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 Interference Solution

On 1/4/2012, an ethanol solution was prepared by Steven Merrill for use as a DataMaster Interference Check solution. The solution was prepared per standard laboratory practice and assigned the lot number 12-49-040 and an expiration date of 1/4/2013.

On 1/5/2012 and 1/6/2012, the solution was analyzed against calibration Cal Version #193 and Cal Version #201. 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 0.040 g/210L simulated breath ethanol concentration and approved for use as a DataMaster Interference Check solution.

Dated at Burlington, Vermont on Monday, January 09, 2012.

Steven Merrill

0.04 Interference Solution 5L
Lot # 12-49-040
Prepared 01/04/2012 by SRM
Exp 01/04/2013

SRM CAL Version 193
SRM/MCS Vials
Analyzed on 01/05/2012

0.0412 srm
0.0398
0.0399
0.0399
0.0400
0.0400
0.0400
0.0401 mcs
0.0413
0.0400
0.0401
0.0402
0.0407
0.0401

Ave. = 0.0402
Std Dev. = 0.0005
Range = 0.0398 - 0.0413

MCS CAL Version 201
SRM/MCS Vials
Analyzed on 01/06/2012

0.0397 srm
0.0399
0.0391
0.0391
0.0404
0.0397
0.0394
0.0390 mcs
0.0391
0.0388
0.0388
0.0388
0.0387
0.0388

Ave. = 0.0392
Std Dev. = 0.0005
Range = 0.0387 - 0.0404

Total Values from Both Runs

Average	Mean
0.0387	0.0387
0.0388	0.0388
0.0388	
0.0388	
0.0388	
0.0390	0.0390
0.0391	0.0391
0.0391	
0.0391	
0.0394	0.0394
0.0397	0.0397
0.0397	
0.0398	0.0398
0.0399	0.0399
0.0399	
0.0399	
0.0400	0.0400
0.0400	
0.0400	
0.0400	
0.0401	0.0401
0.0401	
0.0401	
0.0402	0.0402
0.0404	0.0404
0.0407	0.0407
0.0412	0.0412
0.0413	0.0413

Ave. =	0.0397
Std Dev. =	0.0007
Range =	0.0387 - 0.0413
Mean =	0.0399
Mean Std Dev. =	0.0008
RPD (Mean to Ave.)=	0.50%

Reviewed 1/10/12

Reviewed 1-10-12

DataMaster Interference Solution
Lot # 12-49-040A1 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.01
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A1 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.01
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A1 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.01
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A1 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.01
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A1 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.01
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A2 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.02
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A2 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.02
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A2 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.02
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A2 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.02
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A2 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.02
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A1 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.01
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A1 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.01
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A1 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.01
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A1 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.01
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A1 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.01
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A2 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.02
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A2 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.02
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A2 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.02
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A2 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.02
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A2 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.02
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

DataMaster Interference Solution
Lot # 12-49-040A2 $EtOH_{aq}$ Conc: 0.040
Range: 0.038 - 0.042 $Acetone_{aq}$ Conc: 0.02
Preparation Date: 01/12/2012 Expires: 01/04/2013

OPENED:

Vermont Department of Health Laboratory
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(ph) 802-863-7336; (fax) 802-863-7632

Certificate of Analysis of DataMaster Interference Solution

On 1/12/2012, an interference solution was prepared by Steven Merrill for use as a DataMaster Interference Check solution. The solution was prepared per standard laboratory practice and assigned the lot number 12-49-040A1 and an expiration date of 1/4/2013.

This solution is certified as presenting 0.040 g/210L simulated breath ethanol and 0.01% (vol/vol) acetone concentration and approved for use as a DataMaster Interference Check solution.

Dated at Burlington, Vermont on Monday, January 23, 2012.

Steven Merrill

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 Interference Solution

On 1/12/2012, an interference solution was prepared by Steven Merrill for use as a DataMaster Interference Check solution. The solution was prepared per standard laboratory practice and assigned the lot number 12-49-040A2 and an expiration date of 1/4/2013.

This solution is certified as presenting 0.040 g/210L simulated breath ethanol and 0.02% (vol/vol) acetone concentration and approved for use as a DataMaster Interference Check solution.

Dated at Burlington, Vermont on Monday, January 23, 2012.

Steven Merrill

File Name: C:\Alcohol Data\Sim010512\SimSolution.cal
Version: 193

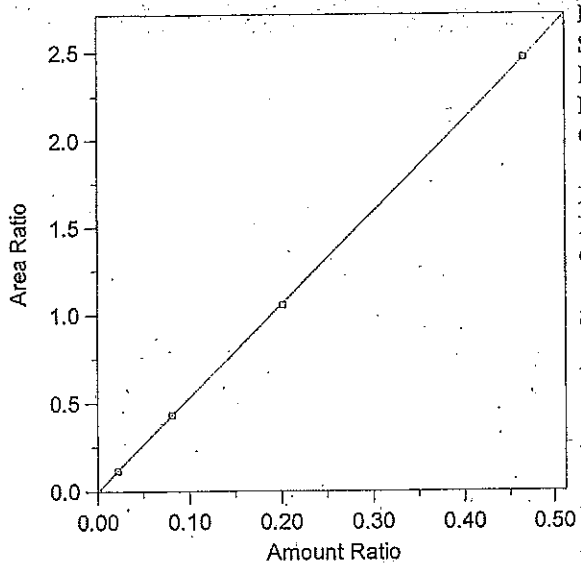
Creator:
Description:
Reason for change:

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: 2.631 minutes
Search window: 0.1 minutes
Internal standard component: 7 (n-Propanol)
No retention time reference component
Group number: 0

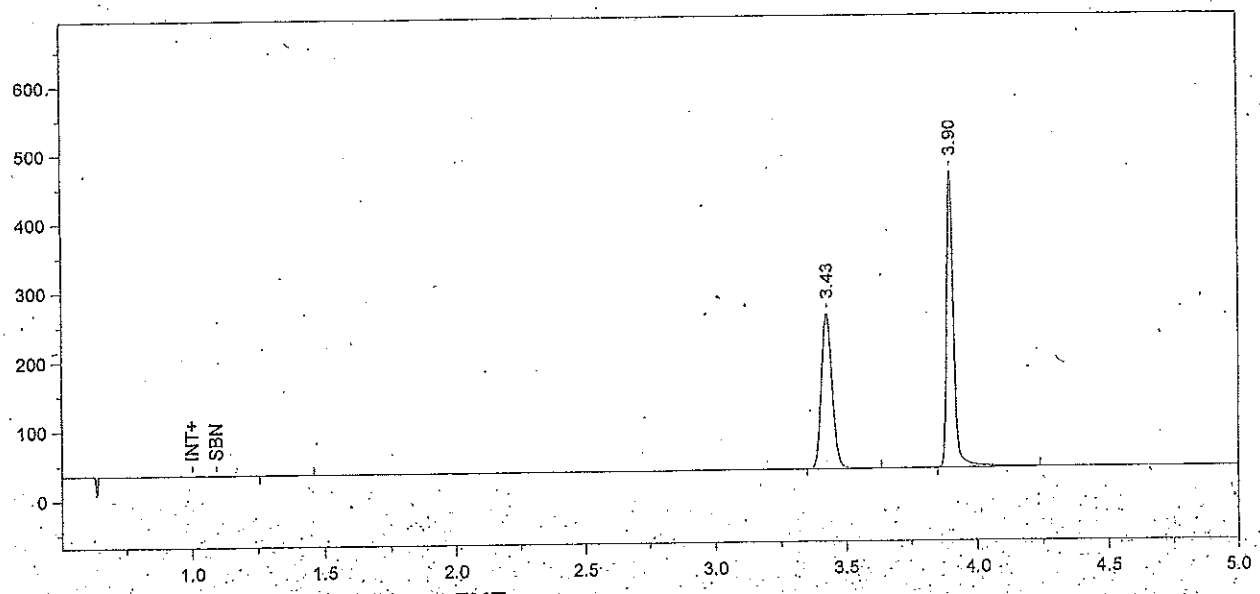
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

Y = 5.284718 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999711
Average error: 0.456%
Average CF: 4.218177
RSD: 55.907%

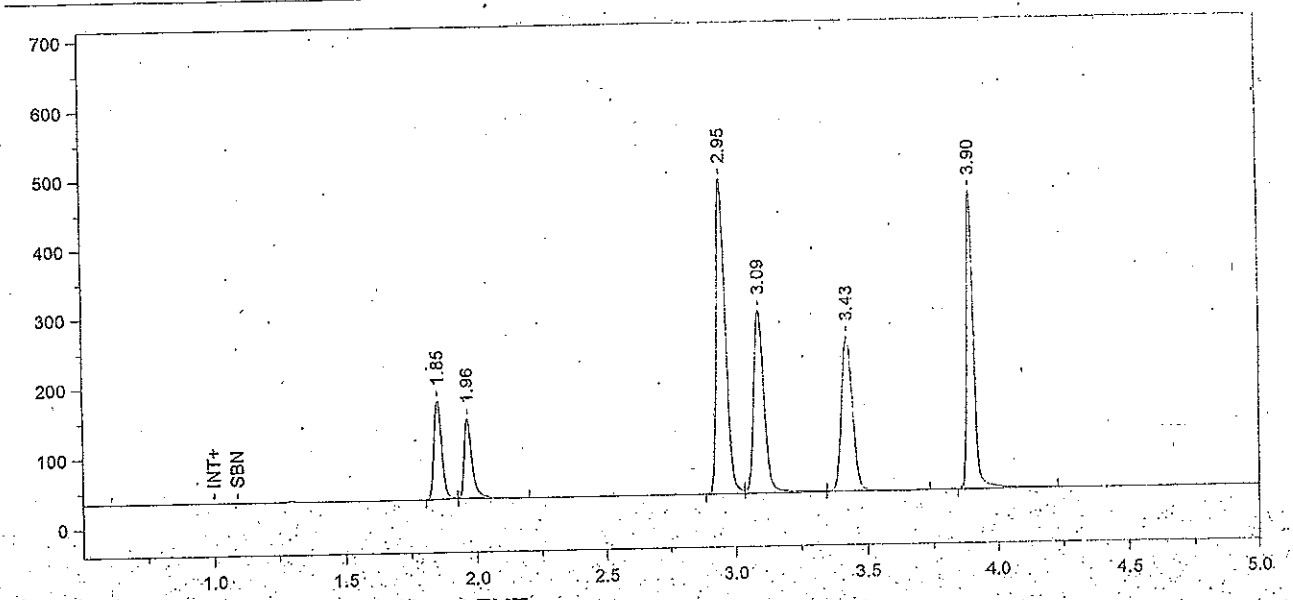
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	0	(0)	--	0.000	0	0	Manual	4/11/2005 10:03:40 AM
2	0.0223	93905.21	4210996	-0.668	0.0223	0.1170617	C:\Alcohol Data\Sim010512\Sim010512.0003.BND	1/5/2012 4:39:47 PM
3	0.0814	341085.4	4190239	0.526	0.0814	0.4324402	C:\Alcohol Data\Sim010512\Sim010512.0004.BND	1/5/2012 4:39:55 PM
4	0.2016	843450.5	4183782	-0.925	0.2016	1.055547	C:\Alcohol Data\Sim010512\Sim010512.0005.BND	1/5/2012 4:40:02 PM
5	0.466	1980197	4249350	0.159	0.466	2.466583	C:\Alcohol Data\Sim010512\Sim010512.0006.BND	1/5/2012 4:40:09 PM



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 1:55:31 PM
Bound File Name = Sim010512.0001.RAW
Sample Name = Blank
Date Taken = 1/5/2012 2:36:25 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

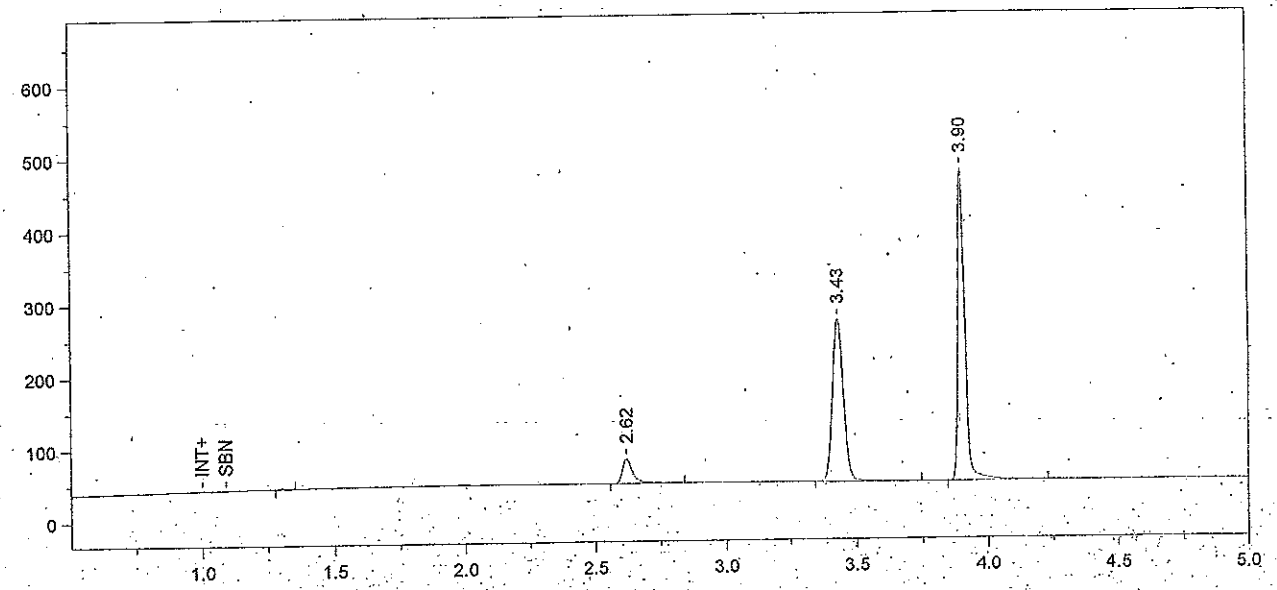
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	3.43	t-Butanol	654588	1.0014	0.8173
3	3.90	n-Propanol	800028	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/5/2012
Today's Time = 4:42:55 PM
Bound File Name = Sim010512.0002.RAW
Sample Name = TMX
Date Taken = 1/5/2012 2:51:19 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	1.85	Acetaldehyde	282335	0.0510	0.0416
2	1.96	Methanol	244267	0.1280	0.1045
3	2.95	Acetone	1126986	0.0600	0.0490
4	3.09	Isopropanol	710338	0.0810	0.0661
5	3.43	t-Butanol	652741	1.0061	0.8212
6	3.90	n-Propanol	794033	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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Today's Time = 2:25:58 PM
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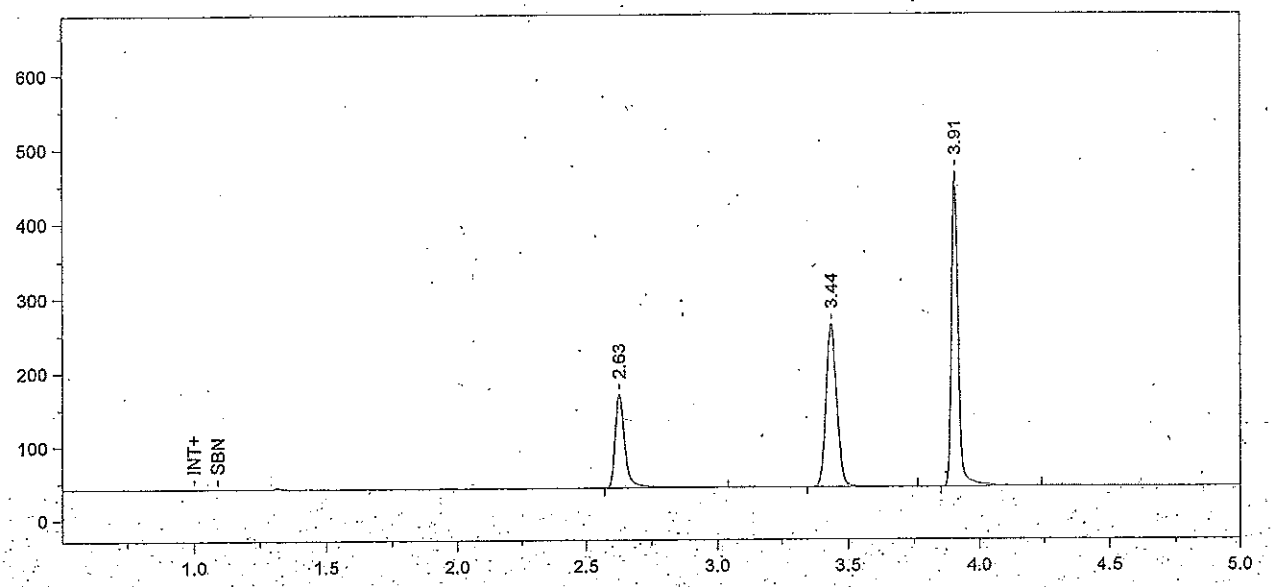
Sample Name = Std A
Date Taken = 1/5/2012 3:06:27 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

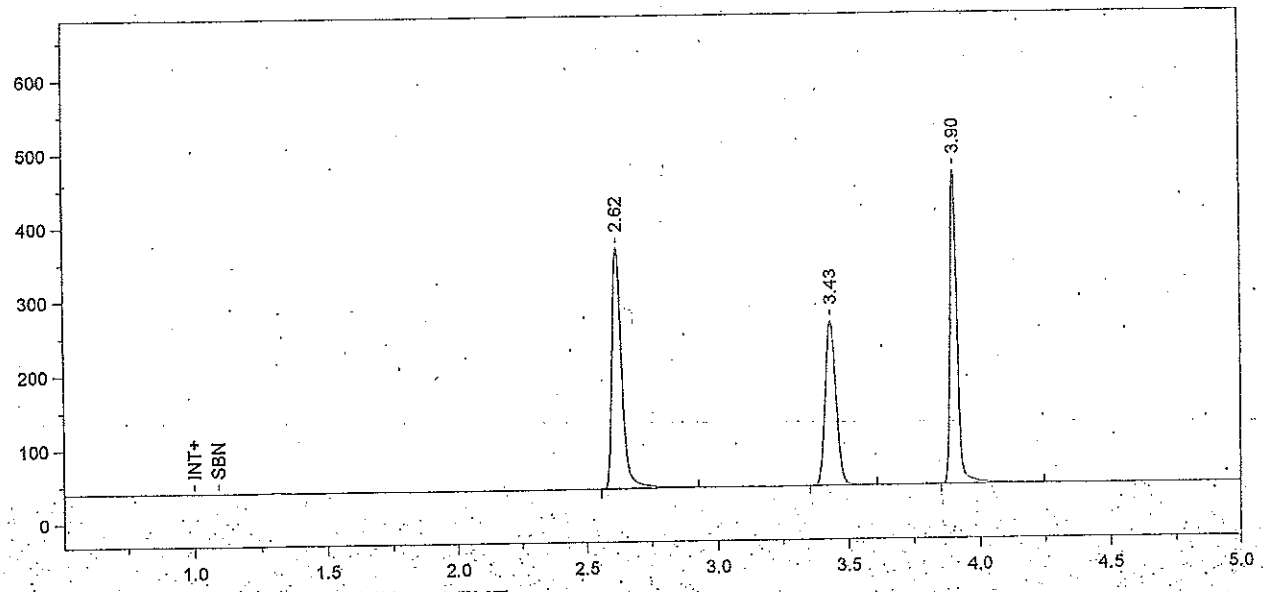
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.62	Ethanol	93905	0.0222	0.0181
3	3.43	t-Butanol	657123	1.0025	0.8183
4	3.90	n-Propanol	802185	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 2:27:11 PM
Bound File Name = Sim010512.0004.RAW
Sample Name = Std B
Date Taken = 1/5/2012 3:21:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

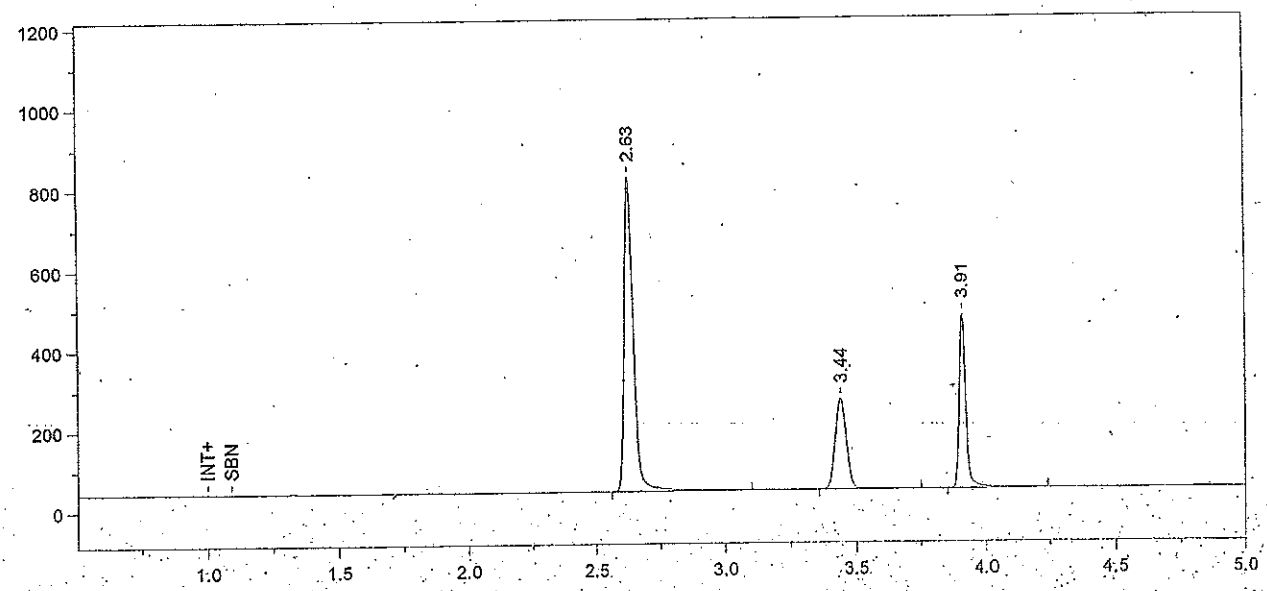
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.63	Ethanol	341085	0.0818	0.0668
2	3.44	t-Butanol	644266	0.9997	0.8159
3	3.91	n-Propanol	788746	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 2:27:55 PM
Bound File Name = Sim010512.0005.RAW
Sample Name = Std C
Date Taken = 1/5/2012 3:36:29 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

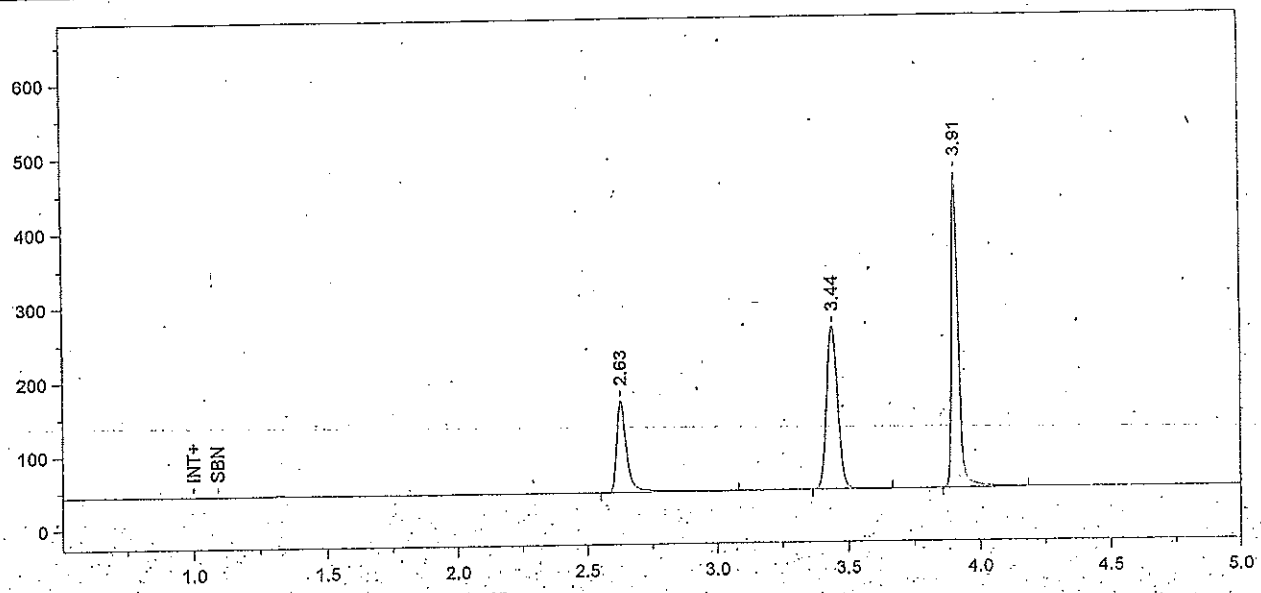
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	843451	0.1997	0.1630
2	3.43	t-Butanol	647694	0.9920	0.8097
3	3.90	n-Propanol	799065	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 2:28:27 PM
Bound File Name = Sim010512.0006.RAW
Sample Name = Std D
Date Taken = 1/5/2012 3:51:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.63	Ethanol	1980197	0.4667	0.3810
2	3.44	t-Butanol	655739	0.9997	0.8159
3	3.91	n-Propanol	802810	1.0000	0.8162



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Today's Time = 2:28:56 PM
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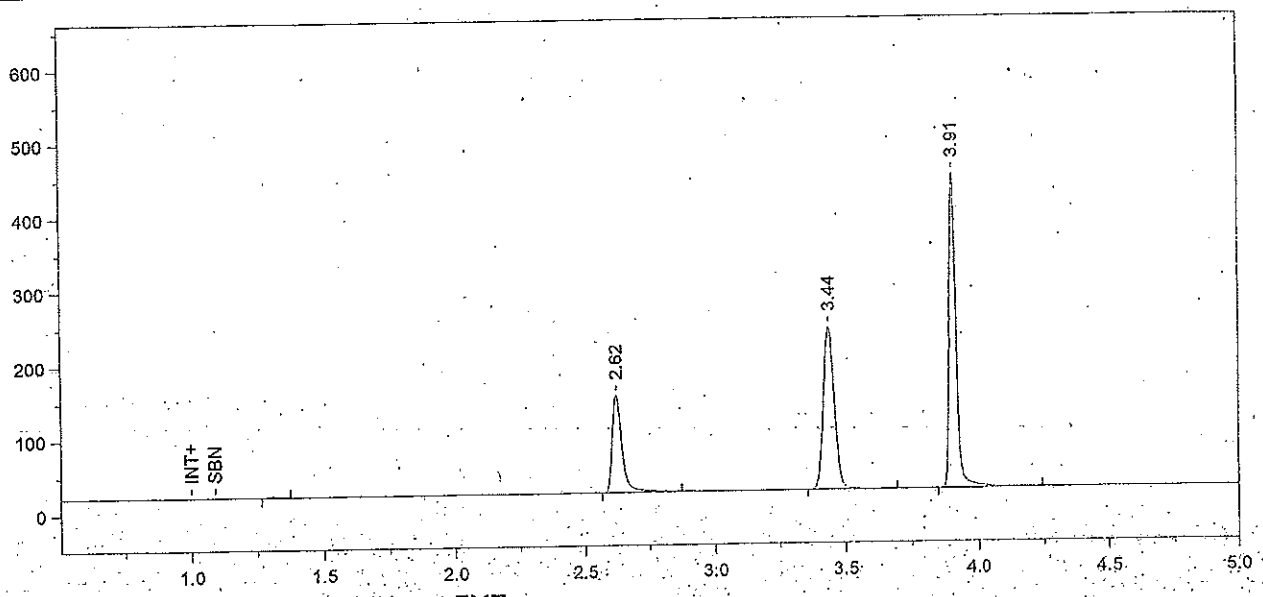
Sample Name = Aq control 0.08
Date Taken = 1/5/2012 4:06:35 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.63	Ethanol	333653	0.0803	0.0656
2	3.44	t-Butanol	641644	0.9993	0.8156
3	3.91	n-Propanol	785858	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

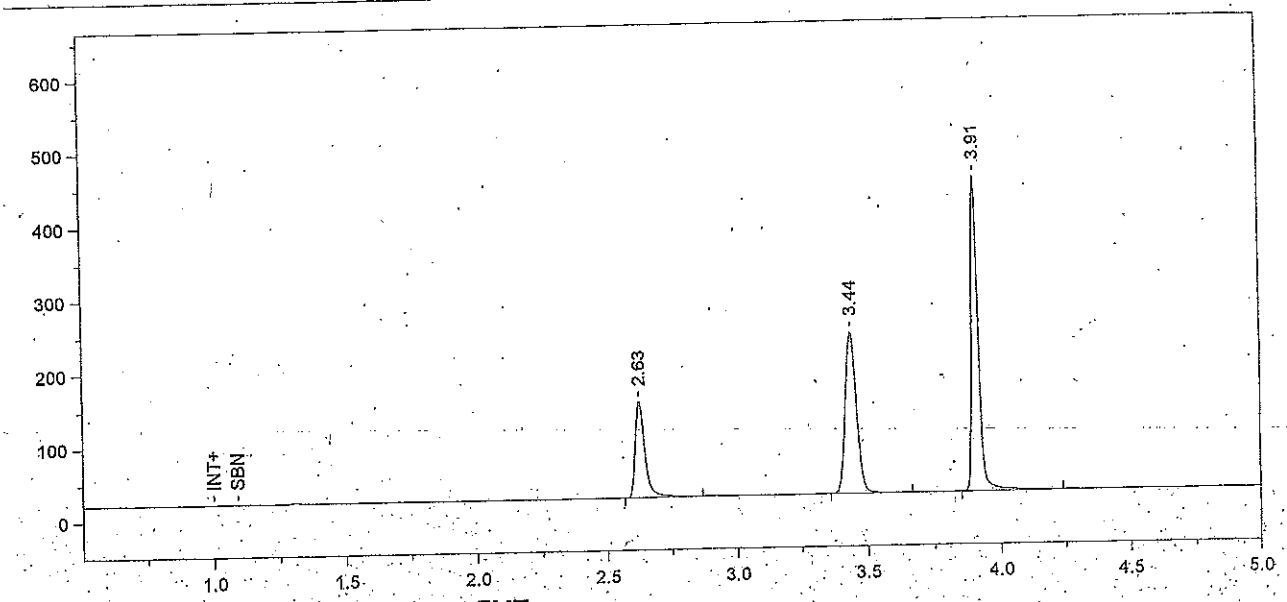
Today's Date = 1/5/2012
Today's Time = 9:01:02 PM

Bound File Name = Sim010512.0022.RAW
Sample Name = CCS B
Date Taken = 1/5/2012 9:00:54 PM
Method file = simsoln.met
Calibration file = SimSolution.cal

VDH Headspace Alcohol

Calibration Version = 193

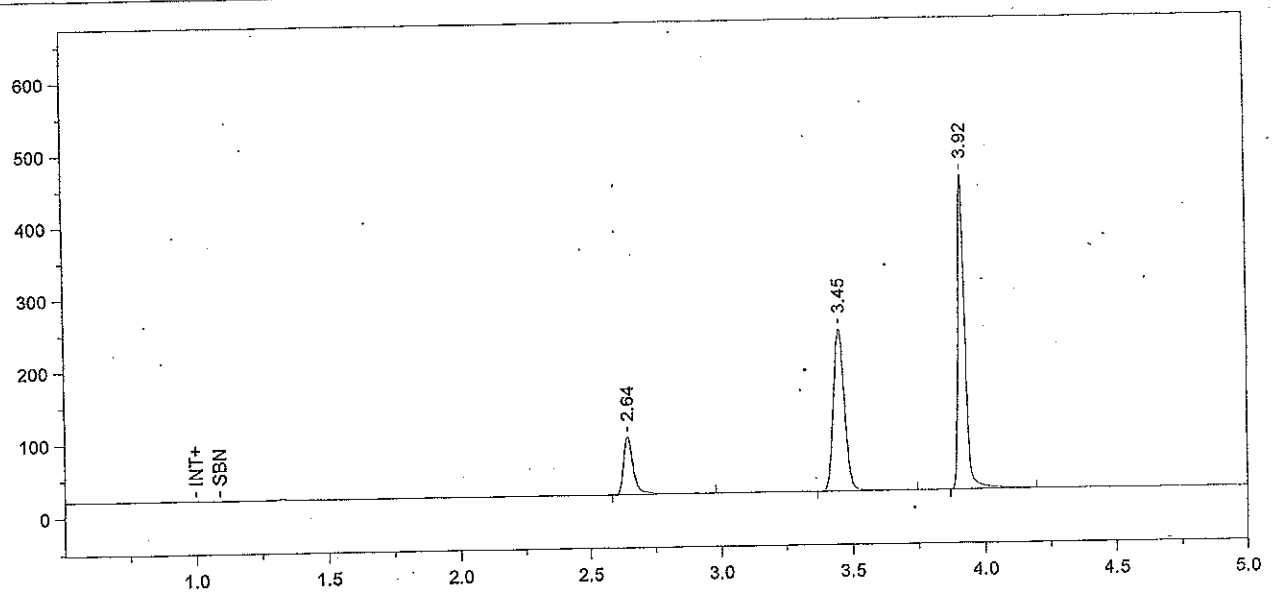
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.62	Ethanol	344994	0.0821	0.0670
3	3.44	t-Butanol	645364	0.9937	0.8111
4	3.91	n-Propanol	794838	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/5/2012
Today's Time = 9:16:01 PM
Bound File Name = Sim010512.0023.RAW
Sample Name = CCS B
Date Taken = 1/5/2012 9:15:54 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

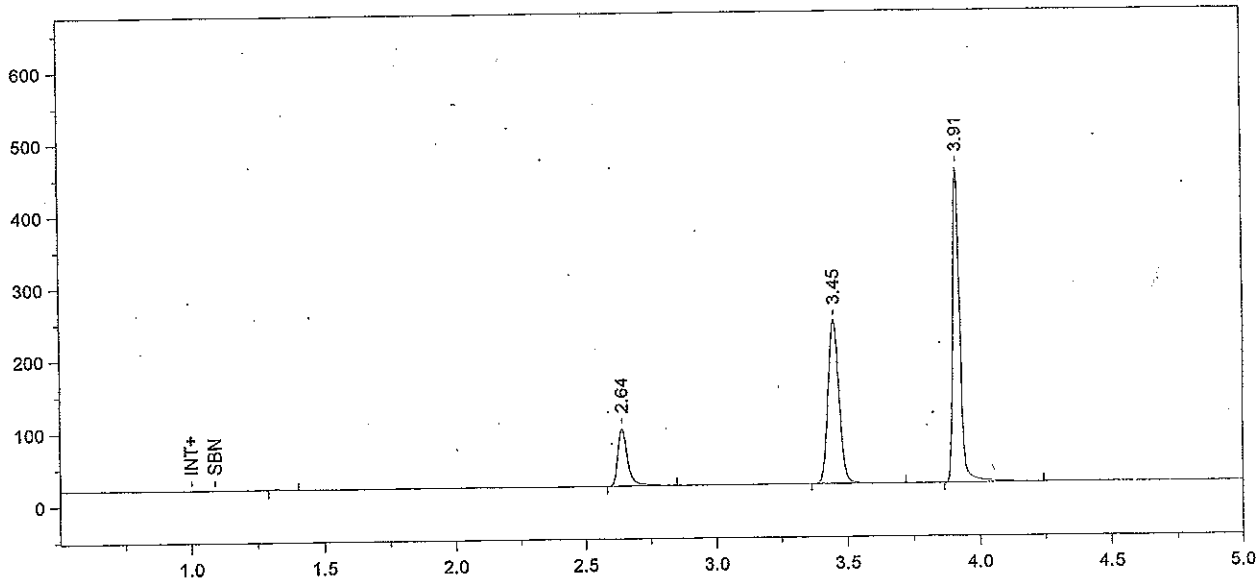
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.63	Ethanol	343566	0.0820	0.0669
2	3.44	t-Butanol	643300	0.9928	0.8103
3	3.91	n-Propanol	793020	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/5/2012
Today's Time = 9:30:58 PM
Bound File Name = Sim010512.0024.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/5/2012 9:30:55 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

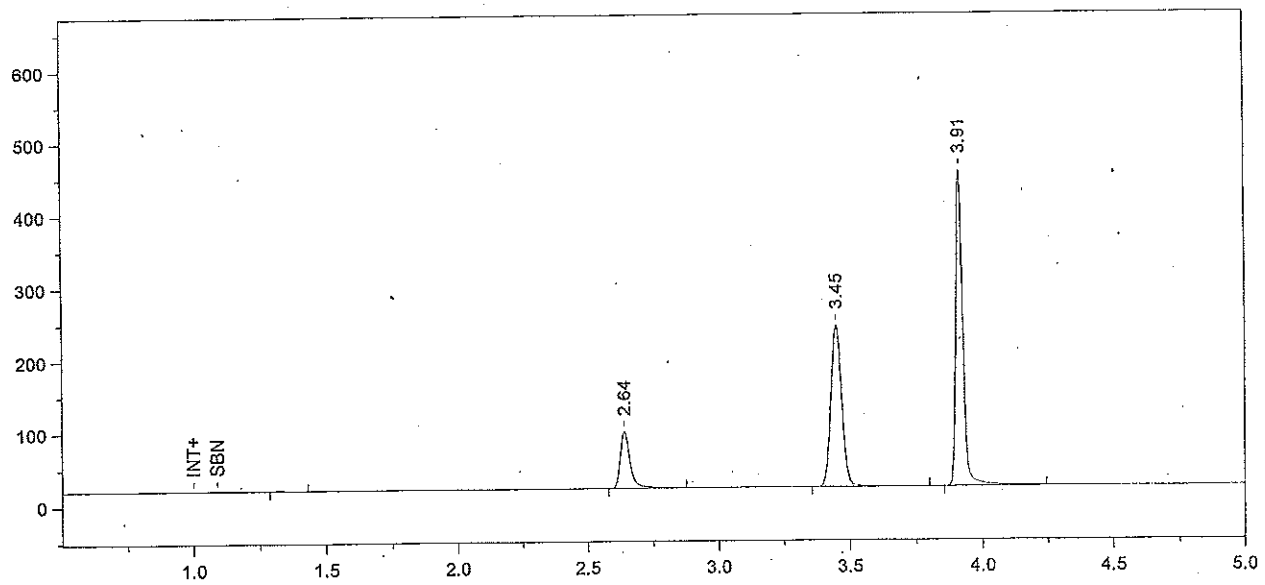
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.64	Ethanol	211947	0.0505	0.0412
2	3.45	t-Butanol	651439	1.0035	0.8191
3	3.92	n-Propanol	794497	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/5/2012
Today's Time = 9:45:57 PM
Bound File Name = Sim010512.0025.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/5/2012 9:45:54 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

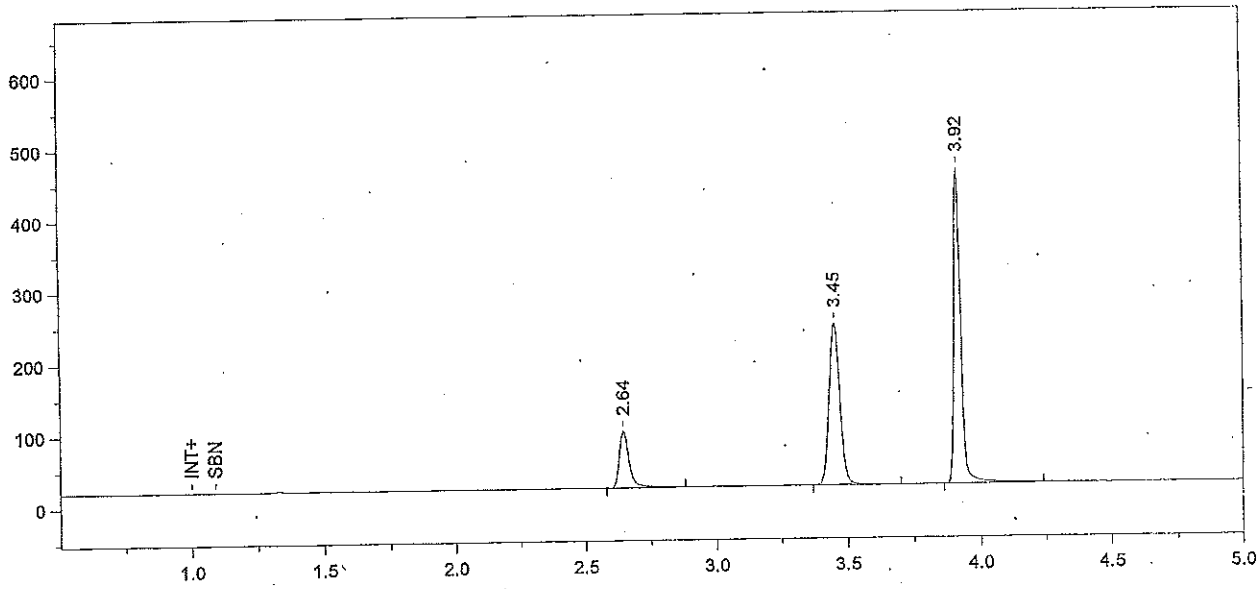
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	207043	0.0487	0.0398
3	3.45	t-Butanol	655783	0.9983	0.8148
4	3.91	n-Propanol	803964	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/5/2012
Today's Time = 10:01:06 PM
Bound File Name = Sim010512.0026.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/5/2012 10:01:02 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

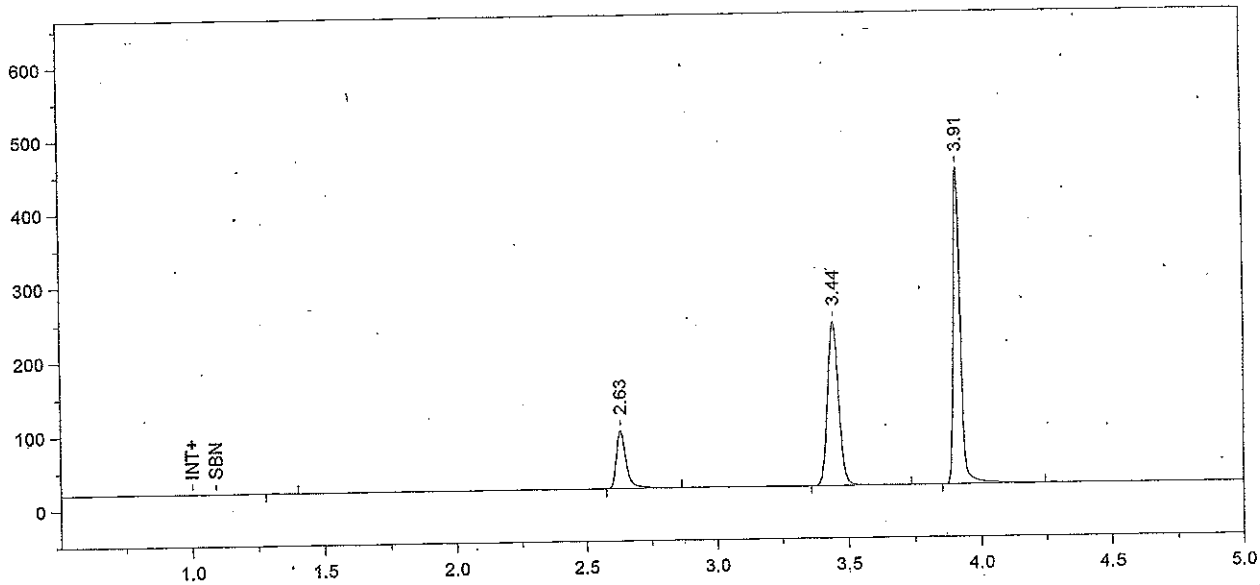
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	206602	0.0489	0.0399
3	3.45	t-Butanol	649494	0.9944	0.8116
4	3.91	n-Propanol	799405	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/5/2012
Today's Time = 10:16:05 PM
Bound File Name = Sim010512.0027.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/5/2012 10:16:03 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

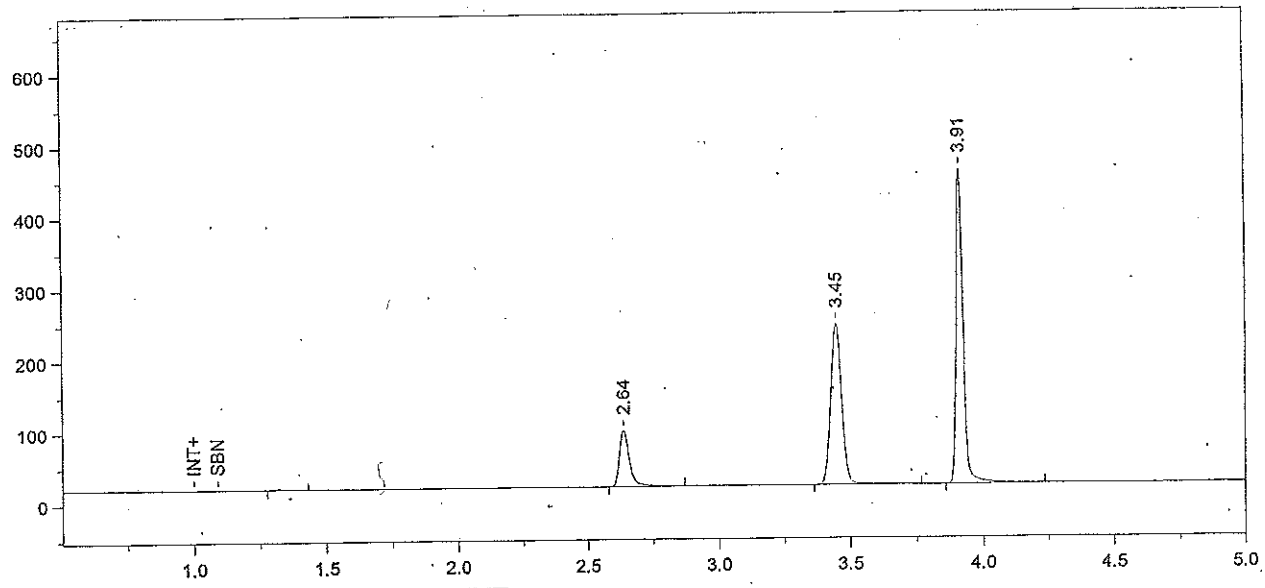
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.64	Ethanol	207255	0.0488	0.0399
2	3.45	t-Butanol	653938	0.9966	0.8134
3	3.92	n-Propanol	803096	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/5/2012
Today's Time = 10:31:02 PM
Bound File Name = Sim010512.0028.RAW
Sample Name = 0.04 Sim Sol - MCS.
Date Taken = 1/5/2012 10:30:58 PM
VDH-Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

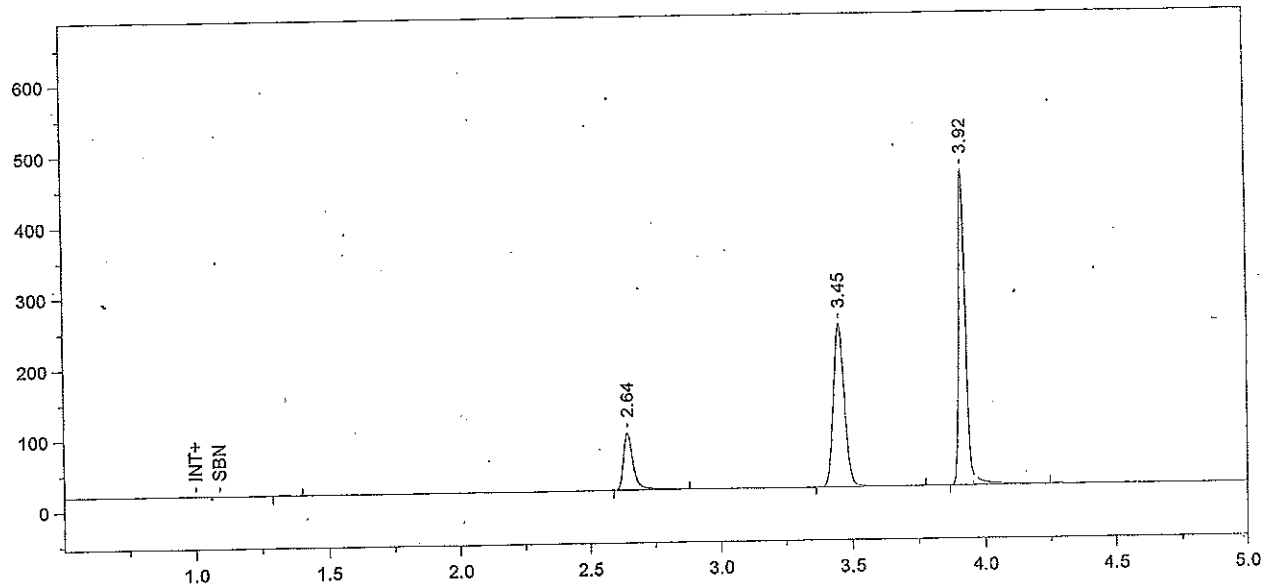
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	206874	0.0490	0.0400
3	3.44	t-Butanol	648925	0.9937	0.8110
4	3.91	n-Propanol	799261	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/5/2012
Today's Time = 10:46:01 PM
Bound File Name = Sim010512.0029.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/5/2012 10:45:59 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

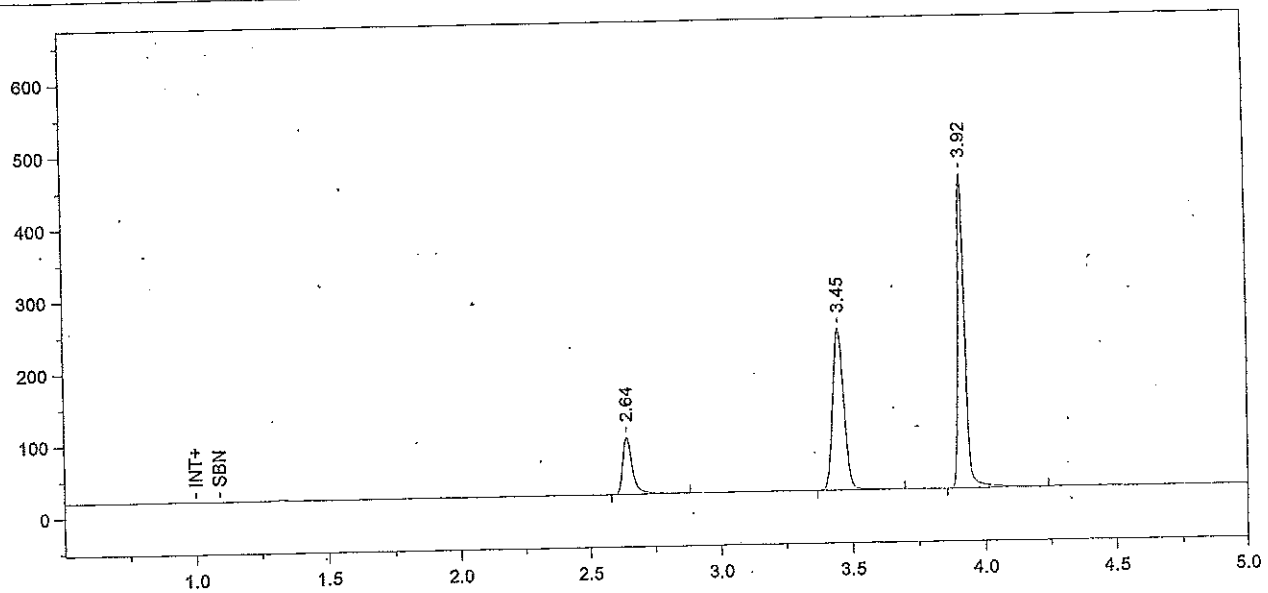
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	208627	0.0490	0.0400
3	3.45	t-Butanol	657025	0.9974	0.8141
4	3.91	n-Propanol	806181	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/5/2012
Today's Time = 11:01:06 PM
Bound File Name = Sim010512.0030.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/5/2012 11:01:00 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

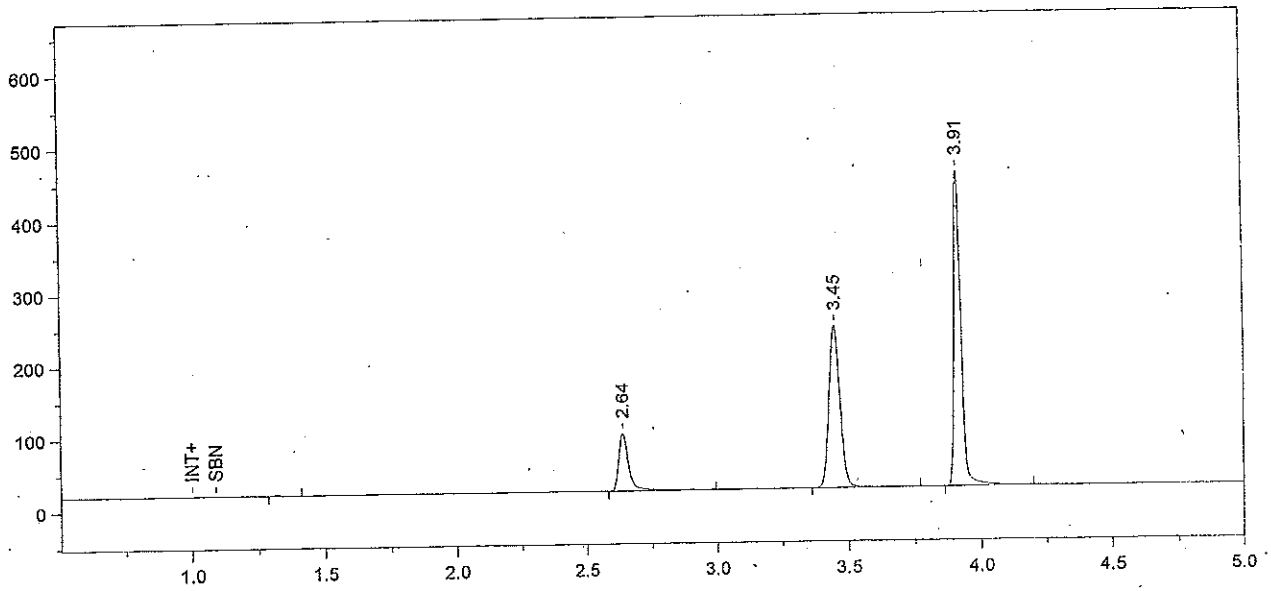
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	211931	0.0490	0.0400
3	3.45	t-Butanol	667382	0.9978	0.8144
4	3.92	n-Propanol	818618	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/5/2012
Today's Time = 11:16:03 PM
Bound File Name = Sim010512.0031.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/5/2012 11:16:01 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

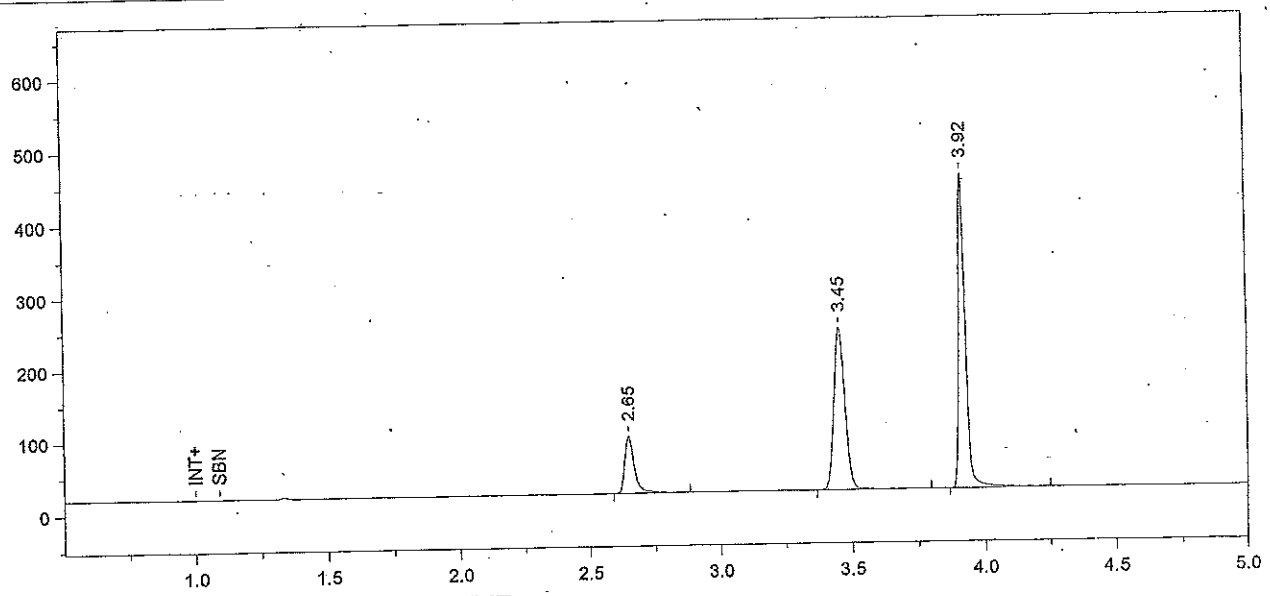
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.64	Ethanol	209578	0.0492	0.0401
2	3.45	t-Butanol	653336	0.9917	0.8094
3	3.92	n-Propanol	806322	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/5/2012
Today's Time = 11:31:08 PM
Bound File Name = Sim010512.0032.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/5/2012 11:31:04 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

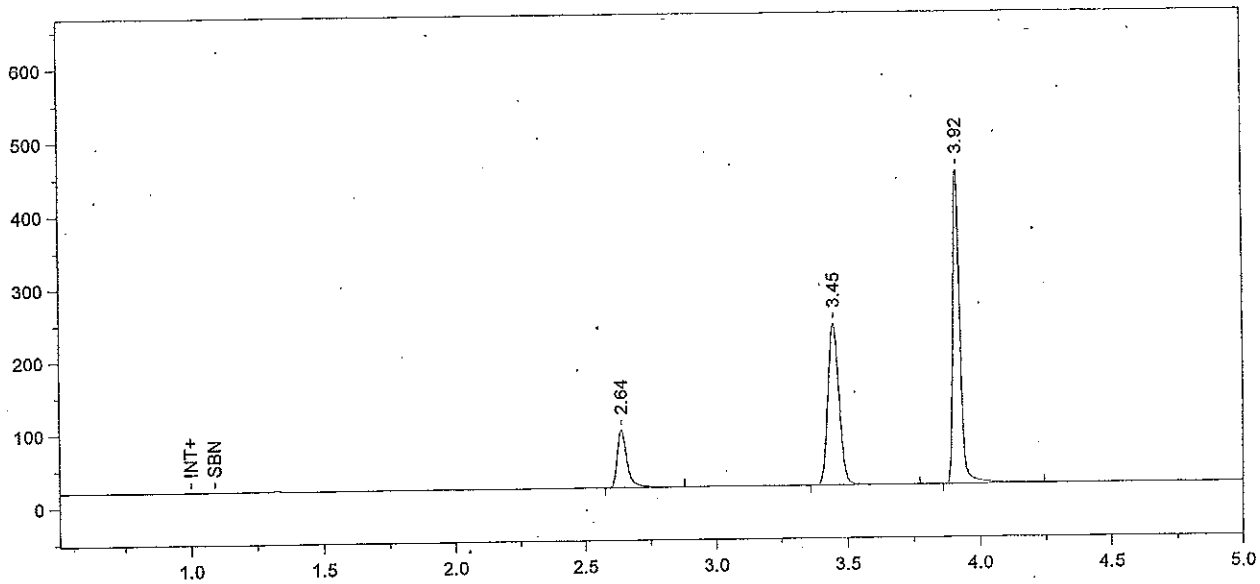
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	214898	0.0505	0.0413
3	3.45	t-Butanol	653283	0.9939	0.8112
4	3.91	n-Propanol	804460	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/5/2012
Today's Time = 11:46:07 PM
Bound File Name = Sim010512.0033.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/5/2012 11:46:05 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

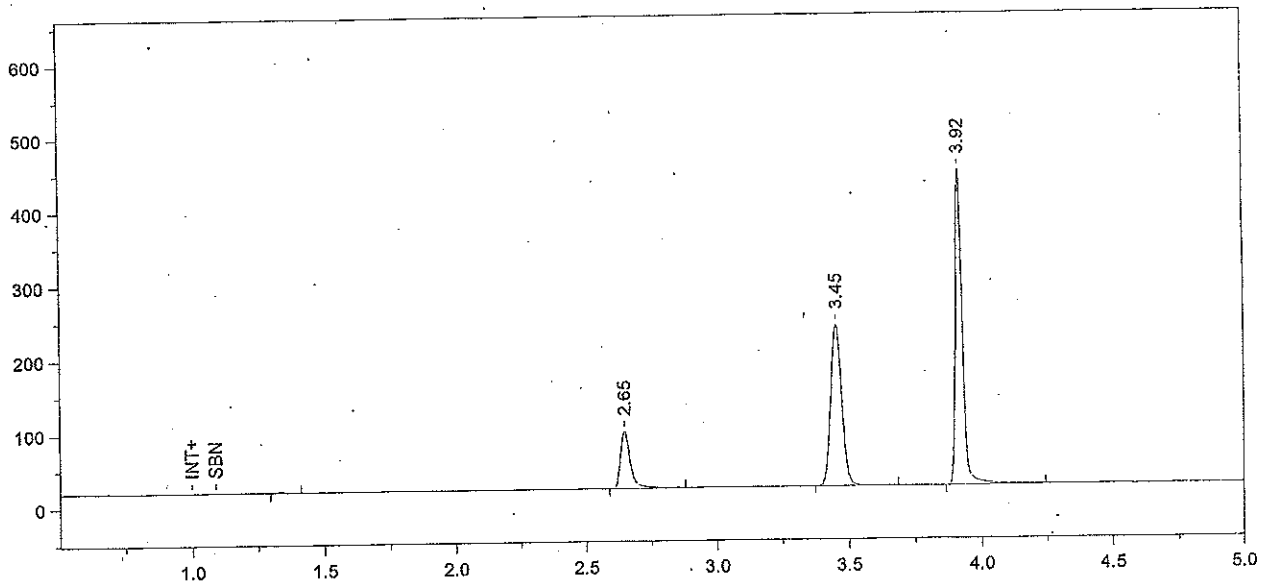
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.65	Ethanol	207102	0.0490	0.0400
2	3.45	t-Butanol	650952	0.9959	0.8129
3	3.92	n-Propanol	799929	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 12:01:10 AM
Bound File Name = Sim010512.0034.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/6/2012 12:01:06 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

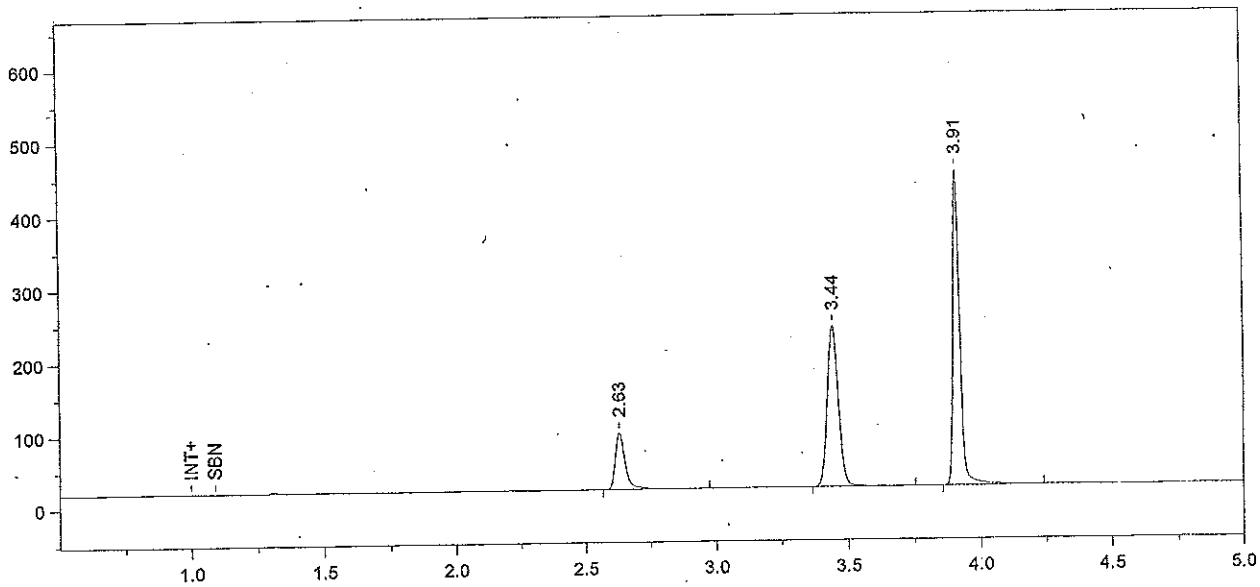
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.64	Ethanol	207655	0.0491	0.0401
2	3.45	t-Butanol	650481	0.9948	0.8120
3	3.92	n-Propanol	800267	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 12:16:15 AM
Bound File Name = Sim010512.0035.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/6/2012 12:16:07 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

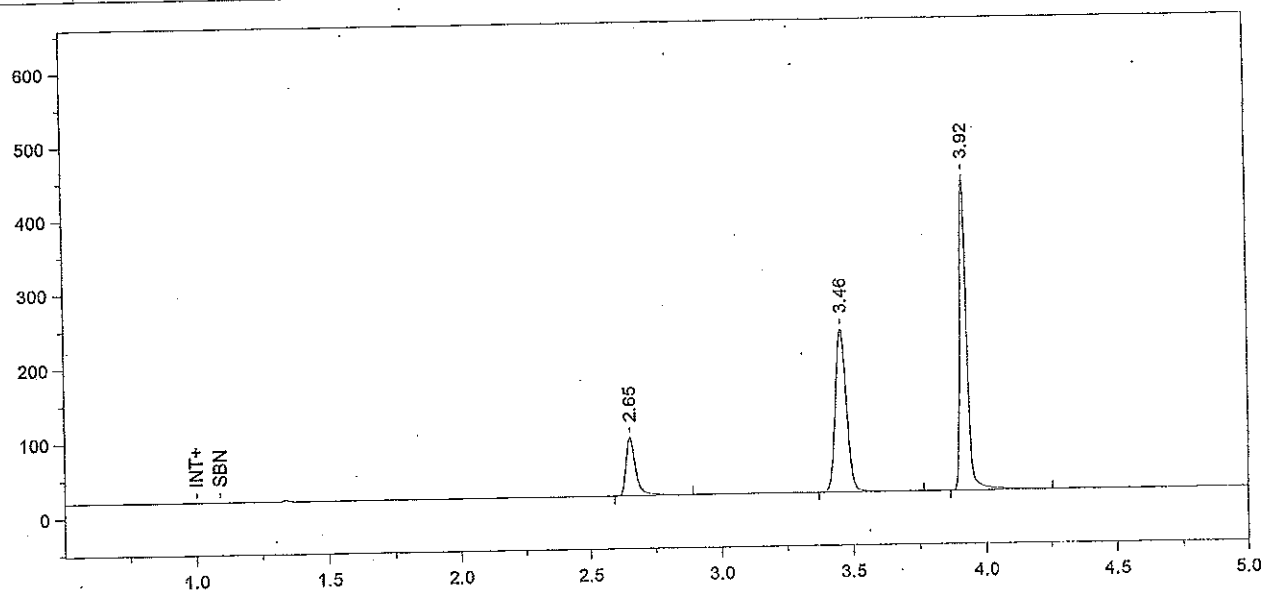
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	204862	0.0493	0.0402
3	3.45	t-Butanol	635546	0.9886	0.8069
4	3.92	n-Propanol	786798	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 12:31:15 AM
Bound File Name = Sim010512.0036.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/6/2012 12:31:08 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

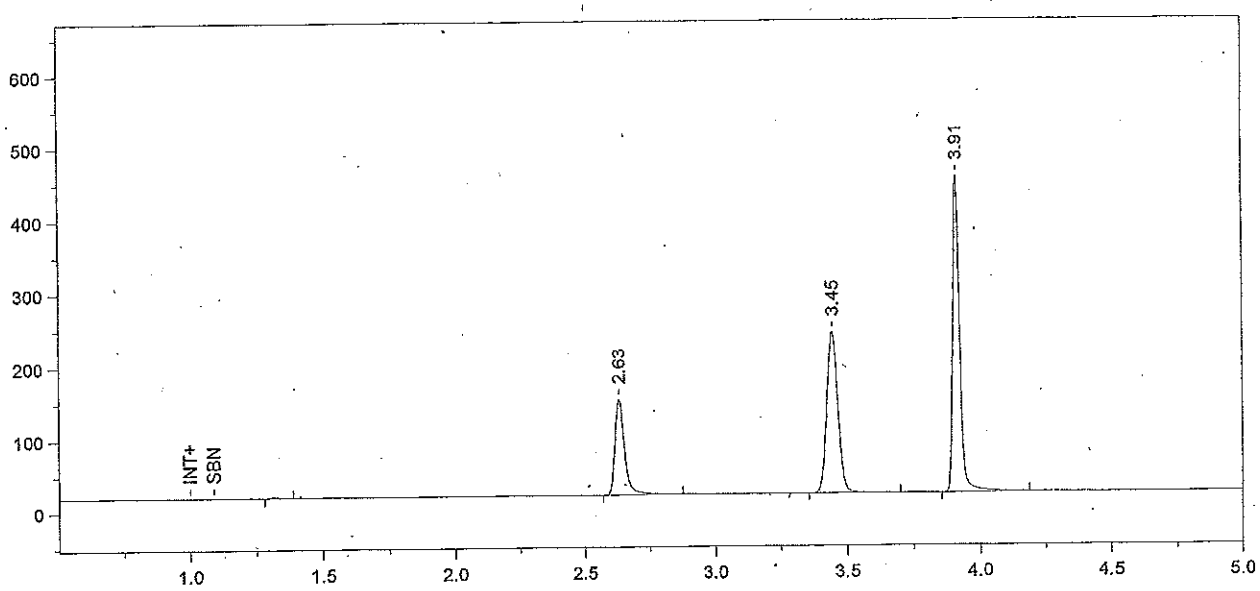
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.63	Ethanol	209090	0.0499	0.0407
2	3.44	t-Butanol	644981	0.9951	0.8122
3	3.91	n-Propanol	793280	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 12:46:16 AM
Bound File Name = Sim010512.0037.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/6/2012 12:46:08 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

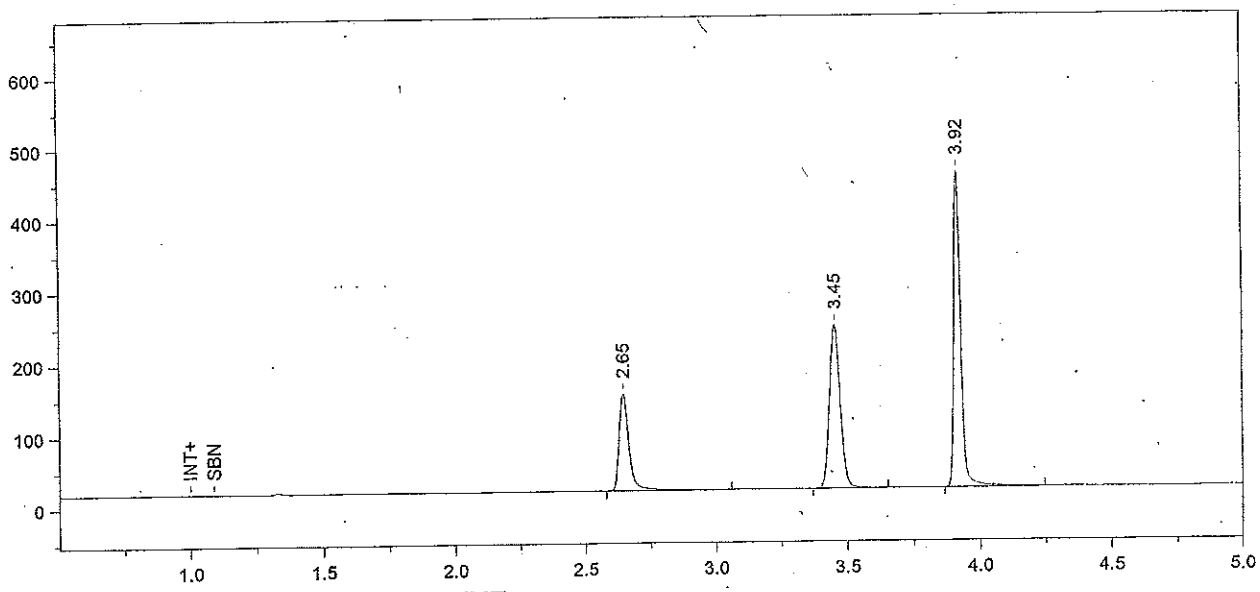
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.65	Ethanol	204324	0.0492	0.0401
2	3.46	t-Butanol	637502	0.9921	0.8097
3	3.92	n-Propanol	786444	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 1:01:23 AM
Bound File Name = Sim010512.0038.RAW
Sample Name = CCS B
Date Taken = 1/6/2012 1:01:15 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	345014	0.0819	0.0669
3	3.45	t-Butanol	649589	0.9978	0.8144
4	3.91	n-Propanol	796793	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 1:16:20 AM
Bound File Name = Sim010512.0039.RAW
Sample Name = CCS B
Date Taken = 1/6/2012 1:16:16 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 193

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.65	Ethanol	356846	0.0835	0.0681
2	3.45	t-Butanol	656939	0.9941	0.8114
3	3.92	n-Propanol	808744	1.0000	0.8162

File Name: C:\Methods\SimSolution.cal
Version: 201

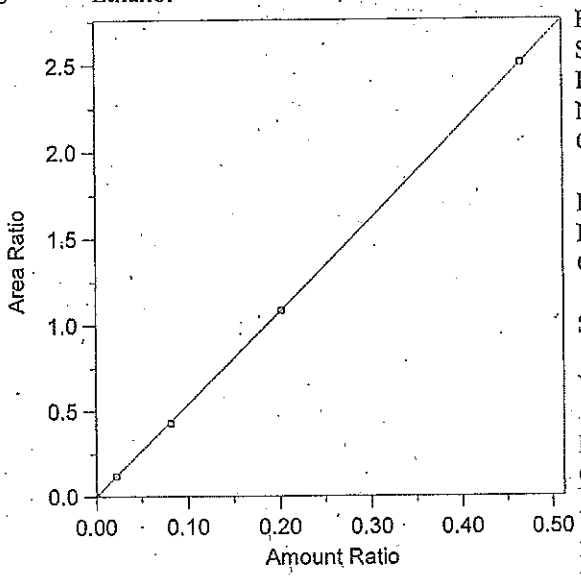
Creator:
Description:
Reason for change:

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: 2.638 minutes
Search window: 0.1 minutes
Internal standard component: 7 (n-Propanol)
No retention time reference component
Group number: 0

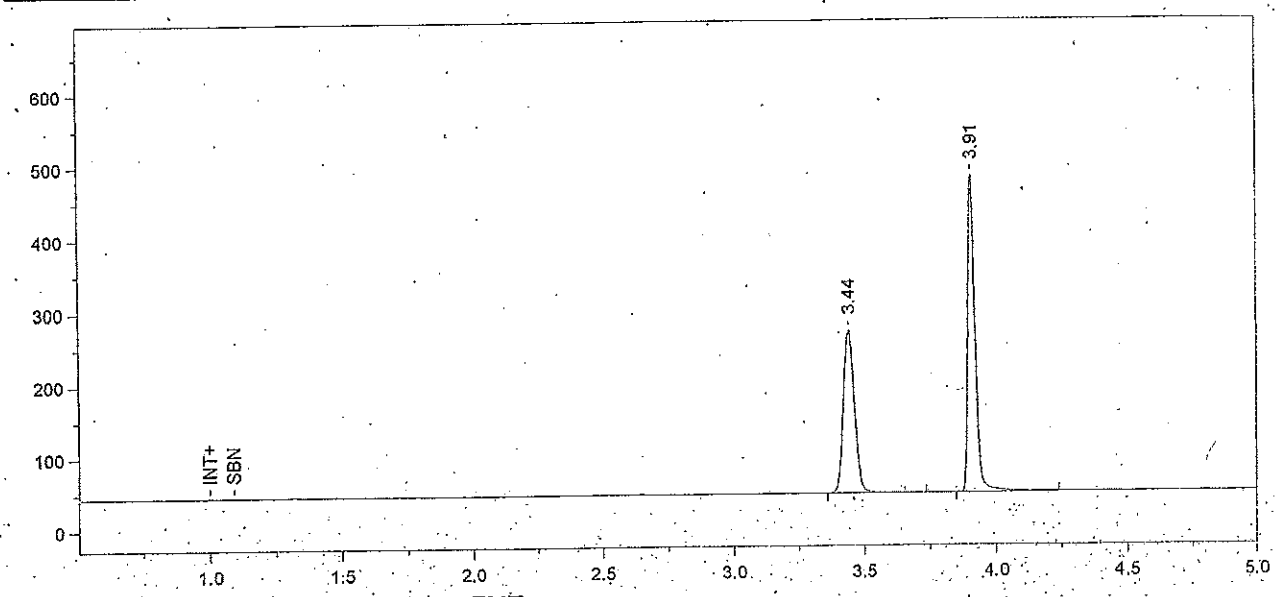
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

Y = 5.381074 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999782
Average error: 0.719%
Average CF: 4.269456
RSD: 55.914%

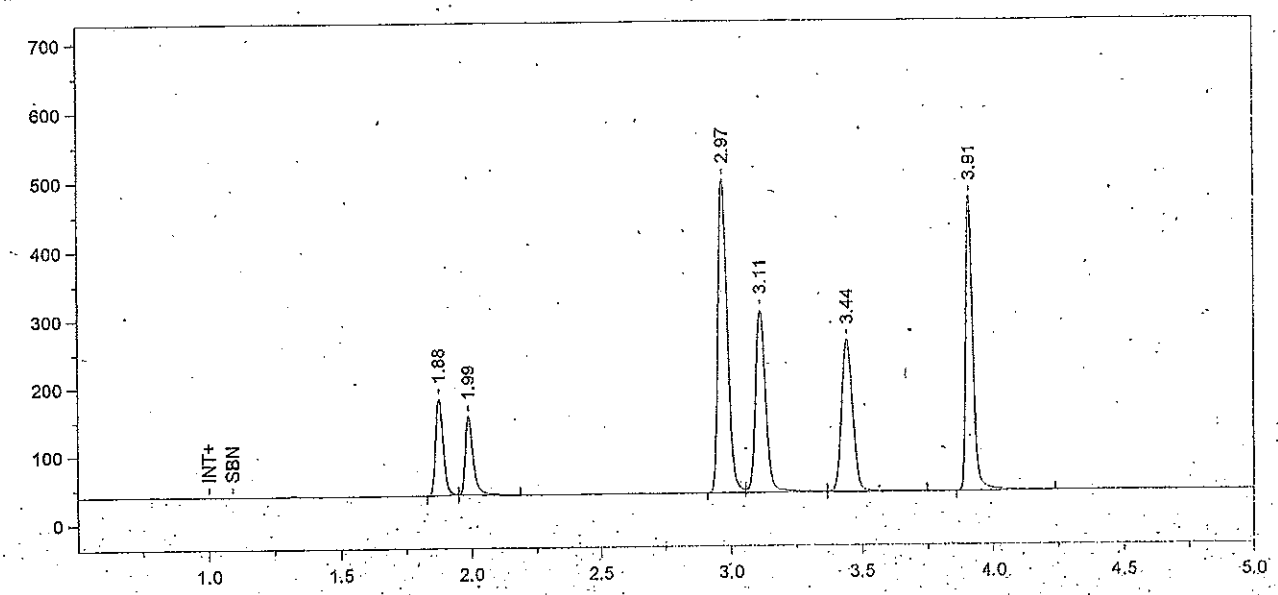
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	0	(0)	--	0.000	0	0	Manual	4/11/2005 10:03:40 AM
2	0.0223	93900.02	4210764	-1.307	0.0223	0.1184295	C:\Alcohol Data\Sim010612\Sim010612.0003.BND	1/6/2012 9:33:38 AM
3	0.0814	341422.9	4194385	-2.134	0.0814	0.4286709	C:\Alcohol Data\Sim010612\Sim010612.0004.BND	1/6/2012 9:33:47 AM
4	0.2016	863822.9	4284836	0.103	0.2016	1.085941	C:\Alcohol Data\Sim010612\Sim010612.0005.BND	1/6/2012 9:33:55 AM
5	0.466	1996280	4283863	0.049	0.466	2.508806	C:\Alcohol Data\Sim010612\Sim010612.0006.BND	1/6/2012 9:34:46 AM



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 9:36:50 AM
Bound File Name = Sim010612.0001.RAW
Sample Name = Blank
Date Taken = 1/6/2012 8:06:14 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

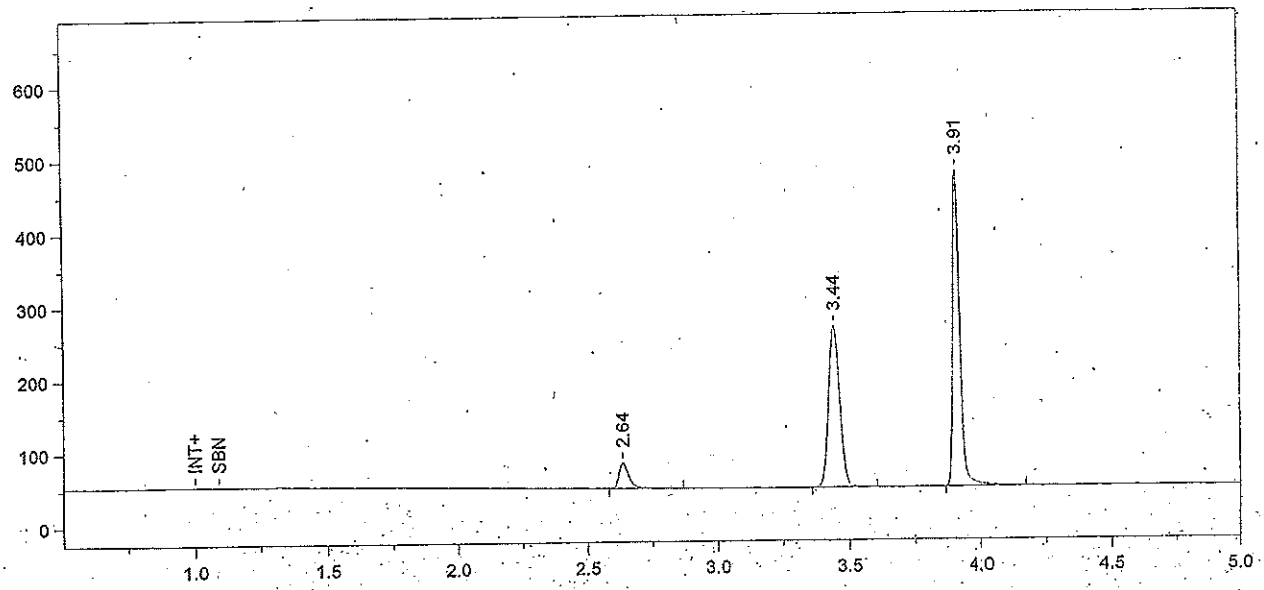
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	3.44	t-Butanol	653161	1.0012	0.8172
2	3.91	n-Propanol	802053	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 9:36:54 AM
Bound File Name = Sim010612.0002.RAW
Sample Name = TMX
Date Taken = 1/6/2012 8:21:09 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

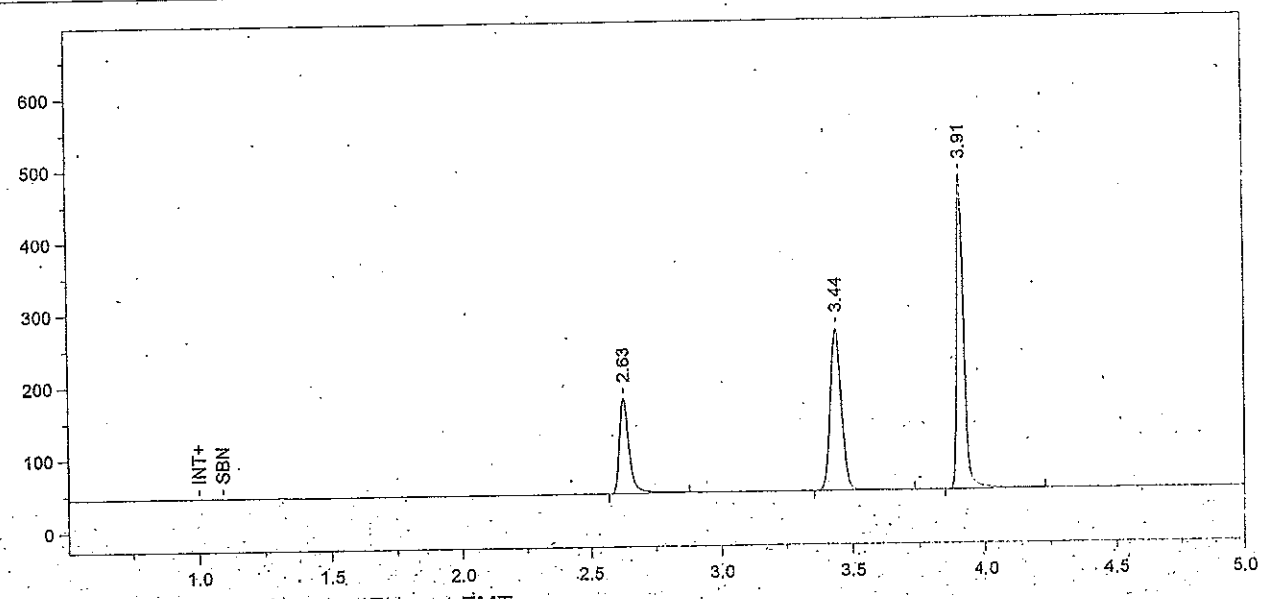
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	1.88	Acetaldehyde	288716	0.0510	0.0416
2	1.99	Methanol	245702	0.1280	0.1045
3	2.97	Acetone	1130862	0.0600	0.0490
4	3.11	Isopropanol	718790	0.0810	0.0661
5	3.44	t-Butanol	654256	1.0035	0.8190
6	3.91	n-Propanol	801592	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 9:36:57 AM
Bound File Name = Sim010612.0003.RAW
Sample Name = Std A
Date Taken = 1/6/2012 8:36:16 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

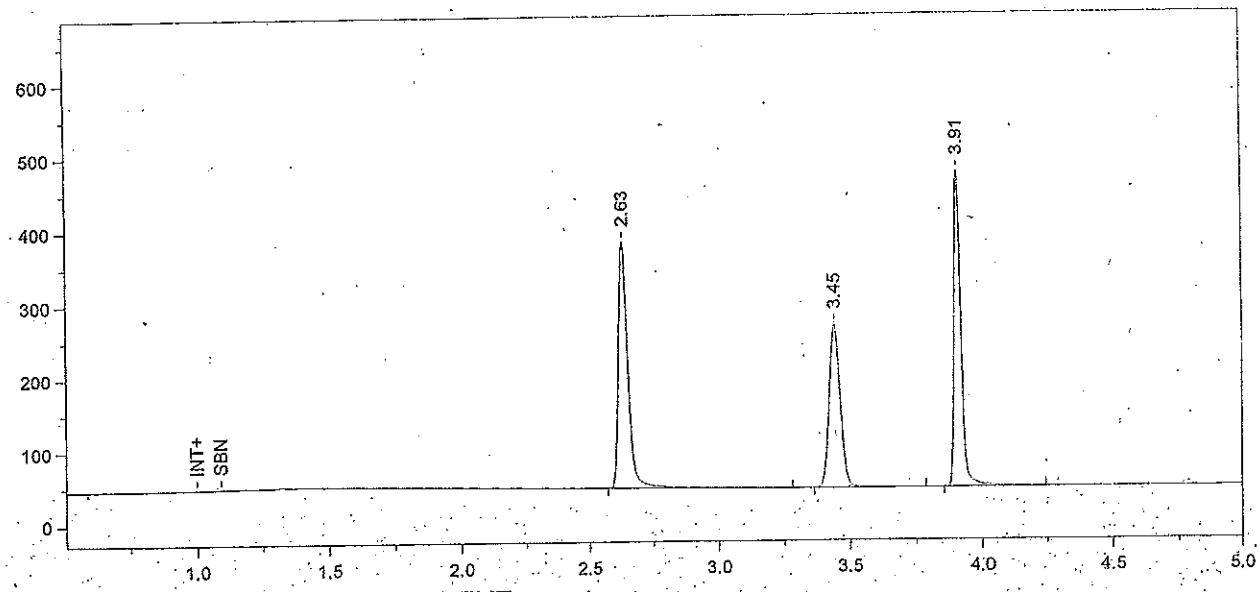
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.64	Ethanol	93900	0.0220	0.0180
2	3.44	t-Butanol	642109	0.9957	0.8127
3	3.91	n-Propanol	792877	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 9:37:01 AM
Bound File Name = Sim010612.0004.RAW
Sample Name = Std B
Date Taken = 1/6/2012 8:51:18 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

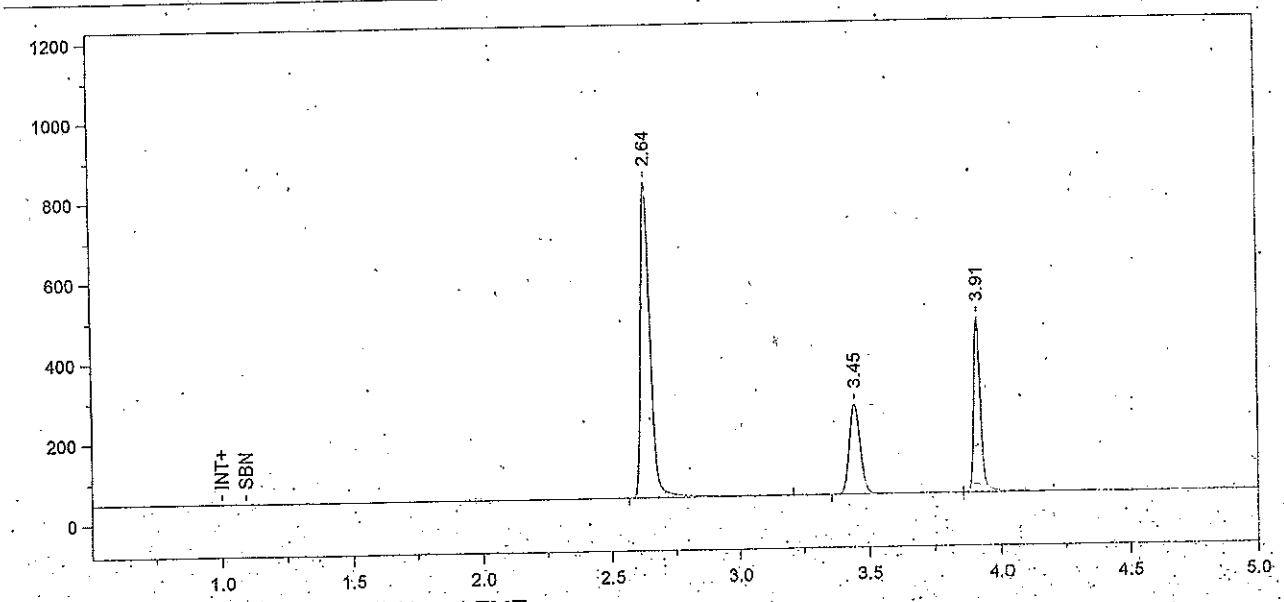
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.63	Ethanol	341423	0.0797	0.0650
2	3.44	t-Butanol	647241	0.9991	0.8155
3	3.91	n-Propanol	796469	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 9:37:05 AM
Bound File Name = Sim010612.0005.RAW
Sample Name = Std C
Date Taken = 1/6/2012 9:06:19 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

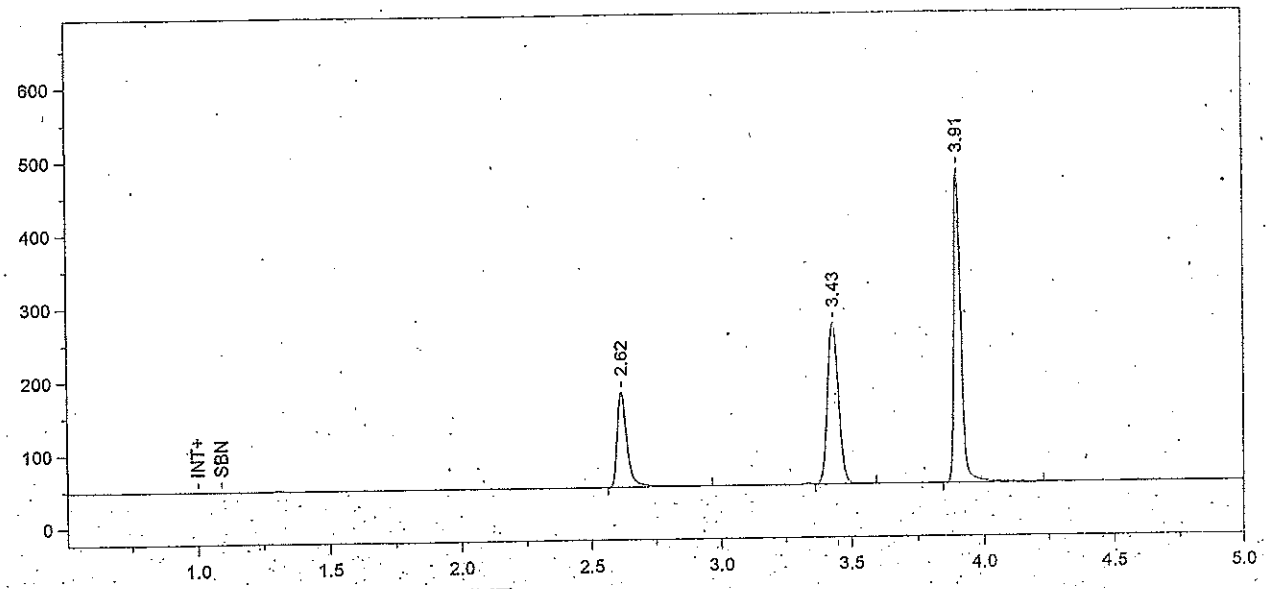
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.63	Ethanol	863823	0.2018	0.1647
2	3.45	t-Butanol	646120	0.9986	0.8151
3	3.91	n-Propanol	795460	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 9:37:10 AM
Bound File Name = Sim010612.0006.RAW
Sample Name = Std D
Date Taken = 1/6/2012 9:21:18 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

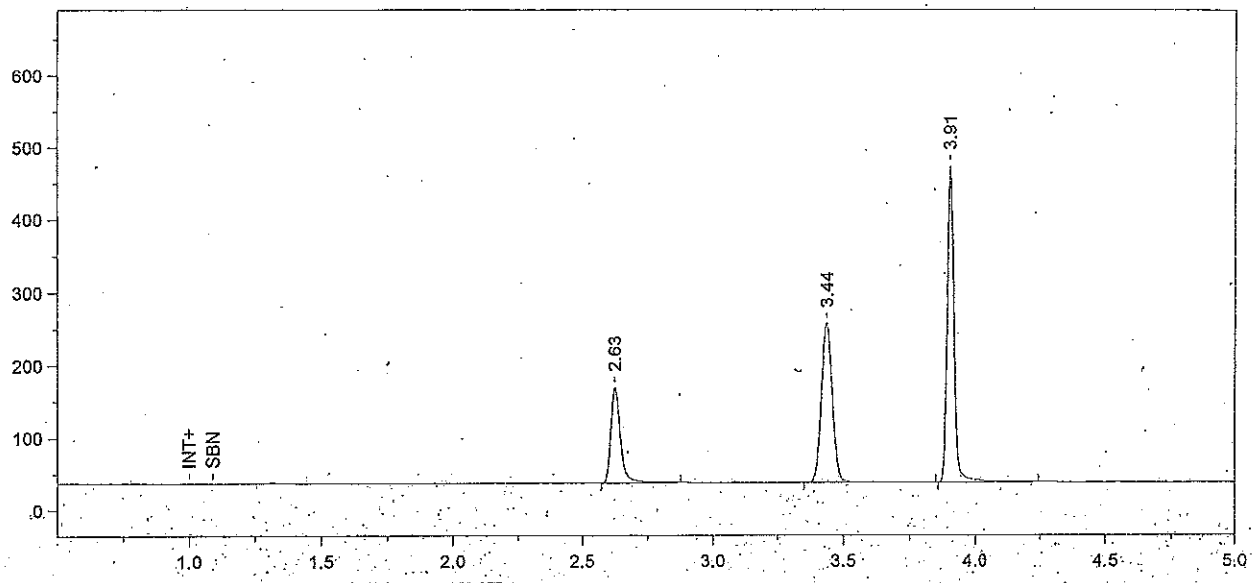
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.64	Ethanol	1996280	0.4662	0.3805
2	3.45	t-Butanol	649230	1.0031	0.8188
3	3.91	n-Propanol	795709	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 9:37:14 AM
Bound File Name = Sim010612.0007.RAW
Sample Name = Aq control 0.08
Date Taken = 1/6/2012 9:28:57 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

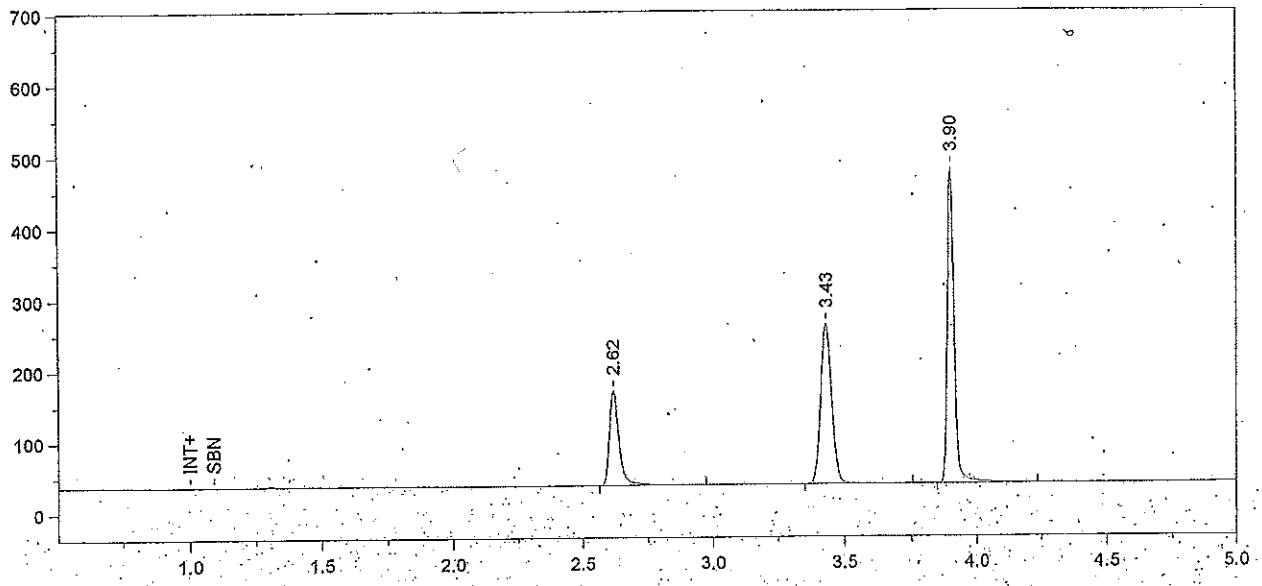
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	344066	0.0801	0.0654
2	3.43	t-Butanol	639218	0.9845	0.8035
3	3.91	n-Propanol	798283	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 1:21:43 PM
Bound File Name = Sim010612.0022.RAW
Sample Name = CCS B
Date Taken = 1/6/2012 1:21:38 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

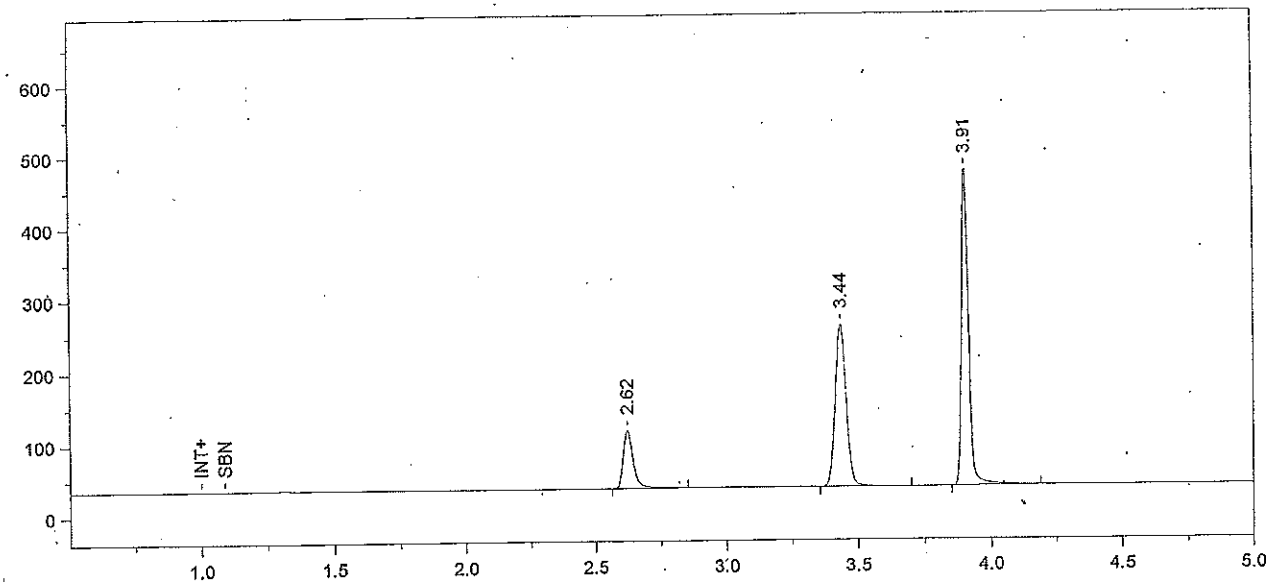
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.63	Ethanol	344030	0.0805	0.0657
2	3.44	t-Butanol	643673	0.9960	0.8130
3	3.91	n-Propanol	794515	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 1:36:42 PM
Bound File Name = Sim010612.0023.RAW
Sample Name = CCS B
Date Taken = 1/6/2012 1:36:40 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

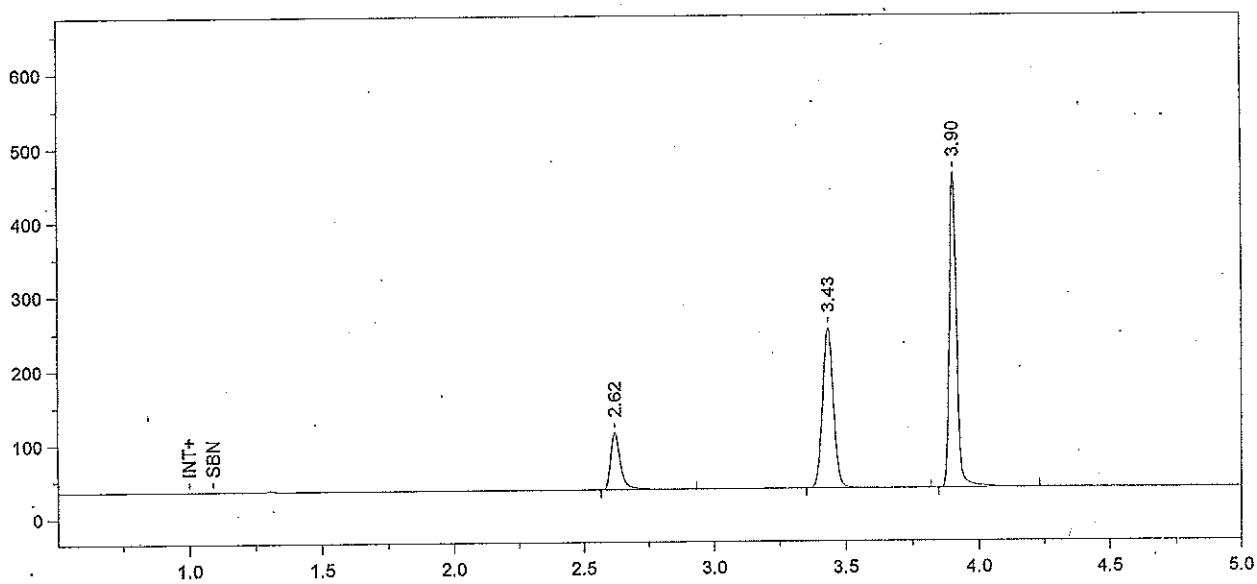
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	351710	0.0808	0.0659
2	3.43	t-Butanol	657447	0.9988	0.8152
3	3.90	n-Propanol	809289	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 2:30:24 PM
Bound File Name = Sim010612.0024.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/6/2012 2:30:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

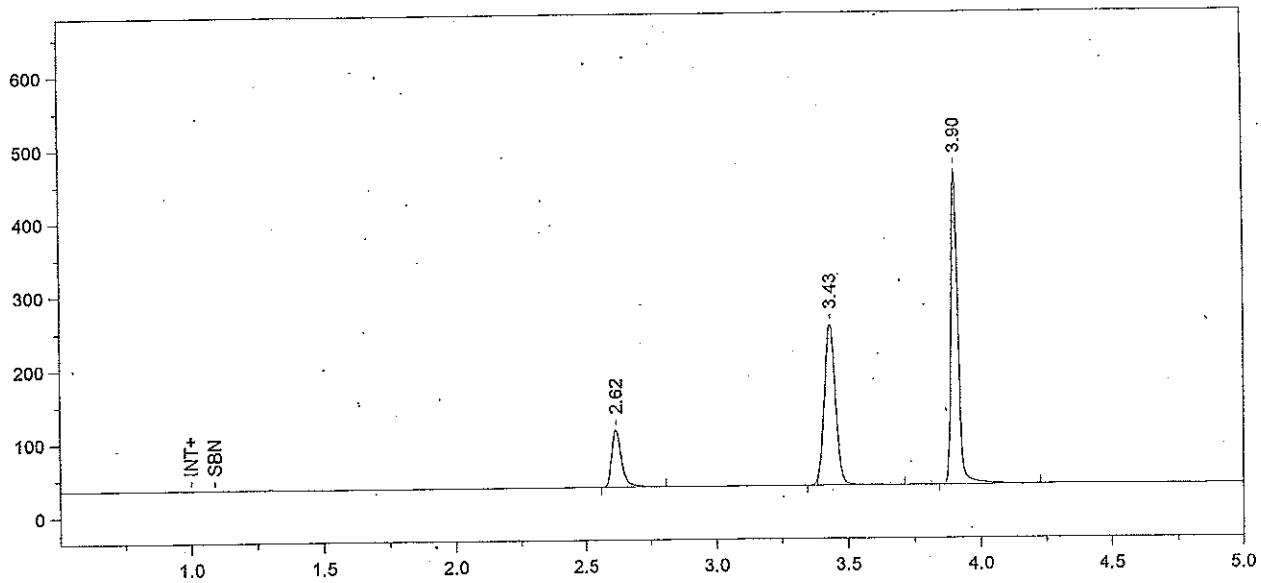
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	212459	0.0486	0.0397
2	3.44	t-Butanol	656189	0.9929	0.8104
3	3.91	n-Propanol	812482	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 2:44:39 PM
Bound File Name = Sim010612.0025.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/6/2012 2:44:37 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

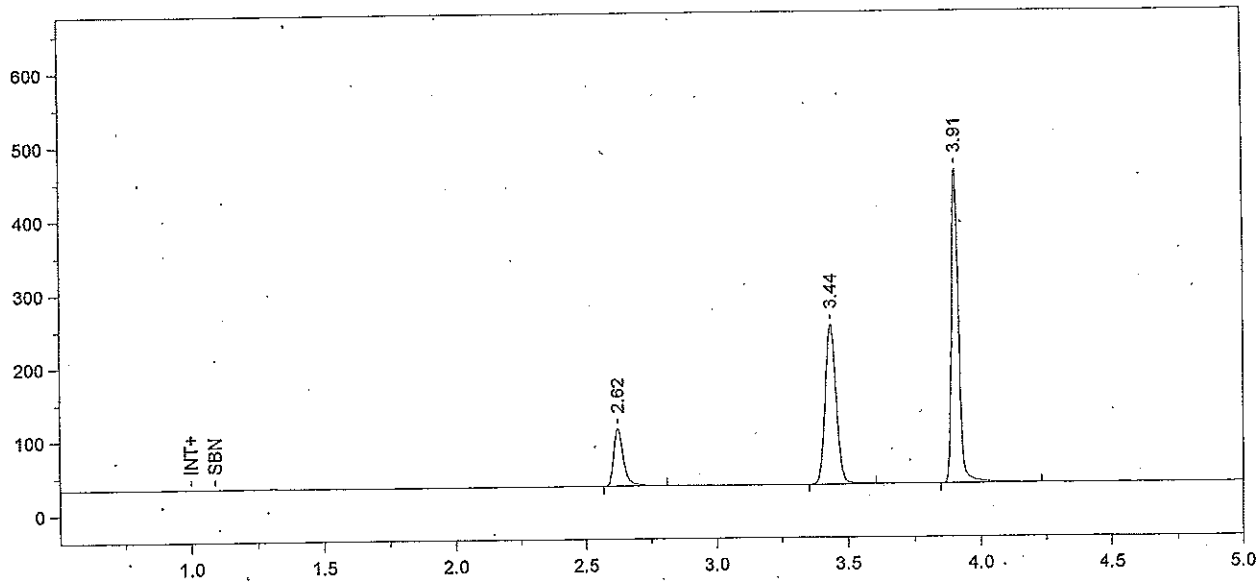
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	206473	0.0489	0.0399
2	3.43	t-Butanol	634266	0.9940	0.8113
3	3.90	n-Propanol	784535	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 2:59:50 PM
Bound File Name = Sim010612.0026.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/6/2012 2:59:43 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

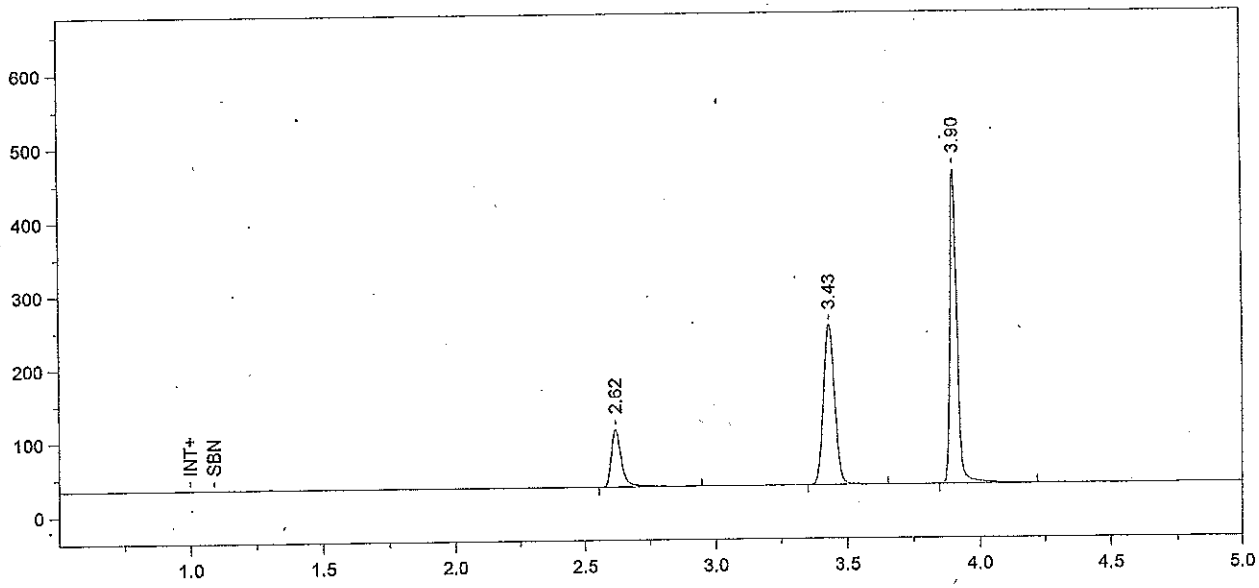
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	204572	0.0480	0.0391
2	3.43	t-Butanol	640622	0.9937	0.8110
3	3.90	n-Propanol	792644	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 3:14:51 PM
Bound File Name = Sim010612.0027.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/6/2012 3:14:44 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

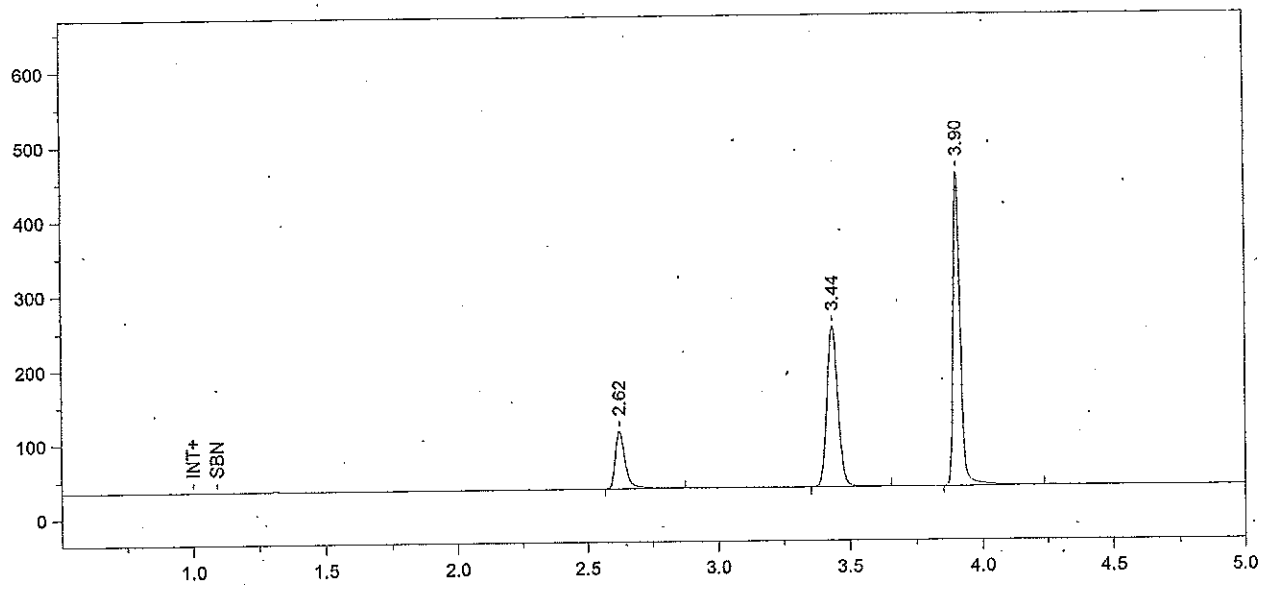
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	204518	0.0480	0.0391
2	3.44	t-Butanol	635154	0.9852	0.8042
3	3.91	n-Propanol	792582	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 3:29:50 PM
Bound File Name = Sim010612.0028.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/6/2012 3:29:46 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

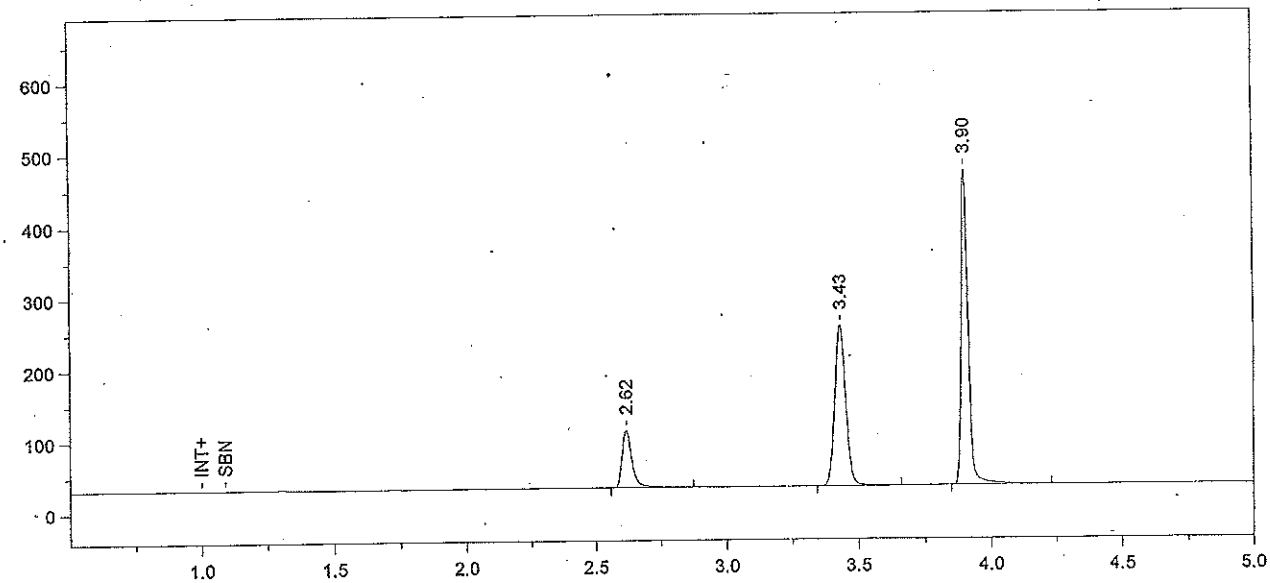
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	209985	0.0494	0.0404
2	3.43	t-Butanol	637677	0.9933	0.8107
3	3.90	n-Propanol	789270	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 3:44:47 PM
Bound File Name = Sim010612.0029.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/6/2012 3:44:45 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

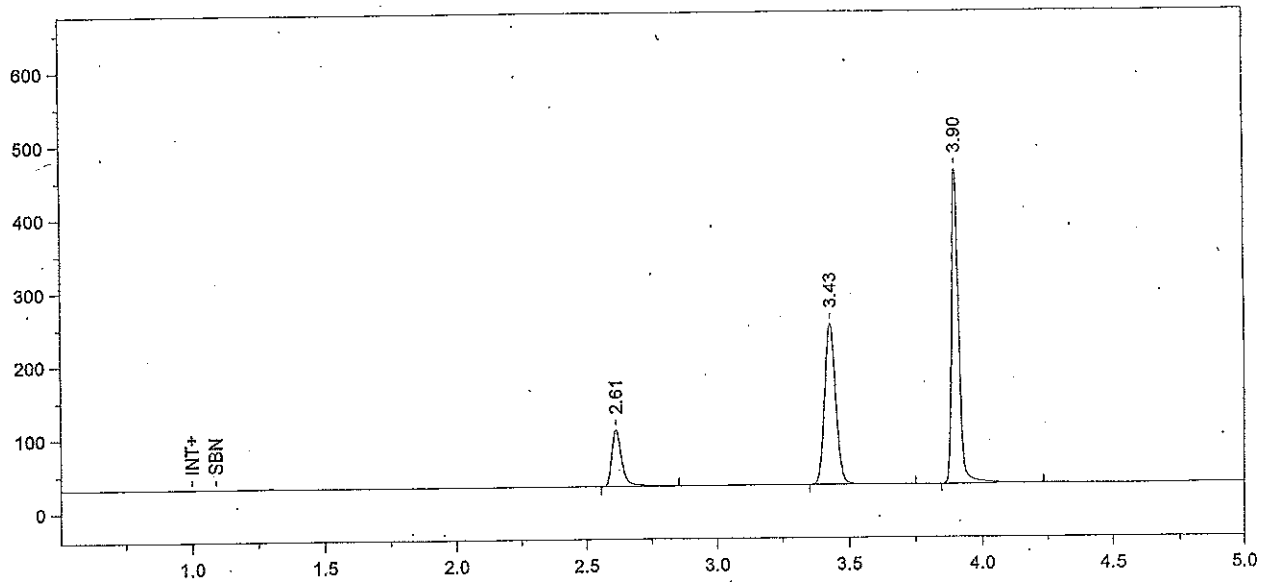
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	205246	0.0486	0.0397
2	3.44	t-Butanol	631267	0.9887	0.8070
3	3.90	n-Propanol	784970	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 3:59:58 PM
Bound File Name = Sim010612.0030.RAW
Sample Name = 0.04 Sim Sol - SRM
Date Taken = 1/6/2012 3:59:53 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

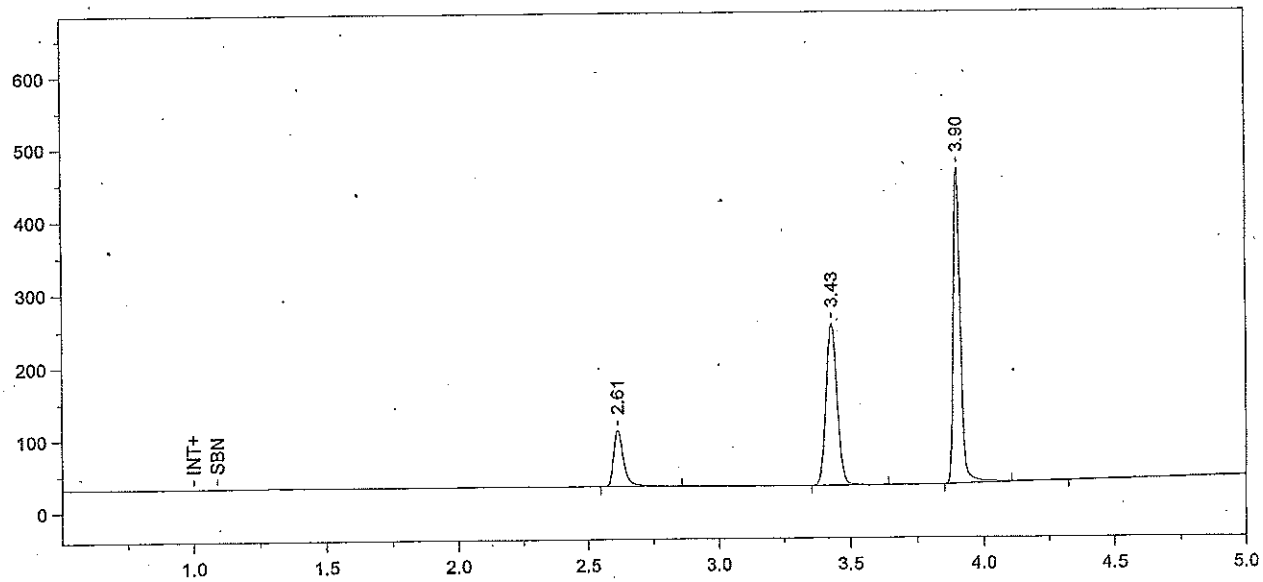
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	211462	0.0483	0.0394
2	3.43	t-Butanol	655792	0.9900	0.8080
3	3.90	n-Propanol	814448	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 4:14:55 PM
Bound File Name = Sim010612.0031.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/6/2012 4:14:54 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

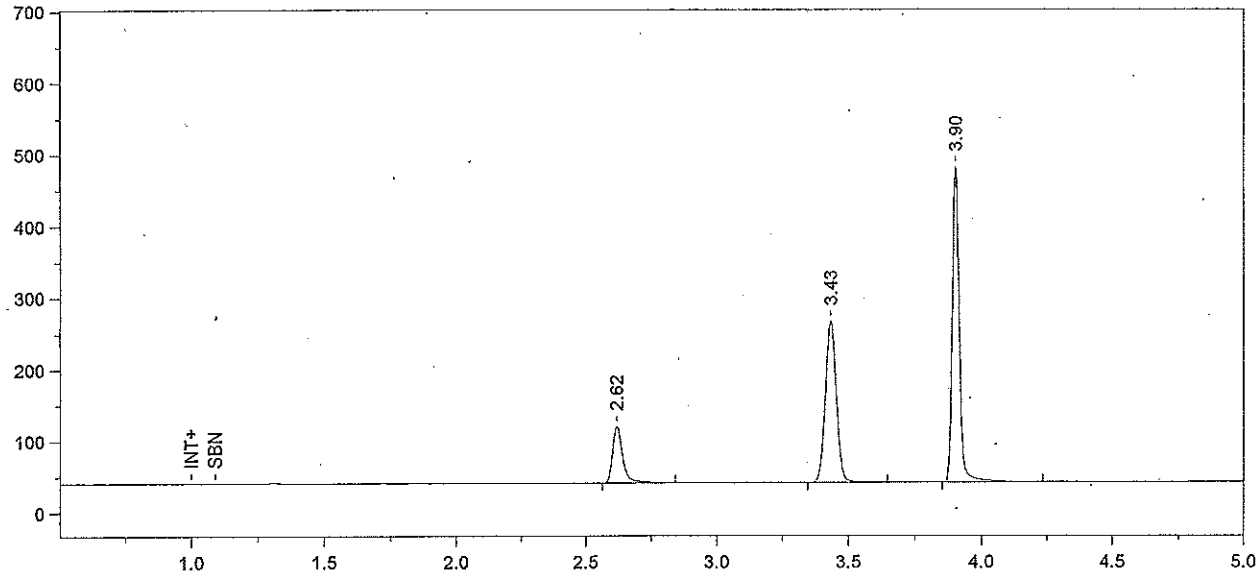
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.61	Ethanol	204089	0.0478	0.0390
2	3.43	t-Butanol	644082	0.9973	0.8140
3	3.90	n-Propanol	794017	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 4:29:56 PM
Bound File Name = Sim010612.0032.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/6/2012 4:29:49 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

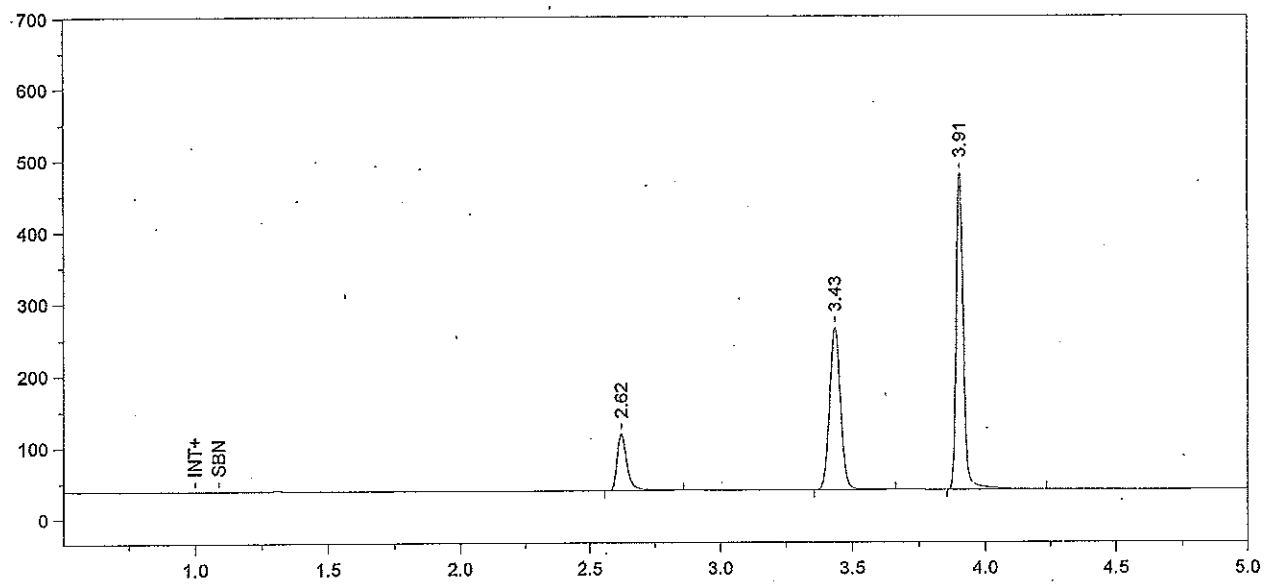
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.61	Ethanol	207676	0.0479	0.0391
2	3.43	t-Butanol	653014	0.9966	0.8134
3	3.90	n-Propanol	805624	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 4:44:53 PM
Bound File Name = Sim010612.0033.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/6/2012 4:44:50 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

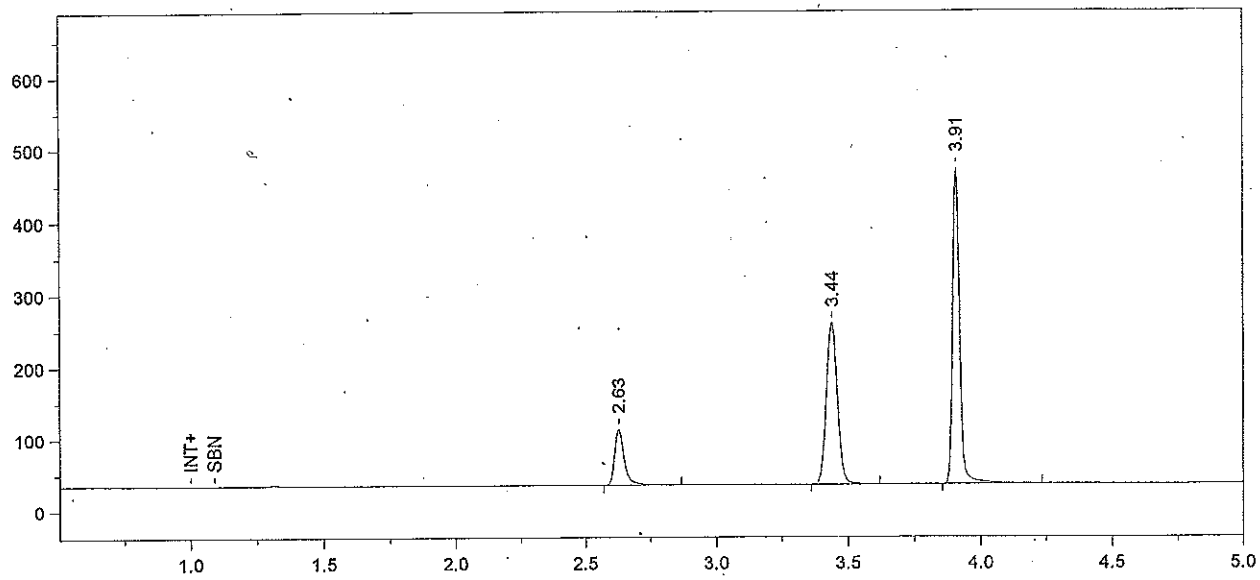
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	207980	0.0476	0.0388
2	3.43	t-Butanol	657176	0.9946	0.8118
3	3.90	n-Propanol	812370	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 4:59:54 PM
Bound File Name = Sim010612.0034.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/6/2012 4:59:51 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

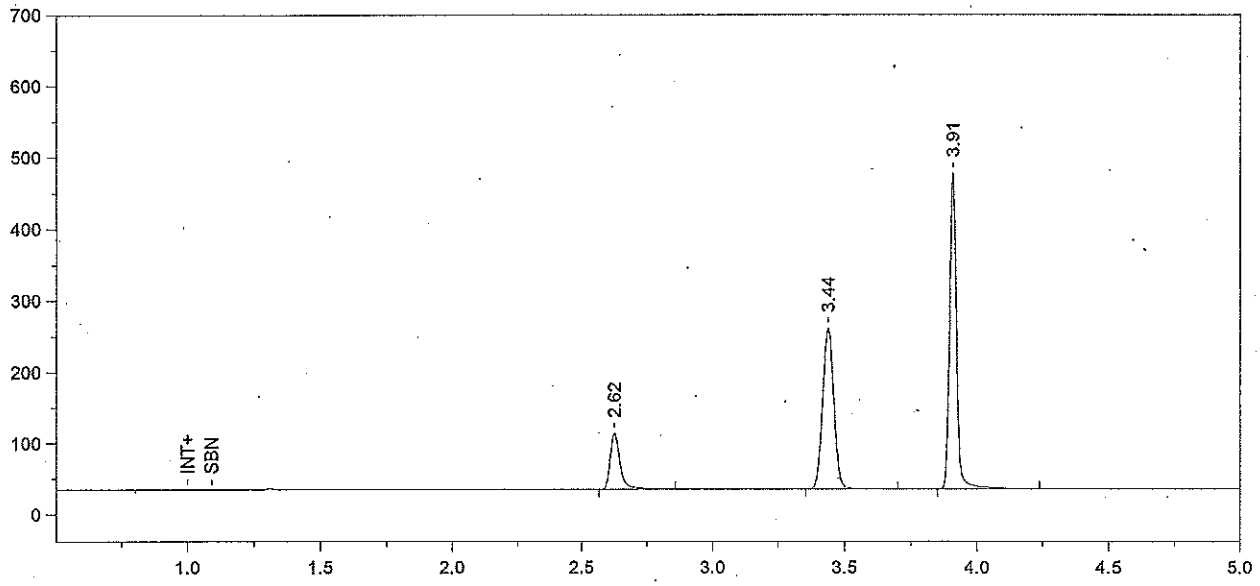
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	210022	0.0475	0.0388
2	3.43	t-Butanol	663126	0.9922	0.8098
3	3.91	n-Propanol	821731	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 5:15:00 PM
Bound File Name = Sim010612.0035.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/6/2012 5:14:53 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

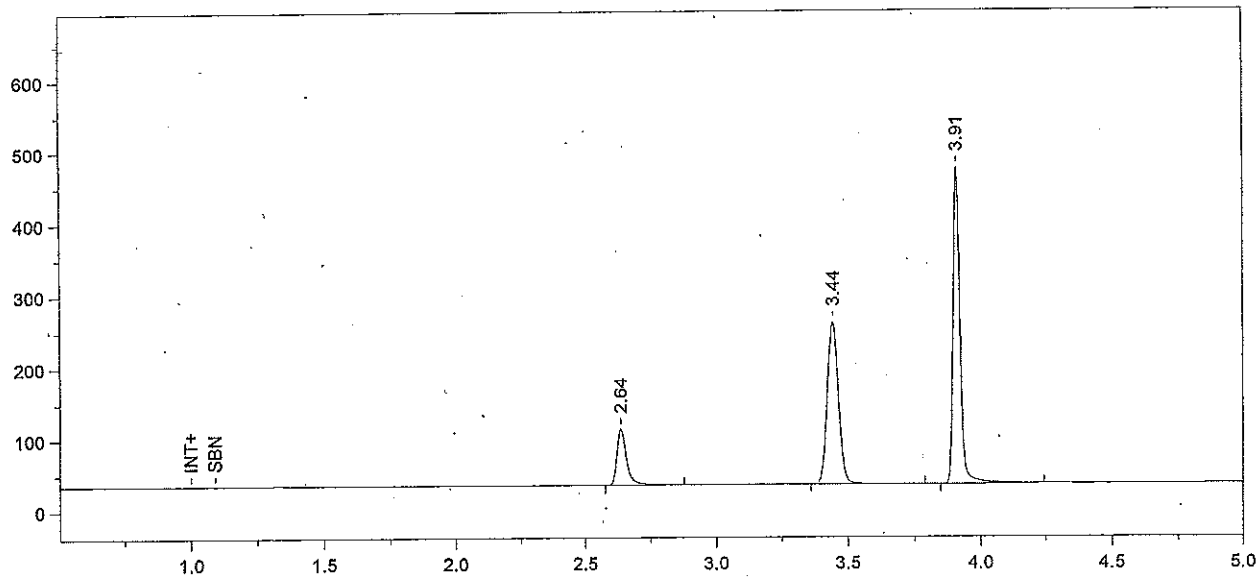
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.63	Ethanol	206603	0.0476	0.0388
2	3.44	t-Butanol	653027	0.9953	0.8124
3	3.91	n-Propanol	806666	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 5:30:03 PM
Bound File Name = Sim010612.0036.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/6/2012 5:29:56 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

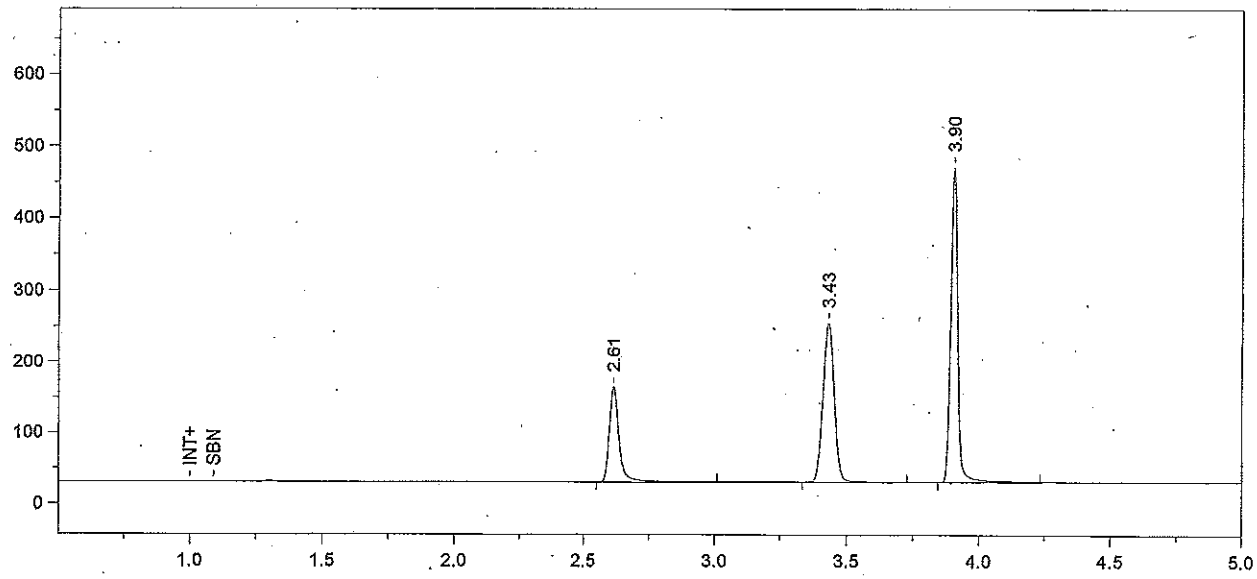
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.62	Ethanol	207638	0.0475	0.0387
2	3.44	t-Butanol	661000	0.9998	0.8160
3	3.91	n-Propanol	812857	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 5:45:04 PM
Bound File Name = Sim010612.0037.RAW
Sample Name = 0.04 Sim Sol - MCS
Date Taken = 1/6/2012 5:44:57 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

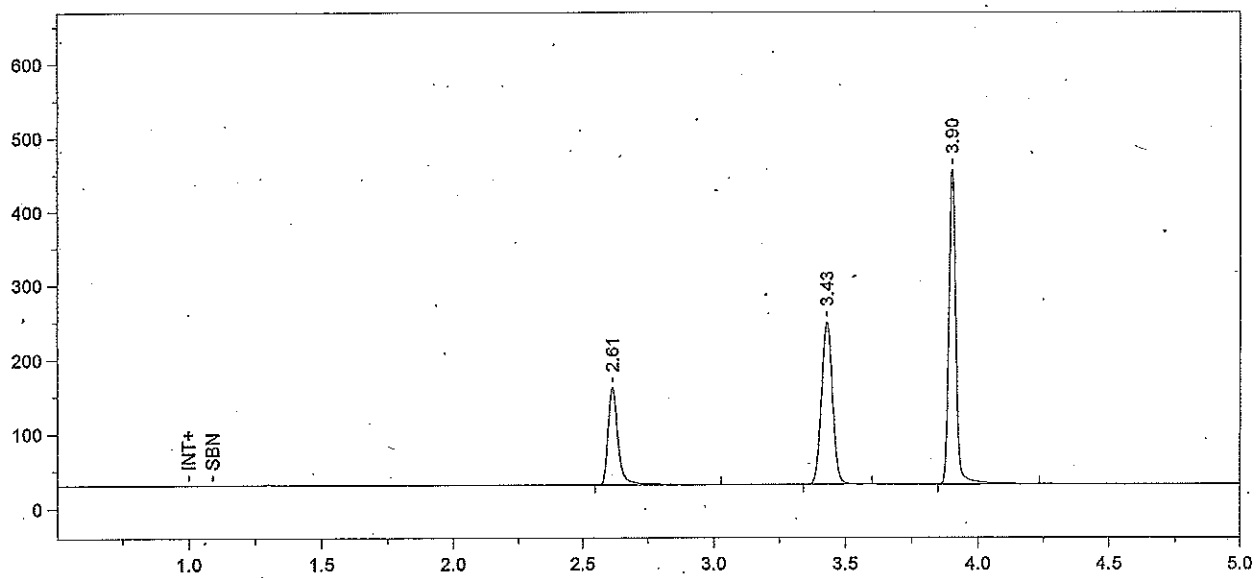
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.64	Ethanol	206588	0.0476	0.0388
2	3.44	t-Butanol	656846	1.0012	0.8172
3	3.91	n-Propanol	806610	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012 Today's Time = 6:00:01 PM
Bound File Name = Sim010612.0038.RAW
Sample Name = CCS B
Date Taken = 1/6/2012 5:59:59 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 201

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.61	Ethanol	356392	0.0816	0.0666
2	3.43	t-Butanol	656518	0.9940	0.8113
3	3.90	n-Propanol	812039	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 1/6/2012
Today's Time = 6:15:06 PM
Bound File Name = Sim010612.0039.RAW
Sample Name = CCS B
Date Taken = 1/6/2012 6:15:00 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 201

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.61	Ethanol	348256	0.0819	0.0668
2	3.43	t-Butanol	635293	0.9884	0.8067
3	3.90	n-Propanol	790233	1.0000	0.8162