Vermont Department of Health Laboratory
Organic Chemistry Program
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Certificate of Analysis of DataMaster External Standard Solution

On 11/17/2011, 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 12-38-100 and an expiration date of 11/17/2012.

On 11/17/2011 and 11/18/2011, the solution was analyzed against calibration Cal Version #149 and Cal Version #154. Analysis of the solution was performed using headspace gas chromatography. The instrument was calibrated prior to analyses. It was found to have met required quality assurance performance specifications and was operating properly. Quality checks throughout the analytical process demonstrated that the instrument continued to operate properly.

This solution is certified as presenting 0.101 g/210L simulated breath ethanol concentration and approved for use as a DataMaster External Standard solution.

Dated at Burlington, Vermont on Monday, November 21, 2011.

Steven Merrill

0.1 External Standard Solution 20L
Lot # 12-38-100
Prepared 11/17/2011 by SRM
Exp 11/17/2012

MCS CAL Version 149
SRM/ALB Vials
Analyzed on 11/17/2011

0.0999 srm
0.0988
0.1023
0.1000
0.0983
0.0997
0.1012 ALB
0.0994 mcs
0.1000
0.0998
0.0977
0.0999
0.0989
~~0.1135~~

Ave. = 0.0997
Std Dev. = 0.0012
Range = 0.0977 - 0.1023

SRM CAL Version 154
SRM/MCS Vials
Analyzed on 11/18/2011

0.1028 srm
0.1027
0.1009
0.1011
0.1025
0.1010
0.1029
0.1020 mcs
0.1034
0.1000
0.1028
0.1023
0.1005
0.1018

Ave. = 0.1019
Std Dev. = 0.0010
Range = 0.1000 - 0.1034

Total Values from Both Runs

Average	Mean
0.0977	0.0977
0.0983	0.0983
0.0988	0.0988
0.0989	0.0989
0.0994	0.0994
0.0997	0.0997
0.0998	0.0998
0.0999	0.0999
0.0999	
0.1000	0.1000
0.1000	
0.1000	
0.1005	0.1005
0.1009	0.1009
0.1010	0.1010
0.1011	0.1011
0.1012	0.1012
0.1018	0.1018
0.1020	0.1020
0.1023	0.1023
0.1023	
0.1025	0.1025
0.1027	0.1027
0.1028	0.1028
0.1028	
0.1029	0.1029
0.1034	0.1034

Ave. =	0.1008
Std Dev. =	0.0016
Range =	0.0977 - 0.1034
Mean =	0.1008
Mean Std Dev. =	0.0016
RPD (Mean to Ave.)=	0.00%

Reviewed 11/28/11

Rev. 11-21-11

DataMaster Simulator Solution
Lot # 12-38-100 $EtOH_{aq}$ Conc: 0.101
Range: 0.096 - 0.106
Preparation Date: 11/17/2011 Expires: 11/17/2012

OPENED:

File Name: C:\Methods\SimSolution.cal
Version: 149

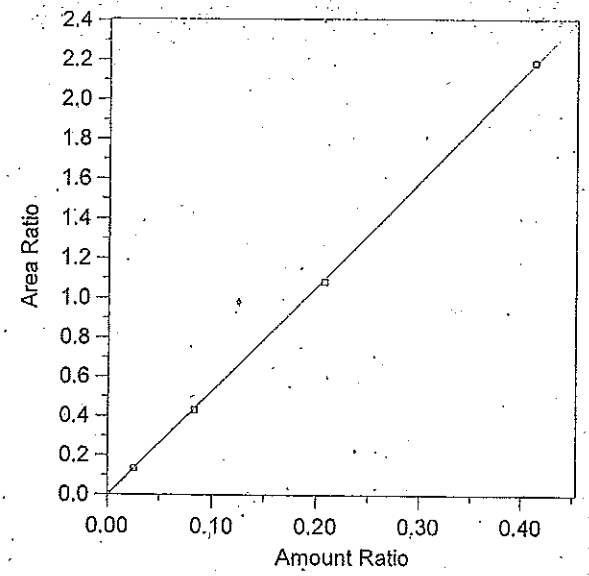
Creator:
Description:
Reason for change:

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

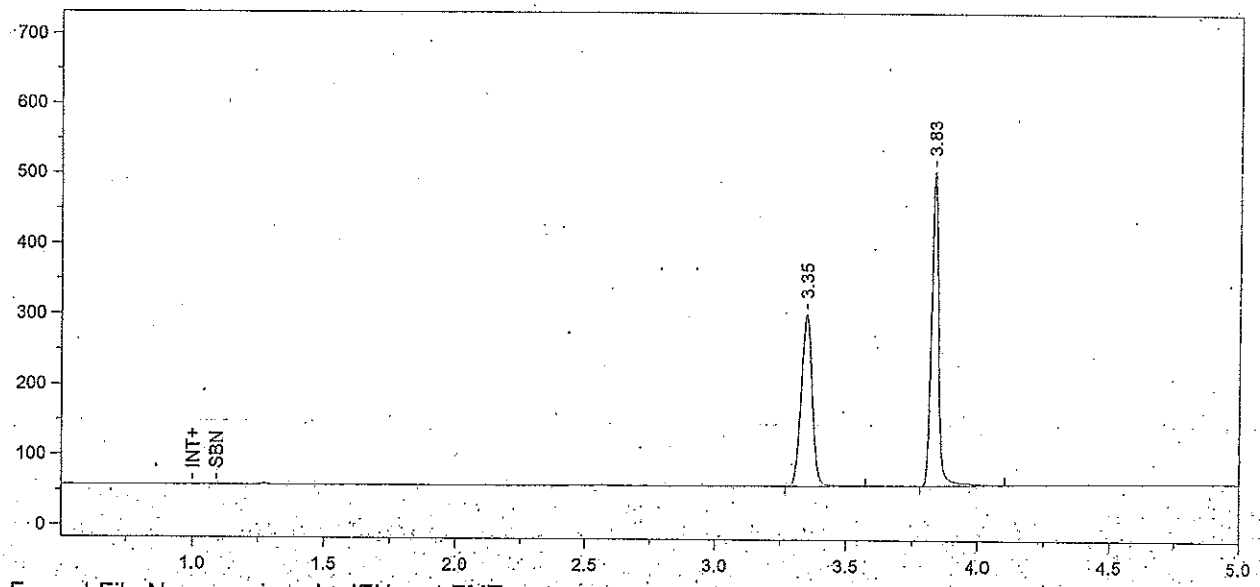
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

Y = 5.286367 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999033
Average error: 1.225%
Average CF: 4.17239
RSD: 55.921%

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	0.0257	115192.7	4482207	-2.812	0.0257	0.1320388	C:\Alcohol Data\Sim111611\Sim111611.0003.BND	11/16/2011 4:35:11 PM
3	0.0828	368771.3	4453760	-1.741	0.0828	0.4300898	C:\Alcohol Data\Sim111611\Sim111611.0004.BND	11/16/2011 4:50:10 PM
4	0.2072	925401.1	4466222	-1.191	0.2072	1.08229	C:\Alcohol Data\Sim111611\Sim111611.0005.BND	11/16/2011 5:05:09 PM
5	0.4126	1880327	4557264	0.381	0.4126	2.189474	C:\Alcohol Data\Sim111611\Sim111611.0006.BND	11/16/2011 5:20:14 PM



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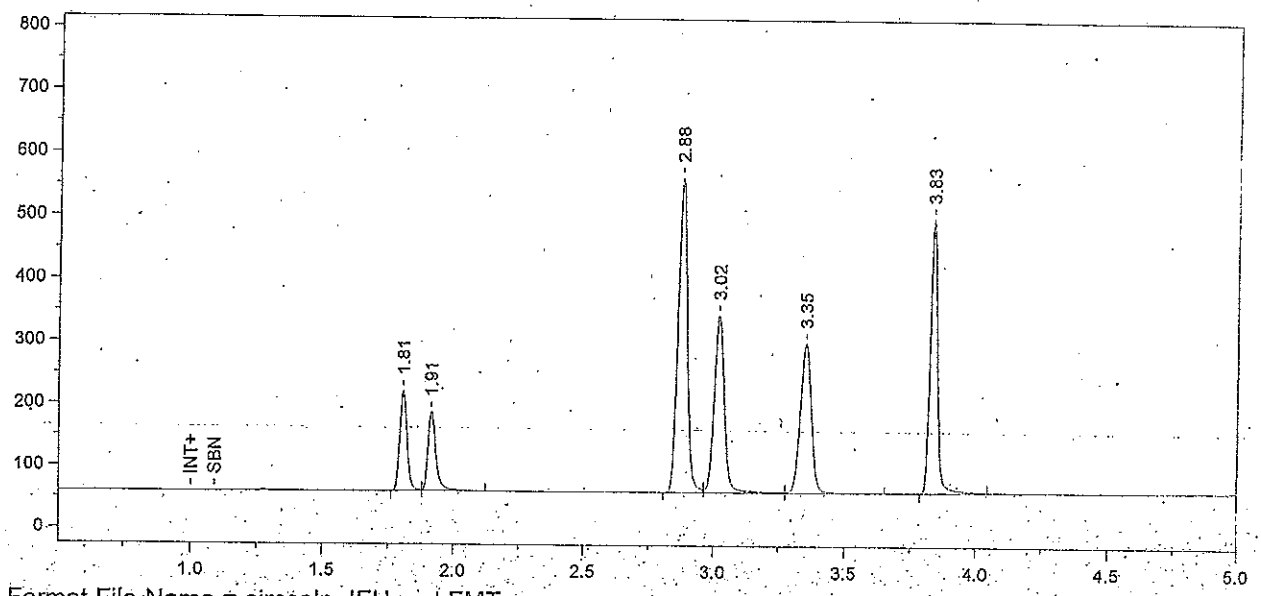
Bound File Name = Sim111611.0001.RAW
Sample Name = Blank
Date Taken = 11/16/2011 4:05:25 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	3.35	t-Butanol	718164	0.9948	0.8119
2	3.83	n-Propanol	855877	1.0000	0.8162



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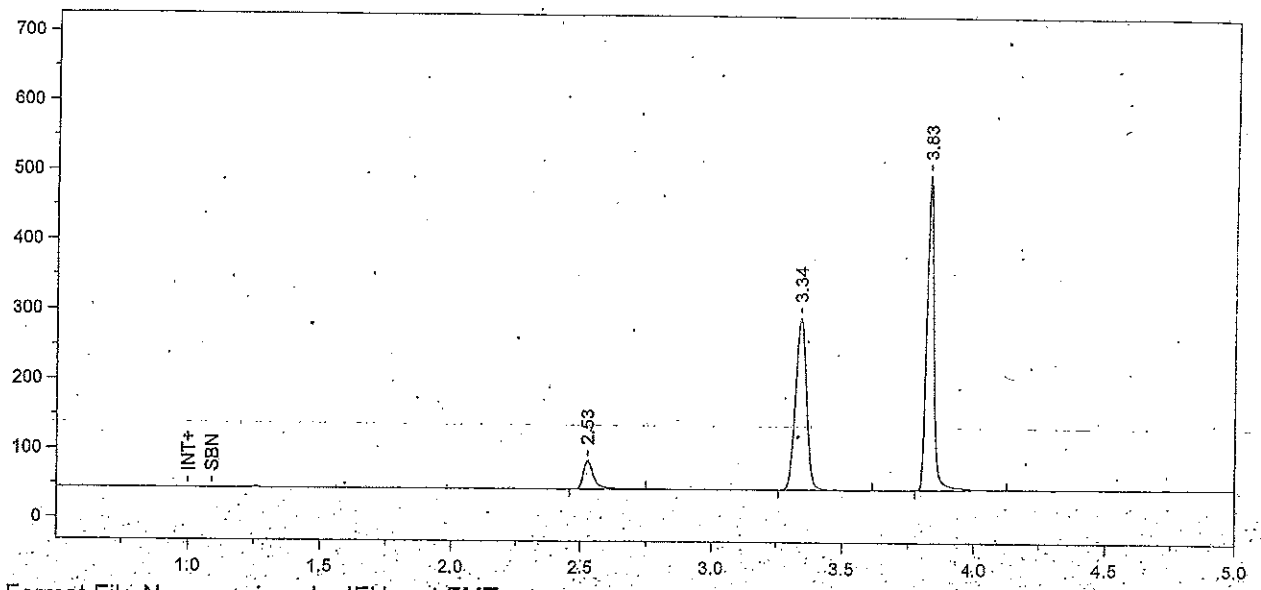
Sample Name = TMX
Date Taken = 11/16/2011 4:20:03 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	1.81	Acetaldehyde	315597	0.0510	0.0416
2	1.91	Methanol	258720	0.1280	0.1045
3	2.88	Acetone	1248922	0.0600	0.0490
4	3.02	Isopropanol	772292	0.0810	0.0661
5	3.35	t-Butanol	715052	1.0122	0.8262
6	3.83	n-Propanol	837457	1.0000	0.8162



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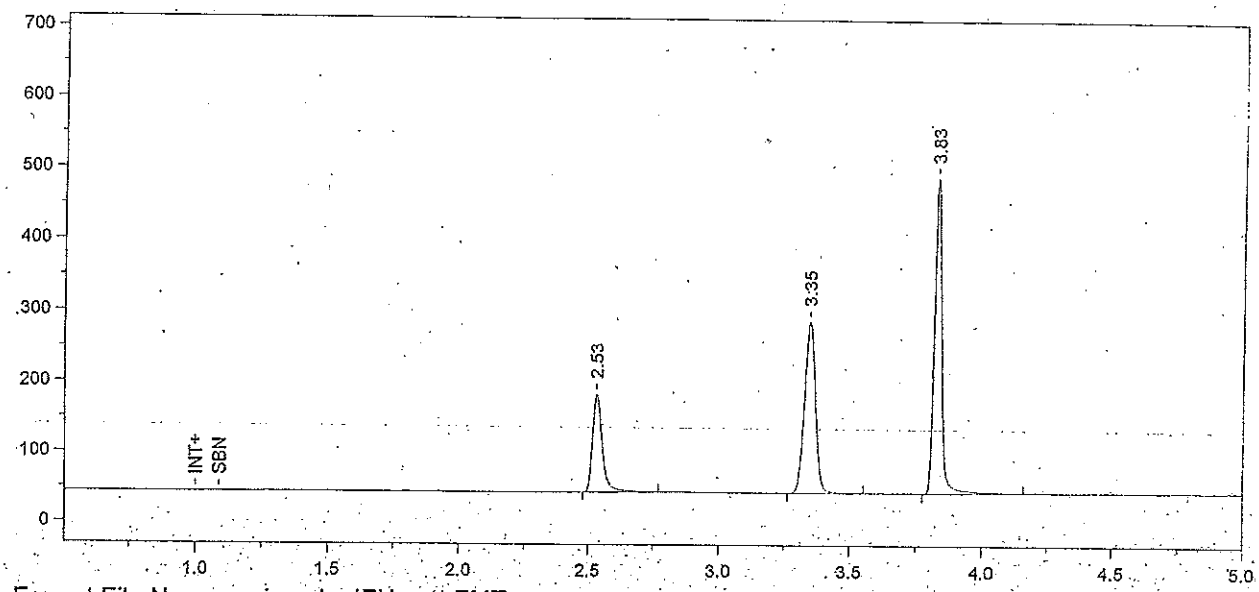
Today's Time = 7:22:40 AM
Bound File Name = Sim111611.0003.RAW
Sample Name = Std A
Date Taken = 11/16/2011 4:35:04 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.53	Ethanol	115193	0.0250	0.0204
2	3.34	t-Butanol	737817	1.0026	0.8183
3	3.83	n-Propanol	872416	1.0000	0.8162



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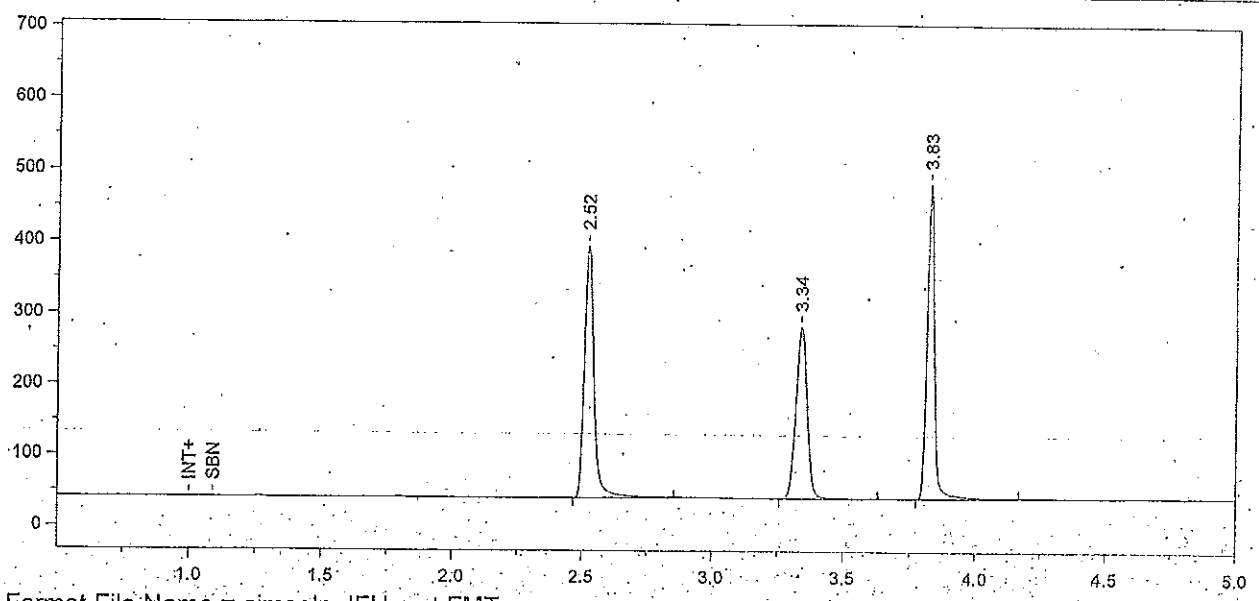
Sample Name = Std B
Date Taken = 11/16/2011 4:50:05 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.53	Ethanol	368771	0.0814	0.0664
2	3.35	t-Butanol	717255	0.9917	0.8094
3	3.83	n-Propanol	857429	1.0000	0.8162



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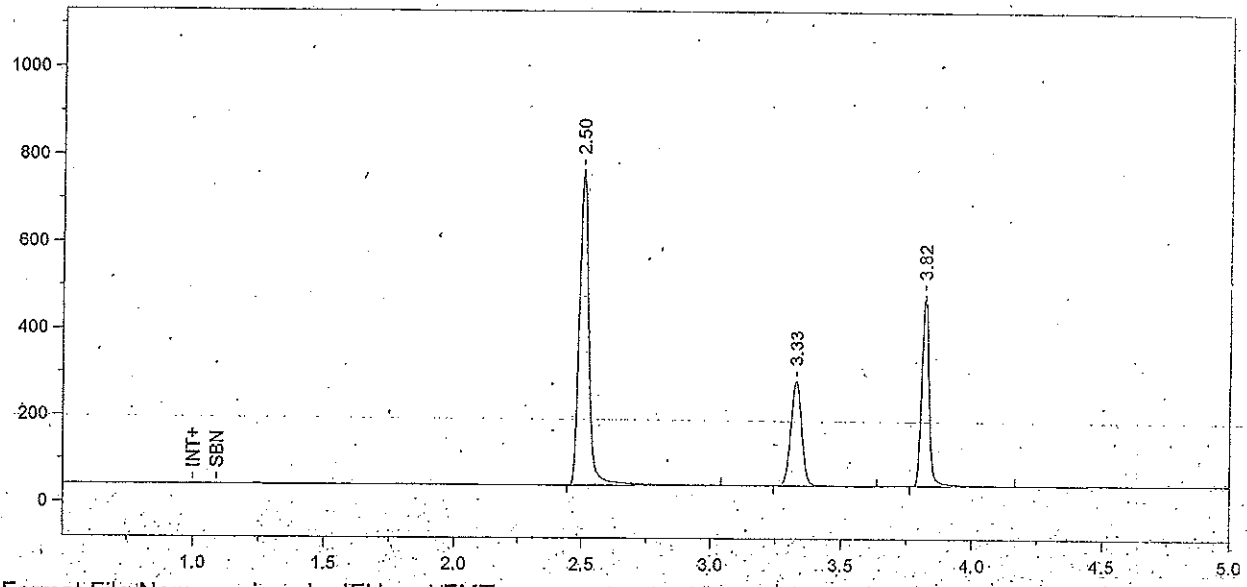
Sample Name = Std C
Date Taken = 11/16/2011 5:05:06 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.52	Ethanol	925401	0.2047	0.1671
2	3.34	t-Butanol	720775	0.9993	0.8157
3	3.83	n-Propanol	855040	1.0000	0.8162



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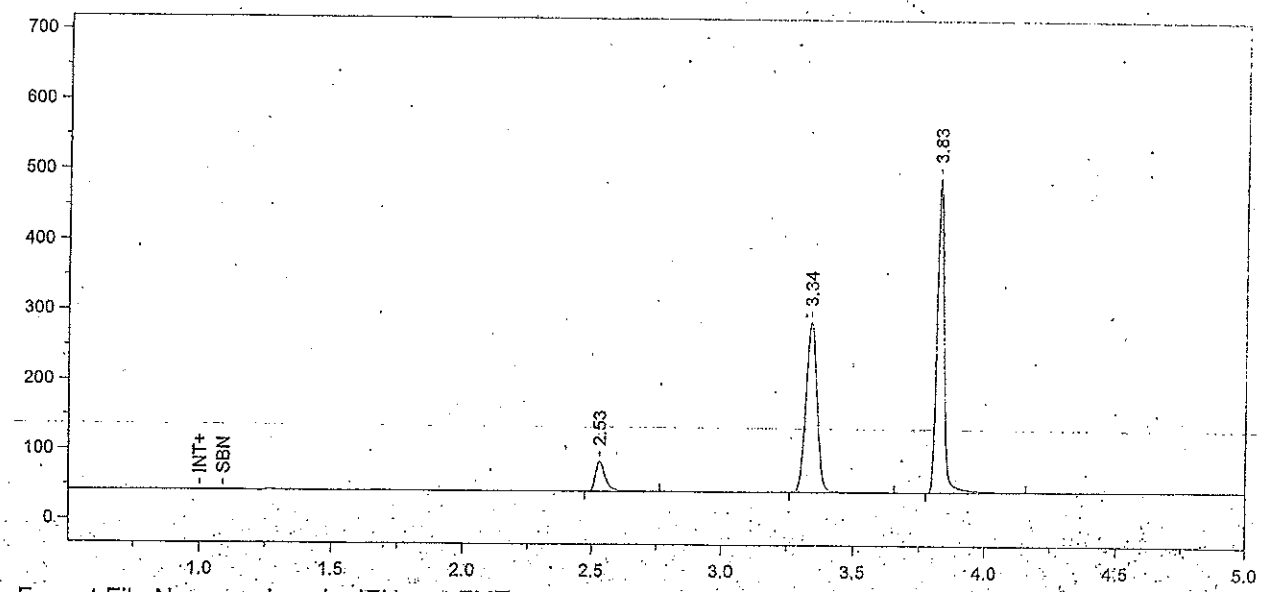
Bound File Name = Sim111611.0006.RAW
Sample Name = Std D
Date Taken = 11/16/2011 5:20:06 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.50	Ethanol	1880327	0.4142	0.3380
2	3.33	t-Butanol	720173	0.9941	0.8114
3	3.82	n-Propanol	858803	1.0000	0.8162



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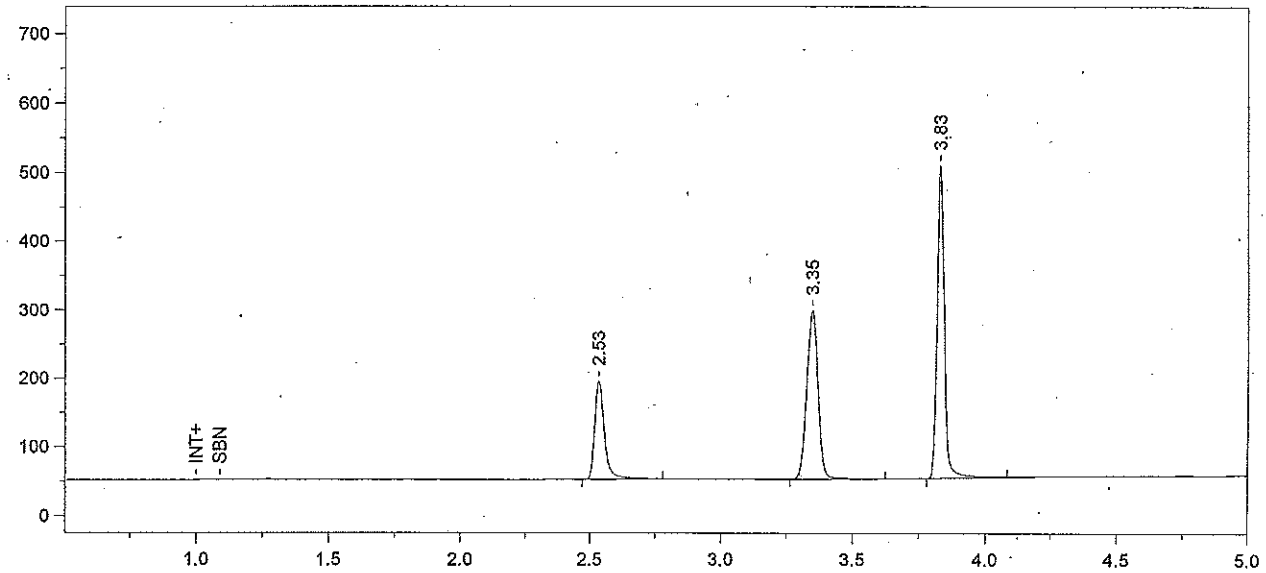
Sample Name = Aq control 0.25
Date Taken = 11/16/2011 5:35:13 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.53	Ethanol	119673	0.0262	0.0214
2	3.34	t-Butanol	724463	0.9954	0.8124
3	3.83	n-Propanol	862853	1.0000	0.8162



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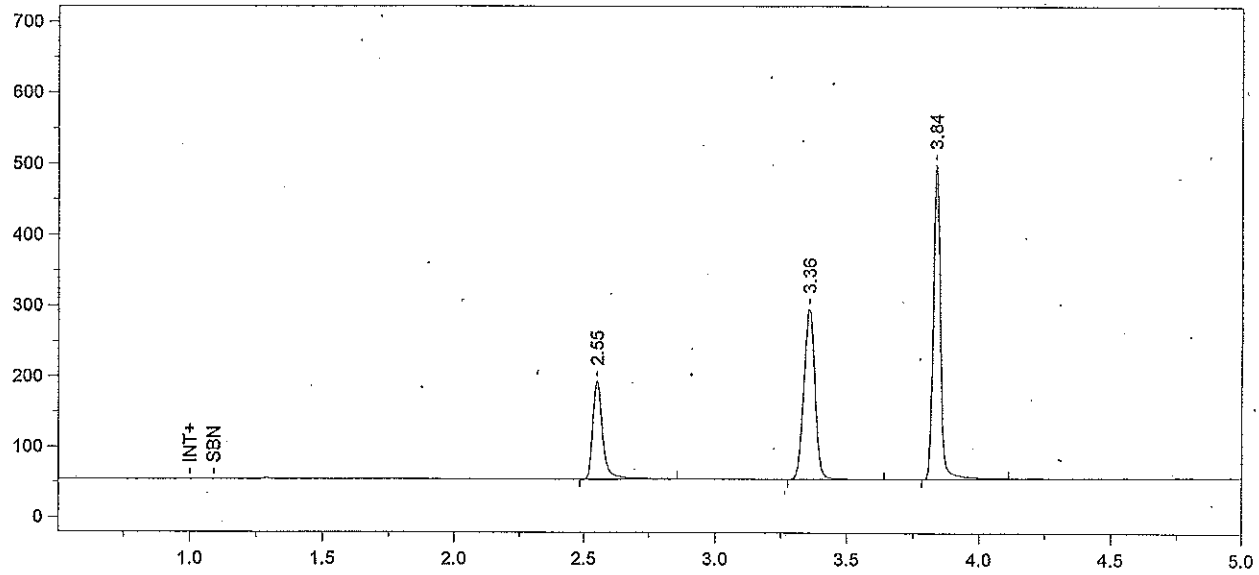
Sample Name = CCS B
Date Taken = 11/17/2011 3:52:37 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.53	Ethanol	374380	0.0825	0.0674
2	3.35	t-Butanol	724745	1.0012	0.8172
3	3.83	n-Propanol	858118	1.0000	0.8162



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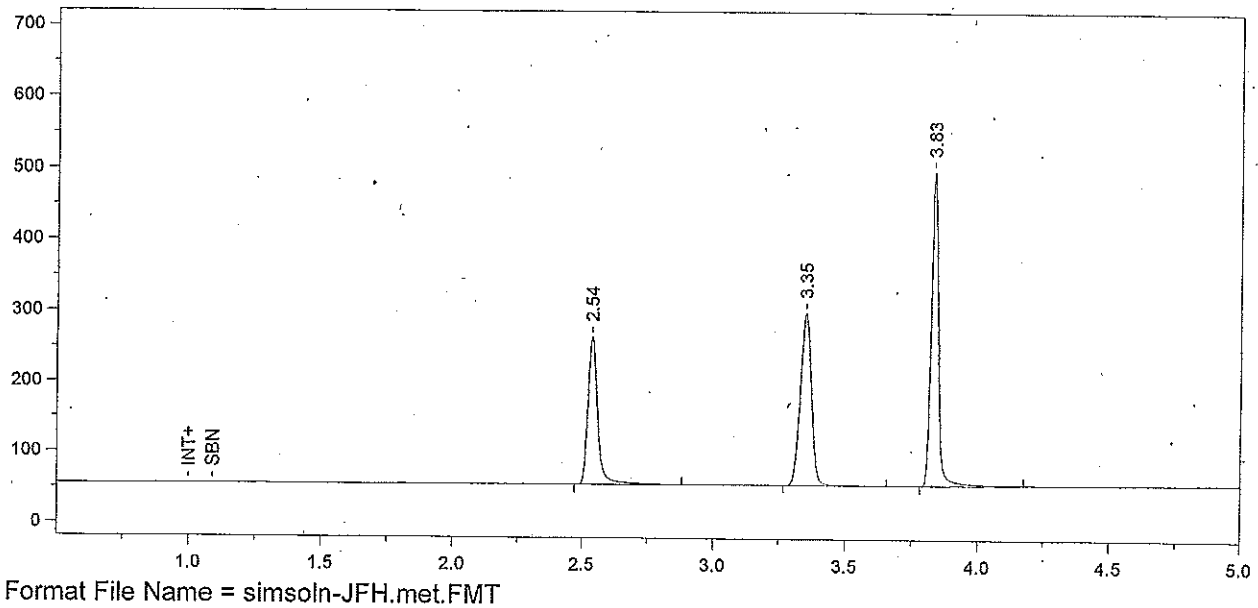
Today's Time = 4:07:00 PM
Bound File Name = Sim111711.0002.RAW
Sample Name = CCS B
Date Taken = 11/17/2011 4:06:57 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	369611	0.0836	0.0682
2	3.36	t-Butanol	704648	0.9984	0.8149
3	3.84	n-Propanol	836703	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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Today's Time = 4:22:09 PM
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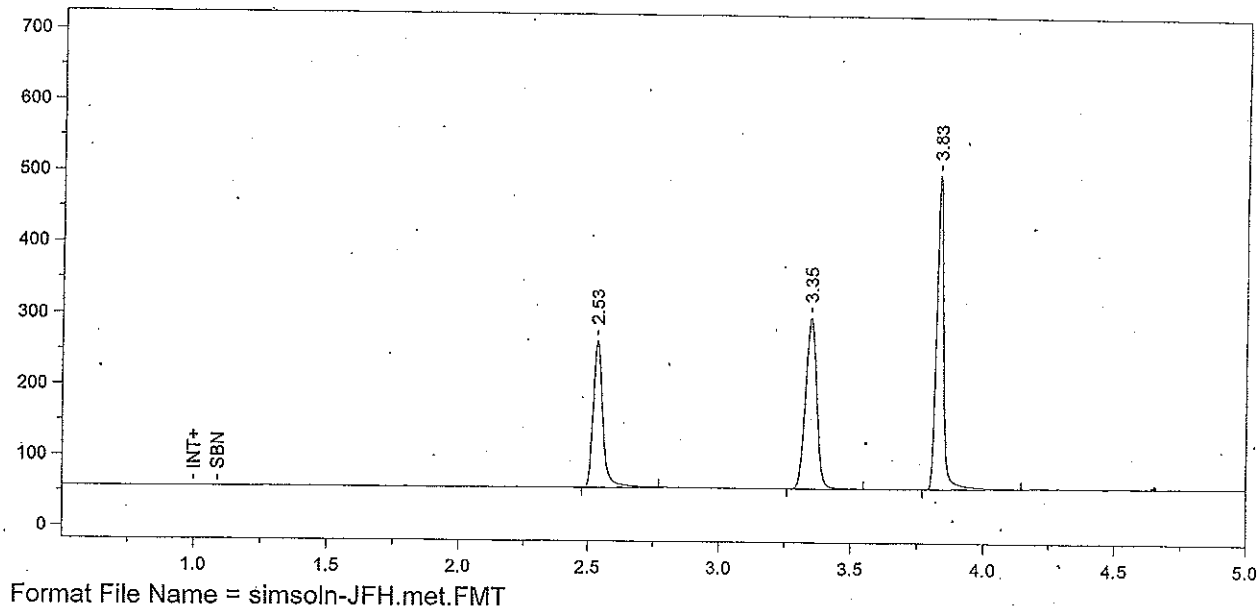
Sample Name = 0.1 Ext. Std. Sim Sol - SRM
Date Taken = 11/17/2011 4:22:04 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	552158	0.1224	0.0999
2	3.35	t-Butanol	717723	0.9972	0.8139
3	3.83	n-Propanol	853218	1.0000	0.8162



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Today's Time = 4:37:12 PM
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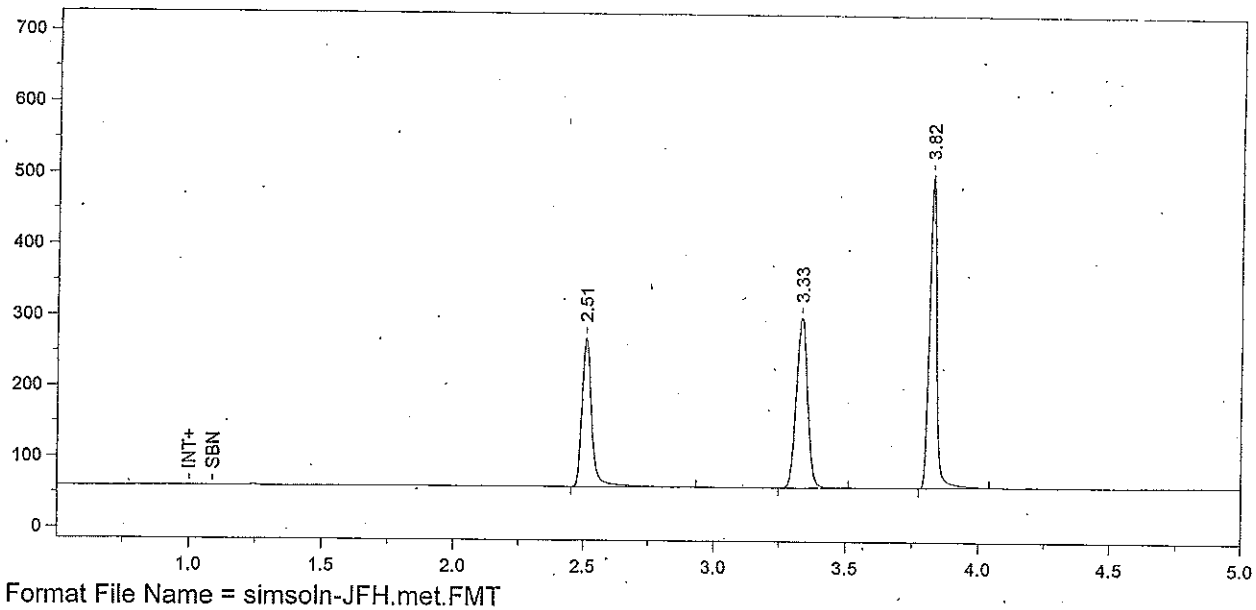
Sample Name = 0.1 Ext. Std. Sim Sol - SRM
Date Taken = 11/17/2011 4:37:06 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.53	Ethanol	542308	0.1210	0.0988
2	3.35	t-Butanol	708154	0.9901	0.8081
3	3.83	n-Propanol	847899	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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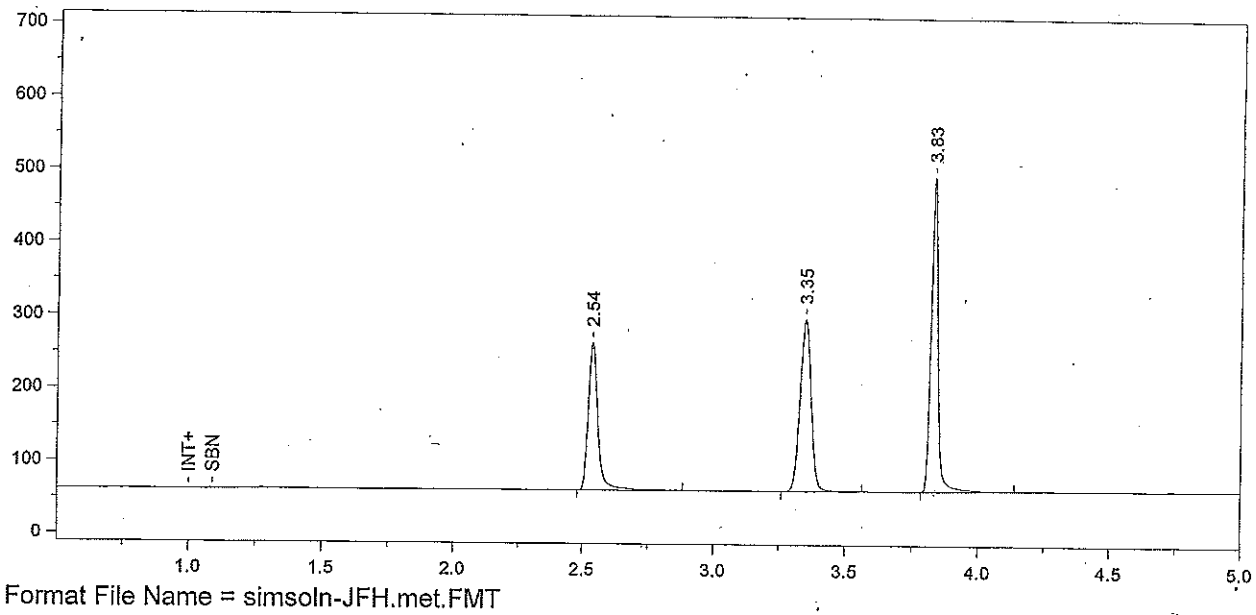
Sample Name = 0.1 Ext. Std. Sim Sol - SRM
Date Taken = 11/17/2011 4:52:07 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.51	Ethanol	564052	0.1253	0.1023
2	3.33	t-Butanol	712305	0.9916	0.8093
3	3.82	n-Propanol	851590	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/17/2011
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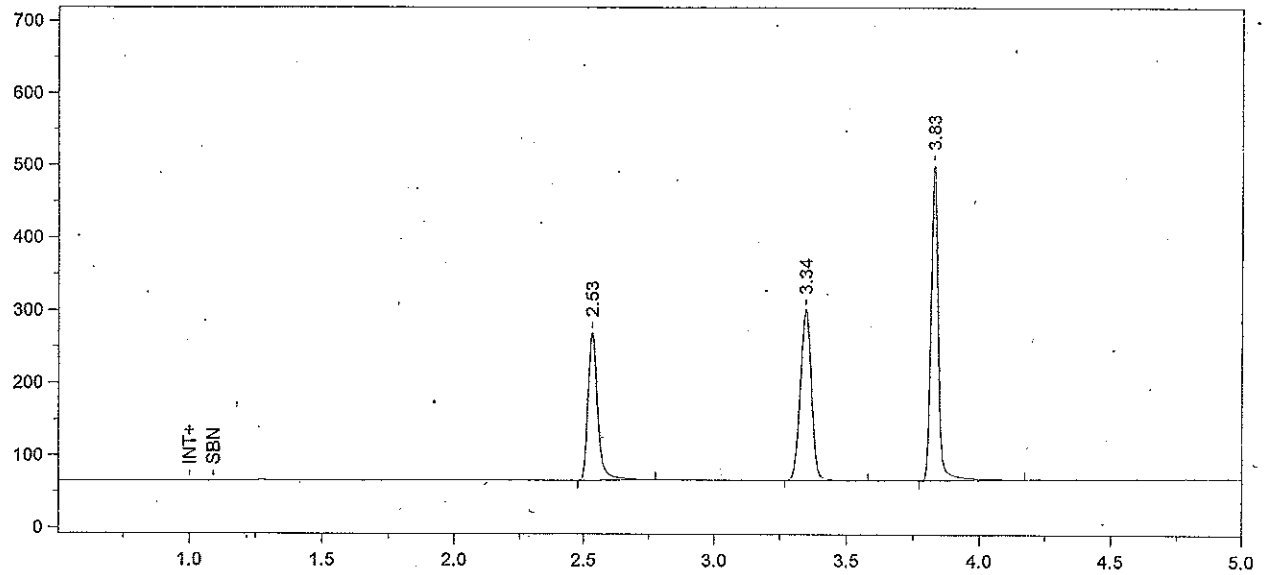
Sample Name = 0.1 Ext. Std. Sim Sol - SRM
Date Taken = 11/17/2011 5:07:07 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	536369	0.1228	0.1003
2	3.35	t-Butanol	694336	0.9965	0.8133
3	3.83	n-Propanol	826053	1.0000	0.8162



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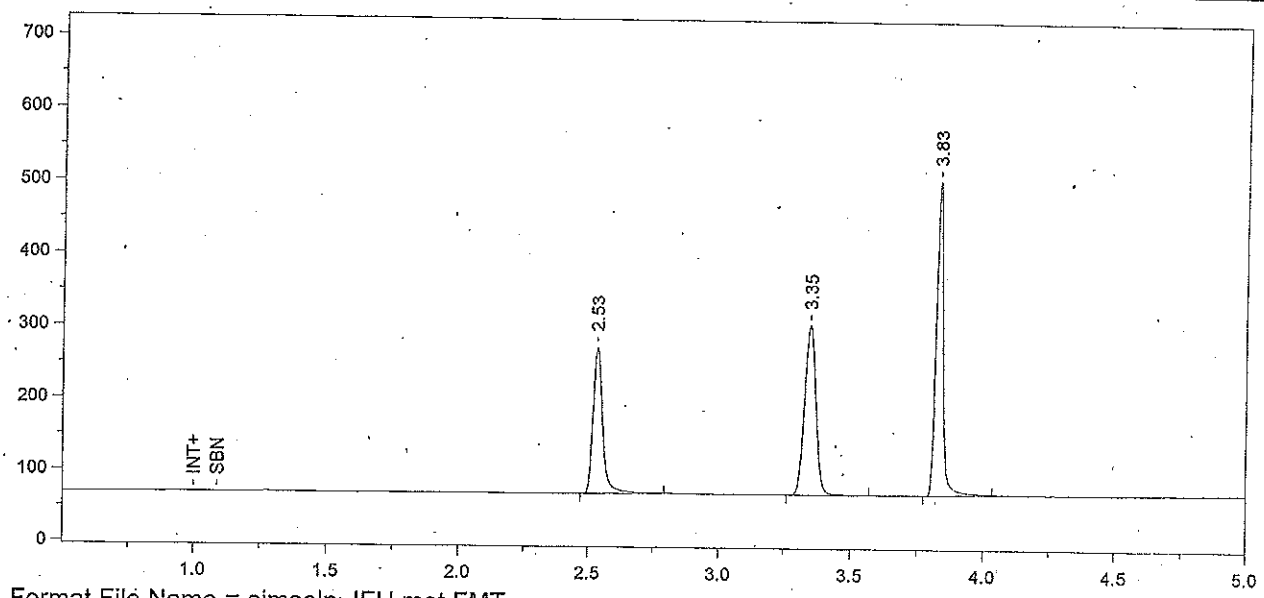
Date Taken = 11/17/2011 5:22:14 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.53	Ethanol	531349	0.1204	0.0983
2	3.34	t-Butanol	694660	0.9867	0.8054
3	3.83	n-Propanol	834601	1.0000	0.8162



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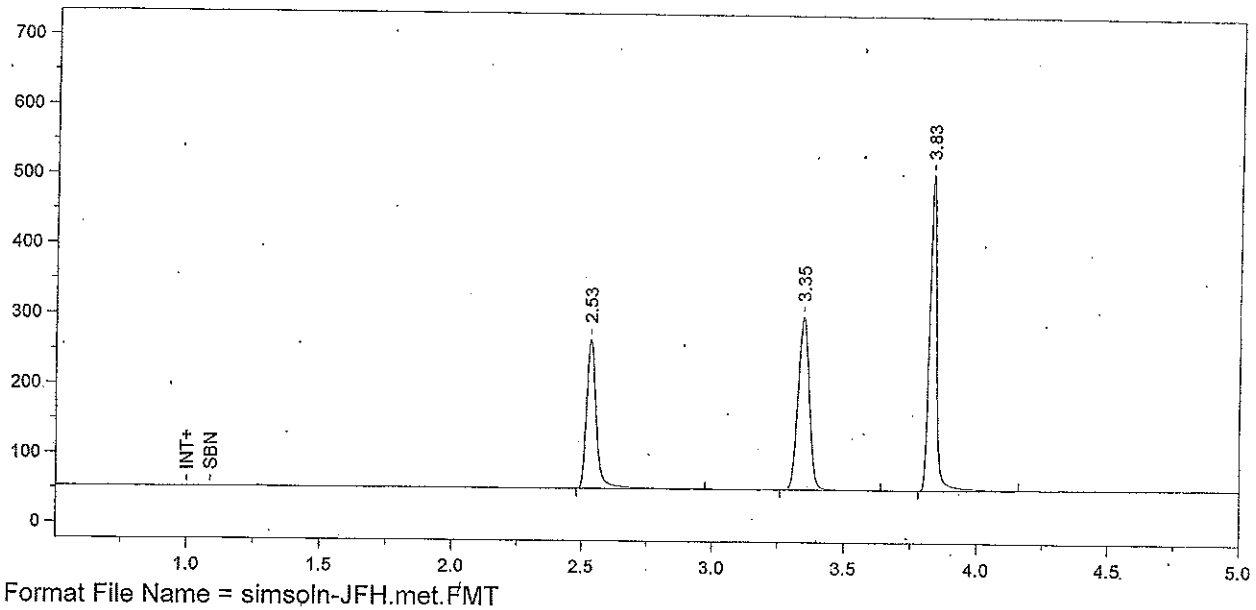
Date Taken = 11/17/2011 5:37:15 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.53	Ethanol	530630	0.1221	0.0997
2	3.35	t-Butanol	694385	1.0016	0.8175
3	3.83	n-Propanol	821901	1.0000	0.8162



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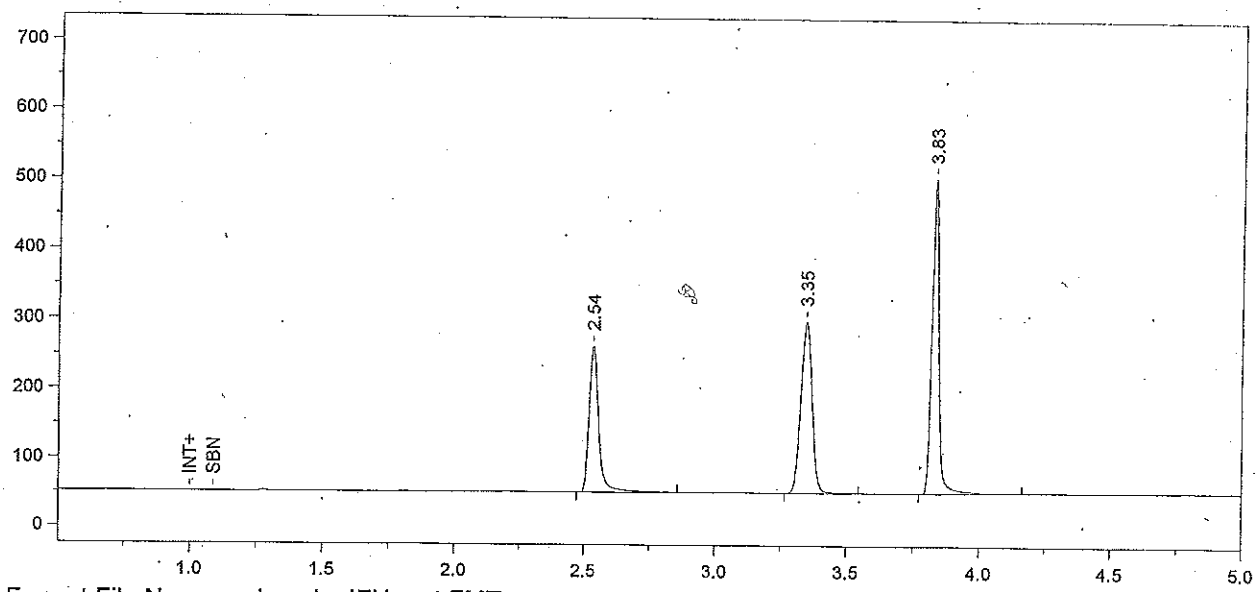
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.53	Ethanol	572953	0.1240	0.1012
2	3.35	t-Butanol	730789	0.9915	0.8093
3	3.83	n-Propanol	873784	1.0000	0.8162



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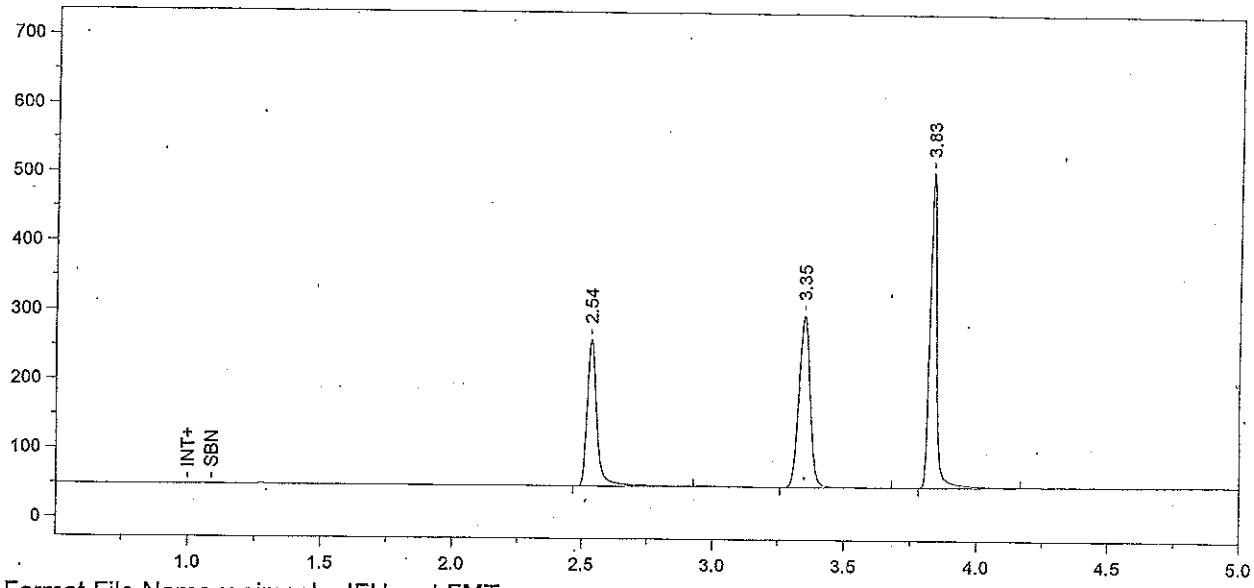
Date Taken = 11/17/2011 6:07:12 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	558294	0.1218	0.0994
2	3.35	t-Butanol	726101	0.9929	0.8104
3	3.83	n-Propanol	866973	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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Today's Time = 6:22:20 PM
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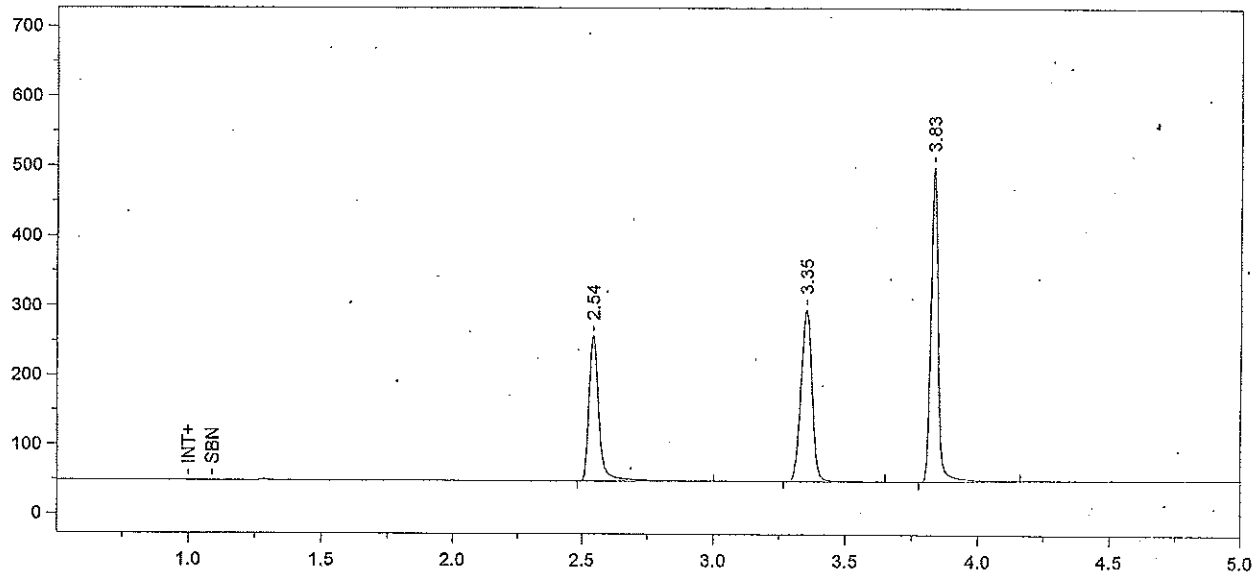
Sample Name = 0.1 Ext. Std. Sim Sol - ALB
Date Taken = 11/17/2011 6:22:13 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	564345	0.1225	0.1000
2	3.35	t-Butanol	734294	0.9990	0.8154
3	3.83	n-Propanol	871361	1.0000	0.8162



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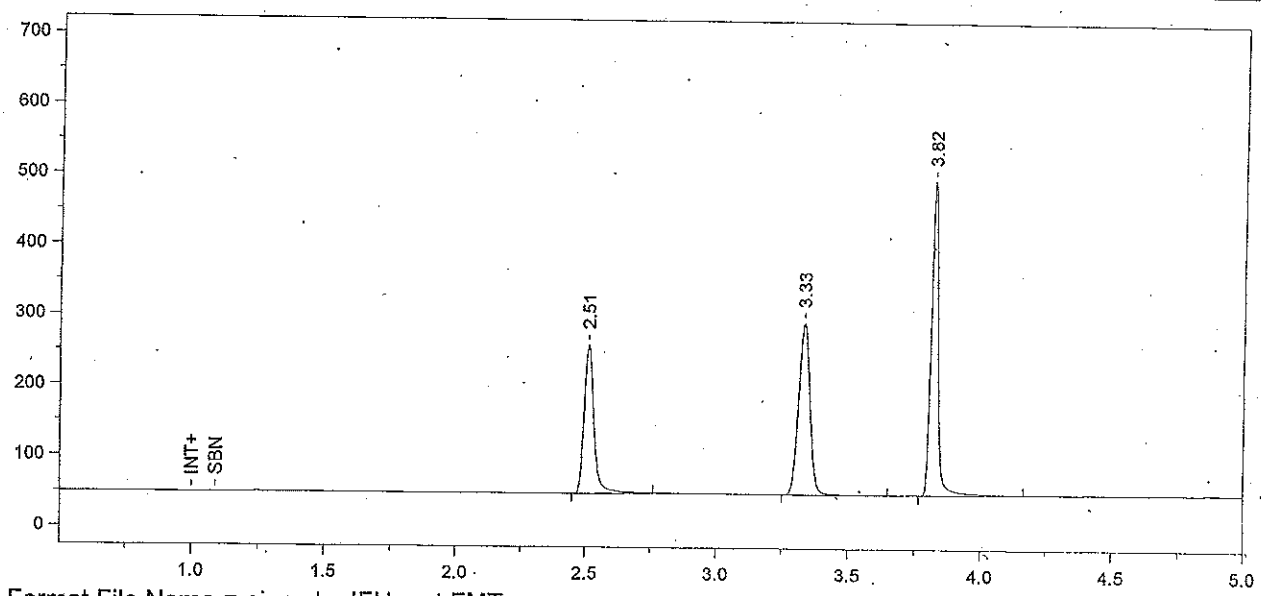
Bound File Name = Sim111711.0012.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - ALB
Date Taken = 11/17/2011 6:37:14 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

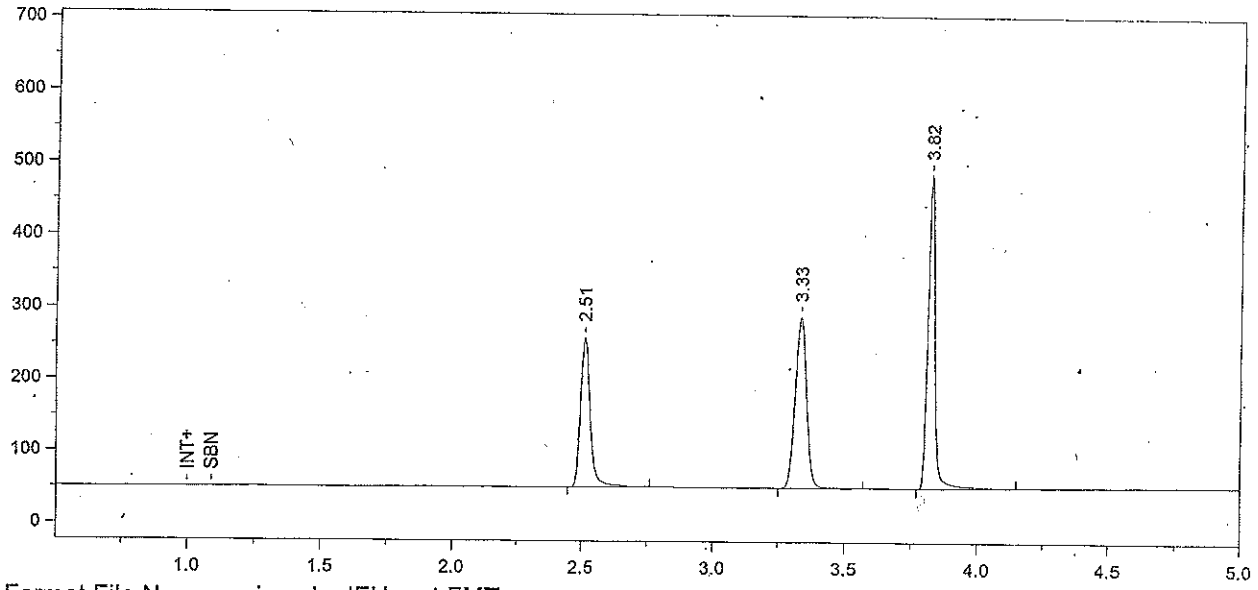
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	557779	0.1222	0.0998
2	3.35	t-Butanol	727978	0.9997	0.8160
3	3.83	n-Propanol	863244	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/17/2011
Today's Time = 6:52:22 PM
Bound File Name = Sim111711.0013.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - ALB
Date Taken = 11/17/2011 6:52:17 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

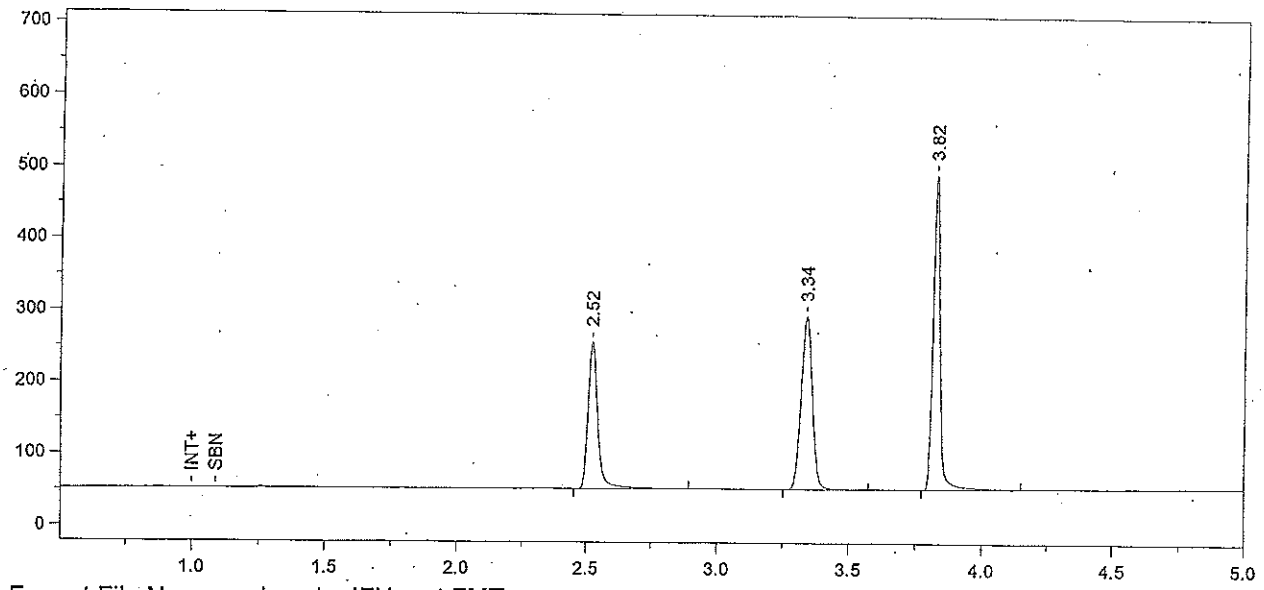
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.51	Ethanol	549977	0.1197	0.0977
2	3.33	t-Butanol	726440	0.9909	0.8087
3	3.82	n-Propanol	869141	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/17/2011
Today's Time = 7:07:25 PM
Bound File Name = Sim111711.0014.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - ALB
Date Taken = 11/17/2011 7:07:19 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

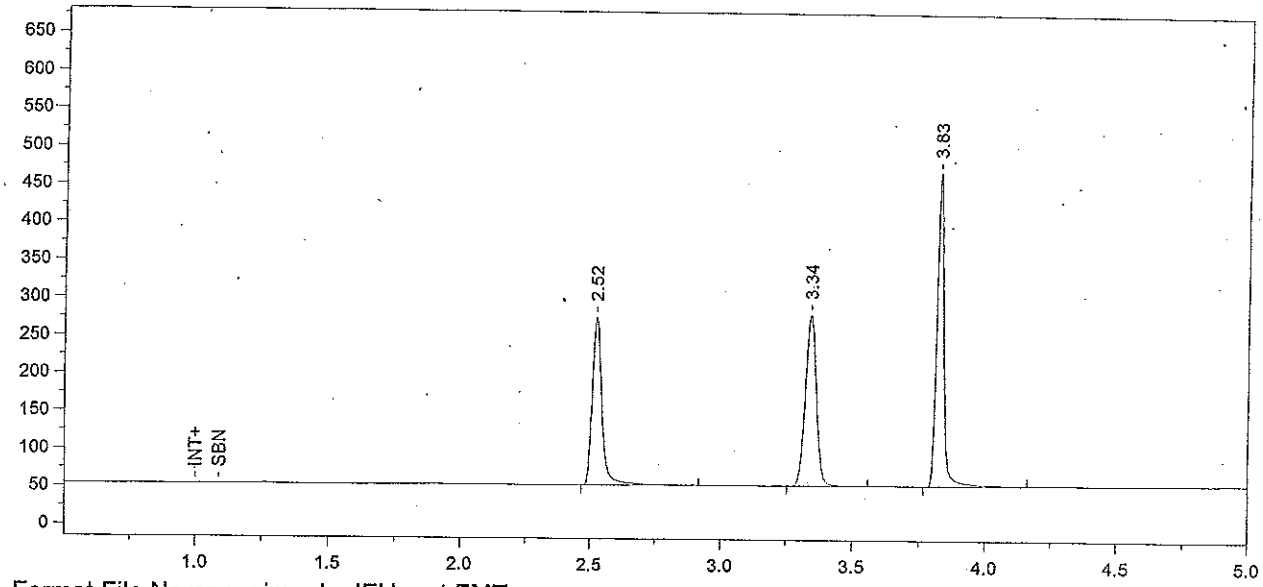
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.51	Ethanol	544901	0.1224	0.0999
2	3.33	t-Butanol	704884	0.9927	0.8102
3	3.82	n-Propanol	841820	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/17/2011
Today's Time = 7:22:24 PM
Bound File Name = Sim111711.0015.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - ALB
Date Taken = 11/17/2011 7:22:20 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.52	Ethanol	542290	0.1212	0.0989
2	3.34	t-Butanol	707455	0.9905	0.8085
3	3.82	n-Propanol	846729	1.0000	0.8162

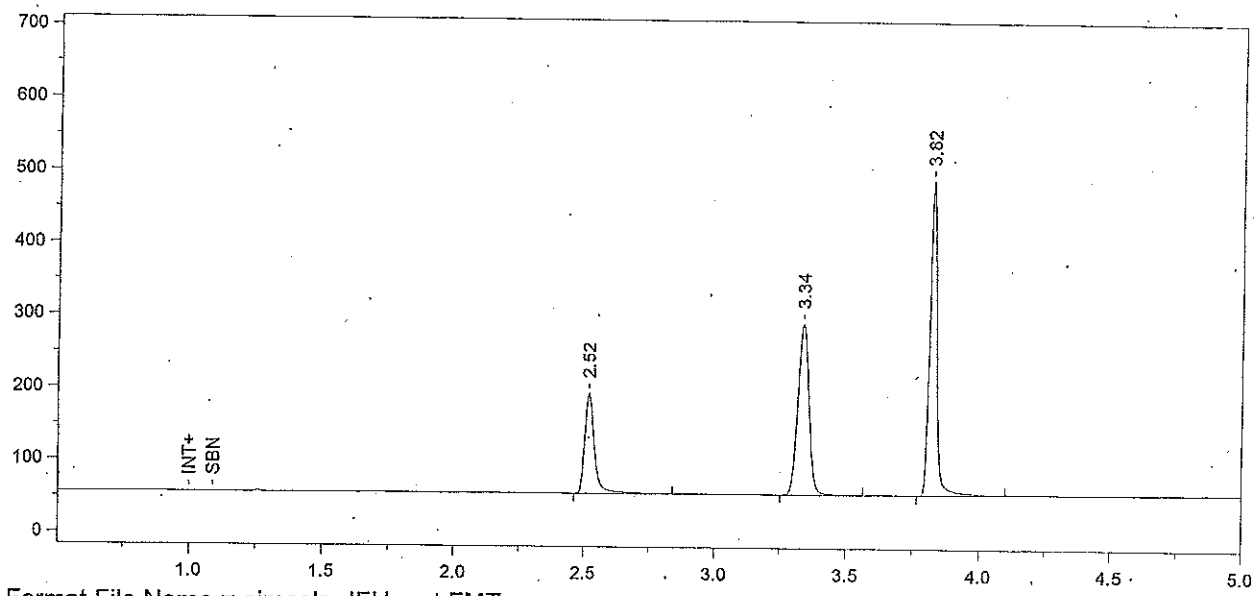


Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/17/2011
Today's Time = 7:37:27 PM
Bound File Name = Sim111711.0016.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - ALB
Date Taken = 11/17/2011 7:37:21 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.52	Ethanol	591020	0.1391	0.1135
2	3.34	t-Butanol	670478	0.9891	0.8073
3	3.83	n-Propanol	803640	1.0000	0.8162

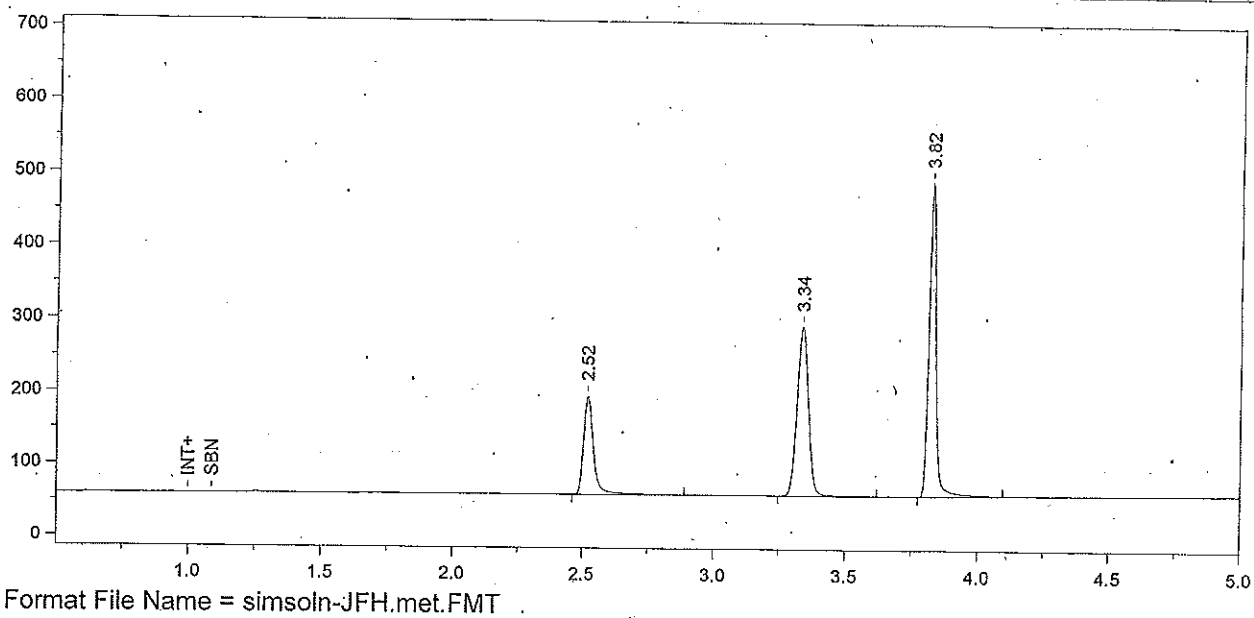
Dropped 73 σ
11-21-11



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/17/2011
Today's Time = 7:52:26 PM
Bound File Name = Sim111711.0017.RAW
Sample Name = CCS B
Date Taken = 11/17/2011 7:52:24 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.52	Ethanol	369358	0.0838	0.0684
2	3.34	t-Butanol	697216	0.9913	0.8091
3	3.82	n-Propanol	833775	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/17/2011
Today's Time = 8:07:26 PM
Bound File Name = Sim111711.0018.RAW
Sample Name = CCS B
Date Taken = 11/17/2011 8:07:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 149

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.52	Ethanol	366156	0.0838	0.0684
2	3.34	t-Butanol	692623	0.9934	0.8108
3	3.82	n-Propanol	826533	1.0000	0.8162

File Name: C:\Methods\SimSolution.cal
Version: 154

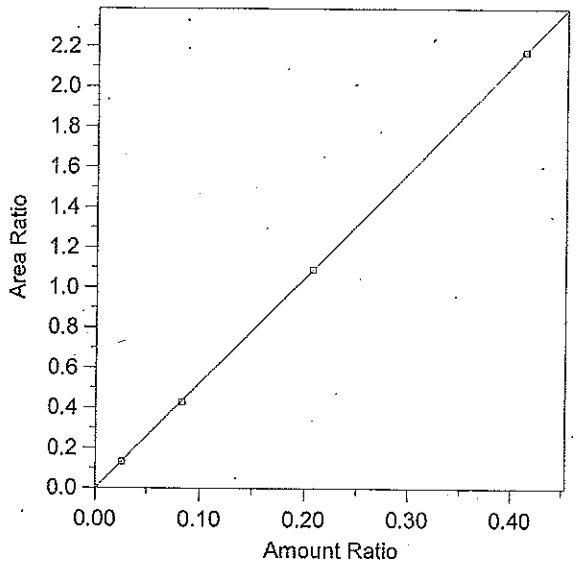
Creator:
Description:
Reason for change:

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

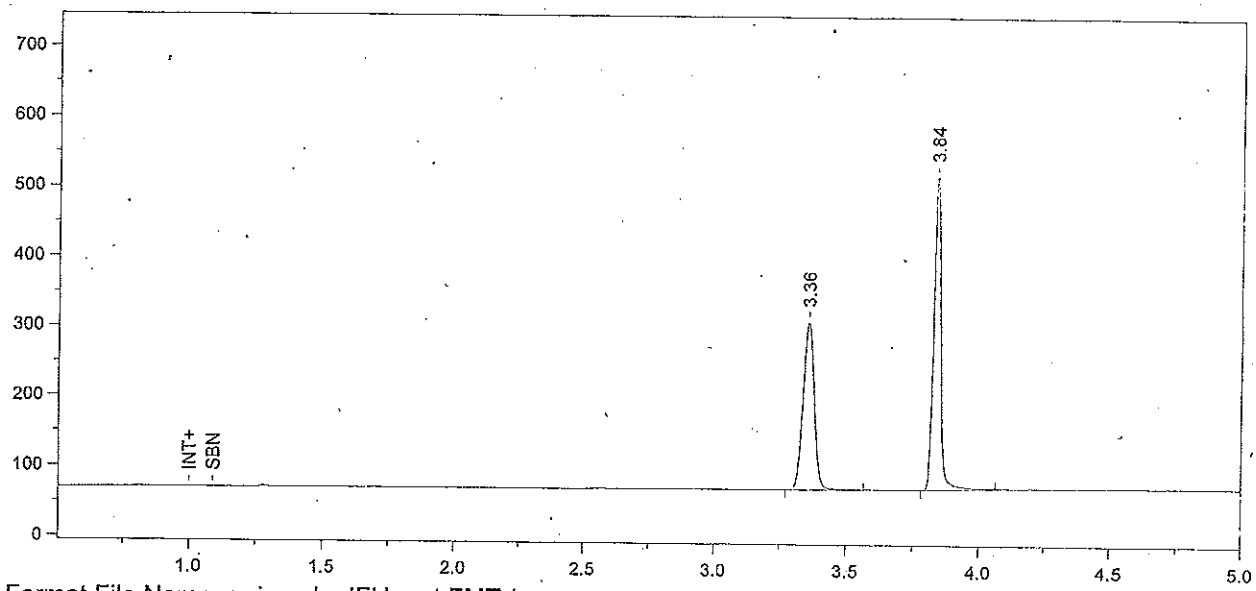
High alarm limit: 0
Low alarm limit: 0
Component constant: 0

Single peak quantification by area

Y = 5.259163 X + 0

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.999983
Average error: 0.898%
Average CF: 4.161709
RSD: 55.924%

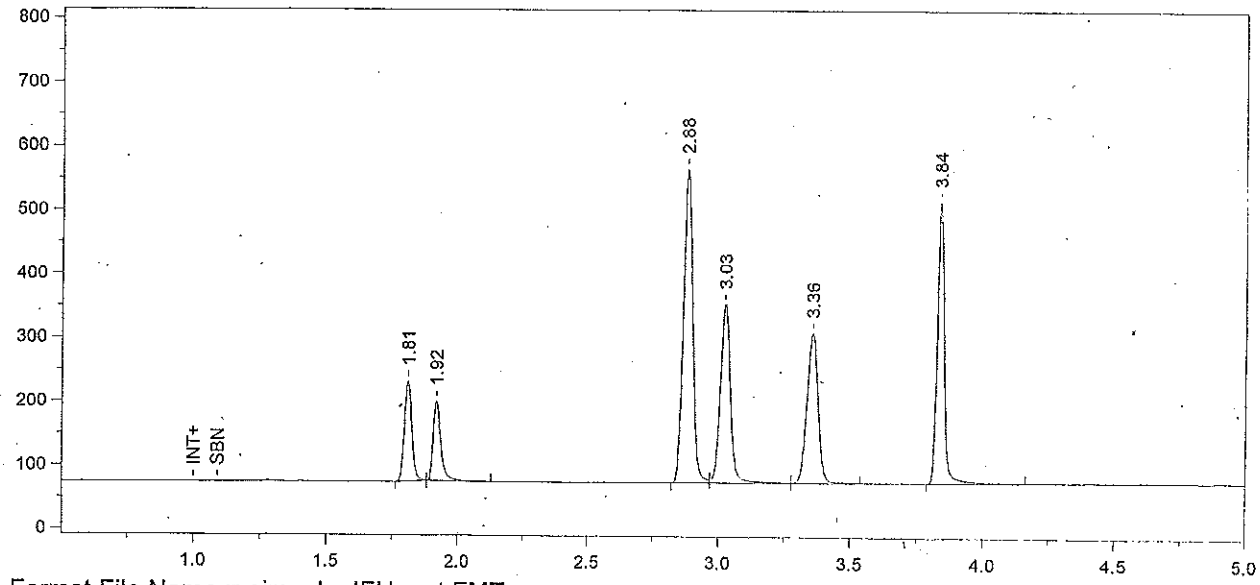
Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	0	(0)	--	0.000	0	0	Manual	4/11/2005 10:03:40 AM
2	0.0257	113987.5	4435312	-3.026	0.0257	0.1310708	C:\Alcohol Data\Sim111611\Sim111611(1).0003.BND	11/18/2011 3:36:08 PM
3	0.0828	374430.8	4522111	-1.351	0.0828	0.4295753	C:\Alcohol Data\Sim111611\Sim111611(1).0004.BND	11/18/2011 3:51:07 PM
4	0.2072	947406.3	4572424	-0.036	0.2072	1.089311	C:\Alcohol Data\Sim111611\Sim111611(1).0005.BND	11/18/2011 4:06:12 PM
5	0.4126	1880877	4558597	0.075	0.4126	2.171561	C:\Alcohol Data\Sim111611\Sim111611(1).0006.BND	11/18/2011 4:21:12 PM



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/21/2011
Today's Time = 7:52:28 AM
Bound File Name = Sim111611(1).0001.RAW
Sample Name = Blank
Date Taken = 11/18/2011 3:06:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

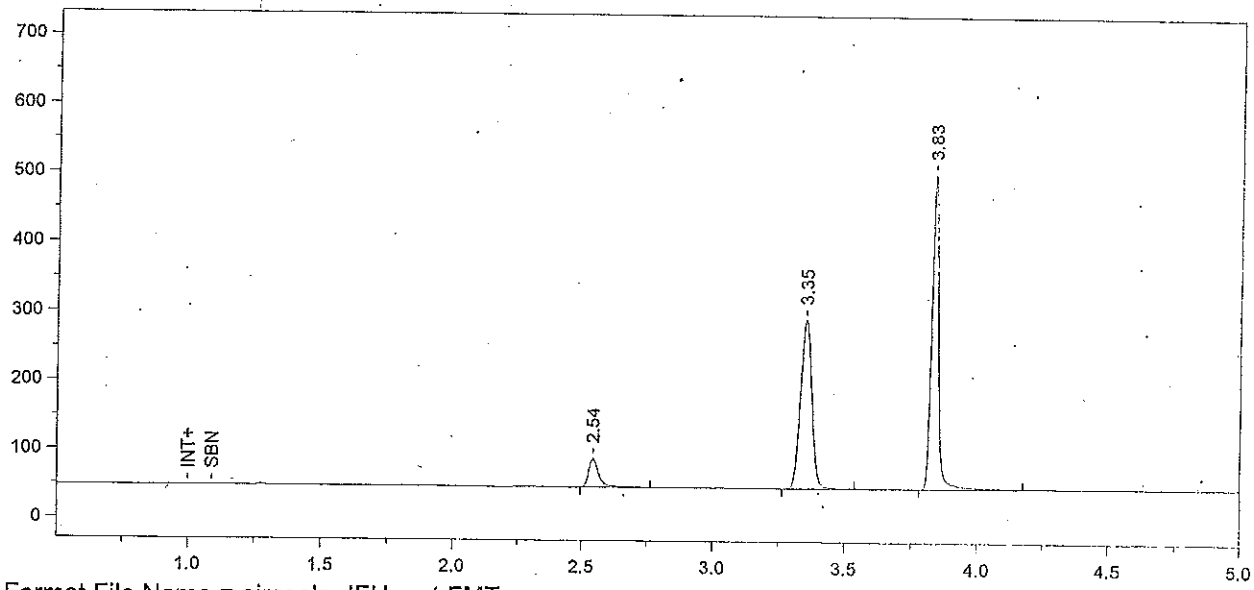
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	3.36	t-Butanol	702404	1.0004	0.8165
2	3.84	n-Propanol	845571	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/21/2011
Today's Time = 7:52:31 AM
Bound File Name = Sim111611(1).0002.RAW
Sample Name = TMX
Date Taken = 11/18/2011 3:20:56 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

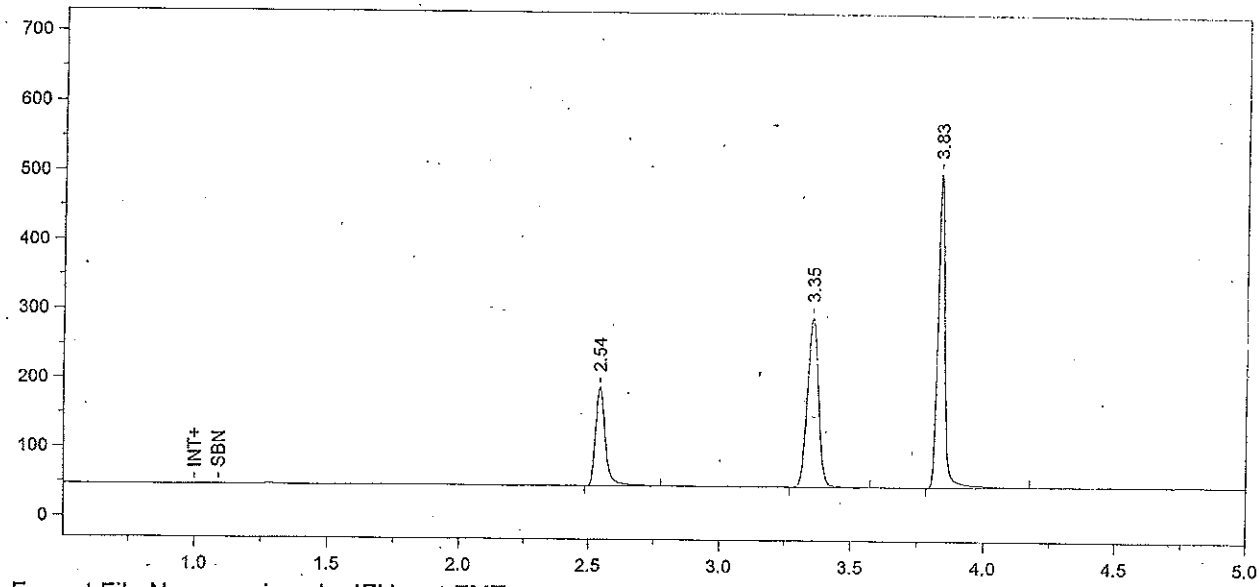
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	1.81	Acetaldehyde	306477	0.0510	0.0416
2	1.92	Methanol	256132	0.1280	0.1045
3	2.88	Acetone	1212662	0.0600	0.0490
4	3.03	Isopropanol	750884	0.0810	0.0661
5	3.36	t-Butanol	686164	0.9967	0.8135
6	3.84	n-Propanol	829043	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/21/2011
Today's Time = 7:52:34 AM
Bound File Name = Sim111611(1).0003.RAW
Sample Name = Std A
Date Taken = 11/18/2011 3:36:03 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

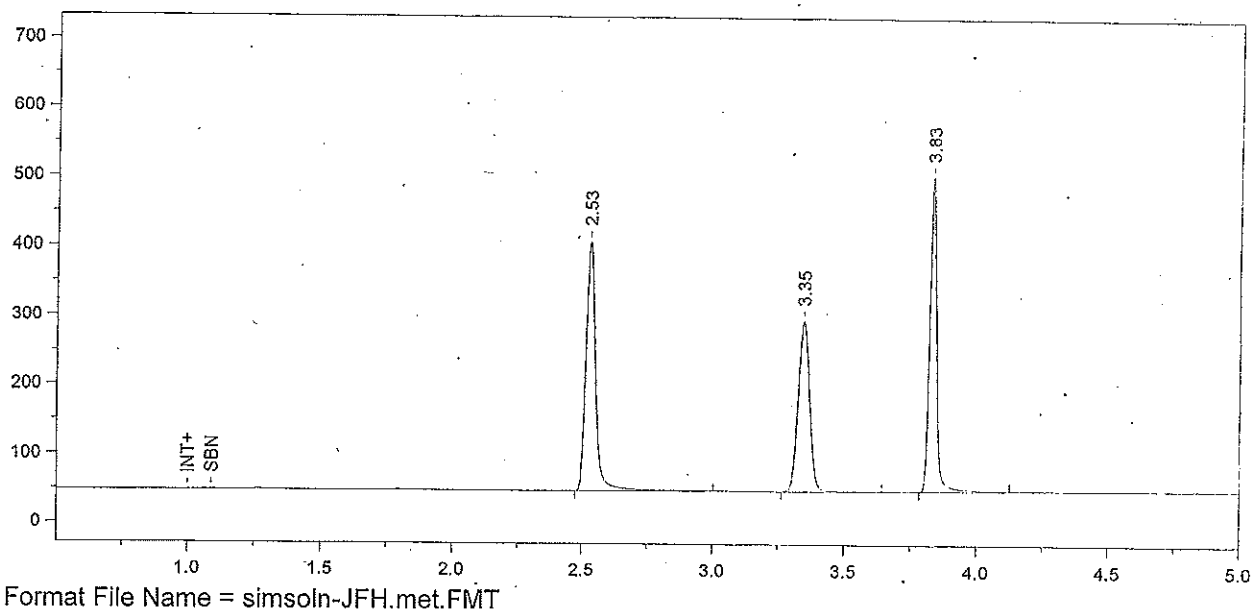
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	113988	0.0249	0.0203
2	3.35	t-Butanol	721521	0.9991	0.8155
3	3.83	n-Propanol	869664	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/21/2011
Today's Time = 7:52:38 AM
Bound File Name = Sim111611(1).0004.RAW
Sample Name = Std B
Date Taken = 11/18/2011 3:51:04 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

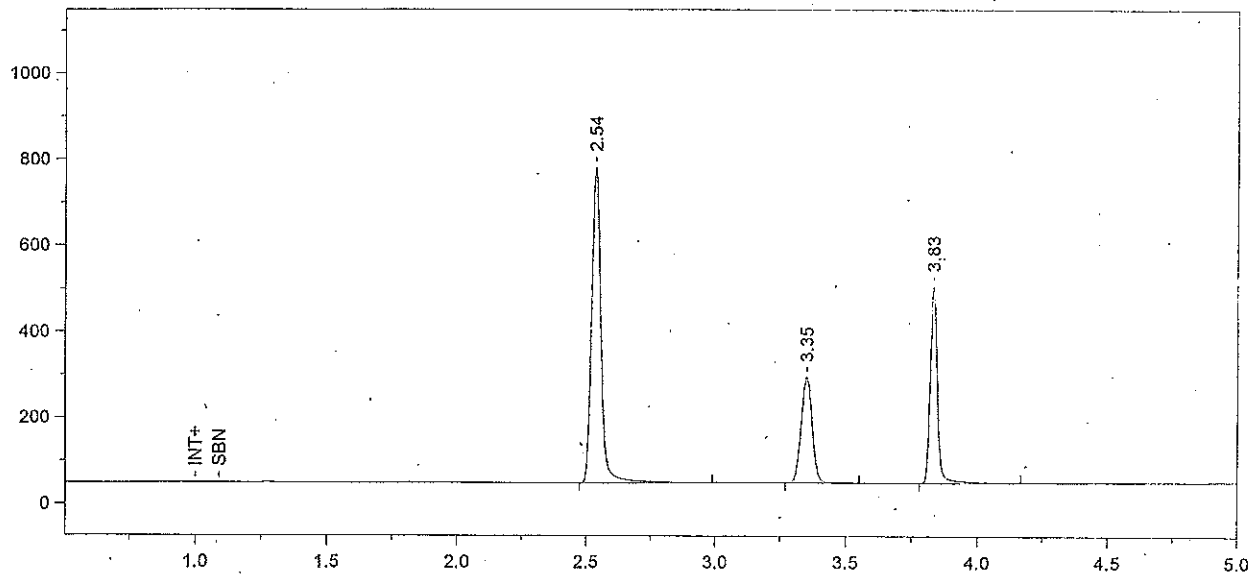
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	374431	0.0817	0.0667
2	3.35	t-Butanol	720462	0.9954	0.8125
3	3.83	n-Propanol	871630	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/21/2011
Today's Time = 7:52:42 AM
Bound File Name = Sim111611(1).0005.RAW
Sample Name = Std C
Date Taken = 11/18/2011 4:06:05 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

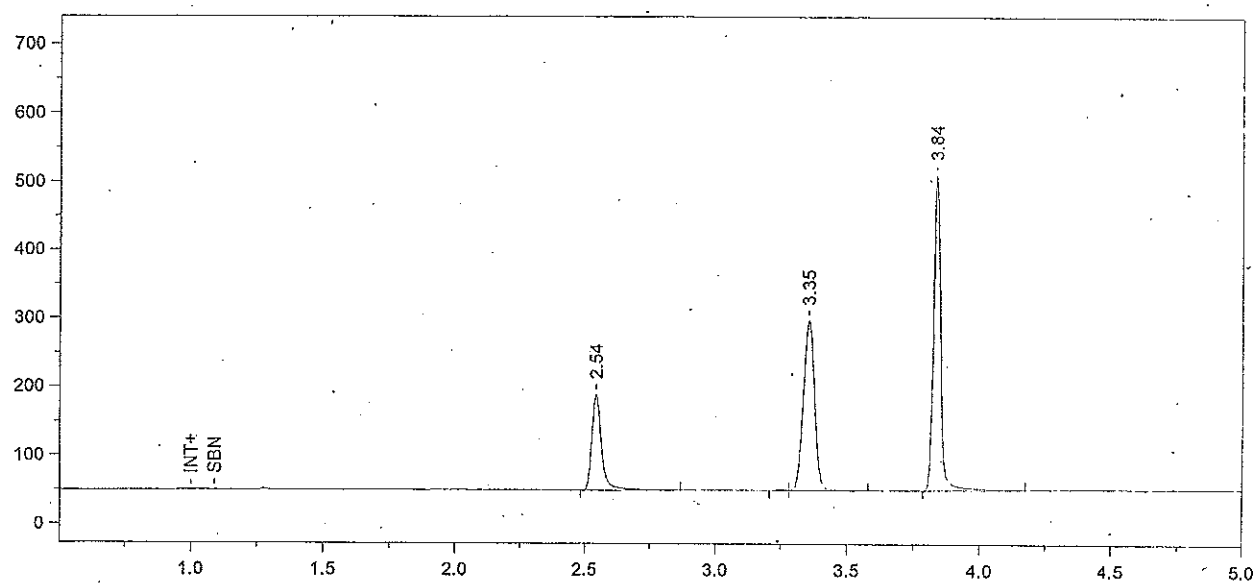
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.53	Ethanol	947406	0.2071	0.1691
2	3.35	t-Butanol	727051	1.0067	0.8217
3	3.83	n-Propanol	869730	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/21/2011
Today's Time = 7:52:45 AM
Bound File Name = Sim111611(1).0006.RAW
Sample Name = Std D
Date Taken = 11/18/2011 4:21:05 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

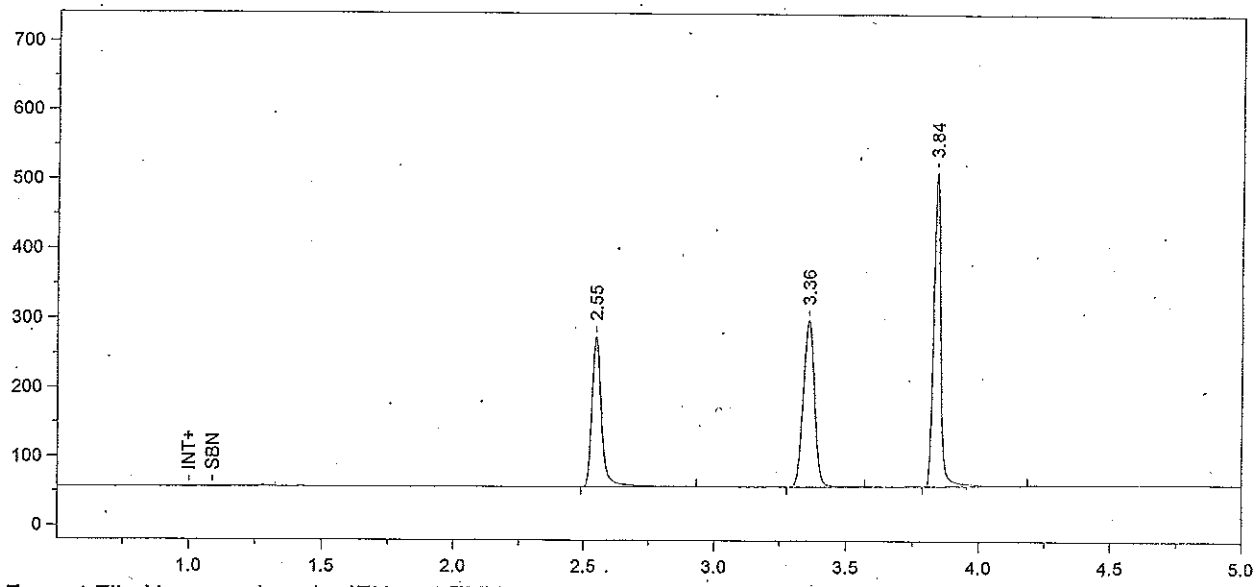
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	1880877	0.4129	0.3370
2	3.35	t-Butanol	720666	1.0020	0.8178
3	3.83	n-Propanol	866141	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/21/2011
Today's Time = 7:52:48 AM
Bound File Name = Sim111611(1).0007.RAW
Sample Name = AQ QC 0.80
Date Taken = 11/18/2011 4:32:42 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

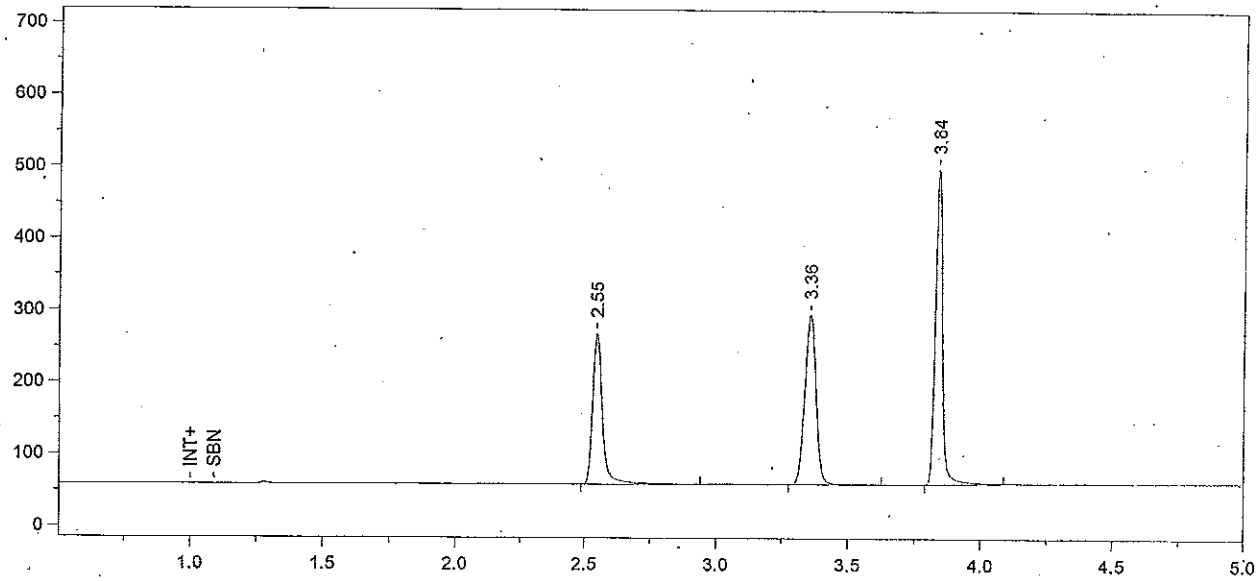
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	370623	0.0805	0.0657
3	3.35	t-Butanol	726017	0.9988	0.8152
4	3.84	n-Propanol	875347	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011 Today's Time = 5:14:27 PM
Bound File Name = Sim111611(1).0008.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - SRM
Date Taken = 11/18/2011 5:14:20 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 154

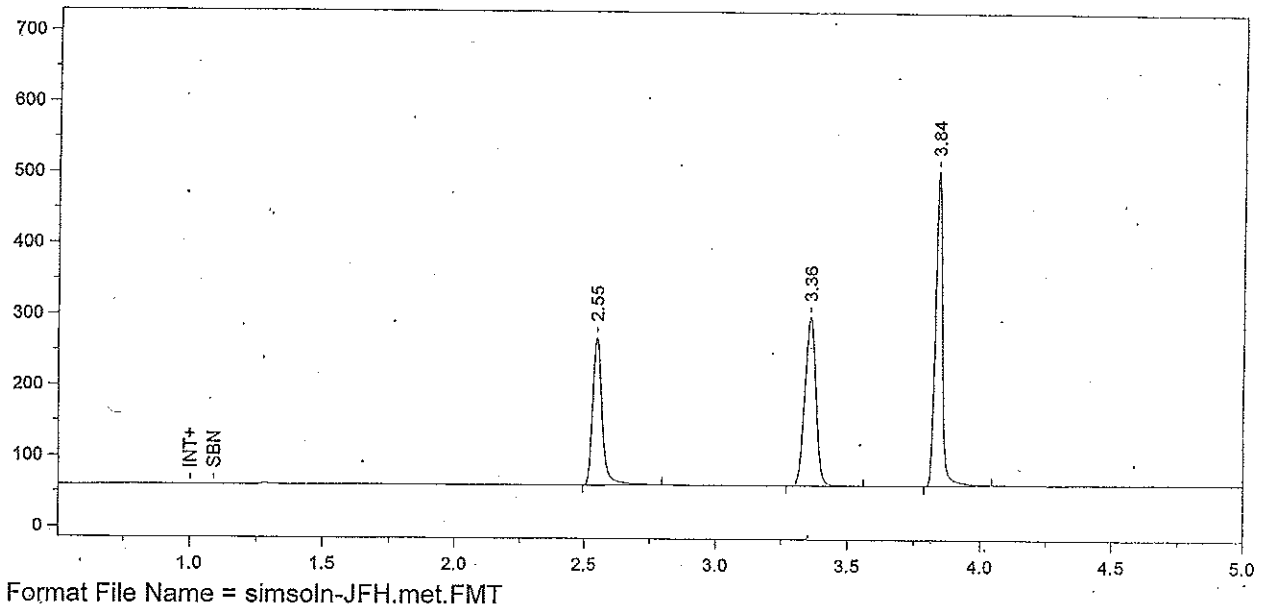
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	571800	0.1260	0.1028
2	3.36	t-Butanol	705490	0.9846	0.8036
3	3.84	n-Propanol	862914	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011
Today's Time = 5:29:14 PM
Bound File Name = Sim111611(1).0009.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - SRM
Date Taken = 11/18/2011 5:29:09 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

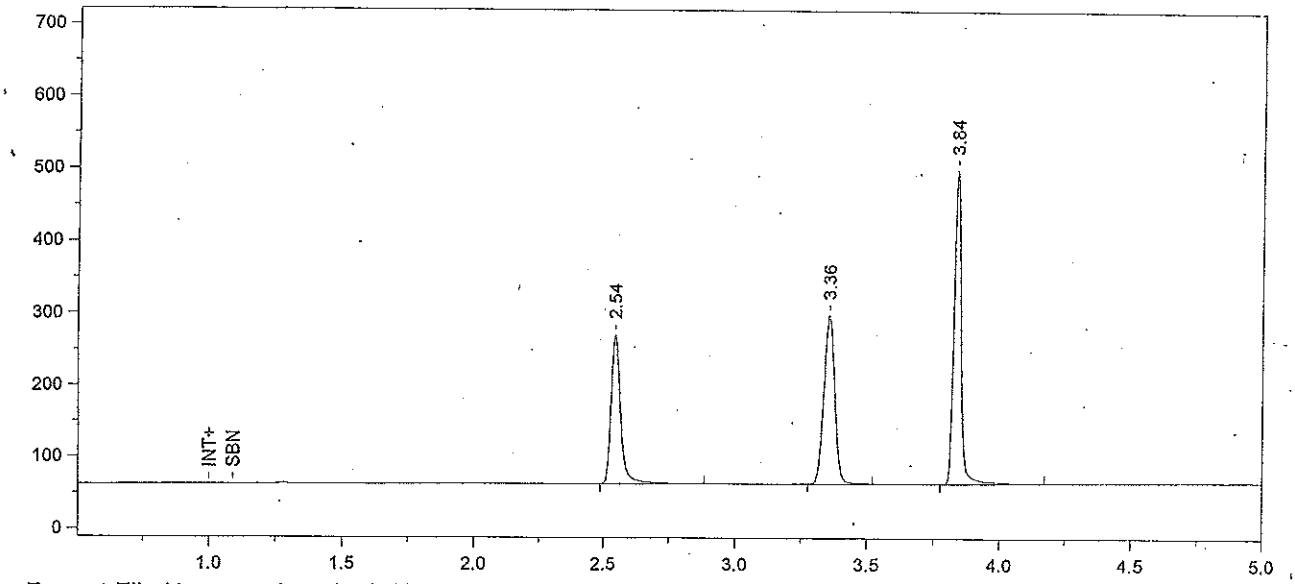
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	553124	0.1259	0.1027
2	3.36	t-Butanol	696246	1.0034	0.8190
3	3.84	n-Propanol	835632	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011
Today's Time = 5:44:19 PM
Bound File Name = Sim111611(1).0010.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - SRM
Date Taken = 11/18/2011 5:44:17 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

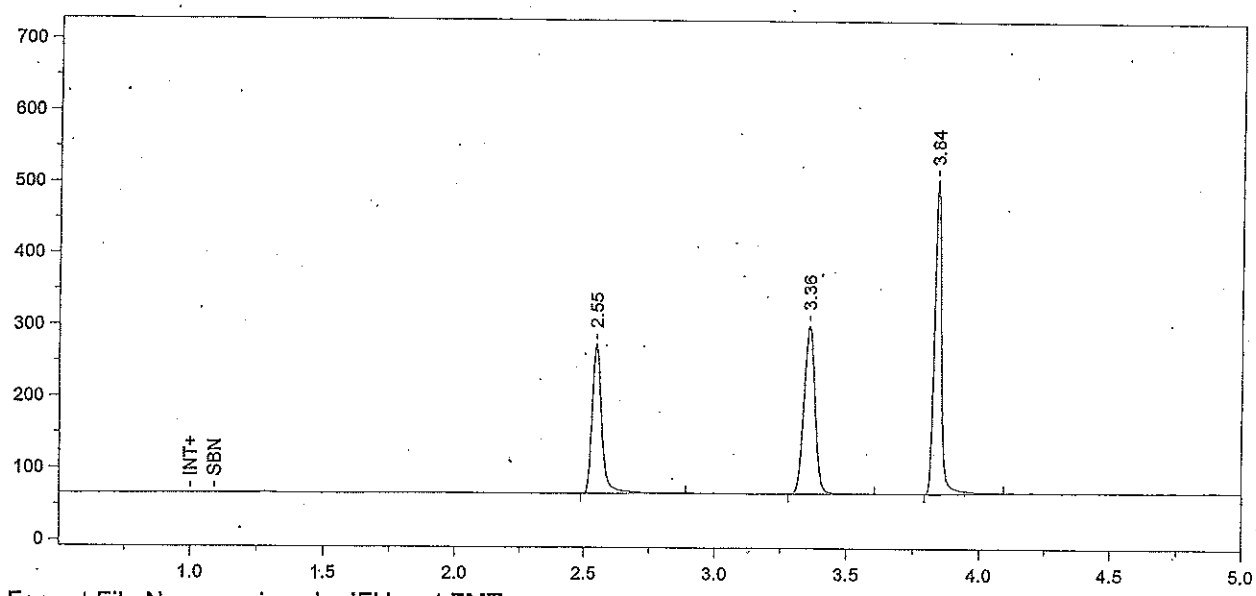
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	541010	0.1236	0.1009
2	3.36	t-Butanol	694702	1.0052	0.8205
3	3.84	n-Propanol	832270	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011
Today's Time = 5:59:25 PM
Bound File Name = Sim111611(1).0011.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - SRM
Date Taken = 11/18/2011 5:59:17 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

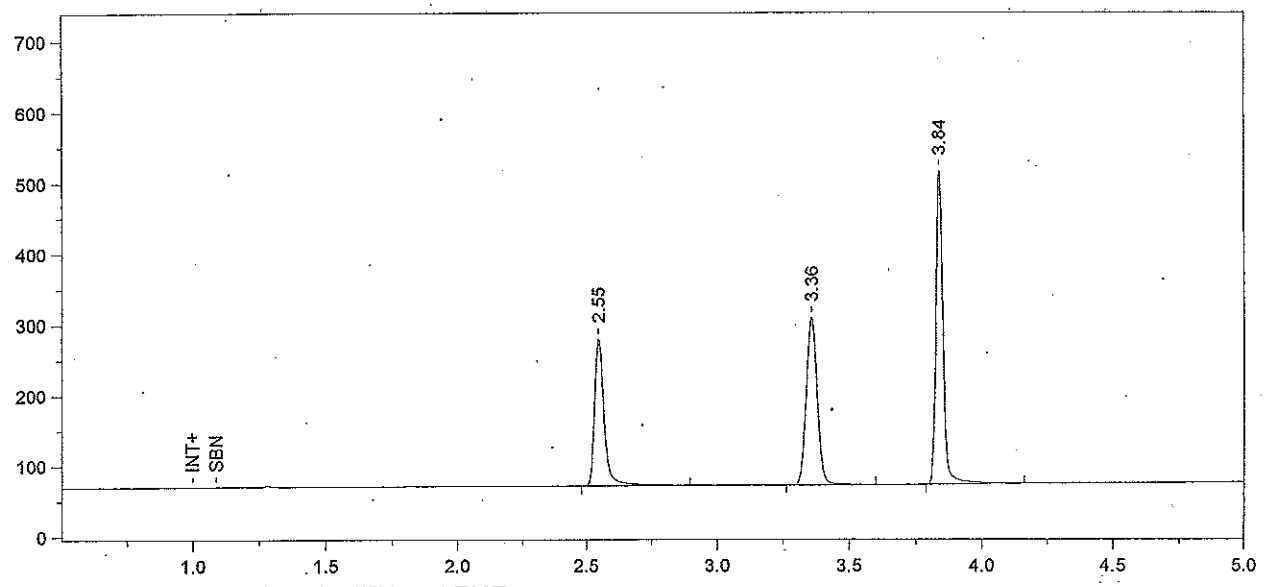
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	544015	0.1238	0.1011
2	3.36	t-Butanol	686765	0.9901	0.8081
3	3.84	n-Propanol	835299	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011
Today's Time = 6:14:22 PM
Bound File Name = Sim111611(1).0012.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - SRM
Date Taken = 11/18/2011 6:14:19 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

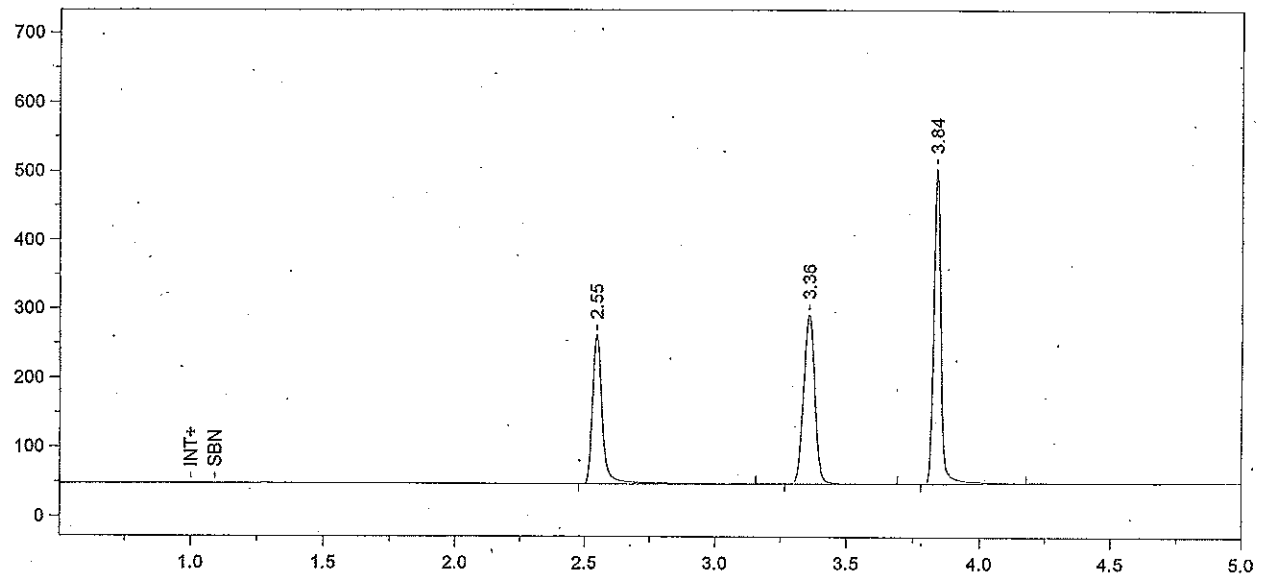
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	547697	0.1256	0.1025
2	3.36	t-Butanol	686479	0.9970	0.8137
3	3.84	n-Propanol	829209	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011
Today's Time = 6:29:21 PM
Bound File Name = Sim111611(1).0013.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - SRM
Date Taken = 11/18/2011 6:29:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

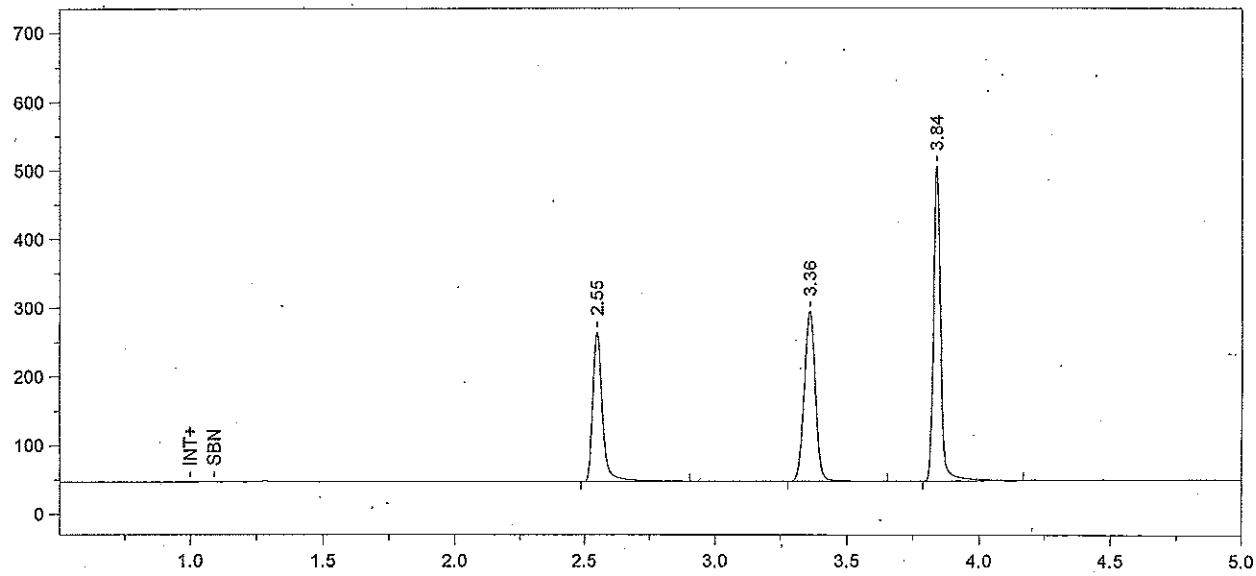
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	546376	0.1238	0.1010
2	3.36	t-Butanol	695879	0.9983	0.8148
3	3.84	n-Propanol	839484	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011
Today's Time = 6:44:30 PM
Bound File Name = Sim111611(1).0014.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - SRM
Date Taken = 11/18/2011 6:44:25 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

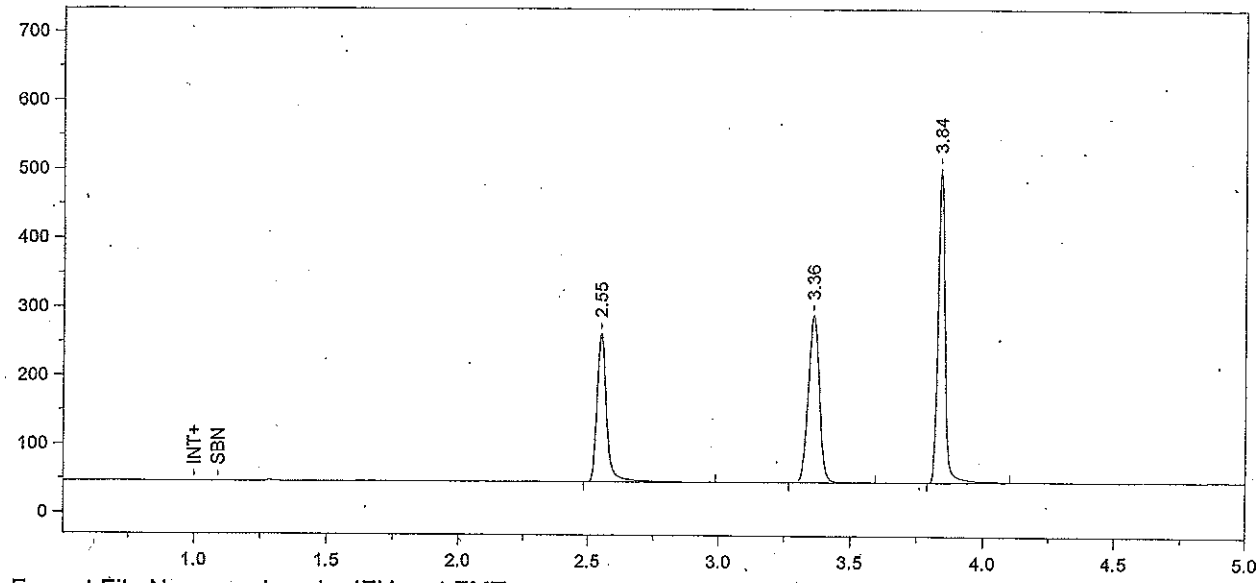
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	578155	0.1260	0.1029
2	3.36	t-Butanol	723917	0.9995	0.8158
3	3.84	n-Propanol	872233	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011 Today's Time = 6:59:31 PM
Bound File Name = Sim111611(1).0015.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - MCS
Date Taken = 11/18/2011 6:59:26 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 154

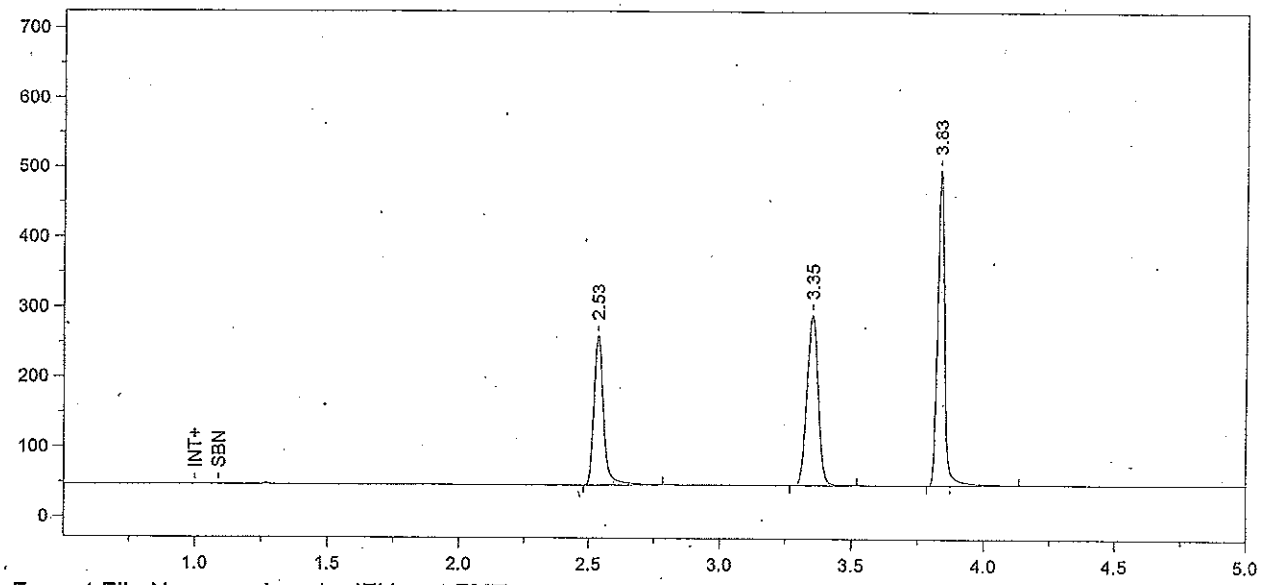
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	572527	0.1249	0.1020
2	3.36	t-Butanol	725491	1.0027	0.8184
3	3.84	n-Propanol	871301	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011
Today's Time = 7:14:30 PM
Bound File Name = Sim111611(1).0016.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - MCS
Date Taken = 11/18/2011 7:14:22 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

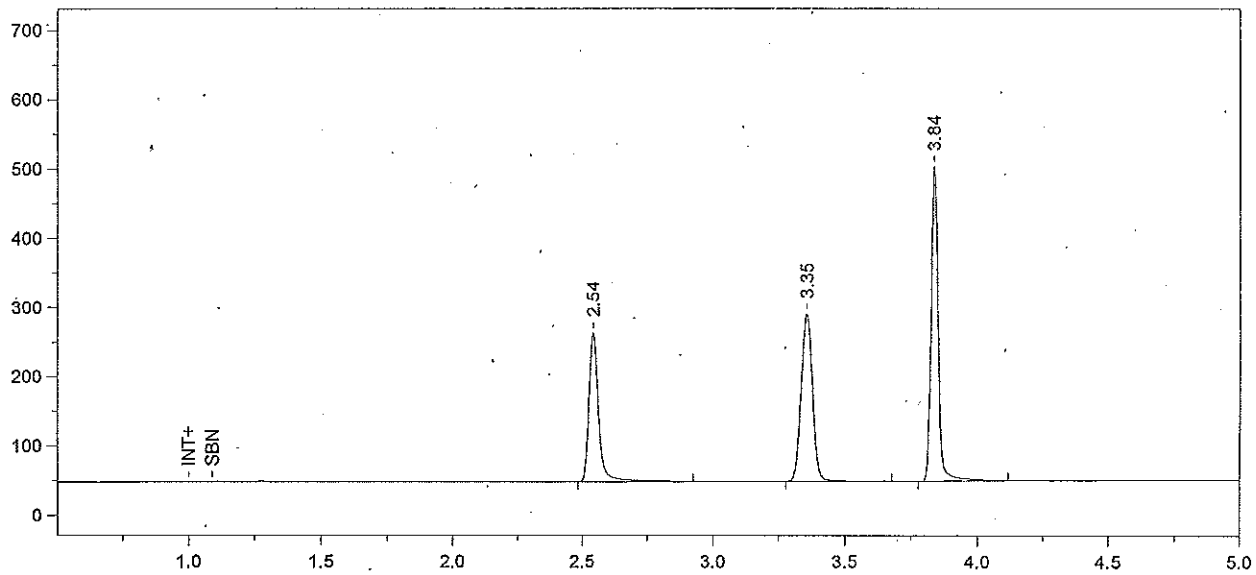
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	573341	0.1267	0.1034
2	3.36	t-Butanol	714645	1.0005	0.8166
3	3.84	n-Propanol	860209	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011
Today's Time = 7:29:27 PM
Bound File Name = Sim111611(1).0017.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - MCS
Date Taken = 11/18/2011 7:29:23 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.53	Ethanol	556057	0.1226	0.1000
2	3.35	t-Butanol	715341	0.9986	0.8151
3	3.83	n-Propanol	862648	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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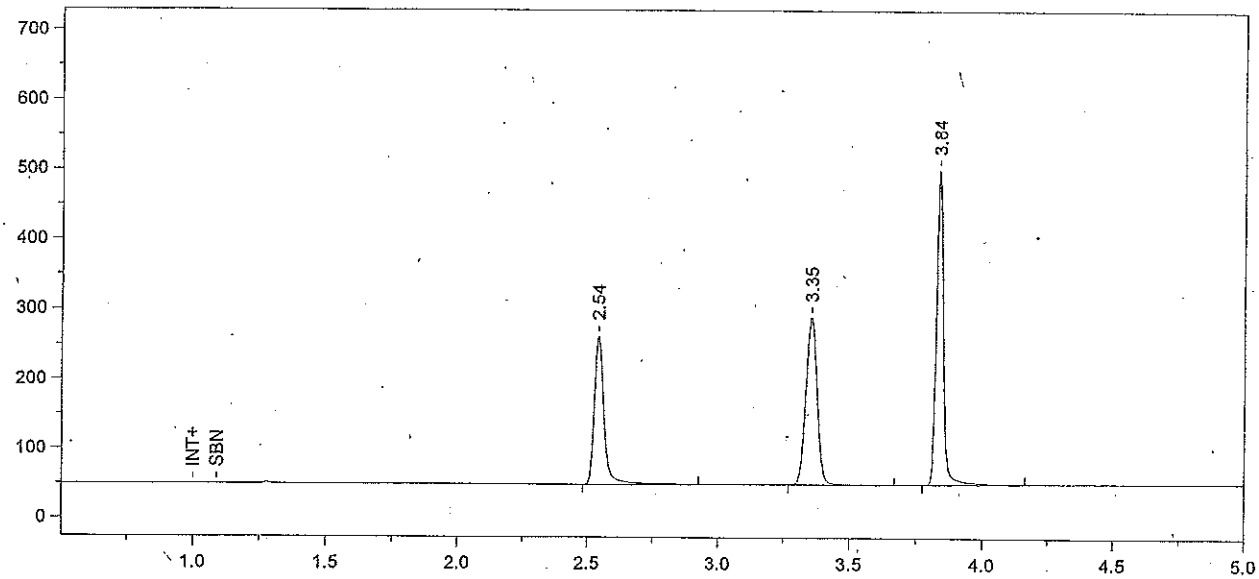
Bound File Name = Sim111611(1).0018.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - MCS
Date Taken = 11/18/2011 7:44:24 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 154

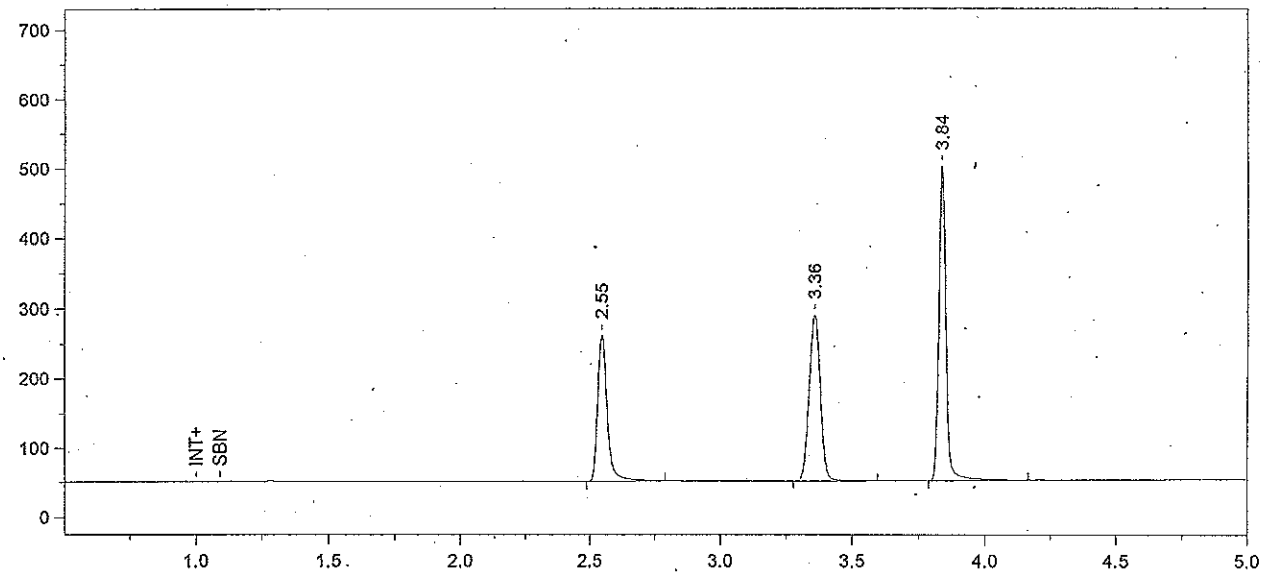
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	568710	0.1260	0.1028
2	3.35	t-Butanol	712464	0.9998	0.8160
3	3.84	n-Propanol	858187	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011
Today's Time = 7:59:30 PM
Bound File Name = Sim111611(1).0019.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - MCS
Date Taken = 11/18/2011 7:59:26 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

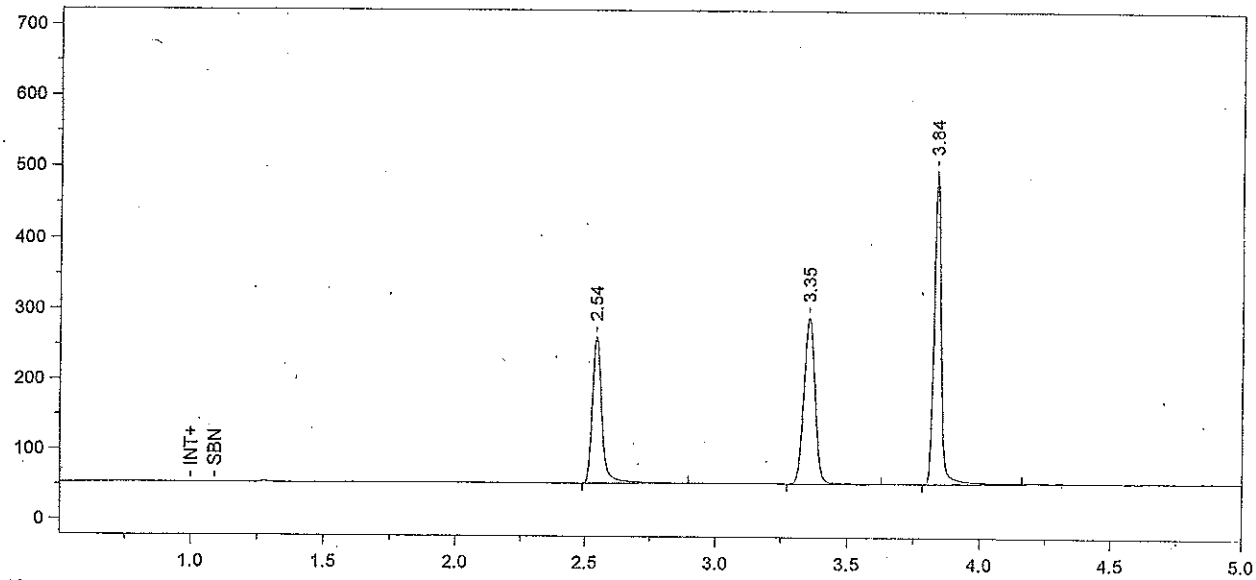
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	564085	0.1254	0.1023
2	3.35	t-Butanol	708770	0.9977	0.8143
3	3.84	n-Propanol	855502	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011 Today's Time = 8:14:33 PM
Bound File Name = Sim111611(1).0020.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - MCS
Date Taken = 11/18/2011 8:14:28 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal Calibration Version = 154

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.55	Ethanol	550823	0.1231	0.1005
2	3.36	t-Butanol	700788	0.9918	0.8095
3	3.84	n-Propanol	850922	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

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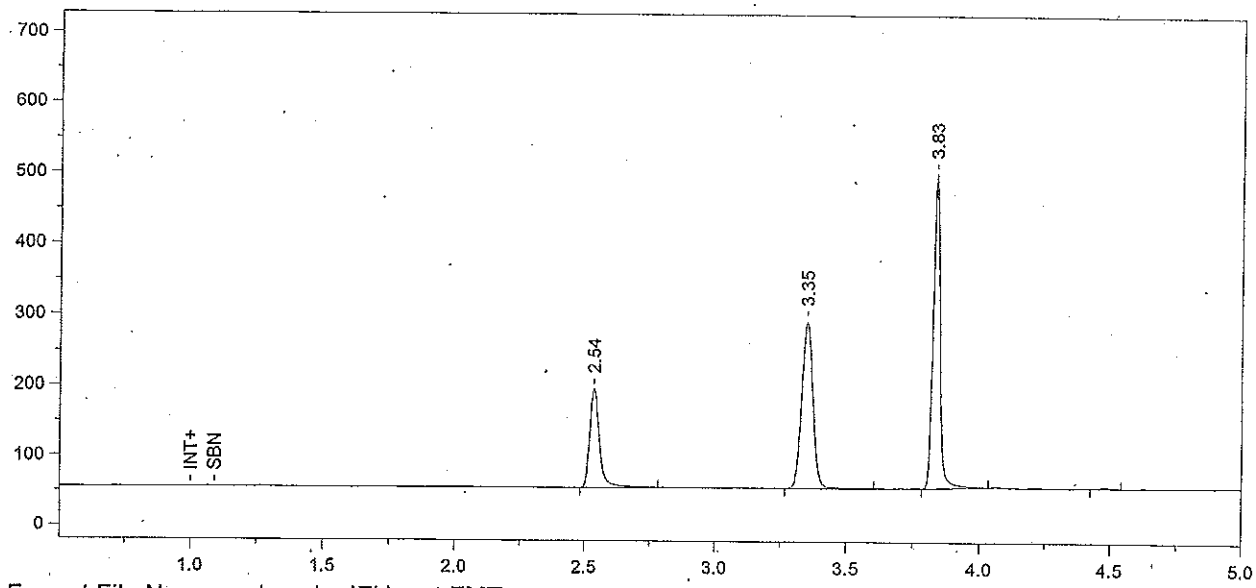
Today's Time = 8:29:38 PM
Bound File Name = Sim111611(1).0021.RAW
Sample Name = 0.1 Ext. Std. Sim Sol - MCS
Date Taken = 11/18/2011 8:29:30 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

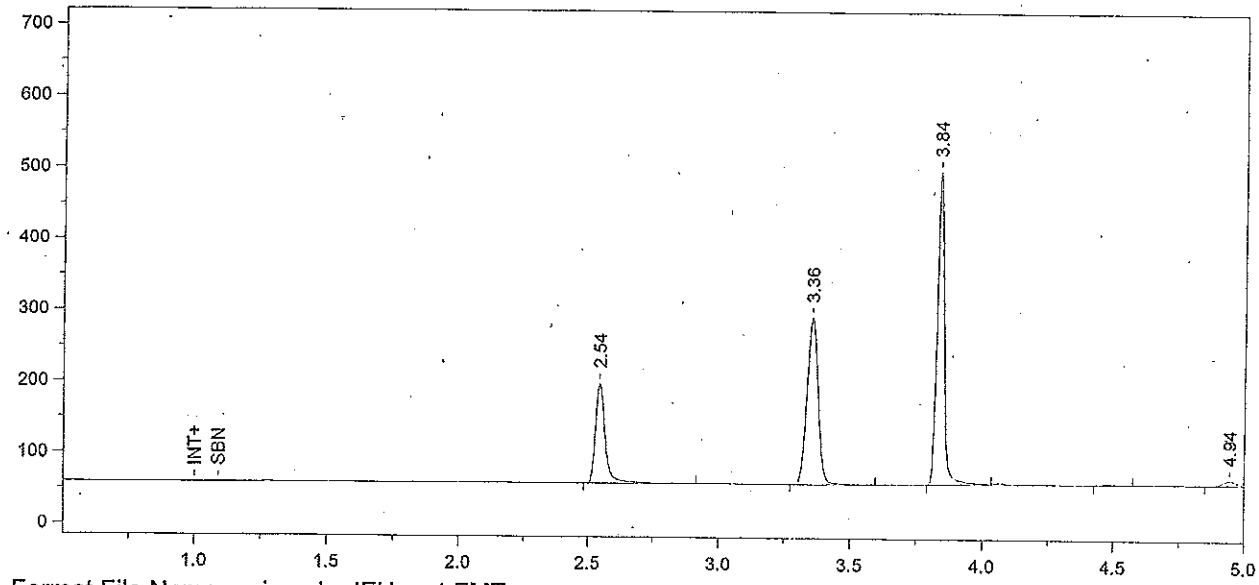
Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	550885	0.1247	0.1018
2	3.35	t-Butanol	696200	0.9979	0.8145
3	3.84	n-Propanol	840177	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011
Today's Time = 8:44:36 PM
Bound File Name = Sim111611(1).0022.RAW
Sample Name = CCS B
Date Taken = 11/18/2011 8:44:32 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	371373	0.0840	0.0686
2	3.35	t-Butanol	698889	1.0013	0.8173
3	3.83	n-Propanol	840526	1.0000	0.8162



Format File Name = simsoln-JFH.met.FMT

Today's Date = 11/18/2011
Today's Time = 8:59:38 PM
Bound File Name = Sim111611(1).0023.RAW
Sample Name = CCS B
Date Taken = 11/18/2011 8:59:33 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SimSolution.cal
Calibration Version = 154

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
1	2.54	Ethanol	372233	0.0857	0.0700
2	3.36	t-Butanol	686140	1.0007	0.8168
3	3.84	n-Propanol	825743	1.0000	0.8162