VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster Certification Solution

On 5/30/2013, an ethanol solution was prepared by Amanda Bolduc for use as a DataMaster Certification solution. The solution was prepared per standard laboratory practice and assigned the lot number 13-11-160 and an expiration date of 5/30/2014.

On 5/30/2013 and 5/31/2013, the solution was analyzed against calibration VFL05302013 and SIM05312013. 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 0.160 g/210L simulated breath ethanol concentration and approved for use as a DataMaster Certification solution.

Dated at Waterbury, Vermont on Friday, June 07, 2013.

Amanda Bolduc

0.1 Certification Solution 2L
Lot # 13-11-160
Prepared 05/30/2013 by ALB
Exp 5/30/2014

ALB Cal VFL05302013
ALB/RLM Vials
Analyzed on 5/30/2013

0.1571 alb
0.1637
0.1599
0.1629
0.1594
0.1624
0.1588
0.1599 rlm
0.1579
0.1600
0.1584
0.1598
0.1573
0.1604

Ave. = 0.1599
Std Dev. = 0.0020
Range = 0.1571 - 0.1637

RLM CAL SIM05312013
RLM/ALB Vials
Analyzed on 5/31/2013

0.1586 rlm
0.1618
0.1589
0.1627
0.1604
0.1626
0.1598
0.1626 alb
0.1577
0.1638
0.1595
0.1639
0.1597
0.1628

Ave. = 0.1611
Std Dev. = 0.0021
Range = 0.1577 - 0.1639

Total Values from Both Runs

Average	**Mean**
0.1571	0.1571
0.1637	0.1573
0.1599	0.1577
0.1629	0.1579
0.1594	0.1584
0.1624	0.1586
0.1588	0.1588
0.1599	0.1589
0.1579	0.1594
0.1600	0.1595
0.1584	0.1597
0.1598	0.1598
0.1573	
0.1604	0.1599
0.1586	
0.1618	0.1600
0.1589	0.1604
0.1627	
0.1604	0.1618
0.1626	0.1624
0.1598	0.1626
0.1626	
0.1577	0.1627
0.1638	0.1628
0.1595	0.1629
0.1639	0.1637
0.1597	0.1638
0.1628	0.1639

Ave. =	0.1605
Avg Std Dev. =	0.0021
Mean =	0.1604
Mean Std Dev. =	0.0022
Range =	0.1571 - 0.1639
RPD =	4.23%

6/10/2013

Headspace Alcohol Analysis Standards Coversheet

6/6/2013

Analyst: AWB Date: 5/30/13

Calibration Standards:

Lot ID: ES-04152013 Preparation Date: 04/15/2013 Expiration Date: 7/15/2013

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.005	0.022	0.084	0.204	0.402	0.084
Acceptance Range (± 10%)	0.006	0.024	0.092	0.224	0.443	0.092
	0.004	0.020	0.075	0.183	0.362	0.075

Control Sample:

Sample	Source	Lot number	Target Value	Acceptance Range	
Aqueous	Cerilliant	FN021111-03	0.080	0.072	0.088

Calibration and Control Sample Data:

Vial No.	Sample Identification		Result	In Range?	Comments
1	Blank		<0.005	(Y) N	
2	Compound Retention Times:			N/A	
		Acetaldehyde	1.89		
		Methanol	1.99		
		Ethanol	2.63		
		Acetone	3.04		
		Isopropanol	3.17		
		T- butanol	3.61		
		n-propanol	4.42		
3	Standard A		0.005	(Y) N	
4	Standard B		0.021	(Y) N	
5	Standard C		0.085	(Y) N	
6	Standard D		0.200	(Y) N	
7	Standard E		0.404	(Y) N	
AWB 6/6/13	~~8~~10	Aqueous QC	0.0786	(Y) N	
	~~9~~11	Aqueous QC	0.0816	(Y) N	$\bar{x}$ = 0.080 100% recovery

13-11-160 2 AWB

File Name: C:\Methods\VFL05302013.CAL
Version: 7

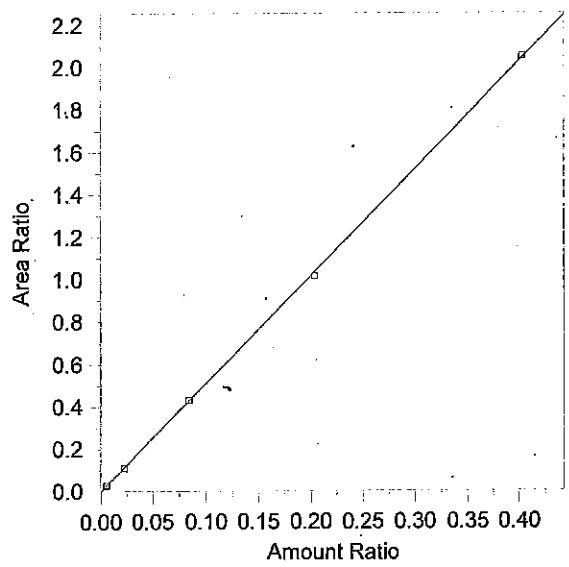
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 1500
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:	2.634 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 = 5.070457 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998281
Average error:	1.727%
Average CF:	5.01336
RSD:	1.852%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.087)	(85146)	--	--	0.087	85146	Manual	8/8/2012 7:53:22 AM
2	0.0055	4536.637	824843.1	-1.917	0.0055	2.735298E-02	C:\Alcohol Data\VFL05302013\VFL05302013.0003.BND	5/30/2013 3:32:47 PM
3	0.0221	16290.3	737117.6	-3.366	0.0221	0.1082857	C:\Alcohol Data\VFL05302013\VFL05302013.0004.BND	5/30/2013 3:50:59 PM
4	0.084	63310.09	753691.6	1.064	0.084	0.4304519	C:\Alcohol Data\VFL05302013\VFL05302013.0005.BND	5/30/2013 4:04:56 PM
5	0.2037	155490.5	763330.9	-1.850	0.2037	1.013741	C:\Alcohol Data\VFL05302013\VFL05302013.0006.BND	5/30/2013 4:22:26 PM
6	0.4026	304487.6	756303.1	0.438	0.4026	2.050304	C:\Alcohol Data\VFL05302013\VFL05302013.0007.BND	5/30/2013 4:35:39 PM

13-11-160 3 0.2 B

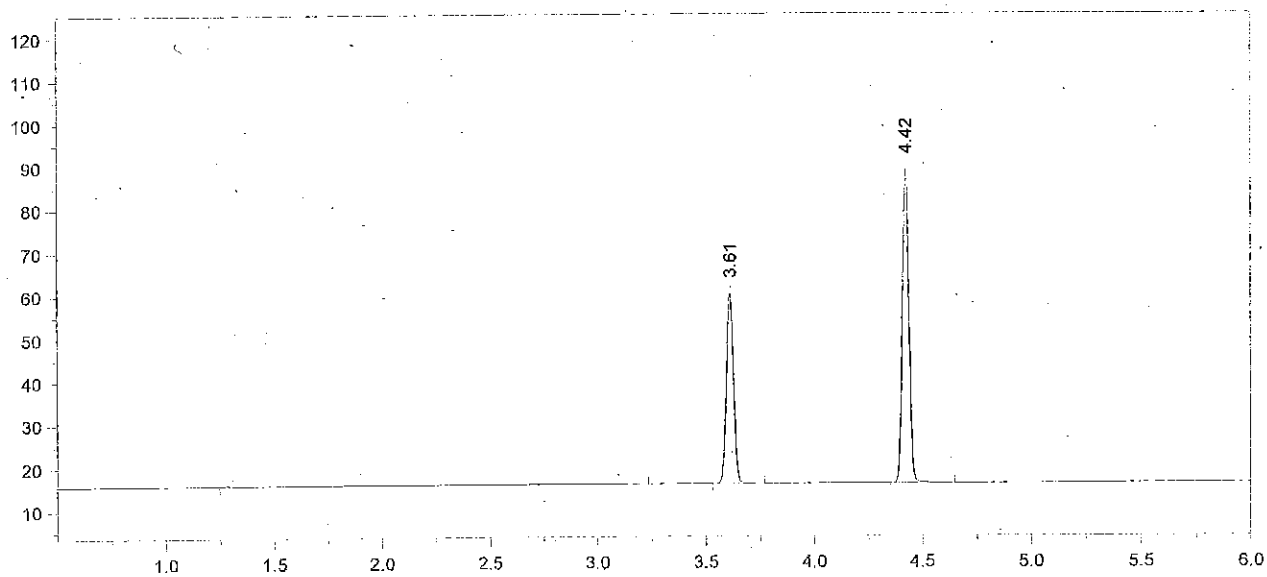
File Name = C:\Alcohol Data\VFL05302013\VFL05302013.SEQ
Version = 2
File Date = 5/30/2013 2:25:47 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL05302013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL05302013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL05302013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL05302013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL05302013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL05302013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL05302013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL05302013.0008.raw	Blood Alc temp VFL.MET	WB QC	1.00	1.00
9	VFL05302013.0009.raw	Blood Alc temp VFL.MET	WB QC	1.00	1.00
10	VFL05302013.0010.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
11	VFL05302013.0011.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
12	VFL05302013.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL05302013.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL05302013.0014.raw	Blood Alc temp VFL.MET	V13-1204 A1-1	1.00	1.00
15	VFL05302013.0015.raw	Blood Alc temp VFL.MET	V13-1204 A1-1	1.00	1.00
16	VFL05302013.0016.raw	simsoln.met	0.1 ALB	1.00	1.00
17	VFL05302013.0017.raw	simsoln.met	0.1 ALB	1.00	1.00
18	VFL05302013.0018.raw	simsoln.met	0.1 ALB	1.00	1.00
19	VFL05302013.0019.raw	simsoln.met	0.1 ALB	1.00	1.00
20	VFL05302013.0020.raw	simsoln.met	0.1 ALB	1.00	1.00
21	VFL05302013.0021.raw	simsoln.met	0.1 ALB	1.00	1.00
22	VFL05302013.0022.raw	simsoln.met	0.1 ALB	1.00	1.00
23	VFL05302013.0023.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
24	VFL05302013.0024.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
25	VFL05302013.0025.raw	simsoln.met	0.1 RLM	1.00	1.00
26	VFL05302013.0026.raw	simsoln.met	0.1 RLM	1.00	1.00
27	VFL05302013.0027.raw	simsoln.met	0.1 RLM	1.00	1.00
28	VFL05302013.0028.raw	simsoln.met	0.1 RLM	1.00	1.00
29	VFL05302013.0029.raw	simsoln.met	0.1 RLM	1.00	1.00
30	VFL05302013.0030.raw	simsoln.met	0.1 RLM	1.00	1.00
31	VFL05302013.0031.raw	simsoln.met	0.1 RLM	1.00	1.00
32	VFL05302013.0032.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
33	VFL05302013.0033.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
34	VFL05302013.0034.raw	simsoln.met	0.16 ALB	1.00	1.00
35	VFL05302013.0035.raw	simsoln.met	0.16 ALB	1.00	1.00
36	VFL05302013.0036.raw	simsoln.met	0.16 ALB	1.00	1.00
37	VFL05302013.0037.raw	simsoln.met	0.16 ALB	1.00	1.00
38	VFL05302013.0038.raw	simsoln.met	0.16 ALB	1.00	1.00
39	VFL05302013.0039.raw	simsoln.met	0.16 ALB	1.00	1.00
40	VFL05302013.0040.raw	simsoln.met	0.16 ALB	1.00	1.00
41	VFL05302013.0041.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
42	VFL05302013.0042.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
43	VFL05302013.0043.raw	simsoln.met	0.16 RLM	1.00	1.00
44	VFL05302013.0044.raw	simsoln.met	0.16 RLM	1.00	1.00
45	VFL05302013.0045.raw	simsoln.met	0.16 RLM	1.00	1.00
46	VFL05302013.0046.raw	simsoln.met	0.16 RLM	1.00	1.00
47	VFL05302013.0047.raw	simsoln.met	0.16 RLM	1.00	1.00
48	VFL05302013.0048.raw	simsoln.met	0.16 RLM	1.00	1.00
49	VFL05302013.0049.raw	simsoln.met	0.16 RLM	1.00	1.00
50	VFL05302013.0050.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
51	VFL05302013.0051.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

Evidentiary Samples not included 6/4/13 dcB

different [x] sim soln not included dcB 6/4/13

13-11-160 4 dcB



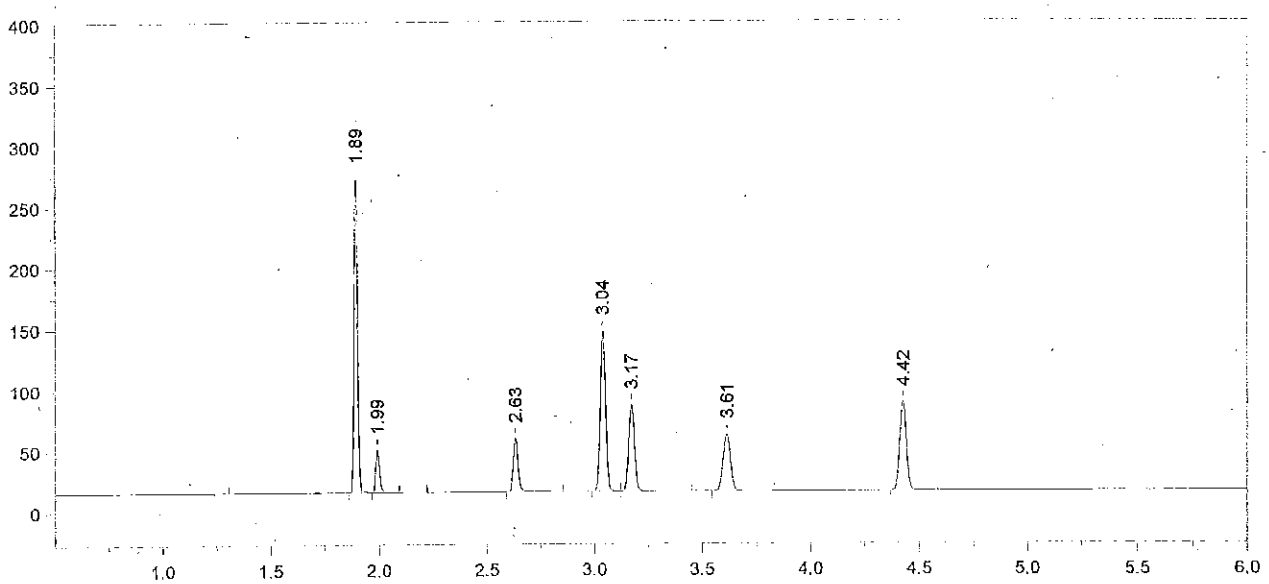
Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 7:16:15 AM
Bound File Name = VFL05302013.0001.RAW
Sample Name = Blank
Date Taken = 5/30/2013 3:01:25 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.61	t-Butanol	101229	0.9625
4	4.42	n-Propanol	153371	1.0000

13-11-160 5 ALB

Chrom Perfect Chromatogram Report

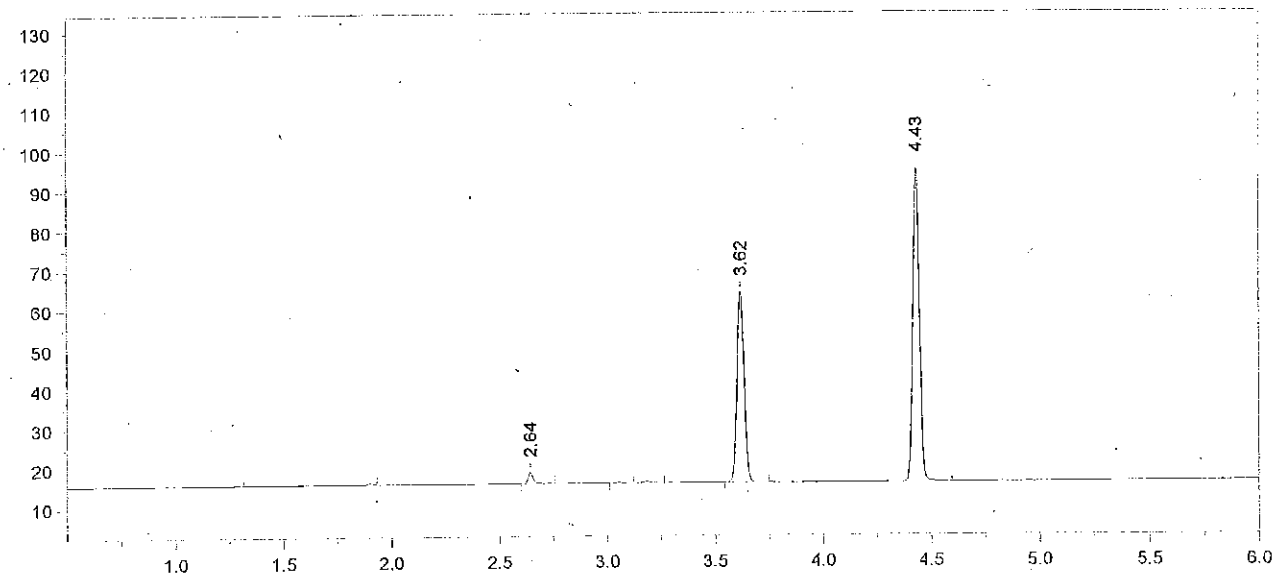


Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 7:16:24 AM
Bound File Name = VFL05302013.0002.RAW
Sample Name = TMX
Date Taken = 5/30/2013 3:19:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.89	Acetaldehyde	287952	0.0720
3	1.99	Methanol	41259	0.1210
4	2.63	Ethanol	67047	0.0864
5	3.04	Acetone	221451	0.0690
6	3.17	Isopropanol	131617	0.0830
7	3.61	t-Butanol	107330	1.0221
8	4.42	n-Propanol	153125	1.0000

13-11-160 6 [illegible]

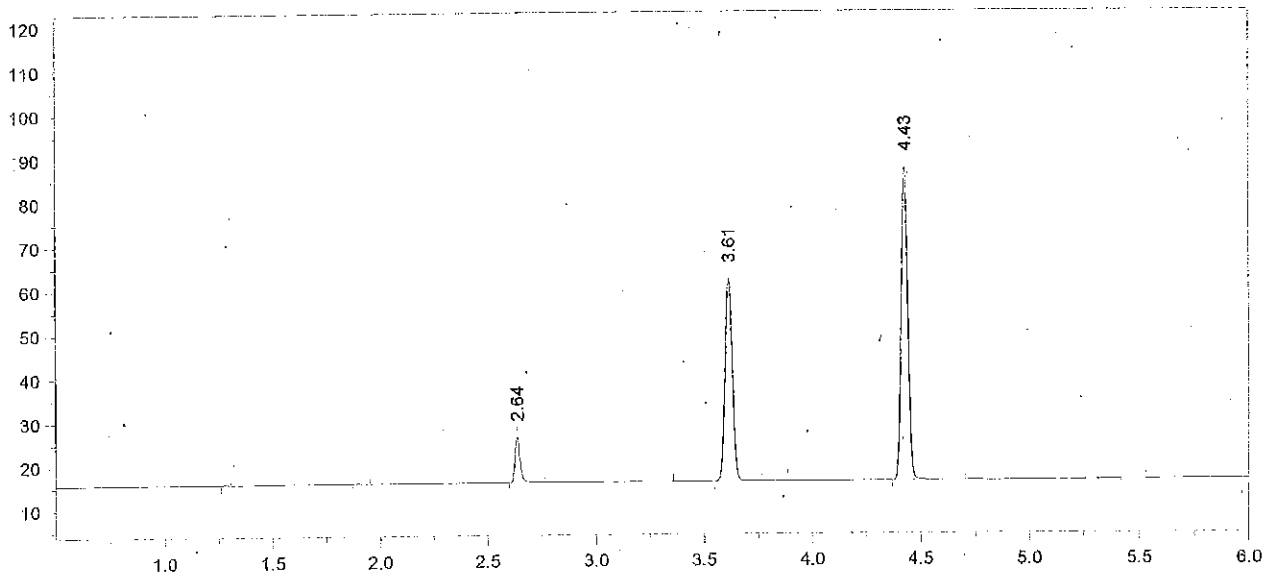


Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 7:16:29 AM
Bound File Name = VFL05302013.0003.RAW
Sample Name = STD A
Date Taken = 5/30/2013 3:32:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	04537	0.0054
6	3.62	t-Butanol	110595	0.9724
7	4.43	n-Propanol	165855	1.0000

13-11-160 7 Ale B

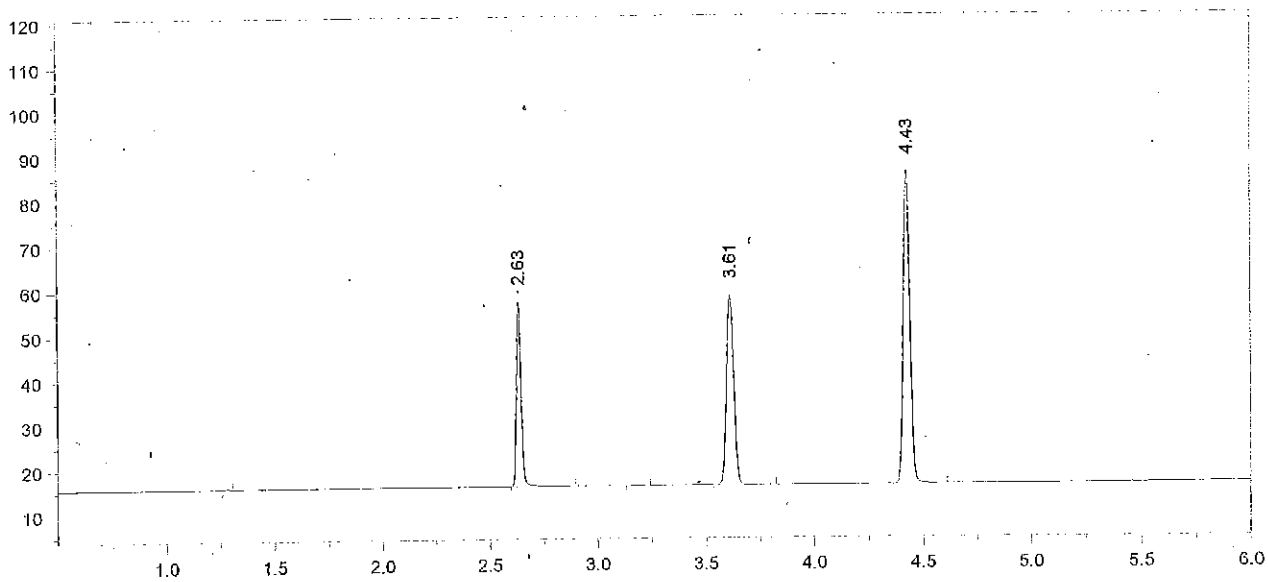


Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 7:16:35 AM
Bound File Name = VFL05302013.0004.RAW
Sample Name = STD B
Date Taken = 5/30/2013 3:50:54 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	16290	0.0214
5	3.61	t-Butanol	106251	1.0299
6	4.43	n-Propanol	150438	1.0000

13-11-160 8

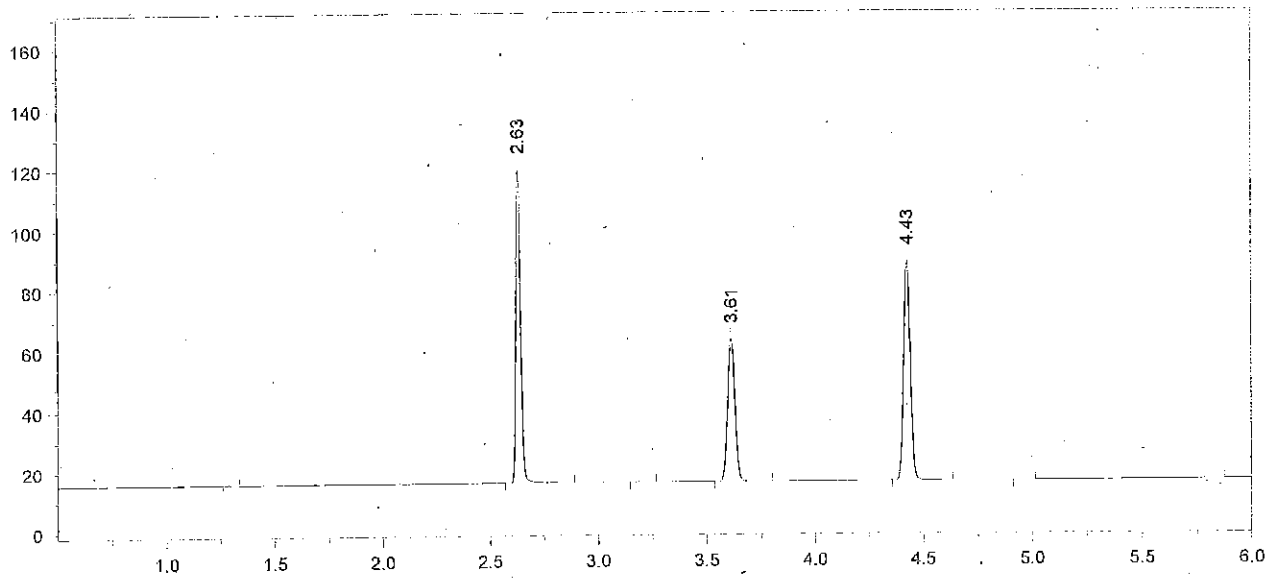


Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 7:16:41 AM
Bound File Name = VFL05302013.0005.RAW
Sample Name = STD C
Date Taken = 5/30/2013 4:04:52 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	63310	0.0849
4	3.61	t-Butanol	98098	0.9726
5	4.43	n-Propanol	147078	1.0000

13-11-160 9

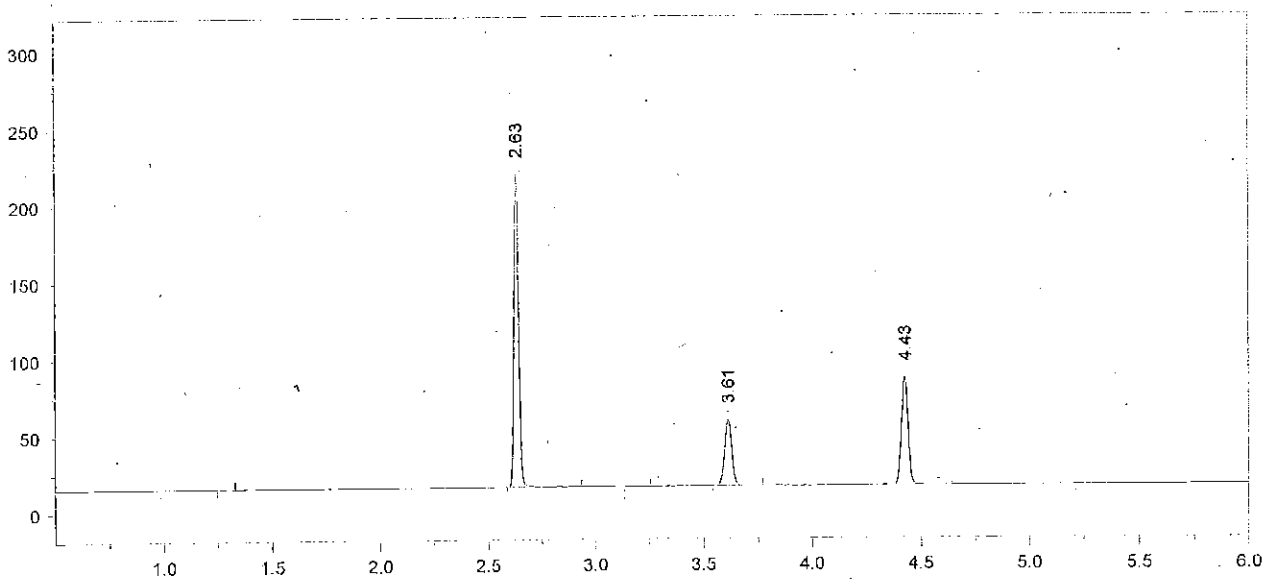


Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 7:16:46 AM
Bound File Name = VFL05302013.0006.RAW
Sample Name = STD D
Date Taken = 5/30/2013 4:22:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	155491	0.1999
4	3.61	t-Butanol	108454	1.0311
5	4.43	n-Propanol	153383	1.0000

13-11-160 10

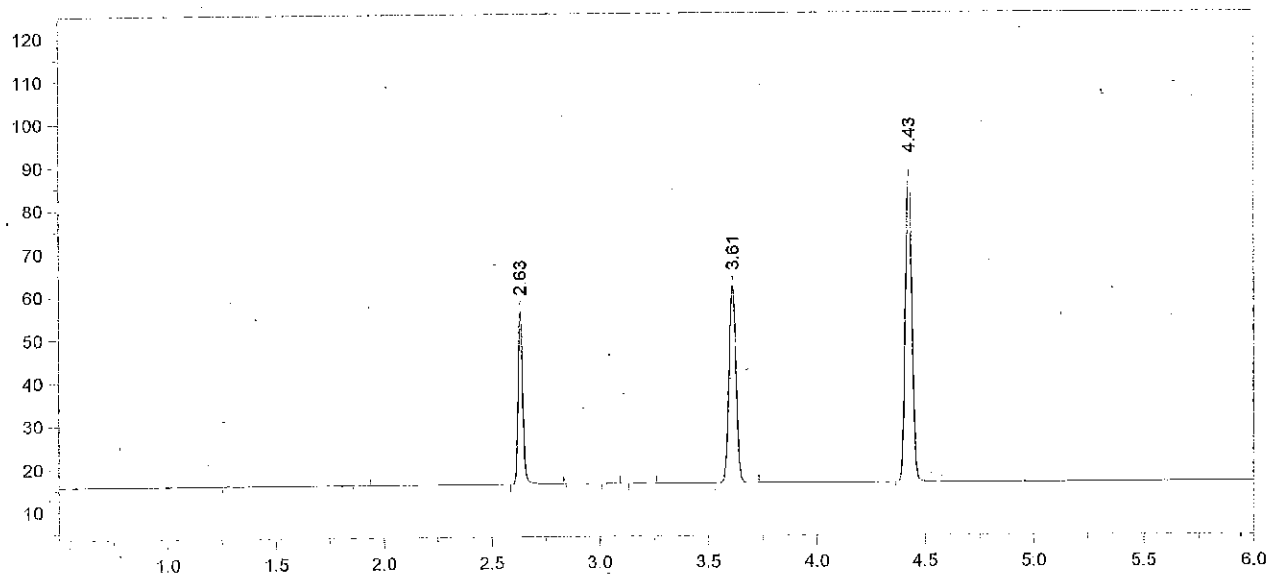


Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 7:16:52 AM
Bound File Name = VFL05302013.0007.RAW
Sample Name = STD E
Date Taken = 5/30/2013 4:35:31 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	304488	0.4044
4	3.61	t-Butanol	98963	0.9718
5	4.43	n-Propanol	148509	1.0000

13-11-160 11 SRB

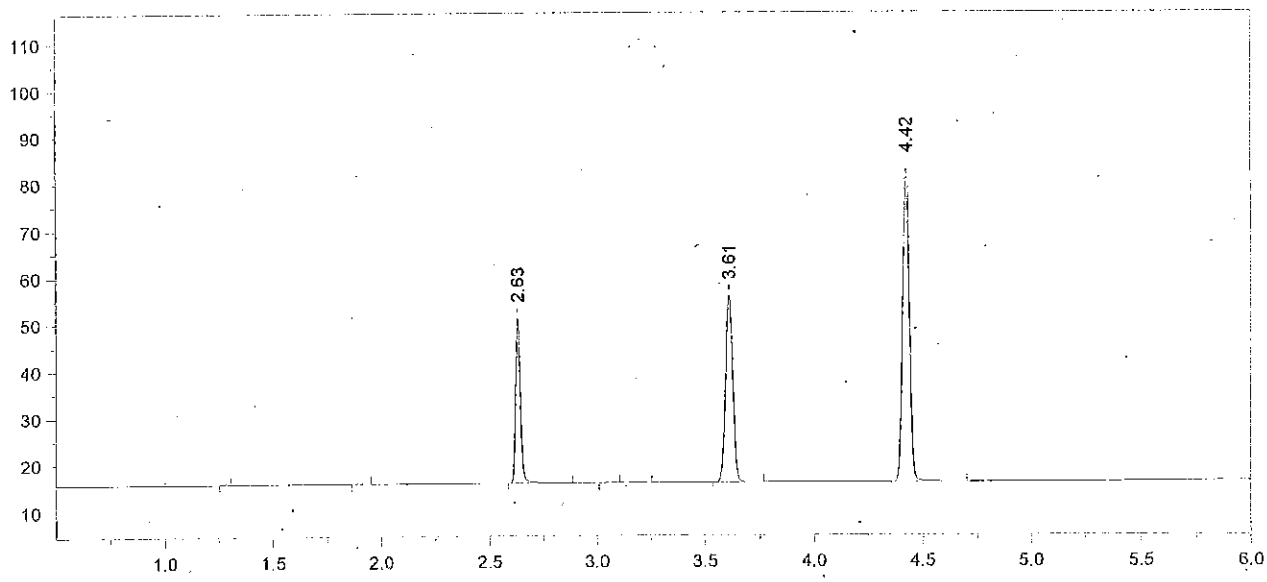


Format File Name = AlcoholVFL.FMT

Today's Date = 5/30/2013
Today's Time = 4:52:08 PM
Bound File Name = VFL05302013.0008.RAW
Sample Name = WB QC
Date Taken = 5/30/2013 4:52:00 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.63	Ethanol	61062	0.0787
6	3.61	t-Butanol	105122	1.0013
7	4.43	n-Propanol	153092	1.0000

13-11-160 12 [illegible]



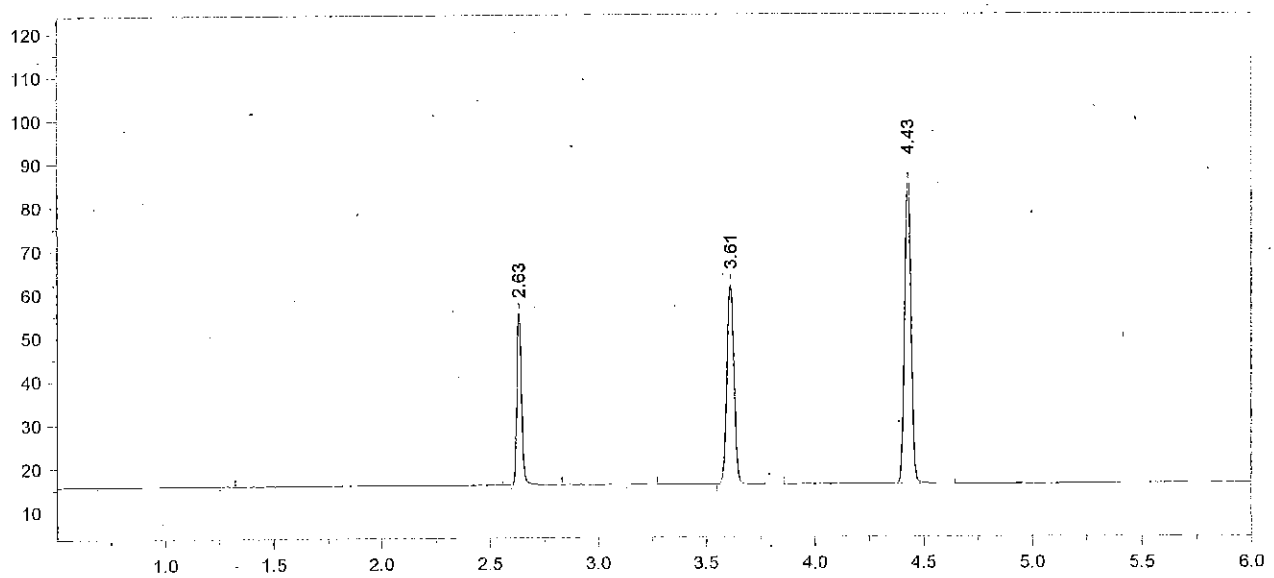
Format File Name = AlcoholVFL.FMT

Today's Date = 5/30/2013
Today's Time = 5:07:37 PM
Bound File Name = VFL05302013.0009.RAW
Sample Name = WB QC
Date Taken = 5/30/2013 5:07:33 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.63	Ethanol	54462	0.0759
6	3.61	t-Butanol	92026	0.9481
7	4.42	n-Propanol	141551	1.0000

WB QC Cliniqa
LOT # 0911120A
TV = 0.076
Avg vials 8 & 9 = 0.077 102% recovery
dcB 6/4/13

13-11-160 13 dcB

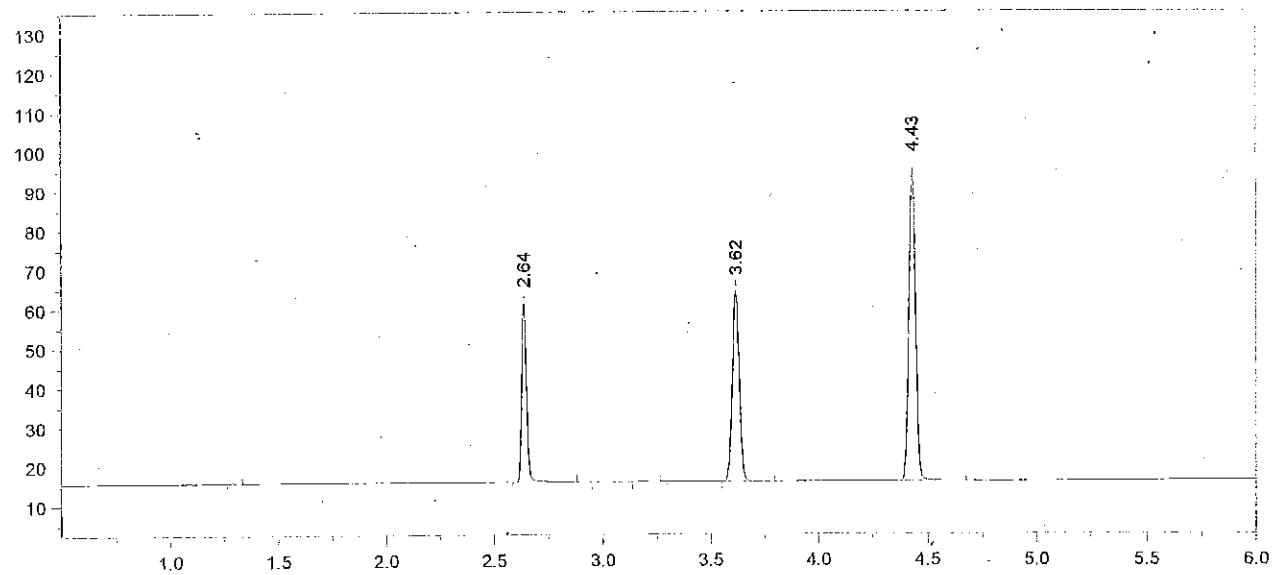


Format File Name = AlcoholVFL.FMT

Today's Date = 5/30/2013
Today's Time = 5:23:39 PM
Bound File Name = VFL05302013.0010.RAW
Sample Name = AQ QC
Date Taken = 5/30/2013 5:23:34 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	60515	0.0786
4	3.61	t-Butanol	105876	1.0171
5	4.43	n-Propanol	151800	1.0000

13-11-160 14 CB



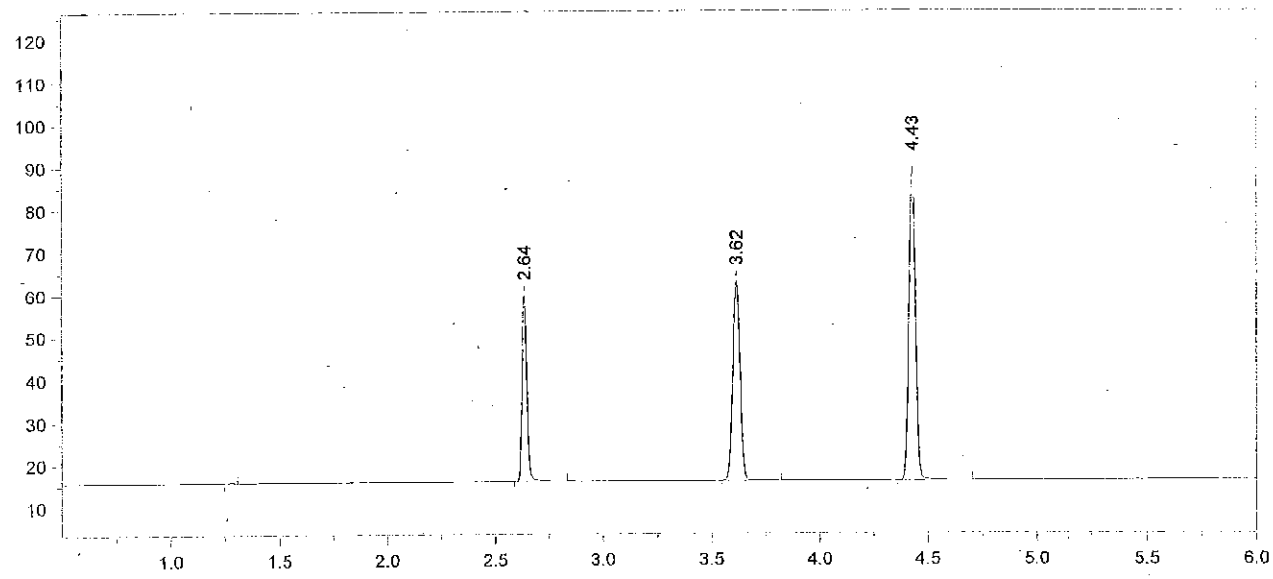
Format File Name = AlcoholVFL.FMT

Today's Date = 5/30/2013
Today's Time = 5:38:00 PM
Bound File Name = VFL05302013.0011.RAW
Sample Name = AQ QC
Date Taken = 5/30/2013 5:37:54 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	69233	0.0816
4	3.62	t-Butanol	111249	0.9698
5	4.43	n-Propanol	167286	1.0000

avg vials 10 + 11 = ~~0.074~~ 0.080 6/6/13 dLB
dLB 6/4/13

13-11-160 15 dLB



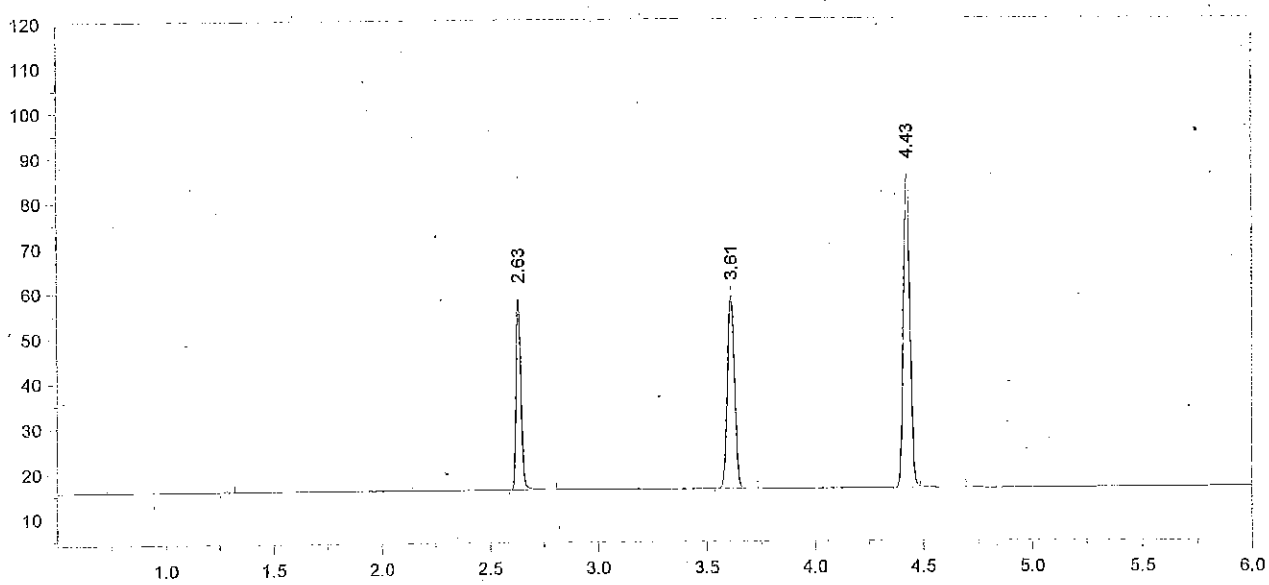
Format File Name = AlcoholVFL.FMT

Today's Date = 5/30/2013
Today's Time = 5:53:23 PM
Bound File Name = VFL05302013.0012.RAW
Sample Name = CCS
Date Taken = 5/30/2013 5:53:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	66723	0.0842
3	3.62	t-Butanol	108453	1.0125
4	4.43	n-Propanol	156202	1.0000

13-11-160 16 AB

Chrom Perfect Chromatogram Report



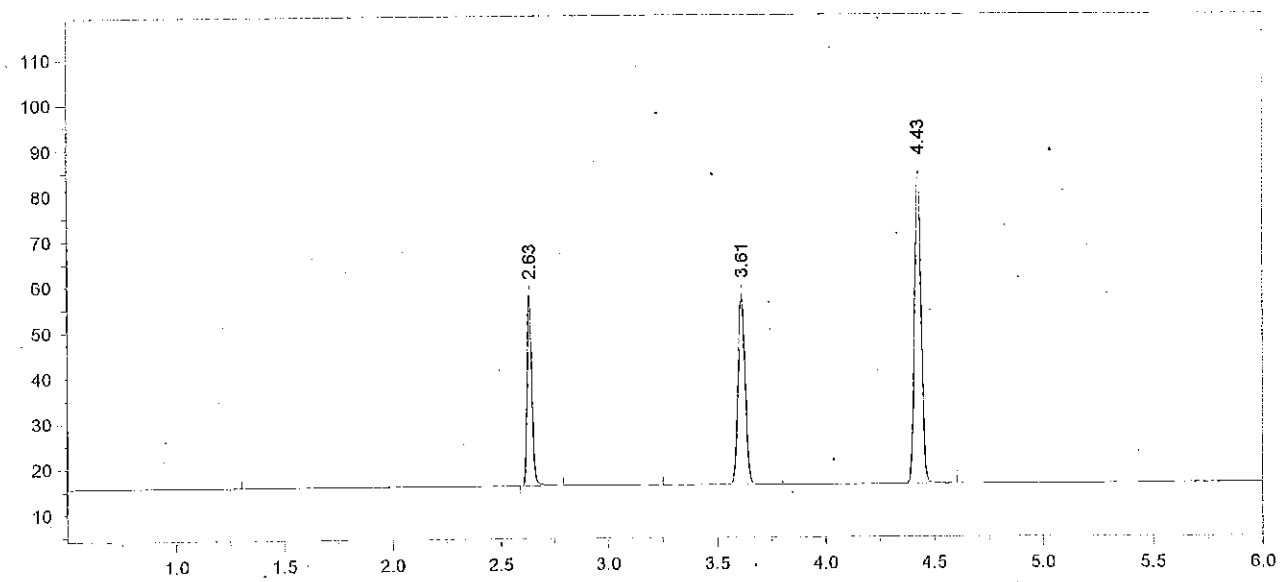
Format File Name = AlcoholVFL.FMT

Today's Date = 5/30/2013
Today's Time = 6:08:51 PM
Bound File Name = VFL05302013.0013.RAW
Sample Name = CCS
Date Taken = 5/30/2013 6:08:41 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	64118	0.0855
3	3.61	t-Butanol	98088	0.9675
4	4.43	n-Propanol	147840	1.0000

Avg vials 12 & 13 = 0.085 AeB 6/4/13

13-11-160 17 AeB



Format File Name = AlcoholVFL.FMT

Today's Date = 5/30/2013
Today's Time = 8:44:21 PM
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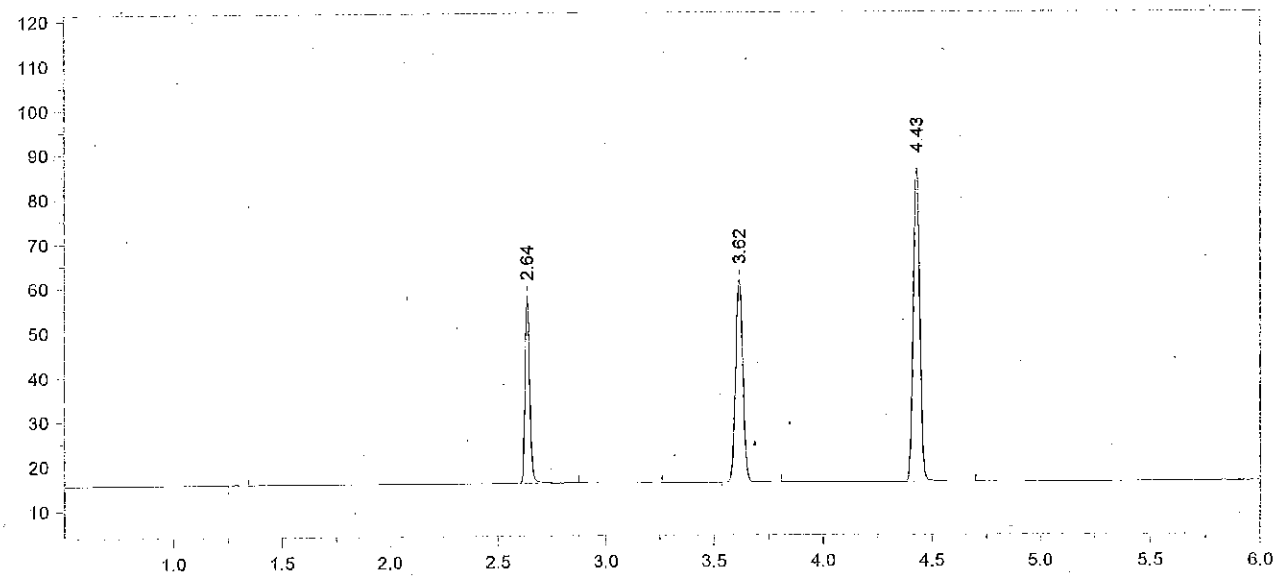
Sample Name = CCS
Date Taken = 5/30/2013 8:44:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	63315	0.0859
4	3.61	t-Butanol	96764	0.9702
5	4.43	n-Propanol	145445	1.0000

13-11-160 18



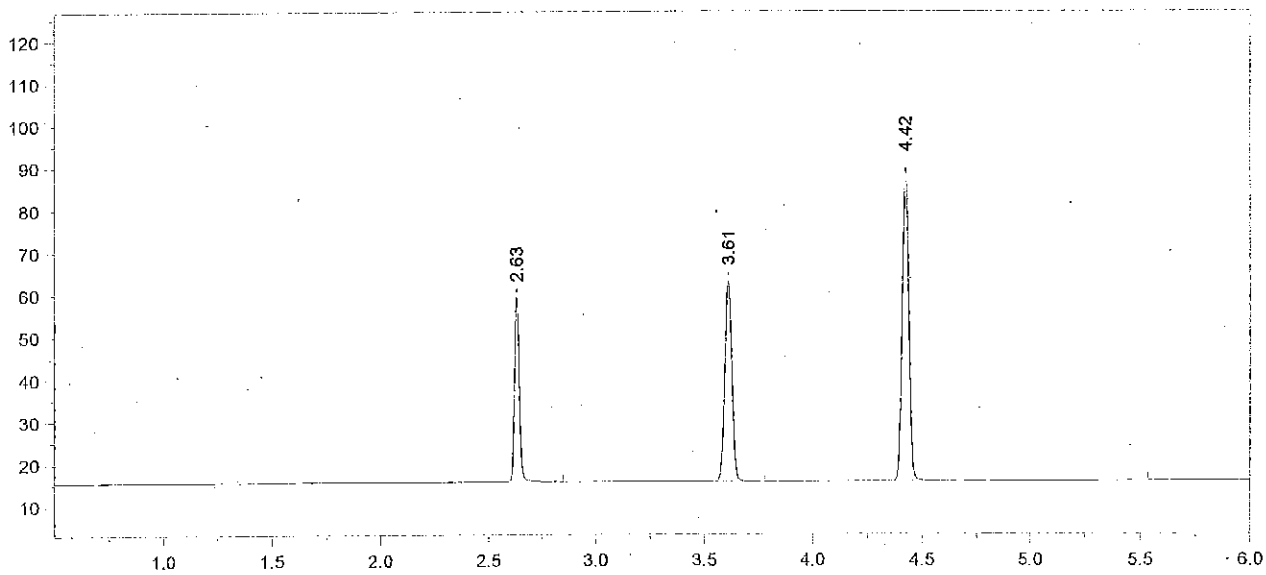
Format File Name = AlcoholVFL.FMT

Today's Date = 5/30/2013
Today's Time = 9:01:59 PM
Bound File Name = VFL05302013.0024.RAW
Sample Name = CCS
Date Taken = 5/30/2013 9:01:54 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	64201	0.0847
4	3.62	t-Butanol	105012	1.0241
5	4.43	n-Propanol	149530	1.0000

Average vials 23 & 24 = 0.085 6/4/13 [illegible]

13-11-160 19 [illegible]



Format File Name = AlcoholVFL.FMT.

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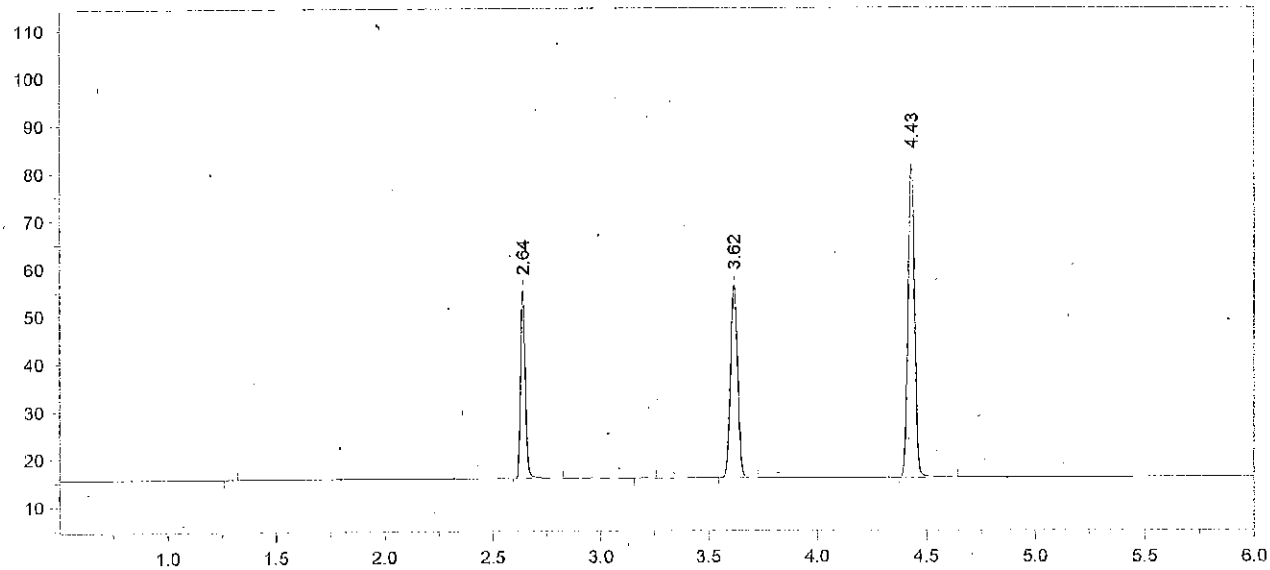
Today's Time = 11:06:08 PM
Bound File Name = VFL05302013.0032.RAW
Sample Name = CCS
Date Taken = 5/30/2013 11:06:02 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	66607	0.0842
3	3.61	t-Butanol	109267	1.0212
4	4.42	n-Propanol	156033	1.0000

13-11-160 20 Ste 3



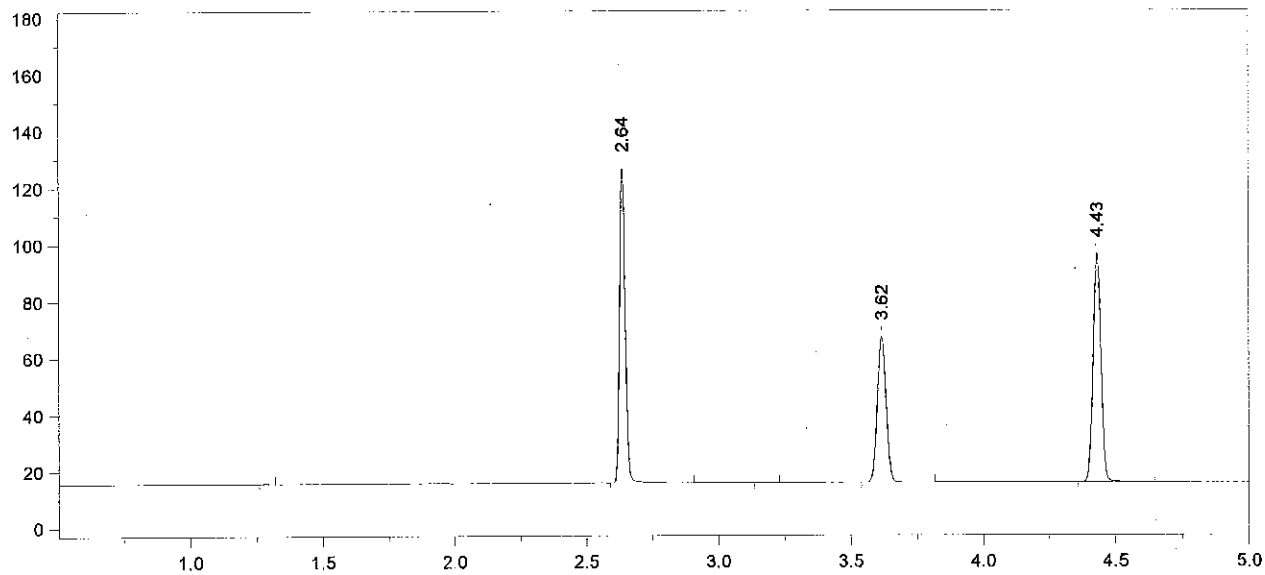
Format File Name = AlcoholVFL.FMT

Today's Date = 5/30/2013
Today's Time = 11:20:13 PM
Bound File Name = VFL05302013.0033.RAW
Sample Name = CCS
Date Taken = 5/30/2013 11:20:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	60426	0.0857
4	3.62	t-Butanol	93058	0.9763
5	4.43	n-Propanol	139002	1.0000

Avg vials 32 & 33 = 0.085 [illegible] 6/4/13

13-11-160 21 [illegible]

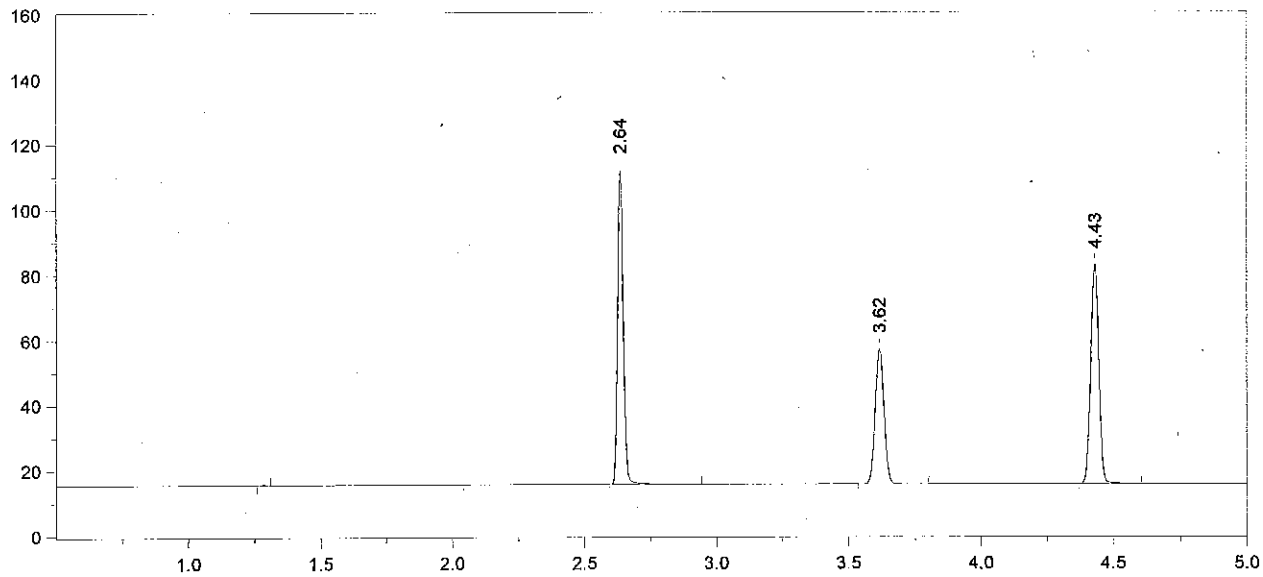


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/30/2013
Today's Time = 11:35:52 PM
Bound File Name = VFL05302013.0034.RAW
Sample Name = 0.16 ALB
Date Taken = 5/30/2013 11:35:43 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	165964	0.1925	0.1571
4	3.62	t-Butanol	118626	1.0172	0.8302
5	4.43	n-Propanol	170063	1.0000	0.8162

13-11-160 22 [illegible]



Format File Name = simsoln-JFH.met.FMT

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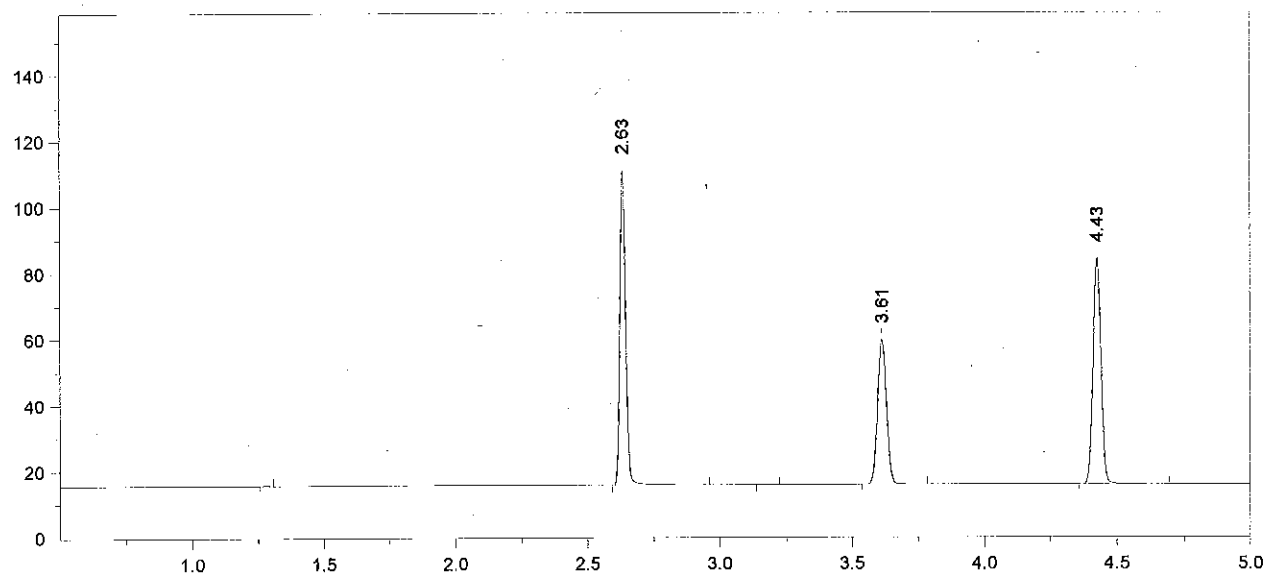
Today's Time = 11:51:20 PM
Bound File Name = VFL05302013.0035.RAW
Sample Name = 0.16 ALB
Date Taken = 5/30/2013 11:51:11 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	144522	0.2006	0.1637
3	3.62	t-Butanol	95149	0.9765	0.7970
4	4.43	n-Propanol	142094	1.0000	0.8162

13-11-160 23 [illegible]

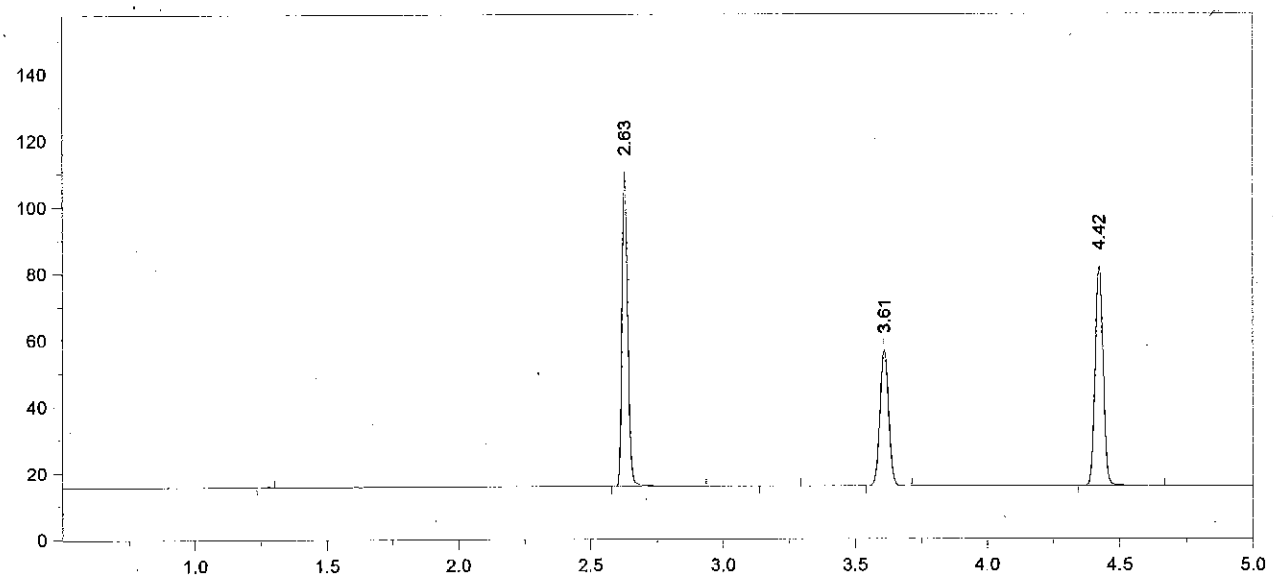


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/31/2013
Today's Time = 12:07:27 AM
Bound File Name = VFL05302013.0036.RAW
Sample Name = 0.16 ALB
Date Taken = 5/31/2013 12:07:20 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	143657	0.1959	0.1599
4	3.61	t-Butanol	101712	1.0255	0.8370
5	4.43	n-Propanol	144642	1.0000	0.8162

13-11-160 24 [illegible]

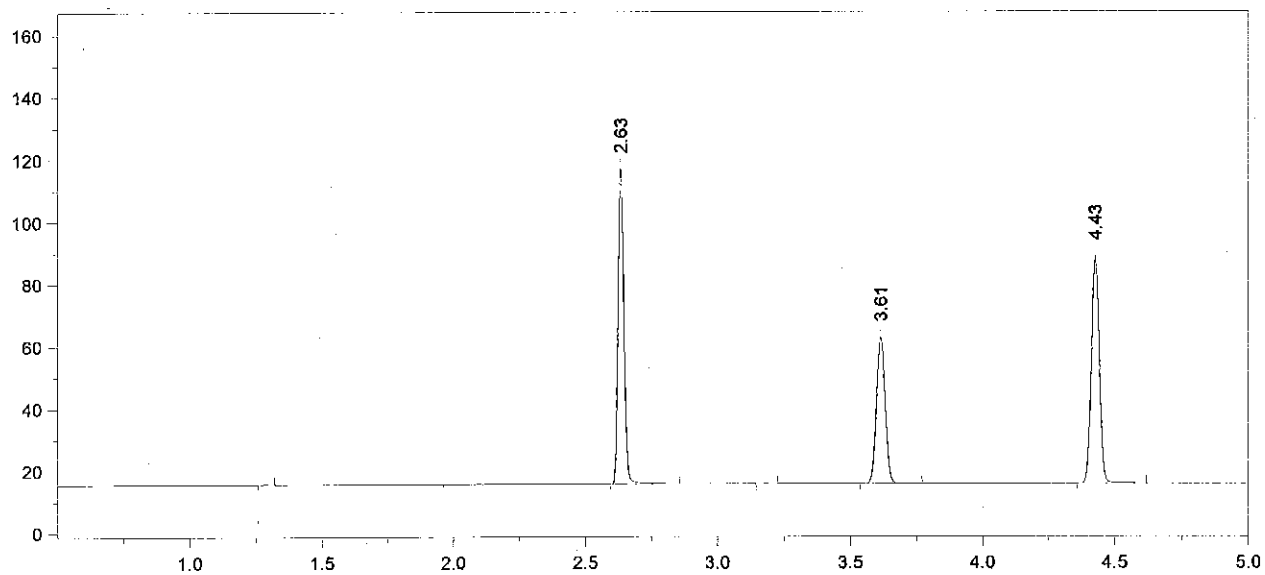


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/31/2013
Today's Time = 12:21:26 AM
Bound File Name = VFL05302013.0037.RAW
Sample Name = 0.16 ALB
Date Taken = 5/31/2013 12:21:20 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	141961	0.1996	0.1629
4	3.61	t-Butanol	94325	0.9808	0.8005
5	4.42	n-Propanol	140243	1.0000	0.8162

13-11-160 25 [illegible]

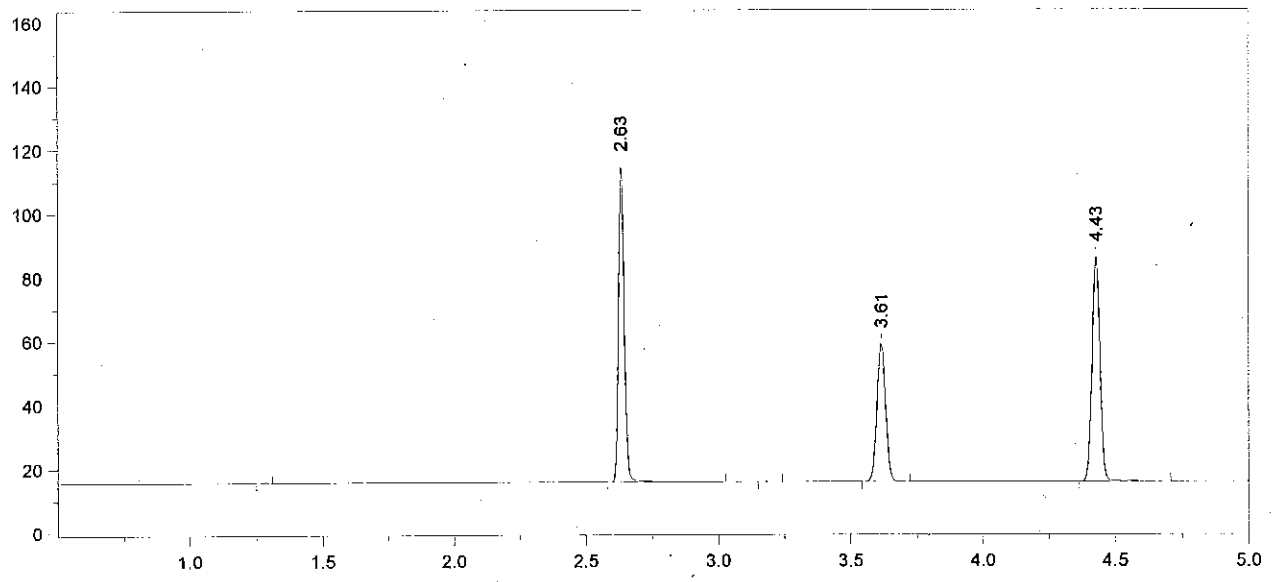


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/31/2013
Today's Time = 12:38:53 AM
Bound File Name = VFL05302013.0038.RAW
Sample Name = 0.16 ALB
Date Taken = 5/31/2013 12:38:44 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	152448	0.1953	0.1594
4	3.61	t-Butanol	108669	1.0293	0.8401
5	4.43	n-Propanol	153959	1.0000	0.8162

13-11-160 26 ~~43~~



Format File Name = simsoln-JFH.met.FMT

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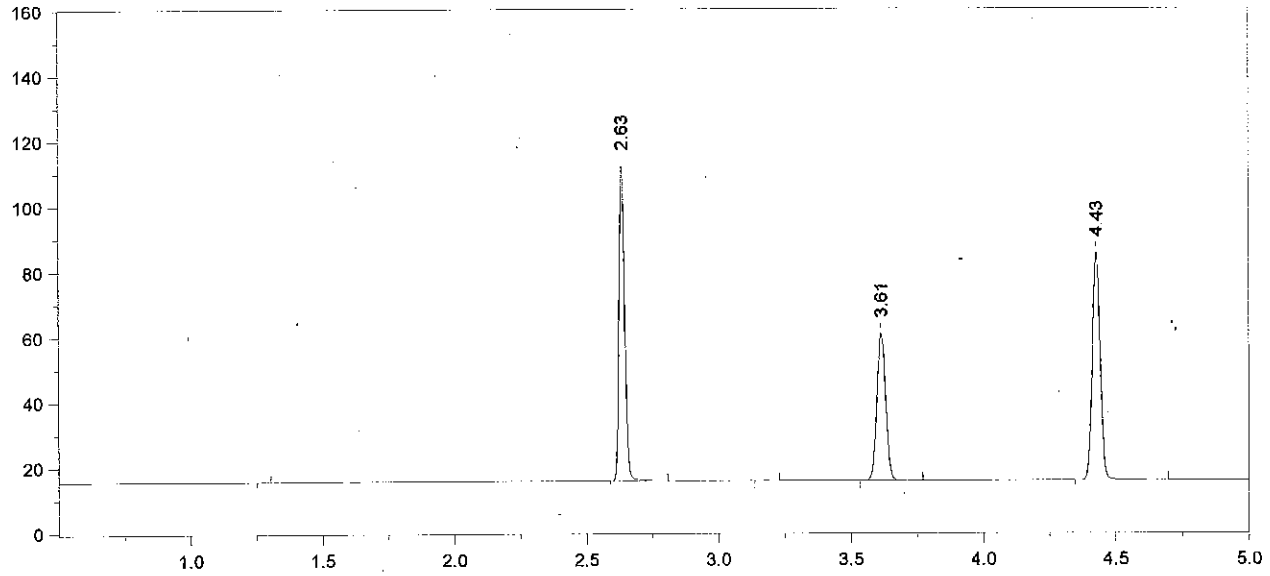
Today's Time = 12:52:31 AM
Bound File Name = VFL05302013.0039.RAW
Sample Name = 0.16 ALB
Date Taken = 5/31/2013 12:52:27 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	149030	0.1990	0.1624
4	3.61	t-Butanol	99402	0.9814	0.8010
5	4.43	n-Propanol	147702	1.0000	0.8162

13-11-160 27 [illegible]



Format File Name = simsoln-JFH.met.FMT

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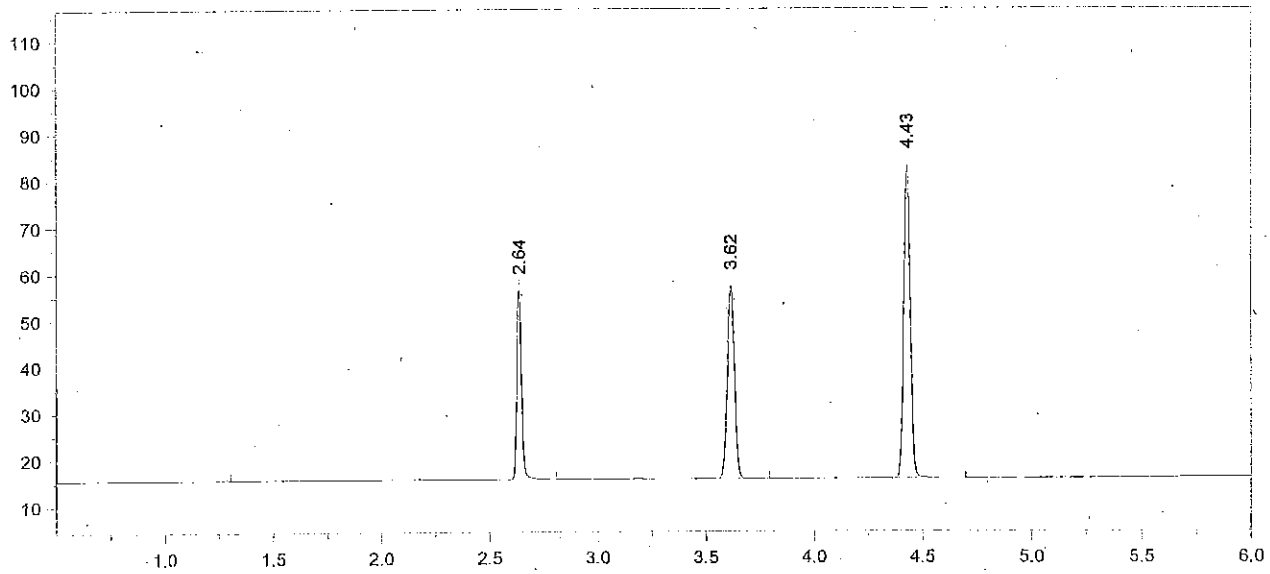
Sample Name = 0.16 ALB
Date Taken = 5/31/2013 1:10:09 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	144956	0.1946	0.1588
4	3.61	t-Butanol	103749	1.0299	0.8406
5	4.43	n-Propanol	146904	1.0000	0.8162

13-11-160 28 AEB

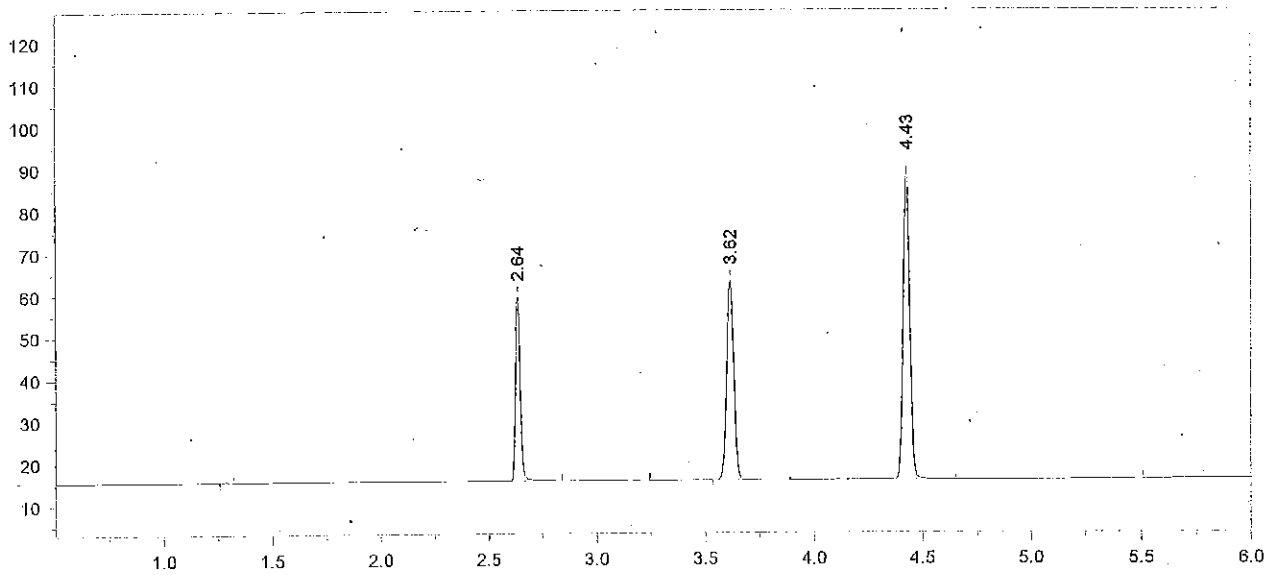


Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 1:23:30 AM
Bound File Name = VFL05302013.0041.RAW
Sample Name = CCS
Date Taken = 5/31/2013 1:23:21 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	62012	0.0857
3	3.62	t-Butanol	95747	0.9780
4	4.43	n-Propanol	142767	1.0000

13-11-160 29 -43



Format File Name = AlcoholVFL.FMT

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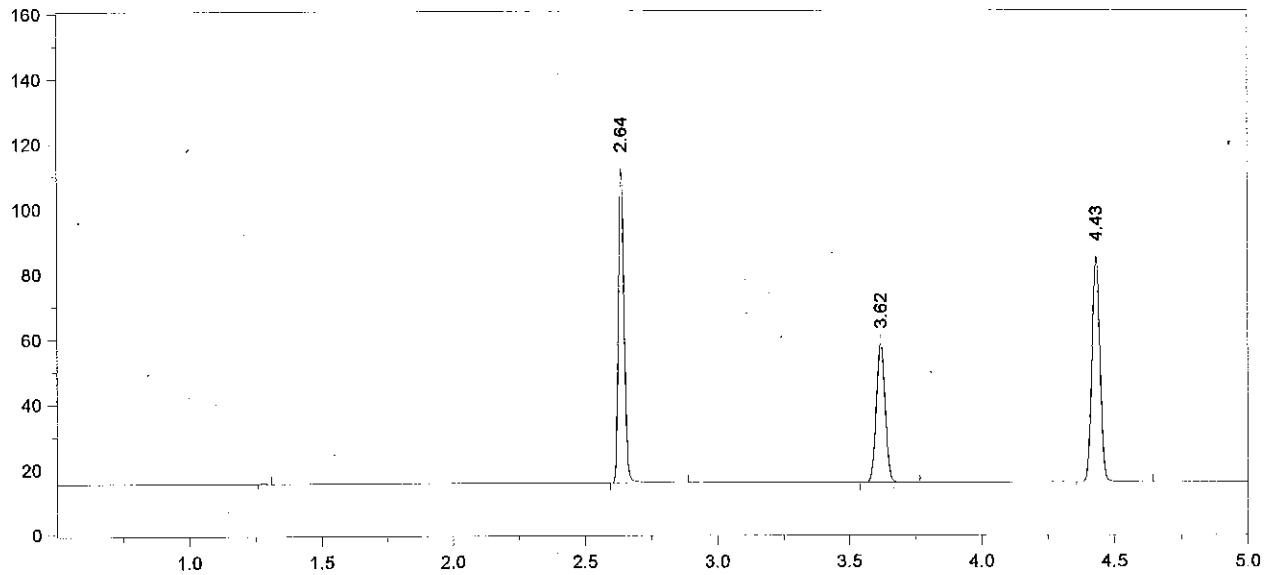
Today's Time = 1:41:37 AM
Bound File Name = VFL05302013.0042.RAW
Sample Name = CCS
Date Taken = 5/31/2013 1:41:33 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	66829	0.0842
4	3.62	t-Butanol	109701	1.0216
5	4.43	n-Propanol	156586	1.0000

Avg vials 41 & 42 = 0.085 6/4/13

13-11-160 30



Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/31/2013
Today's Time = 1:55:12 AM
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Sample Name = 0.16 RLM
Date Taken = 5/31/2013 1:55:08 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	145739	0.1959	0.1599
3	3.62	t-Butanol	98143	0.9756	0.7963
4	4.43	n-Propanol	146696	1.0000	0.8162

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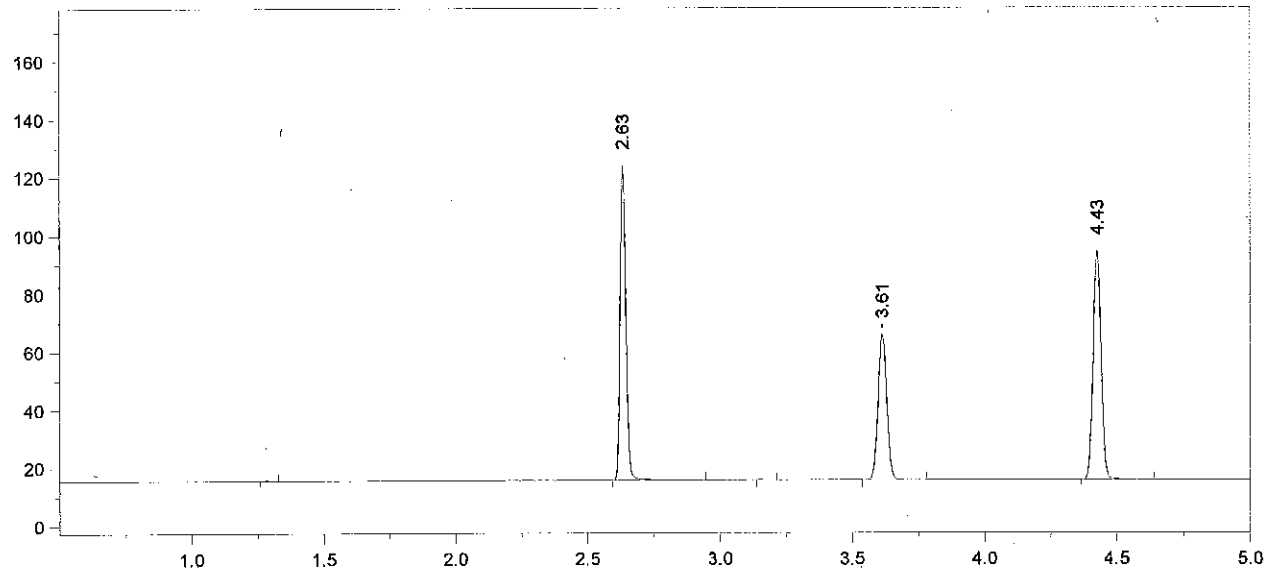

Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/31/2013
Today's Time = 2:11:23 AM
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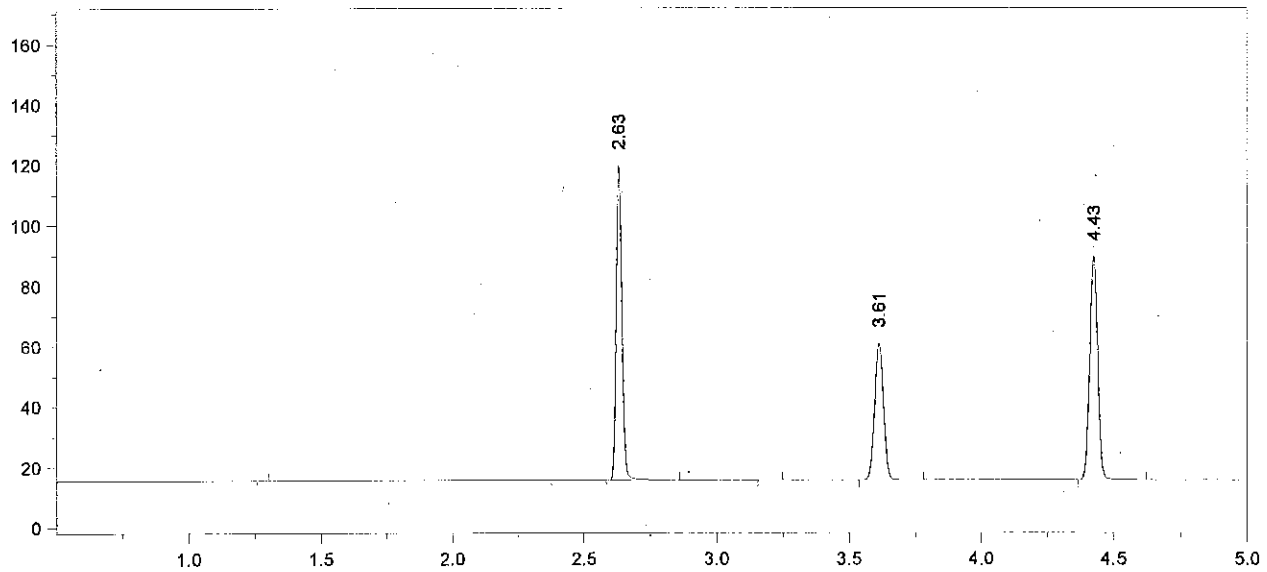
Sample Name = 0.16 RLM
Date Taken = 5/31/2013 2:11:16 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	162487	0.1934	0.1579
4	3.61	t-Butanol	115493	1.0164	0.8296
5	4.43	n-Propanol	165697	1.0000	0.8162

13-11-160 32 AB



Format File Name = simsoln-JFH.met.FMT

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Sample Name = 0.16 RLM
Date Taken = 5/31/2013 2:26:50 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	155382	0.1960	0.1600
4	3.61	t-Butanol	104349	0.9733	0.7944
5	4.43	n-Propanol	156338	1.0000	0.8162

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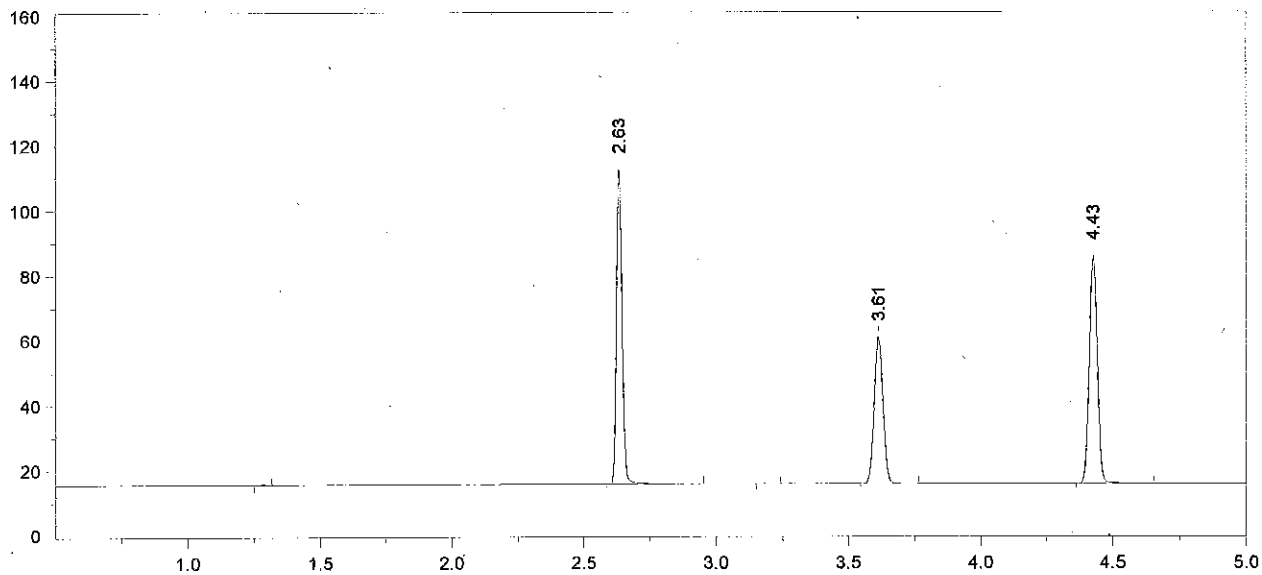
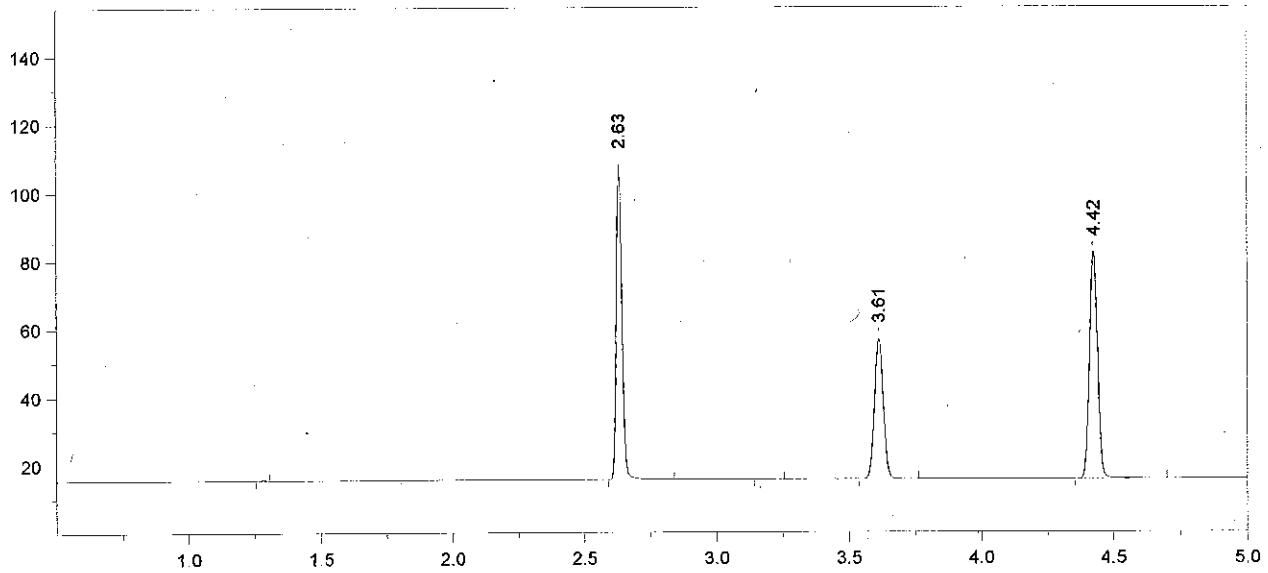


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/31/2013
Today's Time = 2:42:56 AM
Bound File Name = VFL05302013.0046.RAW
Sample Name = 0.16 RLM
Date Taken = 5/31/2013 2:42:49 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	145477	0.1941	0.1584
4	3.61	t-Butanol	103891	1.0248	0.8364
5	4.43	n-Propanol	147835	1.0000	0.8162

13-11-160 34 [illegible]



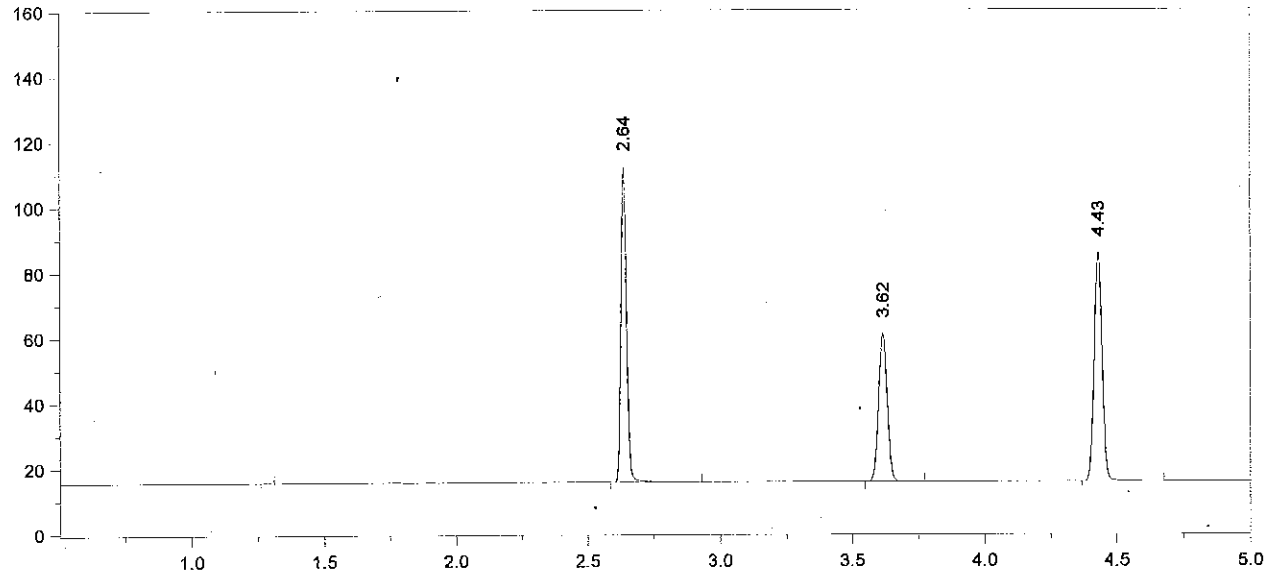
Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/31/2013
Today's Time = 2:57:06 AM
Bound File Name = VFL05302013.0047.RAW
Sample Name = 0.16 RLM
Date Taken = 5/31/2013 2:57:02 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	139857	0.1958	0.1598
4	3.61	t-Butanol	95155	0.9852	0.8041
5	4.42	n-Propanol	140848	1.0000	0.8162

13-11-160 35 -RCB

Chrom Perfect Chromatogram Report

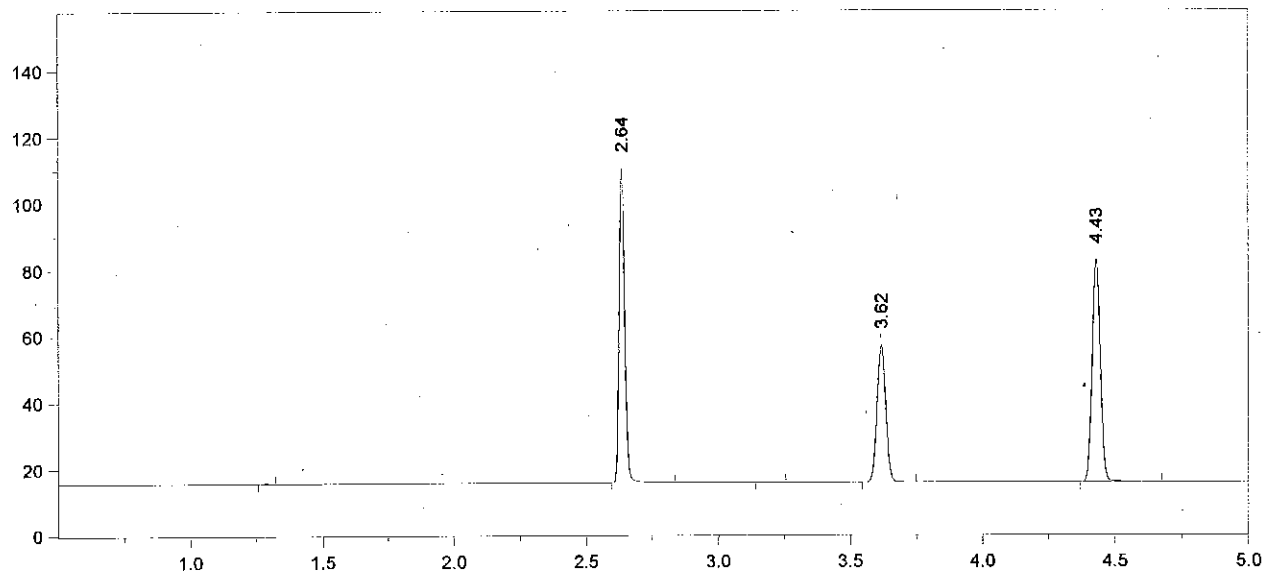


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/31/2013
Today's Time = 3:14:17 AM
Bound File Name = VFL05302013.0048.RAW
Sample Name = 0.16 RLM
Date Taken = 5/31/2013 3:14:13 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	144505	0.1927	0.1573
3	3.62	t-Butanol	104327	1.0289	0.8398
4	4.43	n-Propanol	147860	1.0000	0.8162

13-11-160 36 AeB

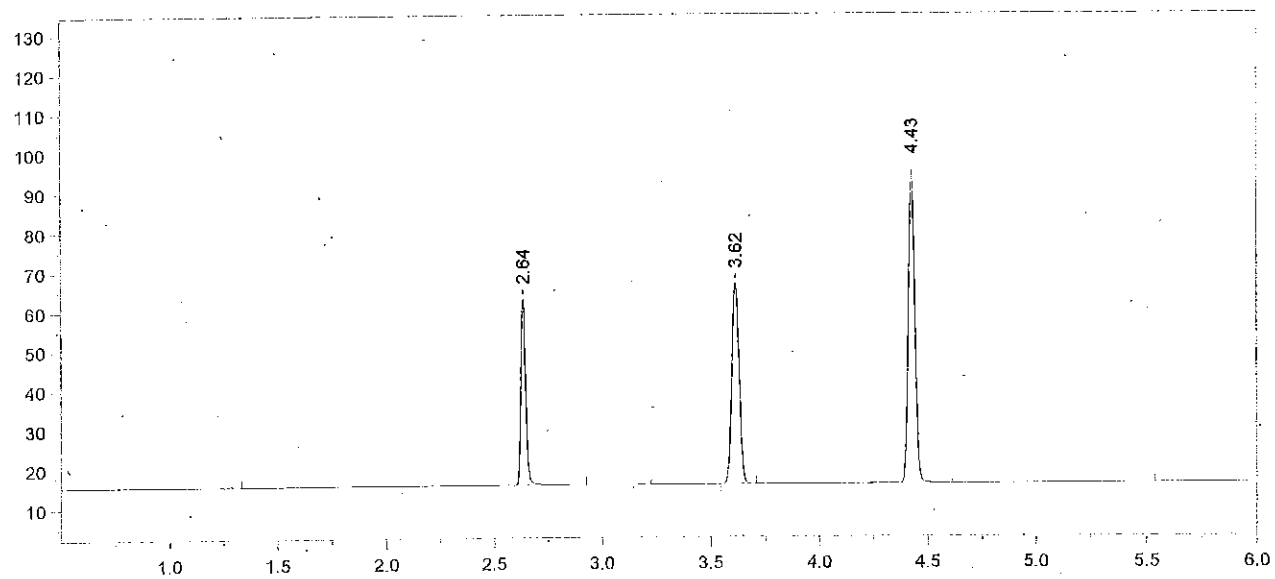


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/31/2013
Today's Time = 3:28:03 AM
Bound File Name = VFL05302013.0049.RAW
Sample Name = 0.16 RLM
Date Taken = 5/31/2013 3:27:56 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	141572	0.1965	0.1604
4	3.62	t-Butanol	95096	0.9758	0.7965
5	4.43	n-Propanol	142113	1.0000	0.8162

13-11-160 37 Ae13

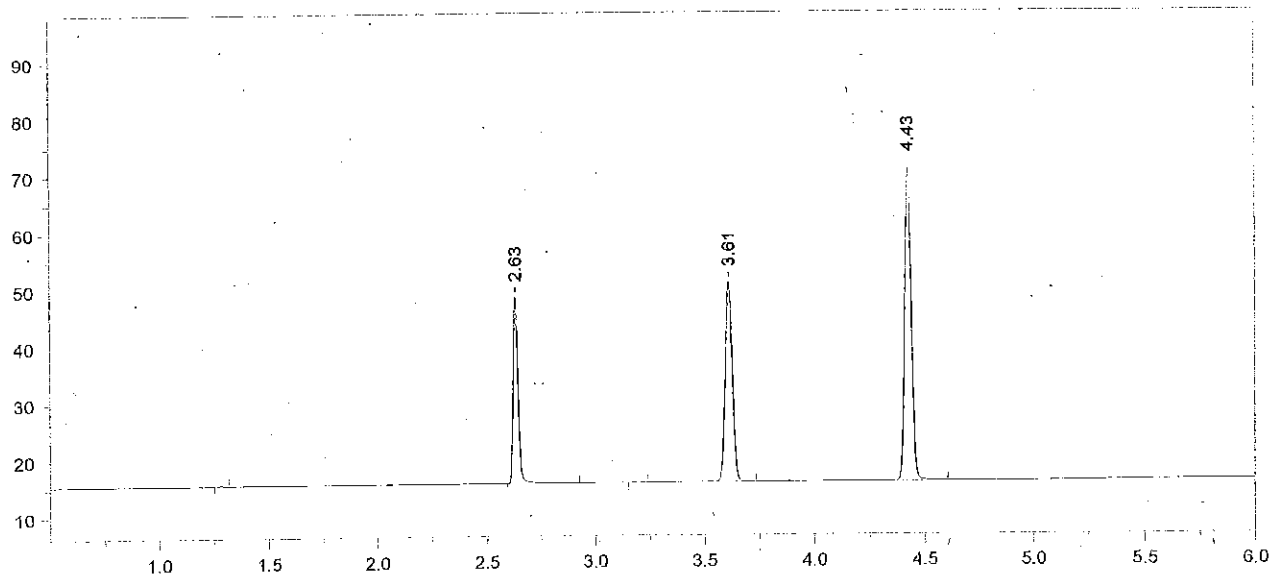


Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 3:44:02 AM
Bound File Name = VFL05302013.0050.RAW
Sample Name = CCS
Date Taken = 5/31/2013 3:43:55 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	72084	0.0850
4	3.62	t-Butanol	116879	1.0188
5	4.43	n-Propanol	167291	1.0000

13-11-160 38 [illegible]



Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 3:58:55 AM
Bound File Name = VFL05302013.0051.RAW
Sample Name = CCS
Date Taken = 5/31/2013 3:58:50 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL05302013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	50577	0.0859
4	3.61	t-Butanol	80749	1.0136
5	4.43	n-Propanol	116176	1.0000

Avg vals 50 + 51 = 0.085
6/4/13
ekB

13-11-160 39 ekB

Headspace Alcohol Analysis Standards Coversheet

Analyst: RLM Date: 5/31/13

6/6/2013

Calibration Standards:

Lot ID: ES-04152013 Preparation Date: 04/15/2013 Expiration Date: 7/15/2013

	Standard A	Standard B	Standard C	Standard D	Standard E	Calibration Check
% Ethanol (w/v)	0.005	0.022	0.084	0.204	0.402	0.084
Acceptance Range (± 10%)	0.006	0.024	0.092	0.224	0.443	0.092
	0.004	0.020	0.075	0.183	0.362	0.075

Control Sample:

Sample	Source	Lot number	Target Value	Acceptance Range	
Aqueous	Cerilliant	FN021111-03	0.080	0.072	0.088

Calibration and Control Sample Data:

Vial No.	Sample Identification		Result	In Range?	Comments
1	Blank		<0.005	Y N	
2	Compound Retention Times:			N/A	
		Acetaldehyde	1.89		
		Methanol	1.99		
		Ethanol	2.64		
		Acetone	3.04		
		Isopropanol	3.17		
		T- butanol	3.62		
		n-propanol	4.43		
3	Standard A		0.005	Y N	
4	Standard B		0.021	Y N	
5	Standard C		0.084	Y N	
6	Standard D		0.199	Y N	
7	Standard E		0.405	Y N	
8	Aqueous QC		0.0793	Y N	
9	Aqueous QC		0.0791	Y N	$\bar{X}$ = 0.079 99% recovery

6/4/13 ACB

13-11-160 40 ACB

File Name = C:\Alcohol Data\SIM05312013\SIM05312013.SEQ
Version = 1
File Date = 5/31/2013 1:55:16 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM05312013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM05312013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM05312013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM05312013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM05312013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM05312013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM05312013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM05312013.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM05312013.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM05312013.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM05312013.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM05312013.0012.raw	simsoln.met	0.1 RLM	1.00	1.00
13	SIM05312013.0013.raw	simsoln.met	0.1 RLM	1.00	1.00
14	SIM05312013.0014.raw	simsoln.met	0.1 RLM	1.00	1.00
15	SIM05312013.0015.raw	simsoln.met	0.1 RLM	1.00	1.00
16	SIM05312013.0016.raw	simsoln.met	0.1 RLM	1.00	1.00
17	SIM05312013.0017.raw	simsoln.met	0.1 RLM	1.00	1.00
18	SIM05312013.0018.raw	simsoln.met	0.1 RLM	1.00	1.00
19	SIM05312013.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM05312013.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM05312013.0021.raw	simsoln.met	0.1 ALB	1.00	1.00
22	SIM05312013.0022.raw	simsoln.met	0.1 ALB	1.00	1.00
23	SIM05312013.0023.raw	simsoln.met	0.1 ALB	1.00	1.00
24	SIM05312013.0024.raw	simsoln.met	0.1 ALB	1.00	1.00
25	SIM05312013.0025.raw	simsoln.met	0.1 ALB	1.00	1.00
26	SIM05312013.0026.raw	simsoln.met	0.1 ALB	1.00	1.00
27	SIM05312013.0027.raw	simsoln.met	0.1 ALB	1.00	1.00
28	SIM05312013.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM05312013.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	SIM05312013.0030.raw	simsoln.met	0.16 RLM	1.00	1.00
31	SIM05312013.0031.raw	simsoln.met	0.16 RLM	1.00	1.00
32	SIM05312013.0032.raw	simsoln.met	0.16 RLM	1.00	1.00
33	SIM05312013.0033.raw	simsoln.met	0.16 RLM	1.00	1.00
34	SIM05312013.0034.raw	simsoln.met	0.16 RLM	1.00	1.00
35	SIM05312013.0035.raw	simsoln.met	0.16 RLM	1.00	1.00
36	SIM05312013.0036.raw	simsoln.met	0.16 RLM	1.00	1.00
37	SIM05312013.0037.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
38	SIM05312013.0038.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
39	SIM05312013.0039.raw	simsoln.met	0.16 ALB	1.00	1.00
40	SIM05312013.0040.raw	simsoln.met	0.16 ALB	1.00	1.00
41	SIM05312013.0041.raw	simsoln.met	0.16 ALB	1.00	1.00
42	SIM05312013.0042.raw	simsoln.met	0.16 ALB	1.00	1.00
43	SIM05312013.0043.raw	simsoln.met	0.16 ALB	1.00	1.00
44	SIM05312013.0044.raw	simsoln.met	0.16 ALB	1.00	1.00
45	SIM05312013.0045.raw	simsoln.met	0.16 ALB	1.00	1.00
46	SIM05312013.0046.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
47	SIM05312013.0047.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

different [X] sim soln not included 6/4/13 DB

13-11-160 41 DB

File Name: C:\Methods\SIM05312013.CAL
Version: 7

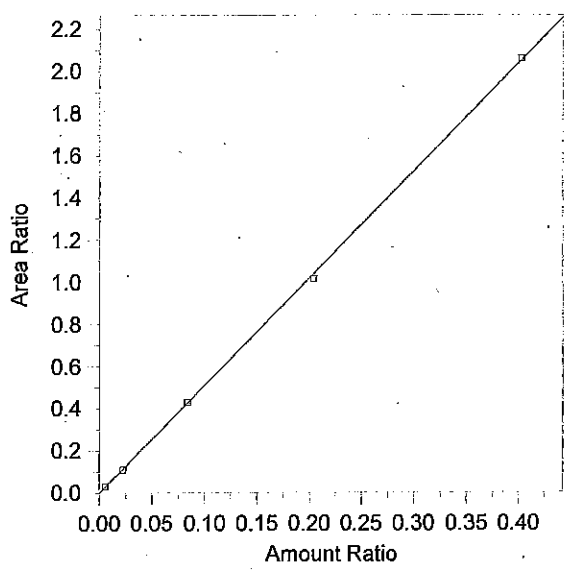
Creator:
Description:
Reason for change:

Internal standard calibration
No injection volume correction
No sample weight correction
Area reject threshold: 1500
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:	2.633 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

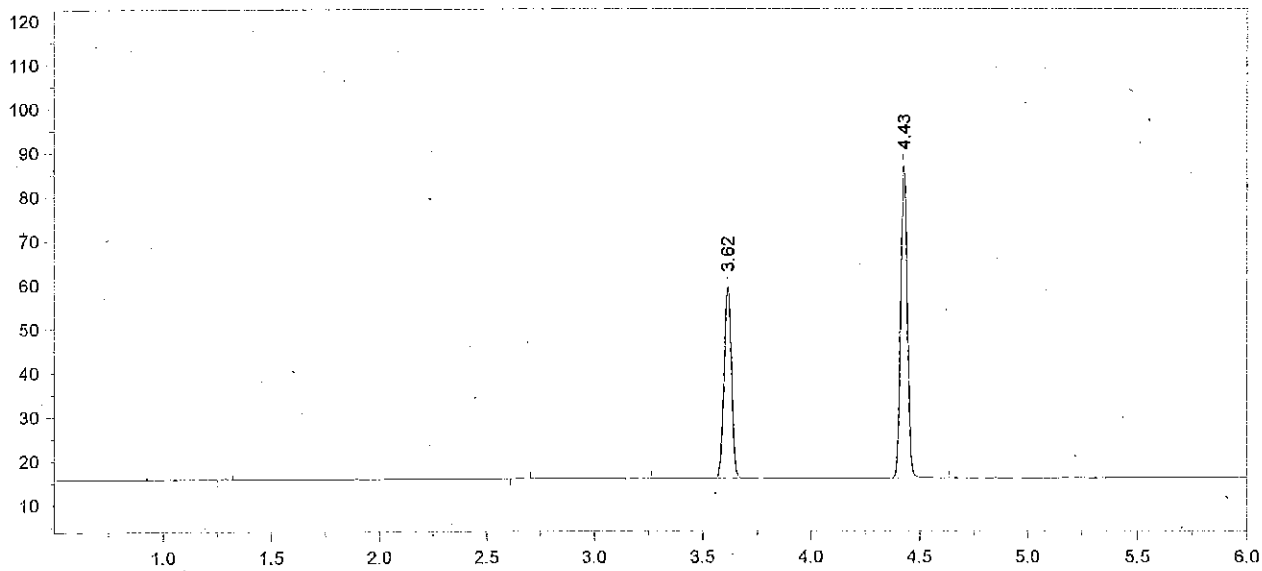
Y = 5.088822 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.999793
Average error:	1.545%
Average CF:	5.076836
RSD:	2.005%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.087)	(85146)	--	--	0.087	85146	Manual	8/8/2012 7:53:22 AM
2	0.0055	4317.914	785075.3	2.442	0.0055	2.867196E-02	C:\Alcohol Data\SIM05312013\SIM05312013.0003.BND	5/31/2013 3:02:53 PM
3	0.0221	17318.79	783655.6	-2.385	0.0221	0.1097812	C:\Alcohol Data\SIM05312013\SIM05312013.0004.BND	5/31/2013 3:18:59 PM
4	0.084	64121.36	763349.5	0.310	0.084	0.4287841	C:\Alcohol Data\SIM05312013\SIM05312013.0005.BND	5/31/2013 3:34:20 PM
5	0.2037	168230.6	825874.3	-2.067	0.2037	1.015167	C:\Alcohol Data\SIM05312013\SIM05312013.0006.BND	5/31/2013 3:48:48 PM
6	0.4026	300381	746102.9	0.522	0.4026	2.059462	C:\Alcohol Data\SIM05312013\SIM05312013.0007.BND	5/31/2013 4:04:35 PM

13-11-160 42 ARB

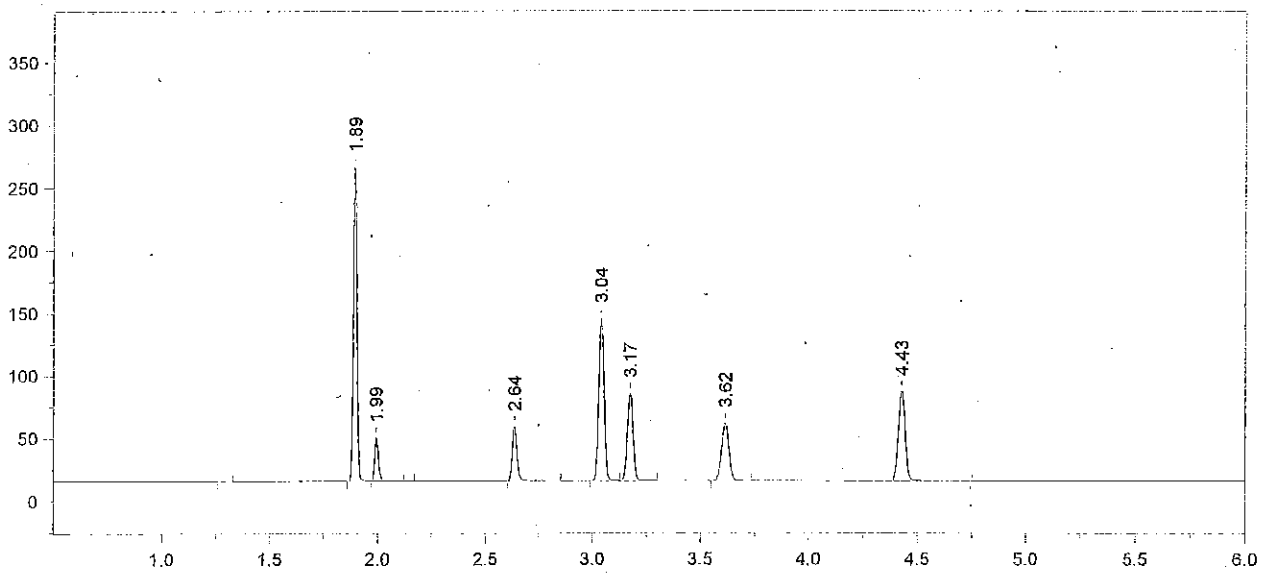


Format File Name = AlcoholVFL.FMT

Today's Date = 6/3/2013
Today's Time = 7:10:58 AM
Bound File Name = SIM05312013.0001.RAW
Sample Name = Blank
Date Taken = 5/31/2013 2:31:39 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.62	t-Butanol	100087	0.9768
5	4.43	n-Propanol	150287	1.0000

13-11-160 43 Alc B

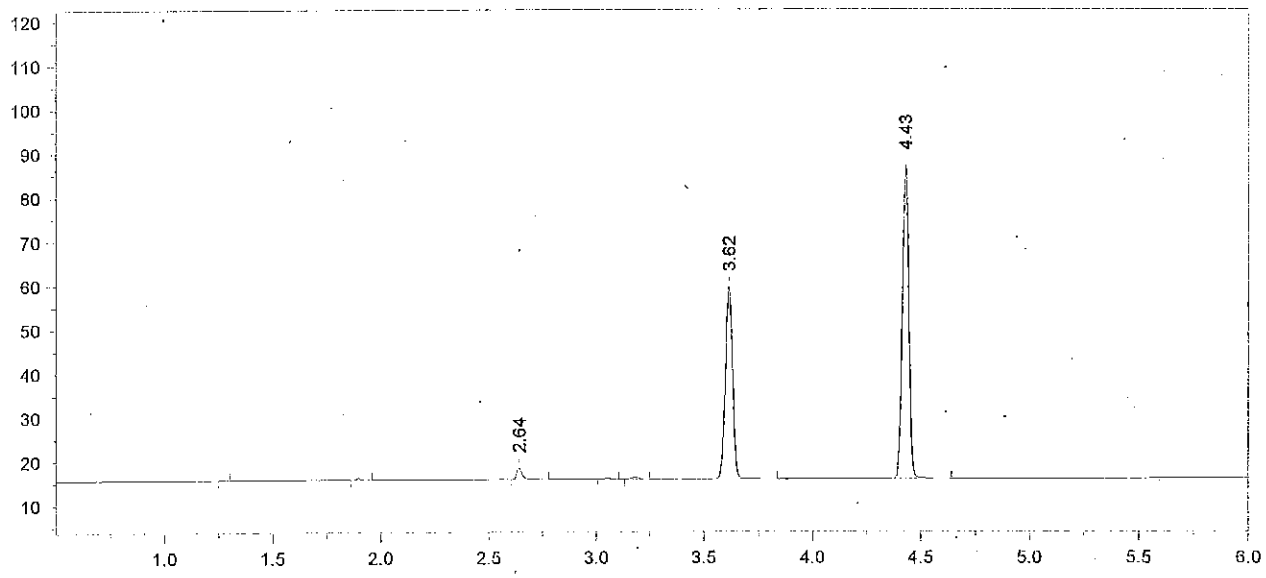


Format File Name = AlcoholVFL.FMT

Today's Date = 6/3/2013
Today's Time = 7:11:03 AM
Bound File Name = SIM05312013.0002.RAW
Sample Name = TMX
Date Taken = 5/31/2013 2:49:07 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.89	Acetaldehyde	285627	0.0720
3	1.99	Methanol	40629	0.1210
4	2.64	Ethanol	65677	0.0856
5	3.04	Acetone	219817	0.0690
6	3.17	Isopropanol	129275	0.0830
7	3.62	t-Butanol	105597	1.0272
8	4.43	n-Propanol	150782	1.0000

13-11-160 44 Ale B

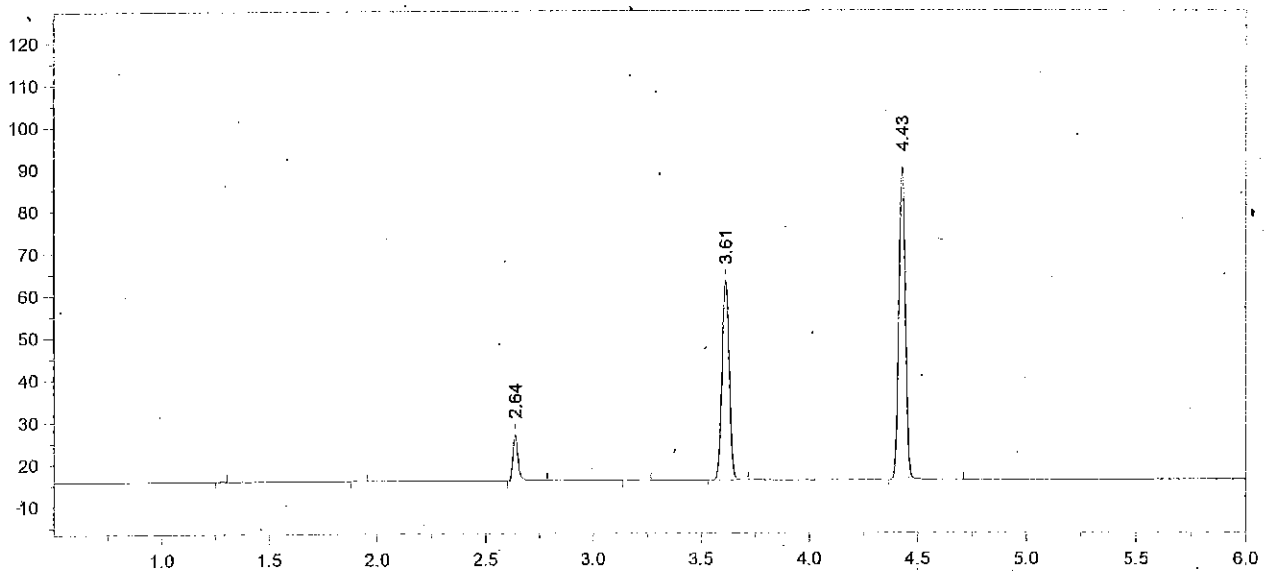


Format File Name = AlcoholVFL.FMT

Today's Date = 6/3/2013
Today's Time = 7:11:09 AM
Bound File Name = SIM05312013.0003.RAW
Sample Name = STD A
Date Taken = 5/31/2013 3:02:43 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	04318	0.0056
6	3.62	t-Butanol	100484	0.9786
7	4.43	n-Propanol	150597	1.0000

13-11-160 45 dcB

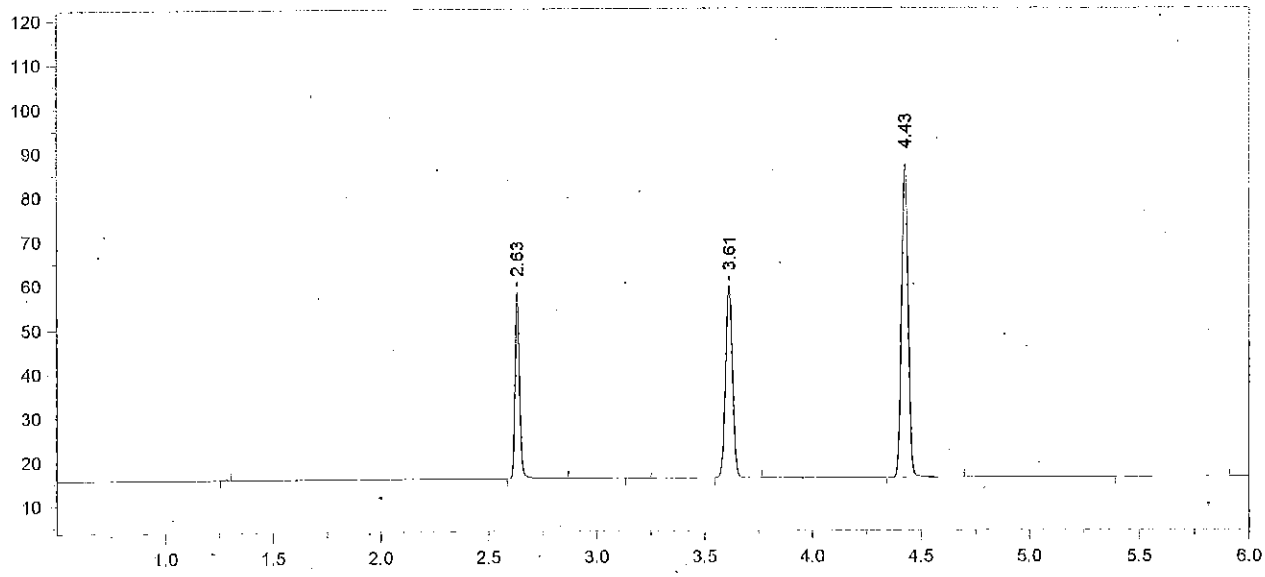


Format File Name = AlcoholVFL.FMT

Today's Date = 6/3/2013
Today's Time = 7:11:15 AM
Bound File Name = SIM05312013.0004.RAW
Sample Name = STD B
Date Taken = 5/31/2013 3:18:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.64	Ethanol	17319	0.0216
5	3.61	t-Butanol	109702	1.0199
6	4.43	n-Propanol	157757	1.0000

13-11-160 46 [illegible]

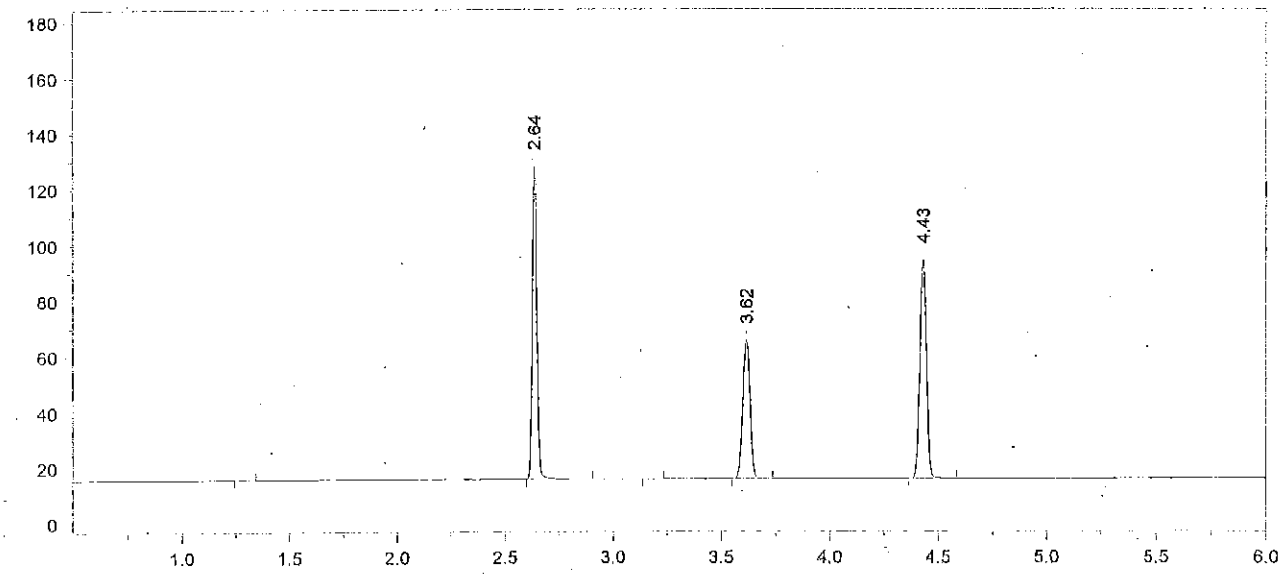


Format File Name = AlcoholVFL.FMT

Today's Date = 6/3/2013
Today's Time = 7:11:21 AM
Bound File Name = SIM05312013.0005.RAW
Sample Name = STD C
Date Taken = 5/31/2013 3:34:15 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	64121	0.0843
4	3.61	t-Butanol	99612	0.9770
5	4.43	n-Propanol	149542	1.0000

13-11-160 47 -de-3

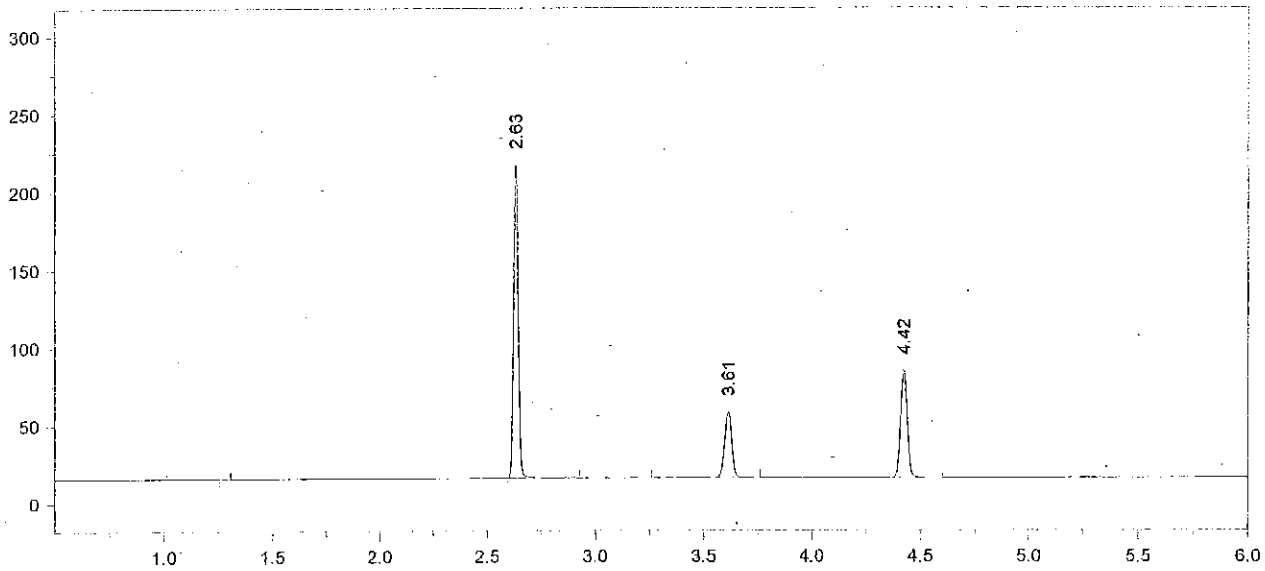


Format File Name = AlcoholVFL.FMT

Today's Date = 6/3/2013
Today's Time = 7:11:27 AM
Bound File Name = SIM05312013.0006.RAW
Sample Name = STD D
Date Taken = 5/31/2013 3:48:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	168231	0.1995
4	3.62	t-Butanol	115057	1.0183
5	4.43	n-Propanol	165717	1.0000

13-11-160 48 AEB

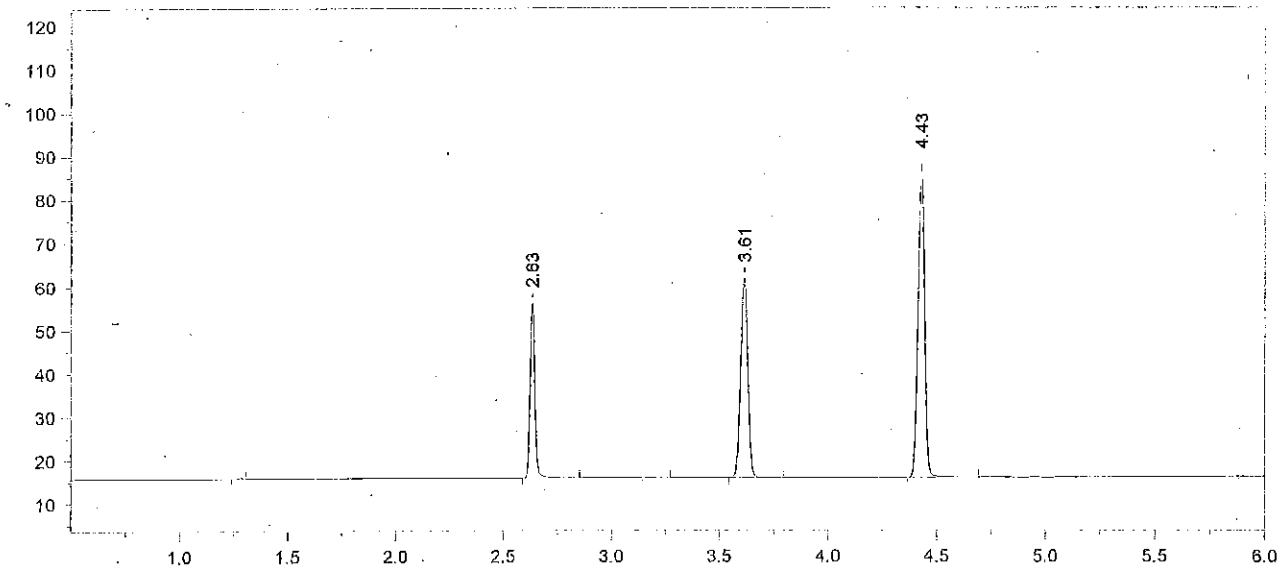


Format File Name = AlcoholVFL.FMT

Today's Date = 6/3/2013
Today's Time = 7:11:33 AM
Bound File Name = SIM05312013.0007.RAW
Sample Name = STD E
Date Taken = 5/31/2013 4:04:26 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	300381	0.4047
4	3.61	t-Butanol	97361	0.9790
5	4.42	n-Propanol	145854	1.0000

13-11-160 49 [illegible]



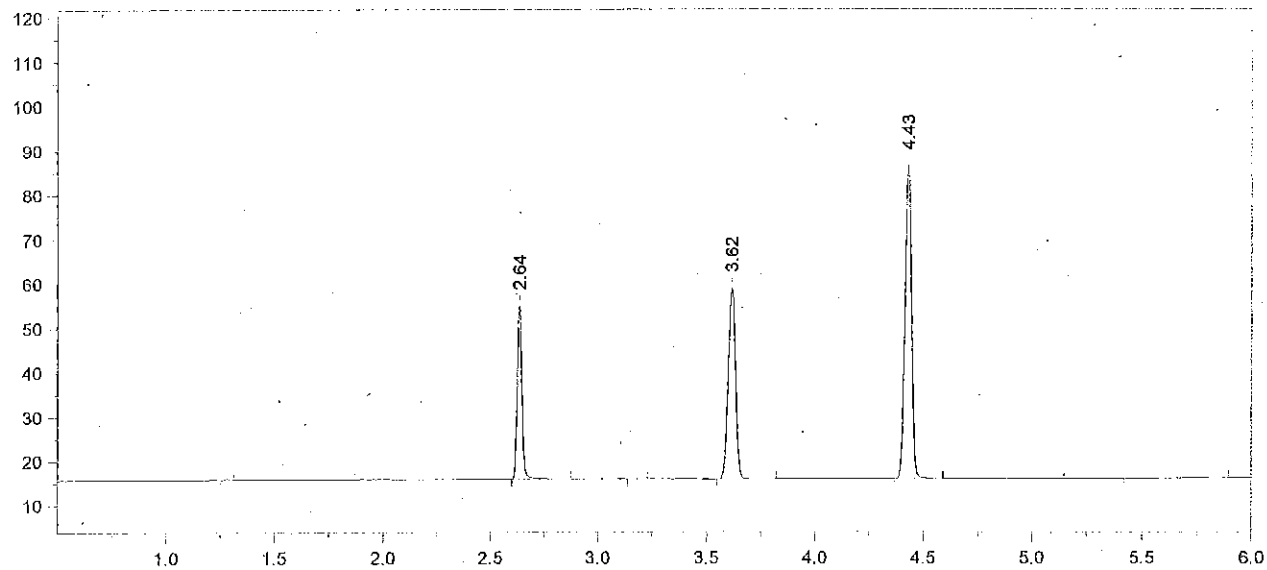
Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 4:20:42 PM
Bound File Name = SIM05312013.0008.RAW
Sample Name = AQ QC
Date Taken = 5/31/2013 4:20:35 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	61430	0.0793
4	3.61	t-Butanol	105825	1.0191
5	4.43	n-Propanol	152297	1.0000

13-11-160 JU

Chrom Perfect Chromatogram Report



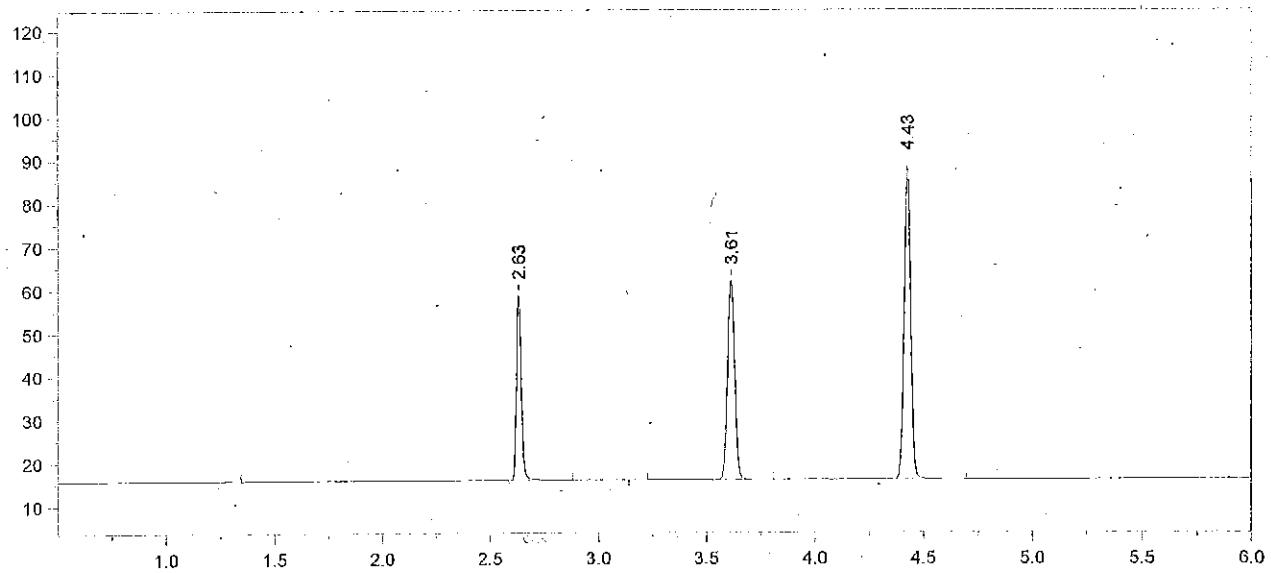
Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 4:34:17 PM
Bound File Name = SIM05312013.0009.RAW
Sample Name = AQ QC
Date Taken = 5/31/2013 4:34:08 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	60130	0.0791
4	3.62	t-Butanol	99674	0.9791
5	4.43	n-Propanol	149303	1.0000

Avg vials 8 & 9 0.079
6/4/13 [illegible]

13-11-160 51 [illegible]

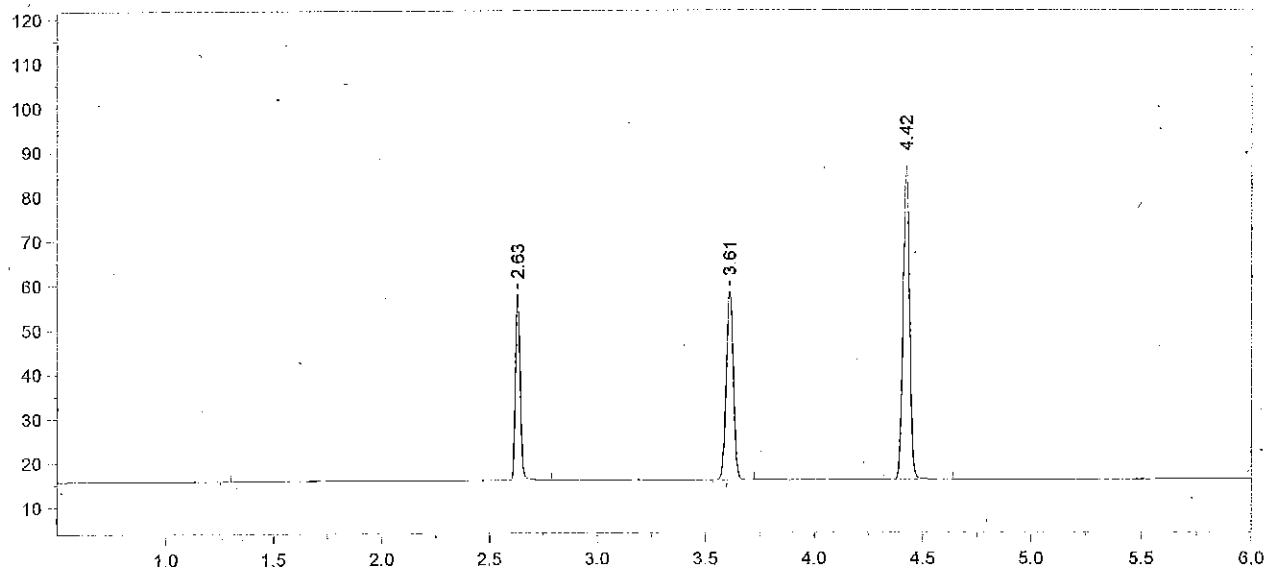


Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 4:50:27 PM
Bound File Name = SIM05312013.0010.RAW
Sample Name = CCS
Date Taken = 5/31/2013 4:50:19 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	65311	0.0839
4	3.61	t-Butanol	106304	1.0188
5	4.43	n-Propanol	153042	1.0000

13-11-160 52 [illegible]



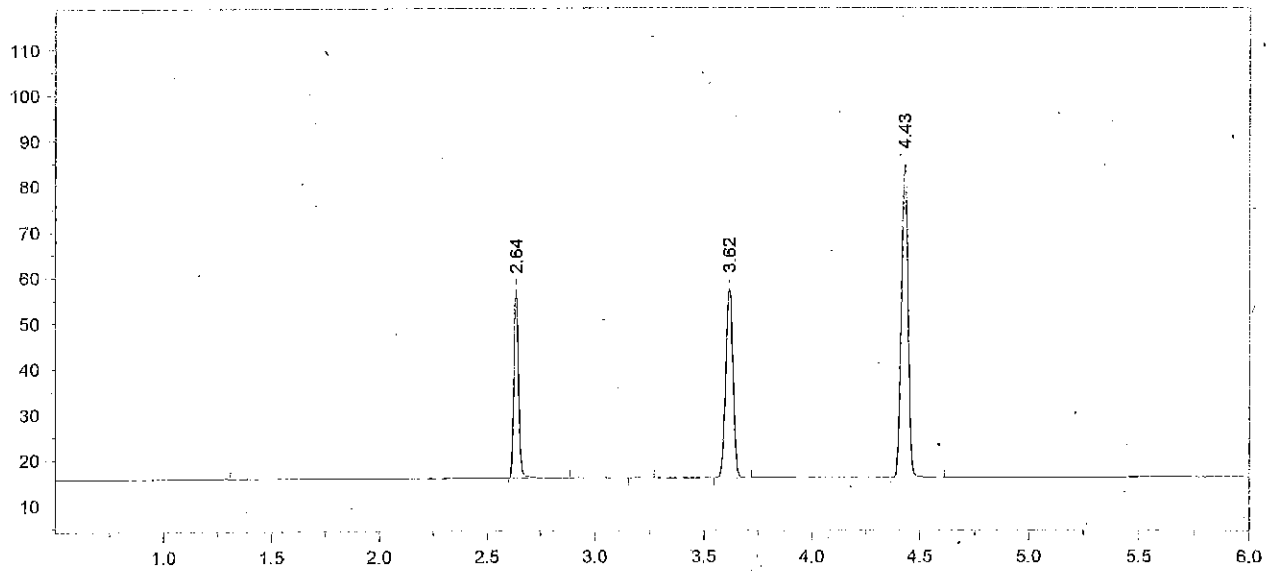
Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 5:05:42 PM
Bound File Name = SIM05312013.0011.RAW
Sample Name = CCS
Date Taken = 5/31/2013 5:05:35 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	63574	0.0842
3	3.61	t-Butanol	97793	0.9669
4	4.42	n-Propanol	148340	1.0000

Avg vials 10 & 11 0.084
6/4/13 [illegible]

13-11-160 53 [illegible]

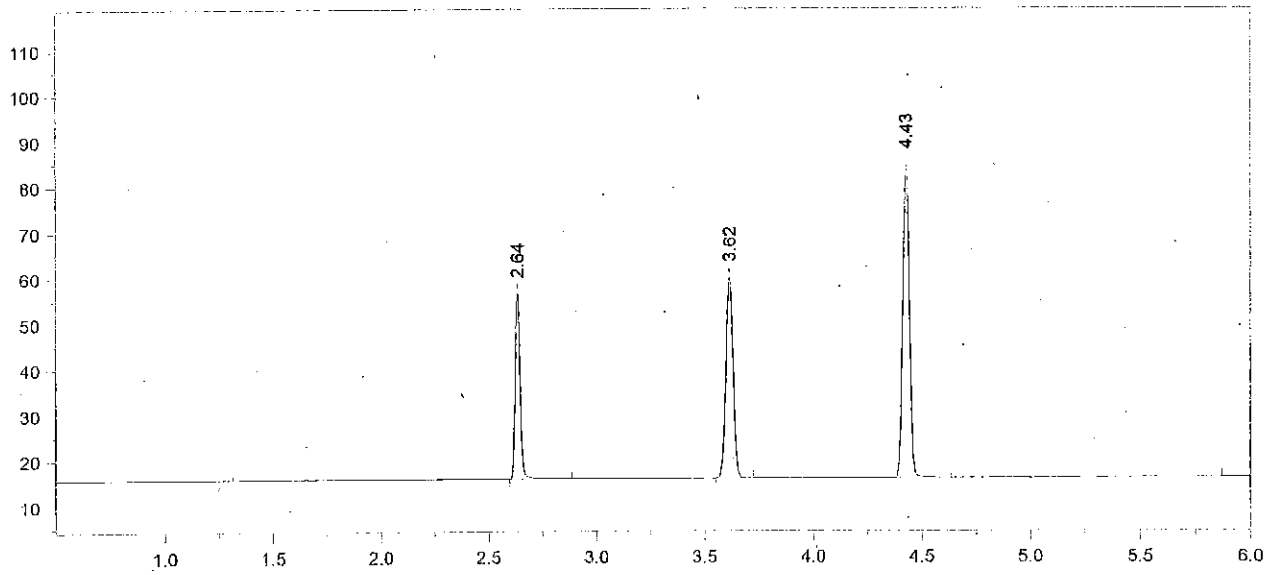


Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 7:10:05 PM
Bound File Name = SIM05312013.0019.RAW
Sample Name = CCS
Date Taken = 5/31/2013 7:09:57 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	63018	0.0859
4	3.62	t-Butanol	95295	0.9694
5	4.43	n-Propanol	144185	1.0000

13-11-160 54 DLB



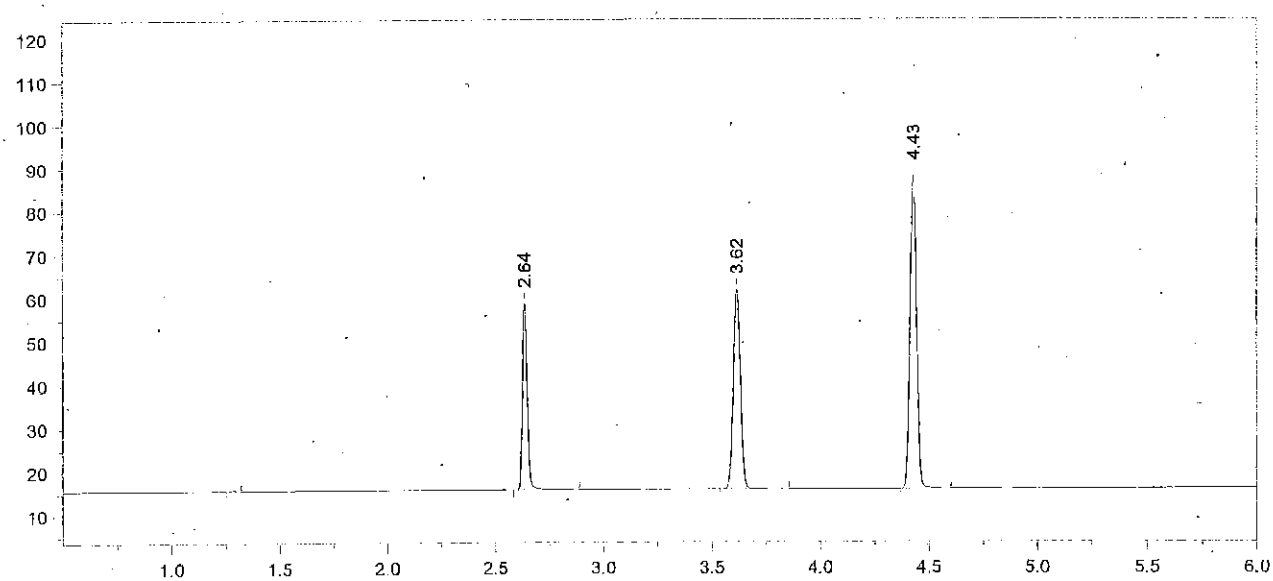
Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 7:27:35 PM
Bound File Name = SIM05312013.0020.RAW
Sample Name = CCS
Date Taken = 5/31/2013 7:27:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	62125	0.0841
3	3.62	t-Butanol	101204	1.0224
4	4.43	n-Propanol	145178	1.0000

Avg vials 19 & 20 0.085 6/4/13
[illegible]

13-11-160 55 [illegible]

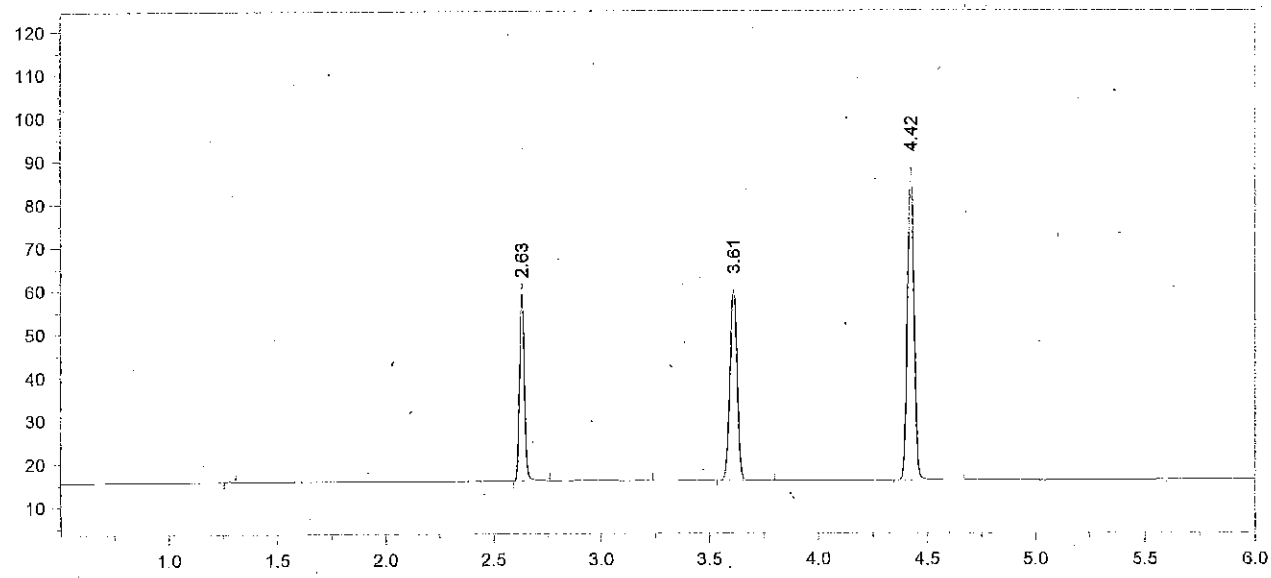


Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 9:31:46 PM
Bound File Name = SIM05312013.0028.RAW
Sample Name = CCS
Date Taken = 5/31/2013 9:31:38 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.64	Ethanol	65407	0.0842
3	3.62	t-Butanol	106359	1.0222
4	4.43	n-Propanol	152607	1.0000

13-11-160 56 -Ger3



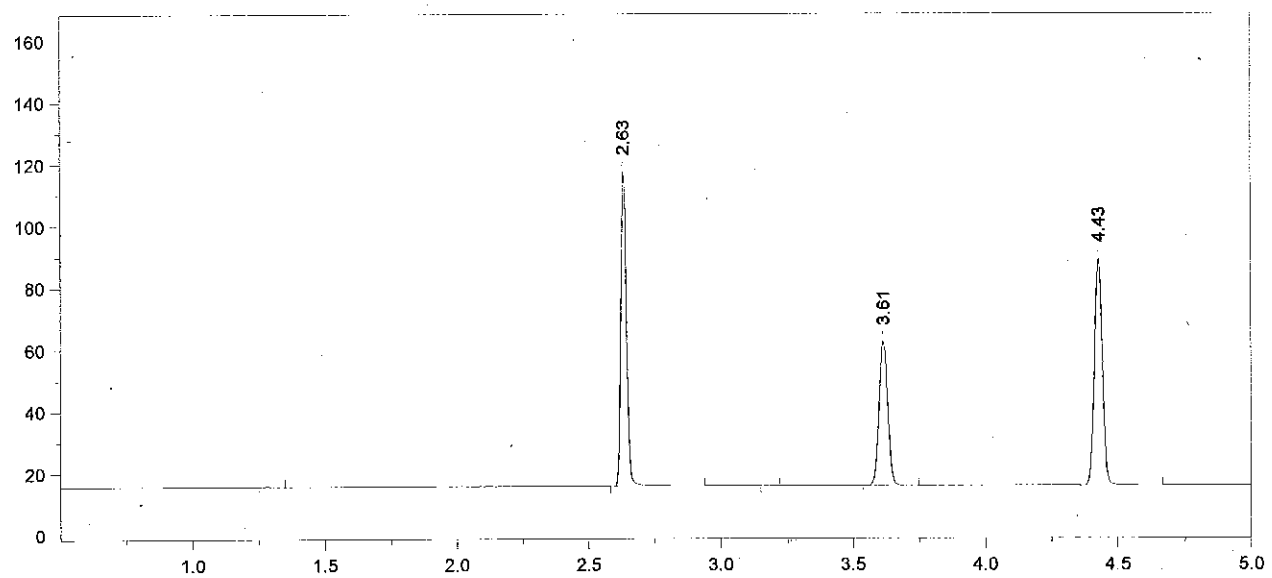
Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 9:45:38 PM
Bound File Name = SIM05312013.0029.RAW
Sample Name = CCS
Date Taken = 5/31/2013 9:45:28 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	65708	0.0846
4	3.61	t-Butanol	102009	0.9797
5	4.42	n-Propanol	152708	1.0000

Avg vials 28 & 29 0.084 [illegible] 6/4/13

13-11-160 57 [illegible]

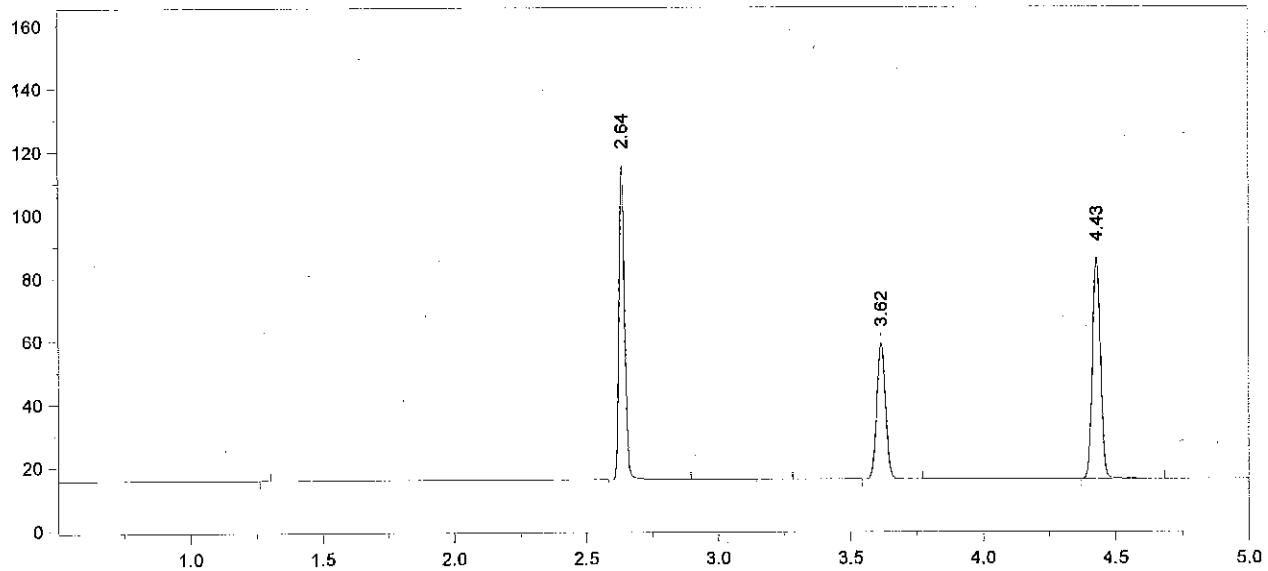


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/31/2013
Today's Time = 10:03:09 PM
Bound File Name = SIM05312013.0030.RAW
Sample Name = 0.16 RLM
Date Taken = 5/31/2013 10:03:02 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	153123	0.1944	0.1586
4	3.61	t-Butanol	107437	1.0179	0.8308
5	4.43	n-Propanol	154807	1.0000	0.8162

13-11-160 58

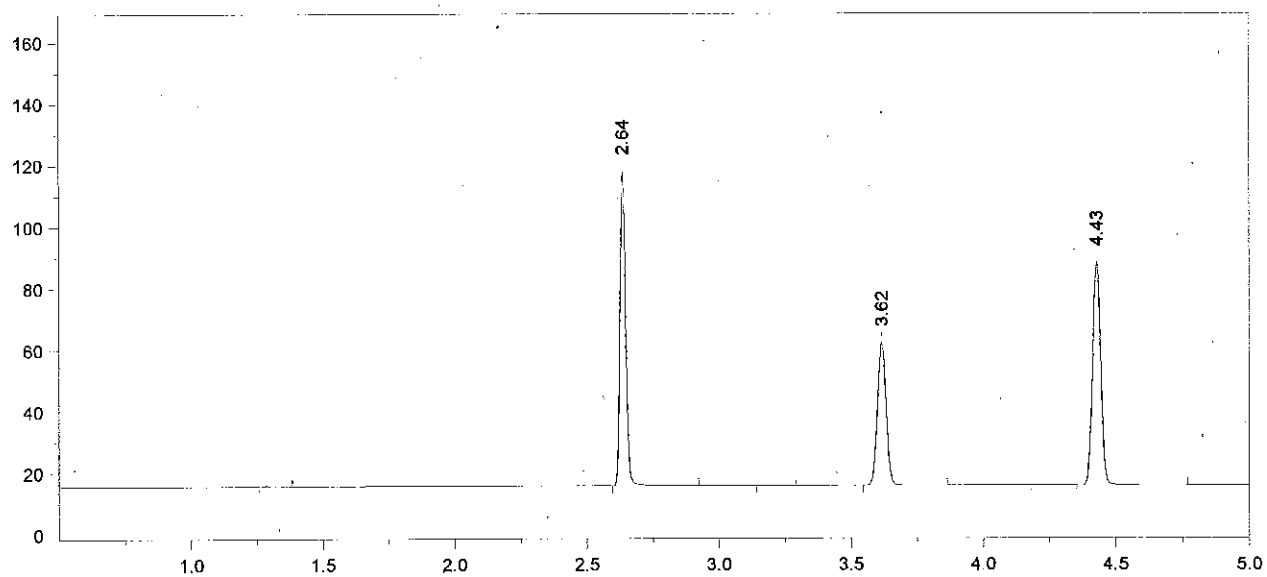


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/31/2013
Today's Time = 10:16:55 PM
Bound File Name = SIM05312013.0031.RAW
Sample Name = 0.16 RLM
Date Taken = 5/31/2013 10:16:48 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	149795	0.1983	0.1618
4	3.62	t-Butanol	99066	0.9788	0.7989
5	4.43	n-Propanol	148447	1.0000	0.8162

13-11-160 59 CLB



Format File Name = simsoln-JFH.met.FMT

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Today's Time = 10:32:53 PM
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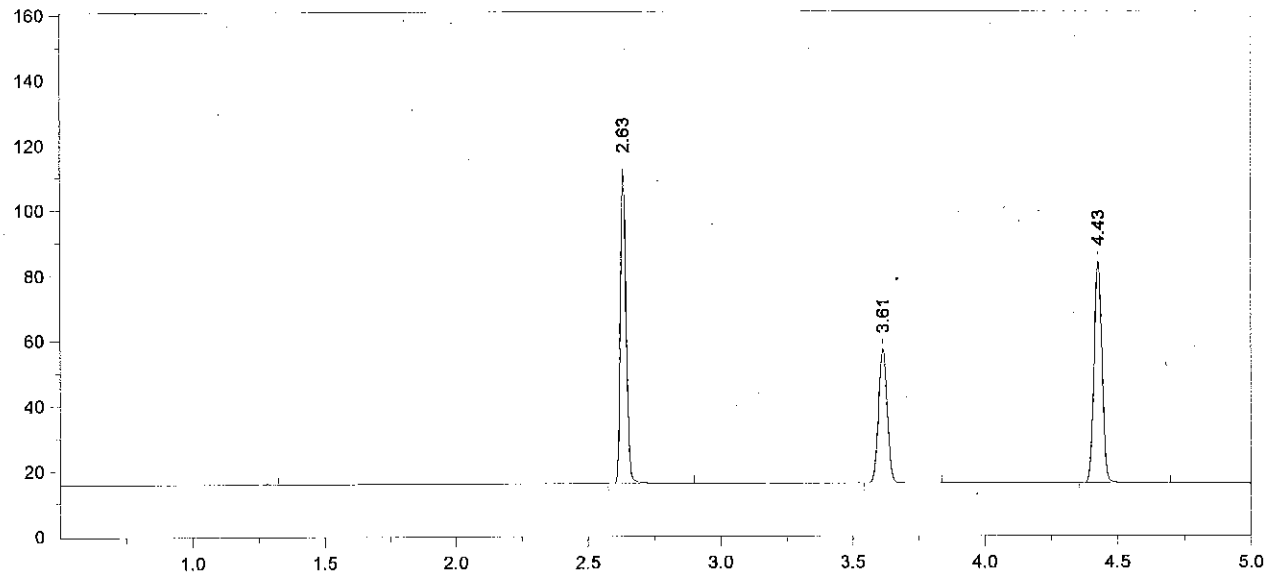
Sample Name = 0.16 RLM
Date Taken = 5/31/2013 10:32:46 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	153177	0.1947	0.1589
4	3.62	t-Butanol	107025	1.0151	0.8285
5	4.43	n-Propanol	154639	1.0000	0.8162

13-11-160 60 Ok 3



Format File Name = simsoln-JFH.met.FMT

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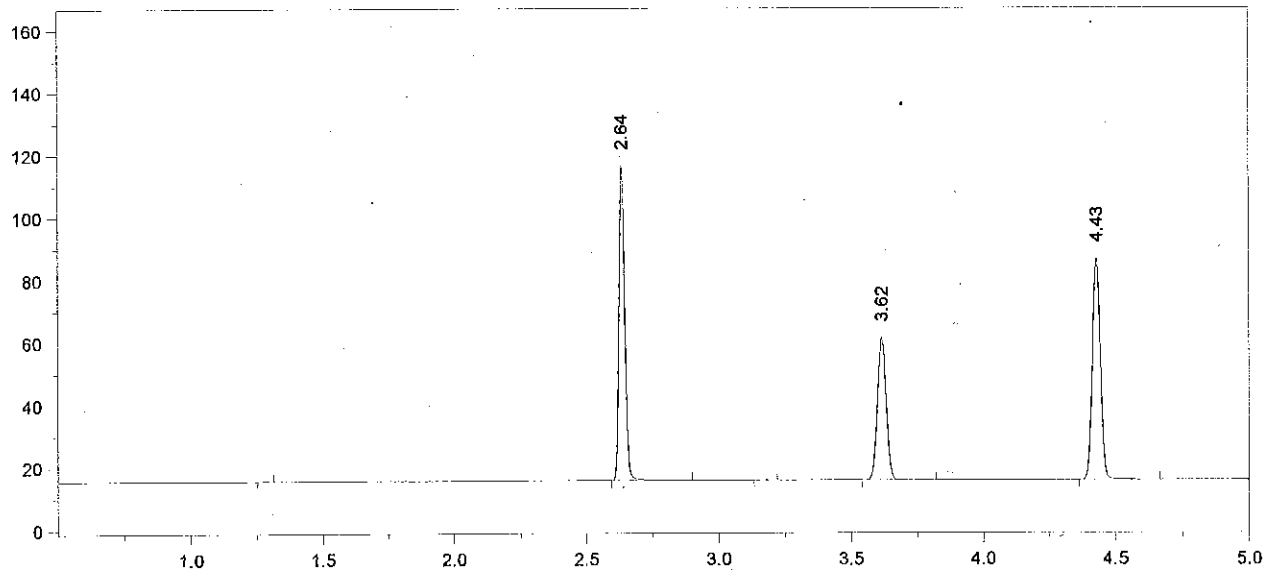
Bound File Name = SIM05312013.0033.RAW
Sample Name = 0.16 RLM
Date Taken = 5/31/2013 10:48:10 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	145499	0.1993	0.1627
3	3.61	t-Butanol	94962	0.9711	0.7926
4	4.43	n-Propanol	143426	1.0000	0.8162

13-11-160 61



Format File Name = simsoln-JFH.met.FMT

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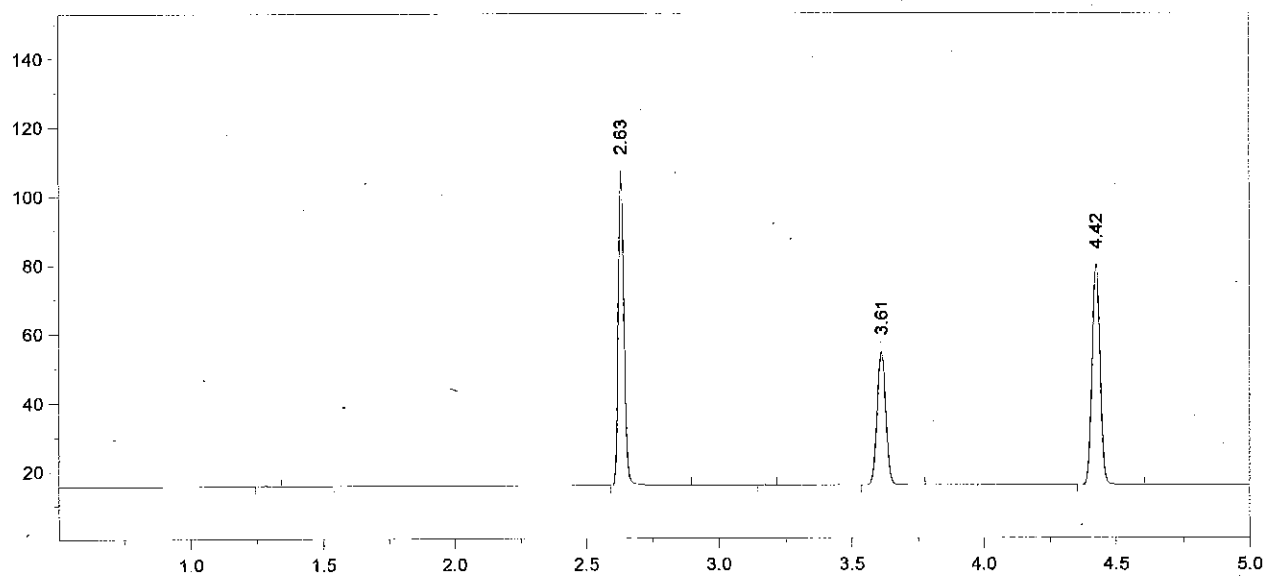
Bound File Name = SIM05312013.0034.RAW
Sample Name = 0.16 RLM
Date Taken = 5/31/2013 11:04:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	150652	0.1965	0.1604
4	3.62	t-Butanol	104847	1.0208	0.8332
5	4.43	n-Propanol	150639	1.0000	0.8162

13-11-160 62 de B



Format File Name = simsoln-JFH.met.FMT

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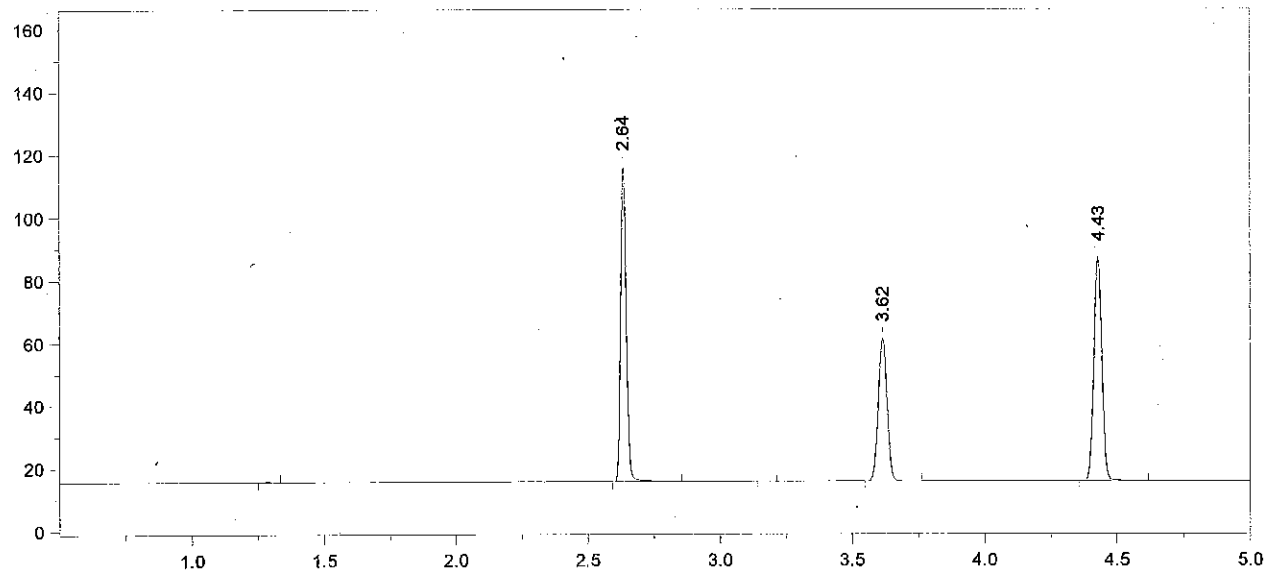
Sample Name = 0.16 RLM
Date Taken = 5/31/2013 11:18:29 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	137248	0.1993	0.1626
4	3.61	t-Butanol	89813	0.9733	0.7944
5	4.42	n-Propanol	135345	1.0000	0.8162

13-11-160 63 -Ex3

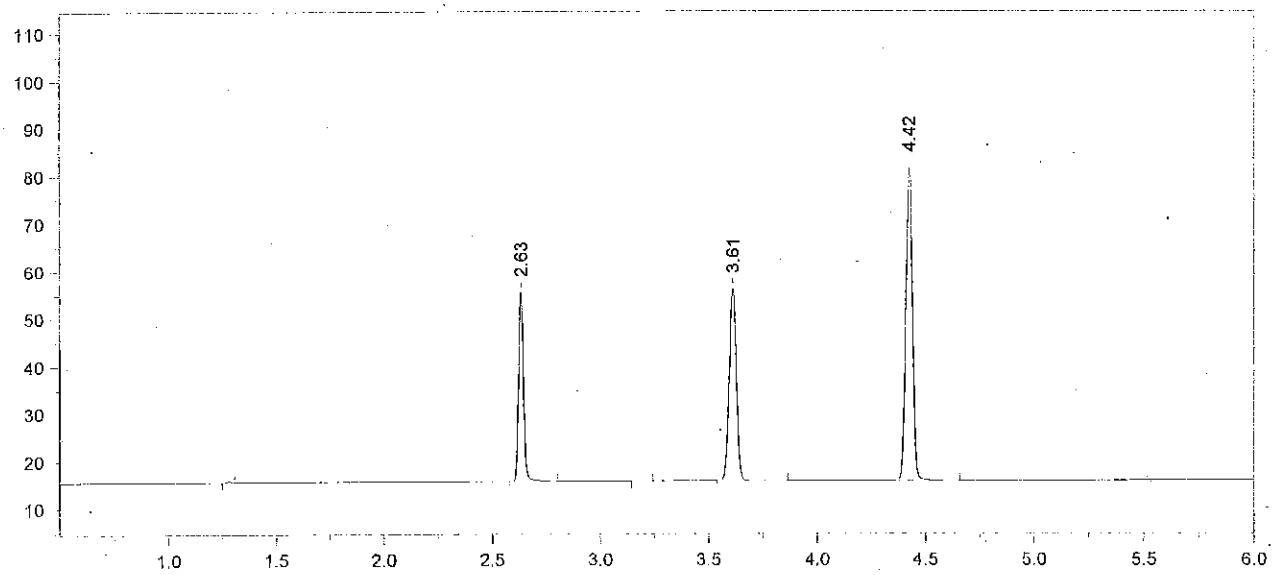


Format File Name = simsoln-JFH.met.FMT

Today's Date = 5/31/2013
Today's Time = 11:35:51 PM
Bound File Name = SIM05312013.0036.RAW
Sample Name = 0.16 RLM
Date Taken = 5/31/2013 11:35:45 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	150654	0.1958	0.1598
4	3.62	t-Butanol	105425	1.0226	0.8346
5	4.43	n-Propanol	151212	1.0000	0.8162

13-11-160 64 [illegible]



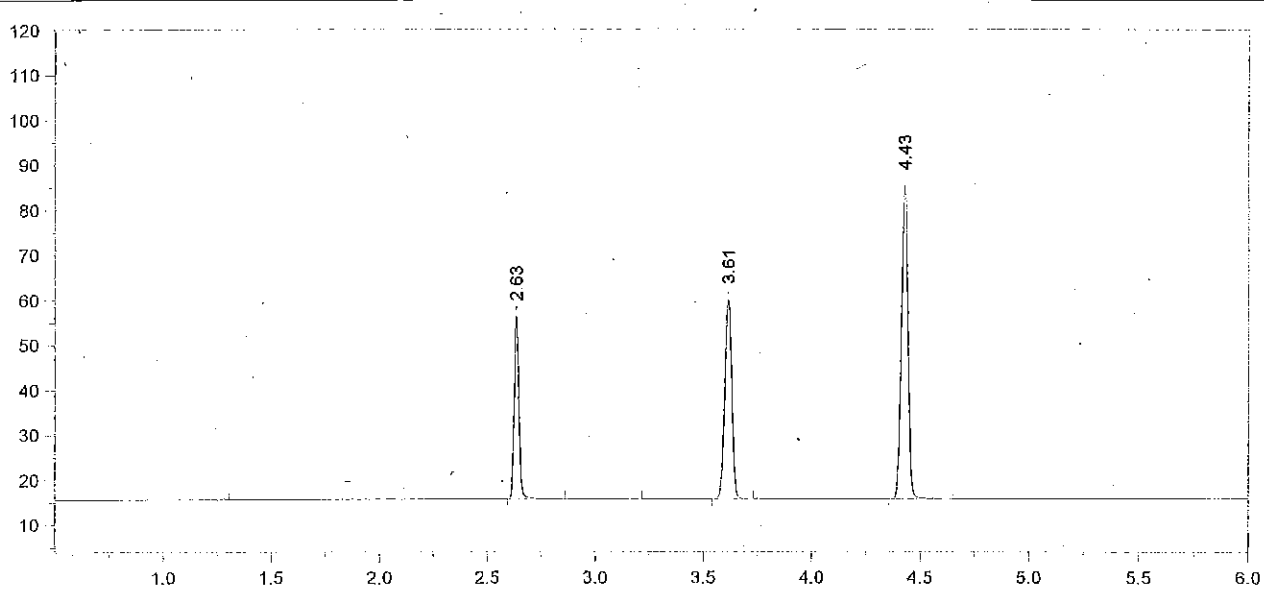
Format File Name = AlcoholVFL.FMT

Today's Date = 5/31/2013
Today's Time = 11:49:36 PM
Bound File Name = SIM05312013.0037.RAW
Sample Name = CCS
Date Taken = 5/31/2013 11:49:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	60488	0.0857
4	3.61	t-Butanol	93405	0.9878
5	4.42	n-Propanol	138692	1.0000

13-11-160 65 ELB

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

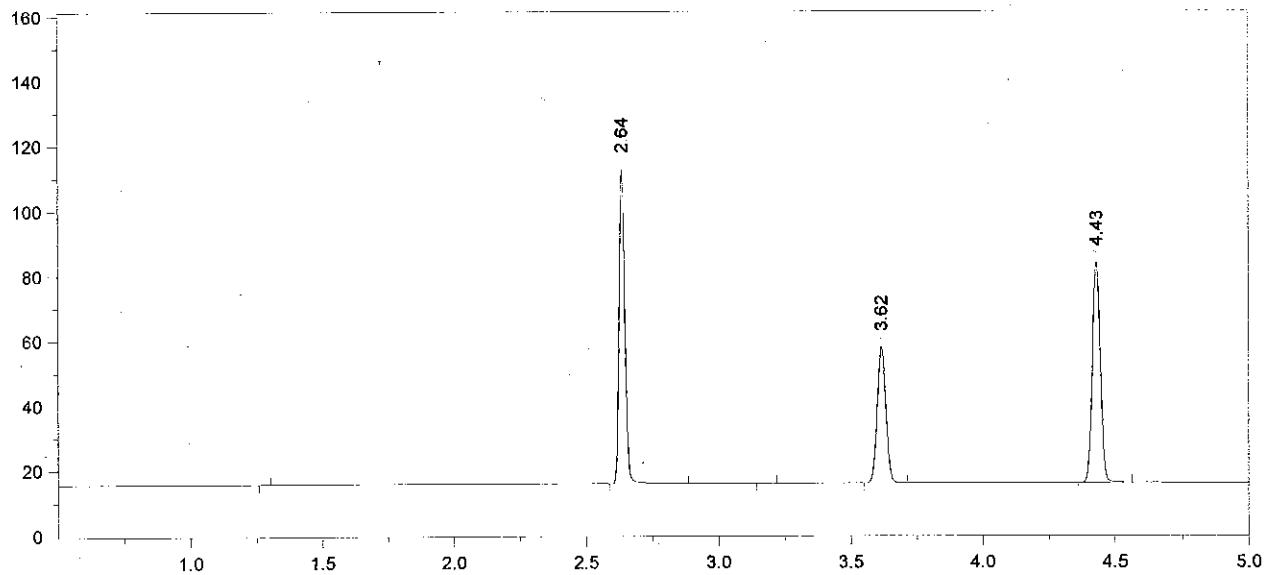
Today's Date = 6/1/2013
Today's Time = 12:07:16 AM
Bound File Name = SIM05312013.0038.RAW
Sample Name = CCS
Date Taken = 6/1/2013 12:07:12 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	62054	0.0834
4	3.61	t-Butanol	102376	1.0275
5	4.43	n-Propanol	146131	1.0000

Avg vials 37 & 38 0.084
6/4/13 [illegible]

13-11-160 66 [illegible]

Chrom Perfect Chromatogram Report

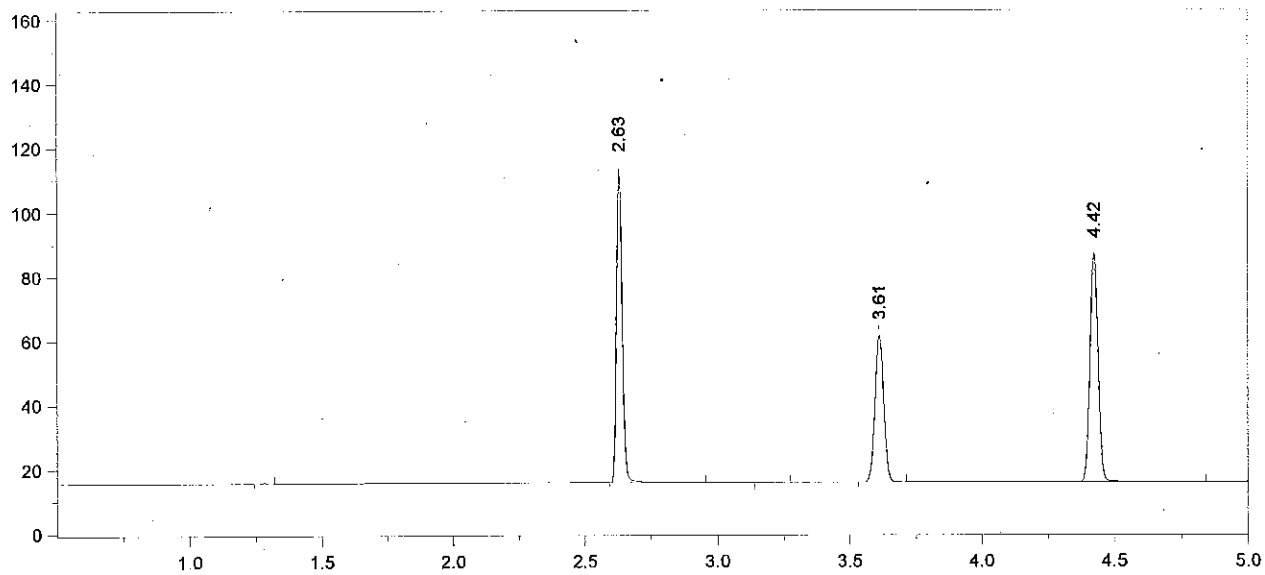


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/1/2013
Today's Time = 12:20:34 AM
Bound File Name = SIM05312013.0039.RAW
Sample Name = 0.16 ALB
Date Taken = 6/1/2013 12:20:27 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	145400	0.1993	0.1626
4	3.62	t-Butanol	96260	0.9847	0.8037
5	4.43	n-Propanol	143381	1.0000	0.8162

13-11-160 67 [illegible]



Format File Name = simsoln-JFH.met.FMT

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Today's Time = 12:37:02 AM
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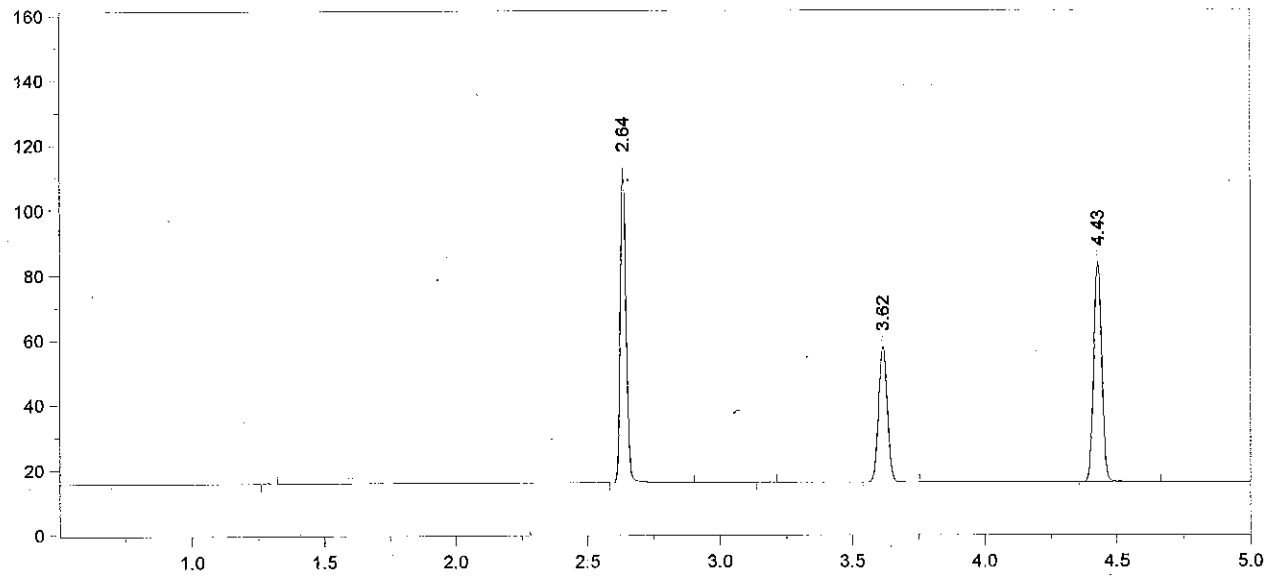
Sample Name = 0.16 ALB
Date Taken = 6/1/2013 12:36:56 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	147869	0.1932	0.1577
4	3.61	t-Butanol	104974	1.0235	0.8354
5	4.42	n-Propanol	150424	1.0000	0.8162

13-11-160 68



Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/1/2013
Today's Time = 12:52:37 AM
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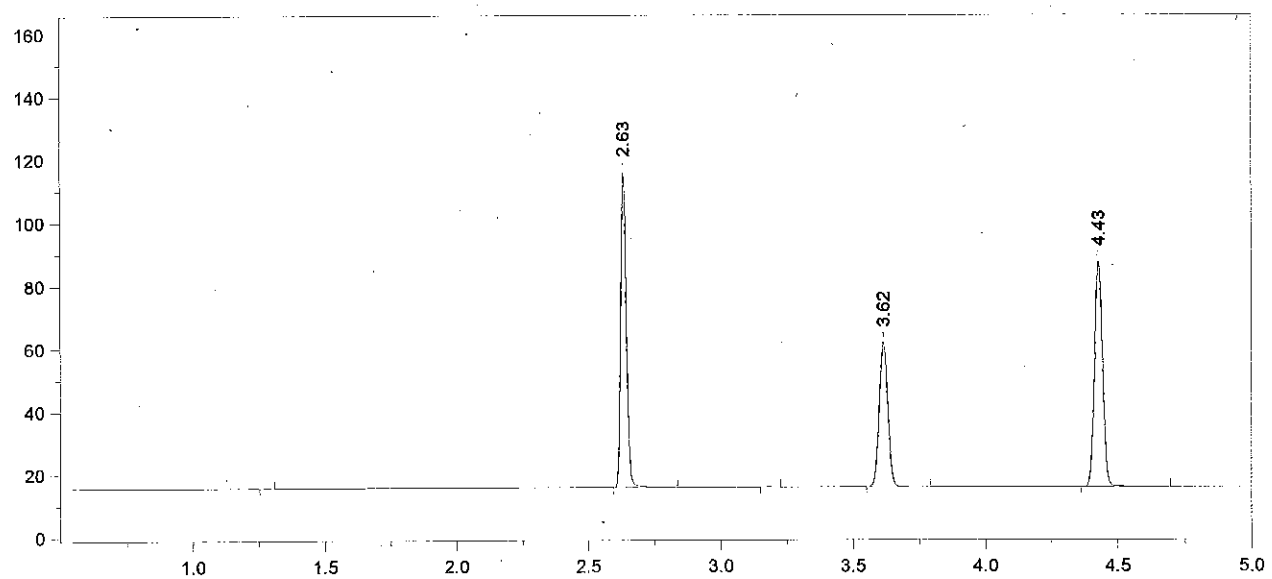
Sample Name = 0.16 ALB
Date Taken = 6/1/2013 12:52:27 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	146633	0.2007	0.1638
4	3.62	t-Butanol	96098	0.9815	0.8011
5	4.43	n-Propanol	143598	1.0000	0.8162

13-11-160 69 443

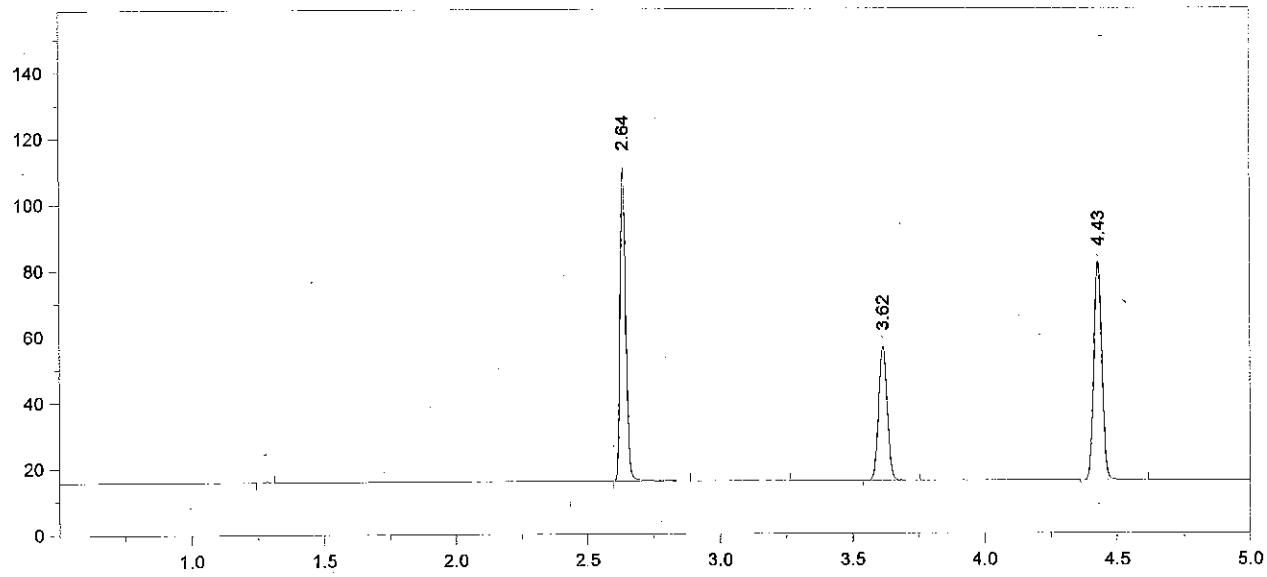


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/1/2013
Today's Time = 1:06:49 AM
Bound File Name = SIM05312013.0042.RAW
Sample Name = 0.16 ALB
Date Taken = 6/1/2013 1:06:45 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	150877	0.1954	0.1595
4	3.62	t-Butanol	105913	1.0238	0.8356
5	4.43	n-Propanol	151731	1.0000	0.8162

13-11-160 70 Ac 3

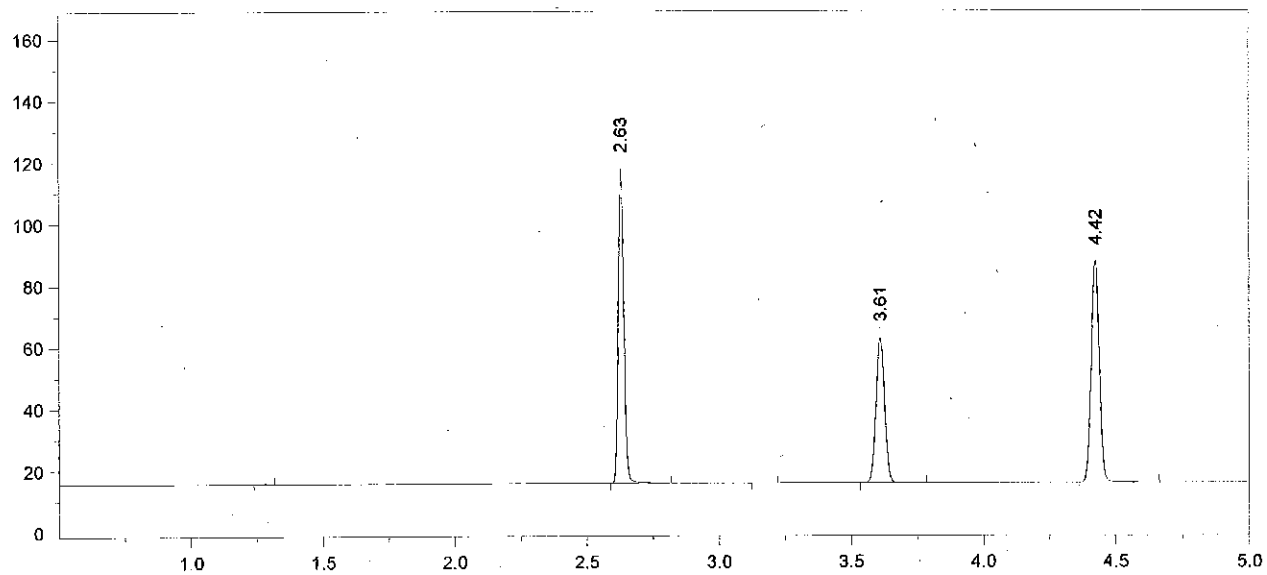


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/1/2013
Today's Time = 1:22:18 AM
Bound File Name = SIM05312013.0043.RAW
Sample Name = 0.16 ALB
Date Taken = 6/1/2013 1:22:11 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	143171	0.2008	0.1639
4	3.62	t-Butanol	93515	0.9790	0.7991
5	4.43	n-Propanol	140092	1.0000	0.8162

13-11-160 71

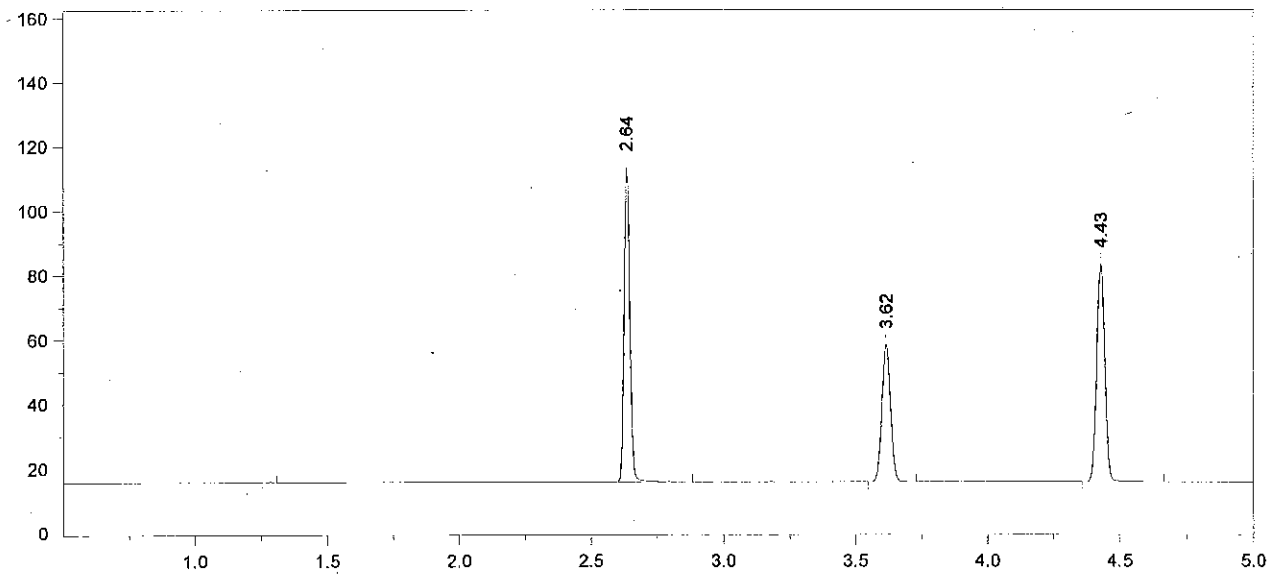


Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/1/2013
Today's Time = 1:38:52 AM
Bound File Name = SIM05312013.0044.RAW
Sample Name = 0.16 ALB
Date Taken = 6/1/2013 1:38:47 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.63	Ethanol	151790	0.1956	0.1597
4	3.61	t-Butanol	107813	1.0370	0.8464
5	4.42	n-Propanol	152488	1.0000	0.8162

13-11-160 72



Format File Name = simsoln-JFH.met.FMT

Today's Date = 6/1/2013
Today's Time = 1:52:39 AM
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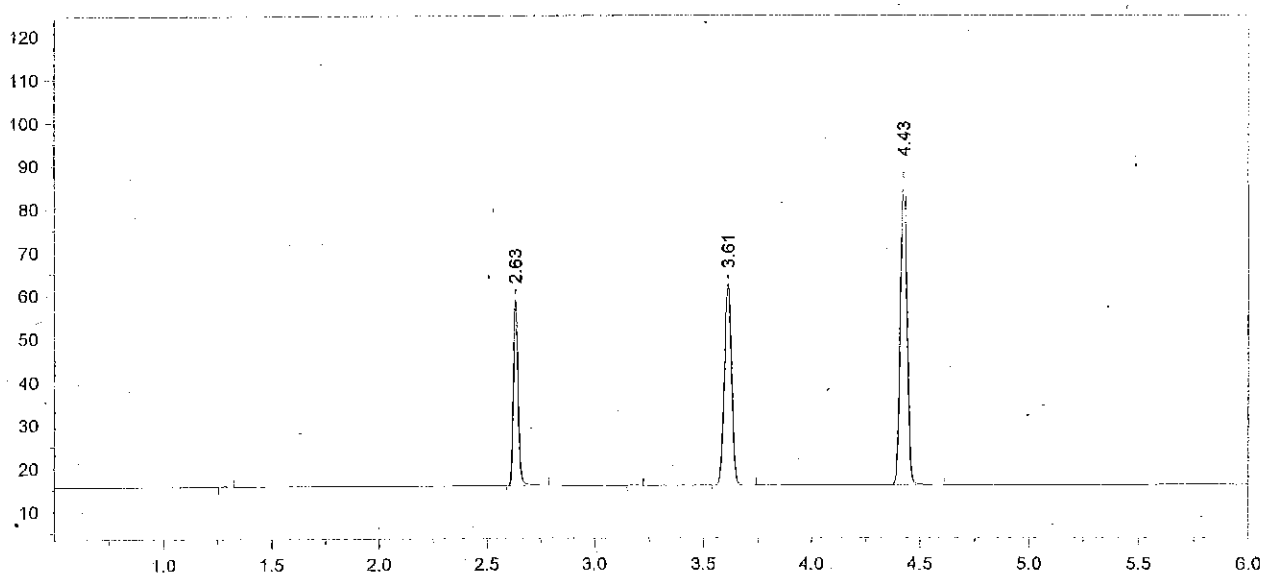
Sample Name = 0.16 ALB
Date Taken = 6/1/2013 1:52:35 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.64	Ethanol	146235	0.1994	0.1628
3	3.62	t-Butanol	97370	0.9912	0.8090
4	4.43	n-Propanol	144083	1.0000	0.8162

13-11-160 73



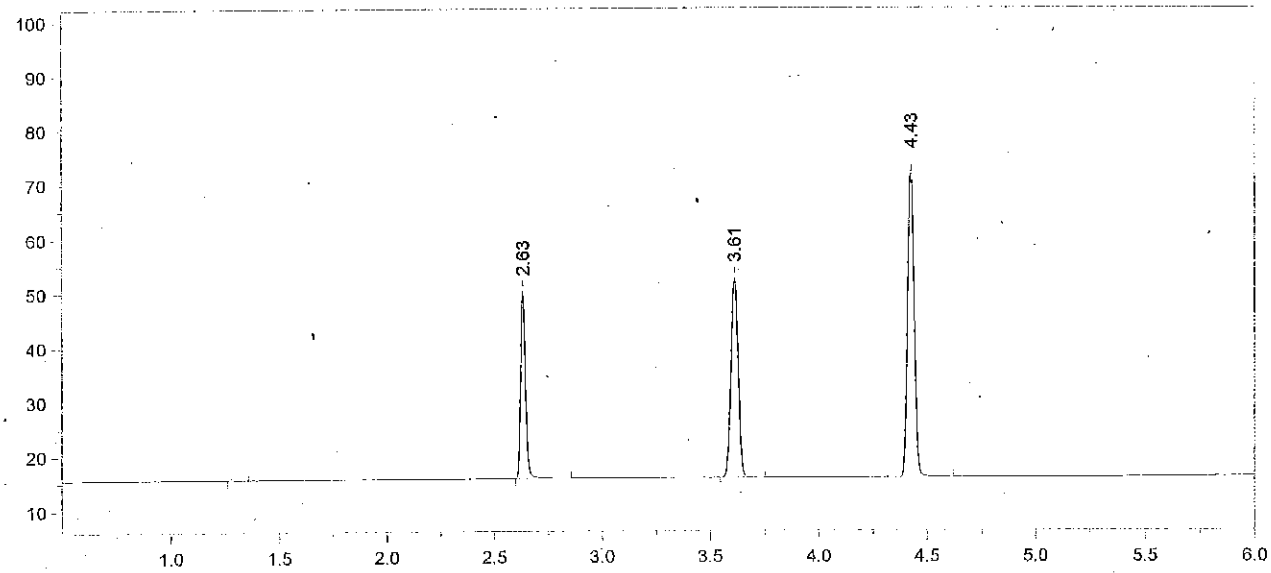
Format File Name = AlcoholVFL.FMT

Today's Date = 6/1/2013
Today's Time = 2:10:19 AM
Bound File Name = SIM05312013.0046.RAW
Sample Name = CCS
Date Taken = 6/1/2013 2:10:11 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	65073	0.0837
4	3.61	t-Butanol	106996	1.0272
5	4.43	n-Propanol	152770	1.0000

13-11-160 74

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 6/1/2013
Today's Time = 2:24:11 AM
Bound File Name = SIM05312013.0047.RAW
Sample Name = CCS
Date Taken = 6/1/2013 2:24:07 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM05312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.63	Ethanol	52349	0.0846
3	3.61	t-Butanol	84617	1.0205
4	4.43	n-Propanol	121617	1.0000

Avg vials 46 & 47 0.084
6/4/13

13-11-140 75