VERMONT FORENSIC LABORATORY

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http://vfl.vermont.gov

Certificate of Analysis of DataMaster Calibration Solution

On 12/30/2013, an ethanol solution was prepared by Amanda Bolduc for use as a DataMaster Calibration solution. The solution was prepared per standard laboratory practice and assigned the lot number 13-22-100 and an expiration date of 12/30/2014.

On 12/31/2013 and 1/2/2014, the solution was analyzed against calibration SIM12312013 and VFL01022014. 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 0.099 g/210L simulated breath ethanol concentration and approved for use as a DataMaster Calibration solution.

Dated at Waterbury, Vermont on Friday, January 03, 2014.

Rebecca Mead

Rebecca Mead

VERMONT FORENSIC LABORATORY

SIMULATOR SOLUTION
~~BLOOD ALCOHOL~~ DATA REVIEW CHECKLIST
RZM 1/3/14

LOT #
~~AGENCY CASE#~~: 13-22-100 **ANALYST:** RLM
LAB #: N/A RZM 1/3/14

TECHNICAL REVIEWER: [signature] **DATE:** 1/6/14

- [x] QC complete?
- [x] Pertinent standard lot numbers listed?
- [x] Data package is complete?
- [x] Transcribed data and calculations verified?
- [x] Calibration and control results all within ± 10% (± 20% for STD A) of the known values?
- [x] Calibration line correlation factor at least 0.99xx?
- [x] Average error for components of the calibration line less than 10%?
- [x] Timing mix chromatogram demonstrates appropriate identification of components and separation from ethanol?
- [x] Surrogate compound concentrations all within 0.900 to 1.100 range?
- [x] Statistical means of the continuing calibration check sample duplicate analysis all within ± 10% of the known value?
- [x] Individual replicates within ± 5% of the statistical mean?
- [x] Reported results are means of two or more analyses?
  1. In the event of QNS for 2 (two) analysis a notation must be made on the worksheet.
  2. In the event that more than 2 (two) results are used to determine the reported result a notation is made on the worksheet.

Comments:

ADMINISTRATIVE REVIEWER: [signature] **DATE:** 1/7/2014

- [x] Agency Case # and Lab # match submission form?
- [x] Submitting agency, investigator, suspect, CC match submission form?
- [x] Chain of Custody is complete and dated appropriately?
- [x] Are all pages numbered and initialed on the Examination Documents?
- [x] Case number written on all pages of the case file (Either agency or lab #)?
- [x] Is the exam end date documented in the paper case file consistent with the exam end date in LIMS?

Comments:

DIRECTOR REVIEWER: [signature] **DATE:** 1/7/2014

- [x] Does the report and associated paperwork meet administrative expectations?
- [x] Have the appropriate technical and administrative reviews been completed?

Check Mark or X = pass, NA= Not Applicable

0.1 Calibration Solution 2L
Lot # 13-22-100
Prepared 12/30/2013 by ALB
Exp 12/30/2014

RLM CAL SIM12312013
RLM/ALB Vials
Analyzed on12/31/2013

0.0981 rlm
0.1007
0.0978
0.0997
0.0976
0.1000
0.0979
0.1008 alb
0.0985
0.1014
0.0992
0.1013
0.0983
0.1007

Ave. = 0.0994
Std Dev. = 0.0014
Range = 0.0976-0.1014

RLM CAL VFL01022014
RLM/ALB Vials
Analyzed on 1/2/2014

0.0973 rlm
0.0991
0.0979
0.0996
0.0967
0.0992
0.0966
0.1011 alb
0.0997
0.1013
0.0985
0.1008
0.0985
0.0989

Ave. = 0.0989
Std Dev. = 0.0015
Range = 0.0966-0.1013

Total Values from Both Runs

Average	Mean
0.0981	0.0966
0.1007	0.0967
0.0978	0.0973
0.0997	0.0976
0.0976	0.0978
0.1000	0.0979
0.0979	
0.1008	0.0981
0.0985	0.0983
0.1014	0.0985
0.0992	
0.1013	
0.0983	0.0989
0.1007	0.0991
0.0973	0.0992
0.0991	
0.0979	0.0996
0.0996	0.0997
0.0967	
0.0992	0.1000
0.0966	0.1007
0.1011	
0.0997	0.1008
0.1013	
0.0985	0.1011
0.1008	0.1013
0.0985	
0.0989	0.1014

Ave. = 0.0992
Avg Std Dev. = 0.0014
Mean = 0.0990
Mean Std Dev. = 0.0015
Range = 0.0966-0.1014
RPD = 4.84%

File Name: C:\Methods\SIM12312013.CAL
Version: 7

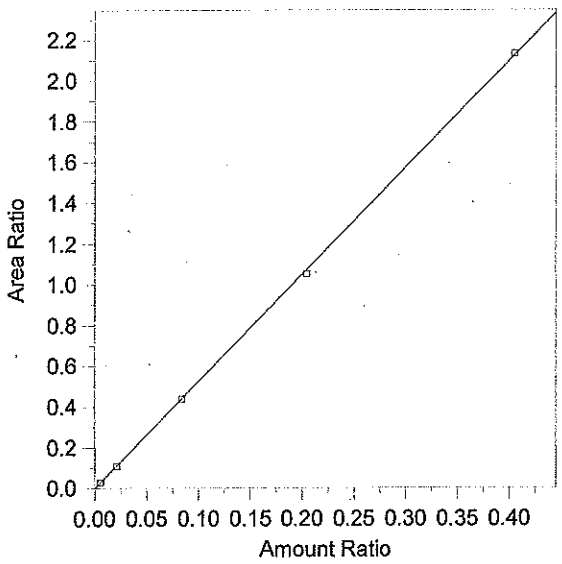
Creator:
Description:
Reason for change:

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:	2.653 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 = 5.24609 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998344
Average error:	1.975%
Average CF:	5.261956
RSD:	2.899%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.091)	(85146)	--	--	0.091	85146	Manual	8/12/2013 4:03:34 PM
2	0.0053	6560.257	1237784	5.203	0.0053	2.925082E-02	C:\Alcohol Data\SIM12312013\SIM12312013.0003.BND	12/31/2013 3:39:40 PM
3	0.0211	22329.35	1058263	-1.836	0.0211	0.1086599	C:\Alcohol Data\SIM12312013\SIM12312013.0004.BND	12/31/2013 3:55:39 PM
4	0.0841	87978.38	1046116	-0.522	0.0841	0.4388919	C:\Alcohol Data\SIM12312013\SIM12312013.0005.BND	12/31/2013 4:11:15 PM
5	0.2043	219716.9	1075462	-1.823	0.2043	1.052236	C:\Alcohol Data\SIM12312013\SIM12312013.0006.BND	12/31/2013 4:25:32 PM
6	0.4047	486276.4	1201573	0.491	0.4047	2.133523	C:\Alcohol Data\SIM12312013\SIM12312013.0007.BND	12/31/2013 4:41:47 PM

ES: ES-12202013
IS: IS-10312013
TMX: TMX-08122013
AQQC ~~LOT~~: FN021111-03 (Certificant)
RZM 1/2/14 RZM 1/2/14 RZM 1/3/14

13-22-100 2 RZM

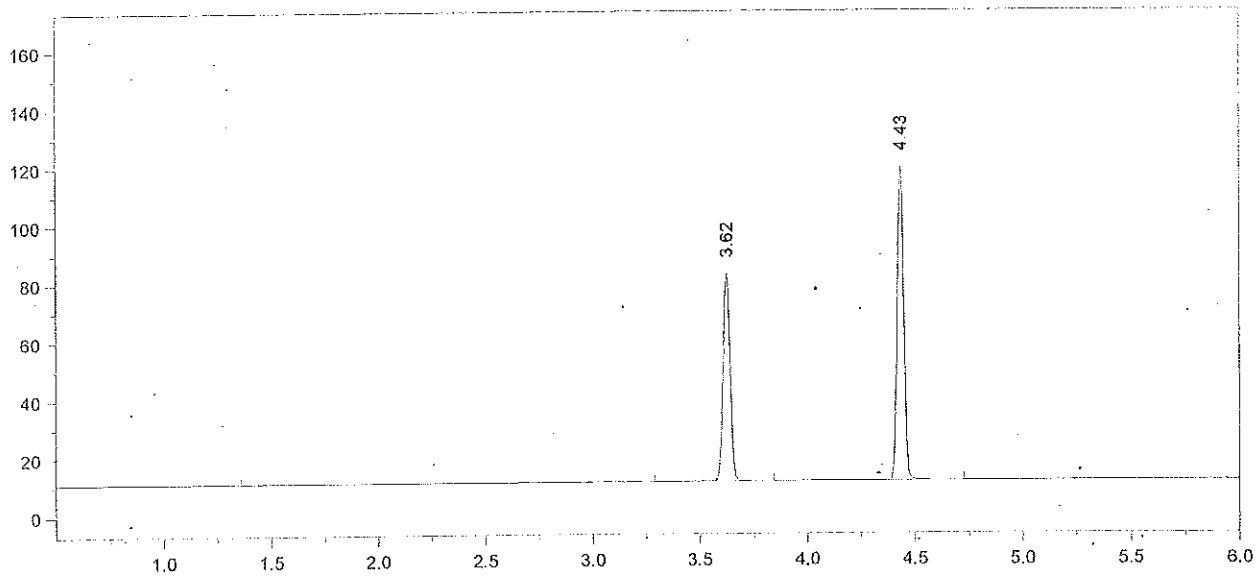
File Name = C:\Alcohol Data\SIM12312013\SIM12312013.SEQ
Version = 1
File Date = 12/31/2013 2:24:50 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	SIM12312013.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	SIM12312013.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	SIM12312013.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	SIM12312013.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	SIM12312013.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	SIM12312013.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	SIM12312013.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	SIM12312013.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	SIM12312013.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	SIM12312013.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	SIM12312013.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	SIM12312013.0012.raw	simsoln.met	13-21-100 RLM	1.00	1.00
13	SIM12312013.0013.raw	simsoln.met	13-21-100 RLM	1.00	1.00
14	SIM12312013.0014.raw	simsoln.met	13-21-100 RLM	1.00	1.00
15	SIM12312013.0015.raw	simsoln.met	13-21-100 RLM	1.00	1.00
16	SIM12312013.0016.raw	simsoln.met	13-21-100 RLM	1.00	1.00
17	SIM12312013.0017.raw	simsoln.met	13-21-100 RLM	1.00	1.00
18	SIM12312013.0018.raw	simsoln.met	13-21-100 RLM	1.00	1.00
19	SIM12312013.0019.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
20	SIM12312013.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	SIM12312013.0021.raw	simsoln.met	13-21-100 ALB	1.00	1.00
22	SIM12312013.0022.raw	simsoln.met	13-21-100 ALB	1.00	1.00
23	SIM12312013.0023.raw	simsoln.met	13-21-100 ALB	1.00	1.00
24	SIM12312013.0024.raw	simsoln.met	13-21-100 ALB	1.00	1.00
25	SIM12312013.0025.raw	simsoln.met	13-21-100 ALB	1.00	1.00
26	SIM12312013.0026.raw	simsoln.met	13-21-100 ALB	1.00	1.00
27	SIM12312013.0027.raw	simsoln.met	13-21-100 ALB	1.00	1.00
28	SIM12312013.0028.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
29	SIM12312013.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	SIM12312013.0030.raw	simsoln.met	13-22-100 RLM	1.00	1.00
31	SIM12312013.0031.raw	simsoln.met	13-22-100 RLM	1.00	1.00
32	SIM12312013.0032.raw	simsoln.met	13-22-100 RLM	1.00	1.00
33	SIM12312013.0033.raw	simsoln.met	13-22-100 RLM	1.00	1.00
34	SIM12312013.0034.raw	simsoln.met	13-22-100 RLM	1.00	1.00
35	SIM12312013.0035.raw	simsoln.met	13-22-100 RLM	1.00	1.00
36	SIM12312013.0036.raw	simsoln.met	13-22-100 RLM	1.00	1.00
37	SIM12312013.0037.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
38	SIM12312013.0038.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
39	SIM12312013.0039.raw	simsoln.met	13-22-100 ALB	1.00	1.00
40	SIM12312013.0040.raw	simsoln.met	13-22-100 ALB	1.00	1.00
41	SIM12312013.0041.raw	simsoln.met	13-22-100 ALB	1.00	1.00
42	SIM12312013.0042.raw	simsoln.met	13-22-100 ALB	1.00	1.00
43	SIM12312013.0043.raw	simsoln.met	13-22-100 ALB	1.00	1.00
44	SIM12312013.0044.raw	simsoln.met	13-22-100 ALB	1.00	1.00
45	SIM12312013.0045.raw	simsoln.met	13-22-100 ALB	1.00	1.00
46	SIM12312013.0046.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
47	SIM12312013.0047.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

13-21-100 not included RZM 1/3/14

13-21-100 not included RZM 1/3/14

13-22-100 3 RZM

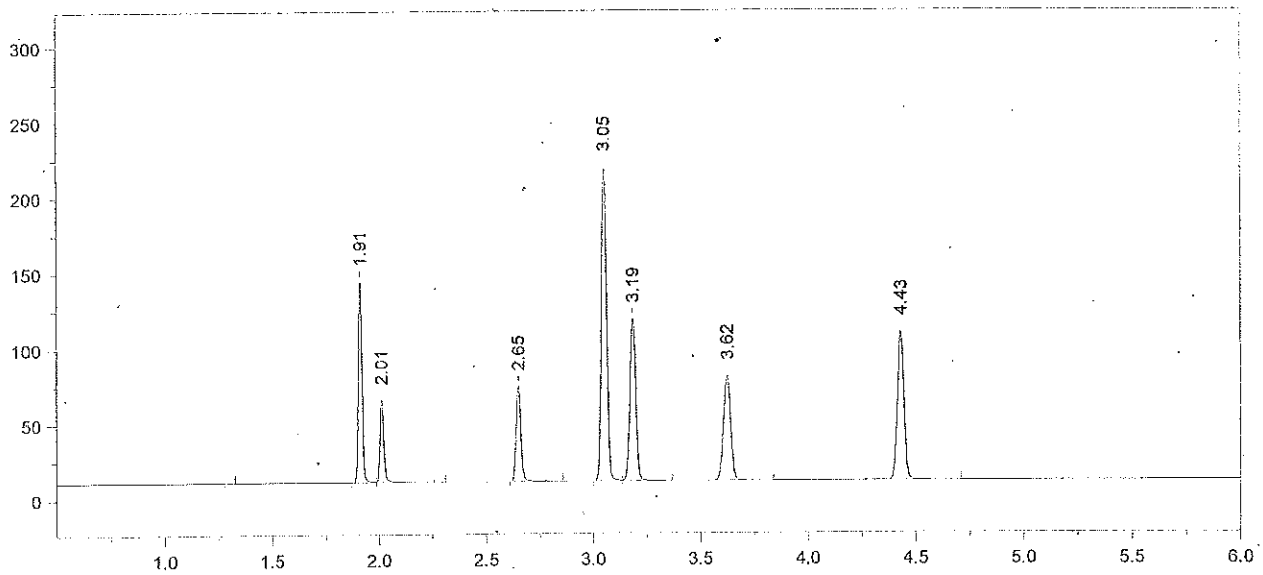


Format File Name = AlcoholVFL.FMT

Today's Date = 1/2/2014
Today's Time = 8:16:07 AM
Bound File Name = SIM12312013.0001.RAW
Sample Name = Blank
Date Taken = 12/31/2013 3:08:52 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.62	t-Butanol	165703	0.9691
4	4.43	n-Propanol	229537	1.0000

13-22-100 4 RLH

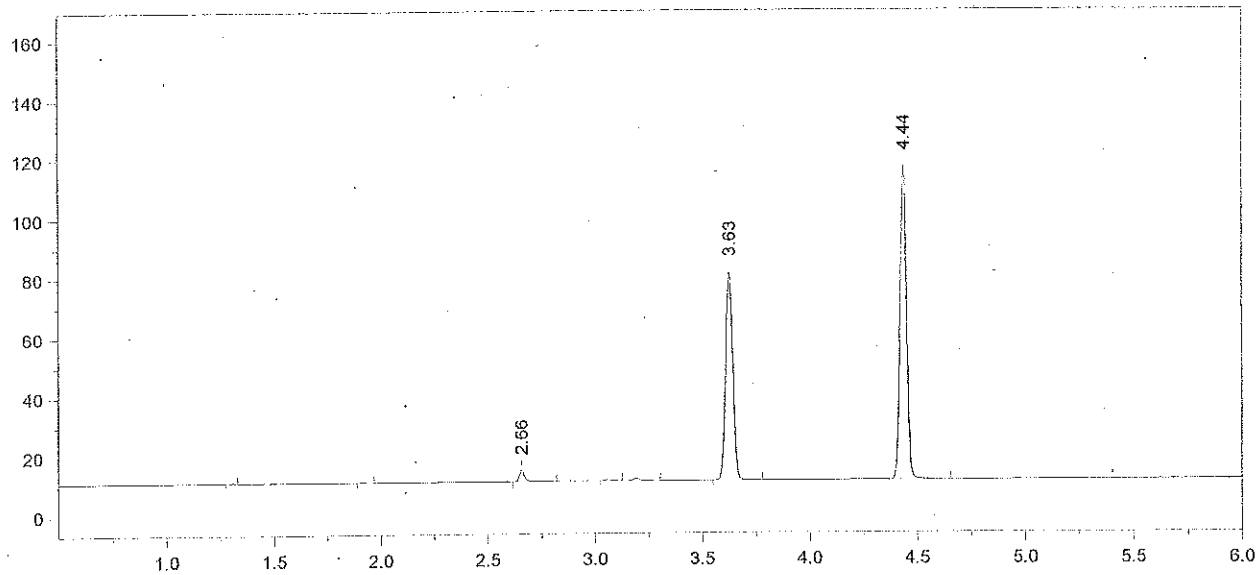


Format File Name = AlcoholVFL.FMT

Today's Date = 1/2/2014
Today's Time = 8:16:13 AM
Bound File Name = SIM12312013.0002.RAW
Sample Name = TMX
Date Taken = 12/31/2013 3:25:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.91	Acetaldehyde	156212	0.0520
3	2.01	Methanol	71226	0.1370
4	2.65	Ethanol	98746	0.0899
5	3.05	Acetone	356821	0.0940
6	3.19	Isopropanol	203273	0.0850
7	3.62	t-Butanol	160630	1.0295
8	4.43	n-Propanol	209464	1.0000

13-22-100 5

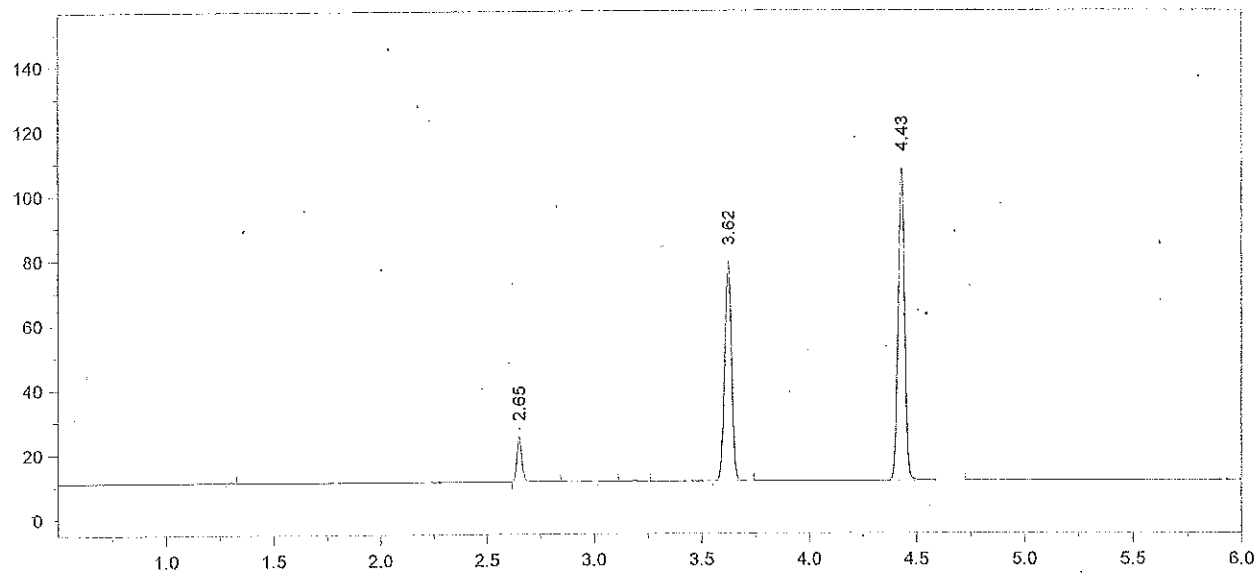


Format File Name = AlcoholVFL.FMT

Today's Date = 1/2/2014
Today's Time = 8:16:19 AM
Bound File Name = SIM12312013.0003.RAW
Sample Name = STD A
Date Taken = 12/31/2013 3:39:31 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	06560	0.0056 *
6	3.63	t-Butanol	162405	0.9721
7	4.44	n-Propanol	224276	1.0000

13-22-100 6

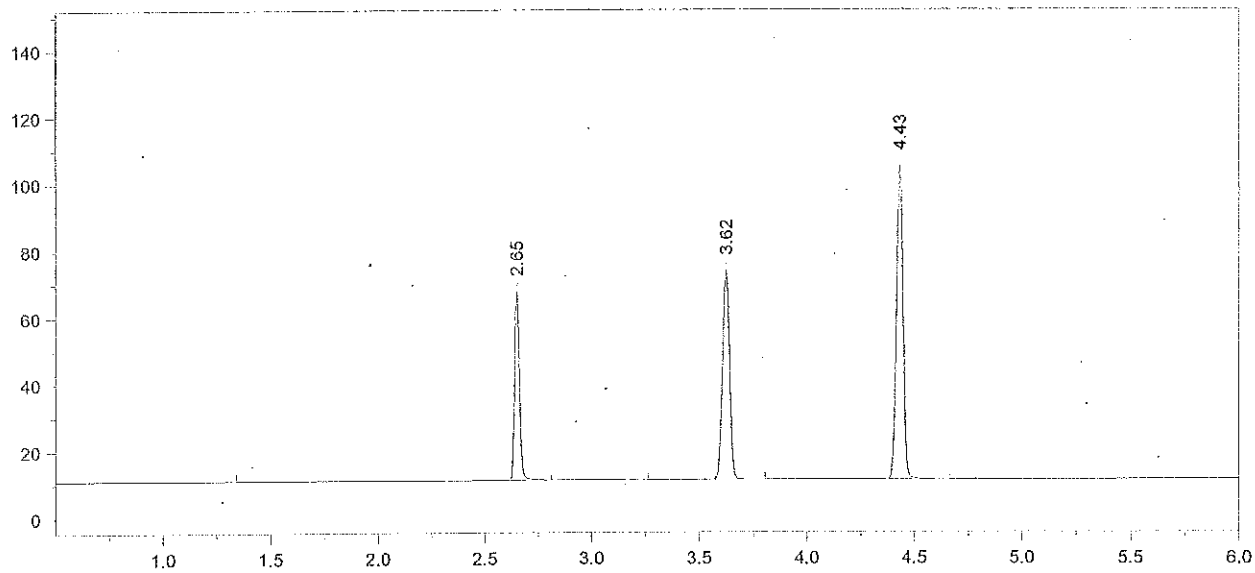


Format File Name = AlcoholVFL.FMT

Today's Date = 1/2/2014
Today's Time = 8:16:25 AM
Bound File Name = SIM12312013.0004.RAW
Sample Name = STD B
Date Taken = 12/31/2013 3:55:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	22329	0.0207
5	3.62	t-Butanol	157327	1.0278
6	4.43	n-Propanol	205498	1.0000

13-22-100 7

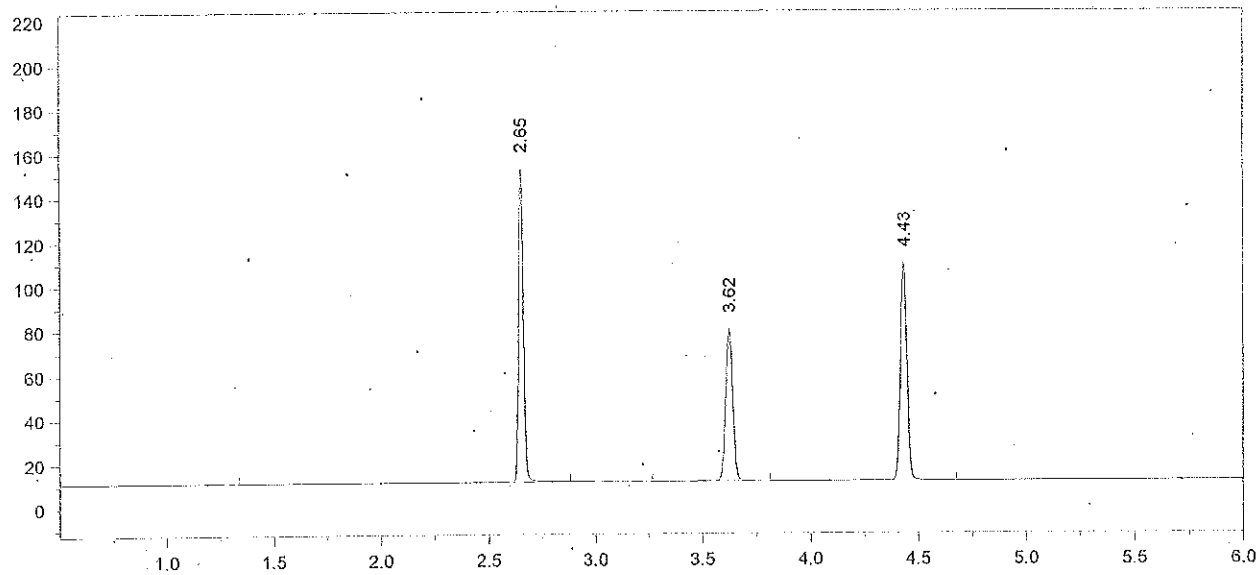


Format File Name = AlcoholVFL.FMT

Today's Date = 1/2/2014
Today's Time = 8:16:31 AM
Bound File Name = SIM12312013.0005.RAW
Sample Name = STD C
Date Taken = 12/31/2013 4:11:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87978	0.0837
4	3.62	t-Butanol	145164	0.9722
5	4.43	n-Propanol	200456	1.0000

13-22-100 8

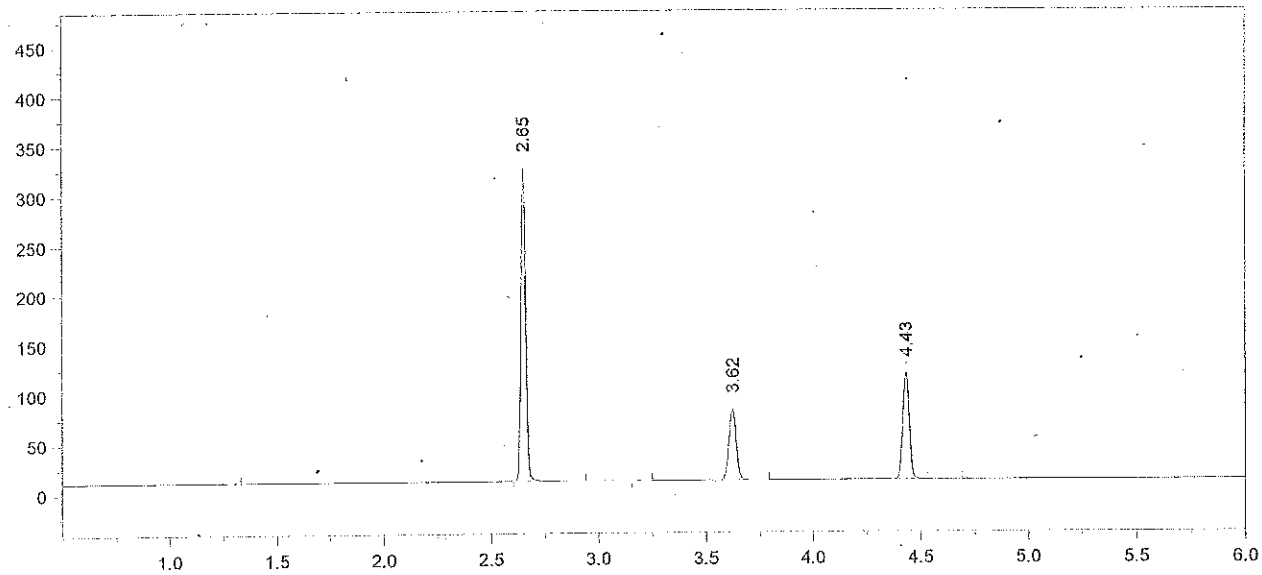


Format File Name = AlcoholVFL.FMT

Today's Date = 1/2/2014
Today's Time = 8:16:37 AM
Bound File Name = SIM12312013.0006.RAW
Sample Name = STD D
Date Taken = 12/31/2013 4:25:22 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	219717	0.2006 *
4	3.62	t-Butanol	159236	1.0238
5	4.43	n-Propanol	208810	1.0000

13-22-100 9

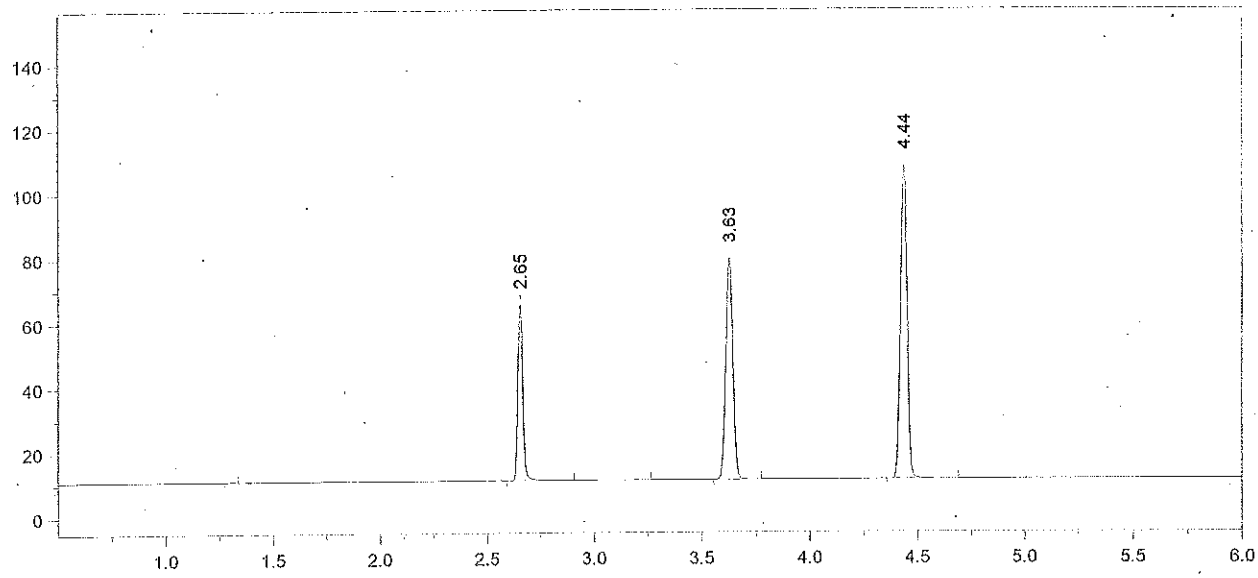


Format File Name = AlcoholVFL.FMT

Today's Date = 1/2/2014
Today's Time = 8:16:42 AM
Bound File Name = SIM12312013.0007.RAW
Sample Name = STD E
Date Taken = 12/31/2013 4:41:38 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	486276	0.4067 *
4	3.62	t-Butanol	165453	0.9746
5	4.43	n-Propanol	227922	1.0000

13-22-100 10 [illegible]

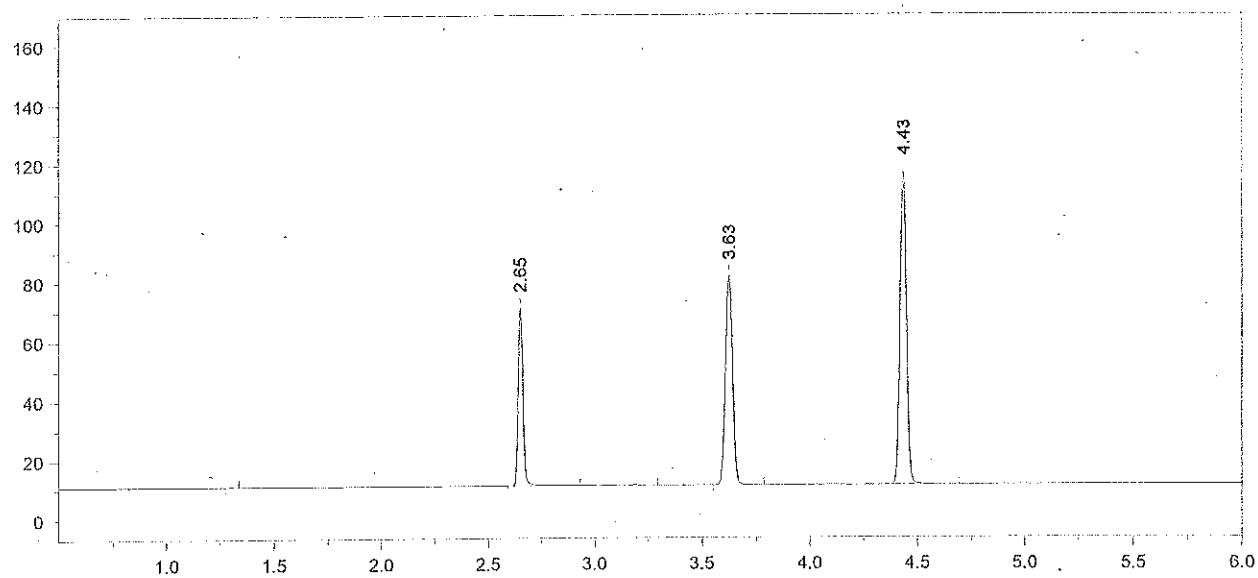


Format File Name = AlcoholVFL.FMT

Today's Date = 12/31/2013
Today's Time = 4:57:32 PM
Bound File Name = SIM12312013.0008.RAW
Sample Name = AQ QC
Date Taken = 12/31/2013 4:57:24 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85403	0.0786 *
4	3.63	t-Butanol	158799	1.0298
5	4.44	n-Propanol	207019	1.0000

13-22-100 11 RZM



Format File Name = AlcoholVFL.FMT

Today's Date = 12/31/2013
Today's Time = 5:12:22 PM
Bound File Name = SIM12312013.0009.RAW
Sample Name = AQ QC
Date Taken = 12/31/2013 5:12:12 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	94042	0.0796 *
4	3.63	t-Butanol	163586	0.9750
5	4.43	n-Propanol	225256	1.0000

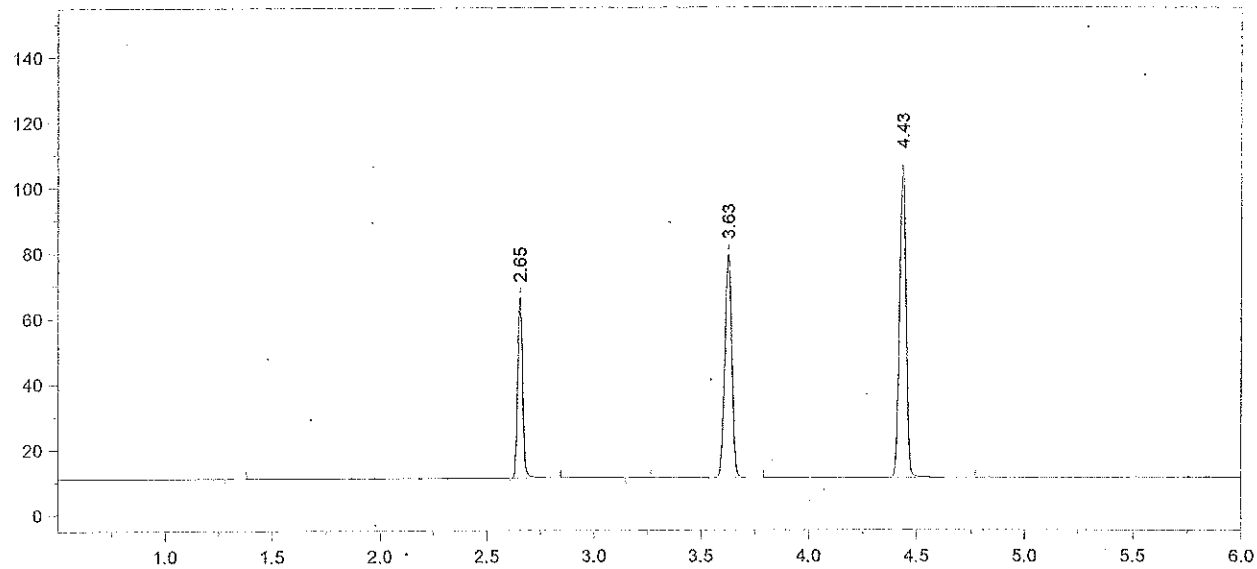
Avg #8 + #9 = 0.079

Target value = 0.080

% recovery = 99 %

RZM 1/2/14

13-22-100 12 RZM

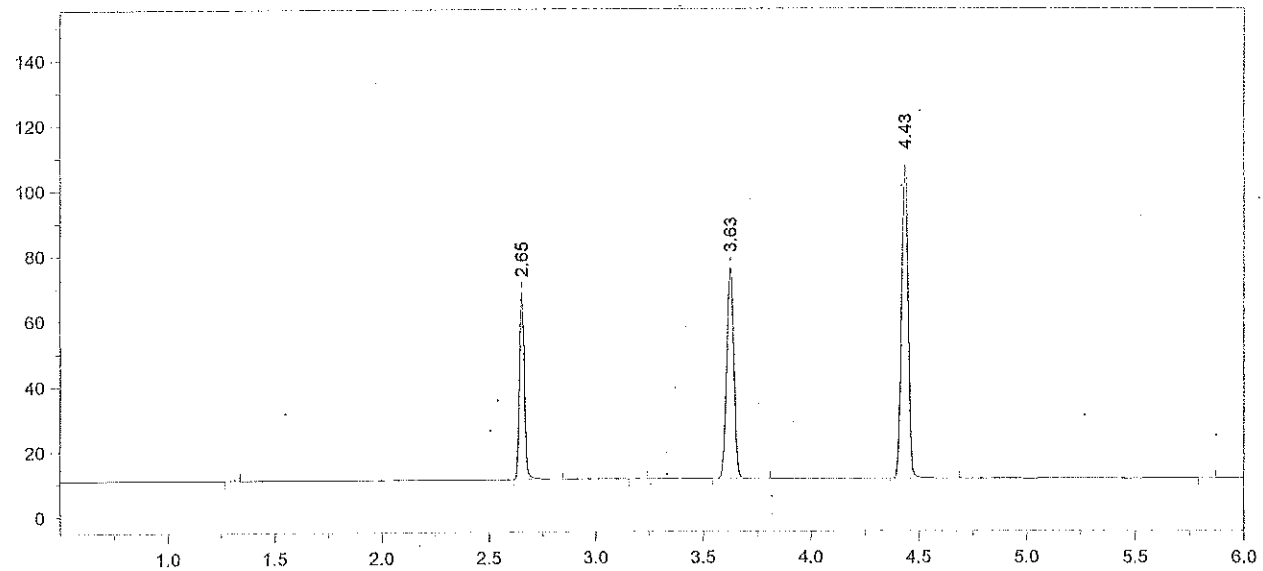


Format File Name = AlcoholVFL.FMT

Today's Date = 1/2/2014
Today's Time = 11:51:23 AM
Bound File Name = SIM12312013.0010.RAW
Sample Name = CCS
Date Taken = 12/31/2013 5:28:46 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85622	0.0803
4	3.63	t-Butanol	157528	1.0409
5	4.43	n-Propanol	203169	1.0000

13-22-100 13



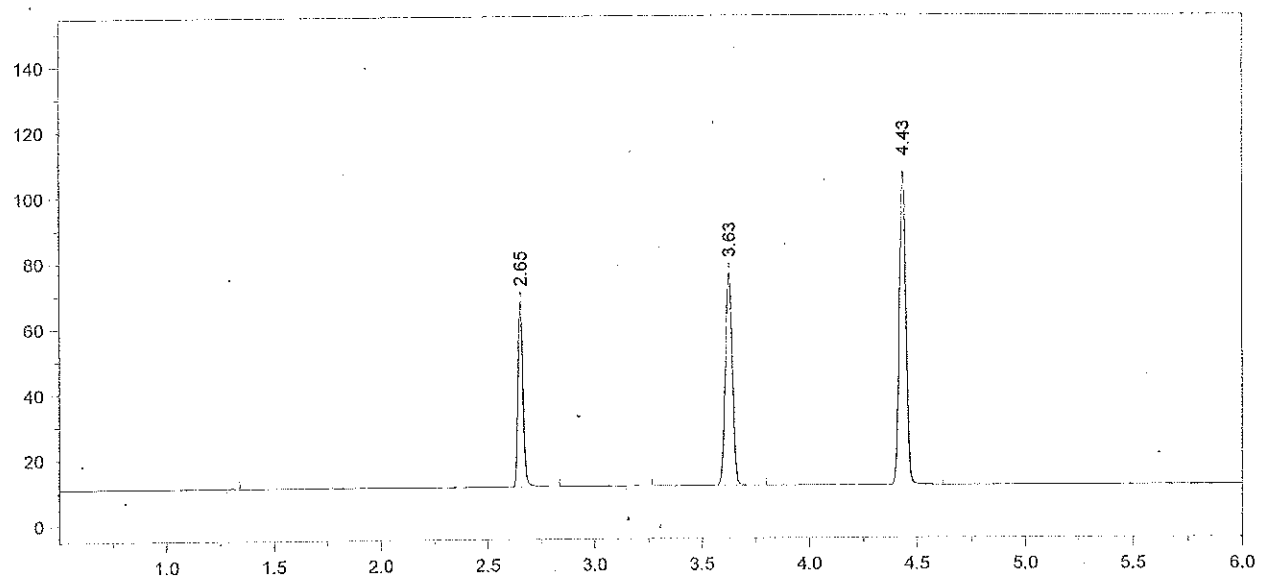
Format File Name = AlcoholVFL.FMT

Today's Date = 1/2/2014
Today's Time = 11:51:29 AM
Bound File Name = SIM12312013.0011.RAW
Sample Name = CCS
Date Taken = 12/31/2013 5:42:31 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	89342	0.0829 *
4	3.63	t-Butanol	149645	0.9780
5	4.43	n-Propanol	205415	1.0000

Avg #10 + #11 = 0.081
RRR 1/2/14

13-22-100 14 RRR

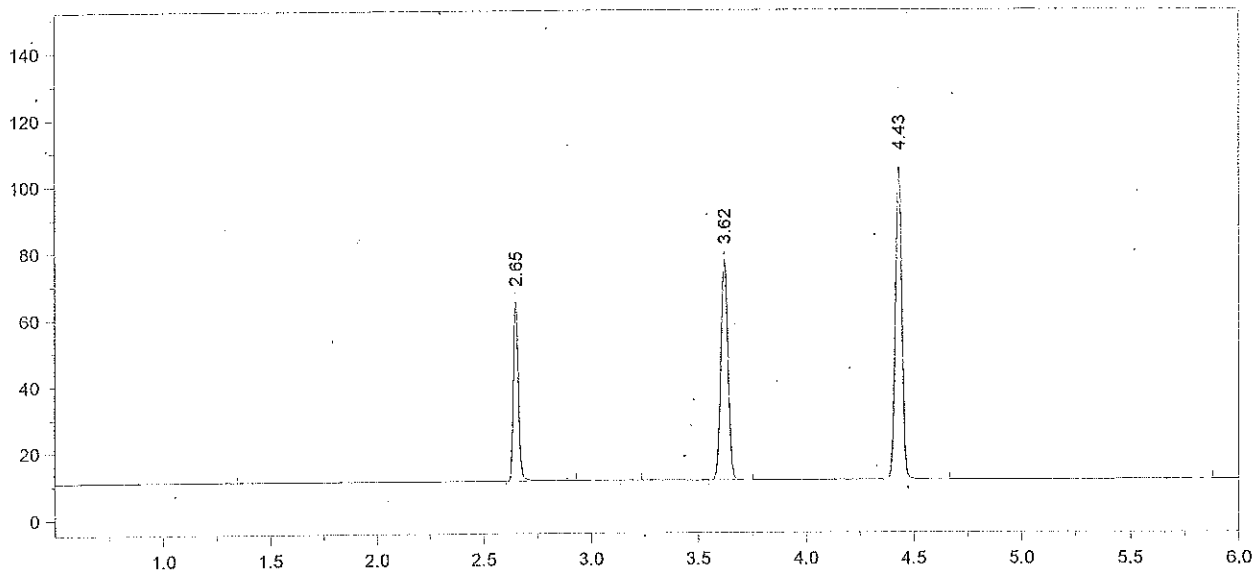


Format File Name = AlcoholVFL.FMT

Today's Date = 1/2/2014
Today's Time = 8:18:24 AM
Bound File Name = SIM12312013.0019.RAW
Sample Name = CCS
Date Taken = 12/31/2013 7:47:16 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	88090	0.0826*
4	3.63	t-Butanol	150157	0.9910
5	4.43	n-Propanol	203410	1.0000

13-22-100 15



Format File Name = AlcoholVFL.FMT

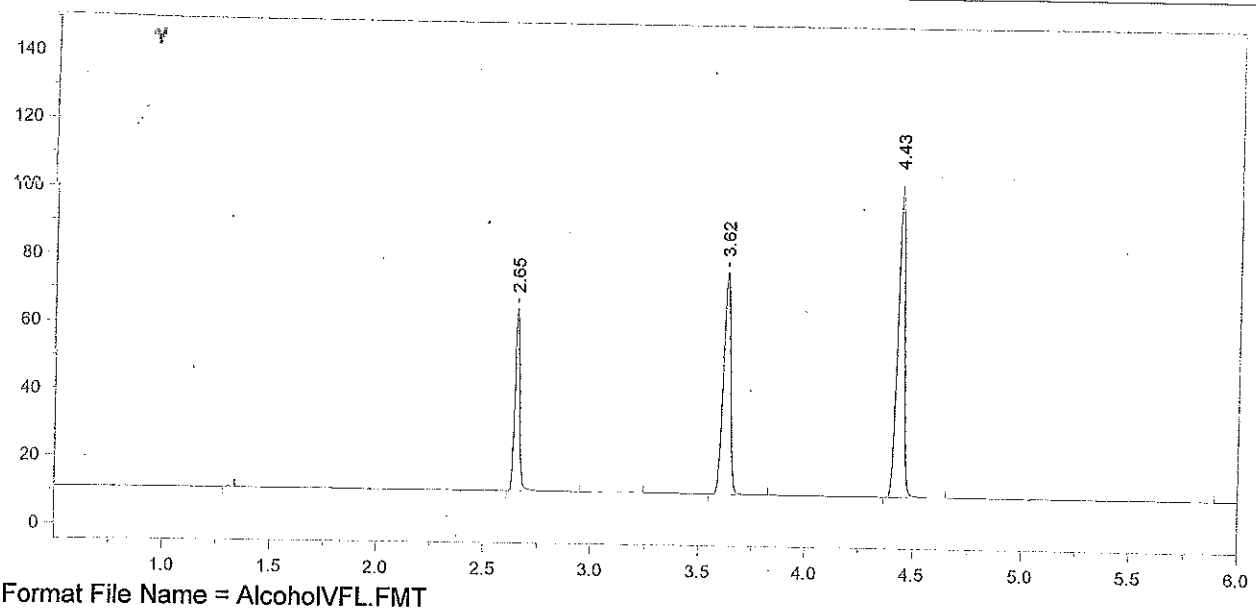
Today's Date = 1/2/2014
Today's Time = 8:18:30 AM
Bound File Name = SIM12312013.0020.RAW
Sample Name = CCS
Date Taken = 12/31/2013 8:04:22 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85205	0.0812*
4	3.62	t-Butanol	154012	1.0337
5	4.43	n-Propanol	200019	1.0000

Avg #19 + #20 = 0.082
RZM 1/2/14

13-22-100 16 RZM

Chrom Perfect Chromatogram Report

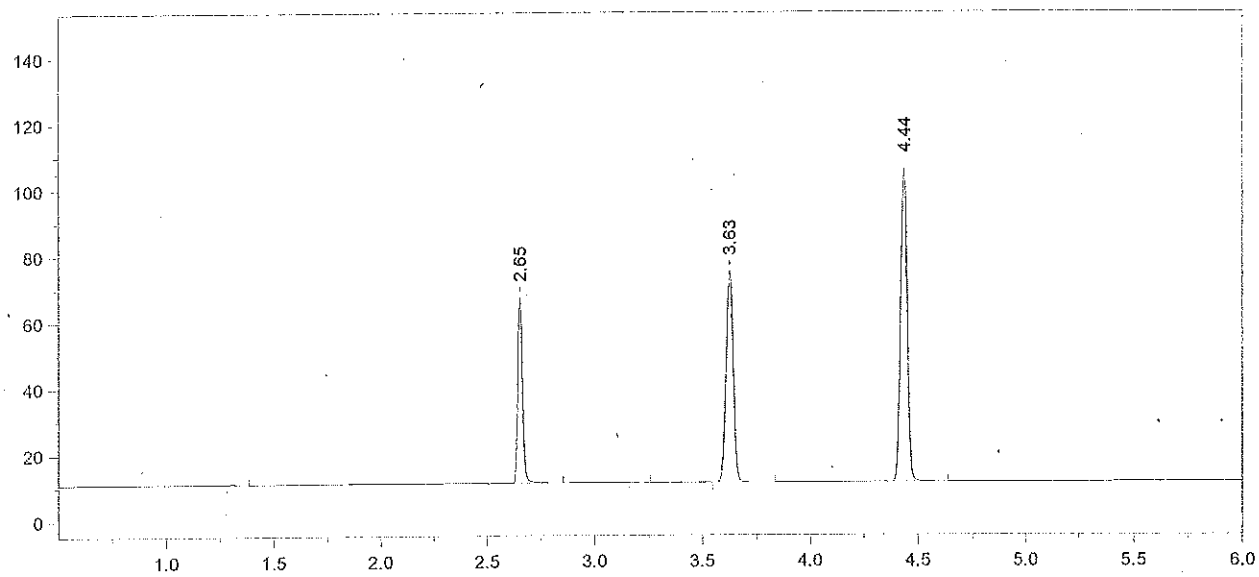


Format File Name = AlcoholVFL.FMT

Today's Date = 12/31/2013
Today's Time = 10:08:34 PM
Bound File Name = SIM12312013.0028.RAW
Sample Name = CCS
Date Taken = 12/31/2013 10:08:27 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84623	0.0814
4	3.62	t-Butanol	152837	1.0357
5	4.43	n-Propanol	198106	1.0000

13-22-100 M7



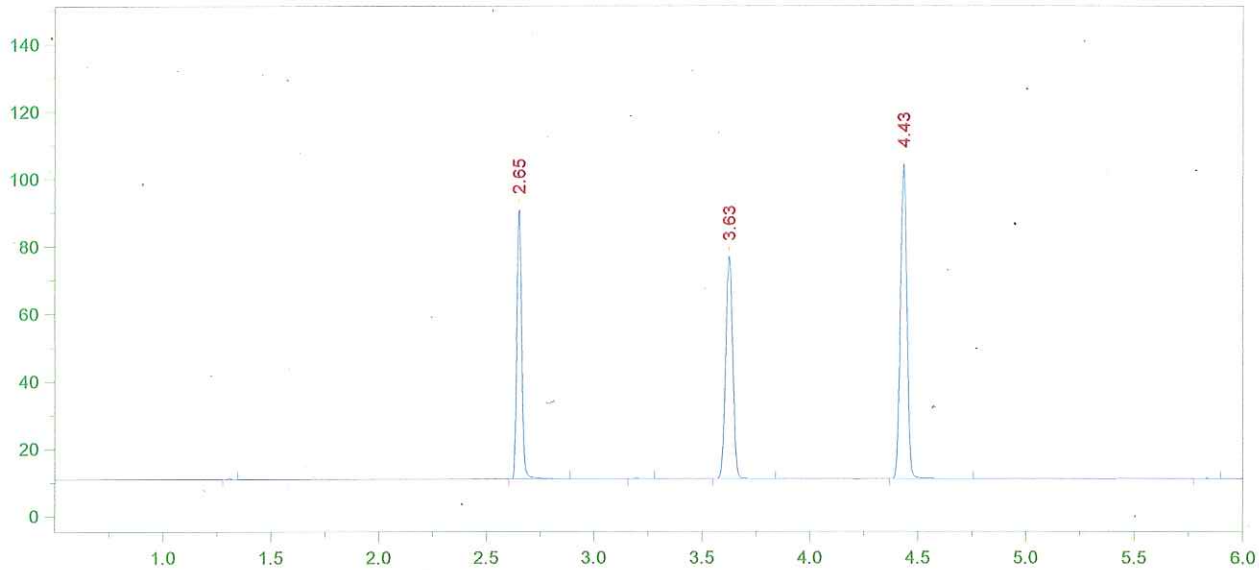
Format File Name = AlcoholVFL.FMT

Today's Date = 12/31/2013
Today's Time = 10:21:49 PM
Bound File Name = SIM12312013.0029.RAW
Sample Name = CCS
Date Taken = 12/31/2013 10:21:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87519	0.0825 *
4	3.63	t-Butanol	147879	0.9814
5	4.44	n-Propanol	202293	1.0000

Avg #28 + #29 = 0.082
RZM 1/2/14

13-22-100 18 RZM

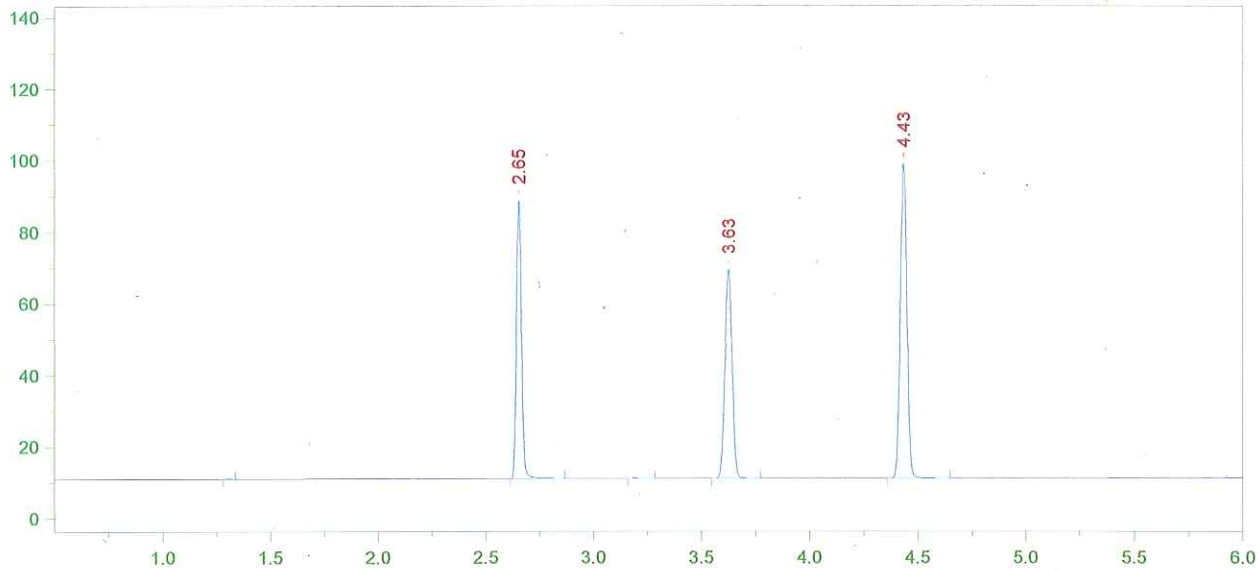


Format File Name = simsolnVFL.met.FMT

Today's Date = 12/31/2013
Today's Time = 10:39:55 PM
Bound File Name = SIM12312013.0030.RAW
Sample Name = 13-22-100 RLM
Date Taken = 12/31/2013 10:39:51 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125001	0.1201	0.0981
4	3.63	t-Butanol	153278	1.0376	0.8469
5	4.43	n-Propanol	198327	1.0000	0.8162

13-22-100 19 RLM

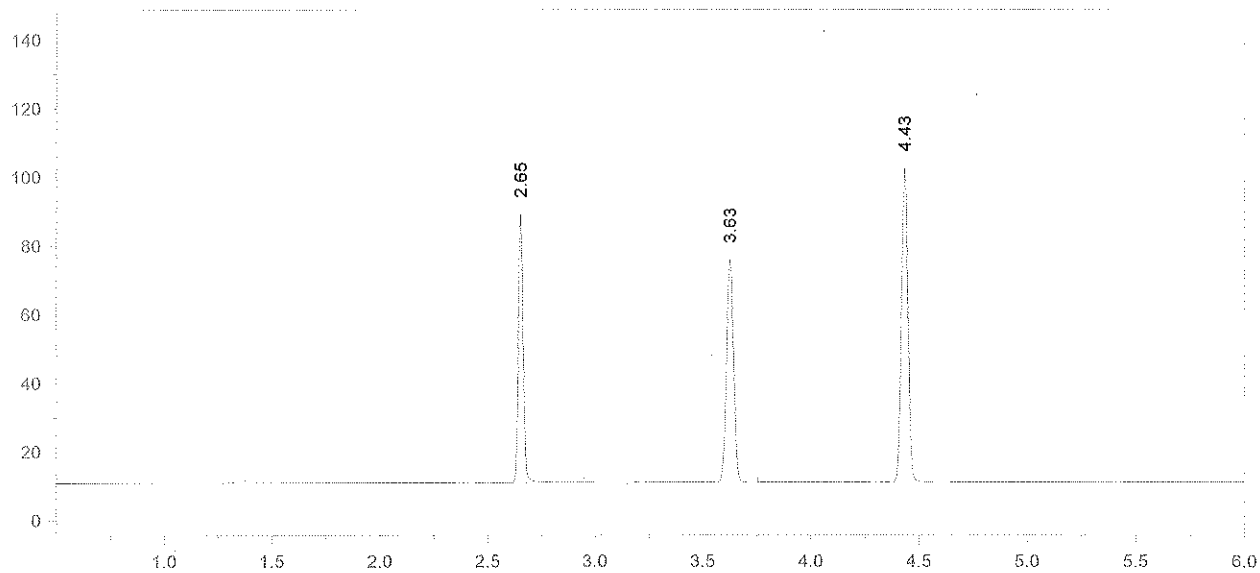


Format File Name = simsolnVFL.met.FMT

Today's Date = 12/31/2013
Today's Time = 10:53:59 PM
Bound File Name = SIM12312013.0031.RAW
Sample Name = 13-22-100 RLM
Date Taken = 12/31/2013 10:53:51 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	120806	0.1234	0.1007
4	3.63	t-Butanol	135506	0.9746	0.7954
5	4.43	n-Propanol	186668	1.0000	0.8162

13-22-100 20 RLM

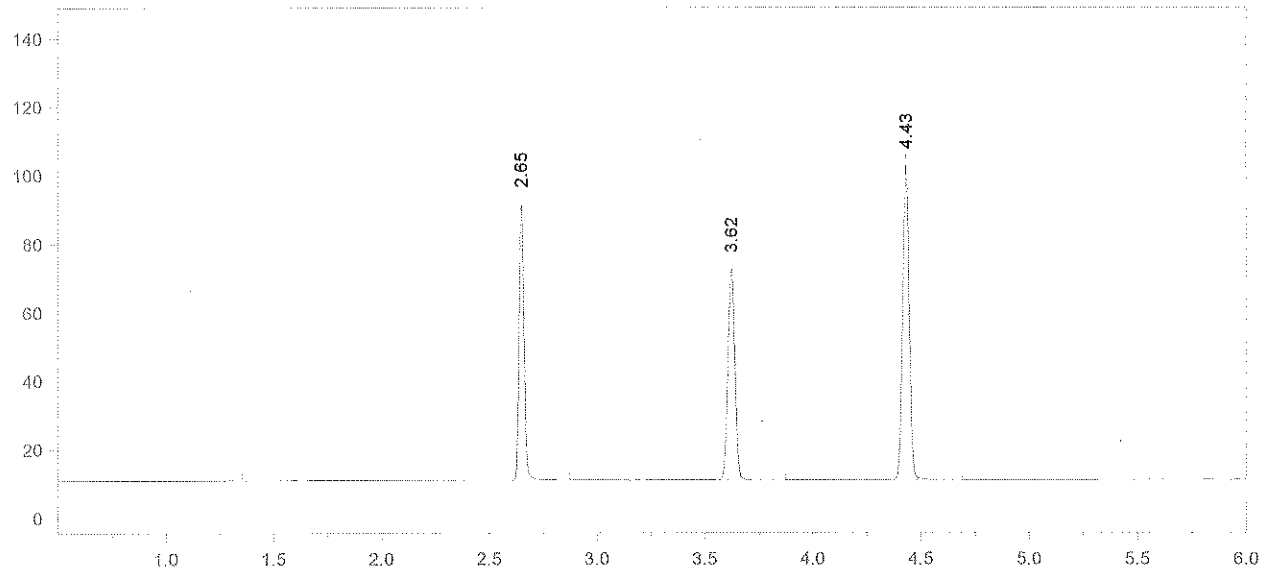


Format File Name = simsolnVFL.met.FMT

Today's Date = 12/31/2013
Today's Time = 11:11:22 PM
Bound File Name = SIM12312013.0032.RAW
Sample Name = 13-22-100 RLM
Date Taken = 12/31/2013 11:11:18 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122089	0.1198	0.0978
4	3.63	t-Butanol	150673	1.0411	0.8498
5	4.43	n-Propanol	194288	1.0000	0.8162

13-22-100 21

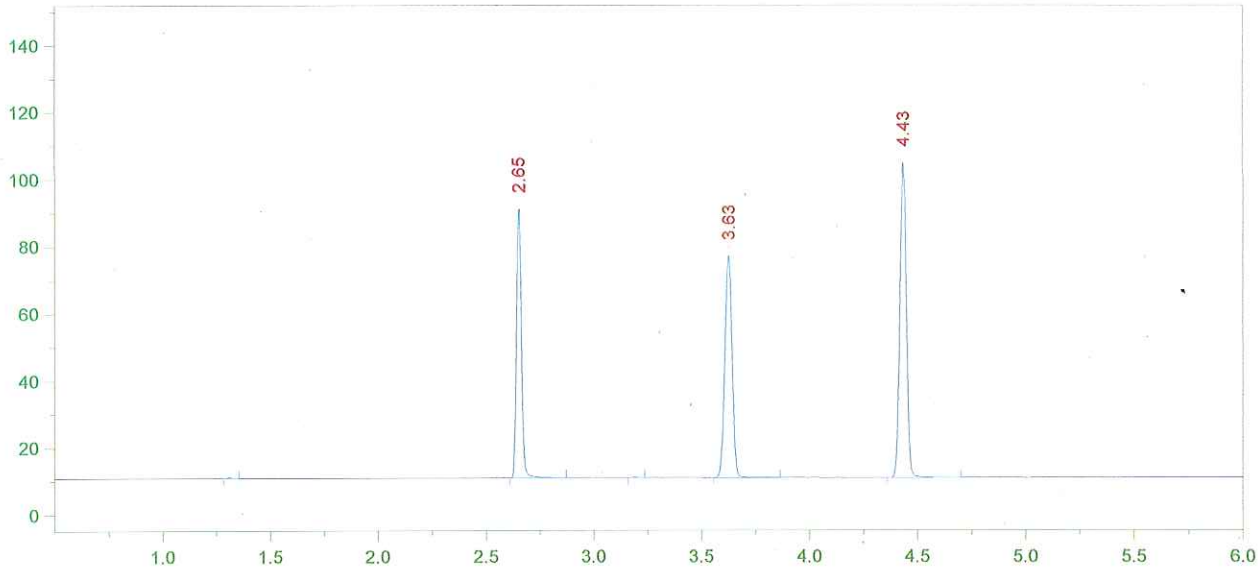


Format File Name = simsolnVFL.met.FMT

Today's Date = 12/31/2013
Today's Time = 11:24:38 PM
Bound File Name = SIM12312013.0033.RAW
Sample Name = 13-22-100 RLM
Date Taken = 12/31/2013 11:24:33 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125520	0.1222	0.0997
4	3.62	t-Butanol	143019	0.9806	0.8004
5	4.43	n-Propanol	195802	1.0000	0.8162

13-22-100 22 22-7

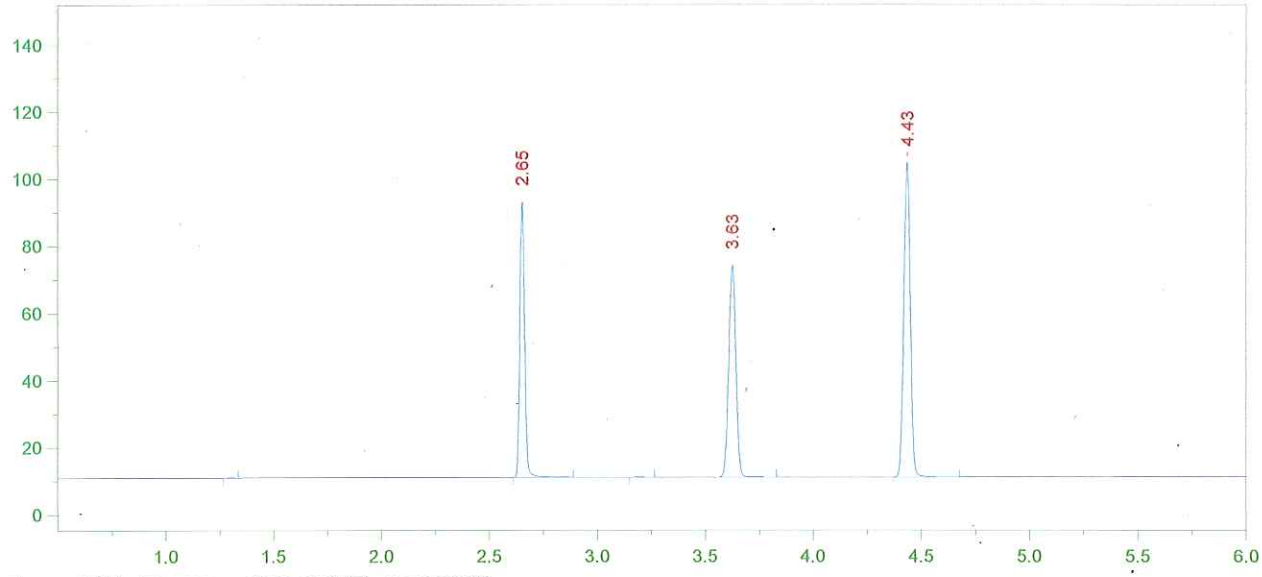


Format File Name = simsolnVFL.met.FMT

Today's Date = 12/31/2013
Today's Time = 11:42:53 PM
Bound File Name = SIM12312013.0034.RAW
Sample Name = 13-22-100 RLM
Date Taken = 12/31/2013 11:42:45 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125391	0.1196	0.0976
4	3.63	t-Butanol	154381	1.0371	0.8465
5	4.43	n-Propanol	199838	1.0000	0.8162

13-22-100 23

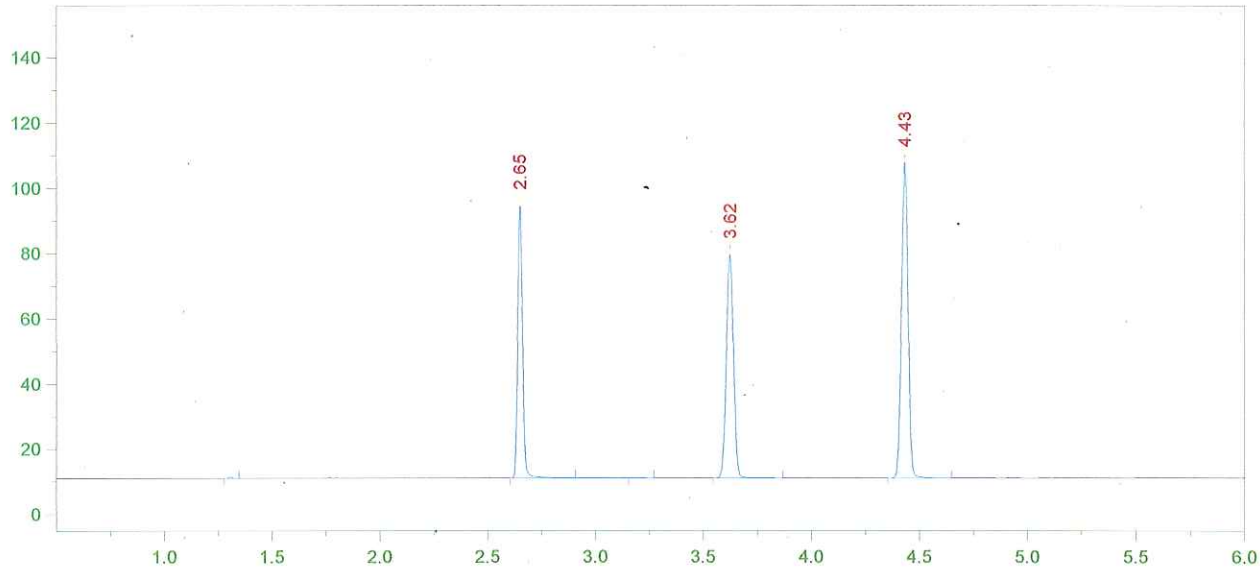


Format File Name = simsolnVFL.met.FMT

Today's Date = 12/31/2013
Today's Time = 11:56:38 PM
Bound File Name = SIM12312013.0035.RAW
Sample Name = 13-22-100 RLM
Date Taken = 12/31/2013 11:56:28 PM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127880	0.1225	0.1000
4	3.63	t-Butanol	146277	0.9872	0.8058
5	4.43	n-Propanol	198923	1.0000	0.8162

13-22-100 24

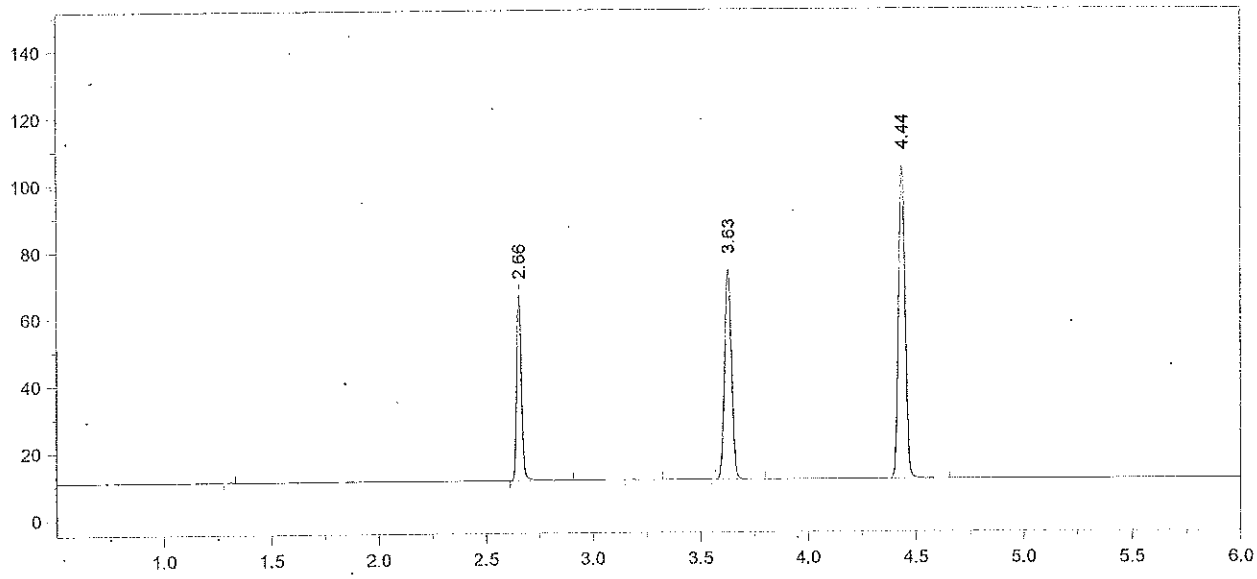


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/1/2014
Today's Time = 12:14:16 AM
Bound File Name = SIM12312013.0036.RAW
Sample Name = 13-22-100 RLM
Date Taken = 1/1/2014 12:14:09 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129581	0.1200	0.0979
4	3.62	t-Butanol	158434	1.0333	0.8434
5	4.43	n-Propanol	205843	1.0000	0.8162

13-22-100 25 RLM

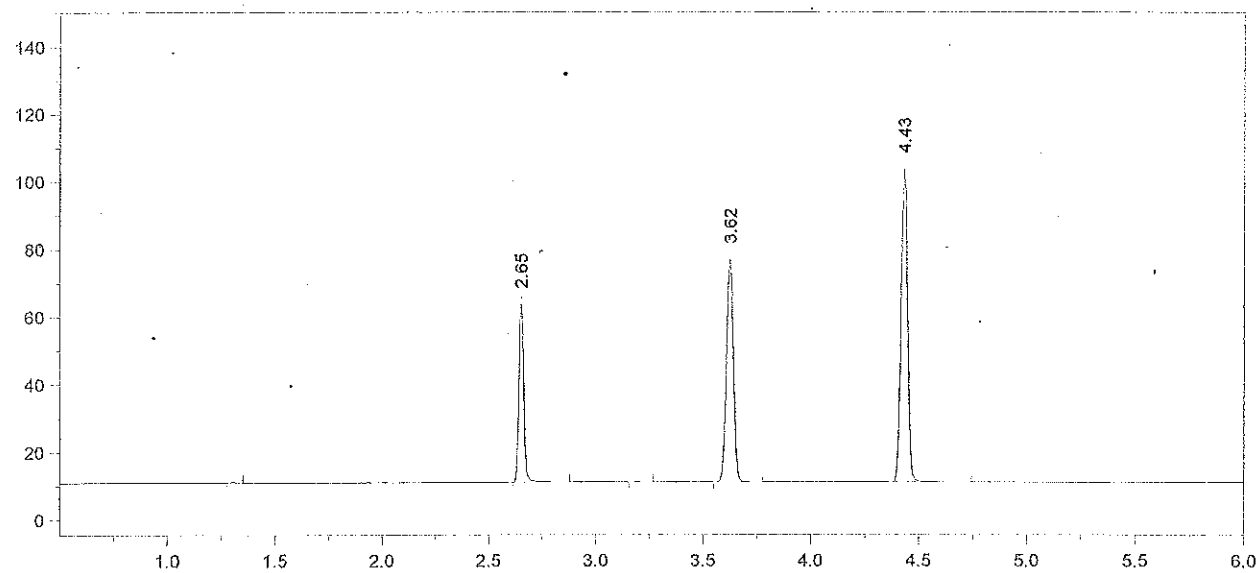


Format File Name = AlcoholVFL.FMT

Today's Date = 1/1/2014
Today's Time = 12:27:33 AM
Bound File Name = SIM12312013.0037.RAW
Sample Name = CCS
Date Taken = 1/1/2014 12:27:27 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	87346	0.0838
4	3.63	t-Butanol	145093	0.9801
5	4.44	n-Propanol	198739	1.0000

13-22-100 26



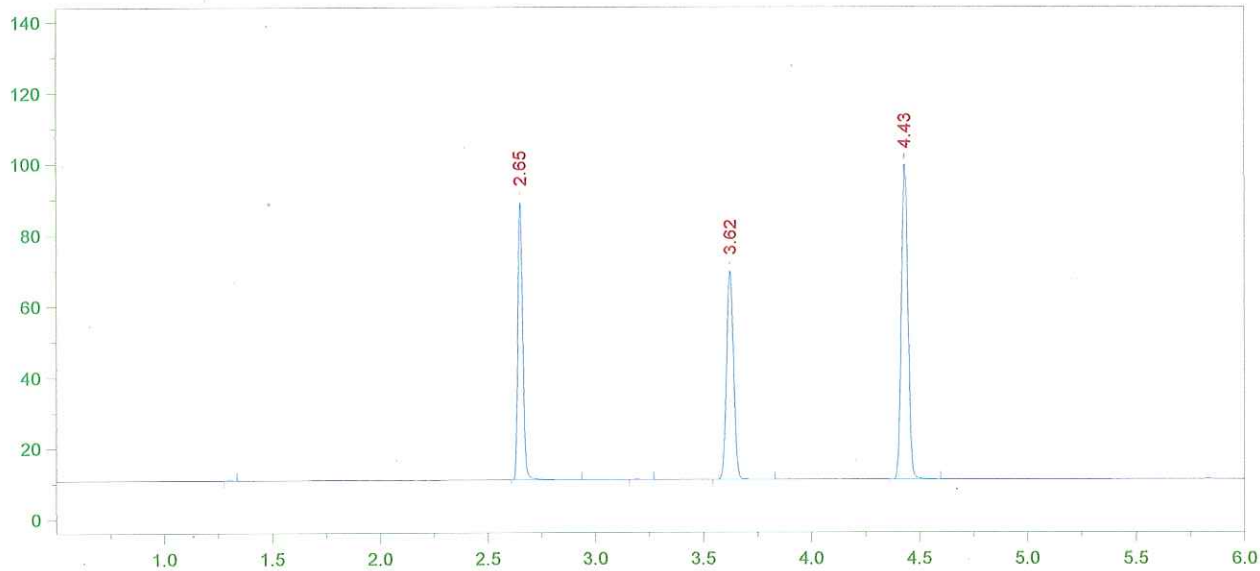
Format File Name = AlcoholVFL.FMT

Today's Date = 1/1/2014
Today's Time = 12:45:46 AM
Bound File Name = SIM12312013.0038.RAW
Sample Name = CCS
Date Taken = 1/1/2014 12:45:36 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83223	0.0801 *
4	3.62	t-Butanol	152808	1.0352
5	4.43	n-Propanol	198173	1.0000

Avg #37 + #38 = 0.082
KM 1/2/14

13-22-100 27 KM

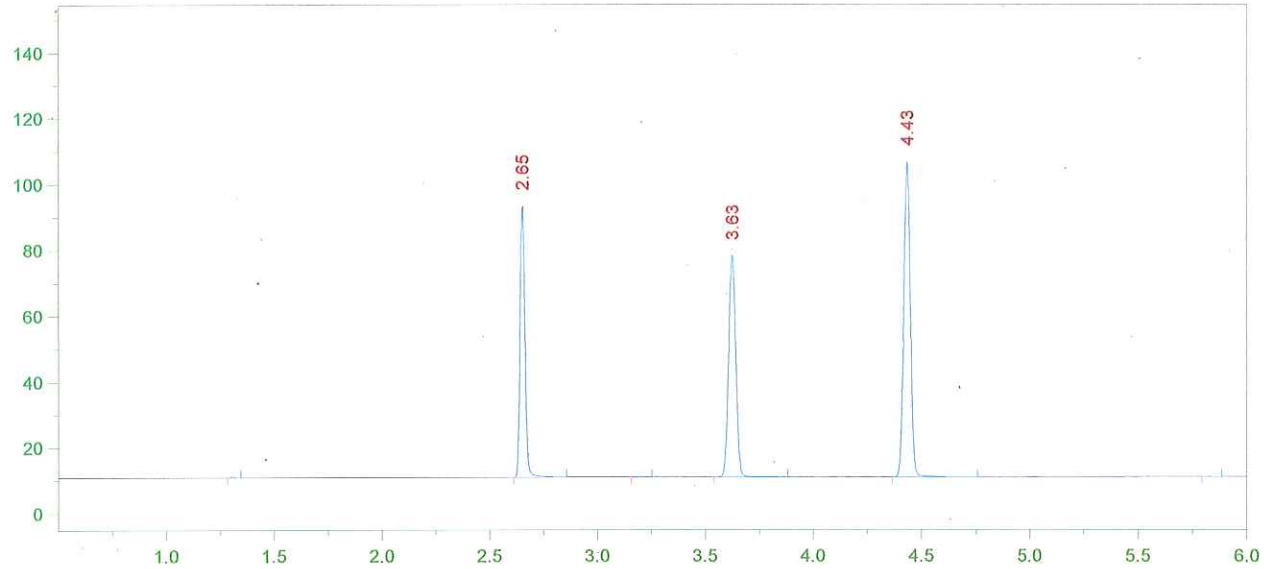


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/1/2014
Today's Time = 12:59:36 AM
Bound File Name = SIM12312013.0039.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/1/2014 12:59:29 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122170	0.1235	0.1008
4	3.62	t-Butanol	136424	0.9712	0.7927
5	4.43	n-Propanol	188587	1.0000	0.8162

13-22-100 28 RZM

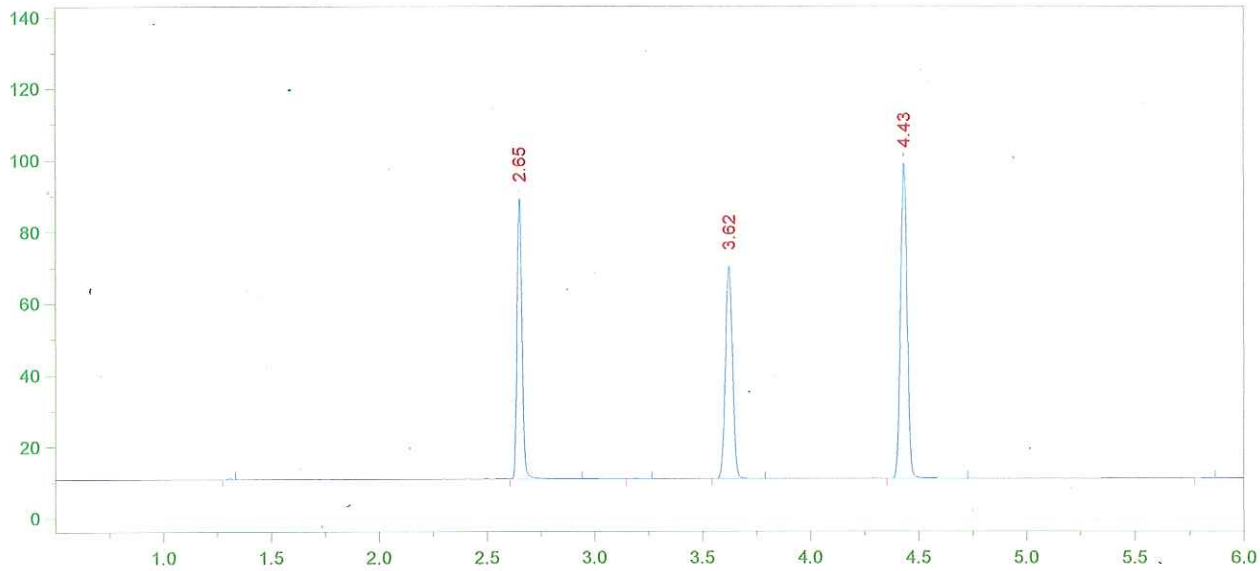


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/1/2014
Today's Time = 1:15:29 AM
Bound File Name = SIM12312013.0040.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/1/2014 1:15:25 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128712	0.1207	0.0985
4	3.63	t-Butanol	156713	1.0349	0.8447
5	4.43	n-Propanol	203287	1.0000	0.8162

13-22-100 29

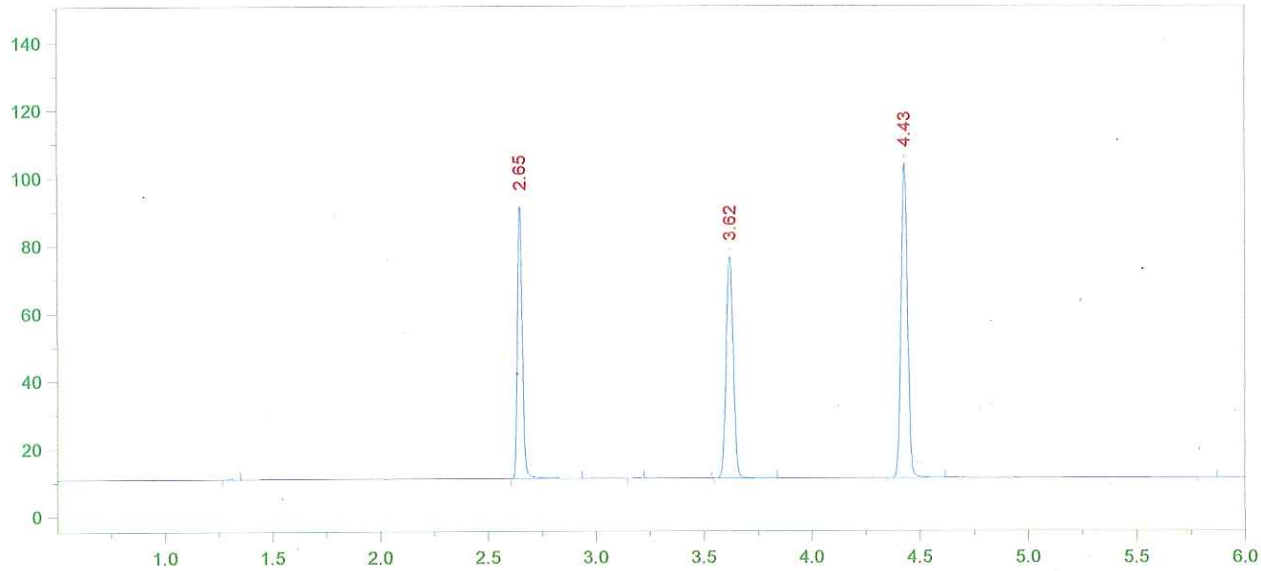


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/1/2014
Today's Time = 1:31:05 AM
Bound File Name = SIM12312013.0041.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/1/2014 1:31:01 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122264	0.1242	0.1014
4	3.62	t-Butanol	137557	0.9843	0.8034
5	4.43	n-Propanol	187608	1.0000	0.8162

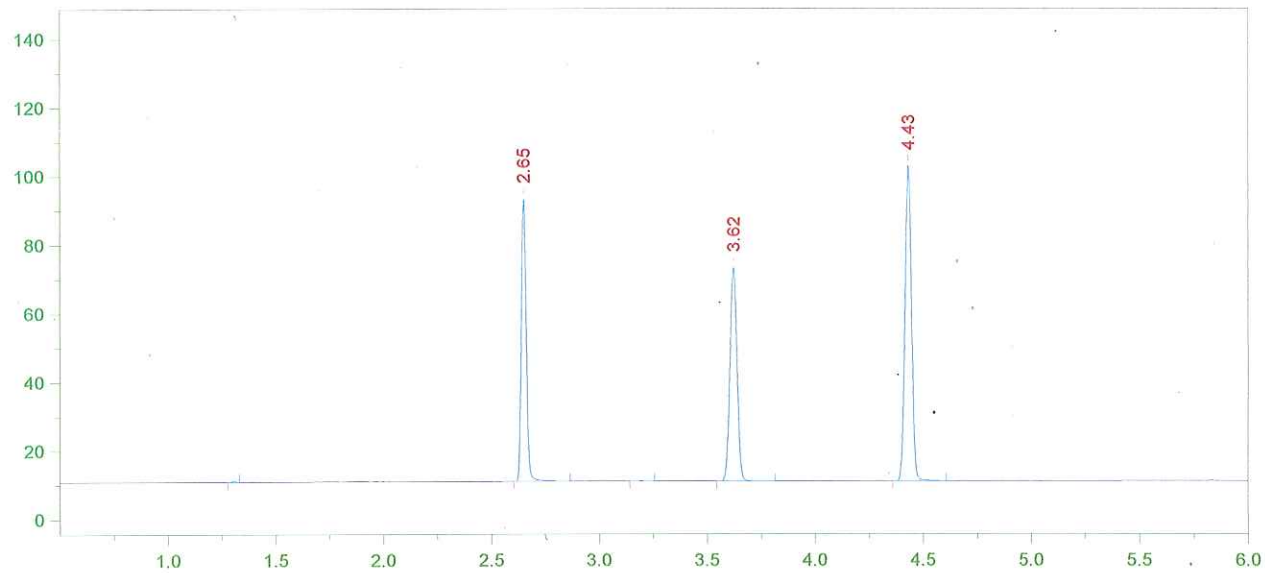
13-22-100 30 RLn



Format File Name = simsolnVFL.met.FMT

Today's Date = 1/1/2014
Today's Time = 1:47:04 AM
Bound File Name = SIM12312013.0042.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/1/2014 1:46:55 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125668	0.1216	0.0992
4	3.62	t-Butanol	152284	1.0376	0.8469
5	4.43	n-Propanol	197040	1.0000	0.8162

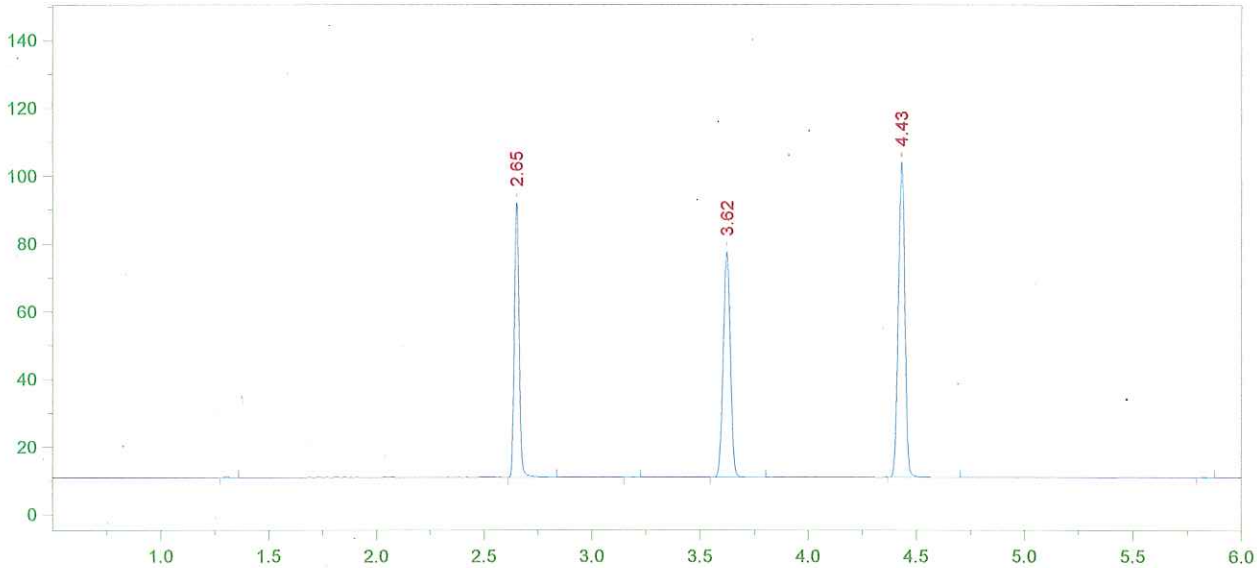


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/1/2014
Today's Time = 2:01:26 AM
Bound File Name = SIM12312013.0043.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/1/2014 2:01:18 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127168	0.1241	0.1013
4	3.62	t-Butanol	143941	0.9889	0.8072
5	4.43	n-Propanol	195404	1.0000	0.8162

13-22-100 32 [illegible]

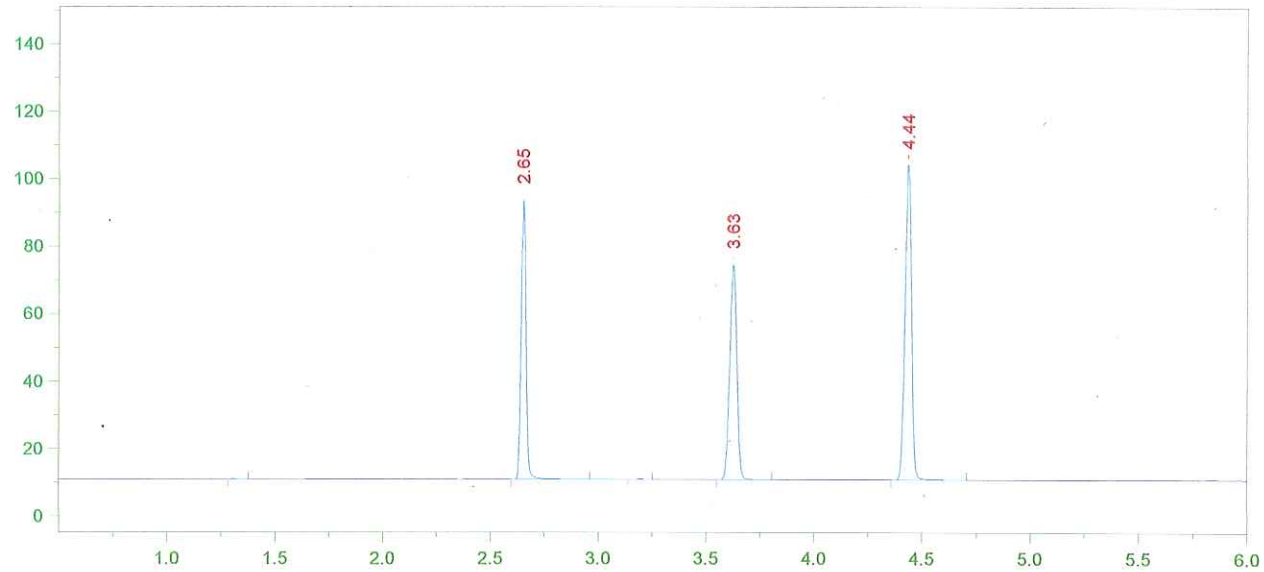


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/2/2014
Today's Time = 11:51:34 AM
Bound File Name = SIM12312013.0044.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/1/2014 2:18:21 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125836	0.1204	0.0983
4	3.62	t-Butanol	154136	1.0386	0.8477
5	4.43	n-Propanol	199229	1.0000	0.8162

13-22-100 33 RLM

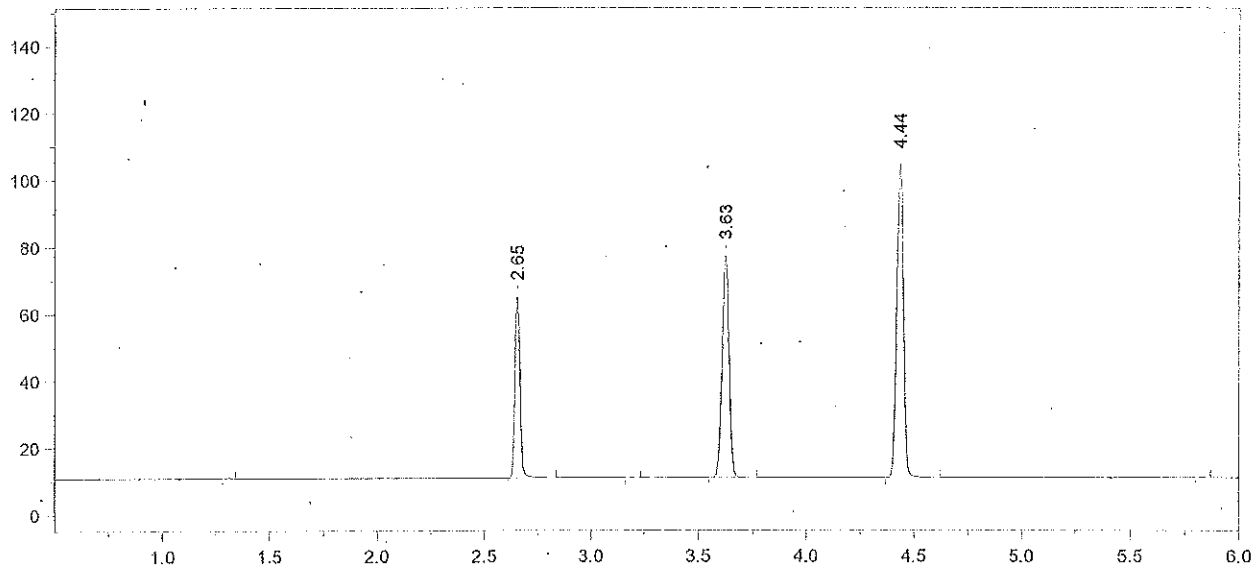


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/1/2014
Today's Time = 2:32:10 AM
Bound File Name = SIM12312013.0045.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/1/2014 2:32:01 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129082	0.1233	0.1007
4	3.63	t-Butanol	147483	0.9925	0.8101
5	4.44	n-Propanol	199485	1.0000	0.8162

13-22-100 34 [illegible]

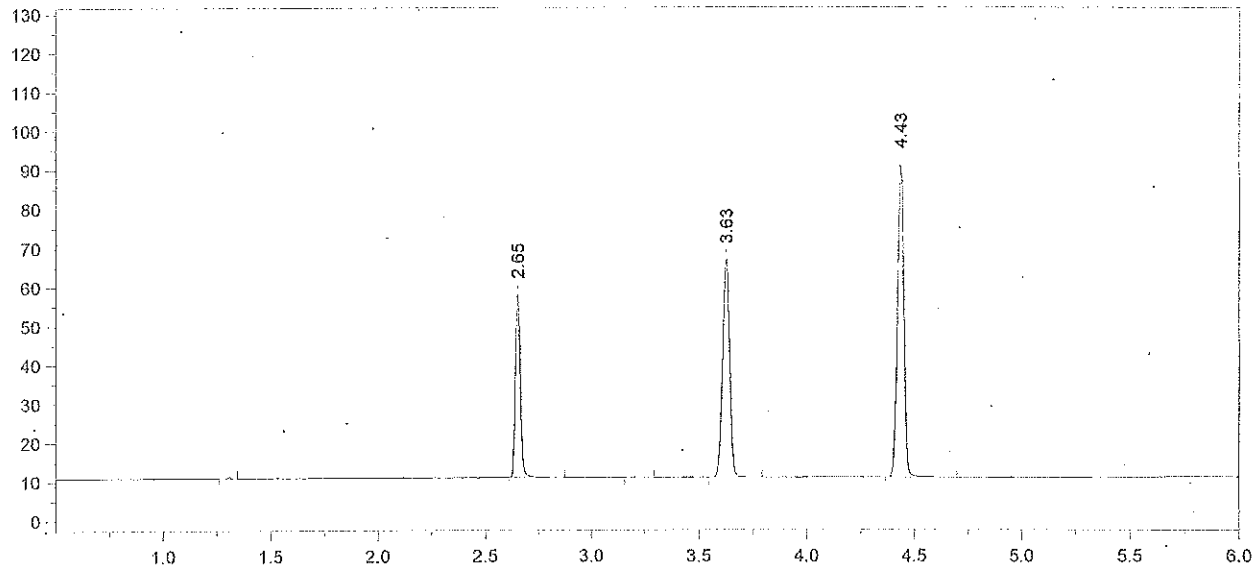


Format File Name = AlcoholVFL.FMT

Today's Date = 1/1/2014
Today's Time = 2:49:56 AM
Bound File Name = SIM12312013.0046.RAW
Sample Name = CCS
Date Taken = 1/1/2014 2:49:48 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	84902	0.0813 *
4	3.63	t-Butanol	154052	1.0385
5	4.44	n-Propanol	199140	1.0000

13-22-100 35 RZM



Format File Name = AlcoholVFL.FMT

Today's Date = 1/1/2014
Today's Time = 3:03:50 AM
Bound File Name = SIM12312013.0047.RAW
Sample Name = CCS
Date Taken = 1/1/2014 3:03:41 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = SIM12312013.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	73757	0.0824
4	3.63	t-Butanol	129381	1.0179
5	4.43	n-Propanol	170643	1.0000

Avg #46 + #47 = 0.082
RZM 1/2/14

13-22-100 36 RZM

File Name: C:\Methods\VFL01022014.CAL
Version: 7

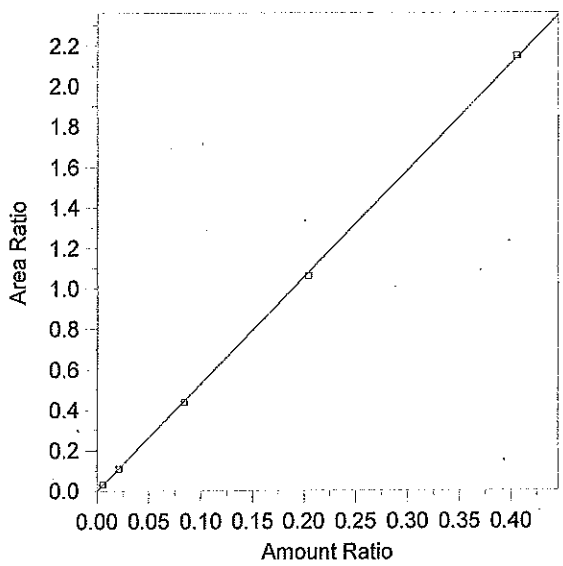
Creator:
Description:
Reason for change:

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:	2.654 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 = 5.280231 X + 0

Linear fit with equal weighting, forced to origin

Coefficient of determination:	0.9998484
Average error:	2.422%
Average CF:	5.299329
RSD:	3.556%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.091)	(85146)	--	--	0.091	85146	Manual	8/12/2013 4:03:34 PM
2	0.0053	5761.847	1087141	6.477	0.0053	2.979793E-02	C:\Alcohol Data\VFL01022014\VFL01022014.0003.BND	1/2/2014 4:40:56 PM
3	0.0211	22882.33	1084471	-2.272	0.0211	0.1088821	C:\Alcohol Data\VFL01022014\VFL01022014.0004.BND	1/2/2014 4:56:55 PM
4	0.0841	88991.11	1058158	-1.216	0.0841	0.4386664	C:\Alcohol Data\VFL01022014\VFL01022014.0005.BND	1/2/2014 5:11:49 PM
5	0.2043	202540.4	991387.2	-1.662	0.2043	1.060818	C:\Alcohol Data\VFL01022014\VFL01022014.0006.BND	1/2/2014 5:28:24 PM
6	0.4047	419392.3	1036304	0.481	0.4047	2.147193	C:\Alcohol Data\VFL01022014\VFL01022014.0007.BND	1/2/2014 5:42:24 PM

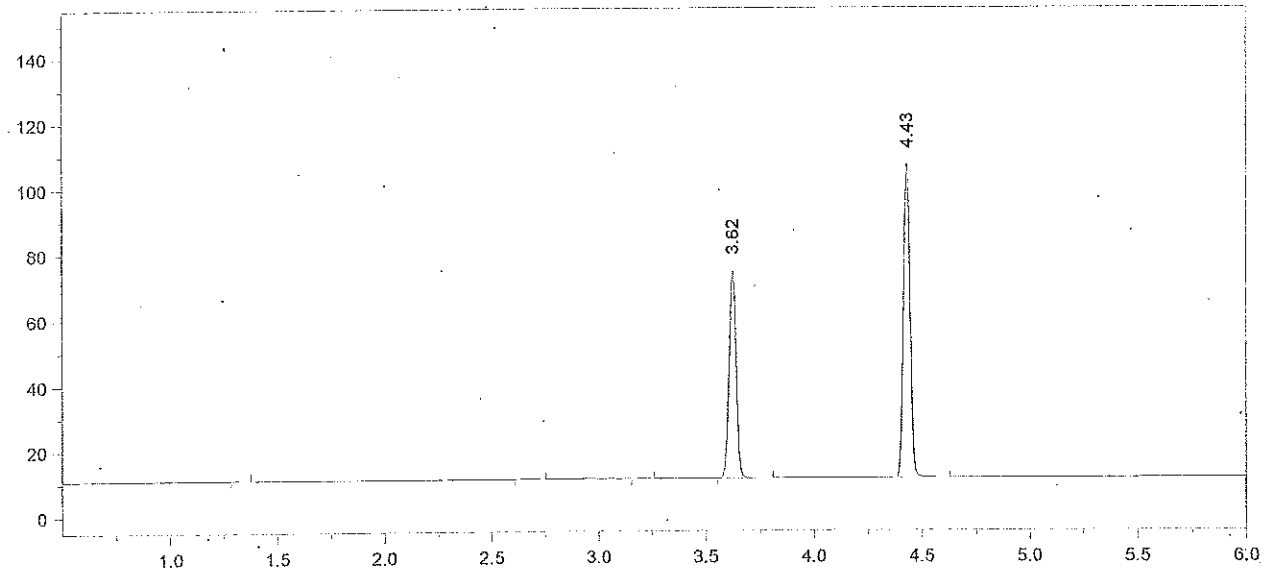
ES: ES-12202013
IS: IS-10312013
TMX: TMX-08122013
AQ QC: FN021111-03 (Cenilliant)
WB: Clinica 1212090
RZM 1/3/14

13-22-100 37 RZM

File Name = C:\Alcohol Data\VFL01022014\VFL01022014.SEQ
Version = 1
File Date = 1/2/2014 3:33:13 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL01022014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL01022014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL01022014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL01022014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL01022014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL01022014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL01022014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL01022014.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL01022014.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL01022014.0010.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
11	VFL01022014.0011.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
12	VFL01022014.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL01022014.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL01022014.0014.raw	Blood Alc temp VFL.MET	V13-2710 A1-2 casework	1.00	1.00
15	VFL01022014.0015.raw	Blood Alc temp VFL.MET	V13-2710 A1-2 not	1.00	1.00
16	VFL01022014.0016.raw	Blood Alc temp VFL.MET	V14-2 A1-1 included	1.00	1.00
17	VFL01022014.0017.raw	Blood Alc temp VFL.MET	V14-2 A1-1	1.00	1.00
18	VFL01022014.0018.raw	Blood Alc temp VFL.MET	V14-5 A1-1	1.00	1.00
19	VFL01022014.0019.raw	Blood Alc temp VFL.MET	V14-5 A1-1 [illegible] 1/3/14	1.00	1.00
20	VFL01022014.0020.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
21	VFL01022014.0021.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
22	VFL01022014.0022.raw	simsoln.met	13-21-100 RLM	1.00	1.00
23	VFL01022014.0023.raw	simsoln.met	13-21-100 RLM 13-21-100	1.00	1.00
24	VFL01022014.0024.raw	simsoln.met	13-21-100 RLM not	1.00	1.00
25	VFL01022014.0025.raw	simsoln.met	13-21-100 RLM included	1.00	1.00
26	VFL01022014.0026.raw	simsoln.met	13-21-100 RLM	1.00	1.00
27	VFL01022014.0027.raw	simsoln.met	13-21-100 RLM [illegible] 1/3/14	1.00	1.00
28	VFL01022014.0028.raw	simsoln.met	13-21-100 RLM	1.00	1.00
29	VFL01022014.0029.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
30	VFL01022014.0030.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
31	VFL01022014.0031.raw	simsoln.met	13-21-100 ALB 13-21-100	1.00	1.00
32	VFL01022014.0032.raw	simsoln.met	13-21-100 ALB	1.00	1.00
33	VFL01022014.0033.raw	simsoln.met	13-21-100 ALB not	1.00	1.00
34	VFL01022014.0034.raw	simsoln.met	13-21-100 ALB included	1.00	1.00
35	VFL01022014.0035.raw	simsoln.met	13-21-100 ALB	1.00	1.00
36	VFL01022014.0036.raw	simsoln.met	13-21-100 ALB [illegible] 1/3/14	1.00	1.00
37	VFL01022014.0037.raw	simsoln.met	13-21-100 ALB	1.00	1.00
38	VFL01022014.0038.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
39	VFL01022014.0039.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
40	VFL01022014.0040.raw	simsoln.met	13-22-100 RLM	1.00	1.00
41	VFL01022014.0041.raw	simsoln.met	13-22-100 RLM	1.00	1.00
42	VFL01022014.0042.raw	simsoln.met	13-22-100 RLM	1.00	1.00
43	VFL01022014.0043.raw	simsoln.met	13-22-100 RLM	1.00	1.00
44	VFL01022014.0044.raw	simsoln.met	13-22-100 RLM	1.00	1.00
45	VFL01022014.0045.raw	simsoln.met	13-22-100 RLM	1.00	1.00
46	VFL01022014.0046.raw	simsoln.met	13-22-100 RLM	1.00	1.00
47	VFL01022014.0047.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
48	VFL01022014.0048.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
49	VFL01022014.0049.raw	simsoln.met	13-22-100 ALB	1.00	1.00
50	VFL01022014.0050.raw	simsoln.met	13-22-100 ALB	1.00	1.00
51	VFL01022014.0051.raw	simsoln.met	13-22-100 ALB	1.00	1.00
52	VFL01022014.0052.raw	simsoln.met	13-22-100 ALB	1.00	1.00
53	VFL01022014.0053.raw	simsoln.met	13-22-100 ALB	1.00	1.00
54	VFL01022014.0054.raw	simsoln.met	13-22-100 ALB	1.00	1.00
55	VFL01022014.0055.raw	simsoln.met	13-22-100 ALB	1.00	1.00
56	VFL01022014.0056.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
57	VFL01022014.0057.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

13-22-100 38 [illegible]

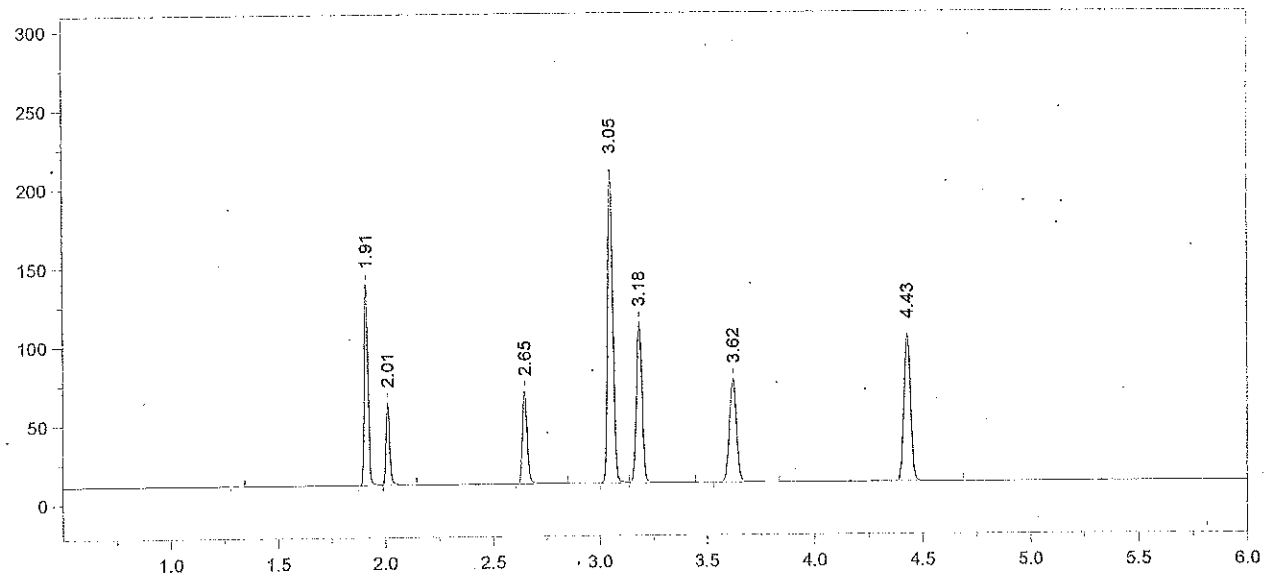


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 8:47:54 AM
Bound File Name = VFL01022014.0001.RAW
Sample Name = Blank
Date Taken = 1/2/2014 4:09:38 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.62	t-Butanol	147274	0.9629
5	4.43	n-Propanol	204603	1.0000

13-22-100 39 RZM

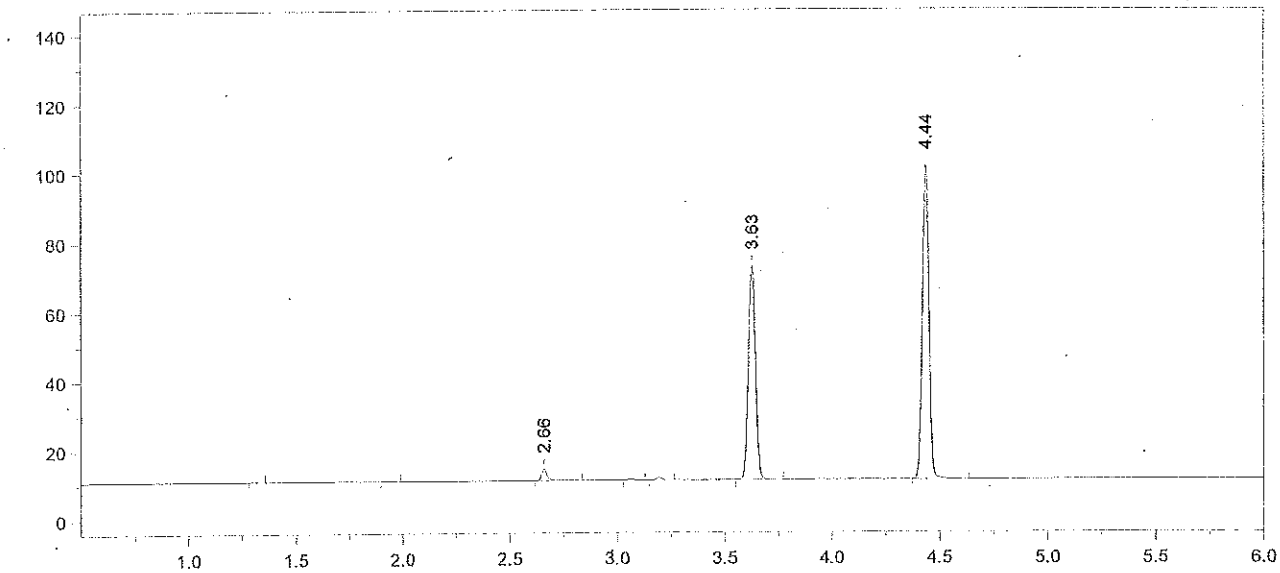


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 8:48:00 AM
Bound File Name = VFL01022014.0002.RAW
Sample Name = TMX
Date Taken = 1/2/2014 4:27:04 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.91	Acetaldehyde	150599	0.0520
3	2.01	Methanol	66115	0.1370
4	2.65	Ethanol	92286	0.0884
5	3.05	Acetone	342620	0.0940
6	3.18	Isopropanol	191095	0.0850
7	3.62	t-Butanol	152543	1.0322
8	4.43	n-Propanol	197695	1.0000

13-22-100 40 RM

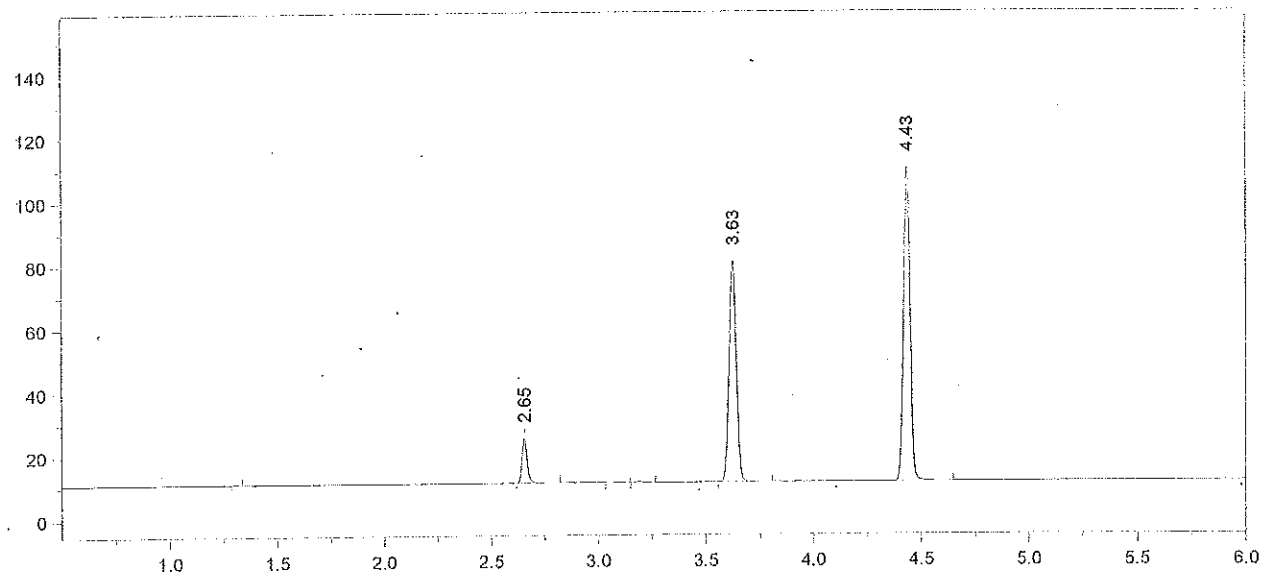


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 8:48:06 AM
Bound File Name = VFL01022014.0003.RAW
Sample Name = STD A
Date Taken = 1/2/2014 4:40:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05762	0.0056
6	3.63	t-Butanol	143217	0.9908
7	4.44	n-Propanol	193364	1.0000

13-22-100 41

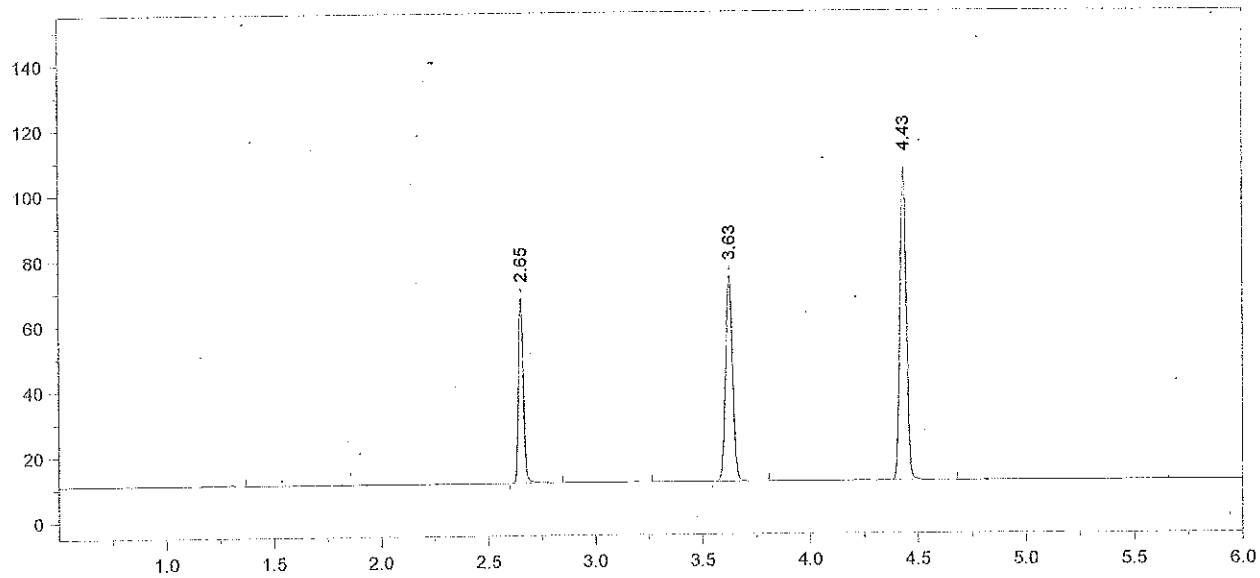


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 8:48:12 AM
Bound File Name = VFL01022014.0004.RAW
Sample Name = STD B
Date Taken = 1/2/2014 4:56:48 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	22882	0.0206 *
5	3.63	t-Butanol	160886	1.0241
6	4.43	n-Propanol	210157	1.0000

13-22-100 42 RZM

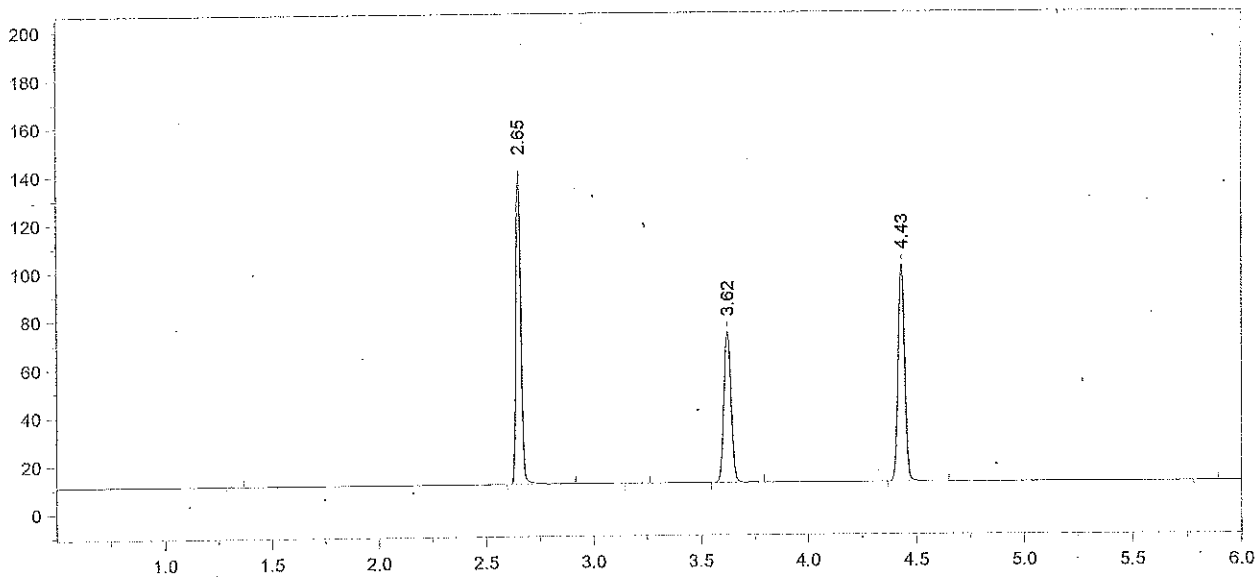


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 8:48:19 AM
Bound File Name = VFL01022014.0005.RAW
Sample Name = STD C
Date Taken = 1/2/2014 5:11:44 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	88991	0.0831
4	3.63	t-Butanol	146458	0.9658
5	4.43	n-Propanol	202867	1.0000

13-22-100 43

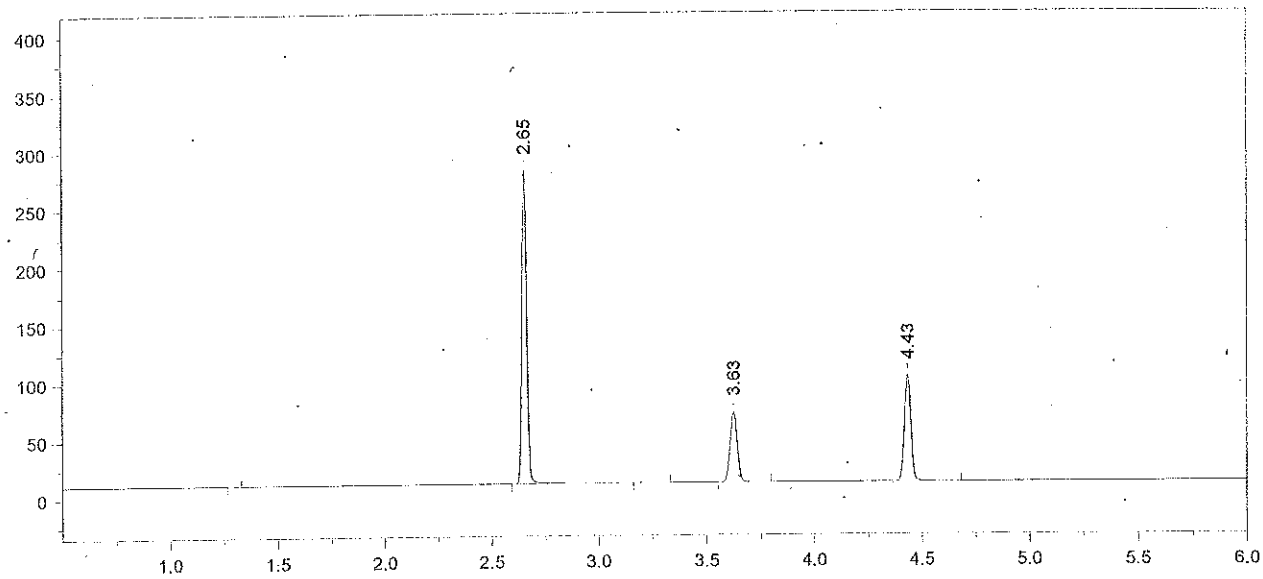


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:47:29 AM
Bound File Name = VFL01022014.0006.RAW
Sample Name = STD D
Date Taken = 1/2/2014 5:28:20 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	202540	0.2009 X
4	3.62	t-Butanol	145080	1.0165
5	4.43	n-Propanol	190929	1.0000

13-22-100 44 RLM

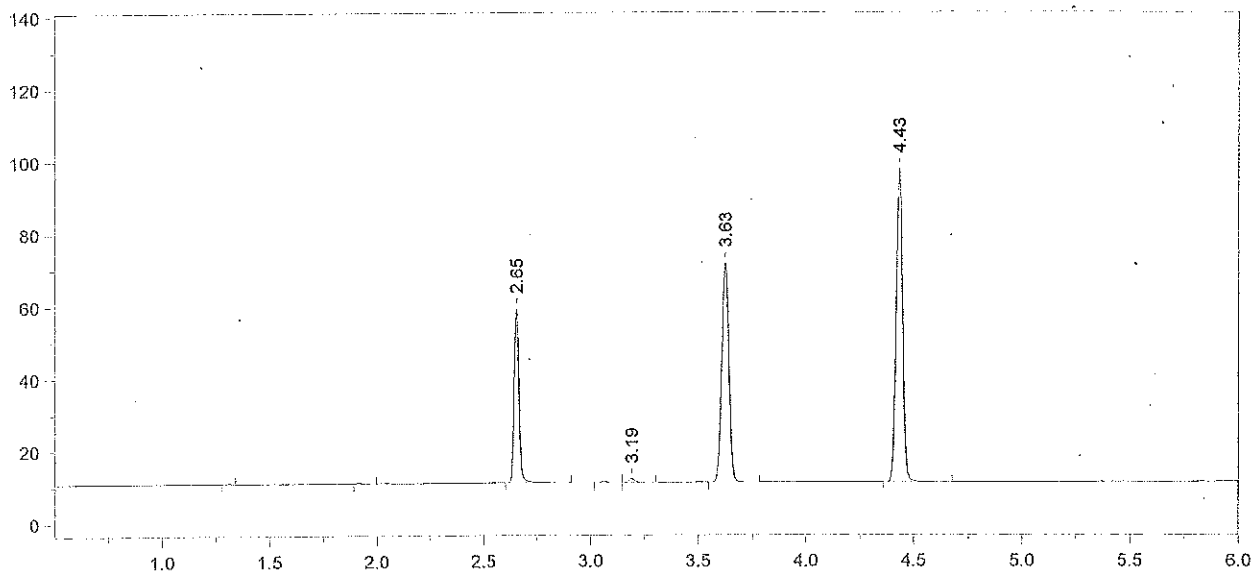


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:47:35 AM
Bound File Name = VFL01022014.0007.RAW
Sample Name = STD E
Date Taken = 1/2/2014 5:42:18 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	419392	0.4066
4	3.63	t-Butanol	141729	0.9707
5	4.43	n-Propanol	195321	1.0000

13-22-100 45



Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:47:40 AM
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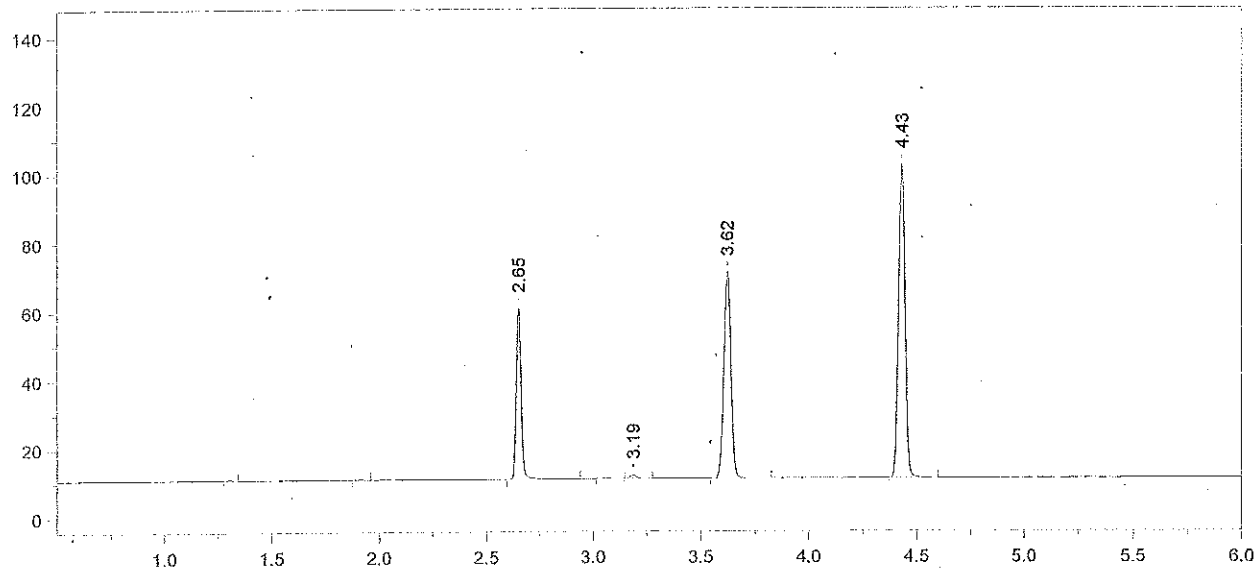
Sample Name = WB
Date Taken = 1/2/2014 5:59:41 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	75435	0.0778 *
5	3.19	Isopropanol	02044	<0.004
6	3.63	t-Butanol	140575	1.0241
7	4.43	n-Propanol	183632	1.0000

13-22-100 46 RZm



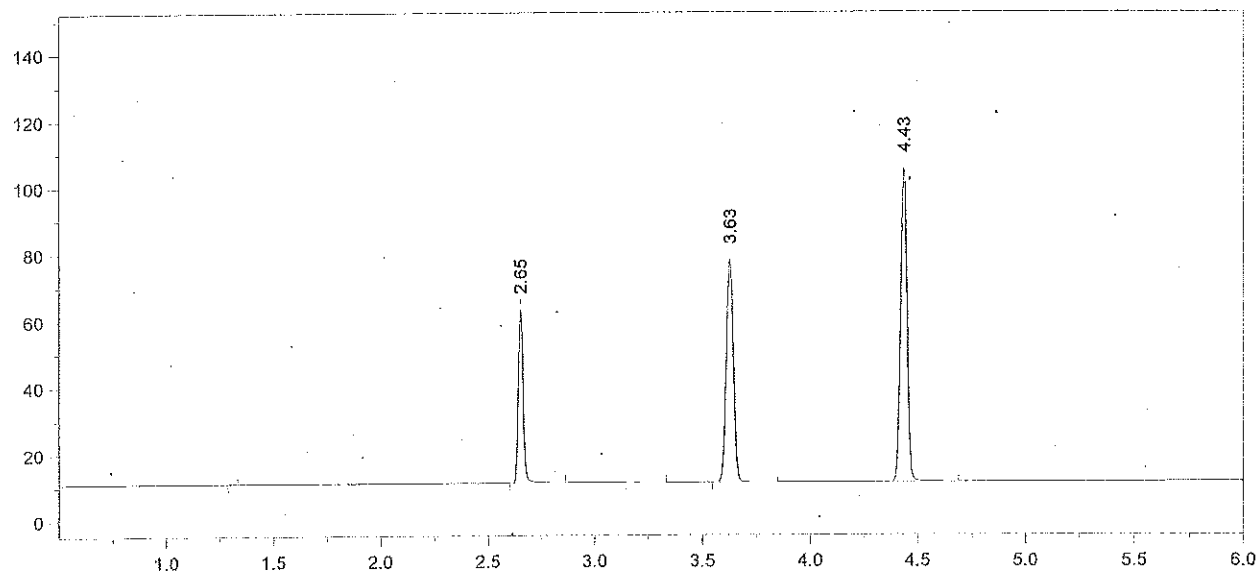
Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:47:45 AM
Bound File Name = VFL01022014.0009.RAW
Sample Name = WB
Date Taken = 1/2/2014 6:13:52 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	78283	0.0765 *
5	3.19	Isopropanol	02181	<0.004
6	3.62	t-Butanol	139774	0.9646
7	4.43	n-Propanol	193851	1.0000

Avg #8 + #9 = 0.077
Target value: 0.078
% recovery = 99 %
RZ 1/3/14

13-22-100 47 RZ

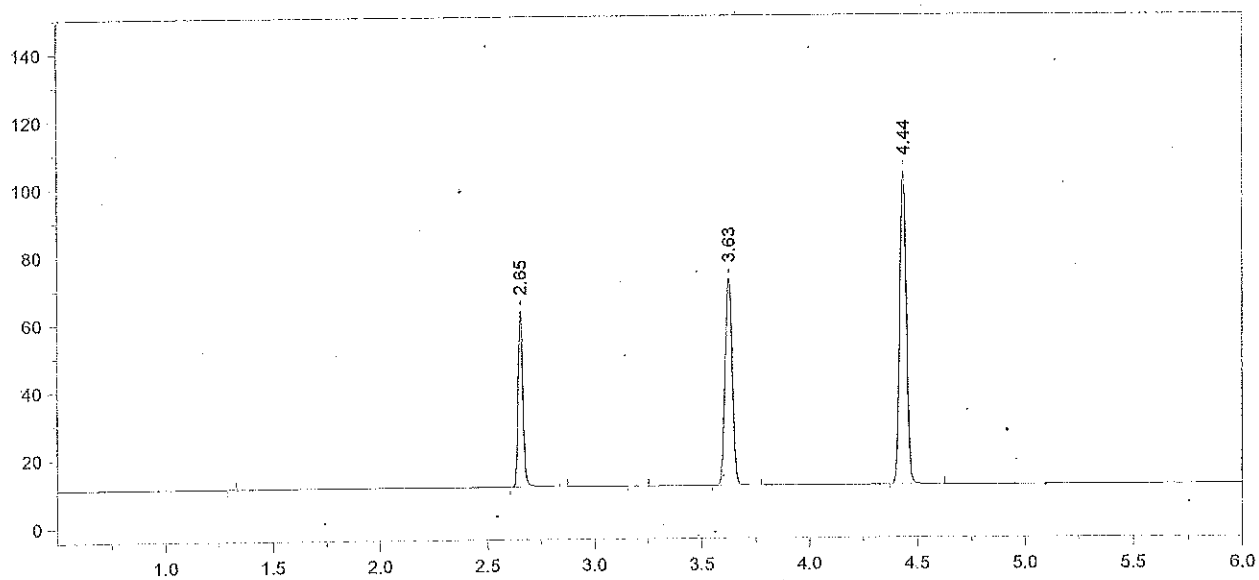


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:47:51 AM
Bound File Name = VFL01022014.0010.RAW
Sample Name = AQ QC
Date Taken = 1/2/2014 6:31:06 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	81618	0.0771
4	3.63	t-Butanol	154580	1.0312
5	4.43	n-Propanol	200520	1.0000

13-22-100 48



Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:51:38 AM
Bound File Name = VFL01022014.0011.RAW
Sample Name = AQ QC
Date Taken = 1/2/2014 6:44:49 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	81112	0.0779 *
4	3.63	t-Butanol	141827	0.9625
5	4.44	n-Propanol	197114	1.0000

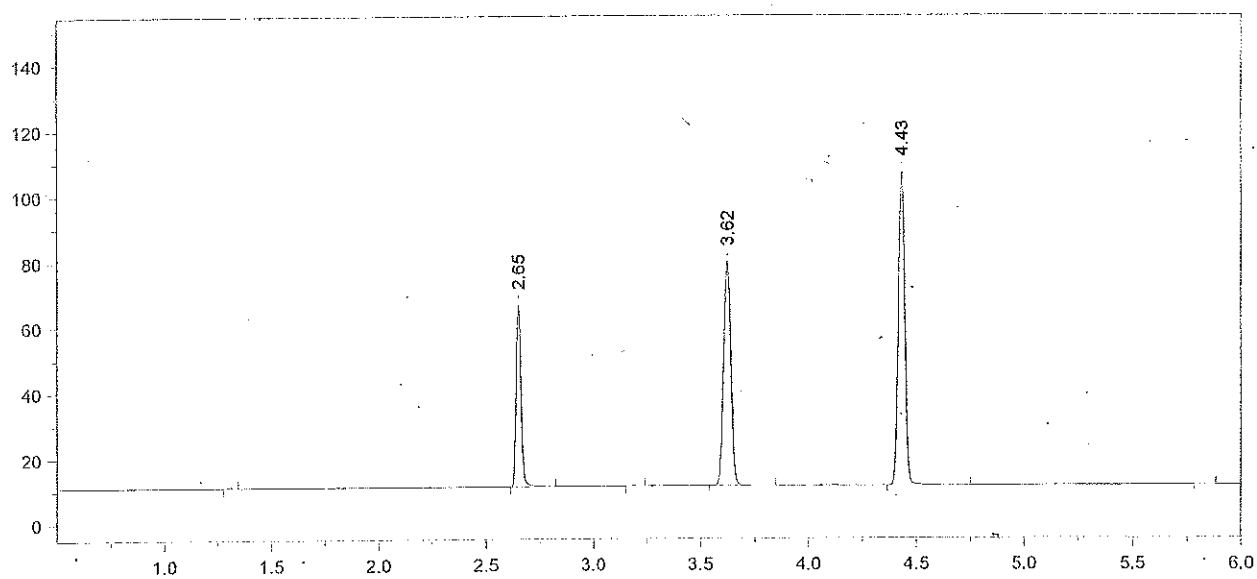
Avg #10 + #11 = 0.077

Target value: 0.080

% recovery = 96%

RZM 1/3/14

13-22-100 49 RZM

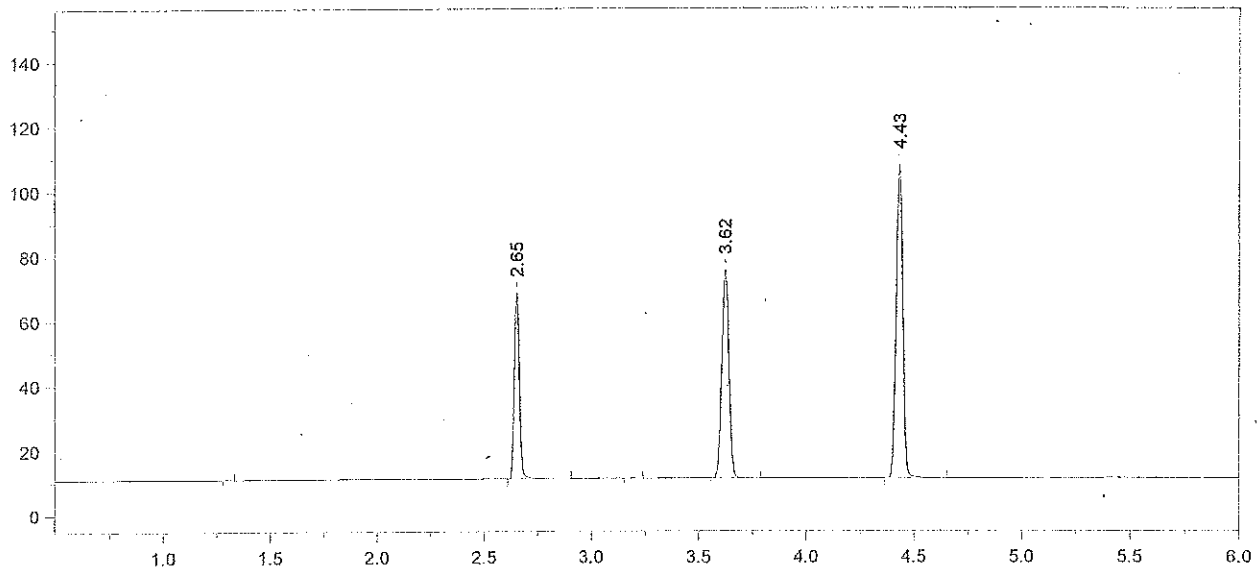


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:51:44 AM
Bound File Name = VFL01022014.0012.RAW
Sample Name = CCS
Date Taken = 1/2/2014 7:02:28 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	86617	0.0805 *
4	3.62	t-Butanol	158429	1.0396
5	4.43	n-Propanol	203852	1.0000

13-22-100 50



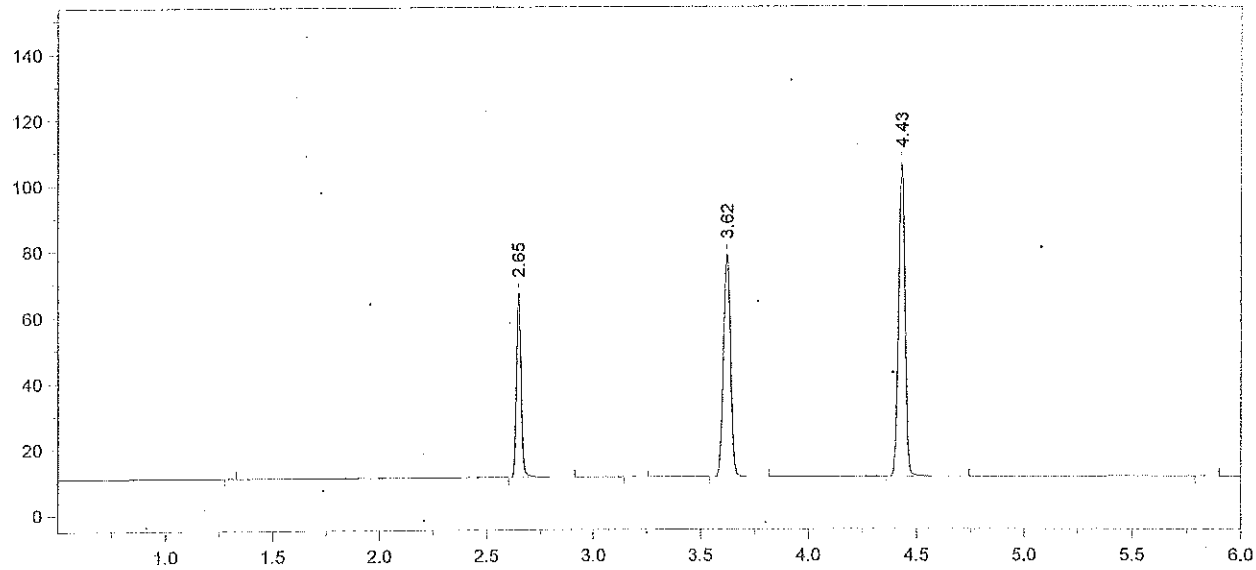
Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:51:49 AM
Bound File Name = VFL01022014.0013.RAW
Sample Name = CCS
Date Taken = 1/2/2014 7:16:26 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	90483	0.0832*
4	3.62	t-Butanol	148846	0.9666
5	4.43	n-Propanol	205995	1.0000

Avg #12 + #13 = 0.082
RZM 1/3/14

13-22-100 51 RZM

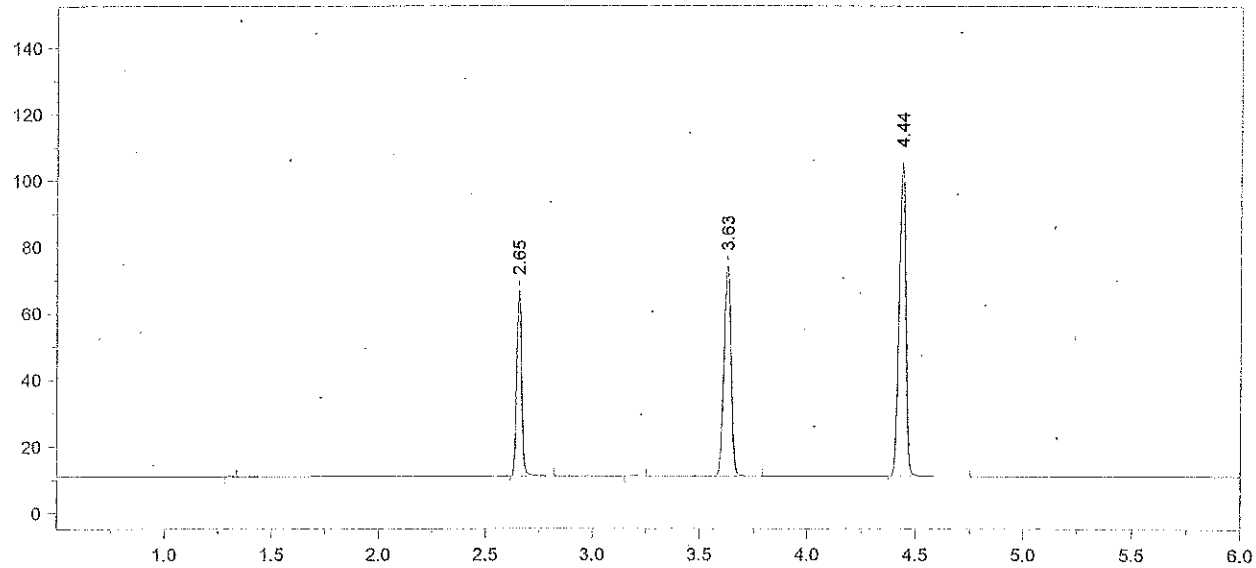


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:52:32 AM
Bound File Name = VFL01022014.0020.RAW
Sample Name = CCS
Date Taken = 1/2/2014 9:06:33 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87509	0.0819
4	3.62	t-Butanol	156711	1.0357
5	4.43	n-Propanol	202412	1.0000

13-22-100 52



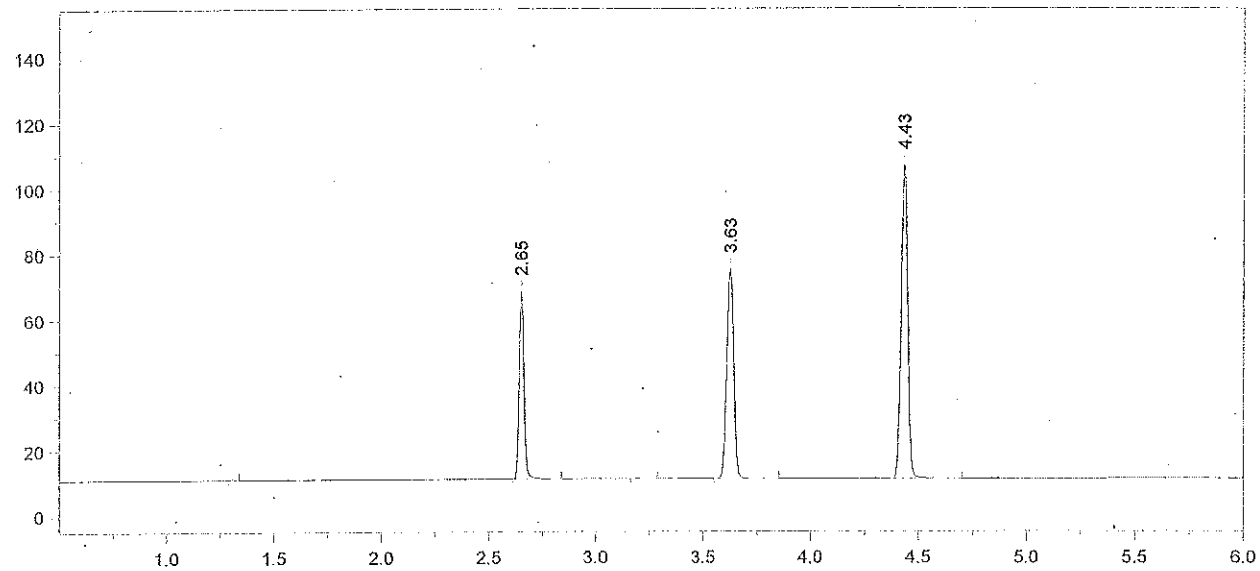
Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:52:38 AM
Bound File Name = VFL01022014.0021.RAW
Sample Name = CCS
Date Taken = 1/2/2014 9:20:20 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87562	0.0827 *
4	3.63	t-Butanol	146722	0.9784
5	4.44	n-Propanol	200599	1.0000

Avg # 20 + #21 = 0.082
RZM 1/3/14

13-22-100 53 RZM

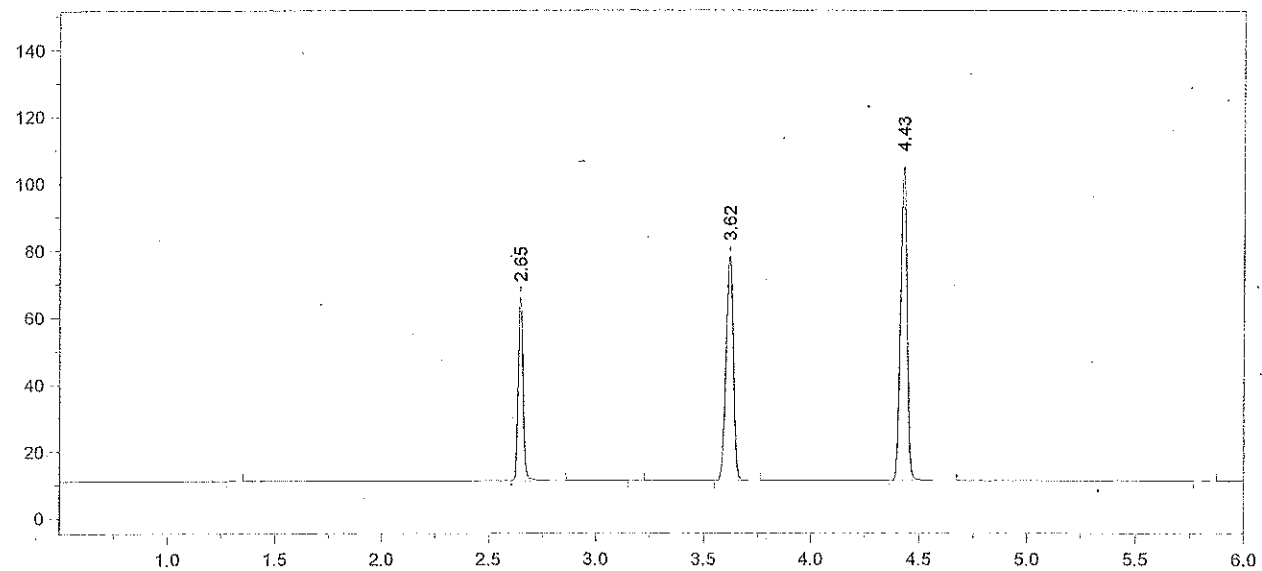


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:53:29 AM
Bound File Name = VFL01022014.0029.RAW
Sample Name = CCS
Date Taken = 1/2/2014 11:26:08 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	89353	0.0834 *
4	3.63	t-Butanol	148166	0.9771
5	4.43	n-Propanol	202839	1.0000

13-22-100 54



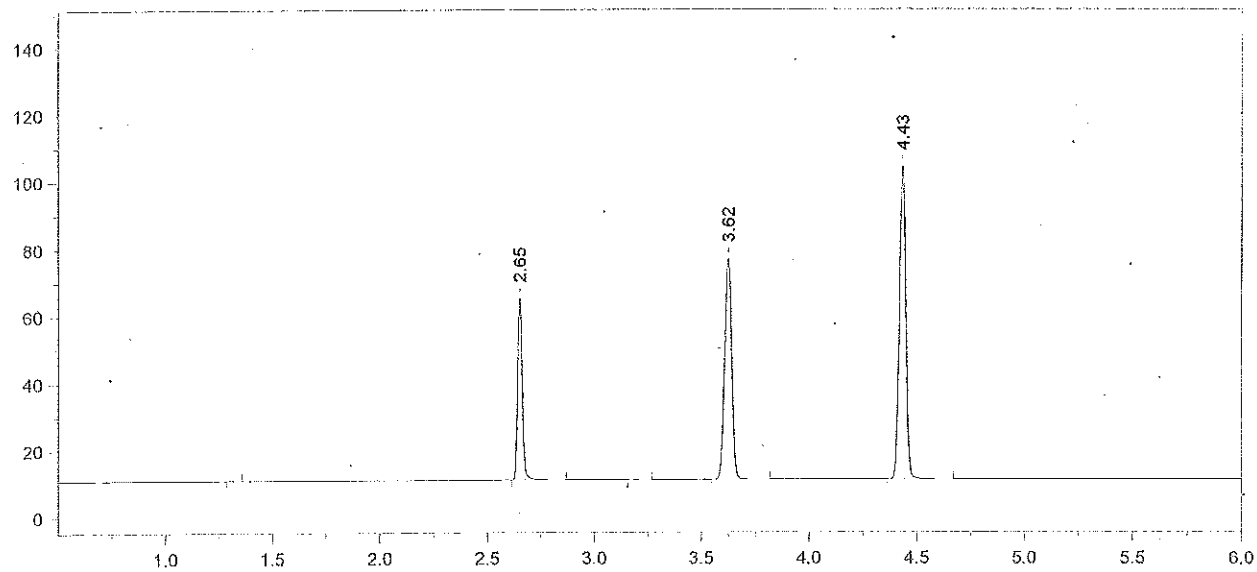
Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:53:37 AM
Bound File Name = VFL01022014.0030.RAW
Sample Name = CCS
Date Taken = 1/2/2014 11:43:40 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85816	0.0811
4	3.62	t-Butanol	155237	1.0366
5	4.43	n-Propanol	200333	1.0000

Avg #29 + #30 = 0.082
RZZ 1/3/14

13-22-100 55 RCM

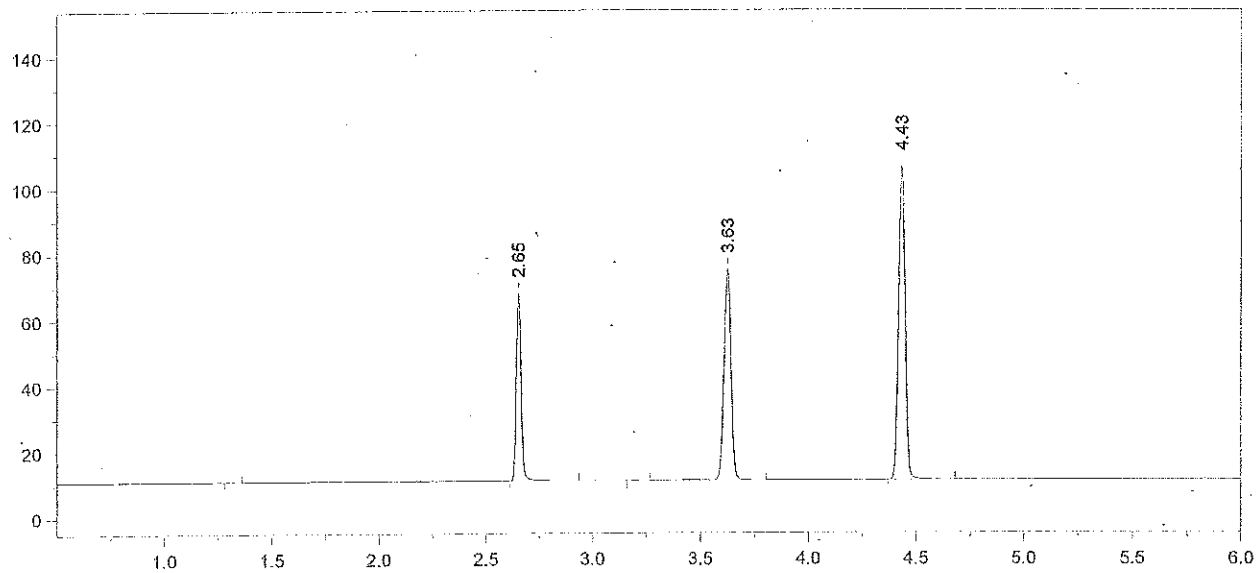


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:55:03 AM
Bound File Name = VFL01022014.0038.RAW
Sample Name = CCS
Date Taken = 1/3/2014 1:49:32 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85262	0.0812 *
4	3.62	t-Butanol	153268	1.0314
5	4.43	n-Propanol	198786	1.0000

13-22-100 56.



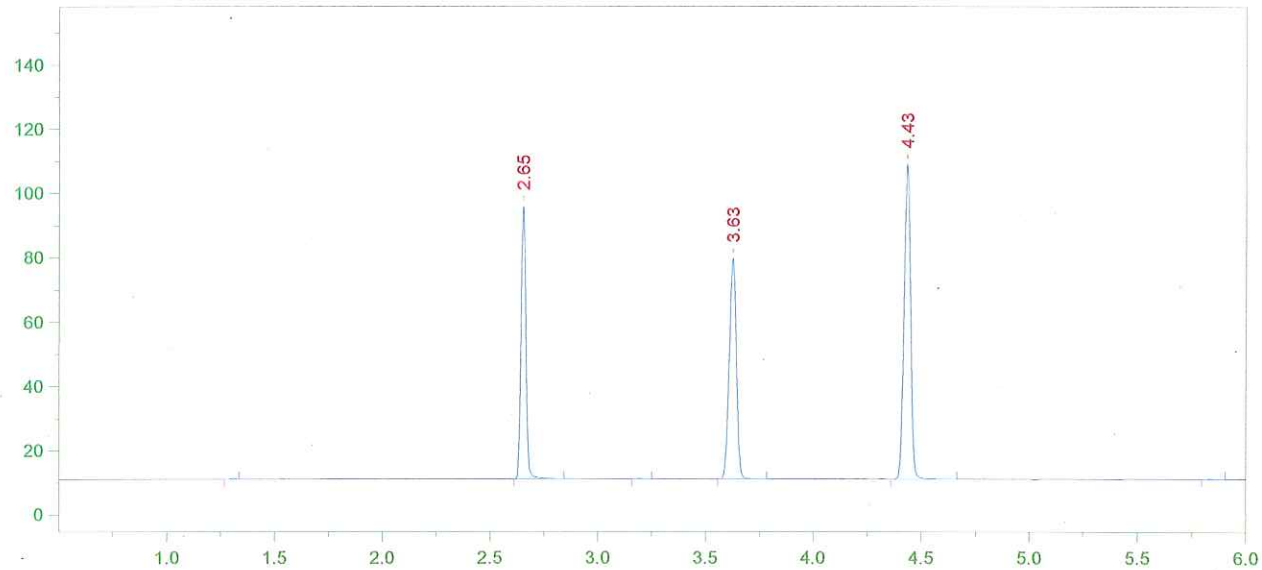
Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:55:10 AM
Bound File Name = VFL01022014.0039.RAW
Sample Name = CCS
Date Taken = 1/3/2014 2:03:15 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	89350	0.0833 *
4	3.63	t-Butanol	147961	0.9749
5	4.43	n-Propanol	203029	1.0000

Avg #38 + #39 = 0.082
RLM 1/3/14

13-22-100 57 RLM

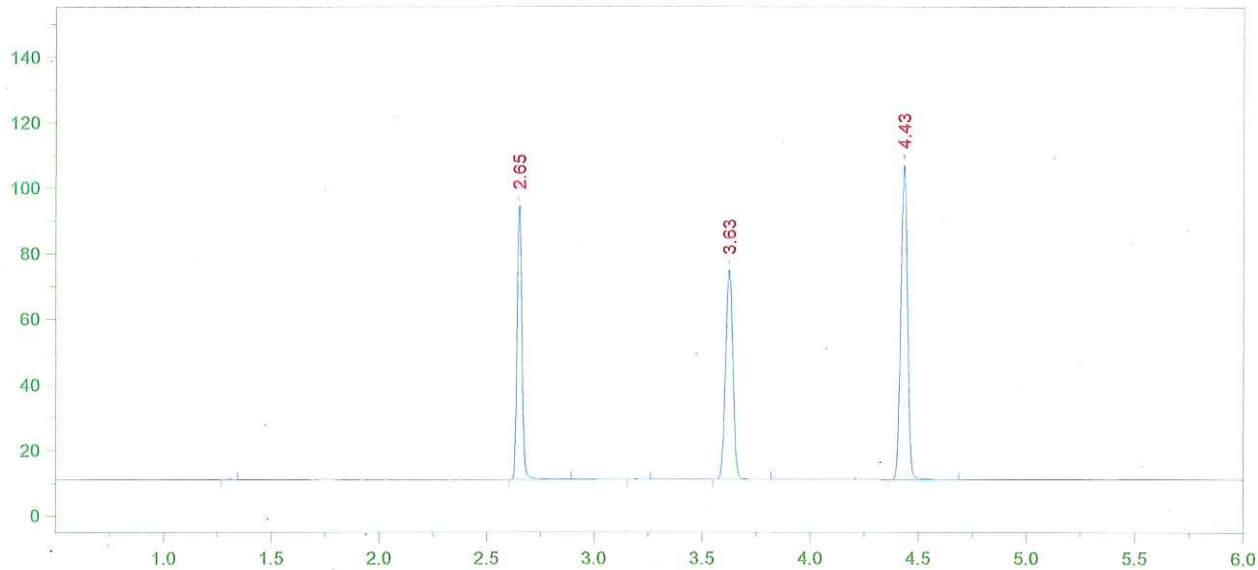


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/3/2014
Today's Time = 9:55:16 AM
Bound File Name = VFL01022014.0040.RAW
Sample Name = 13-22-100 RLM
Date Taken = 1/3/2014 2:19:26 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	131034	0.1192	0.0973
4	3.63	t-Butanol	159399	1.0244	0.8361
5	4.43	n-Propanol	208155	1.0000	0.8162

13-22-100 58 RLM



Format File Name = simsolnVFL.met.FMT

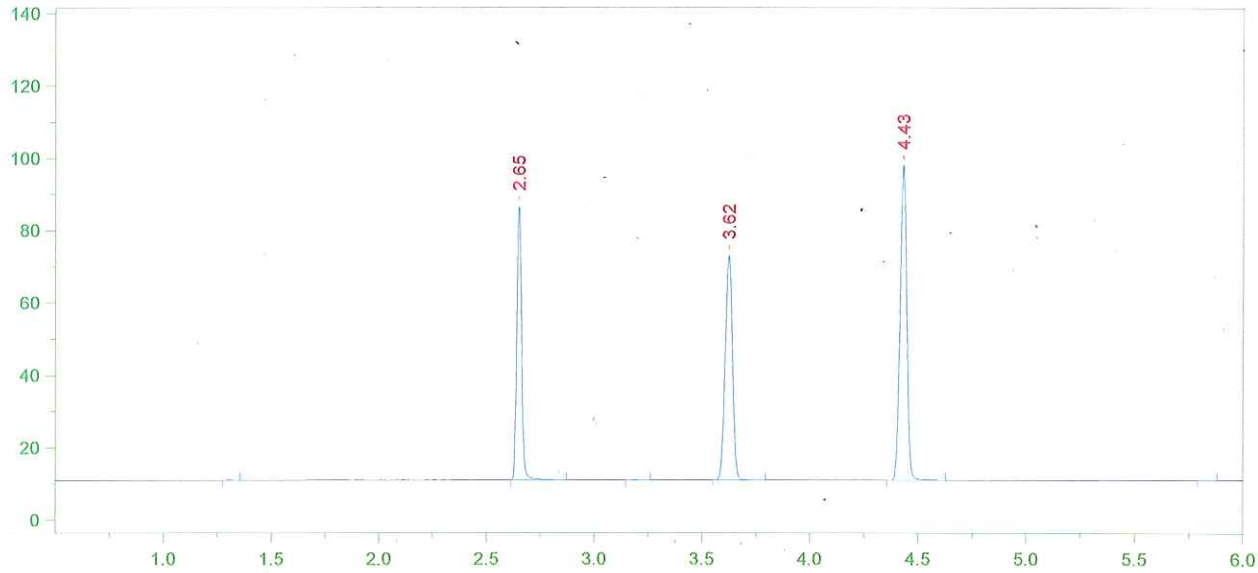
Today's Date = 1/3/2014
Today's Time = 9:55:21 AM
Bound File Name = VFL01022014.0041.RAW
Sample Name = 13-22-100 RLM
Date Taken = 1/3/2014 2:34:42 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130976	0.1214	0.0991
4	3.63	t-Butanol	148340	0.9713	0.7928
5	4.43	n-Propanol	204301	1.0000	0.8162

13-22-100
~~15-22-100~~
RLM 1/3/14

59

RLM



Format File Name = simsolnVFL.met.FMT

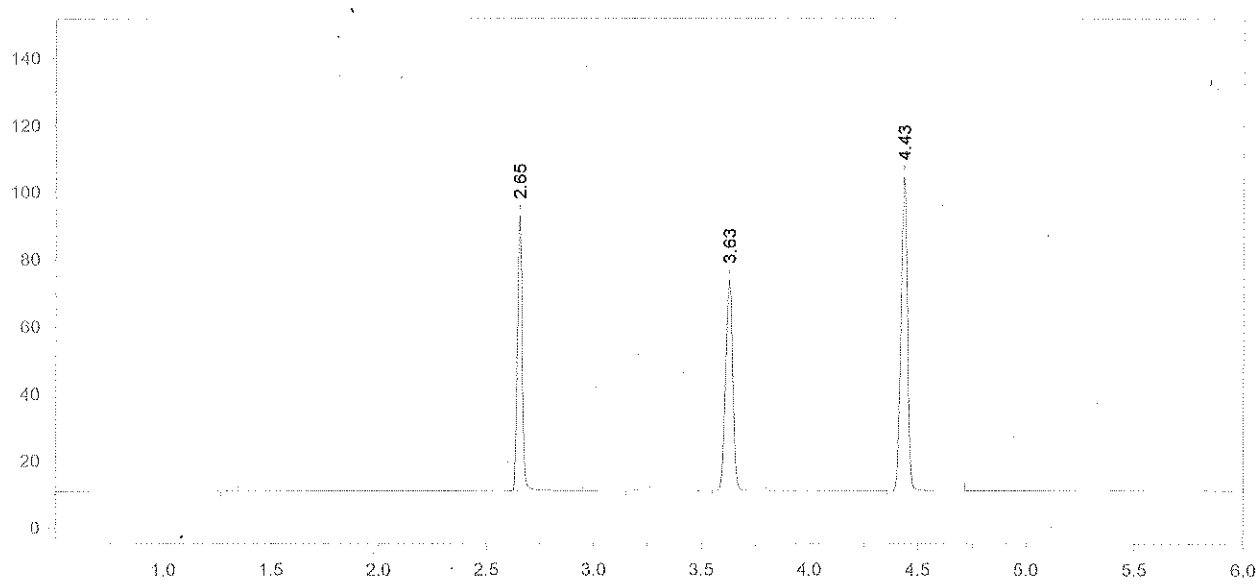
Today's Date = 1/3/2014
Today's Time = 9:55:28 AM
Bound File Name = VFL01022014.0042.RAW
Sample Name = 13-22-100 RLM
Date Taken = 1/3/2014 2:50:53 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	117449	0.1200	0.0979
4	3.62	t-Butanol	143752	1.0372	0.8466
5	4.43	n-Propanol	185395	1.0000	0.8162

13-22-100
~~15-22-100~~
RZM 1/3/14

60

RZM



Format File Name = simsolnVFL.met.FMT

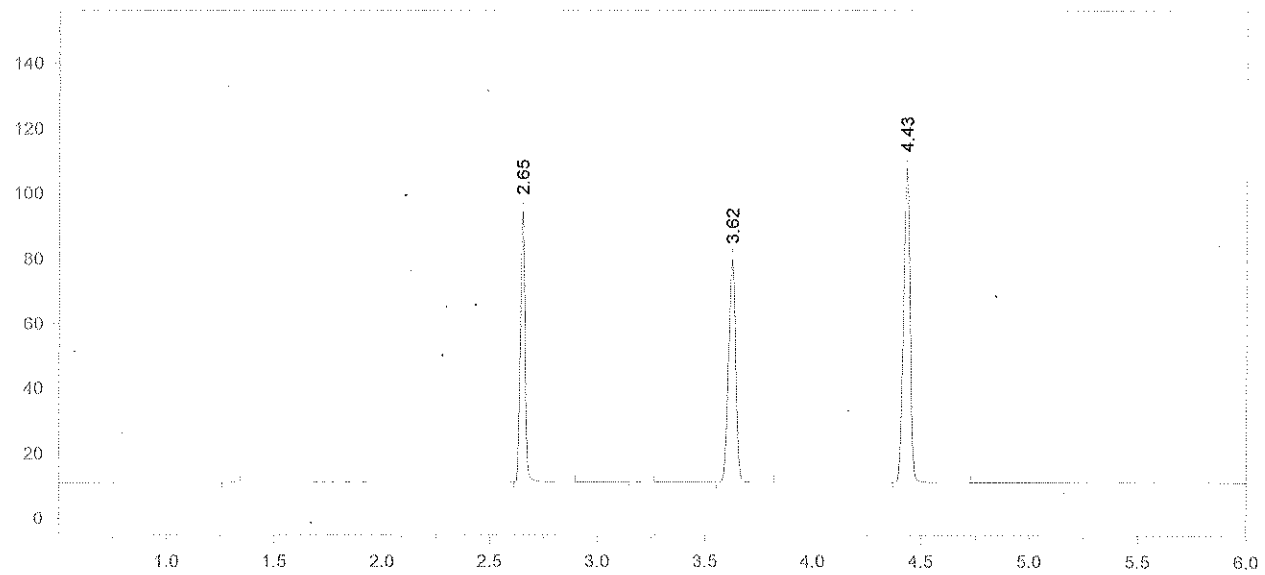
Today's Date = 1/3/2014
Today's Time = 10:40:10 AM
Bound File Name = VFL01022014.0043.RAW
Sample Name = 13-22-100 RLM
Date Taken = 1/3/2014 3:04:56 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128217	0.1221	0.0996
4	3.63	t-Butanol	145401	0.9778	0.7981
5	4.43	n-Propanol	198919	1.0000	0.8162

13-22-100
~~15-22-100~~
RZM 1/2/14

61

RZM

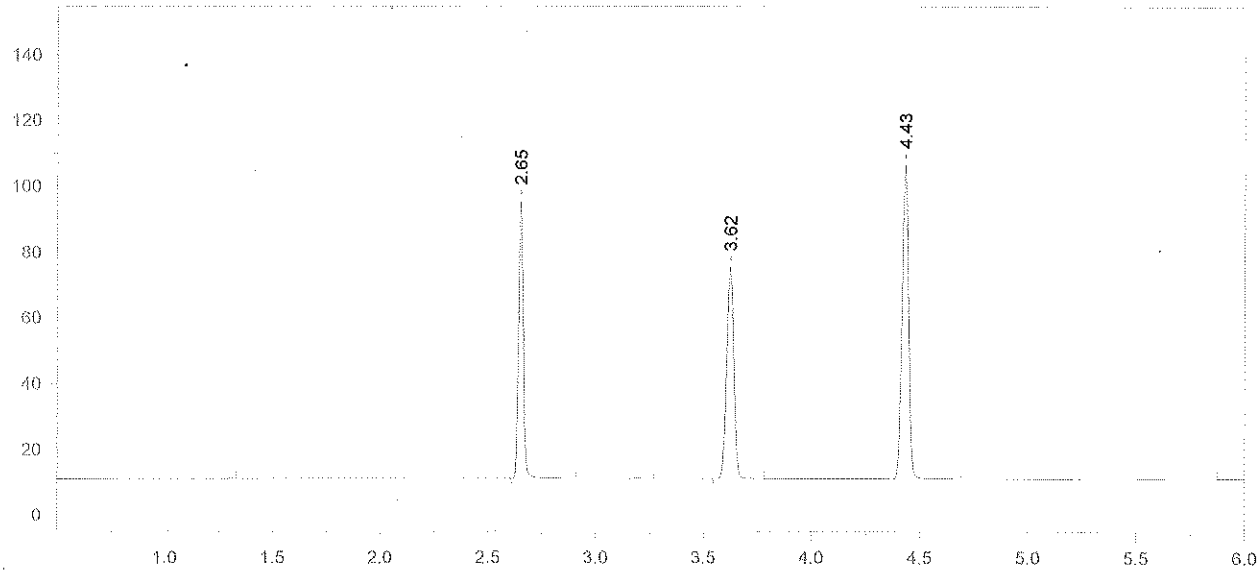


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/3/2014
Today's Time = 10:39:51 AM
Bound File Name = VFL01022014.0044.RAW
Sample Name = 13-22-100 RLM
Date Taken = 1/3/2014 3:20:39 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129359	0.1185	0.0967
4	3.62	t-Butanol	158720	1.0267	0.8380
5	4.43	n-Propanol	206808	1.0000	0.8162

13-22-100 62 RZ

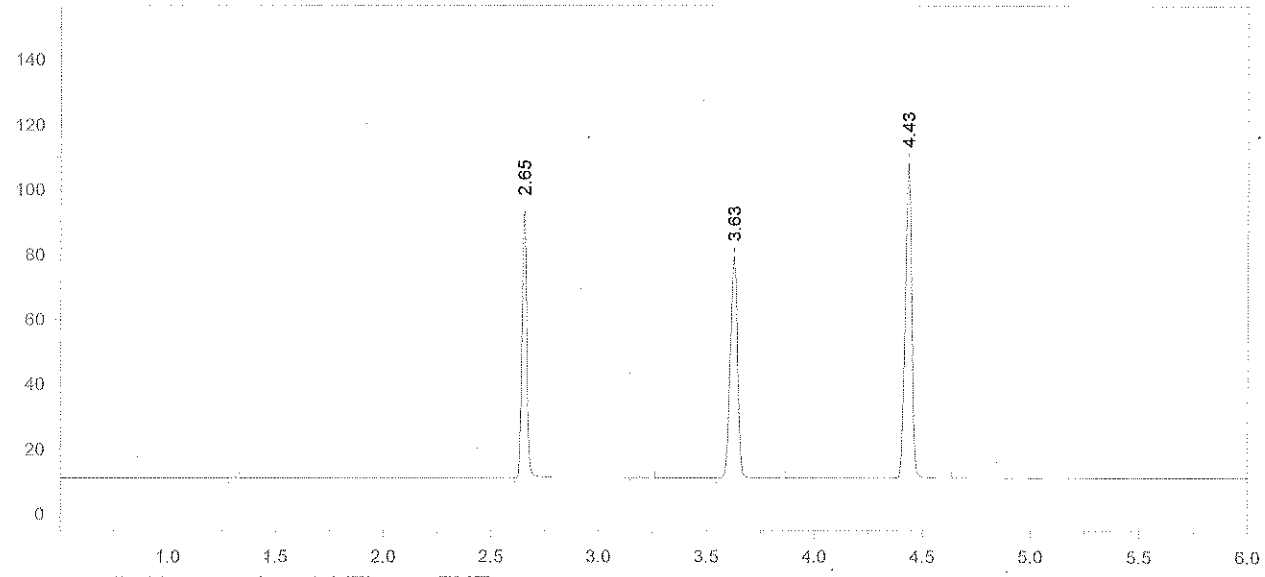


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/3/2014
Today's Time = 10:38:40 AM
Bound File Name = VFL01022014.0045.RAW
Sample Name = 13-22-100 RLM
Date Taken = 1/3/2014 3:36:05 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130848	0.1215	0.0992
4	3.62	t-Butanol	148881	0.9766	0.7971
5	4.43	n-Propanol	203928	1.0000	0.8162

13-22-100 63 RLM

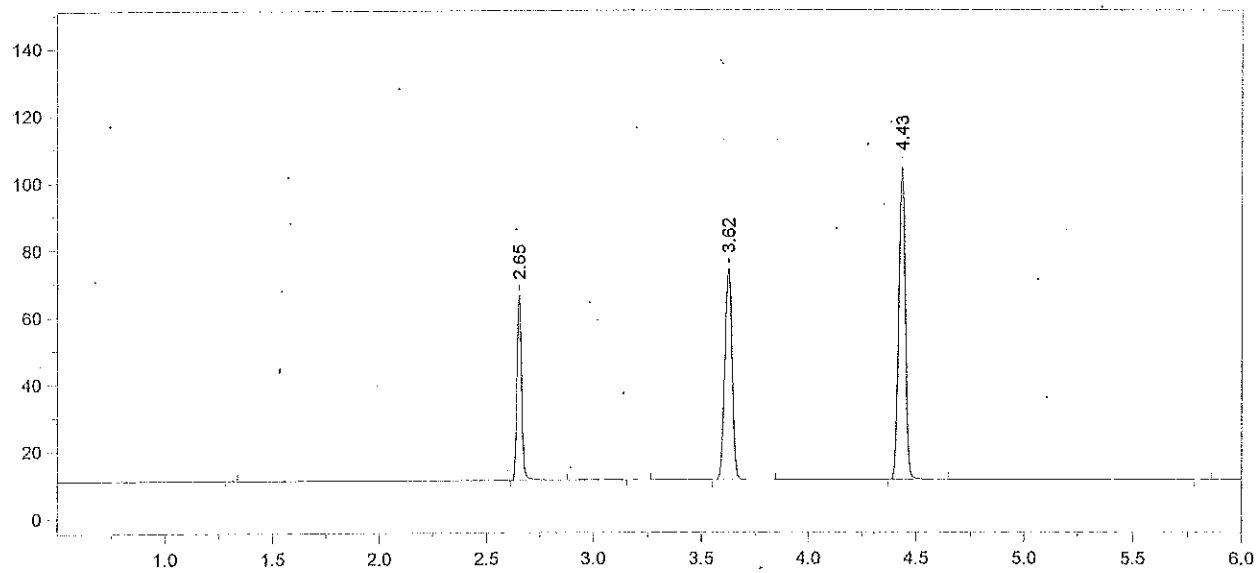


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/3/2014
Today's Time = 10:38:14 AM
Bound File Name = VFL01022014.0046.RAW
Sample Name = 13-22-100 RLM
Date Taken = 1/3/2014 3:52:11 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127900	0.1184	0.0966
4	3.63	t-Butanol	158550	1.0364	0.8459
5	4.43	n-Propanol	204644	1.0000	0.8162

13-22-100 64 RLM

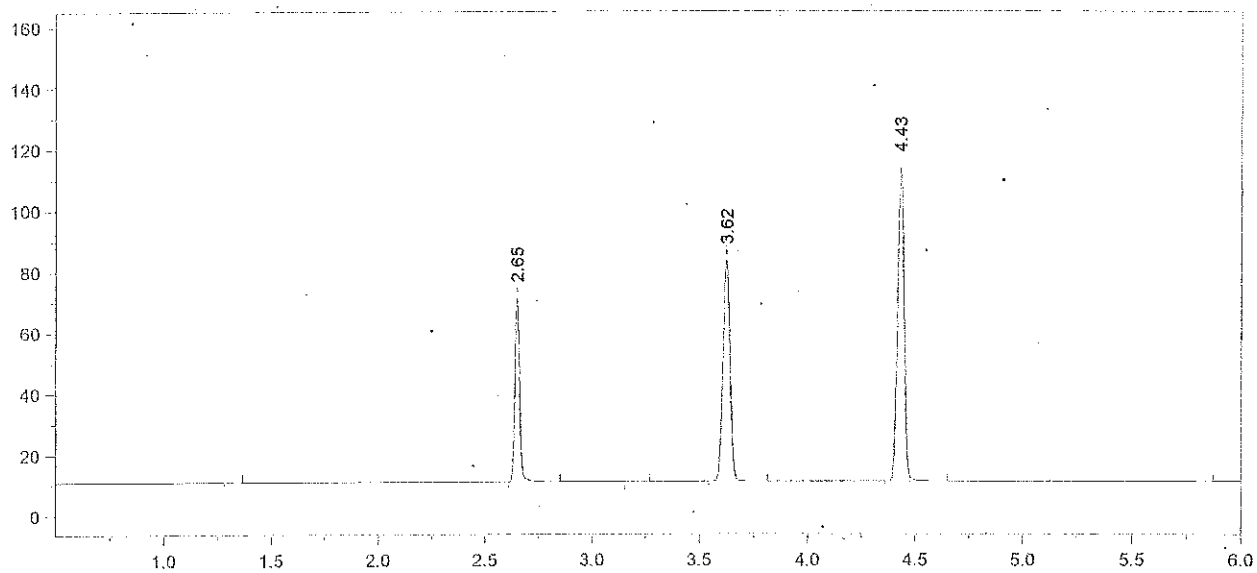


Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 10:37:48 AM
Bound File Name = VFL01022014.0047.RAW
Sample Name = CCS
Date Taken = 1/3/2014 4:06:14 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	87072	0.0831
4	3.62	t-Butanol	146453	0.9869
5	4.43	n-Propanol	198504	1.0000

13-22-100 65



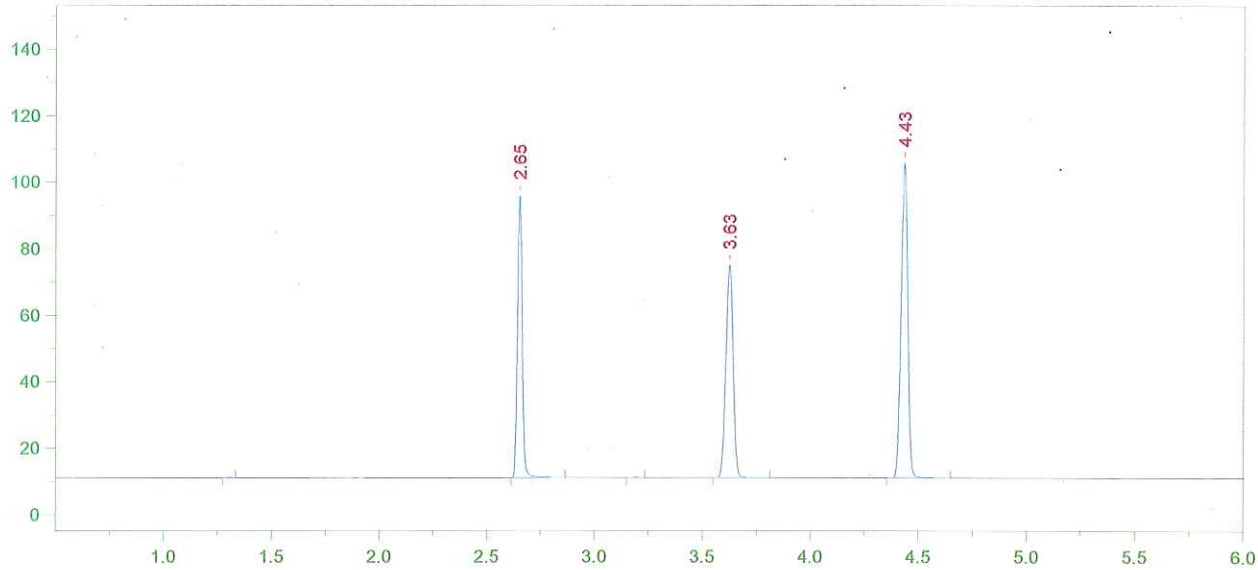
Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:56:07 AM
Bound File Name = VFL01022014.0048.RAW
Sample Name = CCS
Date Taken = 1/3/2014 4:21:55 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	93827	0.0812 *
4	3.62	t-Butanol	167783	1.0261
5	4.43	n-Propanol	218747	1.0000

Avg #47+#48 = 0.082
RZM 1/3/14

13-22-100 66 RZM

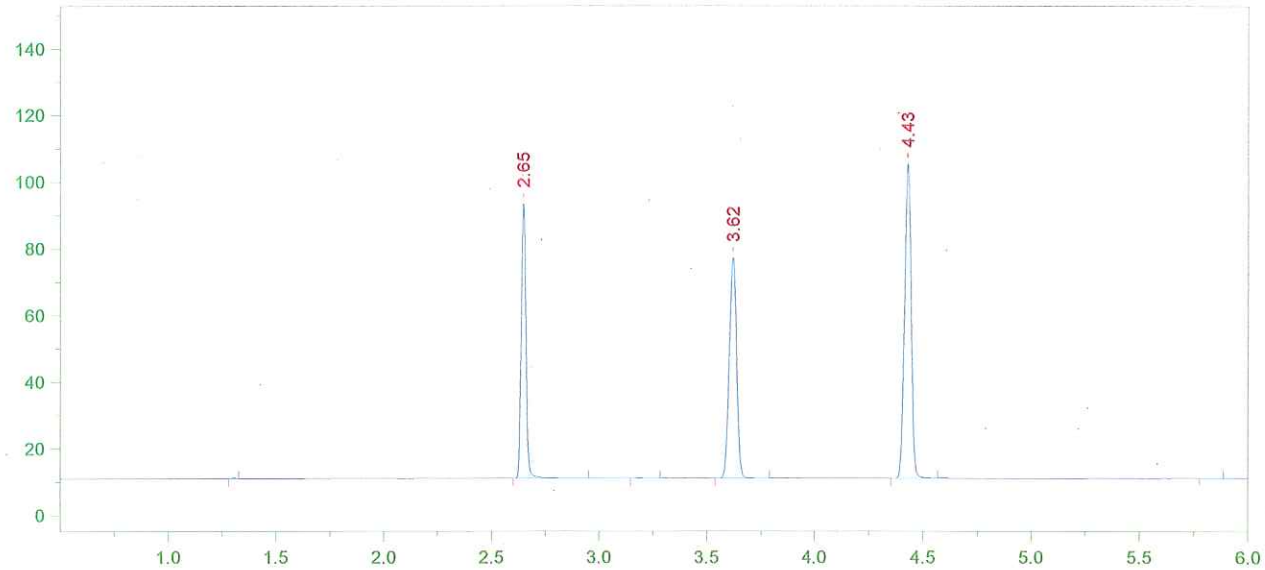


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/3/2014
Today's Time = 9:56:13 AM
Bound File Name = VFL01022014.0049.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/3/2014 4:37:21 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	131942	0.1239	0.1011
4	3.63	t-Butanol	148498	0.9846	0.8037
5	4.43	n-Propanol	201751	1.0000	0.8162

13-22-100 67 RZM

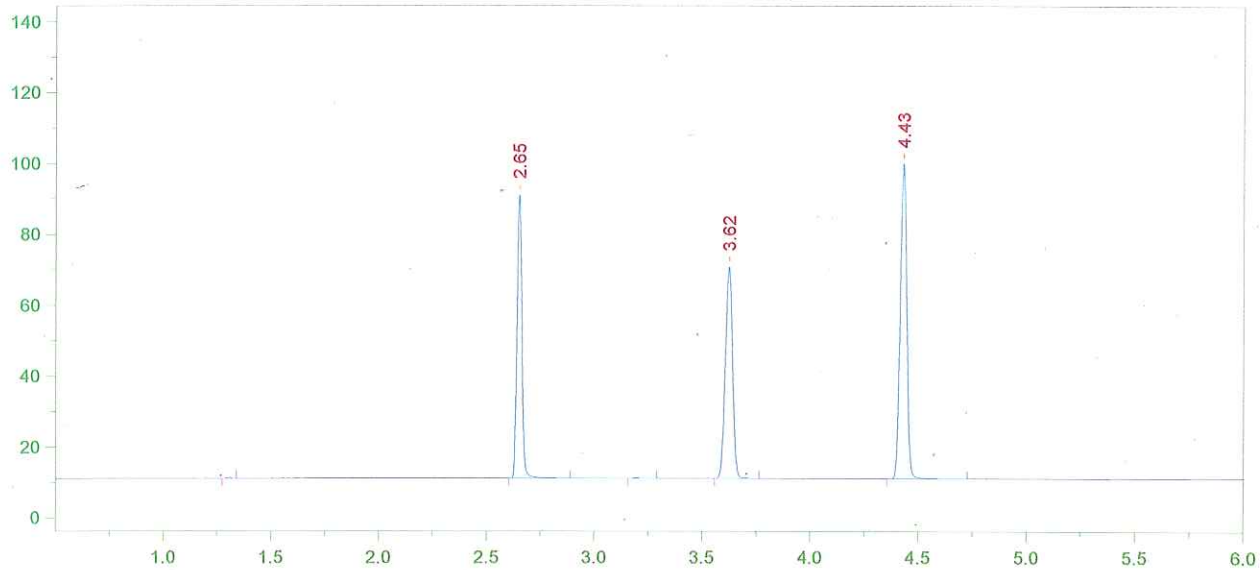


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/3/2014
Today's Time = 9:56:19 AM
Bound File Name = VFL01022014.0050.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/3/2014 4:51:47 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	129443	0.1222	0.0997
4	3.62	t-Butanol	153683	1.0247	0.8363
5	4.43	n-Propanol	200637	1.0000	0.8162

13-22-100 68

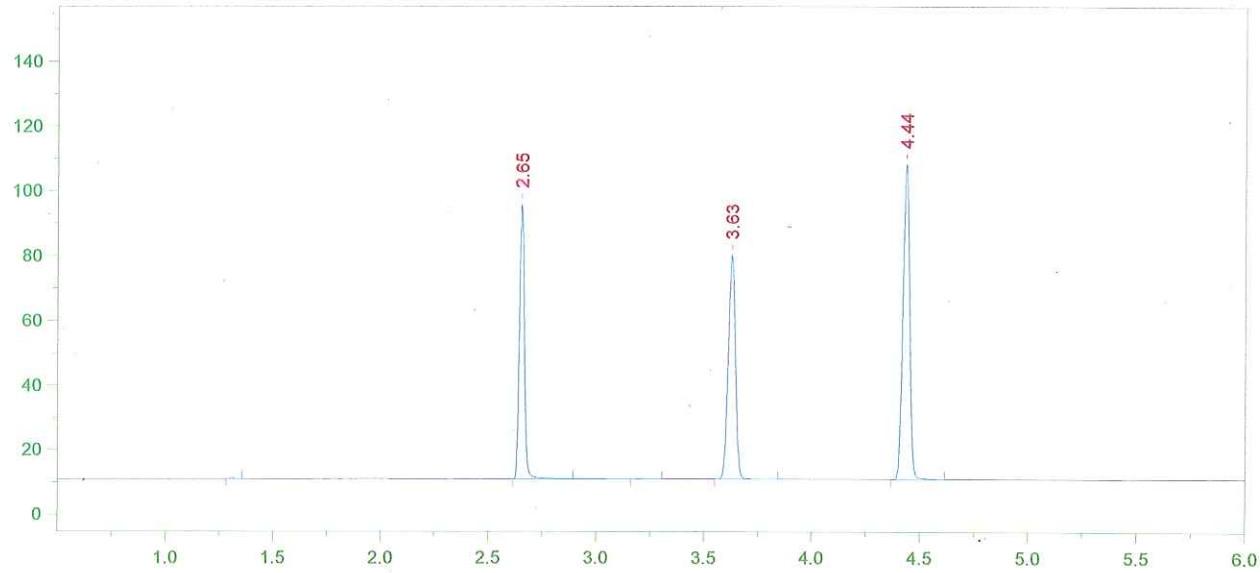


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/3/2014
Today's Time = 9:56:26 AM
Bound File Name = VFL01022014.0051.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/3/2014 5:07:55 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	124525	0.1241	0.1013
4	3.62	t-Butanol	138213	0.9733	0.7944
5	4.43	n-Propanol	189960	1.0000	0.8162

13-22-100 69 [illegible]



Format File Name = simsolnVFL.met.FMT

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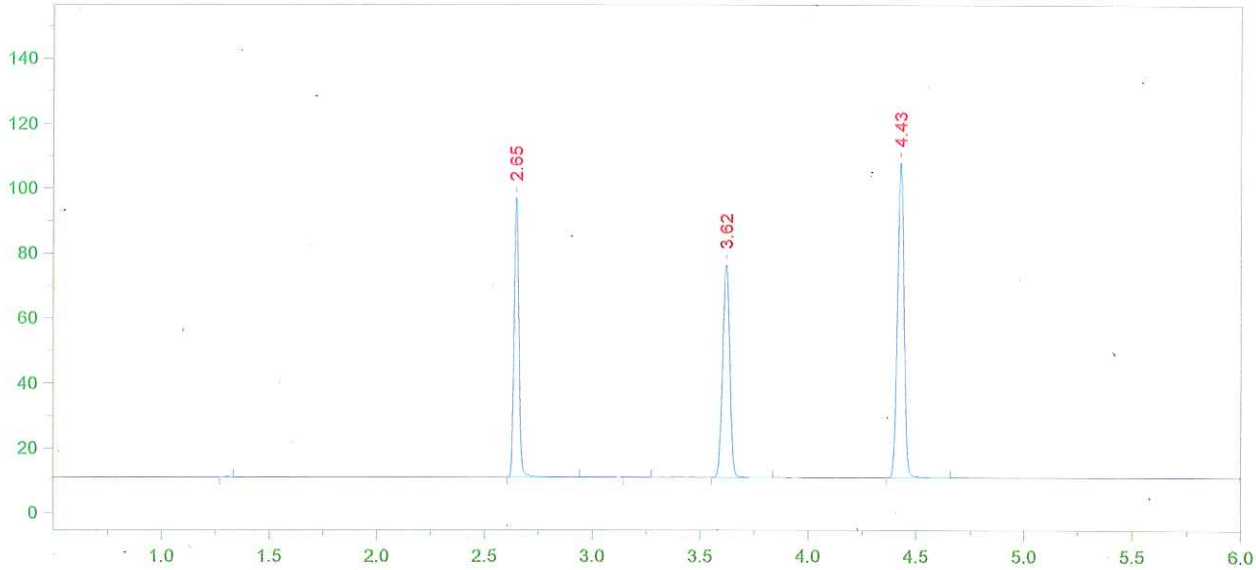
Today's Time = 9:56:34 AM
Bound File Name = VFL01022014.0052.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/3/2014 5:22:03 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	131890	0.1206	0.0985
4	3.63	t-Butanol	160280	1.0356	0.8453
5	4.44	n-Propanol	207037	1.0000	0.8162

13-22-100 70 [illegible]

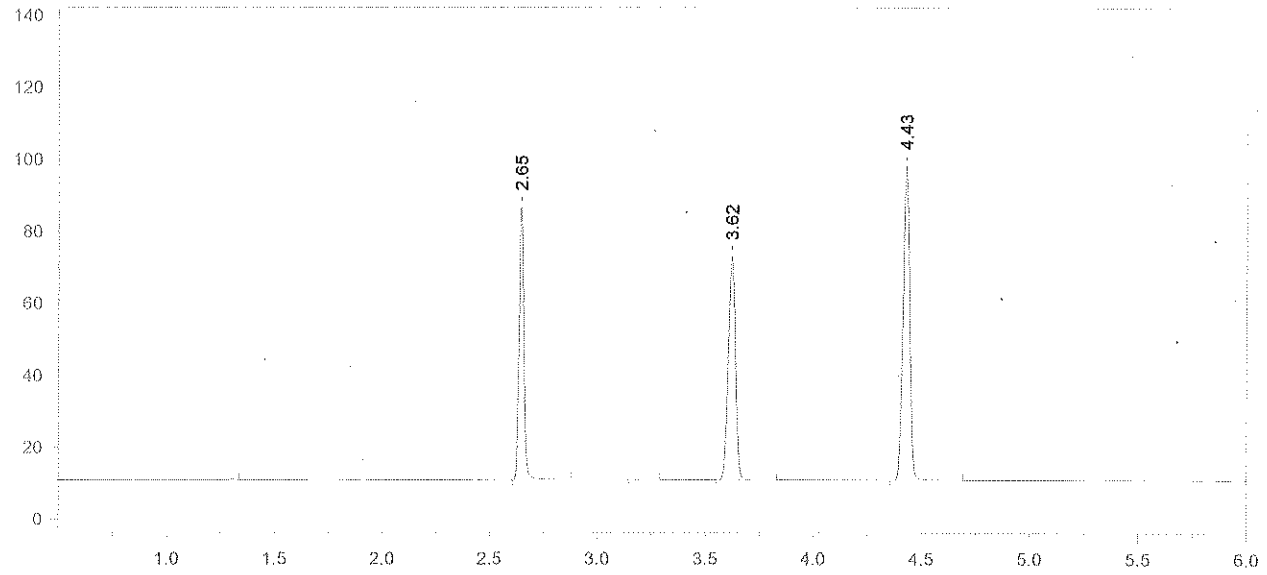


Format File Name = simsolnVFL.met.FMT

Today's Date = 1/3/2014
Today's Time = 10:09:16 AM
Bound File Name = VFL01022014.0053.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/3/2014 5:38:10 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	134862	0.1235	0.1008
4	3.62	t-Butanol	151561	0.9802	0.8001
5	4.43	n-Propanol	206833	1.0000	0.8162

13-22-100 71 RZn



Format File Name = simsolnVFL.met.FMT

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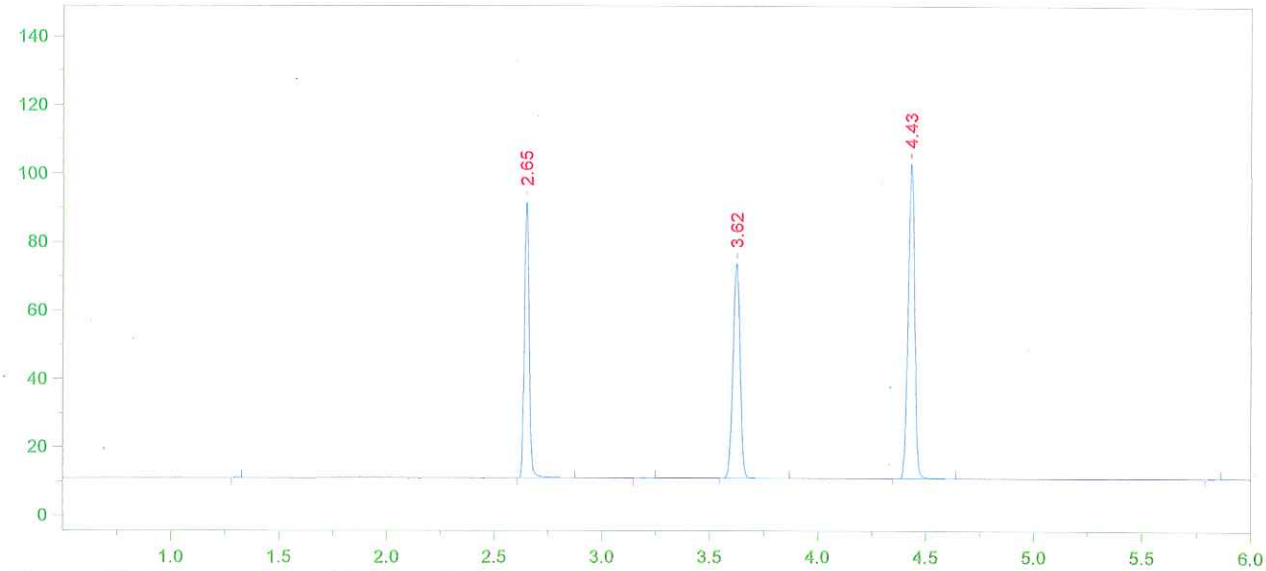
Today's Time = 10:10:49 AM
Bound File Name = VFL01022014.0054.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/3/2014 5:54:18 AM
VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	118822	0.1206	0.0985
4	3.62	t-Butanol	144568	1.0369	0.8463
5	4.43	n-Propanol	186518	1.0000	0.8162

13-22-100 72 MM



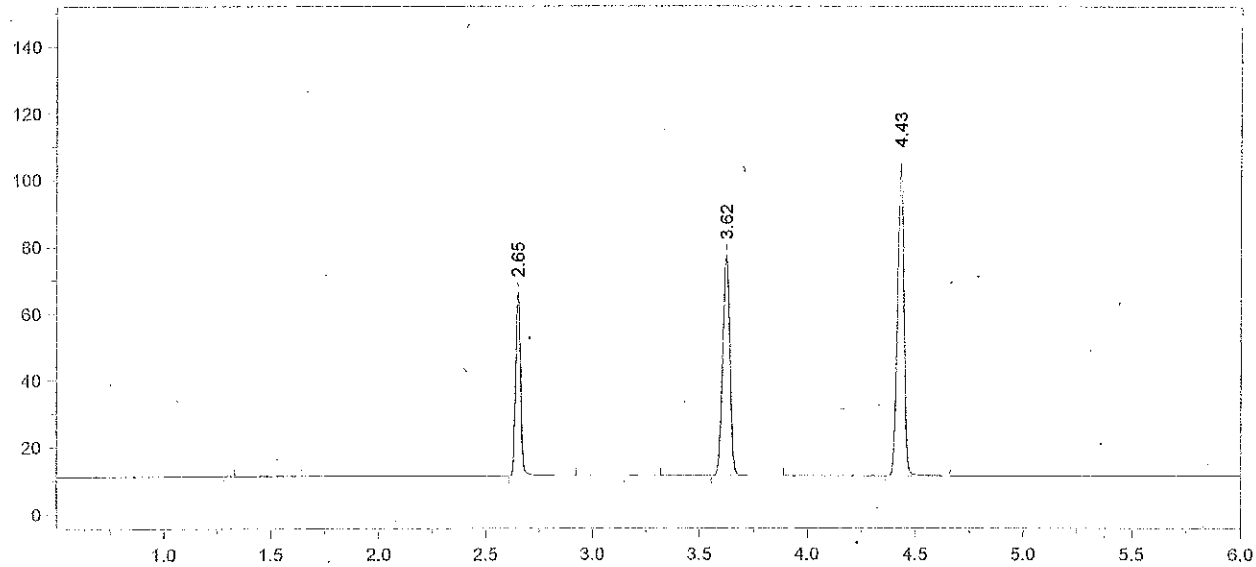
Format File Name = simsolnVFL.met.FMT

Today's Date = 1/3/2014 Today's Time = 9:56:51 AM
Bound File Name = VFL01022014.0055.RAW
Sample Name = 13-22-100 ALB
Date Taken = 1/3/2014 6:08:41 AM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL01022014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	125539	0.1211	0.0989
4	3.62	t-Butanol	145434	0.9912	0.8090
5	4.43	n-Propanol	196286	1.0000	0.8162

13-22-100 73 RZn

Chrom Perfect Chromatogram Report



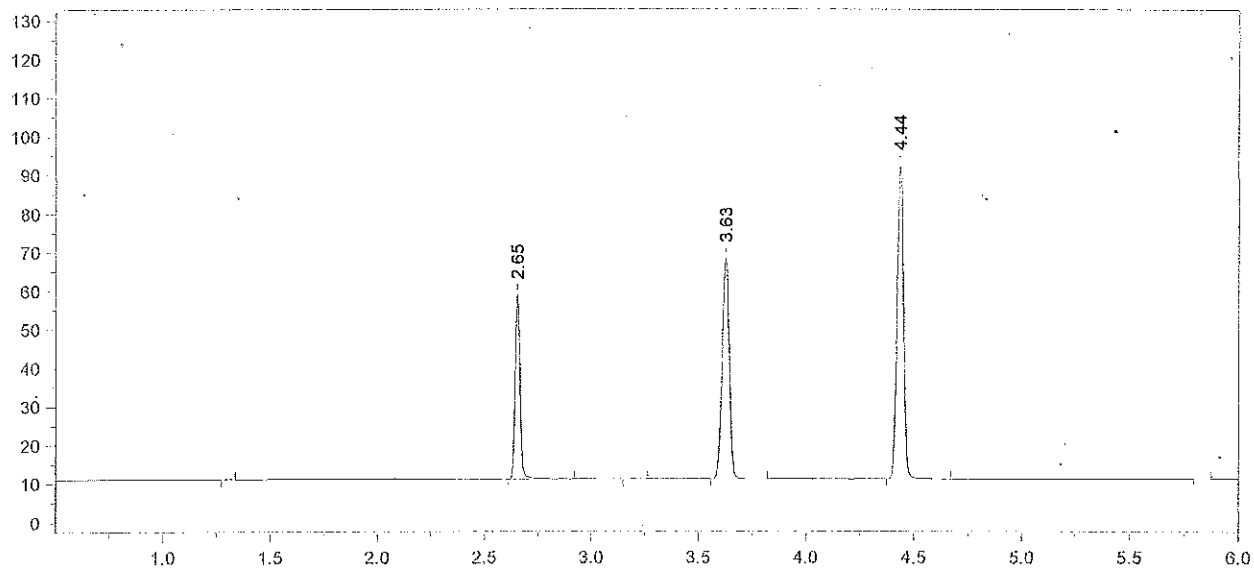
Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:56:59 AM
Bound File Name = VFL01022014.0056.RAW
Sample Name = CCS
Date Taken = 1/3/2014 6:25:47 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85852	0.0820 *
4	3.62	t-Butanol	152907	1.0315
5	4.43	n-Propanol	198293	1.0000

13-22-100 74

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 1/3/2014
Today's Time = 9:57:07 AM
Bound File Name = VFL01022014.0057.RAW
Sample Name = CCS
Date Taken = 1/3/2014 6:39:50 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL01022014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	75594	0.0824*
4	3.63	t-Butanol	132759	1.0223
5	4.44	n-Propanol	173717	1.0000

Avg #56 + #57 = 0.082
RRR 1/3/14

13-22-100 75 RRR