VERMONT FORENSIC LABORATORY

SIMULATOR SOLUTION
~~BLOOD ALCOHOL~~ DATA REVIEW CHECKLIST

RLM 9/16/14

LOT #:

~~AGENCY CASE#~~: 14-12-100 ANALYST: RLM

LAB #: N/A RLM 9/16/14

TECHNICAL REVIEWER: RLM DATE: 9/16/14

- [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?
- [N/A] Individual replicates within ± 5% of the statistical mean?
- [N/A] 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: TLCA DATE: 9/17/2014

- [N/A] Agency Case # and Lab # match submission form?
- [N/A] Submitting agency, investigator, suspect, CC match submission form?
- [N/A] Chain of Custody is complete and dated appropriately?
- [✓] 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 #)?
- [N/A] Is the exam end date documented in the paper case file consistent with the exam end date in LIMS?

Comments:

DIRECTOR REVIEWER: TLCA DATE: 9/17/2014

- [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

VERMONT FORENSIC LABORATORY

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Certificate of Analysis of DataMaster External Standard Solution

On 9/10/2014, an ethanol solution was prepared by Rebecca Mead for use as a DataMaster External Standard solution. The solution was prepared per standard laboratory practice and assigned the lot number 14-12-100 and an expiration date of 9/10/2015.

On 9/11/2014 and 9/12/2014, the solution was analyzed against calibration VFL09112014 and VFL09122014. 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 0.098 g/210L simulated breath ethanol concentration and approved for use as a DataMaster External Standard solution.

Dated at Waterbury, Vermont on Tuesday, September 16, 2014.

Rebecca Mead

VERMONT FORENSIC LABORATORY
Simulator Solution Worksheet

0.10 External Standard 20L
Lot # 14-12-100
Prepared 9/10/2014 by RLM
Exp 9/10/2015

RLM CAL VFL09112014
RLM/ALB Vials
Analyzed on 9/11/2014

0.0970	rlm
0.0997	
0.0967	
0.0991	
0.0969	
0.0991	
0.0979	
0.0986	alb
0.0974	
0.1000	
0.0977	
0.0998	
0.0983	
0.1004	

Ave. =	0.0985
Std Dev. =	0.0012
Range =	0.0967-0.1004

RLM CAL VFL09122014
RLM/ALB Vials
Analyzed on 9/12/2014

0.0993	rlm
0.0976	
0.0997	
0.0973	
0.0988	
0.0978	
0.0999	
0.0966	alb
0.0989	
0.0983	
0.1007	
0.0981	
0.1006	
0.0983	

Ave. =	0.0987
Std Dev. =	0.0012
Range =	0.0966-0.1007

Total Values from Both Runs

Average	Mean
0.0970	0.0966
0.0997	0.0967
0.0967	0.0969
0.0991	0.0970
0.0969	0.0973
0.0991	0.0974
0.0979	0.0976
0.0986	0.0977
0.0974	0.0978
0.1000	0.0979
0.0977	0.0981
0.0998	0.0983
0.0983	
0.1004	
0.0993	0.0986
0.0976	0.0988
0.0997	0.0989
0.0973	0.0991
0.0988	
0.0978	0.0993
0.0999	0.0997
0.0966	
0.0989	0.0998
0.0983	0.0999
0.1007	0.1000
0.0981	0.1004
0.1006	0.1006
0.0983	0.1007

Ave. =	0.0986
Avg Std Dev. =	0.0012
Mean =	0.0985
Mean Std Dev. =	0.0013
Range =	0.0966-0.1007
RPD =	4.16%

14-12-100 Page 1 of 69 rlm

File Name: C:\Methods\VFL09112014.CAL
Version: 7

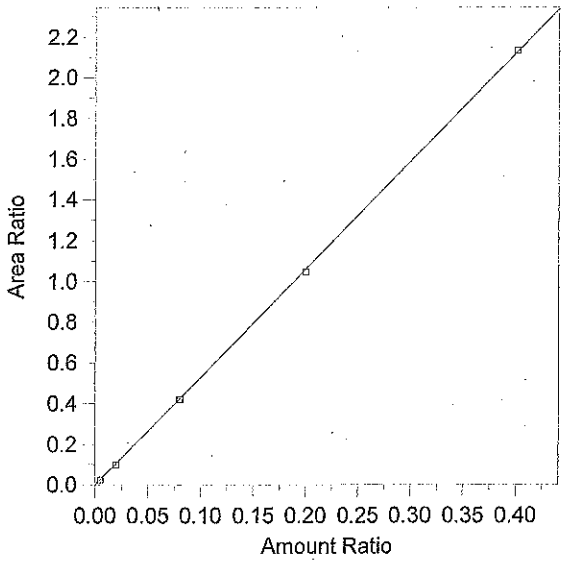
Creator:
Description:
Reason for change:

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: 2.656 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

$Y = 5.293211 X + 0$

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999073
Average error: 1.787%
Average CF: 5.206268
RSD: 2.144%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.0836)	(85146)	--	--	0.0836	85146	Manual	8/13/2014 9:33:12 AM
2	0.0049	5078.801	1036490	-1.296	0.0049	2.560064E-02	C:\Alcohol Data\VFL09112014\VFL09112014.0003.BND	9/11/2014 4:08:13 PM
3	0.0197	19611.33	995499	-5.216	0.0197	9.883676E-02	C:\Alcohol Data\VFL09112014\VFL09112014.0004.BND	9/11/2014 4:24:08 PM
4	0.0801	83250.6	1039333	-0.782	0.0801	0.42067	C:\Alcohol Data\VFL09112014\VFL09112014.0005.BND	9/11/2014 4:39:45 PM
5	0.1998	216724.3	1084706	-1.280	0.1998	1.044049	C:\Alcohol Data\VFL09112014\VFL09112014.0006.BND	9/11/2014 4:55:40 PM
6	0.4011	420815.1	1049153	0.362	0.4011	2.130783	C:\Alcohol Data\VFL09112014\VFL09112014.0007.BND	9/11/2014 5:10:14 PM

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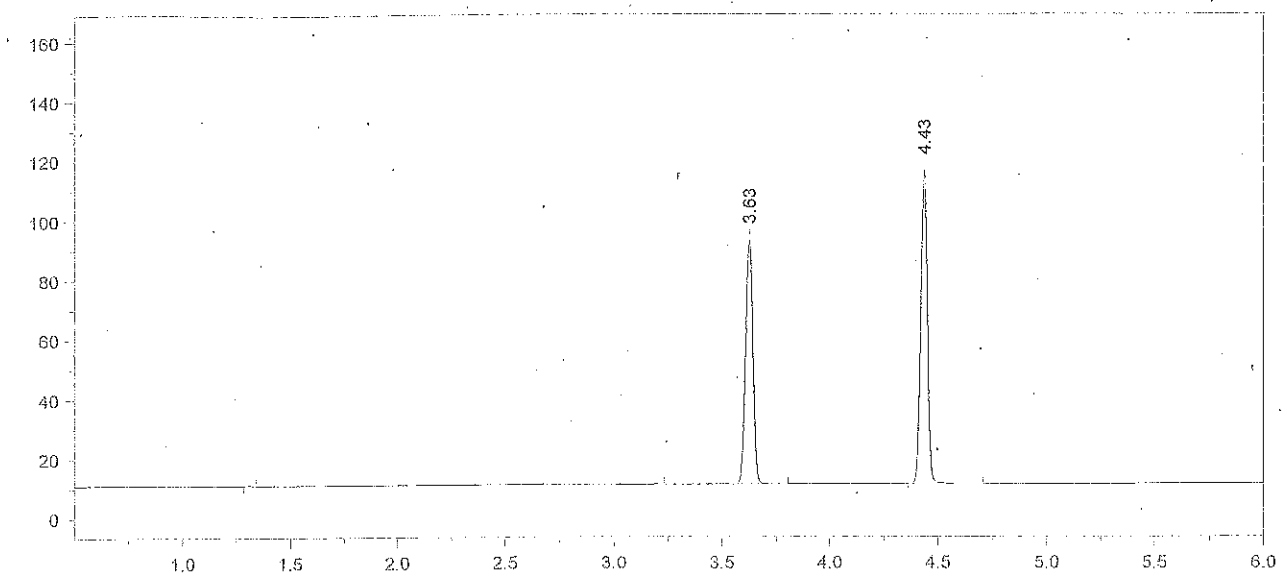
File Name = C:\Alcohol Data\VFL09112014\VFL09112014.SEQ
Version = 1
File Date = 9/11/2014 3:00:32 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL09112014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL09112014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL09112014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL09112014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL09112014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL09112014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL09112014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL09112014.0008.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
9	VFL09112014.0009.raw	Blood Alc temp VFL.MET	WB	1.00	1.00
10	VFL09112014.0010.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
11	VFL09112014.0011.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
12	VFL09112014.0012.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
13	VFL09112014.0013.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
14	VFL09112014.0014.raw	Blood Alc temp VFL.MET	V14-1767 A1-1] casework	1.00	1.00
15	VFL09112014.0015.raw	Blood Alc temp VFL.MET	V14-1767 A1-1] samples	1.00	1.00
16	VFL09112014.0016.raw	Blood Alc temp VFL.MET	CCS not included.	1.00	1.00
17	VFL09112014.0017.raw	Blood Alc temp VFL.MET	CCS RZM 9/12/14	1.00	1.00
18	VFL09112014.0018.raw	simsoln.met	0.1 RLM	1.00	1.00
19	VFL09112014.0019.raw	simsoln.met	0.1 RLM	1.00	1.00
20	VFL09112014.0020.raw	simsoln.met	0.1 RLM	1.00	1.00
21	VFL09112014.0021.raw	simsoln.met	0.1 RLM	1.00	1.00
22	VFL09112014.0022.raw	simsoln.met	0.1 RLM	1.00	1.00
23	VFL09112014.0023.raw	simsoln.met	0.1 RLM	1.00	1.00
24	VFL09112014.0024.raw	simsoln.met	0.1 RLM	1.00	1.00
25	VFL09112014.0025.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
26	VFL09112014.0026.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
27	VFL09112014.0027.raw	simsoln.met	0.1 ALB	1.00	1.00
28	VFL09112014.0028.raw	simsoln.met	0.1 ALB	1.00	1.00
29	VFL09112014.0029.raw	simsoln.met	0.1 ALB	1.00	1.00
30	VFL09112014.0030.raw	simsoln.met	0.1 ALB	1.00	1.00
31	VFL09112014.0031.raw	simsoln.met	0.1 ALB	1.00	1.00
32	VFL09112014.0032.raw	simsoln.met	0.1 ALB	1.00	1.00
33	VFL09112014.0033.raw	simsoln.met	0.1 ALB	1.00	1.00
34	VFL09112014.0034.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
35	VFL09112014.0035.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

Lot #s
Aqueous Blank: BL-08112014
Timing Mix: TMX-08112014
Internal Standard: IS-07082014
Ethanol Standard: ES-06162014
Aqueous QC: Cerilliant FN021111-03
WB Control: Cliniqa 1212090
RZM 9/16/14



Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 7:51:50 AM
Bound File Name = VFL09112014.0001.RAW
Sample Name = Blank
Date Taken = 9/11/2014 3:37:05 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	3.63	t-Butanol	190133	0.9663
4	4.43	n-Propanol	223768	1.0000

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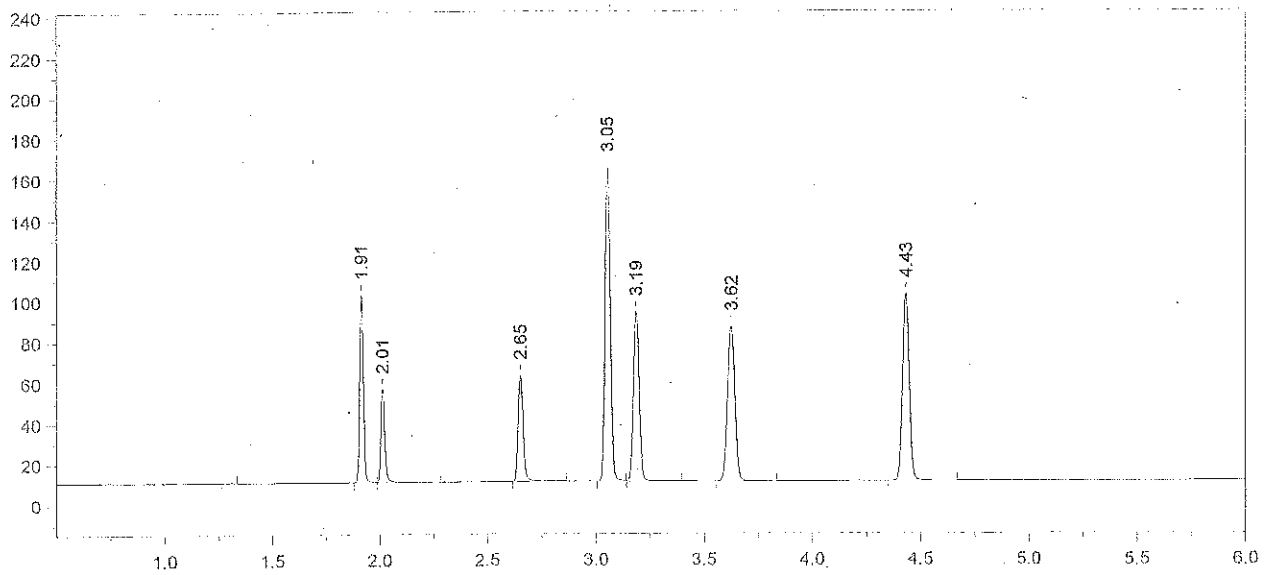

Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 7:52:02 AM
Bound File Name = VFL09112014.0002.RAW
Sample Name = TMX
Date Taken = 9/11/2014 3:54:17 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.91	Acetaldehyde	107006	0.0695
3	2.01	Methanol	58580	0.1232
4	2.65	Ethanol	81448	0.0790
5	3.05	Acetone	263681	0.0657
6	3.19	Isopropanol	156501	0.0848
7	3.62	t-Butanol	176117	1.0282
8	4.43	n-Propanol	194789	1.0000

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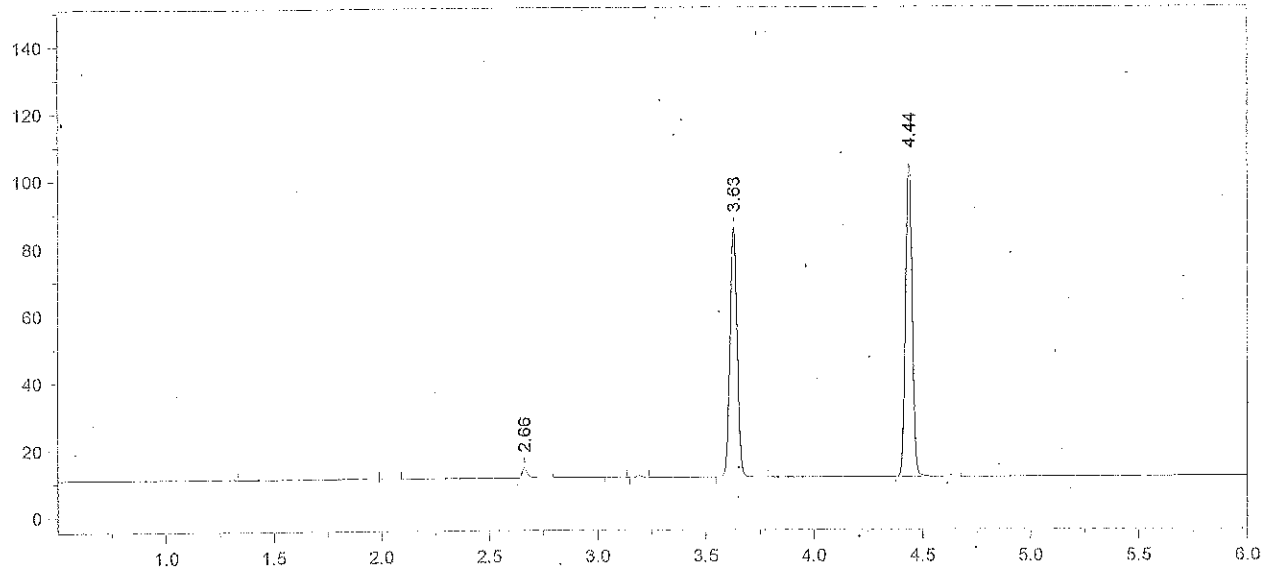
5



Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 7:52:12 AM
Bound File Name = VFL09112014.0003.RAW
Sample Name = STD A
Date Taken = 9/11/2014 4:08:07 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	2.66	Ethanol	05079	0.0048 *
7	3.63	t-Butanol	172397	0.9882
8	4.44	n-Propanol	198386	1.0000

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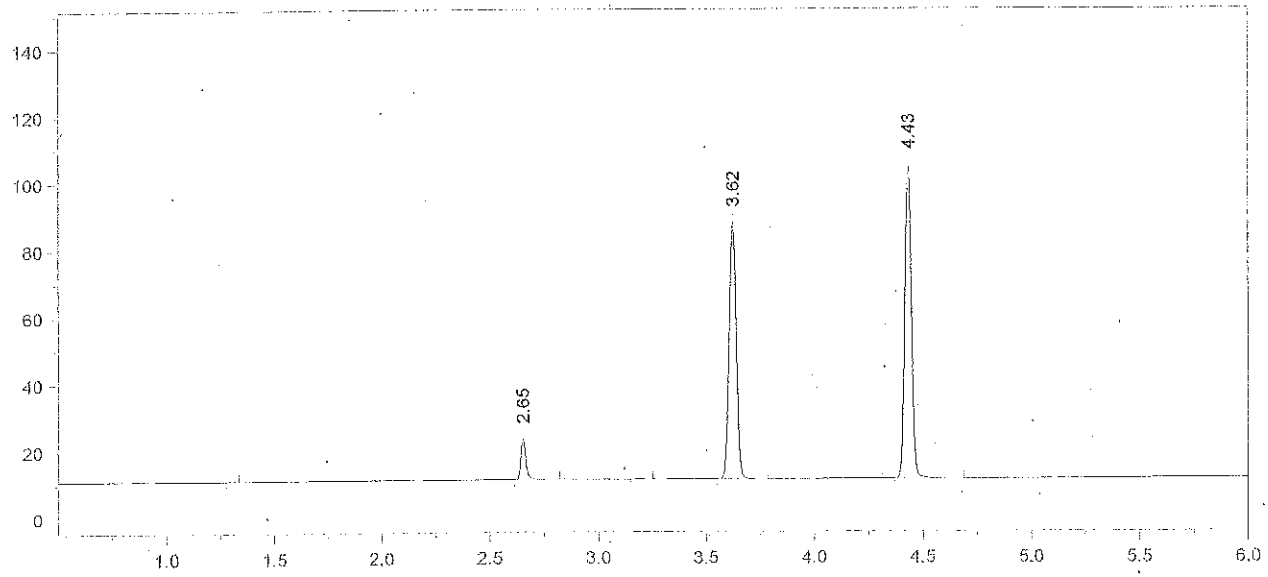


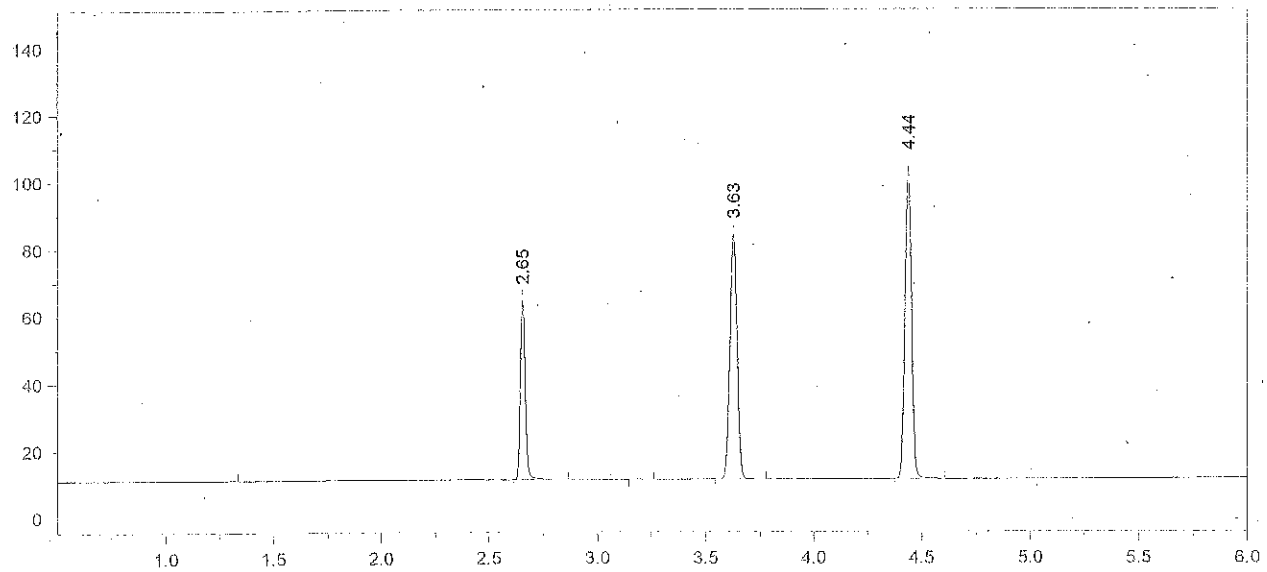
Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 7:52:22 AM
Bound File Name = VFL09112014.0004.RAW
Sample Name = STD B
Date Taken = 9/11/2014 4:24:01 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	19611	0.0187
4	3.62	t-Butanol	177910	1.0197
5	4.43	n-Propanol	198421	1.0000

14-12-100

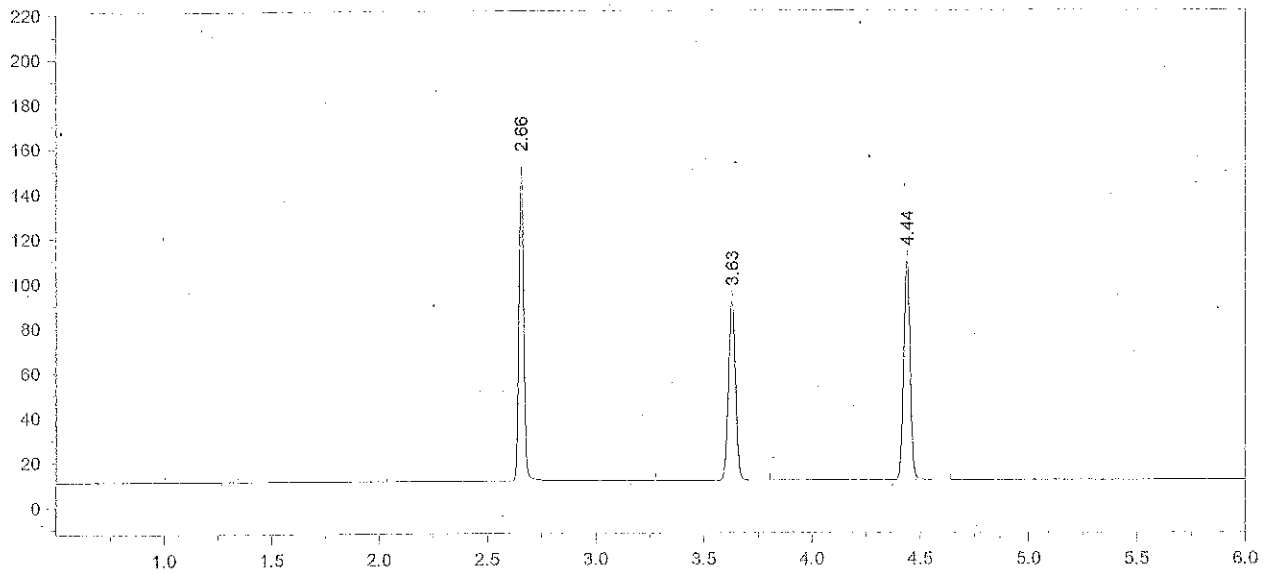
7



Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 7:52:31 AM
Bound File Name = VFL09112014.0005.RAW
Sample Name = STD C
Date Taken = 9/11/2014 4:39:34 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83251	0.0795
4	3.63	t-Butanol	169650	0.9749
5	4.44	n-Propanol	197900	1.0000



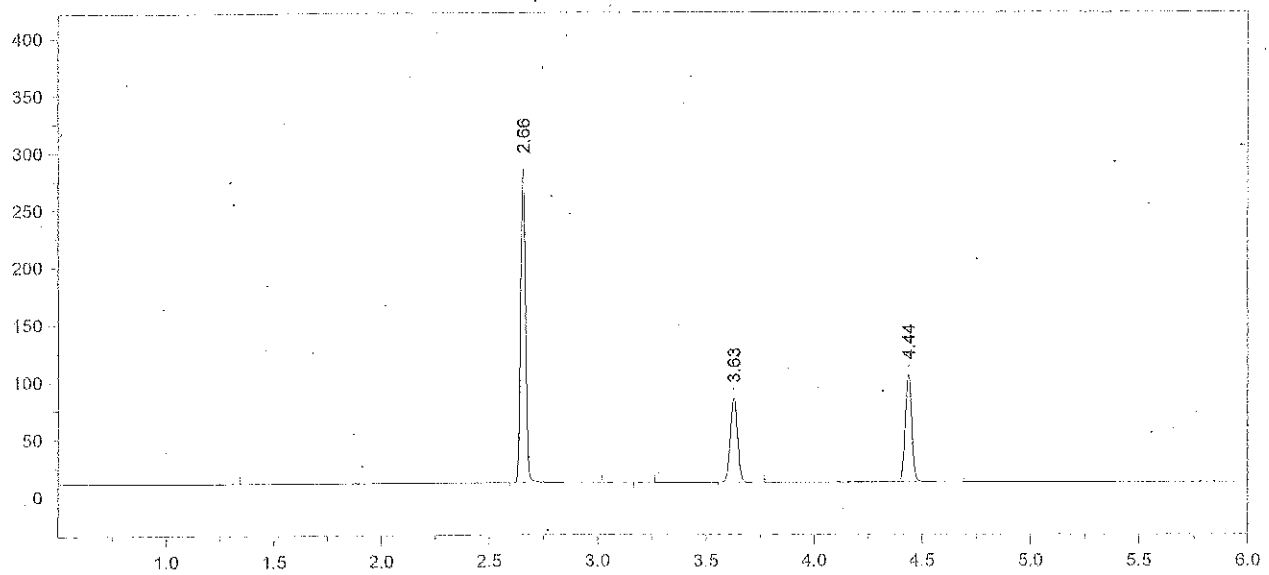
Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 7:52:42 AM
Bound File Name = VFL09112014.0006.RAW
Sample Name = STD D
Date Taken = 9/11/2014 4:55:32 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	216724	0.1972 *
4	3.63	t-Butanol	185109	1.0141
5	4.44	n-Propanol	207581	1.0000

14-12-100

9



Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 7:52:51 AM
Bound File Name = VFL09112014.0007.RAW
Sample Name = STD E
Date Taken = 9/11/2014 5:10:03 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	420815	0.4026 *
4	3.63	t-Butanol	169301	0.9749
5	4.44	n-Propanol	197493	1.0000

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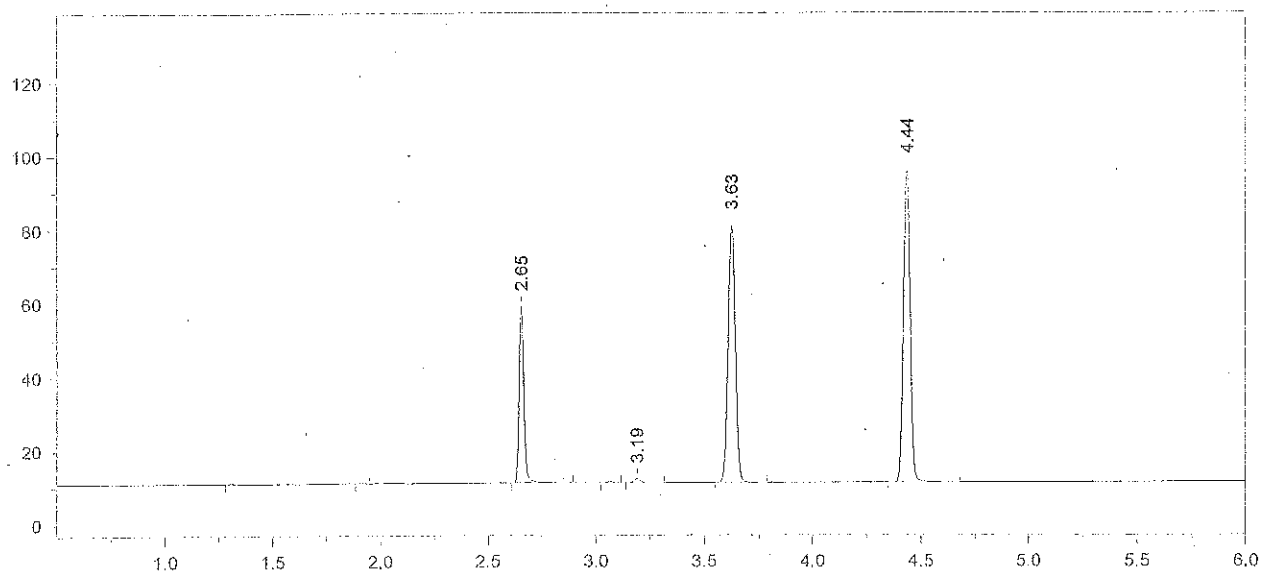

Format File Name = AlcoholVFL.FMT

Today's Date = 9/11/2014
Today's Time = 5:27:04 PM
Bound File Name = VFL09112014.0008.RAW
Sample Name = WB
Date Taken = 9/11/2014 5:26:56 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	74736	0.0780
5	3.19	Isopropanol	02175	<0.004
6	3.63	t-Butanol	162179	1.0188
7	4.44	n-Propanol	181021	1.0000

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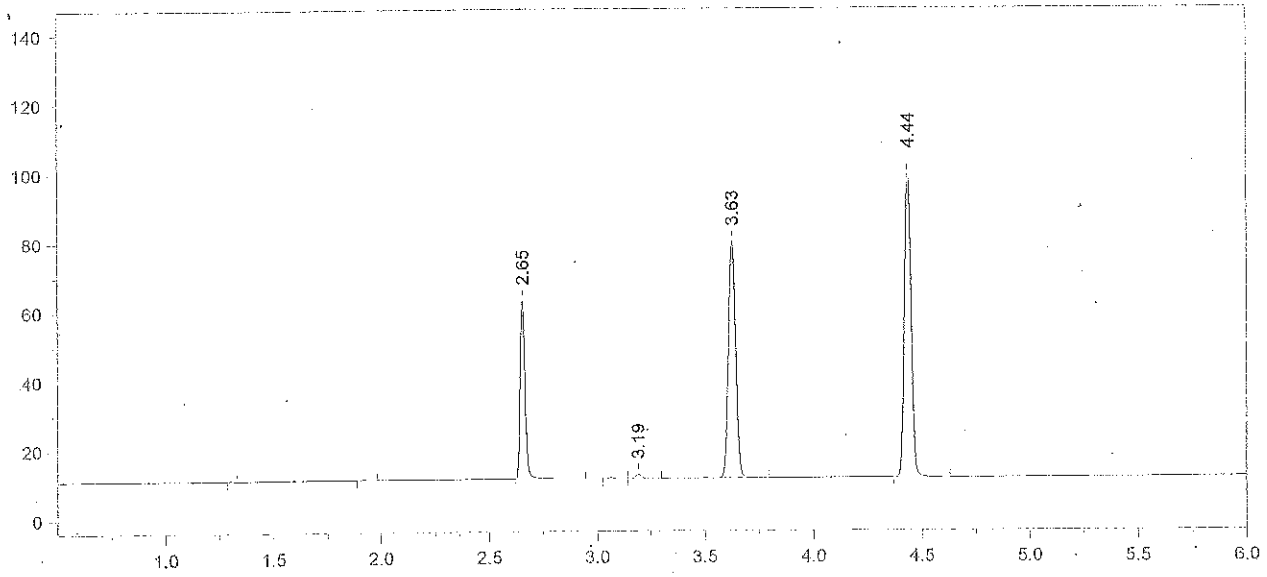
11



Format File Name = AlcoholVFL.FMT

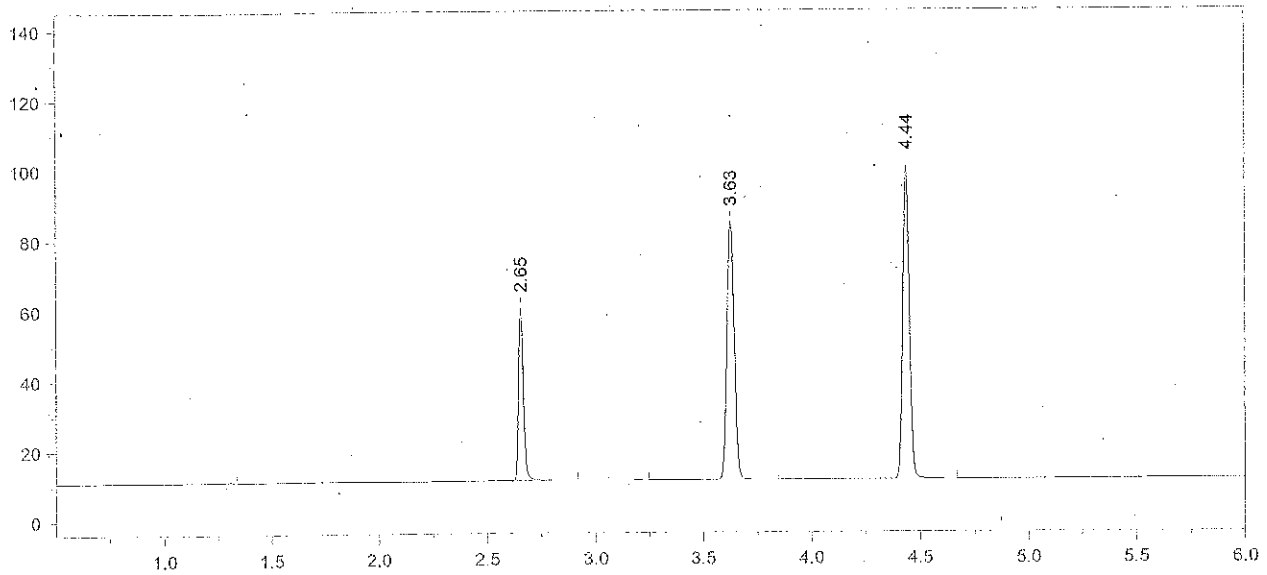
Today's Date = 9/11/2014
Today's Time = 5:41:03 PM
Bound File Name = VFL09112014.0009.RAW
Sample Name = WB
Date Taken = 9/11/2014 5:40:55 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.65	Ethanol	81026	0.0796 *
5	3.19	Isopropanol	02225	<0.004
6	3.63	t-Butanol	159242	0.9420
7	4.44	n-Propanol	192249	1.0000

Avg #8 + #9 = 0.079
Target value: 0.080
% recovery = 99%
KEM 9/12/14

14-12-100 12 KEM

Chrom Perfect Chromatogram Report



Format File Name = AlcoholVFL.FMT

Today's Date = 9/11/2014
Today's Time = 5:58:27 PM
Bound File Name = VFL09112014.0010.RAW
Sample Name = AQ QC
Date Taken = 9/11/2014 5:58:21 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version =.7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	77348	0.0774 *
4	3.63	t-Butanol	170915	1.0299
5	4.44	n-Propanol	188717	1.0000

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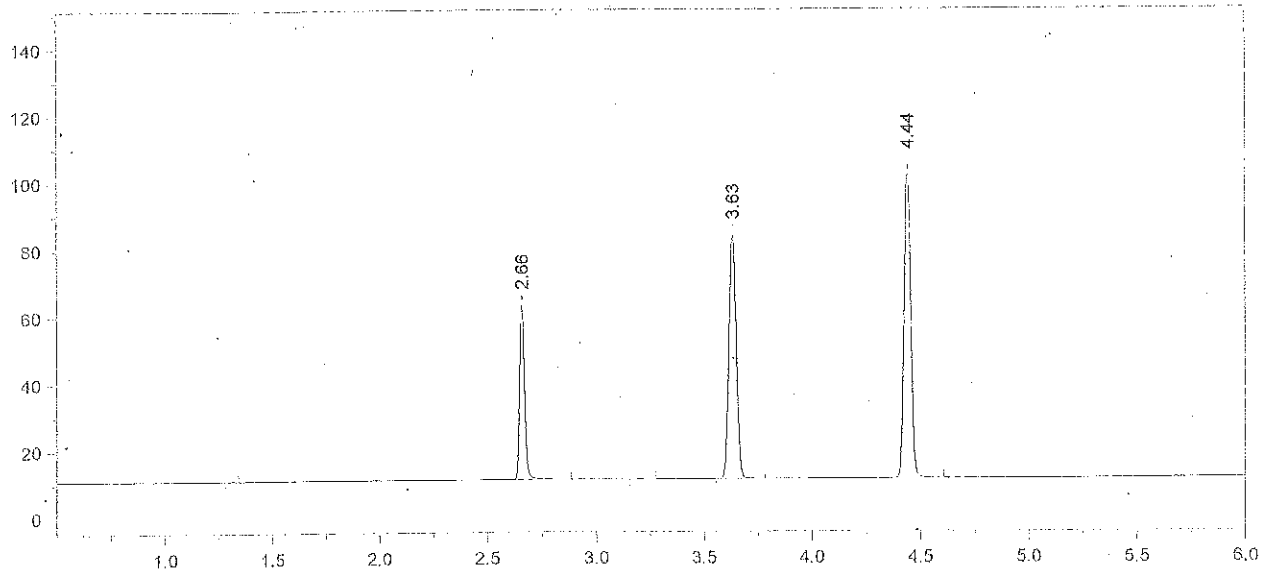
13



Format File Name = AlcoholVFL.FMT

Today's Date = 9/11/2014
Today's Time = 6:12:12 PM
Bound File Name = VFL09112014.0011.RAW
Sample Name = AQ QC
Date Taken = 9/11/2014 6:12:01 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	81146	0.0775 *
4	3.63	t-Butanol	168791	0.9708
5	4.44	n-Propanol	197730	1.0000

Avg #10 + #11 = 0.077
Target value: 0.080
% recovery = 96%
TRM 9/12/14

14-12-100

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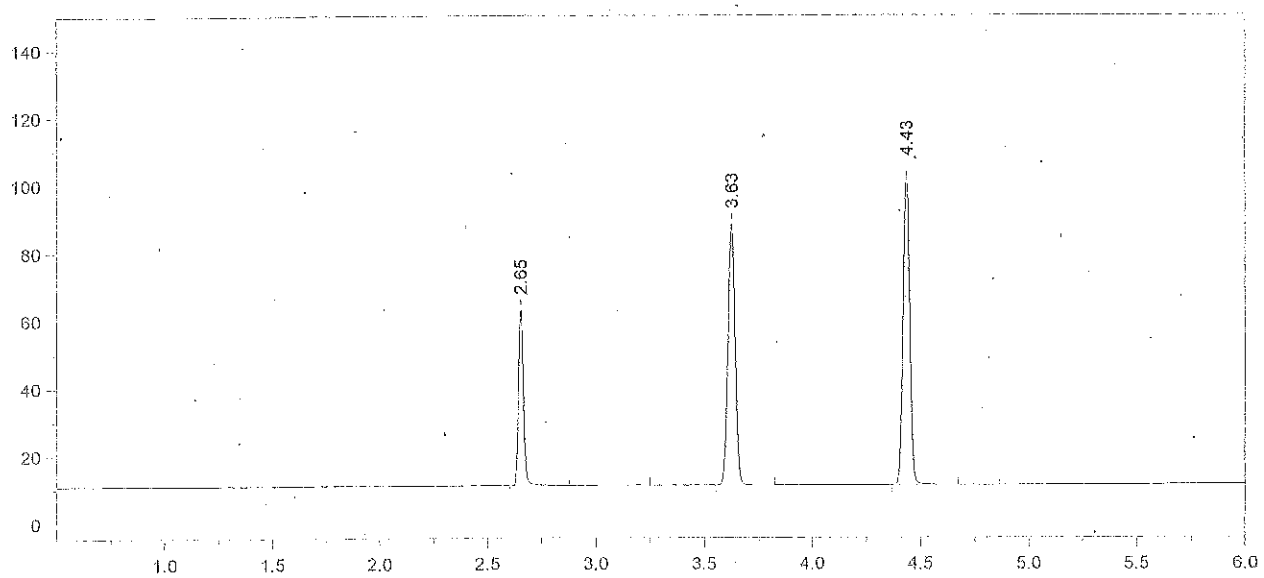
TRM

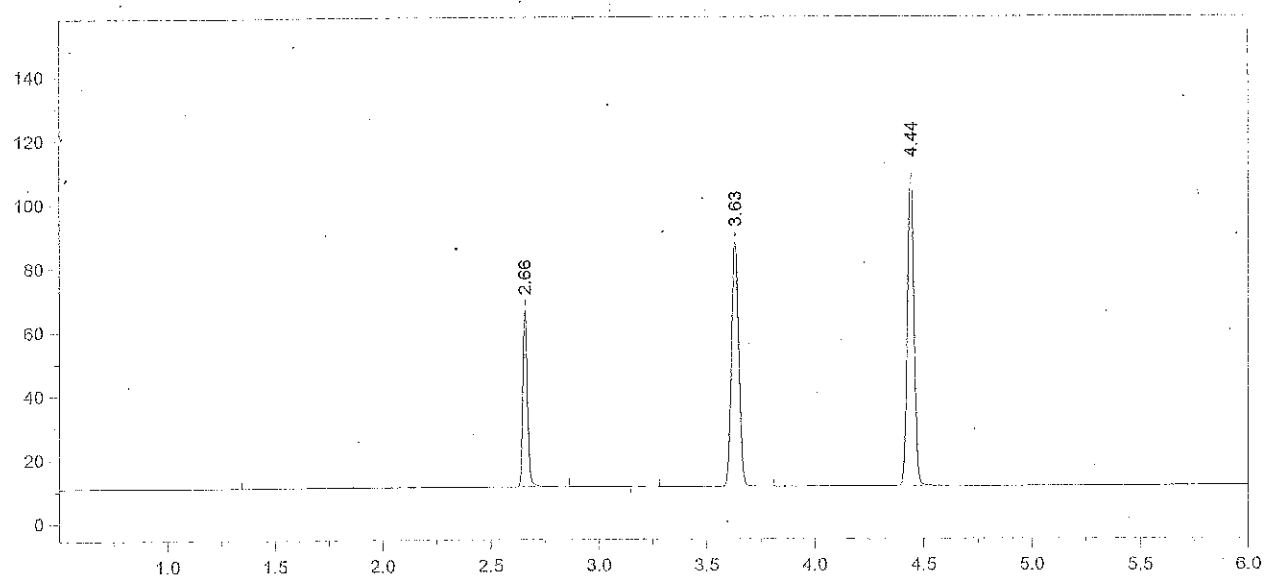


Format File Name = AlcoholVFL.FMT

Today's Date = 9/11/2014
Today's Time = 6:29:53 PM
Bound File Name = VFL09112014.0012.RAW
Sample Name = CCS
Date Taken = 9/11/2014 6:29:45 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80985	0.0774
4	3.63	t-Butanol	179056	1.0307
5	4.43	n-Propanol	197557	1.0000

Chrom Perfect Chromatogram Report



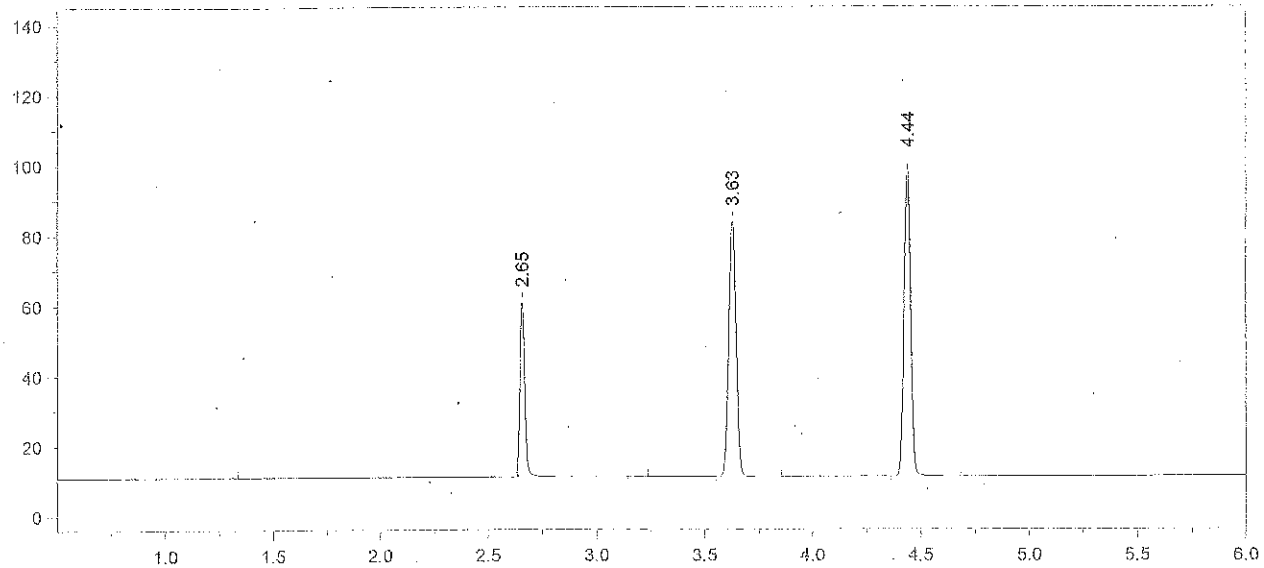
Format File Name = AlcoholVFL.FMT

Today's Date = 9/11/2014
Today's Time = 6:43:10 PM
Bound File Name = VFL09112014.0013.RAW
Sample Name = CCS
Date Taken = 9/11/2014 6:43:03 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	85617	0.0779 *
4	3.63	t-Butanol	177229	0.9712
5	4.44	n-Propanol	207524	1.0000

Avg #12 + #13 = 0.077
Rm 9/12/14

14-12-100 16 Rm



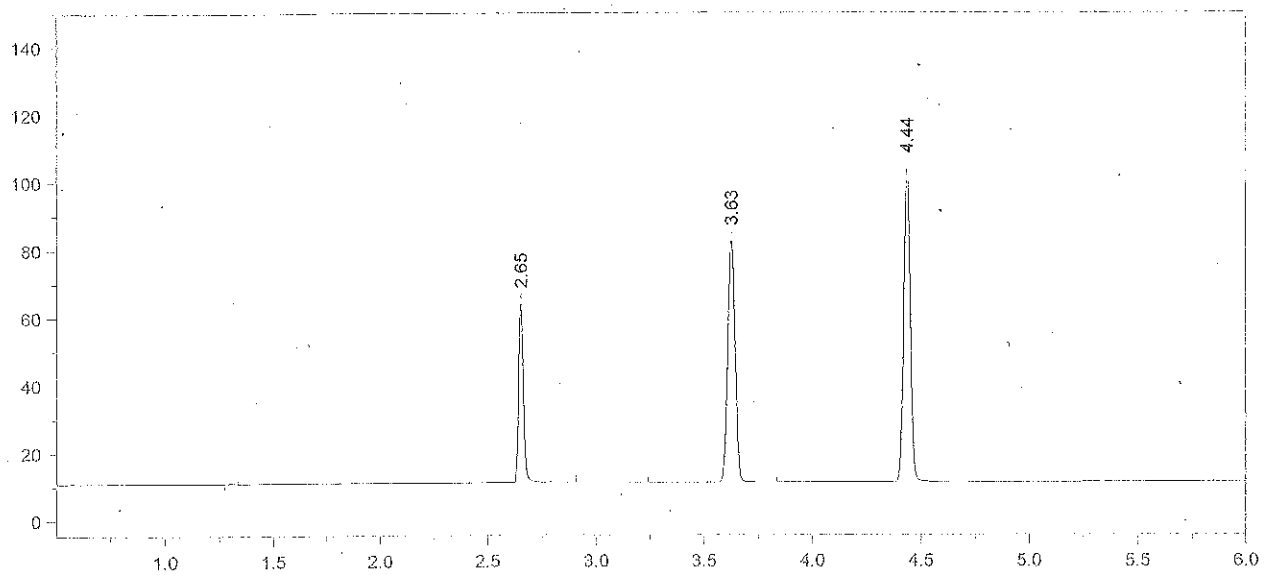
Format File Name = AlcoholVFL.FMT

Today's Date = 9/11/2014
Today's Time = 7:31:09 PM
Bound File Name = VFL09112014.0016.RAW
Sample Name = CCS
Date Taken = 9/11/2014 7:31:01 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	78093	0.0778 *
4	3.63	t-Butanol	168790	1.0119
5	4.44	n-Propanol	189694	1.0000

14-12-100

17

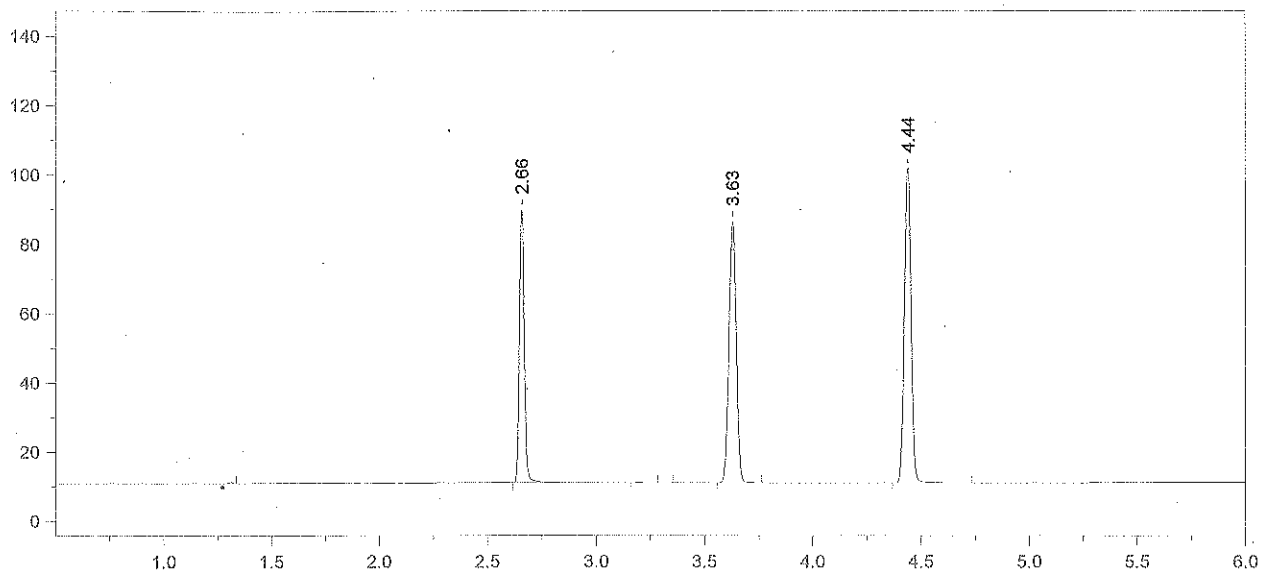


Format File Name = AlcoholVFL.FMT

Today's Date = 9/11/2014
Today's Time = 7:45:09 PM
Bound File Name = VFL09112014.0017.RAW
Sample Name = CCS
Date Taken = 9/11/2014 7:44:57 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82713	0.0794 *
4	3.63	t-Butanol	165377	0.9556
5	4.44	n-Propanol	196817	1.0000

Avg # 16 + #17 = 0.078
KEM 9/12/14

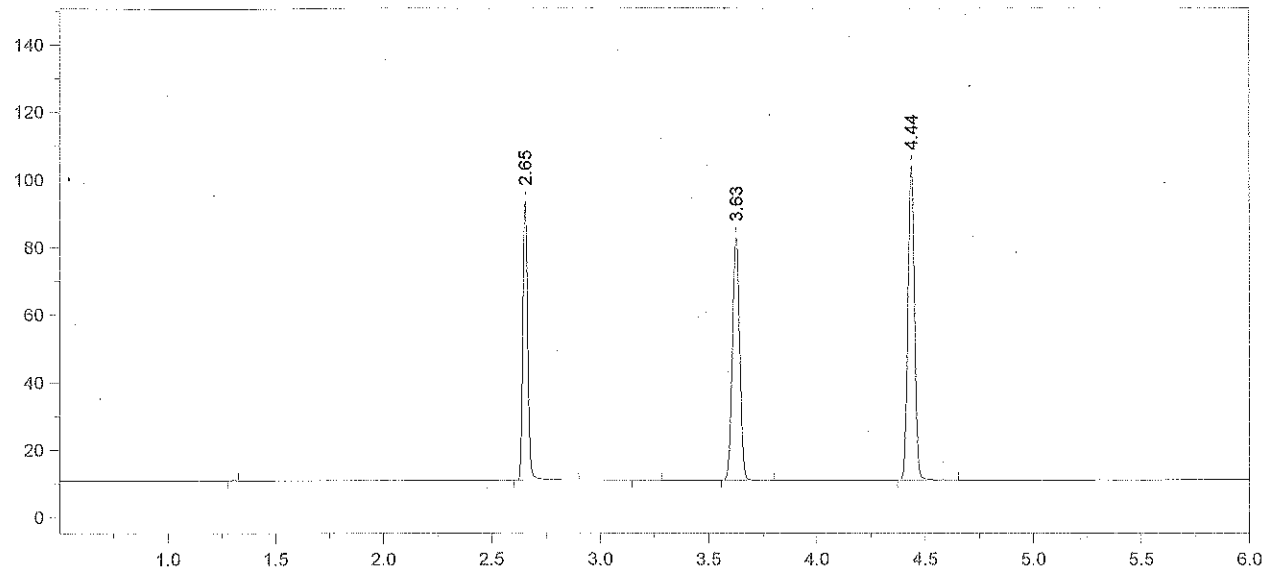


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 8:02:38 PM
Bound File Name = VFL09112014.0018.RAW
Sample Name = 0.1 RLM
Date Taken = 9/11/2014 8:02:25 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	121895	0.1189	0.0970
4	3.63	t-Butanol	174332	1.0234	0.8353
5	4.44	n-Propanol	193720	1.0000	0.8162

14-12-100 19

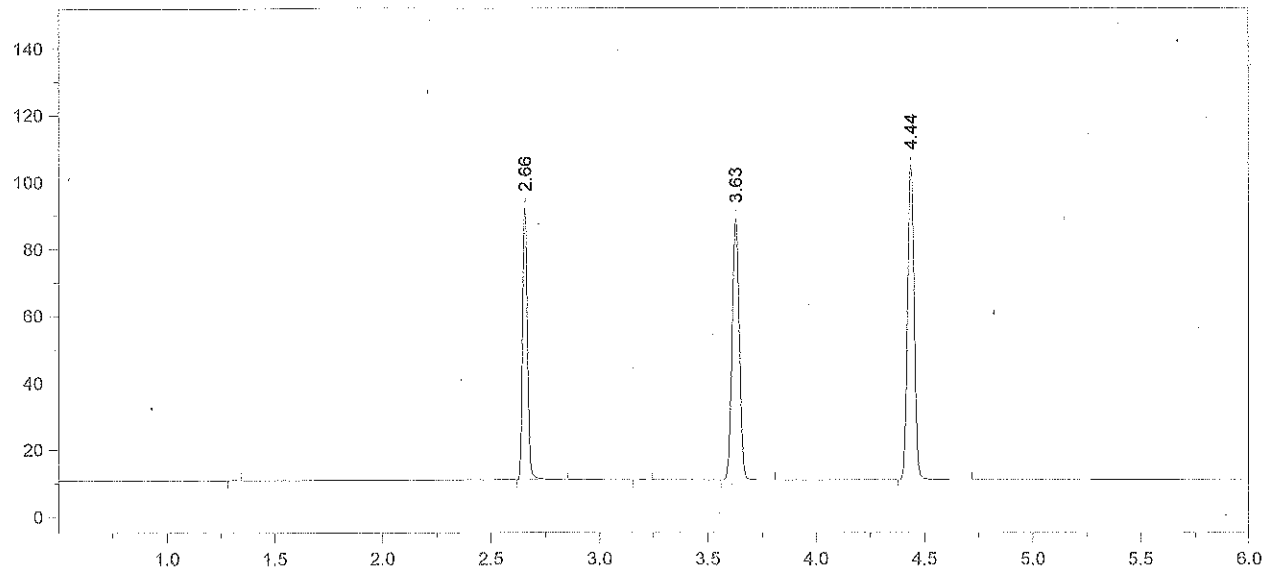


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 8:16:37 PM
Bound File Name = VFL09112014.0019.RAW
Sample Name = 0.1 RLM
Date Taken = 9/11/2014 8:16:29 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	127661	0.1221	0.0997
4	3.63	t-Butanol	166773	0.9602	0.7837
5	4.44	n-Propanol	197520	1.0000	0.8162

14-12-100 20

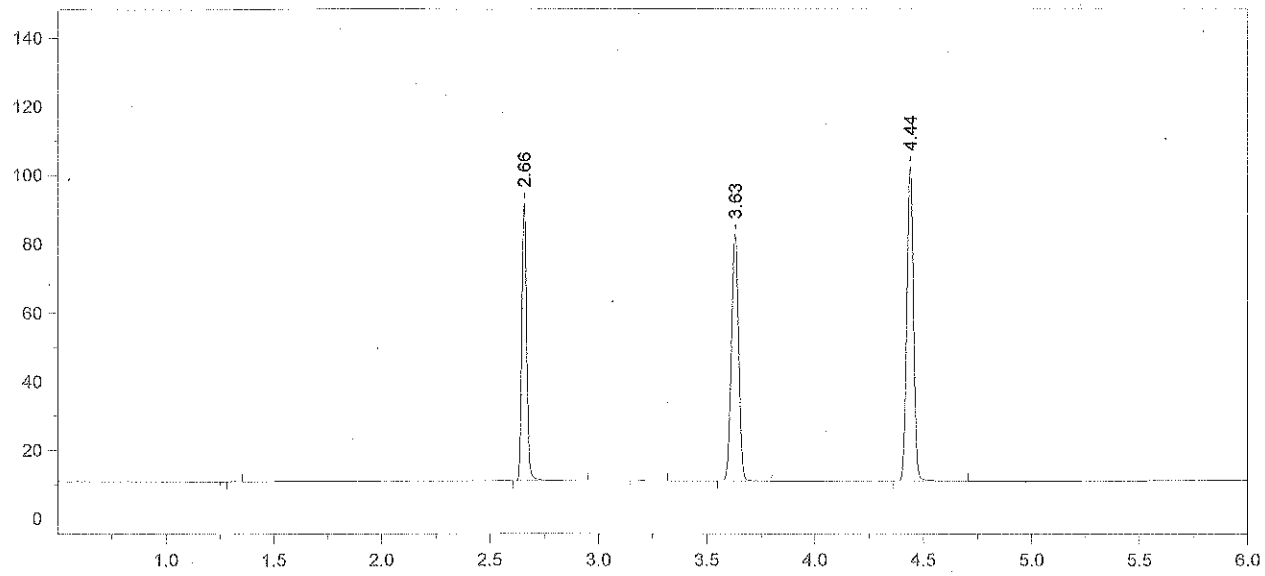


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 8:33:54 PM
Bound File Name = VFL09112014.0020.RAW
Sample Name = 0.1 RLM
Date Taken = 9/11/2014 8:33:47 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	125717	0.1185	0.0967
4	3.63	t-Butanol	180381	1.0236	0.8354
5	4.44	n-Propanol	200413	1.0000	0.8162

14-12-100 21

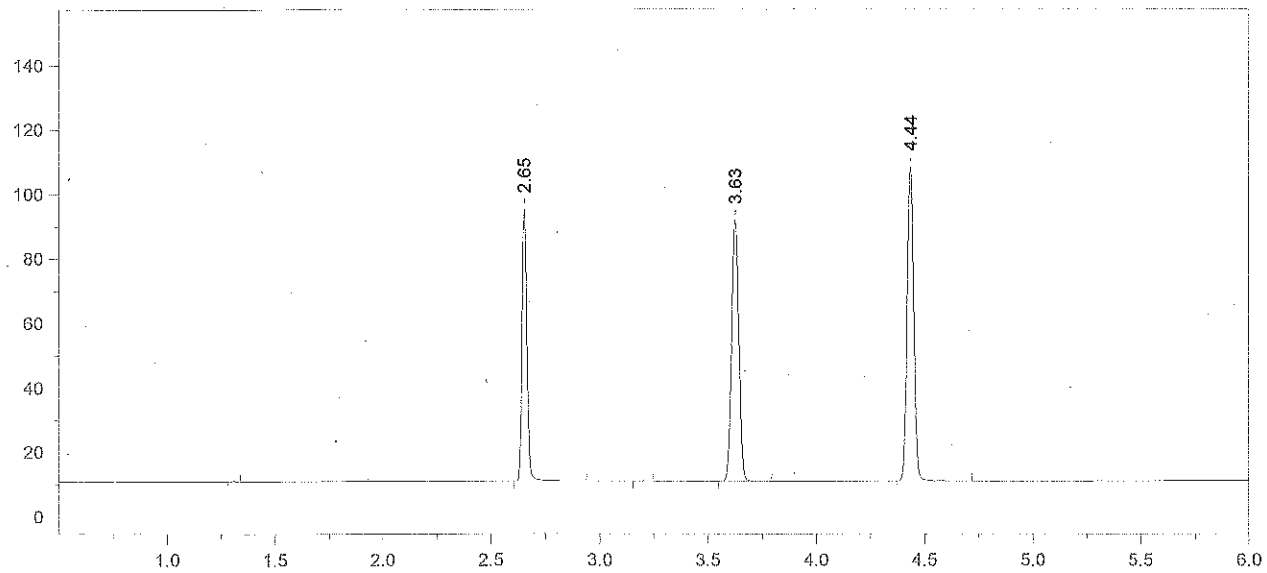


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 8:47:42 PM
Bound File Name = VFL09112014.0021.RAW
Sample Name = 0.1 RLM
Date Taken = 9/11/2014 8:47:35 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	125383	0.1215	0.0991
4	3.63	t-Butanol	166044	0.9682	0.7902
5	4.44	n-Propanol	195037	1.0000	0.8162

14-12-100 22

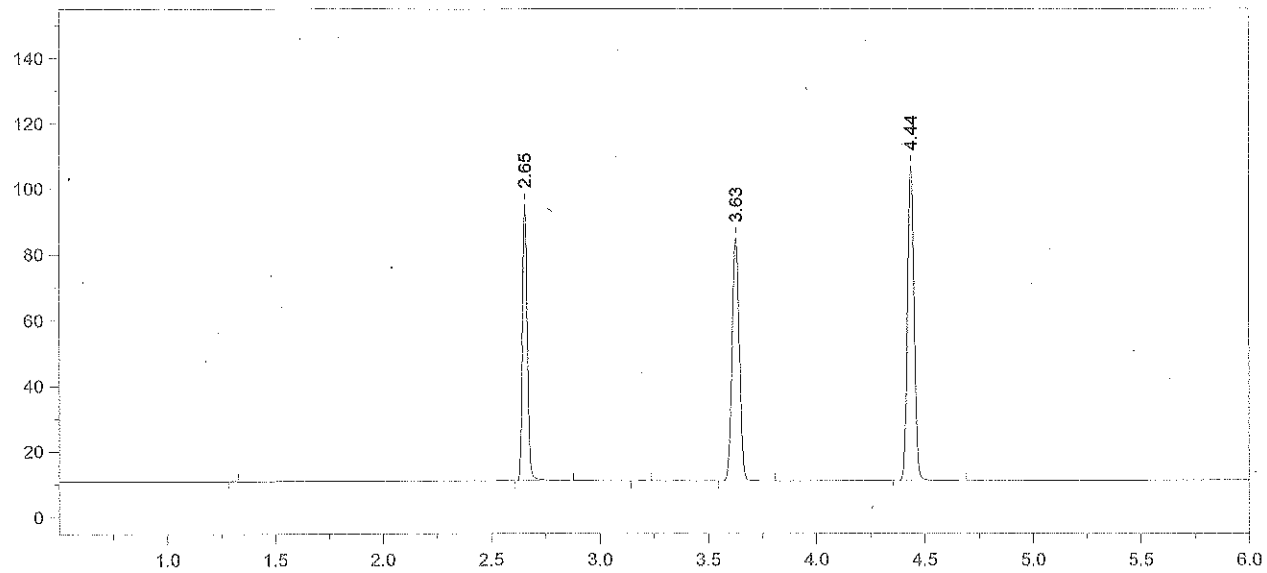


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 9:03:40 PM
Bound File Name = VFL09112014.0022.RAW
Sample Name = 0.1 RLM
Date Taken = 9/11/2014 9:03:31 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	131034	0.1187	0.0969
4	3.63	t-Butanol	187156	1.0210	0.8333
5	4.44	n-Propanol	208469	1.0000	0.8162

14-12-100 23

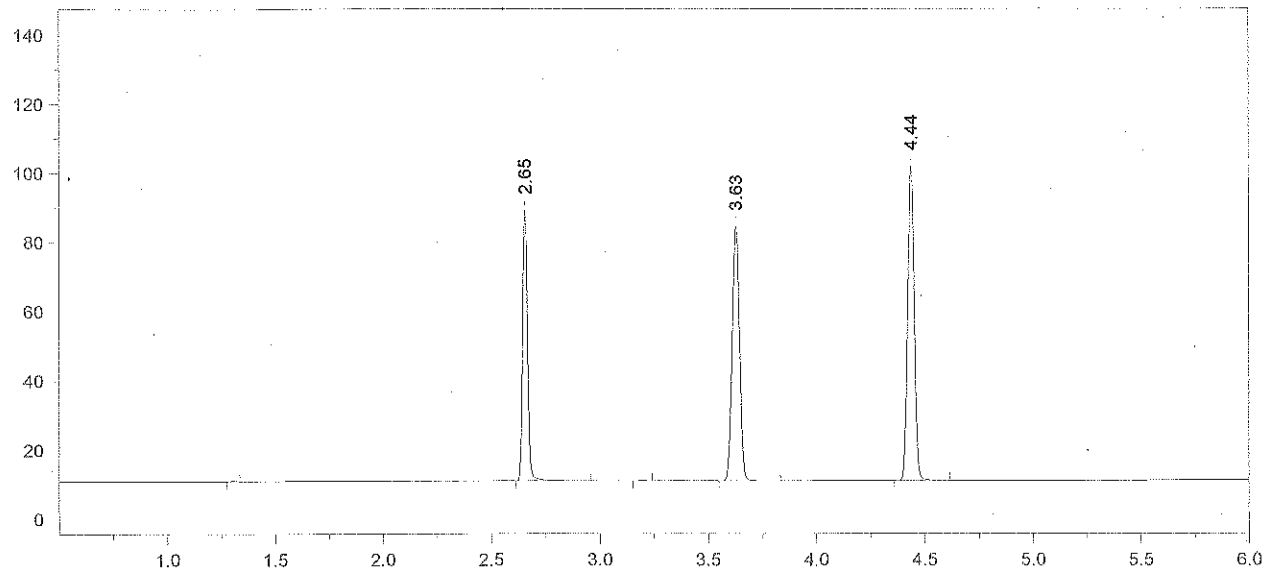


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 9:19:16 PM
Bound File Name = VFL09112014.0023.RAW
Sample Name = 0.1 RLM
Date Taken = 9/11/2014 9:19:05 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130467	0.1214	0.0991
4	3.63	t-Butanol	171863	0.9624	0.7855
5	4.44	n-Propanol	203086	1.0000	0.8162

14-12-100 24

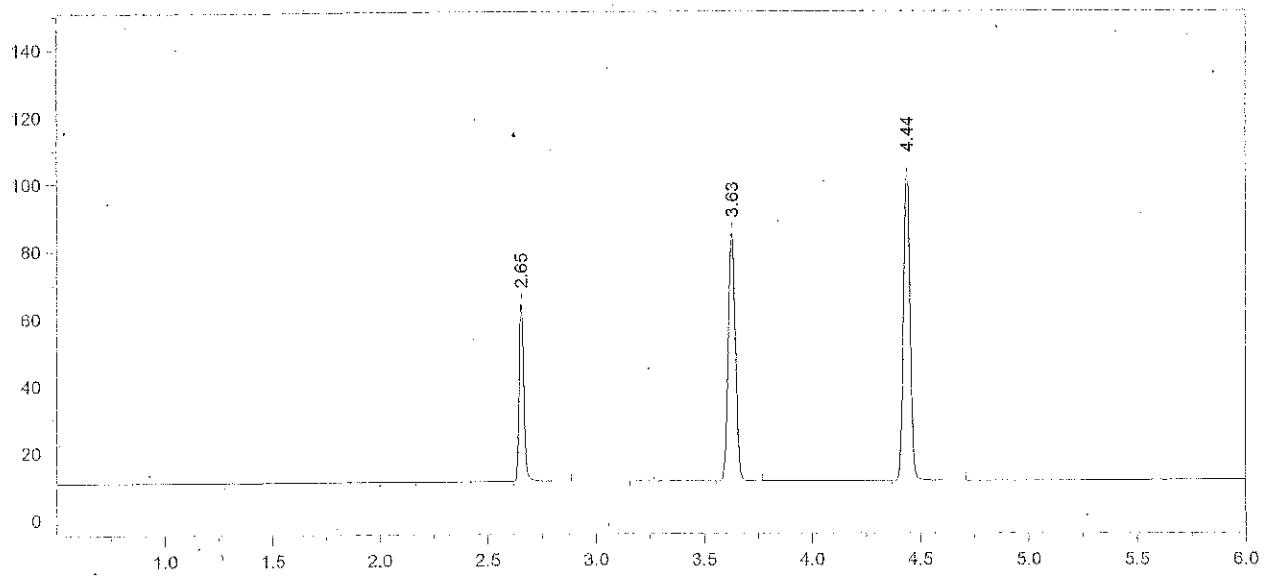


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 9:35:14 PM
Bound File Name = VFL09112014.0024.RAW
Sample Name = 0.1 RLM
Date Taken = 9/11/2014 9:35:03 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	121948	0.1200	0.0979
4	3.63	t-Butanol	171193	1.0138	0.8275
5	4.44	n-Propanol	192027	1.0000	0.8162

14-12-100 25 RLM



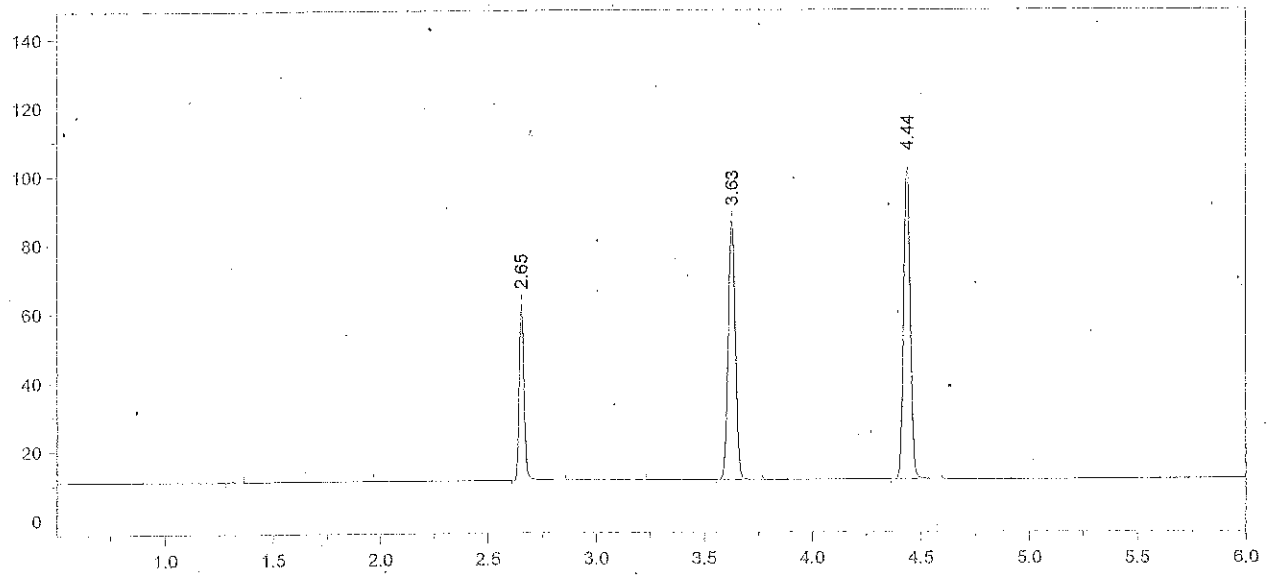
Format File Name = AlcoholVFL.FMT

Today's Date = 9/11/2014
Today's Time = 9:49:31 PM
Bound File Name = VFL09112014.0025.RAW
Sample Name = CCS
Date Taken = 9/11/2014 9:49:19 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83020	0.0788 *
4	3.63	t-Butanol	171086	0.9778
5	4.44	n-Propanol	198974	1.0000

14-12-100

26

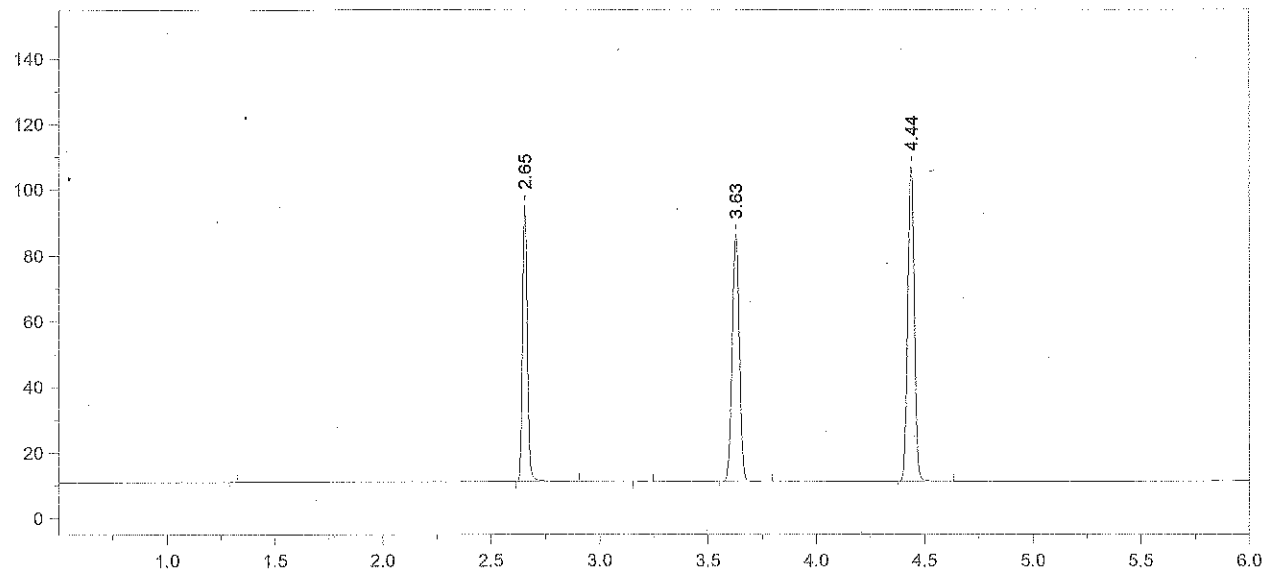


Format File Name = AlcoholVFL.FMT

Today's Date = 9/11/2014
Today's Time = 10:06:38 PM
Bound File Name = VFL09112014.0026.RAW
Sample Name = CCS
Date Taken = 9/11/2014 10:06:30 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79368	0.0775 *
4	3.63	t-Butanol	174546	1.0258
5	4.44	n-Propanol	193506	1.0000

Avg # 25 + #26 = 0.078
KEM 9/12/14

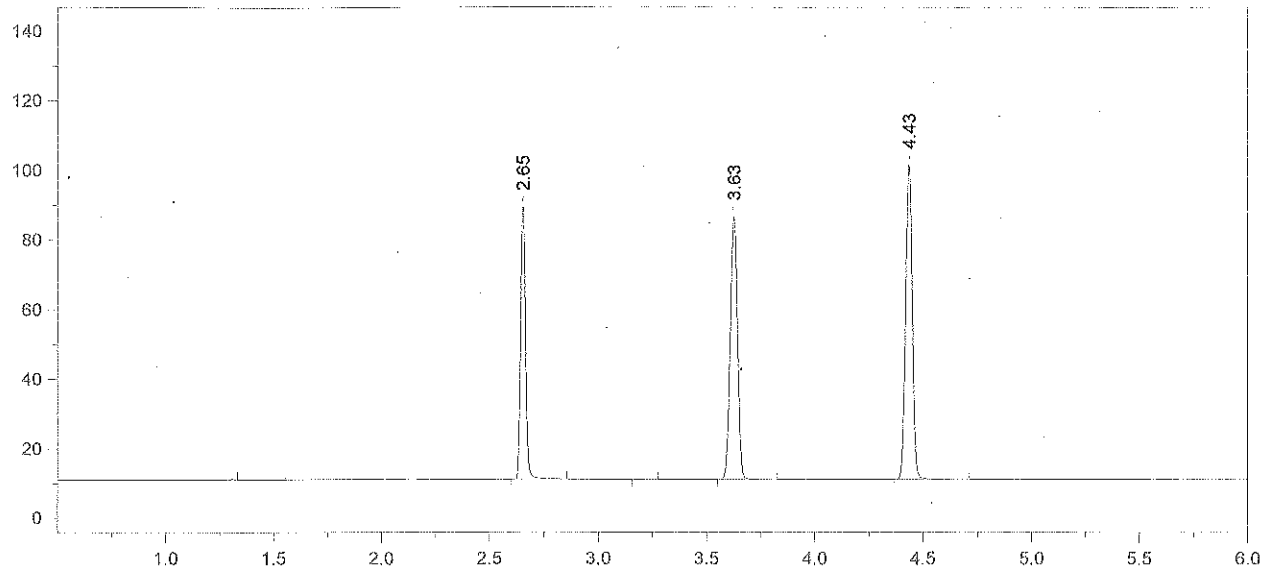


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 10:19:57 PM
Bound File Name = VFL09112014.0027.RAW
Sample Name = 0.1 ALB
Date Taken = 9/11/2014 10:19:49 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	130064	0.1207	0.0986
4	3.63	t-Butanol	174929	0.9776	0.7979
5	4.44	n-Propanol	203499	1.0000	0.8162

14-12-100 28

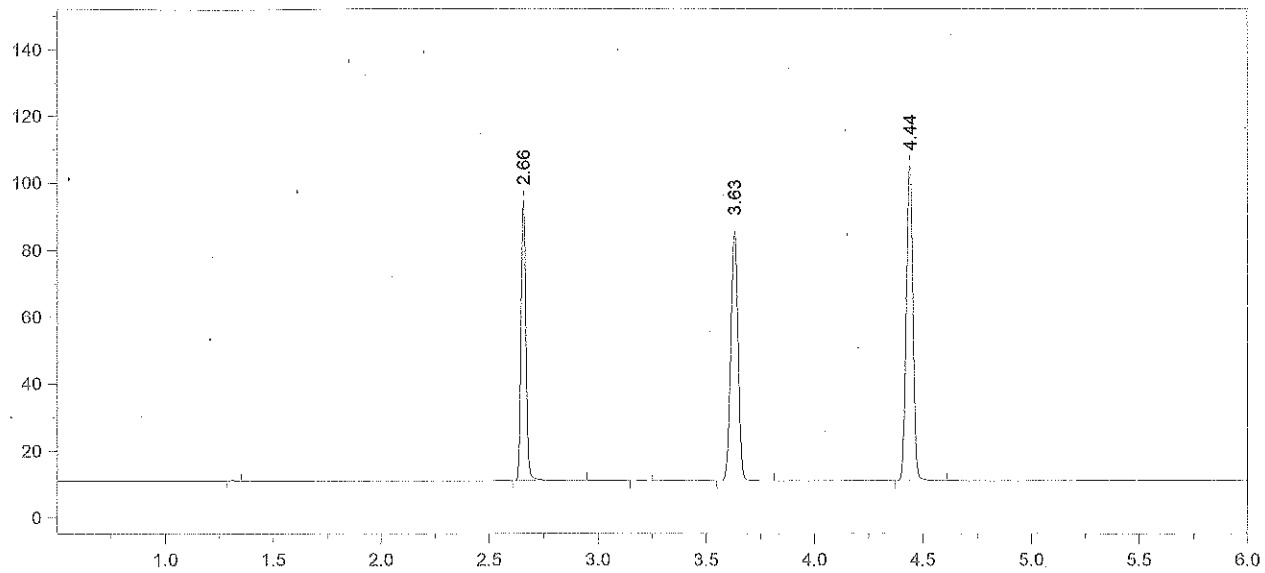


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 10:38:04 PM
Bound File Name = VFL09112014.0028.RAW
Sample Name = 0.1 ALB
Date Taken = 9/11/2014 10:37:55 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	121597	0.1194	0.0974
4	3.63	t-Butanol	175233	1.0355	0.8451
5	4.43	n-Propanol	192456	1.0000	0.8162

14-12-100 29

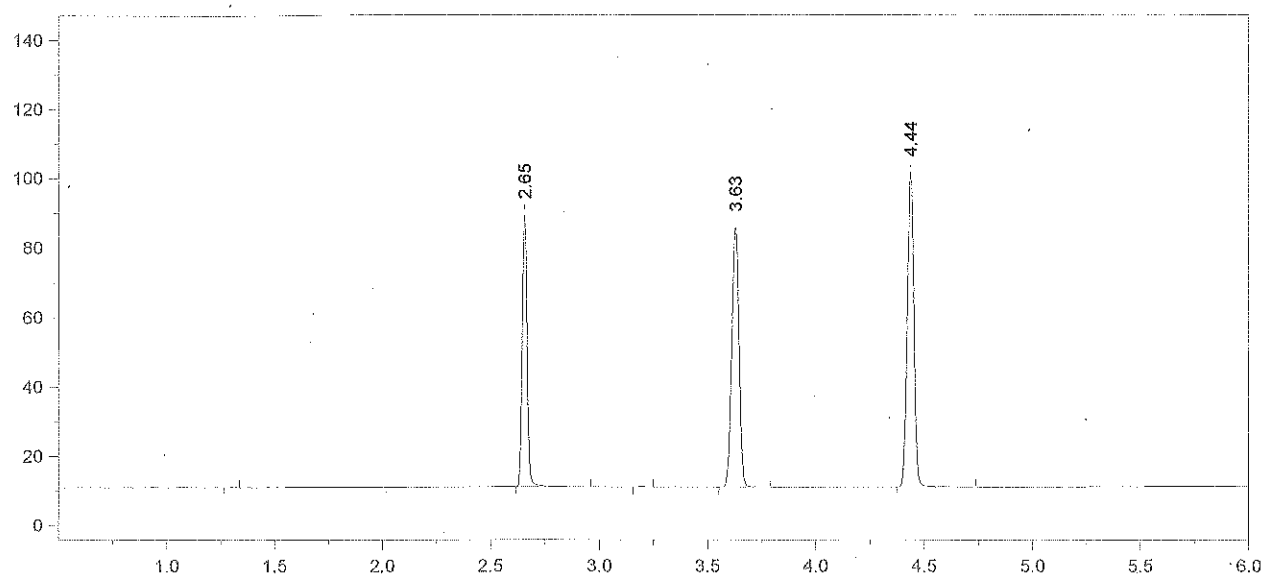


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 10:51:22 PM
Bound File Name = VFL09112014.0029.RAW
Sample Name = 0.1 ALB
Date Taken = 9/11/2014 10:51:12 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	129739	0.1225	0.1000
4	3.63	t-Butanol	172547	0.9810	0.8007
5	4.44	n-Propanol	200033	1.0000	0.8162

14-12-100 30

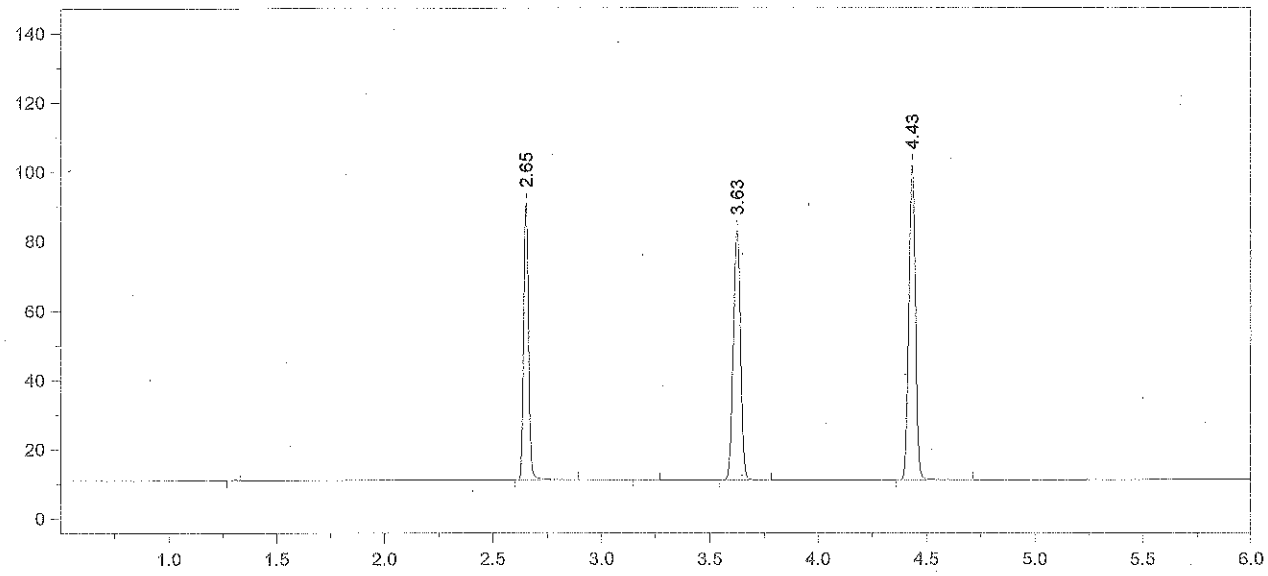


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 11:09:29 PM
Bound File Name = VFL09112014.0030.RAW
Sample Name = 0.1 ALB
Date Taken = 9/11/2014 11:09:21 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	121919	0.1197	0.0977
4	3.63	t-Butanol	174747	1.0325	0.8428
5	4.44	n-Propanol	192465	1.0000	0.8162

14-12-100 31

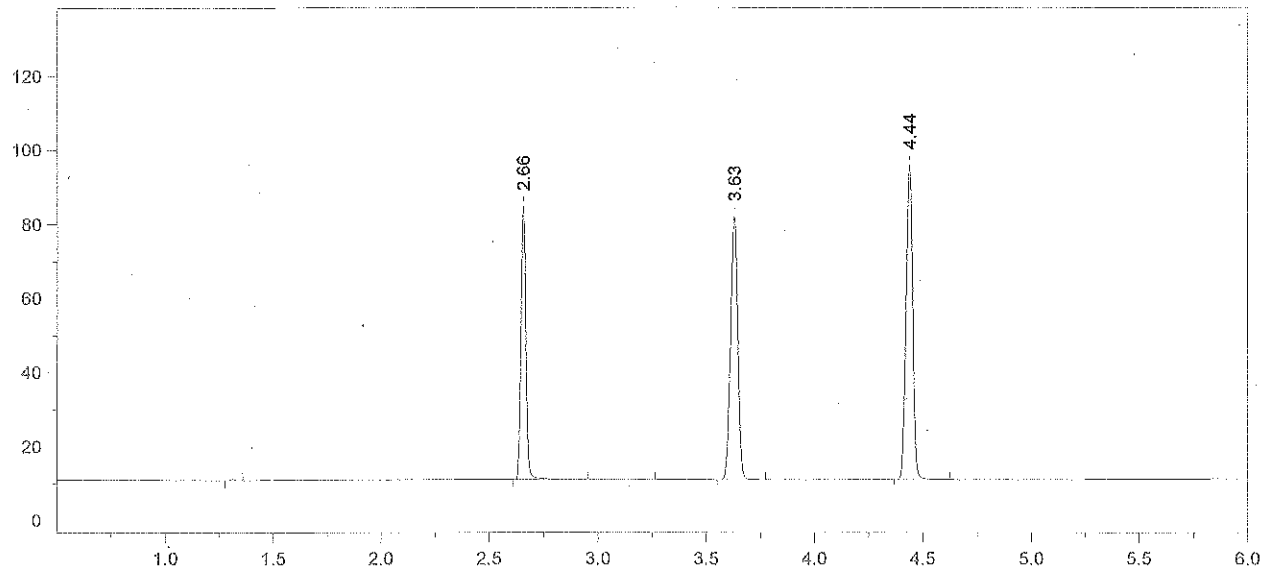


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 11:23:20 PM
Bound File Name = VFL09112014.0031.RAW
Sample Name = 0.1 ALB
Date Taken = 9/11/2014 11:23:15 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	124824	0.1223	0.0998
4	3.63	t-Butanol	166676	0.9828	0.8022
5	4.43	n-Propanol	192864	1.0000	0.8162

14-12-100 32

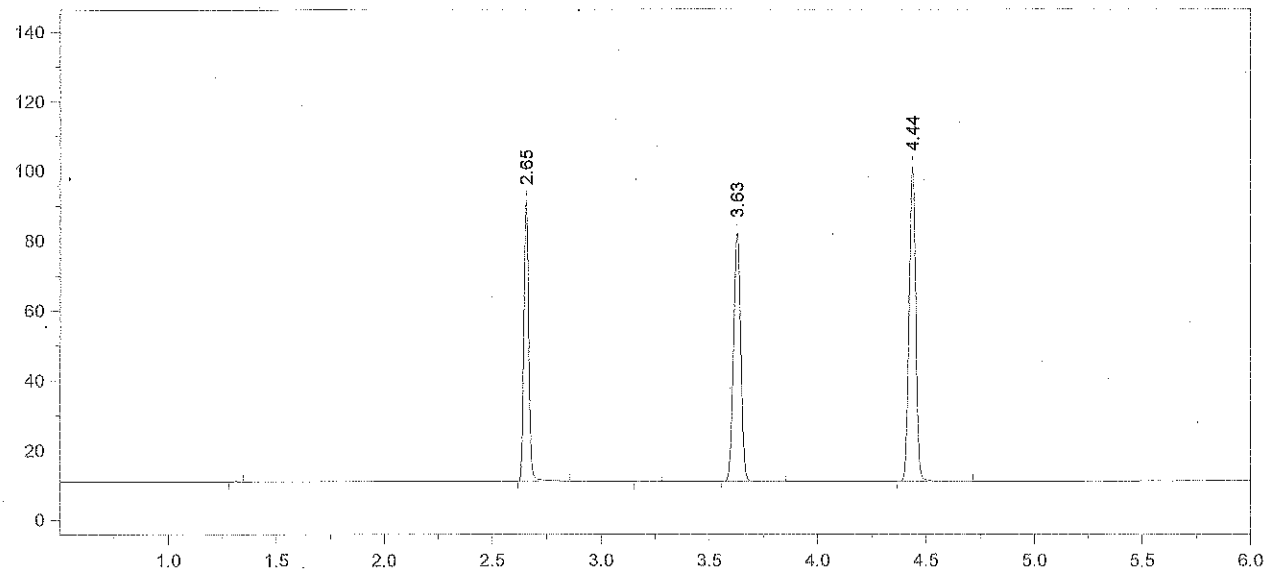


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 11:41:01 PM
Bound File Name = VFL09112014.0032.RAW
Sample Name = 0.1 ALB
Date Taken = 9/11/2014 11:40:50 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	115021	0.1204	0.0983
4	3.63	t-Butanol	163932	1.0329	0.8431
5	4.44	n-Propanol	180485	1.0000	0.8162

14-12-100 33

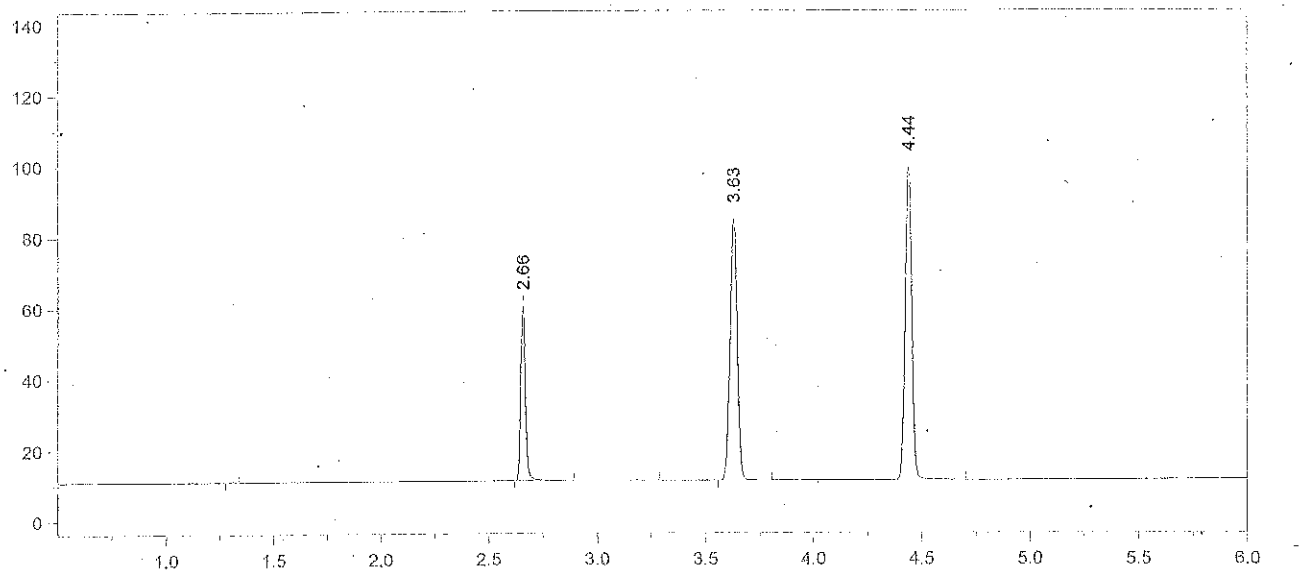


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/11/2014 Today's Time = 11:54:52 PM
Bound File Name = VFL09112014.0033.RAW
Sample Name = 0.1 ALB
Date Taken = 9/11/2014 11:54:41 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09112014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	124618	0.1230	0.1004
4	3.63	t-Butanol	165249	0.9821	0.8016
5	4.44	n-Propanol	191355	1.0000	0.8162

14-12-100 34



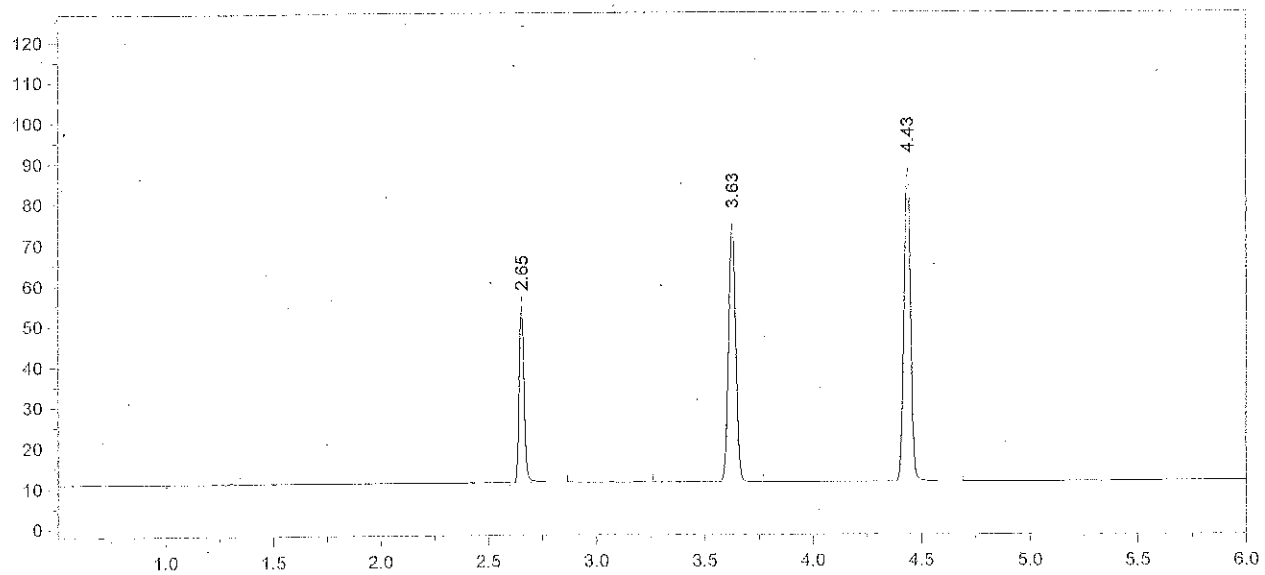
Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 12:12:28 AM
Bound File Name = VFL09112014.0034.RAW
Sample Name = CCS
Date Taken = 9/12/2014 12:12:20 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	77089	0.0774 *
4	3.63	t-Butanol	170915	1.0330
5	4.44	n-Propanol	188163	1.0000

14-12-100

35



Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 12:26:07 AM
Bound File Name = VFL09112014.0035.RAW
Sample Name = CCS
Date Taken = 9/12/2014 12:25:59 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09112014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	67878	0.0778 *
4	3.63	t-Butanol	146768	1.0124
5	4.43	n-Propanol	164858	1.0000

Avg #34 + #35 = 0.077
KLM 9/12/14

14-12-100
36
KLM

File Name: C:\Methods\VFL09122014.CAL
Version: 7

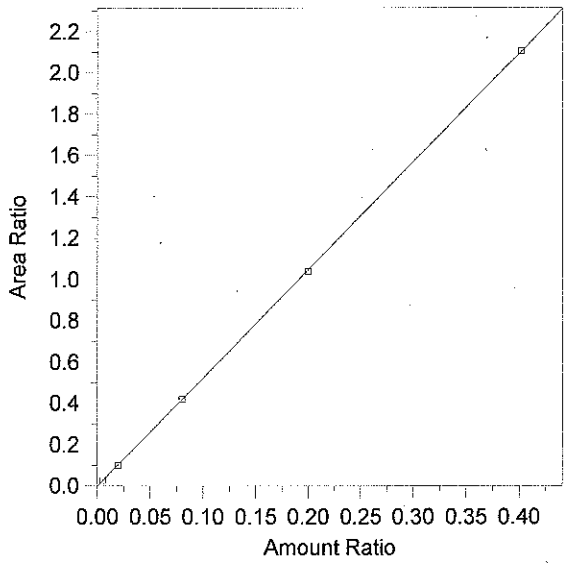
Creator:
Description:
Reason for change:

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: 2.656 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

$Y = 5.239223 X + 0$

Linear fit with equal weighting, forced to origin
Coefficient of determination: 0.9999739
Average error: 2.292%
Average CF: 5.250794
RSD: 3.708%

Level	Amount	Response	Cal Factor	Error, %	Amount Ratio	Response Ratio	Source	Date and time
1	(0.0836)	(85146)	--	--	0.0836	85146	Manual	8/13/2014 9:33:12 AM
2	0.0049	5214.167	1064116	5.849	0.0049	2.717369E-02	C:\Alcohol Data\VFL09122014\VFL09122014.0003.BND	9/12/2014 3:44:43 PM
3	0.0197	22217.5	1127792	-4.560	0.0197	9.850641E-02	C:\Alcohol Data\VFL09122014\VFL09122014.0004.BND	9/12/2014 4:00:47 PM
4	0.0801	81263.09	1014521	0.280	0.0801	0.420838	C:\Alcohol Data\VFL09122014\VFL09122014.0005.BND	9/12/2014 4:15:46 PM
5	0.1998	205564.4	1028851	-0.617	0.1998	1.040338	C:\Alcohol Data\VFL09122014\VFL09122014.0006.BND	9/12/2014 4:32:24 PM
6	0.4011	416263.5	1037805	0.152	0.4011	2.104648	C:\Alcohol Data\VFL09122014\VFL09122014.0007.BND	9/12/2014 4:46:12 PM

14-12-100

37

File Name = C:\Alcohol Data\VFL09122014\VFL09122014.SEQ
Version = 1
File Date = 9/12/2014 2:37:28 PM

Entry #	Raw File Name	Method File Name	Sample Name	Sample Wt.	Int. Std. Amount
1	VFL09122014.0001.raw	Blood Alc temp VFL.MET	Blank	1.00	1.00
2	VFL09122014.0002.raw	Blood Alc temp VFL.MET	TMX	1.00	1.00
3	VFL09122014.0003.raw	Blood Alc temp VFL.MET	STD A	1.00	1.00
4	VFL09122014.0004.raw	Blood Alc temp VFL.MET	STD B	1.00	1.00
5	VFL09122014.0005.raw	Blood Alc temp VFL.MET	STD C	1.00	1.00
6	VFL09122014.0006.raw	Blood Alc temp VFL.MET	STD D	1.00	1.00
7	VFL09122014.0007.raw	Blood Alc temp VFL.MET	STD E	1.00	1.00
8	VFL09122014.0008.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
9	VFL09122014.0009.raw	Blood Alc temp VFL.MET	AQ QC	1.00	1.00
10	VFL09122014.0010.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
11	VFL09122014.0011.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
12	VFL09122014.0012.raw	Blood Alc temp VFL.MET	ES-09122014 A	1.00	1.00
13	VFL09122014.0013.raw	Blood Alc temp VFL.MET	ES-09122014 ~~A~~B	1.00	1.00
14	VFL09122014.0014.raw	Blood Alc temp VFL.MET	ES-09122014 ~~A~~C	1.00	1.00
15	VFL09122014.0015.raw	Blood Alc temp VFL.MET	ES-09122014 ~~A~~D	1.00	1.00
16	VFL09122014.0016.raw	Blood Alc temp VFL.MET	ES-09122014 ~~A~~E	1.00	1.00
17	VFL09122014.0017.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
18	VFL09122014.0018.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
19	VFL09122014.0019.raw	simsoln.met	0.1 RLM	1.00	1.00
20	VFL09122014.0020.raw	simsoln.met	0.1 RLM	1.00	1.00
21	VFL09122014.0021.raw	simsoln.met	0.1 RLM	1.00	1.00
22	VFL09122014.0022.raw	simsoln.met	0.1 RLM	1.00	1.00
23	VFL09122014.0023.raw	simsoln.met	0.1 RLM	1.00	1.00
24	VFL09122014.0024.raw	simsoln.met	0.1 RLM	1.00	1.00
25	VFL09122014.0025.raw	simsoln.met	0.1 RLM	1.00	1.00
26	VFL09122014.0026.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
27	VFL09122014.0027.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
28	VFL09122014.0028.raw	simsoln.met	0.1 ALB	1.00	1.00
29	VFL09122014.0029.raw	simsoln.met	0.1 ALB	1.00	1.00
30	VFL09122014.0030.raw	simsoln.met	0.1 ALB	1.00	1.00
31	VFL09122014.0031.raw	simsoln.met	0.1 ALB	1.00	1.00
32	VFL09122014.0032.raw	simsoln.met	0.1 ALB	1.00	1.00
33	VFL09122014.0033.raw	simsoln.met	0.1 ALB	1.00	1.00
34	VFL09122014.0034.raw	simsoln.met	0.1 ALB	1.00	1.00
35	VFL09122014.0035.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00
36	VFL09122014.0036.raw	Blood Alc temp VFL.MET	CCS	1.00	1.00

Calibrator verifications not included.

RZm 9/16/14

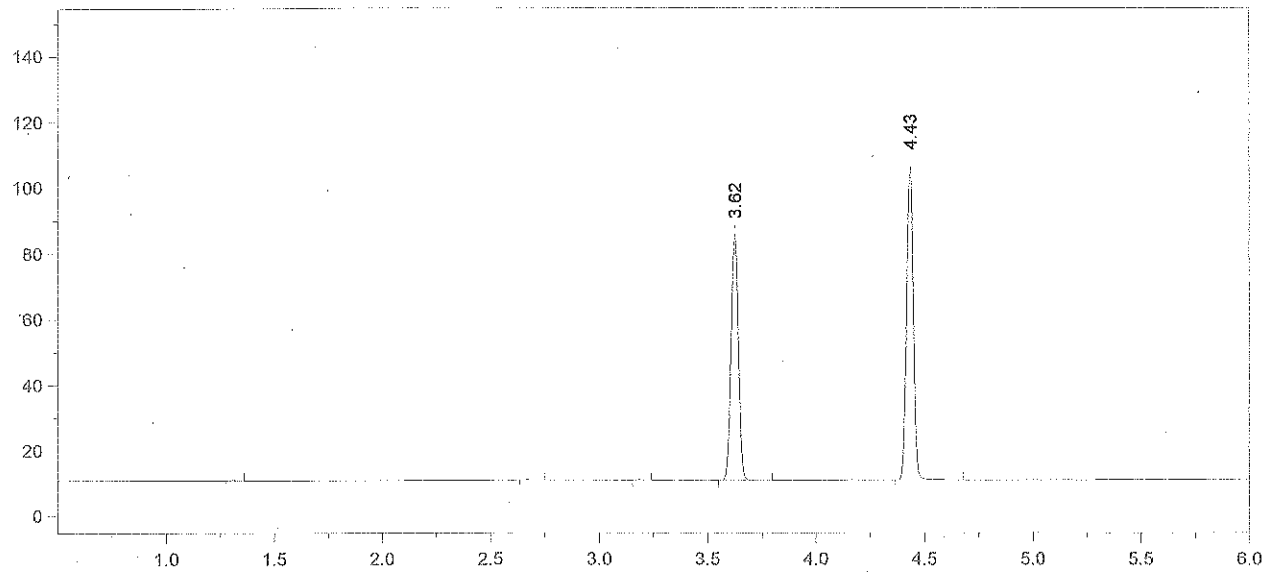
RZm 9/16/14

RZm 9/16/14

RZm 9/16/14

RZm 9/16/14

Lot #s:
Aqueous Blank: BL-08112014
Timing Mix: TMX-08112014
Internal Standard: IS-07082014
Ethanol Standard: ES-06162014
Aqueous Control: Cerilliant FN021111-03
RZm 9/16/14

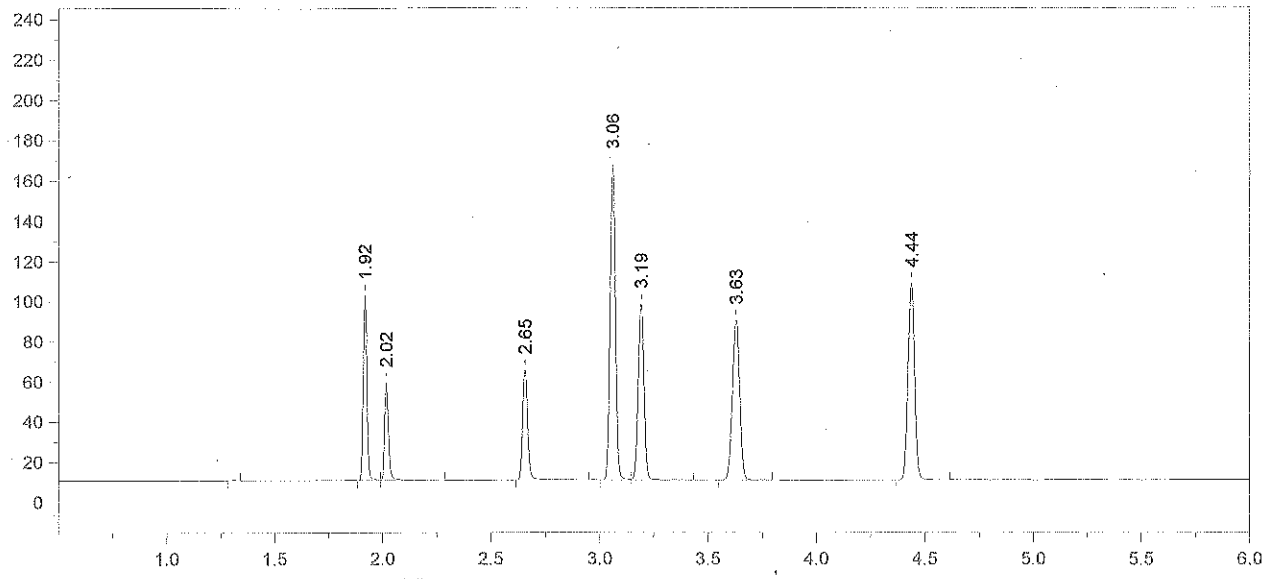


Format File Name = AlcoholVFL.FMT

Today's Date = 9/15/2014
Today's Time = 4:16:07 PM
Bound File Name = VFL09122014.0001.RAW
Sample Name = Blank
Date Taken = 9/12/2014 3:12:54 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
4	3.62	t-Butanol	174077	0.9771
5	4.43	n-Propanol	204153	1.0000

14-12-100 39

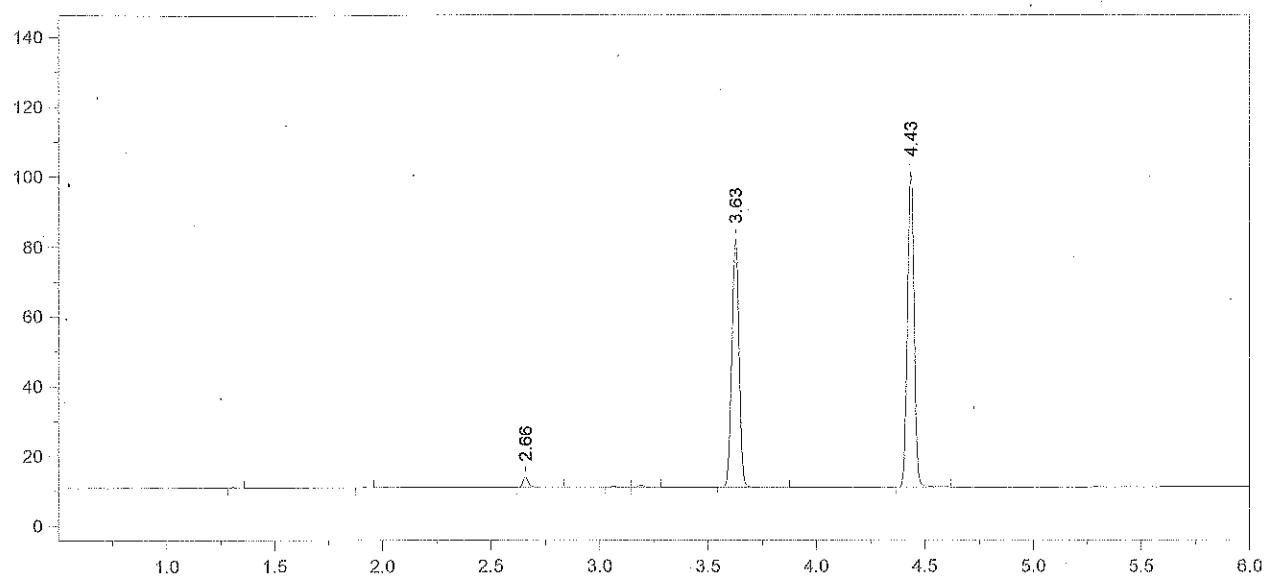


Format File Name = AlcoholVFL.FMT

Today's Date = 9/15/2014 Today's Time = 4:16:20 PM
Bound File Name = VFL09122014.0002.RAW
Sample Name = TMX
Date Taken = 9/12/2014 3:30:53 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	1.92	Acetaldehyde	109101	0.0695
3	2.02	Methanol	61549	0.1232
4	2.65	Ethanol	86440	0.0795
5	3.06	Acetone	270032	0.0657
6	3.19	Isopropanol	163997	0.0848
7	3.63	t-Butanol	184394	1.0184
8	4.44	n-Propanol	207484	1.0000

14-12-100 40

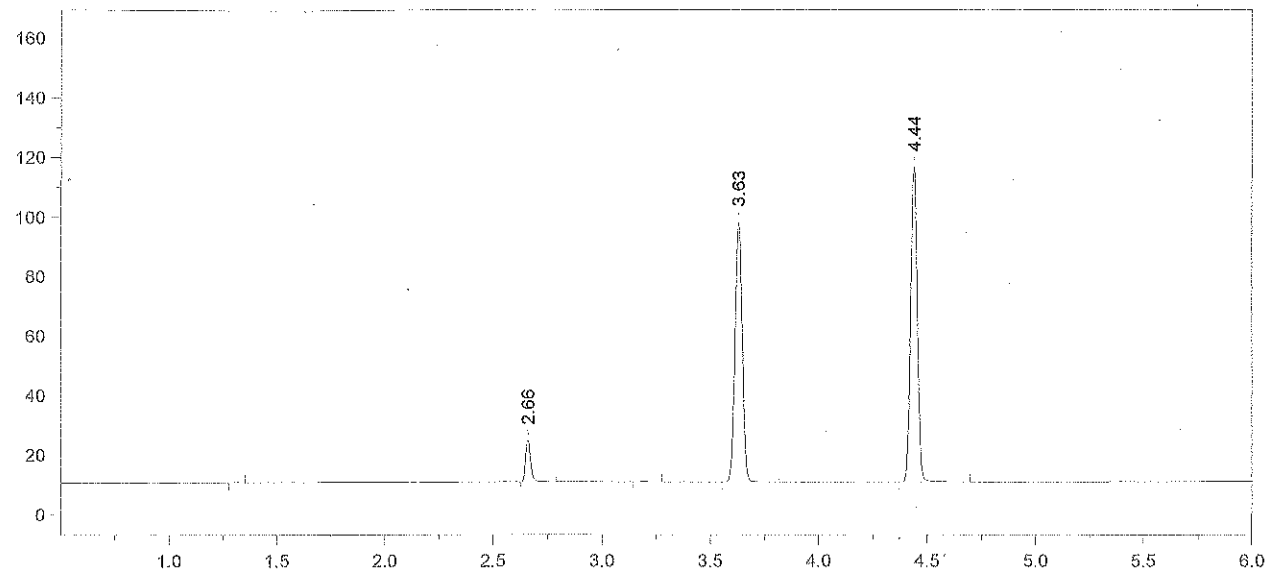


Format File Name = AlcoholVFL.FMT

Today's Date = 9/15/2014 Today's Time = 4:16:29 PM
Bound File Name = VFL09122014.0003.RAW
Sample Name = STD A
Date Taken = 9/12/2014 3:44:36 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
3	2.66	Ethanol	05214	0.0052 *
6	3.63	t-Butanol	164647	0.9833
7	4.43	n-Propanol	191883	1.0000

14-12-100 41

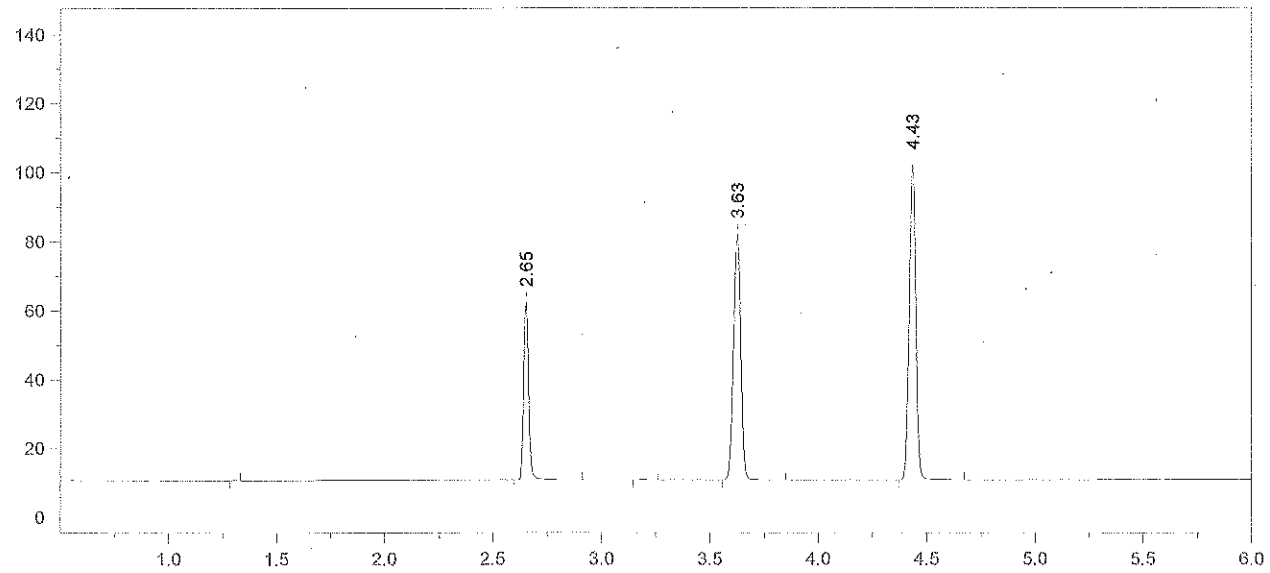


Format File Name = AlcoholVFL.FMT

Today's Date = 9/15/2014
Today's Time = 4:16:39 PM
Bound File Name = VFL09122014.0004.RAW
Sample Name = STD B
Date Taken = 9/12/2014 4:00:37 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	22218	0.0188 *
4	3.63	t-Butanol	201365	1.0231
5	4.44	n-Propanol	225544	1.0000

14-12-100 42

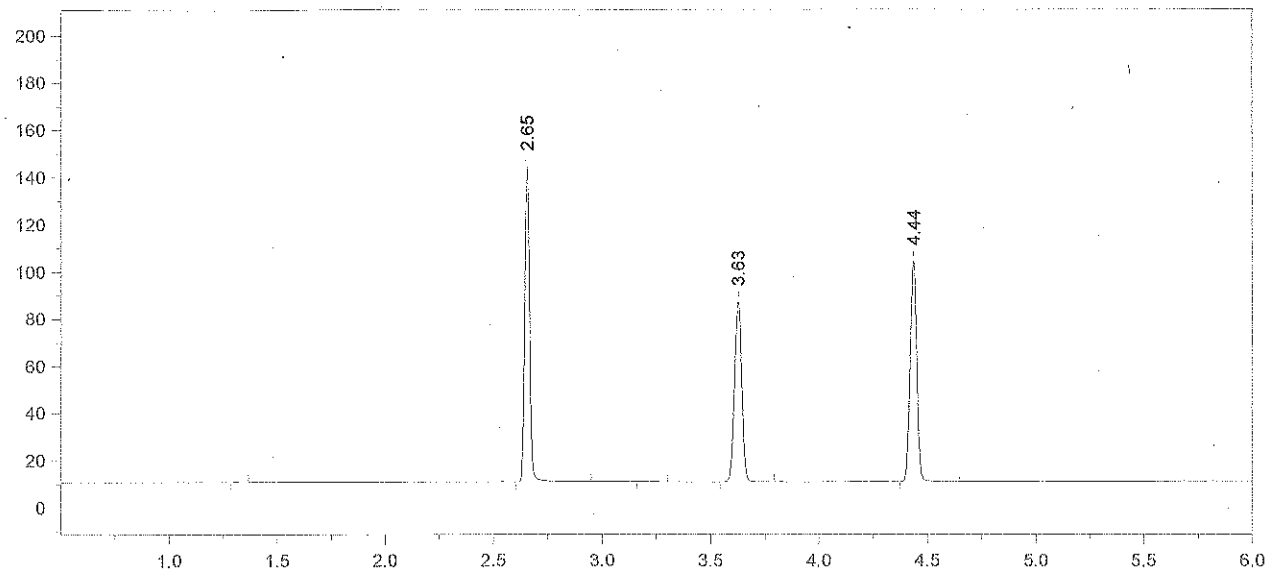


Format File Name = AlcoholVFL.FMT

Today's Date = 9/15/2014 Today's Time = 4:16:49 PM
Bound File Name = VFL09122014.0005.RAW
Sample Name = STD C
Date Taken = 9/12/2014 4:15:36 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	81263	0.0803 *
4	3.63	t-Butanol	164951	0.9789
5	4.43	n-Propanol	193098	1.0000

14-12-100 43

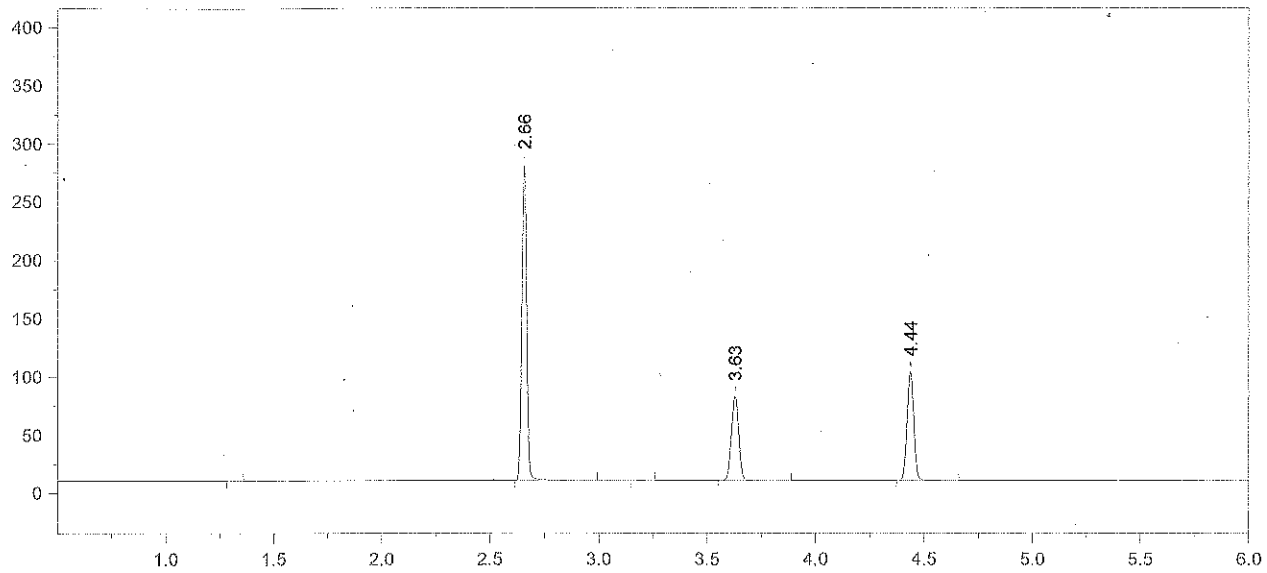


Format File Name = AlcoholVFL.FMT

Today's Date = 9/15/2014 Today's Time = 4:16:57 PM
Bound File Name = VFL09122014.0006.RAW
Sample Name = STD D
Date Taken = 9/12/2014 4:32:12 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	205564	0.1986 *
4	3.63	t-Butanol	176695	1.0247
5	4.44	n-Propanol	197594	1.0000

14-12-100 44

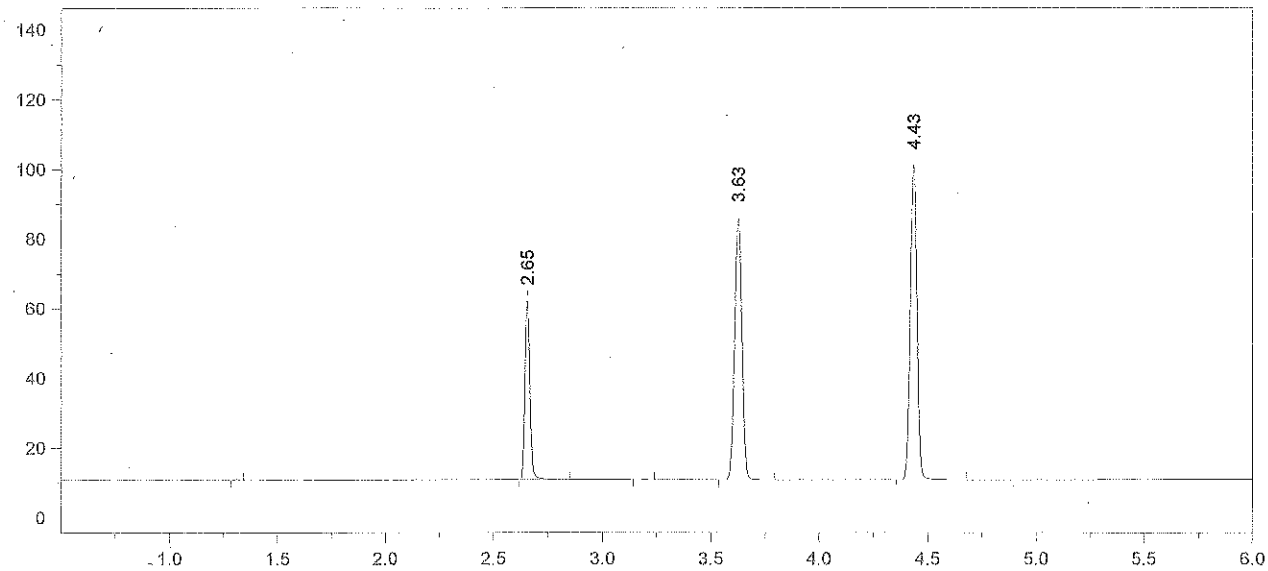


Format File Name = AlcoholVFL.FMT

Today's Date = 9/15/2014 Today's Time = 4:17:07 PM
Bound File Name = VFL09122014.0007.RAW
Sample Name = STD E
Date Taken = 9/12/2014 4:46:05 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	416264	0.4017
4	3.63	t-Butanol	167714	0.9717
5	4.44	n-Propanol	197783	1.0000

14-12-100 45

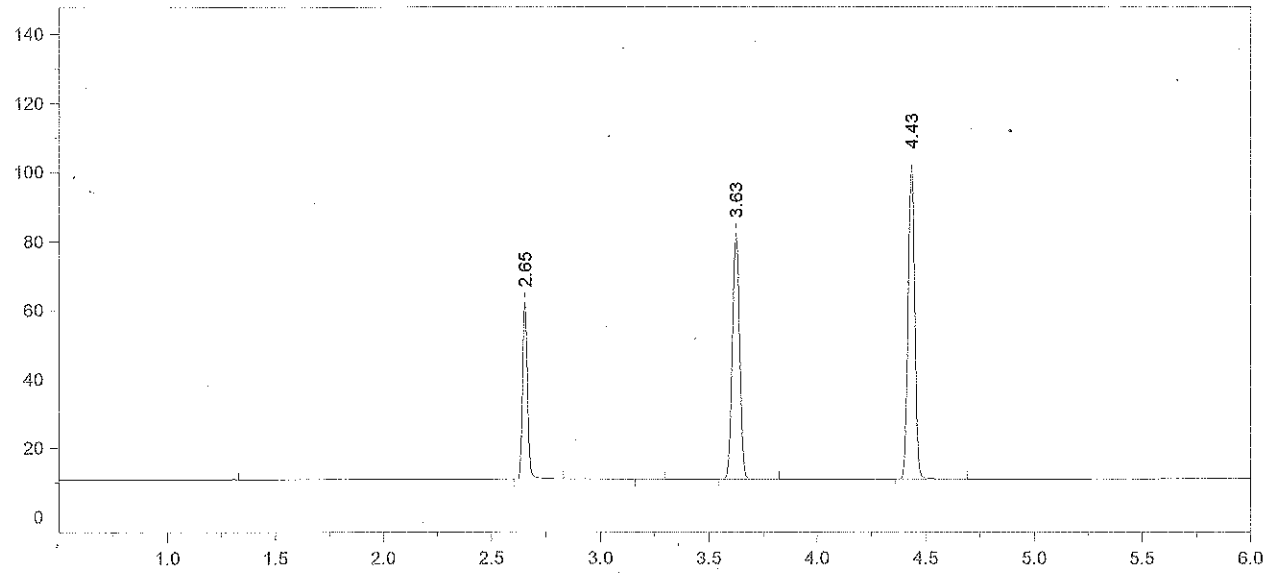


Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 5:03:47 PM
Bound File Name = VFL09122014.0008.RAW
Sample Name = AQ QC
Date Taken = 9/12/2014 5:03:36 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	79632	0.0788 *
4	3.63	t-Butanol	173732	1.0319
5	4.43	n-Propanol	192932	1.0000

14-12-100 46



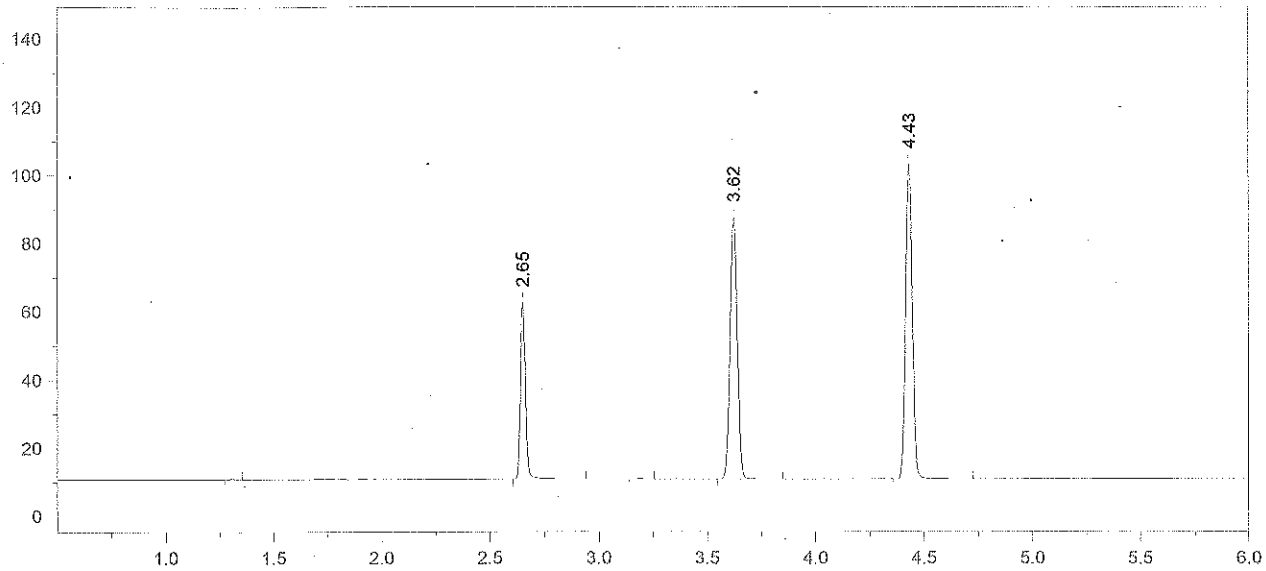
Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014 Today's Time = 5:17:29 PM
Bound File Name = VFL09122014.0009.RAW
Sample Name = AQ QC
Date Taken = 9/12/2014 5:17:22 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80211	0.0789 *
4	3.63	t-Butanol	165796	0.9785
5	4.43	n-Propanol	194156	1.0000

Avg #8+#9 = 0.079
Target value 0.080
% recovery = 99%
KZM 9/16/14

14-12-100 47 KZM



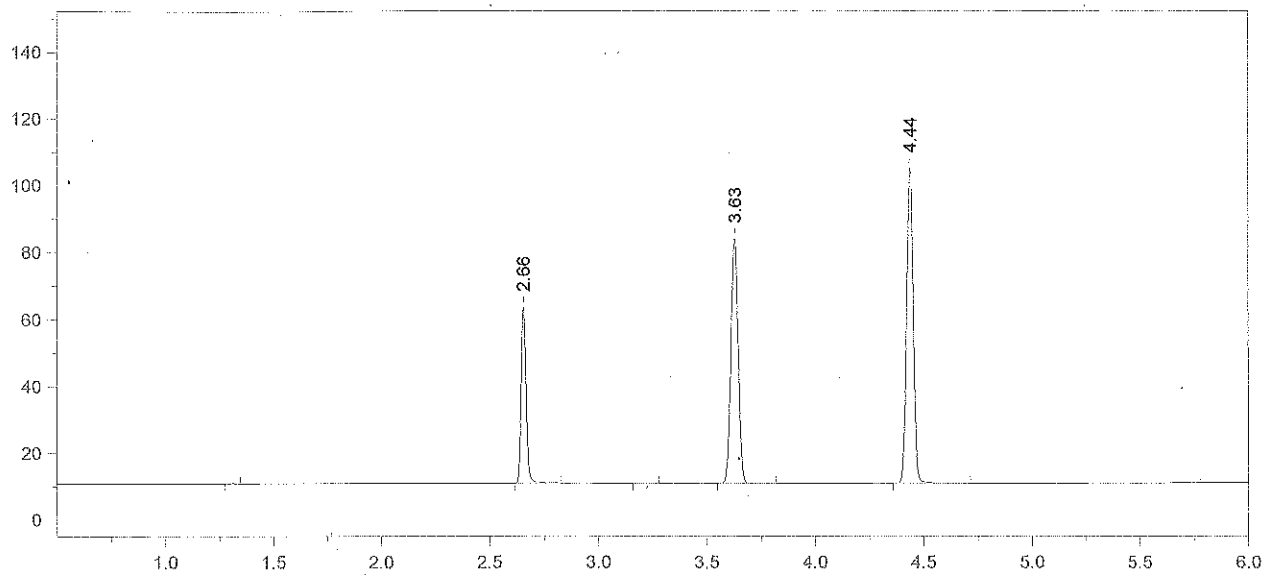
Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 5:35:14 PM
Bound File Name = VFL09122014.0010.RAW
Sample Name = CCS
Date Taken = 9/12/2014 5:35:03 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	81085	0.0785 *
4	3.62	t-Butanol	177389	1.0315
5	4.43	n-Propanol	197072	1.0000

14-12-100

48



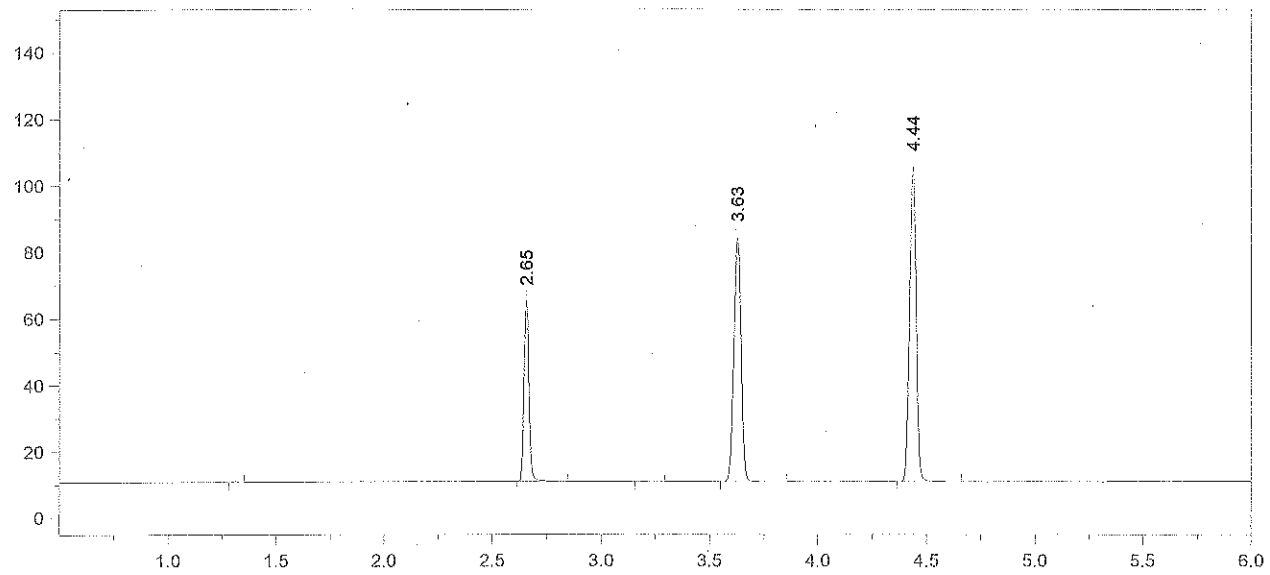
Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 5:49:06 PM
Bound File Name = VFL09122014.0011.RAW
Sample Name = CCS
Date Taken = 9/12/2014 5:48:56 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	82944	0.0791 *
4	3.63	t-Butanol	170014	0.9740
5	4.44	n-Propanol	200027	1.0000

Avg # 10 + #11 = 0.079
RM 9/16/14

14-12-100 49 RM



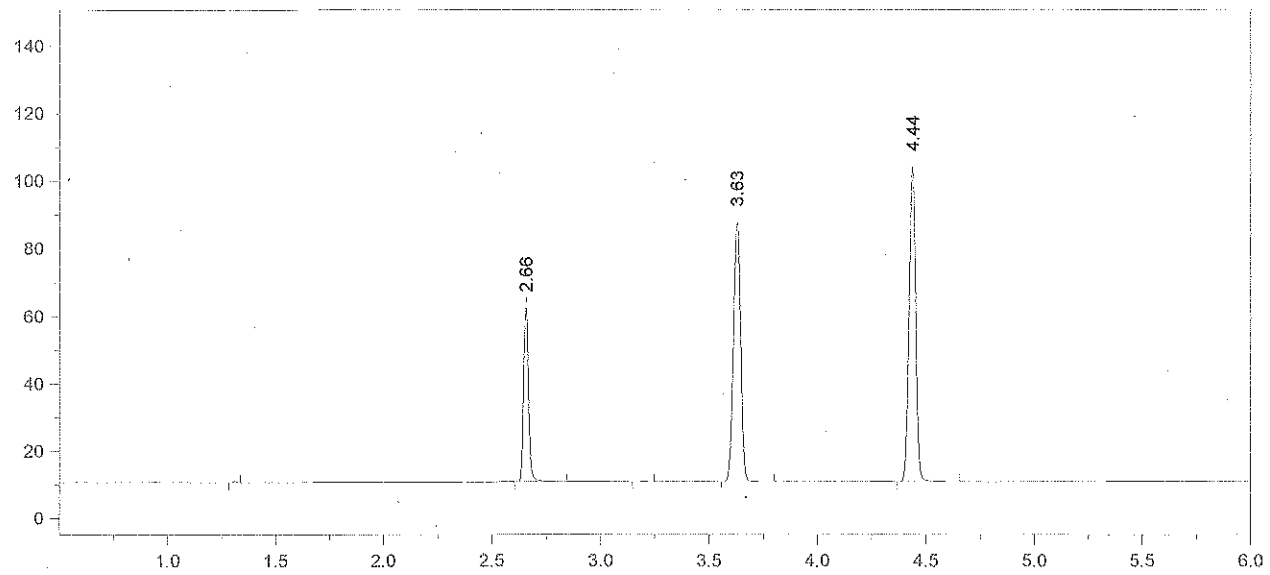
Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 7:23:23 PM
Bound File Name = VFL09122014.0017.RAW
Sample Name = CCS
Date Taken = 9/12/2014 7:23:14 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	85231	0.0810
4	3.63	t-Butanol	170646	0.9734
5	4.44	n-Propanol	200886	1.0000

14-12-100

50



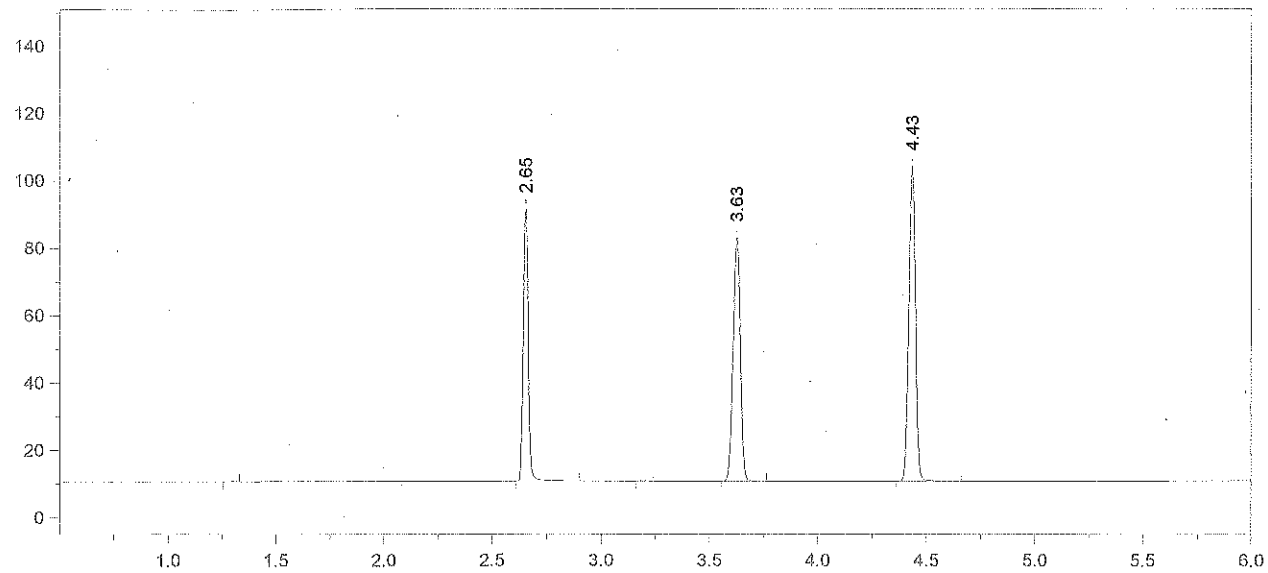
Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014
Today's Time = 7:40:54 PM
Bound File Name = VFL09122014.0018.RAW
Sample Name = CCS
Date Taken = 9/12/2014 7:40:43 PM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.66	Ethanol	80896	0.0779 *
4	3.63	t-Butanol	178630	1.0330
5	4.44	n-Propanol	198161	1.0000

Avg # 17 + #18 = 0.079
Kim 9/16/14

14-12-100
51
Kim

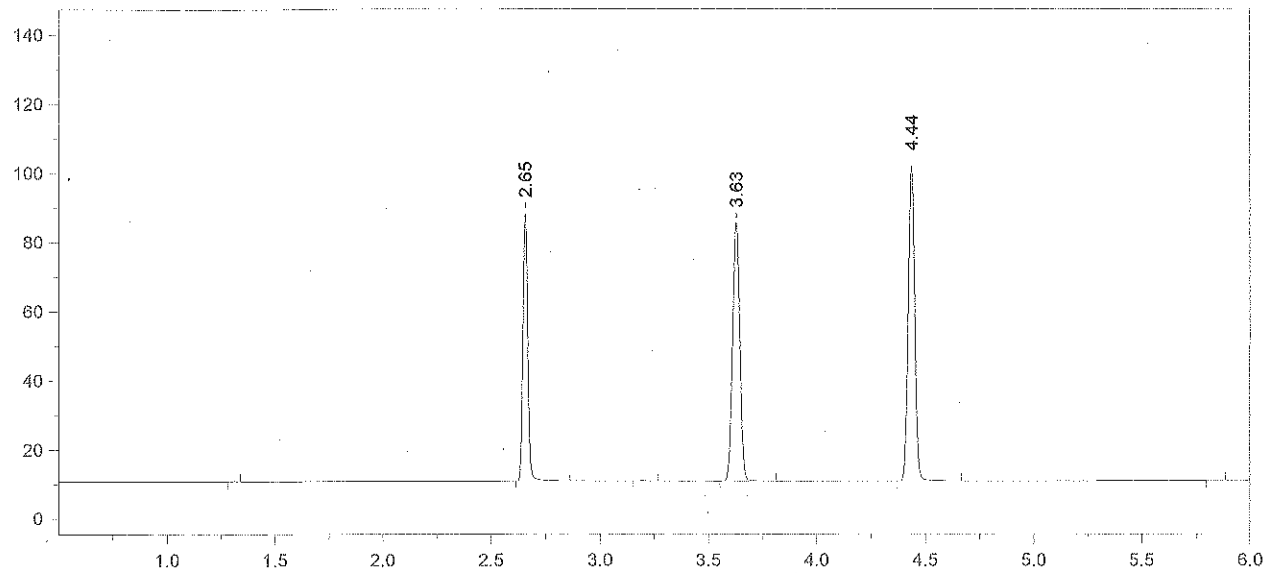


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/12/2014 Today's Time = 7:54:38 PM
Bound File Name = VFL09122014.0019.RAW
Sample Name = 0.1 RLM
Date Taken = 9/12/2014 7:54:29 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	126547	0.1216	0.0993
4	3.63	t-Butanol	167639	0.9673	0.7895
5	4.43	n-Propanol	198593	1.0000	0.8162

14-12-100 52

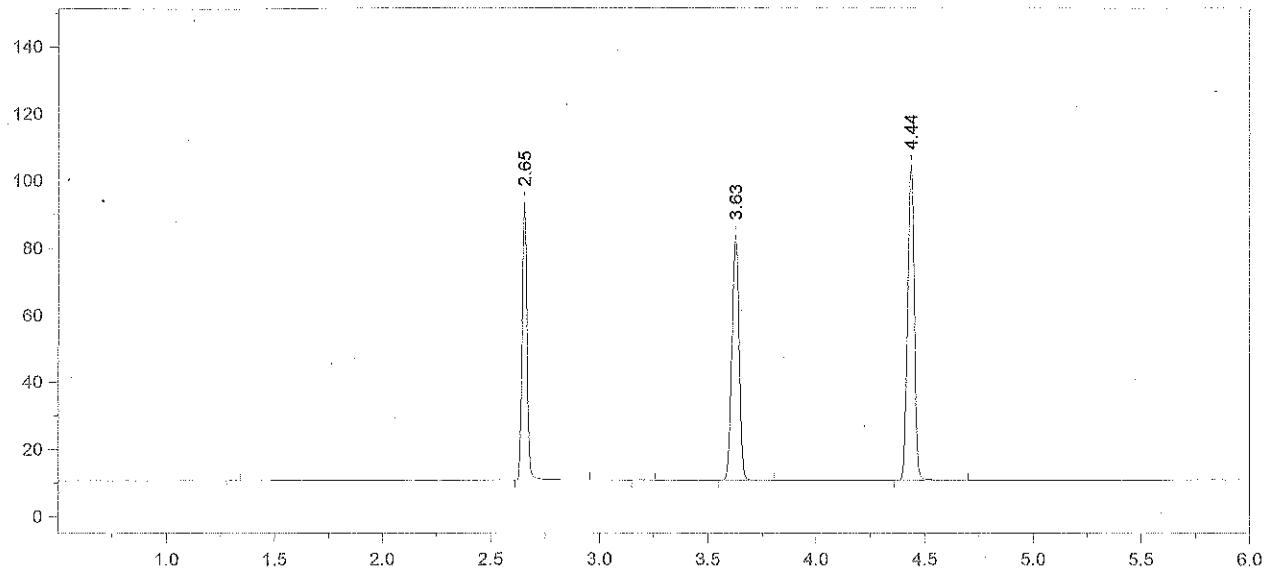


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/12/2014 Today's Time = 8:12:15 PM
Bound File Name = VFL09122014.0020.RAW
Sample Name = 0.1 RLM
Date Taken = 9/12/2014 8:12:05 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	121145	0.1196	0.0976
4	3.63	t-Butanol	173620	1.0288	0.8397
5	4.44	n-Propanol	193382	1.0000	0.8162

14-12-100 53 RLM

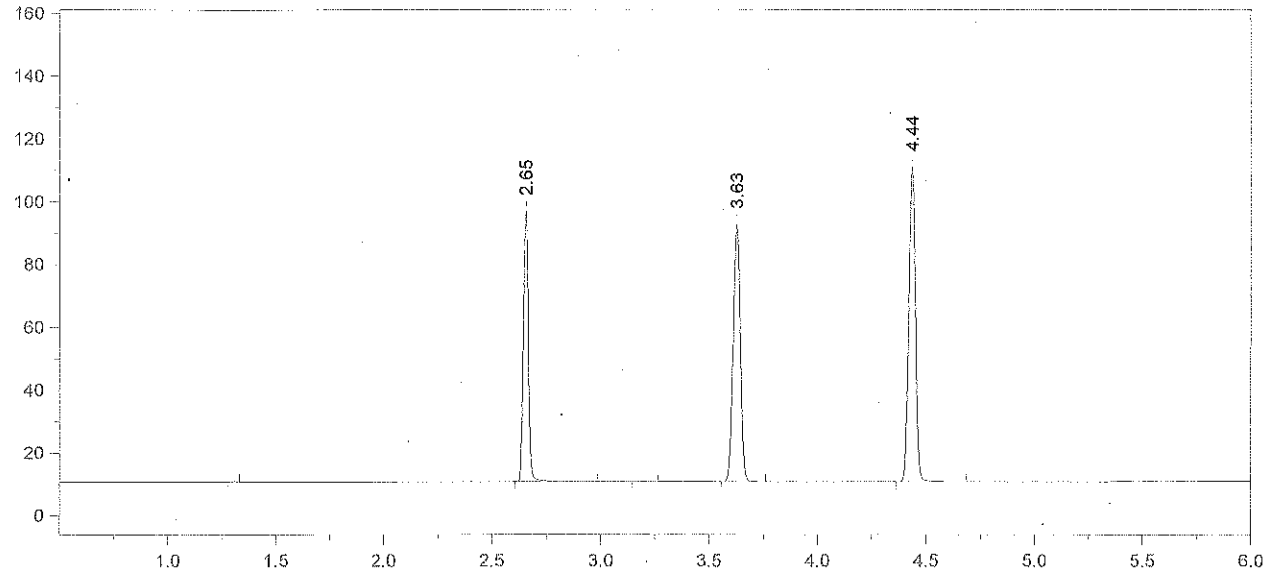


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/12/2014 Today's Time = 8:25:49 PM
Bound File Name = VFL09122014.0021.RAW
Sample Name = 0.1 RLM
Date Taken = 9/12/2014 8:25:43 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128357	0.1222	0.0997
4	3.63	t-Butanol	168989	0.9659	0.7884
5	4.44	n-Propanol	200483	1.0000	0.8162

14-12-100 54

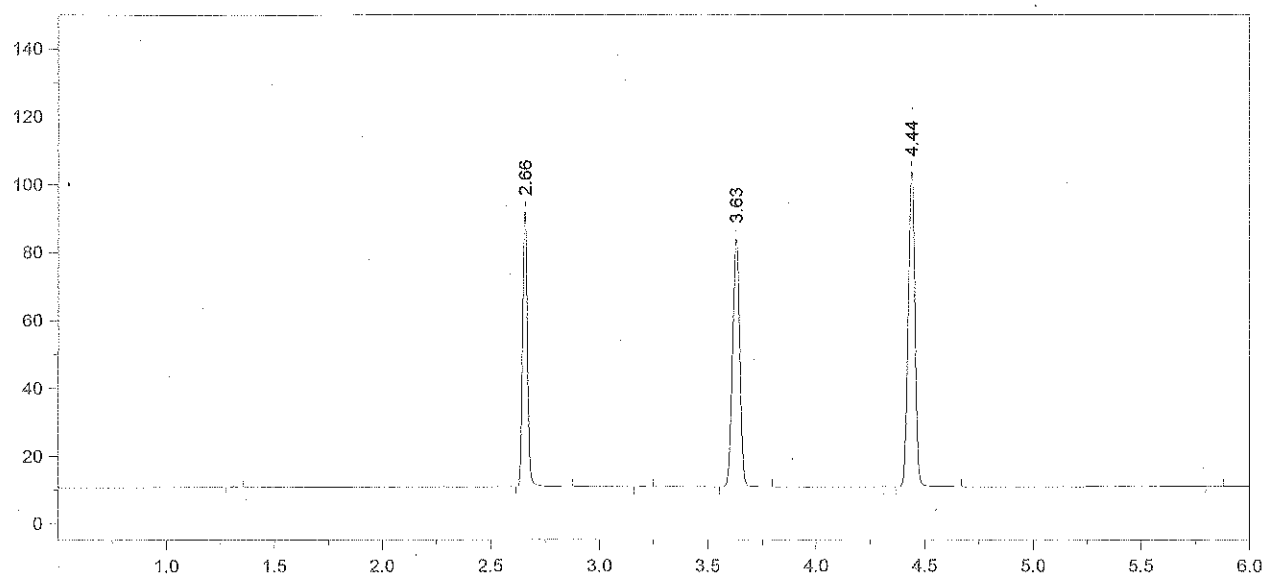


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/12/2014 Today's Time = 8:41:56 PM
Bound File Name = VFL09122014.0022.RAW
Sample Name = 0.1 RLM
Date Taken = 9/12/2014 8:41:49 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	133402	0.1192	0.0973
4	3.63	t-Butanol	189566	1.0172	0.8302
5	4.44	n-Propanol	213563	1.0000	0.8162

14-12-100 55 RZM

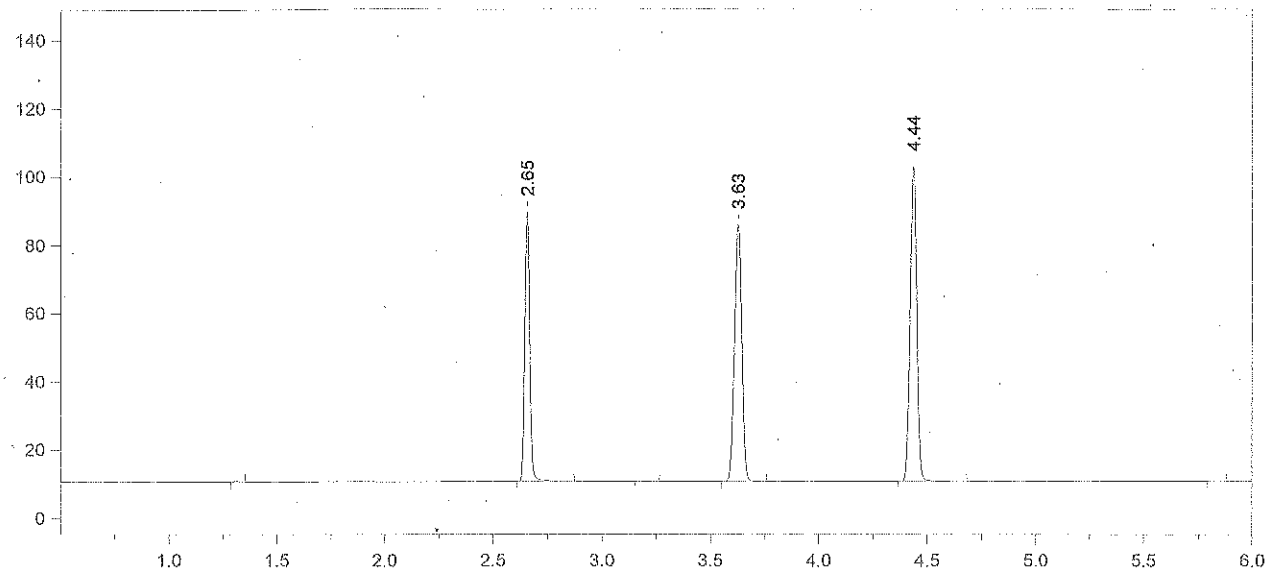


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/12/2014 Today's Time = 8:56:53 PM
Bound File Name = VFL09122014.0023.RAW
Sample Name = 0.1 RLM
Date Taken = 9/12/2014 8:56:44 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	125687	0.1210	0.0988
4	3.63	t-Butanol	169363	0.9791	0.7992
5	4.44	n-Propanol	198209	1.0000	0.8162

14-12-100 56

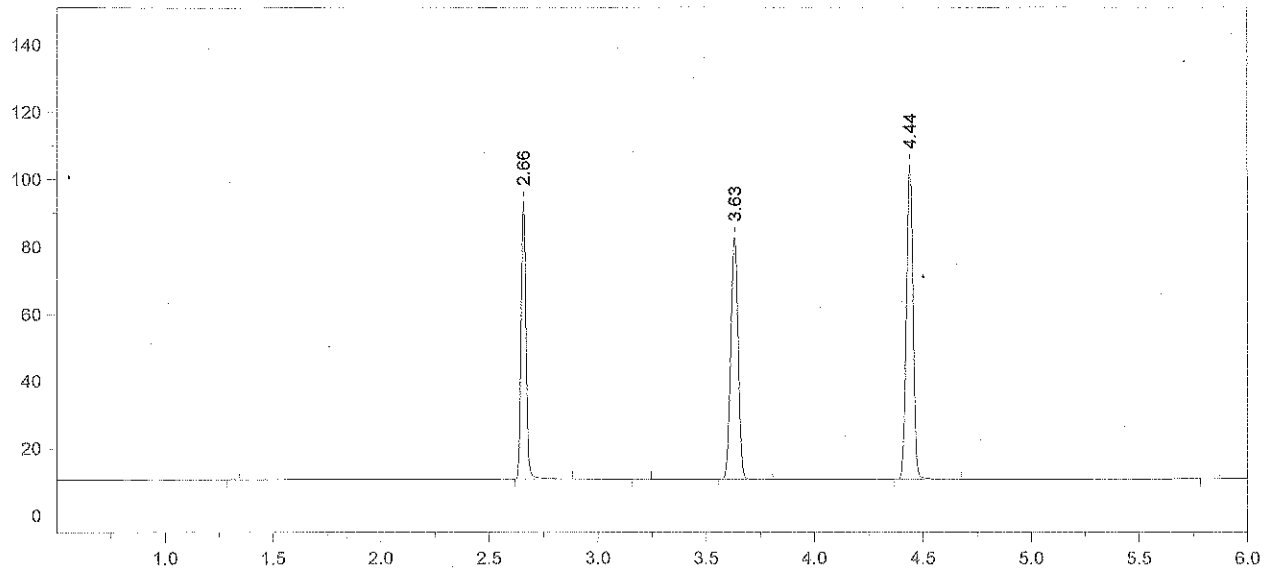


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/12/2014 Today's Time = 9:13:30 PM
Bound File Name = VFL09122014.0024.RAW
Sample Name = 0.1 RLM
Date Taken = 9/12/2014 9:13:20 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122369	0.1198	0.0978
4	3.63	t-Butanol	174544	1.0259	0.8373
5	4.44	n-Propanol	194969	1.0000	0.8162

14-12-100 57

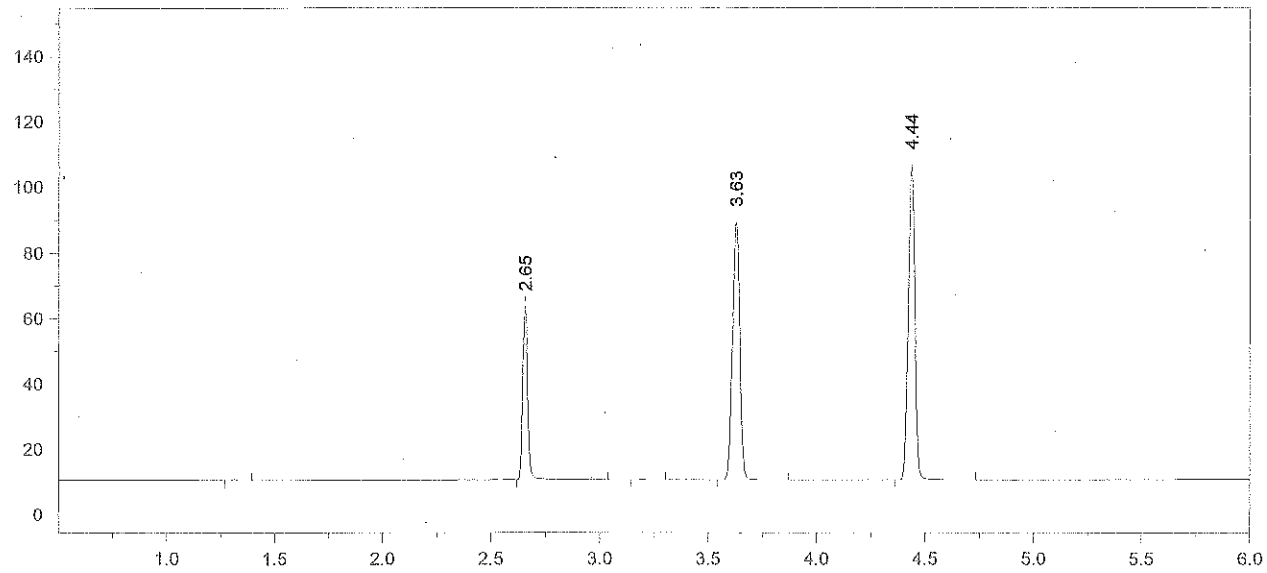


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/16/2014 Today's Time = 10:15:17 AM
Bound File Name = VFL09122014.0025.RAW
Sample Name = 0.1 RLM
Date Taken = 9/12/2014 9:27:09 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	127598	0.1223	0.0999
4	3.63	t-Butanol	167207	0.9625	0.7856
5	4.44	n-Propanol	199070	1.0000	0.8162

14-12-100 58

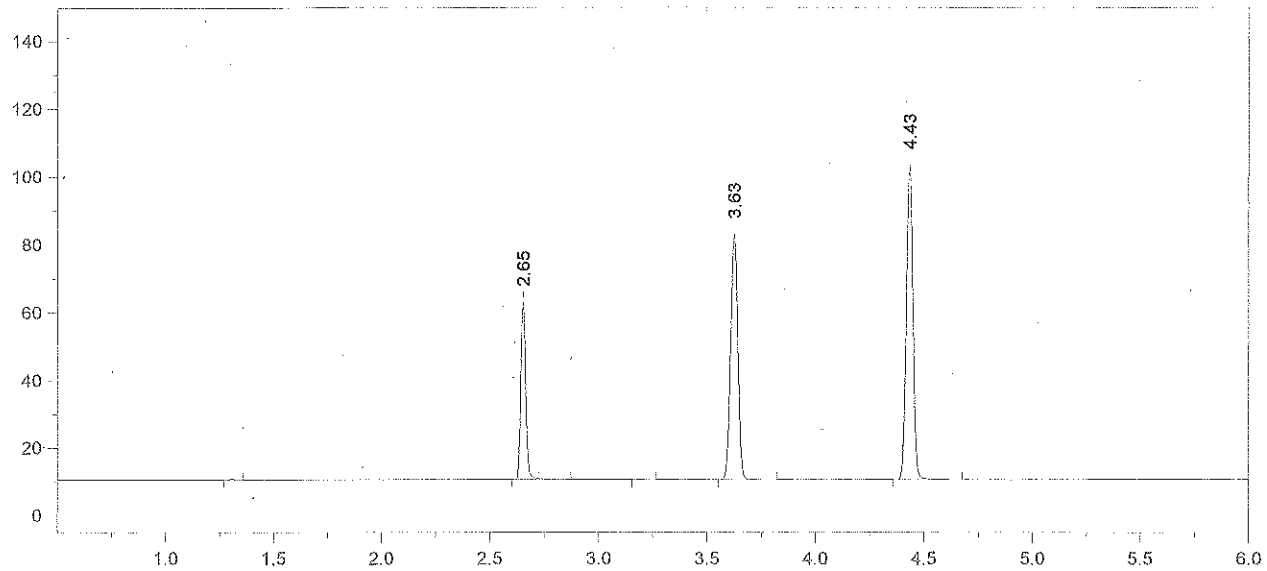


Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014 Today's Time = 9:44:55 PM
Bound File Name = VFL09122014.0026.RAW
Sample Name = CCS
Date Taken = 9/12/2014 9:44:45 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	83629	0.0784 *
4	3.63	t-Butanol	183171	1.0305
5	4.44	n-Propanol	203681	1.0000

14-12-100 59 KM



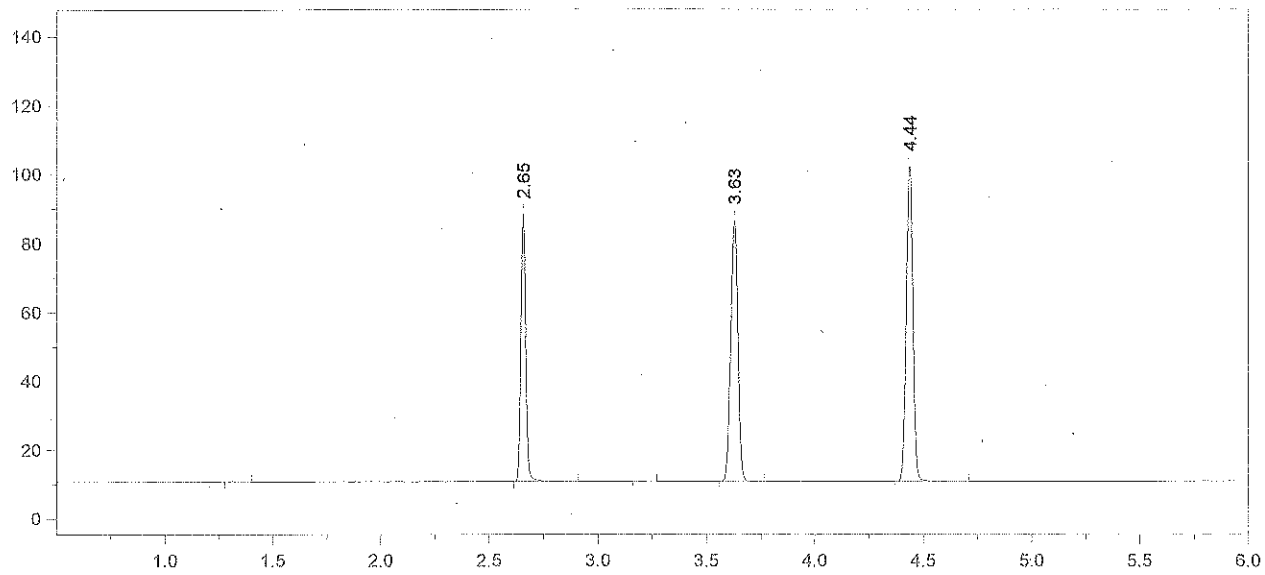
Format File Name = AlcoholVFL.FMT

Today's Date = 9/12/2014 Today's Time = 9:58:54 PM
Bound File Name = VFL09122014.0027.RAW
Sample Name = CCS
Date Taken = 9/12/2014 9:58:43 PM VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	82032	0.0798 *
4	3.63	t-Butanol	167544	0.9787
5	4.43	n-Propanol	196171	1.0000

Avg #26 + #27 = 0.079
KEM 9/16/14

14-12-100 60 KEM

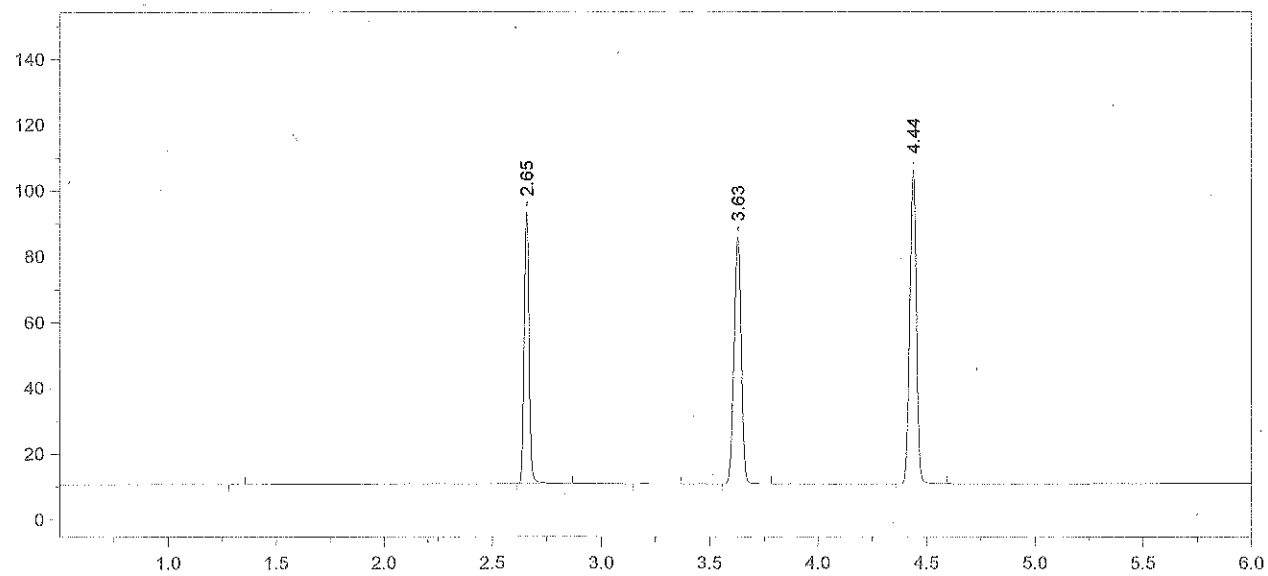


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/12/2014 Today's Time = 10:16:17 PM
Bound File Name = VFL09122014.0028.RAW
Sample Name = 0.1 ALB
Date Taken = 9/12/2014 10:16:09 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	120477	0.1184	0.0966
4	3.63	t-Butanol	176057	1.0388	0.8479
5	4.44	n-Propanol	194209	1.0000	0.8162

14-12-100 61

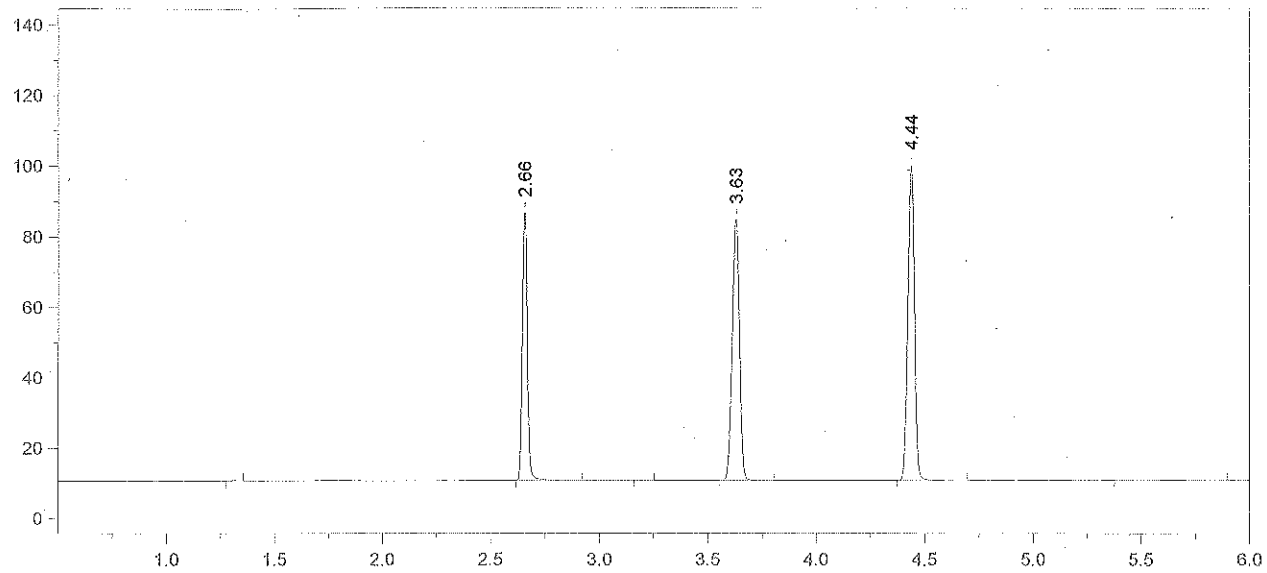


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/12/2014 Today's Time = 10:29:59 PM
Bound File Name = VFL09122014.0029.RAW
Sample Name = 0.1 ALB
Date Taken = 9/12/2014 10:29:47 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	128976	0.1212	0.0989
4	3.63	t-Butanol	173859	0.9811	0.8007
5	4.44	n-Propanol	203074	1.0000	0.8162

14-12-100 62

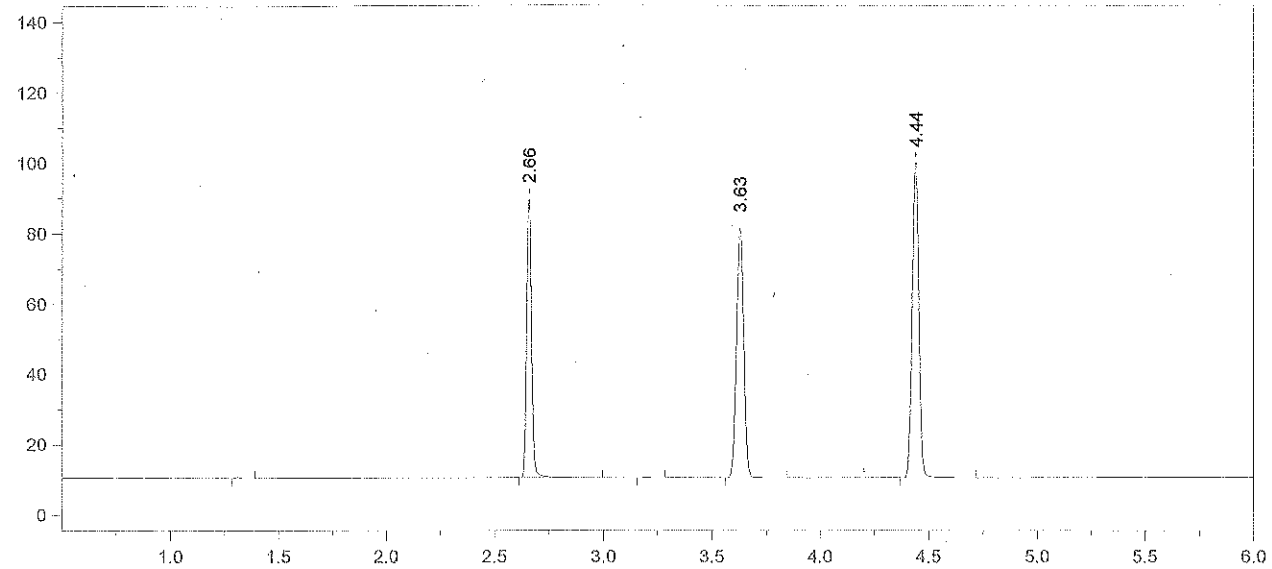


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/12/2014 Today's Time = 10:47:44 PM
Bound File Name = VFL09122014.0030.RAW
Sample Name = 0.1 ALB
Date Taken = 9/12/2014 10:47:34 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	119226	0.1204	0.0983
4	3.63	t-Butanol	171617	1.0407	0.8494
5	4.44	n-Propanol	188962	1.0000	0.8162

14-12-100 63

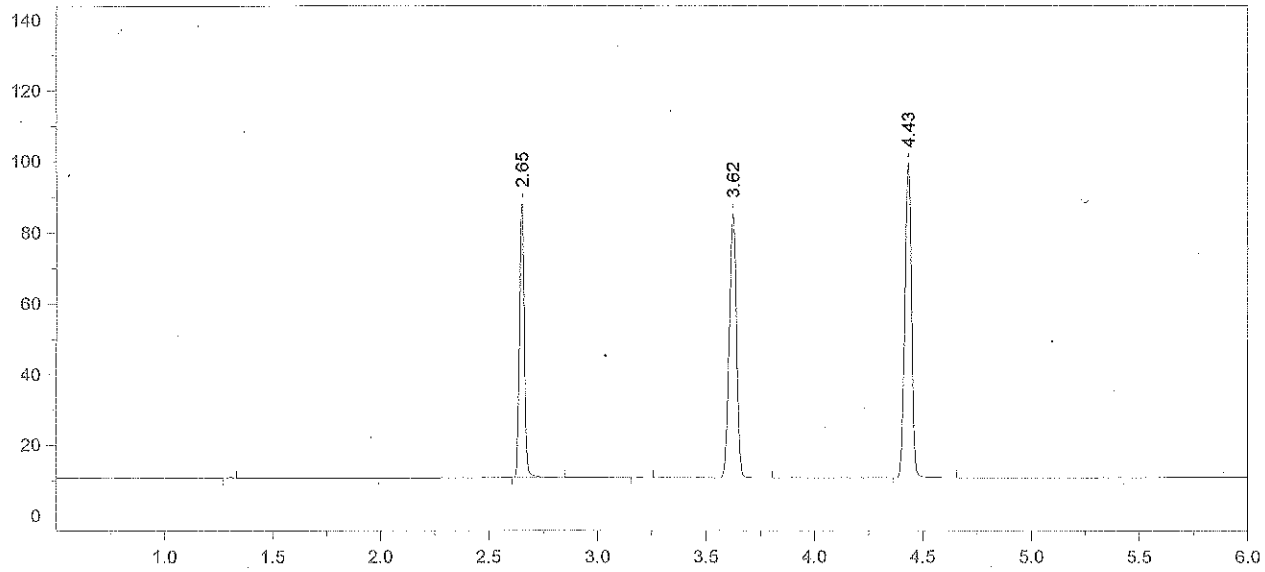


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/12/2014 Today's Time = 11:01:23 PM
Bound File Name = VFL09122014.0031.RAW
Sample Name = 0.1 ALB
Date Taken = 9/12/2014 11:01:17 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	123216	0.1233	0.1007
4	3.63	t-Butanol	164121	0.9864	0.8051
5	4.44	n-Propanol	190666	1.0000	0.8162

14-12-100 64 Kem

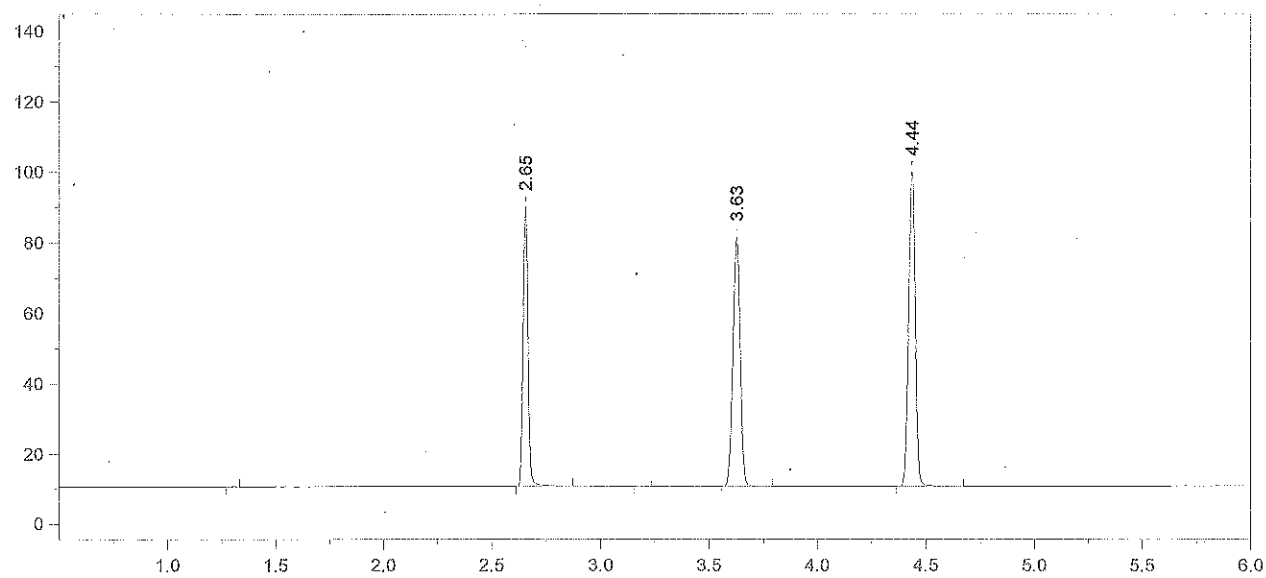


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/12/2014 Today's Time = 11:19:11 PM
Bound File Name = VFL09122014.0032.RAW
Sample Name = 0.1 ALB
Date Taken = 9/12/2014 11:19:00 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	119635	0.1201	0.0981
4	3.62	t-Butanol	172823	1.0419	0.8504
5	4.43	n-Propanol	190071	1.0000	0.8162

14-12-100 65 KZM

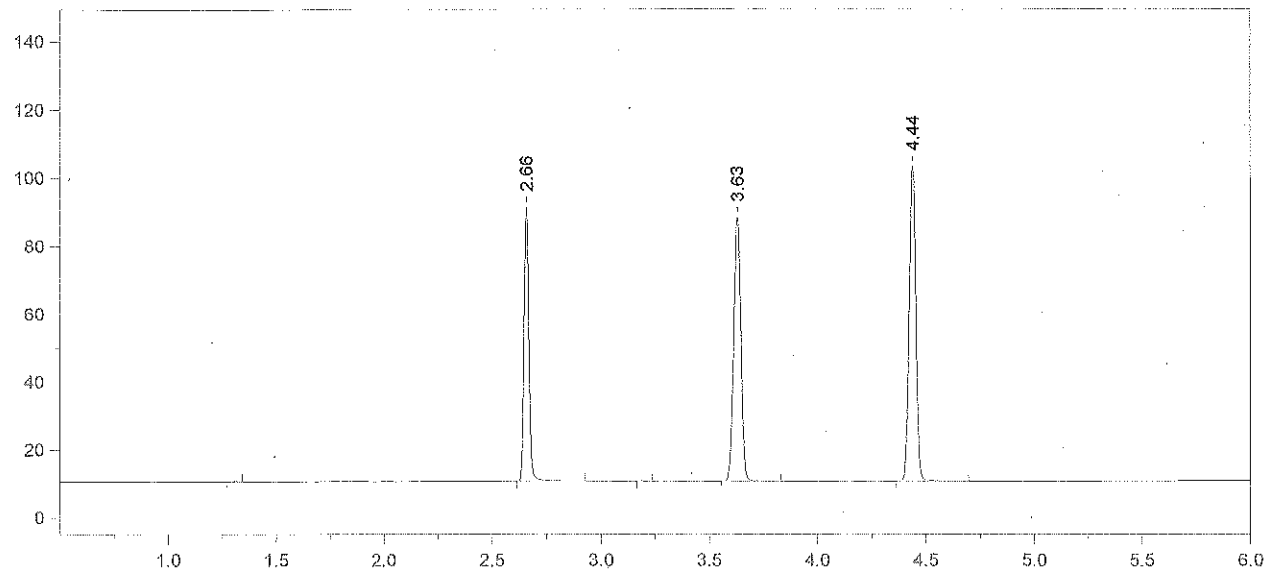


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/12/2014 Today's Time = 11:32:54 PM
Bound File Name = VFL09122014.0033.RAW
Sample Name = 0.1 ALB
Date Taken = 9/12/2014 11:32:49 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.65	Ethanol	122908	0.1232	0.1006
4	3.63	t-Butanol	163895	0.9865	0.8052
5	4.44	n-Propanol	190378	1.0000	0.8162

14-12-100 66

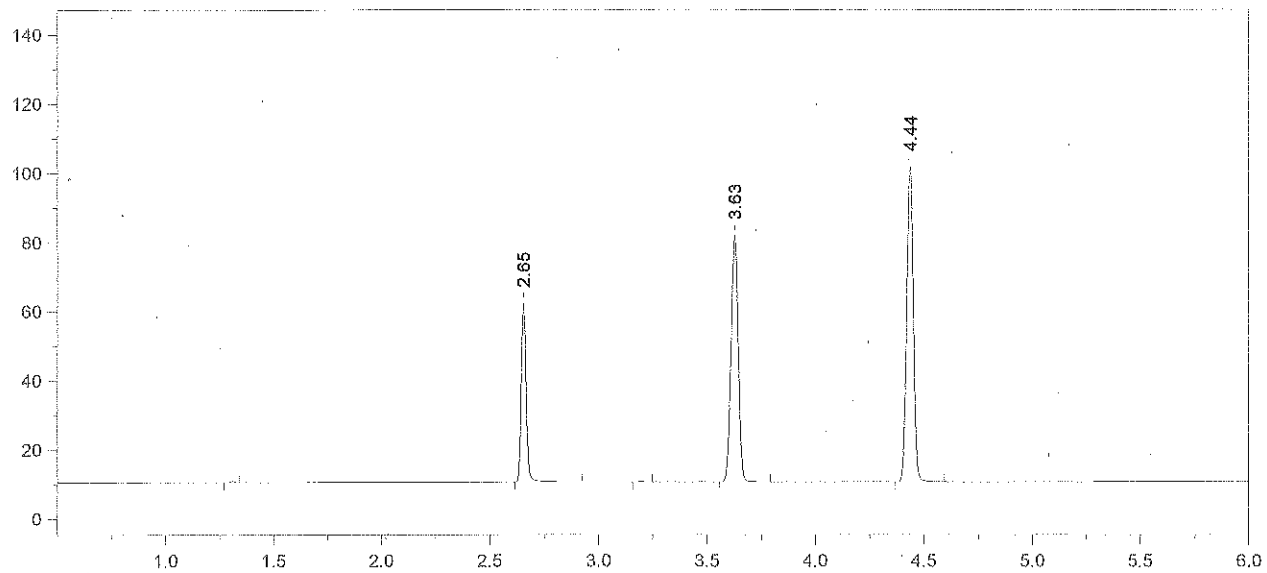


Format File Name = simsolnVFL.met.FMT

Today's Date = 9/16/2014 Today's Time = 10:14:45 AM
Bound File Name = VFL09122014.0034.RAW
Sample Name = 0.1 ALB
Date Taken = 9/12/2014 11:48:47 PM VDH Headspace Alcohol
Method file = simsoln.met
Calibration file = VFL09122014.CAL Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL	Headspace Conversion
2	2.66	Ethanol	124812	0.1204	0.0983
4	3.63	t-Butanol	179298	1.0386	0.8477
5	4.44	n-Propanol	197830	1.0000	0.8162

14-12-100 67



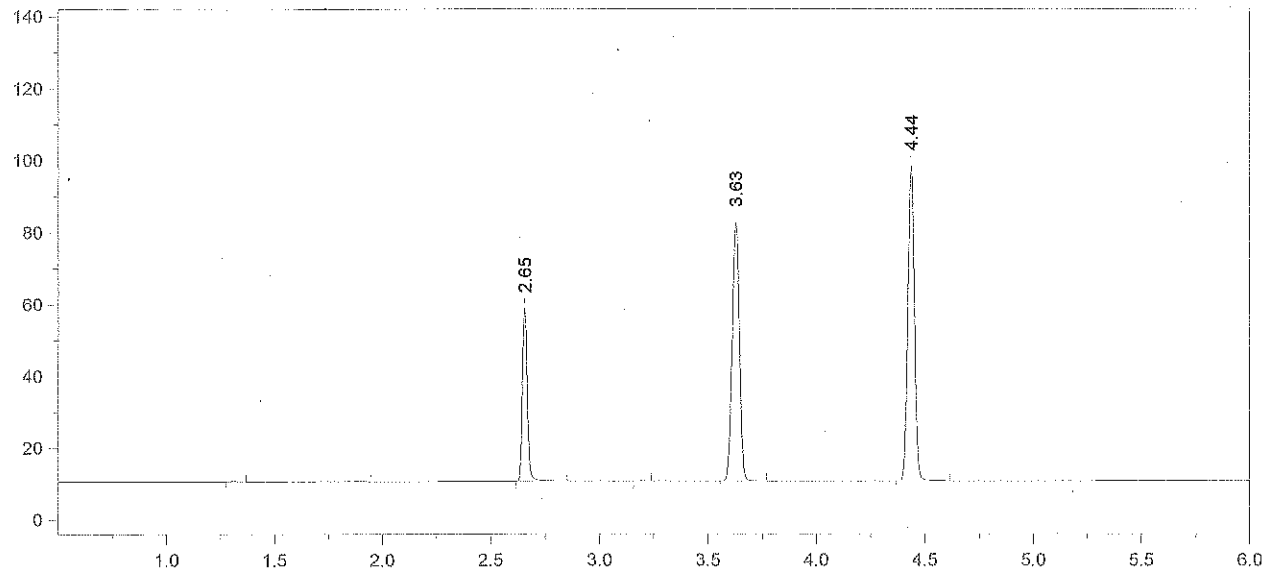
Format File Name = AlcoholVFL.FMT

Today's Date = 9/13/2014
Today's Time = 12:03:56 AM
Bound File Name = VFL09122014.0035.RAW
Sample Name = CCS
Date Taken = 9/13/2014 12:03:45 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	80626	0.0800 *
4	3.63	t-Butanol	164880	0.9824
5	4.44	n-Propanol	192313	1.0000

14-12-100

68



Format File Name = AlcoholVFL.FMT

Today's Date = 9/13/2014
Today's Time = 12:20:31 AM
Bound File Name = VFL09122014.0036.RAW
Sample Name = CCS
Date Taken = 9/13/2014 12:20:21 AM
VFL Headspace Alcohol
Method file = Blood Alc temp VFL.MET
Calibration file = VFL09122014.CAL
Calibration Version = 7

Peak Number	Ret Time (min)	Peak Name	Area	Amount % WT/VOL
2	2.65	Ethanol	75298	0.0777 *
4	3.63	t-Butanol	167235	1.0358
5	4.44	n-Propanol	185019	1.0000

Avg #35 + #36 = 0.079
RM 9/16/14

14-12-100
69
RM