

Date: 3/30/17

Unit Supervisor: Mindy Raines

Initiated By: Allan Kosecki

Trainer: _____

Proficiency Test Error: Analytical Error Other

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1. Have the results and work notes of the examiner having the discrepancy been reviewed by the unit supervisor for compliance with the methods listed in the appropriate procedures manual, as well as all quality control procedures necessary to ensure proper results?

Comments: Yes. Discovered during rework of cases for court proceedings. Laboratory has reviewed/investigated incident thoroughly and turned information over to IA and legal.

2. Was the error administrative or technical and was this error detected in the examiner's notes that would account for the discrepancy? Admin Tech

Comments: Initially this was a technical mistake. The mistake was the "covered up"

3. Has the examiner been removed from casework? Yes No N/A resigned 3/31/17

4. Has the examiner been given remedial training or has a remedial training plan been developed? Yes No N/A

Comments: Examiner had put in resignation with final day to be 3/31/17

5. Has a representative sample of the examiner's casework since the last proficiency exam or case where error was discovered been reviewed for similar errors? Yes No

Comments: All cases analyzed by this examiner will be reworked by Technical leader Dr. Kosecki. A list of cases and memo is attached.

Examiner: Amy Hangan

Date: N/A resigned 3/31/17

Memorandum

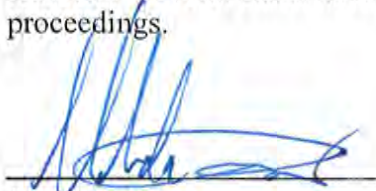
Date: April 25, 2017

To: Kris Cano, Forensic Laboratory Manager

From: Melinda Raines, Quality Assurance Manager

Re: Blood Alcohol re-works for Amy Langan

This memorandum is written to address the laboratory's response regarding the contamination of a blood alcohol sample with n-propanol by Amy Langan. In that particular case Ms. Langan reported the correct result for the case and all investigation actions were documented. In order for the laboratory to ensure no other case samples were contaminated and not reported per laboratory procedure, it is necessary to reanalyze all blood alcohol cases that Ms. Langan analyzed. A list of the cases is attached. Steve Garrett will contact Salt River PD and Paradis Valley PD to request they resubmit samples. All cases will be reanalyzed by the Blood Alcohol Technical Leader, Allan Kosecki. Several cases have already been analyzed by Dr. Kosecki due to court proceedings.



Melinda Raines
Quality Assurance Manager

CaseNumber	AgencyCaseNumber	Sequence	ReportReleaseDate	rerun by AK?
		22-Jul-16	7/28/2016	
		5-Jul-16	7/12/2016	
		3-Nov-16	12/15/2016	
		19-Aug-16	8/24/2016	
		25-Aug-16	9/1/2016	
		25-Aug-16	9/1/2016	
		2-Aug-16	8/5/2016	
		18-Oct-16	10/27/2016	3/20/2017
		18-Oct-16	10/27/2016	
		6-Sep-16	9/14/2016	3/20/2017
		2-Aug-16	8/5/2016	
		12-Jul-16	7/25/2016	
		3-Nov-16	12/15/2016	3/20/2017
		12-Jul-16	7/25/2016	
		27-Jul-16	8/1/2016	
		25-Aug-16	9/1/2016	
		25-Aug-16	9/1/2016	
		25-Aug-16	9/1/2016	
		12-Jul-16	7/25/2016	
		25-Aug-16	9/1/2016	
		2-Aug-16	8/5/2016	
		2-Aug-16	8/5/2016	
		2-Aug-16	8/5/2016	3/20/2017
		2-Aug-16	8/5/2016	3/20/2017
		2-Aug-16	8/5/2016	3/20/2017
		2-Aug-16	8/5/2016	4/17/2017
		2-Aug-16	8/5/2016	4/17/2017
		2-Aug-16	8/5/2016	
		2-Aug-16	8/5/2016	
		2-Aug-16	8/5/2016	4/17/2017
		2-Aug-16	8/5/2016	
		22-Jul-16	7/28/2016	
		2-Aug-16	8/5/2016	
		2-Aug-16	8/5/2016	
		20-Jul-16	7/28/2016	
		20-Jul-16	7/28/2016	
		2-Aug-16	8/5/2016	3/20/2017
		5-Jul-16	7/12/2016	
		12-Jul-16	7/25/2016	
		12-Jul-16	7/25/2016	
		20-Jul-16	7/28/2016	
		5-Jul-16	7/12/2016	
		20-Jul-16	7/28/2016	
		20-Jul-16	7/28/2016	
		20-Jul-16	7/28/2016	
		20-Jul-16	7/28/2016	3/20/2017

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20-Jul-16	7/28/2016	3/20/2017
20-Jul-16	7/28/2016	3/20/2017
20-Jul-16	7/28/2016	
20-Jul-16	7/28/2016	3/20/2017
20-Jul-16	7/28/2016	4/17/2017
20-Jul-16	7/28/2016	
20-Jul-16	7/28/2016	
27-Jul-16	8/1/2016	4/3/2017
27-Jul-16	8/1/2016	
27-Jul-16	8/1/2016	
2-Aug-16	8/5/2016	
5-Jul-16	7/12/2016	
05JUL16;12JUL16	7/25/2016	
05JUL16;12JUL16	7/25/2016	
5-Jul-16	7/12/2016	
5-Jul-16	7/12/2016	
5-Jul-16	7/12/2016	
5-Jul-16	7/12/2016	
5-Jul-16	7/12/2016	
5-Jul-16	7/12/2016	
5-Jul-16	7/12/2016	
5-Jul-16	7/12/2016	
2-Aug-16	8/5/2016	4/17/2017
27-Jul-16	8/1/2016	
27-Jul-16	8/1/2016	3/20/2017
27-Jul-16	8/1/2016	
2-Aug-16	8/5/2016	
2-Aug-16	8/5/2016	
22-Jul-16	7/28/2016	
2-Aug-16	8/5/2016	
27-Jul-16	8/1/2016	
27-Jul-16	8/1/2016	3/20/2017
27-Jul-16	8/1/2016	3/20/2017
12-Jul-16	7/25/2016	
20-Jul-16	7/25/2016	4/17/2017
13-Dec-16	7/25/2016	3/20/2017
12-Jul-16	7/25/2016	
12-Jul-16	7/25/2016	
12-Jul-16	7/25/2016	
12-Jul-16	7/25/2016	
12-Jul-16	7/25/2016	
12-Jul-16	7/25/2016	
27-Jul-16	8/1/2016	
20-Jul-16	7/28/2016	
27-Jul-16	8/1/2016	
27-Jul-16	8/1/2016	

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16-Aug-16	8/23/2016	
27-Jul-16	8/1/2016	
5-Jul-16	7/12/2016	
16-Aug-16	8/23/2016	
27-Jul-16	8/1/2016	3/20/2017
22-Jul-16	7/28/2016	
22-Jul-16	7/28/2016	
22-Jul-16	7/28/2016	
22-Jul-16	7/28/2016	
27-Jul-16	8/1/2016	
27-Jul-16	8/1/2016	
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2-Aug-16	8/5/2016	3/20/2017
22-Jul-16	7/28/2016	
27-Jul-16	8/1/2016	3/20/2017
22-Jul-16	7/28/2016	3/20/2017
27-Jul-16	8/1/2016	
16-Aug-16	8/23/2016	
9-Aug-16	8/22/2016	4/17/2017
16-Aug-16	8/23/2016	3/20/2017
16-Aug-16	8/23/2016	
16-Aug-16	8/23/2016	
9-Aug-16	8/22/2016	
9-Aug-16	8/22/2016	
9-Aug-16	8/22/2016	
9-Aug-16	8/22/2016	
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16-Aug-16	8/23/2016	
9-Aug-16	8/22/2016	
9-Aug-16	8/22/2016	
9-Aug-16	8/22/2016	3/20/2017
16-Aug-16	8/23/2016	
16-Aug-16	8/23/2016	
9-Aug-16	8/22/2016	
9-Aug-16	8/22/2016	

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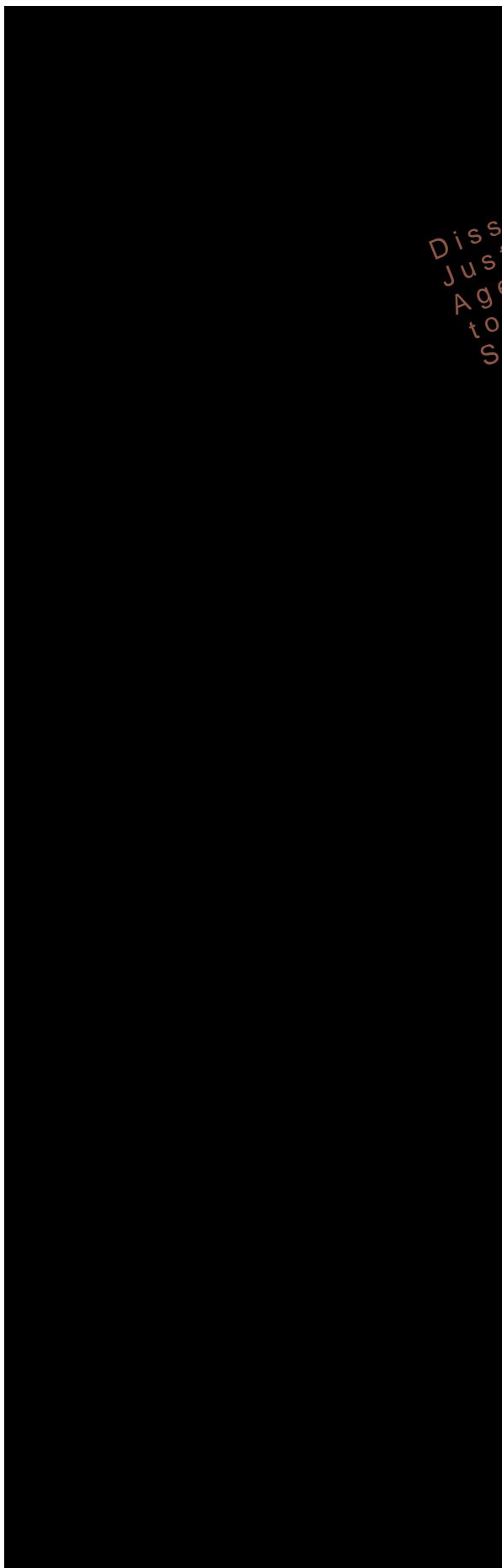
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2-Aug-16	8/5/2016	
2-Aug-16	8/5/2016	
9-Aug-16	8/22/2016	
16-Aug-16	8/23/2016	
16-Aug-16	8/23/2016	
9-Aug-16	8/22/2016	3/20/2017
9-Aug-16	8/22/2016	4/17/2017
2-Aug-16	8/5/2016	
9-Aug-16	8/22/2016	
9-Aug-16	8/22/2016	
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9-Aug-16	8/22/2016	
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9-Aug-16	8/22/2016	
2-Aug-16	8/5/2016	
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19-Aug-16	8/24/2016	

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19-Aug-16	8/24/2016	
19-Aug-16	8/24/2016	
13-Dec-16	12/20/2016	3/20/2017
3-Nov-16	12/15/2016	
25-Aug-16	9/1/2016	
25-Aug-16	9/1/2016	
25-Aug-16	9/1/2016	4/3/2017
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25-Aug-16	9/1/2016	
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13-Sep-16	9/21/2016	

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18-Oct-16	10/27/2016	4/17/2017
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3-Nov-16	12/15/2016	
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3-Nov-16	12/15/2016	4/17/2017
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3-Nov-16	12/15/2016	
3-Nov-16	12/15/2016	
3-Nov-16	12/15/2016	3/20/2017

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3-Nov-16	12/15/2016	
3-Nov-16	12/15/2016	
3-Nov-16	12/15/2016	
3-Nov-16	12/15/2016	
3-Nov-16	12/15/2016	
19-Dec-16	1/3/2017	
19-Dec-16	1/3/2017	
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19-Dec-16	1/3/2017	
19-Dec-16	1/3/2017	
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19-Dec-16	1/3/2017	



13-Dec-16	12/20/2016	
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19-Dec-16	1/3/2017	
13-Dec-16	12/20/2016	

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Forensic Services Division

7601 B East McKellips Road
Scottsdale, AZ 85257

PHONE 480-312-5335
FAX 480-312-5222

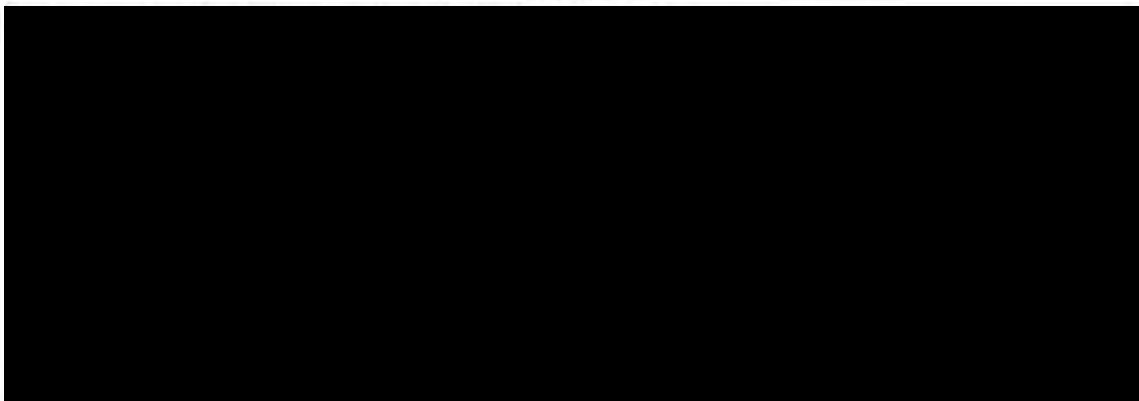
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Scottsdale City Prosecutor

April 25, 2017

Lieutenant Walter Holloway
Salt River Pima-Maricopa Community Police Department
10005 East Osborn
Scottsdale, AZ 85256
Contract Administrator Crime Lab Contract # 2014-141-COS

Lieutenant Holloway,

The Scottsdale Police Department Crime Laboratory is notify your agency that Forensic Scientist Amy Langan no longer works for the Scottsdale Police Department Crime Laboratory and will be unavailable for courtroom testimony on any blood alcohol analyses that she performed on your case samples. The Scottsdale Police Department Crime Laboratory has also determined that there are some discrepancies in her work product that require that any analysis performed by her be reworked. Therefore, we are requesting that the following blood alcohol kits previously analyzed by Amy Langan be returned to the Scottsdale Police Department Crime Laboratory for reanalysis:



Please respond within 14 days with your intent to return these cases for reanalysis to:

Steve Garrett, Police Forensic Services Director
7601B East McKellips Rd
Scottsdale, Arizona 85257
sgarrett@scottsdaleaz.gov

Thank you for your assistance in this matter.



Allen Steve Garrett
Police Forensic Services Director

- cc Jeff Harmon, Salt River Pima-Maricopa Community Chief Prosecutor
- cc Kris Cano, Scottsdale Police Department Crime Laboratory Manager

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Forensic Services Division

7601 B East McKellips Road
Scottsdale, AZ 85257

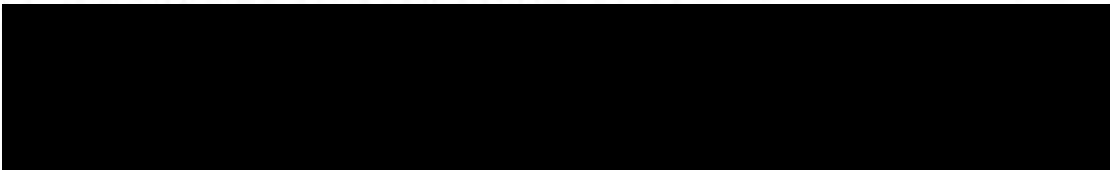
PHONE: 480-312-5335
FAX: 480-312-5222

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April 25, 2017

Chief Peter Wingert
Paradise Valley Police Department
6433 East Lincoln Drive
Paradise Valley, AZ 85253

Chief Wingert,
The Scottsdale Police Department Crime Laboratory is notify your agency that Forensic Scientist Amy Langan no longer works for the Scottsdale Police Department Crime Laboratory and will be unavailable for courtroom testimony on any blood alcohol analyses that she performed on your case samples. The Scottsdale Police Department Crime Laboratory has also determined that there are some discrepancies in her work product that require that any analysis performed by her be reworked. Therefore, we are requesting that the following blood alcohol kits previously analyzed by Amy Langan be returned to the Scottsdale Police Department Crime Laboratory for reanalysis.



This reanalysis will be performed at no cost to the Town of Paradise Valley since these cases were originally submitted under your original contract. Please respond within 14 days with your intent to return these cases for reanalysis to:

Steve Garrett, Police Forensic Services Director
7601B East McKellips Rd
Scottsdale, AZ 85257
sgarrett@scottsdaleaz.gov

Thank you for your assistance in this matter.


Allen Steve Garrett
Police Forensic Services Director

cc Andrew M Miller, Town of Paradise Valley Attorney
cc Kris Cano, Scottsdale Police Department Crime Laboratory Manager

Memorandum

Date: March 30, 2017

To: Mindy Raines, Quality Manager

From: Allan Kosecki, Blood Alcohol Technical Leader

Re: Quality Inquiry - Case Reanalysis Disagreement [REDACTED]

I reanalyzed forty cases previously analyzed by another analyst since that analyst was planning on leaving the country and these cases were still scheduled for trial. For each of the cases that still had two tubes of blood, I analyzed the tube that had not been previously analyzed. The cases were analyzed as batch 22Mar17. While printing my notes, chromatograms, and reports from the LIMS imaging module on March 23, I looked at the results from the original analysis for each case. In one case, [REDACTED] there was a significant difference between the first analysis, 0.136 g/dL, and the reanalysis, 0.090 g/dL. The original analysis was of tube 1. The reanalysis was from tube 2. The notes and chromatograms from the original analysis are in Attachment 1. The notes and chromatograms from the reanalysis are in Attachment 2.

On March 24, I removed the two tubes from the refrigerator in the presence of Mindy Raines who confirmed that they were the two tubes from DR [REDACTED]. As a test to evaluate if I had mixed up tubes in batch 22Mar17, I pipetted two samples from each tube and analyzed the samples using the previous calibration curve. It should be noted that these samples and the internal standard were not allowed to equilibrate to room temperature and no controls were run with these samples. The results from tube 1 were 0.1385 g/dL and 0.1382 g/dL. The results from tube 2 were 0.0951 g/dL and 0.0953 g/dL. The chromatograms from this analysis are in Attachment 3. These results confirm that the results from the original analysis of tubes 1 and 2 were not the result of pipetting blood from the wrong tube into the headspace vials. The ethanol concentration in tube 1 is different than the ethanol concentration in tube 2.

On March 28, two samples from tube 2 were pipetted into headspace vials using 2.5 mL of deionized water as the diluent instead of the internal standard solution. The chromatograms from these two samples indicated the presence of n-propanol (see Attachment 4). Prior to the analysis, Steve Garrett confirmed that the tube taken out for analysis was tube 2 from DR [REDACTED]. Steve also estimated that there was around 7.5 mL of blood in the tube. Note this volume is consistent with having taken four 0.25 mL samples from tube 2 original estimated volume of 9 mL. These volume estimates help to confirm that the addition of n-propanol did not occur during sample handling for analysis in batch 22Mar17.

An Eppendorf pipet was used to transfer 0.25 mL of blood from tube 2 to a headspace vial. The headspace vial with only blood was analyzed and n-propanol was identified in the sample (see Attachment 5). Based on this testing it is clear that the sample in tube 2 was contaminated with n-propanol.

The presence of n-propanol in tube 2 and the difference in ethanol concentration measured between tubes 1 and 2 is consistent with the original analyst having pipetted 2.5 mL of internal standard and 0.25 mL of blood back into the blood tube instead of into the headspace vial. Both analysts' notes indicate a volume of 9 mL in tube 2. If the volume of tube 2 had been 6.5 mL and diluted to 9 mL through the inadvertent addition of 2.5 mL of internal standard solution then the ethanol concentration would have been reduced from 0.136 g/dL to 0.098 g/dL (see attachment 6). If this "diluted" sample was analyzed, the measured result would be further lowered as a result of the additional n-propanol in the blood tube. It is roughly estimated that the combination of dilution and the presence of additional n-propanol would result in a measured concentration of about 0.093 g/dL.

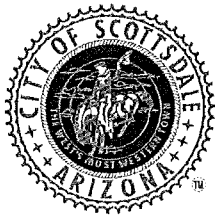
The tube analyzed as tube 1 by the first analyst was closed with transparent tape over the stopper when I opened the kit. In addition, this tube had an estimated volume of 7 mL, consistent with the first analyst's notes. Tube 2 was sealed with red evidence tape when I opened the kit. The estimated volume of tube 2 was 9 mL by both analysts confirming this was tube 2. However, tube 2 was marked 1071752, the item number for tube 1, by the first analyst and tube 1 was not marked with an item number. This marking is consistent with the analyst first designating what is now referred to as tube 2 as the tube that the analyst originally selected as tube 1. The original analyst's notes indicate that one tube was marked "1" and one was marked "2". However, there are no markings of 1 and 2 on the tubes. There is a marking on each tube that appears to be a set of initials. Furthermore, the original analyst's selection of the tube with less volume for analysis is contrary to standard practice.

The data generated as part of this quality inquiry all support that the original analyst started analysis using tube 2 and inadvertently added 2.5 mL of internal standard solution to that tube. After this mistake, the data supports that the analyst changed the designation of tube 1 and tube 2 and completed the analysis on the other tube.

The "blood" in what has been designated as tube 2 and analyzed as item 1071753 is contaminated with n-propanol and is not an appropriate sample. Tube 1 should be reanalyzed as part of a validated run.

ATTACHMENT 1

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Scottsdale Police Department
Crime Laboratory Section
FORENSIC BLOOD ALCOHOL EXAMINATION NOTES



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DR#: [REDACTED]

Requesting Officer: Tiffany Scuderi, #

Lab Number: [REDACTED]

Received From: SPD/# on 07/26/2016

Subject: [REDACTED]

Analyst: Amy Langan
Amy Langan

Date: 08/01/2016

ITEM 1071752: Blood tube

PACKAGE:

Vacutainer

SEALED: Yes

Type: Grey Top

TUBES:

Number of Tubes: 2

Exp. Date: 2016-11

Approximate mls of blood #1: 7 mls
Approximate mls of blood #2: 9 mls

Sealed: Yes

Analysis

Labelled: [REDACTED]
1
CB1278
1/11/16 0145
[REDACTED]

Result #1: 0.1368 g/100ml
Result #2: 0.1360 g/100ml

Results Reported

0.136 +/- 0.007 g/100ml

Notes:

The outer box was sealed and marked with the subject's name and DR number. The inner box was sealed and not marked with the subject's name or DR number. Contained 2 tubes marked 1 & 2, vial 1 was tested. Contains 1 BZK swab, Benzalkonium.

The samples were transferred to vials 23, 24. The samples were analyzed in sequence 02Aug16.

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1071752
Injection date: 8/2/2016 8:29:44 PM	Vial: 23
Method: ethanol quant.M	Sequence: 02Aug16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem3211\Data\02Aug16\23.D	

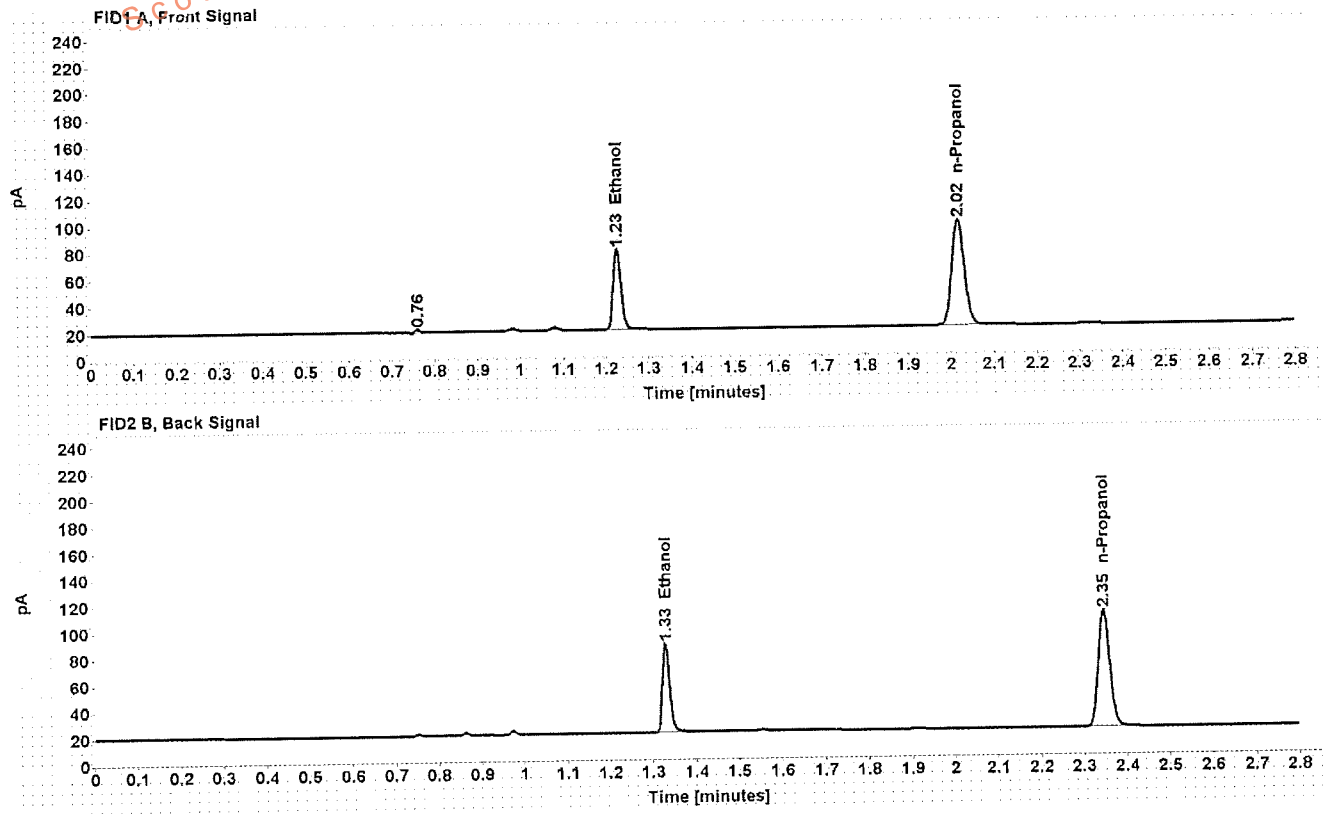


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1368	1.227	77.274
n-Propanol	-----	2.017	161.472

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.329	78.473
n-Propanol	2.346	165.042

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1071752
Injection date: 8/2/2016 8:33:45 PM	Vial: 24
Method: ethanol quant.M	Sequence: 02Aug16
Instrument: US14173023 CN14160045	Analyst: Langan
Data file: C:\Chem3211\Data\02Aug16\24.D	

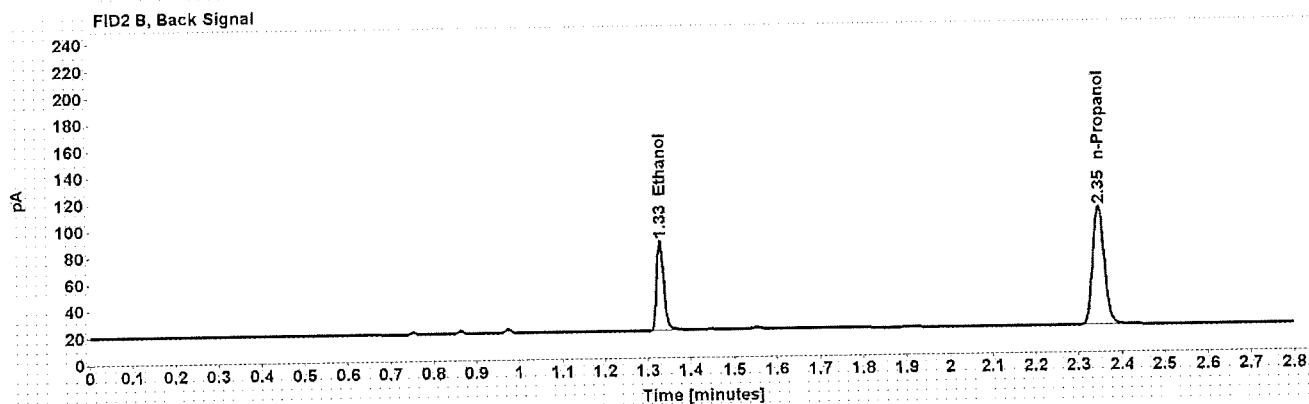
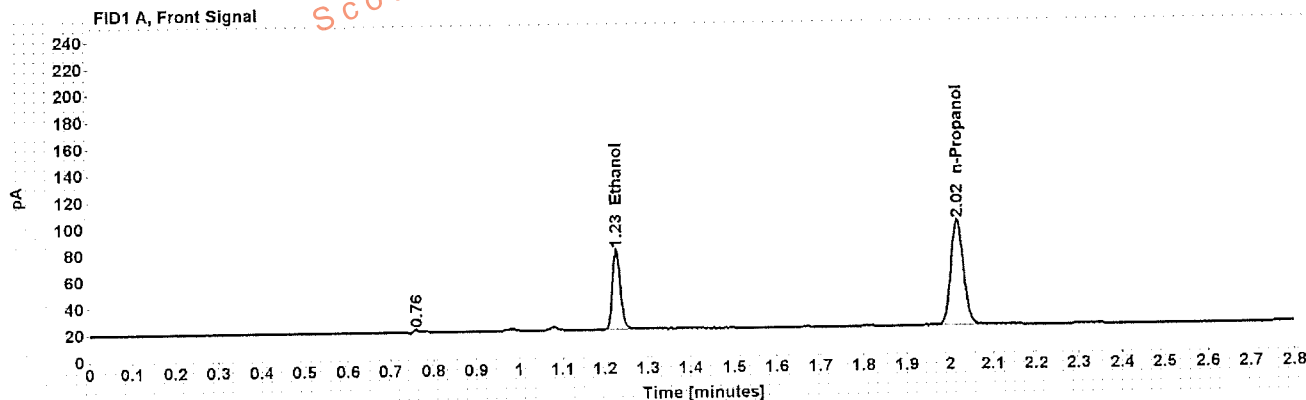


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1360	1.227	77.477
n-Propanol	-----	2.017	162.838

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.329	78.967
n-Propanol	2.346	165.311

ATTACHMENT 2

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Scottsdale Police Department
Crime Laboratory Section
FORENSIC BLOOD ALCOHOL EXAMINATION NOTES



DR#: [REDACTED]
Lab Number: [REDACTED]
Received From: SPD/# on 07/26/2016
Subject: [REDACTED]

Requesting Officer: Tiffany Scuderi, #

Analyst: Patrick Kosecki

Date: 03/21/2017

Patrick Kosecki

ITEM 1071753: Blood tube

PACKAGE:

Vacutainer

SEALED: Yes

Type: Grey Top

TUBES:

Number of Tubes: 2

Exp. Date: 2016-11

Approximate mls of blood #1: 7 mls

Approximate mls of blood #2: 9 mls

Sealed: Yes

Analysis

Labelled: [REDACTED]

Result #1: 0.0908 g/100ml

[initials]

Result #2: 0.0910 g/100ml

CB1278

1/11/16 0145

AL [REDACTED]

Results Reported

0.090 +/- 0.005 g/100ml

Notes:

The outer box was sealed and marked with the subject's name and DR number. The inner box was not sealed. The inner box was marked with the DR number. Benzalkonium chloride swab. Note: incorrect item number on tube.

The samples were transferred to vials 21-22. This case was analyzed as part of sequence 22Mar17. Tube #2 was analyzed. Tube #1 was not sealed (There was unmarked transparent tape over the stopper).

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[REDACTED]	Item number:	1071753
Injection date:	3/22/2017 1:46:26 PM	Vial:	21
Method:	ethanol quant.M	Sequence:	22Mar17
Instrument:	US14173023 CN14160045	Analyst:	Kosecki
Data file:	C:\Chem3211\Data\22Mar17\21.D		

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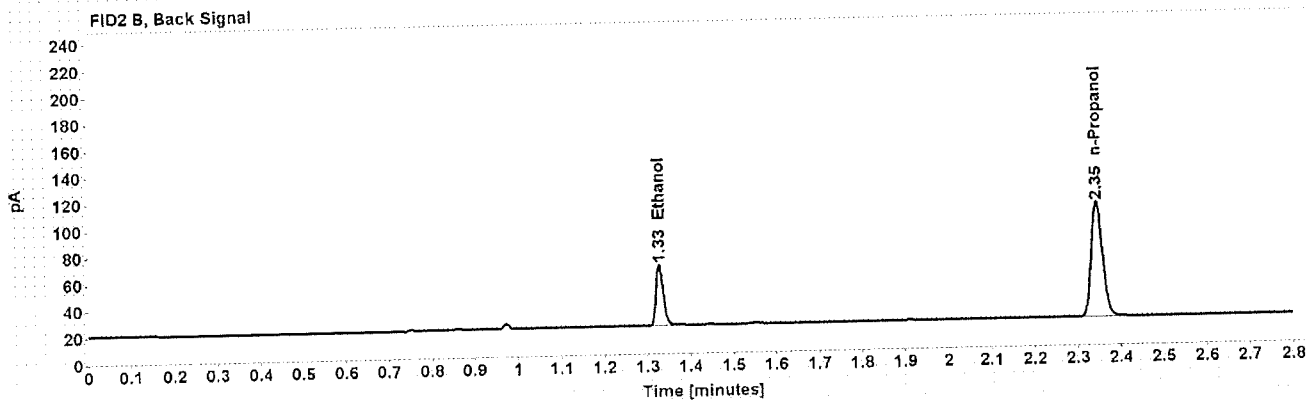
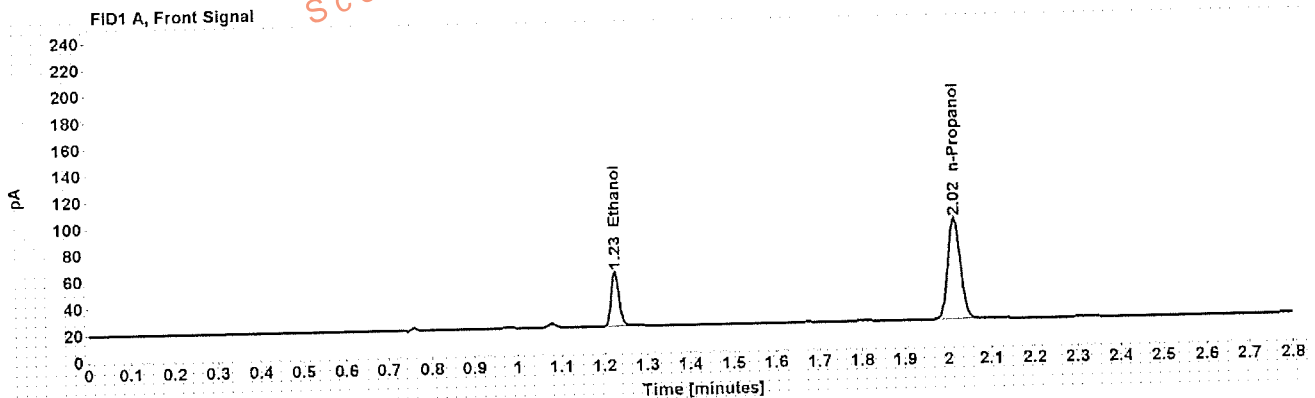


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0908	1.225	52.093
n-Propanol	-----	2.015	154.860

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.329	53.607
n-Propanol	2.346	160.322

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1071753
Injection date: 3/22/2017 1:50:26 PM	Vial: 22
Method: ethanol quant.M	Sequence: 22Mar17
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem32\1\Data\22Mar17\122.D	

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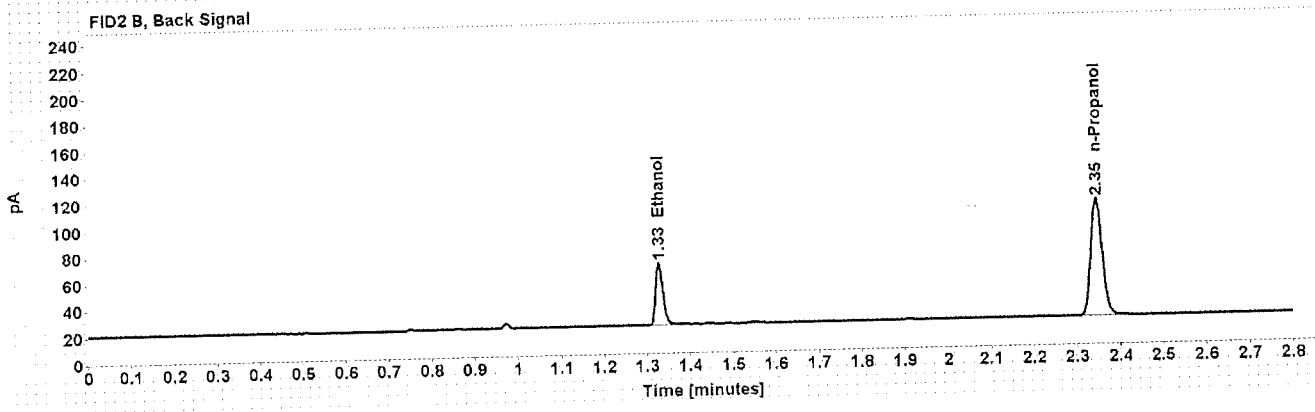
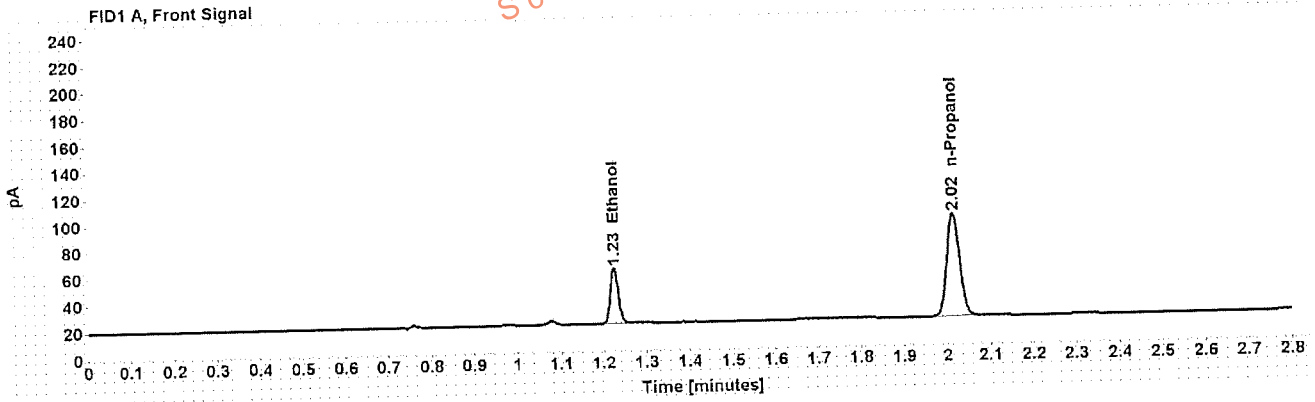


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0910	1.225	53.441
n-Propanol	-----	2.015	158.532

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.329	55.028
n-Propanol	2.346	164.088

ATTACHMENT 3

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Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: tube 2	Item number:
Injection date: 3/24/2017 1:52:53 PM	Vial: 1
Method: ethanol quant.M	Sequence: test
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem3211\Data\sdtest3\test001F0101.D	

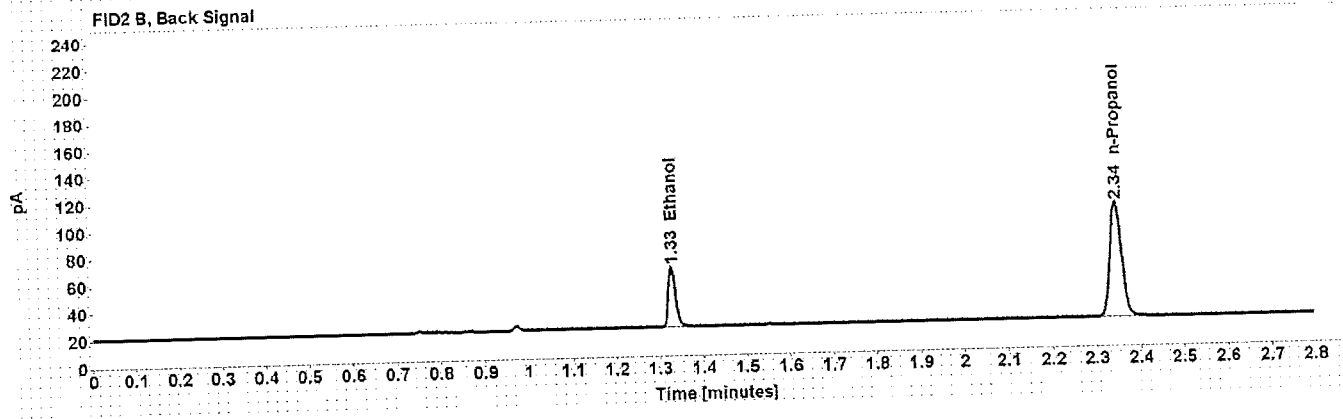
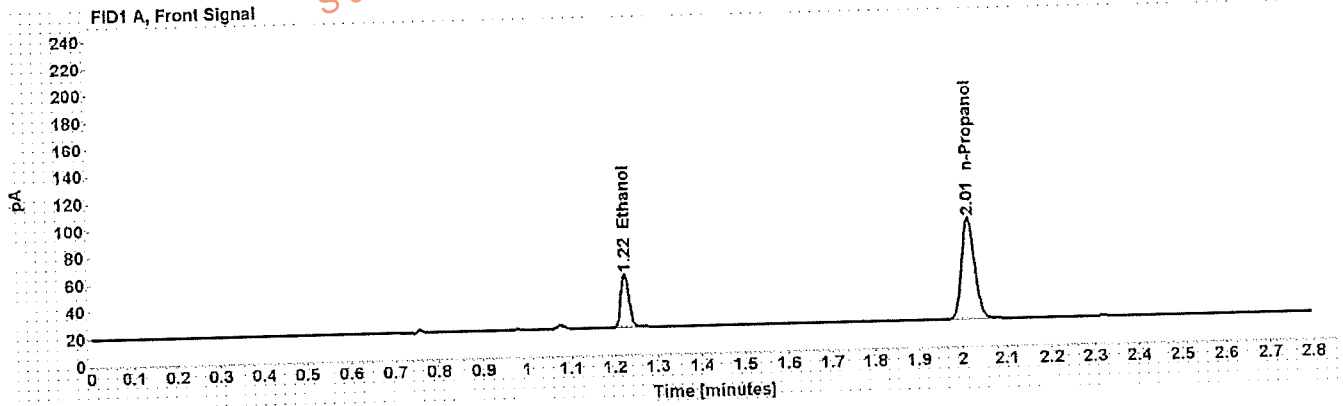


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0953	1.224	50.491
n-Propanol	-----	2.014	153.319

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.327	52.028
n-Propanol	2.345	157.989

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: tube 2	Item number: 2
Injection date: 3/24/2017 1:56:53 PM	Vial: 2
Method: ethanol quant.M	Sequence: test
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem32\1\Data\rsdtest3\test\002F0201.D	

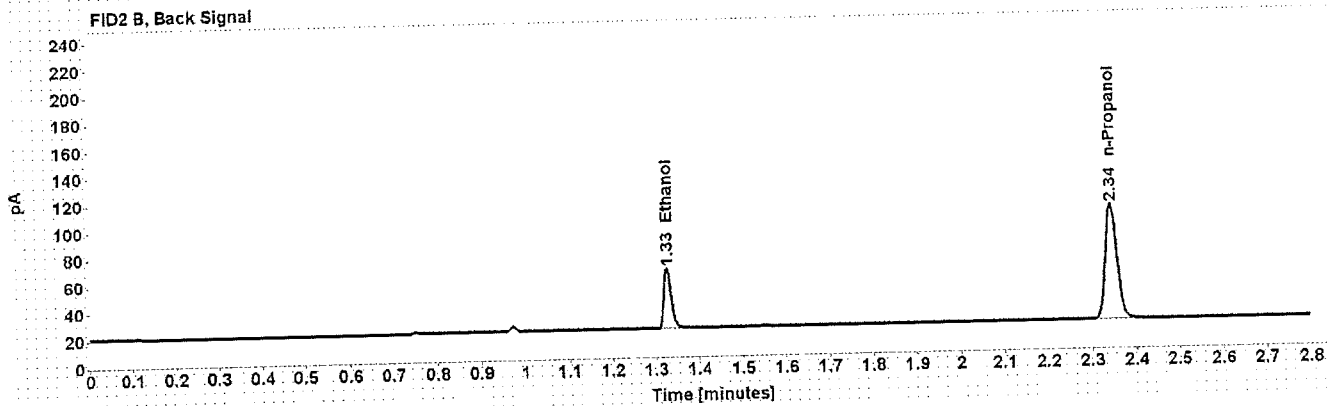
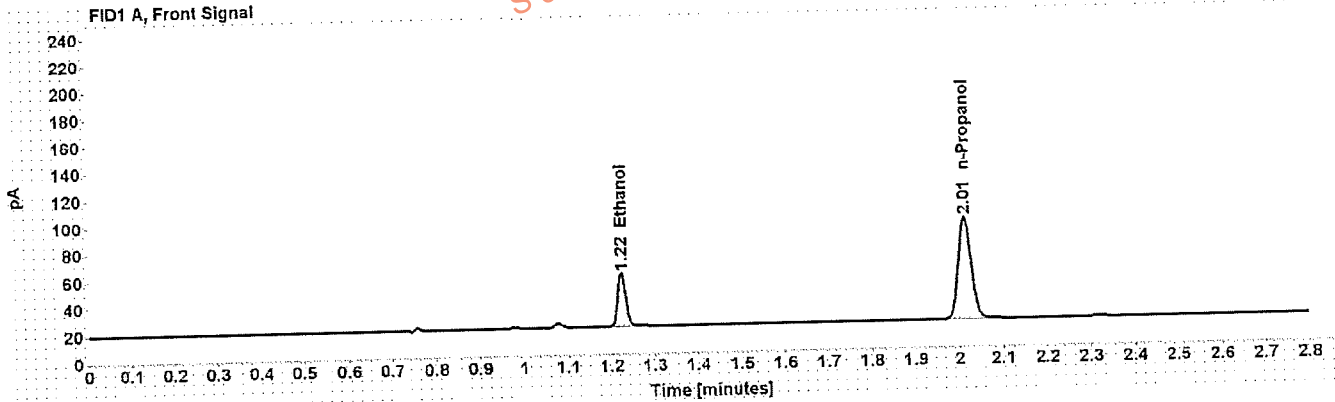


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0951	1.224	50.557
n-Propanol	-----	2.014	153.777

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.327	51.773
n-Propanol	2.344	158.675

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: tube 1	Item number:
Injection date: 3/24/2017 2:00:53 PM	Vial: 3
Method: ethanol quant.M	Sequence: test
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem3211\Data\rsdtest3\test\003F0301.D	

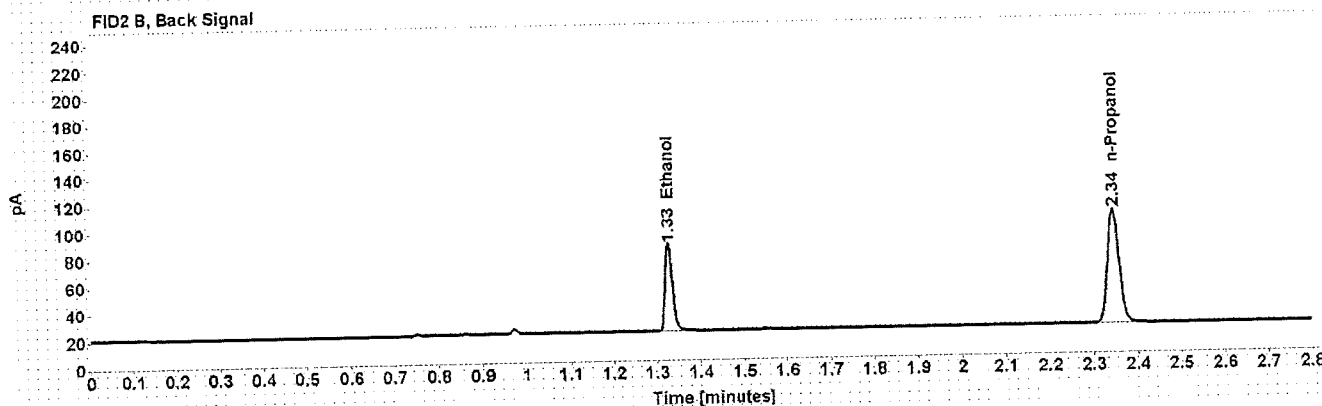
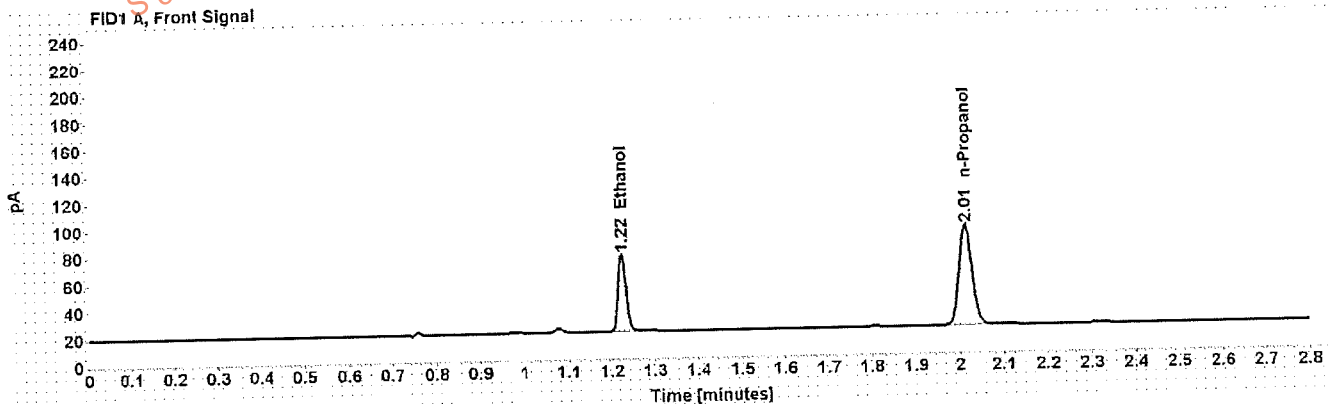


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1385	1.224	72.759
n-Propanol	-----	2.014	151.522

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.327	74.921
n-Propanol	2.345	156.358

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: tube 1	Item number:
Injection date: 3/24/2017 2:04:53 PM	Vial: 4
Method: ethanol quant.M	Sequence: test
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem3211\Data\sdtest3\test004\F0401.D	

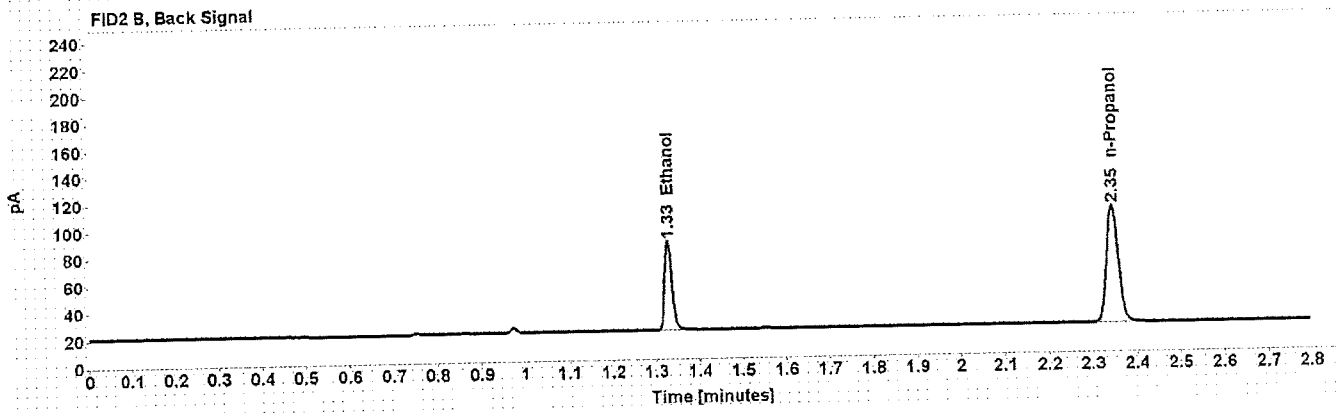
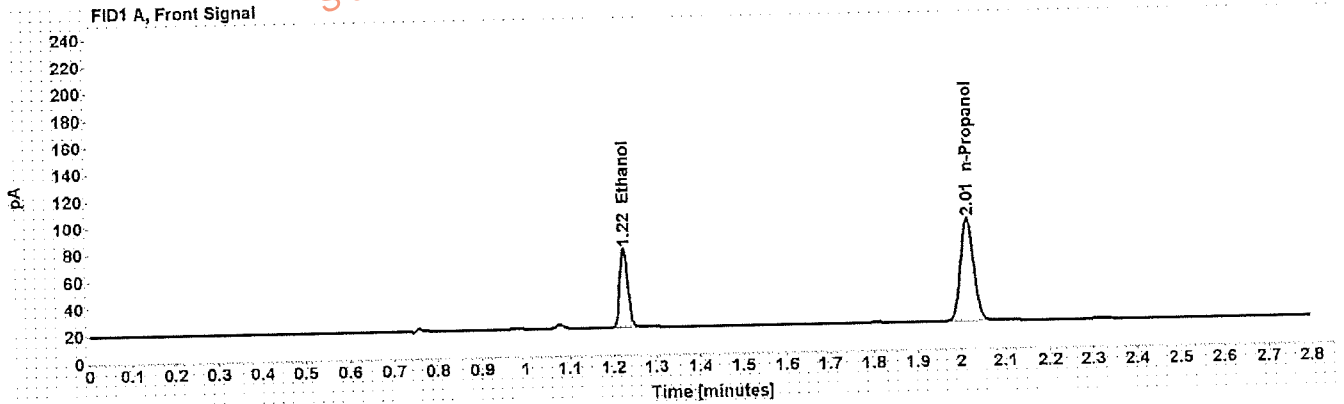


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1382	1.224	74.732
n-Propanol	-----	2.014	155.952

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.328	77.068
n-Propanol	2.345	160.929

ATTACHMENT 4

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Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: tube 2 no IS added	Item number:
Injection date: 3/28/2017 9:37:42 AM	Vial: 1
Method: ethanol quant.M	Sequence: test 1
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem32\11\Data\rsdtest3\test 1\001F0101.D	

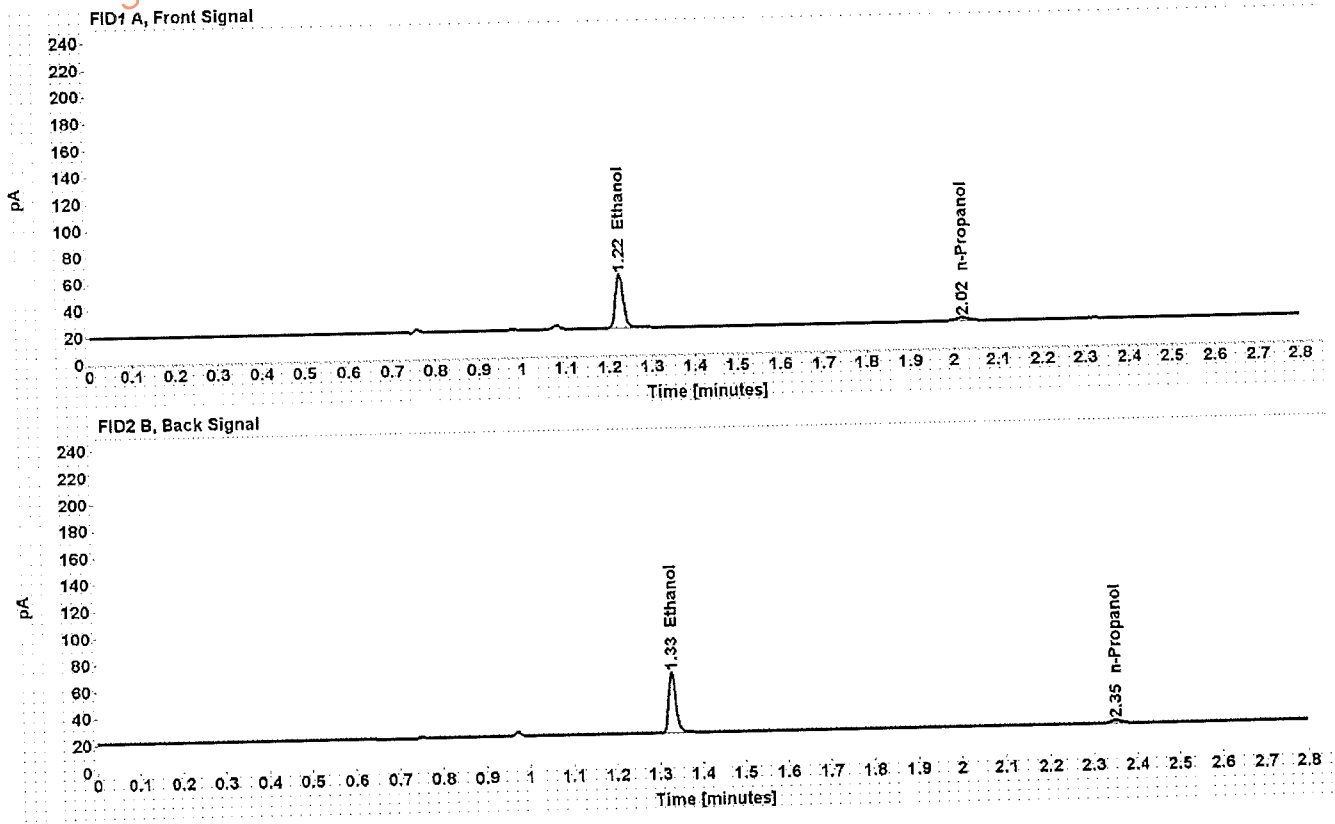


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	3.2232	1.225	51.767
n-Propanol	-----	2.019	4.596

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.328	53.386
n-Propanol	2.351	4.436

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	tube 2 no IS added	Item number:	2
Injection date:	3/28/2017 9:41:42 AM	Vial:	2
Method:	ethanol quant.M	Sequence:	test 1
Instrument:	US14173023 CN14160045	Analyst:	Kosecki
Data file:	C:\Chem32\11\Data\rsdtest3\test_11002F0201.D		

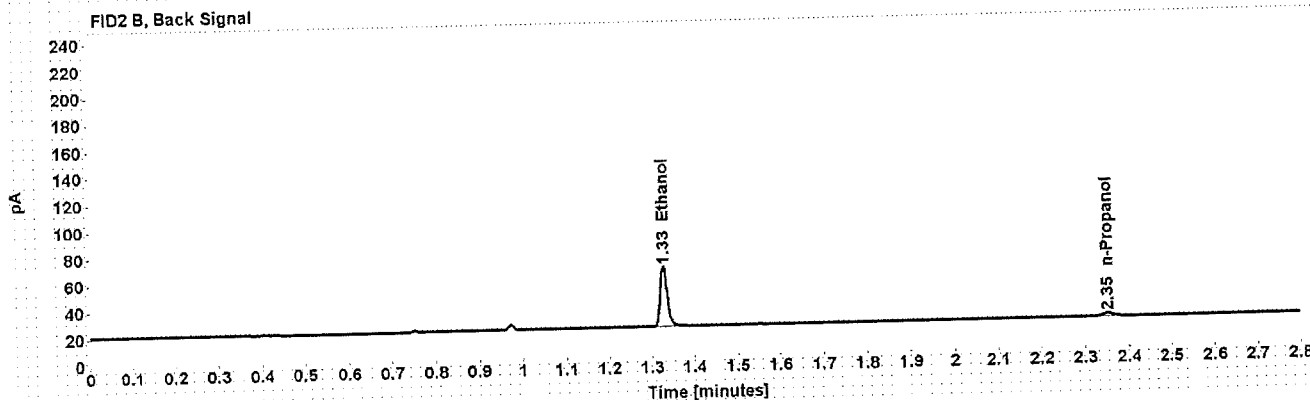
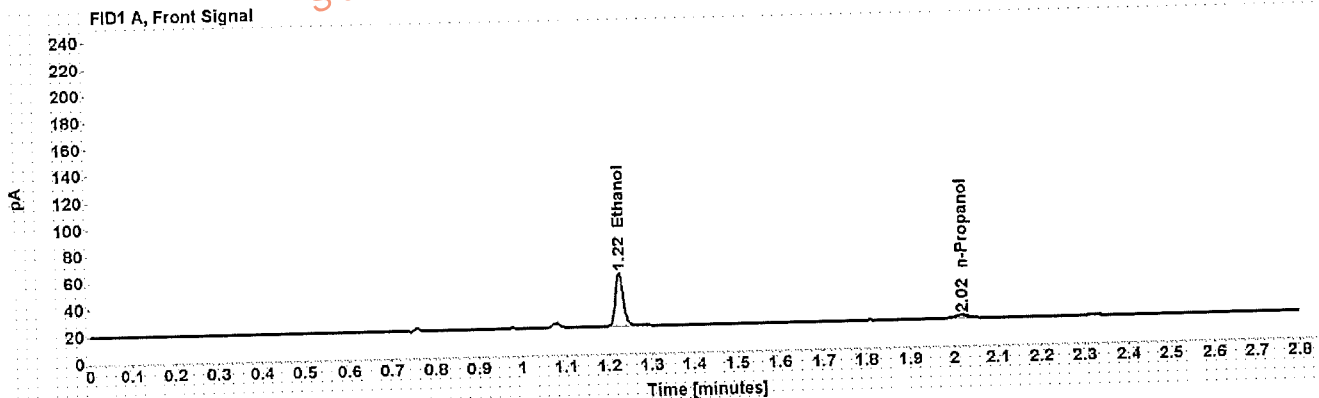


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	3.2354	1.225	51.138
n-Propanol	-----	2.019	4.523

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.328	52.652
n-Propanol	2.351	4.410

ATTACHMENT 5

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Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: tube 2 blood only	Item number:
Injection date: 3/28/2017 1:35:32 PM	Vial: 1
Method: ethanol quant.M	Sequence: test 2
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem3211\Data\rsdtest3\test 2\001F0101.D	

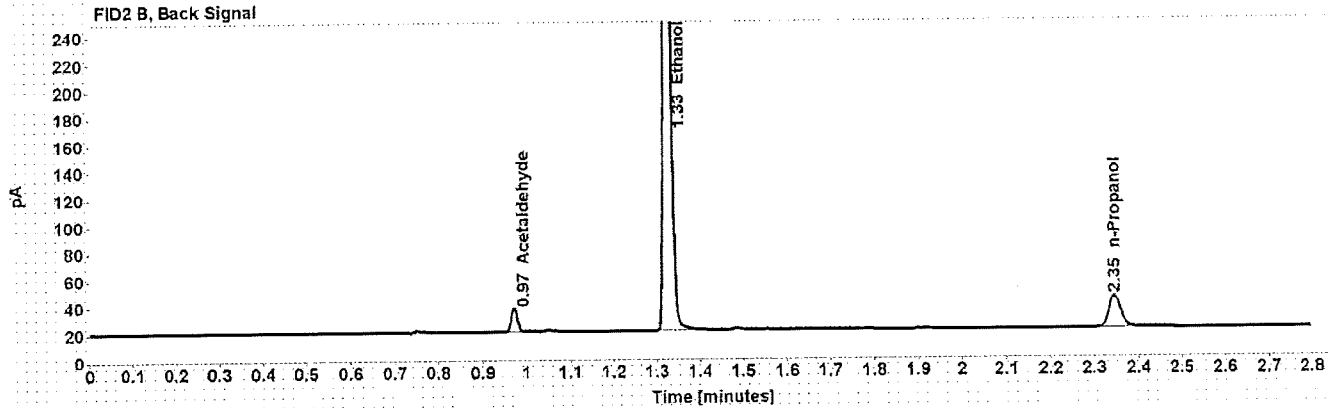
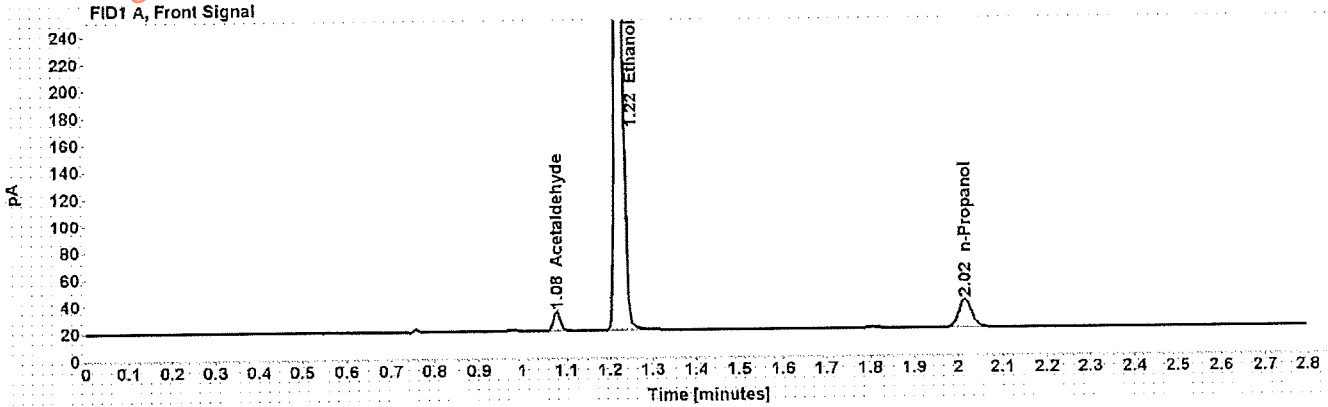


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	15.464
>Ethanol	3.4270	1.223	510.007
n-Propanol	-----	2.015	42.588

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Acetaldehyde	0.972	16.336
Ethanol	1.326	528.541
n-Propanol	2.345	43.417

ATTACHMENT 6

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A normal headspace vial has 2.5 mL of 0.015 g/mL n-propanol

$$(2.5\text{mL}) \times \left(0.015 \frac{\text{g}}{\text{mL}}\right) = 0.0375 \text{ grams of } n\text{-propanol}$$

The area counts on column-A are around 150 -160 for a normal headspace vial

$$\frac{160 \text{ area counts}}{0.0375 \text{ grams } n\text{-propanol}} = 4267 \text{ area counts/gram } n\text{-propanol}$$

Original BAC in tube = 0.136

Volume estimated by both analysts = 9 mL

Assume tube was diluted by 2.5 mL standard if blood plus internal standard was pipetted back into the tube instead of the headspace vial.

Original tube volume would have been 6.5 mL

$$(6.5 \text{ mL}) \times \left(0.136 \frac{\text{g}}{\text{dL}}\right) = (9 \text{ mL}) \times (\text{diluted BAC})$$

Diluted BAC = 0.098 g/dL

This diluted BAC only reflects the effect of dilution. When the BAC of the "blood" in this tube is measured the BAC would be even lower than the estimated diluted BAC due to the effect of the additional n-propanol that would be in the headspace vial.

If 2.5 mL of internal standard was added to the blood tube, this would be equivalent to the addition of 0.0375 grams of n-propanol.

The concentration of n-propanol in the blood tube would be

$$\frac{0.0375 \text{ g } n\text{-propanol}}{9 \text{ mL "blood"}} = 0.0042 \text{ g/mL}$$

If 0.25 mL of this "blood" was pipetted into a headspace vial with 2.5 mL of water, the amount of n-propanol in the headspace vial would be

$$(0.25 \text{ mL blood}) \times \left(0.0042 \frac{\text{g}}{\text{mL}}\right) = 0.001 \text{ grams of } n\text{-propanol}$$

The expected area counts from a headspace vial with 0.001 g n-propanol would be

$$(0.001 \text{ grams}) \times \left(4267 \text{ area } \frac{\text{counts}}{\text{gram}}\right) = 4.267 \text{ area counts}$$

The calibration equation for the original analysis of tube 2 was $y = 3.83929X - 0.001226$. Using this equation, the BAC was recalculated using an adjusted area count for the internal standard. The measured area counts for the internal standard were reduced by 4.44 to account for the n-propanol in the blood tube.

	Ethanol area counts	n-propanol area counts	Adjusted n-propanol area counts	BAC (g/dL)
tube 2 vial 1	52.093	154.860		0.0908
Tube 2 vial 2	53.441	158.532		0.0910
Tube 2 vial 1	52.093		150.420	0.0934
Tube 2 vial 2	53.441		154.092	0.0935

When the assumed original BAC of 0.136 is adjusted for dilution of the blood in the tube by 2.5 mL of internal standard solution in the blood tube, the estimated BAC of 0.098 compares well with the BAC estimated by adjusting the measured BAC to reflect the extra n-propanol in the tube, 0.093-0.094.

Memorandum

To: Kris Cano, Forensic Lab Manager
From: Mindy Raines, Quality Assurance
Date: 4/4/2017
Re: Quality Inquiry Match 30, 2017-Case Reanalysis Disagreement [REDACTED]

On March 17, 2017 an examiner in the blood alcohol unit resigned with their last day being March 31, 2017. In response, the prosecutor's office asked if we would reanalyze cases done by this examiner, still pending in court. As part of the reanalysis the 2nd tube of blood, if available, in each case was analyzed. During the review of results of the second tube in DR [REDACTED] the second examiner noticed there was a discrepancy in the determined ethanol concentration in original tube analyzed and the second tube analyzed. An investigation took place involving the lab manager, division director, sergeant of the officer and phlebotomist, section supervisor and questioning both the first and the second examiner. The results of the investigation determined the tube was contaminated with n-propanol which is used as an internal standard in blood alcohol analysis at the Scottsdale Crime Lab.

After further investigation it was determined that the original analyst deliberately tried to cover up their mistake by changing the evidence and their notes.

The tube of blood that was originally examined will be reanalyzed and the value reported. The second tube of blood value will be reported as inconclusive due to the contamination of n-propanol.

All cases not adjudicated that were analyzed by the original analyst have been requested to be re-run.

All documentation is attached.



Mindy Raines, Quality Assurance

Investigation:

March 24-I was called into work because upon analysis of tube 2 in [redacted] Allan discovered a discrepancy between his value and the original value by Amy.

Many possibilities were looked at but there was no scientific explanation as to why the values would be different. Allan ran both tubes to make sure the values in tube 1 and tube 2 were truly different and he did not mix them up. I observed him pulling the tubes out of the box and confirmed the name on tubes as both being DODDS. The ILEADS reports were looked at and the only possible explanation we could come up with was perhaps a mix up on collection. I reached out to Sgt. Cesareo who was the sergeant over the officer (Burnett) and the phlebotomist (Fellows) to see if he could come down and talk to us.

March 27-Sgt Cesareo came to lab and we looked at OBC footage of the collection. The only abnormality was Fellows hands were in video the entire time and it appeared maybe Burnett swapped out the 2nd tube during the draw. Sgt said he would try to see if we could get video from the jail on that night.

After he left we further investigated and could not see any case close to BAC value at that time or where there could have been a mix up. Because Burnett put the second tube on the blood draw we looked at the stoppers to see if perhaps there was a larger hole explaining alcohol decrease. Nothing appeared wrong with the stoppers even under stereoscope. Allan pointed out the bloods were significantly different in color with the tube he analyzed being much lighter. Because of this and no other reasonable explanation we requested Kris have someone do DNA.

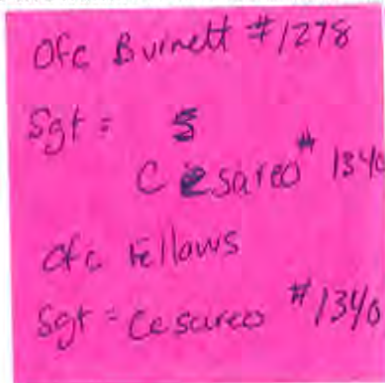
March 28-The DNA came back as the same person. Mr. Garrett, Kris and Allan and I met again and discussed all scenarios. Nothing made sense because the second tube was sealed. After much thought we decided that perhaps the tube was diluted somehow. To investigate Allan ran the tube with the lower concentration with just water. The results showed a small n-propanol peak. To rule out contamination from the water jug, Allan re-ran this blood without any diluent and pipetted it using an Eppendorf. The contamination was confirmed. Allan and Amy were both questioned by Kris and Mr. Garrett. Allan said he did not do this and explained that it would be obvious if someone did this. It would be impossible to do it and not know. Per Kris, when Amy was questioned she said she did not recall doing it.

March 29-I came into work after training and Amy had gone home for the day. Her badge was in my mailbox. I was told she would come in Thursday just to show Will how to do orders. I received a text from Will on Tuesday that he would not return to work until Friday. I texted Amy and told her no need to come in just for Will as he would be out until Friday. I told her I hope she felt better.

April 3-After much thought, in order to rule out a deliberate cover up, I contacted Justice Trax to determine if I could run an audit trail on the blood alcohol notes. After some time I was able to pull the audit trail and show Amy changed her notes the day after she ran the samples (August 1 write up, August 2 run samples, and August 3 change notes).

April 4-Allan and I looked at the blood tubes under the stereoscope because it made no sense that she didn't change tube 1 and 2 designation in notes (notes stated tubes marked 1 and 2). We found that the 1 and 2 had actually been overwritten on the tubes to change the number. Photos taken. This conclusively shows a deliberate attempt to cover up a mistake.

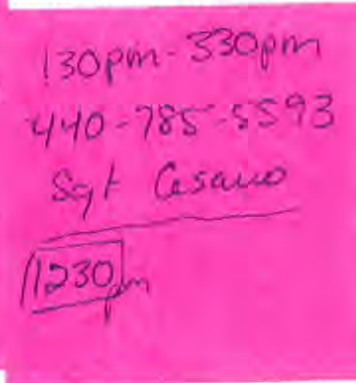
Mer 4/4/17



Ofc Burnett #1278
Sgt = S
C. Cesareo #1340
OFC Fellows
Sgt = Cesareo #1340



OFC Burnett 1278
OFC Fellows
1268
phlebot.



130pm-330pm
440-785-5593
Sgt Cesareo
1230pm

DV Child Abuse Arson Homicide Hate Crime Elderly Gang Related Liquor Est. On-Body Camera

Agency: SPD

Incident / Investigation Report

Case Number: [REDACTED]

DUI-IMPAIRED TO SLIGHTEST DEGREE

Reported 01/11/2016 00:06

Found 01/11/2016 00:06

Occurred 01/11/2016 00:06

Location N 86th St / E Indian School Rd, Scottsdale, AZ

Original Officer (1278) BURNETT, C

Supplement Information

Supplement Page: 1

Date Added: 01/13/2016 02:46:56

Added By: (1268) FELLOWS, D

Supplement Notes

On 01/11/16 at approximately 0006 hours, I was on patrol as a police officer with the City of Scottsdale. On this day I was in a fully marked patrol vehicle in full regulation uniform.

I was requested to provide routine backup to Ofc Burnett #1278, who was on a traffic stop at approximately 8600 E Indian School Rd.

Upon my arrival Ofc Burnett informed me that he needed me to act as a cover officer while he conducted a DUI investigation.

Ofc Burnett brought the driver from the vehicle over to the sidewalk. She was identified as [REDACTED] I acted as a cover officer during this time.

It should be noted that I was wearing an on body camera during this incident. While acting as a cover officer, although I was not evaluating the SFST's, my OBC did record the SFST's. Please refer to the OBC video for further information.

After Ofc Burnett was done administering the SFST's, I administered the PBT to Ruth (since I was carrying the PBT on this day). Ruth blew into the PBT, which returned with a positive reading for the presence of alcohol of .120%BAC.

Ofc Burnett placed Ruth under arrest for DUI. Please refer to his supplement for further information.

I conducted an inventory of the vehicle prior to impound. No items of contraband were located, however several small "one shot" style bottles of liquor were found in her purse and center console area. These bottles were not open.

Ofc Burnett advised me that Ruth was submitting to the specified tests after being read the admin per se/implied consent affidavit. He transported her to the jail and I remained with the vehicle until the tow truck arrived. After the tow arrived I responded to the jail.

Ofc Burnett informed me that Ruth was still submitting to the tests. She was brought to the phlebotomy room.

PHLEBOTOMIST: Fellows 1268

DRAW LOCATION: D2 Jail Phlebotomy Room

DRAW TIME: 0145 hours

PUNCTURE SITE: L-Arm (Butterfly Needle)

AMOUNT DRAWN: 2 Vials of Blood - No issues with the draw

Each tube was handed to Ofc Burnett for impound.

After the deprivation period, Ruth was brought back to the Intoxilyzer room.

INTOXILYZER 8000

DV Child Abuse Arson Homicide Hate Crime Elderly Gang Related Liquor Est. On-Body Camera

Agency: SPD

Incident / Investigation Report

Case Number: [REDACTED]

DUI-IMPAIRED TO SLIGHTEST DEGREE

Reported 01/11/2016 00:06

Found 01/11/2016 00:06

Occurred 01/11/2016 00:06

Location N 86th St / E Indian School Rd, Scottsdale, AZ

Original Officer (1278) BURNETT, C

Supplement Information

Supplement Page: 2

Date Added: 01/13/2016 02:46:56

Added By: (1268) FELLOWS, D

INTOX OPERATOR: Fellows 1268

INTOX LOCATION: D2 Jail Intoxilyzer Room

DEPRIVATION PERIOD: 0100 to 0116 hrs (16 min) - Time from Ofc Burnett's watch.

OPERATIONAL CHECKLIST USED: Yes

PORTABLE RADIO OFF: Yes

RESULT #1: .120*% at 0120 hrs - Time from Intox. This attempt was a deficient sample due to Ruth trying to manipulate the Intoxilyzer.

RESULT #2: .123% at 0124 hrs - Time from Intox.

RESULT #3: .136% at 0130 hrs - Time from Intox.

SUCCESSFULLY COMPLETED TEST SEQUENCE: Yes

It should be noted that I was wearing an OBC during my involvement in this incident. Please refer to the video for further information.

Please see Ofc Burnett's supplement for further information.

This concludes my involvement with this incident at this time.

DV
 Child Abuse
 Arson
 Homicide
 Hate Crime
 Elderly
 Gang Related
 Liquor Est.
 On-Body Camera

Agency: SPD

Incident / Investigation Report

Case Number: [REDACTED]

DUI-IMPAIRED TO SLIGHTEST DEGREE

Reported 01/11/2016 00:06

Found 01/11/2016 00:06

Occurred 01/11/2016 00:06

Location N 86th St / E Indian School Rd, Scottsdale, AZ

Original Officer (1278) BURNETT, C

Original Information

Original Page: 1

Date Added: 01/11/2016

Added By: (1278) BURNETT, C

Charges

1	Charge Type State	Description DUI-IMPAIRED TO SLIGHTEST DEGREE	Statute 28-1381A1	UCR 90D	<input type="checkbox"/> Att <input checked="" type="checkbox"/> Com	
Alcohol, Drugs or Computers Used <input type="checkbox"/> Alcohol <input type="checkbox"/> Drugs <input type="checkbox"/> Computers		Location Type HIGHWAY/ROAD/ALLEY	Premises Entered	Forced Entry <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Weapons 1.	
Entry		Exit	Criminal Activity 2.			
Bias Motivation		Bias Target	Bias Circumstances		Bias Group 3.	
2	Charge Type State	Description DUI-BAC OF .08 OR MORE	Statute 28-1381A2	UCR 90D	<input type="checkbox"/> Att <input checked="" type="checkbox"/> Com	
Alcohol, Drugs or Computers Used <input type="checkbox"/> Alcohol <input type="checkbox"/> Drugs <input type="checkbox"/> Computers		Location Type HIGHWAY/ROAD/ALLEY	Premises Entered	Forced Entry <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Weapons 1.	
Entry		Exit	Criminal Activity 2.			
Bias Motivation		Bias Target	Bias Circumstances		Bias Group 3.	

Status: Cleared By Arrest

Victim Rights? Yes No

CSS Requested? Yes No

DV Child Abuse Arson Homicide Hate Crime Elderly Gang Related Liquor Est. On-Body Camera

Agency: SPD

Incident / Investigation Report

Case Number: [REDACTED]

DUI-IMPAIRED TO SLIGHTEST DEGREE

Reported 01/11/2016 00:06

Found 01/11/2016 00:06

Occurred 01/11/2016 00:06

Location N 86th St / E Indian School Rd, Scottsdale, AZ

Original Officer (1278) BURNETT, C

Original Information

Original Page: 2

Date Added: 01/11/2016

Added By: (1278) BURNETT, C

Notes / Narratives

On 01/11/2016 at 0032 hours [REDACTED] was arrested for DUI at 86th St and Indian School Rd.

On 01/11/2016 at approximately 0006 hours I was on routine patrol in a fully marked patrol car in the area of 78th St and Indian School Rd eastbound. Looking to the east to the intersection of Indian School Rd and Hayden Rd I observed that east and westbound traffic had red lights. I could see that there were two vehicles in the number two lane stopped at the light. As I was approaching the intersection the light for east/westbound traffic turned green. The first vehicle began to move but the rear vehicle stayed stationary. I continued to approach the intersection and after about 15 seconds of the light having turned green the rear car then began to move. I caught up to the vehicle which was a red Mitsubishi Eclipse (AZ [REDACTED]) in the intersection. As the vehicle drove through the intersection it began to drift to the left. I thought that maybe it was going to just change lanes but it continued to drift and then straddle the center dashed lane lines from the intersection all the way to just west of 81st St where the vehicle drifted back into lane two and continued to drift into the designated bike lane. The vehicle continued driving in the bike lane with its passenger side tires riding down the middle of the bike lane from 81st St to just west of 82nd St where the vehicle had to slow for a red light.

Before the vehicle came to a complete stop, the light turned green and the vehicle continued to drive eastbound, driving the speed limit. I continued to follow the vehicle having made the decision to make a traffic stop on the vehicle but planning to stop the vehicle at Granite Reef Rd. As the vehicle continued to drive eastbound it weaved slowly inside its lane. At 83rd St I initiated a traffic stop, utilizing all of my emergency lights. The vehicle continued in the same direction not giving any indication it was going to stop but not evading me. We passed Granite Reef Rd and continued past multiple stop locations. At 85th St the vehicle gave its first indication that it was going to stop by activating its brakes and slowing some. This driving behavior continued as the vehicle erratically braked and slowed until it finally came to stop in the right hand turn lane at 86th St.

I exited my patrol vehicle and made a driver side approach to the vehicle. Once at the driver side door I observed that there was a single occupant, the driver who was a female subject. The window was still rolled up and the vehicle was still in drive as I could see the gear shifter. I knocked on the window and the female subject turned and looked up at me. Based on my training and professional experience the driver had the appearance of being intoxicated. I identified myself and asked the driver to roll down the window but she opened the door instead. I asked her to put the vehicle into park and she did so clumsily causing the vehicle to jerk forward. The area of the traffic stop and subsequent investigation was:

CONDITIONS:

TRAFFIC: Light

WEATHER: Clear

ROADWAY: Dry

DV Child Abuse Arson Homicide Hate Crime Elderly Gang Related Liquor Est. On-Body Camera

Agency: SPD

Incident / Investigation Report

Case Number: 16-00804

DUI-IMPAIRED TO SLIGHTEST DEGREE

Reported 01/11/2016 00:06

Found 01/11/2016 00:06

Occurred 01/11/2016 00:06

Location N 86th St / E Indian School Rd, Scottsdale, AZ

Original Officer (1278) BURNETT, C

Original Information

Original Page: 3

Date Added: 01/11/2016

Added By: (1278) BURNETT, C

Notes / Narratives

HAZARDS: None

PASSENGER(S): None

I asked the driver for her driver license, vehicle registration and proof of insurance. She clumsily fumbled in her wallet to get her driver license and had to search through multiple papers to find her registration. Her Arizona driver license with photo identified her as [REDACTED]. I later conducted a check by MDC of [REDACTED]'s registration and driver's license status:

REGISTRATION: Valid

DRIVERS LICENSE: Valid

INSURANCE: No proof of insurance

While speaking with [REDACTED] I observed the following:

SPEECH: Slurred, Thick, Slow

COLOR OF FACE: Normal color but she had a tired, droopy expression

EYES: Watery and Bloodshot, Distant Gaze

ODOR OF INTOXICATING LIQUOR: Yes

ADMISSION OF ALCOHOL CONSUMPTION: Yes (she stated when asked if she had consumed any alcohol that evening that she had "one glass of wine." When asked how large a glass she consumed she lifted her left hand and separated her index finger and thumb approximately an inch and said "this big.")

After conducting my records checks and upon the arrival of my back up I made contact with [REDACTED] again and asked her to step out of her vehicle and walk over to the sidewalk with me. Once on the side walk I began the Standardized Field Sobriety Tests (SFSTs) with Horizontal Gaze Nystagmus. I asked [REDACTED] the preliminary questions. She did not have any recent head/eye injuries. She was not wearing contact lenses or glasses. She did not advise me of any other injuries, illnesses or issues. She stated that she was not taking any prescription medication or illegal drugs and had only consumed alcohol.

The area where the SFSTs were performed was flat, dry, and free of debris in her path. There were only leaves on the ground that I had brushed them out of the way of [REDACTED]. The streetlights, patrol vehicle spot lights, and my flashlight were used to illuminate the ground. The emergency lights from all patrol vehicles were turned off so they were not in view of him during the tests.

The requested SFSTs were explained and demonstrated prior to [REDACTED] beginning. The following results were recorded on the

DV Child Abuse Arson Homicide Hate Crime Elderly Gang Related Liquor Est. On-Body Camera

Agency: SPD

Incident / Investigation Report Case Number: [REDACTED]
DUI-IMPAIRED TO SLIGHTEST DEGREE

Reported 01/11/2016 00:06

Found 01/11/2016 00:06

Occurred 01/11/2016 00:06

Location N 86th St / E Indian School Rd, Scottsdale, AZ

Original Officer (1278) BURNETT, C

Original Information

Original Page: 4

Date Added: 01/11/2016

Added By: (1278) BURNETT, C

Notes / Narratives

Alcohol Influence Report (AIR).

HORIZONTAL GAZE NYSTAGMUS: 6 out of 6 Clues Vertical Nystagmus: Yes

Conducted by: Officer Burnett #1278 (Certified)

[REDACTED] had difficulty keeping her head still and kept trying to anticipate my movements of the stimulus.

WALK AND TURN: 6 out of 8 Clues (Walked like normal down the line)

ONE-LEG STAND: 4 out of 4 Clues

PRELIMINARY BREATH TEST (PBT): .120% @ 0032 hours

At 0032 hours, I placed [REDACTED] under arrest for Driving Under the Influence of Alcohol. She was handcuffed to the rear and the cuffs were double locked after a fit test. A search incident to arrest yielded negative results. I then secured her in the backseat of my patrol vehicle seat belted in.

Per Arizona Revised Statute ARS 28-872, the vehicle was impounded by All City Towing and a Vehicle Impound Supplement was completed. A copy of the Vehicle Impound Supplement was placed in [REDACTED]'s property.

At 0033 hours, I read [REDACTED] the information from a standard Admin Per Se/Implied Consent Affidavit. [REDACTED] said she understood what I had read and would do the specified tests. I transported [REDACTED] to the District 2 Jail.

After initial booking, [REDACTED] was placed in the phone room to begin the deprivation period while I waited for Officer Fellows (1268) to arrive at the jail from my traffic stop to conduct the blood draw and Intoxilyzer. The deprivation period was from 0100 to 0116 hours. [REDACTED] was then brought to Intoxilyzer 800 room where Officer Fellows conducted the test.

INTOXILYZER

INTOX OPERATOR: Fellows 1268

INTOX LOCATION: D2 Jail Intoxilyzer Room

DEPRIVATION PERIOD: 0100 to 0116 hrs (16 min) - Time from Ofc Burnett's watch.

OPERATIONAL CHECKLIST USED: Yes

PORTABLE RADIO OFF: Yes

RESULT #1: .120*% at 0120 hrs - Time from Intox. This attempt was a deficient sample due to [REDACTED] trying to manipulate the Intoxilyzer.

RESULT #2: .123% at 0124 hrs - Time from Intox.

RESULT #3: .136% at 0130 hrs - Time from Intox.

SUCCESSFULLY COMPLETED TEST SEQUENCE: Yes

DV Child Abuse Arson Homicide Hate Crime Elderly Gang Related Liquor Est. On-Body Camera

Agency: SPD

Incident / Investigation Report

Case Number: [REDACTED]

DUI-IMPAIRED TO SLIGHTEST DEGREE

Reported 01/11/2016 00:06

Found 01/11/2016 00:06

Occurred 01/11/2016 00:06

Location N 86th St/ E Indian School Rd, Scottsdale, AZ

Original Officer (1278) BURNETT, C

Original Information

Original Page: 5

Date Added: 01/11/2016

Added By: (1278) BURNETT, C

Notes / Narratives

[REDACTED] was then taken to the phlebotomy room where I then witnessed Officer Fellows draw two grey top tubes from a standard untampered blood collection kit and the entire procedure was done in accordance with department policy and procedure.

BLOOD DRAW

PHLEBOTOMIST: Fellows 1268

DRAW LOCATION: D2 Jail Phlebotomy Room

DRAW TIME: 0145 hours

PUNCTURE SITE: L-Arm

AMOUNT DRAWN: 2 Vials of Blood

I inverted each tube 10 times and verified visually that there was a proper mixture between the preservative/anticoagulant and the blood. I then properly sealed/labeled each vial and secured it in the blood collection kit. See Officer Fellows' Blood Draw Report for further information. The blood collection kit was later impounded in the secure evidence refrigerator at the District 2 Station.

I then explained the Blood Destruction Notice to [REDACTED] and allowed her to read the form. She signed the form and the pink copy was included in her property and given to her upon release.

I then served [REDACTED] with the order of suspension. [REDACTED] signed for her temporary driver's permit. The pink and yellow copies were placed in her property and given to her upon her release. Her Arizona driver license was attached to the Admin Per Se and sent to MVD.

[REDACTED] was advised her Miranda rights but she did not want to answer any questions.

[REDACTED] was booked and released on all charges:

"ARS 28-1381.A1 DUI-Impaired to the slightest degree

"ARS 28-1381.A2 DUI-BAC of .08 or more

"Other civil traffic violations

This concludes my involvement in the case.

NFI.

DV Child Abuse Arson Homicide Hate Crime Elderly Gang Related Liquor Est. On-Body Camera

Agency: SPD

Incident / Investigation Report

Case Number: [REDACTED]



DUI-IMPAIRED TO SLIGHTEST DEGREE

Reported 01/11/2016 00:06

Found 01/11/2016 00:06

Occurred 01/11/2016 00:06

Location N 86th St / E Indian School Rd, Scottsdale, AZ

Original Officer (1278) BURNETT, C

Original Information

Original Page: 6

Date Added: 01/11/2016

Added By: (1278) BURNETT, C



Scottsdale Police Department
Crime Laboratory Section
FORENSIC BLOOD ALCOHOL EXAMINATION NOTES



Dissemination is restricted to Criminal Justice Agencies and authorized personnel only. Secondary dissemination to unauthorized agencies is prohibited. Scottsdale City Prosecutor

DR#: [REDACTED]

Requesting Officer: Tiffany Scuderi, #

Lab Number: [REDACTED]

Received From: SPD/# on 07/26/2016

Subject: [REDACTED]

Analyst: Patrick Kosecki

Date: 03/21/2017

ITEM 1071753: Blood tube

PACKAGE:

Vacutainer

SEALED: Yes

Type: Grey Top

TUBES:

Exp. Date: 2016-11

Number of Tubes: 2

Approximate mls of blood #1: 7 mls

Approximate mls of blood #2: 9 mls

Sealed: Yes

Analysis

Labelled: [REDACTED]

Result #1: 0.0908 g/100ml

[initials]

Result #2: 0.0910 g/100ml

CB1278

1/11/16 0145

[REDACTED]

Results Reported

0.090 +/- 0.005 g/100ml

Notes:

The outer box was sealed and marked with the subject's name and DR number. The inner box was not sealed. The inner box was marked with the DR number. Benzalkonium chloride swab. Note: incorrect item number on tube.

The samples were transferred to vials 21-22. This case was analyzed as part of sequence 22Mar17. Tube #2 was analyzed. Tube #1 was not sealed (There was unmarked transparent tape over the stopper).



Scottsdale Police Department
Crime Laboratory Section

FORENSIC BLOOD ALCOHOL EXAMINATION NOTES



DR#: [REDACTED]
Lab Number: [REDACTED]
Received From: SPD/# on 07/26/2016
Subject: [REDACTED]

Requesting Officer: Tiffany Scuderi, #

Analyst: Amy Langan
Amy Langan

Date: 08/01/2016

ITEM 1071752: Blood tube

PACKAGE:

Vacutainer
SEALED: Yes

Type: Grey Top

TUBES:

Number of Tubes: 2
Approximate mls of blood #1: 7 mls
Approximate mls of blood #2: 9 mls
Sealed: Yes

Exp. Date: 2016-11

Analysis

Labelled: [REDACTED]
CB1278
1/11/16 0145
[REDACTED]

Result #1: 0.1368 g/100ml
Result #2: 0.1360 g/100ml

Results Reported

0.136 +/- 0.007 g/100ml

Notes:

The outer box was sealed and marked with the subject's name and DR number. The inner box was sealed and not marked with the subject's name or DR number. Contained 2 tubes marked 1 & 2, vial 1 was tested. Contains 1 BZK swab, Benzalkonium.

The samples were transferred to vials 23, 24. The samples were analyzed in sequence 02Aug16.

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: tube 2 blood only	Item number:
Injection date: 3/28/2017 1:35:32 PM	Vial: 1
Method: ethanol quant.M	Sequence: test 2
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem3211\Data\sdtest3\test 2\001F0101.D	

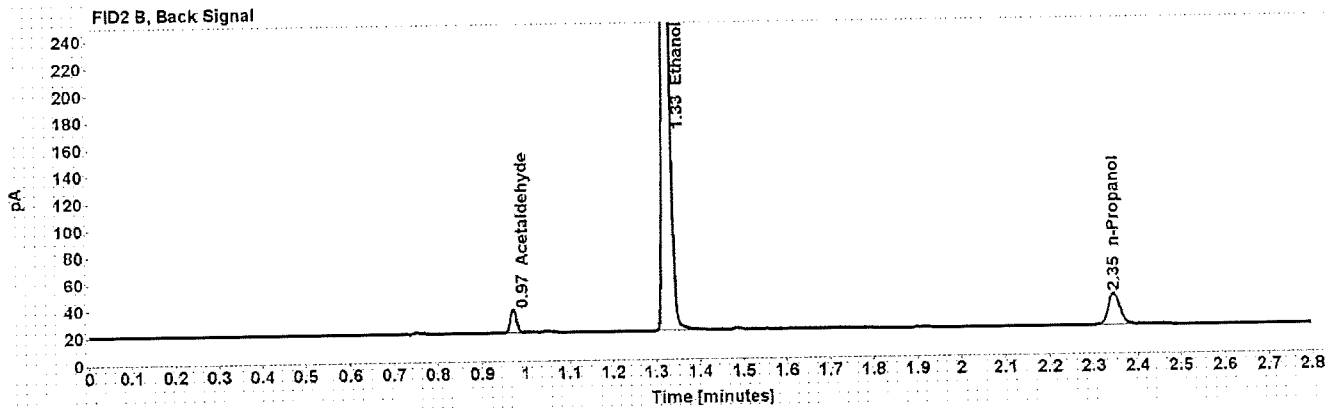
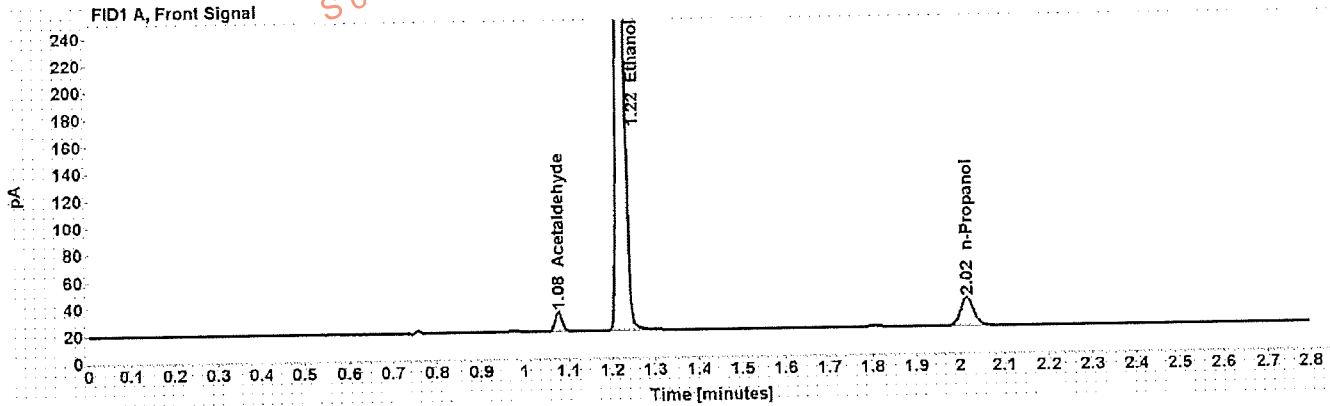


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.077	15.464
>Ethanol	3.4270	1.223	510.007
n-Propanol	-----	2.015	42.588

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Acetaldehyde	0.972	16.336
Ethanol	1.326	528.541
n-Propanol	2.345	43.417

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: tube 1	Item number:
Injection date: 3/24/2017 2:00:53 PM	Vial: 3
Method: ethanol quant.M	Sequence: test
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem32\1\Data\rsdtest3\test\003F0301.D	

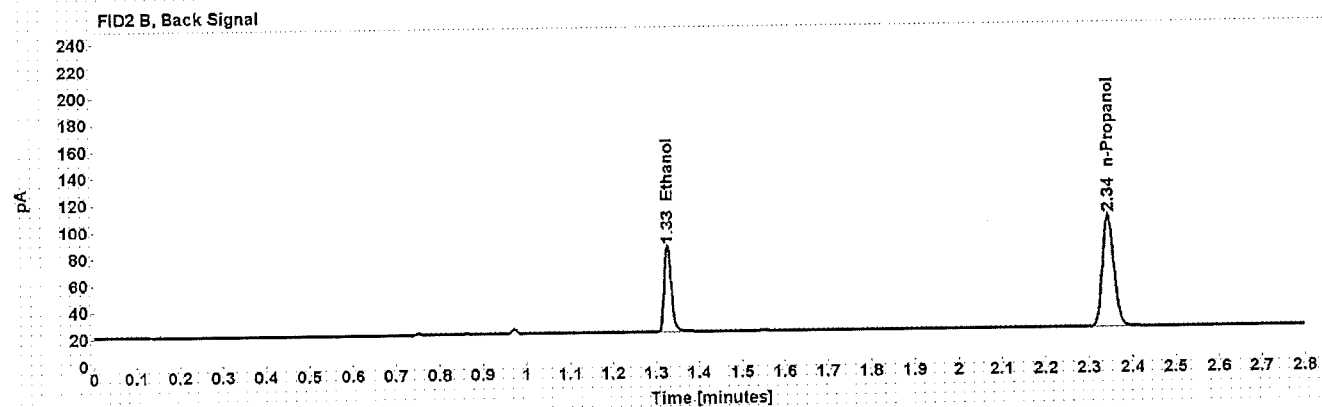
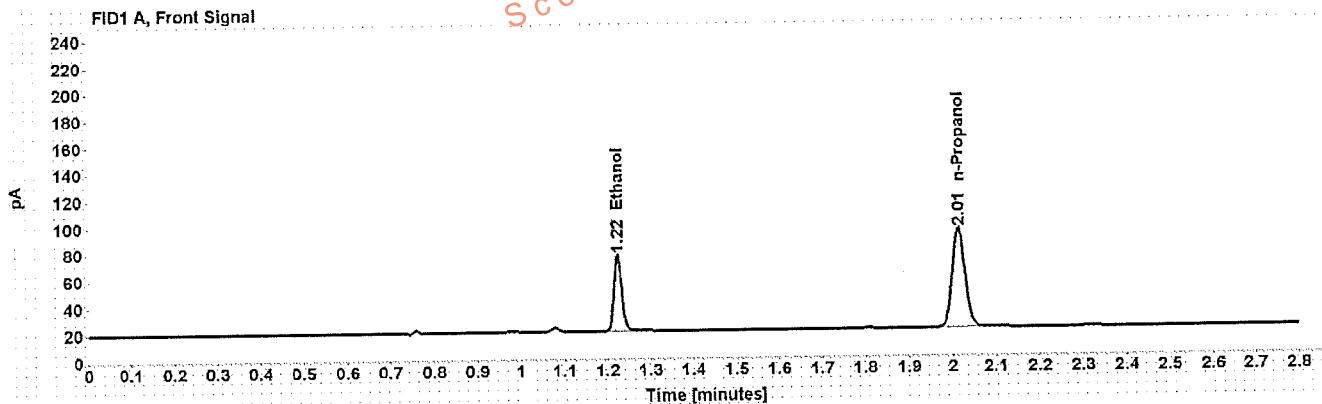


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1385	1.224	72.759
n-Propanol	-----	2.014	151.522

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.327	74.921
n-Propanol	2.345	156.358

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: tube 1	Item number:
Injection date: 3/24/2017 2:04:53 PM	Vial: 4
Method: ethanol quant.M	Sequence: test
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem3211\Data\vsdtest3\test\004F0401.D	

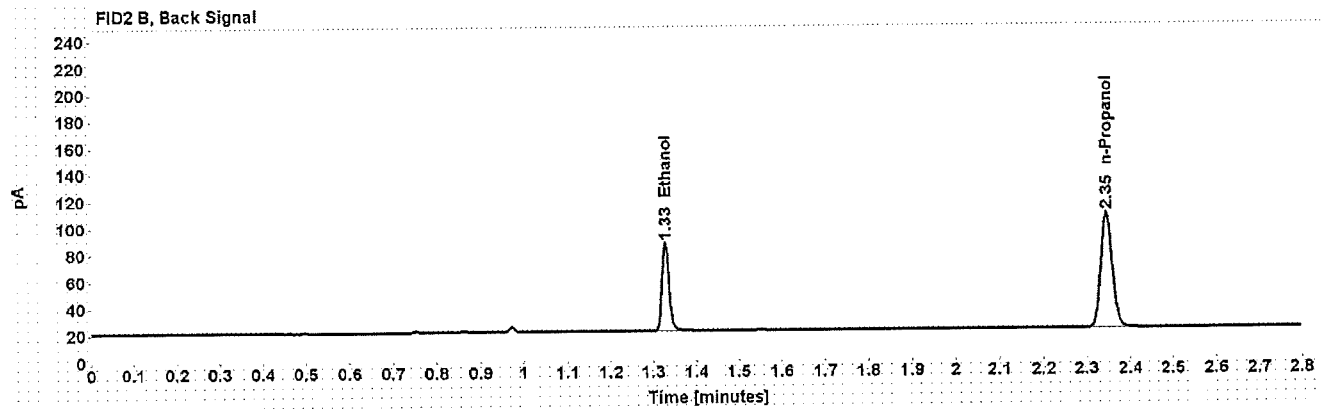
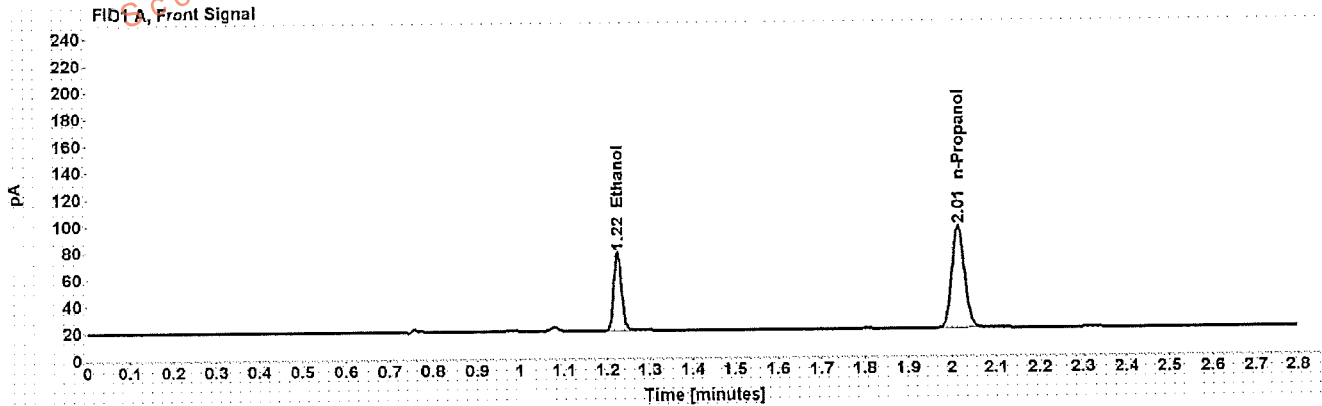


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1382	1.224	74.732
n-Propanol	-----	2.014	155.952

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.328	77.068
n-Propanol	2.345	160.929

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: tube 2	Item number:
Injection date: 3/24/2017 1:52:53 PM	Vial: 1
Method: ethanol quant.M	Sequence: test
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem\3211\Data\rsdtest3\test001F0101.D	

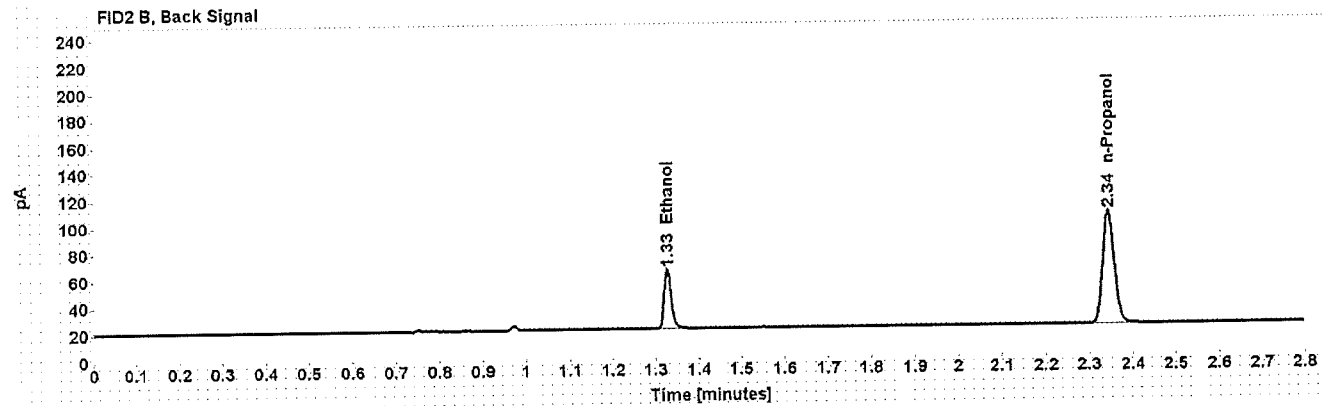
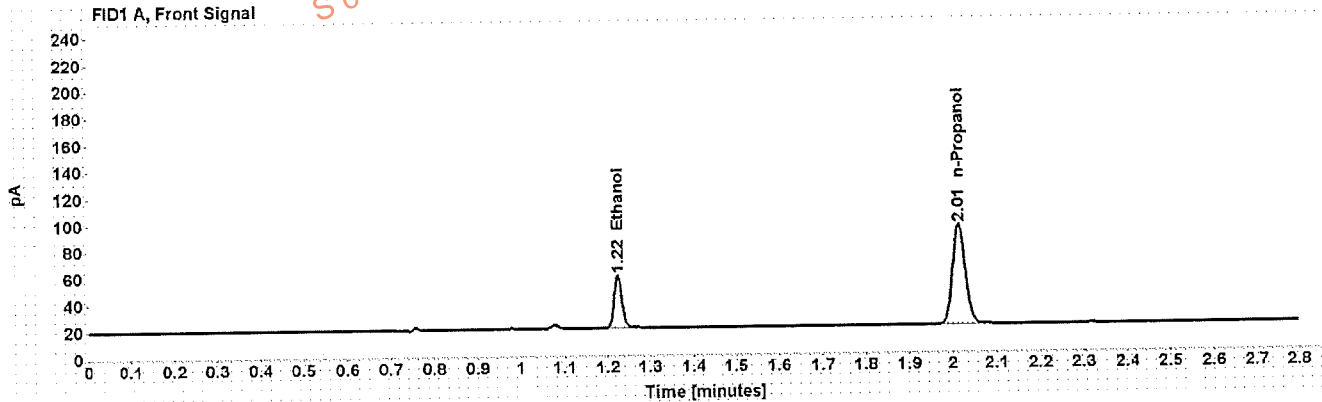


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0953	1.224	50.491
n-Propanol	-----	2.014	153.319

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.327	52.028
n-Propanol	2.345	157.989

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: tube 2	Item number:
Injection date: 3/24/2017 1:56:53 PM	Vial: 2
Method: ethanol quant.M	Sequence: test
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem32\1\Data\rsdtest3\test\002F0201.D	

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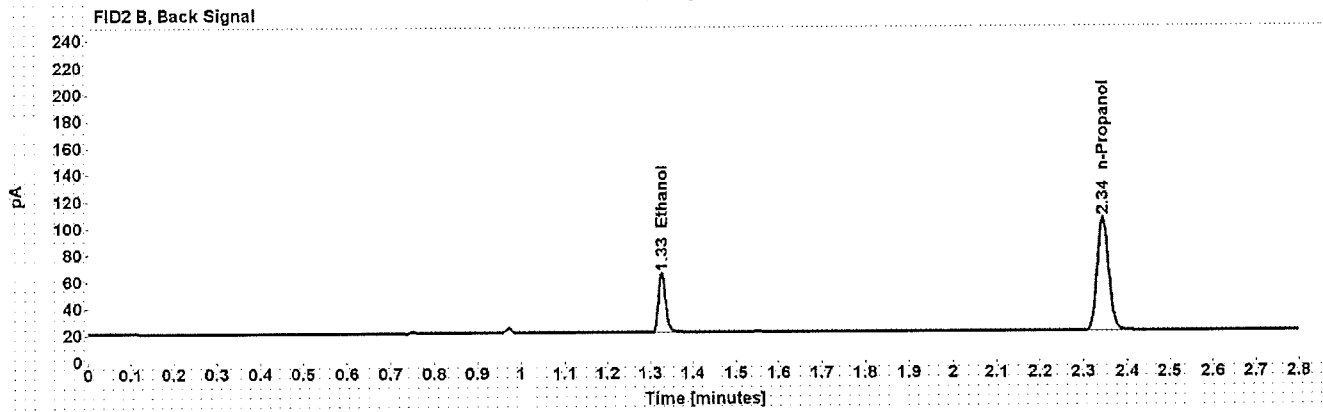
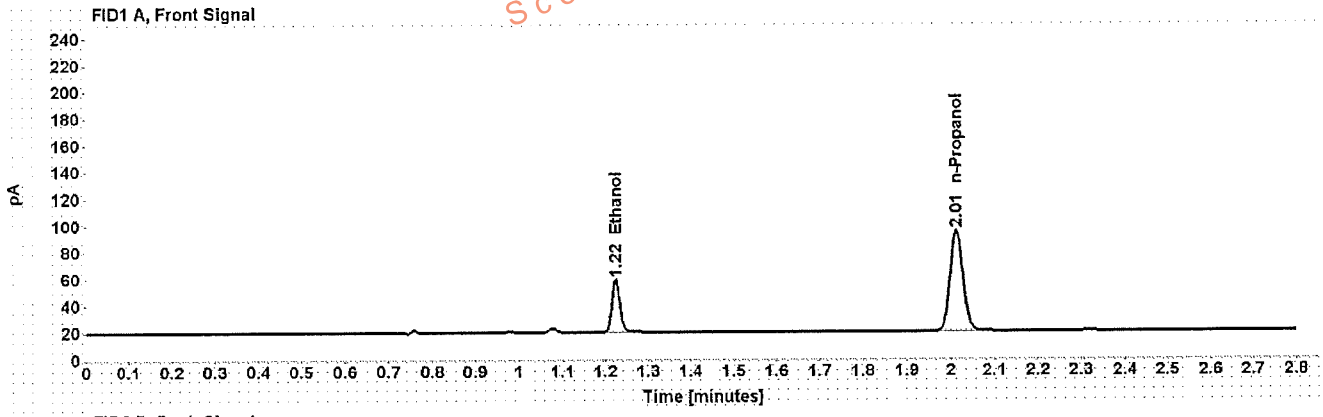


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0951	1.224	50.557
n-Propanol	-----	2.014	153.777

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.327	51.773
n-Propanol	2.344	158.675

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Lab
(-)
(-)
(-)
(-)
(-)
(-)
36
1090
176
(-)

CASE_ID	PROP_ID	PROPDESC	ADDUSER	ADDTIME	OUTLOCATN
	1071532	VIAL OF BLOOD	1418	01/10/2016 02:15:43	G PBT NO PBT
	1071533	VIAL OF BLOOD	1418	01/10/2016 02:16:40	
	1071534	BLOOD VIAL ONE: [REDACTED]	1337	01/10/2016 03:24:40	E PBT
	1071535	BLOOD VIAL TWO: [REDACTED]	1337	01/10/2016 03:25:09	
	1071542	VIAL OF BLOOD	1465	01/10/2016 05:03:42	0.186 Intox
	1071569	BLOOD VIAL ONE: [REDACTED]	1337	01/10/2016 06:39:32	
	1071570	BLOOD VIAL TWO: [REDACTED]	1337	01/10/2016 06:39:55	0.234 PBT
	1071707	VIAL OF BLOOD	1415	01/10/2016 21:49:01	0.146 Intox
	1071708	VIAL OF BLOOD	1415	01/10/2016 21:49:49	
	1071752	BLOOD TUBE 1	1278	01/11/2016 02:11:03	LABO
	1071753	BLOOD TUBE 2	1278	01/11/2016 02:11:27	LABO
	1071755	BLOOD VIAL	1471	01/11/2016 03:08:24	0.196 PBT
	1071756	BLOOD VIAL	1471	01/11/2016 03:09:15	
	1071764	BLOOD VIAL #1 <i>we watched packaging</i>	1268	01/11/2016 05:13:05	0.101 PBT
	1071765	BLOOD VIAL #2	1268	01/11/2016 05:13:41	0.091 Intox
	1071762	NUMBER ONE GREY TOPPED VIAL	1313	01/11/2016 05:11:52	.160 Intox
	1071763	NUMBER TWO GREY TOPPED VIAL	1313	01/11/2016 05:12:19	
	1071873	BLOOD TUBE NUMBER ONE	515	01/11/2016 22:48:04	0.120 PBT
	1071874	BLOOD TUBE NUMBER TWO	515	01/11/2016 22:48:22	Roberson



**SCOTTSDALE ARIZONA POLICE DEPARTMENT
CRIME LABORATORY
EXAMINATION NOTES**

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DR #: _____
 INCIDENT: _____
 DATE: 3/27/17
 TYPE OF EXAM: DNA
 EXAMINER: [Signature]

PAGE ___ OF ___

Rec'd from M. Raines in presence of K. Cano

^{SW NW}
 #2 - one sw, pkg in "16-00804 #2 1071753 (.09)", RBS ~ 25% (heavy)
 - used very sm cutting for DNA
 - will refer to this sample as "#2"
 - rest → lab storage

#1 - one sw, sw pkg in "16-00804 #1 1071752 (.136)", RBS ~ 1/3 (heavy)
 - used very sm cutting for DNA
 - will refer to this sample as "#1"
 - rest → lab storage

[Handwritten mark]

**GLOBALFILER EXPRESS STR SET-UP AND AMPLIFICATION
UNTREATED SUBSTRATE - 15 uL**

Analyst: A Date: 3/27/17 Pipette Station: 3

Knowns: Hood: Set-up Time: 15:10 Hood Cleaned:

SET-UP: Kit Type: GLOBALFILER EXPRESS Lot# 1609032 Expiration Date: 8/23/17

Master Mix Lot #: 1607020 Primer Set Lot #: 1609017

Control DNA 007 Lot #: 1607016 Prep-N-Go Buffer Lot #: 1602016

Number of samples 4 4 x 6 uL Master Mix = 24 4 x 6 uL Primer = 24 uL

Sample #	DR #	Prep - N-Go Buffer (uL)	Template Amount (uL)	TC Position	Sample #	DR #	Prep - N-Go Buffer (uL)	Amount Amp. (uL)	TC Position
#1	---	3.0	cutting	B2					
#2	---	3.0	cutting	B3					
⊕	---	1.0	2.0	B5					
Neg	---	3.0	φ	B6					

Thermal Cycler: 9700 # 6

3 uL of Prep-N-Go added to test samples & Neg Control = 15uL volume
2 uL of DNA Control 007 & 1uL of Prep-N-Go added to Pos Control

Cycling Parameters:

Initial incubation: 95° C/1 min
Denature: 94° C/3 sec
Anneal: 60° C/30 sec } 27 cycles
Final Extension: 60° C/8 min
Final Hold: 4° C/ forever

Page of

DNA Electrophoresis/Sample Sheet

3500 Load Sheet

Case Number(s): 032717

Analyst: [Signature]

Plate Name: 032717

Pipette Station: 8

Date: 3/21/17

	1	2	3	4	5	6	7	8	9	10	11	12
A											GFE ladder	
B											#1	
C											#2	
D											[Signature]	
E											neg	
F											GFE ladder	
G												
H												

Pop 4 lot # 1610127

master mix: total samples: 4

mix made for: 8

Capillary L316 JS004

ABC lot # 1612359

AL lot # GFE 1607030

CBC lot # 1610394

of injections 114 remain

lot # 1511408 Formamide 76 9.5 ul

lot # 1612103 LIZ 4 0.5 ul

Run name : 032717
 GMID-X project name 032717
 will need to re-inject for 15 sec

Plate Grid Report

Plate Details

Plate Name: 032717
 Number of Wells: 96
 Plate Type: HID
 Polymer: POP4

Owner: tag
 Barcode:
 Capillary Length: 36

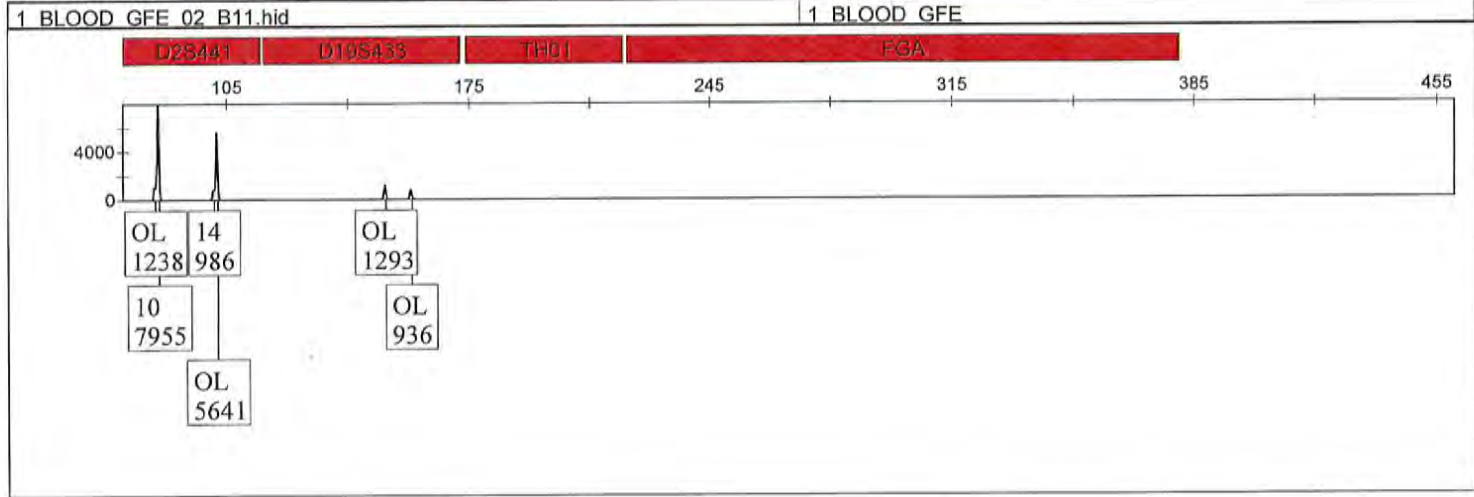
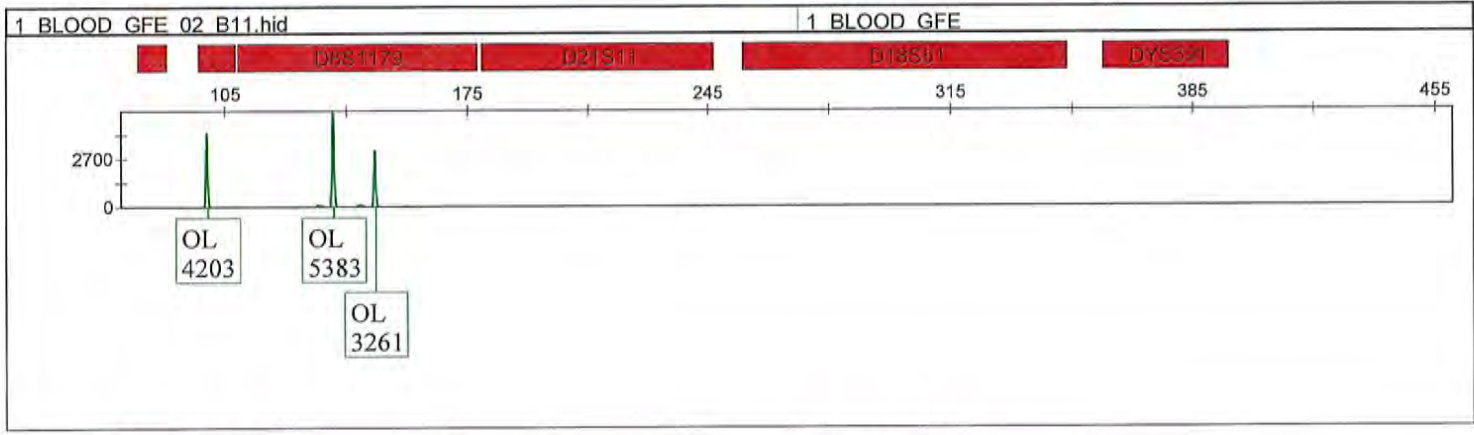
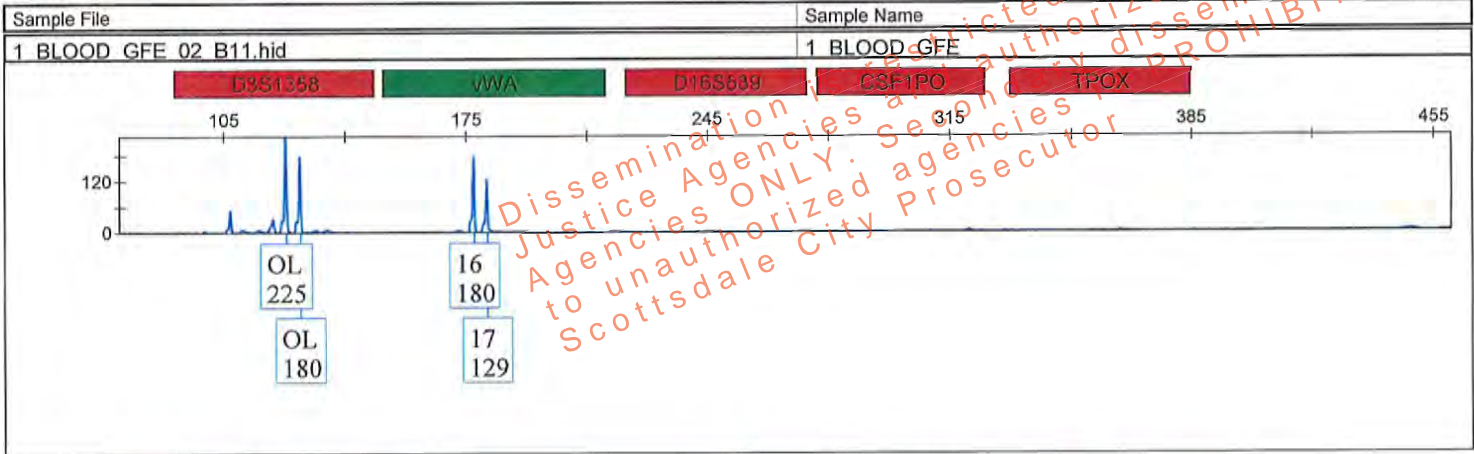
	4	5	6	7	8	9	10	11	12
A								H	
B								GFE_LADDER	
C								H	
D								1_BLOOD_GFE	
E								H	
F								2_BLOOD_GFE	
G								H	
H								POS_CTRL_GFE	
								H	
								NEG_CTRL_GFE	
								H	
								GFE_LADDER	

Legend

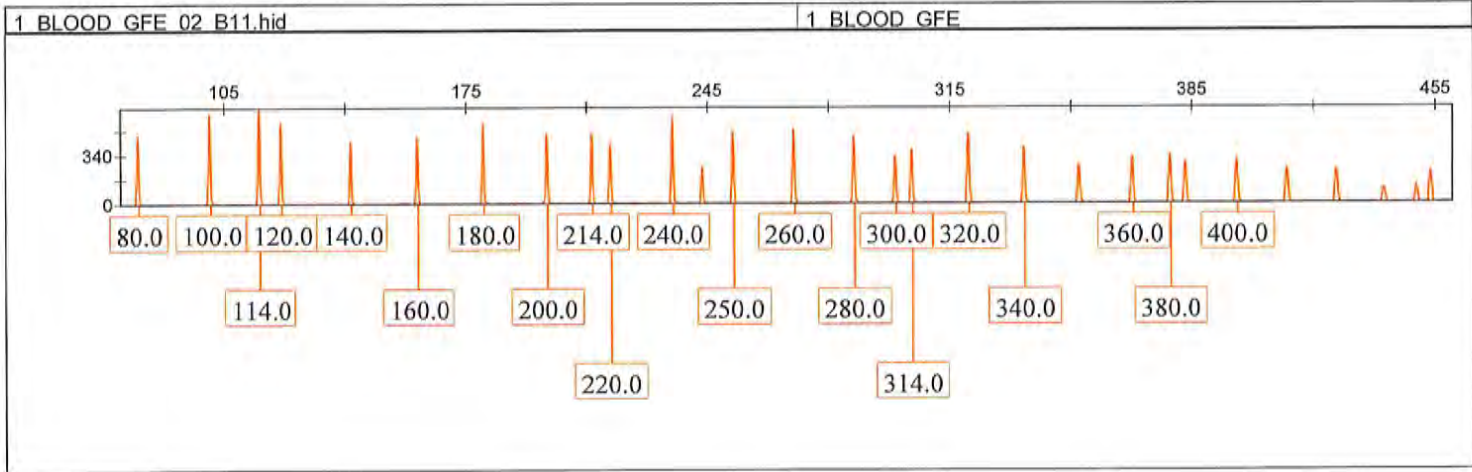
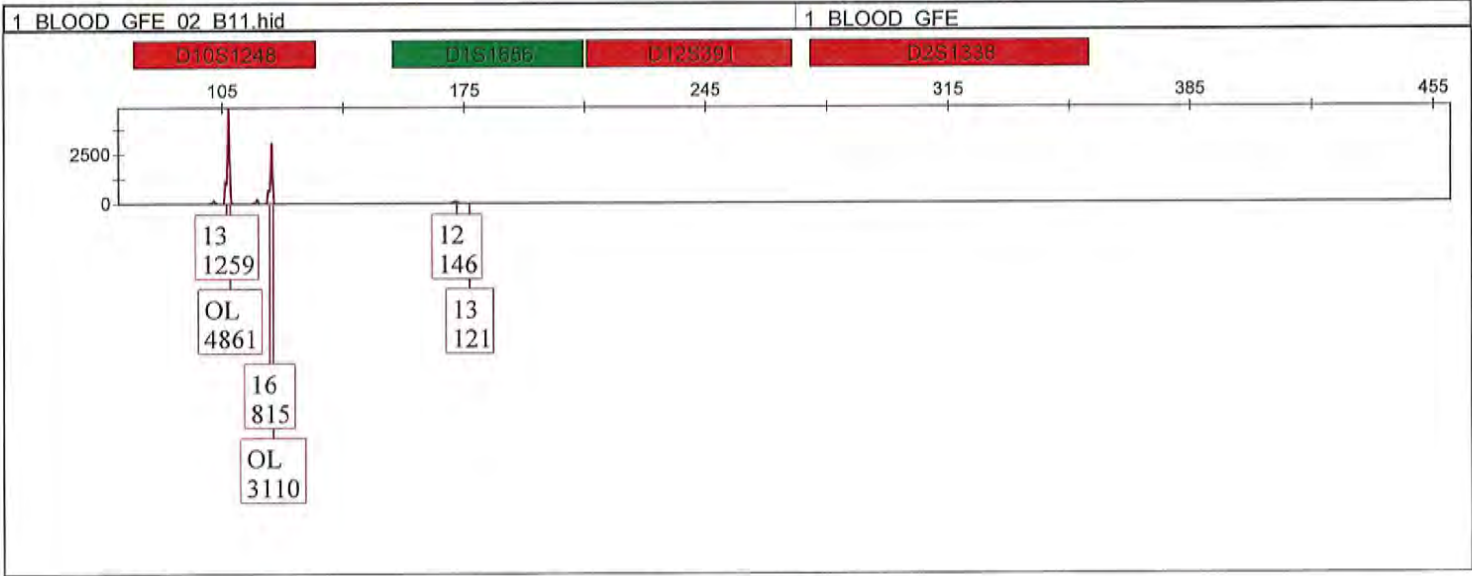
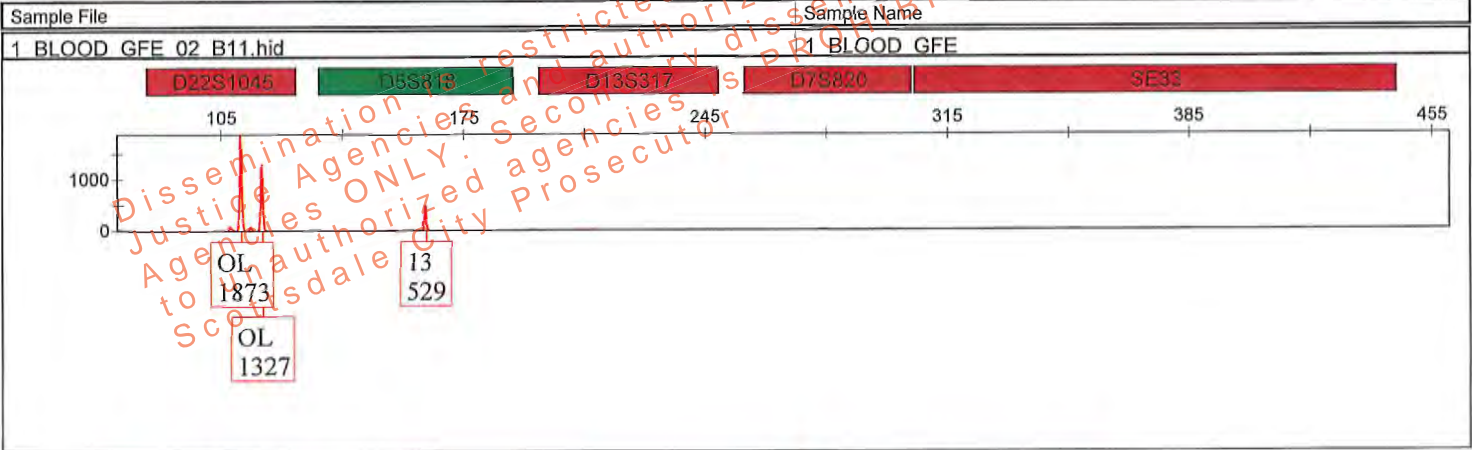
- H Plate : HID
- Assay : GFE 7

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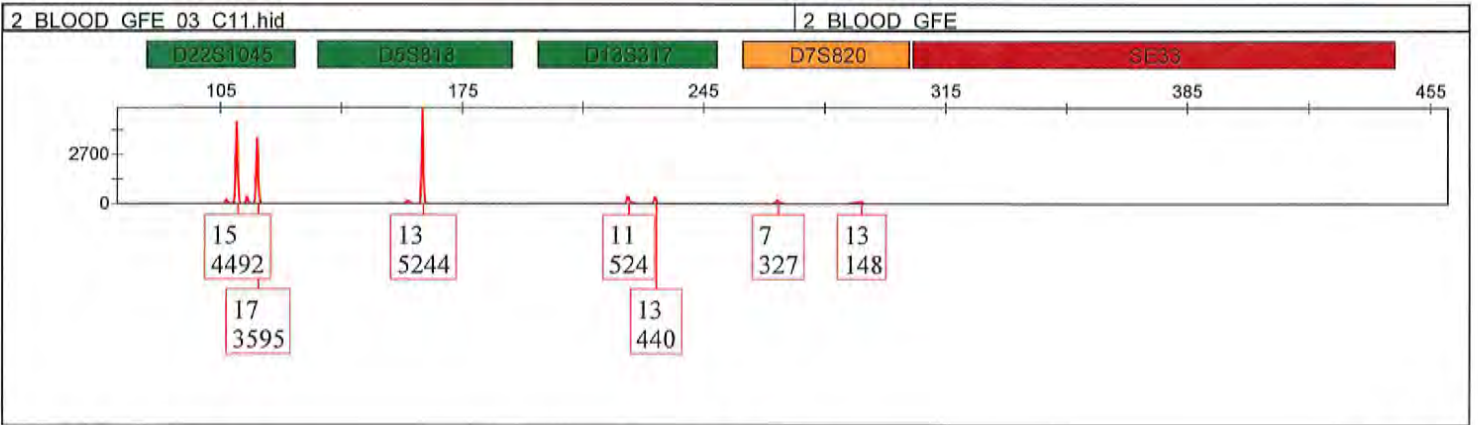
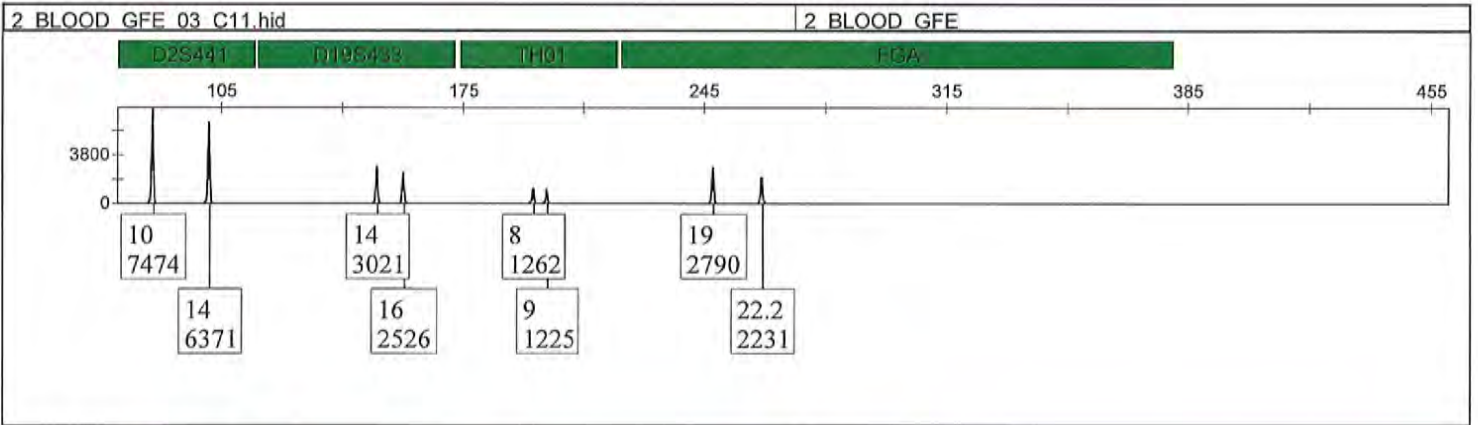
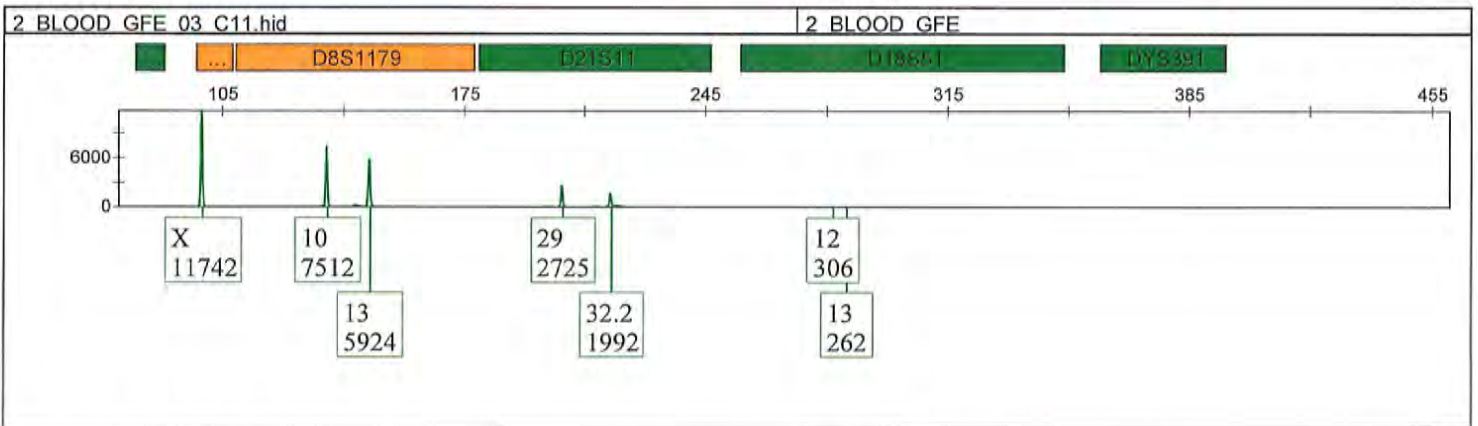
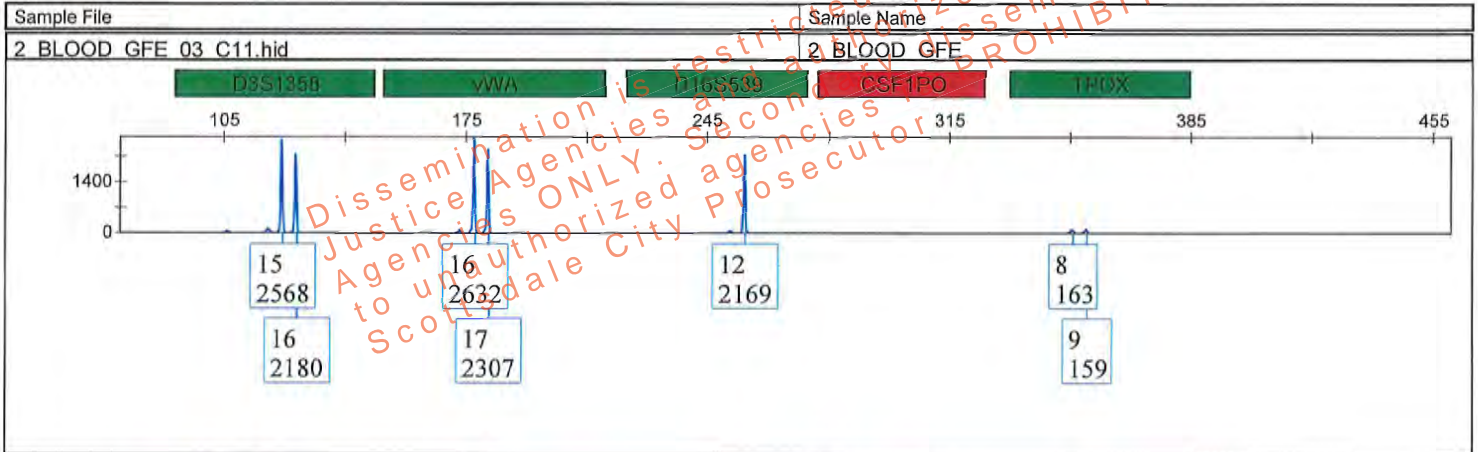
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Scottsdale City Prosecutor



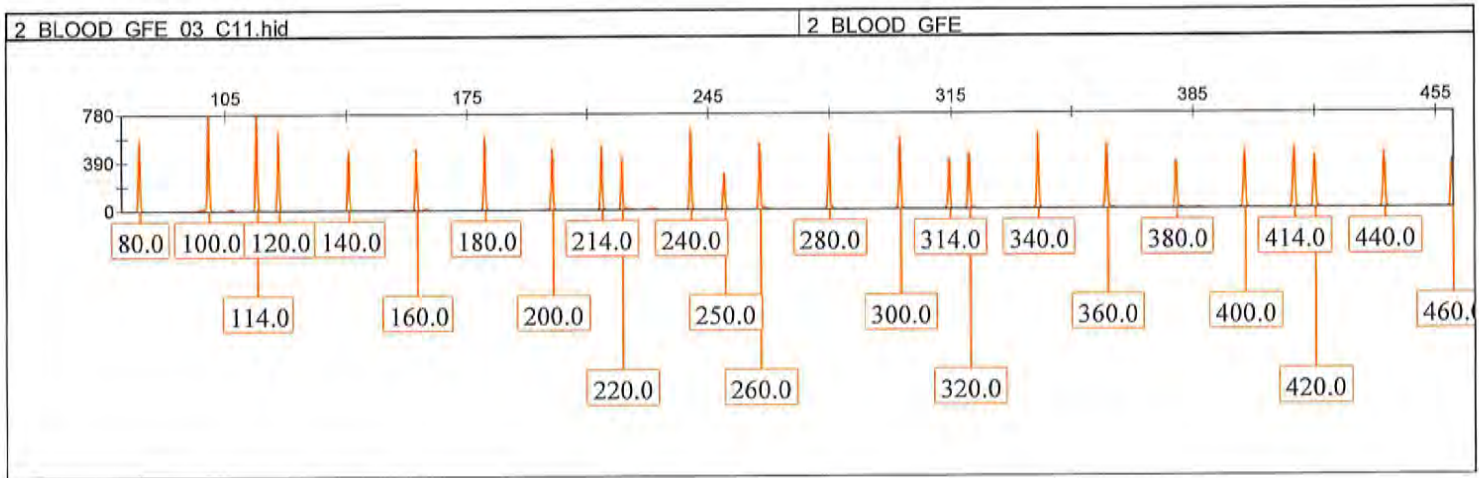
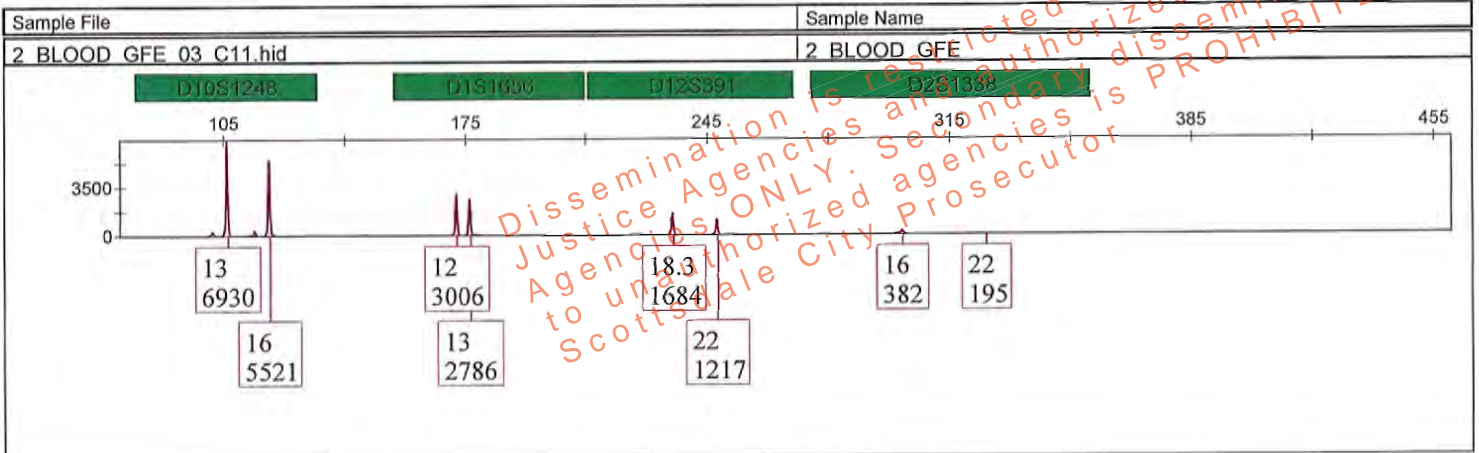
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Scottsdale City Prosecutor



A normal headspace vial has 2.5 mL of 0.015 g/mL n-propanol

$$(2.5 \text{ mL}) \times \left(0.015 \frac{\text{g}}{\text{mL}}\right) = 0.0375 \text{ grams of } n\text{-propanol}$$

The area counts on column-A are around 150 -160 for a normal headspace vial

$$\frac{160 \text{ area counts}}{0.0375 \text{ grams } n\text{-propanol}} = 4267 \text{ area counts/gram } n\text{-propanol}$$

Original BAC in tube = 0.136

Volume estimated by both analysts = 9 mL

Assume tube was diluted by 2.5 mL standard if blood plus internal standard was pipetted back into the tube instead of the headspace vial.

Original tube volume would have been 6.5 mL

$$(6.5 \text{ mL}) \times (0.136 \frac{\text{g}}{\text{dL}}) = (9 \text{ mL}) \times (\text{diluted BAC})$$

Diluted BAC = 0.098 g/dL

original measurement of tube #2 = 0.0908
0.0910
pretty close without taking into account extra n-propanol area counts from n-propanol added to blood tube

This diluted BAC only reflects the effect of dilution. When the BAC of the "blood" in this tube is measured the BAC would be even lower than the estimated diluted BAC due to the effect of the additional n-propanol that would be in the headspace vial.

If 2.5 mL of internal standard was added to the blood tube, this would be equivalent to the addition of 0.0375 grams of n-propanol.

The concentration of n-propanol in the blood tube would be

$$\frac{0.0375 \text{ g } n\text{-propanol}}{9 \text{ mL "blood"}} = 0.0042 \text{ g/mL}$$

If 0.25 mL of this "blood" was pipetted into a headspace vial with 2.5 mL of water, the amount of n-propanol in the headspace vial would be

$$(0.25 \text{ mL blood}) \times (0.0042 \frac{\text{g}}{\text{mL}}) = 0.001 \text{ grams of } n\text{-propanol}$$

The expected area counts from a headspace vial with 0.001 g n-propanol would be

$$(0.001 \text{ grams}) \times \left(4267 \frac{\text{area counts}}{\text{gram}}\right) = 4.267 \text{ area counts}$$

area counts from chromatograms with 0.25 mL blood from tube #2 plus 2.5 mL water are
4.523
and
4.596

very good agreement

The calibration equation for the original analysis of tube 2 was $y = 3.83929x - 0.001226$. Using this equation, the BAC was recalculated using an adjusted area count for the internal standard. The measured area counts for the internal standard were reduced by 4.44 to account for the n-propanol in the blood tube.

	Ethanol area counts	n-propanol area counts	Adjusted n-propanol area counts	BAC (g/dL)
tube 2 vial 1	52.093	154.860		0.0908
Tube 2 vial 2	53.441	158.532		0.0910
Tube 2 vial 1	52.093		150.420	0.0934
Tube 2 vial 2	53.441		154.092	0.0935

→ close to estimated 0.098

When the assumed original BAC of 0.136 is adjusted for dilution of the blood in the tube by 2.5 mL of internal standard solution in the blood tube, the estimated BAC of 0.098 compares well with the BAC estimated by adjusting the measured BAC to reflect the extra n-propanol in the tube, 0.093-0.094.

Blood Alcohol Notes Audittrail Data for L16-06-02074

*LIMS-plus inserts a blank record first, then records the values from LIMS-plus into the database, therefore the Update Type will never

Evidence #: 1071752

Date	Type	Evid. Num.	Username	Fieldname	Value
8/1/2016 4:58:05PM	UPDATE	1071752	SCOTTSDALE1\ALangan	povidone	Unchecked
8/1/2016 4:58:05PM	UPDATE	1071752	SCOTTSDALE1\ALangan	vacutainer	Checked
8/1/2016 4:58:05PM	UPDATE	1071752	SCOTTSDALE1\ALangan	Type of Tube	Grey Top
8/1/2016 4:58:05PM	UPDATE	1071752	SCOTTSDALE1\ALangan	other	Unchecked
8/1/2016 4:58:05PM	UPDATE	1071752	SCOTTSDALE1\ALangan	Packaging Sealed Checkbox	Checked
8/1/2016 4:58:05PM	UPDATE	1071752	SCOTTSDALE1\ALangan	Tube Sealed Checkbox	Checked
8/1/2016 4:58:05PM	UPDATE	1071752	SCOTTSDALE1\ALangan	Notes for Type of Tube	The samples w
8/1/2016 4:58:05PM	UPDATE	1071752	SCOTTSDALE1\ALangan	Number of Tubes	2
8/1/2016 [REDACTED]	UPDATE	1071752	SCOTTSDALE1\ALangan	mLs of Blood for Tube #1	7
8/1/2016 [REDACTED]	UPDATE	1071752	SCOTTSDALE1\ALangan	mLs of Blood for Tube #2	7
8/1/2016 [REDACTED]	UPDATE	1071752	SCOTTSDALE1\ALangan	Exp. Date of Tube	2016-11
8/1/2016 4:58:05PM	UPDATE	1071752	SCOTTSDALE1\ALangan	Labelling on Tube	[REDACTED]
8/1/2016 4:58:05PM	UPDATE	1071752	SCOTTSDALE1\ALangan	General Notes field	The outer box w
8/1/2016 4:58:05PM	UPDATE	1071752	SCOTTSDALE1\ALangan	Date notes entered	Aug 1 2016 12:
8/3/2016 11:25:51AM	UPDATE	1071752	SCOTTSDALE1\ALangan	mLs of Blood for Tube #2	9

Evidence #: 1071753

Date	Type	Evid. Num.	Username	Fieldname	Value
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	povidone	Unchecked
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	vacutainer	Checked
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	Type of Tube	Grey Top
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	other	Unchecked
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	Packaging Sealed Checkbox	Checked
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	Tube Sealed Checkbox	Checked
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	Notes for Type of Tube	The samples w
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	Number of Tubes	2
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	mLs of Blood for Tube #1	7
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	mLs of Blood for Tube #2	9
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	Exp. Date of Tube	2016-11
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	General Notes field	The outer box w
3/21/2017 1:23:08PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	Date notes entered	Mar 21 2017 12:
3/21/2017 1:25:58PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	Labelling on Tube	[REDACTED]
3/21/2017 5:20:07PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	Notes for Type of Tube	The samples w
3/21/2017 5:20:07PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	Labelling on Tube	[REDACTED]
3/23/2017 1:29:06PM	UPDATE	1071753	SCOTTSDALE1\PKosecki	Notes for Type of Tube	The samples w
3/24/2017 11:05:01AM	UPDATE	1071753	SCOTTSDALE1\PKosecki	General Notes field	The outer box w

SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 08/02/2016 SEQUENCE NAME 02Aug16

EQUIPMENT

Pipettor Hamilton ML600EH7497 Hamilton MD91JF5016
 Gas Chromatograph Agilent US14173023 Perkin Elmer 650N9042002

INSTRUMENT CALIBRATION

Vial 1 0.02 calibrator Lot FN08101401 Coefficient of determination (r²)
 Vial 2 0.10 calibrator Lot FN06181501 0.99998
 Vial 3 0.20 calibrator Lot FN07201502
 Vial 4 0.40 calibrator Lot FN11191402

CALIBRATION VERIFICATION AND RESOLUTION TEST

Vial	Sample	Expected result	Measured result	Manufacturer/lot
5	blank	Not detected	Not detected	SPD lab 110215
6	volatiles mixture	6 Compounds	6 Compounds	SPD lab 030916ASL
7	aqueous control	0.400 g/dL	0.398g/dL	Lipomed 05012012-C
8	aqueous control	0.040 g/dL	0.040g/dL	Lipomed 30112011-B
9	blood control	0.200 g/dL	0.202g/dL	ACQ 402101060/6
20	aqueous control	0.080 g/dL	0.081g/dL	Lipomed 14112011-A
31	aqueous control	0.150 g/dL	0.150g/dL	Lipomed 11012012-C
42	blood control	0.200 g/dL	0.203g/dL	ACQ 402101060/6
53	aqueous control	0.080 g/dL	0.080g/dL	Lipomed 14112011-A
64	aqueous control	0.150 g/dL	0.152g/dL	Lipomed 11012012-C
67	aqueous control	0.400 g/dL	0.402g/dL	Lipomed 05012012-C
68	aqueous control	0.040 g/dL	0.040g/dL	Lipomed 30112011-B
69	blood control	0.200 g/dL	0.206g/dL	ACQ 402101060/6
70	blank	Not detected	Not detected	SPD lab 110215

SUBJECT SAMPLES

Subjects in the sequence 26 Subjects requiring reanalysis 0

ADDITIONAL NOTES: All testing proceeded as expected.

Run valid
 Run invalid

Amudongon
 Analyst

Run valid
 Run invalid

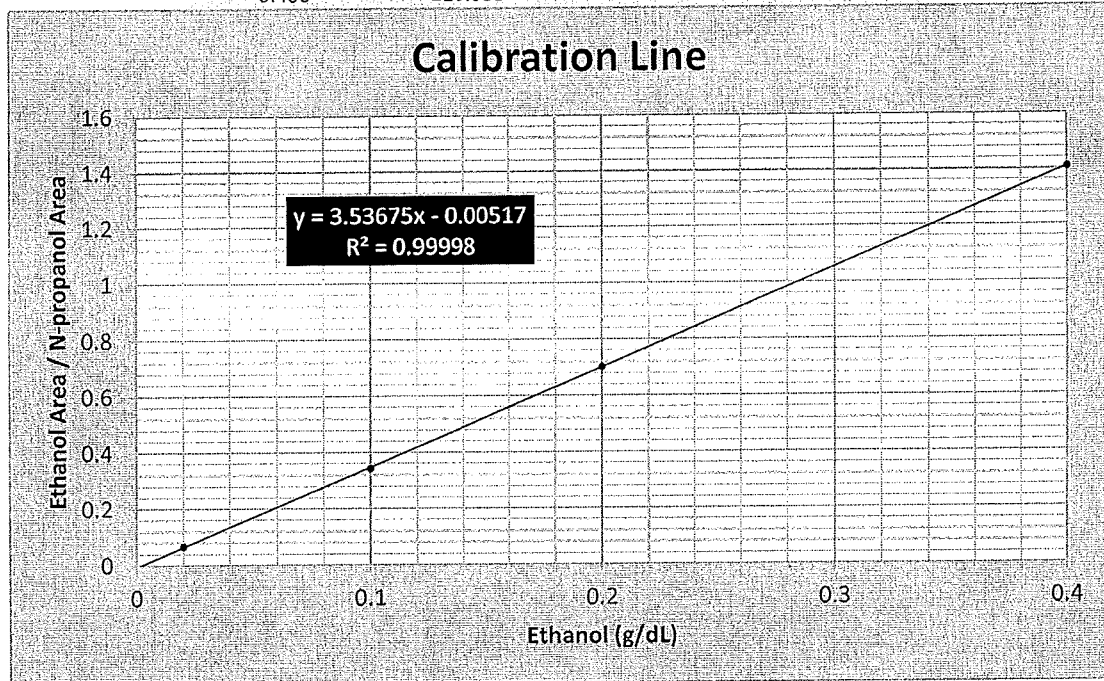
KOSECKI 8/3/16
 Technical Reviewer

SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY
SEQUENCE QUALITY ASSURANCE SUMMARY

SEQUENCE NAME: 02Aug16

Control	Vial	Expected Value (g/dL)	Measured Value (g/dL)	Percent Difference	Absolute Difference (g/dL)
1	5	negative	negative	-	-
2	7	0.400	0.398	0.50	-0.002
3	8	0.040	0.040	0.00	0.000
4	9	0.200	0.202	1.00	0.002
5	20	0.080	0.081	1.25	0.001
6	31	0.150	0.150	0.00	0.000
7	42	0.200	0.203	1.50	0.003
8	53	0.080	0.080	0.00	0.000
9	64	0.150	0.152	1.33	0.002
10	67	0.400	0.402	0.50	0.002
11	68	0.040	0.040	0.00	0.000
12	69	0.200	0.206	3.00	0.006
13	70	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	10,498	153,476	0.068
0.100	52,816	153,275	0.345
0.200	107,472	152,951	0.703
0.400	216,688	153,666	1.410



Sequence Summary

Sequence name: 02Aug16 Instrument: US14173023 CN14160045 Analyst: Langan *ML*

Vial	Sample	Type	Item Number	Method
1	0.02 Cerilliant FN08101401	Calibration		ethanol quant.M
2	0.10 Cerilliant FN06181501	Calibration		ethanol quant.M
3	0.20 Cerilliant FN07201502	Calibration		ethanol quant.M
4	0.40 Cerilliant FN11191402	Calibration		ethanol quant.M
5	blank 110215	Control		ethanol quant.M
6	volatiles mix 030916 ASL	Control		ethanol quant.M
7	0.40 Lipomed 05012012-C	Control		ethanol quant.M
8	0.04 Lipomed 30112011-B	Control		ethanol quant.M
9	0.20 ACQ 402101060/6	Control		ethanol quant.M
10	[REDACTED]	Sample	1092984	ethanol quant.M
11	[REDACTED]	Sample	1092984	ethanol quant.M
12	[REDACTED]	Sample	1098516	ethanol quant.M
13	[REDACTED]	Sample	1098516	ethanol quant.M
14	[REDACTED]	Sample	1097356	ethanol quant.M
15	[REDACTED]	Sample	1097356	ethanol quant.M
16	[REDACTED]	Sample	1097556	ethanol quant.M
17	[REDACTED]	Sample	1097556	ethanol quant.M
18	[REDACTED]	Sample	1064438	ethanol quant.M
19	[REDACTED]	Sample	1064438	ethanol quant.M
20	0.080 Lipomed 14112011-A	Control		ethanol quant.M
21	[REDACTED]	Sample	1075422	ethanol quant.M
22	[REDACTED]	Sample	1075422	ethanol quant.M
23	[REDACTED]	Sample	1071752	ethanol quant.M
24	[REDACTED]	Sample	1071752	ethanol quant.M
25	[REDACTED]	Sample	1099781	ethanol quant.M
26	[REDACTED]	Sample	1099781	ethanol quant.M
27	[REDACTED]	Sample	1099581	ethanol quant.M
28	[REDACTED]	Sample	1099581	ethanol quant.M
29	[REDACTED]	Sample	1102117	ethanol quant.M
30	[REDACTED]	Sample	1102117	ethanol quant.M
31	0.150 Lipomed 11012012-C	Control		ethanol quant.M
32	[REDACTED]	Sample	1061707	ethanol quant.M
33	[REDACTED]	Sample	1061707	ethanol quant.M
34	[REDACTED]	Sample	1101012	ethanol quant.M
35	[REDACTED]	Sample	1101012	ethanol quant.M
36	[REDACTED]	Sample	1101008	ethanol quant.M
37	[REDACTED]	Sample	1101008	ethanol quant.M
38	[REDACTED]	Sample	000001A	ethanol quant.M
39	[REDACTED]	Sample	000001A	ethanol quant.M
40	[REDACTED]	Sample	000001A	ethanol quant.M
41	[REDACTED]	Sample	000001A	ethanol quant.M
42	0.20 ACQ 402101060/6	Control		ethanol quant.M
43	[REDACTED]	Sample	1058349	ethanol quant.M
44	[REDACTED]	Sample	1058349	ethanol quant.M
45	[REDACTED]	Sample	1100066	ethanol quant.M
46	[REDACTED]	Sample	1100066	ethanol quant.M
47	[REDACTED]	Sample	1095323	ethanol quant.M

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Sequence Summary

48		Sample	1095323	ethanol quant.M
49		Sample	169-01A	ethanol quant.M
50		Sample	169-01A	ethanol quant.M
51		Sample	315-01A	ethanol quant.M
52		Sample	315-01A	ethanol quant.M
53	0.080 Lipomed 14112011-A	Control		ethanol quant.M
54		Sample	1063813	ethanol quant.M
55		Sample	1063813	ethanol quant.M
56		Sample	1099958	ethanol quant.M
57		Sample	1099958	ethanol quant.M
58		Sample	000001A	ethanol quant.M
59		Sample	000001A	ethanol quant.M
60		Sample	000001A	ethanol quant.M
61		Sample	000001A	ethanol quant.M
62		Sample	1076210	ethanol quant.M
63		Sample	1076210	ethanol quant.M
64	0.150 Lipomed 11012012-C	Control		ethanol quant.M
65		Sample	1066929	ethanol quant.M
66		Sample	1066929	ethanol quant.M
67	0.40 Lipomed 05012012-C	Control		ethanol quant.M
68	0.04 Lipomed 30112011-B	Control		ethanol quant.M
69	0.20 ACQ 402101060/6	Control		ethanol quant.M
70	blank 110215	Control		ethanol quant.M

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 Scottsdale City Prosecutor

SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY
SEQUENCE SUMMARY OF CASES

SEQUENCE NAME: 02Aug16

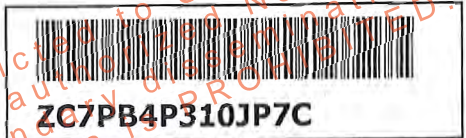
Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.0951	0.0939	0.09450	0.63	0.00060
12 13	0.0323	0.0324	0.03235	0.15	0.00005
14 15	0.0000	0.0000	0.00000	0.00	0.00000
16 17	0.1652	0.1671	0.16615	0.57	0.00095
18 19	0.1059	0.1077	0.10680	0.84	0.00090
21 22	0.2129	0.2134	0.21315	0.12	0.00025
23 24	0.1368	0.1360	0.13640	0.29	0.00040
25 26	0.0836	0.0837	0.08365	0.06	0.00005
27 28	0.0386	0.0380	0.03830	0.78	0.00030
29 30	0.0000	0.0000	0.00000	0.00	0.00000
32 33	0.2237	0.2212	0.22245	0.56	0.00125
34 35	0.1025	0.1019	0.10220	0.29	0.00030
36 37	0.1304	0.1295	0.12995	0.35	0.00045
38 39	0.1402	0.1392	0.13970	0.36	0.00050
40 41	0.0000	0.0000	0.00000	0.00	0.00000
43 44	0.0903	0.0899	0.09010	0.22	0.00020
45 46	0.0786	0.0785	0.07855	0.06	0.00005
47 48	0.0000	0.0000	0.00000	0.00	0.00000
49 50	0.1818	0.1816	0.18170	0.06	0.00010
51 52	0.1736	0.1738	0.17370	0.06	0.00010
54 55	0.0940	0.0943	0.09415	0.16	0.00015
56 57	0.0922	0.0927	0.09245	0.27	0.00025
58 59	0.1909	0.1903	0.19060	0.16	0.00030
60 61	0.1879	0.1879	0.18790	0.00	0.00000
62 63	0.1347	0.1363	0.13550	0.59	0.00080
65 66	0.2925	0.2923	0.29240	0.03	0.00010

*Calculated differences are differences from the mean of the two results.

ANALYTICAL WORKLIST

ANALYST: Amy Langan

Print Date: 8/2/2016



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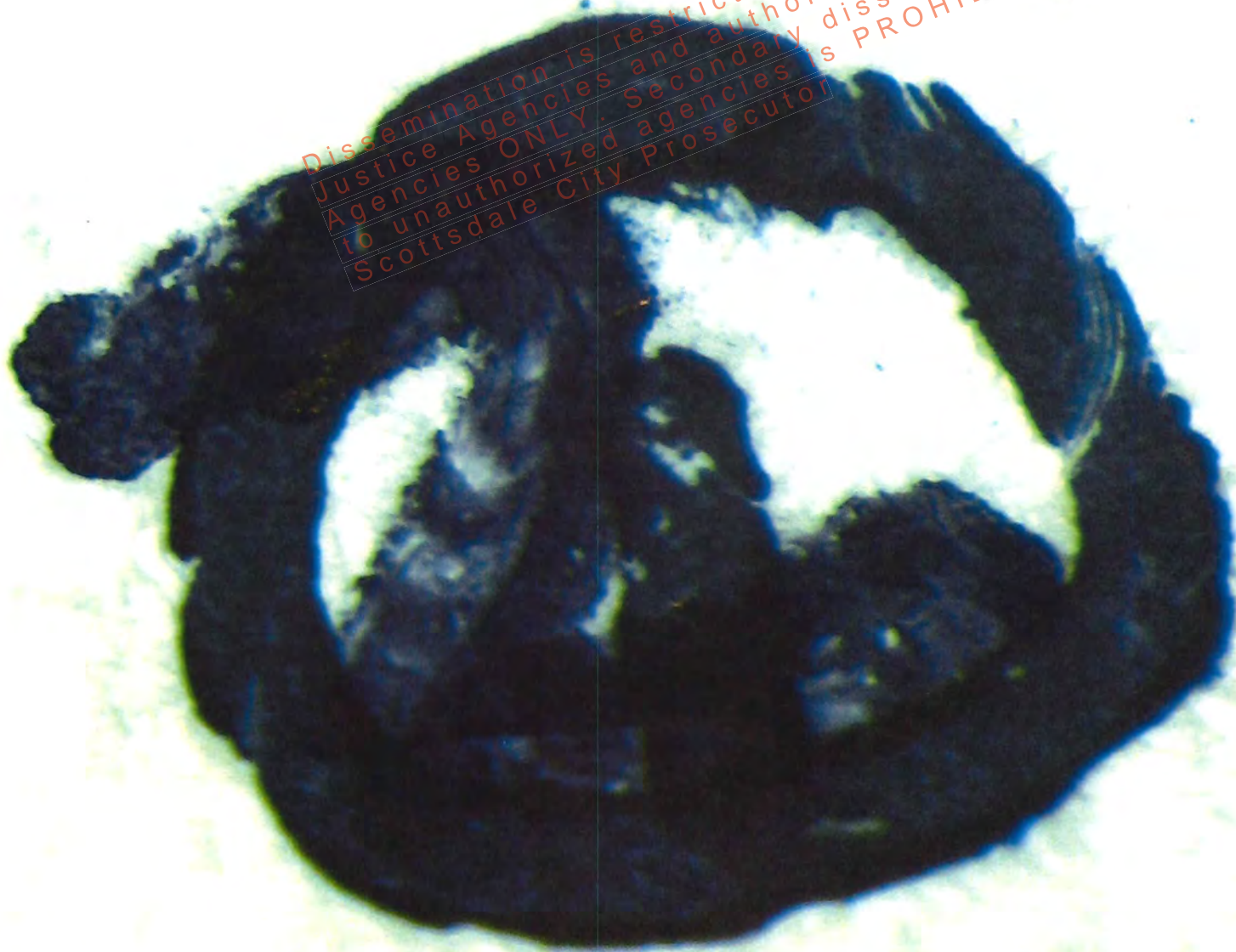
Individual	Evid #	Evid Type	Row Number
[REDACTED]	[REDACTED]	[REDACTED]	
	1092984	Blood	10 11
	[REDACTED]	[REDACTED]	
	1098516	Blood	12 13
	[REDACTED]	[REDACTED]	
	1097356	Blood	14 15
	[REDACTED]	[REDACTED]	
	1097556	Blood	16 17
[REDACTED]	[REDACTED]		
1064438	Blood	18 19	
[REDACTED]	[REDACTED]		
1075422	Blood	21 22	
[REDACTED]	[REDACTED]		
1071752	Blood	23 24	
[REDACTED]	[REDACTED]		
1099781	Blood	25 26	

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Individual	Evid #	Evid Type	Row Number
[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	1099581	Blood	27 28
[REDACTED]	1102117	Blood	29 30
[REDACTED]	1061707	Blood	32 33
[REDACTED]	1101012	Blood	34 35
[REDACTED]	1101008	Blood	36 37
[REDACTED]	000001A	Contro	38 39
[REDACTED]	000001A		40 41
[REDACTED]	1058349	Blood	43 44
[REDACTED]	1100066	Blood	45 46
[REDACTED]	1095323	Blood	47 48

Individual	Evid #	Evid Type	Row Number	ML
	[REDACTED]	[REDACTED]	49	
	169-01A		50	
	[REDACTED]	[REDACTED]	51	
	315-01A	Blood	52	
	[REDACTED]	[REDACTED]	54	
	1063813		55	
	[REDACTED]	[REDACTED]	56	
	1099958	Blood	57	
	[REDACTED]	[REDACTED]	58	
	000001A	Blood	59	
[REDACTED]	[REDACTED]	60		
000001A	Blood	61		
AL 8-5-16	[REDACTED]	[REDACTED]	62	
1076210	Blood	63		
[REDACTED]	[REDACTED]	[REDACTED]	65	
1066929	Blood	66		

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Scottsdale City Prosecutor

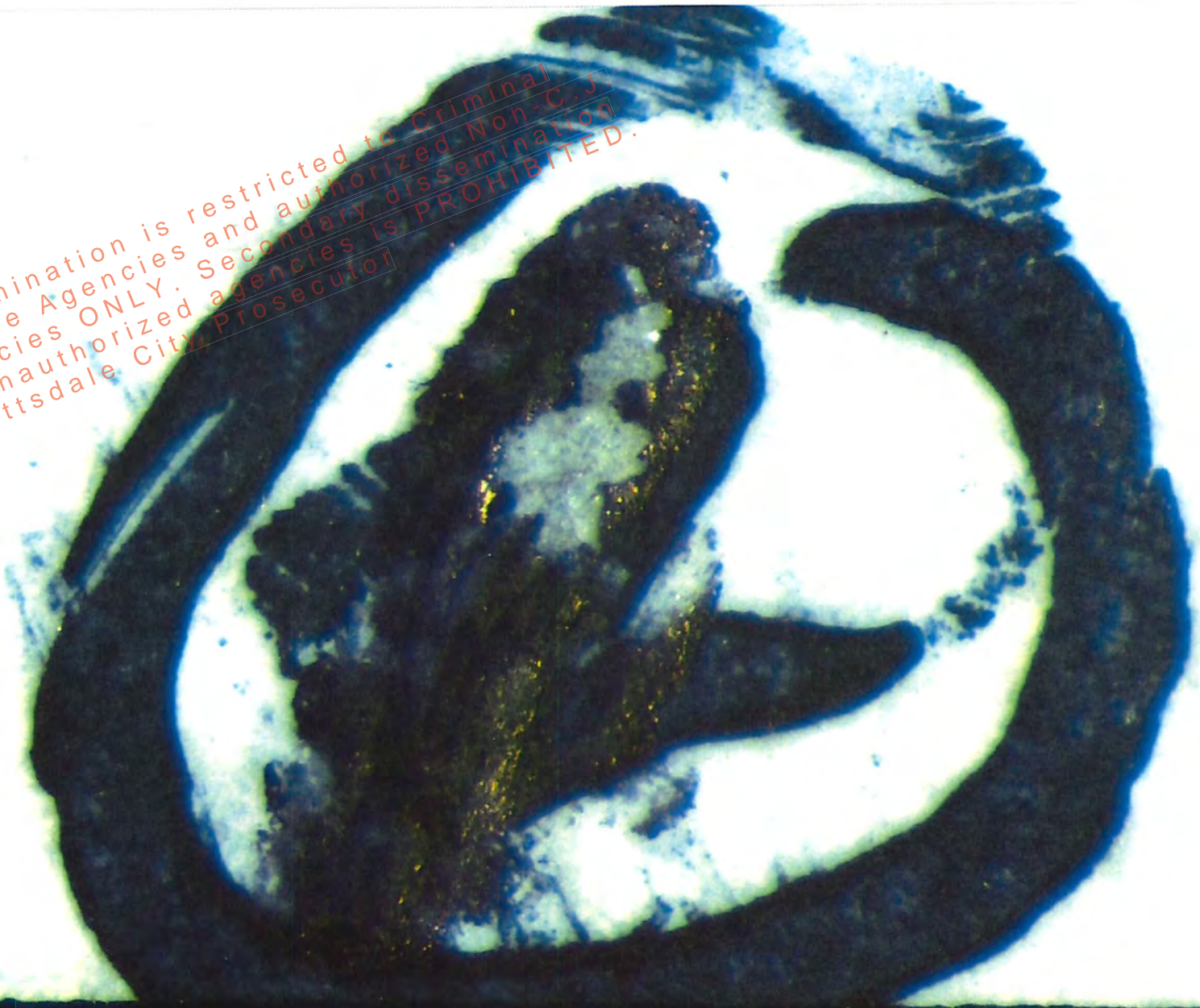


Mike Hueni Stereoscope ©2014

4/4/2017

tube 2 marked 1071253 by ak.jpg

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Justice Agencies and authorized Non-C.J.
Agencies ONLY. Secondary dissemination
to unauthorized agencies is PROHIBITED.
Scottsdale City Prosecutor



Mix. W. W. Stenoscope @ 20x
4/4/2017

tube 1 marked 1071252 by ak.jpg

MEMORANDUM

DATE:

APRIL 6, 2017

To:

Steve Garrett, Forensic Services Director

From:

Kris Cano, Forensic Laboratory Manager

Re:

Summary of [REDACTED]

This memorandum is written to document the series of events that resulted in the contamination of one of the blood tubes submitted for blood alcohol analysis in the above listed DR. A request was submitted by the City prosecutor's office to analyze this case because the examiner, Amy Langan, that performed the initial analysis was resigning from her position with the laboratory.

The analysis performed by Amy Langan resulted in a blood alcohol result of 0.136 g/100ml with a report dated 8/5/16. A second analysis was conducted on the second vial of blood by Dr. Allan Kosecki on 3/21/17 and a value of 0.090 g/100ml. This inconsistency in the results prompted an investigation which was conducted as follows:

1. Both vials of blood were re-analyzed and the pipetting of the samples was witnessed to ensure that the samples were properly aliquoted. The same results were obtained from the respective tubes as detailed above. This confirmed it was not a sampling error.
2. Documentation and video was reviewed to determine that there was not a sample switch that occurred at the blood draw.
3. Examination of the blood tubes was conducted and additional laboratory experiments were run which determined that the second vial that was processed by Dr. Allan Kosecki was contaminated with n-propanol internal standard.
4. Amy Langan stated that she did not recall a problem with the analysis that she conducted between 8/1/16 – 8/3/16, which resulted in the report dated 8/5/16. She further commented that if there was a problem with the analysis she would have documented the issue in the case notes. She was asked this on her last day of employment which was 3/29/17.

5. On Monday 4/3/17 an audit trail was performed and there was a change in the volume of second tube analyzed by Dr. Allan Kosecki from 7 ml to 9ml, which was done by Amy Langan on 8/3/16 after the sample was run. In addition, the vial that was run by Dr. Allan Kosecki had the ILEADS item number written on the tube. Per procedure, the analyst will mark the tube that they sample with the ILEADS item number, leaving the untested tube unlabeled. In this case, the second vial was labeled, which was not the one sampled by Amy Langan. The tubes were also marked 1 and 2 respectively, which was written over changing the 1 to a 2 and the 2 to a 1.

Based on the investigation conducted by the laboratory, n-propanol was added to the second vial. The addition of this to the blood tube caused a decrease in the blood alcohol concentration. This should have been reported. Through examination of the volumes in each vial, it could have only been added prior to Dr. Allan Kosecki's analysis. Given the audit trail, and inconsistency and re-writes on the blood vials, it is the laboratory's position that Amy Langan added n-propanol internal standard to vial 2 and did not notify anyone or document in the case record. In addition, there was documentation to support that there was attempt by Amy Langan to cover up this error.

Respectfully,



Kris Cano

Forensic Laboratory Manager

April 7, 2017

TO: Assistant Chief Scott Popp
Investigative Services Bureau

FROM: Steve Garrett
Director, Forensic Services Division

RE: Amy Langan and Work Performance Issues under DR# [REDACTED]

This memorandum is written to document the series of events that resulted in the discovery of a contamination issued of one of the blood tubes submitted to the crime laboratory for blood alcohol analysis in DR# [REDACTED]

A request was submitted by the City Prosecutor's Office to reanalyze this case due to the fact that the examiner who performed the initial analysis, Amy Langan, was resigning from her position with the laboratory. The original analysis of the first vial of blood was performed by Amy Langan and resulted in a blood alcohol result of 0.136 g/100ml. A report was issued with those results dated 8/5/16. A second analysis was conducted using the second vial of blood by Dr. Allan Kosecki on 3/21/17 and resulted in a blood alcohol result of 0.090 g/100ml (the blood alcohol kits contain two separate vials of blood). This inconsistency between the two results from this two separate blood vials prompted an investigation, which was conducted as follows:

1. After the discrepancy between analyses was detected, both vials of blood were then re-analyzed by Dr. Kosecki and the pipetting of the samples was witnessed to ensure that the samples were properly identified and aliquoted. The same results were obtained from the respective tubes as detailed above. This confirmed it was not a sampling error.
2. ILEADS documentation was reviewed by lab personnel and the case officer's sergeant to determine if any other blood draws occurred at the same time period as the draw of DR# [REDACTED]. Only one other draw was conducted and OBC video was reviewed to determine that there was not a sample switch that occurred between cases at the time of the blood draws by the officers.
3. Additional examination of the blood tubes was conducted and additional laboratory experiments were run which determined that the second vial, which had been processed by Dr. Kosecki, had been contaminated with the same internal standard solution that is used within the lab for the quantitative analysis of blood samples. This type of contamination can occur when the analyst is interrupted in their work or they are not paying attention to the work process. However, once this event occurs it is very self-evident that contamination has occurred and the event must then be documented in the case notes since that vial of blood is no longer suitable for blood alcohol quantitation analysis. Dr. Kosecki stated that this contamination did not occur during his analysis.

4. Amy Langan stated that she did not recall an internal standard sample contamination problem with any analyses that she conducted between 8/1/16 – 8/3/16, which included the report for DR# [REDACTED] dated 8/5/16. She further commented that if there was a problem with the analysis, she would have documented the issue in the case notes. She stated that though she could not recall any such event happening she was sure that it did not; otherwise, it would have been in her case notes. A review of her case notes showed that no such event was documented. This conversation took place on 3/28/17, which was two days before her scheduled last day of work.
5. Laboratory case notes are taken electronically through the laboratory's LIMS system and can therefore be audited. On Monday 4/3/17 an audit trail was performed on the case notes for DR# [REDACTED]. The audit showed that a change had been made in the documented blood volume of the second tube analyzed by Dr. Kosecki from 7 ml to 9 ml. This increase in volume in the second vial of blood would be consistent with internal standard being added directly to the blood vial. That volume documentation change was made by Amy Langan on 8/3/16, two days after she recorded her original notes and one day after she had analyzed the sample.
6. In addition, the vial that was run by Dr. Allan Kosecki had the ILEADS item number written on the tube which was placed there by Amy Langan. Per procedure, the analyst will mark the tube that they sample with the ILEADS item number, leaving the untested tube unlabeled. In this case, the second vial was labeled with the ILEADS item number, which was not the one sampled by Amy Langan. The vial that was analyzed by Amy Langan did not contain an ILEADS number. The tubes were also marked 1 and 2 respectively by the impounding officer. Examination of this labelling showed that the numbers had been over written, changing the 1 to a 2 and the 2 to a 1. This could have been done by the impounding officer or by Amy Langan.

Based on the investigation conducted by the laboratory it was determined that the laboratory's internal standard testing solution had been added to the second vial. The addition of this solution to the tube of blood caused a dilution of the sample and a corresponding decrease in the blood alcohol concentration. By policy this event should have been recorded and reported. Through the examination of the volume of blood in each vial, the addition of the internal standard solution could have only been added prior to Dr. Kosecki's analysis. Given the audit trail, and inconsistency and re-writes on the blood vials, it is the laboratory's position that Amy Langan accidentally added the internal standard solution to the blood tube that Dr. Kosecki later analyzed and she did not notify anyone or document the event in the case record. In addition, there is evidence to support that there was an attempt by Amy Langan to cover up this error by changing the officer's numbering of the blood sample vials to indicate that during her analysis she had never opened the vial that was later shown to be contaminated with the internal standard testing solution. The failure to document this error in the case notes could have resulted in the second tube of blood being released to the defense council for standard defense retesting, resulting in the defense obtaining a significantly lower blood alcohol results which would then be used to discredit the accuracy and reliability of the laboratory's blood alcohol program.

Raines, Melinda - B1466

From: Raines, Melinda - B1466
Sent: Friday, April 14, 2017 9:13 AM
To: QualityMatters@anab.org
Cc: Cano, Kris - B1157; Raines, Melinda - B1466; Garrett, Steve - B585
Subject: Scottsdale PD Crime Lab ALL-168-T
Attachments: 20170414085258297.pdf

To whom it may concern:

In accordance with ASCLD/LAB-International Program Overview Section 4.5, I am writing to inform you of a significant event involving a now former employee. On March 22, 2017 the laboratory became aware of a potential problem with the analysis of a case by the former employee. Memos detailing the issue and investigation by the laboratory are attached. Since the time of the memos it has been determined the laboratory will reanalyze all cases handled by the employee. The laboratory has informed its customers through its chain of command and legal department. It is anticipated the laboratory's parent organization will perform a separate investigation. Additional documentation is available upon request.

Thank you,

Mindy Raines
Forensic Scientist Supervisor/Quality Assurance Scottsdale Police Department
7601 B East McKellips Road
Scottsdale, AZ 85257
P: 480-312-3729 F: 480-312-5222
mraines@scottsdaleaz.gov

MEMORANDUM

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DATE: APRIL 6, 2017

To: Steve Garrett, Forensic Services Director

From: Kris Cano, Forensic Laboratory Manager

Re: Summary of [REDACTED]

This memorandum is written to document the series of events that resulted in the contamination of one of the blood tubes submitted for blood alcohol analysis in the above listed DR. A request was submitted by the City prosecutor's office to analyze this case because the examiner, Amy Langan, that performed the initial analysis was resigning from her position with the laboratory.

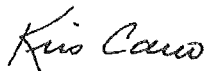
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Respectfully,



Kris Cano

Forensic Laboratory Manager

MEMORANDUM

DATE: APRIL 5, 2017

To: Mindy Raines, Forensic Scientist Supervisor

From: Kris Cano, Forensic Laboratory Manager

Re: Serology Case Review for Amy Langan

This memorandum is written to document the review of serology cases completed by Amy Langan for potential errors. Ms. Langan was trained to screen for biological fluids to assist the Forensic Biology Unit will processing of sexual assault kits. During her tenure, she completed 32 cases which were reviewed. The case scenario submitted by the Forensic Nurse often gives the examiner some background information that can be used to process the sexual assault evidence kits. The information that is captured details the incident time, time of exam and the synopsis of the incident. Cases that were processed and samples were forwarded to a DNA were not investigated as biological evidence was identified and has been or will be processed by the DNA unit along with victim's reference sample that will ensure proper sample collection. There were 14 cases where samples were forwarded on to DNA for further processing.

The remaining 18 cases that were reported by Ms. Langan with had negative results. These case notes were reviewed and the case scenario was also reviewed to determine if the negative results were supported by the details captured upon exam. There were 5 cases where the negative results should be re-confirmed. The other 13 cases the documentation supports the result, by length of time from assault to exam, condom use, or no documentation to support penetration. The 5 cases that were identified will be re-examined and if they are confirmed negative, no further investigation will be required. If those cases are indeed positive for semen, all negative cases will be re-worked.

Respectfully,



Kris Cano

Forensic Laboratory Manager

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Raines, Melinda - B1466

From: QualityMatters <qualitymatters@anab.org>
Sent: Friday, April 14, 2017 10:36 AM
To: Raines, Melinda - B1466
Cc: Cano, Kris - B1157; Garrett, Steve - B585
Subject: RE: Scottsdale PD Crime Lab ALI-168-T
Attachments: 20170414085258297.pdf

Hi Mindy!

Your notification email and attachment have been received. You will be contacted if additional information is needed.

Thanks!

Caprice

Caprice Fowler
Customer Support Supervisor
ANSI-ASQ National Accreditation Board (ANAB)
The Home of ASCLD/LAB
414-501-5375 (desk) – new #
319-237-6588 (cell)
414-501-5494, option 2 (main)
www.ascl-d-lab.org
cfowler@anab.org

Quality Matters[®]



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-----Original Message-----

From: Raines, Melinda - B1466 [<mailto:MRaines@scottsdaleaz.gov>]
Sent: Friday, April 14, 2017 11:13 AM
To: QualityMatters <qualitymatters@anab.org>
Cc: Cano, Kris - B1157 <KCano@scottsdaleaz.gov>; Raines, Melinda - B1466 <MRaines@scottsdaleaz.gov>; Garrett, Steve - B585 <AGAR@SCOTTSDALEAZ.GOV>
Subject: Scottsdale PD Crime Lab ALI-168-T

To whom it may concern:

In accordance with ASCLD/LAB-International Program Overview Section 4.5, I am writing to inform you of a significant event involving a now former employee. On March 22, 2017 the laboratory became aware of a potential problem with

the analysis of a case by the former employee. Memos detailing the issue and investigation by the laboratory are attached. Since the time of the memos it has been determined the laboratory will reanalyze all cases handled by the employee. The laboratory has informed its customers through its chain of command and legal department. It is anticipated the laboratory's parent organization will perform a separate investigation. Additional documentation is available upon request.

Thank you,

Mindy Raines
Forensic Scientist Supervisor/Quality Assurance Scottsdale Police Department
7601 B East McKellips Road
Scottsdale, AZ 85257
P: 480-312-3729 F: 480-312-5222
mraines@scottsdaleaz.gov

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