

## Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

Issued: 04/04/2012  
Effective: 04/04/2012

Version: DMCEF2012 R1  
Status: Active

Instrument S/N 100365 Analyst Colleen O'Bryant Start Date 11/23/12

Diagnostic Test (attached)

## 1. Voltage Checks

a. Adjust voltages, if needed

i. Lamp (2.6V Maximum)

ii. Bias (80V)

iii. Cooler (2.0V Maximum)

iv. Chopper Frequency

v. Detector Voltage (-0.100V to 0.100V)

b. Set RFI

c. Adjust barometer reading to match NIST traceable barometer

d. Adjust volume setting, if needed (1.5L +/- 0.1L)

e. Print Technician Screen (attached)

## 2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1500 mL (1.3L to 1.7L)

## 4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013

ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013

iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/2013

iv. 0.100g/210L Mnf ILMO Lot 0761100A3 Exp 03/01/2013

v. 0.200g/210L Mnf GUTH Lot 11120 Exp 07/19/2013

1. Simulator S/N DR 4162 Date Calibrated 10/09/2012

vi. 0.300g/210L Mnf GUTH Lot 12050 Exp 03/21/2014

1. Simulator S/N DR 4178 Date Calibrated 02/21/2012

## 5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf GUTH Lot 11100 Level 0.100 Exp 07/06/2013

1. Simulator S/N DR 5298 Date Calibrated 10/08/2012

ii. Isopropanol - Mnf GUTH Lot 11250 Level 0.100 Exp 12/06/2013

1. Simulator S/N SD 1202 Date Calibrated 10/09/2012

iii. Negative Control - Mnf GUTH Lot 11220 Level 0.100 Exp 10/24/2013

1. Simulator S/N SD 1176 Date Calibrated 10/09/2012

d. RFI

6. Verify stylus is calibrated

7. Verify card reader is functional

8. Reset Options

9. Clear Memory

10. Verification of Calibration

11. Non-Drinking Subject Test (attached)

12. Upload

13. Update agency information and polling status in DM Host Calling Program

End Date 11/23/12

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100365  
-----

Date: 11/23/2012  
Time: 06:53:41

VERSIONS  
DMT: 2.00  
PIC: 3.02  
Modem: 2.3  
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED  
Breath Tube = 47.6°C PASSED

PUMP INFO  
Flow Rate = 4.443 L/M PASSED

DETECTOR INFO  
PUMP ON PASSED  
PUMP OFF PASSED

FILTER INFO  
Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD PASSED

Technician Screen

-----  
DATAMASTER dmt: 100365  
-----

Date: 11/23/2012  
Time: 7:01 AM

Temperatures (°C)

Sample Cell: 48.9°C  
Breath Tube: 46.7°C

Current Barometer 29.4 in  
Volume (Ltr) 1.53

Settings

Lamp: 2.34 V  
Bias: 80 V  
Cooler: 1.91 V  
Chopper: 517 Hz

Voltages (V)

Flow: 1.04 V  
Detector: 0.075 V

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100365  
-----

Date: 03/22/2011  
Time: 13:11:54

OPERATOR NAME:  
CHARLES FOSTER  
CERTIFICATE #: 7734

LOT #: GUTH100  
BOTTLE #: 9380  
EXPIRATION: 12/17/2011

Ca = 0.1000  
CAL = 0.979027    0.800 <= CAL < 1.200  
b1 = 0.0007    0.0000 <= b1 < 0.0040  
b2 = 0.0054    0.0010 <= b2 < 0.0100  
b3 = 0.0002    0.0000 <= b3 < 0.0040  
Xq = 0.1046    0.0500 <= Xq < 0.2000  
a21 = 1.174732    1.050 <= a21 < 1.300  
a31 = 0.454689    0.300 <= a31 < 0.800

0034/19

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100365

Date: 11/23/2012  
 Time: 07:24:41

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: VOLUME TEST

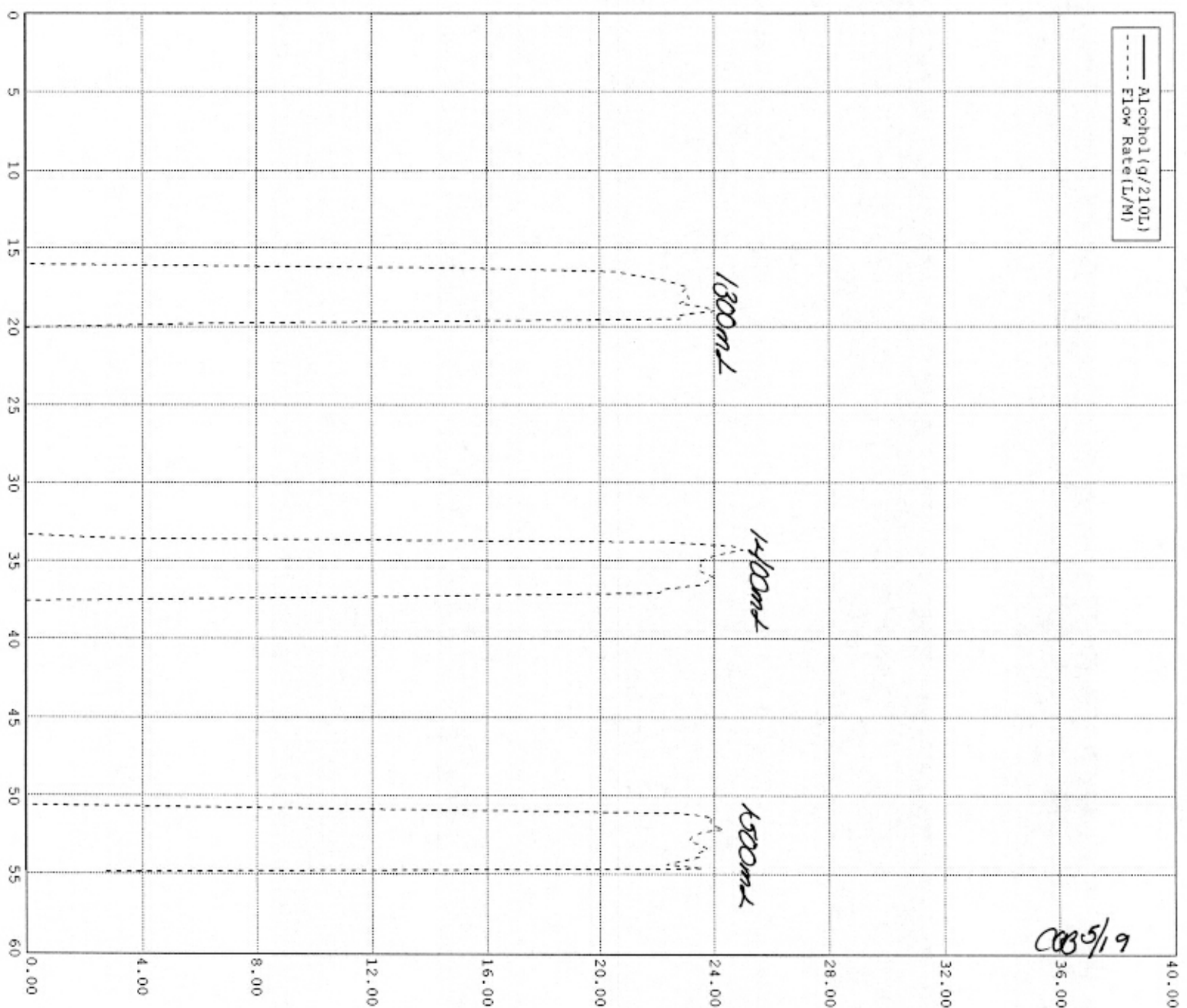
OPERATOR NAME:  
 COLLEEN S O'BRYANT  
 OPERATOR'S #: 6237

DEPT/AGENCY:  
 AAA1  
 CASE/REPORT: 12-1234  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.36: 0.078  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	07:25
BLANK TEST	0.000	07:25
INTERNAL STANDARD	VERIFIED	07:25
EXTERNAL STANDARD	0.076	07:26
BLANK TEST	0.000	07:27
SUBJECT SAMPLE	0.000	07:28
BLANK TEST	0.000	07:28
EXTERNAL STANDARD	0.076	07:29
BLANK TEST	0.000	07:30

*Colleen*



LINEARITY CHECK

Alaska Department of Public Safety  
DATAMASTER dnt: 100365

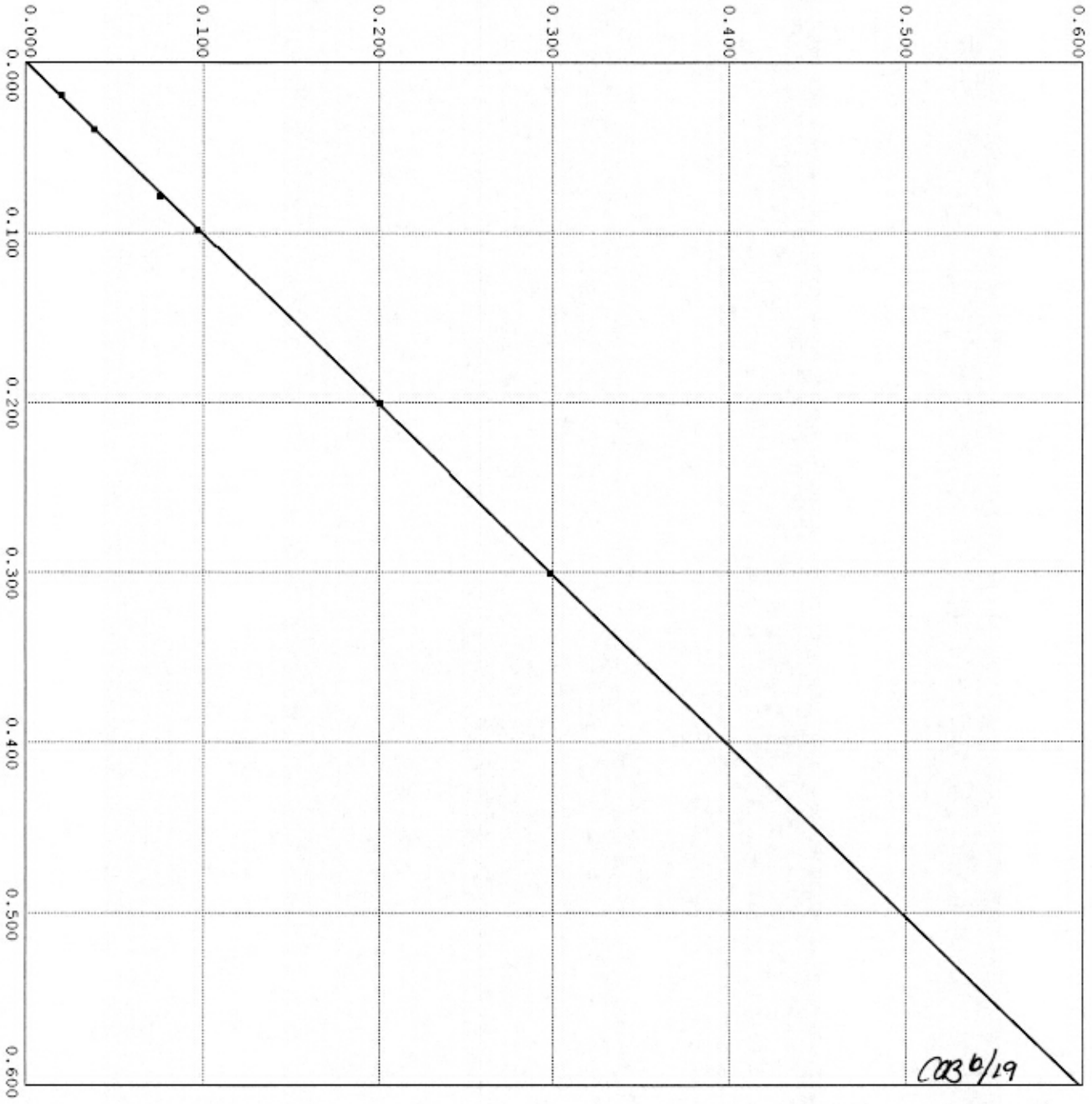
Date: 11/23/2012  
Time: 07:34:44

SUPERVISOR NAME:  
COLLEEN S O'BRYANT  
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.019	0.0209	0.0001
0.039	0.0396	0.0004
0.078	0.0767	0.0003
0.098	0.0977	0.0002
0.200	0.2010	0.0004
0.300	0.2992	0.0009

SLOPE = 0.995798  
R<sup>2</sup> = 0.999893

*Colleen*



LINEARITY CHECK: Control Test 1

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100365  
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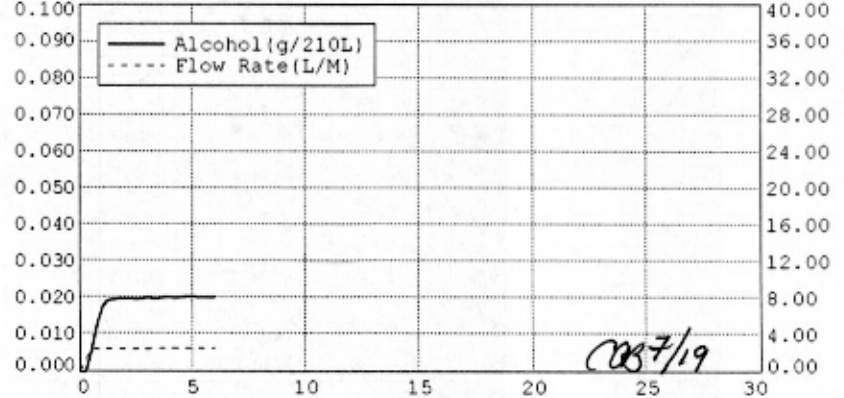
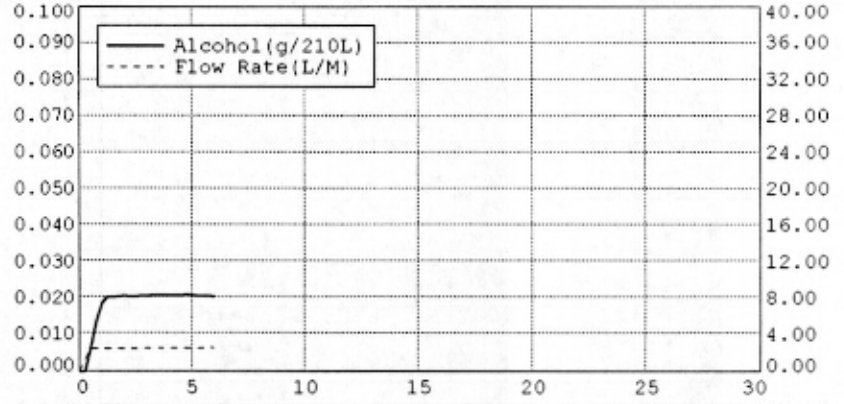
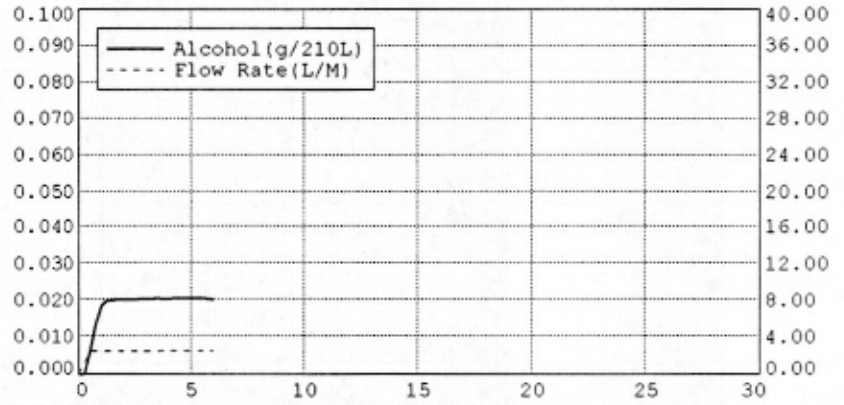
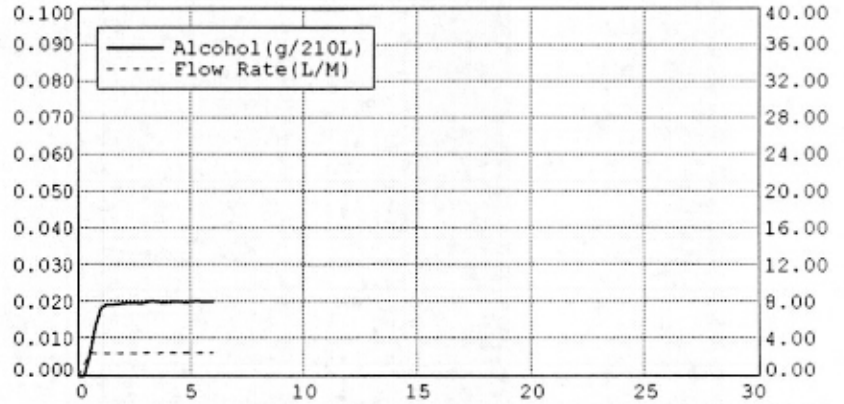
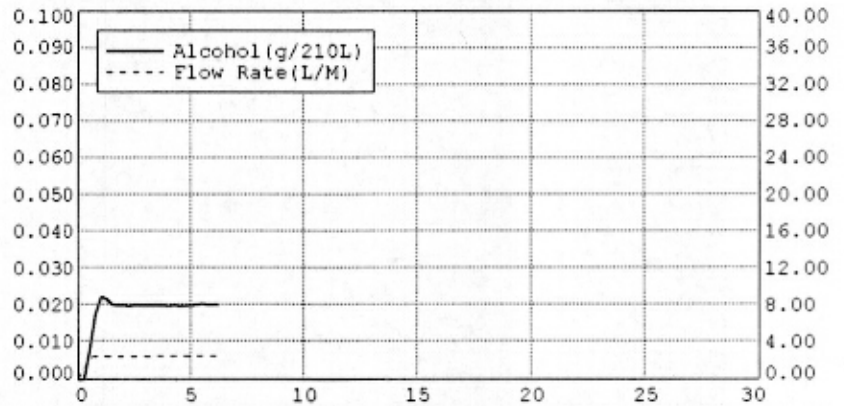
Date: 11/23/2012  
 Time: 07:34:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.36: 0.019  
 LOT #: 07611020A5  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:35
INTERNAL STANDARD	VERIFIED	07:36
EXTERNAL STANDARD	0.020	07:36
BLANK TEST	0.000	07:37
EXTERNAL STANDARD	0.020	07:37
BLANK TEST	0.000	07:38
EXTERNAL STANDARD	0.020	07:38
BLANK TEST	0.000	07:39
EXTERNAL STANDARD	0.021	07:39
BLANK TEST	0.000	07:40
EXTERNAL STANDARD	0.021	07:40
BLANK TEST	0.000	07:41

Average = 0.0209  
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

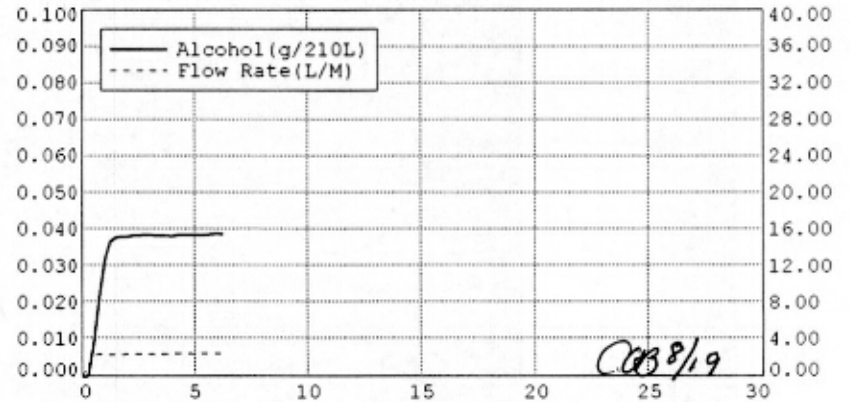
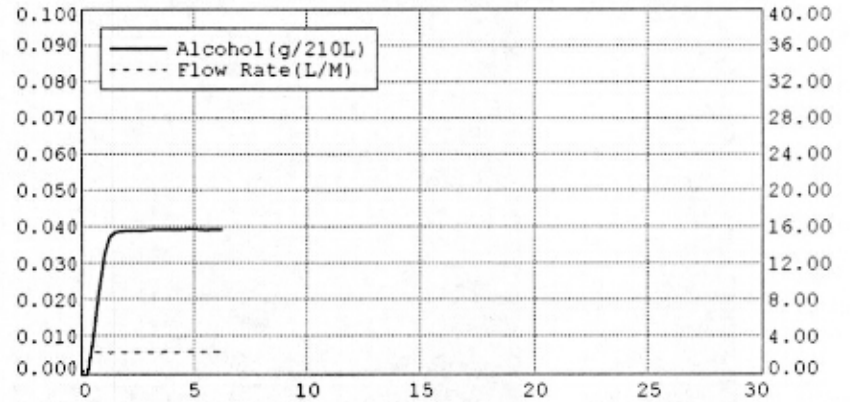
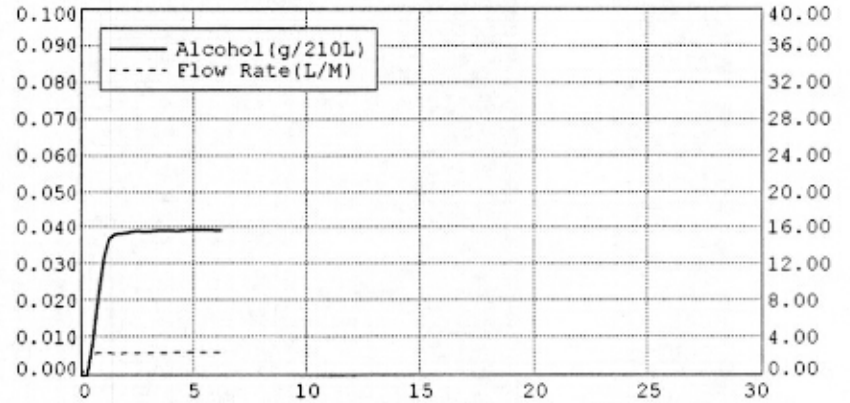
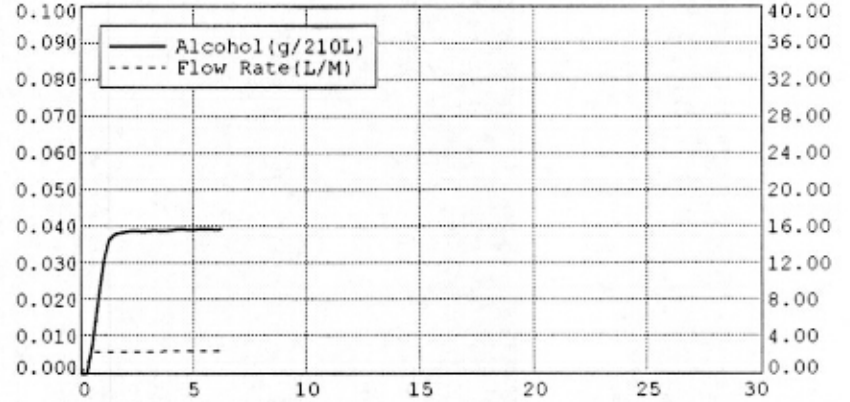
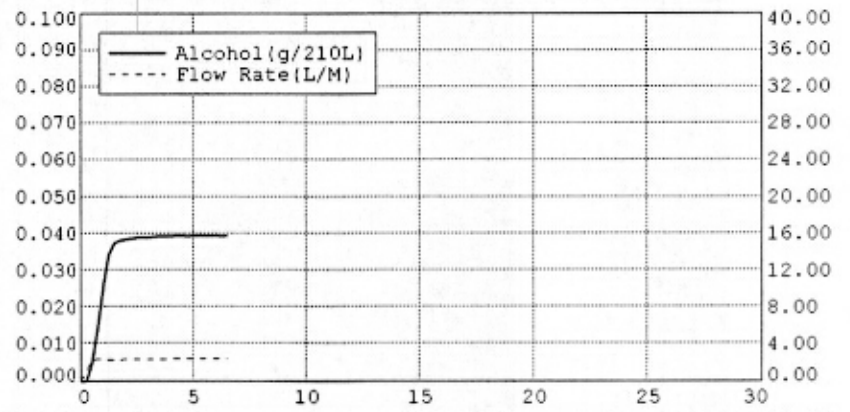
Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 11/23/2012  
Time: 07:41:50

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.040  
TARGET AT 29.36: 0.039  
LOT #: 07611040A4  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:43
INTERNAL STANDARD	VERIFIED	07:43
EXTERNAL STANDARD	0.040	07:43
BLANK TEST	0.000	07:44
EXTERNAL STANDARD	0.039	07:44
BLANK TEST	0.000	07:45
EXTERNAL STANDARD	0.039	07:45
BLANK TEST	0.000	07:46
EXTERNAL STANDARD	0.039	07:46
BLANK TEST	0.000	07:47
EXTERNAL STANDARD	0.038	07:47
BLANK TEST	0.000	07:48

Average = 0.0396  
Std Dev = 0.0004





LINEARITY CHECK: Control Test 3

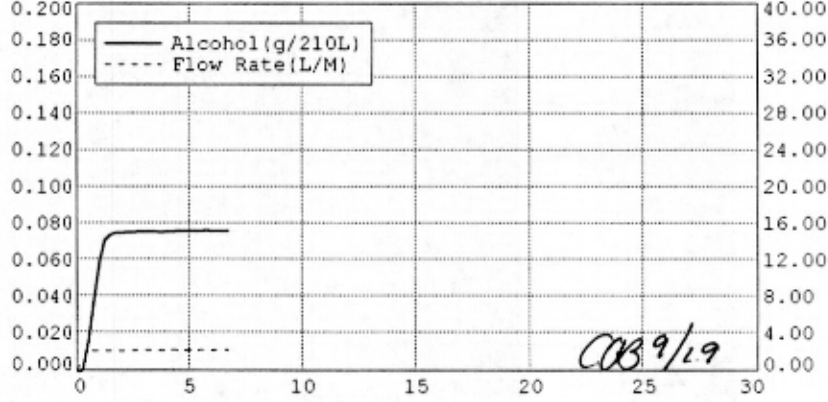
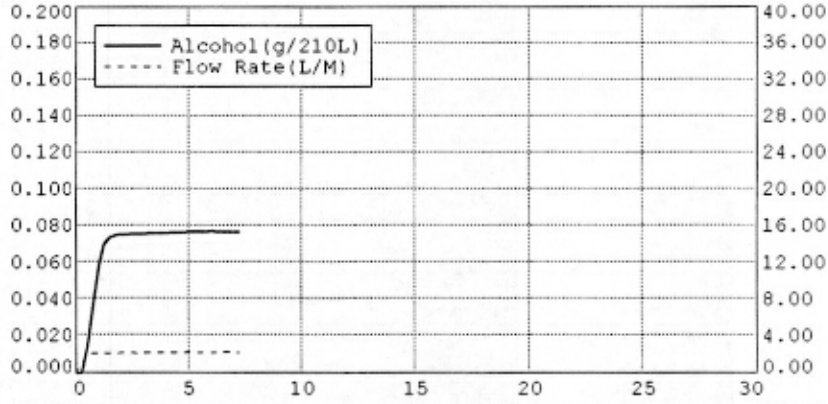
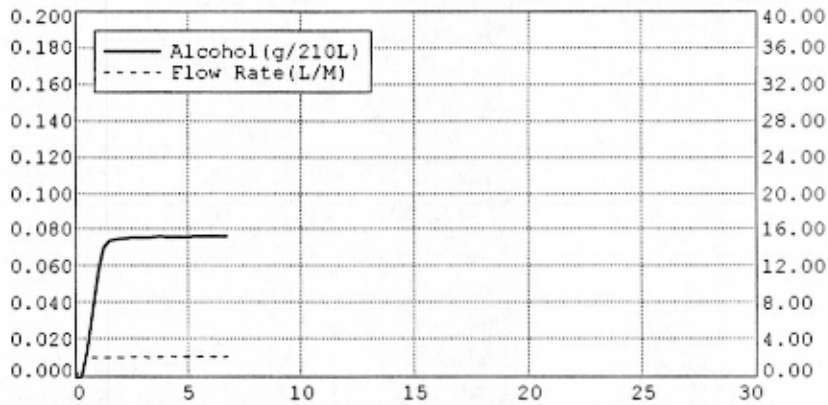
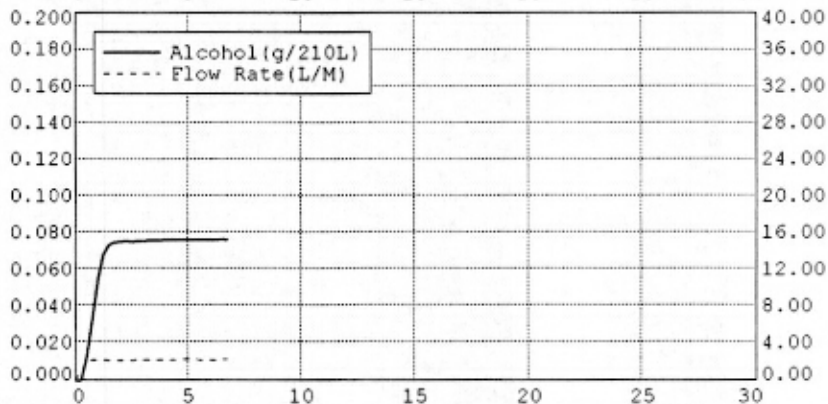
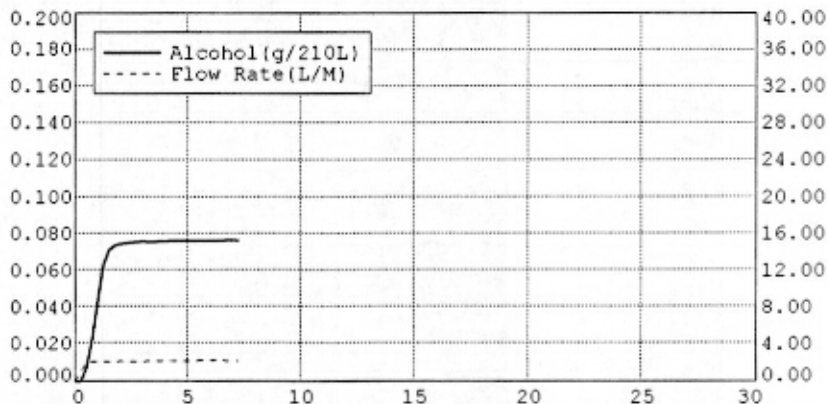
Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 11/23/2012  
Time: 07:50:13

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.36: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:51
INTERNAL STANDARD	VERIFIED	07:51
EXTERNAL STANDARD	0.076	07:51
BLANK TEST	0.000	07:52
EXTERNAL STANDARD	0.076	07:52
BLANK TEST	0.000	07:53
EXTERNAL STANDARD	0.076	07:53
BLANK TEST	0.000	07:54
EXTERNAL STANDARD	0.077	07:55
BLANK TEST	0.000	07:56
EXTERNAL STANDARD	0.076	07:56
BLANK TEST	0.000	07:57

Average = 0.0767  
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

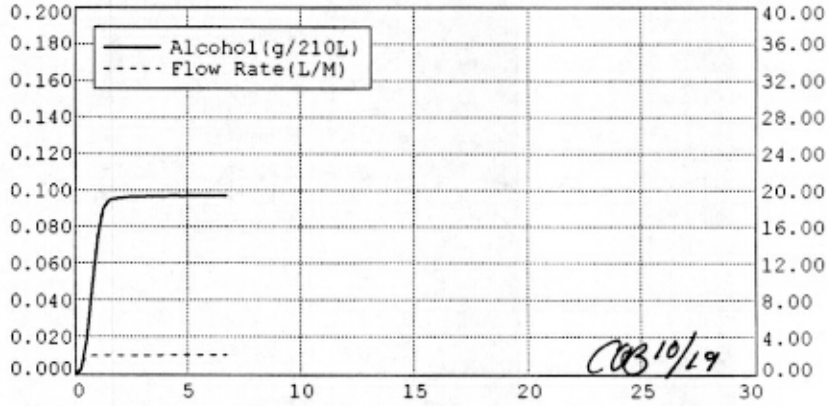
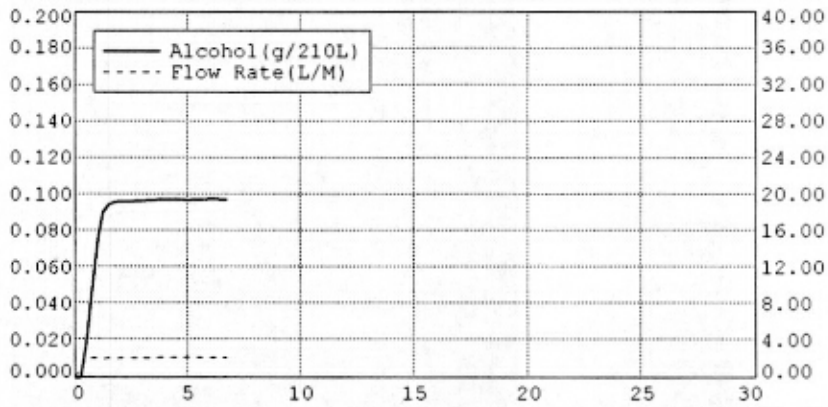
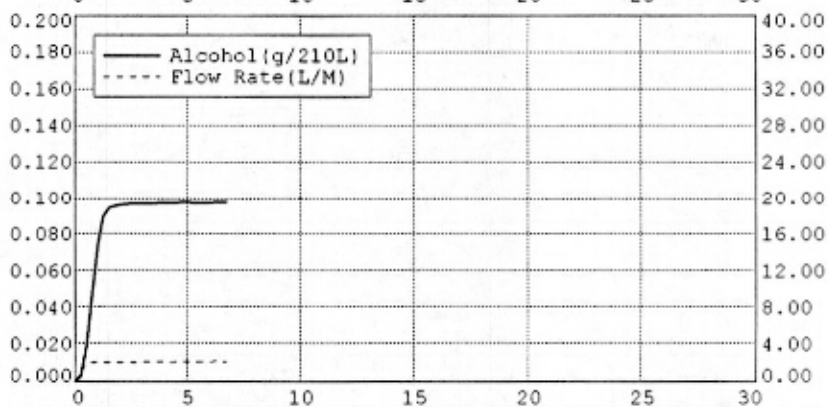
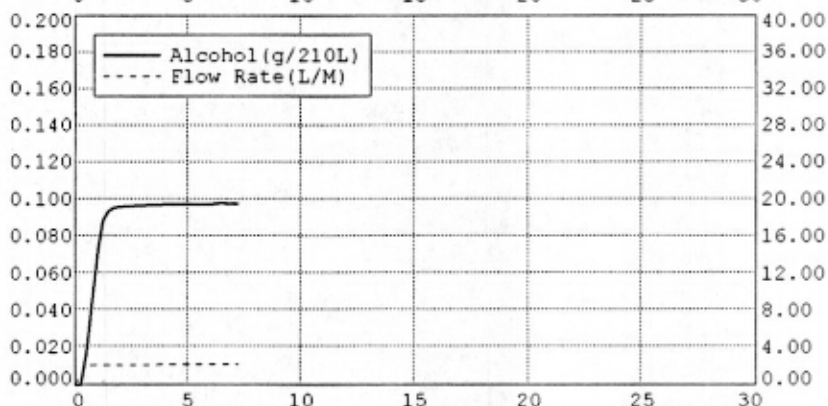
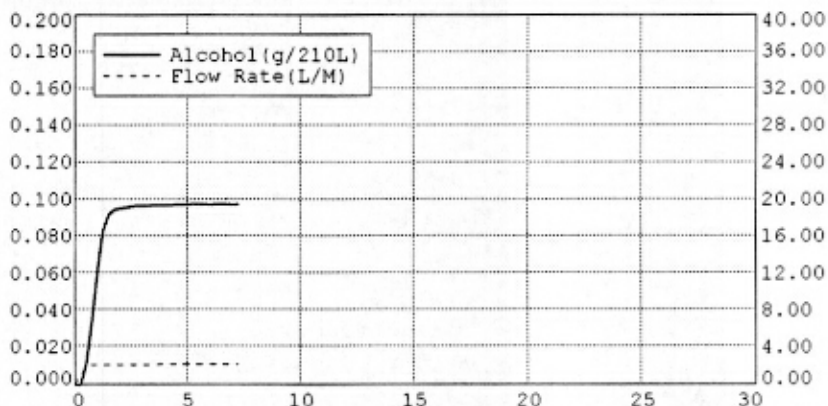
Date: 11/23/2012  
Time: 07:57:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
TARGET AT 29.36: 0.098  
LOT #: 07611100A3  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:59
INTERNAL STANDARD	VERIFIED	07:59
EXTERNAL STANDARD	0.097	07:59
BLANK TEST	0.000	08:00
EXTERNAL STANDARD	0.097	08:00
BLANK TEST	0.000	08:01
EXTERNAL STANDARD	0.097	08:01
BLANK TEST	0.000	08:02
EXTERNAL STANDARD	0.097	08:02
BLANK TEST	0.000	08:03
EXTERNAL STANDARD	0.098	08:04
BLANK TEST	0.000	08:04

Average = 0.0977  
Std Dev = 0.0002



### LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

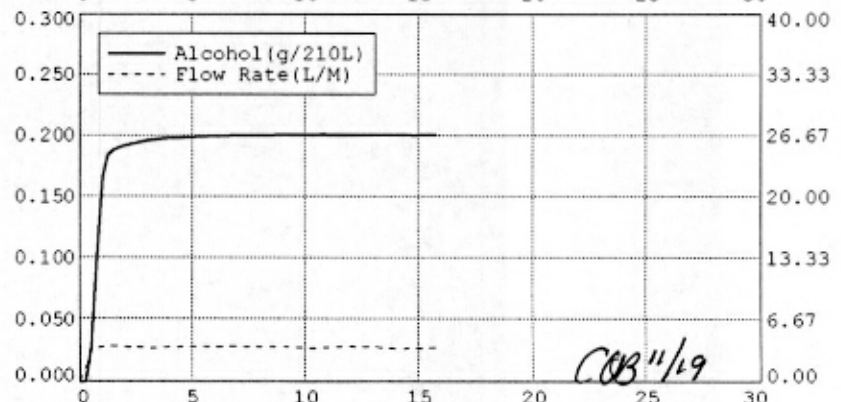
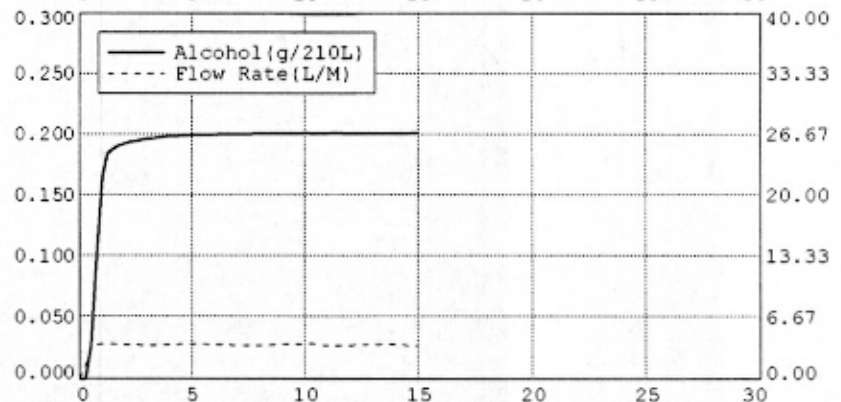
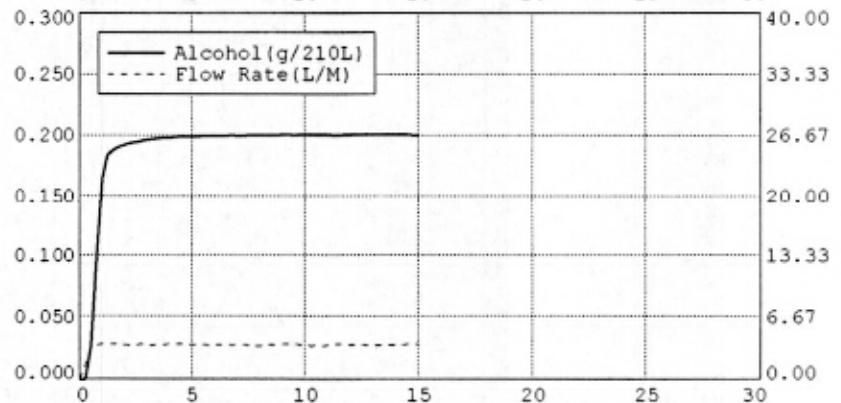
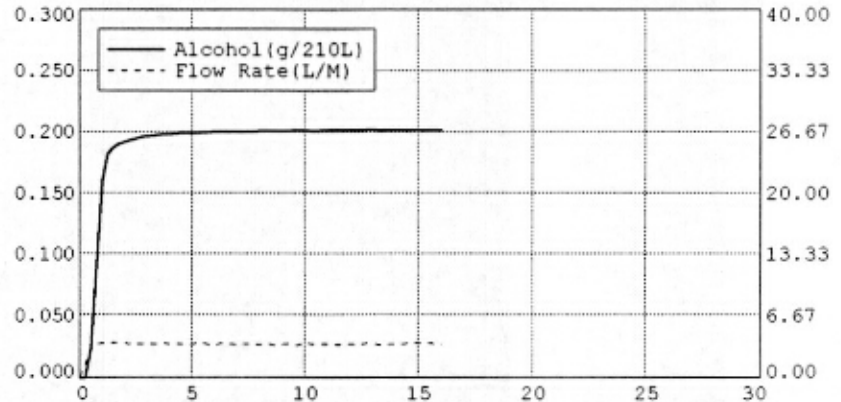
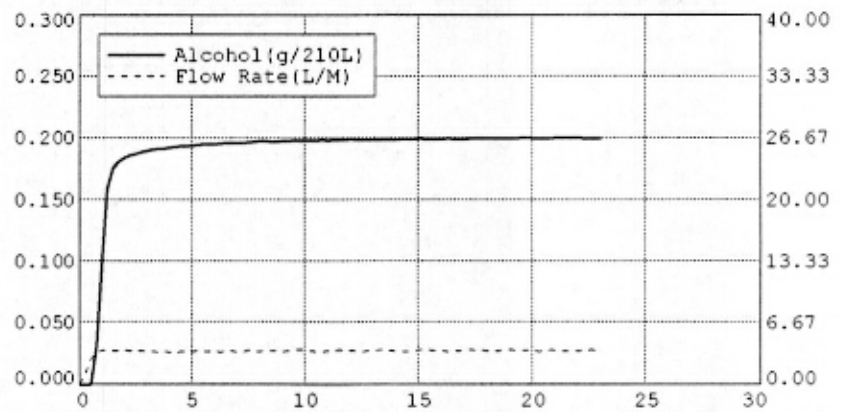
Date: 11/23/2012  
Time: 08:05:17

#### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
LOT #: 11120  
EXPIRATION: 07/19/2013

BLANK TEST	0.000	08:06
INTERNAL STANDARD	VERIFIED	08:06
EXTERNAL STANDARD	0.200	08:07
BLANK TEST	0.000	08:08
EXTERNAL STANDARD	0.201	08:08
BLANK TEST	0.000	08:09
EXTERNAL STANDARD	0.200	08:09
BLANK TEST	0.000	08:10
EXTERNAL STANDARD	0.201	08:11
BLANK TEST	0.000	08:12
EXTERNAL STANDARD	0.201	08:12
BLANK TEST	0.000	08:13

Average = 0.2010  
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

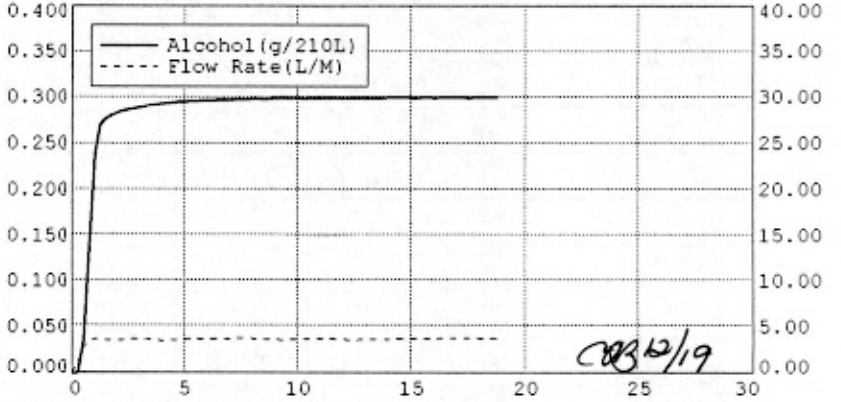
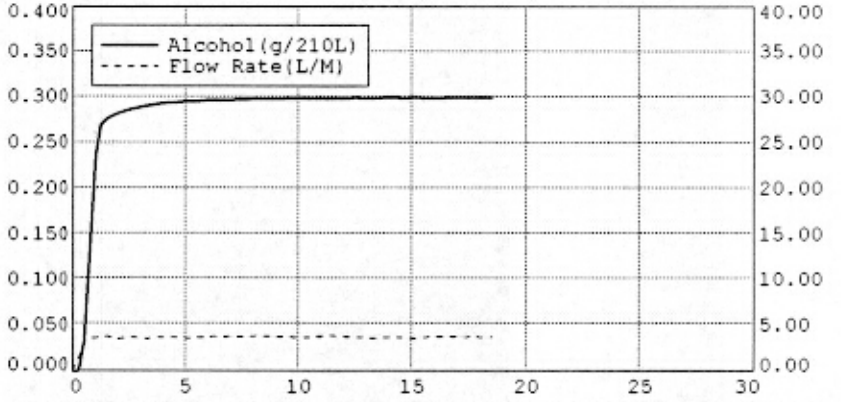
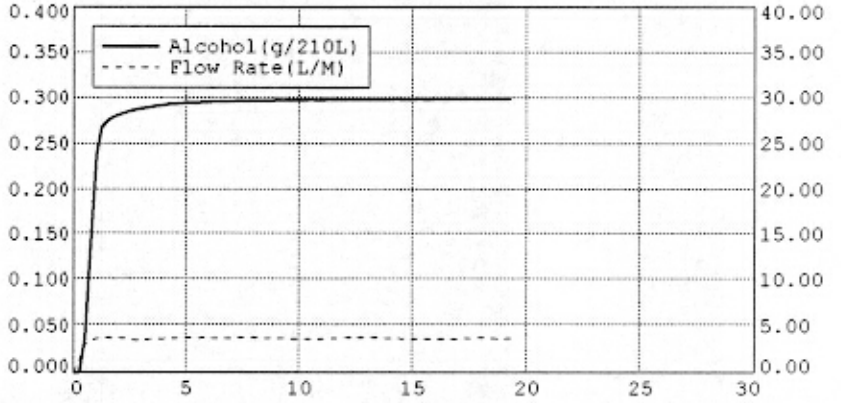
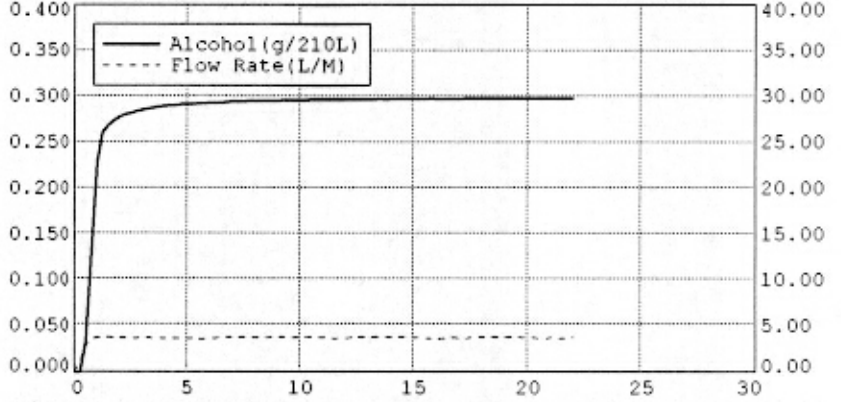
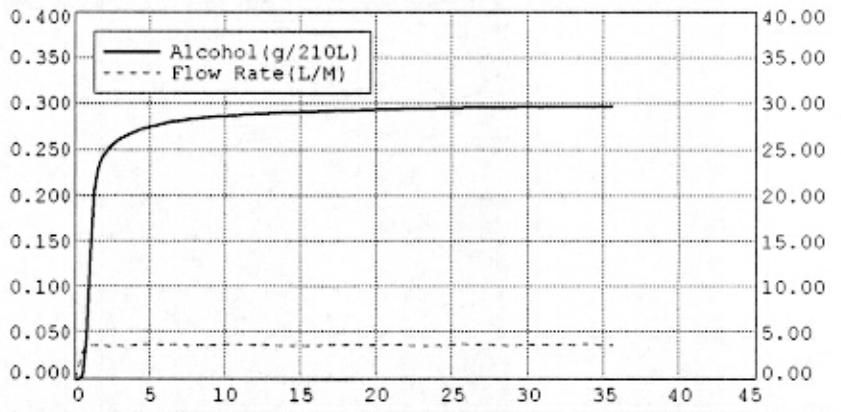
Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 11/23/2012  
Time: 08:15:59

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.300  
LOT #: 12050  
EXPIRATION: 03/21/2014

BLANK TEST	0.000	08:17
INTERNAL STANDARD	VERIFIED	08:17
EXTERNAL STANDARD	0.298	08:17
BLANK TEST	0.000	08:18
EXTERNAL STANDARD	0.298	08:19
BLANK TEST	0.000	08:20
EXTERNAL STANDARD	0.299	08:20
BLANK TEST	0.000	08:21
EXTERNAL STANDARD	0.299	08:22
BLANK TEST	0.000	08:22
EXTERNAL STANDARD	0.300	08:23
BLANK TEST	0.000	08:24

Average = 0.2992  
Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 11/23/2012  
Time: 09:19:45

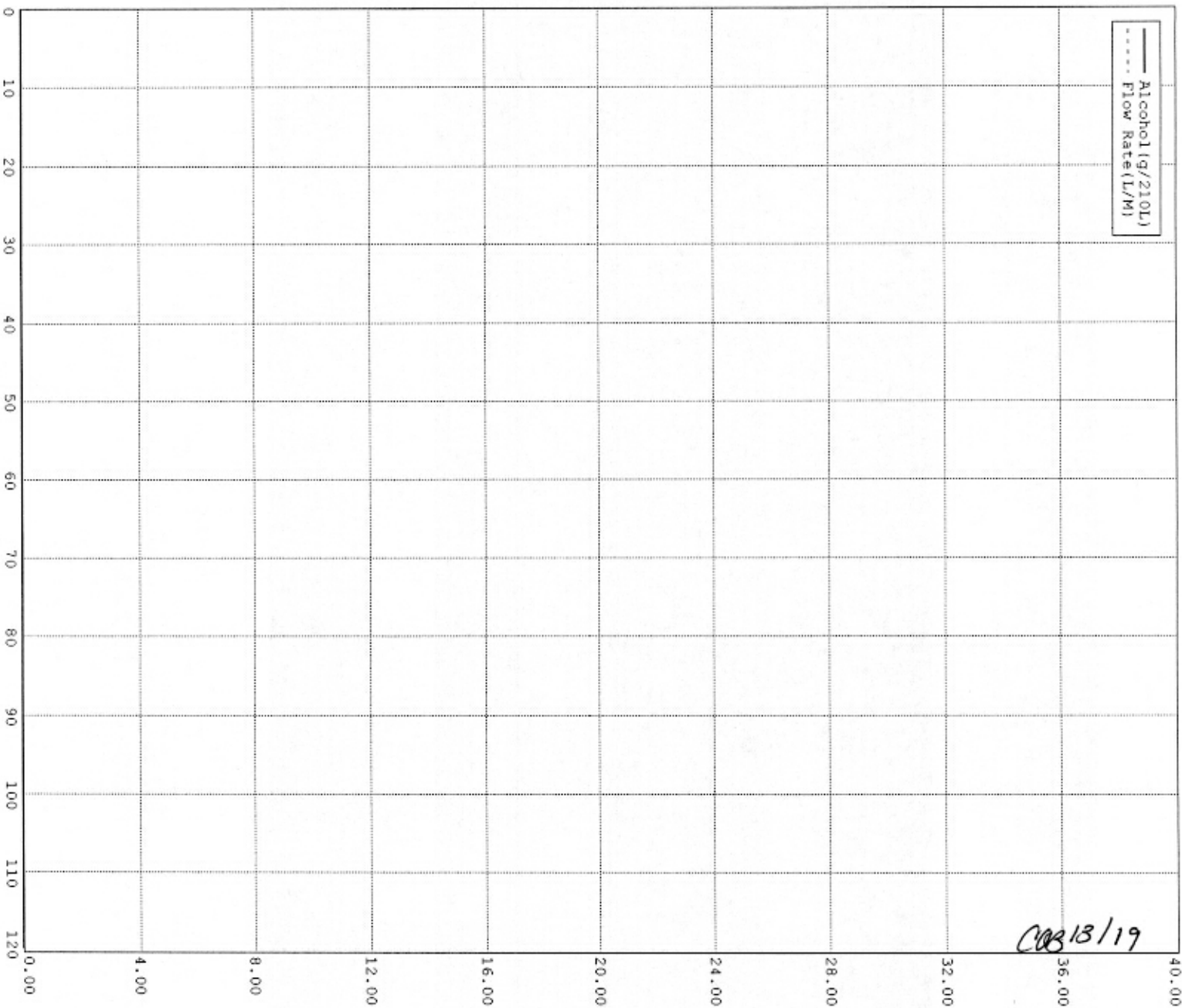
SUBJECT NAME:  
TEST TEST  
LICENSE #: INCOMPLETE

OPERATOR NAME:  
COLLEEN S O'BRYAN  
OPERATOR'S #: 6237

DEPT/AGENCY:  
AAAI  
CASE/REPORT: 12-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.40: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:37
BLANK TEST	0.000	09:37
INTERNAL STANDARD	VERIFIED	09:37
EXTERNAL STANDARD	0.076	09:37
BLANK TEST	0.000	09:38
SUBJECT SAMPLE	INCOMPLETE	09:40



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100365  
Date: 11/23/2012  
Time: 09:43:52

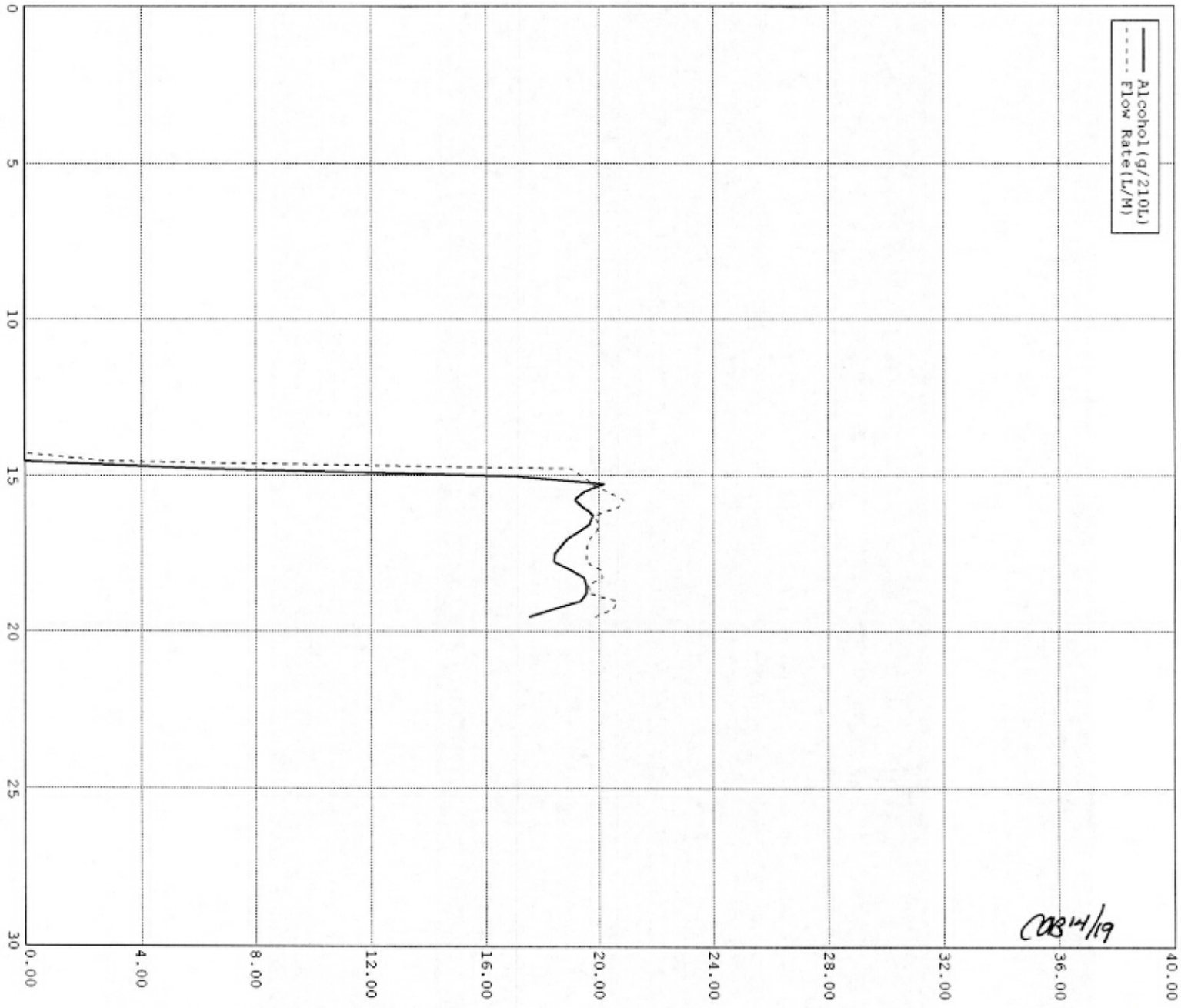
SUBJECT NAME:  
TEST TEST  
LICENSE #: INVALID

OPERATOR NAME:  
COLLEEN S O'BRYANT  
OPERATOR'S #: 6237

DEPT/AGENCY:  
AAAI  
CASE/REPORT: 12-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.40: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:44
BLANK TEST	0.000	09:45
INTERNAL STANDARD	VERIFIED	09:45
EXTERNAL STANDARD	0.076	09:45
BLANK TEST	0.000	09:46
SUBJECT SAMPLE	INVALID	09:47



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 11/23/2012  
Time: 08:50:00

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-ACETONE

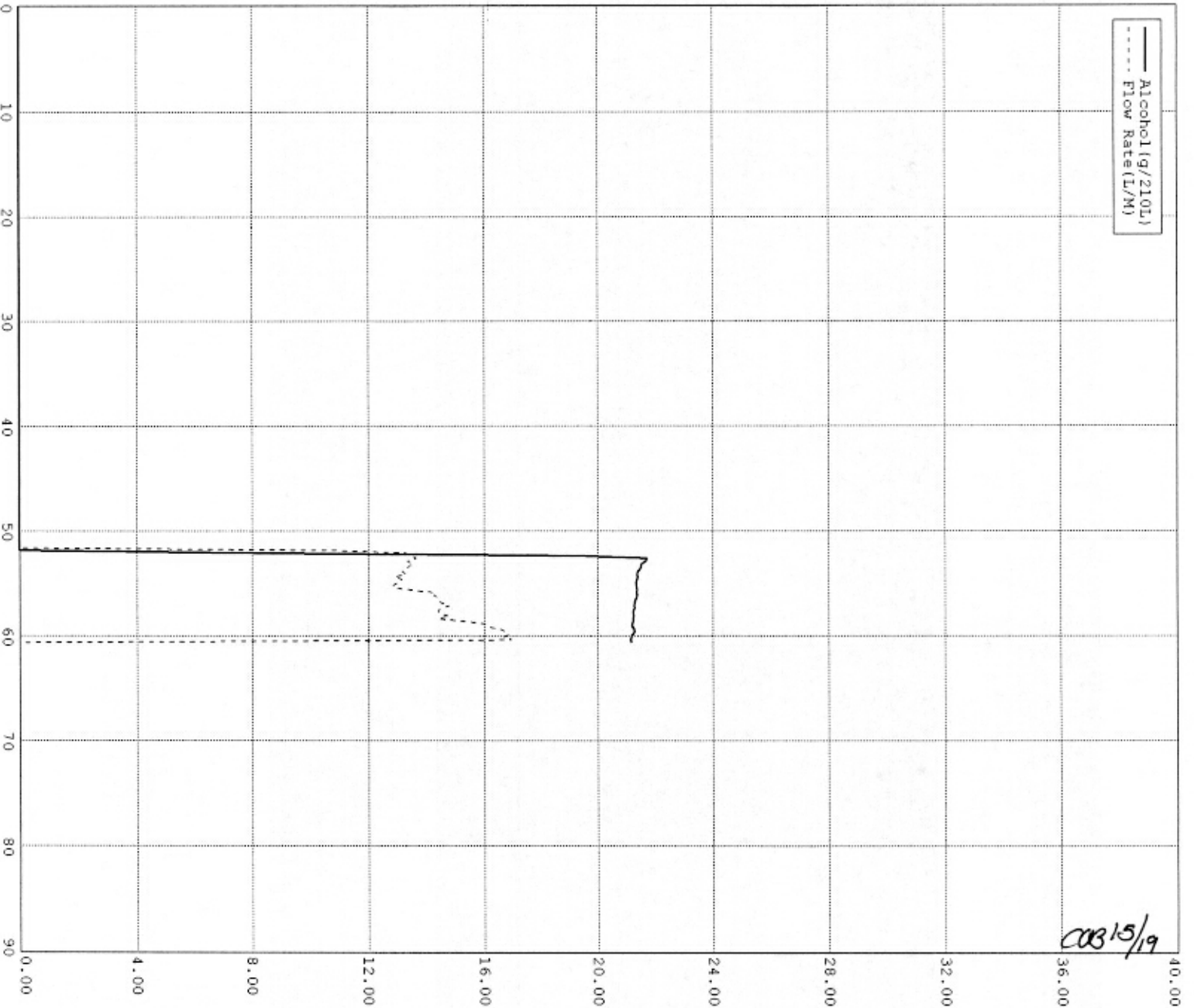
OPERATOR NAME:  
COLIEN S O'BRYANT  
OPERATOR'S #: 6237

DEPT/AGENCY:  
AAA1  
CASE/REPORT: 12-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.37: 0.078  
LOF #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:51
BLANK TEST	0.000	08:51
INTERNAL STANDARD	VERIFIED	08:51
Xd = 0.107 (2.19%)		
EXTERNAL STANDARD	0.076	08:51
X[1] = 0.0761 (-0.0003)	(0.0047)	
BLANK TEST	0.000	08:52
SUBJECT SAMPLE	INTERFERENCE	08:53
X[1] = 0.1061 (-0.0173)	(0.0028)	

COB



COB 11/19

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 11/23/2012  
Time: 08:56:30

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-IPA

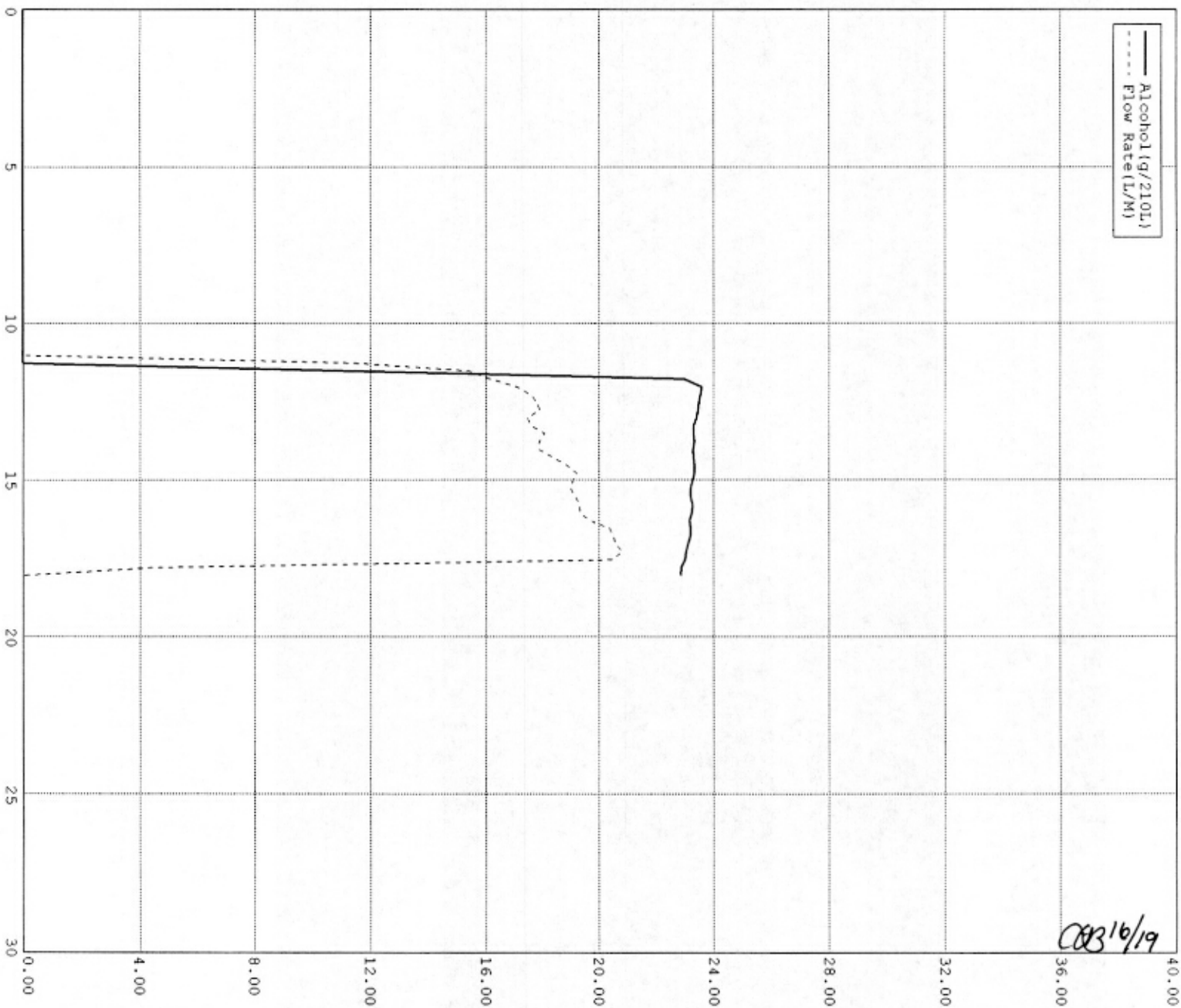
OPERATOR NAME:  
COLLEEN S O'BRYAN  
OPERATOR'S #: 6237

DEPT/AGENCY:  
AAAI  
CASE/REPORT: 12-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.38: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:57
BLANK TEST	0.000	08:57
INTERNAL STANDARD	VERIFIED	08:57
Xq = 0.107 (2.69%)		
EXTERNAL STANDARD	0.076	08:58
X[1] = 0.0768 (0.0002) (0.0047)		
BLANK TEST	0.000	08:59
SUBJECT SAMPLE INTERFERENCE		08:59
X[1] = 0.1143 (-0.0225) (0.0050)		

CSB





SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 11/23/2012  
Time: 09:01:13

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-NEGATIVE

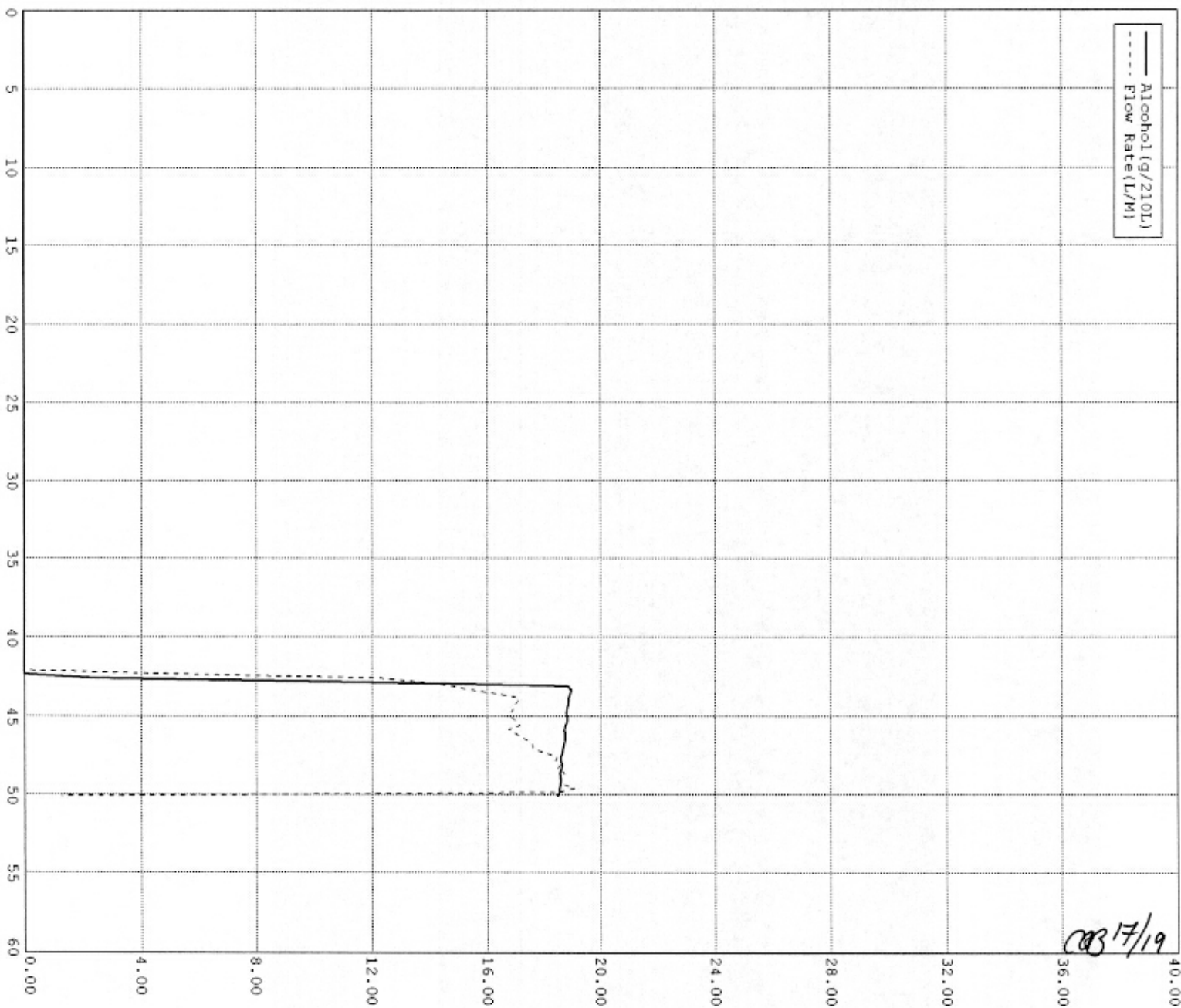
OPERATOR NAME:  
COLLEEN S O'BRYAN  
OPERATOR'S #: 6237

DEPT/AGENCY:  
AAAI  
CASE/REPORT: 12-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.38: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK PASSED 09:02  
BLANK TEST 0.000 09:02  
INTERNAL STANDARD VERIFIED 09:02  
Xq = 0.107 (2.35%)  
EXTERNAL STANDARD 0.076 09:02  
X[1] = 0.0764 (-0.0013) (0.0031)  
BLANK TEST 0.000 09:03  
SUBJECT SAMPLE (Vol=2.16L) 0.092 09:04  
X[1] = 0.0928 (0.0003) (0.0025)  
BLANK TEST 0.000 09:05  
EXTERNAL STANDARD 0.075 09:05  
X[1] = 0.0755 (-0.0014) (0.0032)  
BLANK TEST 0.000 09:06

*CS*



*CS 11/19*

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmtc: 100365

Date: 11/23/2012  
Time: 09:49:23

SUBJECT NAME:  
TEST TEST  
LICENSE #: RFI

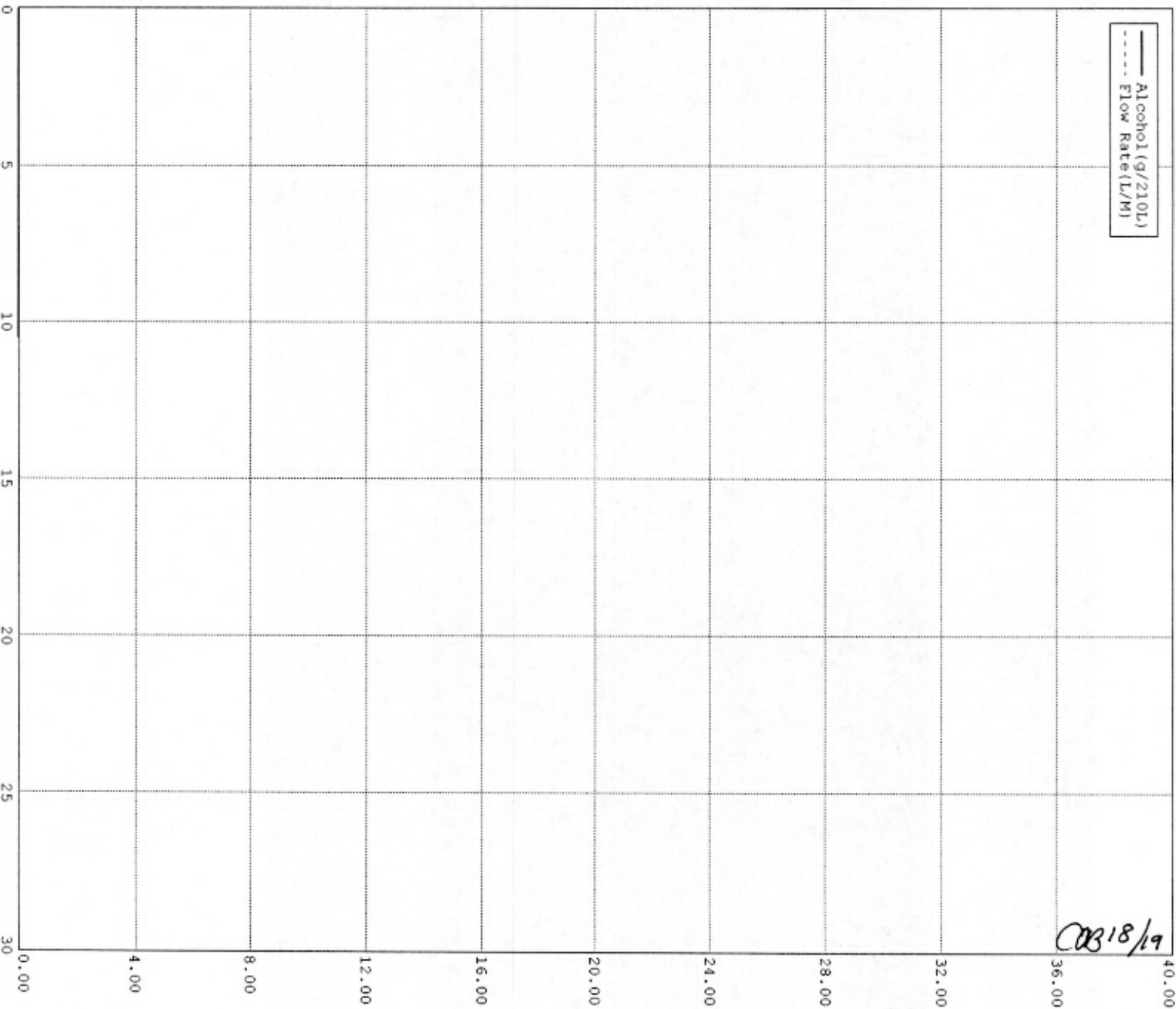
OPERATOR NAME:  
COLLEEN S O'BRYAN  
OPERATOR'S #: 6237

DEPT/AGENCY:  
AAA1  
CASE/REPORT: 12-12  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.40: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:50
BLANK TEST	0.000	09:50
INTERNAL STANDARD	VERIFIED	09:50
EXTERNAL STANDARD	0.076	09:50
BLANK TEST	0.000	09:51

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100365

Date: 11/23/2012  
Time: 10:04:13

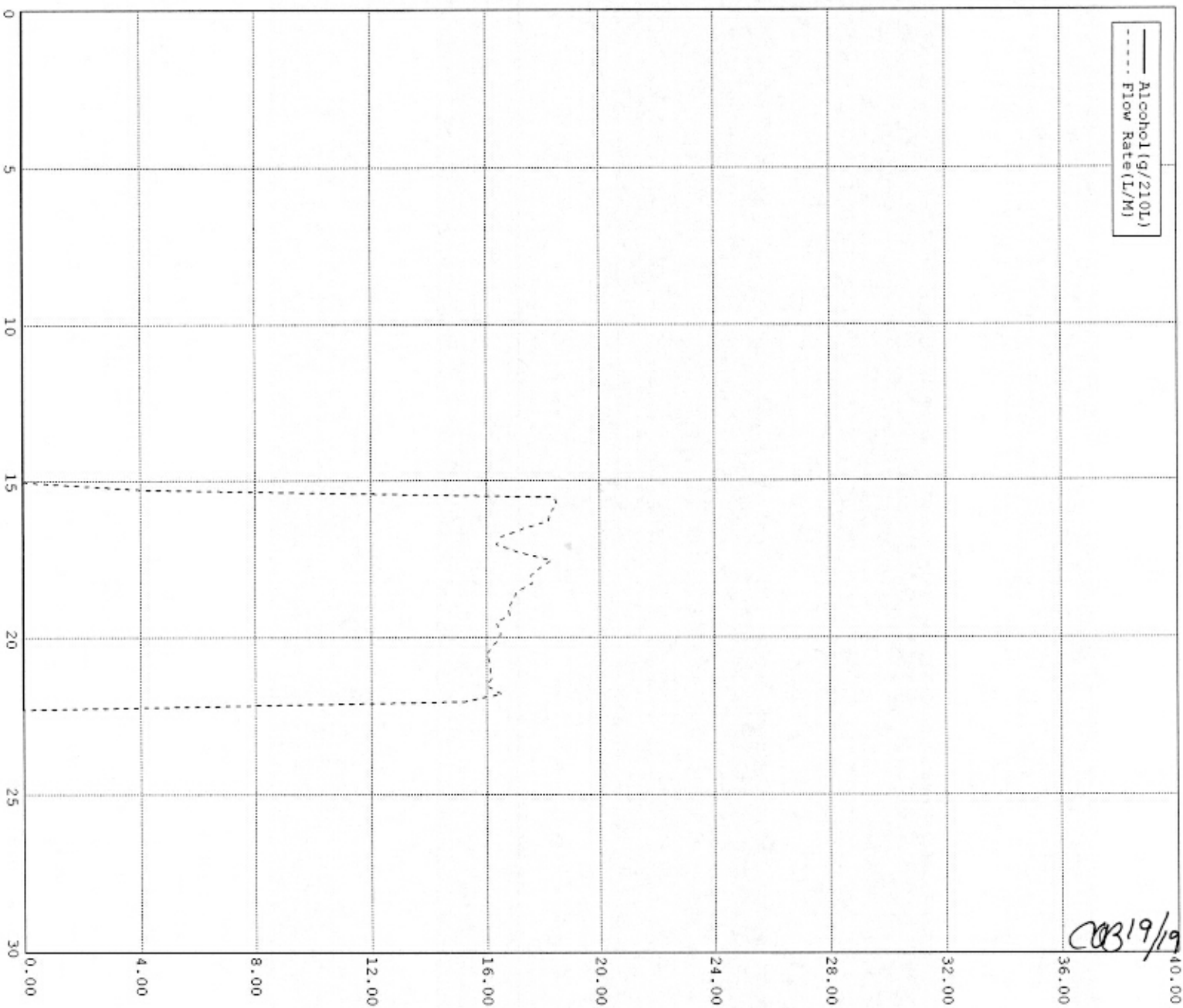
SUBJECT NAME:  
TEST TEST  
LICENSE #: NONDRINKING

OPERATOR NAME:  
COLLEEN S O'BRYAN  
OPERATOR'S #: 6237

DEPT/AGENCY:  
AAA1  
CASE/REPORT: 12-12  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.41: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:05
BLANK TEST	0.000	10:05
INTERNAL STANDARD	VERIFIED	10:05
EXTERNAL STANDARD	0.076	10:05
BLANK TEST	0.000	10:06
SUBJECT SAMPLE	0.000	10:07
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.076	10:08
BLANK TEST	0.000	10:09



Final page for report

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3/7/2014