

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100420 Analyst Colleen Start Date 11/13/12

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 02012080A1 Exp 03/01/2014

iv. 0.100g/210L Mnf ILMO Lot 07611100A3 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 0.10 Exp 07/06/2013

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

ii. Isopropanol - Mnf Guth Lot 11250 Level 0.10 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 11/15/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 11/13/2012
Time: 10:25:53

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 46.4°C	PASSED

PUMP INFO	
Flow Rate = 5.406 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
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Technician Screen

DATAMASTER dmt: 100420

Date: 11/13/2012

Time: 10:32 AM

Temperatures (°C)

Sample Cell: 49.1°C

Breath Tube: 45.7°C

Current Barometer 29.8 in

Volume (Ltr) 1.57

Settings

Lamp: 1.89 V

Bias: 80 V

Cooler: 1.71 V

Chopper: 536 Hz

Voltages (V)

Flow: 1.06 V

Detector: -0.030 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100420

Date: 05/18/2011
Time: 13:54:20

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca = 0.1000
CAL = 0.987303 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0034 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0794 0.0500 <= Xq < 0.2000
a21 = 1.113495 1.050 <= a21 < 1.300
a31 = 0.362455 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100420

Date: 11/13/2012
 Time: 10:33:19

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

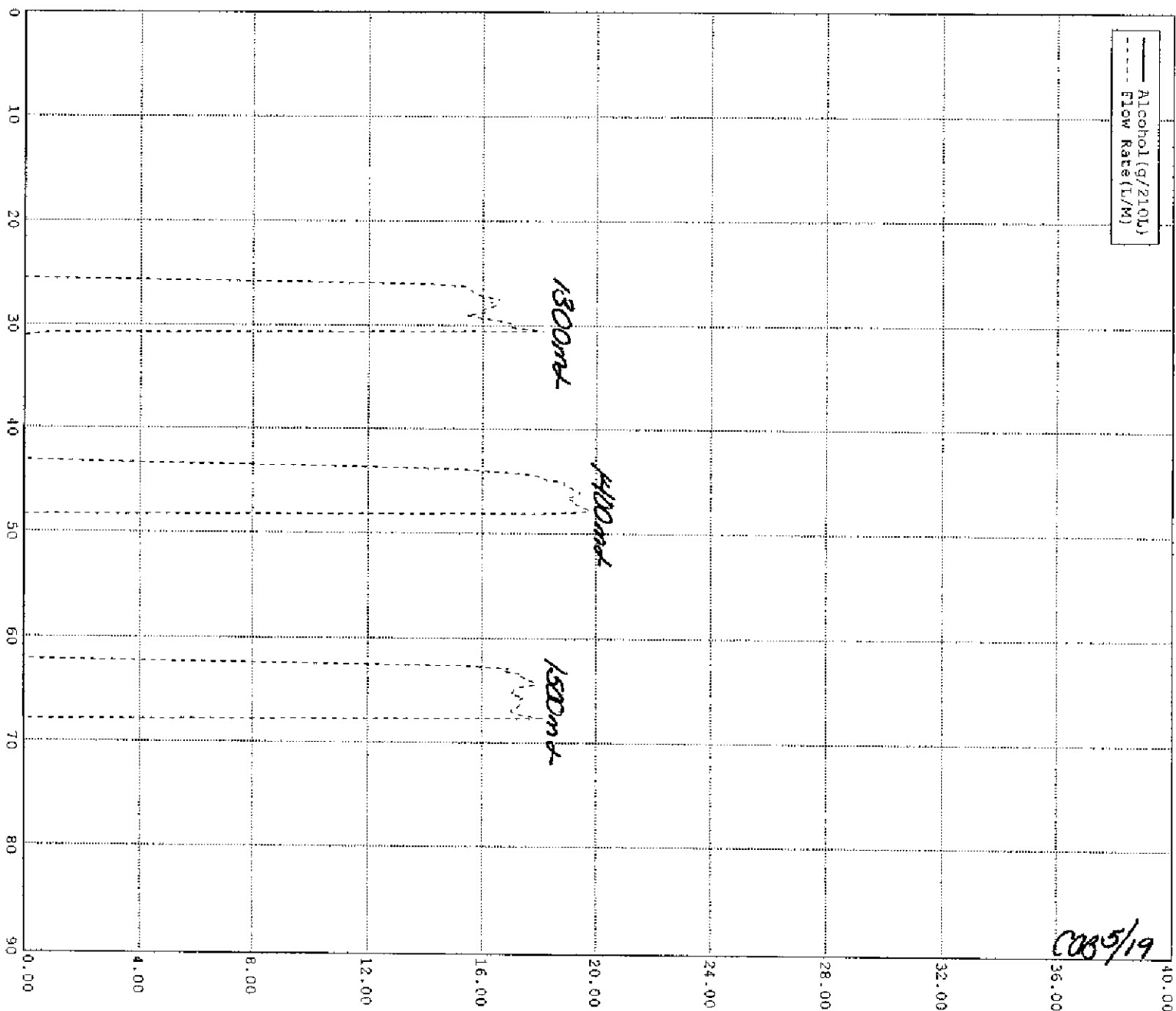
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.77: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:34
BLANK TEST	0.000	10:34
INTERNAL STANDARD	VERIFIED	10:34
EXTERNAL STANDARD	0.081	10:35
BLANK TEST	0.000	10:36
SUBJECT SAMPLE	0.000	10:37
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.080	10:38
BLANK TEST	0.000	10:39

CB



LINEARITY CHECK

Alaska Department of Public Safety
 DAYMASTER dmt: 100420

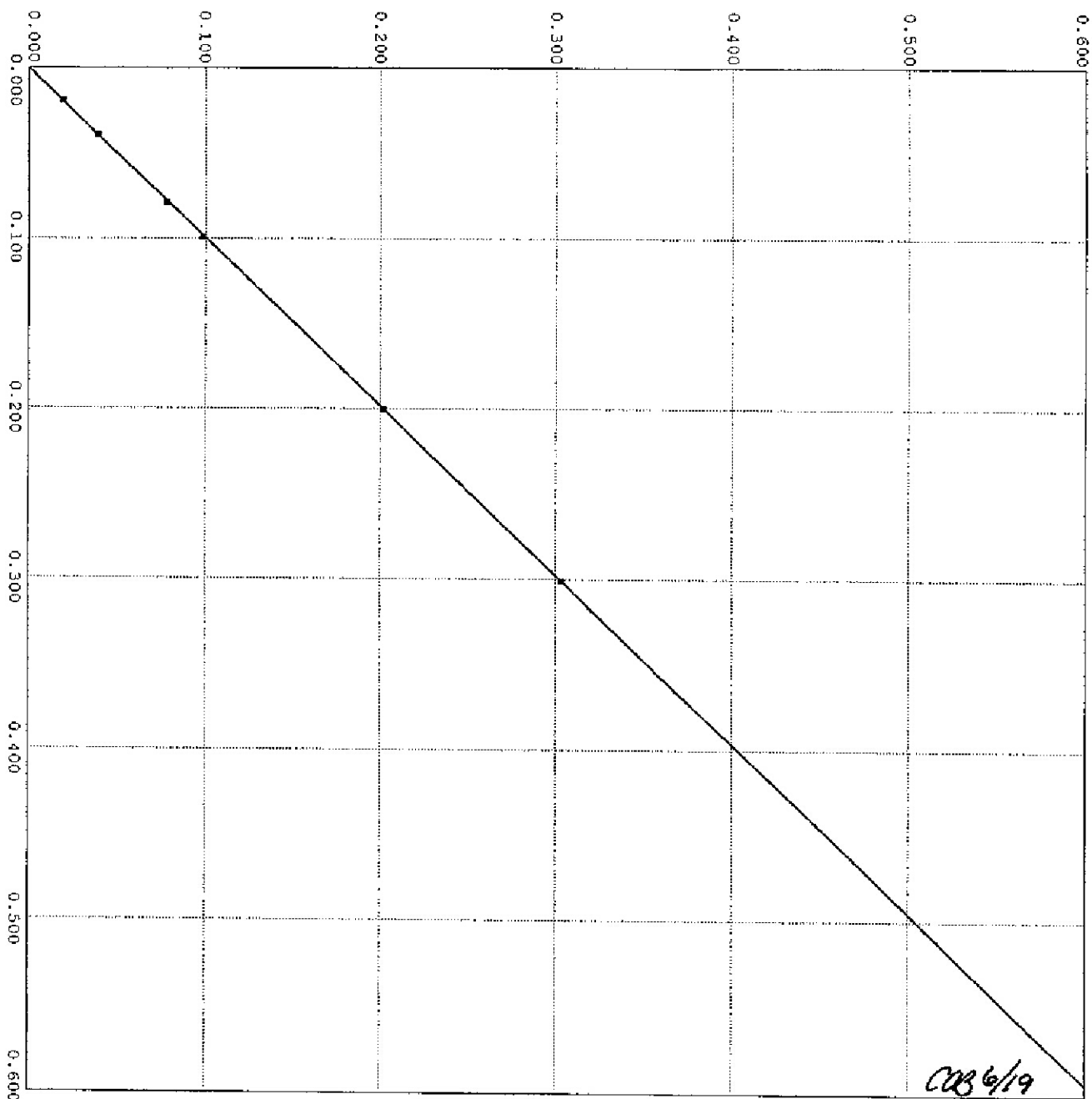
Date: 11/13/2012
 Time: 10:48:22

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0201	0.0007
0.039	0.0404	0.0001
0.079	0.0791	0.0001
0.099	0.0993	0.0005
0.200	0.2026	0.0007
0.300	0.3042	0.0006

SLOPE = 1.012047
 R^2 = 0.999942

Colleen



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100420

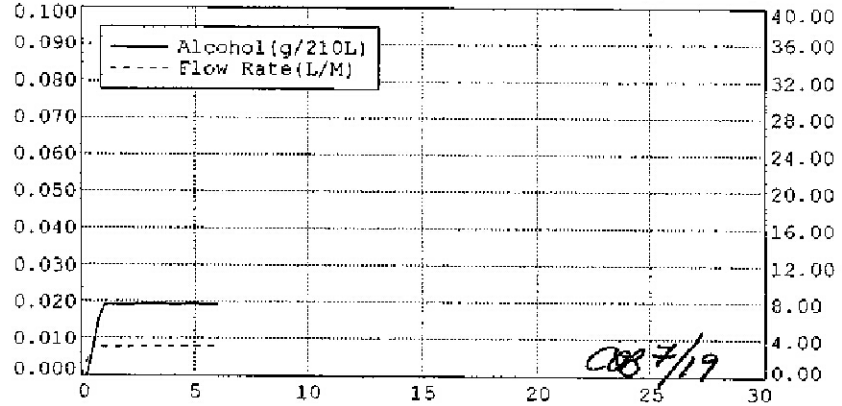
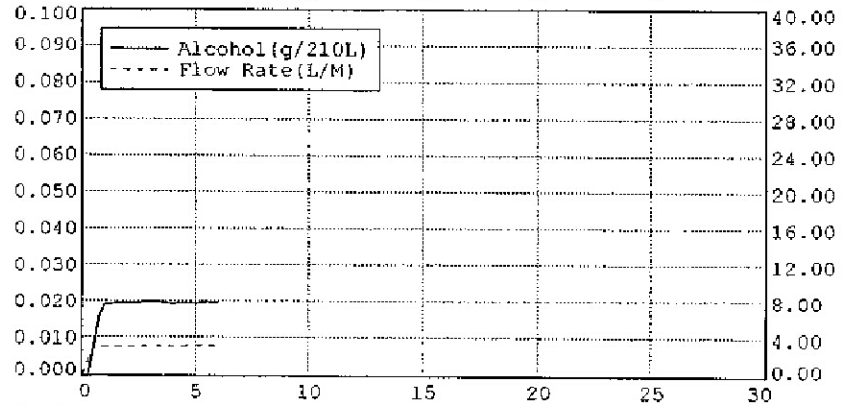
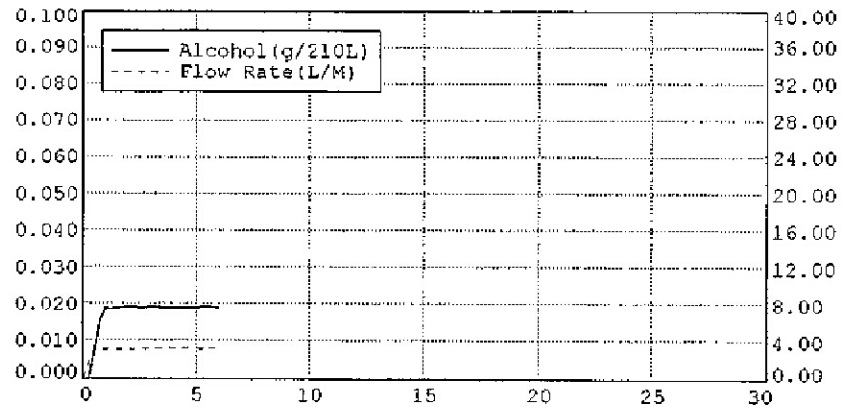
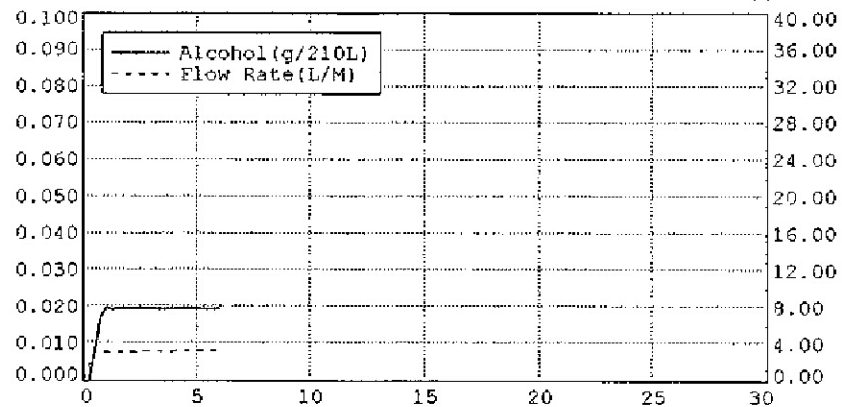
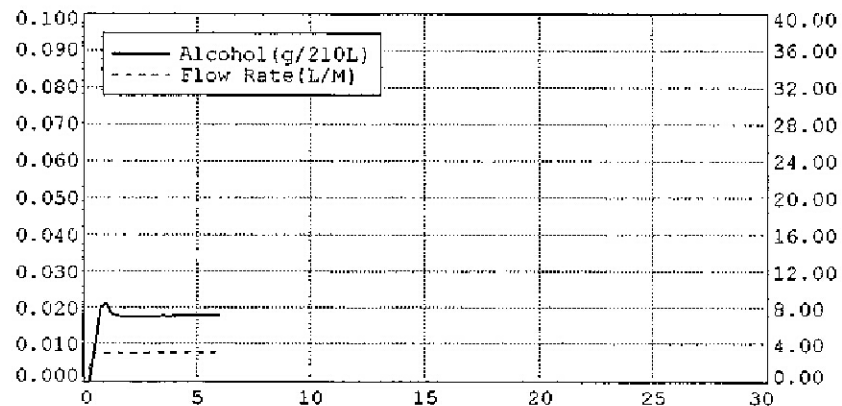
Date: 11/13/2012
Time: 10:48:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.76: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:49
INTERNAL STANDARD	VERIFIED	10:49
EXTERNAL STANDARD	0.018	10:49
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.020	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.020	10:52
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.020	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.020	10:54
BLANK TEST	0.000	10:55

Average = 0.0201
Std Dev = 0.0007



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100420

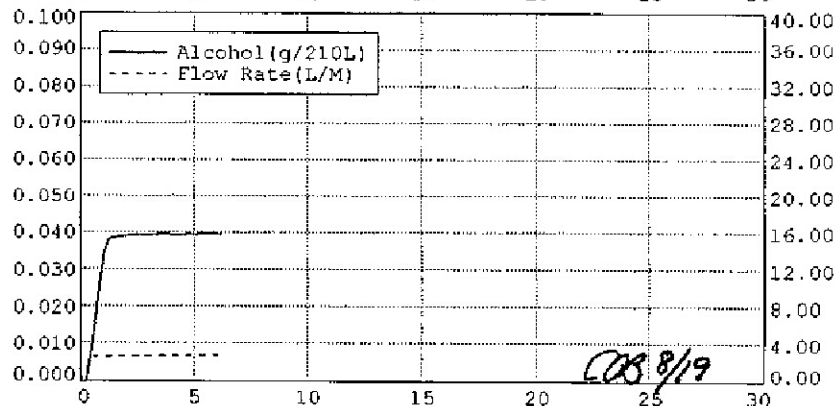
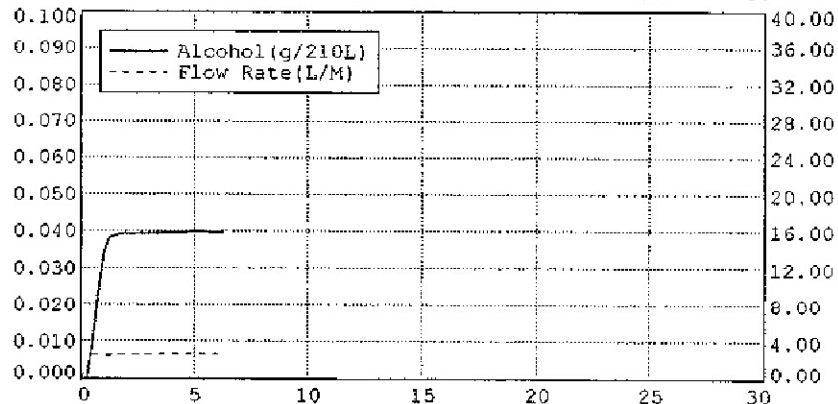
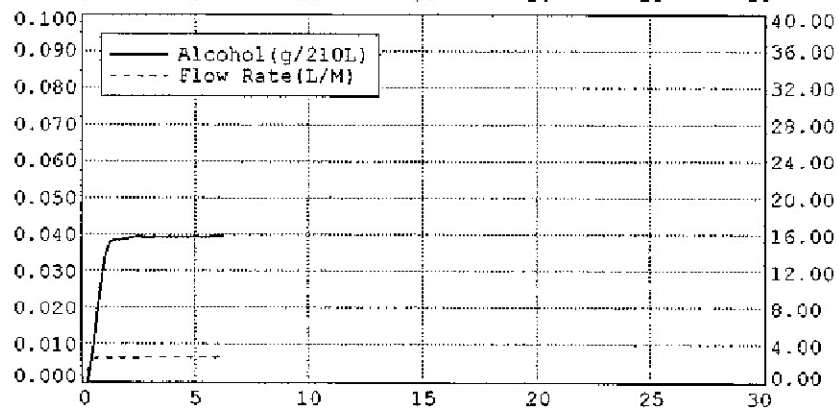
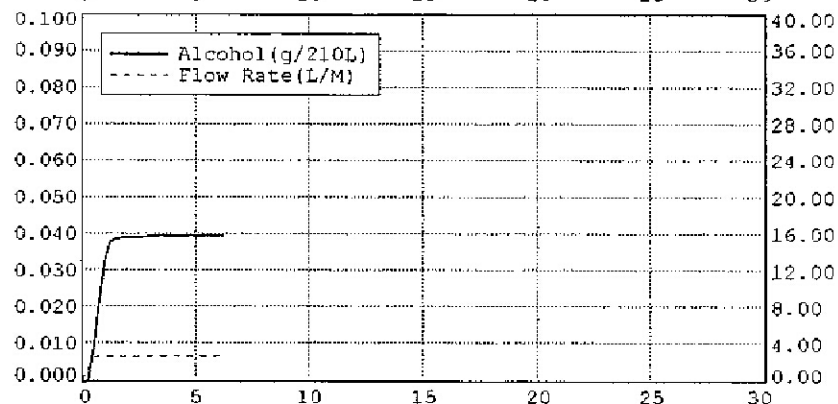
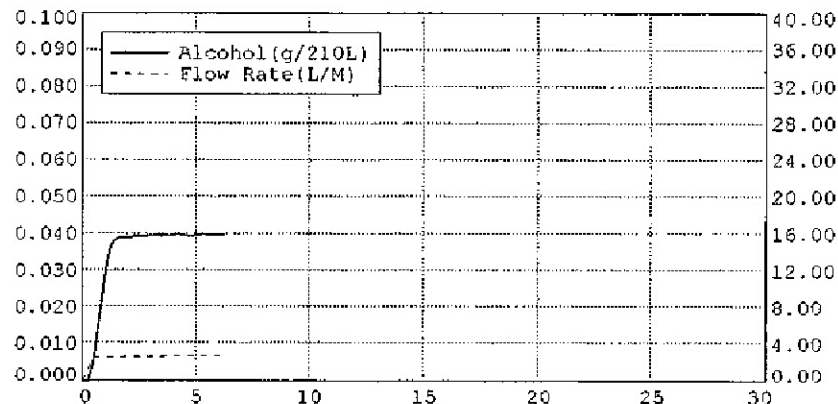
Date: 11/13/2012
Time: 10:56:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.76: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:58
INTERNAL STANDARD	VERIFIED	10:58
EXTERNAL STANDARD	0.040	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.040	10:59
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.040	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.040	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.040	11:02
BLANK TEST	0.000	11:03

Average = 0.0404
Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100420

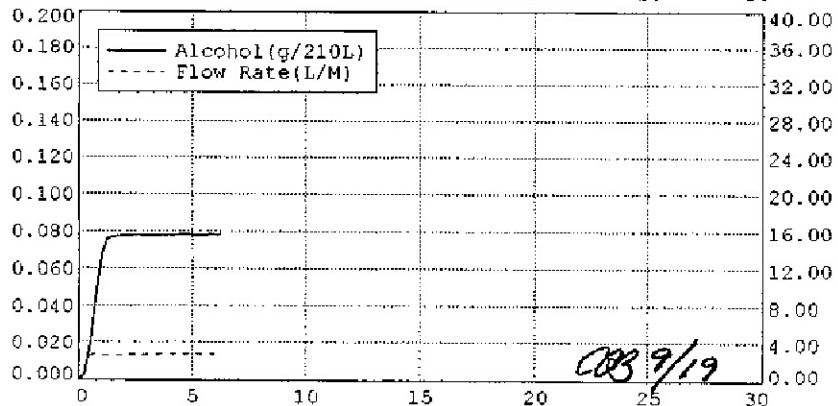
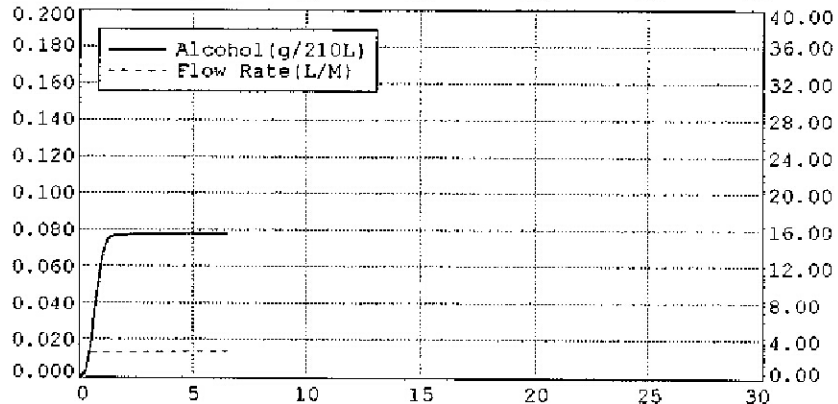
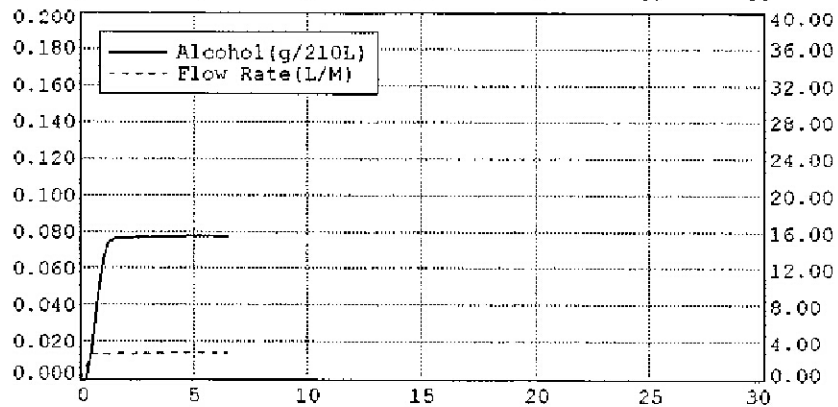
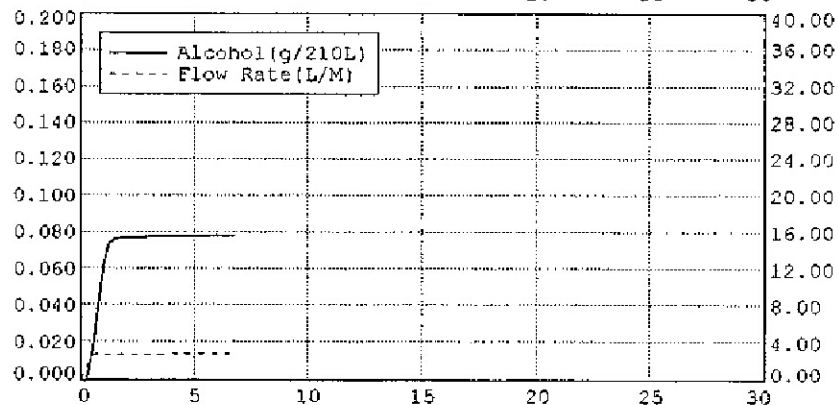
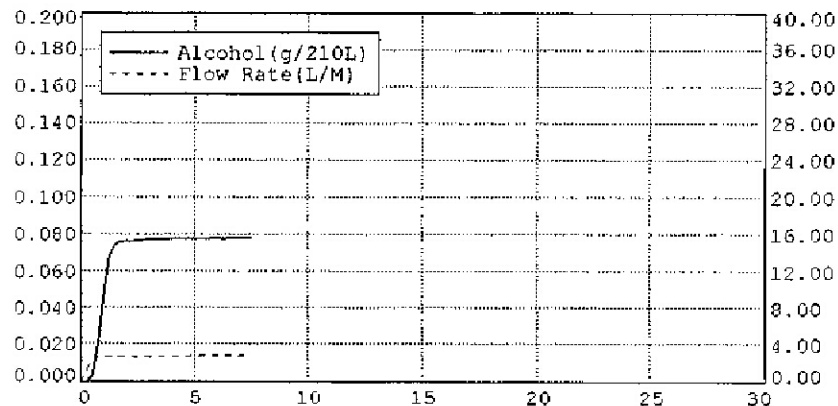
Date: 11/13/2012
Time: 13:48:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.69: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	13:49
INTERNAL STANDARD	VERIFIED	13:49
EXTERNAL STANDARD	0.079	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.079	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.079	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.079	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.079	13:54
BLANK TEST	0.000	13:55

Average = 0.0791
Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100420

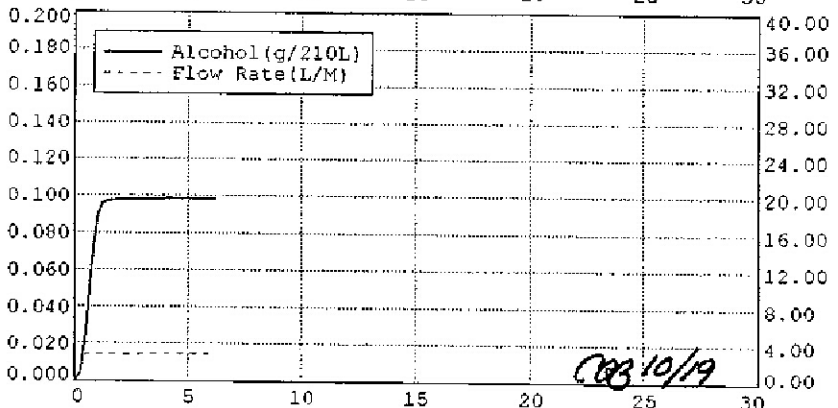
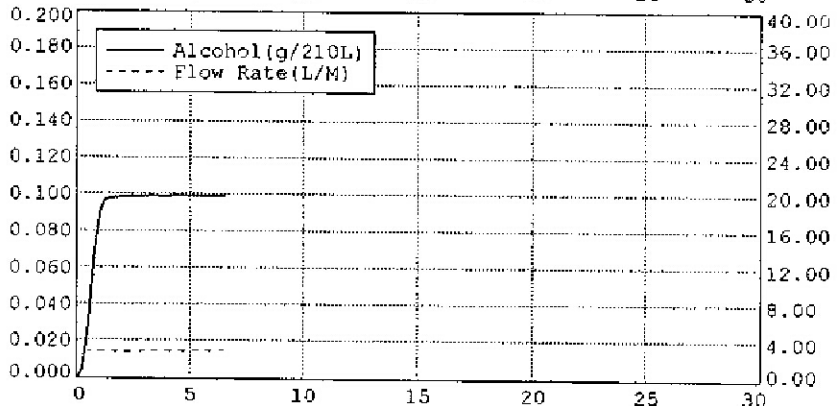
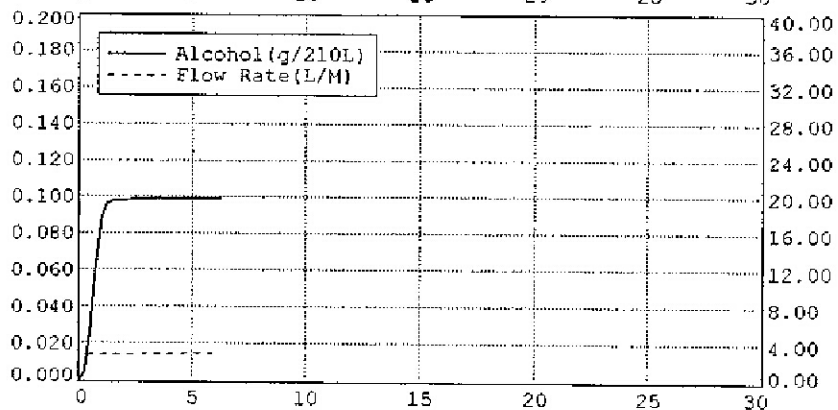
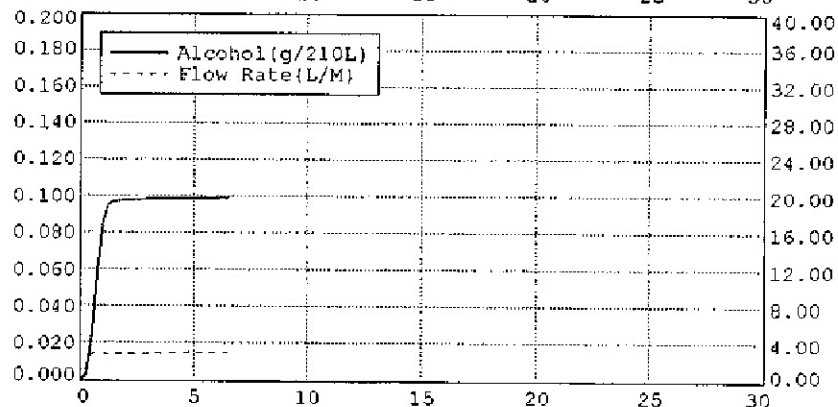
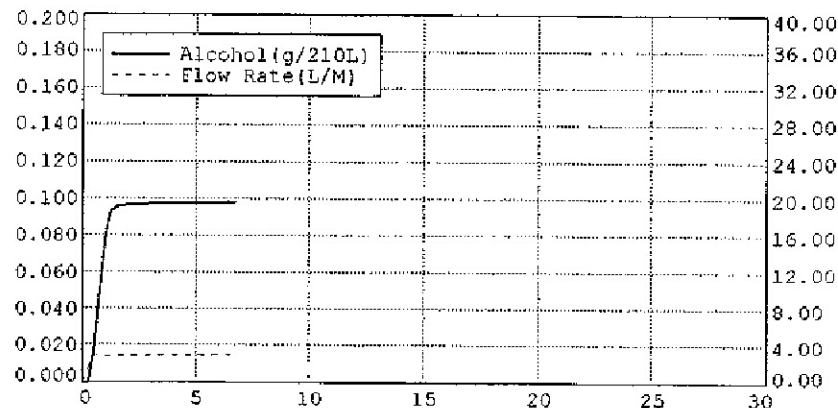
Date: 11/13/2012
Time: 13:56:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.69: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.098	13:57
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.099	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.099	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.099	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.099	14:02
BLANK TEST	0.000	14:03

Average = 0.0993
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100420

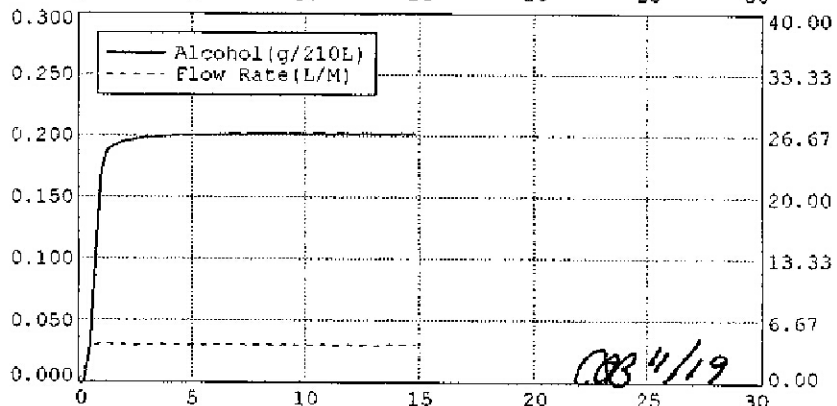
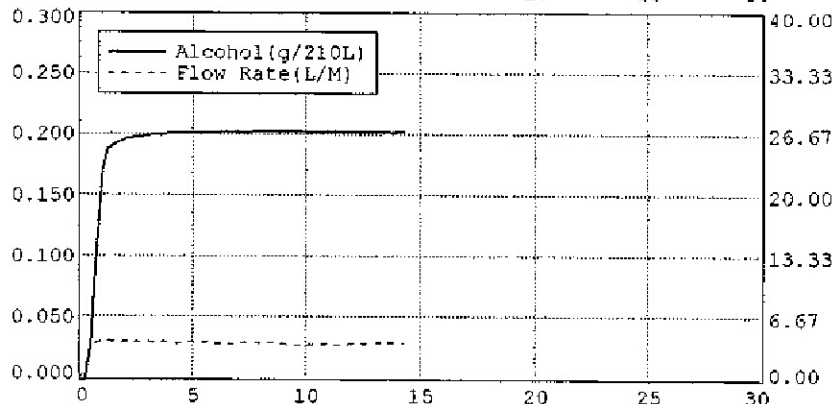
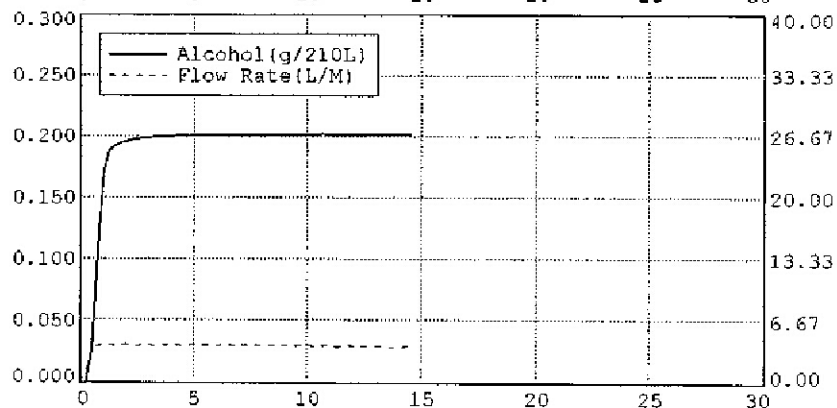
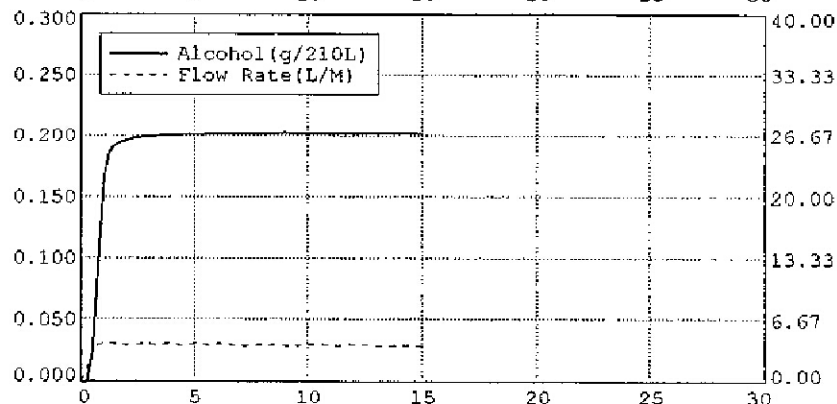
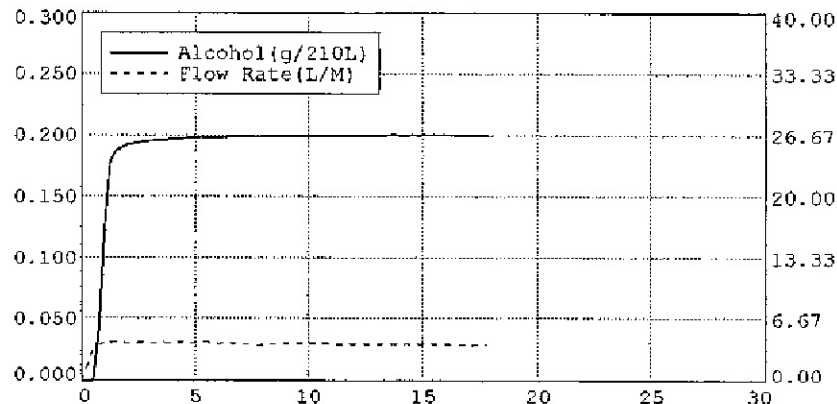
Date: 11/13/2012
Time: 14:04:15

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:05
INTERNAL STANDARD	VERIFIED	14:05
EXTERNAL STANDARD	0.201	14:05
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.203	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.202	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.202	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.202	14:11
BLANK TEST	0.000	14:12

Average = 0.2026
Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100420

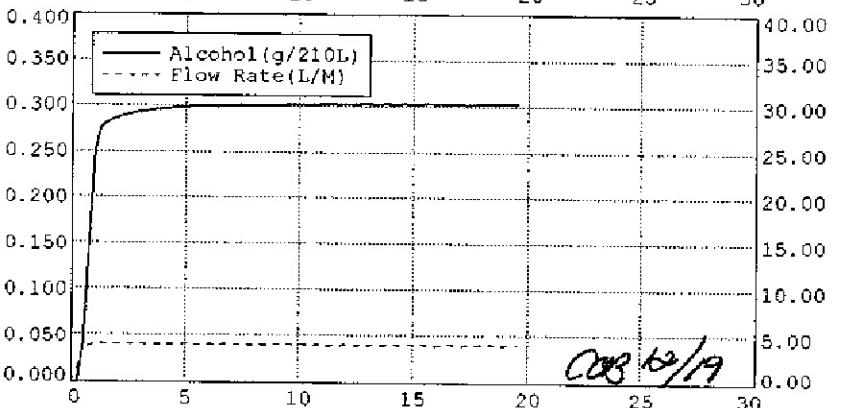
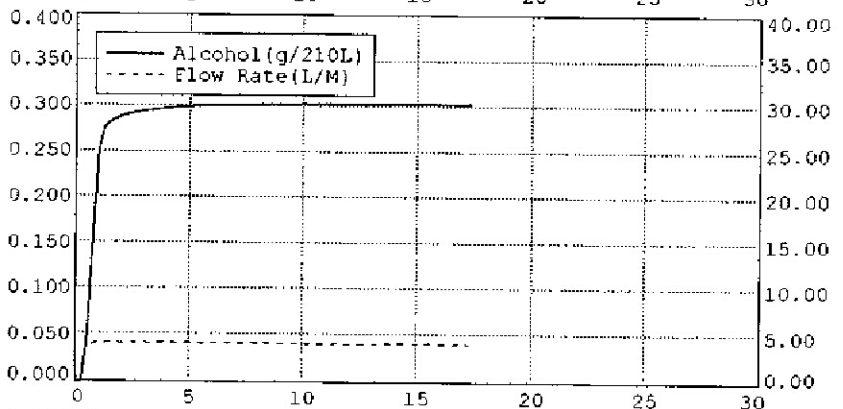
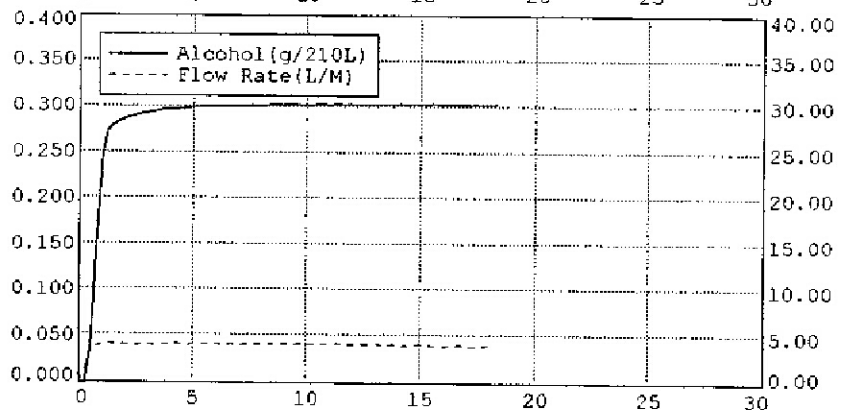
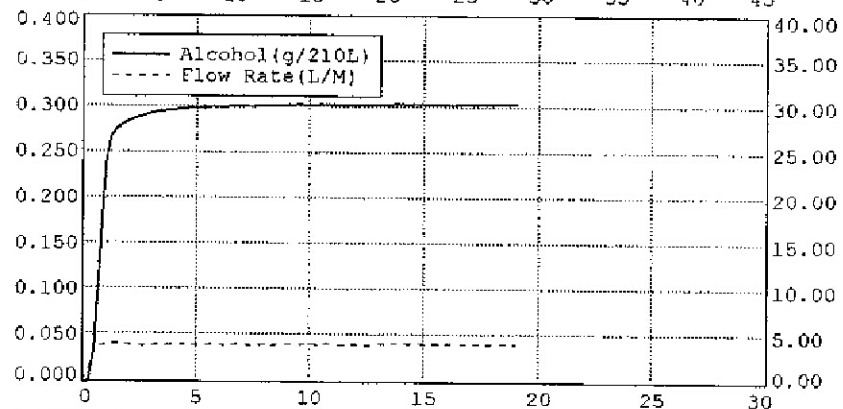
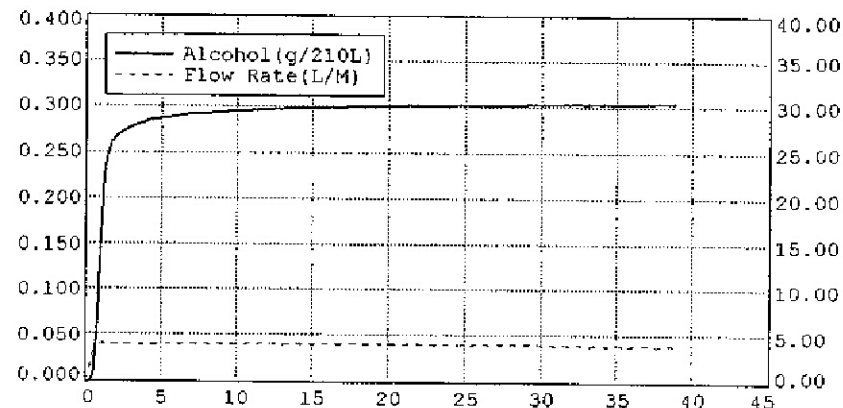
Date: 11/13/2012
Time: 14:13:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 12050
EXPIRATION: 03/21/2014

BLANK TEST	0.000	14:14
INTERNAL STANDARD	VERIFIED	14:14
EXTERNAL STANDARD	0.305	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.304	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.303	14:18
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.303	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.303	14:21
BLANK TEST	0.000	14:22

Average = 0.3042
Std Dev = 0.0006



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100420

Date: 11/13/2012
 Time: 14:26:49

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

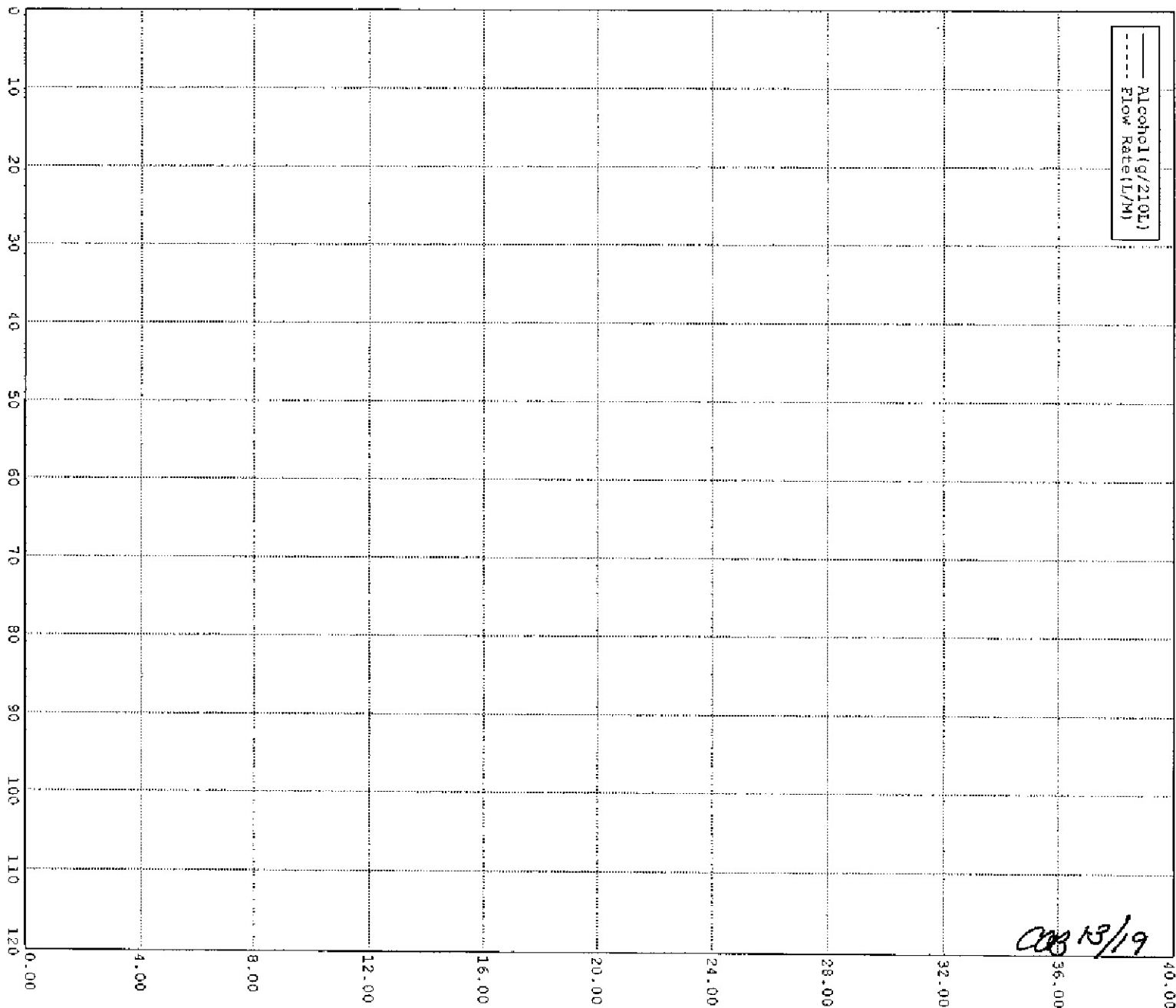
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.68: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:40
BLANK TEST	0.000	14:40
INTERNAL STANDARD	VERIFIED	14:40
EXTERNAL STANDARD	0.078	14:40
BLANK TEST	0.000	14:42
SUBJECT SAMPLE	INCOMPLETE	14:44

Colleen

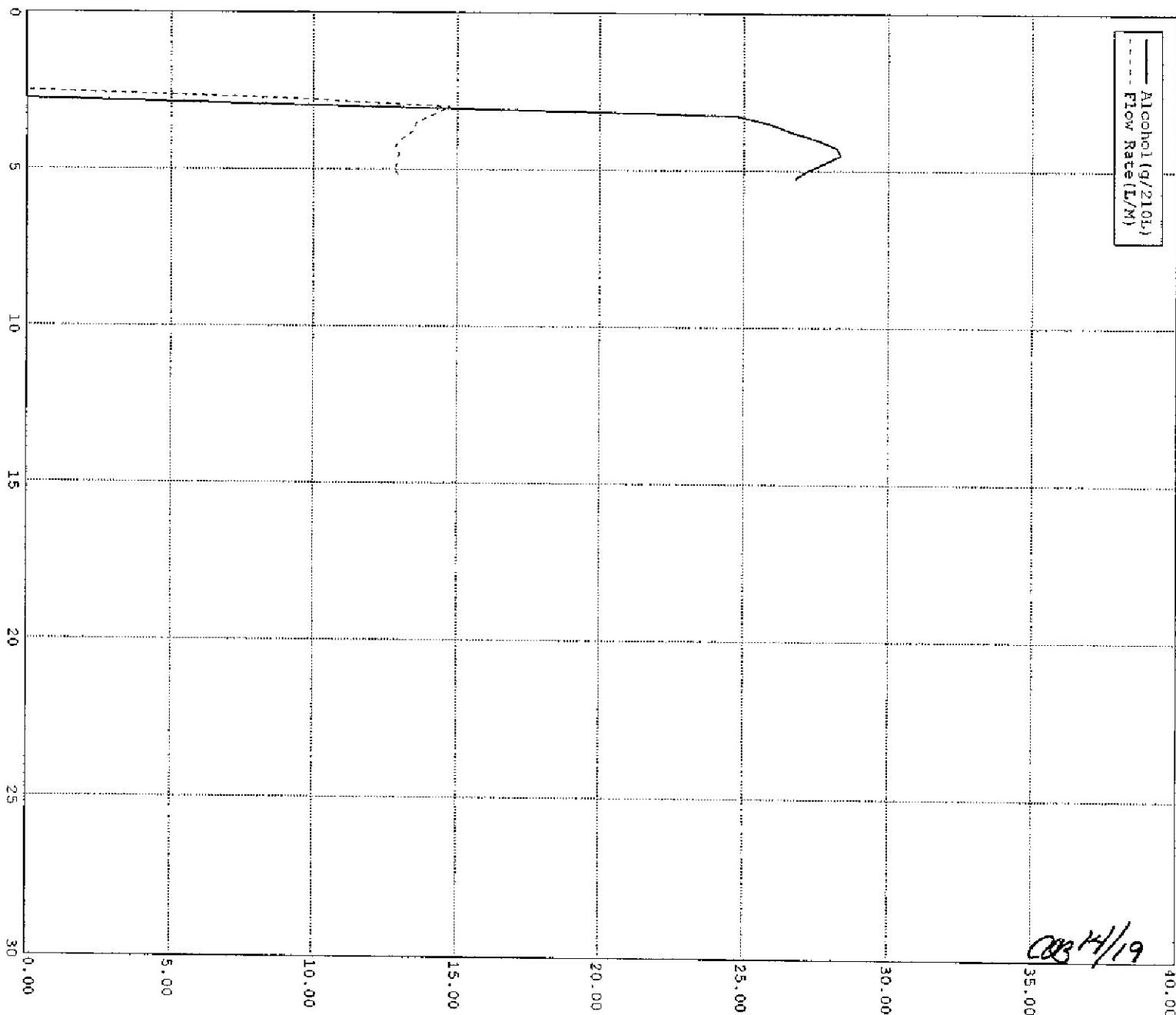


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100420Date: 11/13/2012
Time: 14:45:21SUBJECT NAME:
TEST TEST
LICENSE #: INVALIDOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.68: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:46
BLANK TEST	0.000	14:46
INTERNAL STANDARD	VERIFIED	14:46
EXTERNAL STANDARD	0.079	14:46
BLANK TEST	0.000	14:48
SUBJECT SAMPLE	INVALID	14:48

Colleen



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100420

Date: 11/13/2012
Time: 14:53:59

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

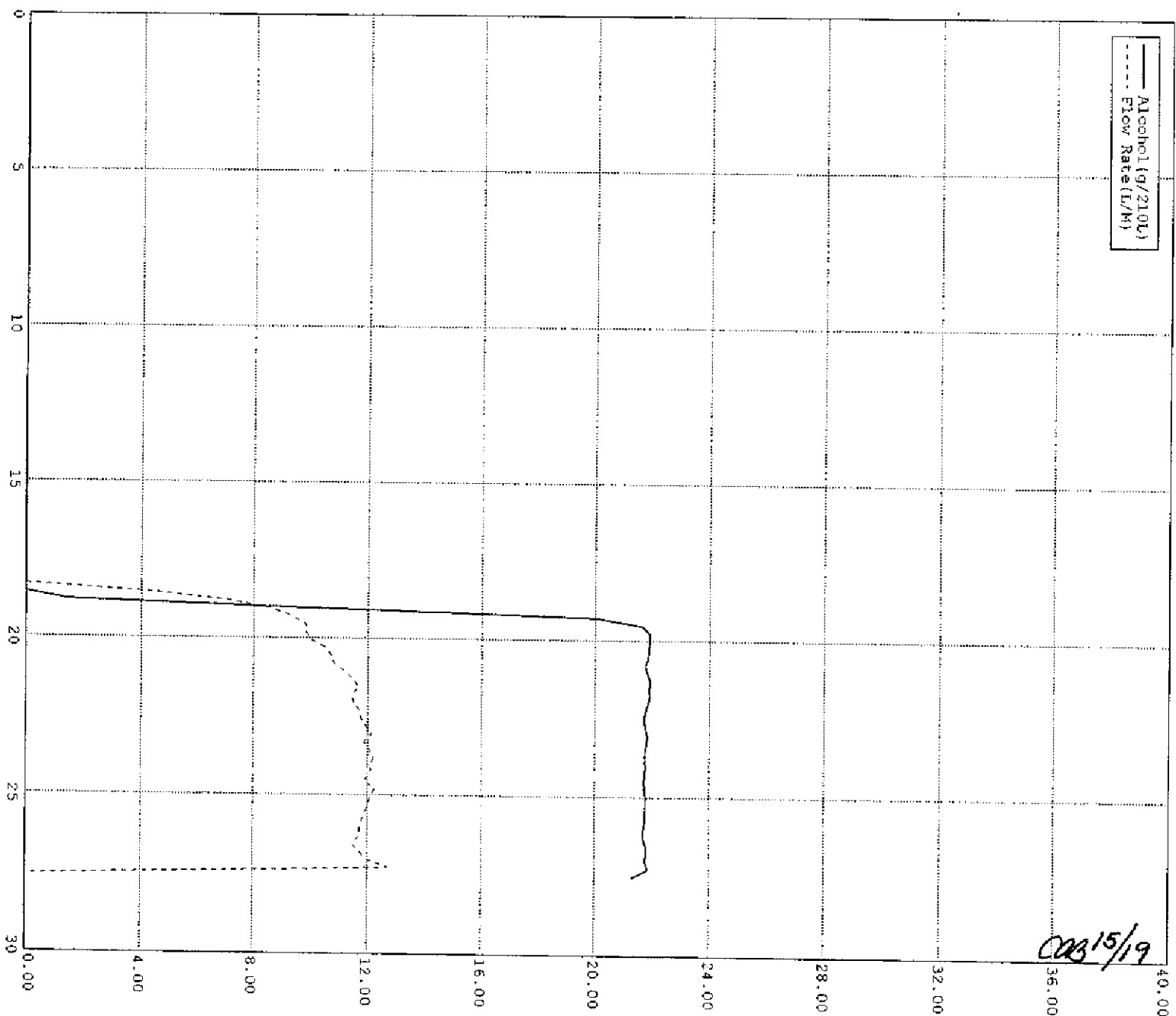
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.68: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:55
BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:55
Xg = 0.081 (2.30%)		
EXTERNAL STANDARD	0.079	14:55
X[1] = 0.0796 (0.0000) (0.0026)		
BLANK TEST	0.000	14:56
SUBJECT SAMPLE	INTERFERENCE	14:57
X[1] = 0.1072 (-0.0181) (0.0011)		

CB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 11/13/2012
 Time: 15:13:49

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-1PA

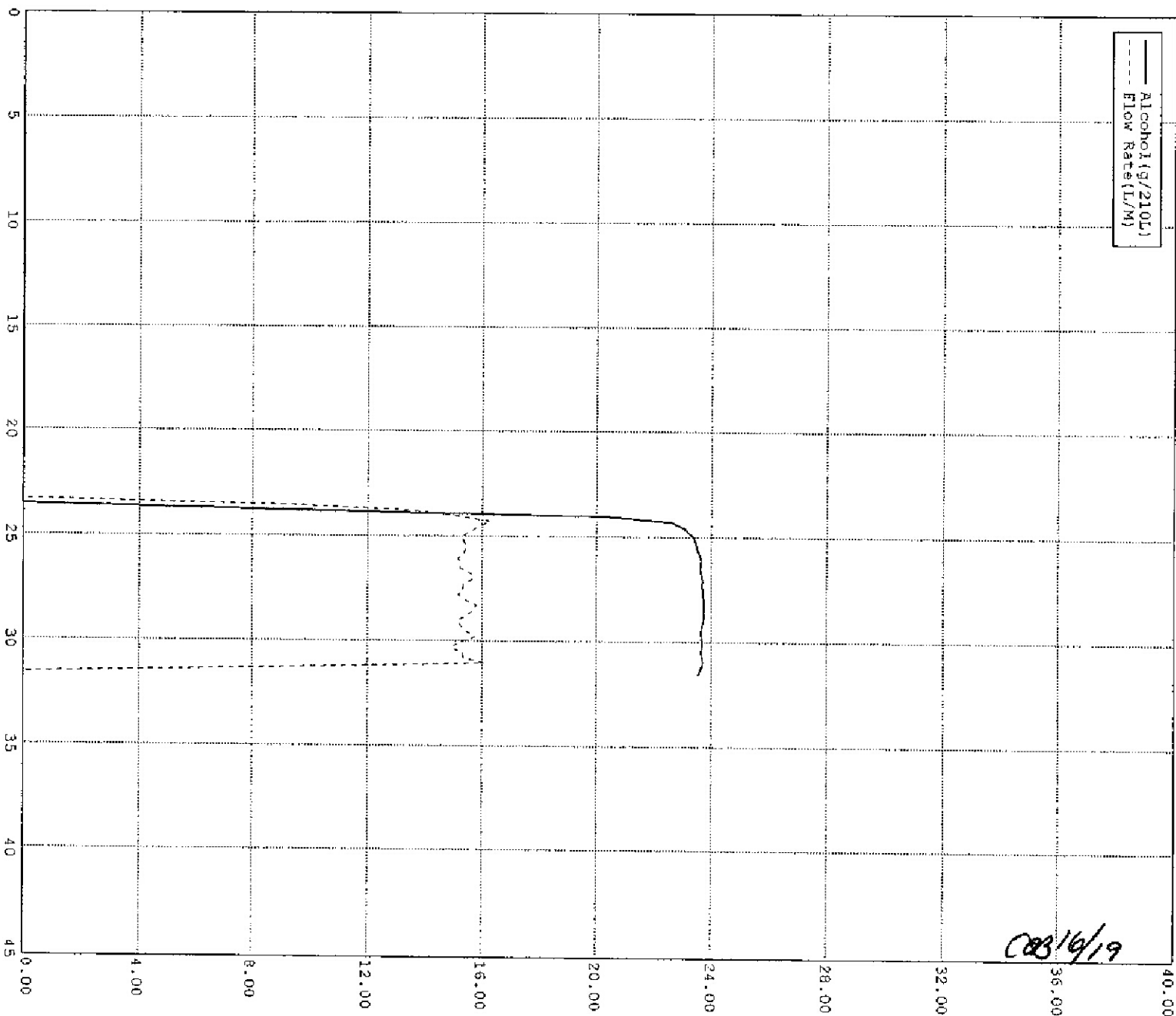
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.68: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:14
BLANK TEST	0.000	15:15
INTERNAL STANDARD	VERIFIED	15:15
X9 = 0.080 (0.66%)		
EXTERNAL STANDARD	0.081	15:15
X11 = 0.0812 (0.0013) (0.0024)		
BLANK TEST	0.000	15:16
SUBJECT SAMPLE	INTERFERENCE	15:16
X11 = 0.1179 (-0.0186) (0.0022)		

Colleen



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 11/13/2012
 Time: 15:27:41

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEGATIVE

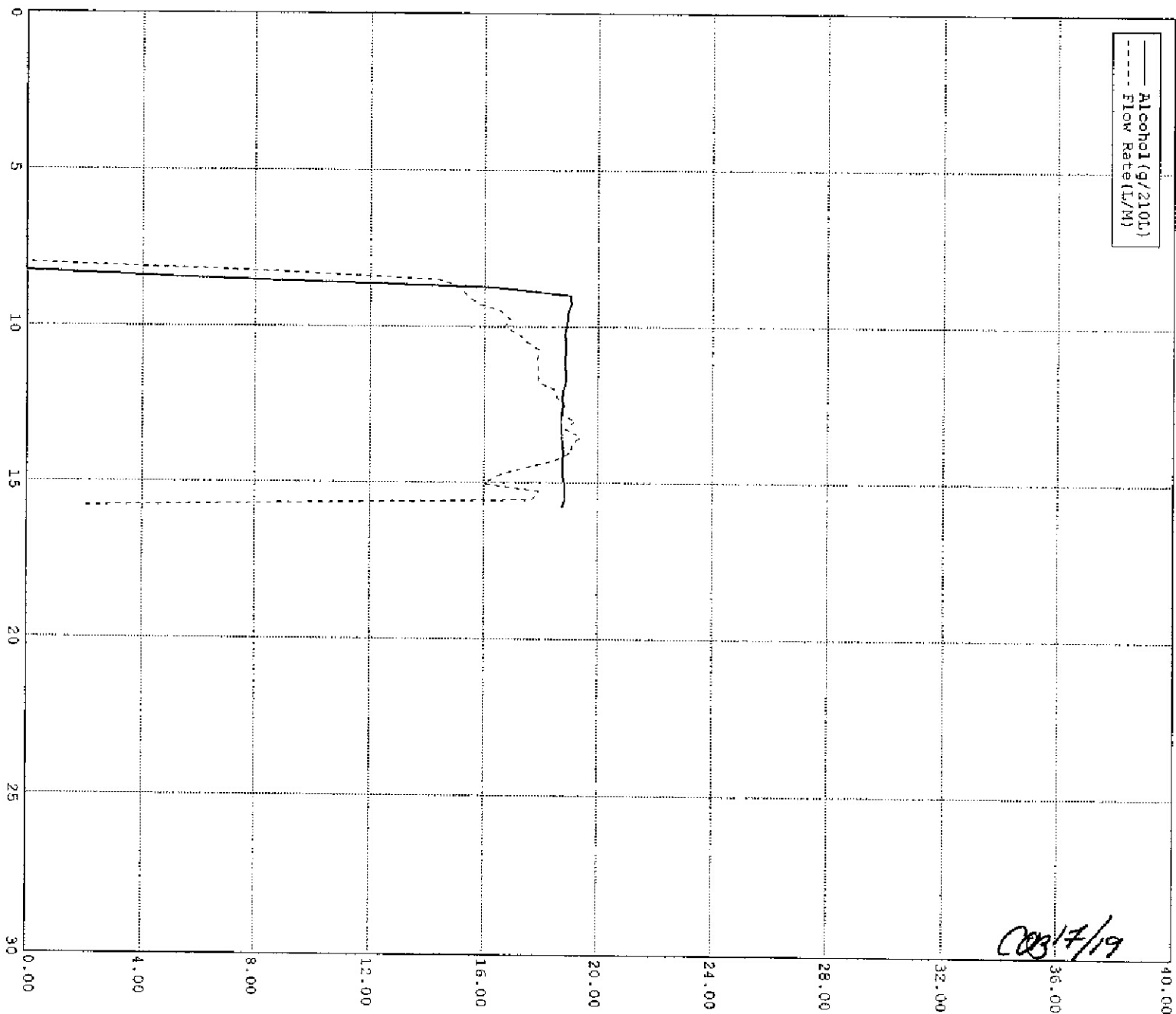
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.67: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:28
BLANK TEST	0.000	15:28
INTERNAL STANDARD	VERIFIED	15:28
Xg = 0.080 (1.31%)		
EXTERNAL STANDARD	0.079	15:29
X[1] = 0.0799 (-0.0001)	(0.0030)	
BLANK TEST	0.000	15:30
SUBJECT SAMPLE (Vol=2.16L)	0.094	15:30
X[1] = 0.0944 (-0.0002)	(0.0011)	
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.079	15:31
X[1] = 0.0794 (-0.0016)	(0.0020)	
BLANK TEST	0.000	15:32

COB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100420

Date: 11/13/2012
 Time: 15:35:22

SUBJECT NAME:
 TEST TEST
 LICENSE #: RFI

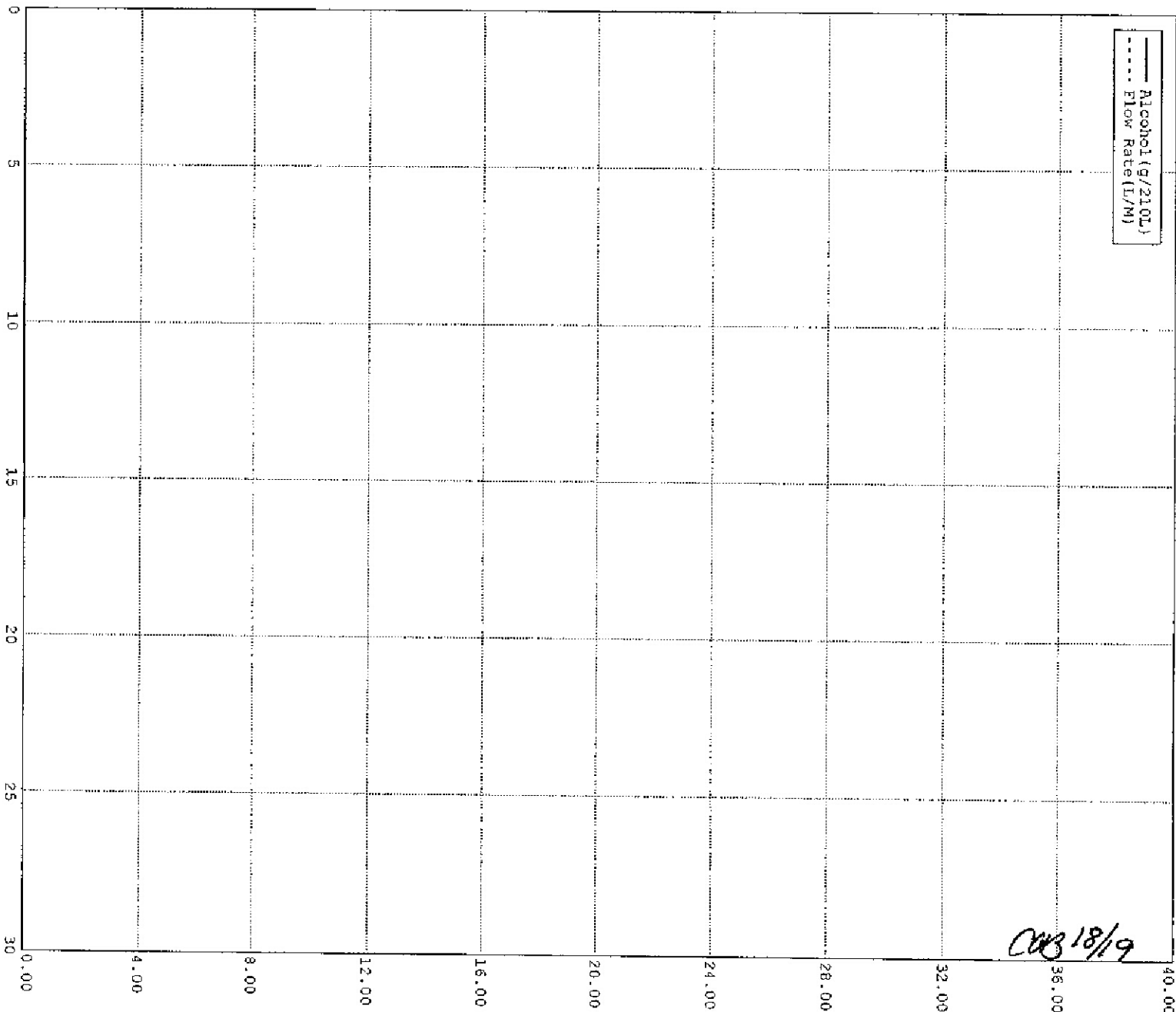
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.66: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
 BLANK TEST PASSED 15:36
 INTERVAL STANDARD 0.000 15:36
 EXTERNAL STANDARD VERIFIED 15:36
 BLANK TEST 0.081 15:36
 0.000 15:38

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100420

Date: 11/15/2012
 Time: 07:47:36

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

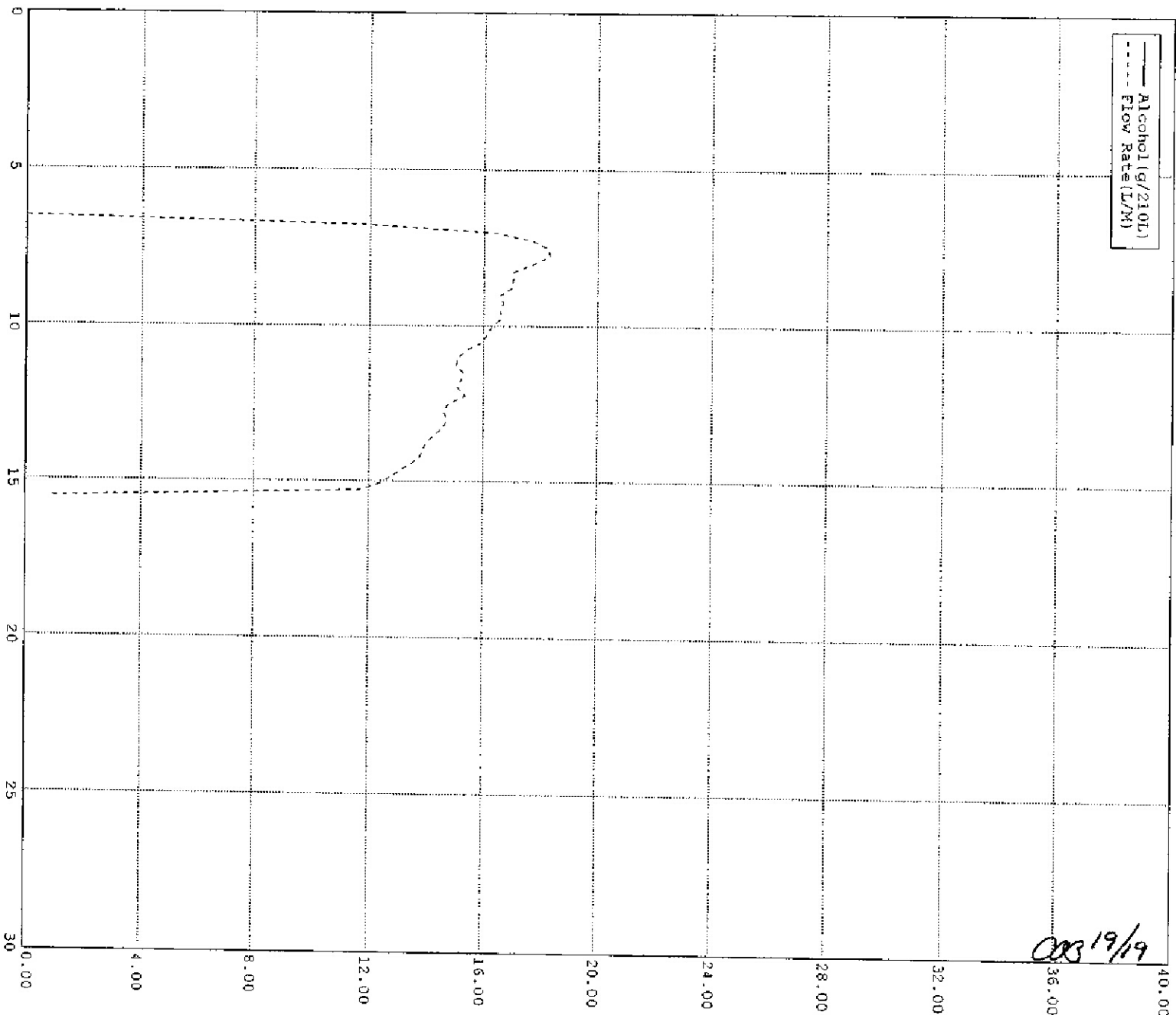
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.22: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	07:48
BLANK TEST	0.000	07:48
INTERNAL STANDARD	VERIFIED	07:49
EXTERNAL STANDARD	0.078	07:49
BLANK TEST	0.000	07:50
SUBJECT SAMPLE	0.000	07:50
BLANK TEST	0.000	07:51
EXTERNAL STANDARD	0.078	07:51
BLANK TEST	0.000	07:52

Colleen



Final page for report

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2/18/2014