

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100380 Analyst Colleen Start Date 07/25/2012

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 I/mo Lot 07611020A5 Exp 03/01/2013

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

iii. 0.080g/210L Mnf I/mo Lot 02012080A1 Exp 03/01/2014

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

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

1. Simulator S/N SD1198 Date Calibrated 01/10/2012

vi. 0.300g/210L Mnf Both Lot 11110 Exp 07/13/2013

1. Simulator S/N 50085298 Date Calibrated 09/20/2011

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Both Lot 11250 Level 0.100 Exp 12/6/2013

1. Simulator S/N SD1199 Date Calibrated 01/11/2012

ii. Isopropanol - Mnf Both Lot 11100 Level 0.100 Exp 07/06/2013

1. Simulator S/N DR6267 Date Calibrated 01/10/2012

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

1. Simulator S/N SD1202 Date Calibrated 8/17/2011

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 7/25/12

08/19

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 07:02:17

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
Breath Tube = 45.5°C PASSED

PUMP INFO

Flow Rate = 5.422 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

COB 2/19

Technician Screen

DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 7:06 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 45.5°C

Current Barometer 30.2 in
Volume (Ltr) 1.44

Settings

Lamp: 1.61 V
Bias: 80 V
Cooler: 1.59 V
Chopper: 546 Hz

Voltages (V)

Flow: 1.04 V
Detector: 0.047 V

003/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 03/04/2011
Time: 10:42:19

Ca = 0.1000
CAL = 0.981773 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0046 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0849 0.0500 <= Xq < 0.2000
a21 = 1.212608 1.050 <= a21 < 1.300
a31 = 0.452285 0.300 <= a31 < 0.800

0034/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 07:07:27

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

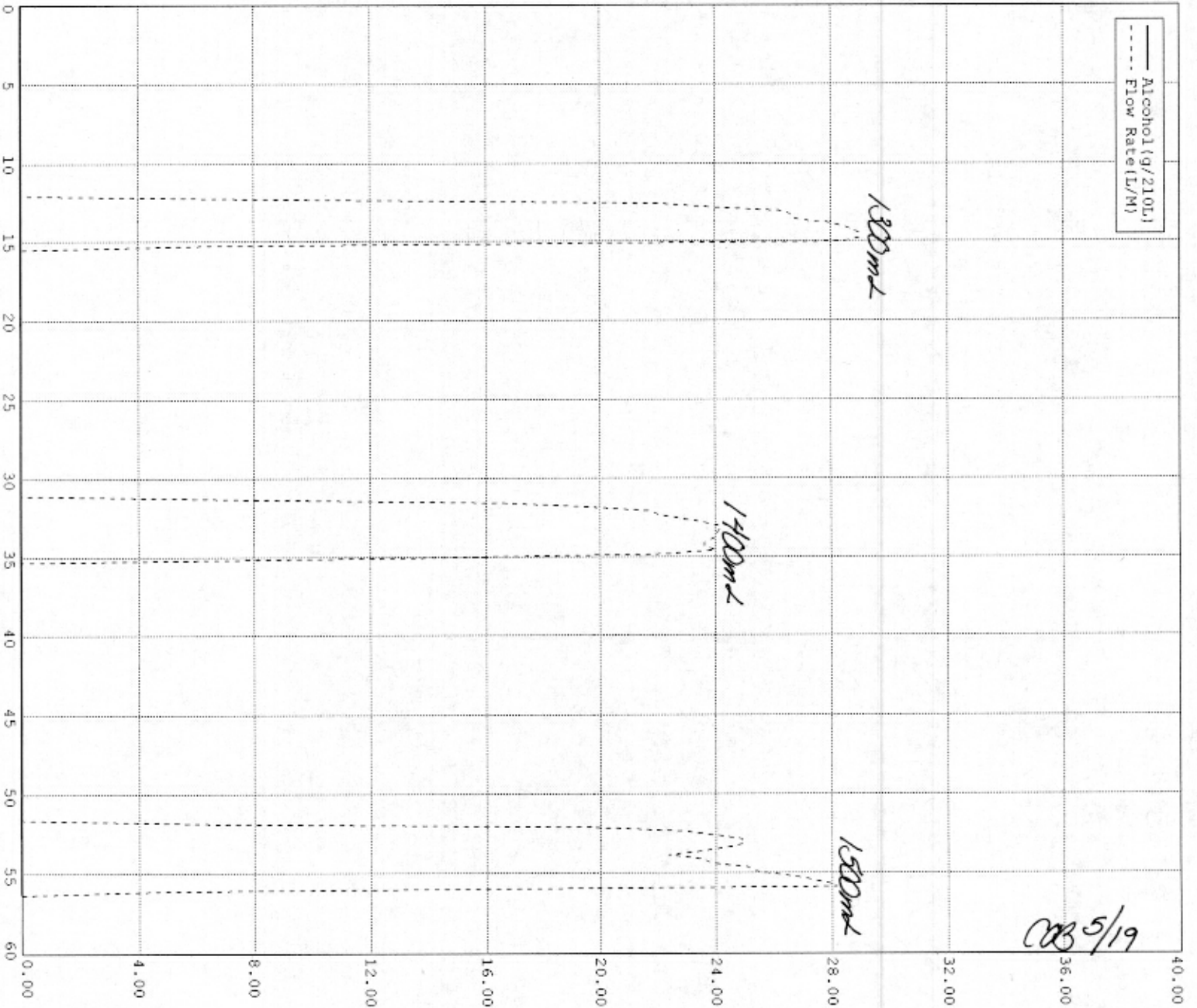
OPERATOR NAME:
COLLEEN S OBRZYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.16: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	07:08
BLANK TEST	0.000	07:08
INTERNAL STANDARD	VERIFIED	07:08
EXTERNAL STANDARD	0.081	07:08
BLANK TEST	0.000	07:09
SUBJECT SAMPLE	0.000	07:10
BLANK TEST	0.000	07:11
EXTERNAL STANDARD	0.080	07:11
BLANK TEST	0.000	07:12

CRB



LINEARITY CHECK

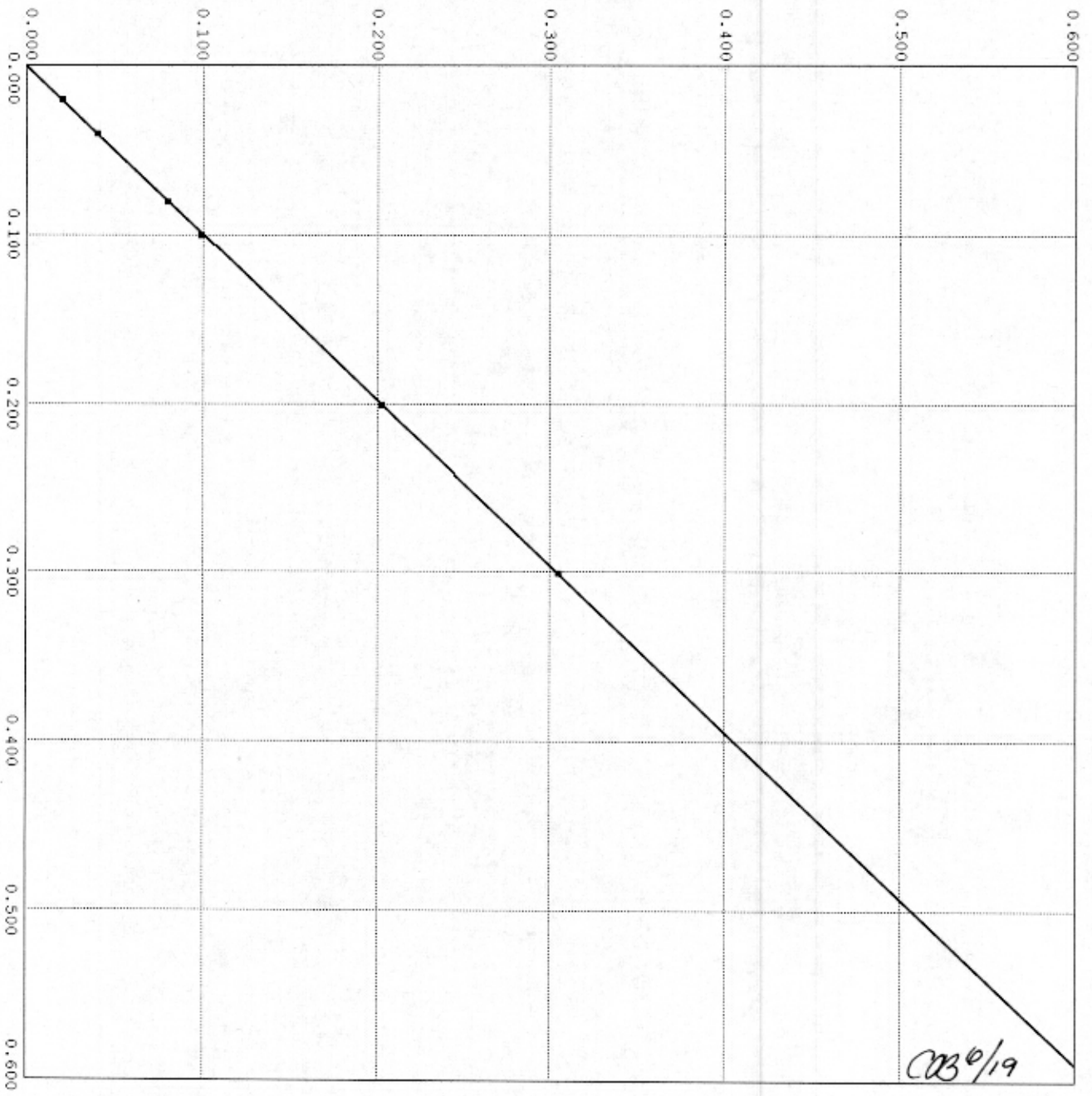
Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 07:28:28

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0208	0.0004
0.040	0.0409	0.0003
0.080	0.0809	0.0002
0.100	0.1000	0.0002
0.200	0.2031	0.0004
0.300	0.3056	0.0003

SLOPE = 1.018211
R² = 0.999945



RB

RB 6/19

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100380

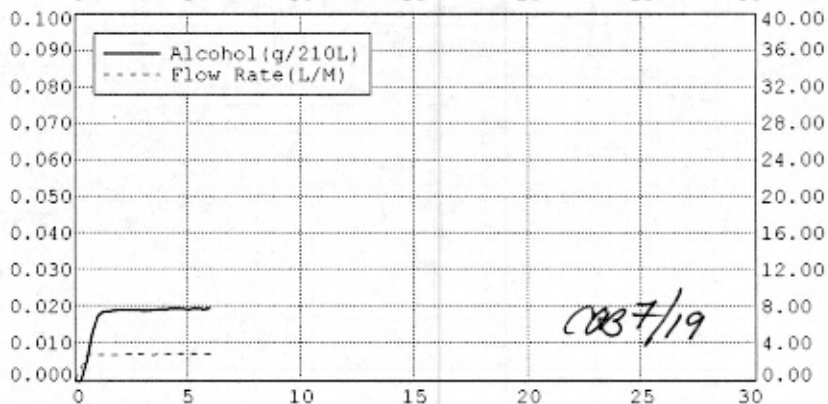
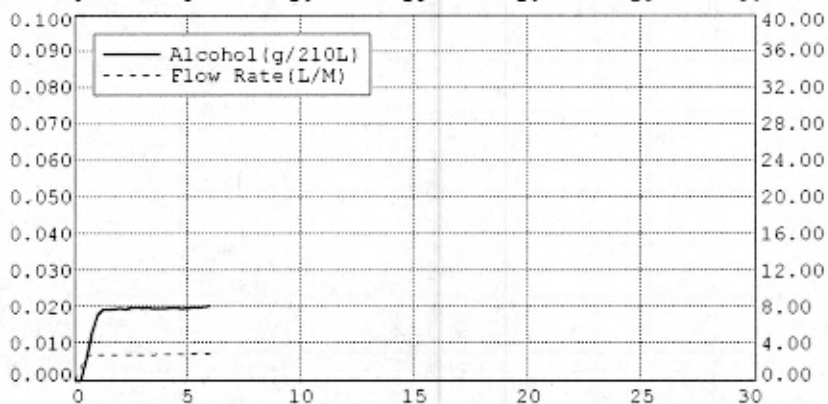
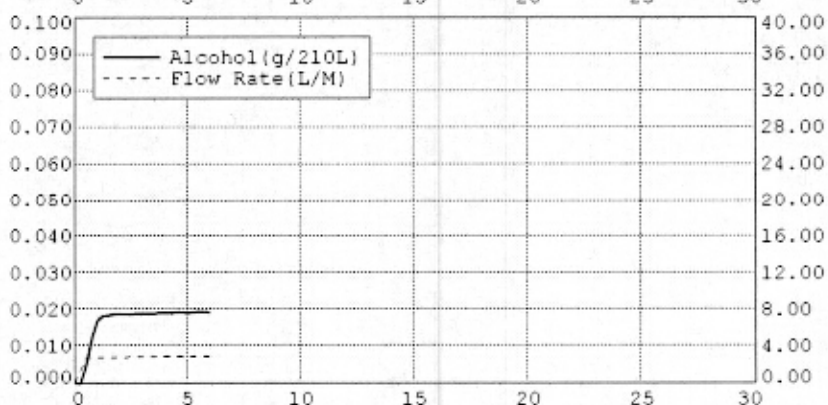
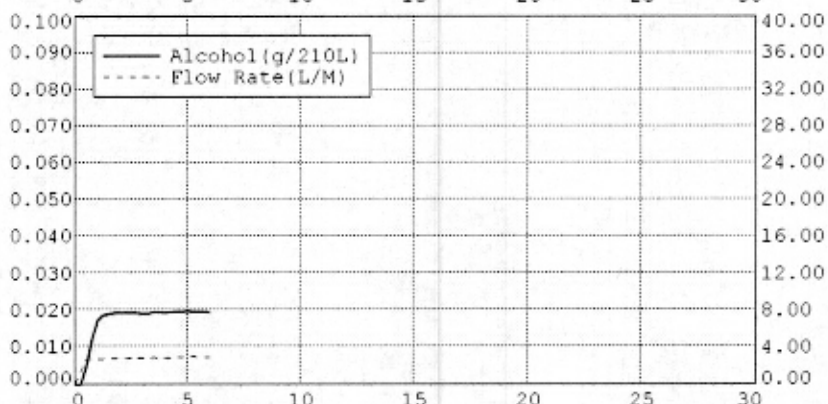
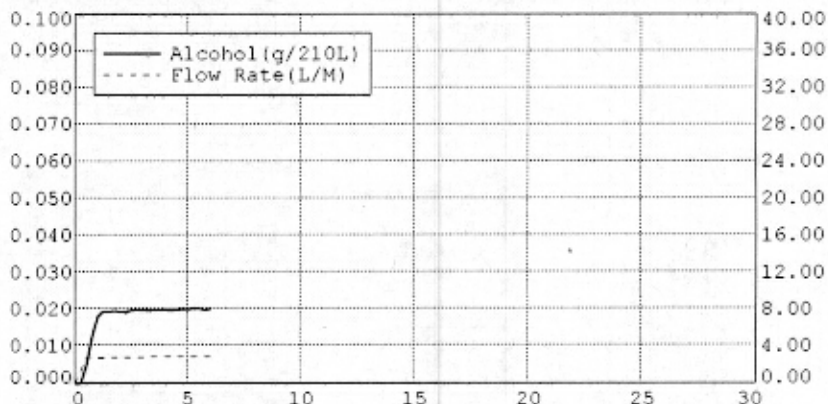
Date: 07/25/2012
Time: 07:28:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 30.15: 0.020
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	07:49
INTERNAL STANDARD	VERIFIED	07:49
EXTERNAL STANDARD	0.021	07:50
BLANK TEST	0.000	07:51
EXTERNAL STANDARD	0.020	07:51
BLANK TEST	0.000	07:52
EXTERNAL STANDARD	0.020	07:52
BLANK TEST	0.000	07:53
EXTERNAL STANDARD	0.021	07:53
BLANK TEST	0.000	07:54
EXTERNAL STANDARD	0.020	07:54
BLANK TEST	0.000	07:55

Average = 0.0208
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

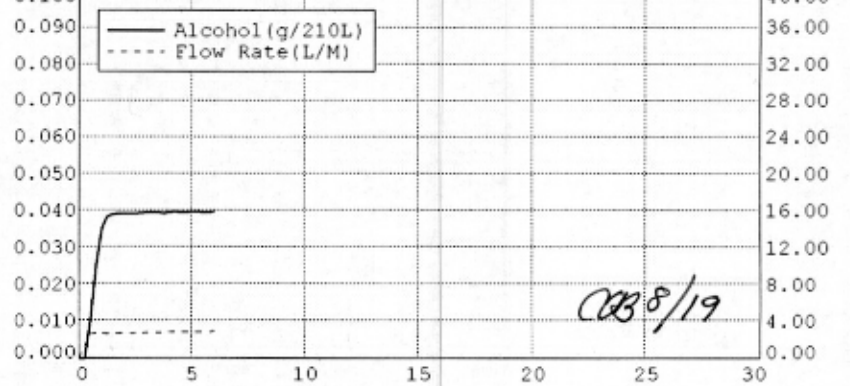
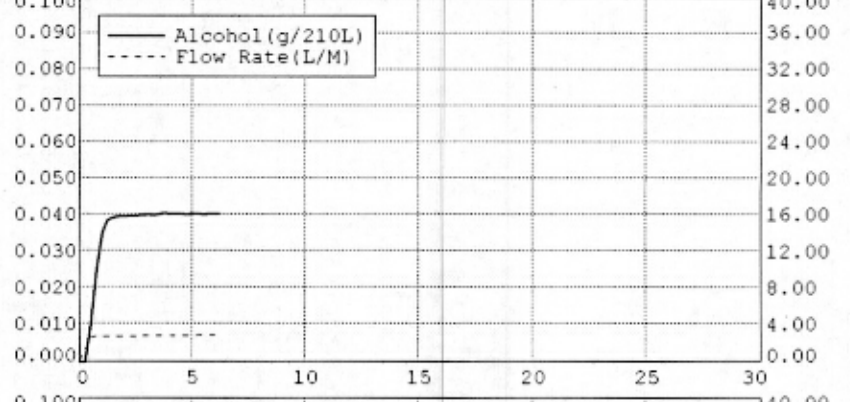
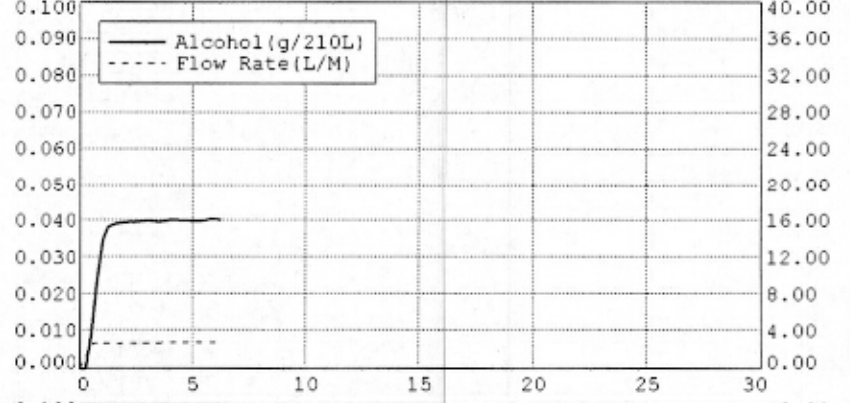
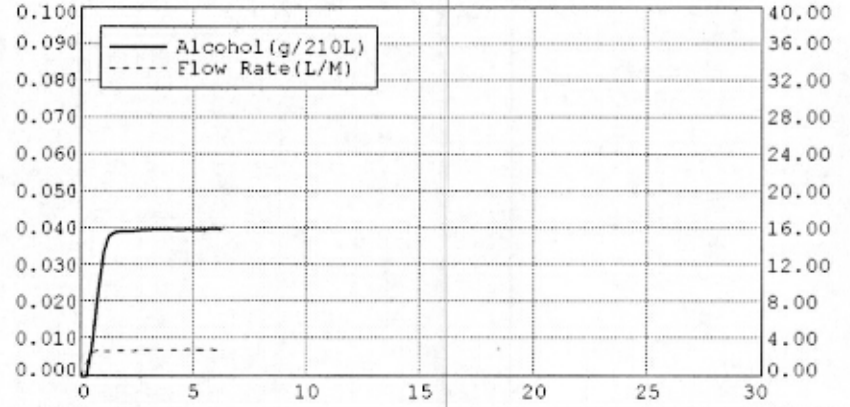
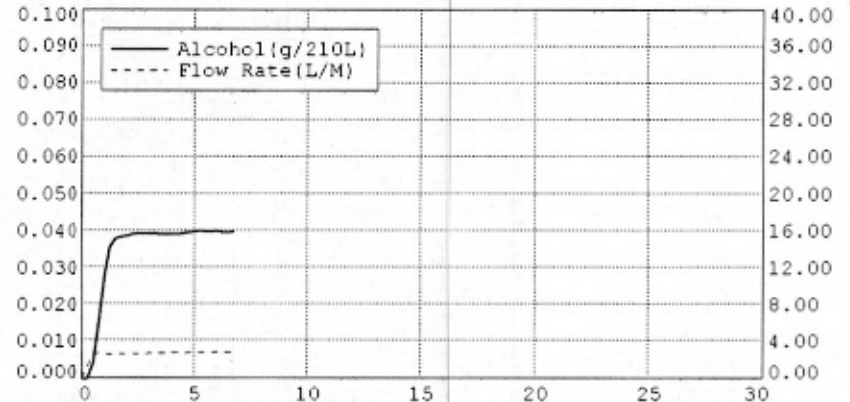
Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 08:00:46

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 30.15: 0.040
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:02
INTERNAL STANDARD	VERIFIED	08:02
EXTERNAL STANDARD	0.040	08:02
BLANK TEST	0.000	08:03
EXTERNAL STANDARD	0.040	08:03
BLANK TEST	0.000	08:04
EXTERNAL STANDARD	0.041	08:04
BLANK TEST	0.000	08:05
EXTERNAL STANDARD	0.041	08:06
BLANK TEST	0.000	08:06
EXTERNAL STANDARD	0.040	08:07
BLANK TEST	0.000	08:08

Average = 0.0409
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

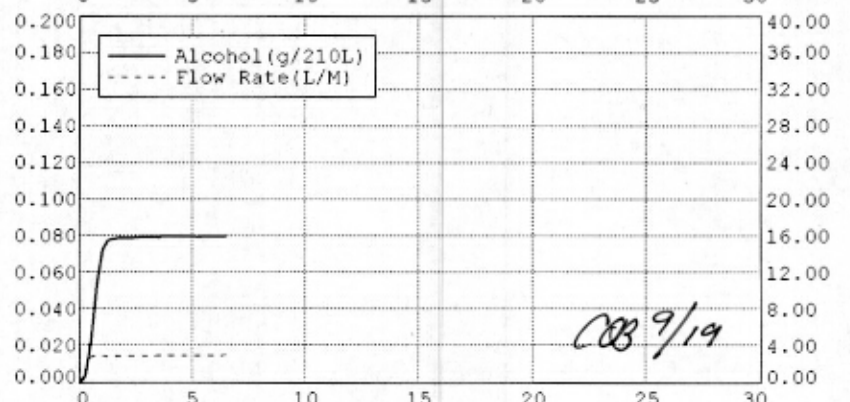
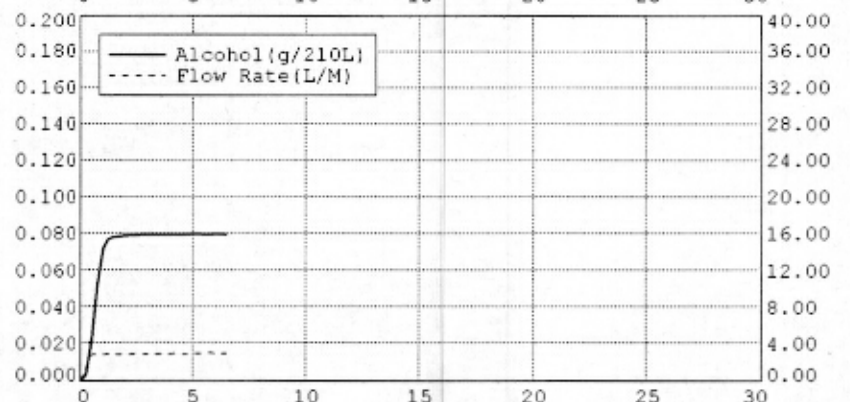
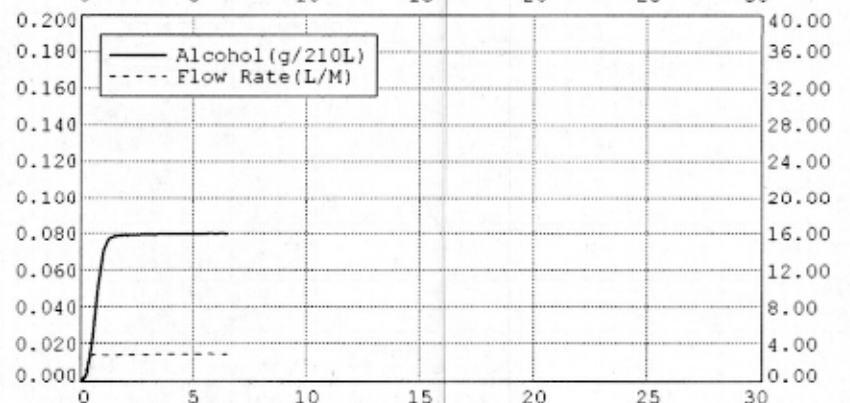
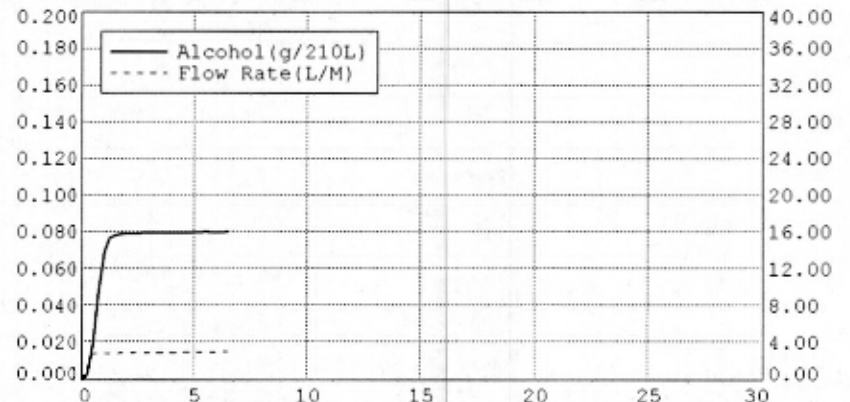
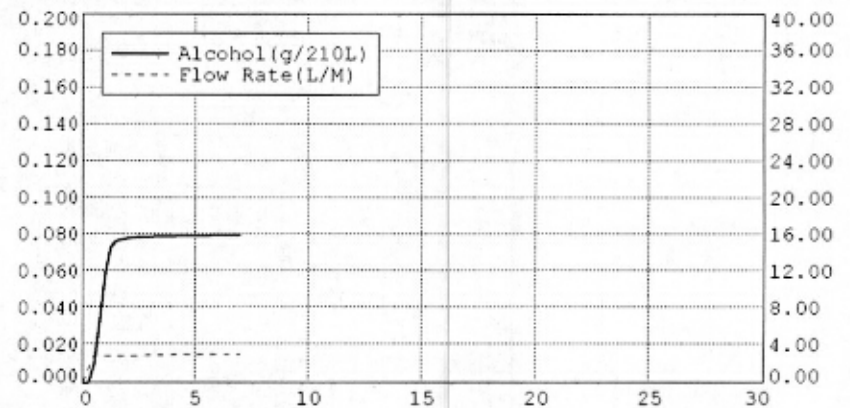
Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 08:13:53

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.15: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	08:15
INTERNAL STANDARD	VERIFIED	08:15
EXTERNAL STANDARD	0.080	08:15
BLANK TEST	0.000	08:16
EXTERNAL STANDARD	0.081	08:16
BLANK TEST	0.000	08:17
EXTERNAL STANDARD	0.081	08:17
BLANK TEST	0.000	08:18
EXTERNAL STANDARD	0.080	08:18
BLANK TEST	0.000	08:19
EXTERNAL STANDARD	0.080	08:20
BLANK TEST	0.000	08:20

Average = 0.0809
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

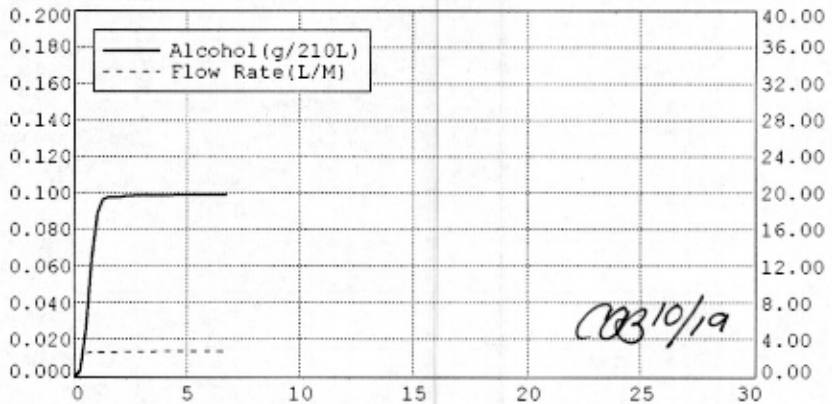
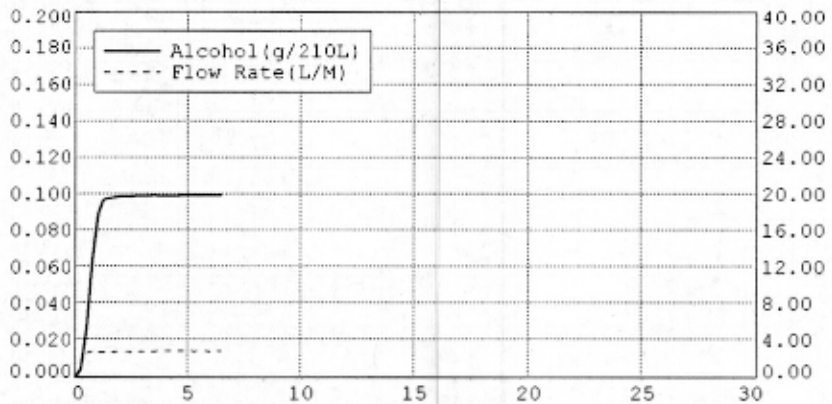
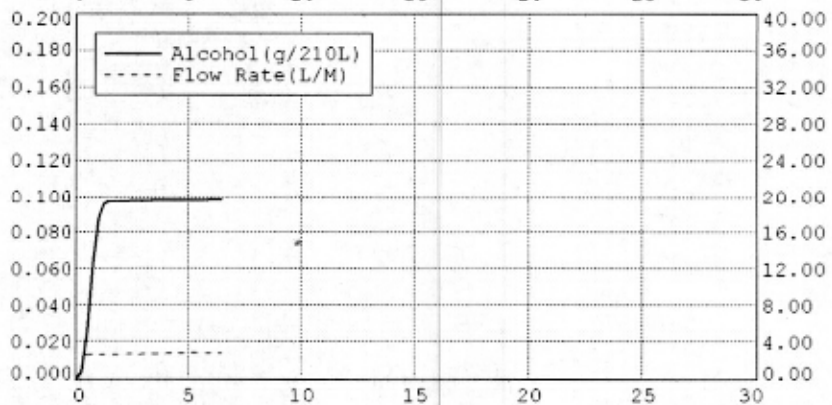
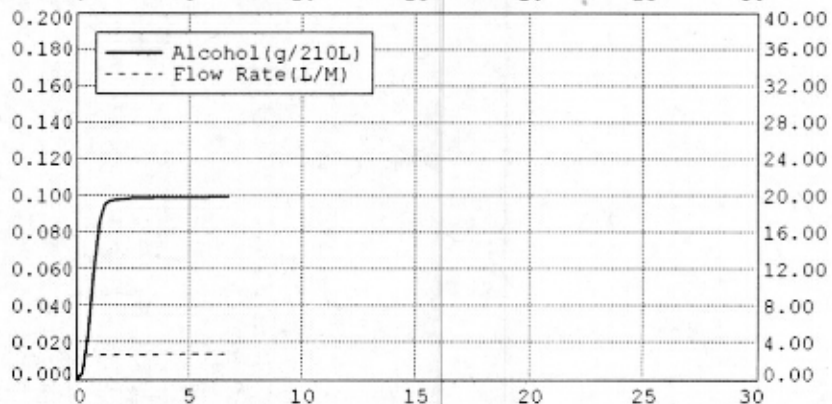
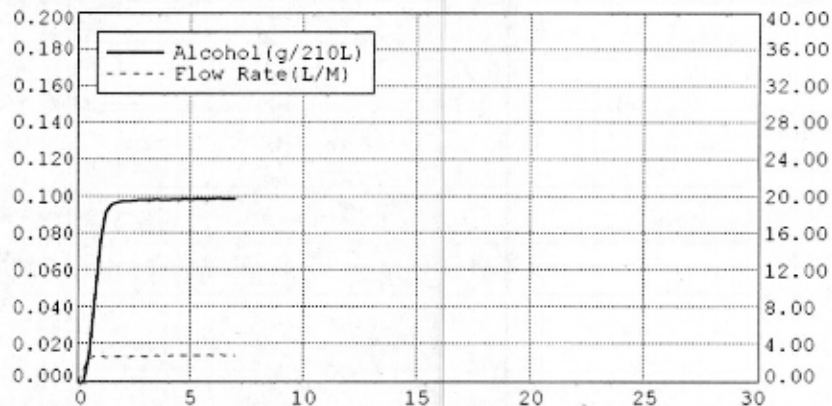
Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 08:22:22

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 30.14: 0.100
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:26
INTERNAL STANDARD	VERIFIED	08:26
EXTERNAL STANDARD	0.099	08:26
BLANK TEST	0.000	08:27
EXTERNAL STANDARD	0.100	08:27
BLANK TEST	0.000	08:28
EXTERNAL STANDARD	0.099	08:29
BLANK TEST	0.000	08:29
EXTERNAL STANDARD	0.100	08:30
BLANK TEST	0.000	08:31
EXTERNAL STANDARD	0.100	08:31
BLANK TEST	0.000	08:32

Average = 0.1000
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

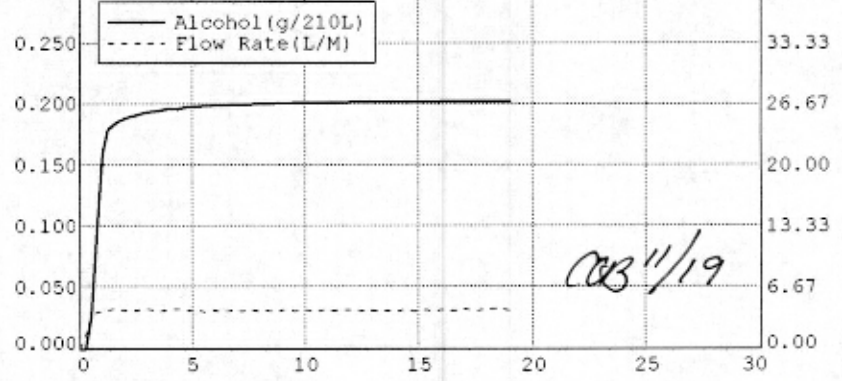
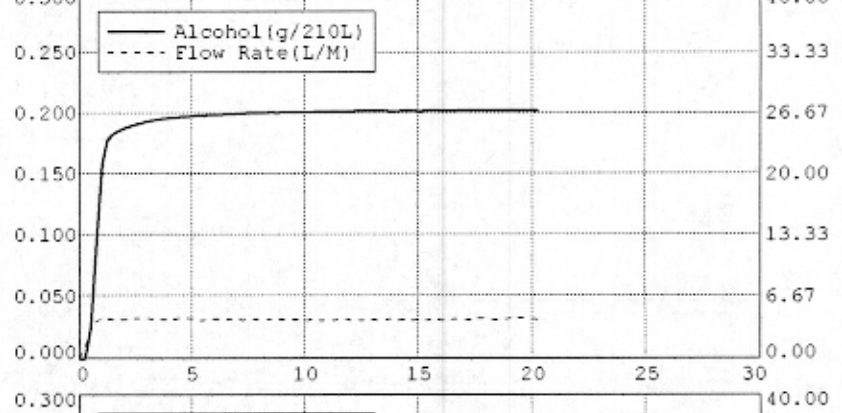
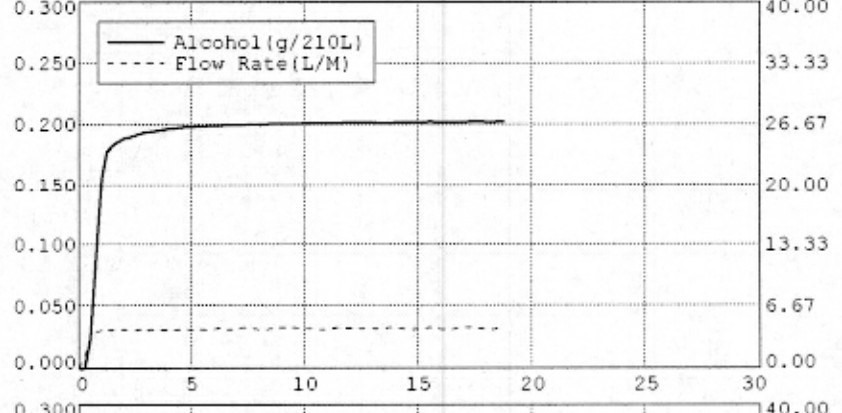
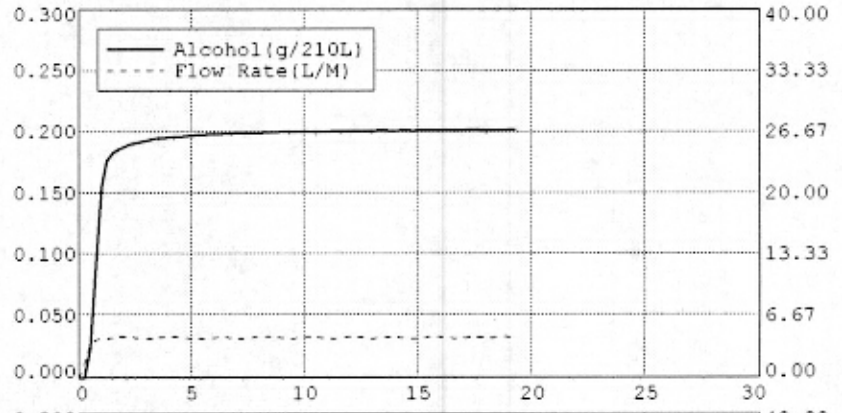
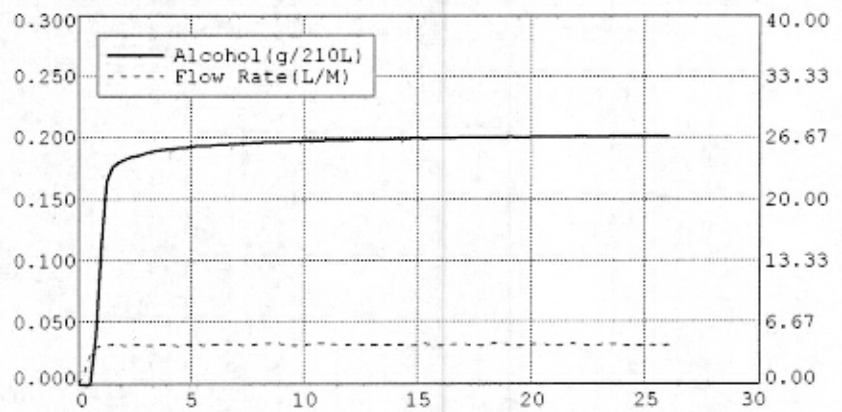
Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 08:33:30

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
LOT #: 11120
EXPIRATION: 07/19/2013

BLANK TEST	0.000	08:36
INTERNAL STANDARD	VERIFIED	08:36
EXTERNAL STANDARD	0.202	08:37
BLANK TEST	0.000	08:38
EXTERNAL STANDARD	0.202	08:38
BLANK TEST	0.000	08:39
EXTERNAL STANDARD	0.203	08:39
BLANK TEST	0.000	08:40
EXTERNAL STANDARD	0.203	08:41
BLANK TEST	0.000	08:42
EXTERNAL STANDARD	0.203	08:42
BLANK TEST	0.000	08:43

Average = 0.2031
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

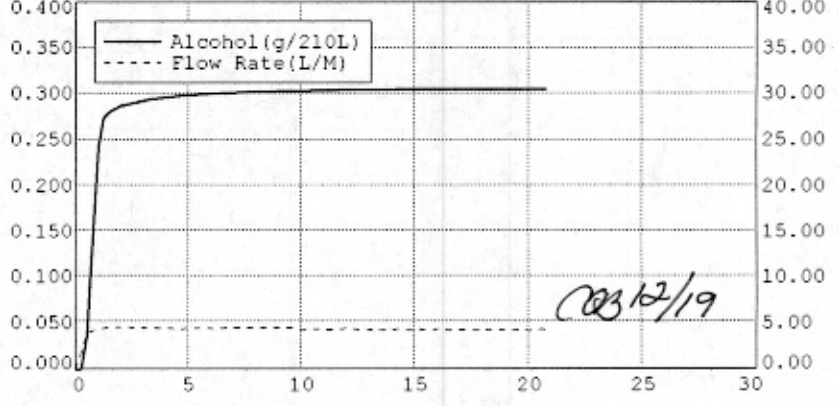
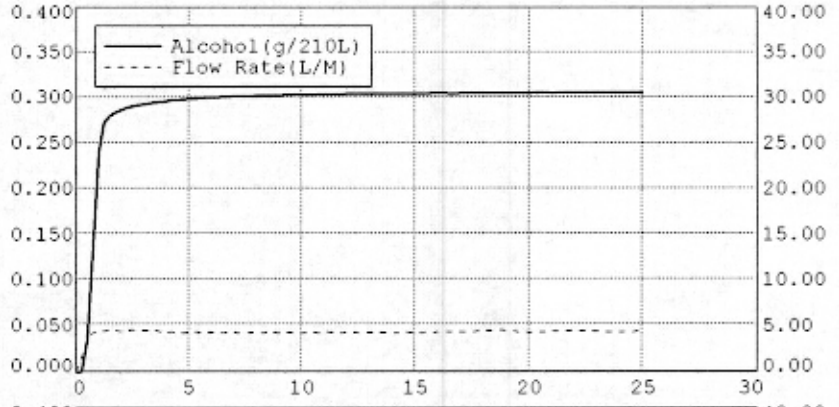
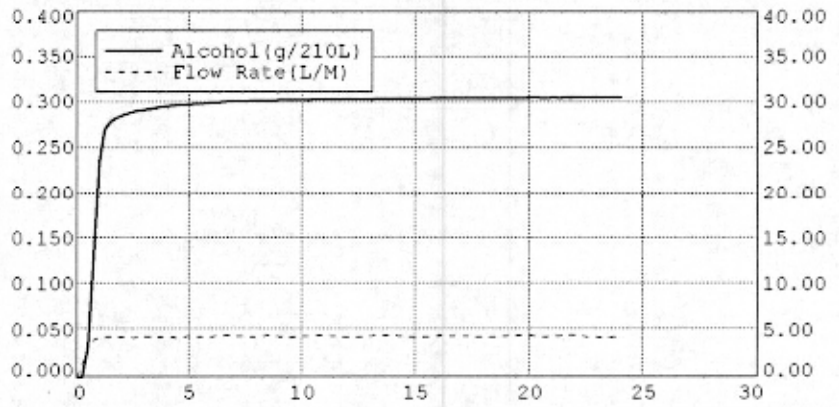
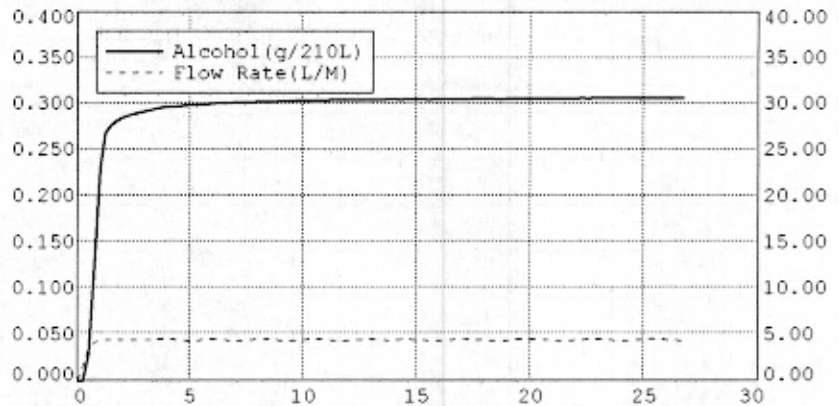
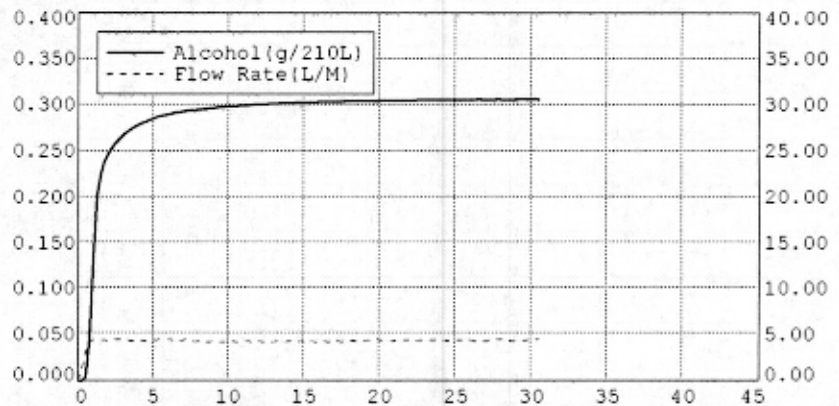
Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 08:46:45

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
LOT #: 11110
EXPIRATION: 07/13/2013

BLANK TEST	0.000	08:47
INTERNAL STANDARD	VERIFIED	08:47
EXTERNAL STANDARD	0.306	08:48
BLANK TEST	0.000	08:49
EXTERNAL STANDARD	0.305	08:50
BLANK TEST	0.000	08:51
EXTERNAL STANDARD	0.305	08:51
BLANK TEST	0.000	08:52
EXTERNAL STANDARD	0.305	08:53
BLANK TEST	0.000	08:54
EXTERNAL STANDARD	0.305	08:54
BLANK TEST	0.000	08:55

Average = 0.3056
Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 09:01:16

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

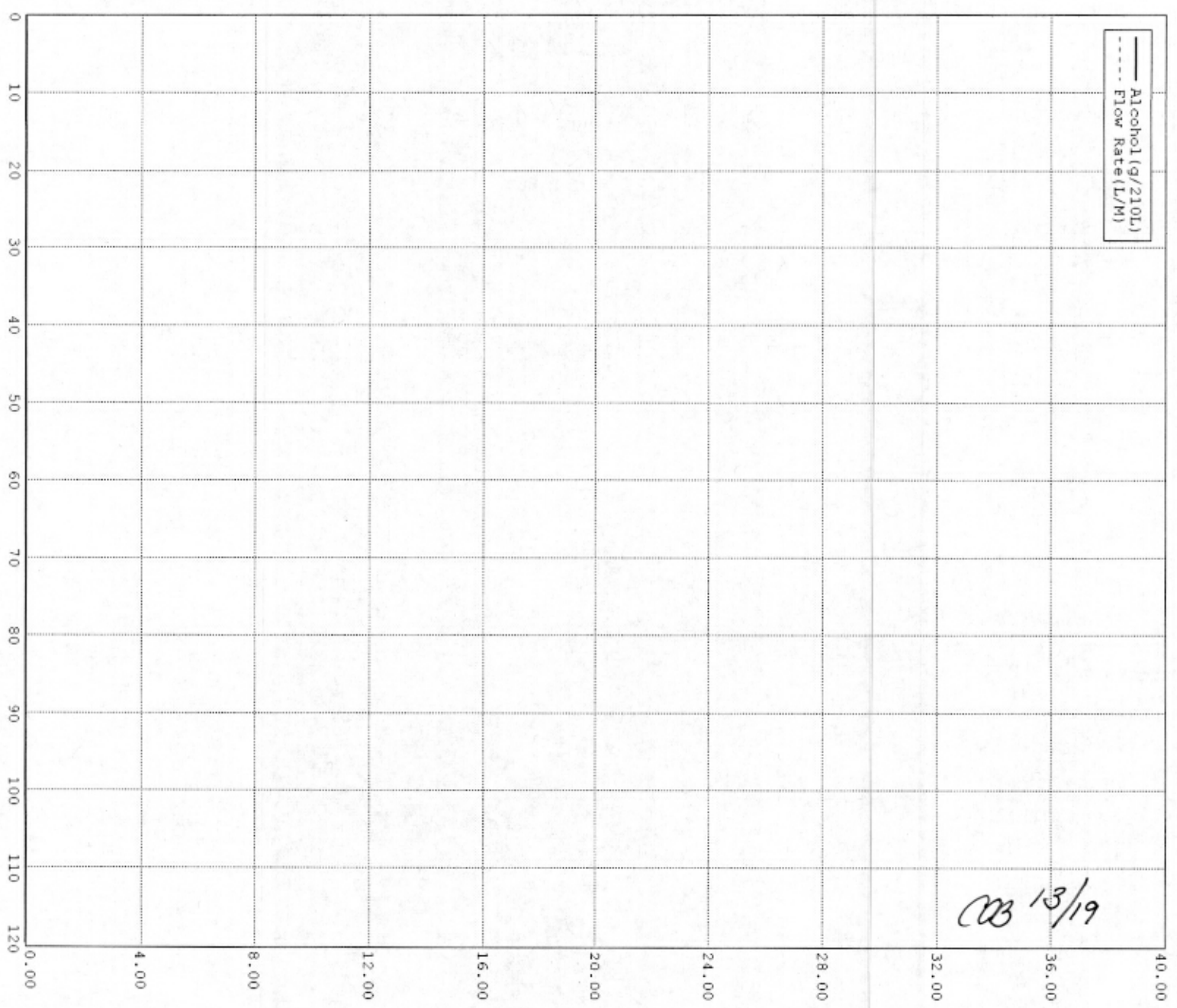
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.16: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:02
BLANK TEST	0.000	09:02
INTERNAL STANDARD	VERIFIED	09:02
EXTERNAL STANDARD	0.080	09:02
BLANK TEST	0.000	09:03
SUBJECT SAMPLE	INCOMPLETE	09:05

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 09:09:49

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

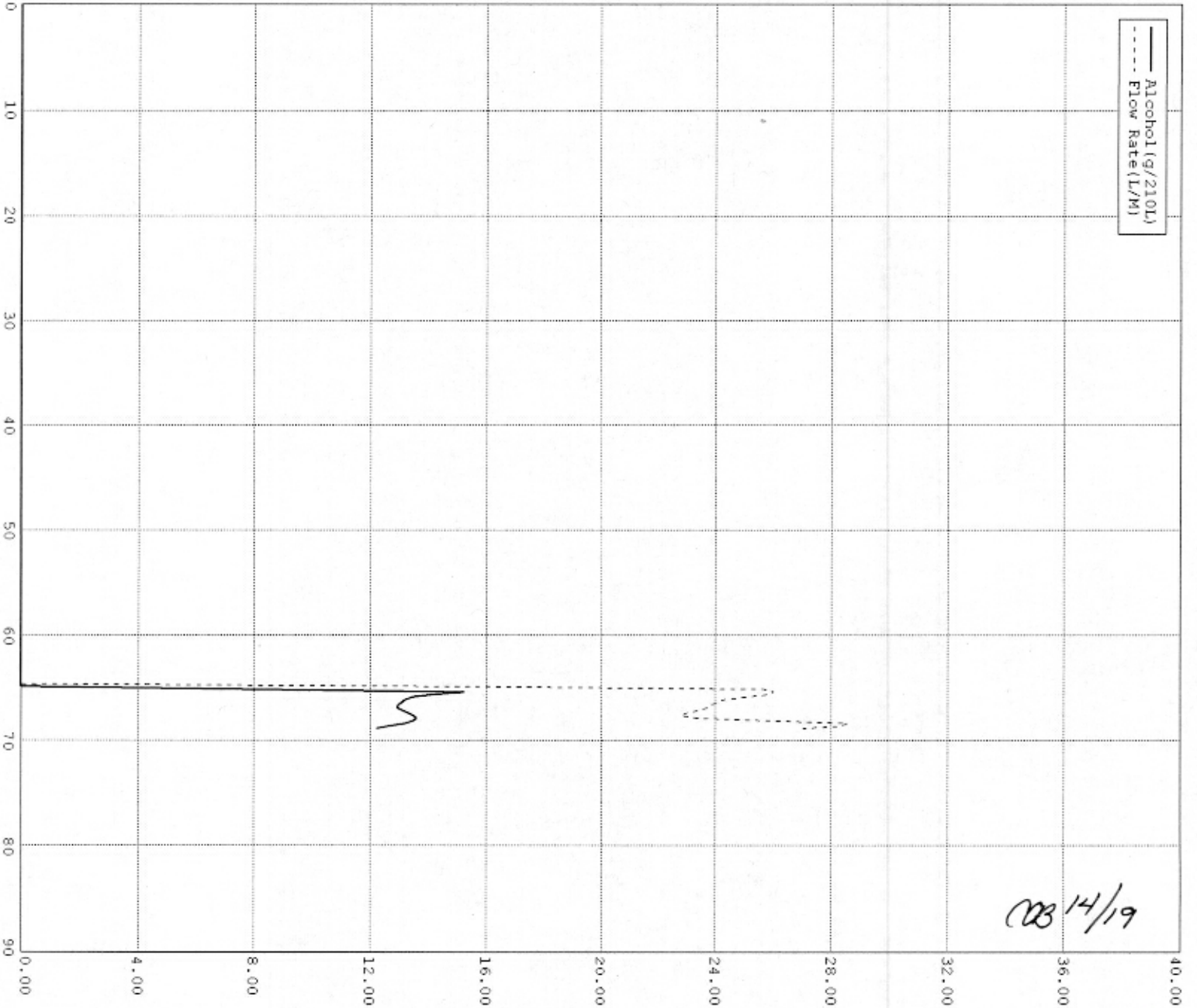
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.16: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:11
BLANK TEST	0.000	09:11
INTERNAL STANDARD	VERIFIED	09:11
EXTERNAL STANDARD	0.080	09:11
BLANK TEST	0.000	09:12
SUBJECT SAMPLE	INVALID	09:13

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 09:47:32

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

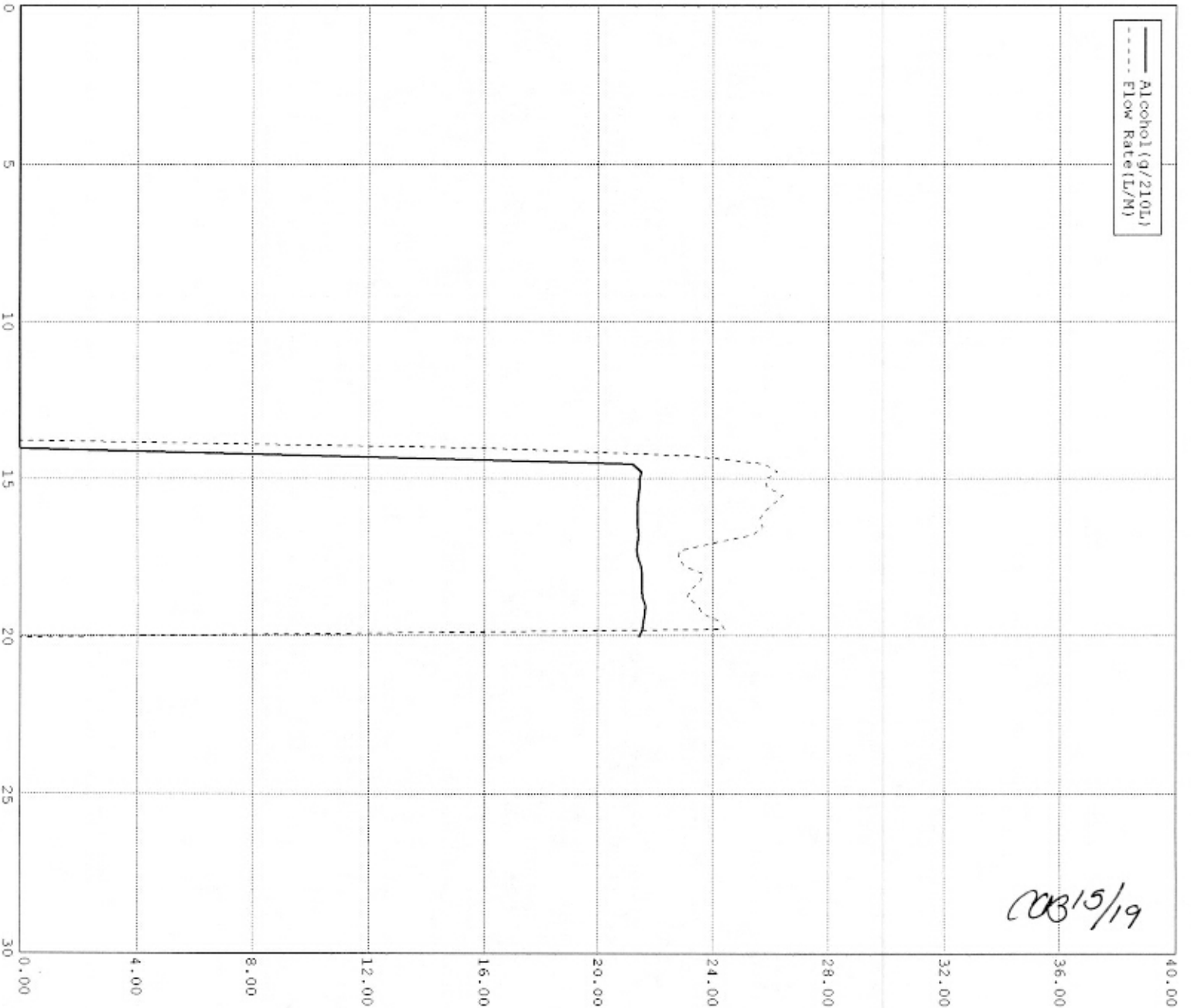
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.14: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:49
BLANK TEST	0.000	09:49
INTERNAL STANDARD	VERIFIED	09:49
Xq = 0.084 (0.82%)		
EXTERNAL STANDARD	0.081	09:49
X[1] = 0.0814 (0.0009)	(0.0008)	
BLANK TEST	0.000	09:50
SUBJECT SAMPLE	INTERFERENCE	09:50
X[1] = 0.1075 (-0.0136)	(-0.0015)	

CAB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 09:42:27

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

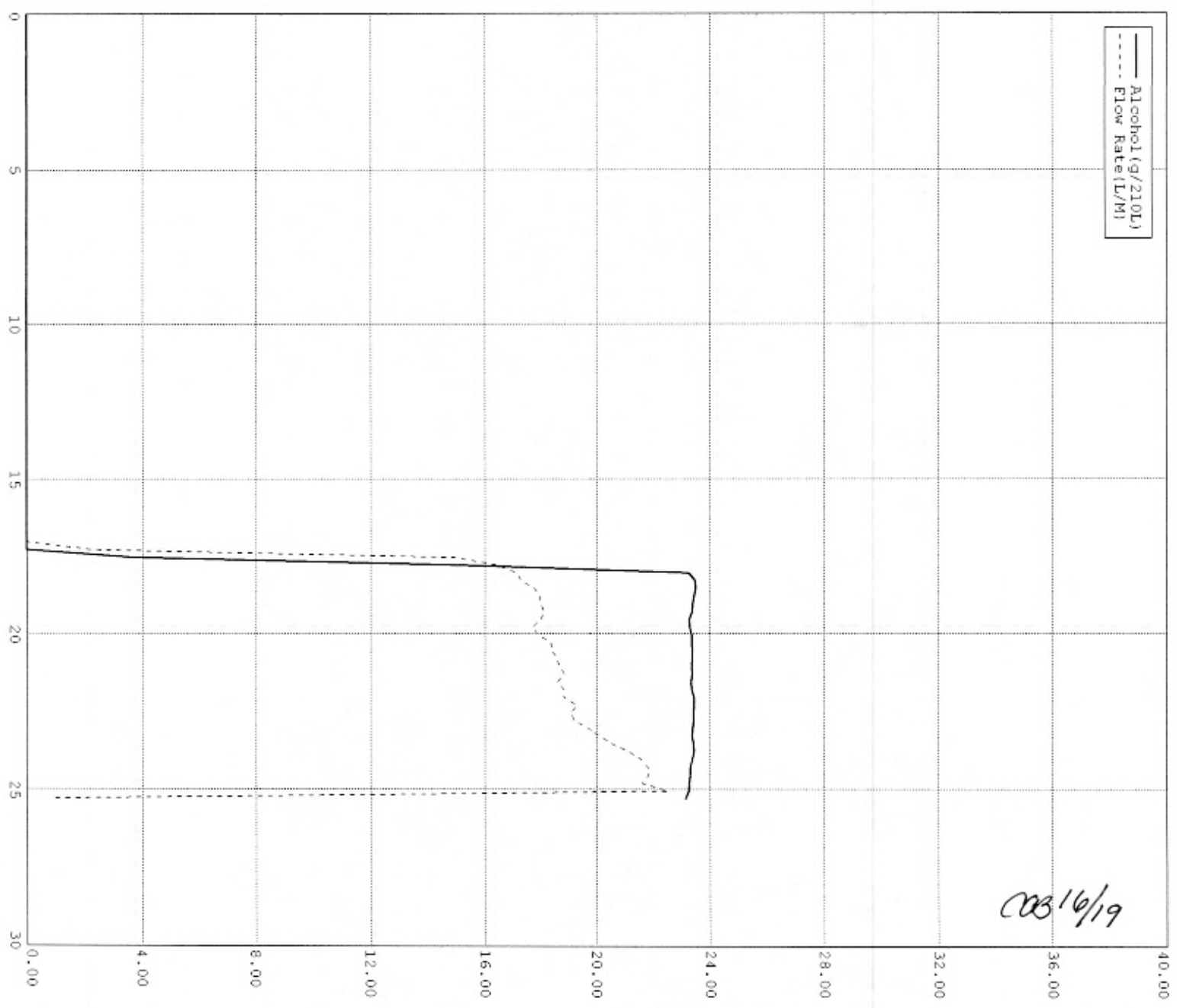
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.14: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 09:43
BLANK TEST 0.000 09:43
INTERNAL STANDARD VERIFIED 09:43
Xg = 0.083 (1.74%)
EXTERNAL STANDARD 0.080 09:43
X[1] = 0.0805 (0.0011) (0.0015)
BLANK TEST 0.000 09:44
SUBJECT SAMPLE INTERFERENCE 09:45
X[1] = 0.1154 (-0.0296) (-0.0008)

CR



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 09:55:50

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEG

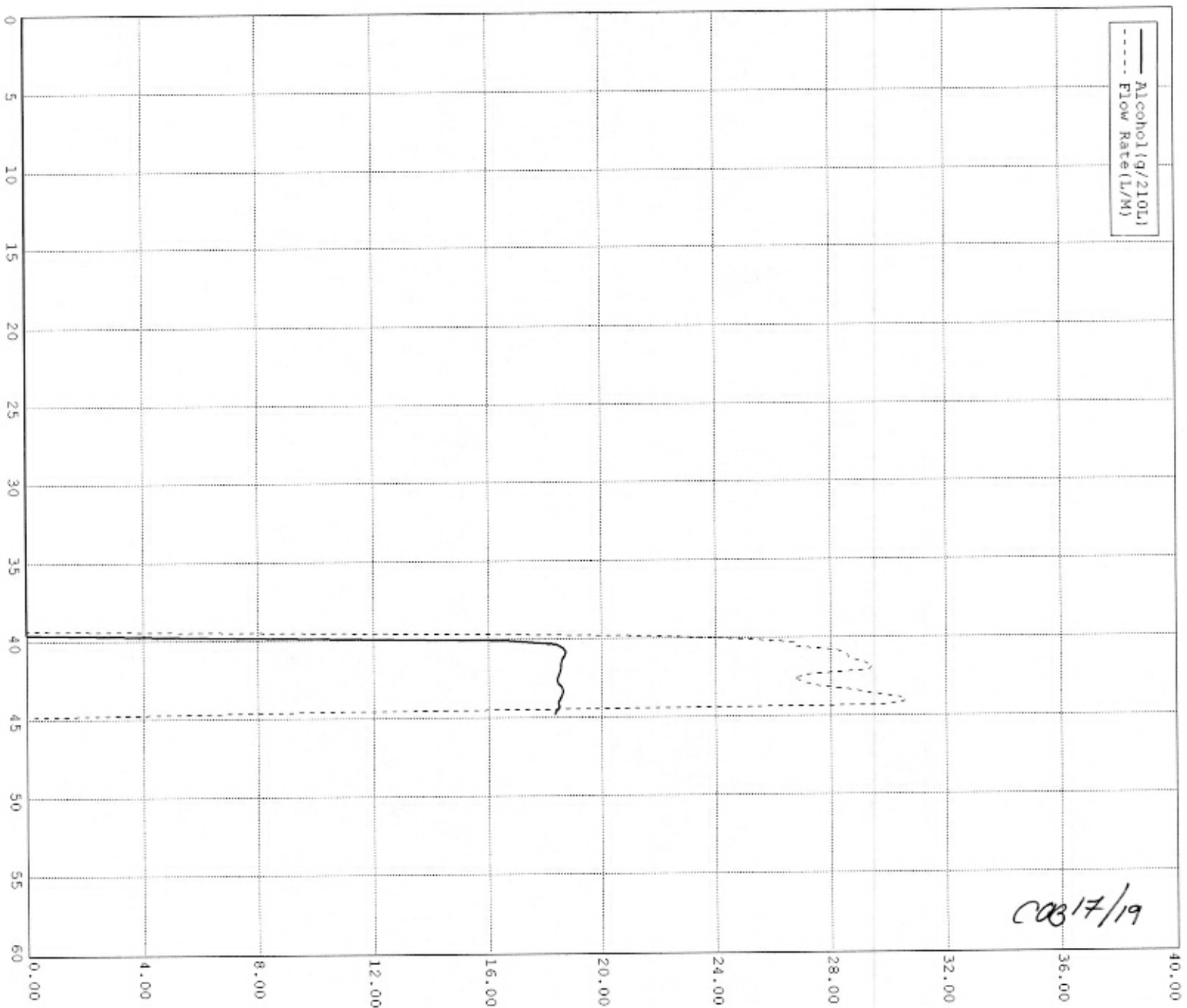
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.14: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:56
BLANK TEST	0.000	09:57
INTERNAL STANDARD	VERIFIED	09:57
Xq = 0.084 (0.72%)		
EXTERNAL STANDARD	0.081	09:57
X[1] = 0.0810 (0.0007)	(0.0007)	
BLANK TEST	0.000	09:58
SUBJECT SAMPLE (Vol=2.29L)	0.091	09:59
X[1] = 0.0914 (-0.0001)	(-0.0007)	
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.080	10:00
X[1] = 0.0809 (0.0009)	(0.0001)	
BLANK TEST	0.000	10:01

CAB



CAB 7/19

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100380

Date: 07/25/2012
Time: 10:03:00

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

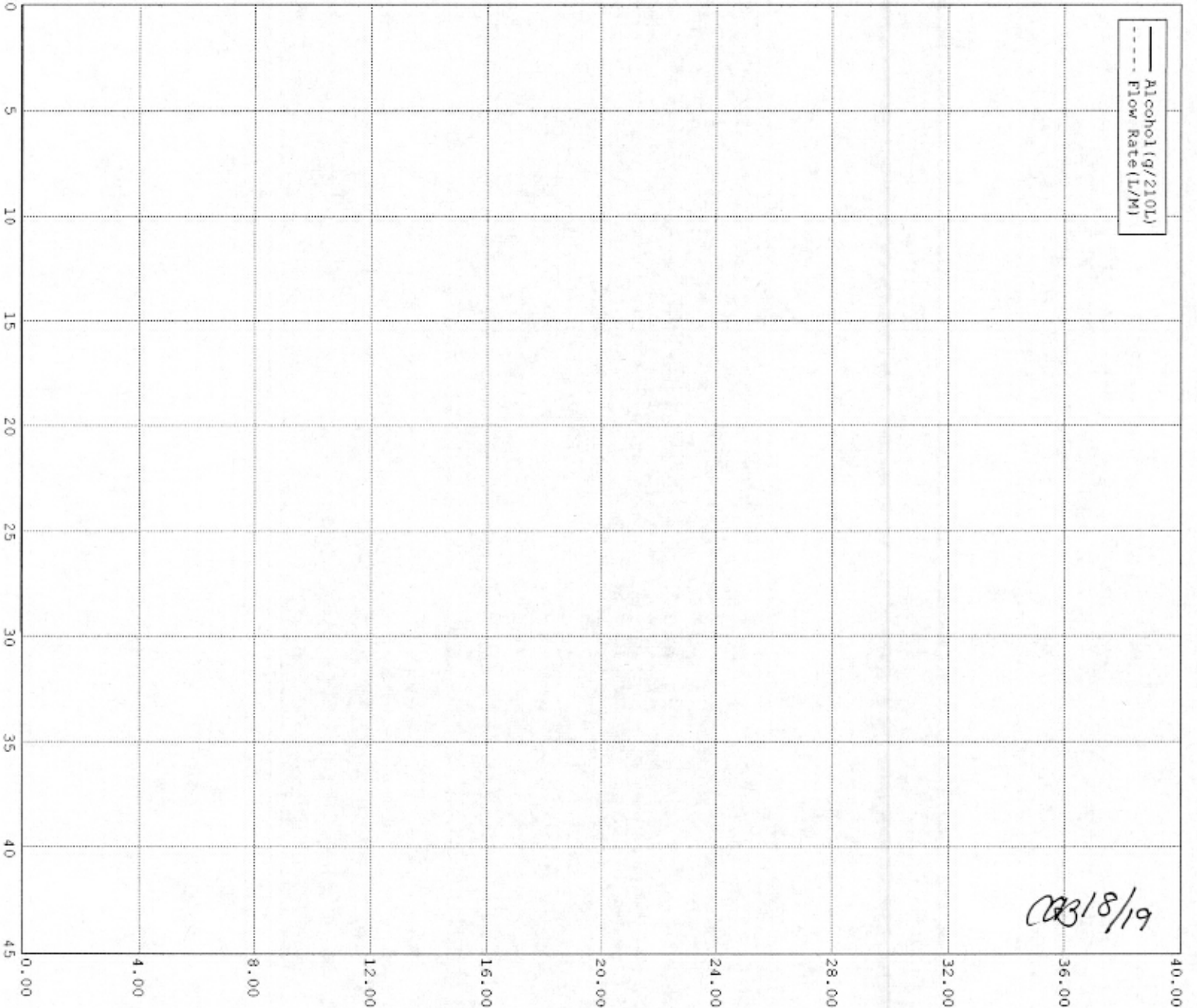
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.14: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:10
BLANK TEST	0.000	10:10
INTERNAL STANDARD	VERIFIED	10:10
EXTERNAL STANDARD	0.080	10:10
BLANK TEST	0.000	10:11

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100380

Date: 07/25/2012
Time: 10:21:53

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

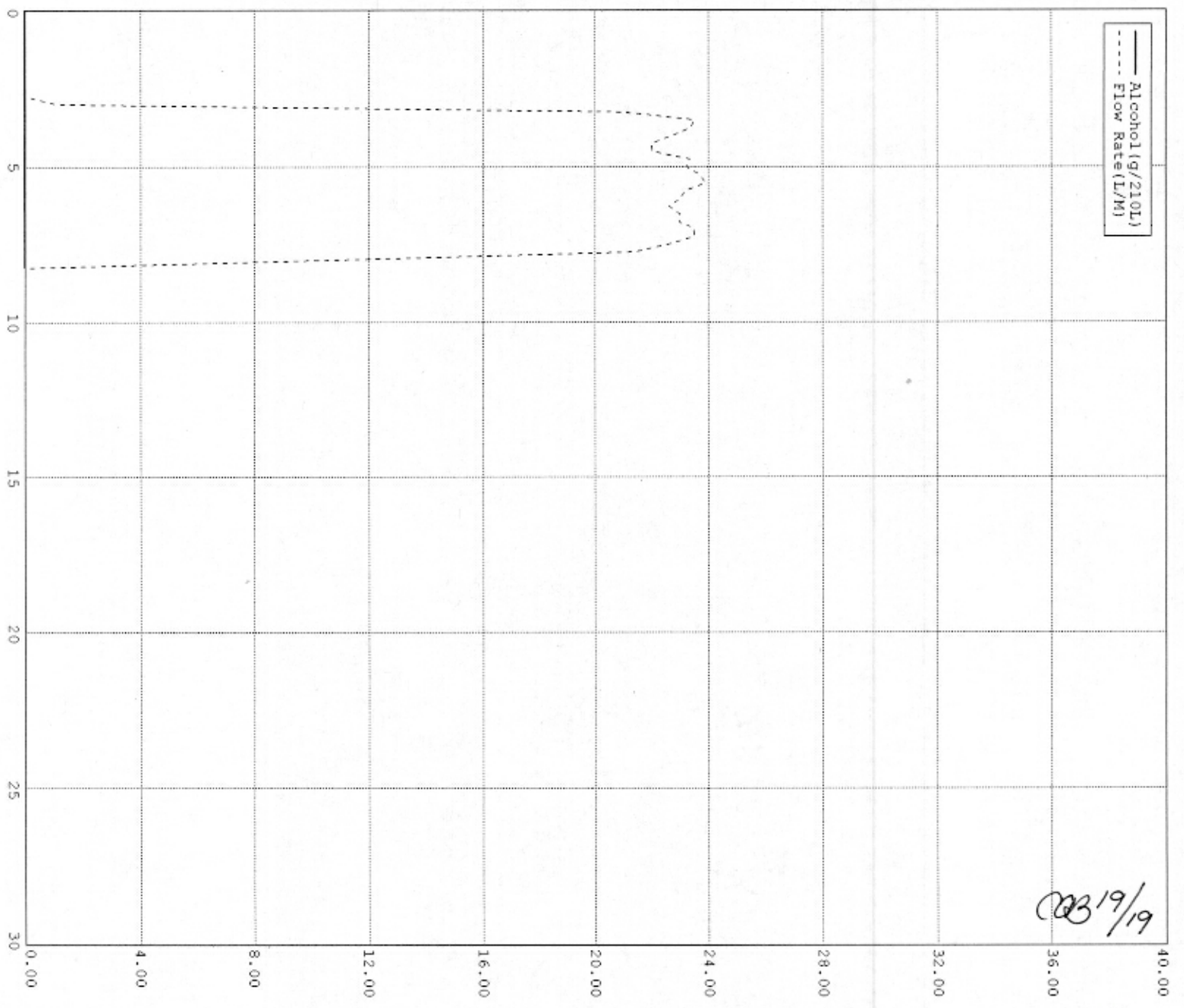
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.13: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:22
BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED	10:23
EXTERNAL STANDARD	0.081	10:23
BLANK TEST	0.000	10:24
SUBJECT SAMPLE	0.000	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.081	10:25
BLANK TEST	0.000	10:26

CS



Final page for report

\

VANCSCLSAN01\JTRAX\CASEDOCS\B-100380\B-100380_ECF-20140

7/3/2014