

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100700 Analyst Colleen Start Date 9/23/13

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 00813020A1 Exp 03/01/2015

ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 03/01/2015

iii. 0.080g/210L Mnf ILMO Lot 11313080A1 Exp 03/01/2015

iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 03/01/2015

v. 0.200g/210L Mnf Guth Lot 12120 Exp 08/10/2014

1. Simulator S/N SD1198 Date Calibrated 01/23/2013

vi. 0.300g/210L Mnf Guth Lot 13080 Exp 03/19/2015

1. Simulator S/N SD1198 Date Calibrated 01/23/2013

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 13010 Level 0.100 Exp 01/09/2015

1. Simulator S/N DR5298 Date Calibrated 10/08/2012

ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 01/09/2015

1. Simulator S/N SD1202 Date Calibrated 10/09/2012

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

1. Simulator S/N SD1199 Date Calibrated 01/23/2013

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 9/23/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100700

Date: 09/23/2013
Time: 09:19:17

VERSIONS
DMT: 2.00
PIC: 3.03
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 4.496 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: 100700

Date: 09/23/2013
Time: 9:45 AM

Temperatures (°C)

Sample Cell: 49.1°C
Breath Tube: 47.7°C

Current Barometer 28.8 in
Volume (Ltr) 1.50

Settings

Lamp: 1.73 V
Bias: 79 V
Cooler: 1.66 V
Chopper: 545 Hz

Voltages (V)

Flow: 1.07 V
Detector: 0.066 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100700

Date: 11/02/2011
Time: 08:45:04

Ca = 0.1000
CAL = 0.979351 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0040 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xq = 0.0805 0.0500 <= Xq < 0.2000
a21 = 1.149740 1.050 <= a21 < 1.300
a31 = 0.537738 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100700

Date: 09/23/2013
Time: 10:30:42

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

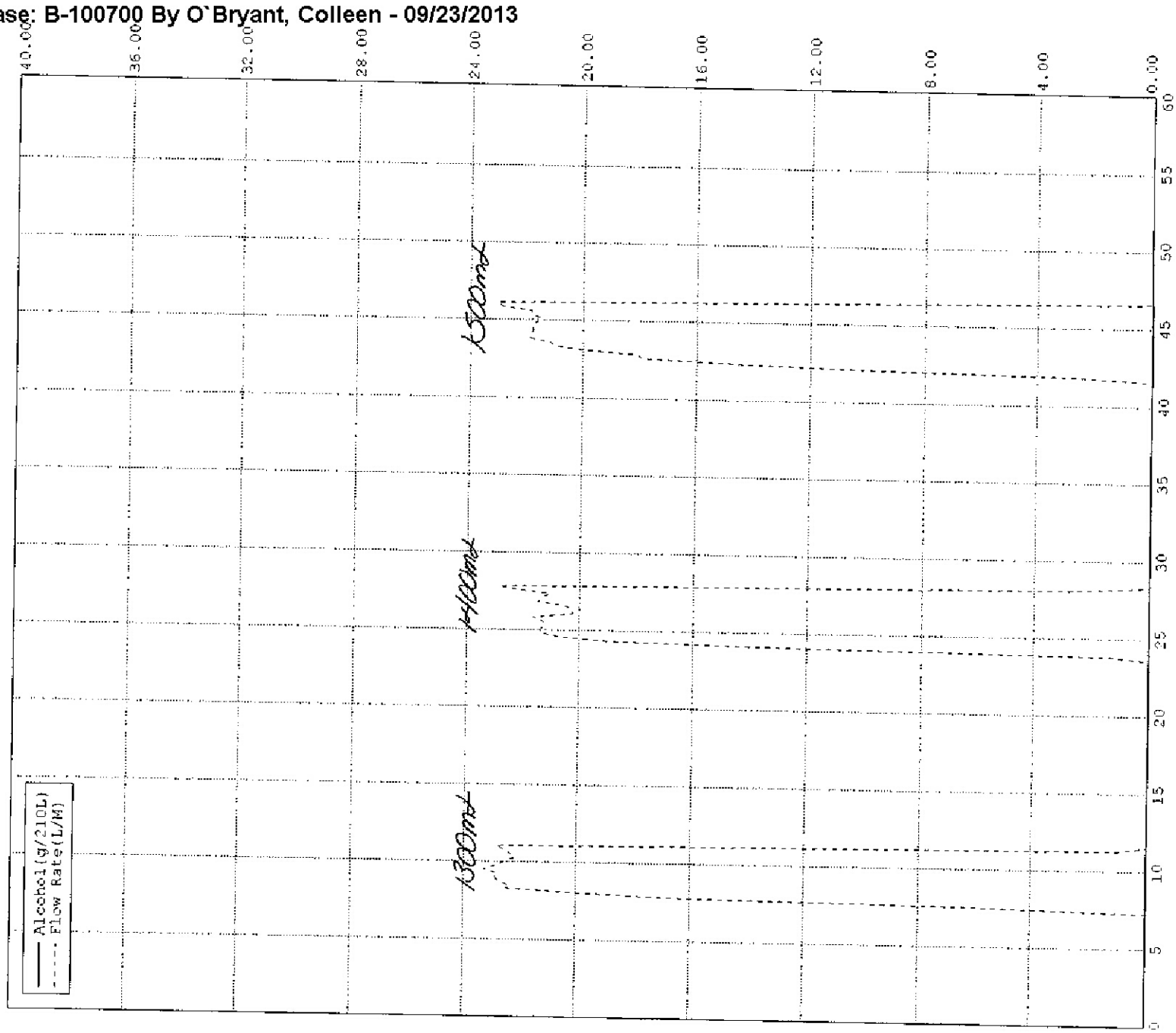
DEPT/AGENCY:
AAA1

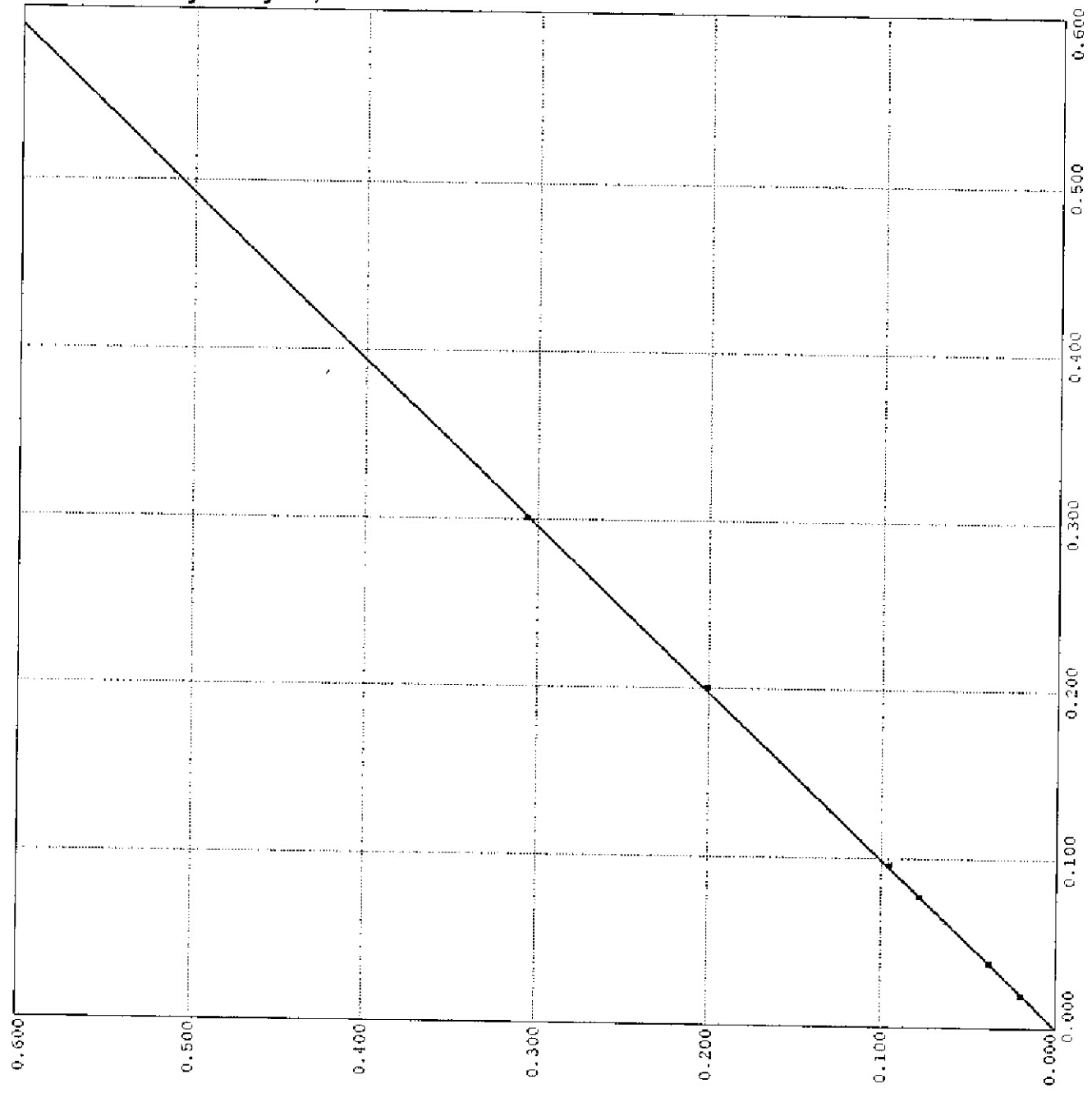
CASE/REPORT: 13-12
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.81: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

| | | |
|-------------------|----------|-------|
| DIAGNOSTIC CHECK | PASSED | 10:31 |
| BLANK TEST | 0.000 | 10:31 |
| INTERNAL STANDARD | VERIFIED | 10:31 |
| EXTERNAL STANDARD | 0.078 | 10:32 |
| BLANK TEST | 0.000 | 10:33 |
| SUBJECT SAMPLE | 0.000 | 10:33 |
| BLANK TEST | 0.000 | 10:34 |
| EXTERNAL STANDARD | 0.079 | 10:35 |
| BLANK TEST | 0.000 | 10:36 |





| LINEARITY CHECK | |
|------------------------------------|------------|
| ----- | |
| Alaska Department of Public Safety | |
| DATAMASTER dmt: 100700 | |
| ----- | |
| Date: 09/23/2013 | |
| Time: 10:54:44 | |
| ----- | |
| SUPERVISOR NAME: | |
| COLLEEN S O'BRYANT | |
| OPERATOR'S #: 6237 | |
| TARGET | AVERAGE |
| 0.019 | 0.0207 |
| 0.038 | 0.0395 |
| 0.077 | 0.0795 |
| 0.096 | 0.0963 |
| 0.200 | 0.2020 |
| 0.300 | 0.3071 |
| | STD. DEV. |
| | 0.0002 |
| | 0.0003 |
| | 0.0001 |
| | 0.0002 |
| | 0.0003 |
| | 0.0005 |
| SLOPE | = 1.017270 |
| R ² | = 0.999822 |

CNS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100700

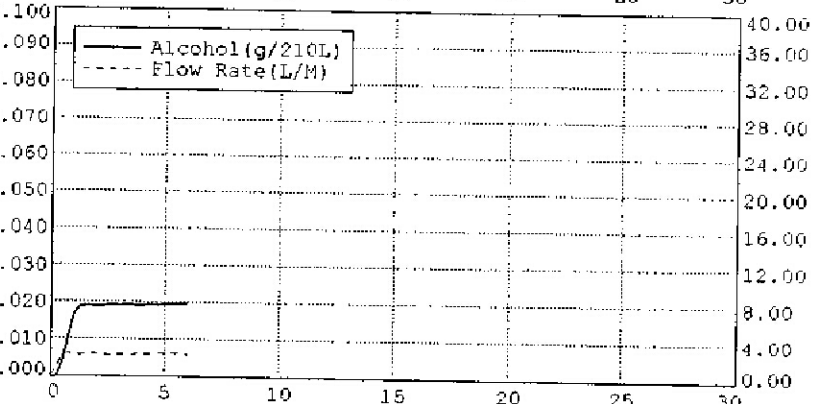
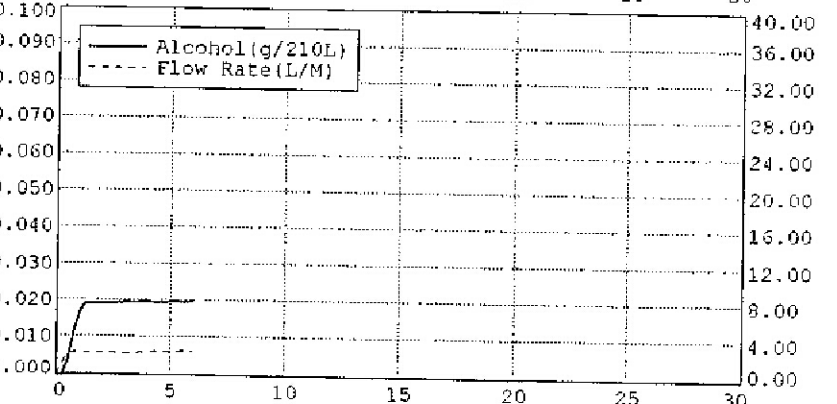
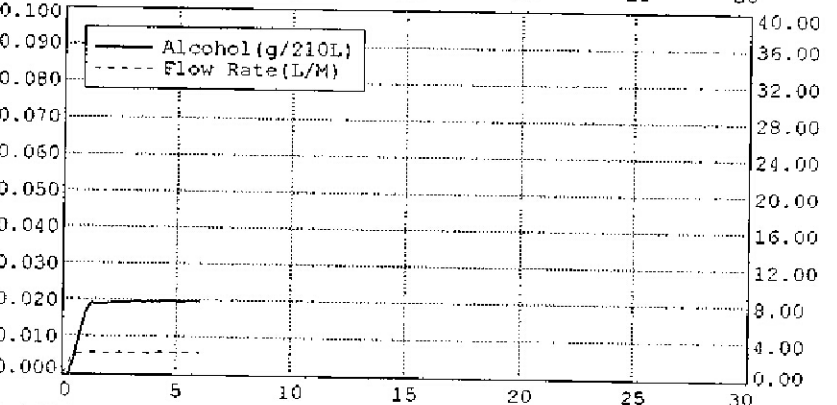
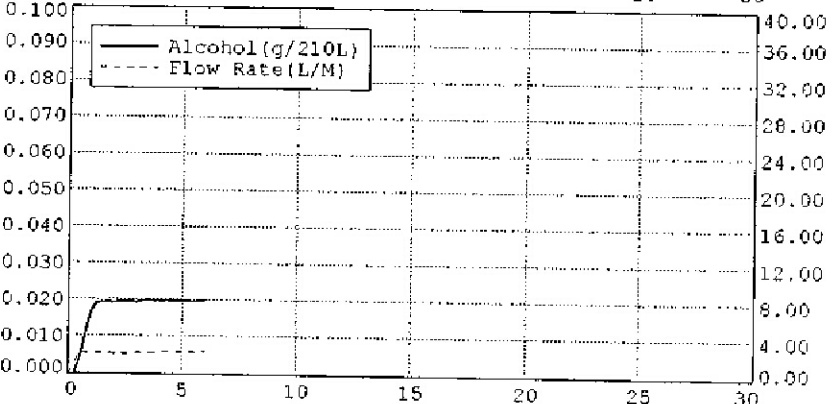
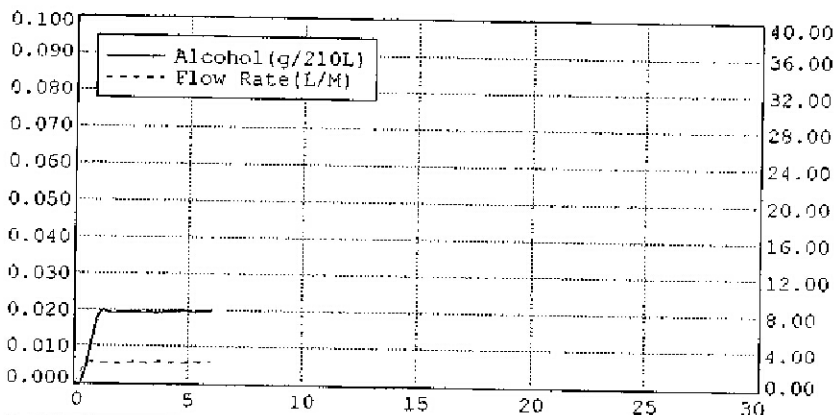
Date: 09/23/2013
 Time: 10:54:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 28.82: 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 10:59 |
| INTERNAL STANDARD | VERIFIED | 10:59 |
| EXTERNAL STANDARD | 0.020 | 10:59 |
| BLANK TEST | 0.000 | 11:00 |
| EXTERNAL STANDARD | 0.020 | 11:00 |
| BLANK TEST | 0.000 | 11:01 |
| EXTERNAL STANDARD | 0.020 | 11:01 |
| BLANK TEST | 0.000 | 11:02 |
| EXTERNAL STANDARD | 0.020 | 11:03 |
| BLANK TEST | 0.000 | 11:03 |
| EXTERNAL STANDARD | 0.020 | 11:04 |
| BLANK TEST | 0.000 | 11:05 |

Average = 0.0207
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

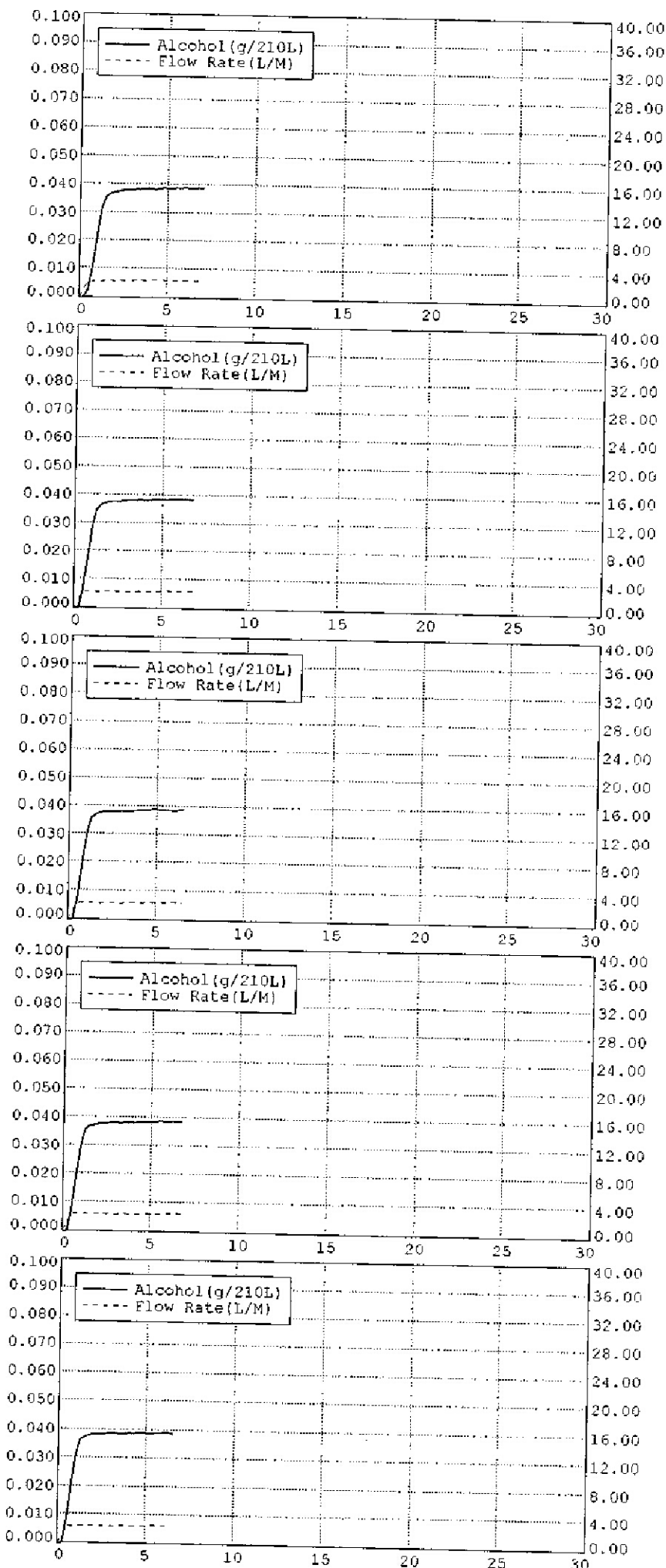
Alaska Department of Public Safety
 DATAMASTER dnt: 100700

Date: 09/23/2013
 Time: 12:14:34

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 28.84: 0.038
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 12:15 |
| INTERNAL STANDARD | VERIFIED | 12:15 |
| EXTERNAL STANDARD | 0.039 | 12:15 |
| BLANK TEST | 0.000 | 12:16 |
| EXTERNAL STANDARD | 0.039 | 12:17 |
| BLANK TEST | 0.000 | 12:17 |
| EXTERNAL STANDARD | 0.039 | 12:18 |
| BLANK TEST | 0.000 | 12:19 |
| EXTERNAL STANDARD | 0.039 | 12:19 |
| BLANK TEST | 0.000 | 12:20 |
| EXTERNAL STANDARD | 0.039 | 12:20 |
| BLANK TEST | 0.000 | 12:21 |

Average = 0.0395
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100700

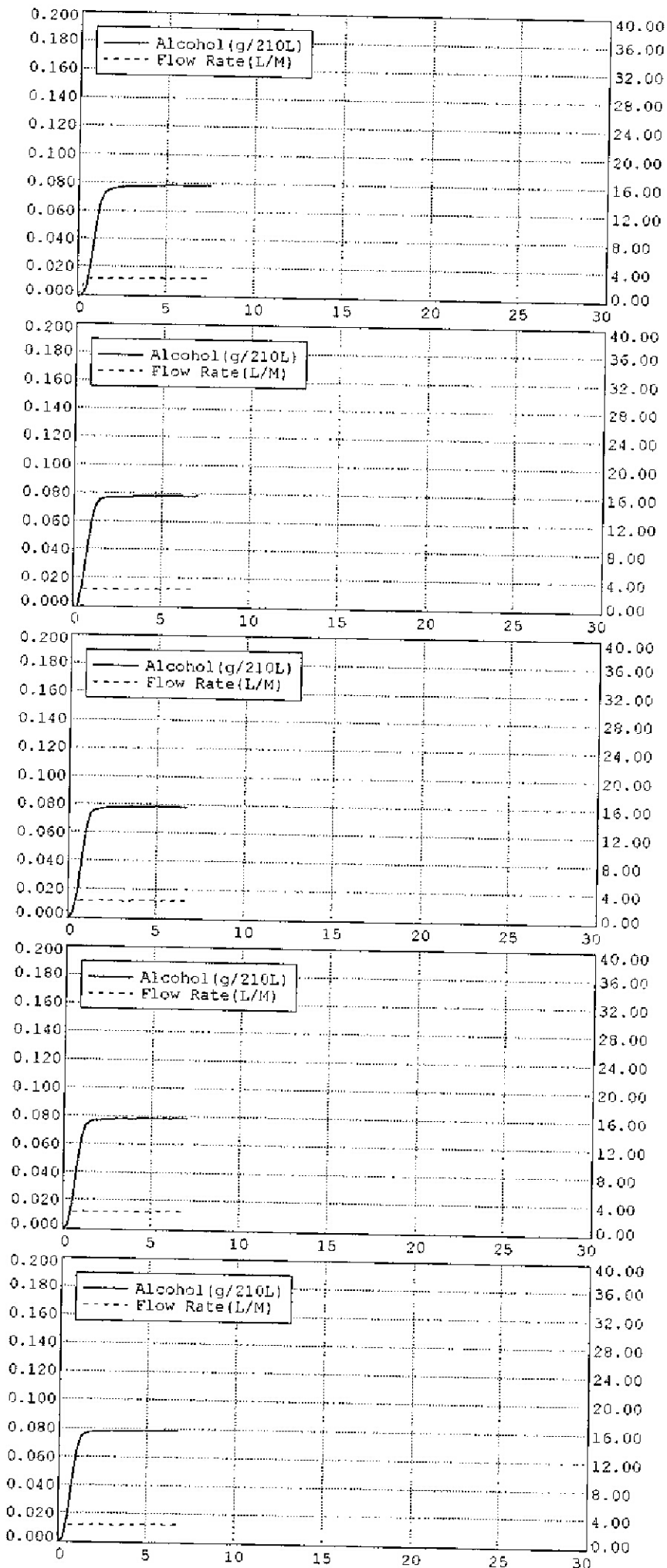
Date: 09/23/2013
 Time: 12:25:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 28.84: 0.077
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 12:26 |
| INTERNAL STANDARD | VERIFIED | 12:26 |
| EXTERNAL STANDARD | 0.079 | 12:26 |
| BLANK TEST | 0.000 | 12:27 |
| EXTERNAL STANDARD | 0.079 | 12:28 |
| BLANK TEST | 0.000 | 12:28 |
| EXTERNAL STANDARD | 0.079 | 12:29 |
| BLANK TEST | 0.000 | 12:30 |
| EXTERNAL STANDARD | 0.079 | 12:30 |
| BLANK TEST | 0.000 | 12:31 |
| EXTERNAL STANDARD | 0.079 | 12:31 |
| BLANK TEST | 0.000 | 12:32 |

Average = 0.0795
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100700

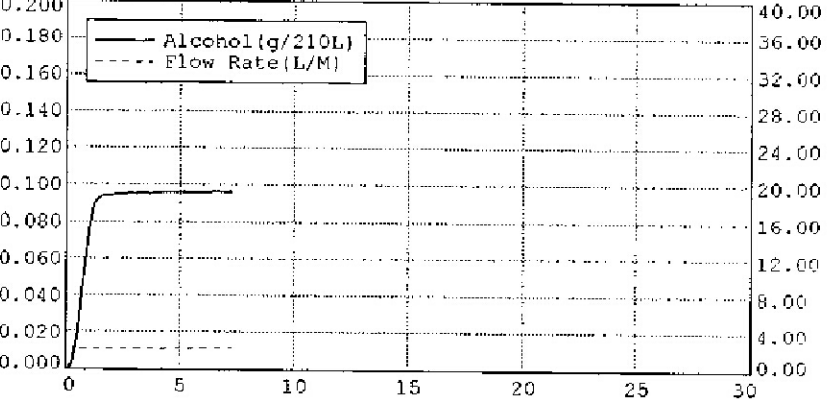
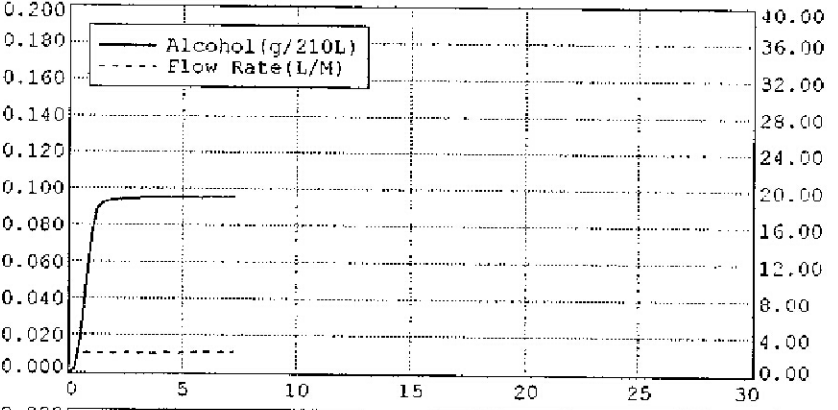
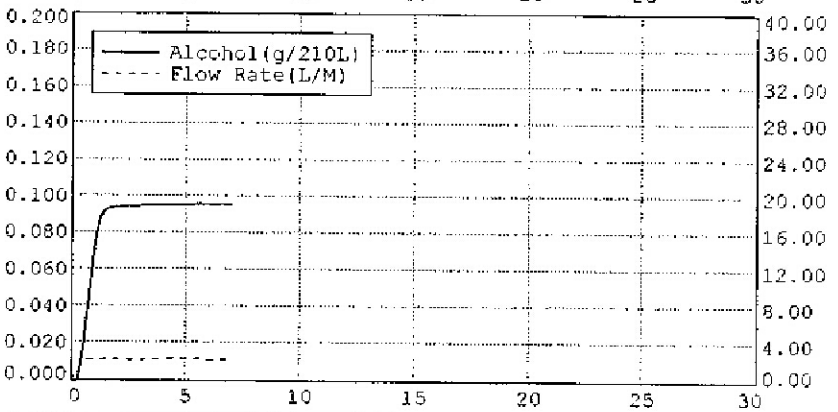
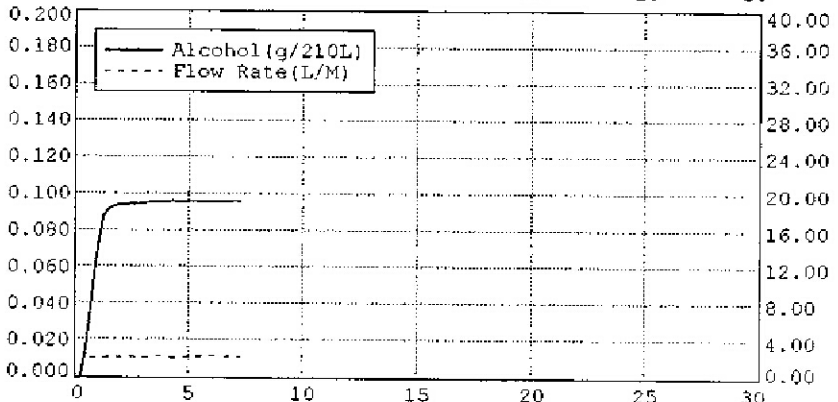
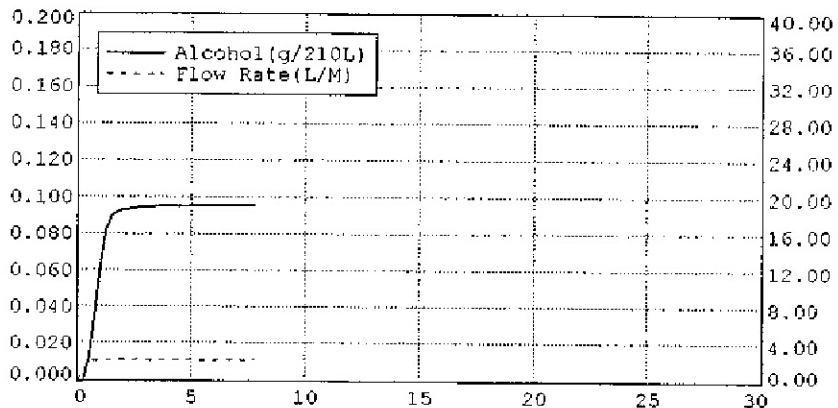
Date: 09/23/2013
 Time: 12:32:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 28.84: 0.096
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 12:34 |
| INTERNAL STANDARD | VERIFIED | 12:34 |
| EXTERNAL STANDARD | 0.096 | 12:34 |
| BLANK TEST | 0.000 | 12:35 |
| EXTERNAL STANDARD | 0.096 | 12:35 |
| BLANK TEST | 0.000 | 12:36 |
| EXTERNAL STANDARD | 0.096 | 12:37 |
| BLANK TEST | 0.000 | 12:37 |
| EXTERNAL STANDARD | 0.096 | 12:38 |
| BLANK TEST | 0.000 | 12:39 |
| EXTERNAL STANDARD | 0.096 | 12:39 |
| BLANK TEST | 0.000 | 12:40 |

Average = 0.0963
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

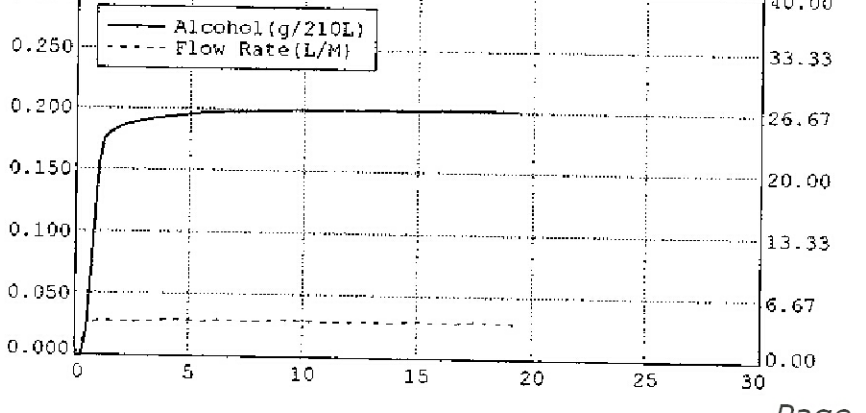
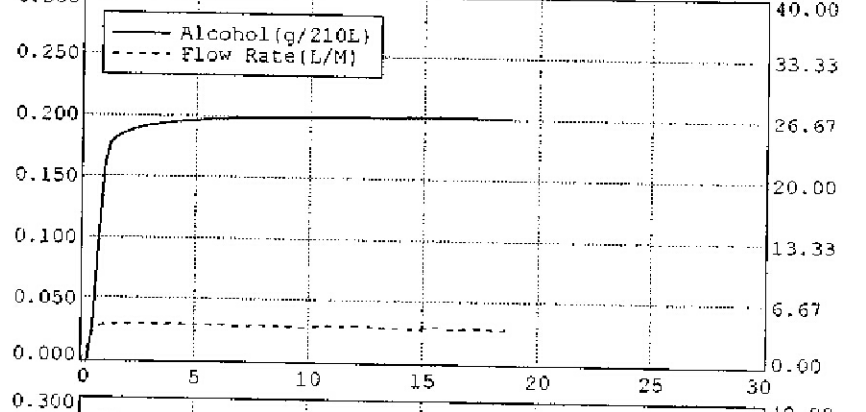
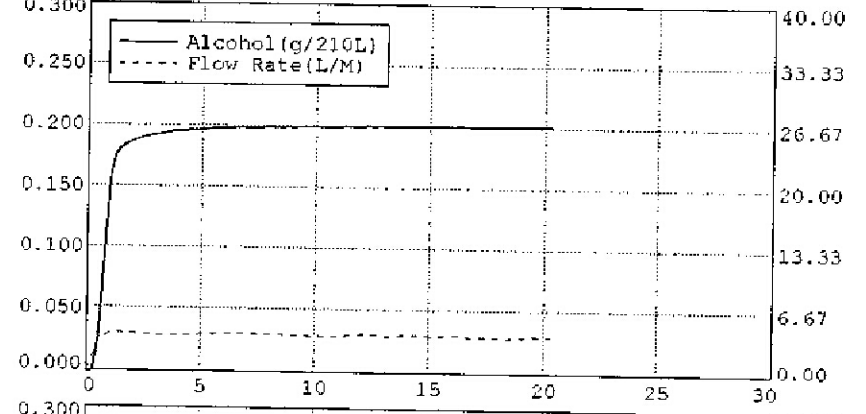
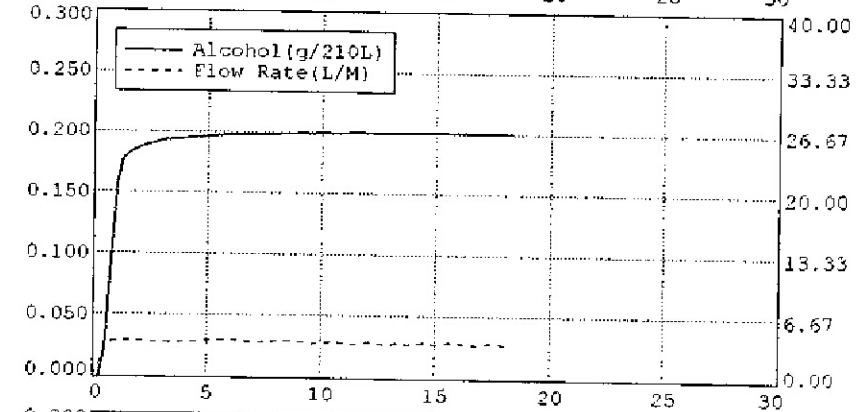
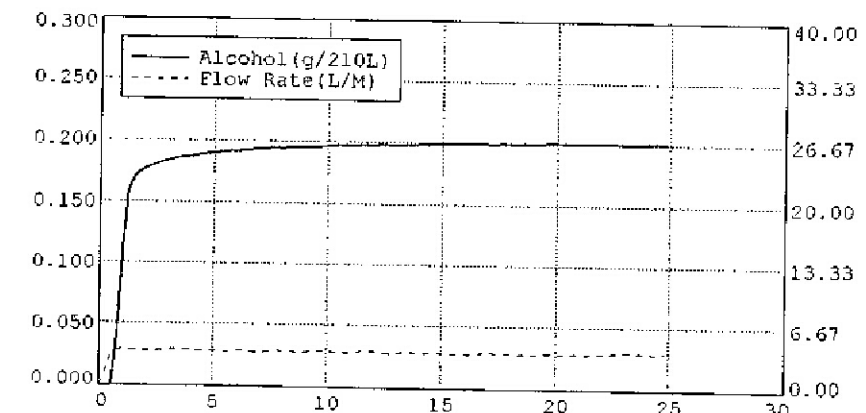
Alaska Department of Public Safety
 DATAMASTER dmt: 100700

Date: 09/23/2013
 Time: 12:44:03

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LCT #: 12120
 EXPIRATION: 08/10/2014

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 12:45 |
| INTERNAL STANDARD | VERIFIED | 12:45 |
| EXTERNAL STANDARD | 0.202 | 12:46 |
| BLANK TEST | 0.000 | 12:47 |
| EXTERNAL STANDARD | 0.201 | 12:47 |
| BLANK TEST | 0.000 | 12:48 |
| EXTERNAL STANDARD | 0.202 | 12:48 |
| BLANK TEST | 0.000 | 12:49 |
| EXTERNAL STANDARD | 0.202 | 12:50 |
| BLANK TEST | 0.000 | 12:51 |
| EXTERNAL STANDARD | 0.202 | 12:51 |
| BLANK TEST | 0.000 | 12:52 |

Average = 0.2020
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

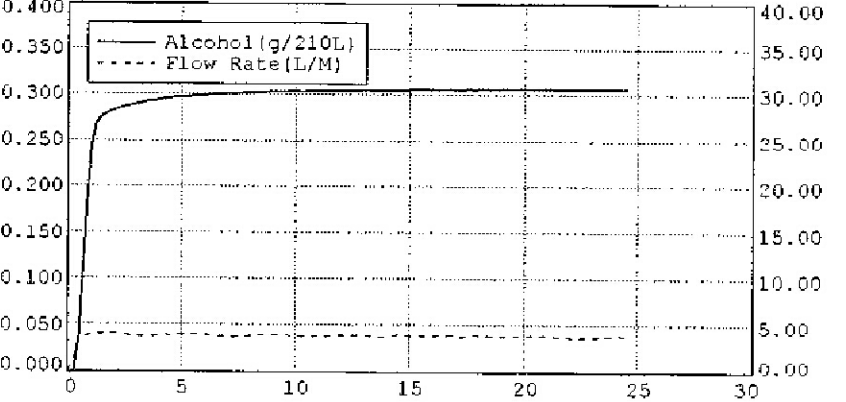
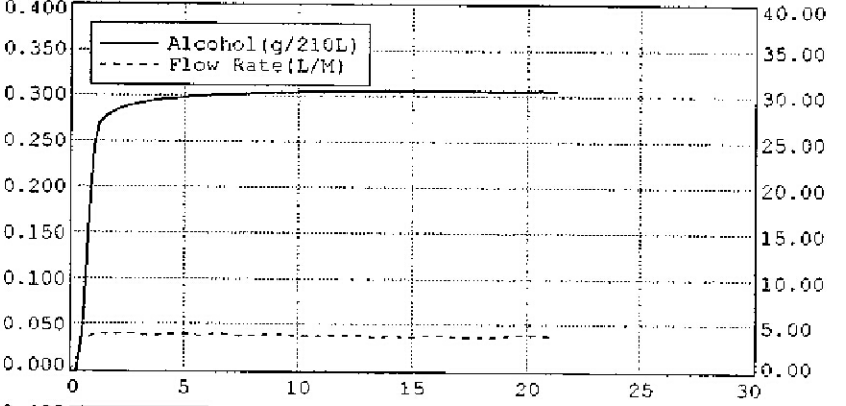
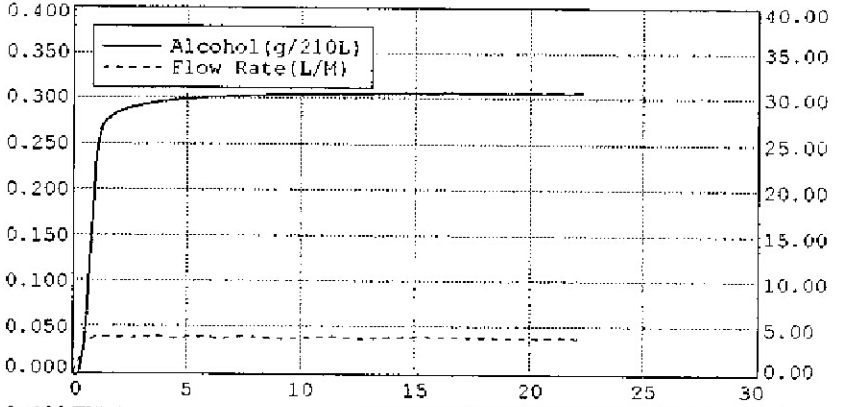
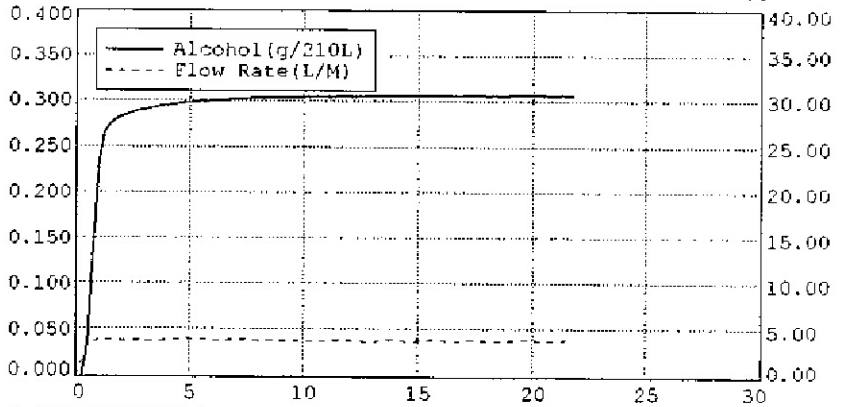
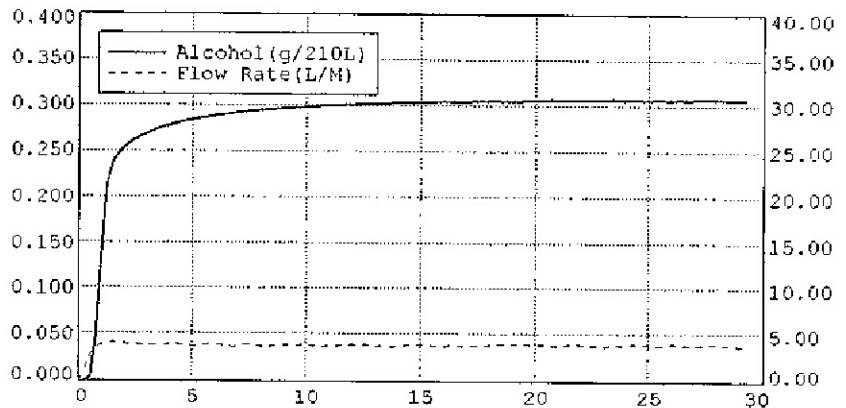
Alaska Department of Public Safety
DATAMASTER dmt: 100700

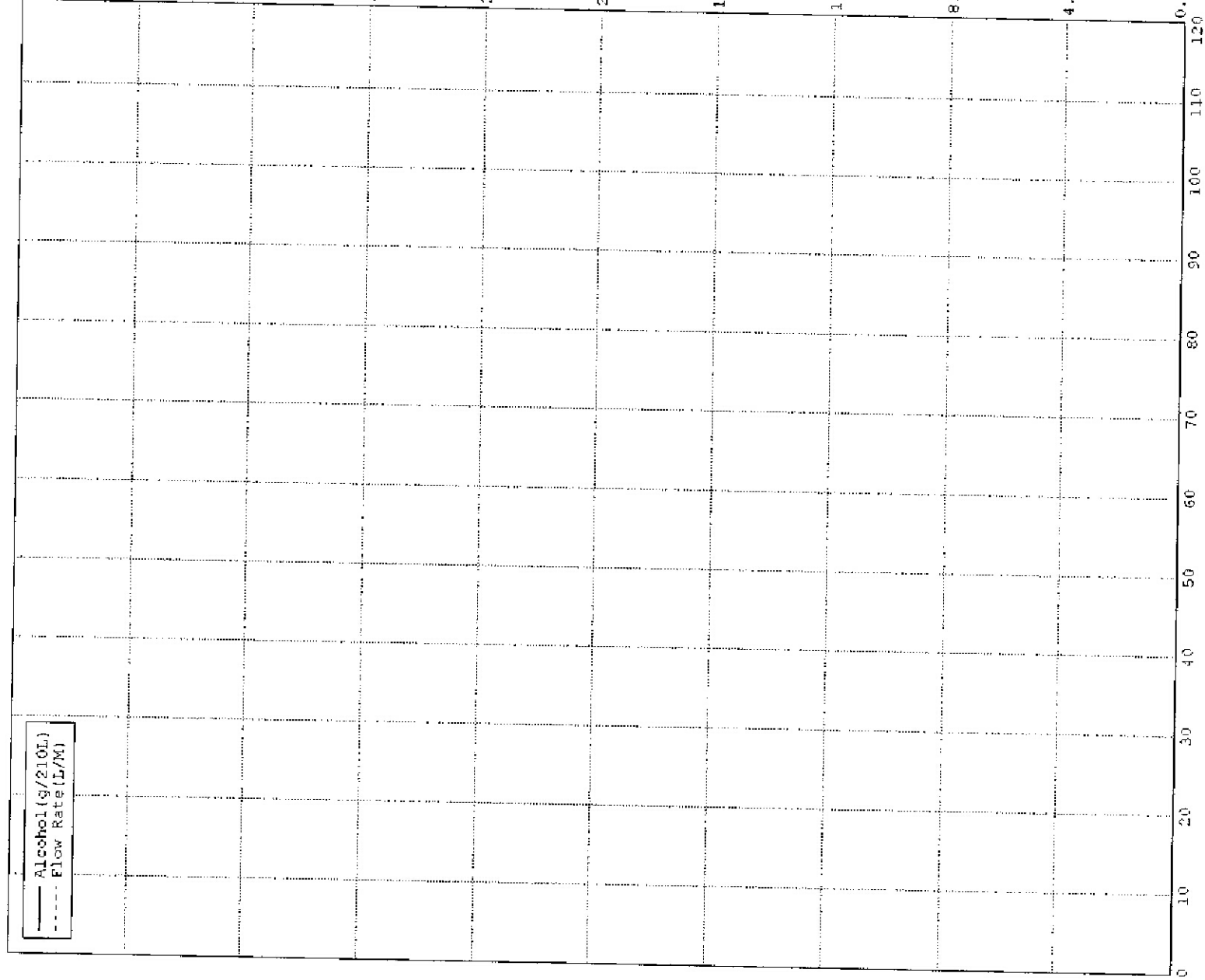
Date: 09/23/2013
Time: 12:54:59

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
LOT #: 13080
EXPIRATION: 03/19/2015

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 12:56 |
| INTERNAL STANDARD | VERIFIED | 12:56 |
| EXTERNAL STANDARD | 0.307 | 12:57 |
| BLANK TEST | 0.000 | 12:58 |
| EXTERNAL STANDARD | 0.307 | 12:58 |
| BLANK TEST | 0.000 | 12:59 |
| EXTERNAL STANDARD | 0.307 | 12:59 |
| BLANK TEST | 0.000 | 13:00 |
| EXTERNAL STANDARD | 0.306 | 13:01 |
| BLANK TEST | 0.000 | 13:02 |
| EXTERNAL STANDARD | 0.307 | 13:02 |
| BLANK TEST | 0.000 | 13:03 |

Average = 0.3071
Std Dev = 0.0005





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100700

Date: 09/23/2013
 Time: 13:07:46

SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

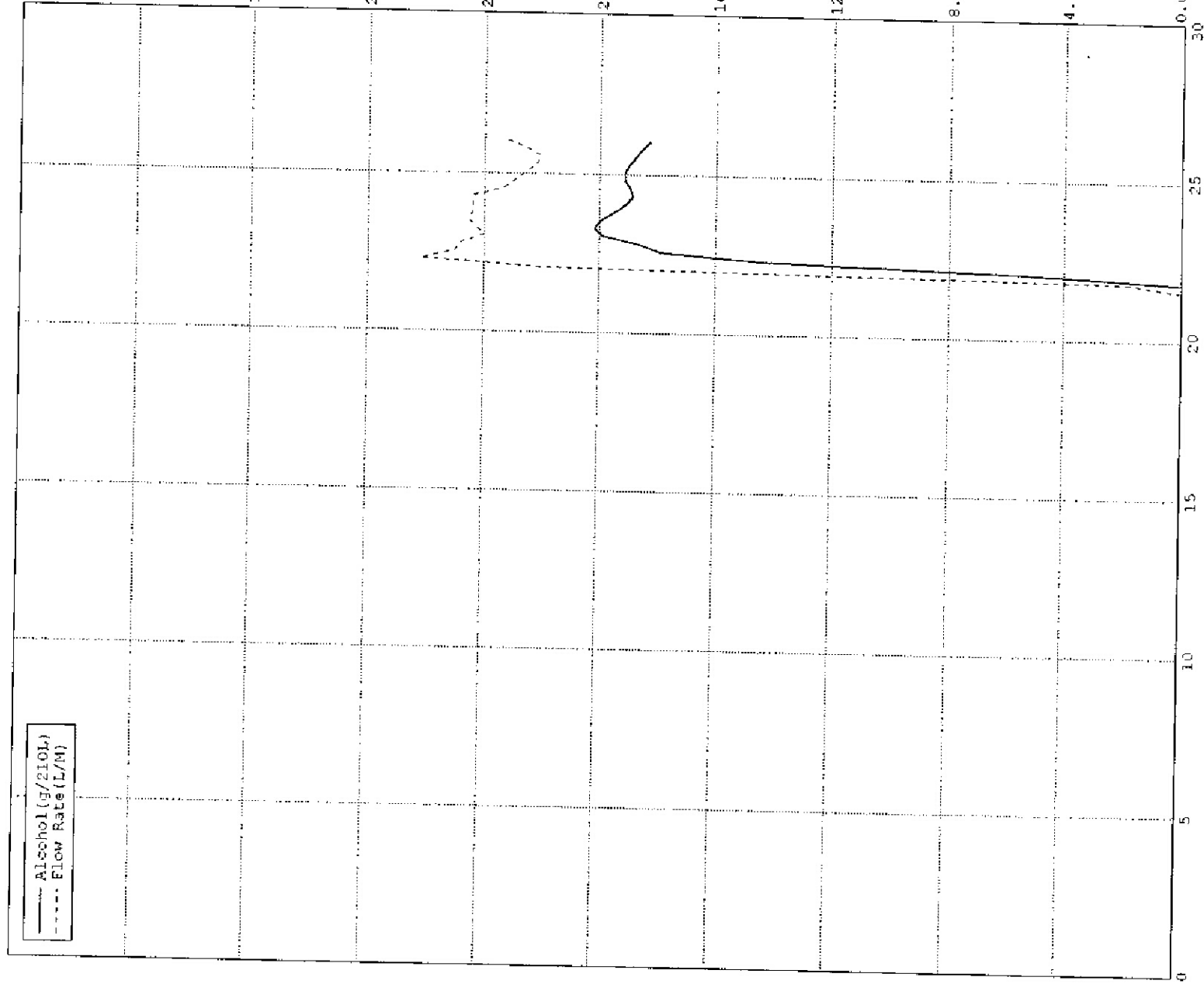
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1
 CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.86: 0.077
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK PASSED 13:08
 BLANK TEST 0.000 13:08
 INTERNAL STANDARD VERIFIED 13:09
 EXTERNAL STANDARD 0.079 13:09
 BLANK TEST 0.000 13:10
 SUBJECT SAMPLE INCOMPLETE 13:12

CB



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100700

 Date: 09/23/2013
 Time: 13:16:08

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

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

DEPT/AGENCY:
 AAAA

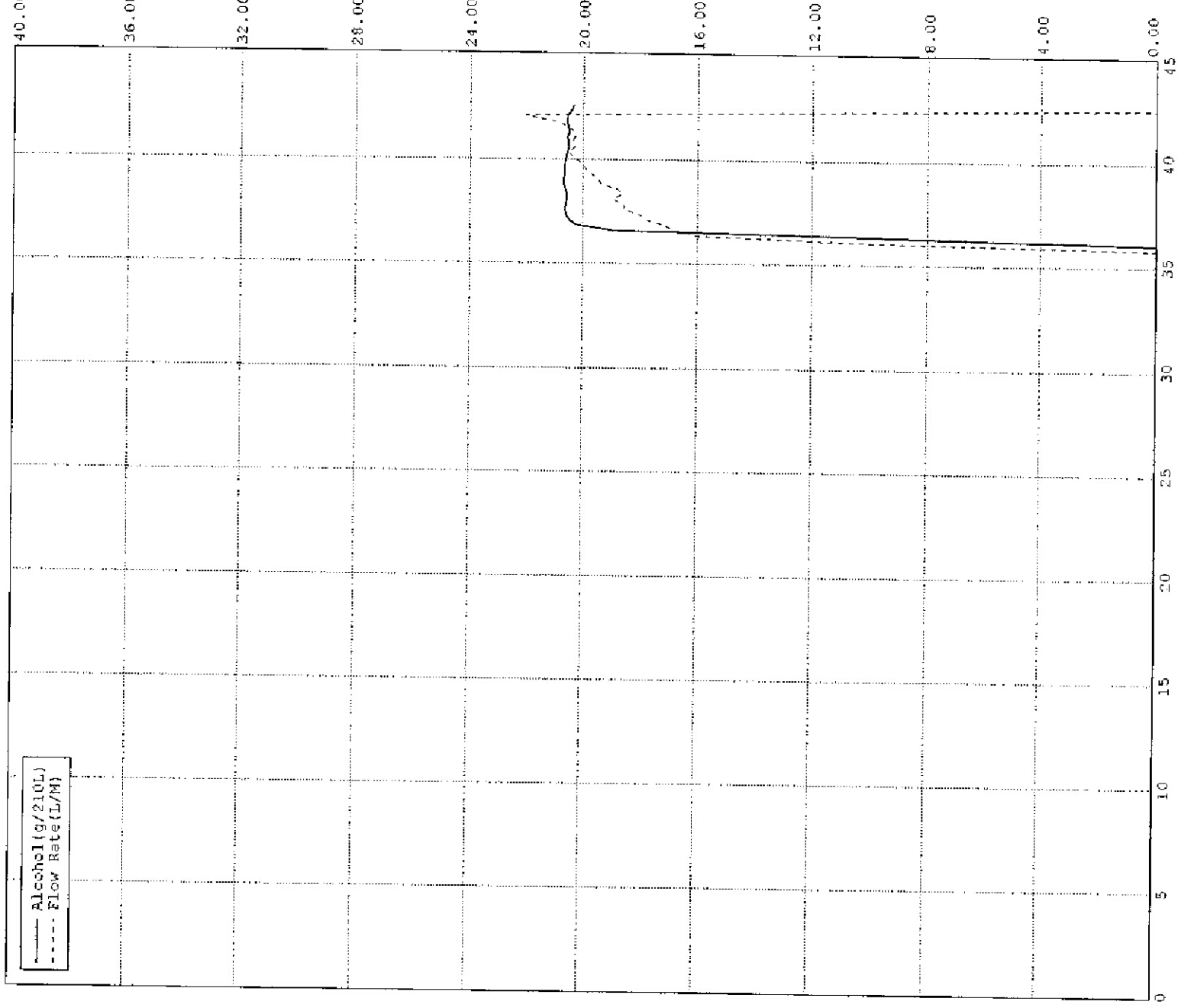
CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.86: 0.077
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

| | | |
|-------------------|----------|-------|
| DIAGNOSTIC CHECK | PASSED | 13:17 |
| BLANK TEST | 0.000 | 13:17 |
| INTERNAL STANDARD | VERIFIED | 13:17 |
| EXTERNAL STANDARD | 0.079 | 13:17 |
| BLANK TEST | 0.000 | 13:18 |
| SUBJECT SAMPLE | INVALID | 13:19 |

CB

Alcohol(g/210L)
Flow Rate(L/M)



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100700

 Date: 09/23/2013
 Time: 13:37:36

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

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

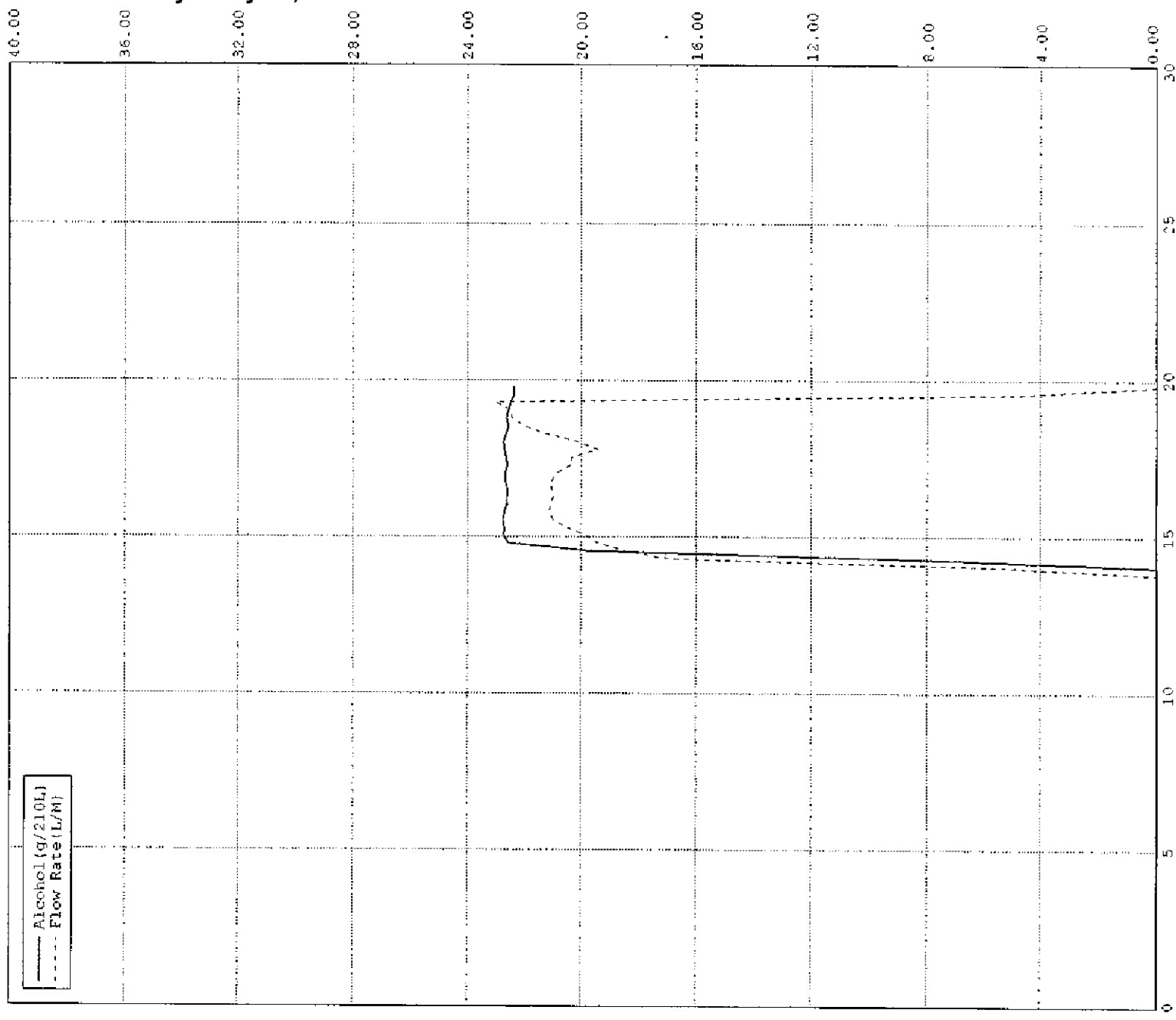
DEPT/AGENCY:
 AAAA

CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.88: 0.077
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

| | | |
|----------------------------------|--------------|-------|
| DIAGNOSTIC CHECK | PASSED | 13:39 |
| BLANK TEST | 0.000 | 13:39 |
| INTERNAL STANDARD | VERIFIED | 13:39 |
| Xq = 0.080 (0.65%) | | |
| EXTERNAL STANDARD | 0.079 | 13:39 |
| X[l] = 0.0793 (0.0006) (0.0027) | | |
| BLANK TEST | 0.000 | 13:40 |
| SUBJECT SAMPLE | INTERFERENCE | 13:41 |
| X[l] = 0.1019 (-0.0178) (0.0022) | | |

OB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100700

Date: 09/23/2013
 Time: 13:46:05

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

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

DEPT/AGENCY:
 AAAA1
 CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 28.87: 0.077
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

| | | |
|----------------------------------|--------------|-------|
| DIAGNOSTIC CHECK | PASSED | 13:47 |
| BLANK TEST | 0.000 | 13:47 |
| INTERNAL STANDARD | VERIFIED | 13:47 |
| Xg = 0.081 (0.00%) | | |
| EXTERNAL STANDARD | 0.080 | 13:48 |
| X[1] = 0.0800 (0.0011) (0.0029) | | |
| BLANK TEST | 0.000 | 13:49 |
| SUBJECT SAMPLE | INTERFERENCE | 13:49 |
| X[1] = 0.1120 (-0.0209) (0.0016) | | |

CSB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100700

Date: 09/23/2013
Time: 13:52:21

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

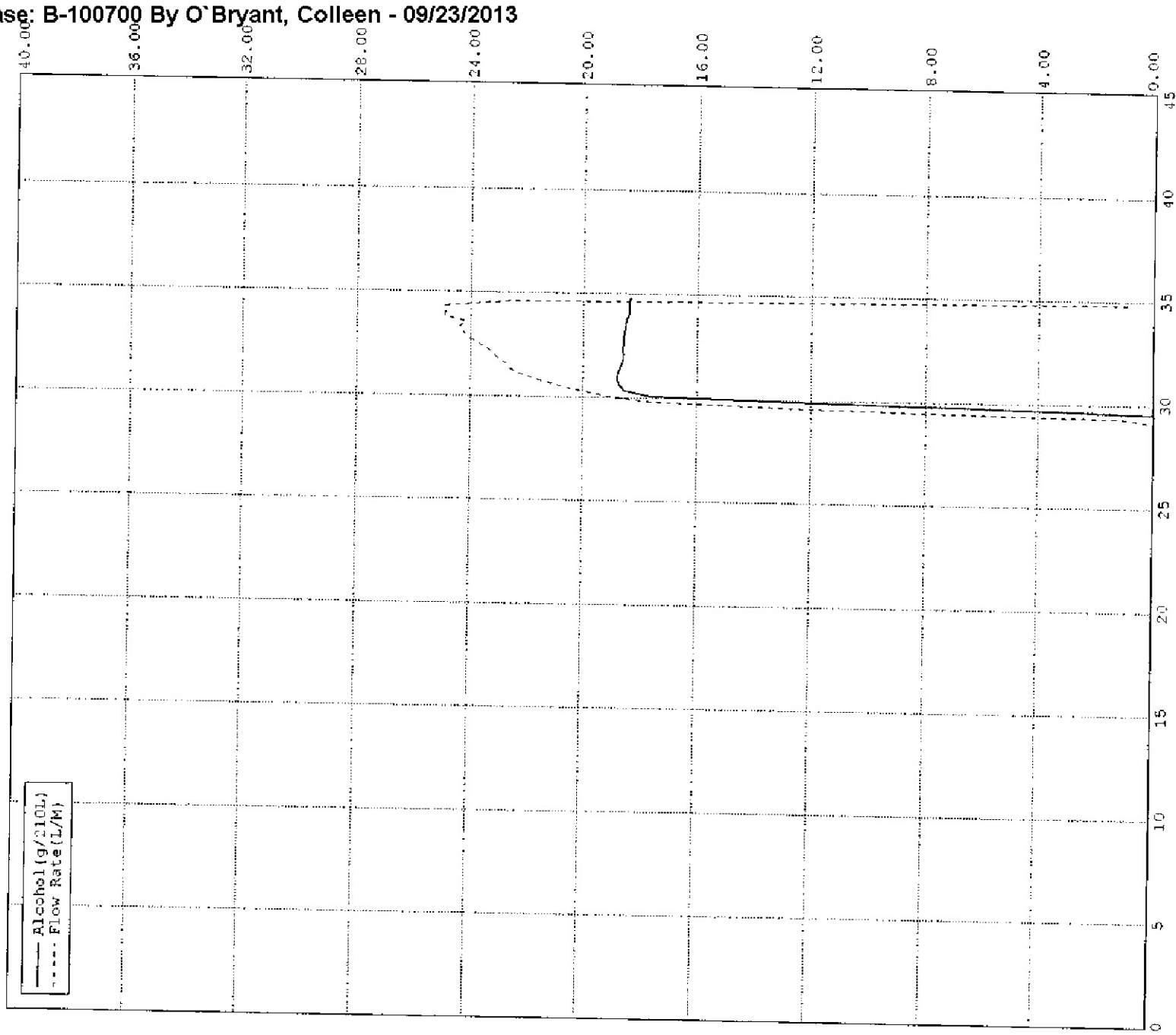
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 13-1234
TEST TYPE: TEST

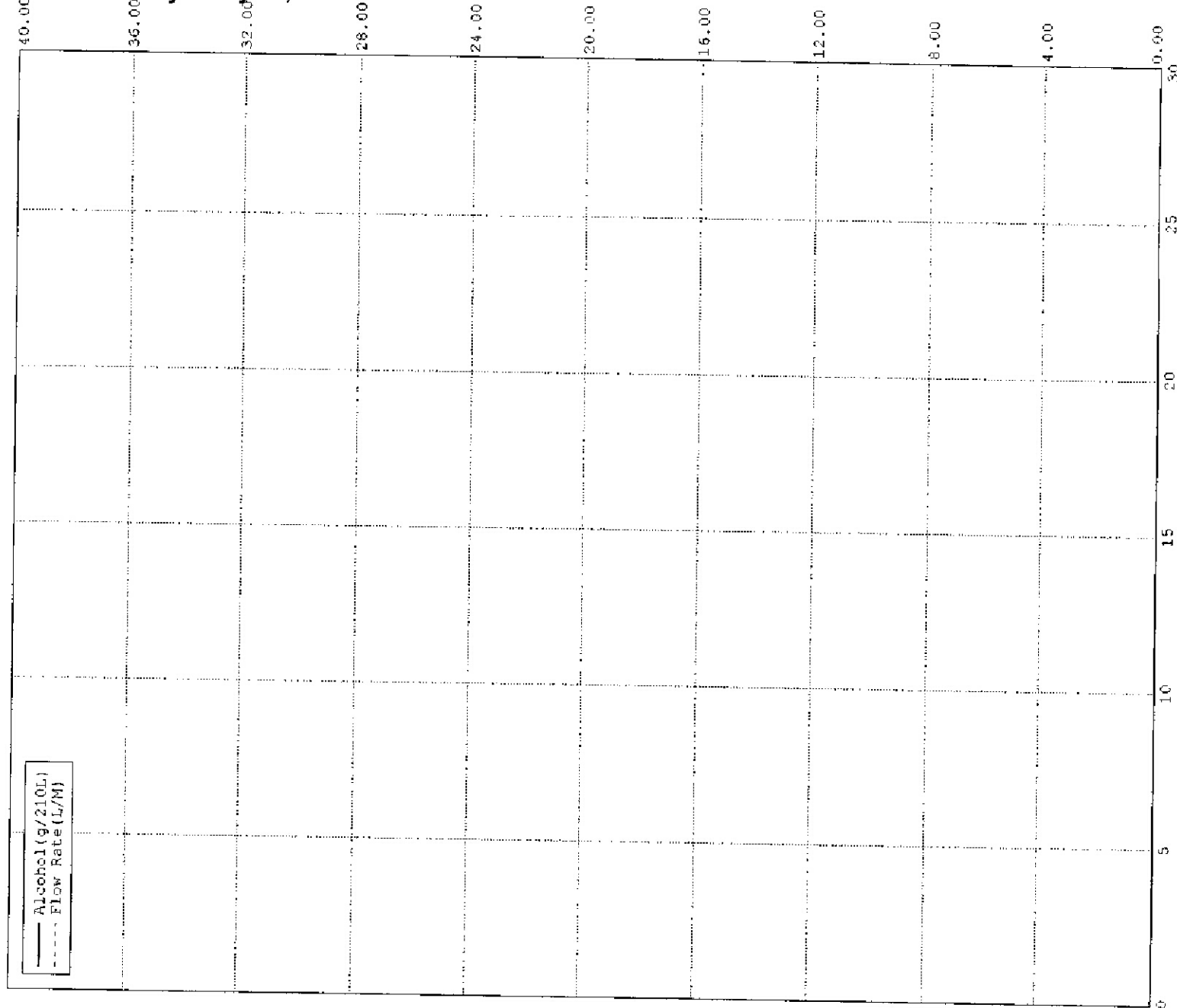
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.88: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

| | | |
|---------------------------------|----------|-------|
| DIAGNOSTIC CHECK | PASSED | 13:54 |
| BLANK TEST | 0.000 | 13:54 |
| INTERNAL STANDARD | VERIFIED | 13:54 |
| Xq = 0.080 (0.97%) | | |
| EXTERNAL STANDARD | 0.079 | 13:55 |
| X[1] = 0.0796 (0.0014) (0.0023) | | |
| BLANK TEST | 0.000 | 13:56 |
| SUBJECT SAMPLE (Vol=1.94L) | 0.091 | 13:56 |
| X[1] = 0.0919 (0.0003) (0.0012) | | |
| BLANK TEST | 0.000 | 13:57 |
| EXTERNAL STANDARD | 0.079 | 13:57 |
| X[1] = 0.0795 (0.0002) (0.0021) | | |
| BLANK TEST | 0.000 | 13:58 |



Alcohol (g/210L)
Flow Rate (L/M)



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100700

Date: 09/23/2013
Time: 14:01:42

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

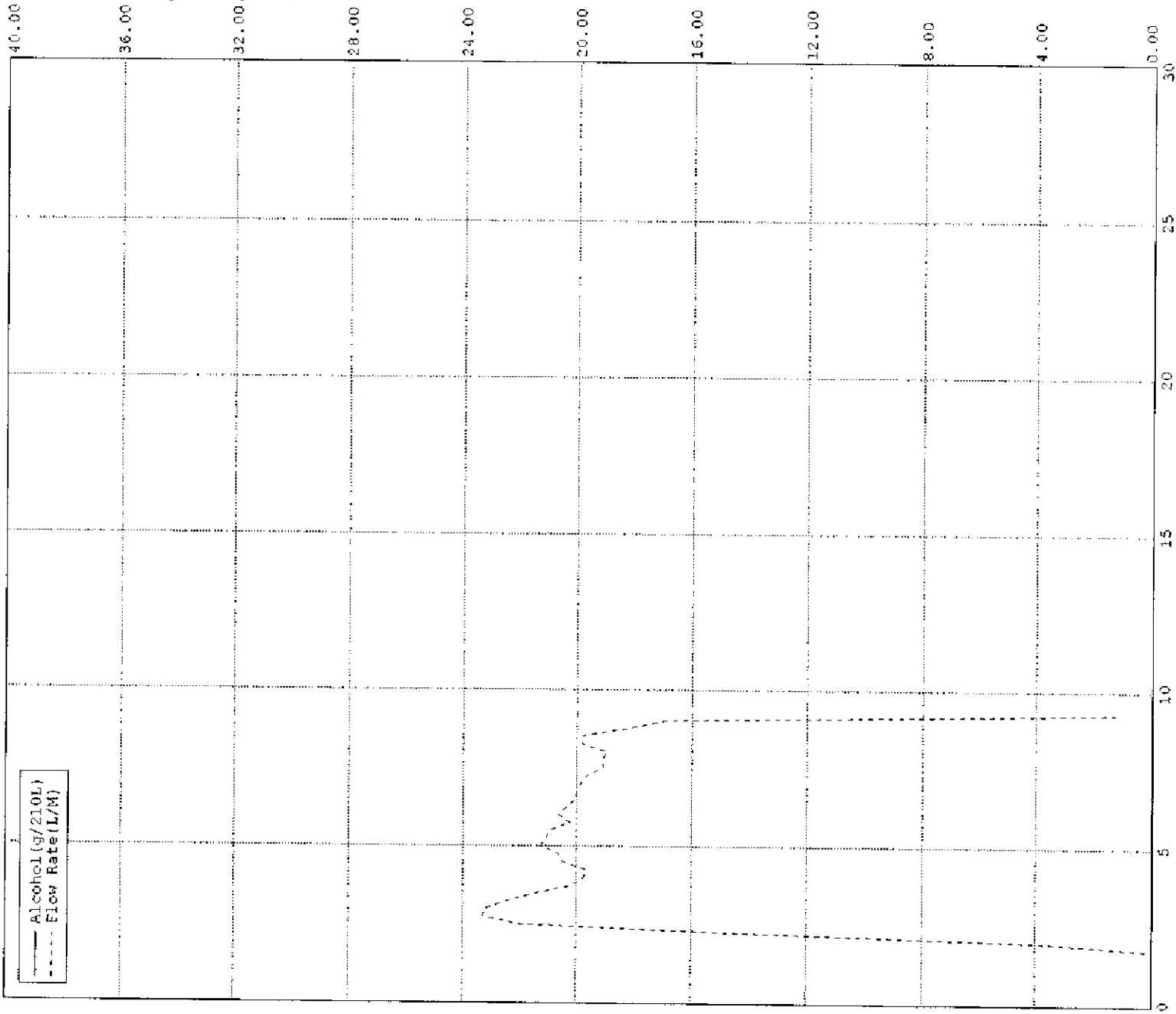
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 13-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.090
TARGET AT 28.88: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK PASSED 14:02
BLANK TEST 0.000 14:03
INTERNAL STANDARD VERIFIED 14:03
EXTERNAL STANDARD 0.079 14:03
BLANK TEST 0.000 14:04

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100700

Date: 09/23/2013
 Time: 14:18:07

SUBJECT NAME:
 TEST TEST
 LICENSE #: NONDRINKING

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

DEPT/AGENCY:
 AAAL
 CASE/REPORT: 13-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.88: 0.077
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

| TEST TYPE | RESULT | TIME |
|-------------------|----------|-------|
| DIAGNOSTIC CHECK | PASSED | 14:19 |
| BLANK TEST | 0.000 | 14:19 |
| INTERNAL STANDARD | VERIFIED | 14:19 |
| EXTERNAL STANDARD | 0.080 | 14:19 |
| BLANK TEST | 0.000 | 14:20 |
| SUBJECT SAMPLE | 0.000 | 14:20 |
| BLANK TEST | 0.000 | 14:21 |
| EXTERNAL STANDARD | 0.079 | 14:21 |
| BLANK TEST | 0.000 | 14:22 |

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Final page for report

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7/10/2014