

## Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

Issued: 04/04/2012

Version: DMCEF2012 R1

Effective: 04/04/2012

Status: Active

Instrument S/N 100343 Analyst Colleen O'Bryant Start Date 4/25/2013Diagnostic 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 03/01/2015ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 03/01/2015iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/2014iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 03/01/2015v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/20131. Simulator S/N DR4162 Date Calibrated 10/09/2012vi. 0.300g/210L Mnf Guth Lot 12050 Exp 03/21/20141. Simulator S/N DR4163 Date Calibrated 10/08/2012

## 5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N DR5978 Date Calibrated 10/8/12ii. Isopropanol - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N SD 1202 Date Calibrated 10/9/12iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N SD1176 Date Calibrated 10/9/12d. 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 4/26/13

## DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100343  
-----

Date: 04/26/2013  
Time: 07:41:23

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

## TEMPERATURES

|                         |        |
|-------------------------|--------|
| Sample Chamber = 49.0°C | PASSED |
| Breath Tube = 48.1°C    | PASSED |

|                       |        |
|-----------------------|--------|
| PUMP INFO             |        |
| Flow Rate = 5.037 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: 100343  
-----

Date: 04/26/2013

Time: 7:54 AM

Temperatures (°C)

Sample Cell: 49.0°C

Breath Tube: 47.3°C

Current Barometer: 29.2 in

Volume (Ltr) 1.56

Settings

Lamp: 1.74 V

Bias: 80 V

Cooler: 1.74 V

Chopper: 538 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.030 V

## CALIBRATION FACTORS

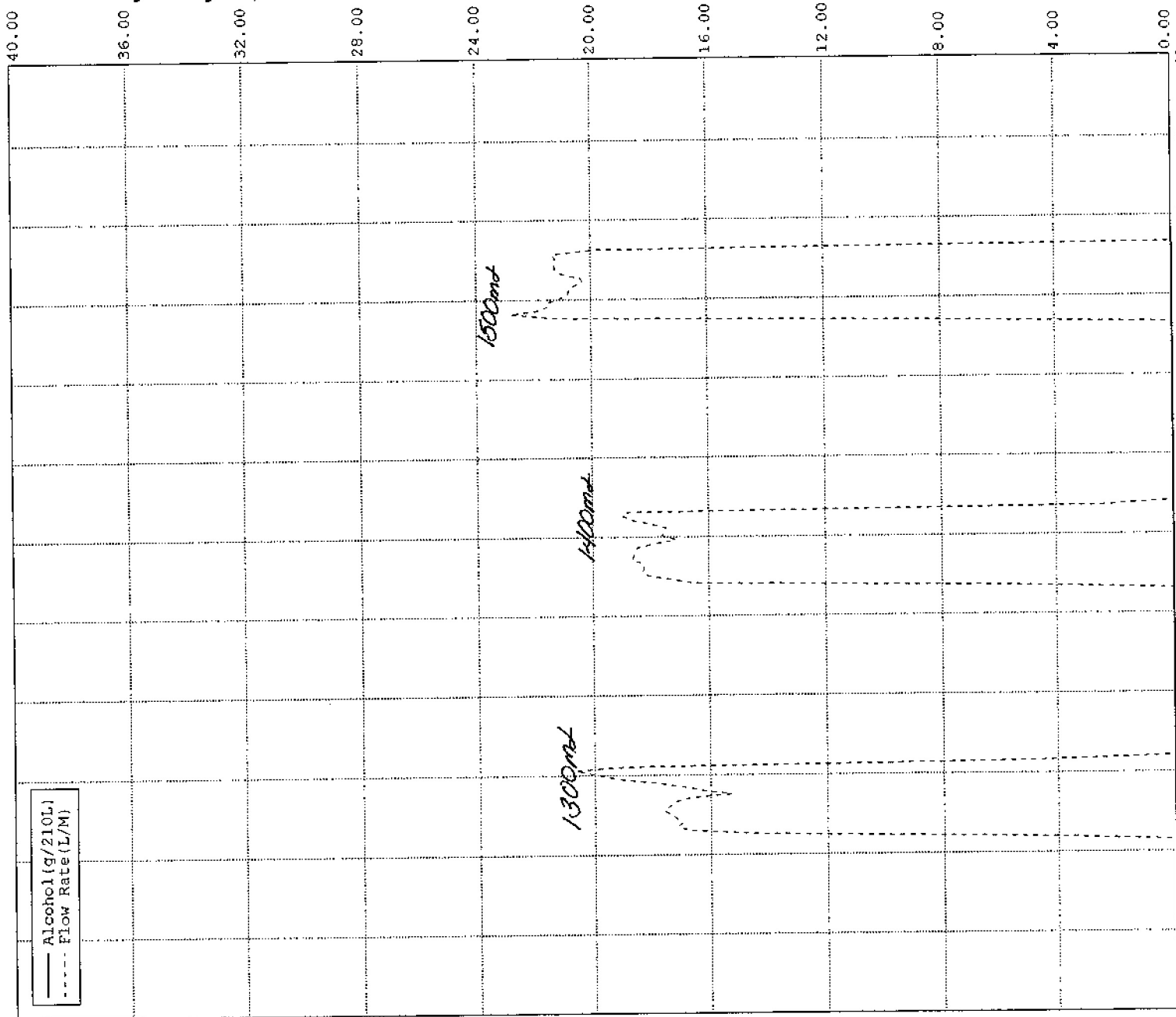
-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100343  
-----

Date: 01/16/2013  
Time: 16:25:17

OPERATOR NAME:  
T T T  
CERTIFICATE #: T

|     |   |          |        |                |
|-----|---|----------|--------|----------------|
| Ca  | = | 0.1010   |        |                |
| CAL | = | 0.992673 | 0.800  | <= CAL < 1.200 |
| b1  | = | 0.0000   | 0.0000 | <= b1 < 0.0040 |
| b2  | = | 0.0051   | 0.0010 | <= b2 < 0.0100 |
| b3  | = | 0.0000   | 0.0000 | <= b3 < 0.0040 |
| Xq  | = | 0.0835   | 0.0500 | <= Xq < 0.2000 |
| a21 | = | 1.158321 | 1.050  | <= a21 < 1.300 |
| a31 | = | 0.505251 | 0.300  | <= a31 < 0.800 |





## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

Date: 04/26/2013  
Time: 08:06:04

## SUBJECT NAME:

TEST TEST  
LICENSE #: VOLUME

## 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 29.22: 0.078  
LOT #: 02012080A1  
EXPIRATION: 03/01/2014

## DIAGNOSTIC CHECK

|                   |        |       |
|-------------------|--------|-------|
| BLANK TEST        | PASSED | 08:09 |
| INTERNAL STANDARD | 0.000  | 08:10 |
| EXTERNAL STANDARD | 0.079  | 08:10 |
| BLANK TEST        | 0.000  | 08:11 |
| SUBJECT SAMPLE    | 0.000  | 08:12 |
| BLANK TEST        | 0.000  | 08:13 |
| EXTERNAL STANDARD | 0.078  | 08:13 |
| BLANK TEST        | 0.000  | 08:14 |

085/19

CAB

## LINEARITY CHECK

Alaska Department of Public Safety  
DATA MASTER dmt: 100343

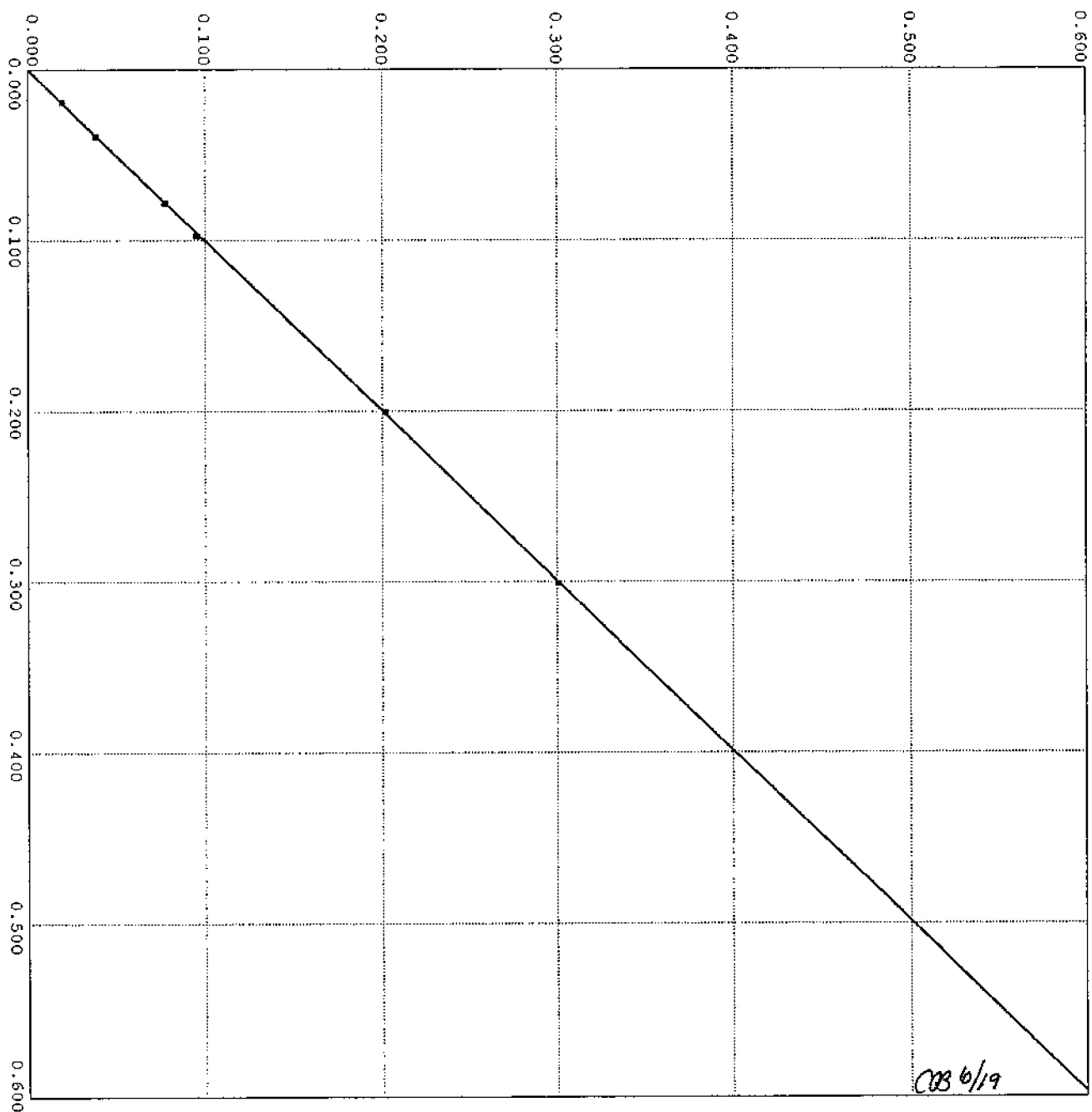
Date: 04/26/2013

Time: 08:28:25

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

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.019  | 0.0203  | 0.0002    |
| 0.039  | 0.0394  | 0.0002    |
| 0.078  | 0.0785  | 0.0003    |
| 0.097  | 0.0964  | 0.0002    |
| 0.200  | 0.2027  | 0.0001    |
| 0.300  | 0.3014  | 0.0004    |

SLOPE = 1.004769  
 $R^2$  = 0.999915



COB

## LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

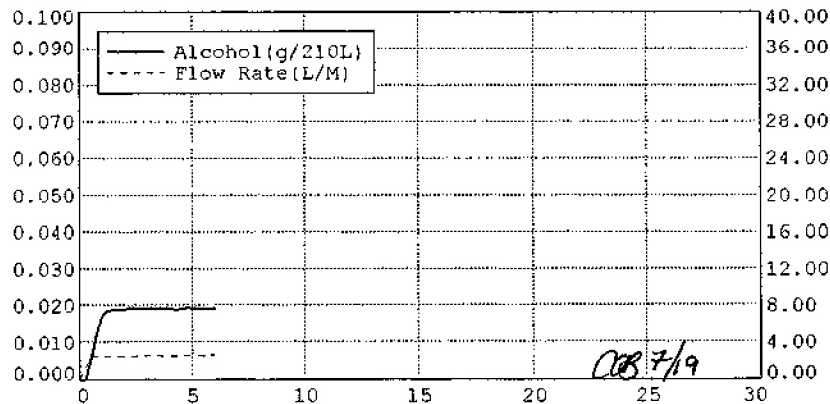
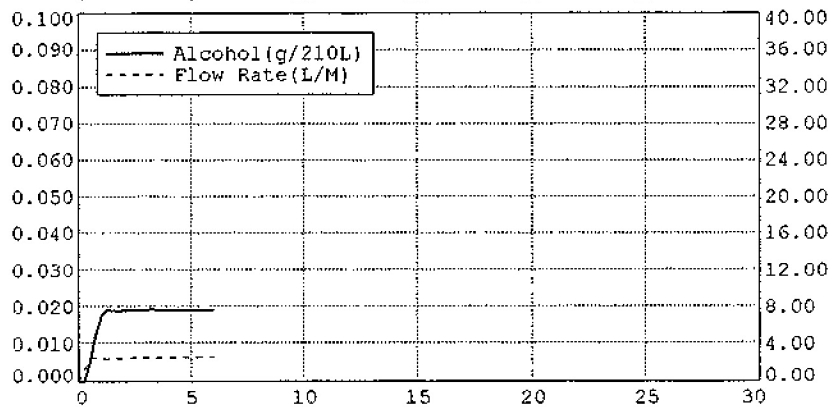
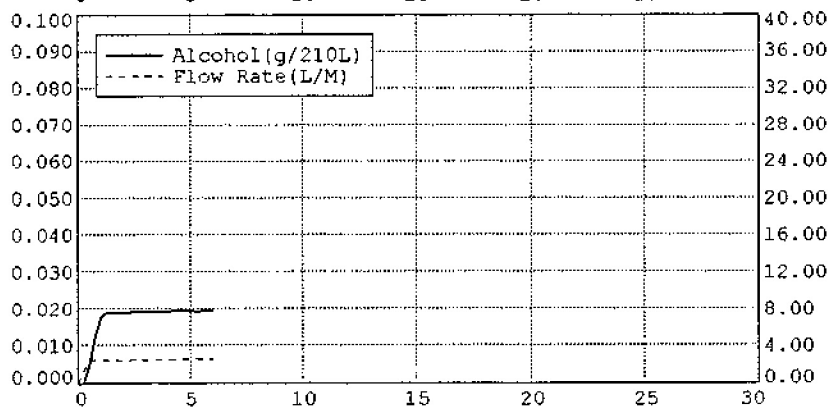
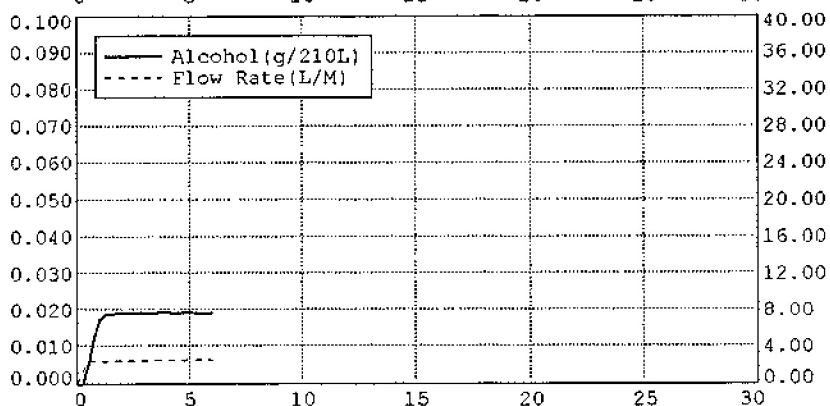
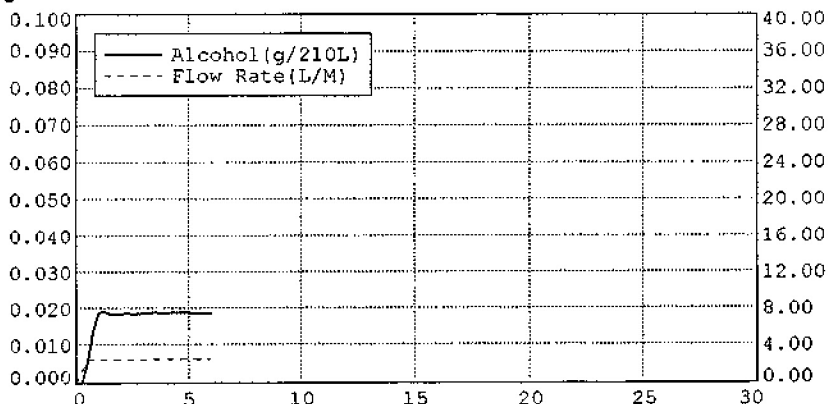
Date: 04/26/2013  
Time: 08:28:26

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.22: 0.019  
LOT #: 00813020A1  
EXPIRATION: 03/01/2015

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 08:39 |
| INTERNAL STANDARD | VERIFIED | 08:39 |
| EXTERNAL STANDARD | 0.020    | 08:40 |
| BLANK TEST        | 0.000    | 08:41 |
| EXTERNAL STANDARD | 0.020    | 08:41 |
| BLANK TEST        | 0.000    | 08:42 |
| EXTERNAL STANDARD | 0.020    | 08:42 |
| BLANK TEST        | 0.000    | 08:43 |
| EXTERNAL STANDARD | 0.020    | 08:43 |
| BLANK TEST        | 0.000    | 08:44 |
| EXTERNAL STANDARD | 0.020    | 08:44 |
| BLANK TEST        | 0.000    | 08:45 |

Average = 0.0203  
Std Dev = 0.0002



## LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

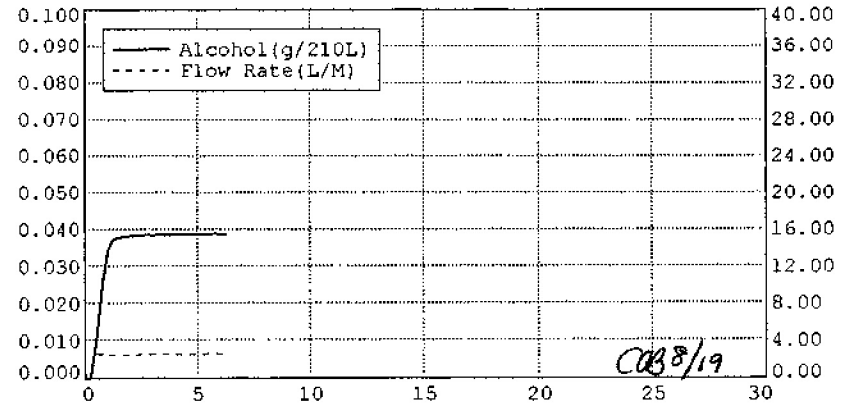
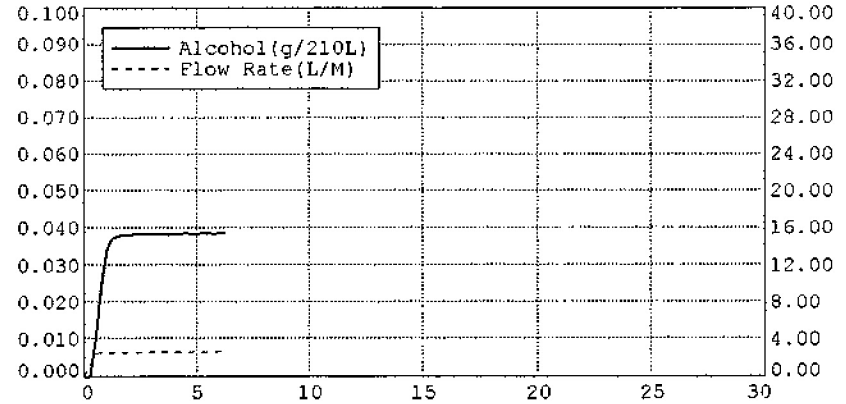
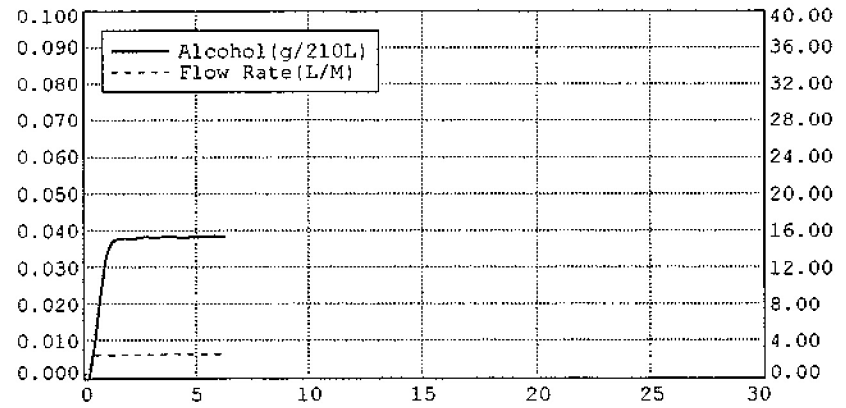
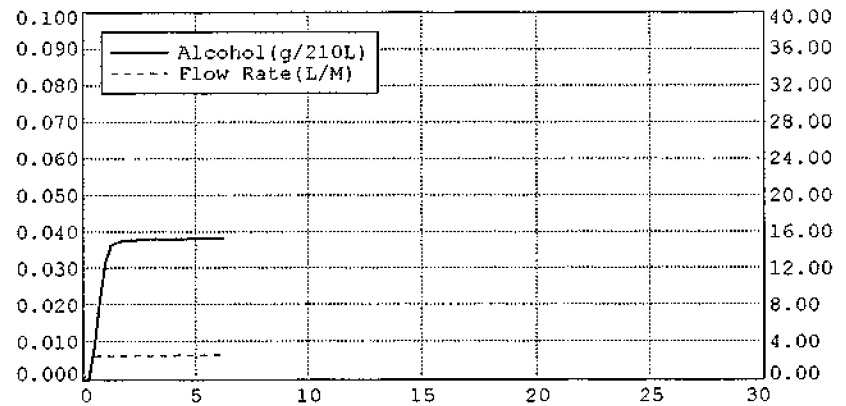
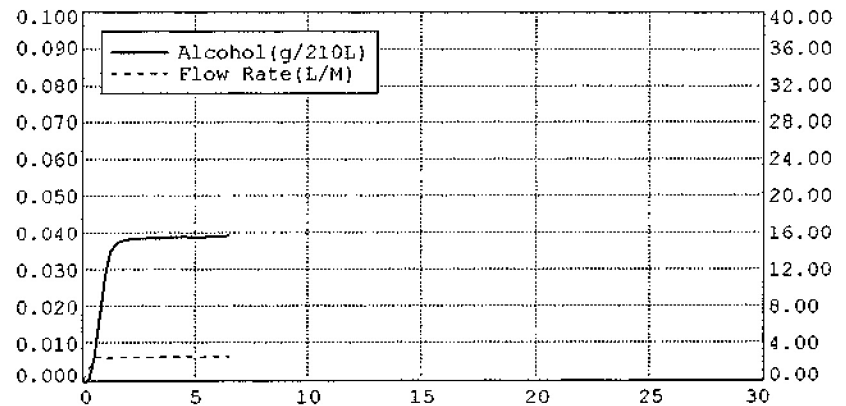
Date: 04/26/2013  
Time: 08:47:11

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
TARGET AT 29.22: 0.039  
LOT #: 00813040A2  
EXPIRATION: 03/01/2015

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 08:49 |
| INTERNAL STANDARD | VERIFIED | 08:49 |
| EXTERNAL STANDARD | 0.039    | 08:49 |
| BLANK TEST        | 0.000    | 08:50 |
| EXTERNAL STANDARD | 0.039    | 08:50 |
| BLANK TEST        | 0.000    | 08:51 |
| EXTERNAL STANDARD | 0.039    | 08:52 |
| BLANK TEST        | 0.000    | 08:52 |
| EXTERNAL STANDARD | 0.039    | 08:53 |
| BLANK TEST        | 0.000    | 08:54 |
| EXTERNAL STANDARD | 0.039    | 08:54 |
| BLANK TEST        | 0.000    | 08:55 |

Average = 0.0394  
Std Dev = 0.0002



## LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

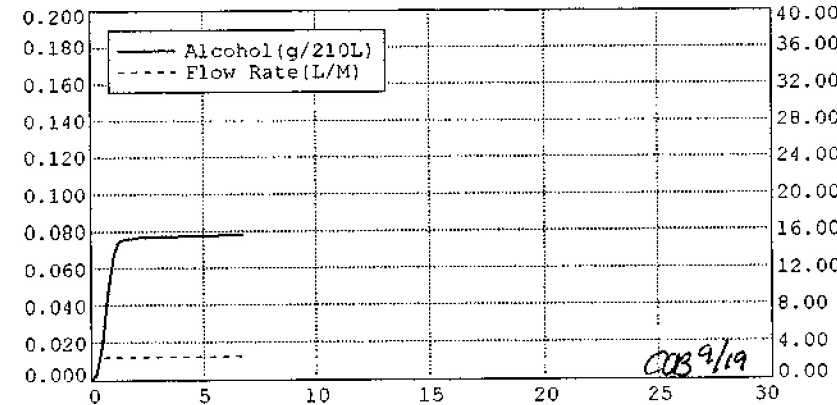
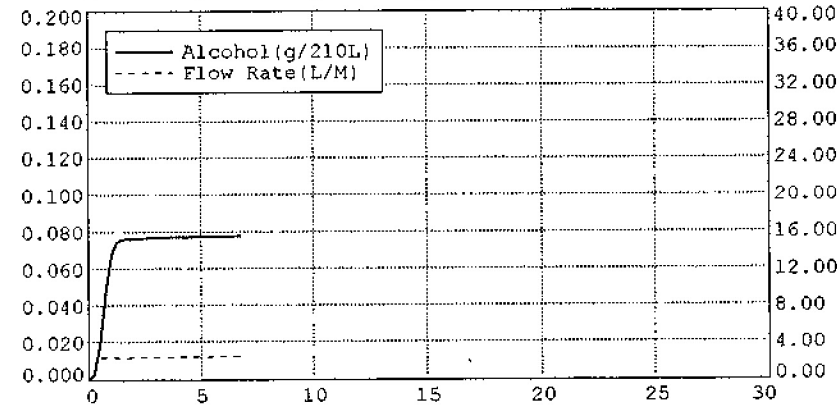
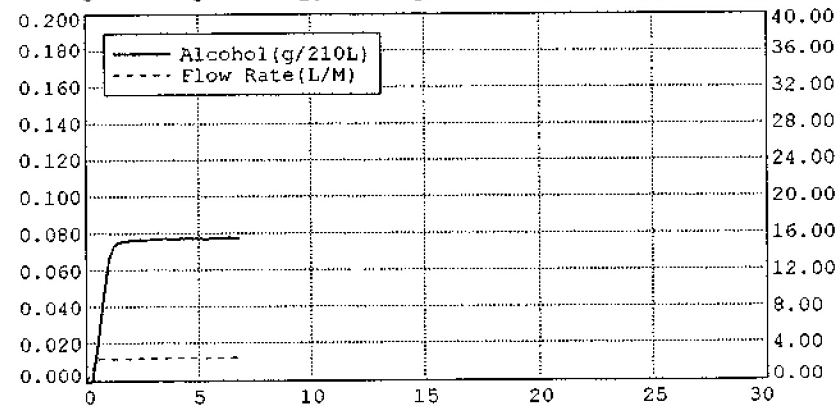
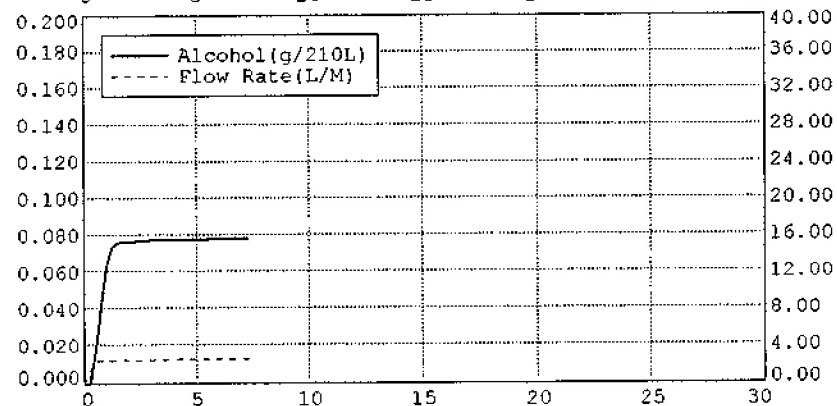
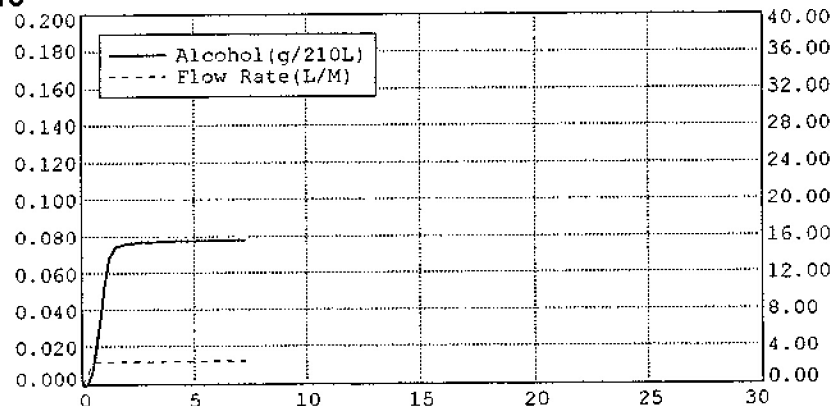
Date: 04/26/2013  
Time: 08:57:48

## EXTERNAL STANDARD INFORMATION

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

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 08:59 |
| INTERNAL STANDARD | VERIFIED | 08:59 |
| EXTERNAL STANDARD | 0.078    | 08:59 |
| BLANK TEST        | 0.000    | 09:00 |
| EXTERNAL STANDARD | 0.078    | 09:00 |
| BLANK TEST        | 0.000    | 09:01 |
| EXTERNAL STANDARD | 0.078    | 09:01 |
| BLANK TEST        | 0.000    | 09:02 |
| EXTERNAL STANDARD | 0.078    | 09:02 |
| BLANK TEST        | 0.000    | 09:03 |
| EXTERNAL STANDARD | 0.078    | 09:03 |
| BLANK TEST        | 0.000    | 09:04 |

Average = 0.0785  
Std Dev = 0.0003





## LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

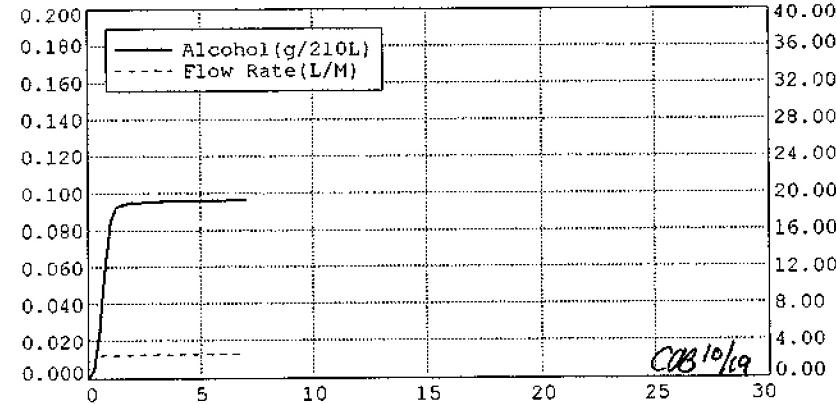
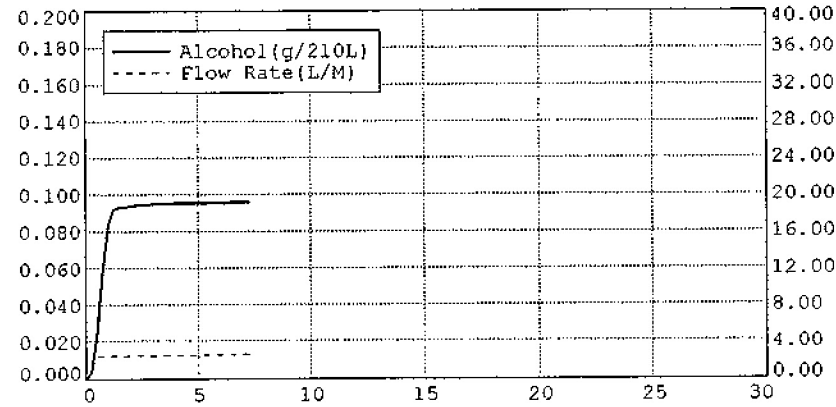
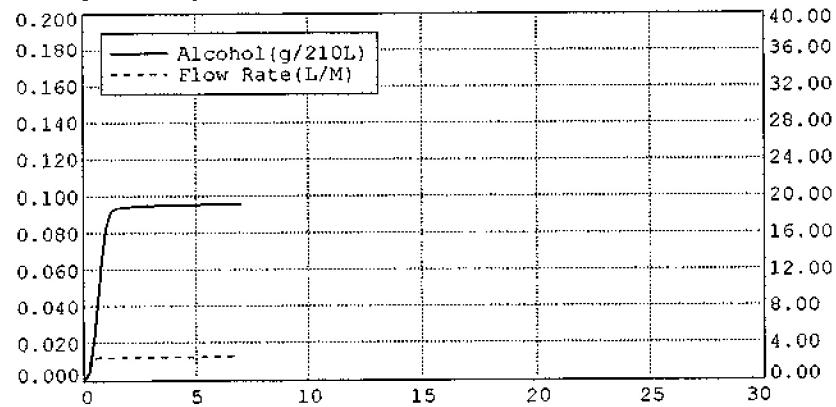
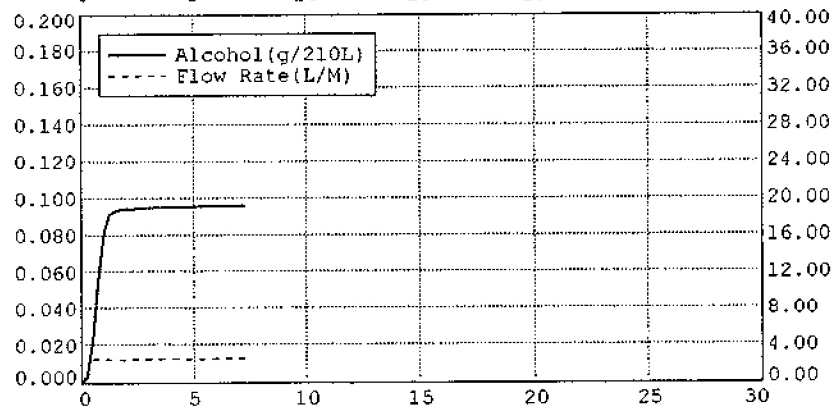
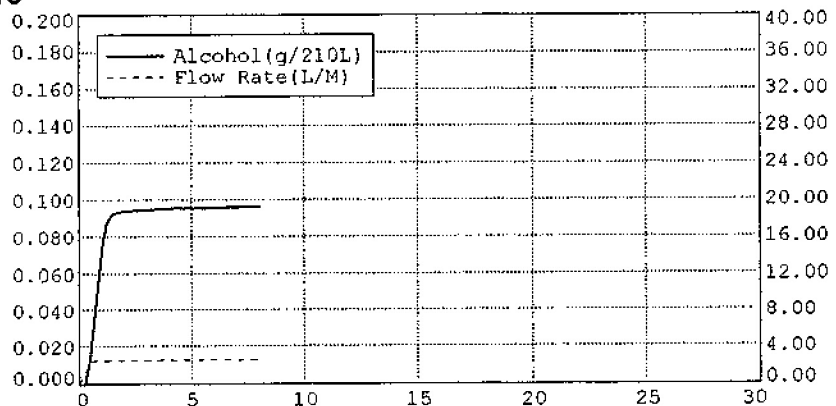
Date: 04/26/2013  
Time: 09:07:14

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
TARGET AT 29.22: 0.097  
LOT #: 00813100A3  
EXPIRATION: 03/01/2015

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:09 |
| INTERNAL STANDARD | VERIFIED | 09:09 |
| EXTERNAL STANDARD | 0.096    | 09:09 |
| BLANK TEST        | 0.000    | 09:10 |
| EXTERNAL STANDARD | 0.096    | 09:10 |
| BLANK TEST        | 0.000    | 09:11 |
| EXTERNAL STANDARD | 0.096    | 09:11 |
| BLANK TEST        | 0.000    | 09:12 |
| EXTERNAL STANDARD | 0.096    | 09:13 |
| BLANK TEST        | 0.000    | 09:13 |
| EXTERNAL STANDARD | 0.096    | 09:14 |
| BLANK TEST        | 0.000    | 09:15 |

Average = 0.0964  
Std Dev = 0.0002



## LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

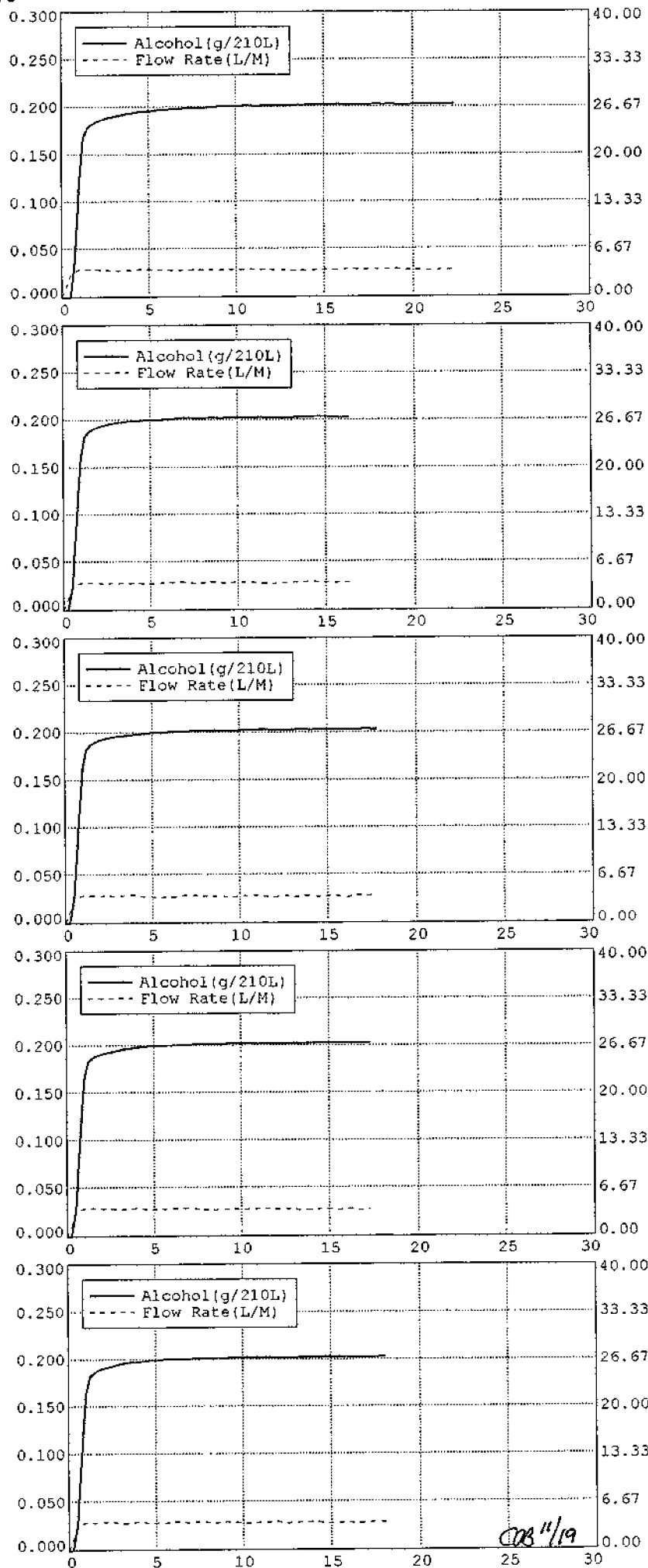
Date: 04/26/2013  
Time: 09:18:01

## EXTERNAL STANDARD INFORMATION

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

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:20 |
| INTERNAL STANDARD | VERIFIED | 09:20 |
| EXTERNAL STANDARD | 0.202    | 09:20 |
| BLANK TEST        | 0.000    | 09:21 |
| EXTERNAL STANDARD | 0.202    | 09:22 |
| BLANK TEST        | 0.000    | 09:23 |
| EXTERNAL STANDARD | 0.202    | 09:23 |
| BLANK TEST        | 0.000    | 09:24 |
| EXTERNAL STANDARD | 0.202    | 09:24 |
| BLANK TEST        | 0.000    | 09:25 |
| EXTERNAL STANDARD | 0.202    | 09:26 |
| BLANK TEST        | 0.000    | 09:27 |

Average = 0.2027  
Std Dev = 0.0001



## LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

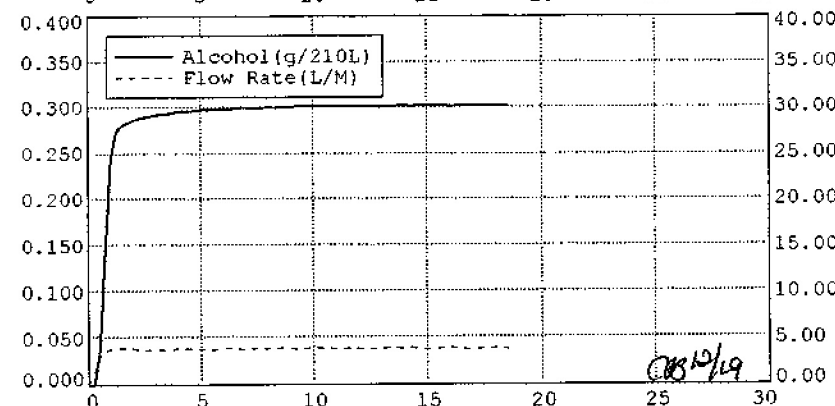
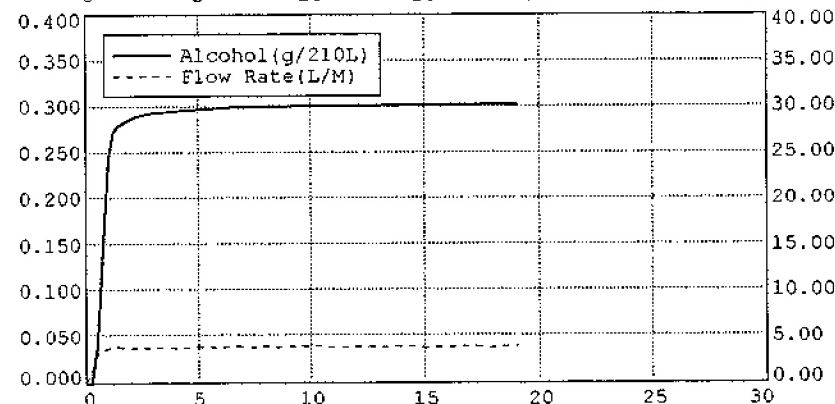
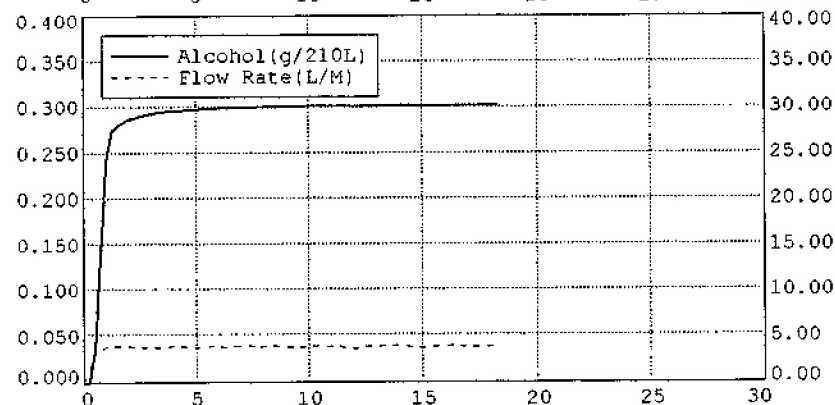
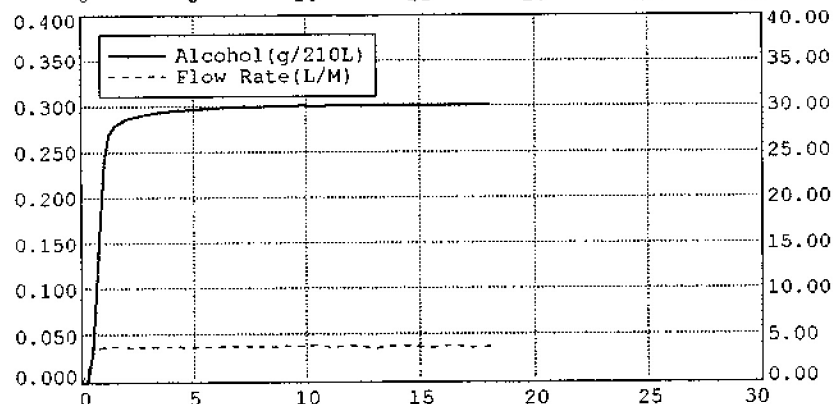
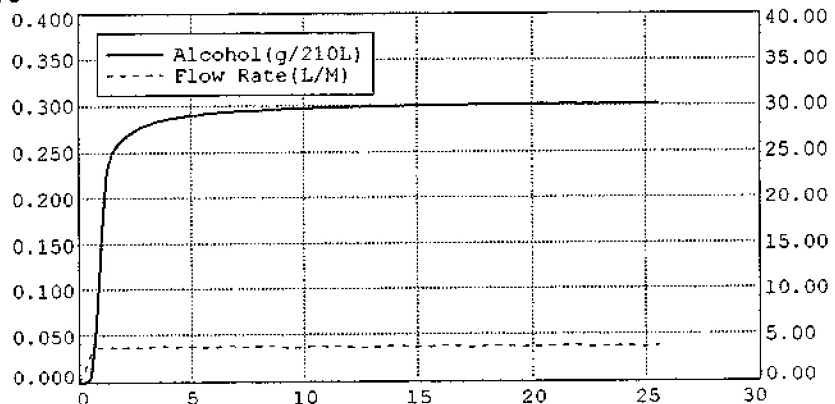
Date: 04/26/2013  
Time: 09:29:17

## EXTERNAL STANDARD INFORMATION

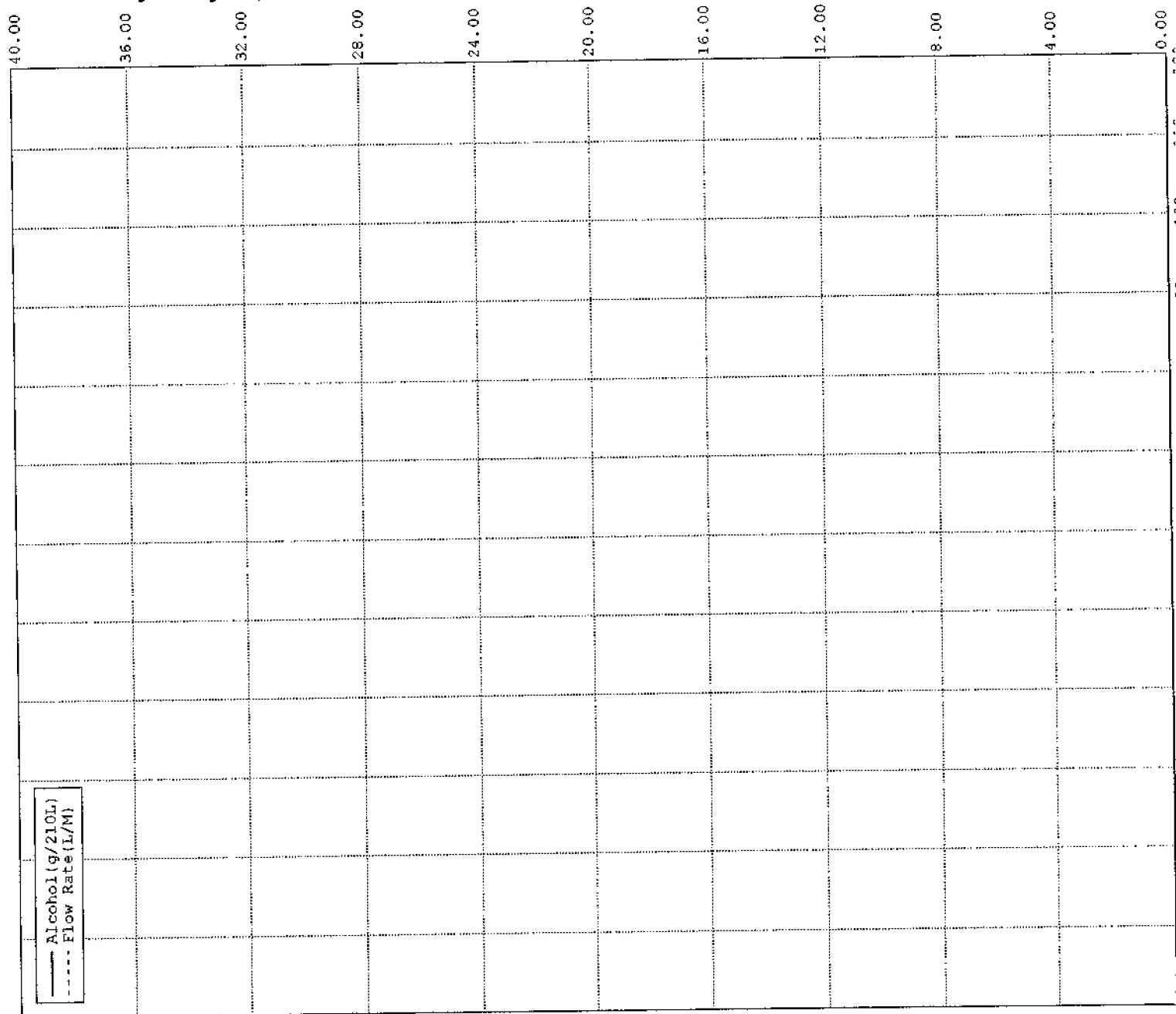
NOMINAL: 0.300  
LOT #: 12050  
EXPIRATION: 03/21/2014

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 09:30 |
| INTERNAL STANDARD | VERIFIED | 09:30 |
| EXTERNAL STANDARD | 0.302    | 09:30 |
| BLANK TEST        | 0.000    | 09:32 |
| EXTERNAL STANDARD | 0.300    | 09:32 |
| BLANK TEST        | 0.000    | 09:33 |
| EXTERNAL STANDARD | 0.301    | 09:33 |
| BLANK TEST        | 0.000    | 09:34 |
| EXTERNAL STANDARD | 0.301    | 09:35 |
| BLANK TEST        | 0.000    | 09:36 |
| EXTERNAL STANDARD | 0.301    | 09:36 |
| BLANK TEST        | 0.000    | 09:37 |

Average = 0.3014  
Std Dev = 0.0004







## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

Date: 04/26/2013  
Time: 10:00:21

## 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 29.20: 0.078

LOT #: 02012080A1

EXPIRATION: 03/01/2014

## DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

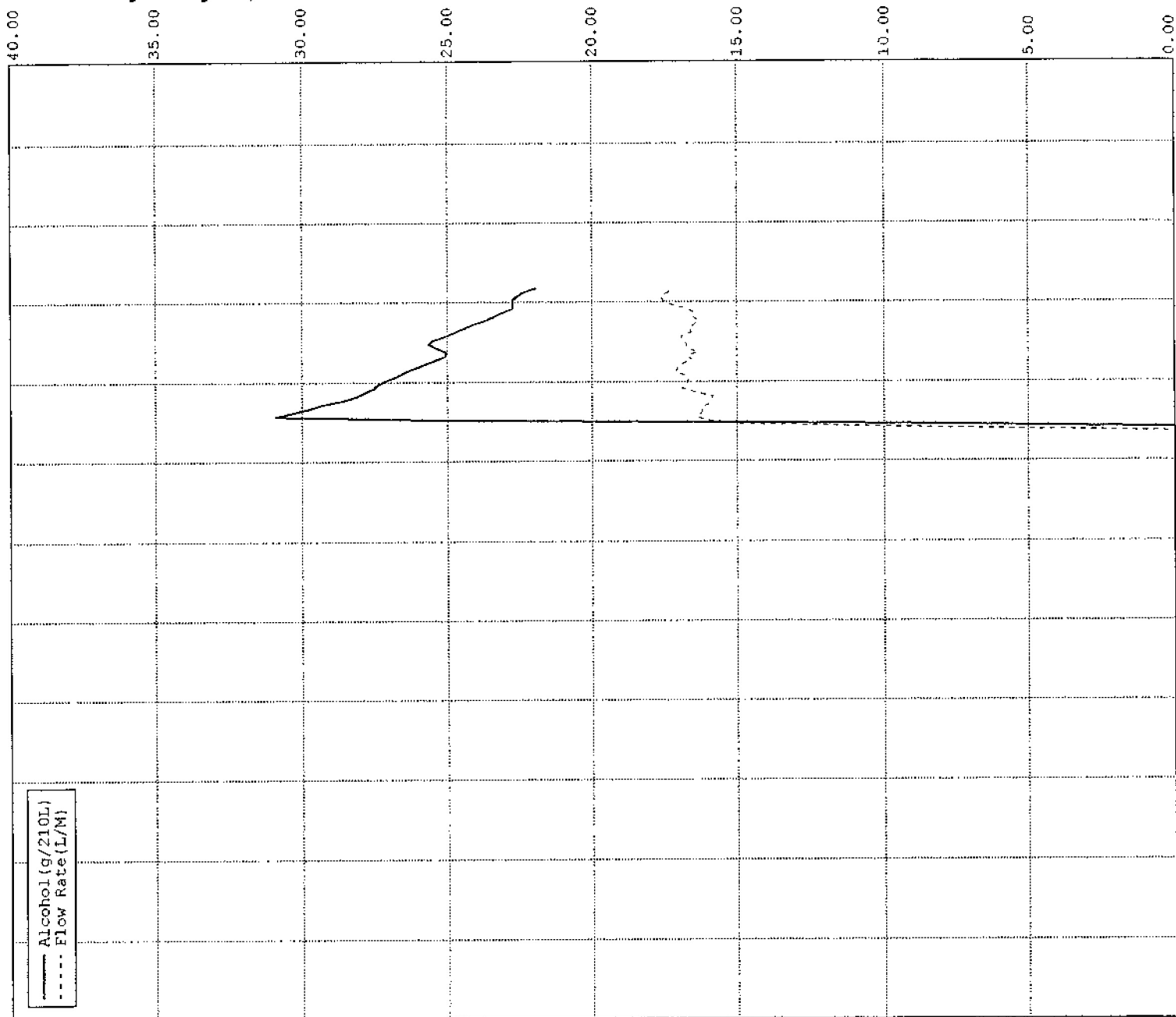
BLANK TEST

SUBJECT SAMPLE

PASSED 10:03  
0.000 10:03  
VERIFIED 10:03  
0.078 10:03  
0.000 10:04  
INCOMPLETE 10:06

CAB 13/19

CAB



## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

Date: 04/26/2013  
Time: 10:17:50

SUBJECT NAME:  
TEST TEST  
LICENSE #: INVALID

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

DEPT/AGENCY:  
AAA1

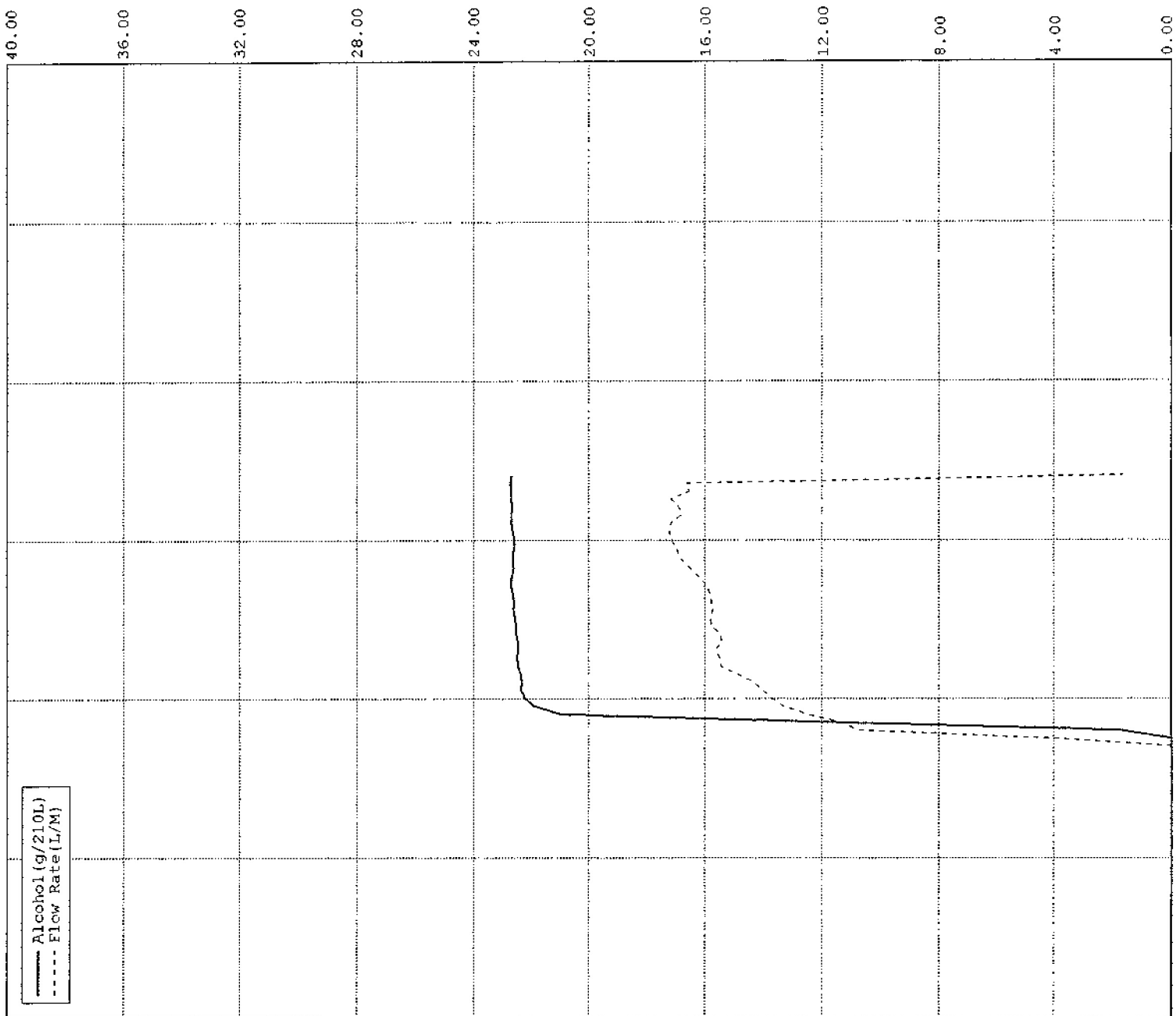
CASE/REPORT: 13-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.20: 0.078  
LOT #: 02012080A1  
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK  
BLANK TEST PASSED 10:19  
INTERNAL STANDARD VERIFIED 10:19  
EXTERNAL STANDARD 0.078 10:20  
BLANK TEST 0.000 10:21  
SUBJECT SAMPLE INVALID 10:21

CB 4/19

CB



## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100343

Date: 04/26/2013  
 Time: 10:27:45

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INT-ACETONE

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

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.20: 0.078  
 LOT #: 02012080A1  
 EXPIRATION: 03/01/2014

|                                    |              |       |
|------------------------------------|--------------|-------|
| DIAGNOSTIC CHECK                   | PASSED       | 10:30 |
| BLANK TEST                         | 0.000        | 10:30 |
| INTERNAL STANDARD                  | VERIFIED     | 10:30 |
| $X_q = 0.084$ (0.83%)              |              |       |
| EXTERNAL STANDARD                  | 0.078        | 10:30 |
| $X[1] = 0.0782$ (-0.0010) (0.0027) |              |       |
| BLANK TEST                         | 0.000        | 10:31 |
| SUBJECT SAMPLE                     | INTERFERENCE | 10:31 |
| $X[1] = 0.1117$ (-0.0179) (0.0024) |              |       |

## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100343

Date: 04/26/2013  
 Time: 10:36:41

## SUBJECT NAME:

TEST TEST  
 LICENSE #: INT-IPA

## 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 29.20: 0.078

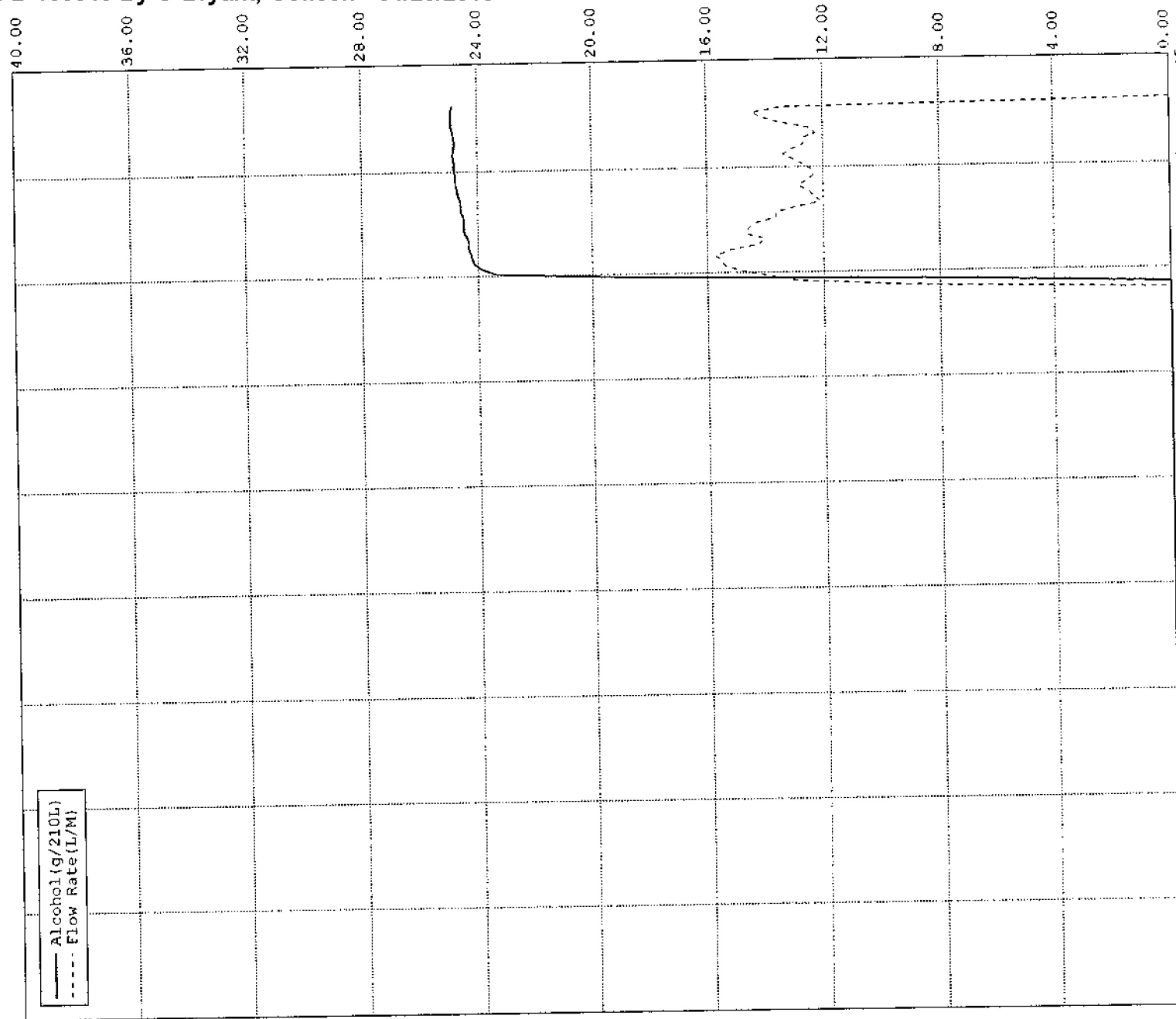
LOT #: 02012080A1

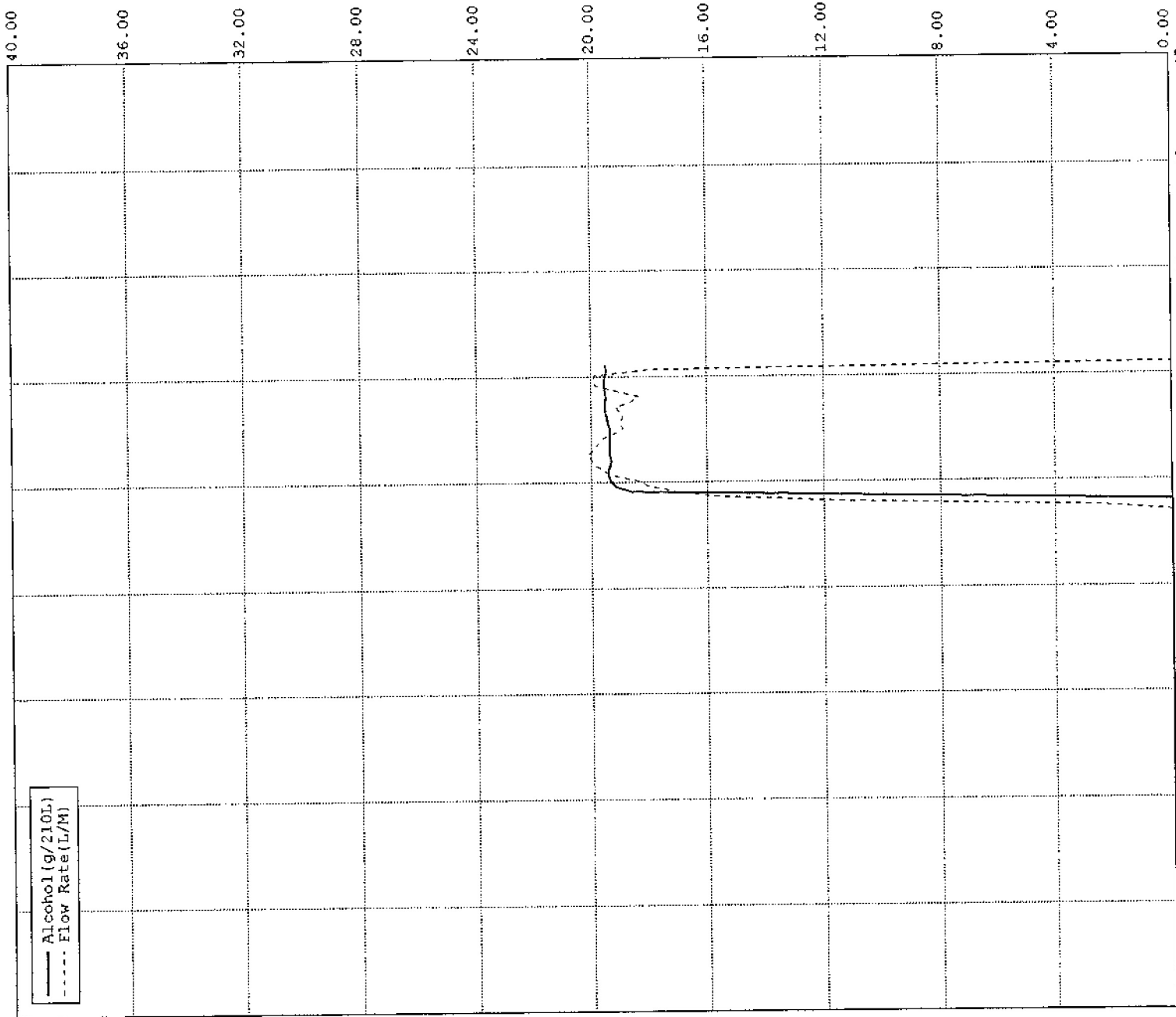
EXPIRATION: 03/01/2014

|                           |                           |          |
|---------------------------|---------------------------|----------|
| DIAGNOSTIC CHECK          | PASSED                    | 10:42    |
| BLANK TEST                | 0.000                     | 10:42    |
| INTERNAL STANDARD         | VERIFIED                  | 10:42    |
| $X_q = 0.084$ (0.94%)     | 0.078                     | 10:42    |
| EXTERNAL STANDARD         | $X[1] = 0.0783$ (-0.0007) | (0.0022) |
| BLANK TEST                | 0.000                     | 10:43    |
| SUBJECT SAMPLE            | INTERFERENCE              | 10:44    |
| $X[1] = 0.1223$ (-0.0228) | (0.0026)                  |          |

COB 10/19

COB





## SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100343

Date: 04/26/2013  
Time: 10:47:35

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-NEGATIVE

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

DEPT/AGENCY:  
AAA1

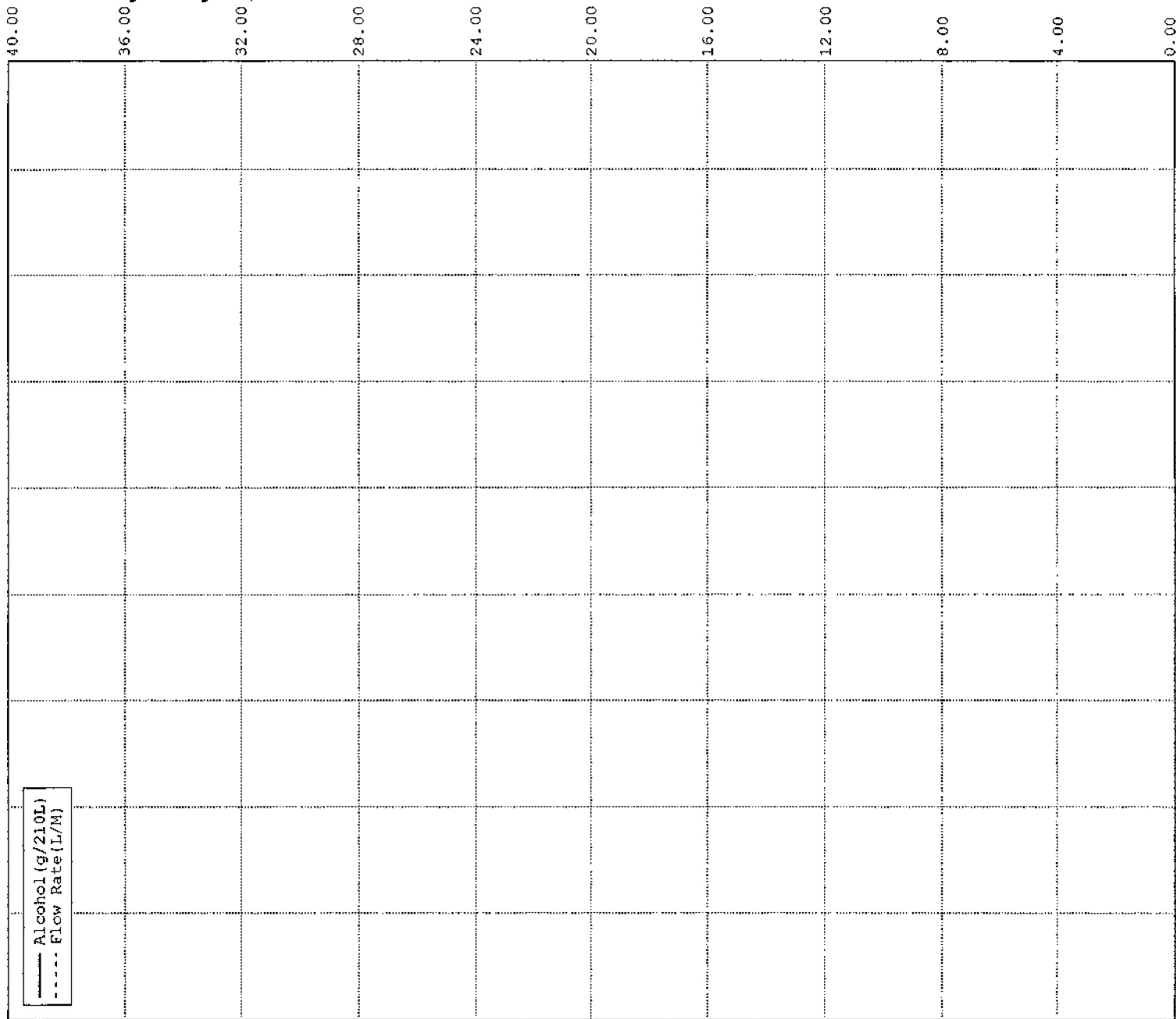
CASE/REPORT: 13-1234  
TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.19: 0.078  
LOT #: 02012080A1  
EXPIRATION: 03/01/2014

| DIAGNOSTIC CHECK           | PASSED   | 10:48 |
|----------------------------|----------|-------|
| BLANK TEST                 | 0.000    | 10:48 |
| INTERNAL STANDARD          | VERIFIED | 10:48 |
| $X_g = 0.084$ (1.04%)      | 0.078    | 10:49 |
| EXTERNAL STANDARD          | (0.0035) | 10:49 |
| $X[1] = 0.0781$ (-0.0004)  | 0.000    | 10:49 |
| BLANK TEST                 | 0.095    | 10:50 |
| SUBJECT SAMPLE (Vol=2.03L) | (0.0021) | 10:51 |
| $X[1] = 0.0957$ (0.0015)   | 0.000    | 10:51 |
| BLANK TEST                 | 0.078    | 10:51 |
| EXTERNAL STANDARD          | (0.0028) | 10:52 |
| $X[1] = 0.0781$ (-0.0012)  | 0.000    | 10:52 |
| BLANK TEST                 |          |       |

COB  
04/17/19



## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100343

Date: 04/26/2013  
Time: 10:55:17

SUBJECT NAME:  
TEST TEST  
LICENSE #: RFI

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

DEPT/AGENCY:  
AAA1

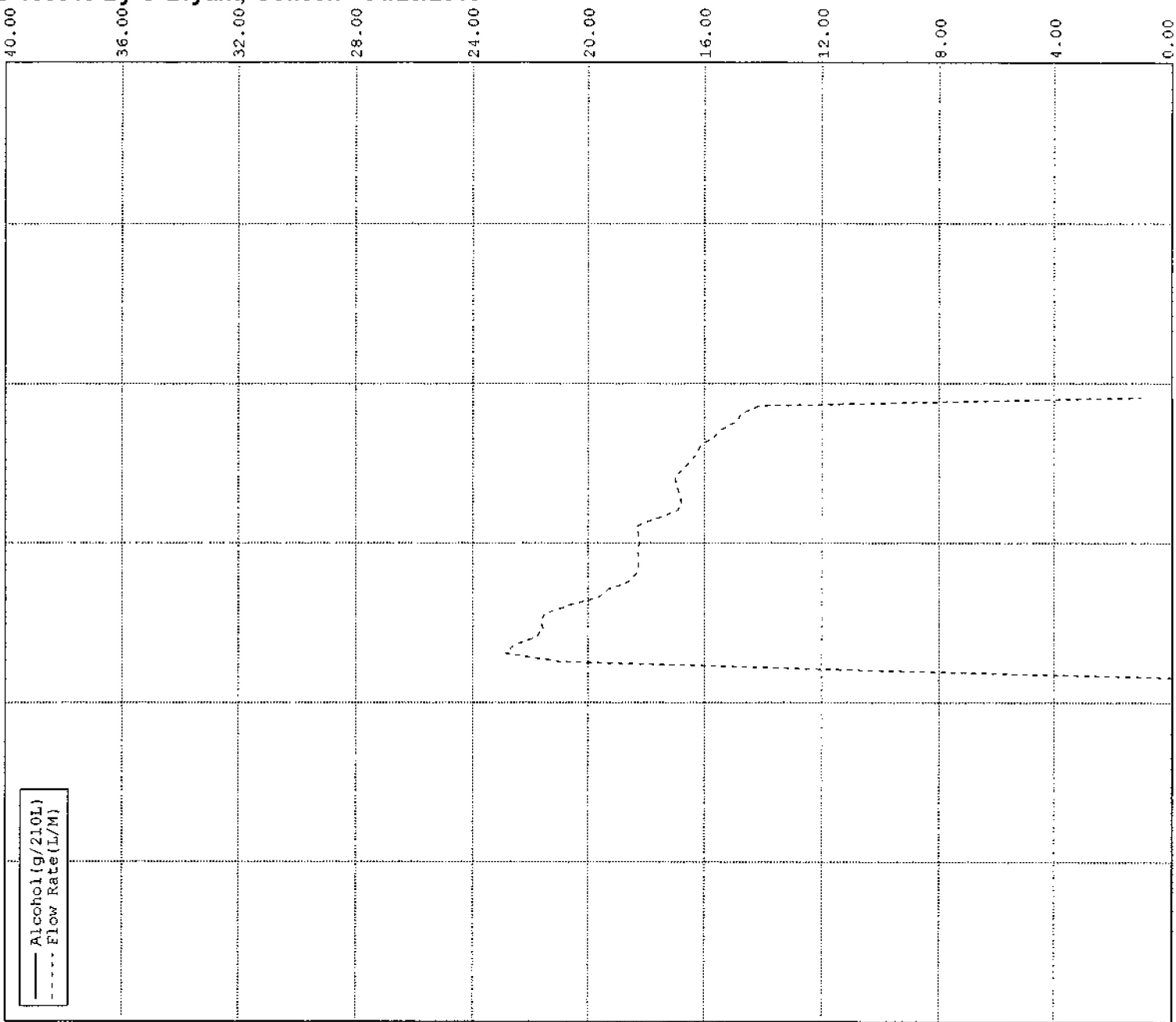
CASE/REPORT: 13-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.18: 0.078  
LOT #: 02012080A1  
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 10:57  
BLANK TEST 0.000 10:57  
INTERNAL STANDARD VERIFIED 10:58  
EXTERNAL STANDARD 0.078 10:58  
BLANK TEST 0.000 10:59

RFI DETECTED

CBS 18/19



## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100343

Date: 04/26/2013  
 Time: 11:14:37

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: NON DRINKING

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 29.18: 0.078  
 LOT #: 02012080A1  
 EXPIRATION: 03/01/2014

| DIAGNOSTIC CHECK  | PASSED   | 11:15 |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:15 |
| INTERNAL STANDARD | VERIFIED | 11:16 |
| EXTERNAL STANDARD | 0.078    | 11:16 |
| BLANK TEST        | 0.000    | 11:17 |
| SUBJECT SAMPLE    | 0.000    | 11:17 |
| BLANK TEST        | 0.000    | 11:18 |
| EXTERNAL STANDARD | 0.079    | 11:18 |
| BLANK TEST        | 0.000    | 11:19 |

COB

COB 19/19