

## Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

Issued: 04/04/2012

Version: DMCEF2012 R1

Effective: 04/04/2012

Status: Active

Instrument S/N 100376 Analyst Brandi Barnett Start Date 4/5/12Diagnostic 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 15210020A1 Exp 07/01/12ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/13iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/13iv. 0.100g/210L Mnf ILMO Lot 0761100A3 Exp 03/01/13v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/131. Simulator S/N SD1176 Date Calibrated 8/17/2011vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/20131. Simulator S/N DR4176 Date Calibrated 02/21/2012

## 5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 5/29/12 <sup>10/11/13 BMB</sup>1. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 5/24/12 <sup>11/17/12 BMB</sup>1. Simulator S/N DR6267 Date Calibrated 01/10/12iii. Negative Control - Mnf Guth Lot 01250 Level 0.100 Exp 12/6/131. Simulator S/N SD1202 Date Calibrated 8/17/2011d. 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 4/6/12

Page 1 of 1

All printed copies are uncontrolled.

Approved by Forensic Alcohol Supervisor

## DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100376  
-----

Date: 04/05/2012  
Time: 10:51:38

## VERSIONS

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

## TEMPERATURES

|                         |        |
|-------------------------|--------|
| Sample Chamber = 48.8°C | PASSED |
| Breath Tube = 47.0°C    | PASSED |

## PUMP INFO

|                       |        |
|-----------------------|--------|
| Flow Rate = 4.968 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 |
|-------------------|--------|

2/19 BMB

## Technician Screen

-----  
DATAMASTER dmt: 100376  
-----Date: 04/05/2012  
Time: 11:00 AM

## Temperatures (°C)

Sample Cell: 49.5°C  
Breath Tube: 45.5°CCurrent Barometer 29.8 in  
Volume (Ltr) 1.57

## Settings

Lamp: 1.62 V  
Bias: 80 V  
Cooler: 1.61 V  
Chopper: 542 Hz

## Voltages (V)

Flow: 1.06 V  
Detector: -0.040 V

3/19 BMB

## CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100376  
-----

Date: 03/02/2011  
Time: 16:04:33

Ca = 0.1000  
CAL = 0.982831    0.800 <= CAL < 1.200  
b1 = 0.0000    0.0000 <= b1 < 0.0040  
b2 = 0.0041    0.0010 <= b2 < 0.0100  
b3 = 0.0000    0.0000 <= b3 < 0.0040  
Xq = 0.0775    0.0500 <= Xq < 0.2000  
a21 = 1.184234    1.050 <= a21 < 1.300  
a31 = 0.361160    0.300 <= a31 < 0.800

4/1/2012



## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100376

Date: 04/05/2012

Time: 11:03:11

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

BRANDI BARNETT

OPERATOR'S #: 7038

DEPT/AGENCY:

MINIMUM VOLUME

CASE/REPORT: XXXX

TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.85: 0.079

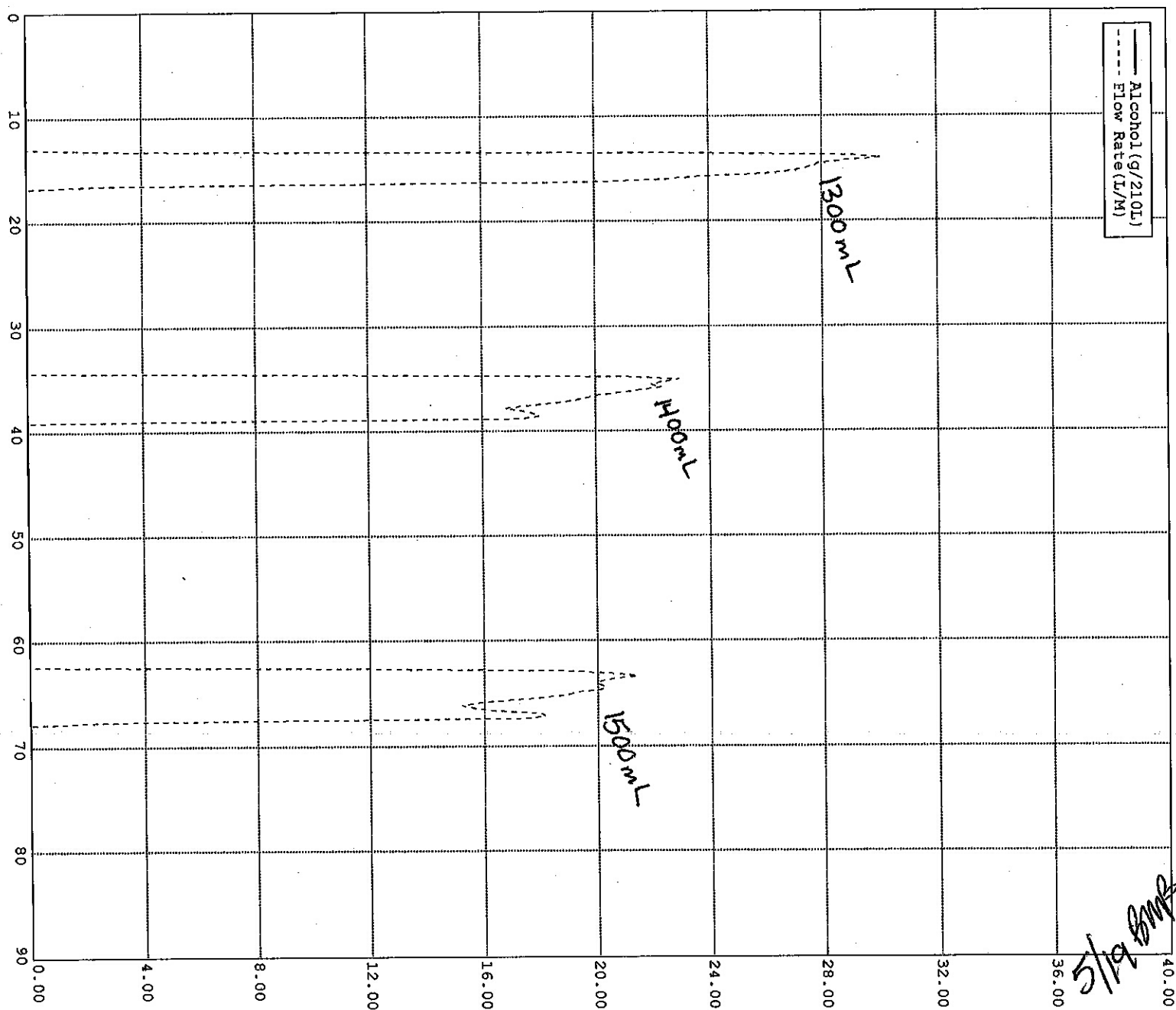
LOF #: 07511080A1

EXPIRATION: 03/01/2013

## DIAGNOSTIC CHECK

|                   | PASSED   | 11:04 |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:04 |
| INTERNAL STANDARD | VERIFIED | 11:04 |
| EXTERNAL STANDARD | 0.079    | 11:05 |
| BLANK TEST        | 0.000    | 11:06 |
| SUBJECT SAMPLE    | 0.000    | 11:07 |
| BLANK TEST        | 0.000    | 11:08 |
| EXTERNAL STANDARD | 0.080    | 11:08 |
| BLANK TEST        | 0.000    | 11:09 |

BSMB



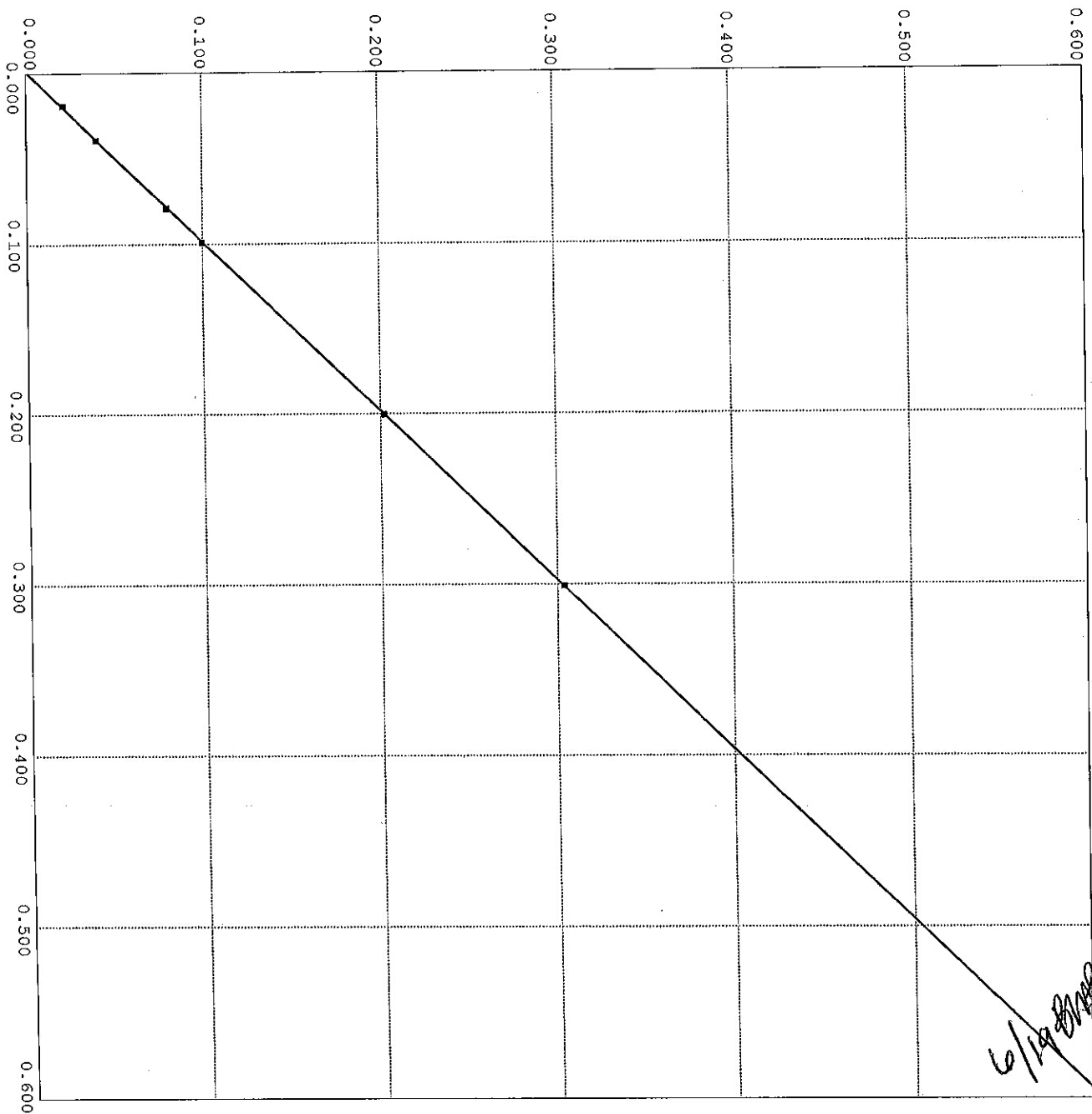
## LINEARITY CHECK

Alaska Department of Public Safety  
DATAMASTER dmt: 100376Date: 04/05/2012  
Time: 11:15:28SUPERVISOR NAME:  
BRANDI BARNETT  
OPERATOR'S #: 7038

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.019  | 0.0217  | 0.0002    |
| 0.039  | 0.0407  | 0.0001    |
| 0.079  | 0.0802  | 0.0003    |
| 0.099  | 0.1006  | 0.0004    |
| 0.200  | 0.2030  | 0.0009    |
| 0.300  | 0.3044  | 0.0003    |

SLOPE = 1.008519  
 $R^2$  = 0.999953

BMB



## LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100376

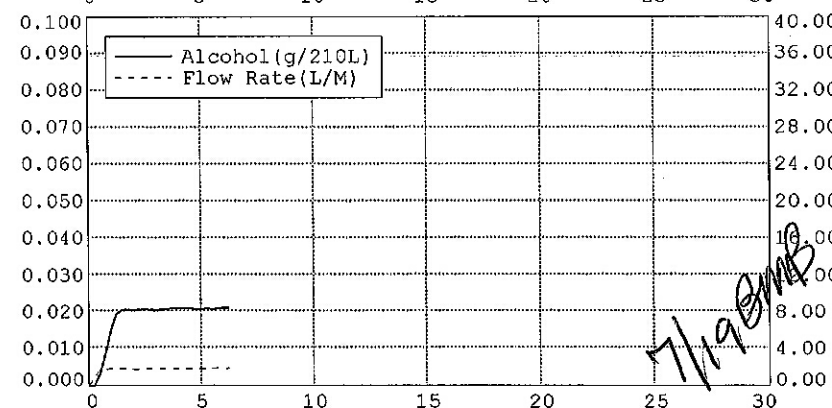
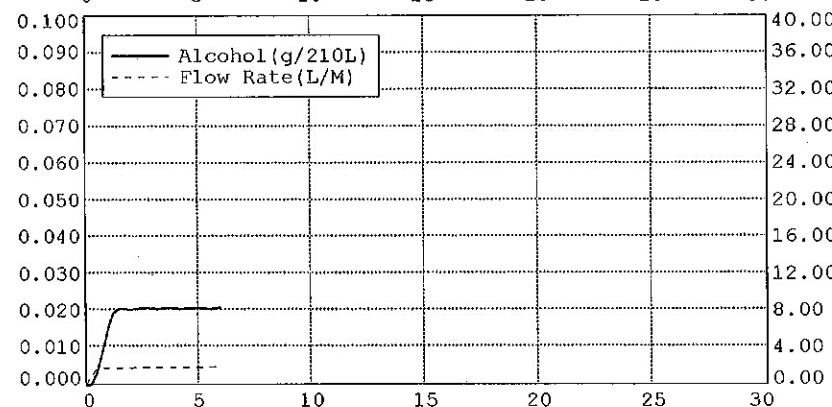
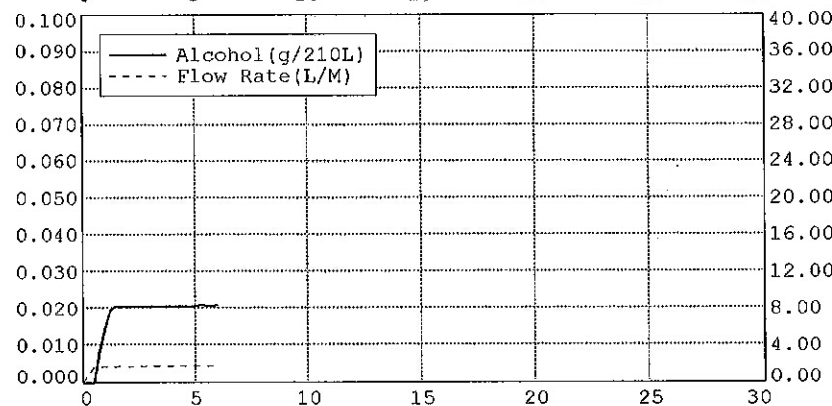
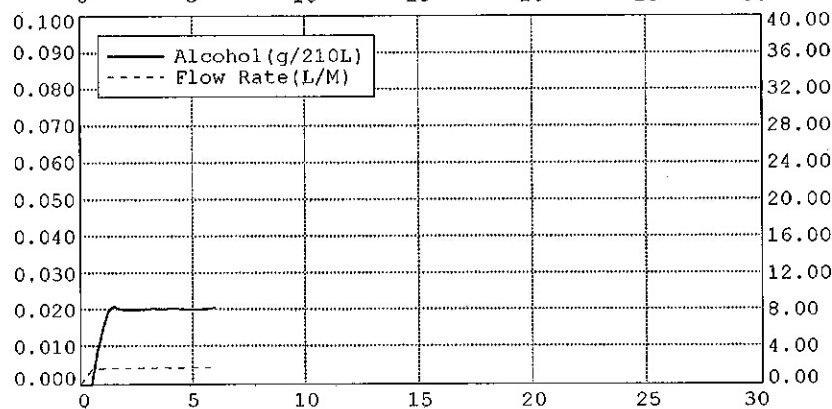
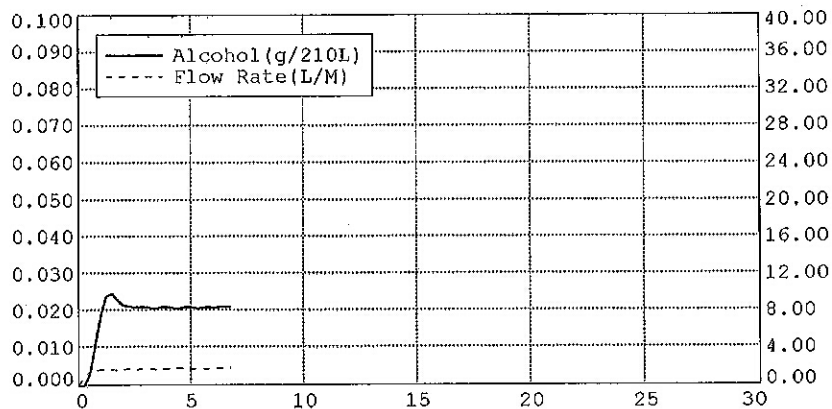
Date: 04/05/2012  
Time: 11:15:30

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.85: 0.019  
LOT #: 15210020A1  
EXPIRATION: 07/01/2012

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:16 |
| INTERNAL STANDARD | VERIFIED | 11:16 |
| EXTERNAL STANDARD | 0.021    | 11:16 |
| BLANK TEST        | 0.000    | 11:17 |
| EXTERNAL STANDARD | 0.021    | 11:18 |
| BLANK TEST        | 0.000    | 11:18 |
| EXTERNAL STANDARD | 0.021    | 11:19 |
| BLANK TEST        | 0.000    | 11:20 |
| EXTERNAL STANDARD | 0.021    | 11:20 |
| BLANK TEST        | 0.000    | 11:21 |
| EXTERNAL STANDARD | 0.021    | 11:21 |
| BLANK TEST        | 0.000    | 11:22 |

Average = 0.0217  
Std Dev = 0.0002



## LINEARITY CHECK: Control Test 2

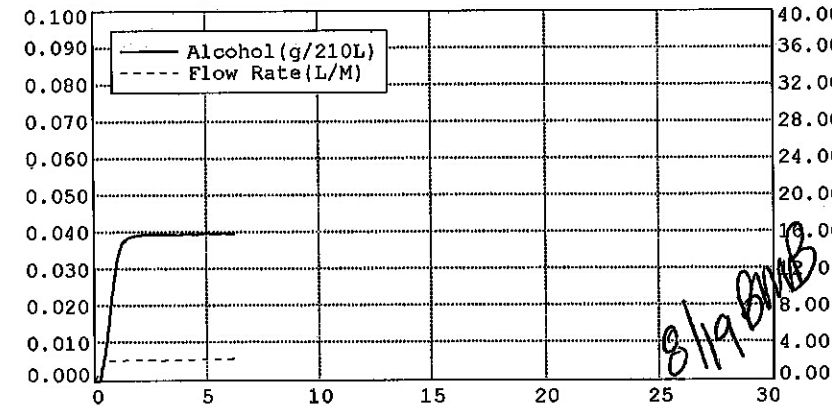
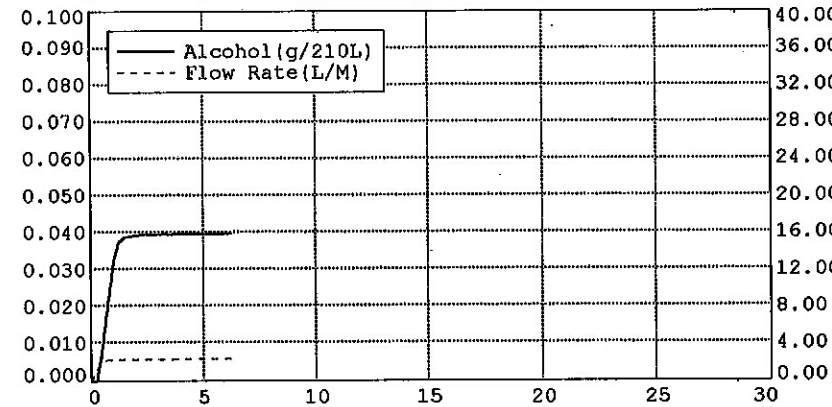
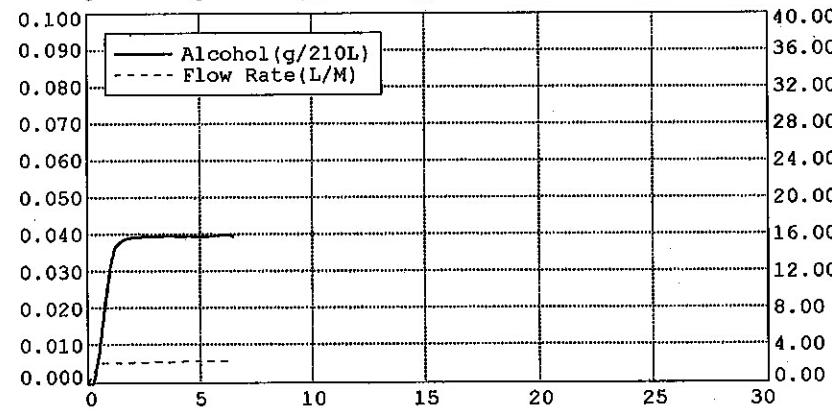
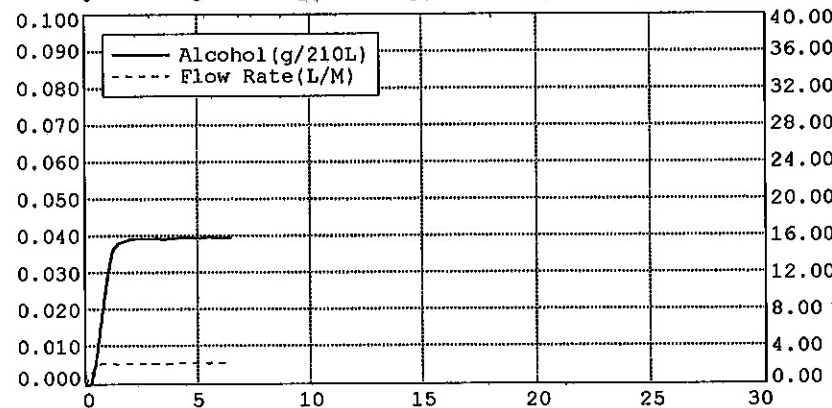
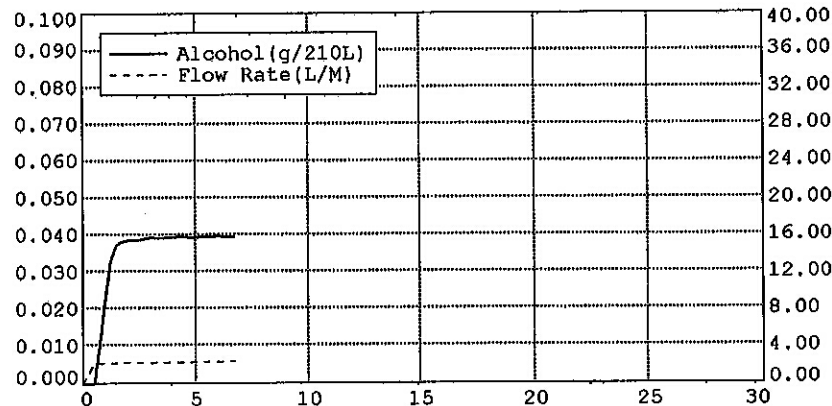
Alaska Department of Public Safety  
DATAMASTER dmt: 100376

Date: 04/05/2012  
Time: 12:24:18

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.040  
TARGET AT 29.89: 0.039  
LOT #: 07611040A4  
EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 12:25 |
| INTERNAL STANDARD | VERIFIED | 12:26 |
| EXTERNAL STANDARD | 0.040    | 12:26 |
| BLANK TEST        | 0.000    | 12:27 |
| EXTERNAL STANDARD | 0.040    | 12:27 |
| BLANK TEST        | 0.000    | 12:28 |
| EXTERNAL STANDARD | 0.040    | 12:28 |
| BLANK TEST        | 0.000    | 12:29 |
| EXTERNAL STANDARD | 0.040    | 12:29 |
| BLANK TEST        | 0.000    | 12:30 |
| EXTERNAL STANDARD | 0.040    | 12:30 |
| BLANK TEST        | 0.000    | 12:31 |

Average = 0.0407  
Std Dev = 0.0001





## LINEARITY CHECK: Control Test 3

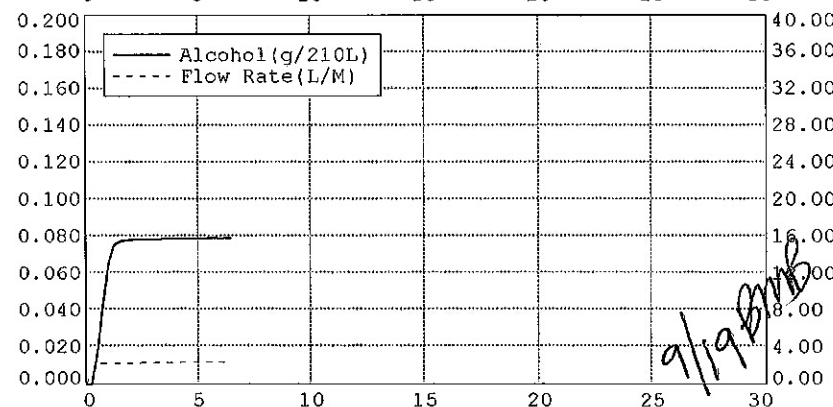
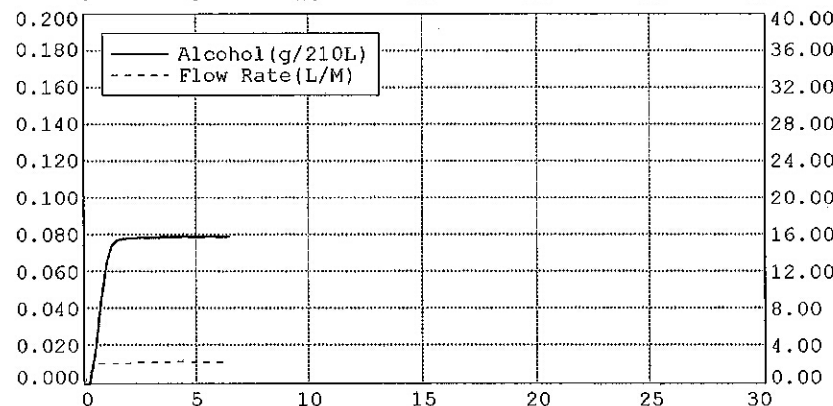
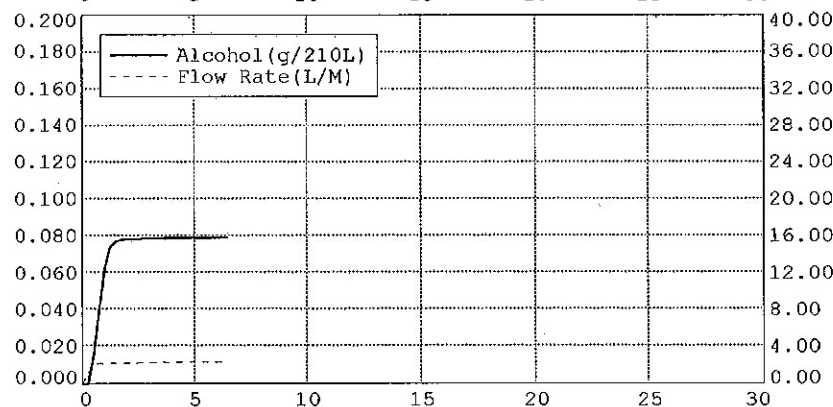
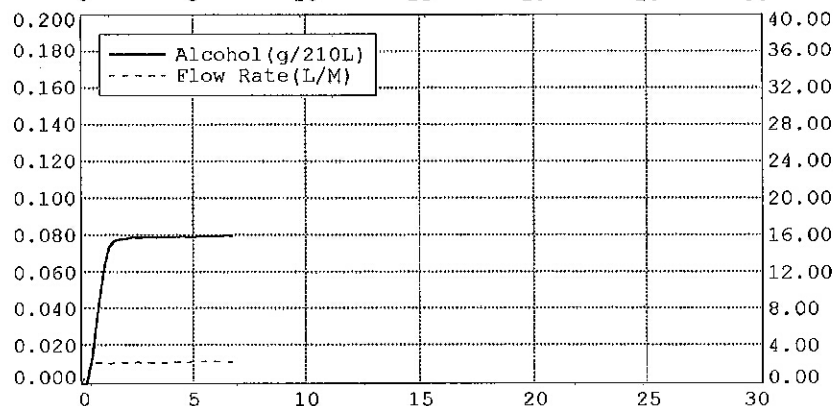
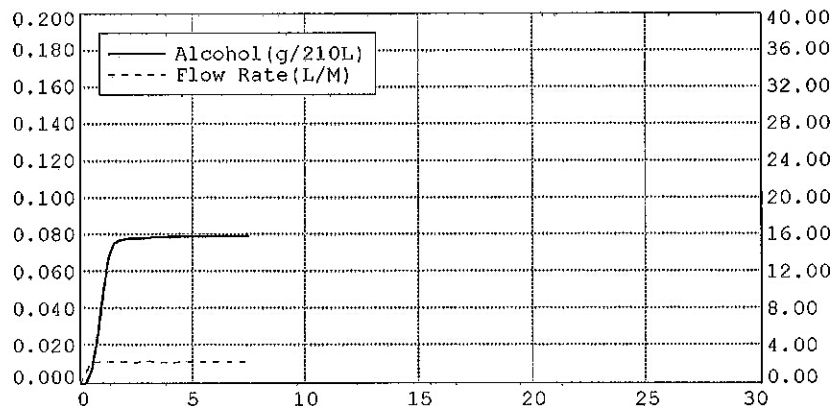
Alaska Department of Public Safety  
DATAMASTER dnt: 100376

Date: 04/05/2012  
Time: 12:34:16

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.89; 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 12:35 |
| INTERNAL STANDARD | VERIFIED | 12:36 |
| EXTERNAL STANDARD | 0.080    | 12:36 |
| BLANK TEST        | 0.000    | 12:37 |
| EXTERNAL STANDARD | 0.080    | 12:37 |
| BLANK TEST        | 0.000    | 12:38 |
| EXTERNAL STANDARD | 0.080    | 12:38 |
| BLANK TEST        | 0.000    | 12:39 |
| EXTERNAL STANDARD | 0.080    | 12:39 |
| BLANK TEST        | 0.000    | 12:40 |
| EXTERNAL STANDARD | 0.079    | 12:40 |
| BLANK TEST        | 0.000    | 12:41 |

Average = 0.0802  
Std Dev = 0.0003



## LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
DATAMASTER dmt: 100376

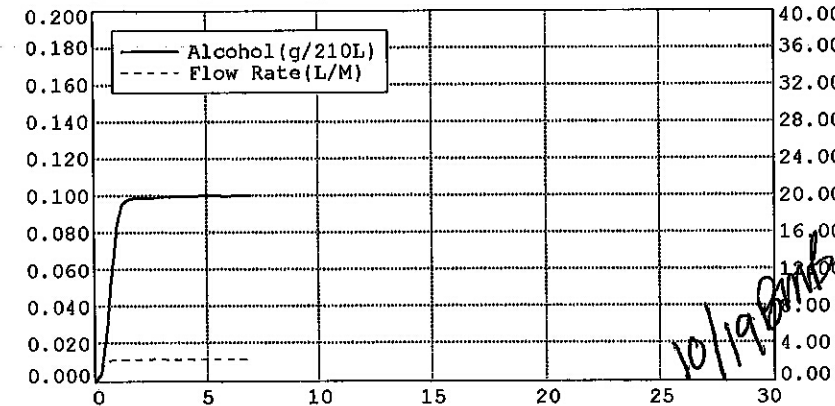
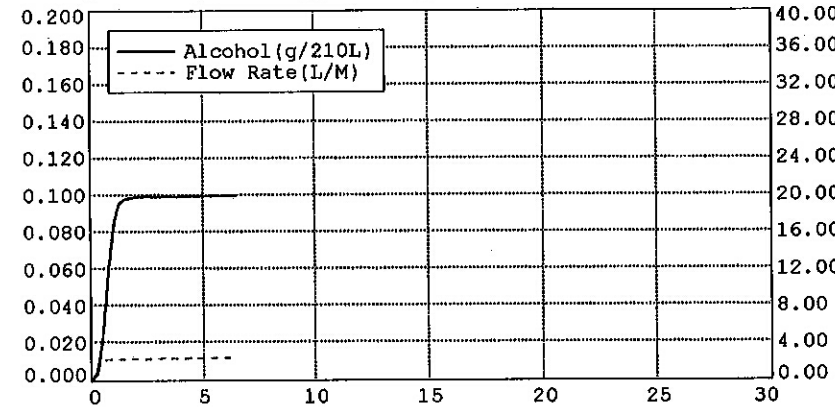
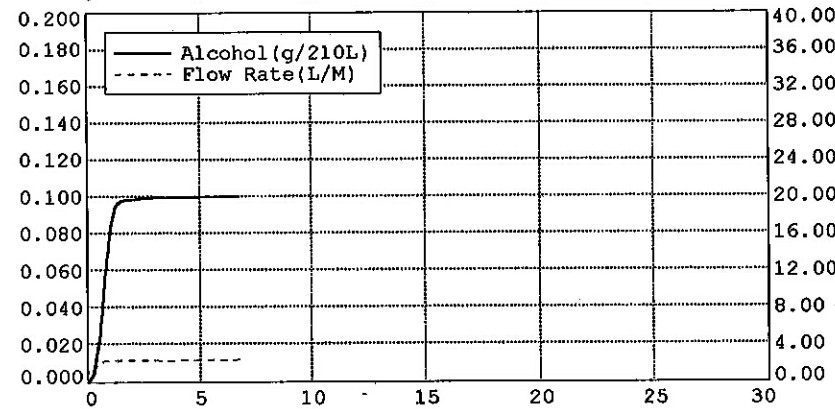
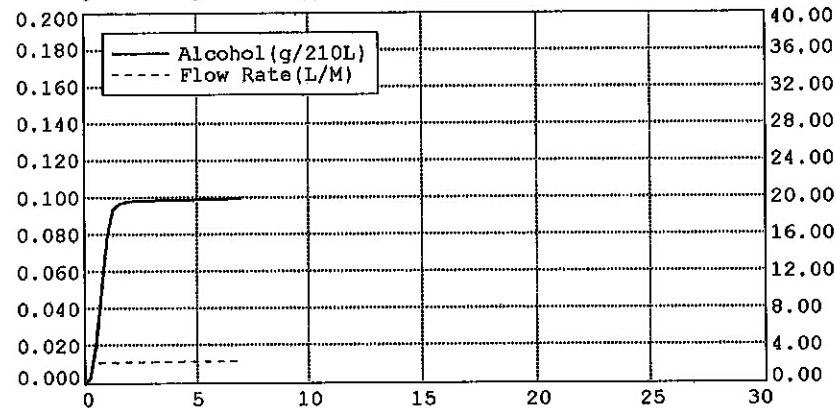
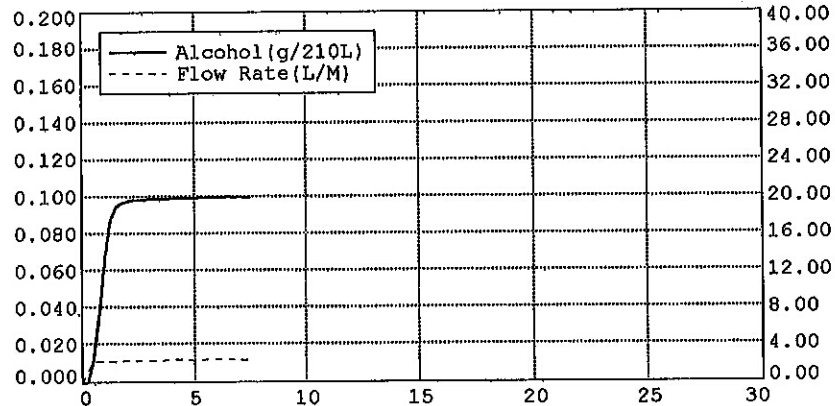
Date: 04/05/2012  
Time: 12:49:06

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
TARGET AT 29.89: 0.099  
LOT #: 07611100A3  
EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 12:50 |
| INTERNAL STANDARD | VERIFIED | 12:50 |
| EXTERNAL STANDARD | 0.100    | 12:50 |
| BLANK TEST        | 0.000    | 12:51 |
| EXTERNAL STANDARD | 0.099    | 12:51 |
| BLANK TEST        | 0.000    | 12:52 |
| EXTERNAL STANDARD | 0.100    | 12:52 |
| BLANK TEST        | 0.000    | 12:53 |
| EXTERNAL STANDARD | 0.100    | 12:53 |
| BLANK TEST        | 0.000    | 12:54 |
| EXTERNAL STANDARD | 0.101    | 12:55 |
| BLANK TEST        | 0.000    | 12:55 |

Average = 0.1006  
Std Dev = 0.0004



## LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
DATAMASTER dmt: 100376

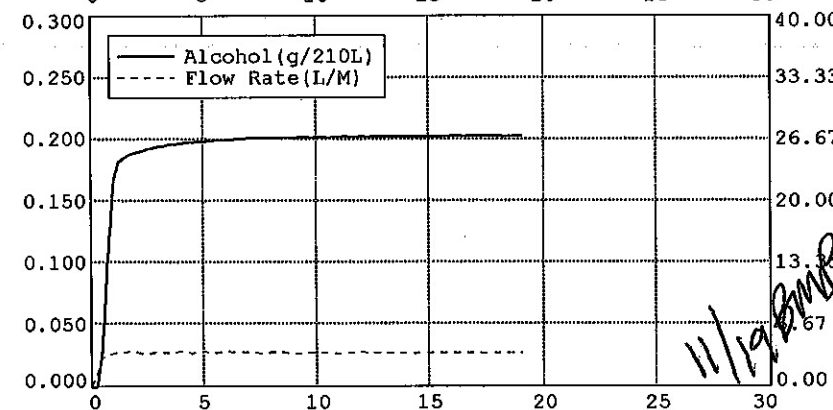
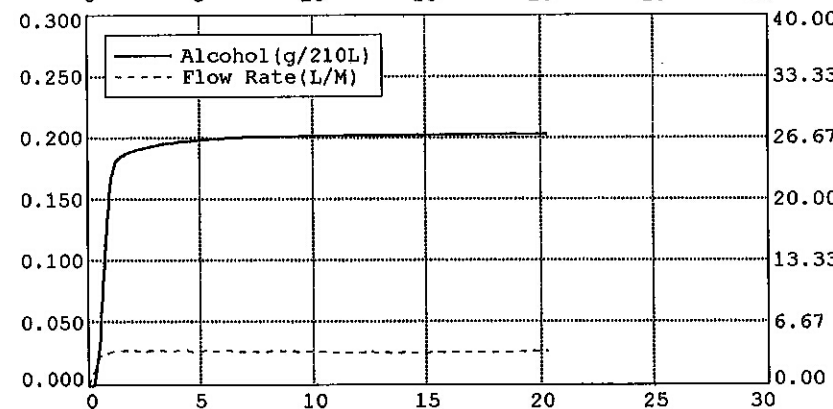
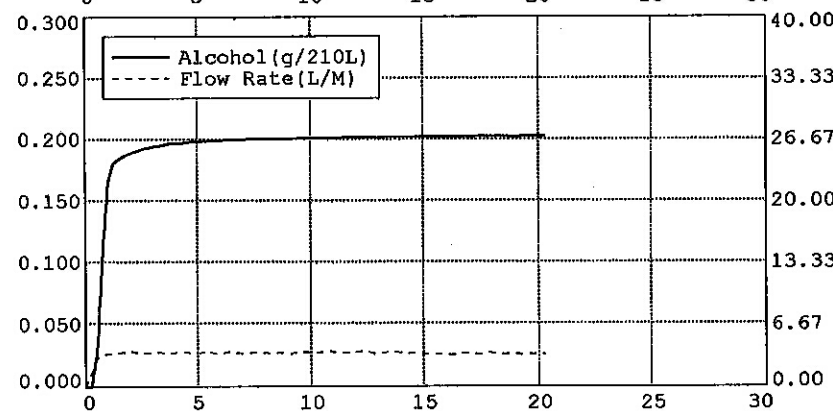
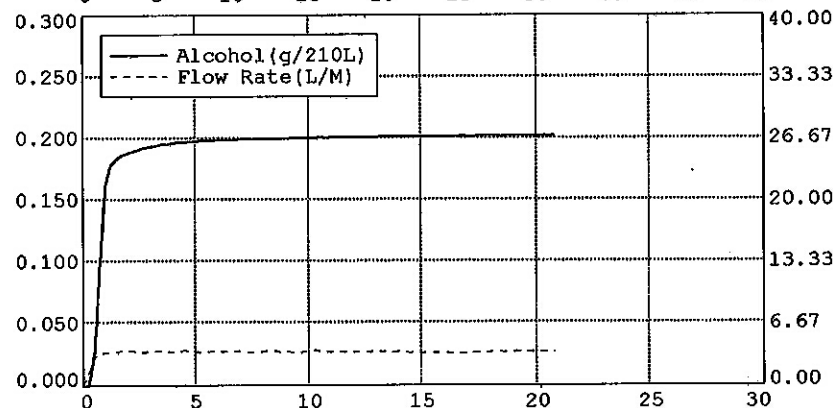
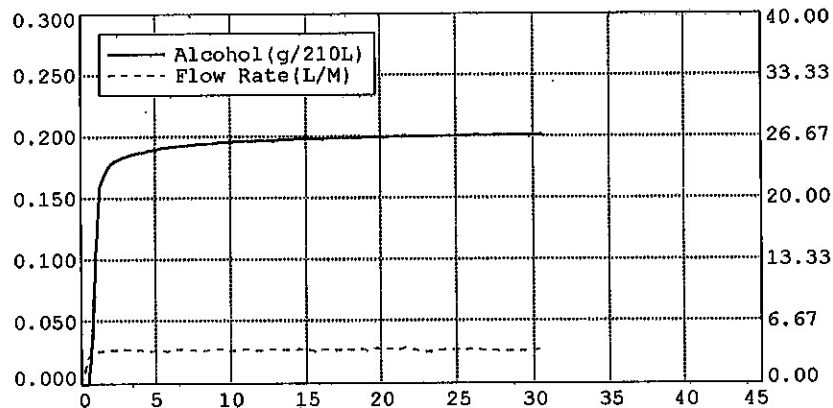
Date: 04/05/2012  
Time: 13:02:48

## EXTERNAL STANDARD INFORMATION

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

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 13:03 |
| INTERNAL STANDARD | VERIFIED | 13:04 |
| EXTERNAL STANDARD | 0.201    | 13:04 |
| BLANK TEST        | 0.000    | 13:05 |
| EXTERNAL STANDARD | 0.202    | 13:06 |
| BLANK TEST        | 0.000    | 13:06 |
| EXTERNAL STANDARD | 0.203    | 13:07 |
| BLANK TEST        | 0.000    | 13:08 |
| EXTERNAL STANDARD | 0.203    | 13:08 |
| BLANK TEST        | 0.000    | 13:09 |
| EXTERNAL STANDARD | 0.203    | 13:10 |
| BLANK TEST        | 0.000    | 13:11 |

Average = 0.2030  
Std Dev = 0.0009



## LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
DATAMASTER dmt: 100376

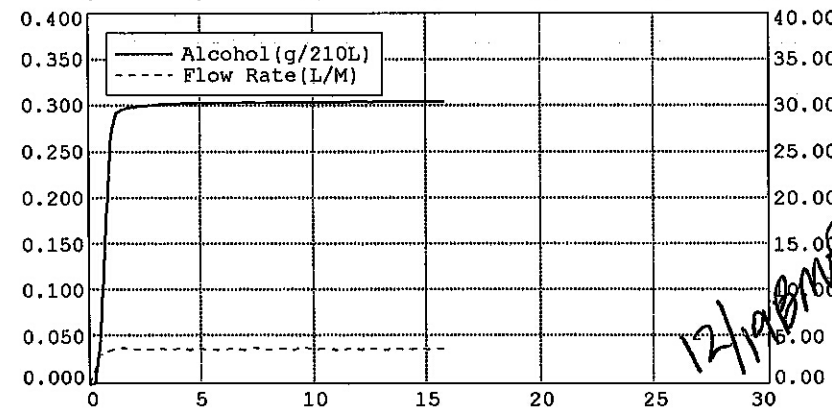
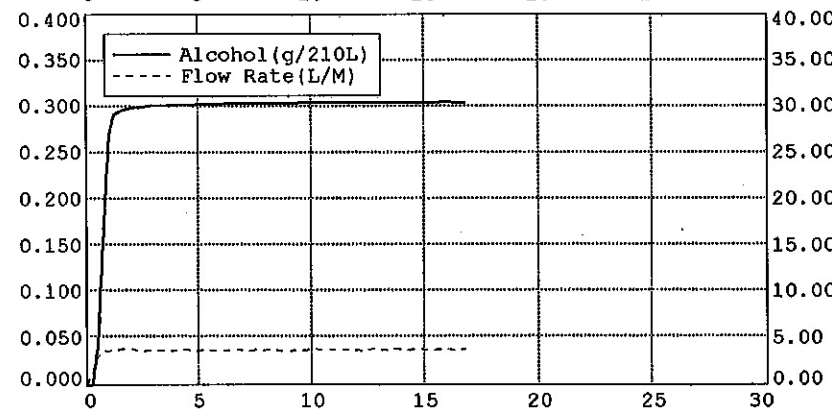
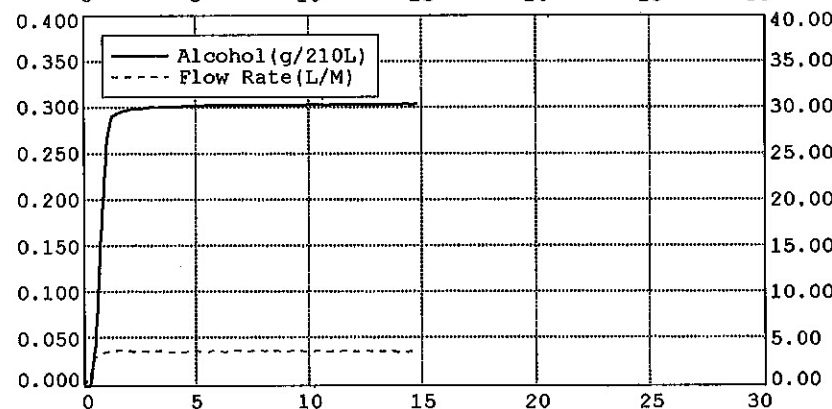
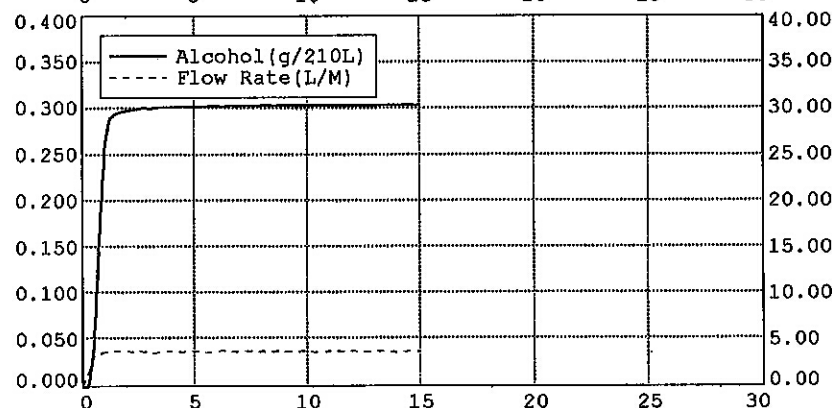
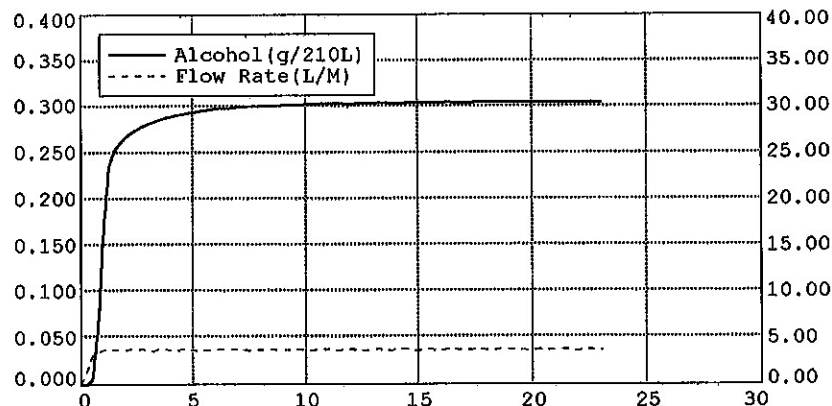
Date: 04/05/2012  
Time: 13:17:11

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
LOT #: 11110  
EXPIRATION: 07/13/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 13:18 |
| INTERNAL STANDARD | VERIFIED | 13:18 |
| EXTERNAL STANDARD | 0.304    | 13:18 |
| BLANK TEST        | 0.000    | 13:19 |
| EXTERNAL STANDARD | 0.304    | 13:20 |
| BLANK TEST        | 0.000    | 13:21 |
| EXTERNAL STANDARD | 0.304    | 13:21 |
| BLANK TEST        | 0.000    | 13:22 |
| EXTERNAL STANDARD | 0.304    | 13:22 |
| BLANK TEST        | 0.000    | 13:23 |
| EXTERNAL STANDARD | 0.304    | 13:24 |
| BLANK TEST        | 0.000    | 13:24 |

Average = 0.3044  
Std Dev = 0.0003



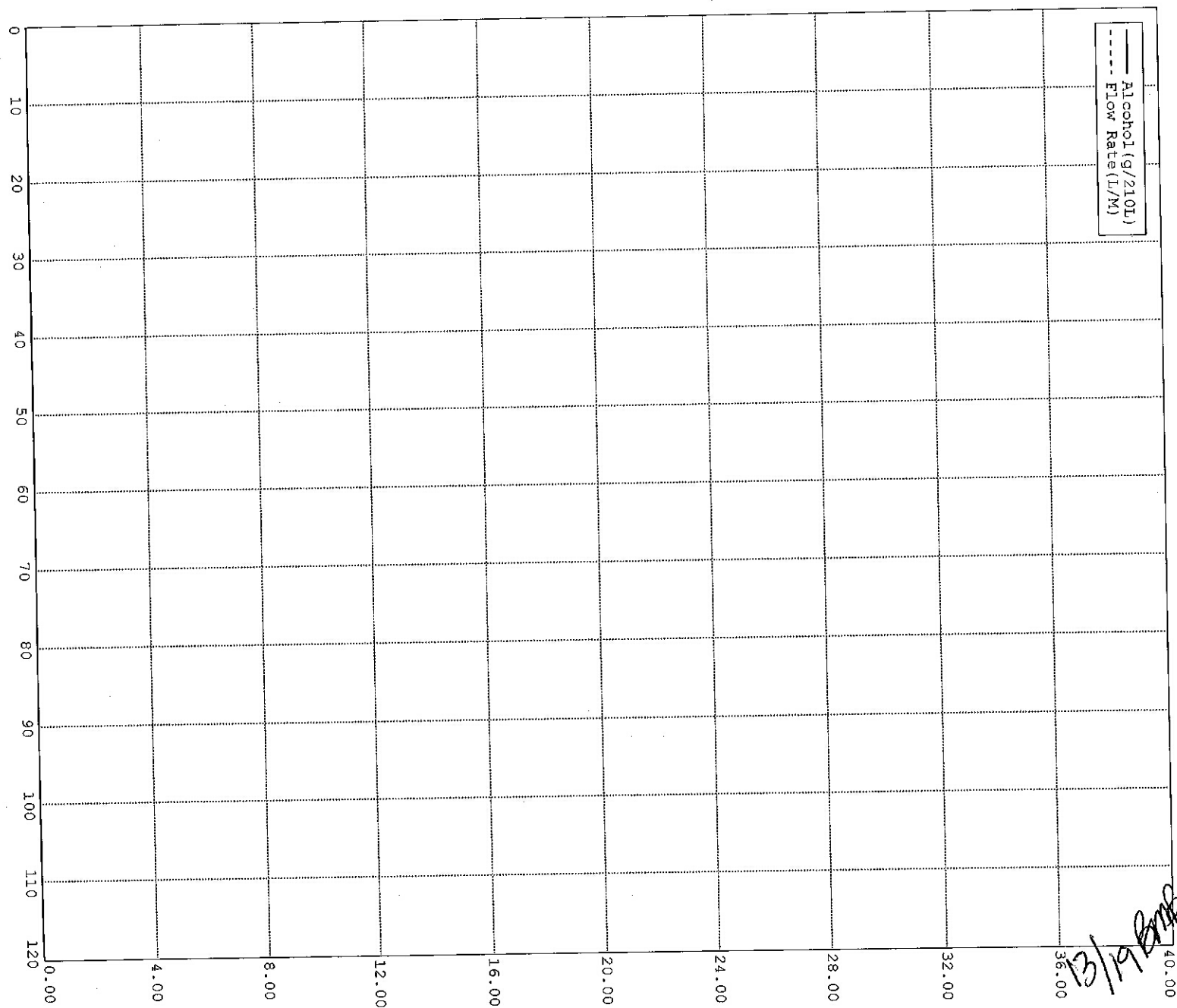


## SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100376Date: 04/05/2012  
Time: 14:29:06SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXXOPERATOR NAME:  
BRANDI BARNETT  
OPERATOR'S #: 7038DEPT/AGENCY:  
INCOMPLETE  
CASE/REPORT: XXXX  
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.87: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

| DIAGNOSTIC CHECK  | PASSED     | 14:30 |
|-------------------|------------|-------|
| BLANK TEST        | 0.000      | 14:30 |
| INTERNAL STANDARD | VERIFIED   | 14:30 |
| EXTERNAL STANDARD | 0.080      | 14:30 |
| BLANK TEST        | 0.000      | 14:31 |
| SUBJECT SAMPLE    | INCOMPLETE | 14:33 |

Barnett



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100376

Date: 04/05/2012  
Time: 14:36:31

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

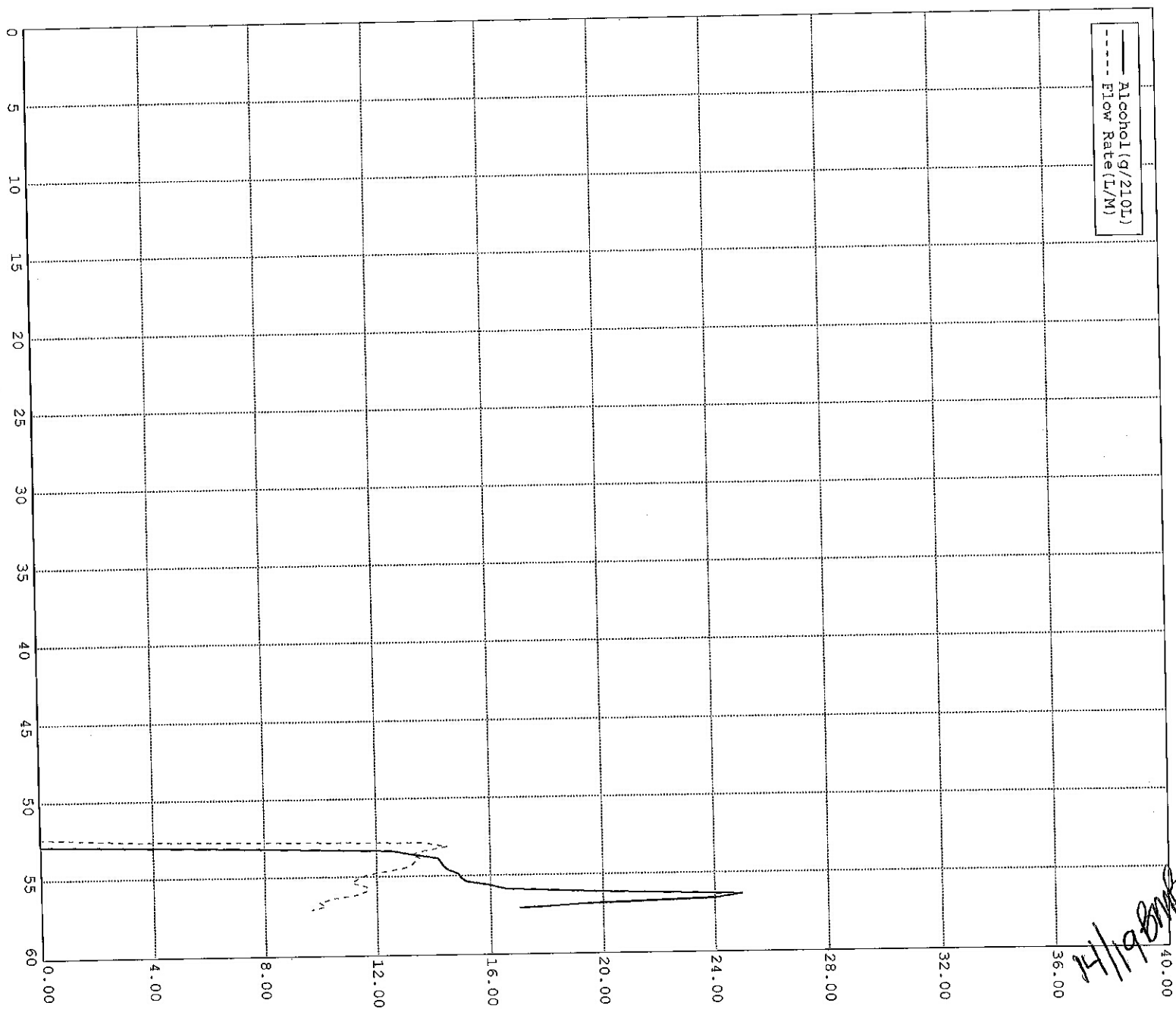
OPERATOR NAME:  
BRANDI BARNETT  
OPERATOR'S #: 7038

DEPT/AGENCY:  
INVALID KNOWN MOUTH ALCOHOL  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.86: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

| DIAGNOSTIC CHECK  | PASSED   | 14:37 |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 14:37 |
| INTERNAL STANDARD | VERIFIED | 14:37 |
| EXTERNAL STANDARD | 0.080    | 14:38 |
| BLANK TEST        | 0.000    | 14:39 |
| SUBJECT SAMPLE    | INVALID  | 14:40 |

BMB



4/11/12 BMB

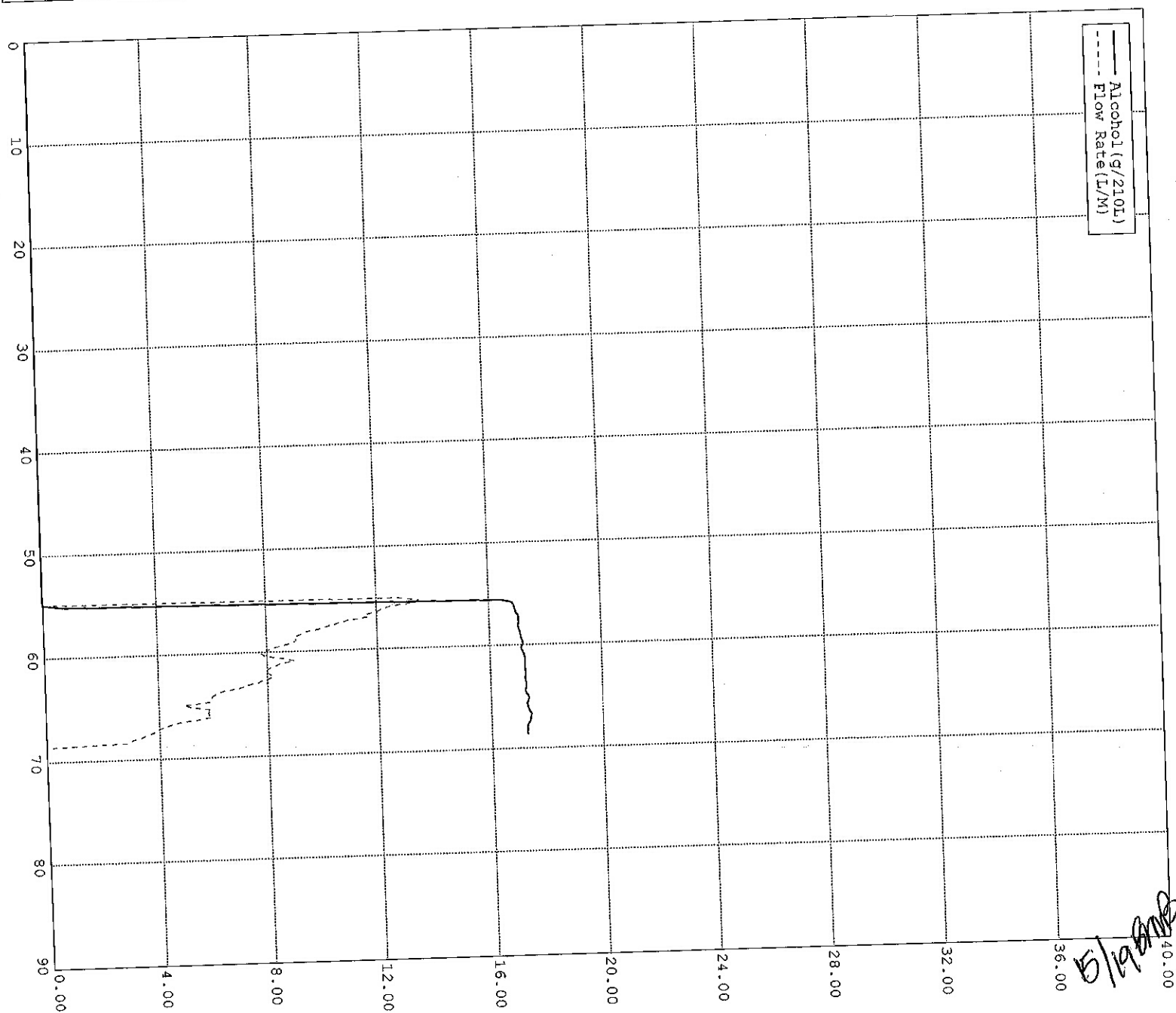
## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100376Date: 04/05/2012  
Time: 14:49:37SUBJECT NAME:  
TEST TEST  
LICENSE #: INTERFERENCEOPERATOR NAME:  
BRANDI BARNETT  
OPERATOR'S #: 7038DEPT/AGENCY:  
ETHANOL AND ACETONE  
CASE/REPORT: XXXX  
TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.86: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013DIAGNOSTIC CHECK  
BLANK TEST  
INTERNAL STANDARD  
X<sub>d</sub> = 0.076 (2.02%)PASSED  
0.000  
14:50EXTERNAL STANDARD  
X[1] = 0.0801 (-0.0003) (0.0009)0.000  
14:52BLANK TEST  
SUBJECT SAMPLE  
X[1] = 0.0868 (-0.0115) (0.0005)INTERFERENCE  
14:53

BMB



## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100376

Date: 04/05/2012  
 Time: 14:57:22

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTERFERENCE

OPERATOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

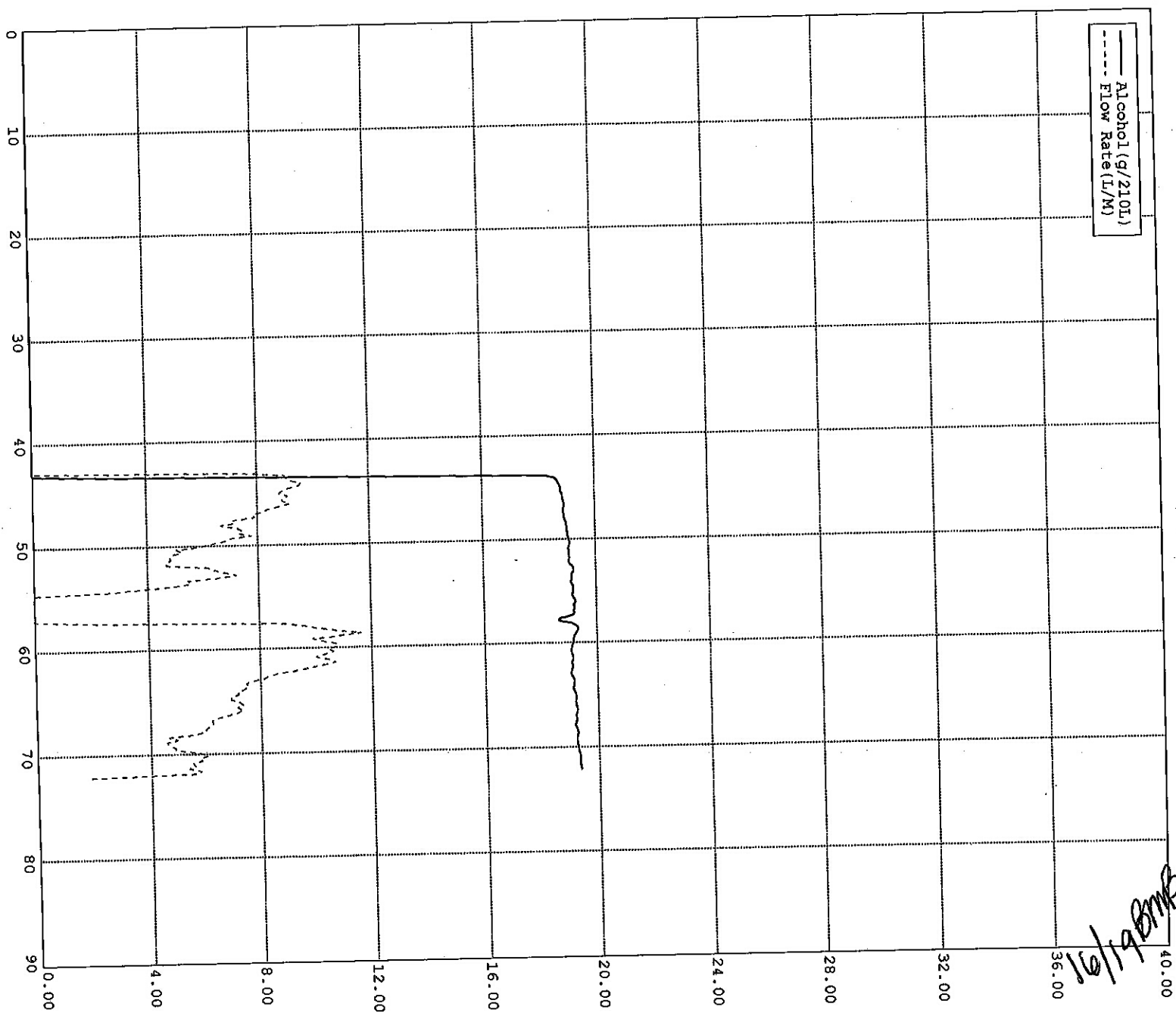
DEPT/AGENCY:  
 ETHANOL AND ISOPROPANOL  
 CASE/REPORT: XXXX  
 TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.86: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

| TEST TYPE               | RESULT                 | TIME   |
|-------------------------|------------------------|--------|
| DIAGNOSTIC CHECK        | PASSED                 | 14:58  |
| BLANK TEST              | 0.000                  | 14:58  |
| INTERNAL STANDARD       | VERIFIED               | 14:58  |
| Xq = 0.076 (1.79%)      | 0.079                  | 14:58  |
| EXTERNAL STANDARD       | X[1] = 0.0799 (0.0002) | 0.0006 |
| BLANK TEST              | 0.000                  | 14:59  |
| SUBJECT SAMPLE          | INTERFERENCE           | 15:01  |
| X[1] = 0.0973 (-0.0269) | (0.0005)               |        |

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 4/6/12

## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100376Date: 04/05/2012  
Time: 15:05:10SUBJECT NAME:  
TEST TEST  
LICENSE #: INTERFERENCEOPERATOR NAME:  
BRANDI BARNETT  
OPERATOR'S #: 7038DEPT/AGENCY:  
NEGATIVE CONTROL  
CASE/REPORT: XXXX  
TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

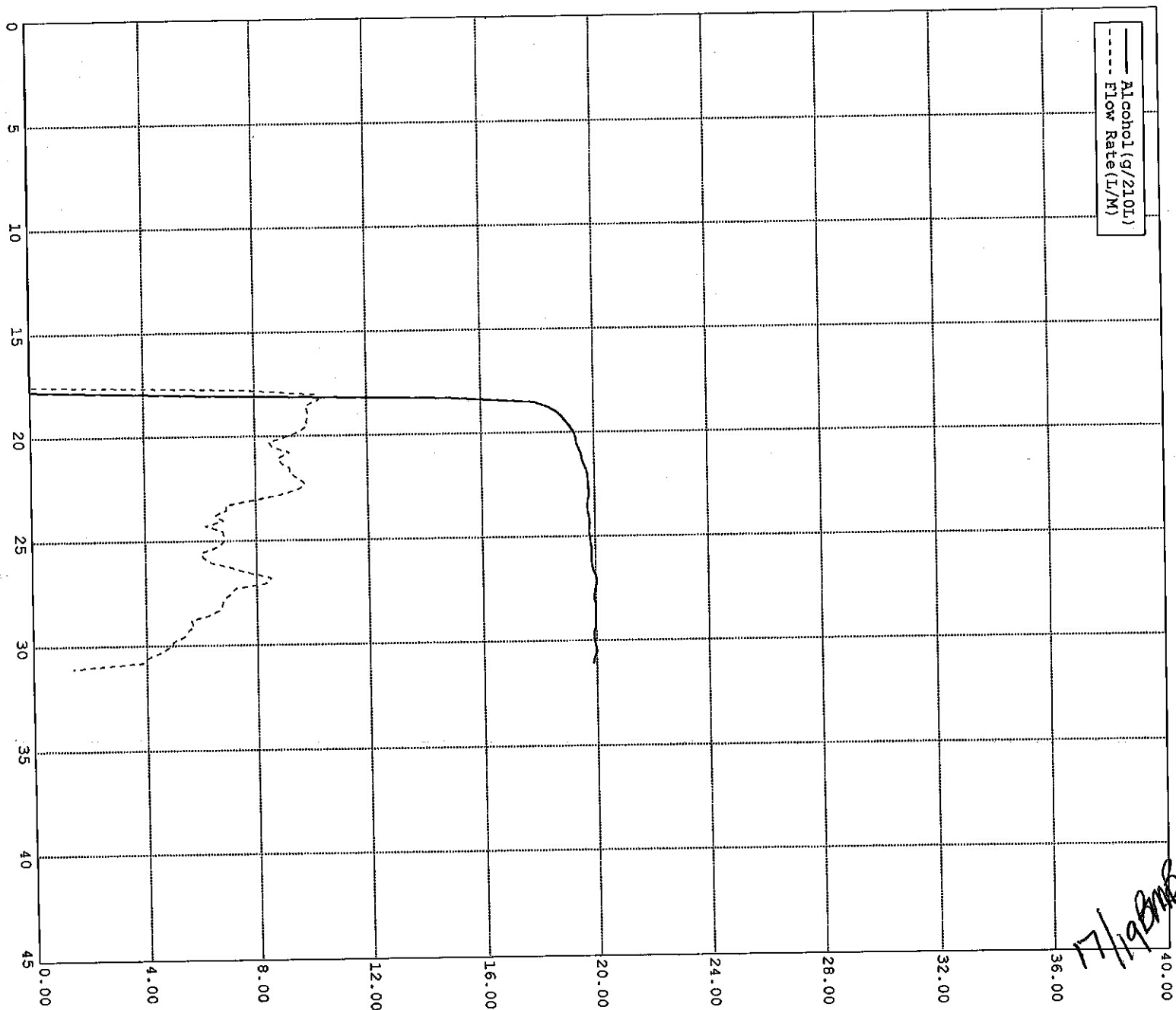
NOMINAL: 0.080  
TARGET AT 29.86: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

## DIAGNOSTIC CHECK

PASSED 15:06  
BLANK TEST 0.000 15:06  
INTERNAL STANDARD VERIFIED 15:06X<sub>d</sub> = 0.076 (1.90%)EXTERNAL STANDARD 0.080 15:06  
X[1] = 0.0802 (0.0002) (0.0011)BLANK TEST 0.000 15:07  
SUBJECT SAMPLE (Vol=1.68L) 0.100 15:08  
X[1] = 0.1000 (-0.0010) (-0.0003)BLANK TEST 0.000 15:09  
EXTERNAL STANDARD 0.079 15:09  
X[1] = 0.0798 (0.0002) (0.0001)

BLANK TEST 0.000 15:10

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## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dnt: 100376

Date: 04/05/2012  
 Time: 14:42:13

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

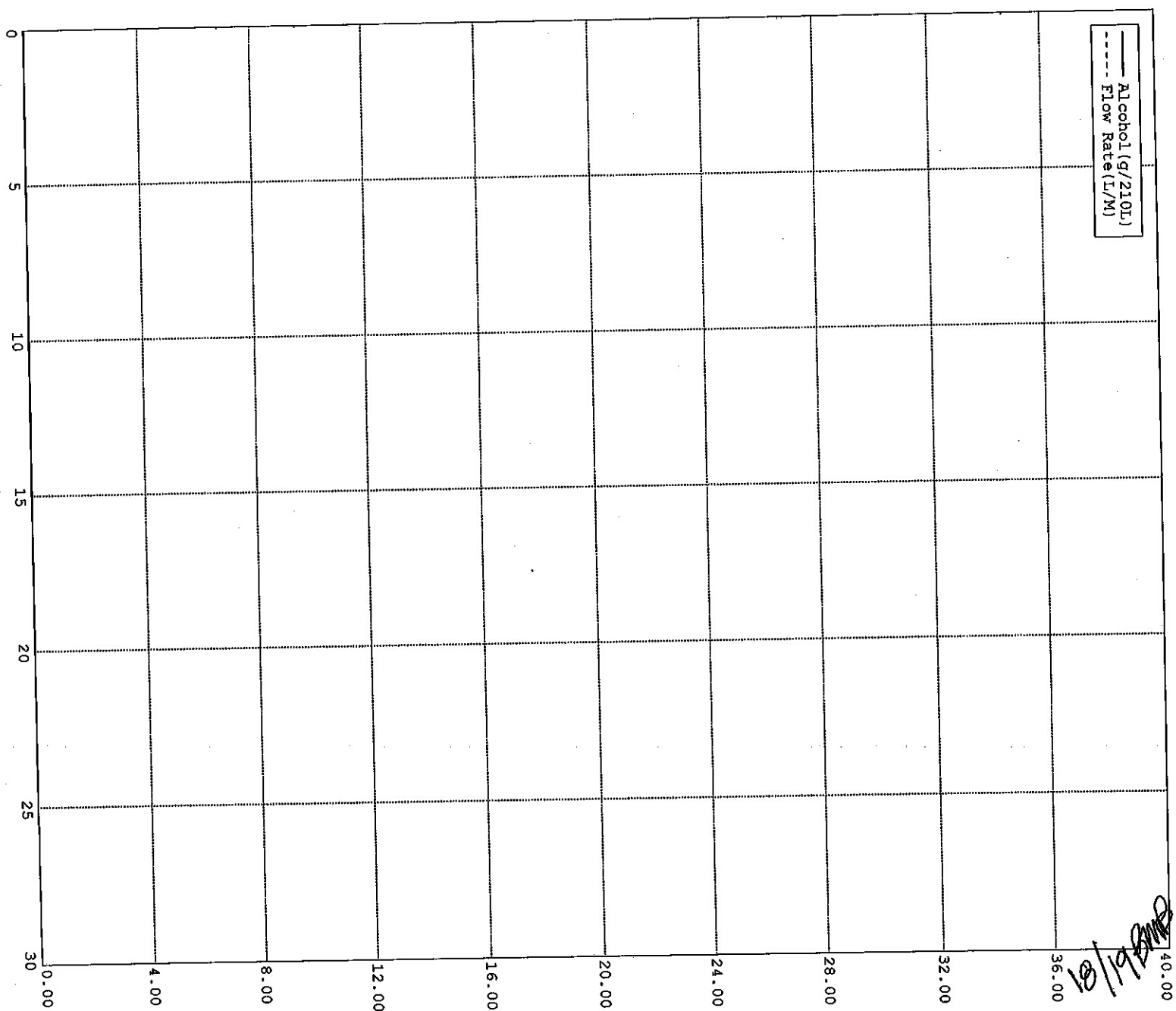
OPERATOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

DEPT/AGENCY:  
 RADIO FREQUENCY INTERFERENCE  
 CASE/REPORT: XXXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.86: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK  
 BLANK TEST PASSED 14:43  
 INTERNAL STANDARD VERIFIED 14:43  
 EXTERNAL STANDARD 0.080 14:43  
 BLANK TEST 0.000 14:44

RFI DETECTED



## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100376

Date: 04/05/2012  
 Time: 16:19:38

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

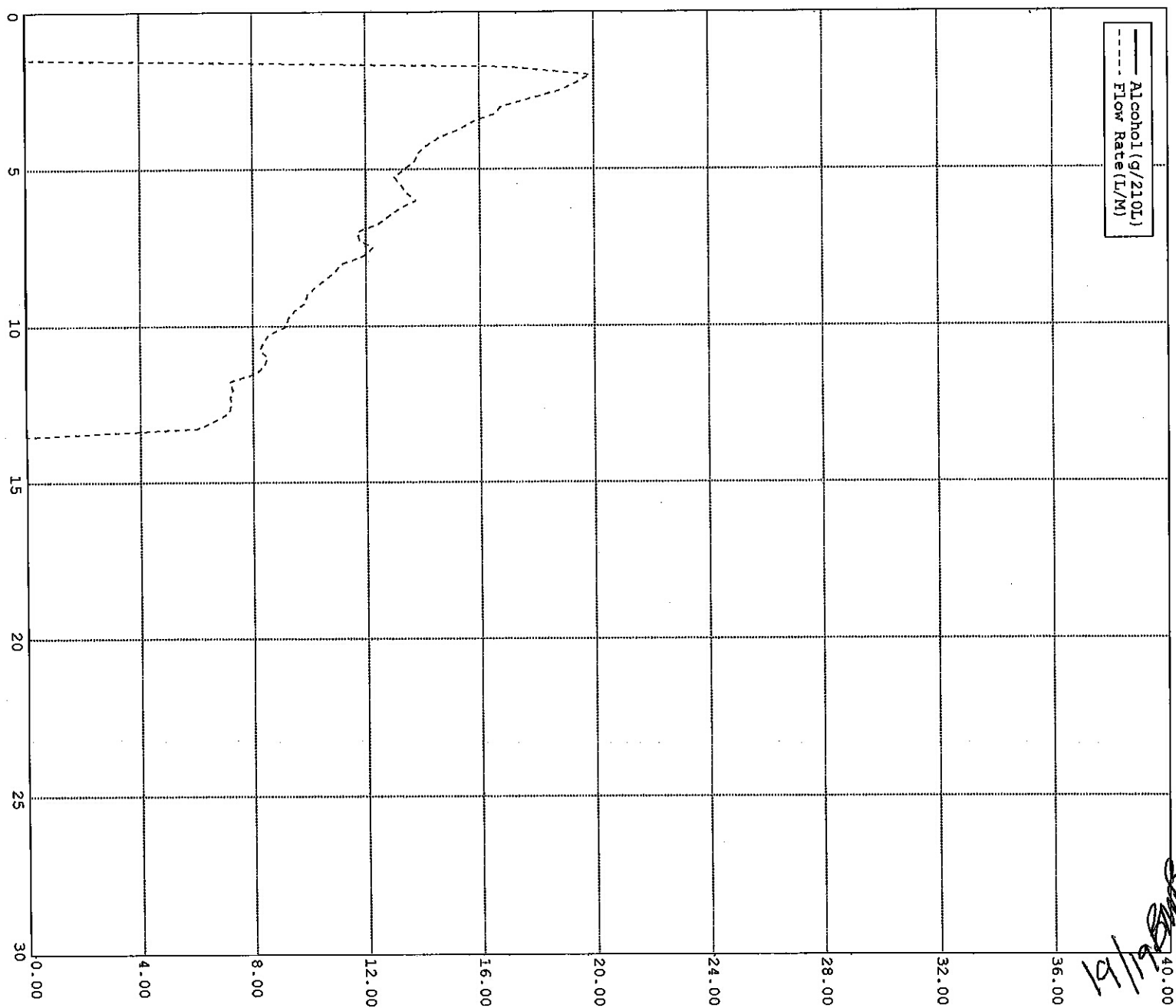
OPERATOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

DEPT/AGENCY:  
 NON DRINKING SUBJECT TEST  
 CASE/REPORT: XXXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.84: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

| DIAGNOSTIC CHECK  | PASSED   | 16:20 |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 16:21 |
| INTERNAL STANDARD | VERIFIED | 16:21 |
| EXTERNAL STANDARD | 0.080    | 16:21 |
| BLANK TEST        | 0.000    | 16:22 |
| SUBJECT SAMPLE    | 0.000    | 16:22 |
| BLANK TEST        | 0.000    | 16:23 |
| EXTERNAL STANDARD | 0.080    | 16:23 |
| BLANK TEST        | 0.000    | 16:24 |

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Final page for report

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8/21/2013