


|   |   |                      |  |
|---|---|----------------------|--|
|  | State of Alaska Scientific Crime Detection Laboratory |                      |  |
|   | DataMaster Certification Form - DMCEF2011R1           |                      |  |
|   | Issuing Authority - Nita Bolz, Scientific Director    |                      |  |
| Approval date: 03/10/11   | Effective date: 03/10/11                              | Archive date: Active |  |

## DataMaster DMT Certification Form

Instrument # 100385Analyst Brandi BarnettDate 4/27/11

1. Diagnostic Test (attached)
2. Voltage Checks
  - a. Adjust voltages, if needed 
    - i. Lamp
    - ii. Bias
    - iii. Cooler
    - iv. Chopper Frequency
  - b. Set RFI
  - c. Adjust barometer reading, if needed
  - d. Adjust volume setting, if needed
  - e. Print Technician Screen (attached)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1600 mL
5. Dry-Gas Linearity Test (attached)
  - a. Levels Used 
    - i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 02/01/2013
    - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013
    - iii. 0.080g/210L Mnf ILMO Lot 02511080A3 Exp 02/01/2013
    - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/2013
    - v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 03/01/2013
    - vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 03/01/2013
6. Functional Tests (attached)
  - a. Incomplete
  - b. Invalid
  - c. Interference 
    - i. Acetone - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/2011
      1. Simulator Calibration Date 10/18/2010 SN DR6267
    - ii. Isopropanol - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/2011
      1. Simulator Calibration Date 08/04/2010 SN SD1202
  - d. RFI
7. Calibrate Stylus
8. Verify card reader is functional
9. Upload
10. Reset Options
11. Non-Drinking Subject Test (attached)

1/10/2011

## DIAGNOSTIC RECORD

Alaska Department of Public Safety  
DATAMASTER dnt: 100385

Date: 04/27/2011  
Time: 10:24:35

## VERSIONS

DMT: 1.01  
PIC: 3.02  
Modem: 2.0  
Questions: 2.2

## TEMPERATURES

Sample Chamber = 48.8°C PASSED  
Breath Tube = 47.4°C PASSED

## PUMP INFO

Flow Rate = 3.814 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

2/10/08 MB

Technician Screen

-----  
DATAMASTER dnt: 100385  
-----

Date: 04/27/2011  
Time: 10:38 AM

Temperatures (°C)

Sample Cell: 46.4°C  
Breath Tube: 46.0°C

Current Barometer: 29.9 in  
Volume (Ltr): 1.44

Settings

Lamp: 1.59 V  
Bias: 79 V  
Cooler: 1.58 V  
Chopper: 528 Hz

Voltages (V)

Flow: 1.05 V  
Detector: 0.111 V

3/18/11

CALIBRATION FACTORS

Alaska Department of Public Safety  
DATAMASTER dmt: 100385

Date: 03/09/2011  
Time: 12:02:20

Ca = 0.1000  
CAL = 0.994034 0.800 <= CAL < 1.200  
b1 = 0.0002 0.0000 <= b1 < 0.0040  
b2 = 0.0044 0.0010 <= b2 < 0.0100  
b3 = 0.0001 0.0000 <= b3 < 0.0040  
Xg = 0.0918 0.0500 <= Xg < 0.2000  
a21 = 1.184989 1.050 <= a21 < 1.300  
a31 = 0.500132 0.300 <= a31 < 0.800

4/18/2011

SUBJECT TEST

Alaska Department of Public Safety  
 DATABASE NUMBER: 100385

Date: 04/27/2011  
 Time: 10:47:08

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

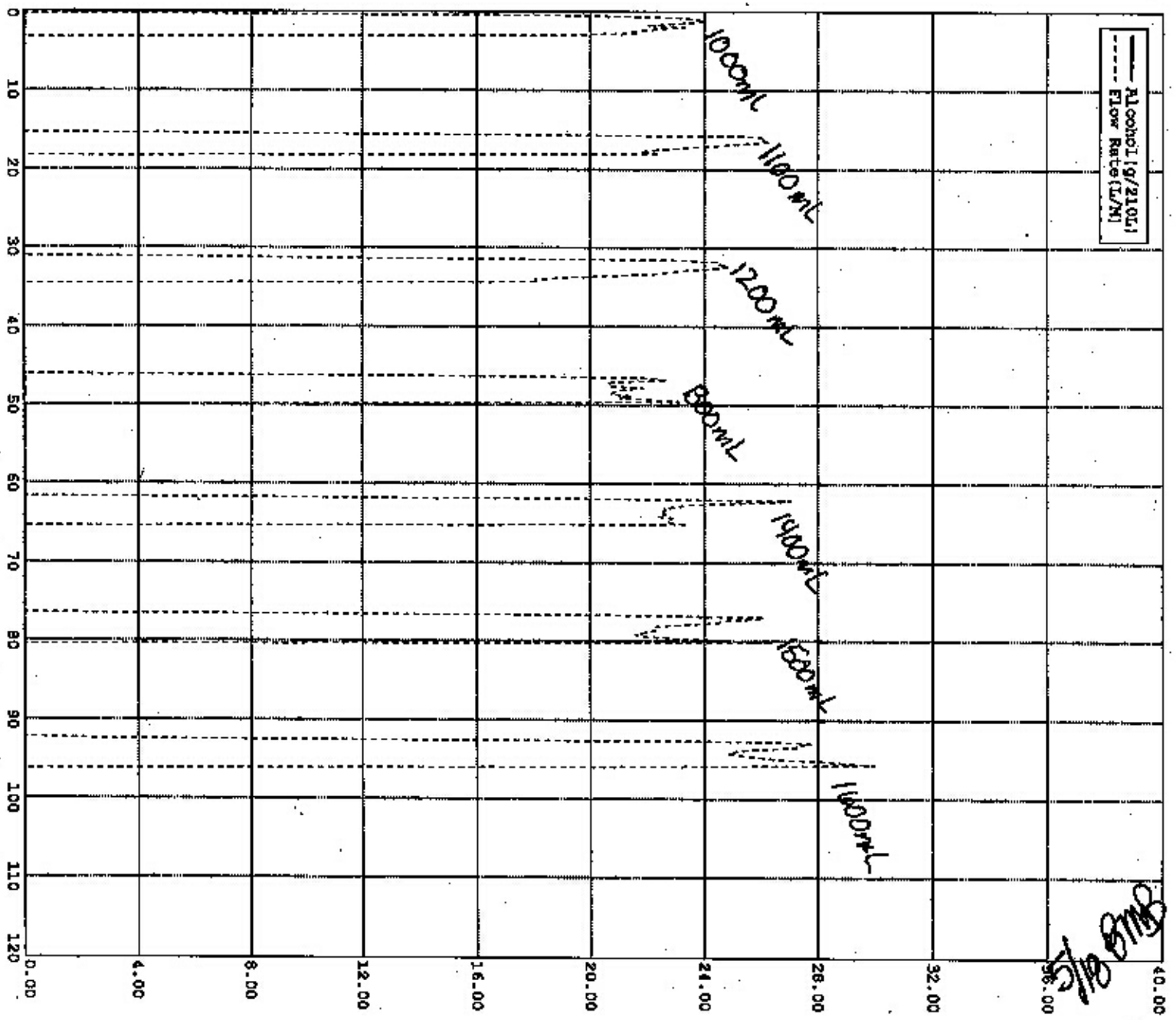
OPERATOR NAME:  
 MINIMUM VOLUME  
 OPERATOR'S #: XXXX

DEPT/AGENCY:  
 XXXX  
 CASE/REPORT: XXXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.90: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED | TIME  |
|-------------------|--------|-------|
| BLANK TEST        | 0.000  | 10:48 |
| INTERNAL STANDARD | 0.000  | 10:48 |
| EXTERNAL STANDARD | 0.082  | 10:48 |
| BLANK TEST        | 0.000  | 10:49 |
| SUBJECT SAMPLE    | 0.000  | 10:51 |
| BLANK TEST        | 0.000  | 10:52 |
| EXTERNAL STANDARD | 0.082  | 10:52 |
| BLANK TEST        | 0.000  | 10:53 |

BMB



LINERILITY CHECK

Alaska Department of Public Safety  
 DEMONSTRATOR GNC: 100385

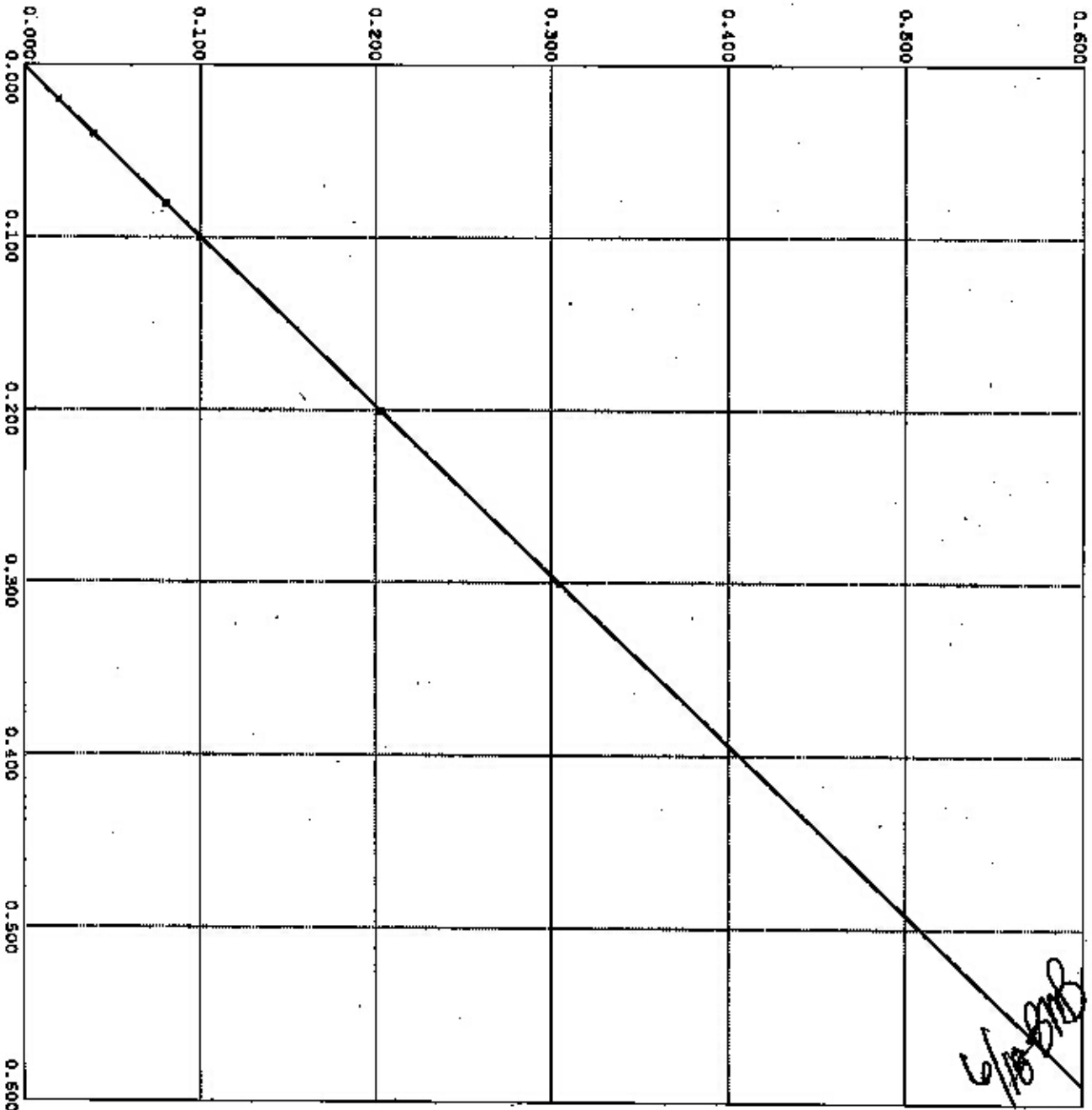
Date: 04/27/2011  
 Time: 12:54:24

SUPERVISOR NAME:  
 BRANDI M BARRETT  
 OPERATOR'S #: 7038

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.020  | 0.0202  | 0.0004    |
| 0.040  | 0.0400  | 0.0000    |
| 0.080  | 0.0816  | 0.0005    |
| 0.100  | 0.1002  | 0.0004    |
| 0.200  | 0.2040  | 0.0017    |
| 0.300  | 0.3056  | 0.0013    |

SLOPE = 1.021027  
 R<sup>2</sup> = 0.999981

*BMB*



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmc: 100385

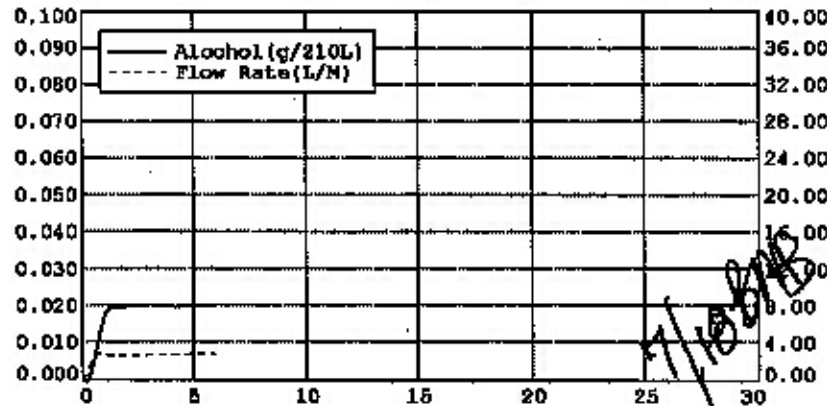
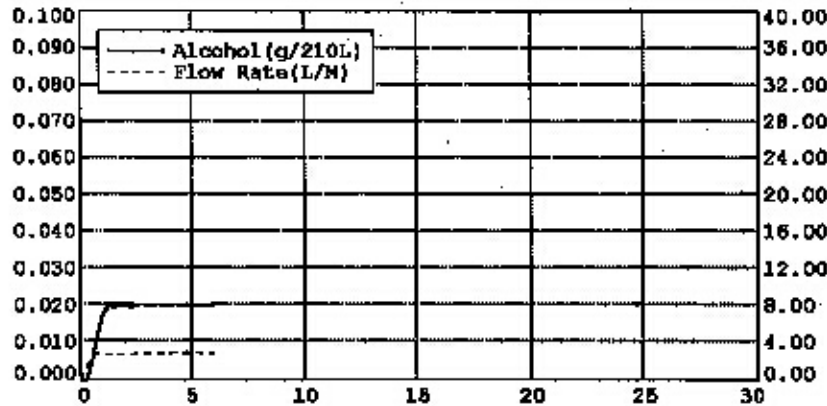
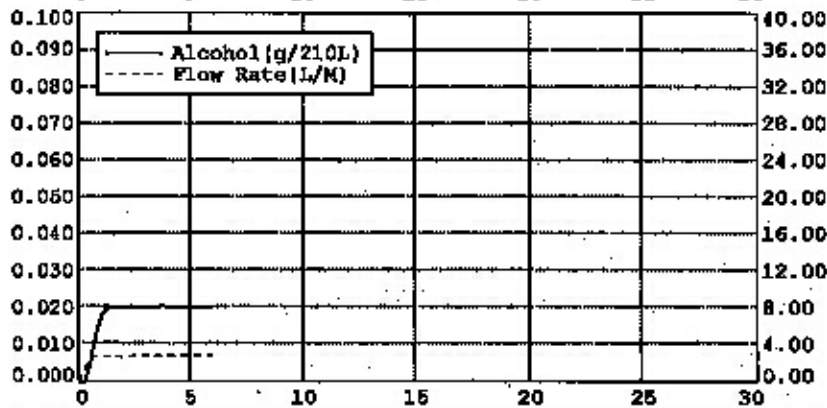
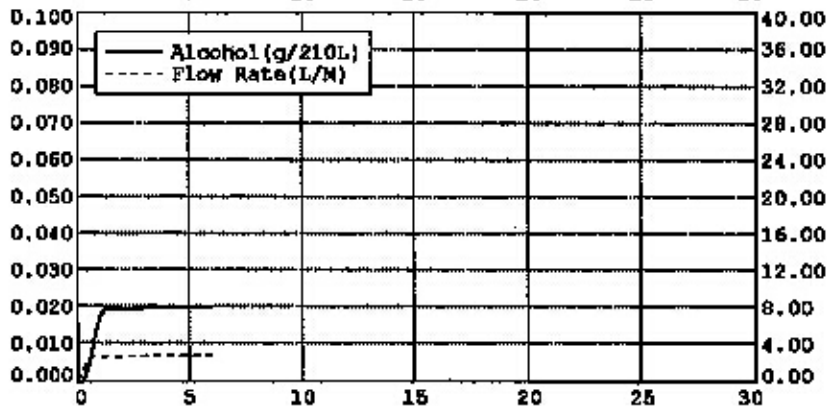
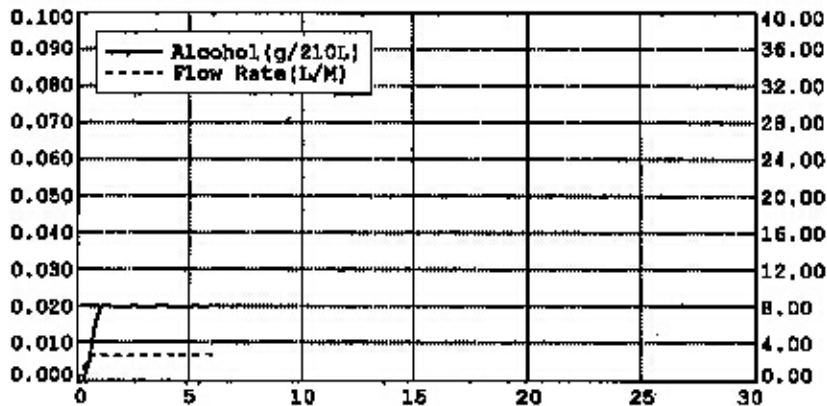
Date: 04/27/2011  
 Time: 12:54:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.93: 0.020  
 LOT #: 02611020A1  
 EXPIRATION: 02/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 12:55 |
| INTERNAL STANDARD | VERIFIED | 12:55 |
| EXTERNAL STANDARD | 0.021    | 12:55 |
| BLANK TEST        | 0.000    | 12:56 |
| EXTERNAL STANDARD | 0.020    | 12:56 |
| BLANK TEST        | 0.000    | 12:57 |
| EXTERNAL STANDARD | 0.020    | 12:58 |
| BLANK TEST        | 0.000    | 12:58 |
| EXTERNAL STANDARD | 0.020    | 12:59 |
| BLANK TEST        | 0.000    | 13:00 |
| EXTERNAL STANDARD | 0.020    | 13:00 |
| BLANK TEST        | 0.000    | 13:01 |

Average = 0.0202  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

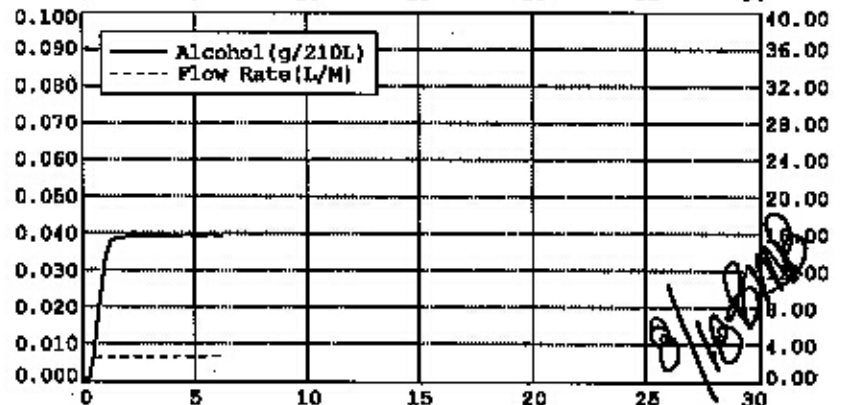
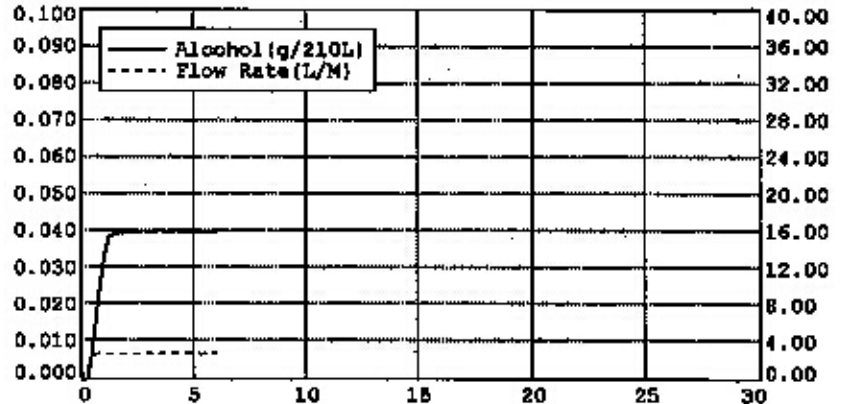
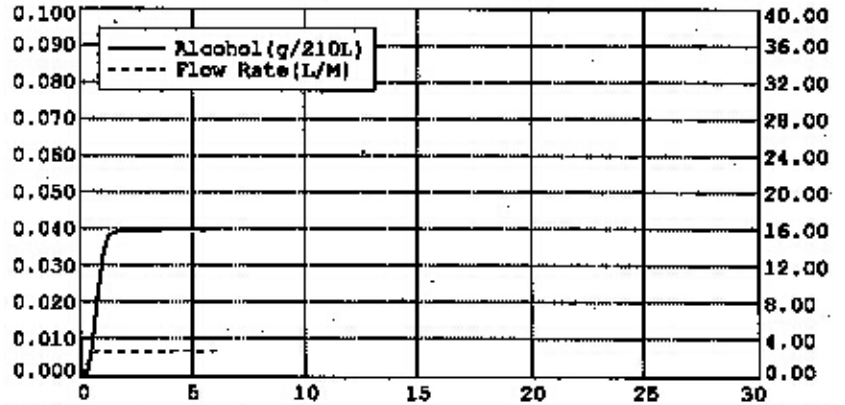
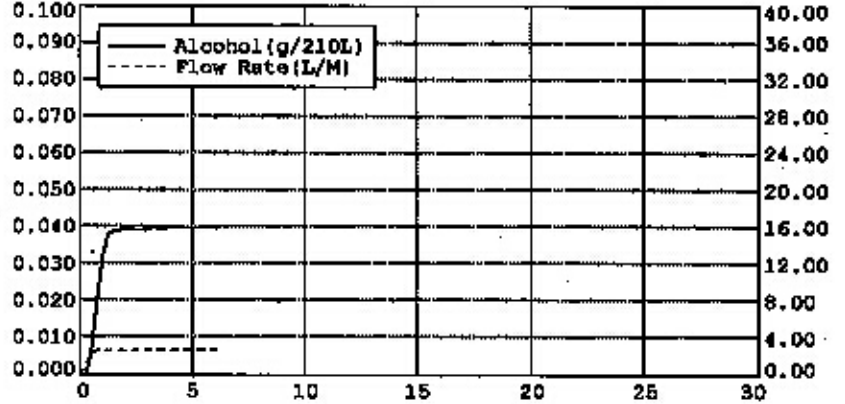
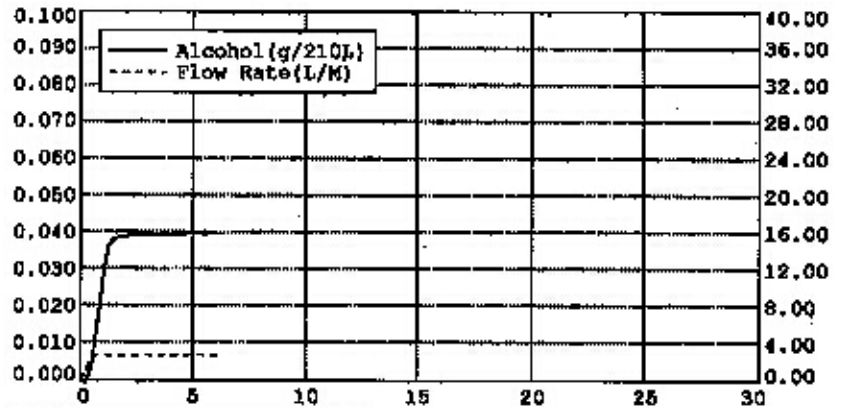
Alaska Department of Public Safety  
 DATAMASTER dnt: 100385

Date: 04/27/2011  
 Time: 13:02:26

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.040  
 TARGET AT 29.93: 0.040  
 LOT #: D2811040A2  
 EXPIRATION: 02/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 13:03 |
| INTERNAL STANDARD | VERIFIED | 13:03 |
| EXTERNAL STANDARD | 0.040    | 13:03 |
| BLANK TEST        | 0.000    | 13:04 |
| EXTERNAL STANDARD | 0.040    | 13:04 |
| BLANK TEST        | 0.000    | 13:05 |
| EXTERNAL STANDARD | 0.040    | 13:06 |
| BLANK TEST        | 0.000    | 13:06 |
| EXTERNAL STANDARD | 0.040    | 13:07 |
| BLANK TEST        | 0.000    | 13:08 |
| EXTERNAL STANDARD | 0.040    | 13:08 |
| BLANK TEST        | 0.000    | 13:09 |

Average = 0.0400  
 Std Dev = 0.0000





## LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dot: 100385

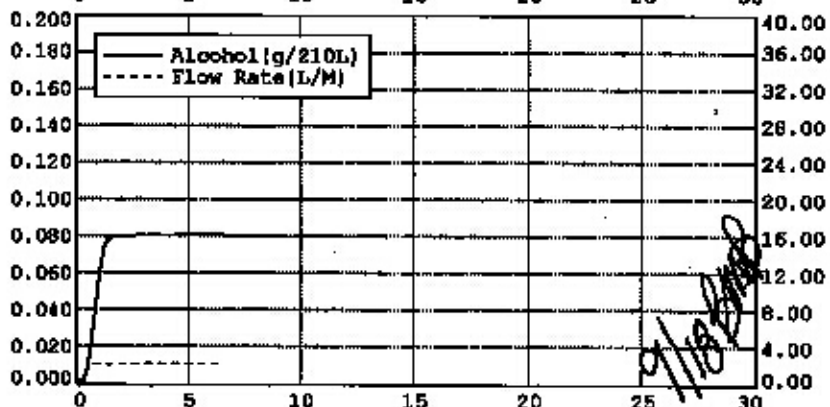
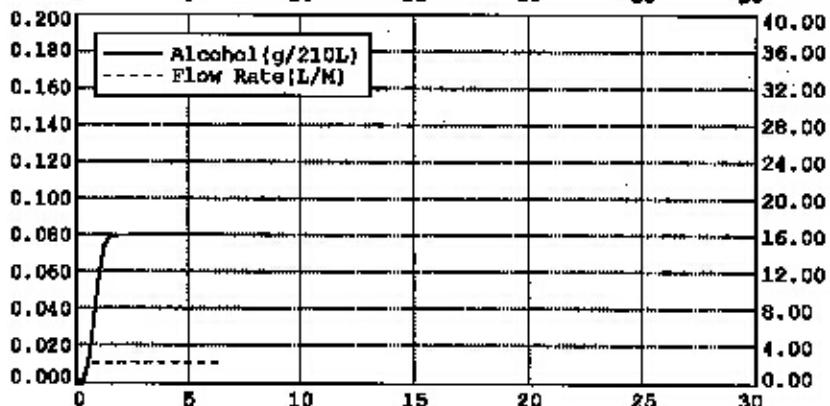
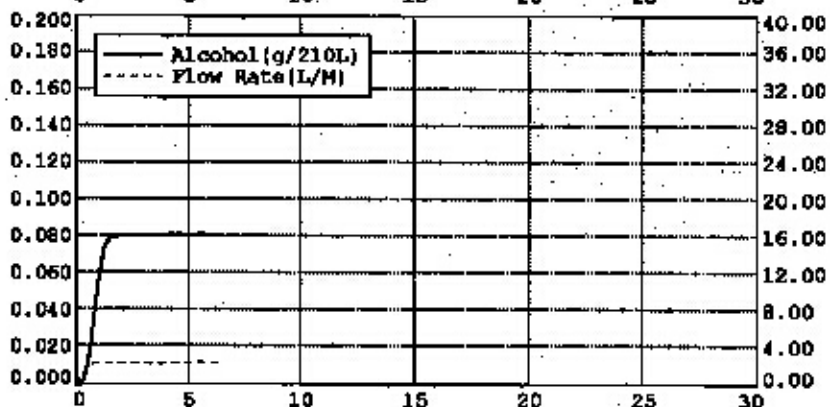
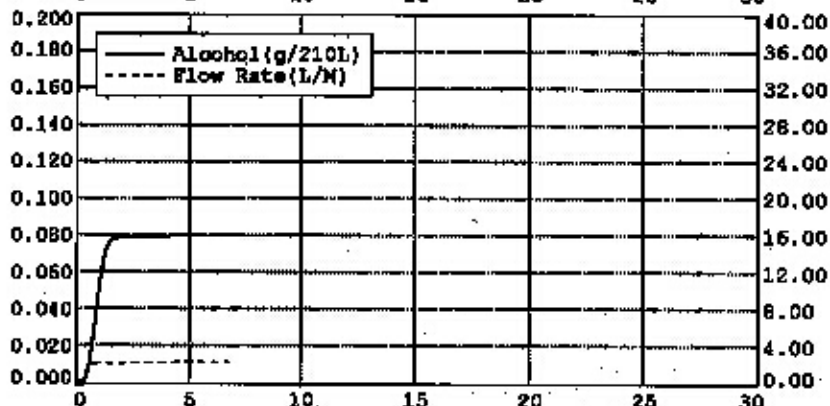
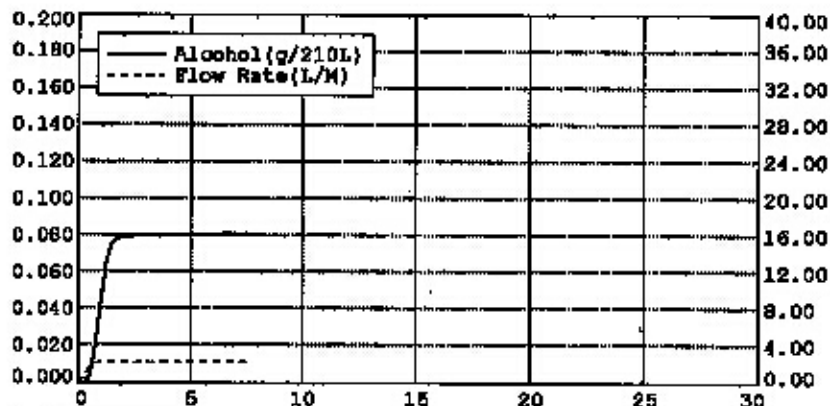
Date: 04/27/2011  
 Time: 13:10:58

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.94: 0.080  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 13:12 |
| INTERNAL STANDARD | VERIFIED | 13:12 |
| EXTERNAL STANDARD | 0.082    | 13:12 |
| BLANK TEST        | 0.000    | 13:13 |
| EXTERNAL STANDARD | 0.081    | 13:13 |
| BLANK TEST        | 0.000    | 13:14 |
| EXTERNAL STANDARD | 0.082    | 13:14 |
| BLANK TEST        | 0.000    | 13:15 |
| EXTERNAL STANDARD | 0.081    | 13:15 |
| BLANK TEST        | 0.000    | 13:16 |
| EXTERNAL STANDARD | 0.082    | 13:16 |
| BLANK TEST        | 0.000    | 13:17 |

Average = 0.0816  
 Std Dev = 0.0005



## LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
DATAMASTER dnt: 100385

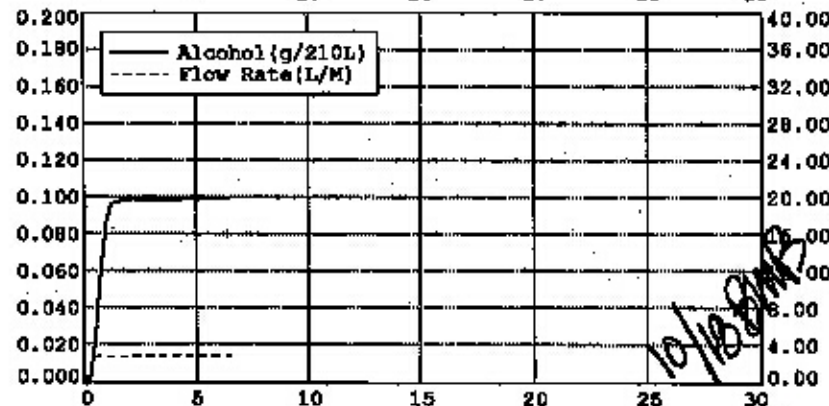
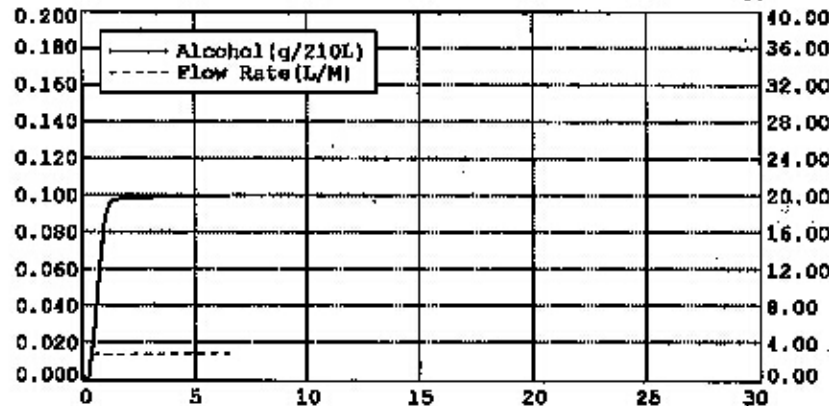
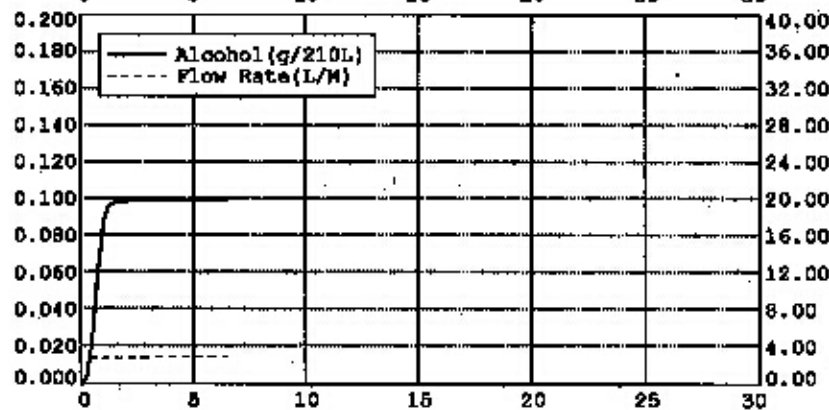
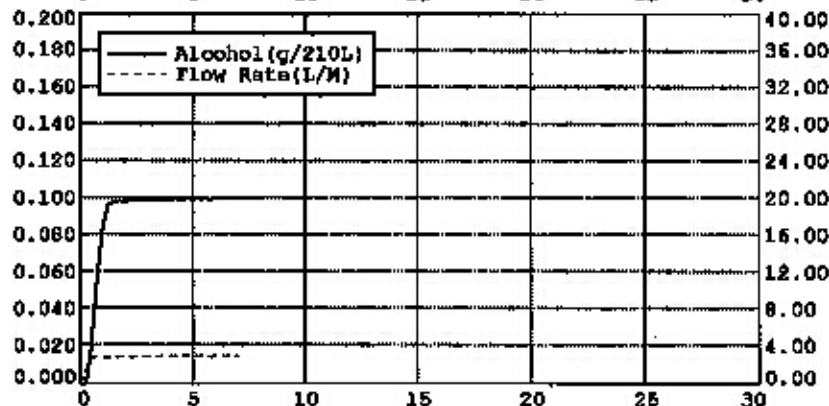
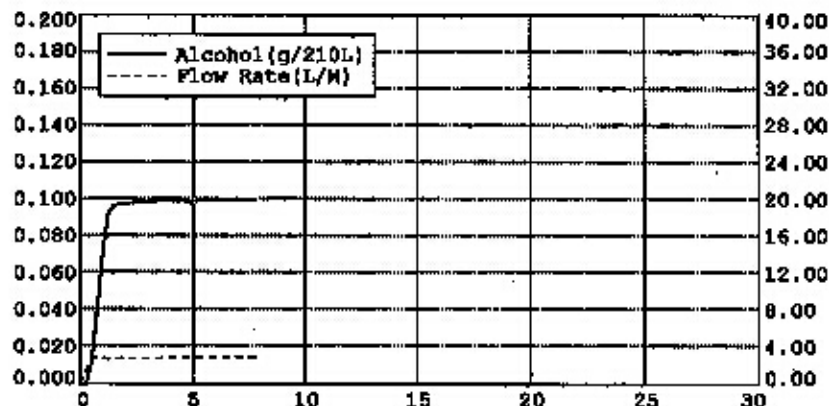
Date: 04/27/2011  
Time: 14:00:37

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
TARGET AT 29.93: 0.100  
LOT #: 05611100A2  
EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 14:01 |
| INTERNAL STANDARD | VERIFIED | 14:01 |
| EXTERNAL STANDARD | 0.100    | 14:02 |
| BLANK TEST        | 0.000    | 14:02 |
| EXTERNAL STANDARD | 0.101    | 14:03 |
| BLANK TEST        | 0.000    | 14:04 |
| EXTERNAL STANDARD | 0.100    | 14:04 |
| BLANK TEST        | 0.000    | 14:05 |
| EXTERNAL STANDARD | 0.100    | 14:05 |
| BLANK TEST        | 0.000    | 14:06 |
| EXTERNAL STANDARD | 0.100    | 14:06 |
| BLANK TEST        | 0.000    | 14:07 |

Average = 0.1002  
Std Dev = 0.0004



## LINEARITY CHECK: Control Test 5

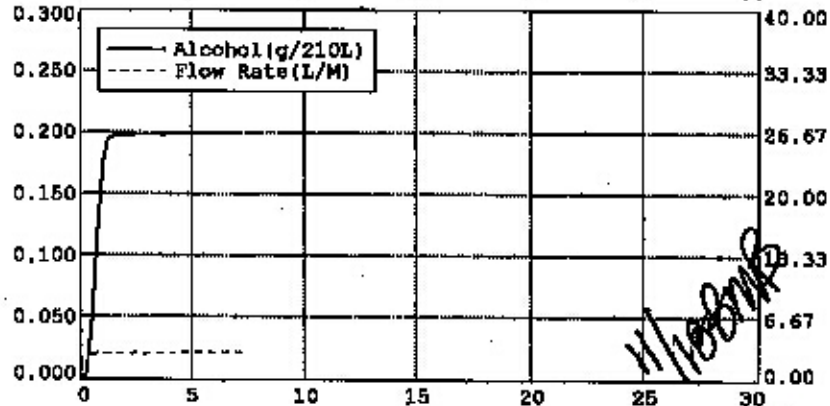
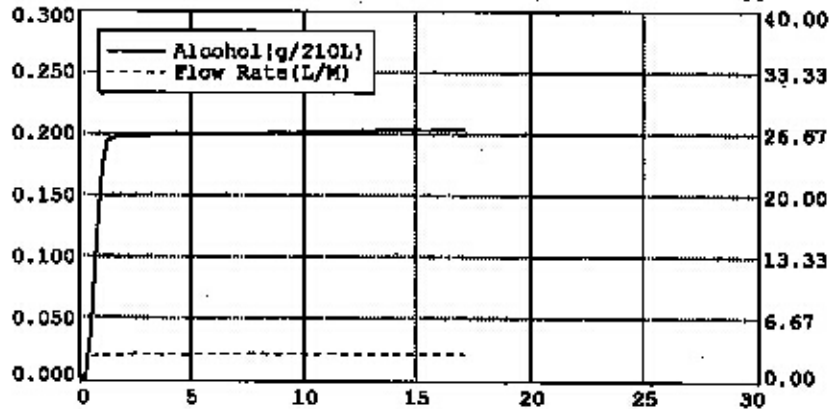
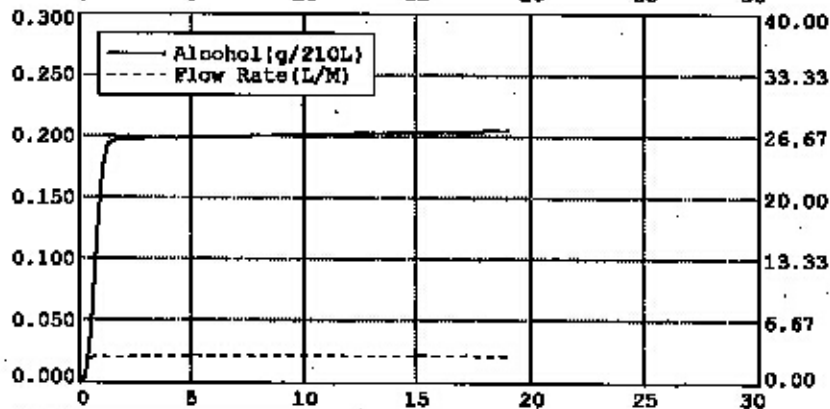
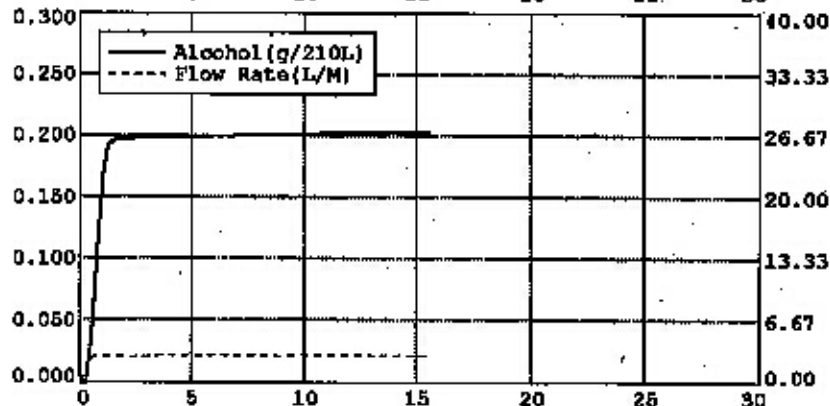
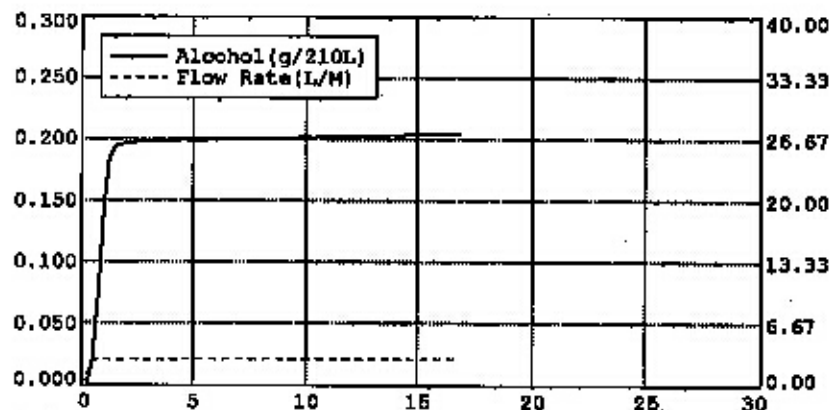
Alaska Department of Public Safety  
DATAMASTER dnt: 100385

Date: 04/27/2011  
Time: 14:12:19

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.200  
TARGET AT 29.93: 0.200  
LOT #: 07411200A2  
EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 14:13 |
| INTERNAL STANDARD | VERIFIED | 14:13 |
| EXTERNAL STANDARD | 0.205    | 14:13 |
| BLANK TEST        | 0.000    | 14:15 |
| EXTERNAL STANDARD | 0.204    | 14:15 |
| BLANK TEST        | 0.000    | 14:16 |
| EXTERNAL STANDARD | 0.205    | 14:17 |
| BLANK TEST        | 0.000    | 14:18 |
| EXTERNAL STANDARD | 0.205    | 14:18 |
| BLANK TEST        | 0.000    | 14:20 |
| EXTERNAL STANDARD | 0.201    | 14:20 |
| BLANK TEST        | 0.000    | 14:21 |

Average = 0.2040  
Std Dev = 0.0017



LINEARITY CHECK: Control Test 6

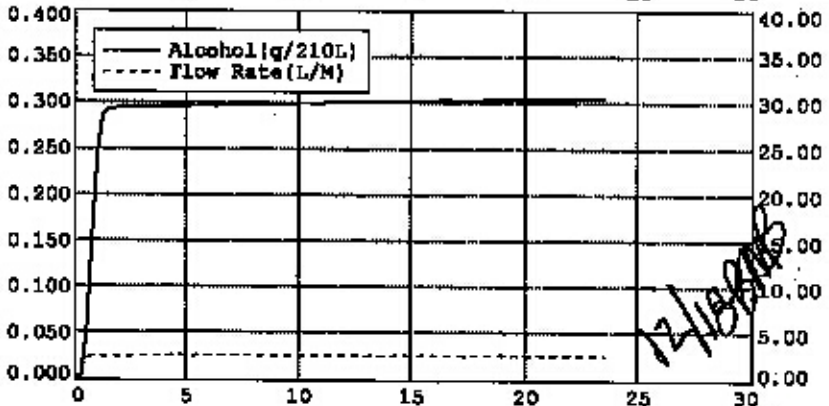
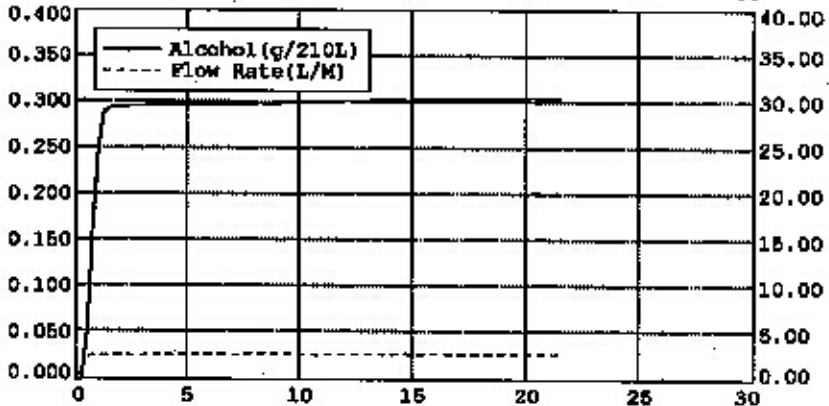
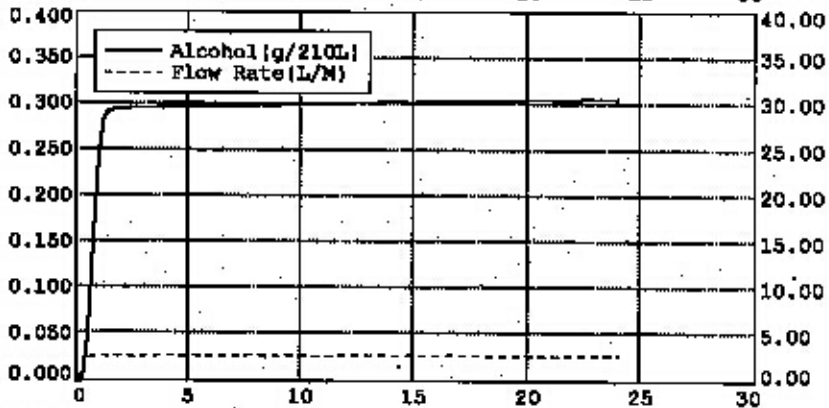
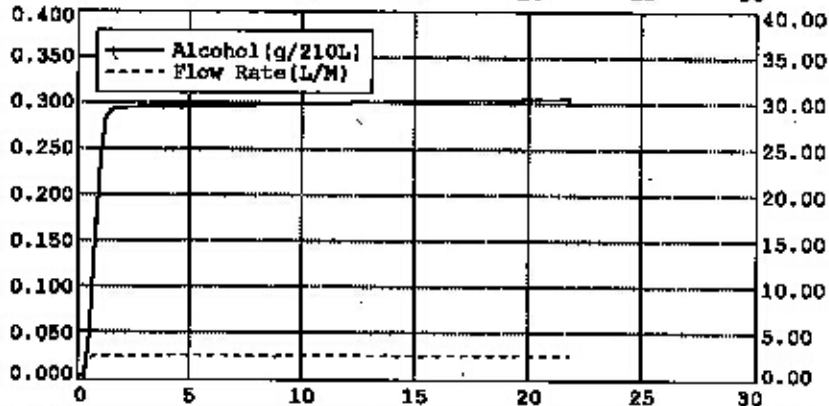
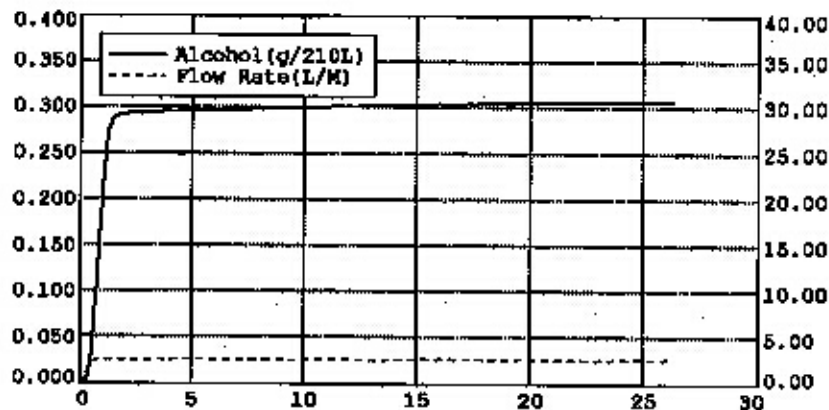
Alaska Department of Public Safety  
 DATAMASTER dat: 100385

Date: 04/27/2011  
 Time: 14:22:57

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.300  
 TARGET AT 29.93: 0.300  
 LOT #: 07411300A1  
 EXPIRATION: 03/01/2013

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 14:24 |
| INTERNAL STANDARD | VERIFIED | 14:24 |
| EXTERNAL STANDARD | 0.308    | 14:24 |
| BLANK TEST        | 0.000    | 14:25 |
| EXTERNAL STANDARD | 0.305    | 14:26 |
| BLANK TEST        | 0.000    | 14:27 |
| EXTERNAL STANDARD | 0.305    | 14:28 |
| BLANK TEST        | 0.000    | 14:29 |
| EXTERNAL STANDARD | 0.305    | 14:29 |
| BLANK TEST        | 0.000    | 14:31 |
| EXTERNAL STANDARD | 0.305    | 14:31 |
| BLANK TEST        | 0.000    | 14:33 |

Average = 0.3056  
 Std Dev = 0.0013



SUBJECT TEST

Alaska Department of Public Safety  
 IDENTIFIER NUM: 100385

Date: 04/27/2011  
 Time: 14:36:47

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

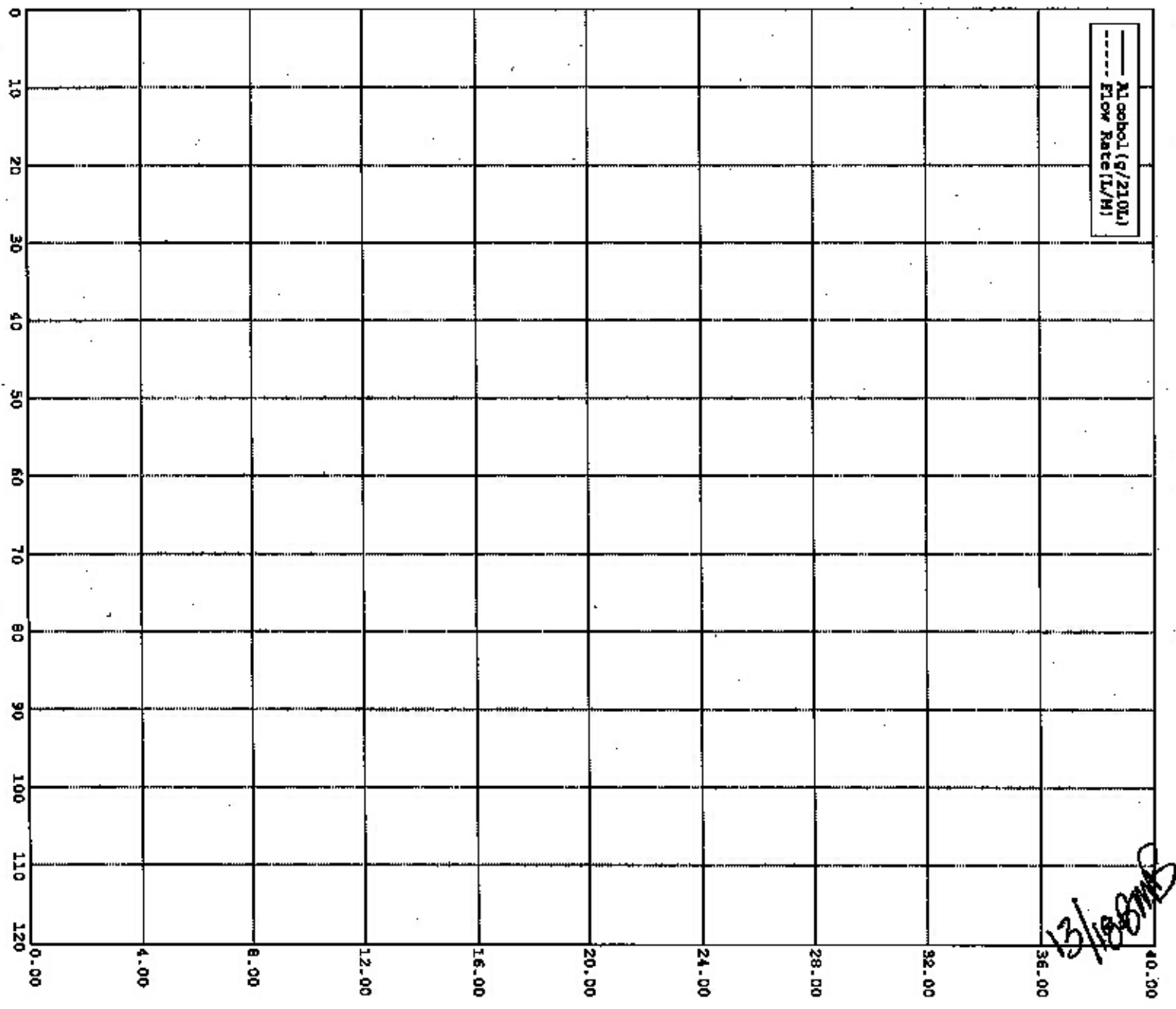
OPERATOR NAME:  
 INCOMPLETE XXXX  
 OPERATOR'S #: XXXX

DEPT/AGENCY:  
 XXXX  
 CASE/REPORT: XXXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 MONITOR: 0.080  
 TANGENT AT 29.94: 0.080  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED     | 14:37 |
|-------------------|------------|-------|
| BLANK TEST        | 0.000      | 14:37 |
| INTERNAL STANDARD | VERIFIED   | 14:38 |
| EXTERNAL STANDARD | 0.081      | 14:38 |
| BLANK TEST        | 0.000      | 14:39 |
| SUBJECT SAMPLE    | INCOMPLETE | 14:41 |

Bm3



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100385

Date: 04/27/2011  
Time: 14:42:58

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

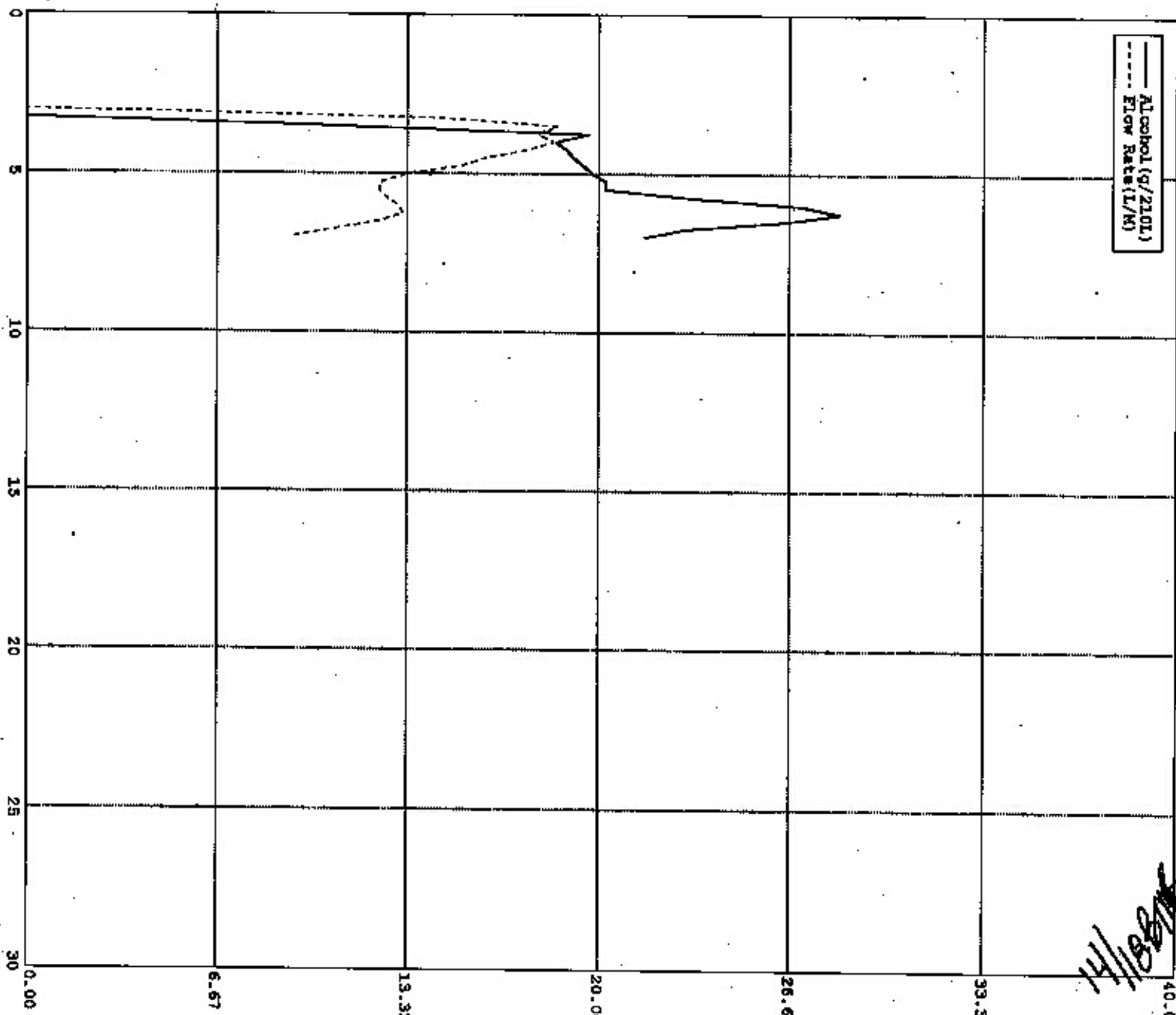
OPERATOR NAME:  
INVALID XXXX  
OPERATOR'S #: XXXX

DEPT/AGENCY:  
KNOX MOTOR ALCOHOL  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.93: 0.080  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED | 14:44 |
|-------------------|--------|-------|
| BLANK TEST        | 0.000  | 14:44 |
| INTERNAL STANDARD | 0.081  | 14:44 |
| EXTERNAL STANDARD | 0.000  | 14:45 |
| BLANK TEST        | 0.000  | 14:45 |
| SUBJECT SAMPLE    | 19.114 | 14:45 |

*BMFB*



*11/11/11*

SUBJECT TEST

Alaska Department of Public Safety  
 LABORATORY DIST: 100385

Date: 04/27/2011  
 Time: 14:49:09

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTERFERE

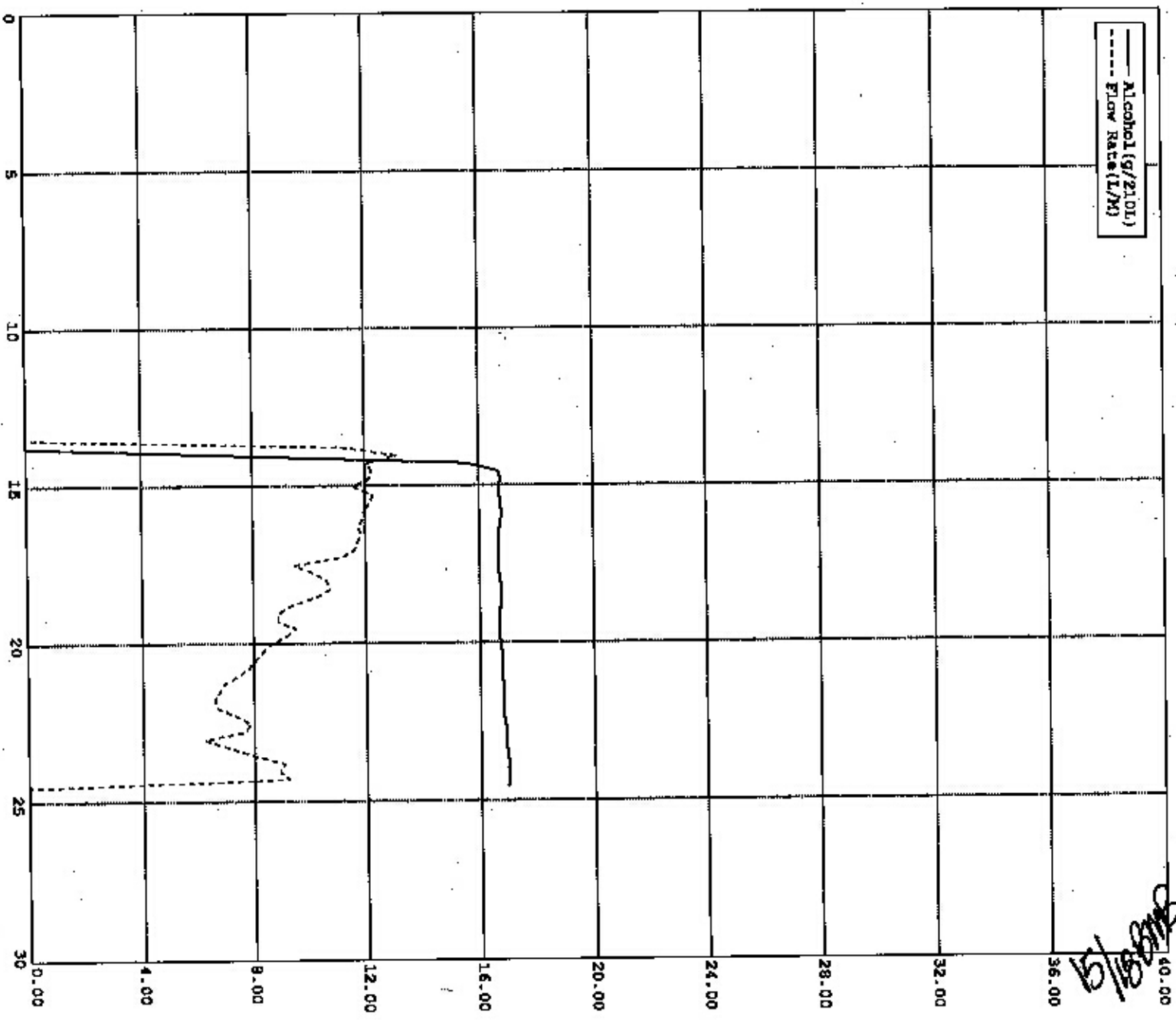
OPERATOR NAME:  
 ETANWOL AND ACEWONE  
 OPERATOR'S #: XXXX

DEPT/AGENCY:  
 XXXX  
 CASE/REPORT: XXXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.94: 0.080  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED       | 14:50 |
|-------------------|--------------|-------|
| BLANK TEST        | 0.000        | 14:50 |
| INTERNAL STANDARD | VERIFIED     | 14:50 |
| EXTERNAL STANDARD | 0.081        | 14:50 |
| BLANK TEST        | 0.000        | 14:51 |
| SUBJECT SAMPLE    | INTERFERENCE | 14:52 |

*Brandt*



*Brandt*  
 5/1/2011

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dnt: 100385

Date: 04/27/2011  
 Time: 14:56:26

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTERFERE

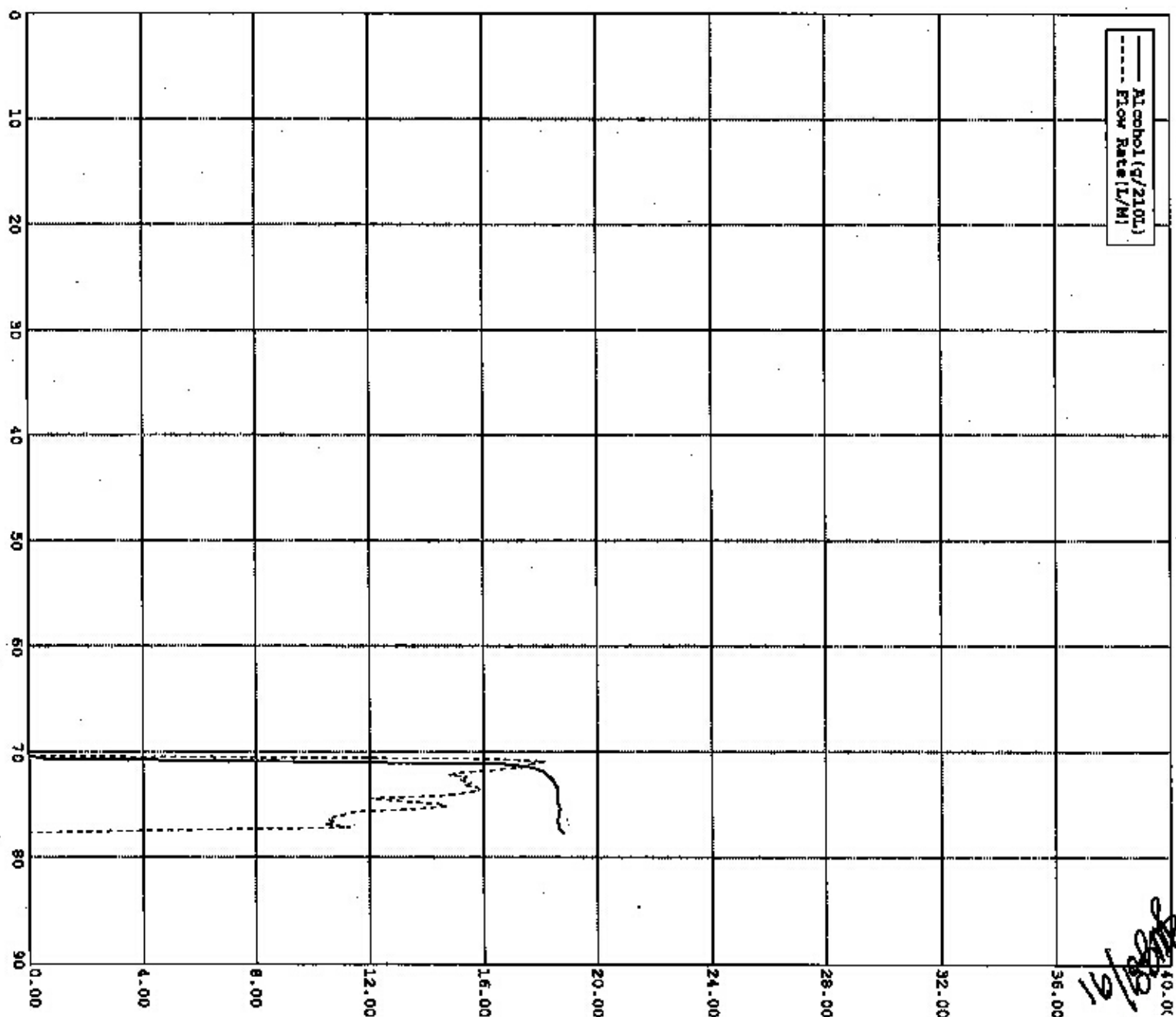
OPERATOR NAME:  
 BERNARD AND ISOROHANOK  
 OPERATOR'S #: XXXX

DEPT/AGENCY:  
 XXXX  
 CASE/REPORT: XXXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.94: 0.080  
 LCP #: 02511080A3  
 EXPIRATION: 02/01/2013

|                   |              |       |
|-------------------|--------------|-------|
| DIAGNOSTIC CHECK  | PASSED       | 14:57 |
| BLANK TEST        | 0.000        | 14:57 |
| INTERNAL STANDARD | VERIFIED     | 14:57 |
| EXTERNAL STANDARD | 0.081        | 14:58 |
| BLANK TEST        | 0.000        | 14:58 |
| SUBJECT SAMPLE    | INTERFERENCE | 15:00 |

*BNB*



*BNB*  
 4/29/11



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmtc: 100385

Date: 04/27/2011  
Time: 15:02:39

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
XXXX X XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.94: 0.080  
LOT #: 02511090A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK  
BLANK TEST PASSED 15:06  
INTERNAL STANDARD VERIFIED 15:07  
EXTERNAL STANDARD 0.080 15:07

RFI Detected

*Handwritten signature and date*  
04/29/11

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100385

Date: 04/27/2011  
Time: 15:22:51

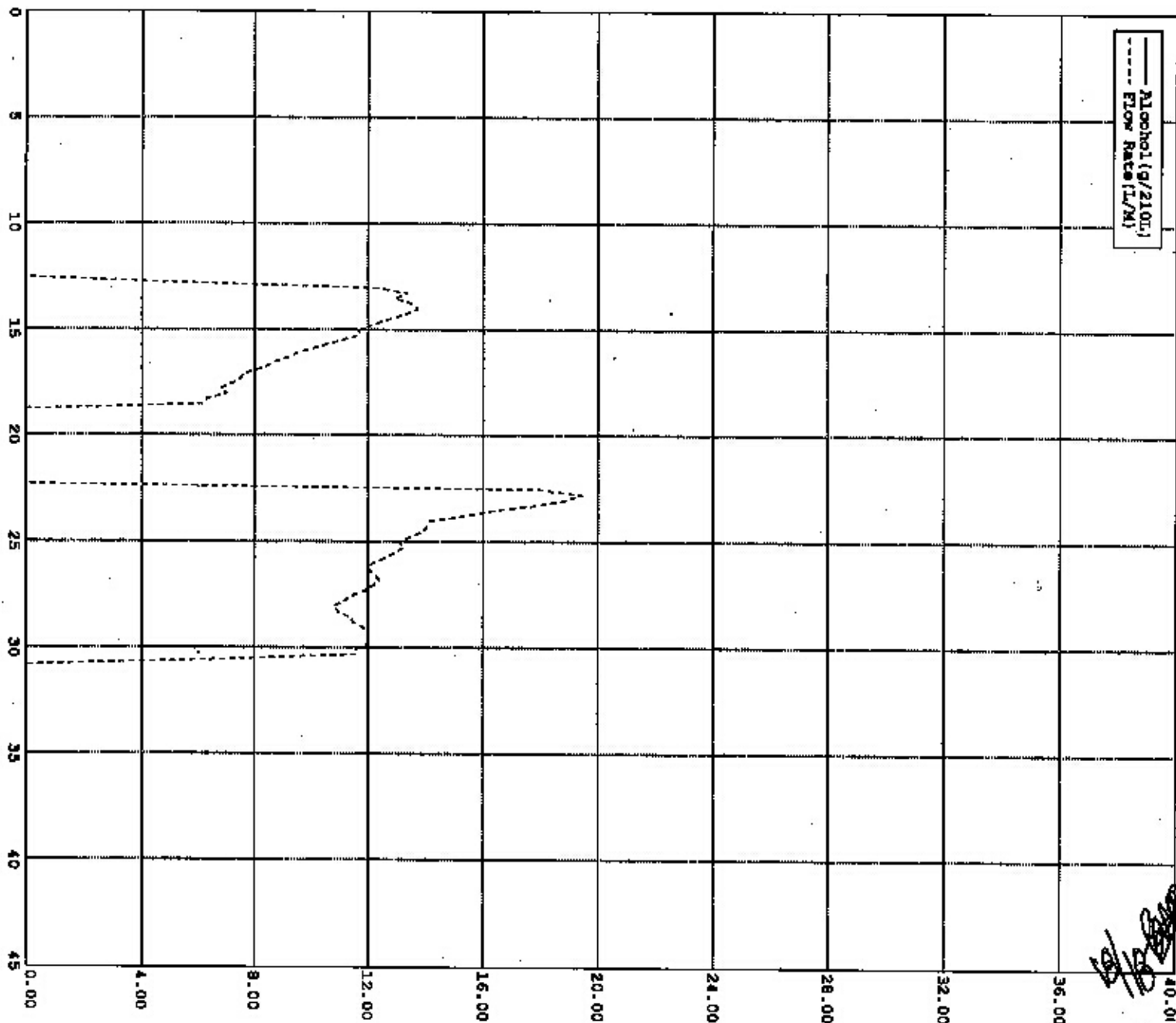
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
BRANDI M BARRETT  
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.92: 0.080  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

| DIAGNOSTIC CHECK  | PASSED   | 15:23 |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 15:23 |
| INTERNAL STANDARD | VERIFIED | 15:24 |
| EXTERNAL STANDARD | 0.080    | 15:24 |
| BLANK TEST        | 0.000    | 15:25 |
| SUBJECT SAMPLE    | 0.000    | 15:25 |
| BLANK TEST        | 0.000    | 15:26 |
| EXTERNAL STANDARD | 0.081    | 15:26 |
| BLANK TEST        | 0.000    | 15:27 |



*Handwritten signature and date: 04/27/11*

Final page for report

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7/3/2014