

# Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

Issued: 7/10/2015  
Effective: 7/10/2015

Version: DMCEF 2015 R1  
Status: Active

Instrument S/N 100395 Analyst C. O'Bryant Start Date 8/5/15

1. Diagnostic Test (attached)  Internal Standard value  $\leq 3.00\%$  Yes
1. Voltage Checks
- a. Adjust voltages, if needed 
    - i. Lamp (2.6V Maximum)
    - ii. Bias
    - 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 1.6 L (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf ILMO Lot 02915020A2 Exp 3/5/15<sup>cor</sup>
- ii. 0.040g/210L Mnf ILMO Lot 02915040A3 Exp 3/5/17
- iii. 0.080g/210L Mnf ILMO Lot 09214080A3 Exp 5/1/16
- iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17
- v. 0.200g/210L Mnf Guth Lot 13220 Exp 8/5/15
  - 1. Simulator S/N DE4162 Date Calibrated 1/19/15
- vi. 0.300g/210L Mnf Guth Lot 14270 Exp 2/2/10
  - 1. Simulator S/N DE6267 Date Calibrated 1/20/15

5. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference
- d. Exceeded attempts

- i. Acetone - Mnf Guth Lot 14110 Level 0.100 Exp 5/1/16
  - 1. Simulator S/N DE4163 Date Calibrated 1/19/15
- ii. Isopropanol - Mnf Guth Lot 15050 Level 0.100 Exp 3/9/17
  - 1. Simulator S/N SD1176 Date Calibrated 1/20/15
- iii. Negative Control - Mnf Guth Lot 15050 Level 0.100 Exp 3/9/17
  - 1. Simulator S/N DE4178 Date Calibrated 1/19/15

e. RFI

6. Verify stylus is calibrated

7. Reset Options

8. Clear Memory

9. Verification of Calibration

10. Non-Drinking Subject Test (attached)

11. Upload

13. Remove tank prior to shut down

End Date 8/6/15

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100395  
-----

Date: 08/05/2015  
Time: 09:27:16

VERSIONS

DMT: 3.01  
PIC: 3.02  
Modem: 2.6  
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 48.1°C PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.83 V PASSED  
(1.10 V - 2.56 V)  
Cooler Voltage = 1.69 V PASSED  
(1.03 V - 2.41 V)  
Bias Voltage = 79 V PASSED  
(47 V - 111 V)  
Chopper Freq = 535 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.754 L/M PASSED  
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED  
(0.003 V <= 0.010 V)  
PUMP OFF PASSED  
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.091 0.58% (0.00% - 4.00%) PASSED

Technician Screen

-----  
DATAMASTER dmt: 100395  
-----

Date: 08/05/2015  
Time: 9:54 AM

Temperatures (°C)  
Sample Cell: 49.3°C  
Breath Tube: 48.1°C

Current Barometer 29.7 in  
Volume (Ltr) 1.44

Settings  
Lamp: 1.83 V  
Bias: 80 V  
Cooler: 1.69 V  
Chopper: 534 Hz

Voltages (V)  
Flow: 1.04 V  
Detector: 0.051 V

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100395  
-----

Date: 05/01/2015  
Time: 10:57:50

OPERATOR NAME:  
CHARLES FOSTER  
CERTIFICATE #: 7734

Ca = 0.1000  
CAL = 0.974938    0.800 <= CAL < 1.200  
b1 = 0.0007    0.0000 <= b1 < 0.0040  
b2 = 0.0063    0.0010 <= b2 < 0.0100  
b3 = 0.0003    0.0000 <= b3 < 0.0040  
Xq = 0.0901    0.0500 <= Xq < 0.2000  
a21 = 1.171322    1.050 <= a21 < 1.300  
a31 = 0.371440    0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100395

Date: 08/05/2015  
Time: 10:22:31

SUBJECT NAME:  
TEST TEST  
LICENSE #: VOLUME TEST

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

DEPT/AGENCY:  
AAA1

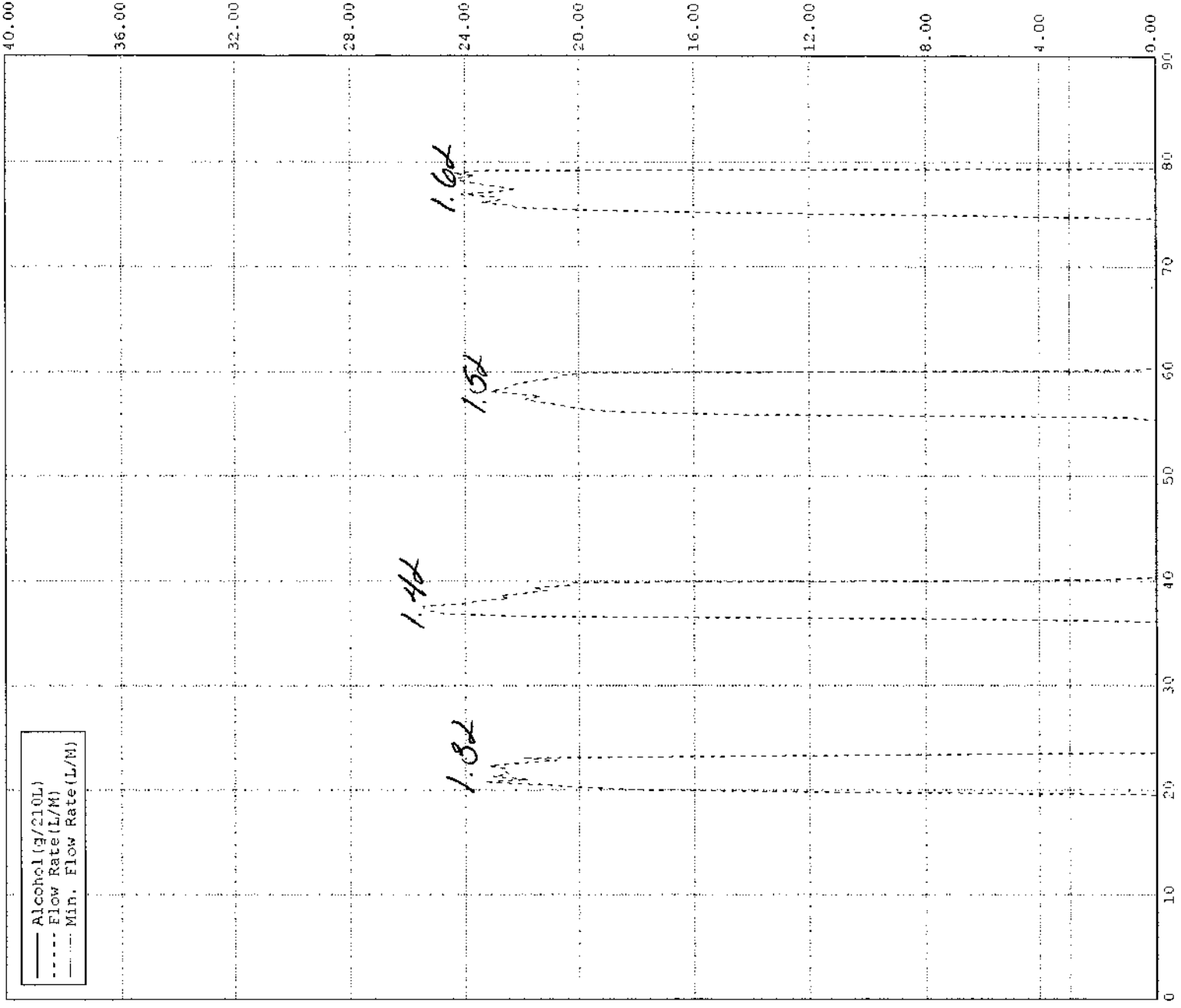
CASE/REPORT: 15-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.65: 0.079  
LOT #: 09214080A3  
EXPIRATION: 05/01/2016

| DIAGNOSTIC CHECK           | PASSED   | 10:23 |
|----------------------------|----------|-------|
| BLANK TEST                 | 0.000    | 10:23 |
| INTERNAL STANDARD          | VERIFIED | 10:23 |
| EXTERNAL STANDARD          | 0.078    | 10:24 |
| BLANK TEST                 | 0.000    | 10:24 |
| SUBJECT SAMPLE (Vol=1.63L) | 0.000    | 10:26 |
| BLANK TEST                 | 0.000    | 10:27 |
| EXTERNAL STANDARD          | 0.078    | 10:27 |
| BLANK TEST                 | 0.000    | 10:28 |

*CSB*



LINEARITY CHECK

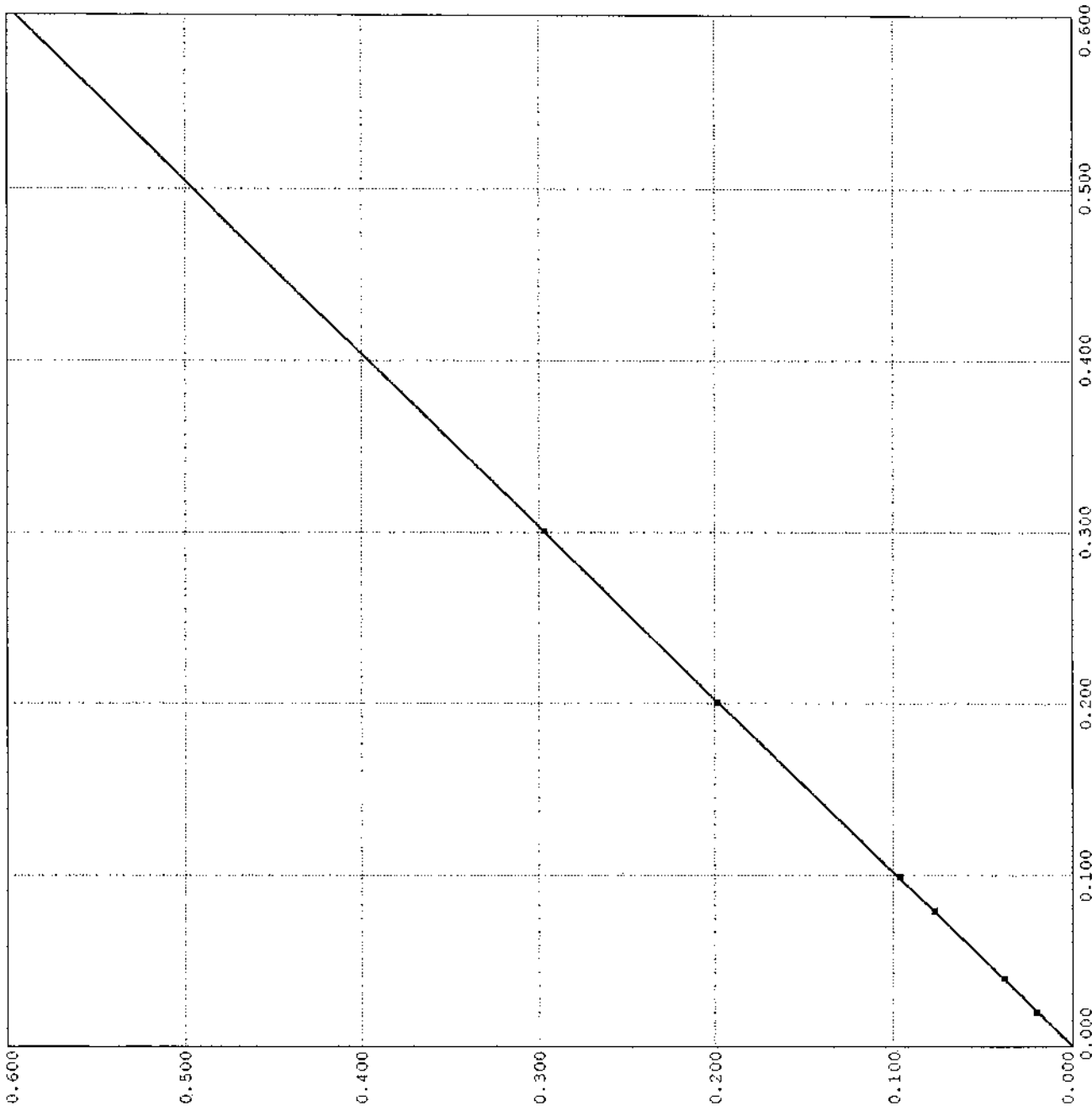
Alaska Department of Public Safety  
 DATAMASTER dmt: 100395

Date: 08/05/2015  
 Time: 10:37:31

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

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.020  | 0.0208  | 0.0004    |
| 0.040  | 0.0392  | 0.0004    |
| 0.079  | 0.0780  | 0.0000    |
| 0.099  | 0.0972  | 0.0004    |
| 0.200  | 0.1994  | 0.0005    |
| 0.300  | 0.2976  | 0.0005    |

SLOPE = 0.993019  
 R<sup>2</sup> = 0.999943



*OB*

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100395

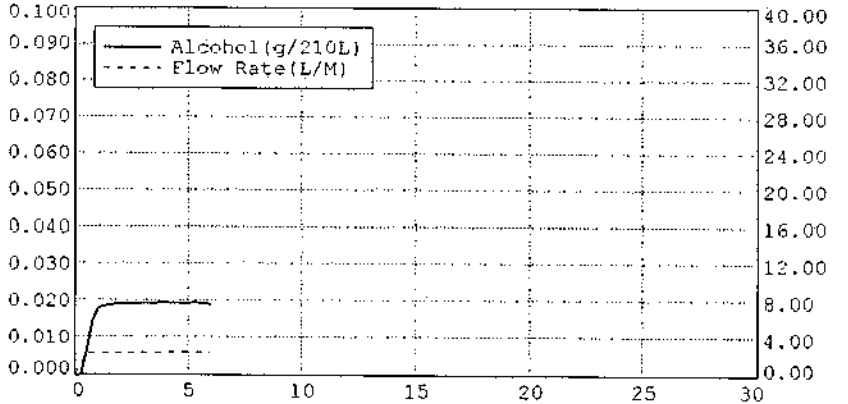
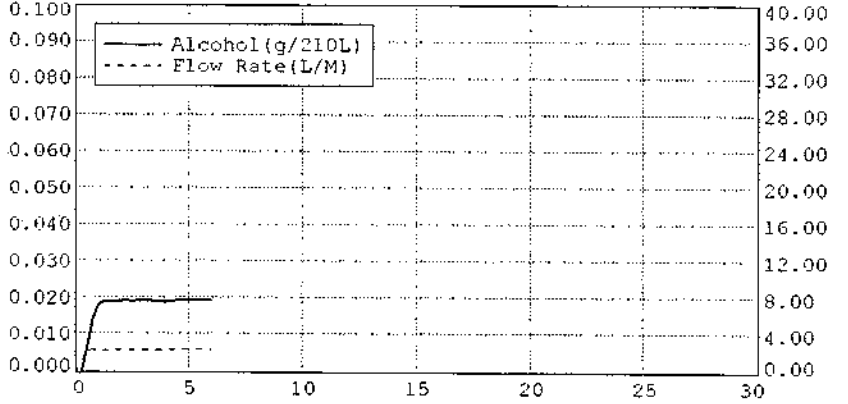
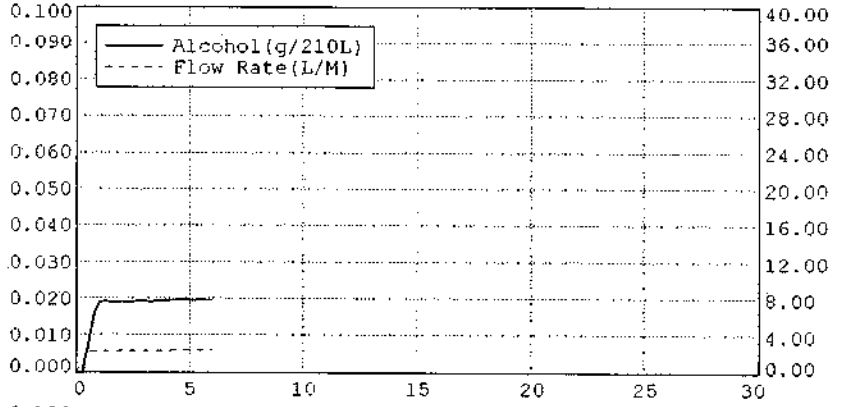
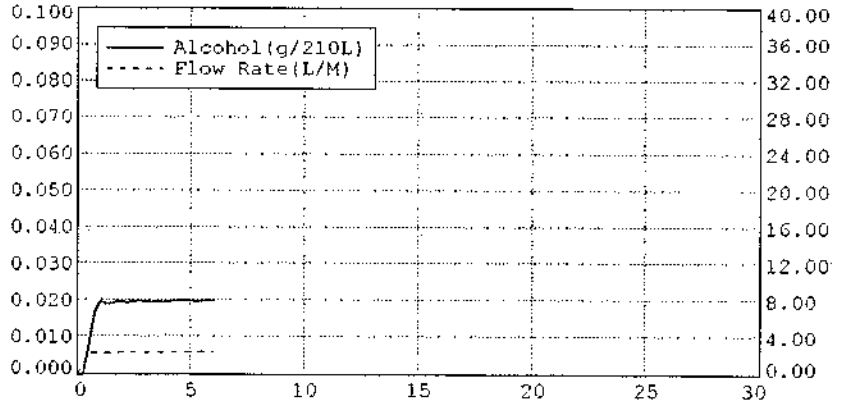
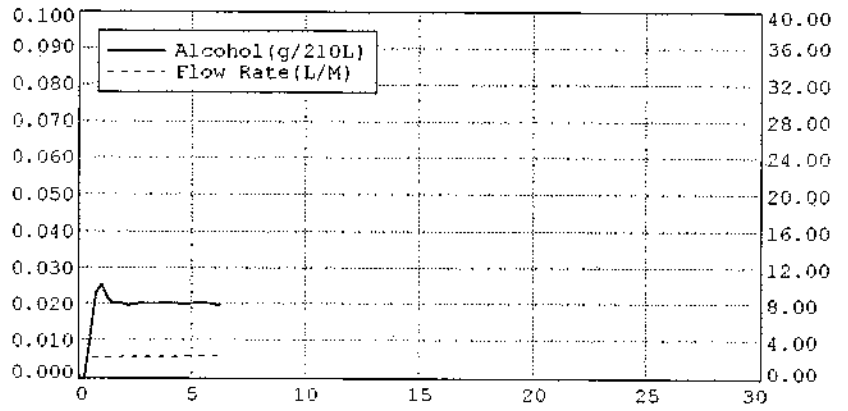
Date: 08/05/2015  
 Time: 10:37:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.65: 0.020  
 LOT #: 02915020A2  
 EXPIRATION: 03/05/2017  
 TANK PRESSURE: 595 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:45 |
| INTERNAL STANDARD | VERIFIED | 10:45 |
| EXTERNAL STANDARD | 0.021    | 10:45 |
| BLANK TEST        | 0.000    | 10:46 |
| EXTERNAL STANDARD | 0.021    | 10:46 |
| BLANK TEST        | 0.000    | 10:47 |
| EXTERNAL STANDARD | 0.021    | 10:47 |
| BLANK TEST        | 0.000    | 10:48 |
| EXTERNAL STANDARD | 0.021    | 10:48 |
| BLANK TEST        | 0.000    | 10:49 |
| EXTERNAL STANDARD | 0.020    | 10:49 |
| BLANK TEST        | 0.000    | 10:50 |

Average = 0.0208  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100395

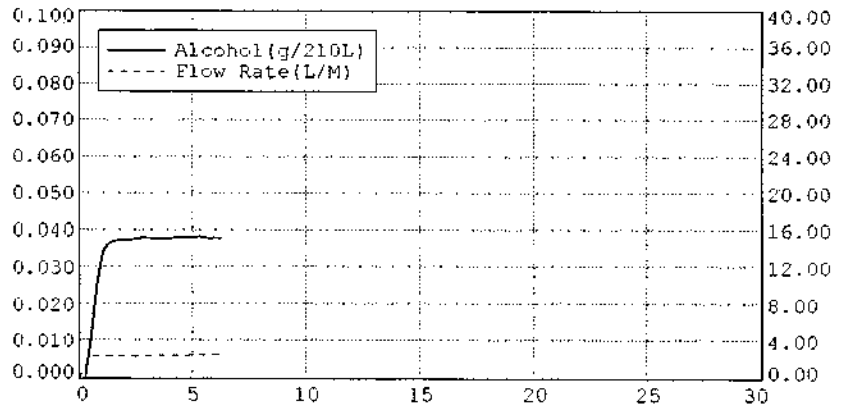
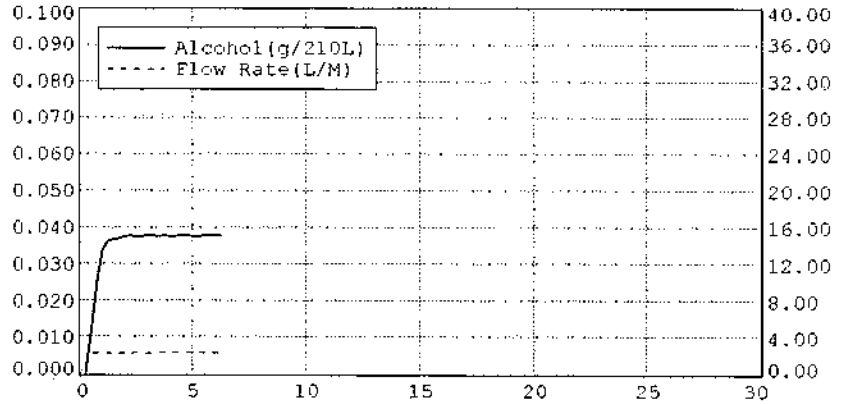
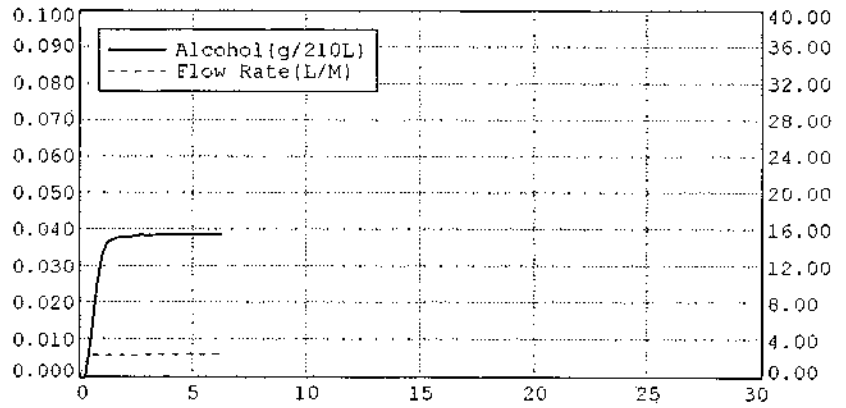
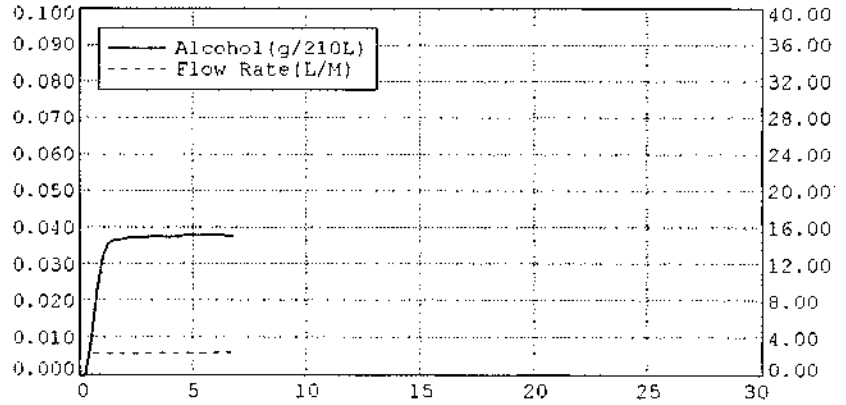
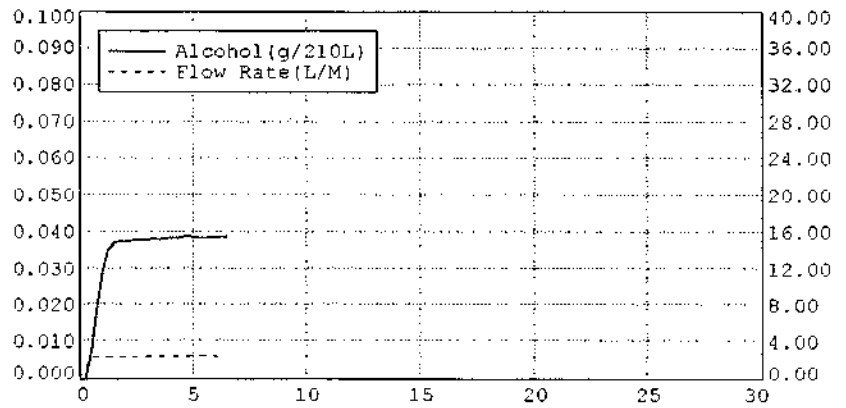
Date: 08/05/2015  
 Time: 10:51:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
 TARGET AT 29.66: 0.040  
 LOT #: 02915040A3  
 EXPIRATION: 03/05/2017  
 TANK PRESSURE: 699 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 10:54 |
| INTERNAL STANDARD | VERIFIED | 10:54 |
| EXTERNAL STANDARD | 0.039    | 10:54 |
| BLANK TEST        | 0.000    | 10:55 |
| EXTERNAL STANDARD | 0.039    | 10:55 |
| BLANK TEST        | 0.000    | 10:56 |
| EXTERNAL STANDARD | 0.040    | 10:56 |
| BLANK TEST        | 0.000    | 10:57 |
| EXTERNAL STANDARD | 0.039    | 10:57 |
| BLANK TEST        | 0.000    | 10:58 |
| EXTERNAL STANDARD | 0.039    | 10:58 |
| BLANK TEST        | 0.000    | 10:59 |

Average = 0.0392  
 Std Dev = 0.0004





LINEARITY CHECK: Control Test 3

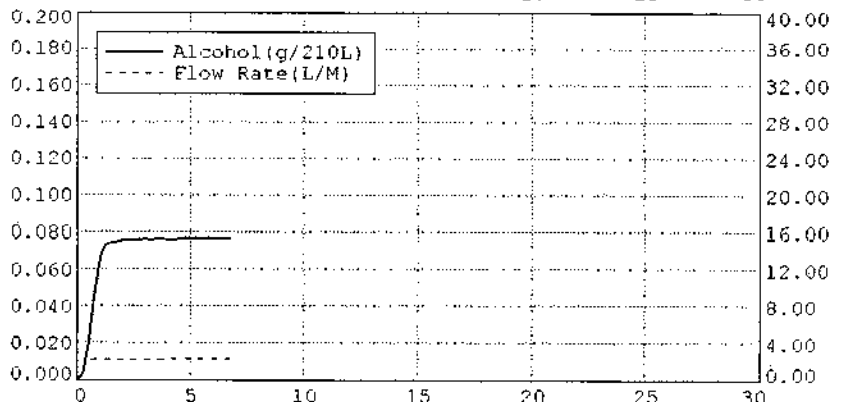
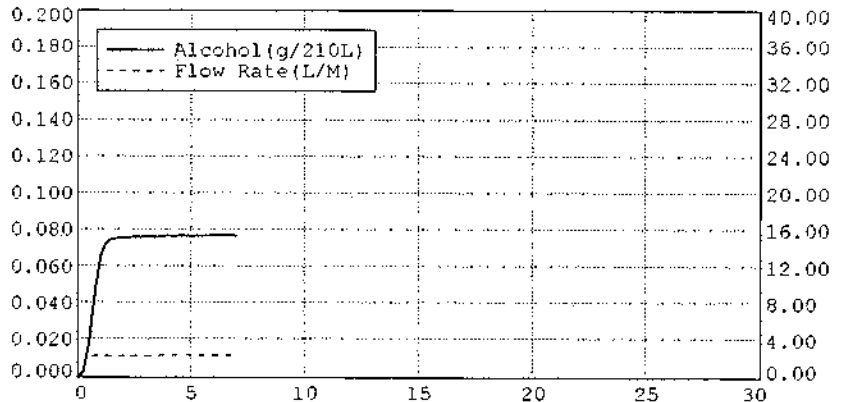
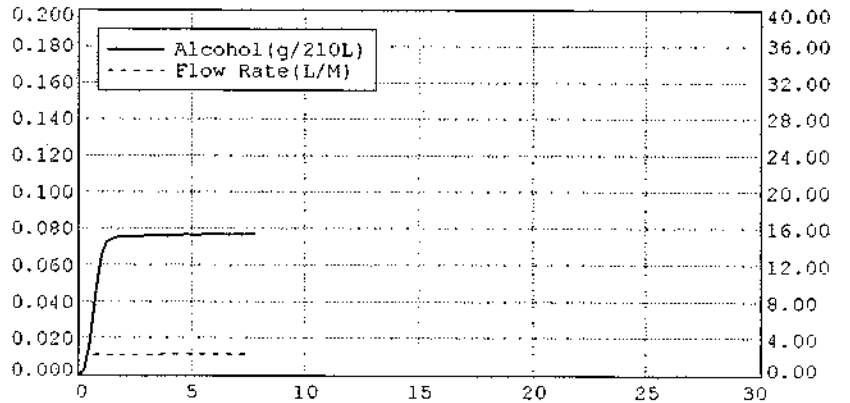
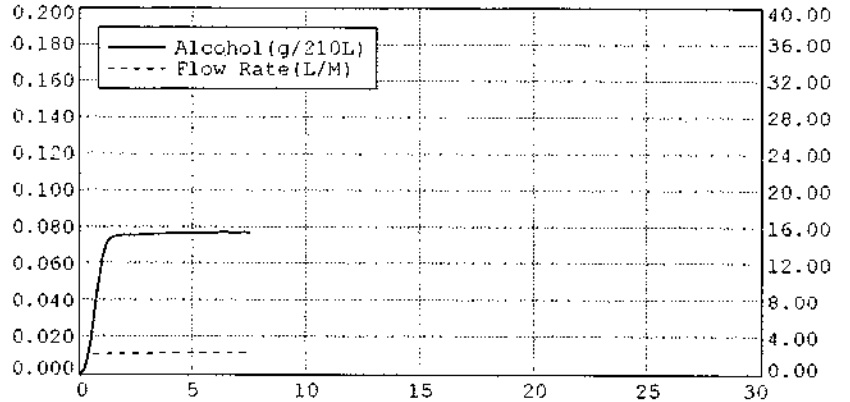
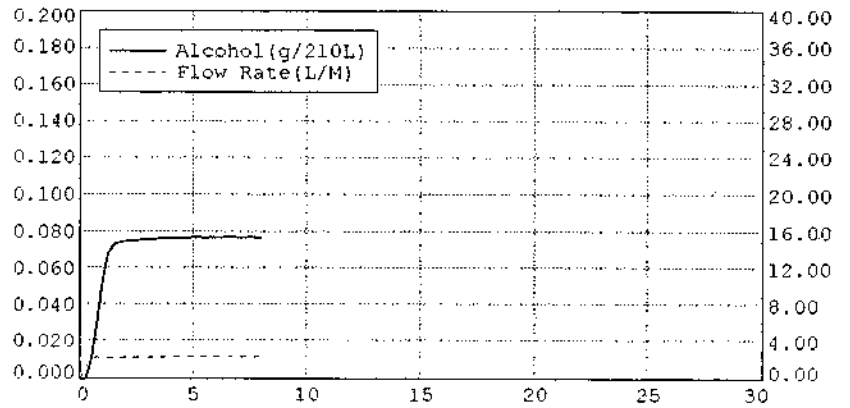
Alaska Department of Public Safety  
 DATAMASTER dmt: 100395

Date: 08/05/2015  
 Time: 11:00:01

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.66: 0.079  
 LOT #: 09214080A3  
 EXPIRATION: 05/01/2016  
 TANK PRESSURE: 499 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:02 |
| INTERNAL STANDARD | VERIFIED | 11:02 |
| EXTERNAL STANDARD | 0.078    | 11:03 |
| BLANK TEST        | 0.000    | 11:03 |
| EXTERNAL STANDARD | 0.078    | 11:04 |
| BLANK TEST        | 0.000    | 11:05 |
| EXTERNAL STANDARD | 0.078    | 11:05 |
| BLANK TEST        | 0.000    | 11:06 |
| EXTERNAL STANDARD | 0.078    | 11:06 |
| BLANK TEST        | 0.000    | 11:07 |
| EXTERNAL STANDARD | 0.078    | 11:07 |
| BLANK TEST        | 0.000    | 11:08 |

Average = 0.0780  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

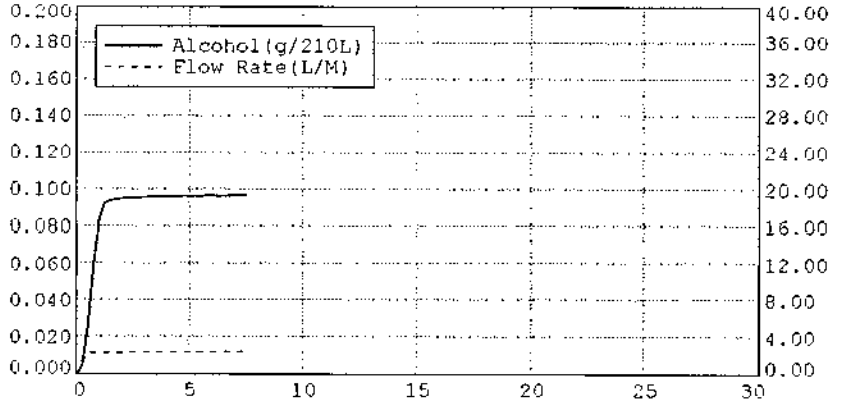
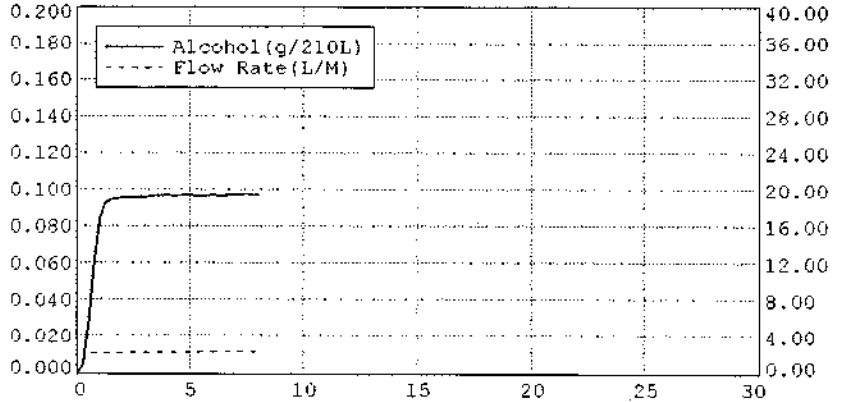
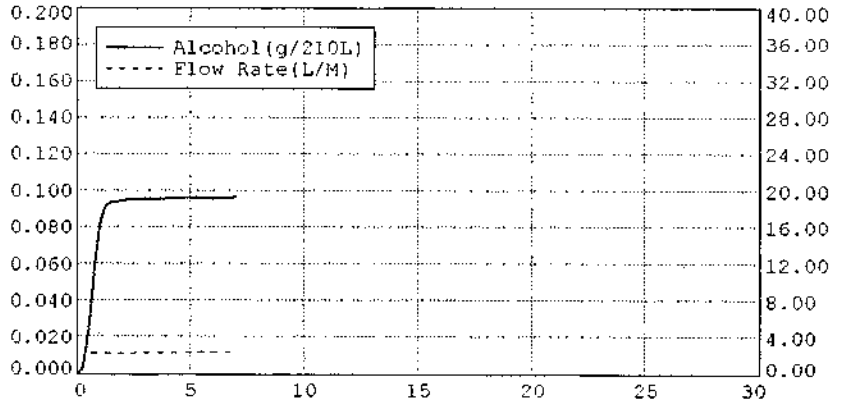
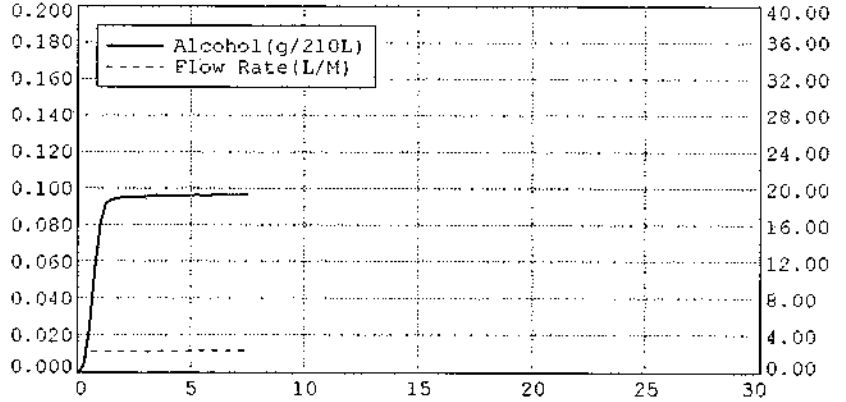
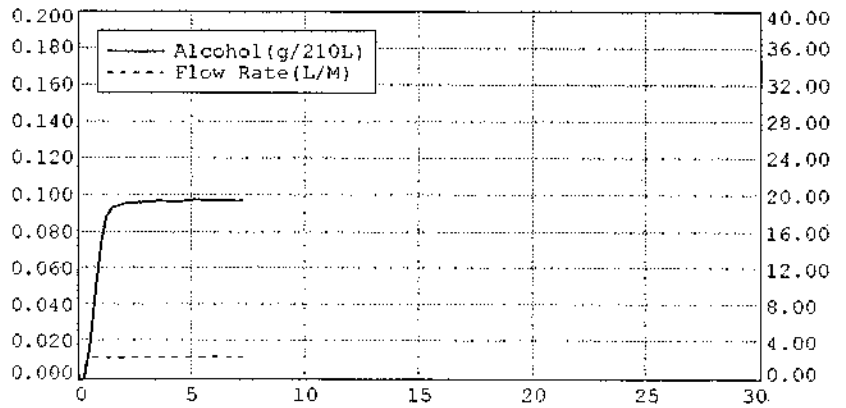
Alaska Department of Public Safety  
 DATAMASTER dmt: 100395

Date: 08/05/2015  
 Time: 11:09:21

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.100  
 TARGET AT 29.65: 0.099  
 LOT #: 02915100A1  
 EXPIRATION: 03/05/2017  
 TANK PRESSURE: 560 psi

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:12 |
| INTERNAL STANDARD | VERIFIED | 11:12 |
| EXTERNAL STANDARD | 0.097    | 11:13 |
| BLANK TEST        | 0.000    | 11:14 |
| EXTERNAL STANDARD | 0.097    | 11:14 |
| BLANK TEST        | 0.000    | 11:15 |
| EXTERNAL STANDARD | 0.097    | 11:15 |
| BLANK TEST        | 0.000    | 11:16 |
| EXTERNAL STANDARD | 0.098    | 11:16 |
| BLANK TEST        | 0.000    | 11:17 |
| EXTERNAL STANDARD | 0.097    | 11:17 |
| BLANK TEST        | 0.000    | 11:18 |

Average = 0.0972  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

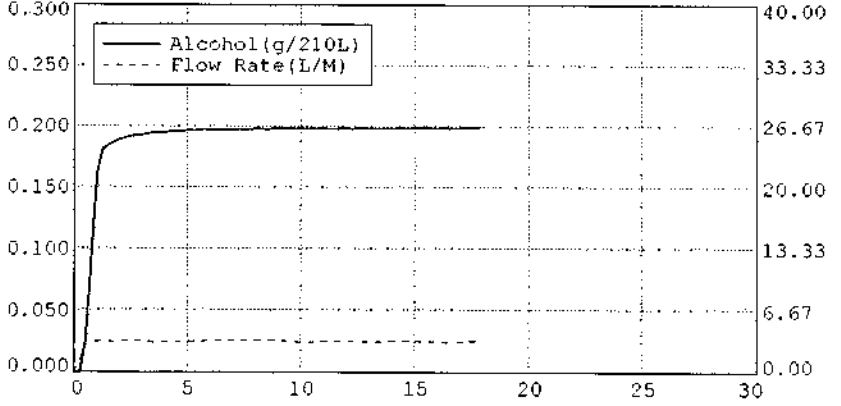
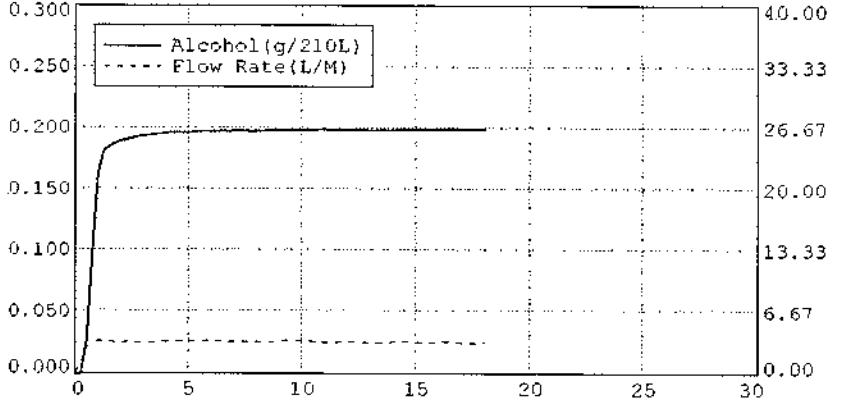
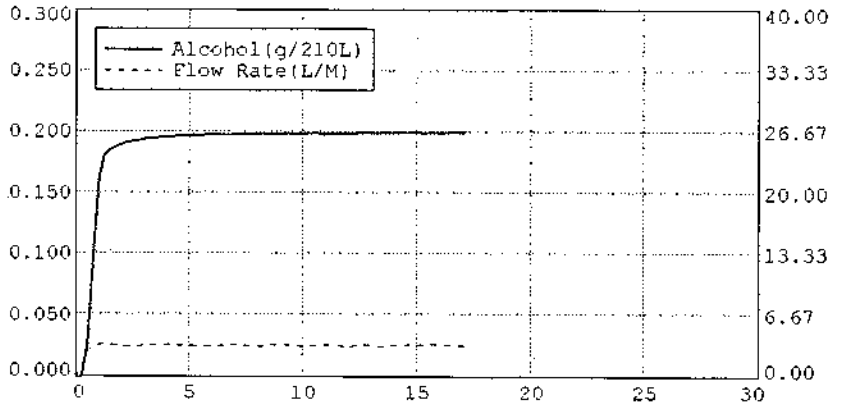
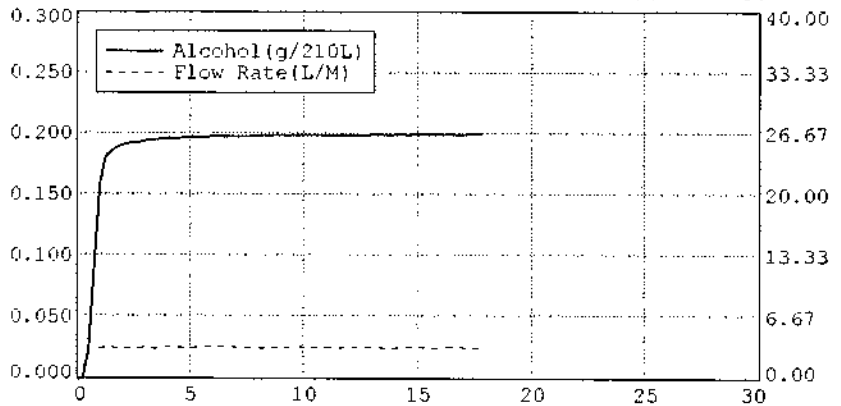
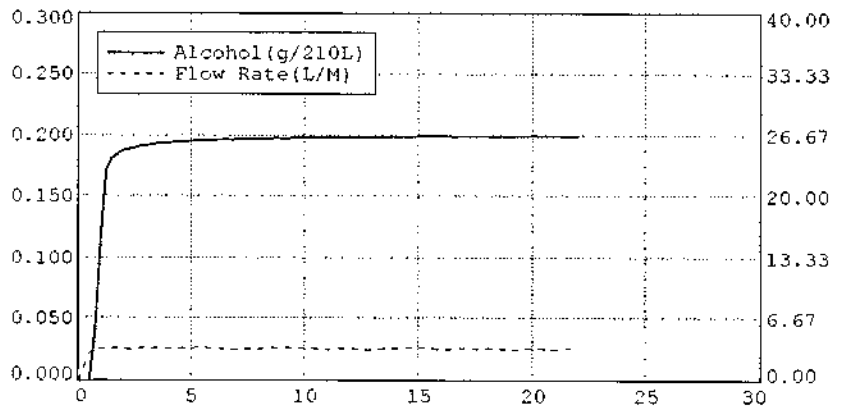
Alaska Department of Public Safety  
 DATAMASTER dmt: 100395

Date: 08/05/2015  
 Time: 11:18:46

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.200  
 LOT #: 13220  
 EXPIRATION: 08/05/2015

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:20 |
| INTERNAL STANDARD | VERIFIED | 11:21 |
| EXTERNAL STANDARD | 0.200    | 11:21 |
| BLANK TEST        | 0.000    | 11:22 |
| EXTERNAL STANDARD | 0.200    | 11:22 |
| BLANK TEST        | 0.000    | 11:23 |
| EXTERNAL STANDARD | 0.199    | 11:24 |
| BLANK TEST        | 0.000    | 11:25 |
| EXTERNAL STANDARD | 0.199    | 11:25 |
| BLANK TEST        | 0.000    | 11:26 |
| EXTERNAL STANDARD | 0.199    | 11:26 |
| BLANK TEST        | 0.000    | 11:27 |

Average = 0.1994  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
 DATAMASTER dmt: 100395

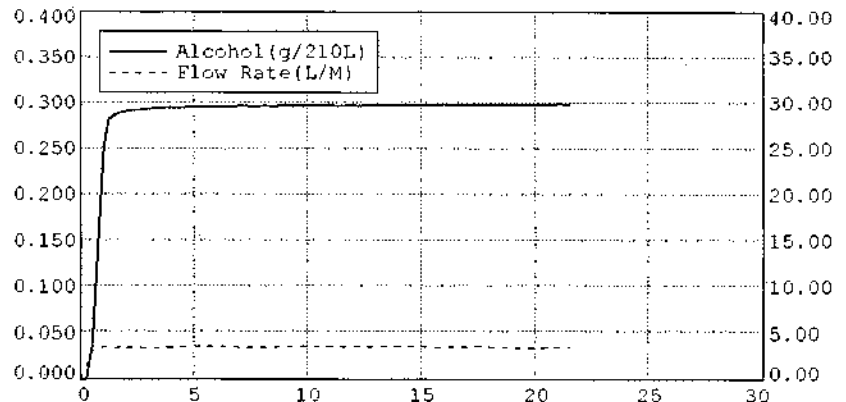
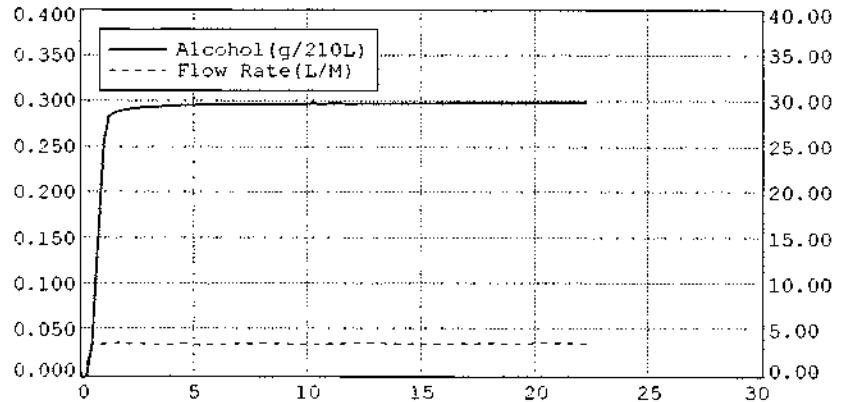
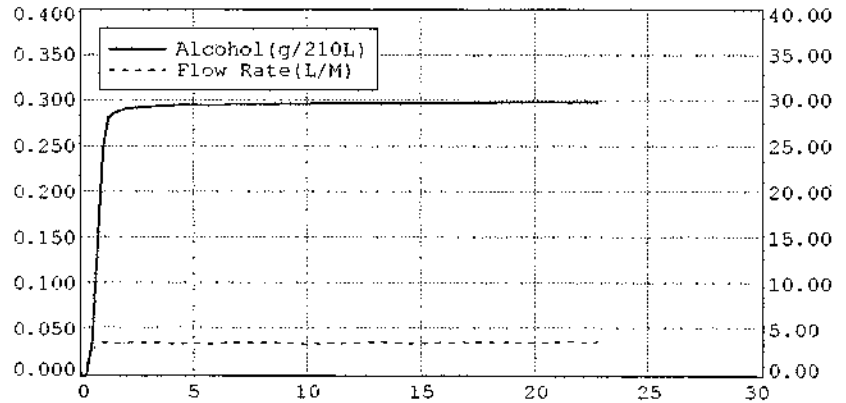
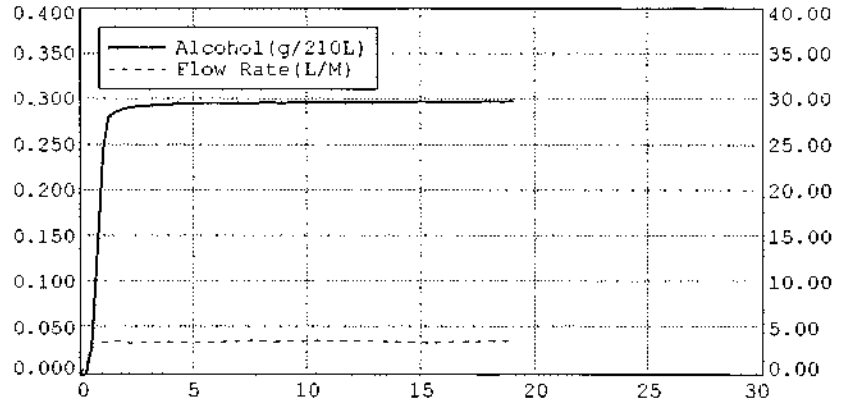
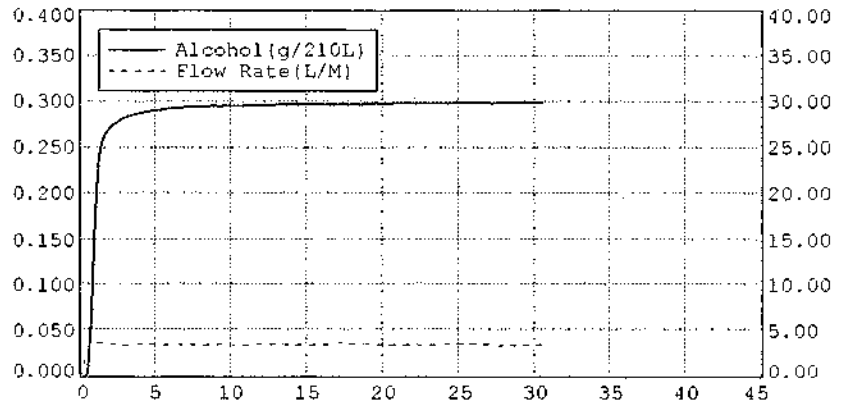
Date: 08/05/2015  
 Time: 11:34:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
 LOT #: 14270  
 EXPIRATION: 12/02/2016

|                   |          |       |
|-------------------|----------|-------|
| BLANK TEST        | 0.000    | 11:35 |
| INTERNAL STANDARD | VERIFIED | 11:35 |
| EXTERNAL STANDARD | 0.298    | 11:36 |
| BLANK TEST        | 0.000    | 11:37 |
| EXTERNAL STANDARD | 0.297    | 11:37 |
| BLANK TEST        | 0.000    | 11:38 |
| EXTERNAL STANDARD | 0.297    | 11:39 |
| BLANK TEST        | 0.000    | 11:40 |
| EXTERNAL STANDARD | 0.298    | 11:40 |
| BLANK TEST        | 0.000    | 11:41 |
| EXTERNAL STANDARD | 0.298    | 11:42 |
| BLANK TEST        | 0.000    | 11:42 |

Average = 0.2976  
 Std Dev = 0.0005



SUBJECT TEST

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100395  
-----

Date: 08/05/2015  
Time: 11:48:38

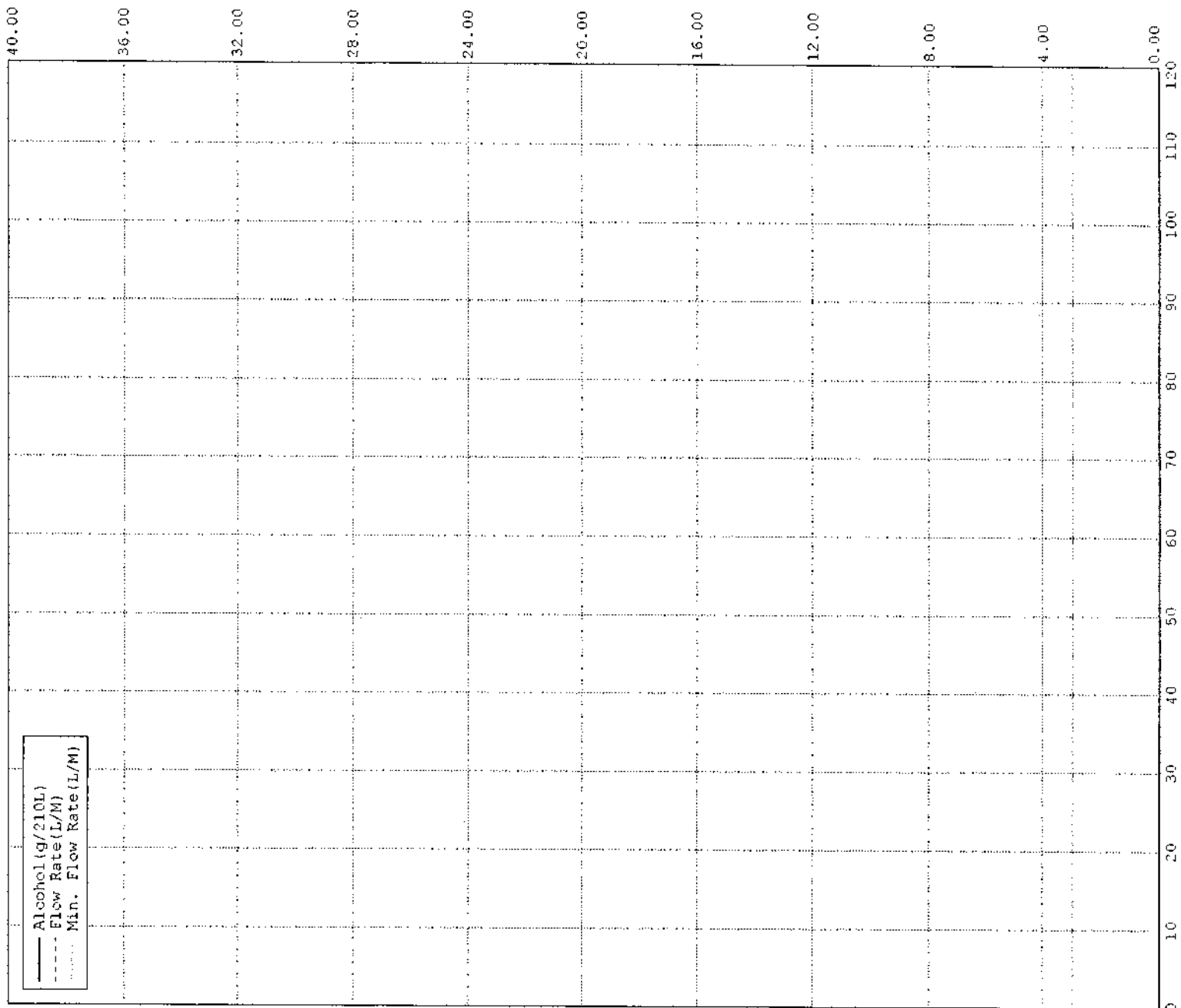
SUBJECT NAME:  
TEST TEST  
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:  
AAA1  
CASE/REPORT: 15-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.65: 0.079  
LOT #: 09214080A3  
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK  
BLANK TEST PASSED 11:52  
INTERNAL STANDARD VERIFIED 11:52  
EXTERNAL STANDARD 0.078 11:52  
BLANK TEST 0.000 11:53  
SUBJECT SAMPLE INCOMPLETE 11:55



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100395

Date: 08/06/2015

Time: 09:20:07

SUBJECT NAME:

TEST TEST

LICENSE #: INVALID

OPERATOR NAME:

COLLEEN S OBRVANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 15-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.65: 0.079

LOT #: 09214080A3

EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK

BLANK TEST

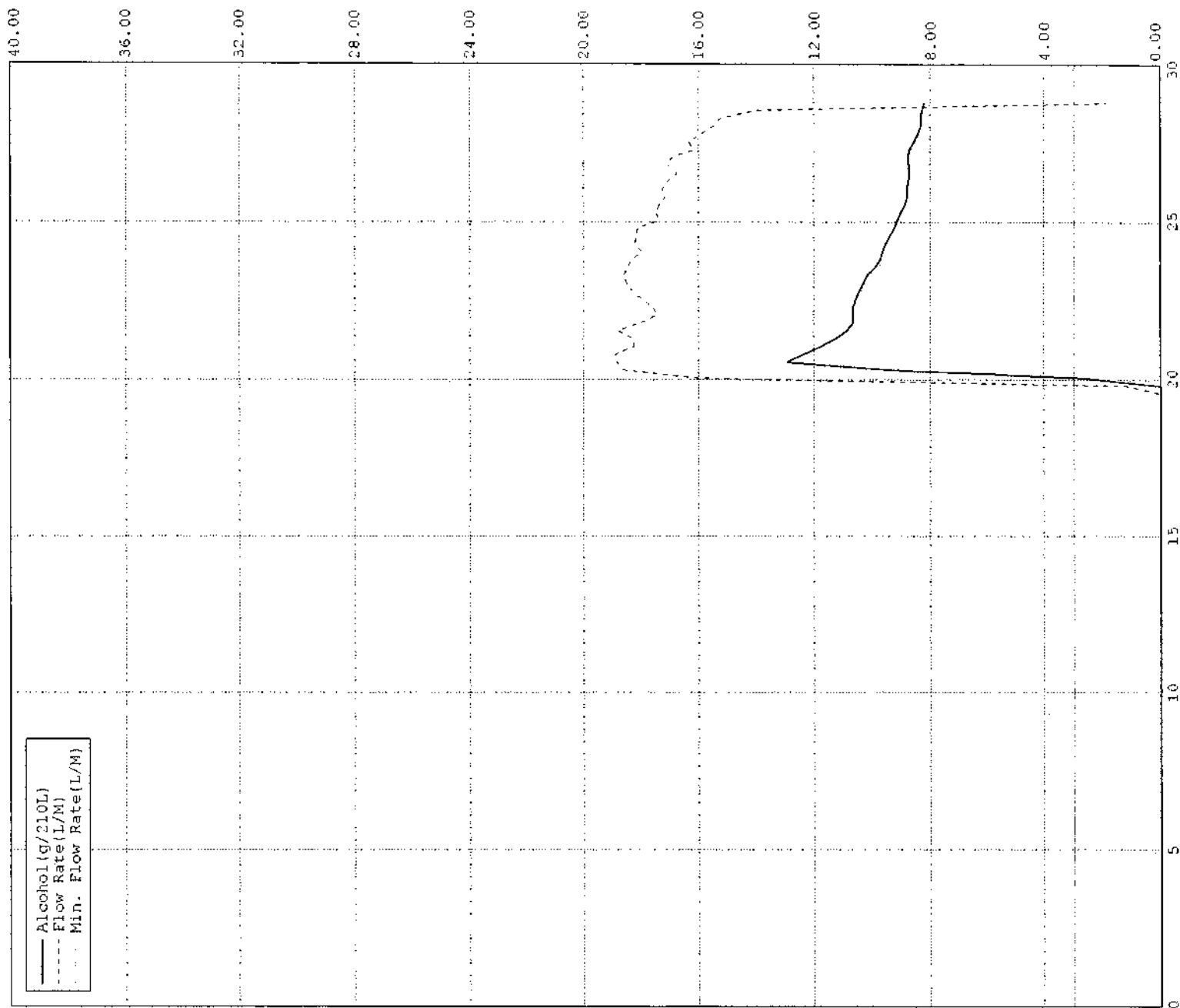
INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 09:21  
0.000 09:21  
VERIFIED 09:21  
0.077 09:21  
0.000 09:22  
INVALID 09:23



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100395

Date: 08/06/2015  
Time: 09:28:49

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:

AAA  
CASE/REPORT: 15-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

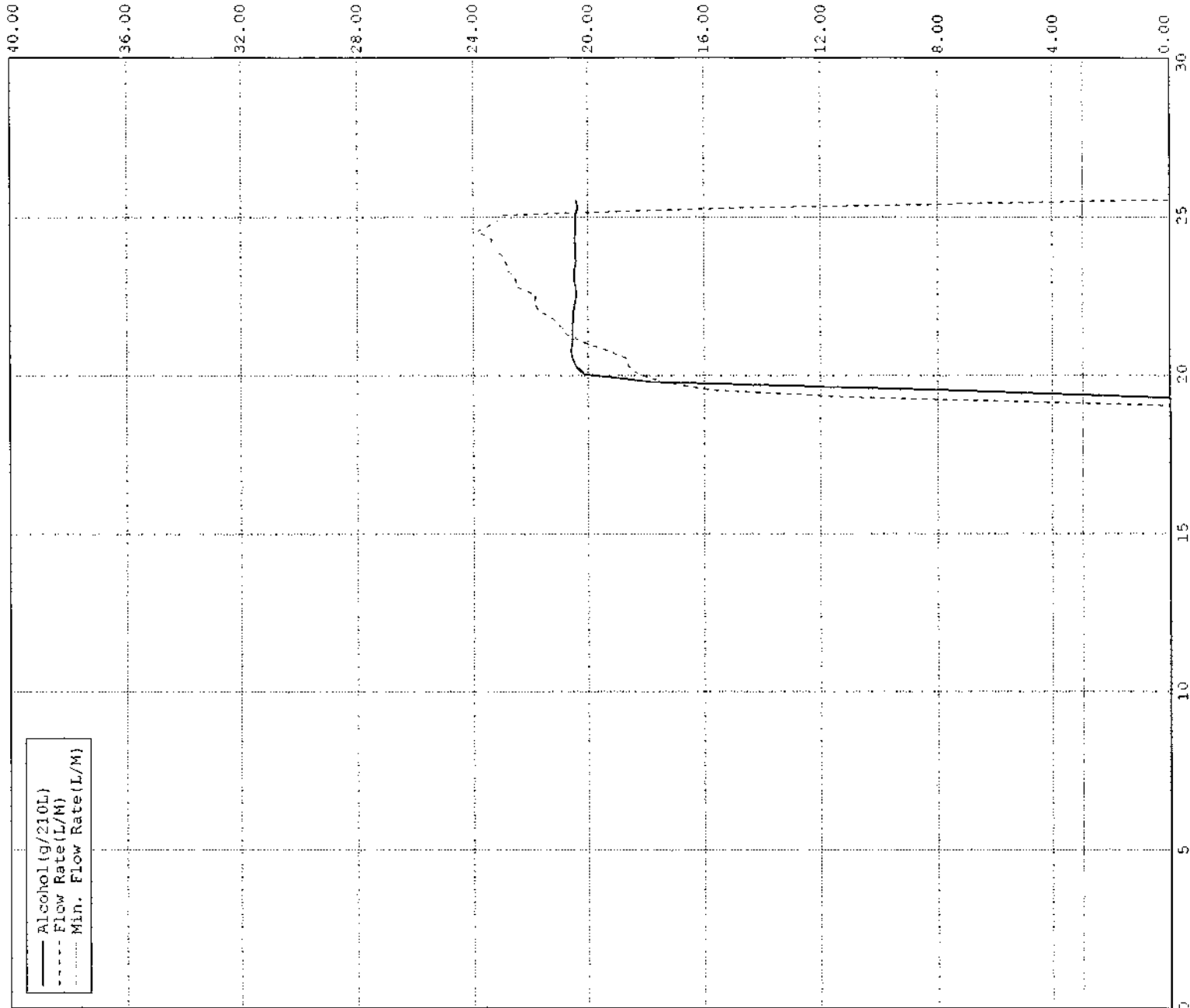
NOMINAL: 0.080  
TARGET AF 29.65: 0.079  
LOT #: 09214080A3  
EXPIRATION: 05/01/2016

|                         |           |       |
|-------------------------|-----------|-------|
| DIAGNOSTIC CHECK        | PASSED    | 09:33 |
| BLANK TEST              | 0.000     | 09:34 |
| INTERNAL STANDARD       | VERIFIED  | 09:34 |
| Xq = 0.090 (0.10%)      |           |       |
| EXTERNAL STANDARD       | 0.078     | 09:34 |
| X[1] = 0.0776 (-0.0005) | (0.0021)  |       |
| BLANK TEST              | 0.000     | 09:35 |
| SUBJECT SAMPLE          | XXX       | 09:35 |
| X[1] = 0.1009 (-0.0122) | (-0.0014) |       |

Interference Detected

*Filter 2 avg = -0.0006*  
*Filter 3 avg = 0.0019*

*CB*



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100395

Date: 08/06/2015  
Time: 09:38:46

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-IPA

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

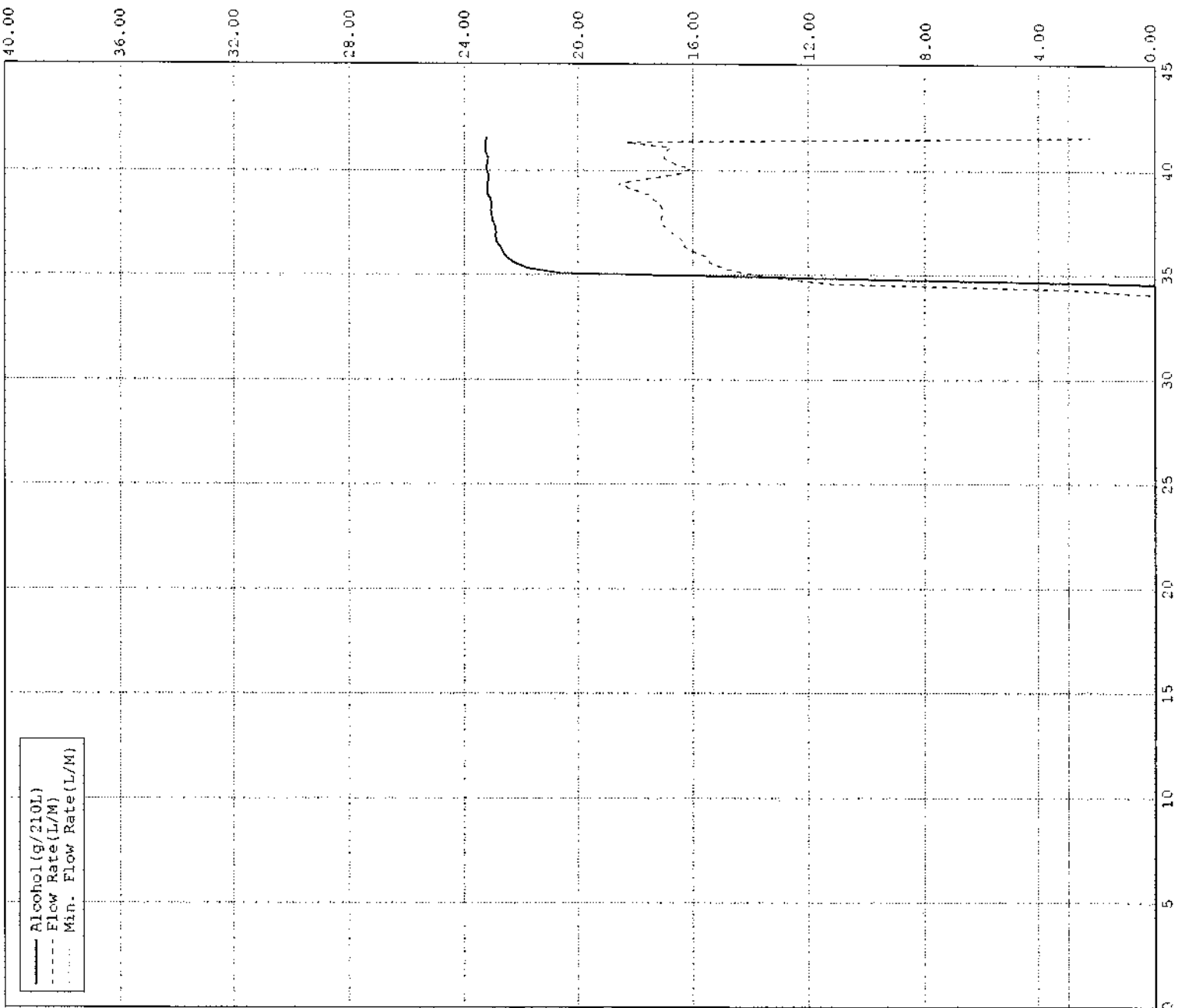
DEPT/AGENCY:  
AAA1  
CASE/REPORT: 15-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.65: 0.079  
LOT #: 09214080A3  
EXPIRATION: 05/01/2016

|                         |          |       |
|-------------------------|----------|-------|
| DIAGNOSTIC CHECK        | PASSED   | 09:39 |
| BLANK TEST              | 0.000    | 09:40 |
| INTERNAL STANDARD       | VERIFIED | 09:40 |
| Xq = 0.091 (0.68%)      |          |       |
| EXTERNAL STANDARD       | 0.078    | 09:40 |
| X{1} = 0.0778 (-0.0003) | (0.0016) |       |
| BLANK TEST              | 0.000    | 09:41 |
| SUBJECT SAMPLE          | XXX      | 09:42 |
| X{1} = 0.1149 (-0.0211) | (0.0009) |       |

Interference Detected





SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100395

Date: 08/06/2015  
Time: 09:45:37

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-NEGATIVE

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

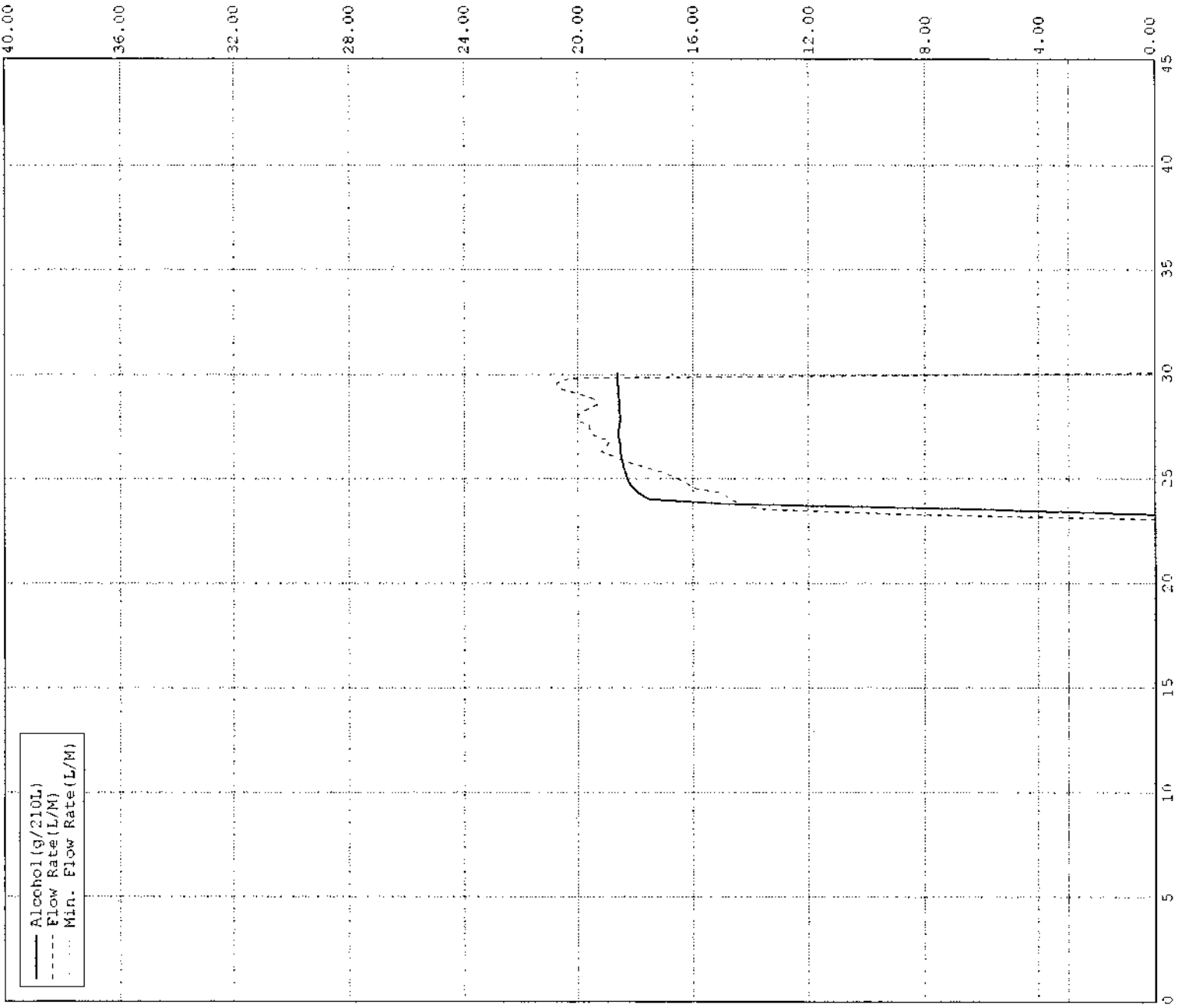
DEPT/AGENCY:  
AAA1

CASE/REPORT: 15-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.65: 0.079  
LOT #: 09214080A3  
EXPIRATION: 05/01/2016

|                                    |          |       |
|------------------------------------|----------|-------|
| DIAGNOSTIC CHECK                   | PASSED   | 09:46 |
| BLANK TEST                         | 0.000    | 09:46 |
| INTERNAL STANDARD                  | VERIFIED | 09:46 |
| $X_q = 0.090$ (0.108)              |          |       |
| EXTERNAL STANDARD                  | 0.077    | 09:47 |
| $X[1] = 0.0771$ (-0.0010) (0.0017) |          |       |
| BLANK TEST                         | 0.000    | 09:48 |
| SUBJECT SAMPLE (Vol=2.01L)         | 0.092    | 09:48 |
| $X[1] = 0.0922$ (0.0014) (0.0006)  |          |       |
| BLANK TEST                         | 0.000    | 09:49 |
| EXTERNAL STANDARD                  | 0.077    | 09:49 |
| $X[1] = 0.0772$ (-0.0004) (0.0021) |          |       |
| BLANK TEST                         | 0.000    | 09:50 |



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100395

Date: 08/06/2015

Time: 09:53:26

SUBJECT NAME:

TEST TEST

LICENSE #: MAX ATTEMPTS

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 15-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.65: 0.079

LOT #: 09214080A3

EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 09:54

0.000 09:54

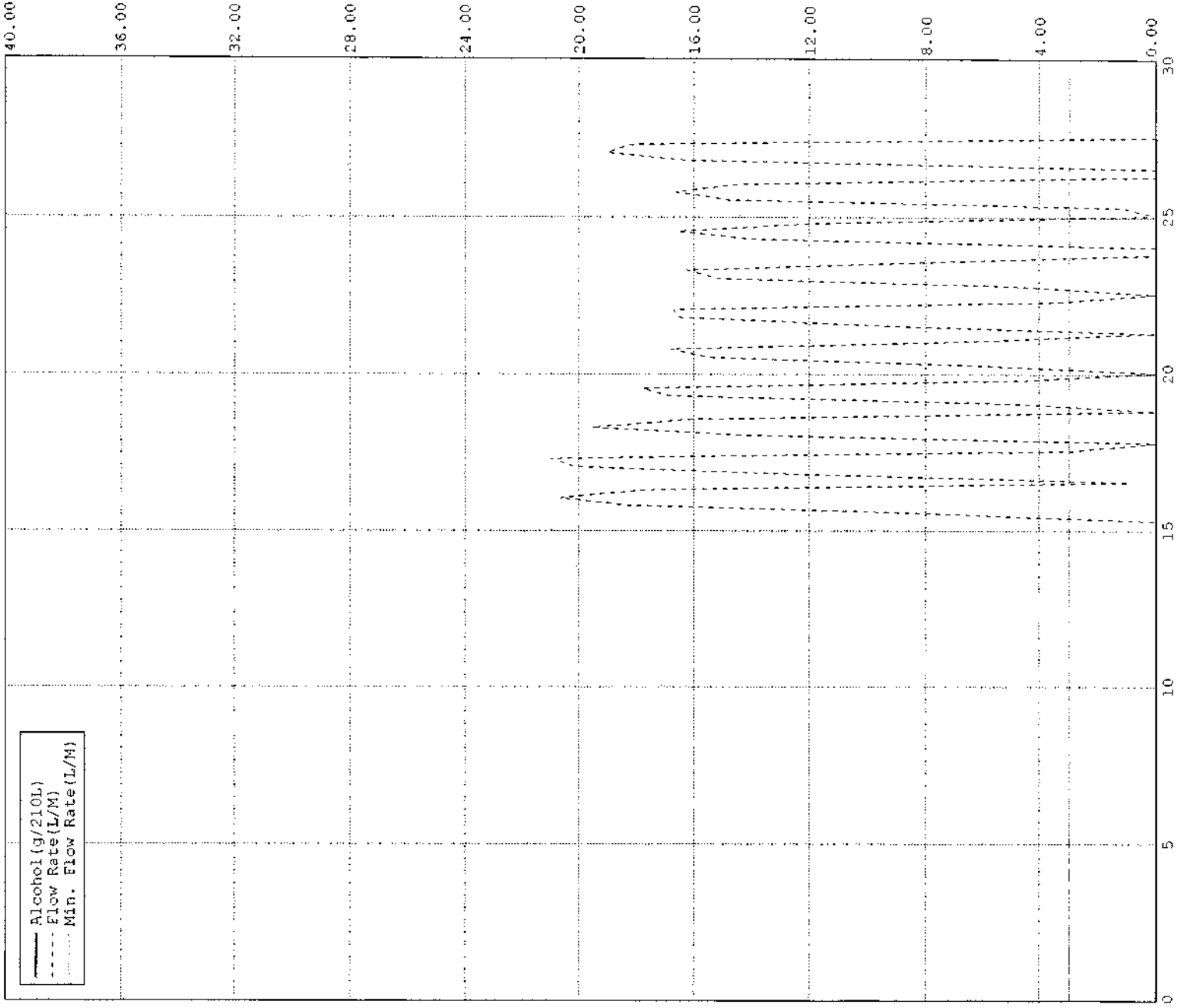
VERIFIED 09:54

0.078 09:55

0.000 09:55

XXX 09:56

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100395

Date: 08/06/2015

Time: 09:58:29

SUBJECT NAME:

TEST TEST

LICENSE #: RFI

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 15-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.65: 0.079

LOT #: 09214080A3

EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

PASSED 09:59

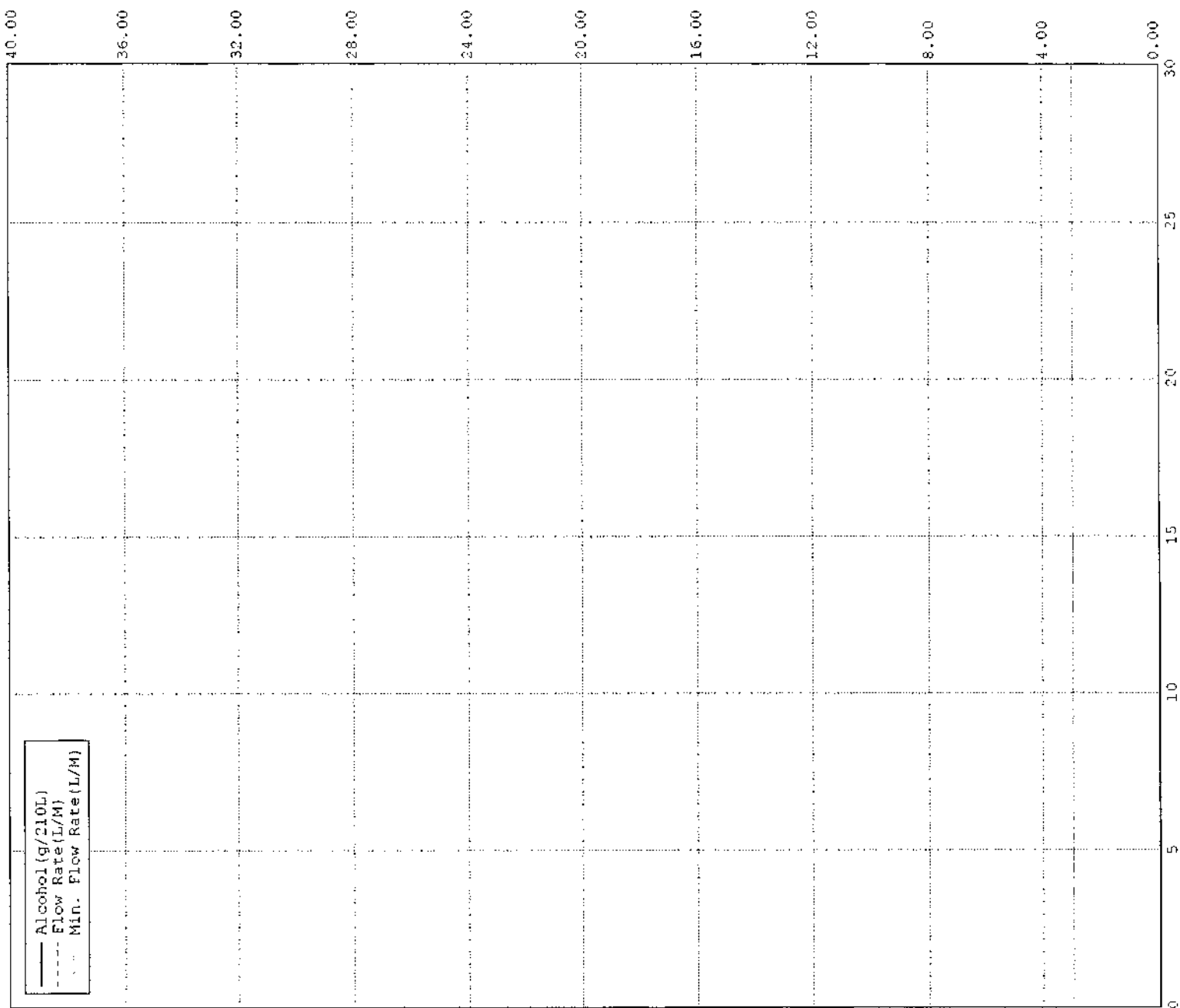
0.000 09:59

VERIFIED 09:59

0.078 10:00

0.000 10:01

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dnt: 100395

Date: 08/06/2015  
Time: 10:15:15

SUBJECT NAME:  
TEST TEST  
LICENSE #: NONDRINKING

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

DEPT/AGENCY:  
AAA1  
CASE/REPORT: 15-1234  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.65: 0.079  
LOT #: 09214080A3  
EXPIRATION: 05/01/2016

|                            |          |       |
|----------------------------|----------|-------|
| DIAGNOSTIC CHECK           | PASSED   | 10:16 |
| BLANK TEST                 | 0.000    | 10:16 |
| INTERNAL STANDARD          | VERIFIED | 10:16 |
| EXTERNAL STANDARD          | 0.078    | 10:17 |
| BLANK TEST                 | 0.000    | 10:18 |
| SUBJECT SAMPLE (Vol=2.02L) | 0.000    | 10:18 |
| BLANK TEST                 | 0.000    | 10:19 |
| EXTERNAL STANDARD          | 0.078    | 10:19 |
| BLANK TEST                 | 0.000    | 10:20 |

