

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100694 Analyst Colleen O'Bryant Start Date 11/23/12

Diagnostic Test (attached)

1. Voltage Checks

- a. Adjust voltages, if needed
 - i. Lamp (2.6V Maximum)
 - ii. Bias (80V)
 - iii. Cooler (2.0V Maximum)
- 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)
- iv. Chopper Frequency
- v. Detector Voltage (-0.100V to 0.100V)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1400 mL (1.3L to 1.7L)

4. Linearity Test (attached)

- a. Levels Used
 - i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013
 - ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013
 - iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/2014
 - iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/2013
 - v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/2013
 - 1. Simulator S/N DR4162 Date Calibrated 10/09/2012
 - vi. 0.300g/210L Mnf Guth Lot 12050 Exp 03/21/2014
 - 1. Simulator S/N DR4178 Date Calibrated 02/21/2012

5. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference
 - i. Acetone - Mnf Guth Lot 11100 Level 0.100 Exp 07/06/2013
 - 1. Simulator S/N DR5298 Date Calibrated 10/08/2012
 - ii. Isopropanol - Mnf Guth Lot 11250 Level 0.100 Exp 12/06/2013
 - 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 SD1176 Date Calibrated 10/09/2012

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 11/23/12

03/19

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 11/23/2012
Time: 07:01:31

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 46.9°C PASSED

PUMP INFO
Flow Rate = 4.739 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: 100694

Date: 11/23/2012
Time: 7:22 AM

Temperatures (°C)
Sample Cell: 49.6°C
Breath Tube: 47.6°C

Current Barometer 29.4 in
Volume (Ltr) 1.60

Settings
Lamp: 1.61 V
Bias: 80 V
Cooler: 1.56 V
Chopper: 533 Hz

Voltages (V)
Flow: 1.03 V
Detector: 0.064 V

08/3/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 11/03/2011
Time: 07:11:34

Ca = 0.1000
CAL = 1.014984 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0046 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0964 0.0500 <= Xq < 0.2000
a21 = 1.210442 1.050 <= a21 < 1.300
a31 = 0.430416 0.300 <= a31 < 0.800

0034/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 11/23/2012
Time: 07:28:04

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

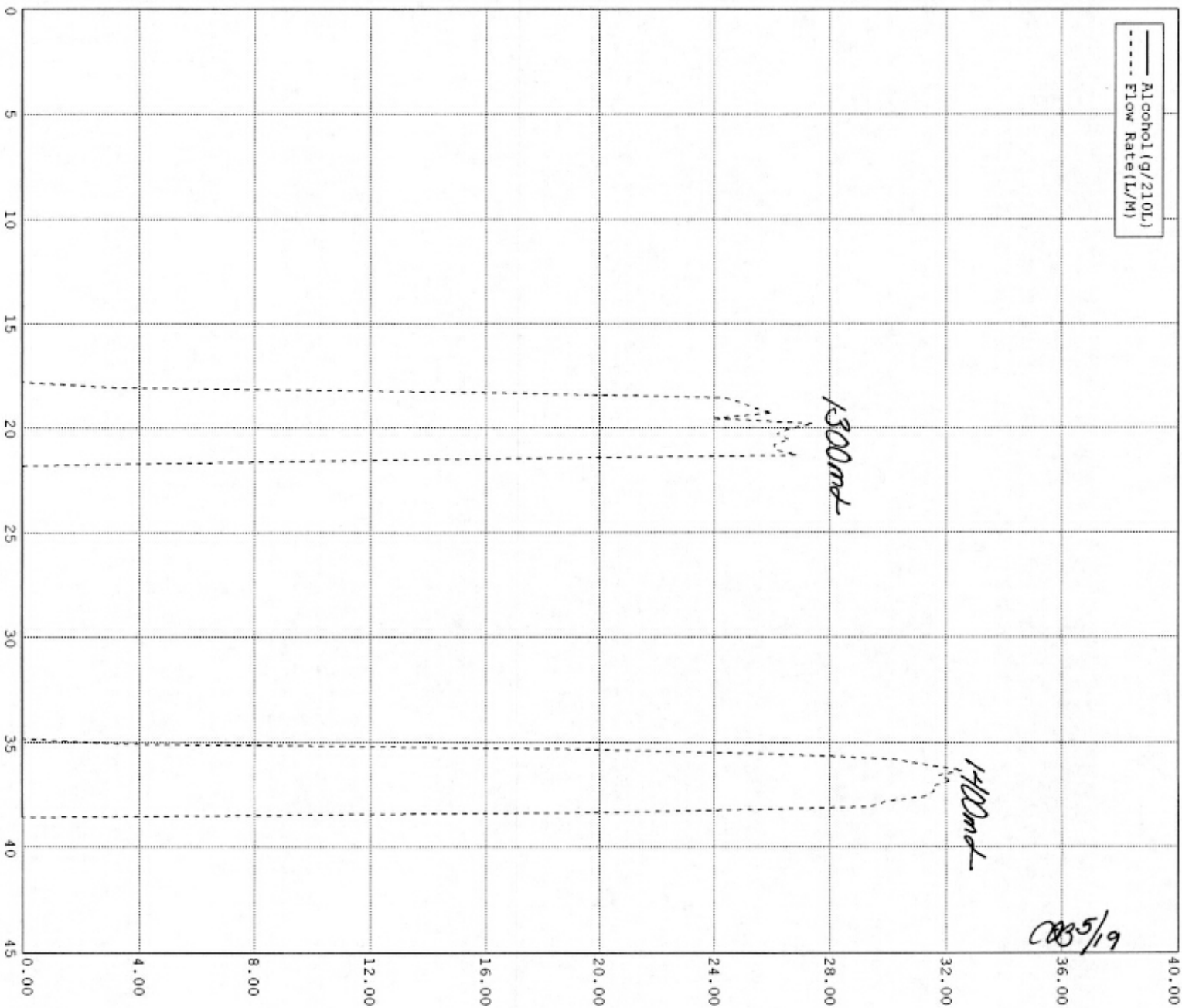
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.35: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| DIAGNOSTIC CHECK | PASSED | 07:33 |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 07:33 |
| INTERNAL STANDARD | VERIFIED | 07:33 |
| EXTERNAL STANDARD | 0.079 | 07:33 |
| BLANK TEST | 0.000 | 07:34 |
| SUBJECT SAMPLE | 0.000 | 07:35 |
| BLANK TEST | 0.000 | 07:36 |
| EXTERNAL STANDARD | 0.079 | 07:36 |
| BLANK TEST | 0.000 | 07:37 |

Colleen



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100694

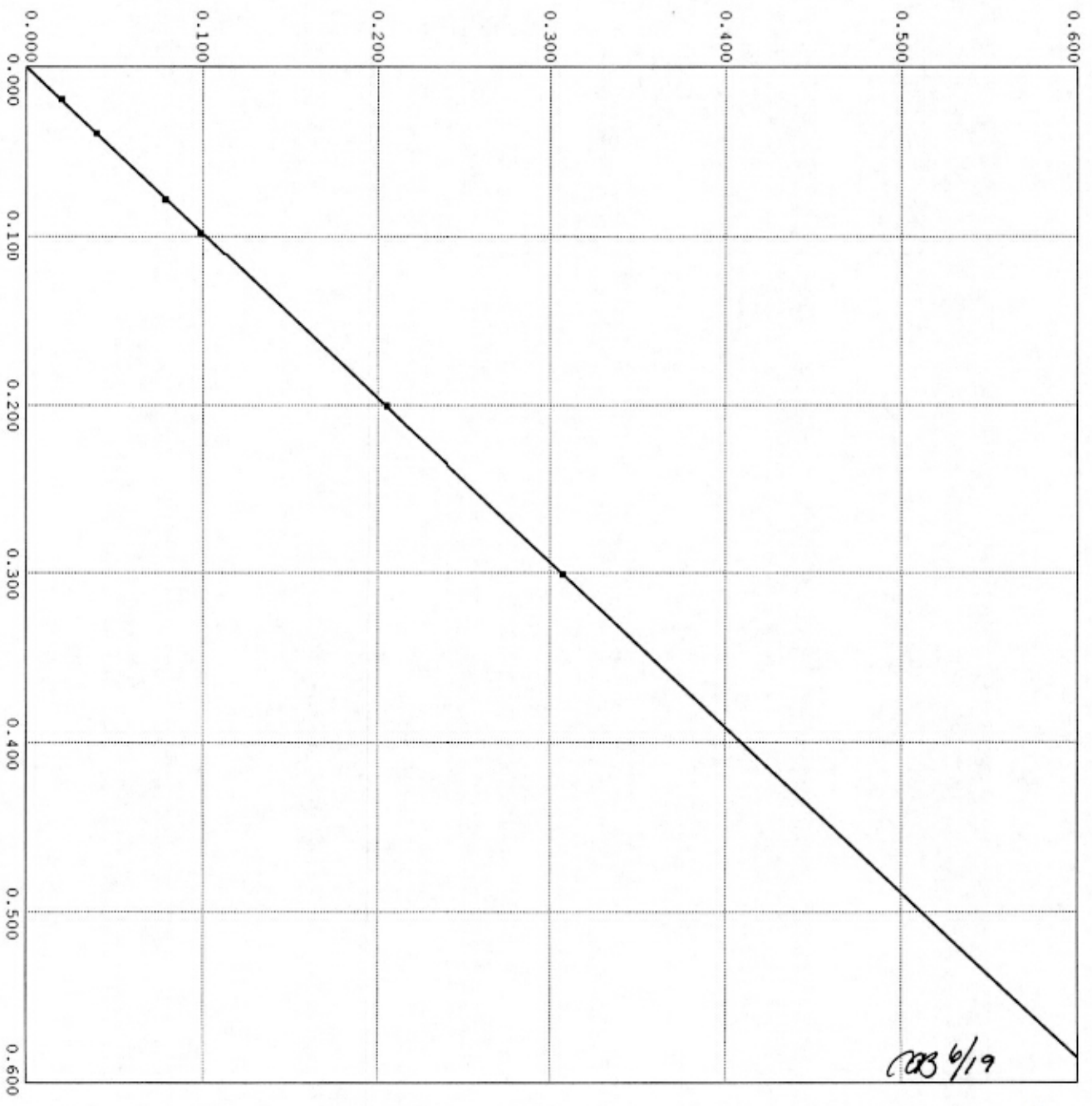
Date: 11/23/2012
 Time: 07:46:50

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

| TARGET | AVERAGE | STD. DEV. |
|--------|---------|-----------|
| 0.019 | 0.0207 | 0.0001 |
| 0.039 | 0.0405 | 0.0002 |
| 0.078 | 0.0796 | 0.0002 |
| 0.098 | 0.0998 | 0.0002 |
| 0.200 | 0.2059 | 0.0002 |
| 0.300 | 0.3079 | 0.0004 |

SLOPE = 1.025081
 R² = 0.999958

C



LINEARITY CHECK: Control Test 1

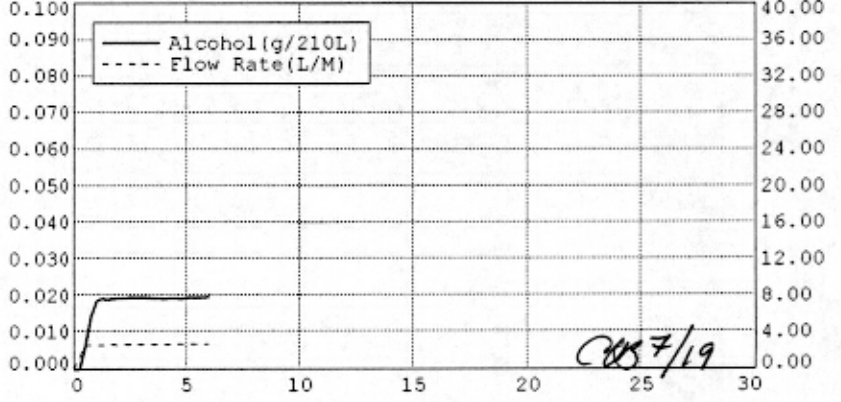
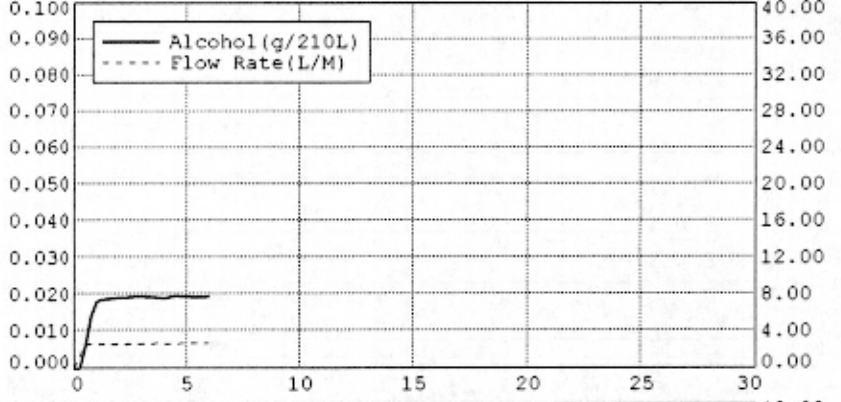
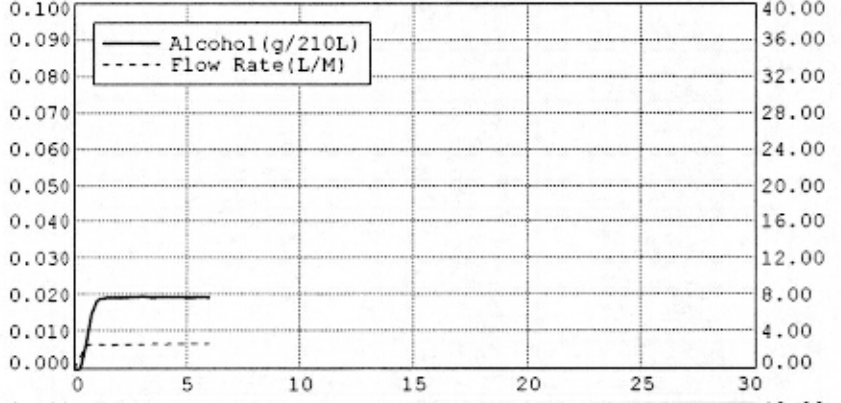
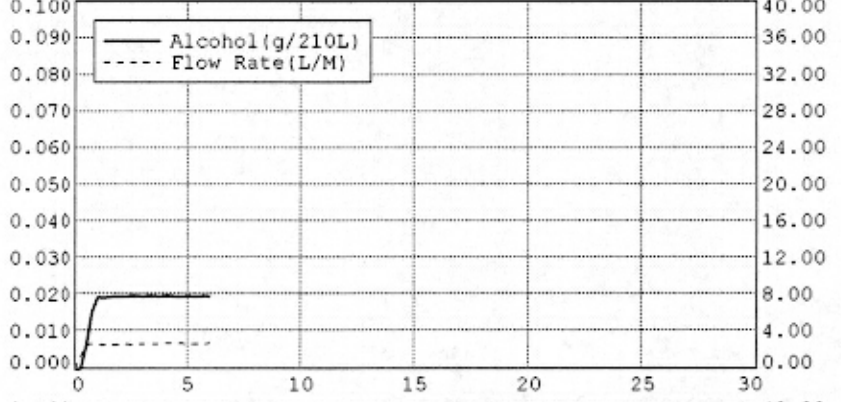
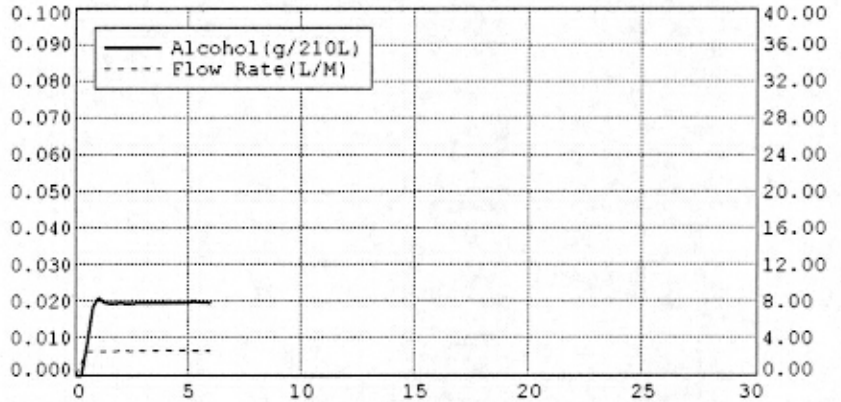
Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 11/23/2012
Time: 07:46:51

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.36: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 07:56 |
| INTERNAL STANDARD | VERIFIED | 07:56 |
| EXTERNAL STANDARD | 0.020 | 07:56 |
| BLANK TEST | 0.000 | 07:57 |
| EXTERNAL STANDARD | 0.020 | 07:57 |
| BLANK TEST | 0.000 | 07:58 |
| EXTERNAL STANDARD | 0.020 | 07:58 |
| BLANK TEST | 0.000 | 07:59 |
| EXTERNAL STANDARD | 0.020 | 07:59 |
| BLANK TEST | 0.000 | 08:00 |
| EXTERNAL STANDARD | 0.020 | 08:00 |
| BLANK TEST | 0.000 | 08:01 |

Average = 0.0207
Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

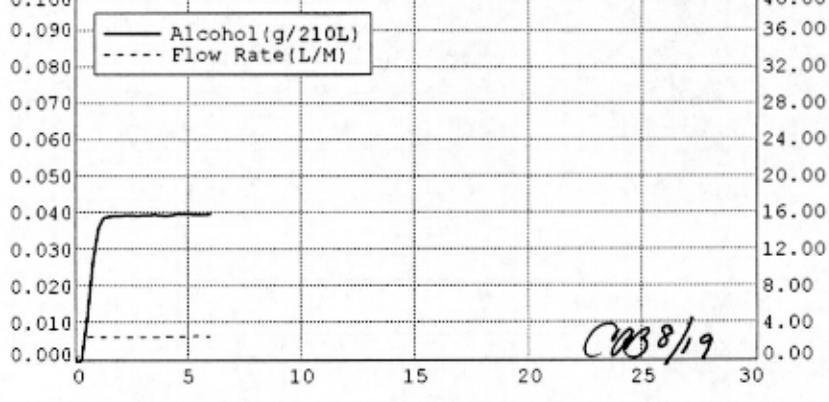
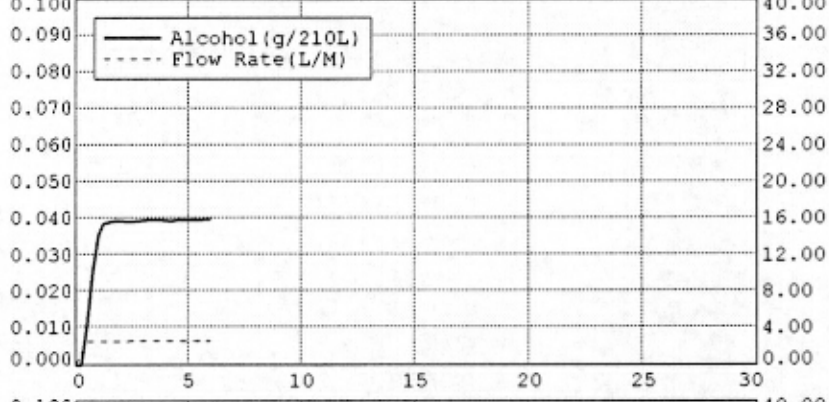
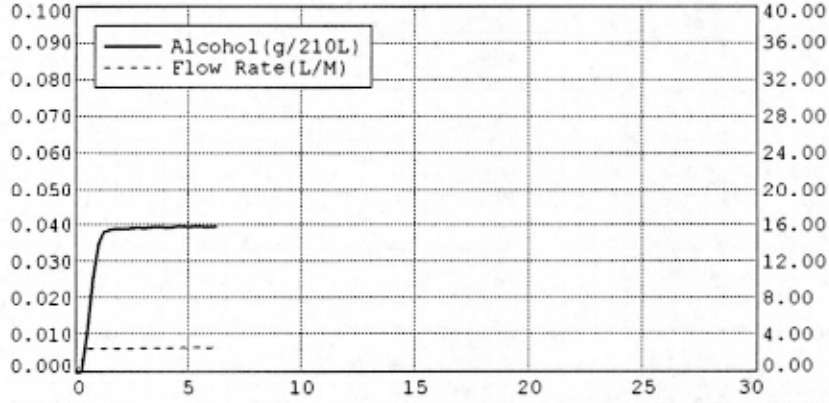
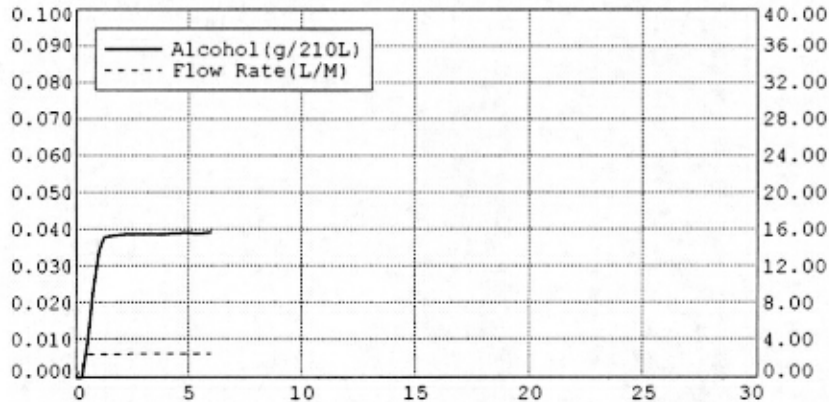
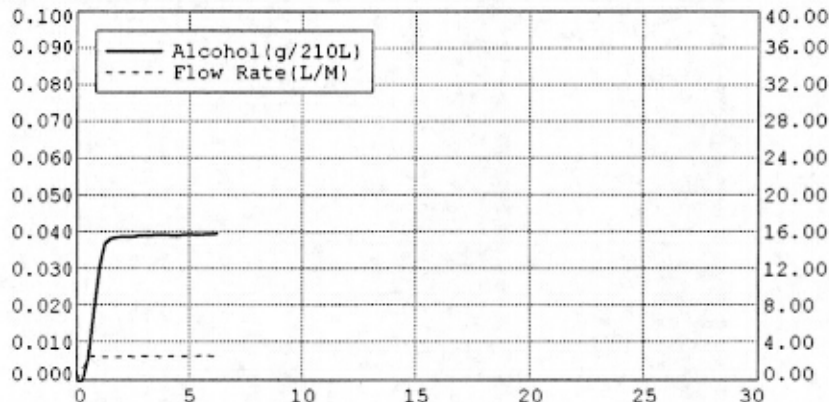
Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 11/23/2012
Time: 08:03:09

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.36: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 08:04 |
| INTERNAL STANDARD | VERIFIED | 08:04 |
| EXTERNAL STANDARD | 0.040 | 08:04 |
| BLANK TEST | 0.000 | 08:05 |
| EXTERNAL STANDARD | 0.040 | 08:05 |
| BLANK TEST | 0.000 | 08:06 |
| EXTERNAL STANDARD | 0.040 | 08:06 |
| BLANK TEST | 0.000 | 08:07 |
| EXTERNAL STANDARD | 0.040 | 08:08 |
| BLANK TEST | 0.000 | 08:08 |
| EXTERNAL STANDARD | 0.040 | 08:09 |
| BLANK TEST | 0.000 | 08:10 |

Average = 0.0405
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100694

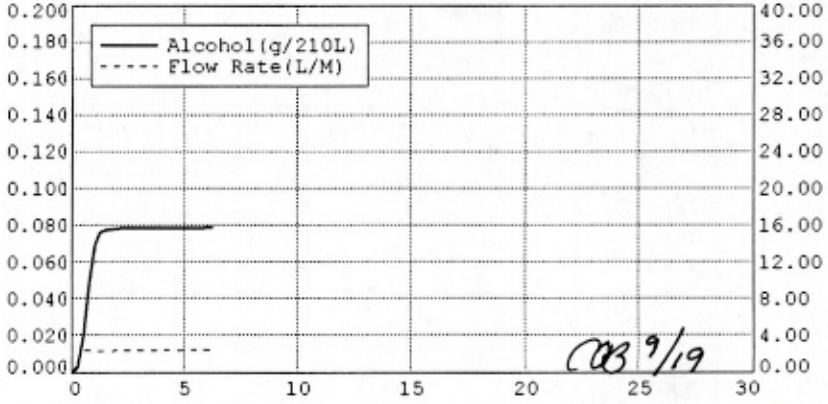
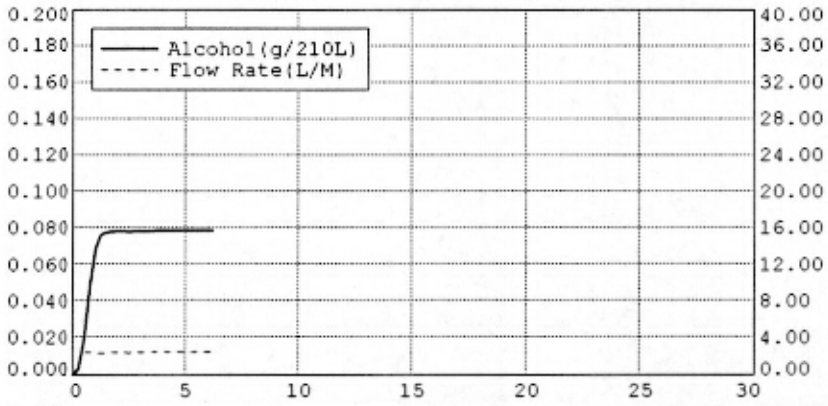
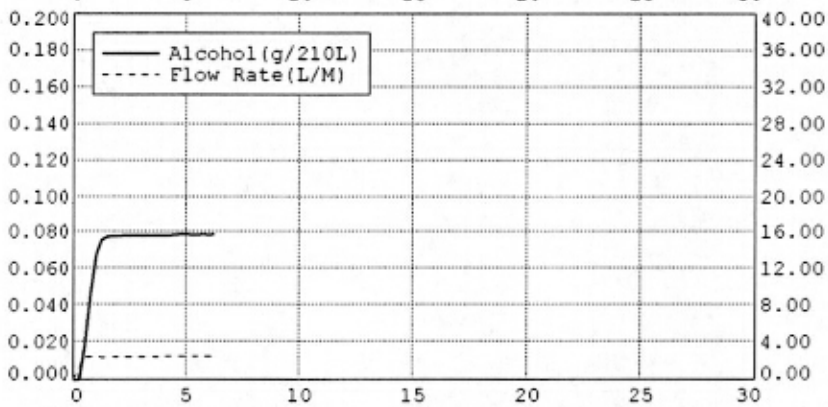
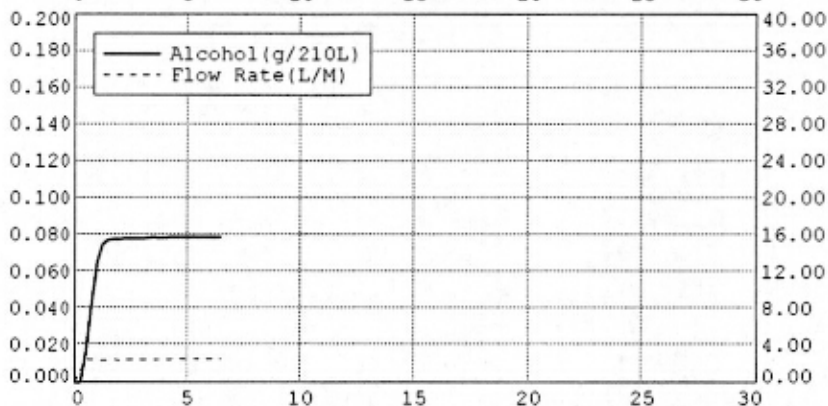
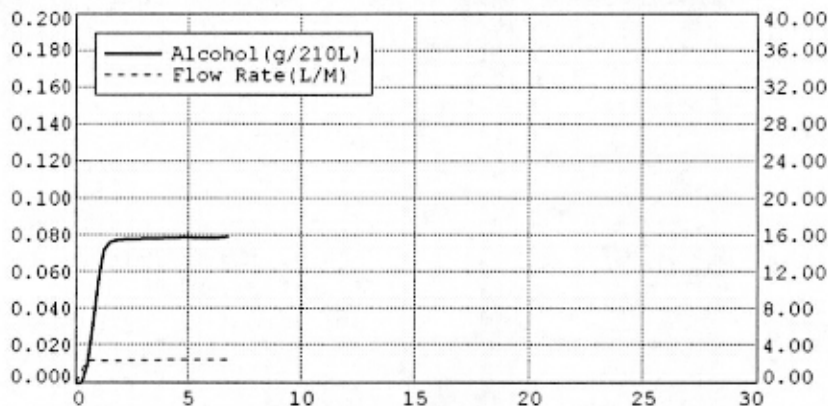
Date: 11/23/2012
Time: 08:10:44

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.36: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 08:11 |
| INTERNAL STANDARD | VERIFIED | 08:12 |
| EXTERNAL STANDARD | 0.079 | 08:12 |
| BLANK TEST | 0.000 | 08:13 |
| EXTERNAL STANDARD | 0.079 | 08:13 |
| BLANK TEST | 0.000 | 08:14 |
| EXTERNAL STANDARD | 0.079 | 08:14 |
| BLANK TEST | 0.000 | 08:15 |
| EXTERNAL STANDARD | 0.079 | 08:15 |
| BLANK TEST | 0.000 | 08:16 |
| EXTERNAL STANDARD | 0.079 | 08:16 |
| BLANK TEST | 0.000 | 08:17 |

Average = 0.0796
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

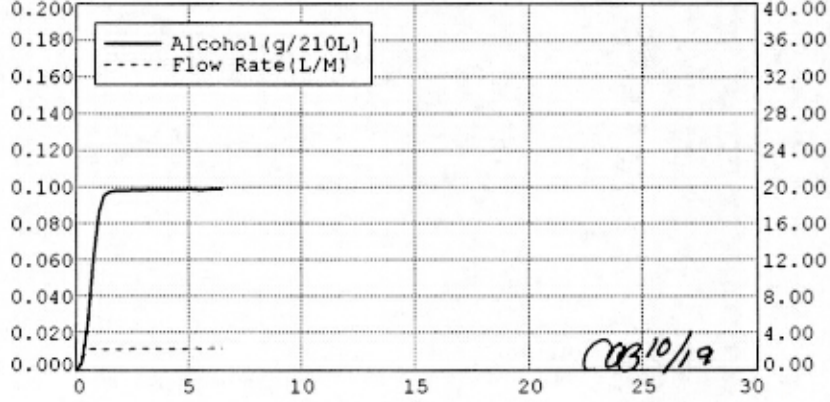
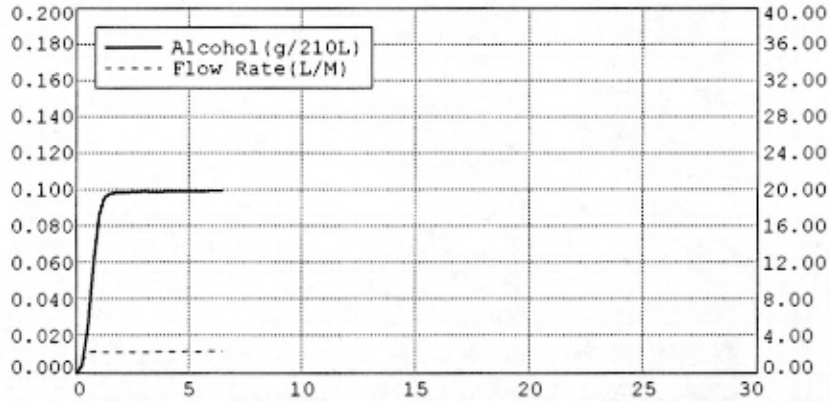
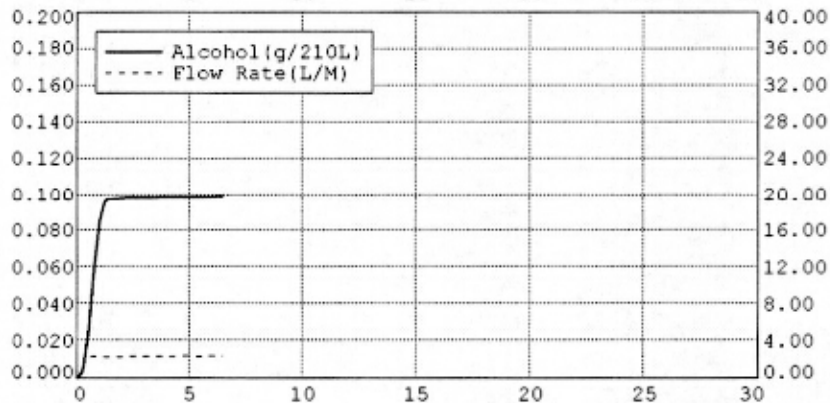
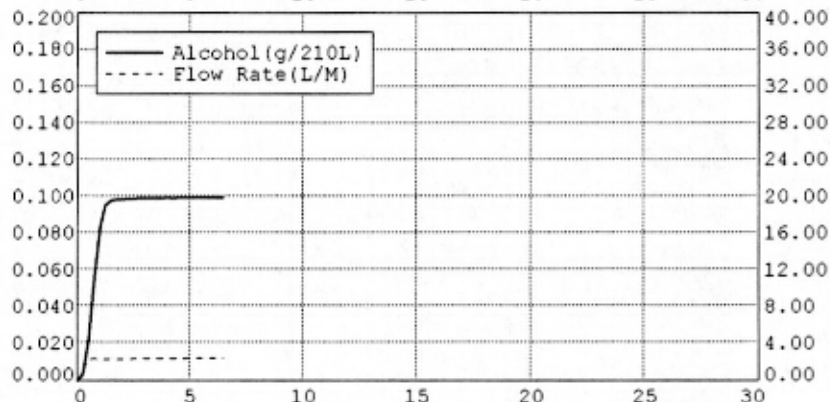
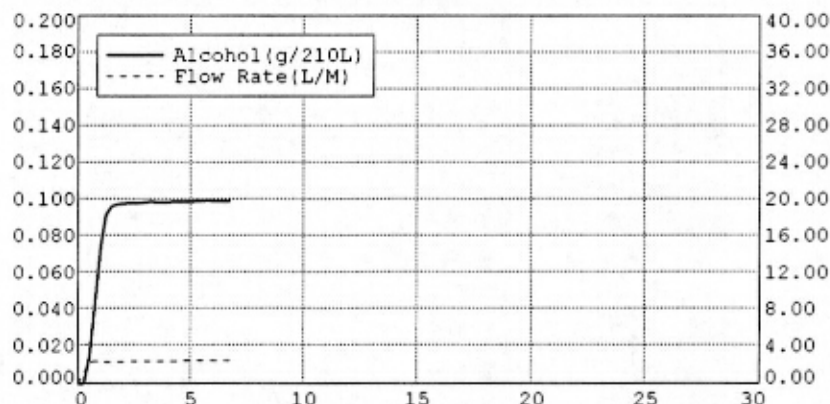
Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 11/23/2012
Time: 08:20:36

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.36: 0.098
LOT #: 07611100A3
EXPIRATION: 03/01/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 08:21 |
| INTERNAL STANDARD | VERIFIED | 08:22 |
| EXTERNAL STANDARD | 0.099 | 08:22 |
| BLANK TEST | 0.000 | 08:23 |
| EXTERNAL STANDARD | 0.099 | 08:23 |
| BLANK TEST | 0.000 | 08:24 |
| EXTERNAL STANDARD | 0.099 | 08:24 |
| BLANK TEST | 0.000 | 08:25 |
| EXTERNAL STANDARD | 0.100 | 08:25 |
| BLANK TEST | 0.000 | 08:26 |
| EXTERNAL STANDARD | 0.099 | 08:26 |
| BLANK TEST | 0.000 | 08:27 |

Average = 0.0998
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

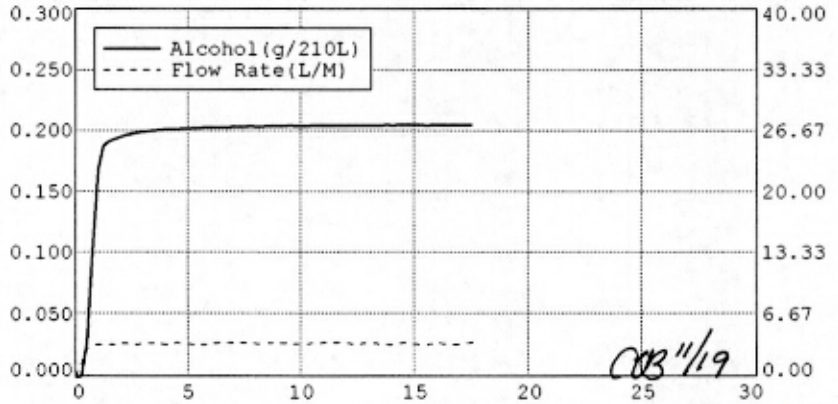
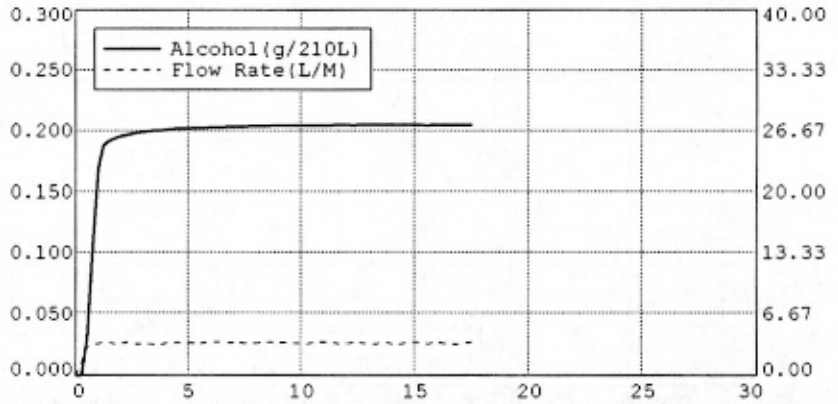
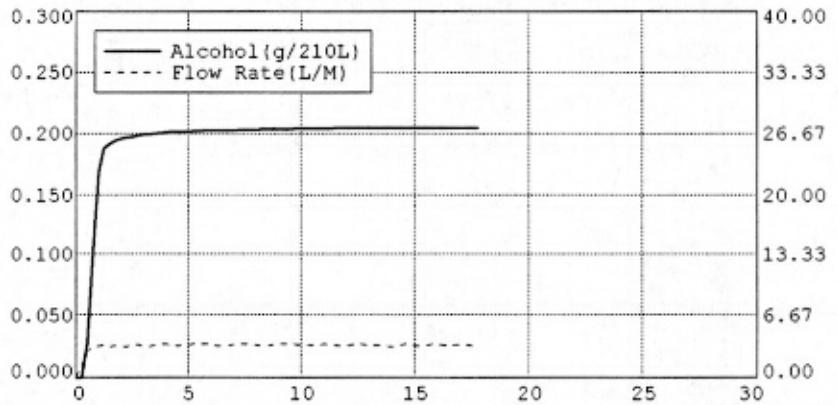
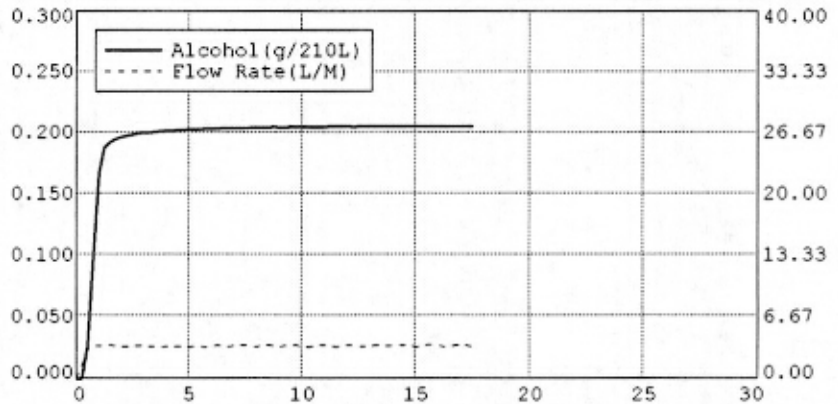
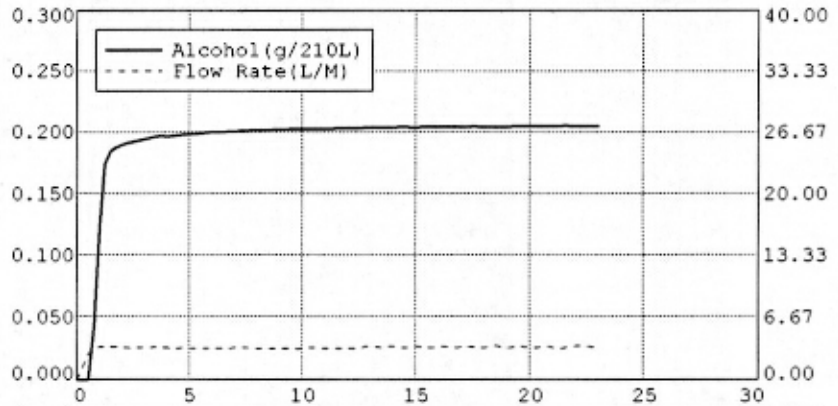
Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 11/23/2012
Time: 08:29:32

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
LOT #: 11120
EXPIRATION: 07/19/2013

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 08:30 |
| INTERNAL STANDARD | VERIFIED | 08:31 |
| EXTERNAL STANDARD | 0.206 | 08:31 |
| BLANK TEST | 0.000 | 08:32 |
| EXTERNAL STANDARD | 0.205 | 08:32 |
| BLANK TEST | 0.000 | 08:33 |
| EXTERNAL STANDARD | 0.206 | 08:34 |
| BLANK TEST | 0.000 | 08:35 |
| EXTERNAL STANDARD | 0.206 | 08:35 |
| BLANK TEST | 0.000 | 08:36 |
| EXTERNAL STANDARD | 0.206 | 08:36 |
| BLANK TEST | 0.000 | 08:37 |

Average = 0.2059
Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100694

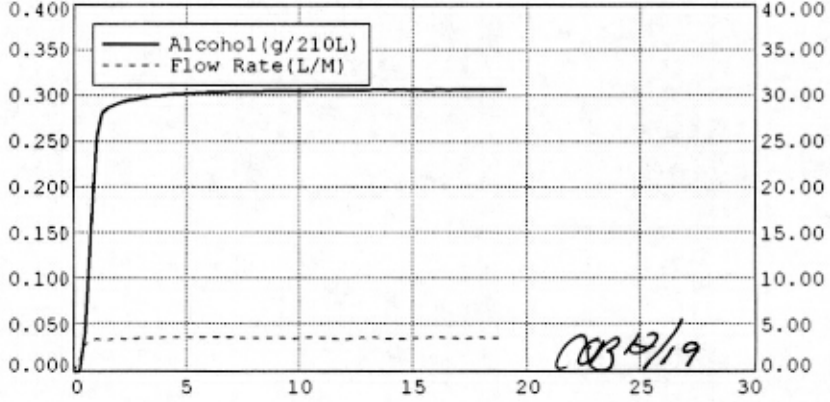
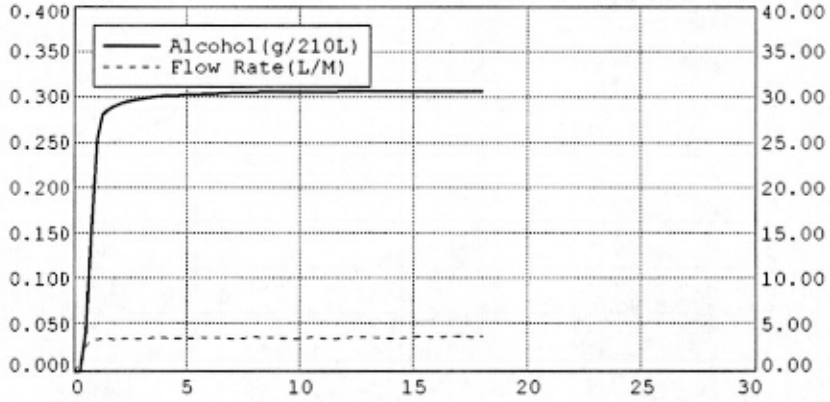
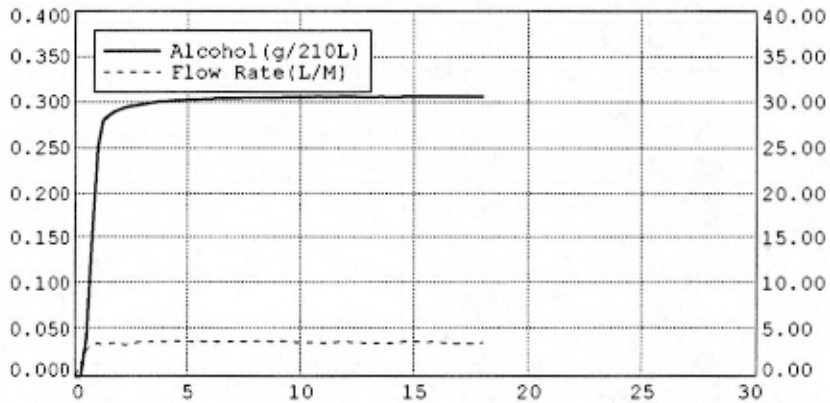
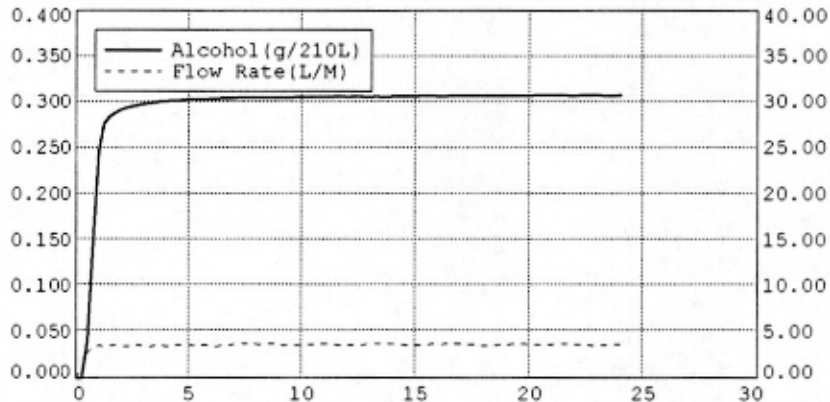
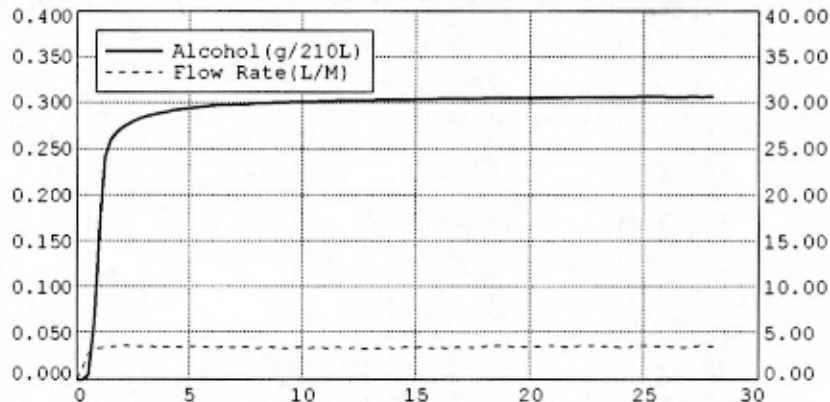
Date: 11/23/2012
Time: 08:48:56

EXTERNAL STANDARD INFORMATION

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

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 08:50 |
| INTERNAL STANDARD | VERIFIED | 08:50 |
| EXTERNAL STANDARD | 0.307 | 08:50 |
| BLANK TEST | 0.000 | 08:51 |
| EXTERNAL STANDARD | 0.308 | 08:52 |
| BLANK TEST | 0.000 | 08:53 |
| EXTERNAL STANDARD | 0.307 | 08:53 |
| BLANK TEST | 0.000 | 08:54 |
| EXTERNAL STANDARD | 0.307 | 08:55 |
| BLANK TEST | 0.000 | 08:55 |
| EXTERNAL STANDARD | 0.307 | 08:56 |
| BLANK TEST | 0.000 | 08:57 |

Average = 0.3079
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 11/23/2012
Time: 09:25:49

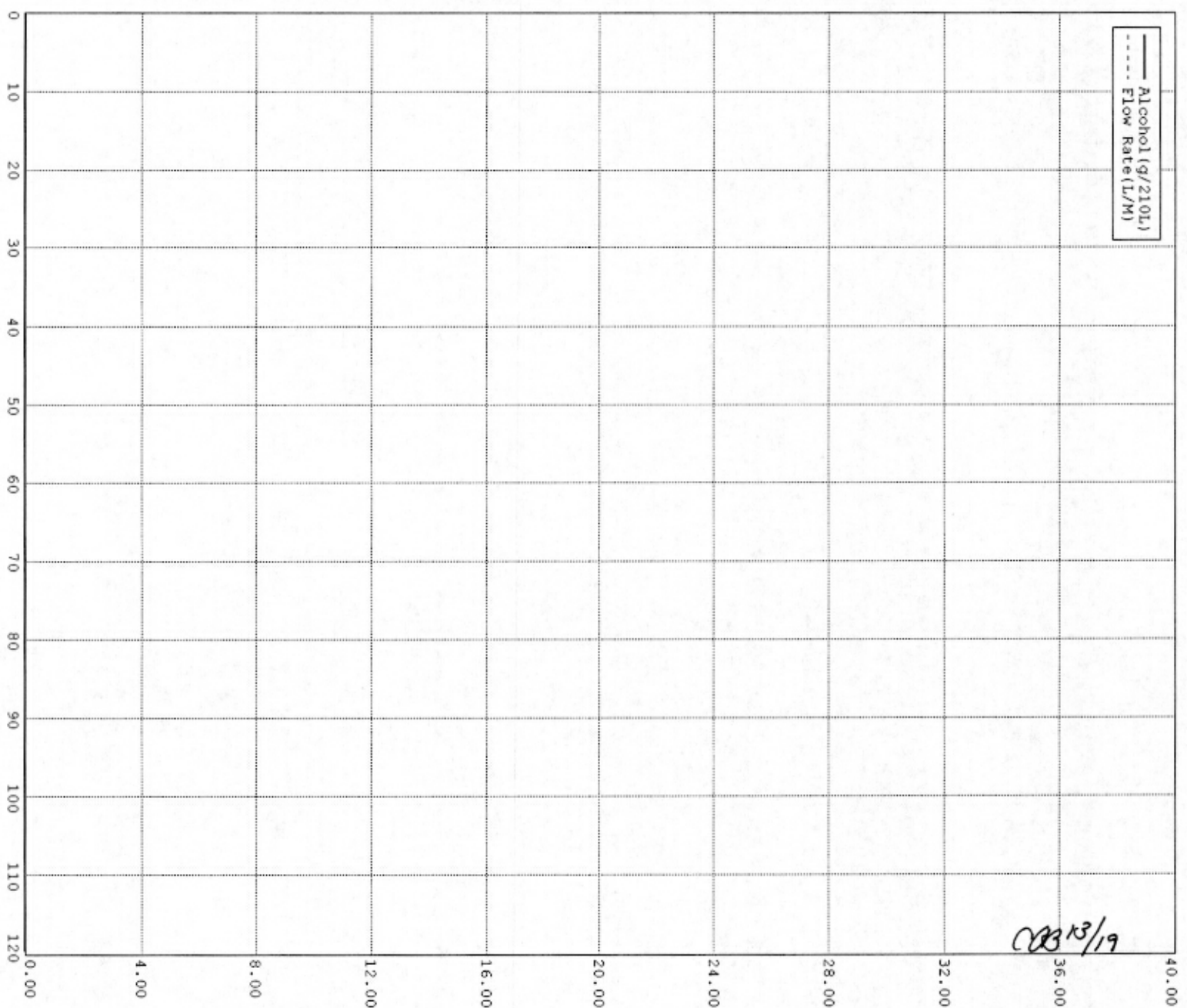
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.40: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| | | |
|-------------------|------------|-------|
| DIAGNOSTIC CHECK | PASSED | 09:41 |
| BLANK TEST | 0.000 | 09:41 |
| INTERNAL STANDARD | VERIFIED | 09:41 |
| EXTERNAL STANDARD | 0.079 | 09:41 |
| BLANK TEST | 0.000 | 09:42 |
| SUBJECT SAMPLE | INCOMPLETE | 09:44 |



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 11/23/2012
Time: 09:47:25

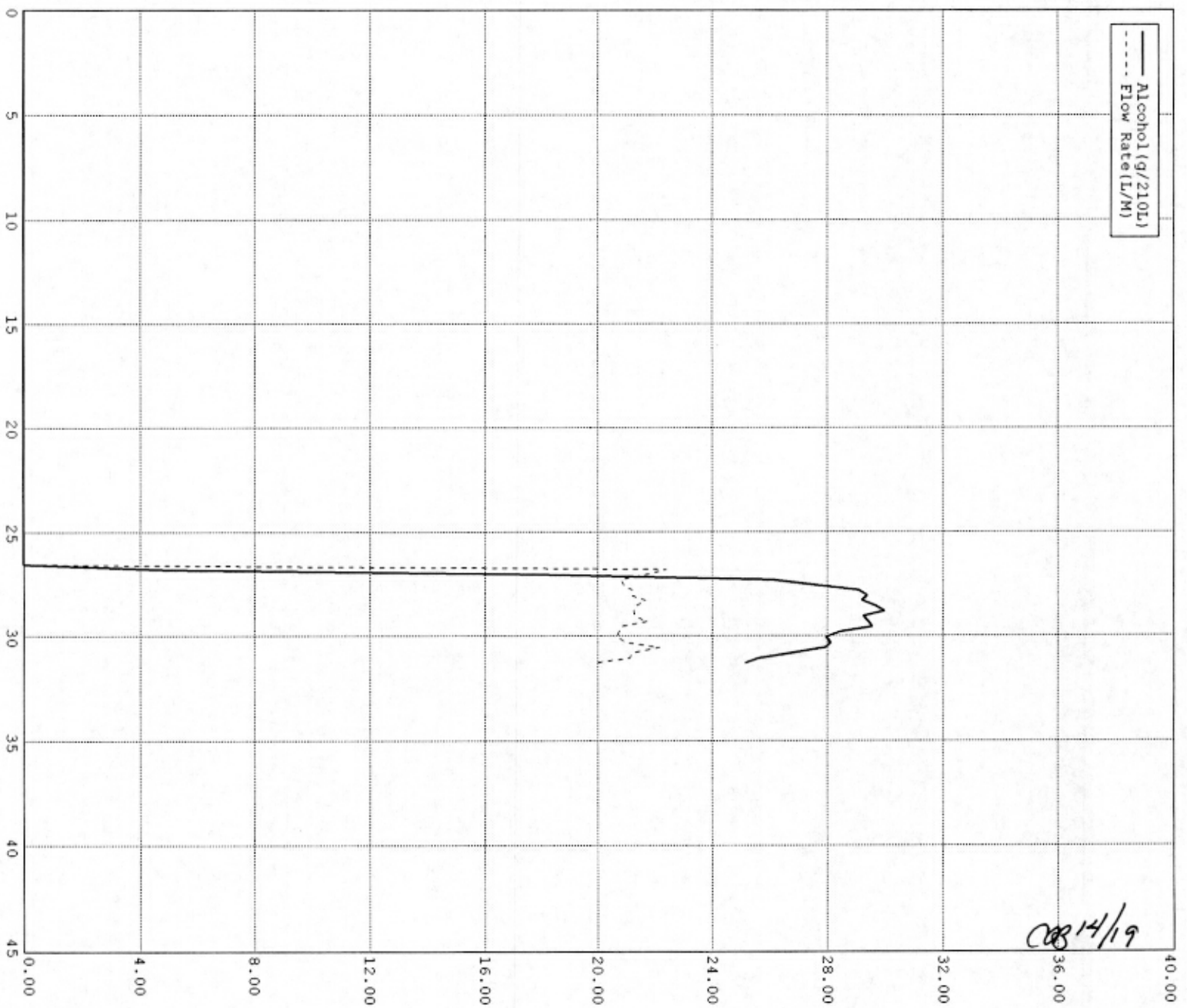
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.40: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| | | |
|-------------------|----------|-------|
| DIAGNOSTIC CHECK | PASSED | 09:48 |
| BLANK TEST | 0.000 | 09:48 |
| INTERNAL STANDARD | VERIFIED | 09:48 |
| EXTERNAL STANDARD | 0.080 | 09:48 |
| BLANK TEST | 0.000 | 09:49 |
| SUBJECT SAMPLE | INVALID | 09:51 |



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 11/23/2012
Time: 09:01:44

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

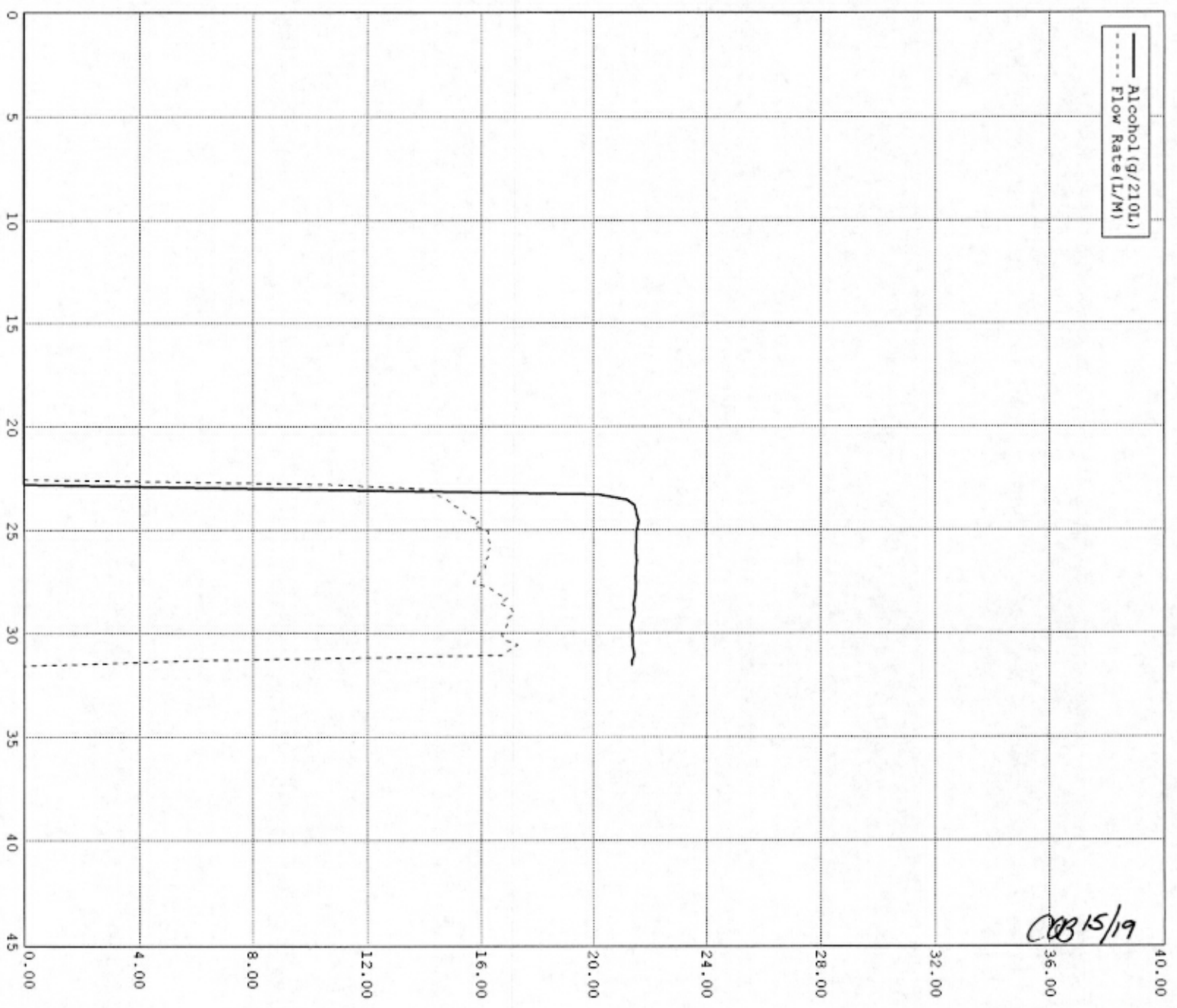
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.38: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| | | |
|-------------------------|--------------|-------|
| DIAGNOSTIC CHECK | PASSED | 09:02 |
| BLANK TEST | 0.000 | 09:02 |
| INTERNAL STANDARD | VERIFIED | 09:03 |
| Xq = 0.097 (0.82%) | | |
| EXTERNAL STANDARD | 0.079 | 09:03 |
| X[1] = 0.0792 (0.0005) | 0.0042 | |
| BLANK TEST | 0.000 | 09:04 |
| SUBJECT SAMPLE | INTERFERENCE | 09:04 |
| X[1] = 0.1071 (-0.0194) | (0.0021) | |

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 11/23/2012
Time: 09:07:22

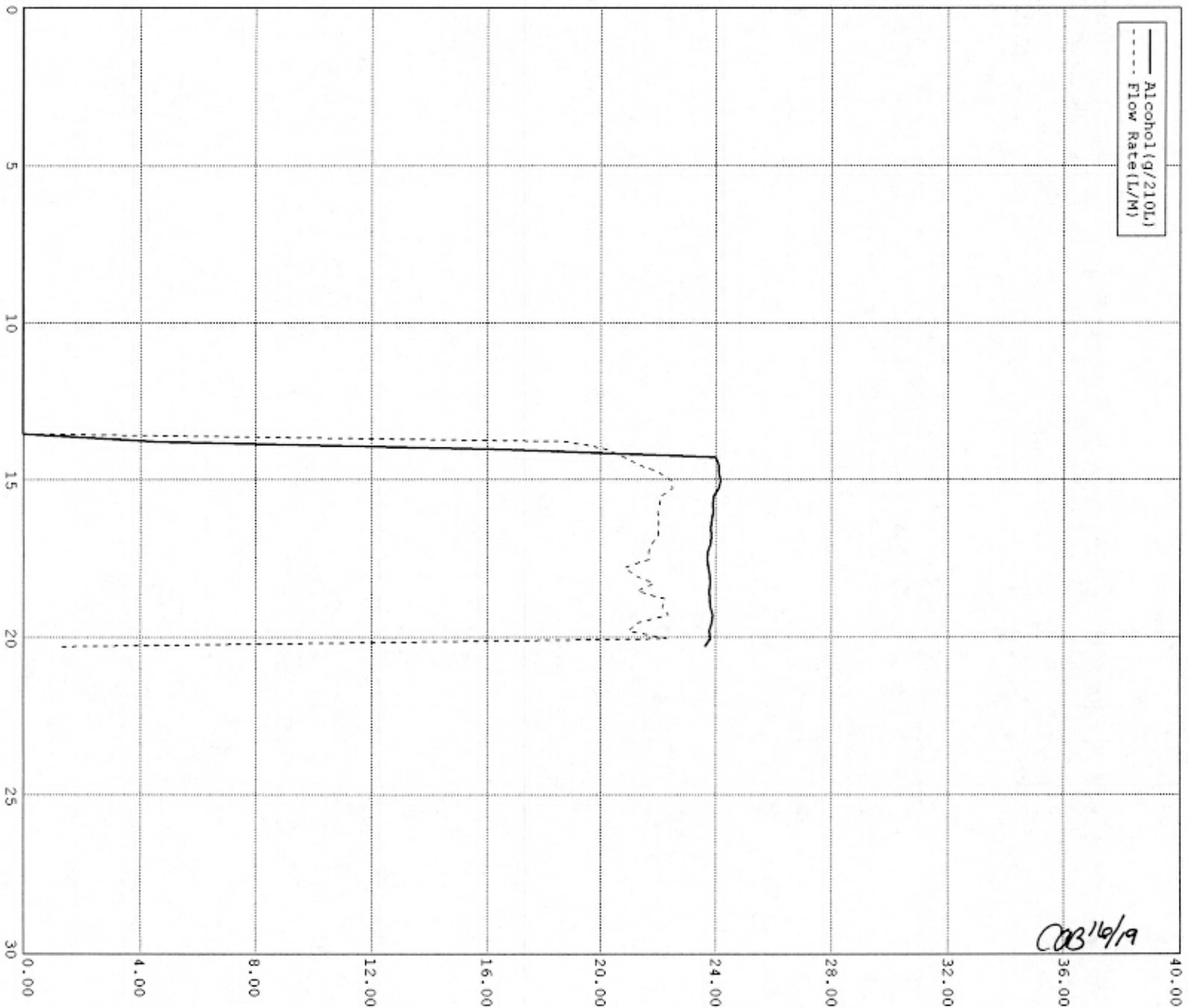
SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.39: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| DIAGNOSTIC CHECK | PASSED | 09:08 |
|-------------------------|--------------|-------|
| BLANK TEST | 0.000 | 09:08 |
| INTERNAL STANDARD | VERIFIED | 09:08 |
| Xq = 0.097 (0.64%) | | |
| EXTERNAL STANDARD | 0.079 | 09:08 |
| X[1] = 0.0796 (0.0007) | (0.0045) | |
| BLANK TEST | 0.000 | 09:09 |
| SUBJECT SAMPLE | INTERFERENCE | 09:10 |
| X[1] = 0.1185 (-0.0261) | (0.0039) | |



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100694

Date: 11/23/2012
Time: 09:18:50

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

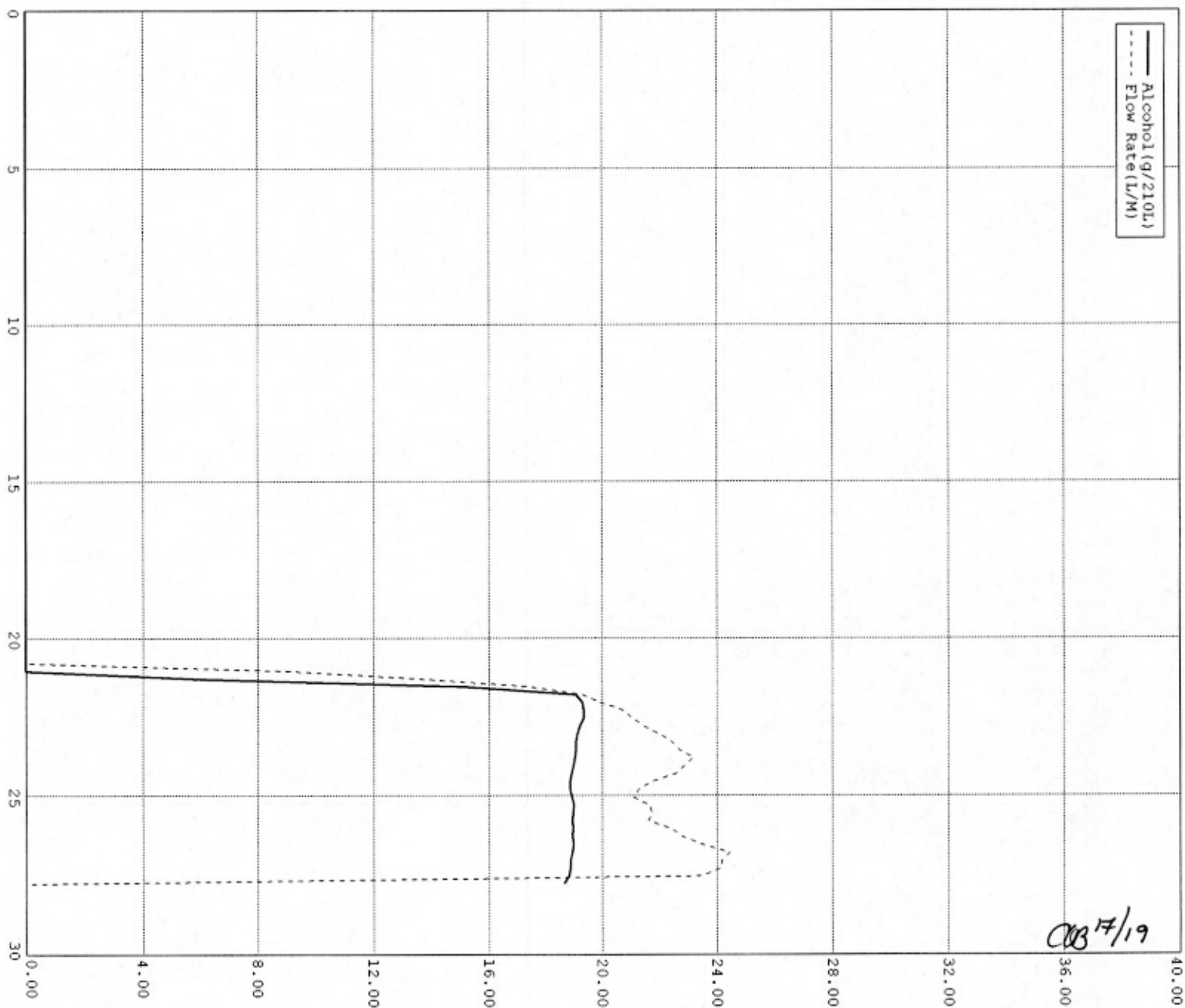
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.39: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| DIAGNOSTIC CHECK | PASSED | 09:19 |
|----------------------------------|----------|-------|
| BLANK TEST | 0.000 | 09:19 |
| INTERNAL STANDARD | VERIFIED | 09:20 |
| Xq = 0.097 (0.27%) | | |
| EXTERNAL STANDARD | 0.079 | 09:20 |
| X[1] = 0.0797 (0.0001) (0.0048) | | |
| BLANK TEST | 0.000 | 09:21 |
| SUBJECT SAMPLE (Vol=2.38L) | 0.093 | 09:21 |
| X[1] = 0.0932 (-0.0009) (0.0023) | | |
| BLANK TEST | 0.000 | 09:22 |
| EXTERNAL STANDARD | 0.079 | 09:22 |
| X[1] = 0.0790 (-0.0003) (0.0032) | | |
| BLANK TEST | 0.000 | 09:23 |

Q



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100694

Date: 11/23/2012
Time: 09:53:01

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

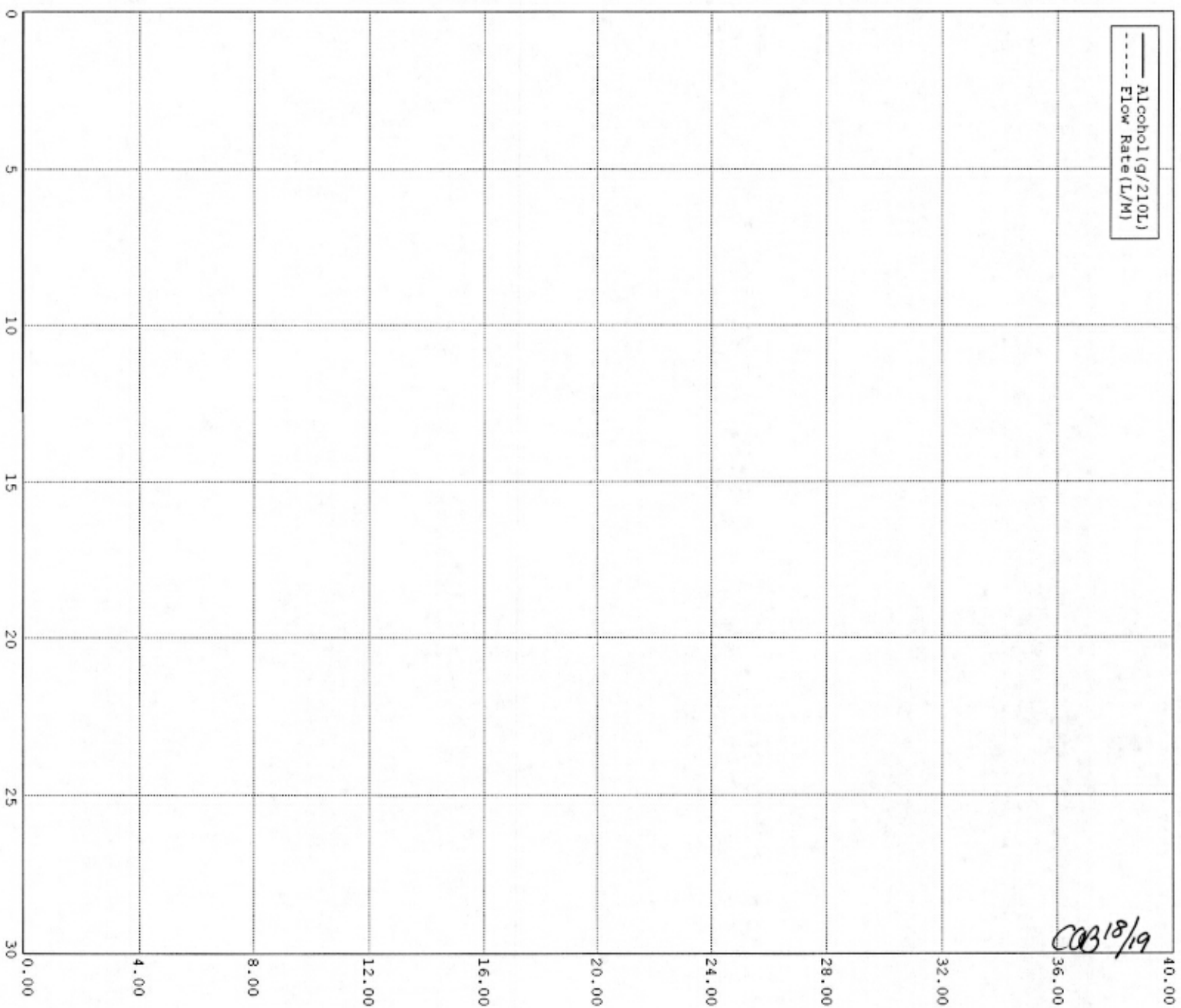
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.40: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

| DIAGNOSTIC CHECK | PASSED | 09:54 |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 09:54 |
| INTERNAL STANDARD | VERIFIED | 09:54 |
| EXTERNAL STANDARD | 0.079 | 09:54 |
| BLANK TEST | 0.000 | 09:55 |

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100694

Date: 11/23/2012
 Time: 10:11:30

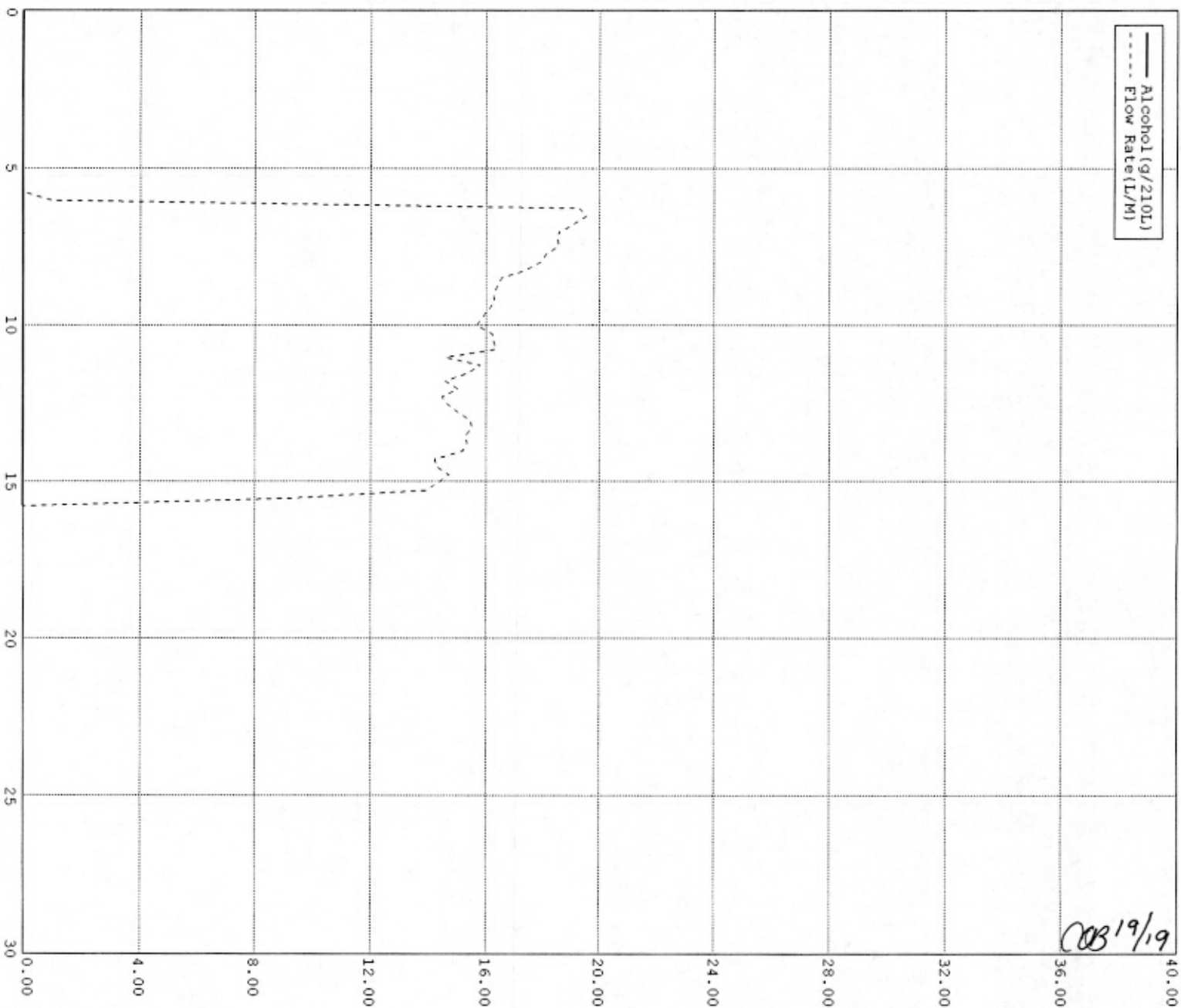
SUBJECT NAME:
 TEST TEST
 LICENSE #: NONDRINKING

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

DEPT/AGENCY:
 AAAl
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.41: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

| DIAGNOSTIC CHECK | PASSED | 10:12 |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 10:12 |
| INTERNAL STANDARD | VERIFIED | 10:12 |
| EXTERNAL STANDARD | 0.079 | 10:12 |
| BLANK TEST | 0.000 | 10:13 |
| SUBJECT SAMPLE | 0.000 | 10:14 |
| BLANK TEST | 0.000 | 10:15 |
| EXTERNAL STANDARD | 0.080 | 10:15 |
| BLANK TEST | 0.000 | 10:16 |



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Final page for report

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2/12/2014