

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 01/27/2012
Effective: 01/27/2012

Version: DMCEF2012 R0
Status: Active

Instrument S/N 100355Start Date 3/22/12Analyst Brandi BarnettDiagnostic 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)

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 3/1/2013ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/2013iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/2013v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/20131. Simulator S/N SD1176 Date Calibrated 8/17/2011vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/20131. Simulator S/N SD1202 Date Calibrated 8/17/2011

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/20131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/20121. Simulator S/N DR6267 Date Calibrated 01/10/2012d. 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 3/27/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 03/22/2012
Time: 14:25:56

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 46.7°C	PASSED

PUMP INFO

Flow Rate = 4.564 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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2/18/08 MB

Technician Screen

DATAMASTER dmt: 100355

Date: 03/22/2012
Time: 2:28 PM

Temperatures (°C)
Sample Cell: 49.0°C
Breath Tube: 46.9°C

Current Barometer 29.9 in
Volume (Ltr) 1.53

Settings
Lamp: 1.74 V
Bias: 80 V
Cooler: 1.76 V
Chopper: 535 Hz

Voltages (V)
Flow: 1.05 V
Detector: -0.043 V

3/18/12 MB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 03/12/2012
Time: 14:35:08

OPERATOR NAME;
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 0.994966 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0065 0.0010 <= b2 < 0.0100
b3 = 0.0004 0.0000 <= b3 < 0.0040
Xq = 0.0779 0.0500 <= Xq < 0.2000
a21 = 1.192575 1.050 <= a21 < 1.300
a31 = 0.523892 0.300 <= a31 < 0.800

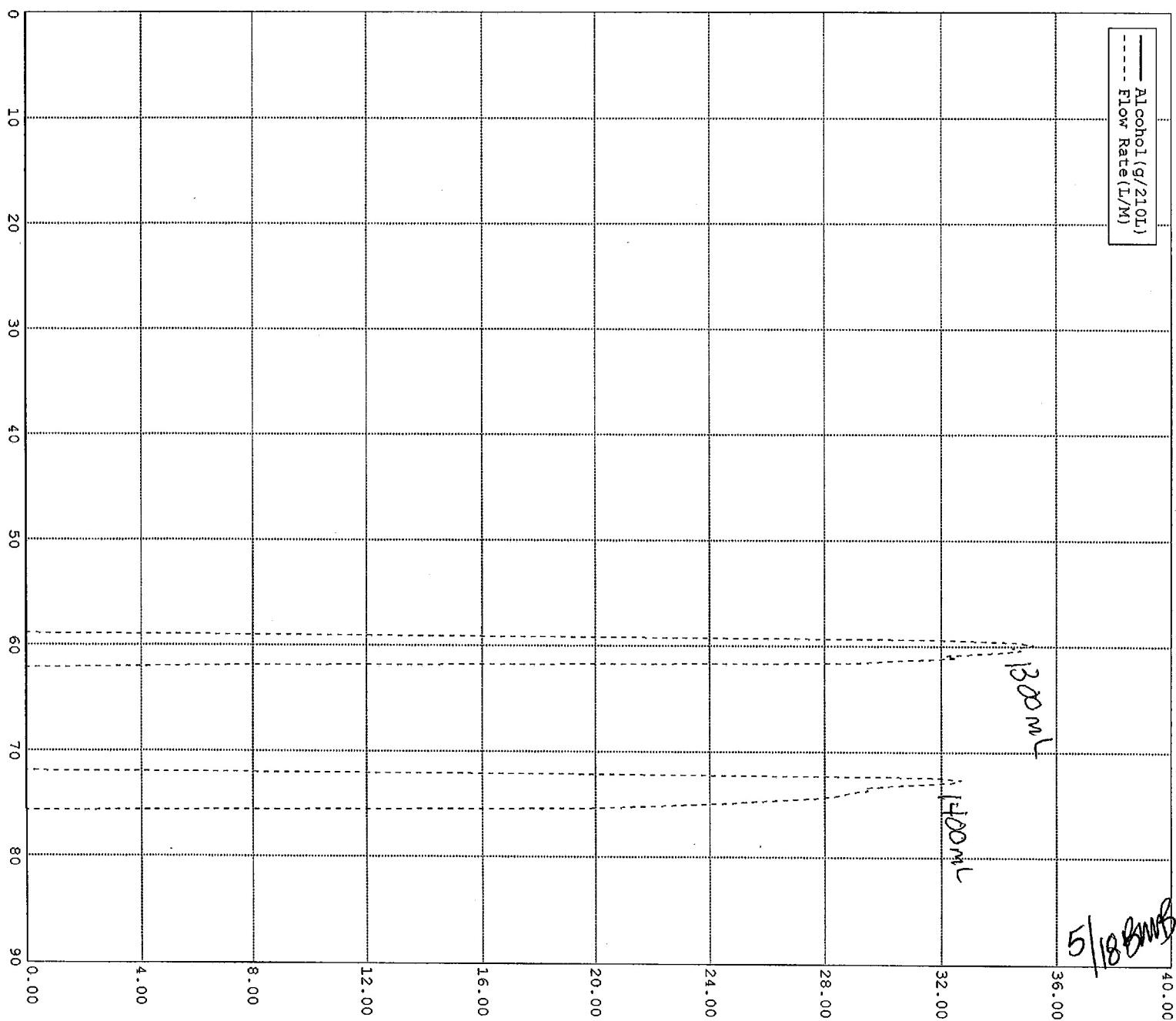
4/10/2012

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100355Date: 03/22/2012
Time: 14:31:22SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
MINIMUM VOLUME
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:33
BLANK TEST	0.000	14:33
INTERNAL STANDARD	VERIFIED	14:33
EXTERNAL STANDARD	0.078	14:33
BLANK TEST	0.000	14:34
SUBJECT SAMPLE	0.000	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.078	14:37
BLANK TEST	0.000	14:38

BMB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100355

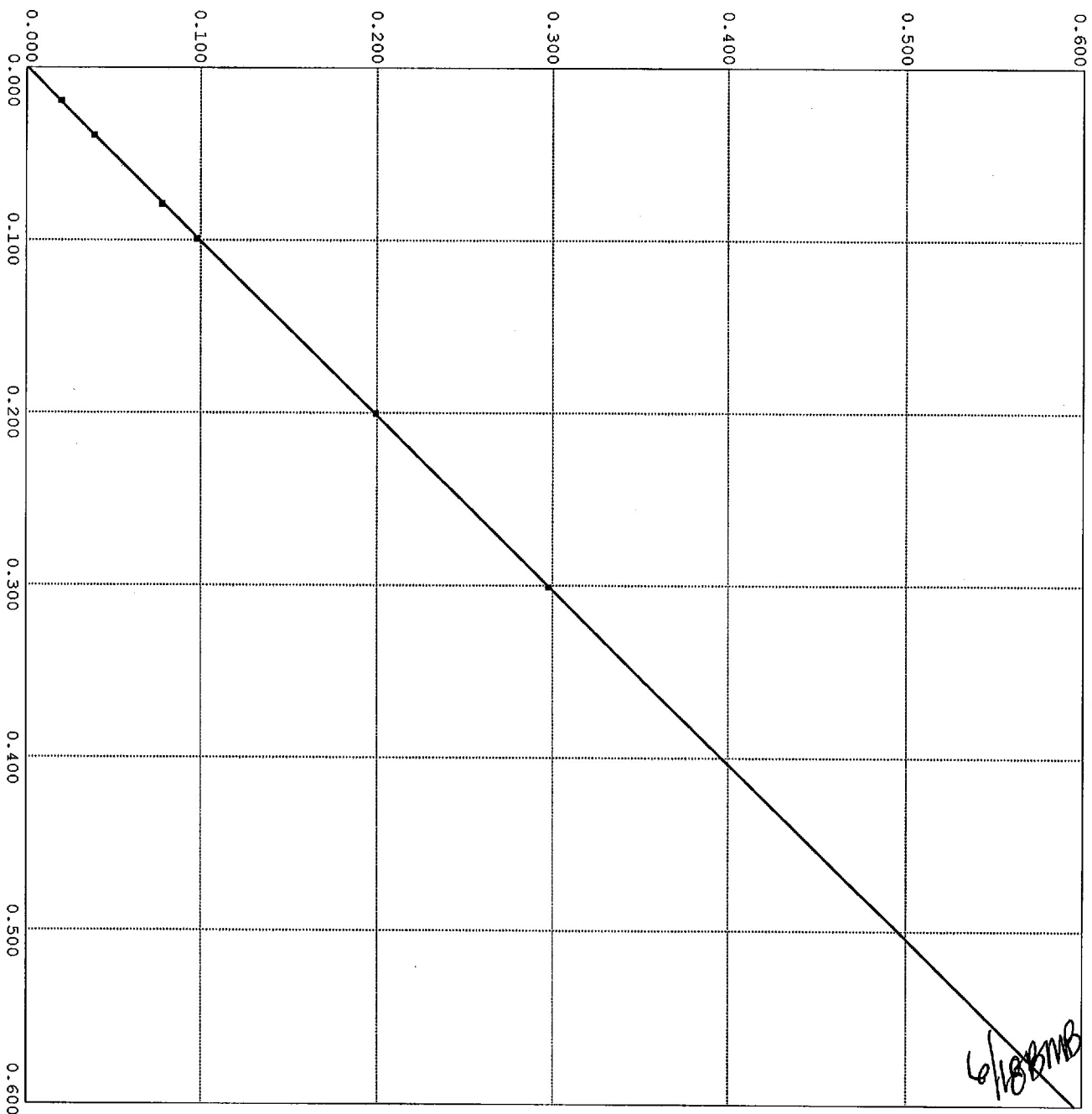
Date: 03/22/2012
 Time: 14:48:16

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0207	0.0002
0.039	0.0398	0.0001
0.079	0.0785	0.0002
0.099	0.0989	0.0003
0.200	0.2002	0.0002
0.300	0.2983	0.0007

SLOPE = 0.991322
 R^2 = 0.999958

BB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100355

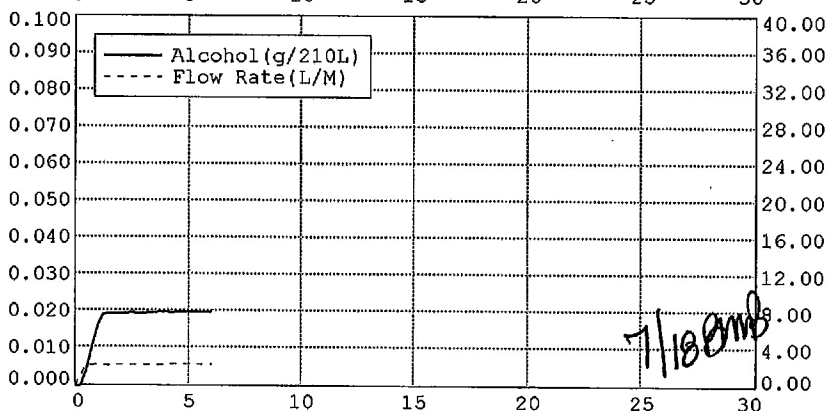
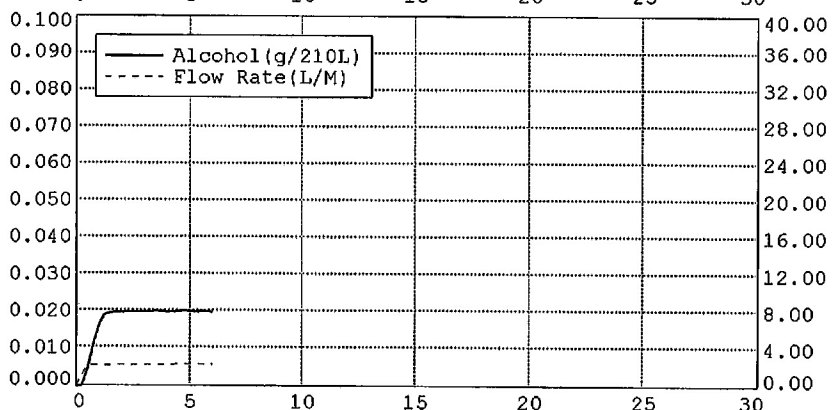
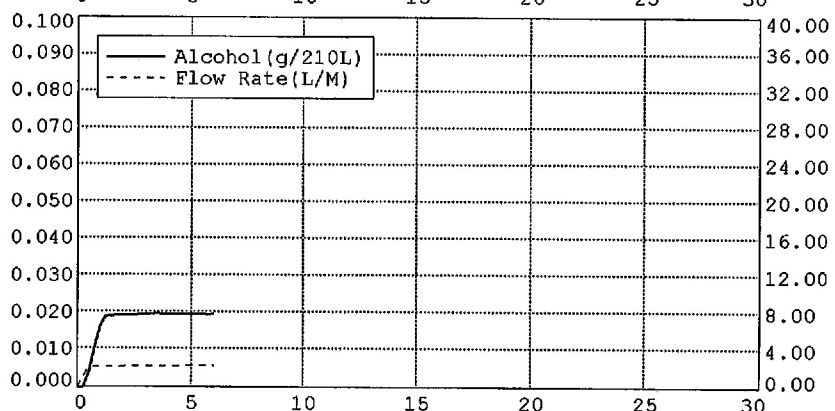
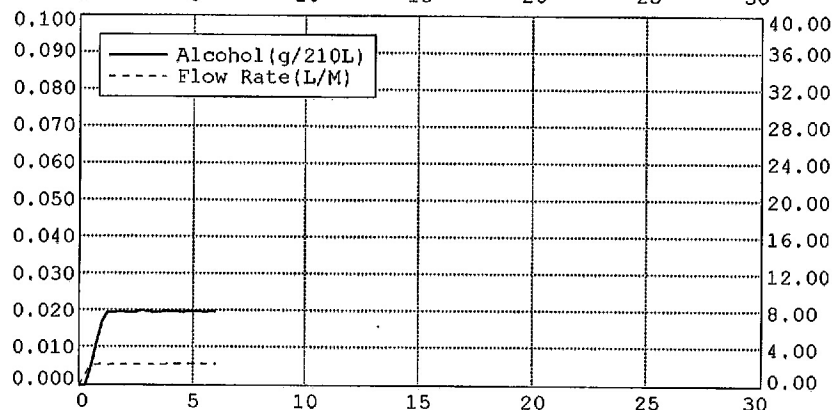
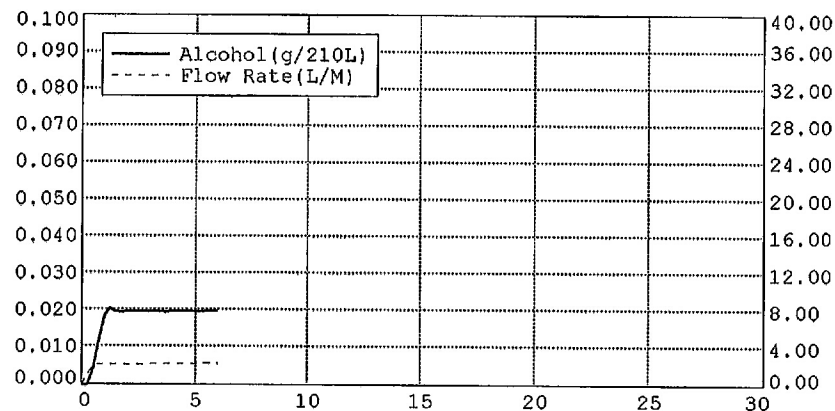
Date: 03/22/2012
Time: 14:48:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.91: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.020	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.021	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.020	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.020	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.020	14:54
BLANK TEST	0.000	14:55

Average = 0.0207
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 03/22/2012
Time: 15:05:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040

TARGET AT 29.92: 0.039

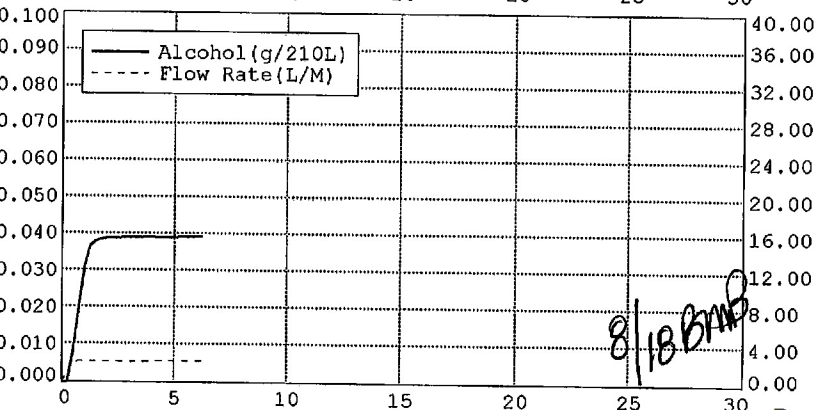
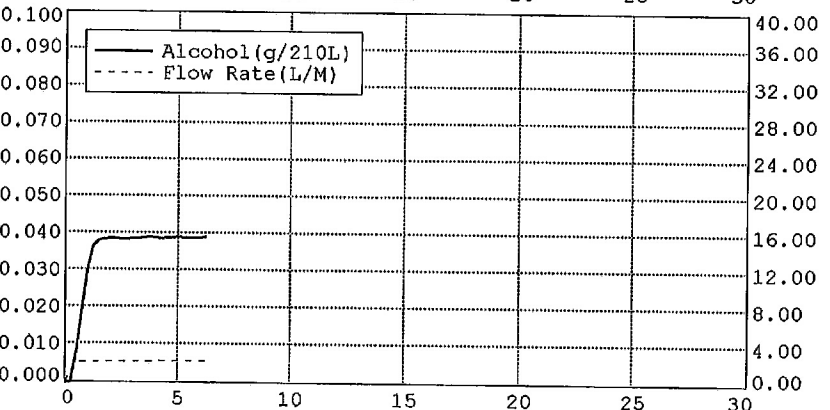
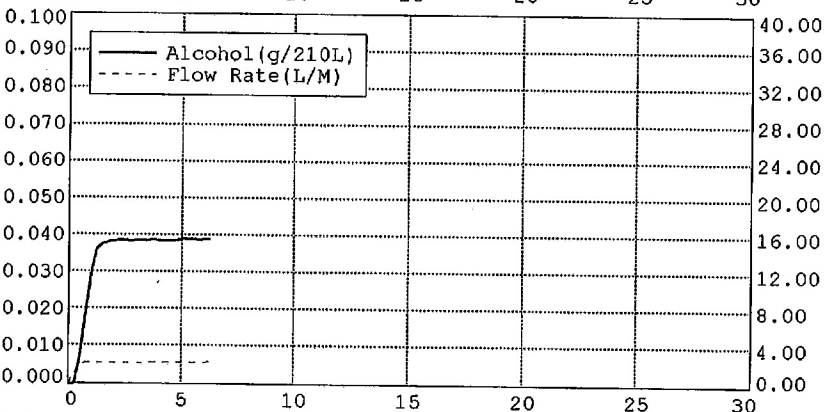
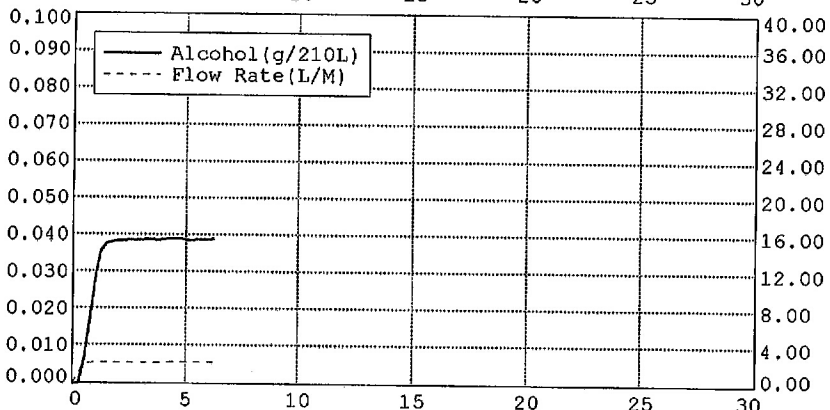
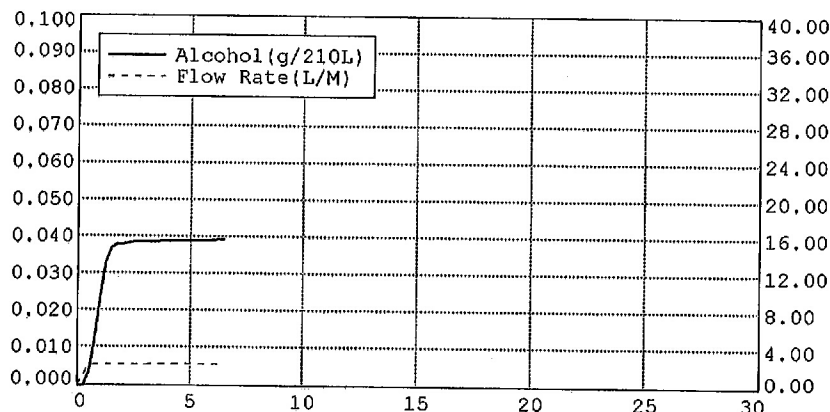
LOT #: 029111040A2 02811040A2 *BMB 5/2/12*

EXPIRATION: 02/01/2013

BLANK TEST	0.000	15:06
INTERNAL STANDARD	VERIFIED	15:06
EXTERNAL STANDARD	0.039	15:06
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.039	15:07
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.039	15:08
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.039	15:10
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.040	15:11
BLANK TEST	0.000	15:12

Average = 0.0398

Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100355

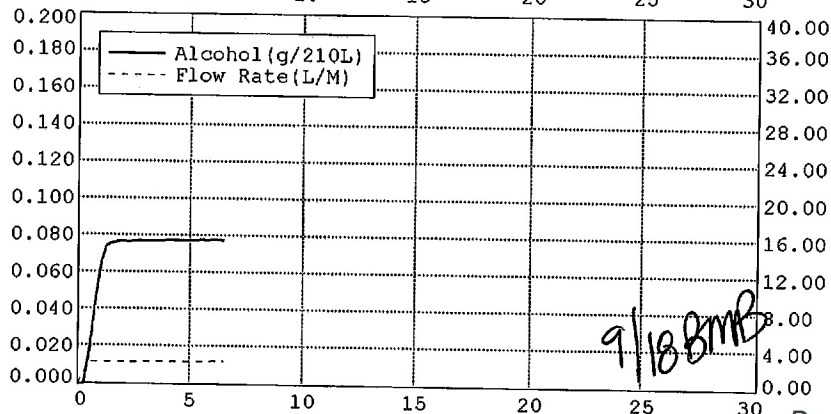
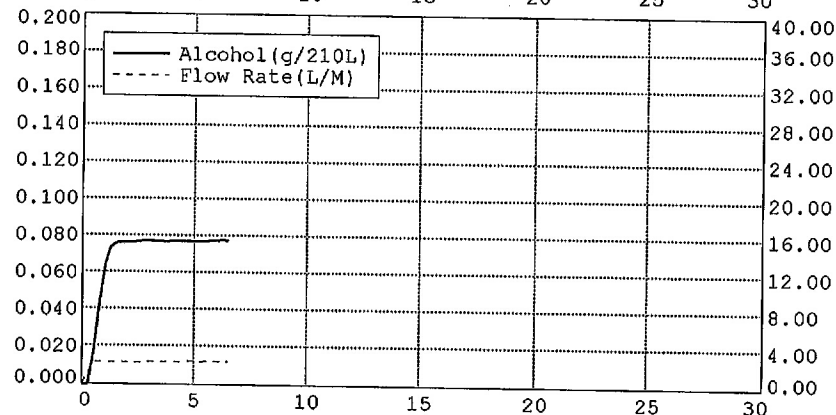
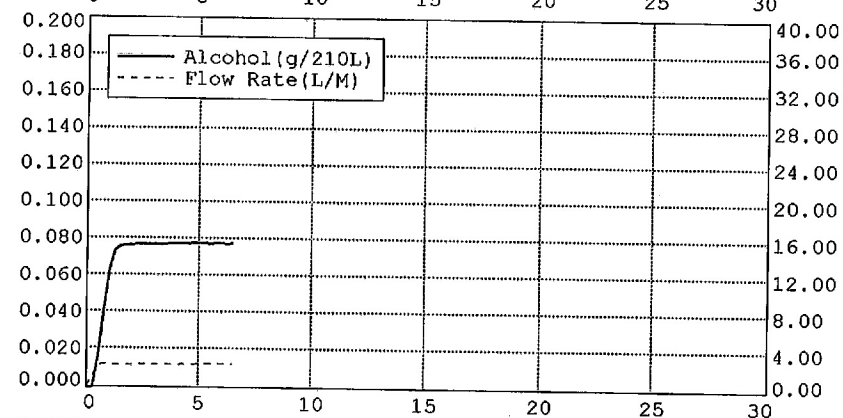
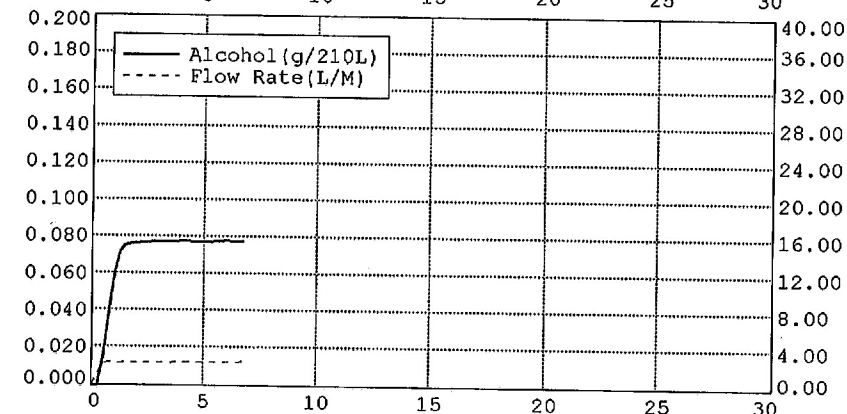
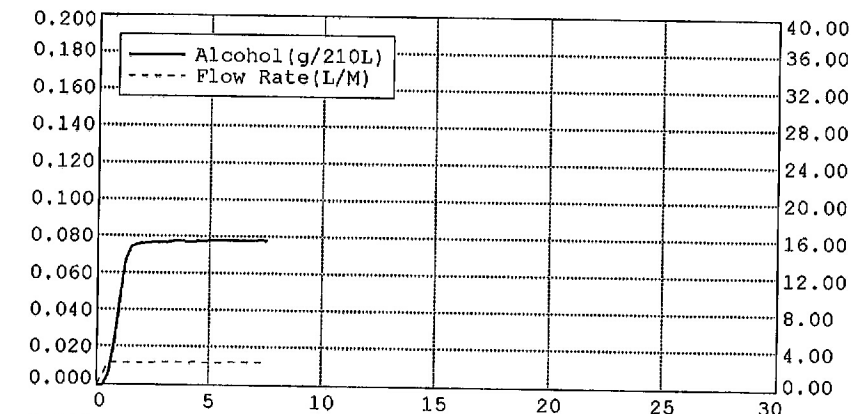
Date: 03/22/2012
Time: 15:24:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.92: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:25
INTERNAL STANDARD	VERIFIED	15:25
EXTERNAL STANDARD	0.078	15:25
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.078	15:26
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.078	15:27
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.078	15:28
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.078	15:29
BLANK TEST	0.000	15:30

Average = 0.0785
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100355

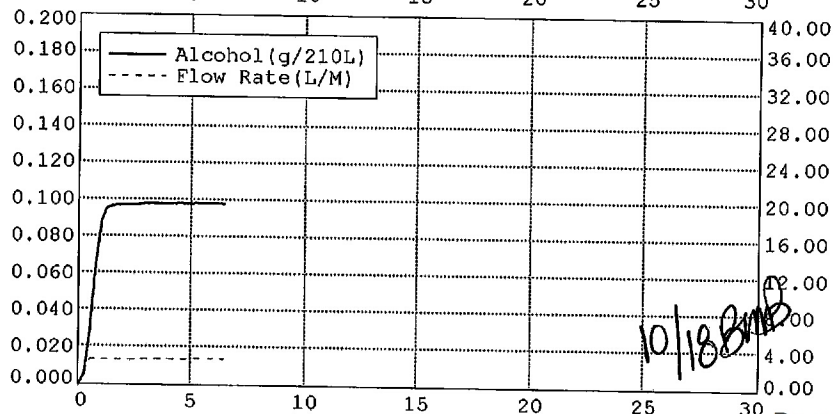
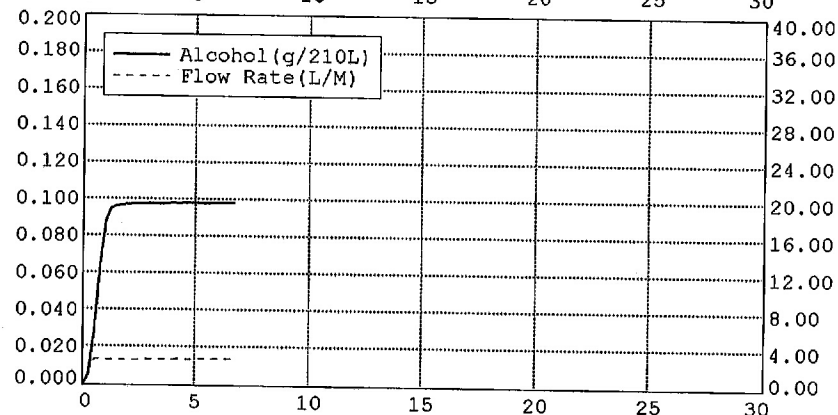
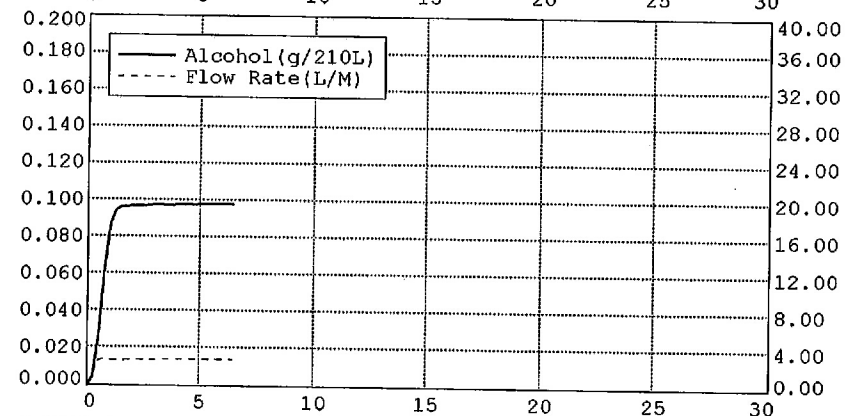
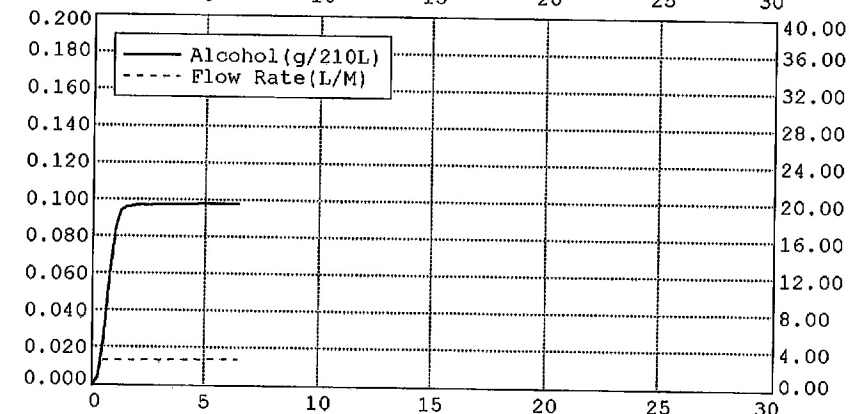
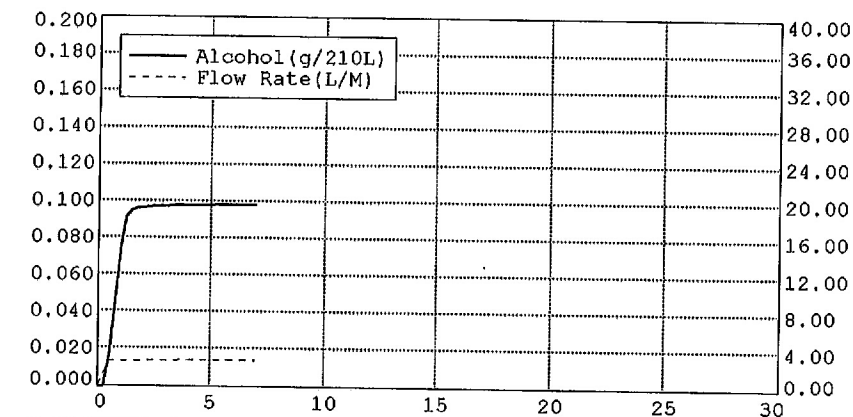
Date: 03/22/2012
Time: 15:35:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.92: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:36
INTERNAL STANDARD	VERIFIED	15:36
EXTERNAL STANDARD	0.099	15:36
BLANK TEST	0.000	15:37
EXTERNAL STANDARD	0.098	15:38
BLANK TEST	0.000	15:39
EXTERNAL STANDARD	0.098	15:39
BLANK TEST	0.000	15:40
EXTERNAL STANDARD	0.099	15:40
BLANK TEST	0.000	15:41
EXTERNAL STANDARD	0.099	15:41
BLANK TEST	0.000	15:42

Average = 0.0989
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 03/22/2012
Time: 15:44:25

EXTERNAL STANDARD INFORMATION

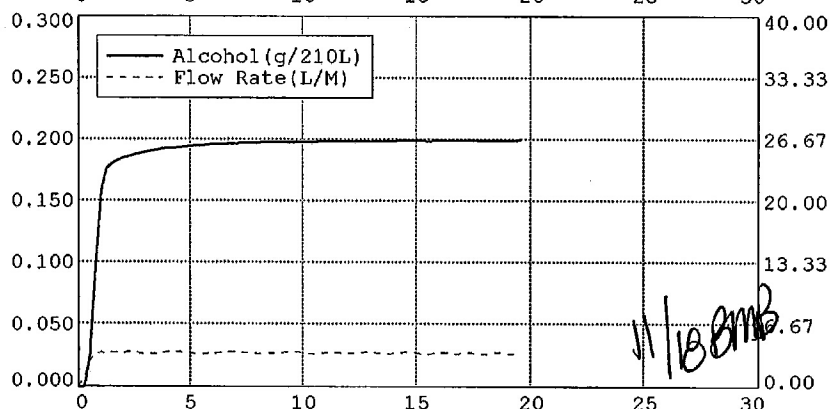
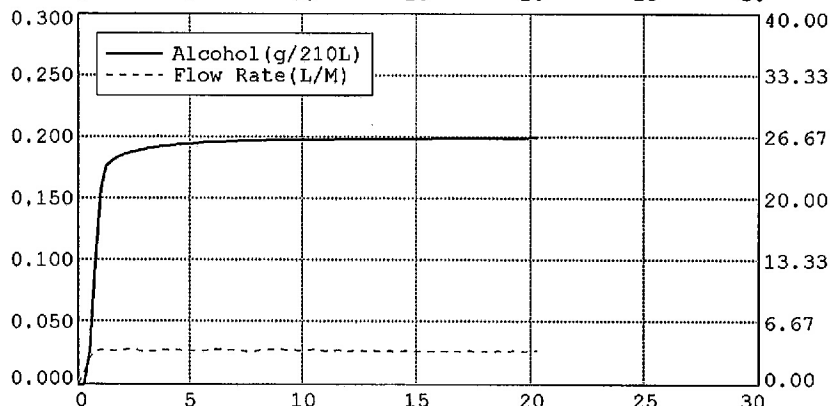
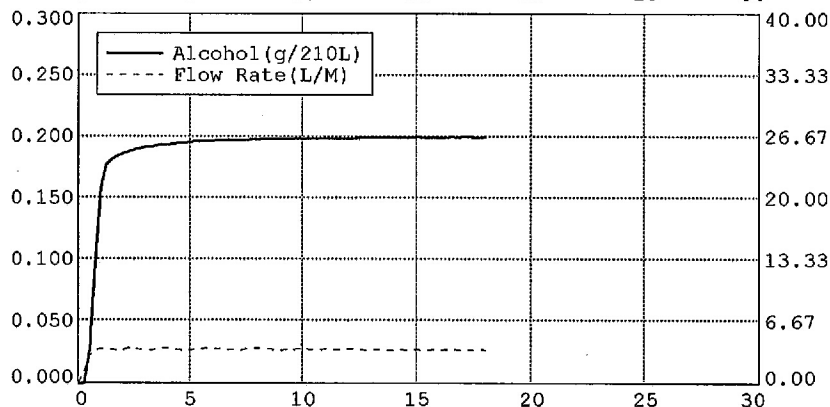
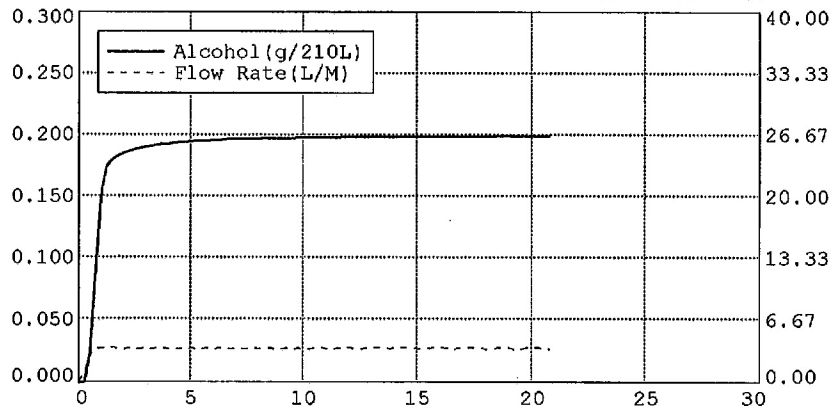
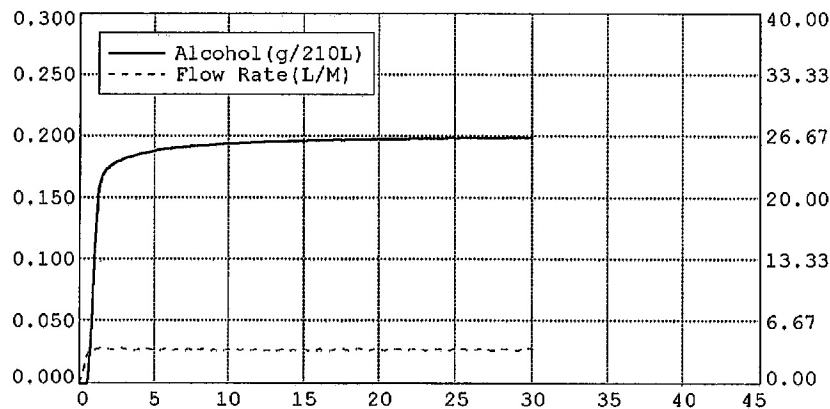
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:46
EXTERNAL STANDARD	0.199	15:46
BLANK TEST	0.000	15:47
EXTERNAL STANDARD	0.200	15:48
BLANK TEST	0.000	15:49
EXTERNAL STANDARD	0.200	15:49
BLANK TEST	0.000	15:50
EXTERNAL STANDARD	0.200	15:50
BLANK TEST	0.000	15:51
EXTERNAL STANDARD	0.200	15:52
BLANK TEST	0.000	15:53

Average = 0.2002
Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100355

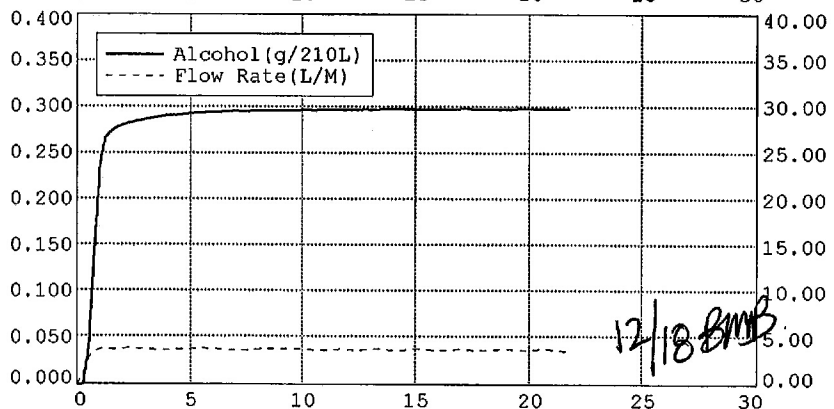
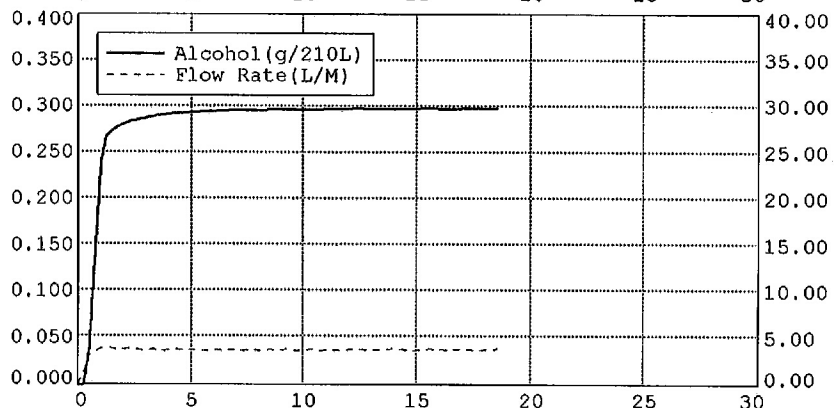
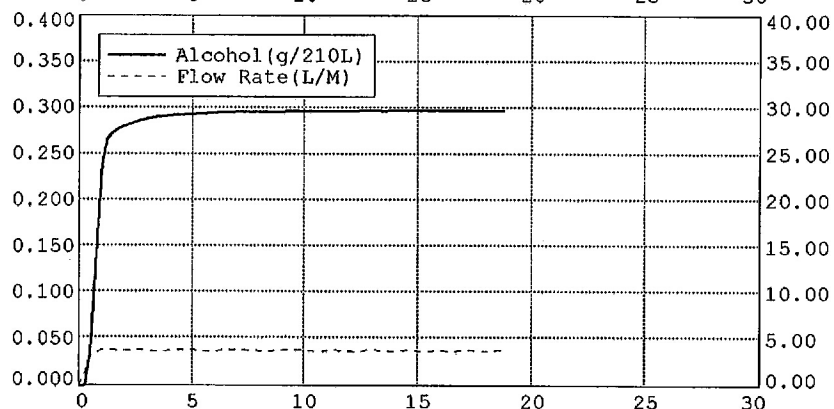
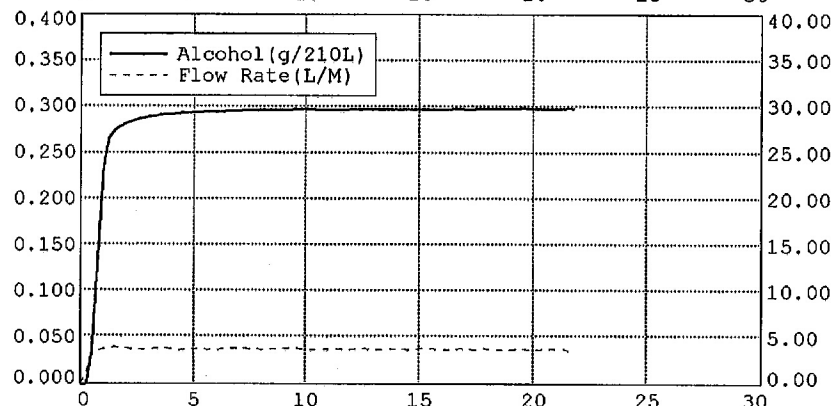
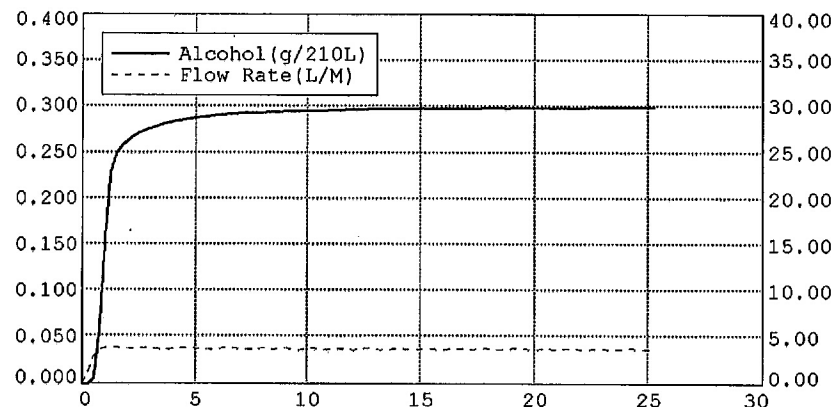
Date: 03/22/2012
Time: 15:55:11

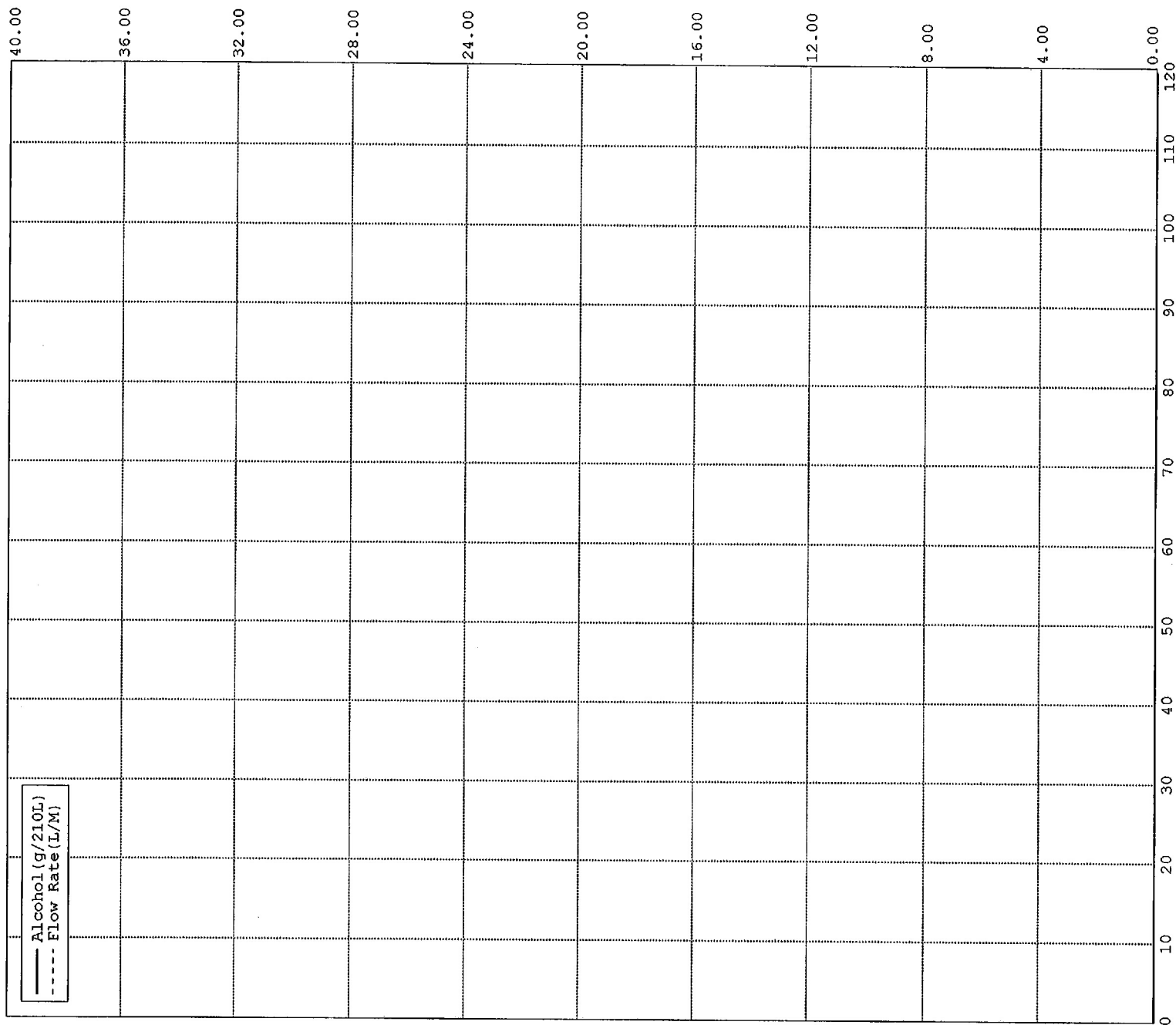
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:56
INTERNAL STANDARD	VERIFIED	15:56
EXTERNAL STANDARD	0.299	15:57
BLANK TEST	0.000	15:58
EXTERNAL STANDARD	0.298	15:58
BLANK TEST	0.000	15:59
EXTERNAL STANDARD	0.297	15:59
BLANK TEST	0.000	16:00
EXTERNAL STANDARD	0.297	16:01
BLANK TEST	0.000	16:02
EXTERNAL STANDARD	0.298	16:02
BLANK TEST	0.000	16:03

Average = 0.2983
Std Dev = 0.0007





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 03/23/2012
Time: 11:08:10

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

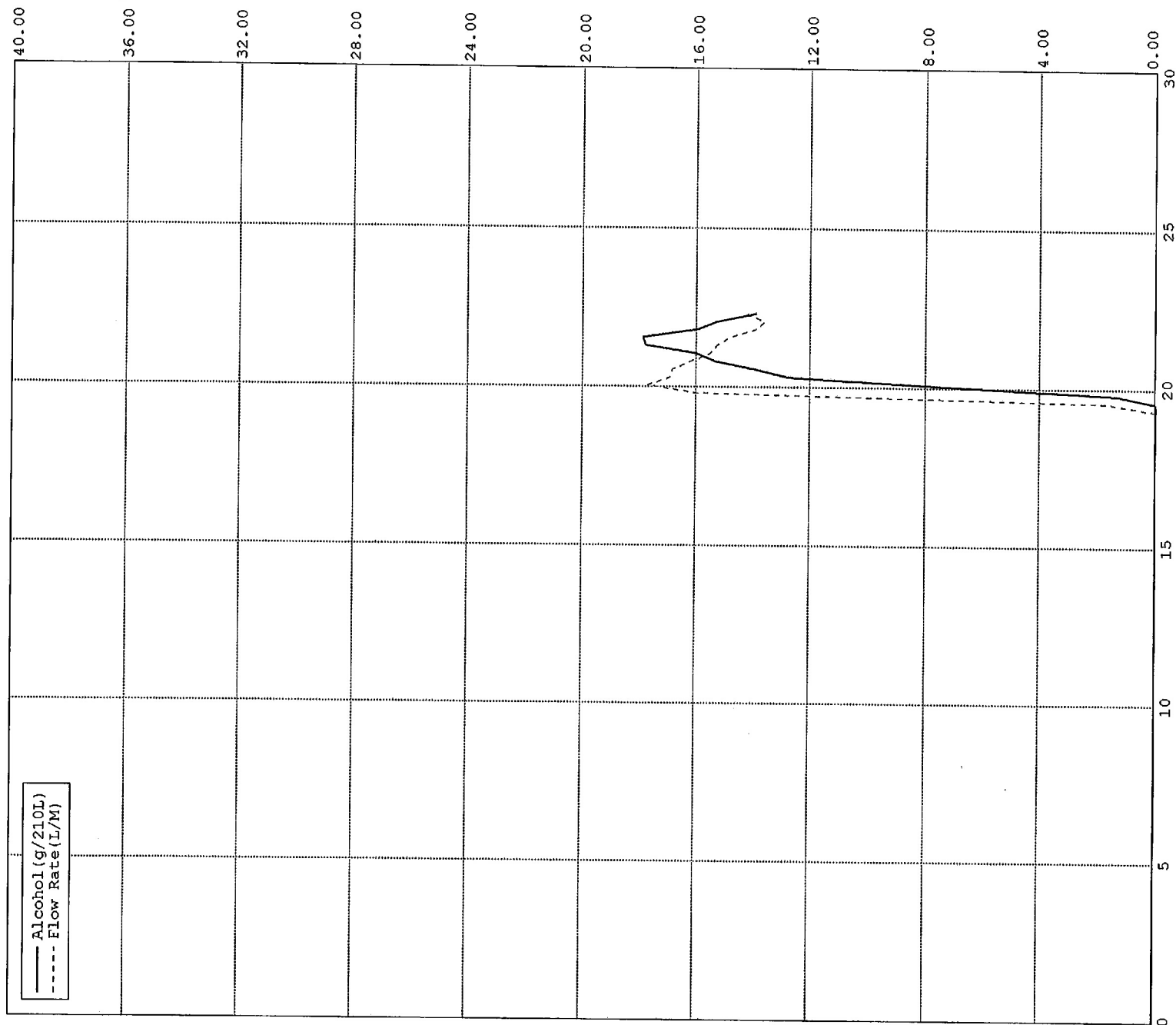
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.90: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:09
BLANK TEST	0.000	11:09
INTERNAL STANDARD	VERIFIED	11:09
EXTERNAL STANDARD	0.078	11:09
BLANK TEST	0.000	11:10
SUBJECT SAMPLE	INCOMPLETE	11:12

13/18 BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 03/23/2012
Time: 12:11:17

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

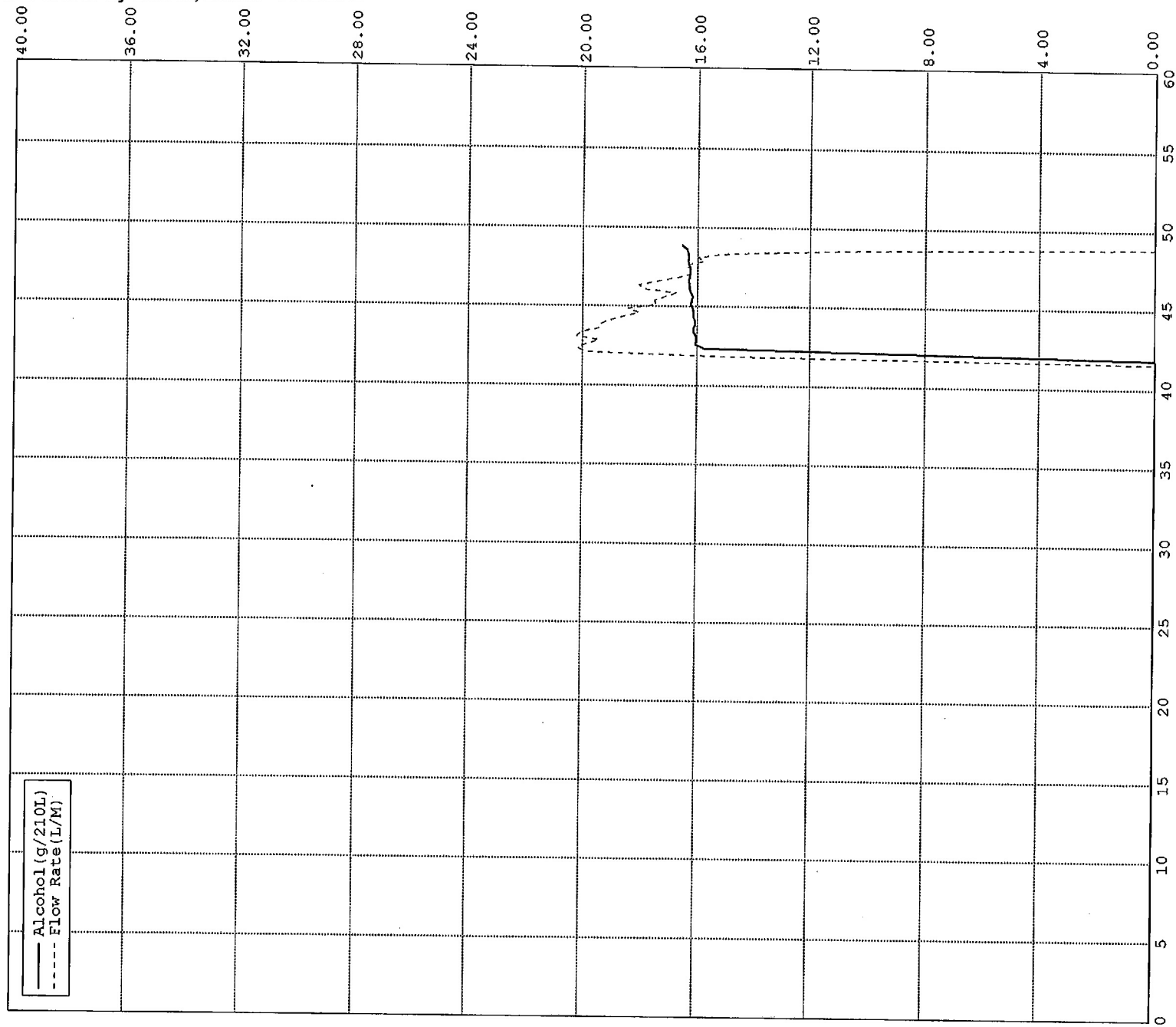
DEPT/AGENCY:
INVALID KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.90: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	12:12
BLANK TEST	0.000	12:12
INTERNAL STANDARD	VERIFIED	12:12
EXTERNAL STANDARD	0.078	12:12
BLANK TEST	0.000	12:13
SUBJECT SAMPLE	INVALID	12:14

BNB

14/18 BNB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100355

Date: 03/23/2012
 Time: 12:23:22

SUBJECT NAME:

TEST TEST

LICENSE #: INTERFERE

OPERATOR NAME:

BRANDI BARNETT

OPERATOR'S #: 7038

DEPT/AGENCY:

ACETONE AND ETOH

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.90: 0.079

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

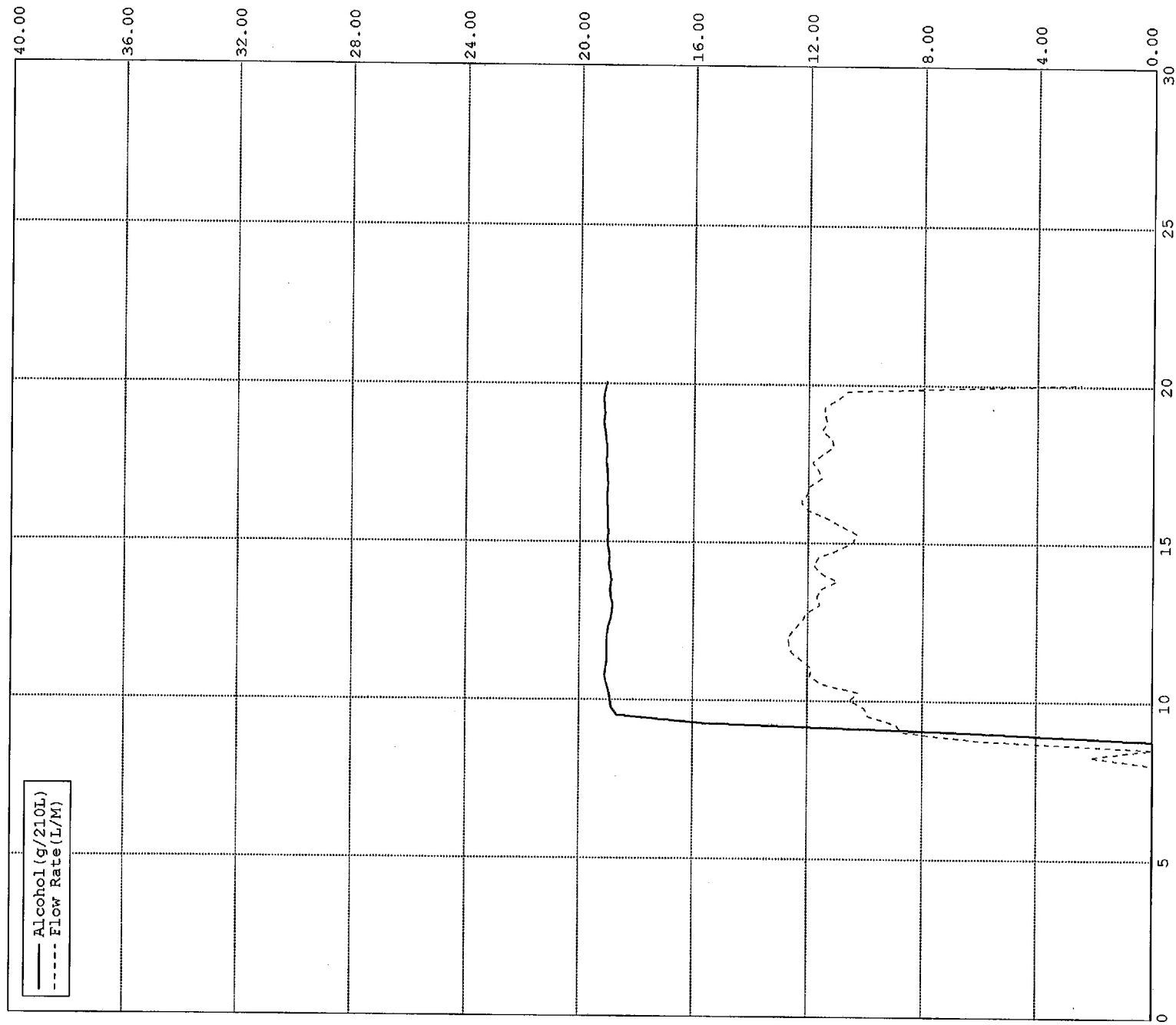
BLANK TEST

SUBJECT SAMPLE

PASSED 12:24
 0.000 12:24
 VERIFIED 12:24
 0.078 12:25
 0.000 12:26
 INTERFERENCE 12:26

Handwritten signature/initials

15/18 *Handwritten initials*



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100355

Date: 03/23/2012
 Time: 12:29:05

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE
 OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

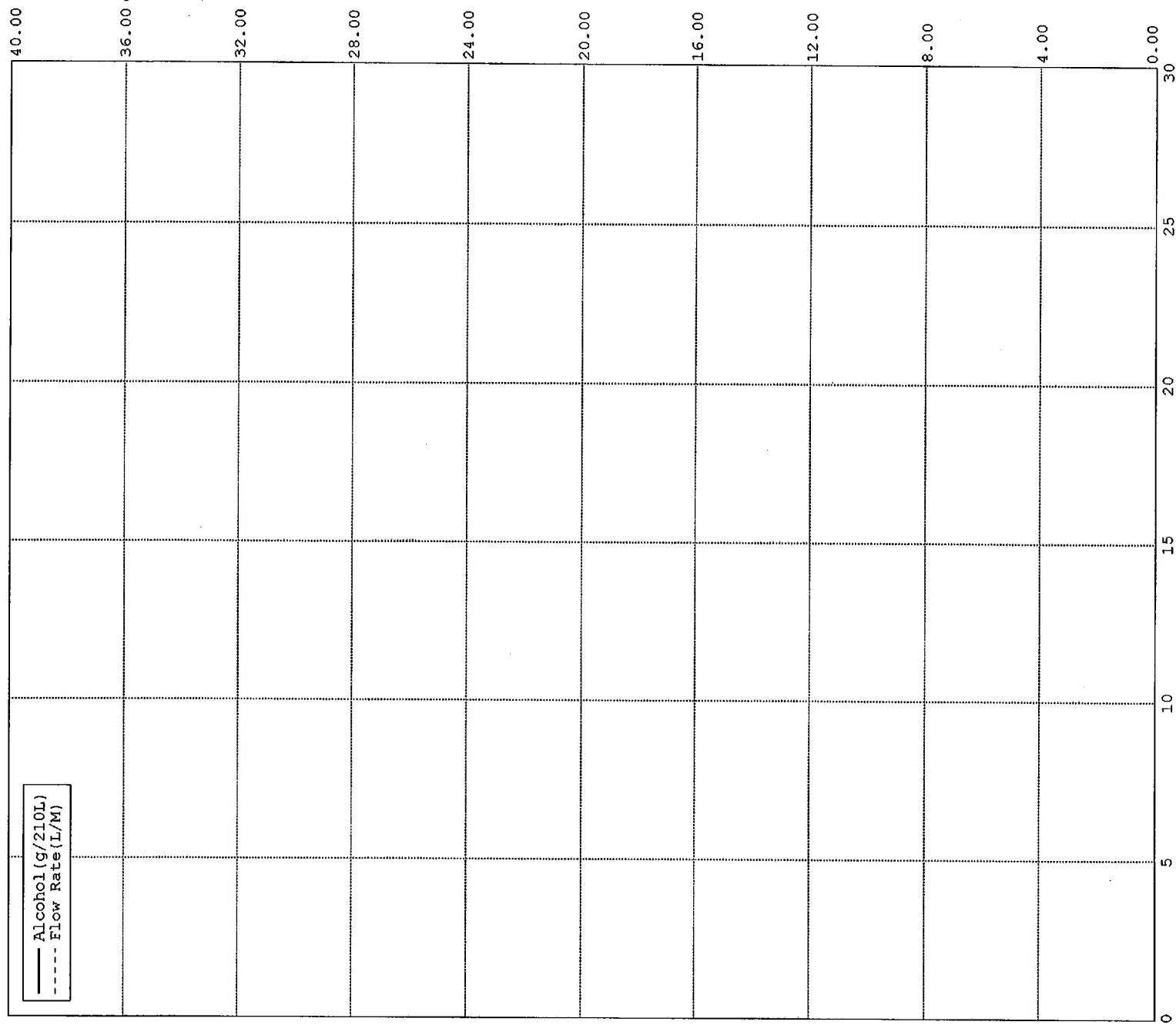
DEPT/AGENCY:
 ISOPROPANOL AND ETOH
 CASE/REPORT: XXXX
 TEST TYPE: TEST

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

DIAGNOSTIC CHECK	PASSED	12:30
BLANK TEST	0.000	12:30
INTERNAL STANDARD	VERIFIED	12:30
EXTERNAL STANDARD	0.079	12:30
BLANK TEST	0.000	12:31
SUBJECT SAMPLE	INTERFERENCE	12:32

Handwritten signature: BMB

Handwritten date: 16/10/2012



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 03/23/2012
Time: 12:17:48

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

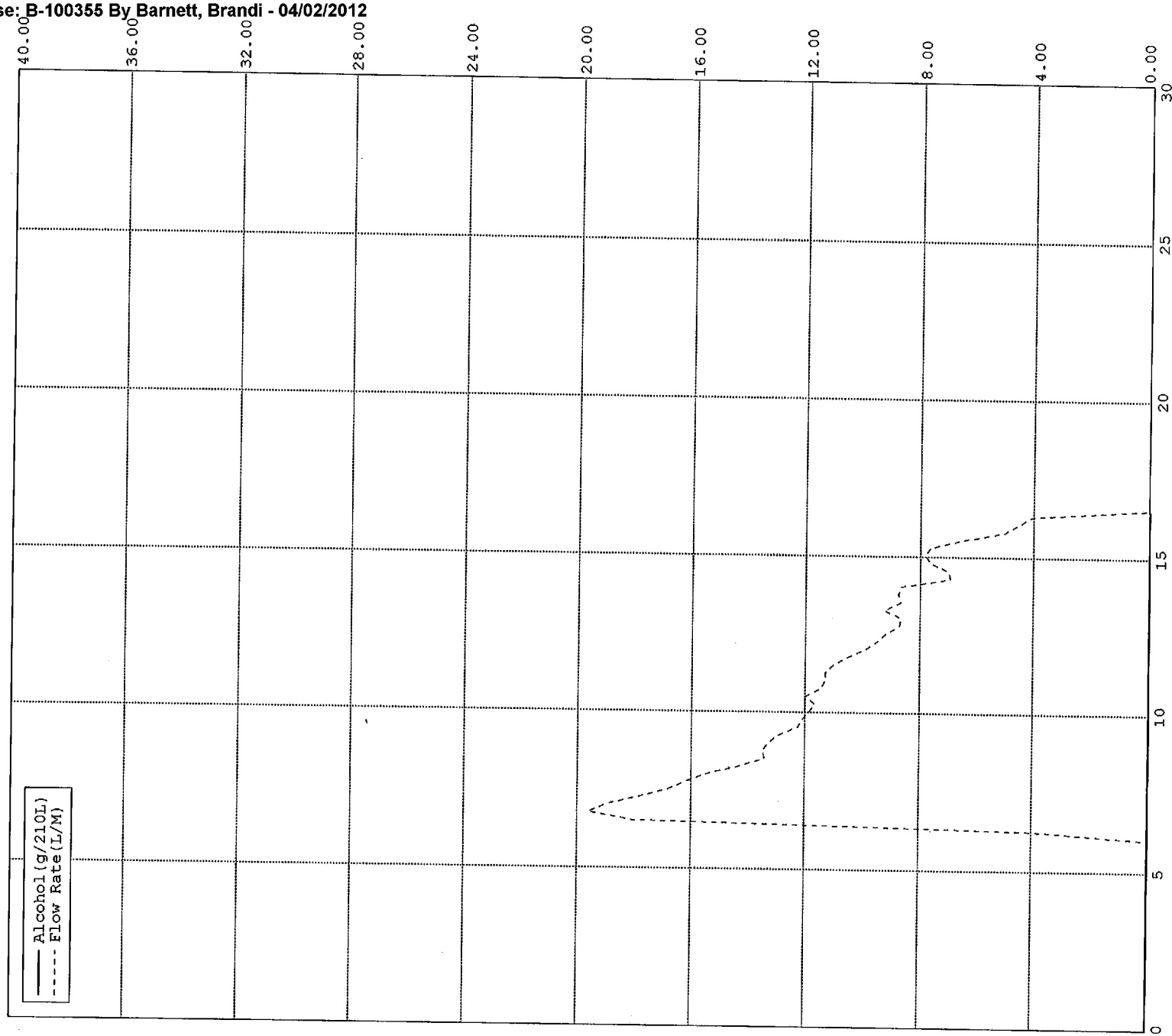
DEPT/AGENCY:
RADIO FREQUENCY INTERFERE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.90: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK
BLANK TEST PASSED 12:19
INTERNAL STANDARD VERIFIED 12:19
EXTERNAL STANDARD 0.078 12:19
BLANK TEST 0.000 12:20

RFI DETECTED

17/18 BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 03/23/2012
Time: 13:06:50

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 29.89: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:08
BLANK TEST	0.000	13:08
INTERNAL STANDARD	VERIFIED	13:08
EXTERNAL STANDARD	0.078	13:08
BLANK TEST	0.000	13:09
SUBJECT SAMPLE	0.000	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.079	13:11
BLANK TEST	0.000	13:11

10/10 BMB