

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100410 Analyst Brandi Barnett Start Date 8/14/12

Diagnostic Test (attached)

1. Voltage Checks

a. Adjust voltages, if needed

- i. Lamp (2.6V Maximum)
- ii. Bias (80V)
- iii. Cooler (2.0V Maximum)

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 1600 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 3/1/13

ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13

iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/1/13 ^{BMB} 03/1/14

iv. 0.100g/210L Mnf ILMO Lot 0761100A3 Exp 03/1/2013

v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/13

1. Simulator S/N SD1198 Date Calibrated 01/10/2012

vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/13

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 11250 Level 0.100 Exp 12/6/2013

1. Simulator S/N SD1199 Date Calibrated 01/11/12

ii. Isopropanol - Mnf Guth Lot 11100 Level 0.100 Exp 7/6/13

1. Simulator S/N DR6267 Date Calibrated 01/10/2012

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N DR4176 Date Calibrated 02/21/12

d. RFI

6. Verify stylus is calibrated

10. Verification of Calibration

7. Verify card reader is functional

11. Non-Drinking Subject Test (attached)

8. Reset Options

12. Upload

9. Clear Memory

13. Update agency information and polling status in DM Host Calling Program A/A

End Date 8/17/12

1/19 BMB

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 08/14/2012
Time: 15:17:01

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 46.6°C PASSED

PUMP INFO
Flow Rate = 5.626 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

2/19/08 MB

Technician Screen

DATAMASTER dmt: 100410

Date: 08/14/2012
Time: 3:22 PM

Temperatures (°C)

Sample Cell: 48.6°C
Breath Tube: 44.9°C

Current Barometer 30.0 in
Volume (Ltr) 1.47

Settings

Lamp: 1.67 V
Bias: 80 V
Cooler: 1.72 V
Chopper: 534 Hz

Voltages (V)

Flow: 1.05 V
Detector: -0.085 V

3/19/12 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 06/01/2011
Time: 09:04:36

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: REPC0100
BOTTLE #: 10003
EXPIRATION: 09/08/2012

Ca = 0.1000
CAL = 0.973587 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0066 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0869 0.0500 <= Xq < 0.2000
a21 = 1.207265 1.050 <= a21 < 1.300
a31 = 0.452869 0.300 <= a31 < 0.800

4/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100410

Date: 08/14/2012
Time: 15:25:42

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

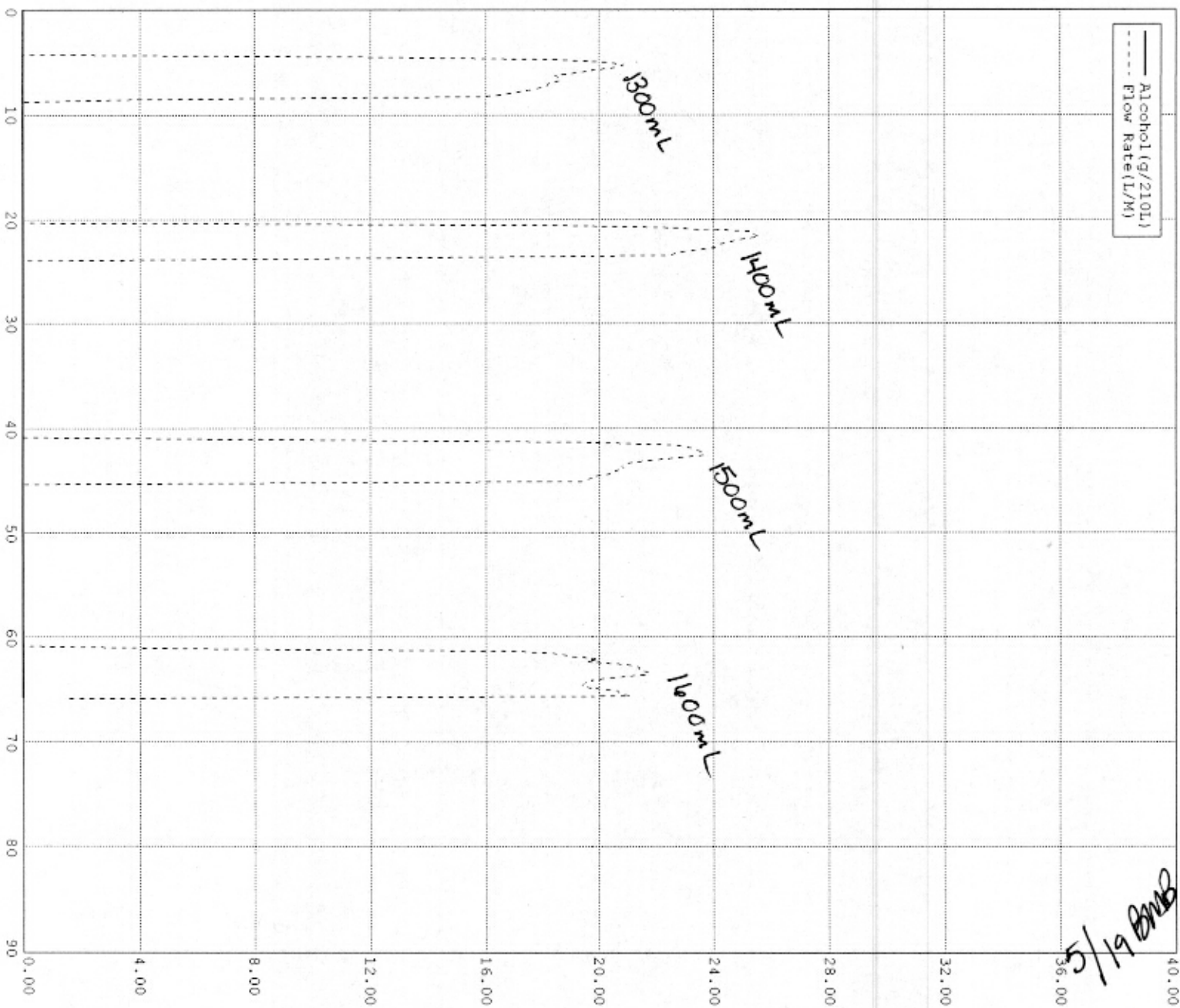
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:26
BLANK TEST	0.000	15:26
INTERNAL STANDARD	VERIFIED	15:27
EXTERNAL STANDARD	0.079	15:27
BLANK TEST	0.000	15:28
SUBJECT SAMPLE	0.000	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.079	15:30
BLANK TEST	0.000	15:31

BBMB



LINEARITY CHECK

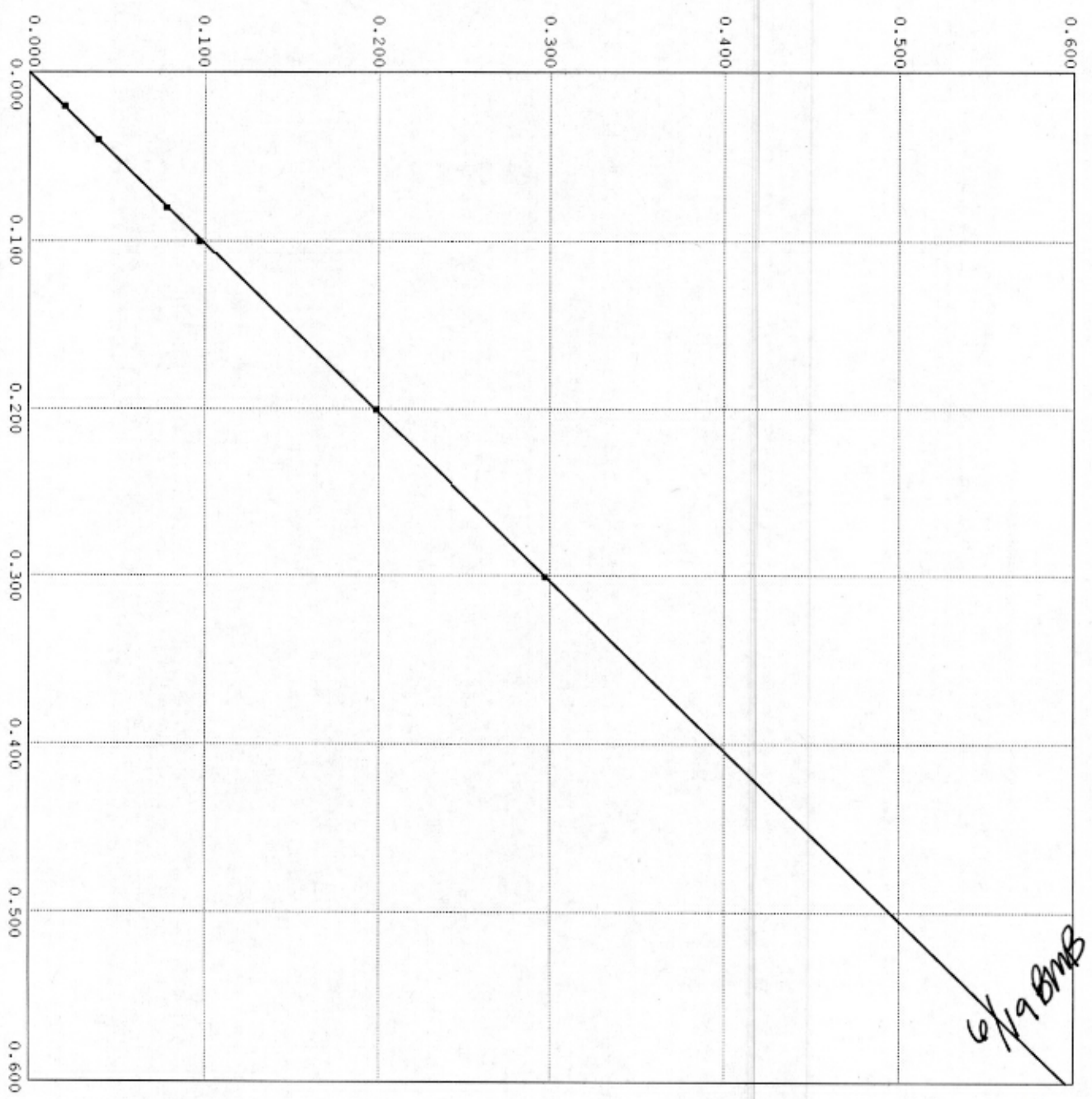
Alaska Department of Public Safety
DATAMASTER dnt: 100410

Date: 08/15/2012
Time: 13:10:48

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0207	0.0002
0.040	0.0401	0.0001
0.080	0.0792	0.0002
0.100	0.0979	0.0003
0.200	0.1994	0.0004
0.300	0.2979	0.0007

SLOPE = 0.992751
R² = 0.999935



BMB

LINEARITY CHECK: Control Test 1

 Alaska Department of Public Safety
 DATAMASTER dmt: 100410

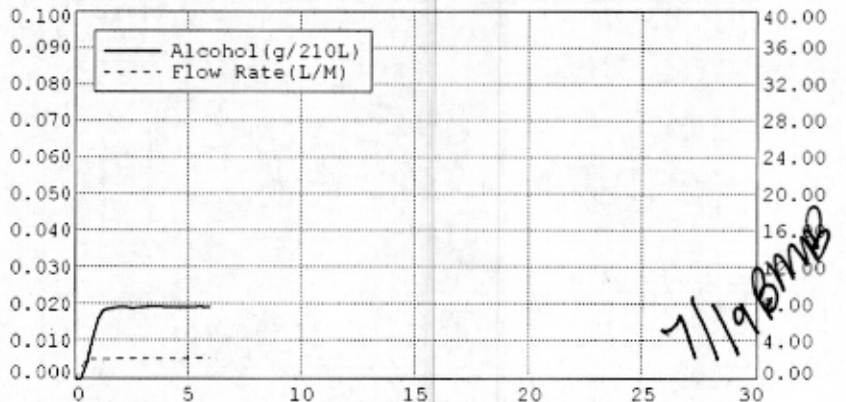
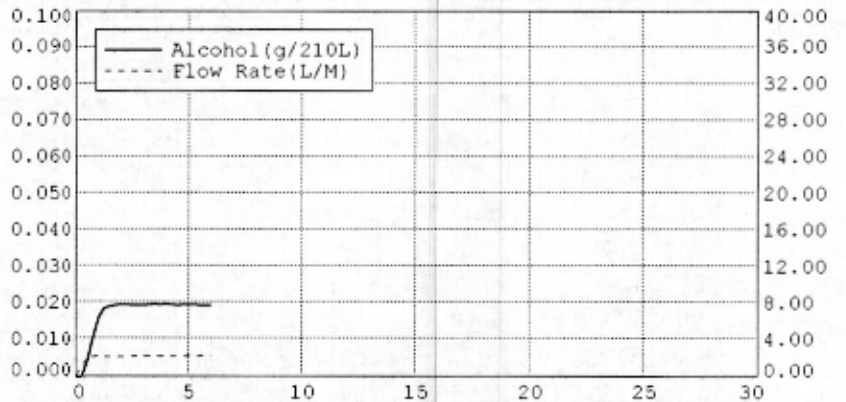
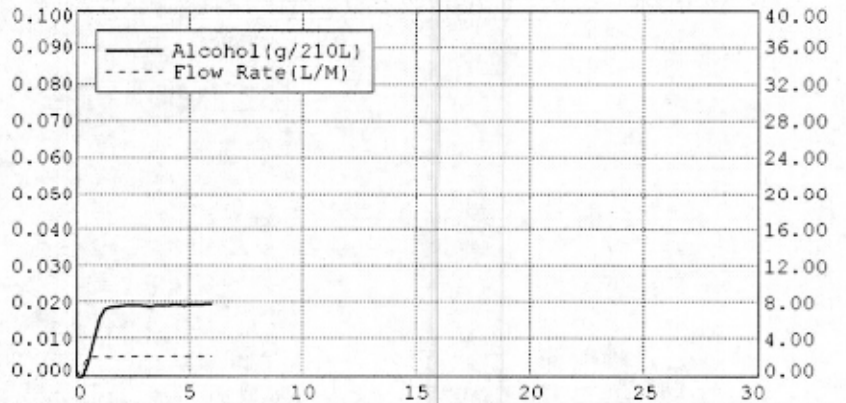
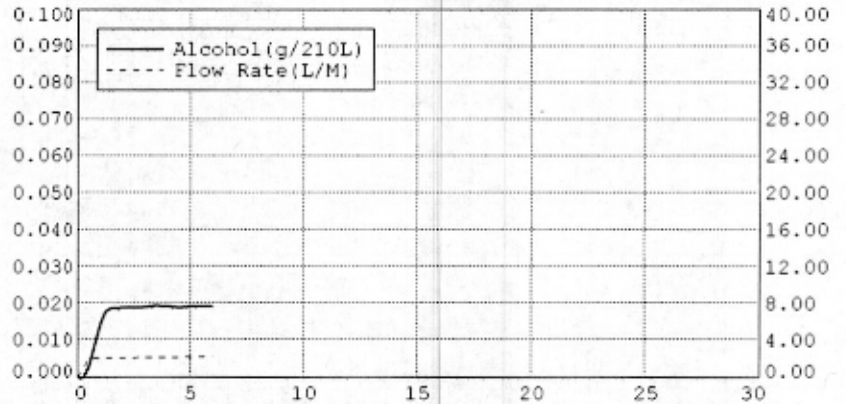
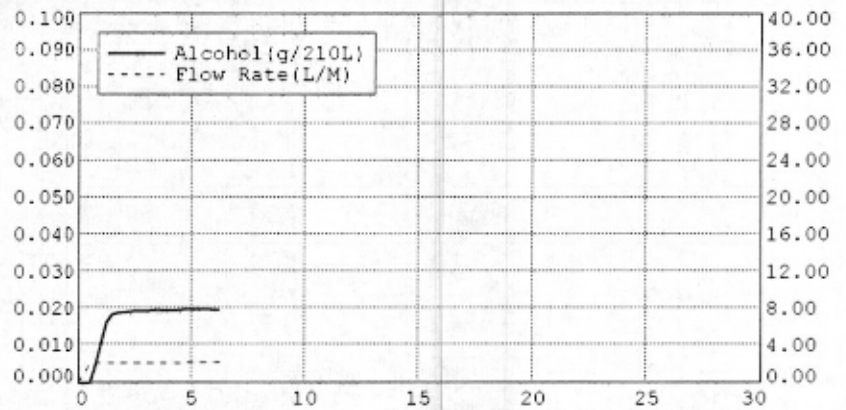
Date: 08/15/2012
 Time: 13:10:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.99: 0.020
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:12
INTERNAL STANDARD	VERIFIED	13:12
EXTERNAL STANDARD	0.020	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.020	13:14
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.020	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.020	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.020	13:17
BLANK TEST	0.000	13:18

Average = 0.0207
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100410

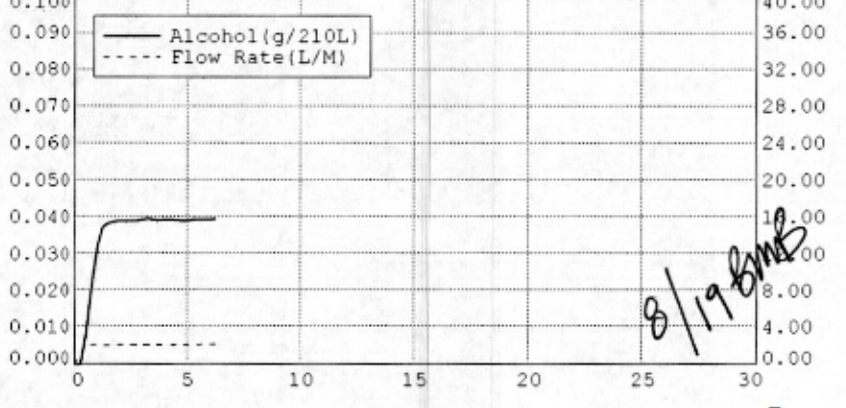
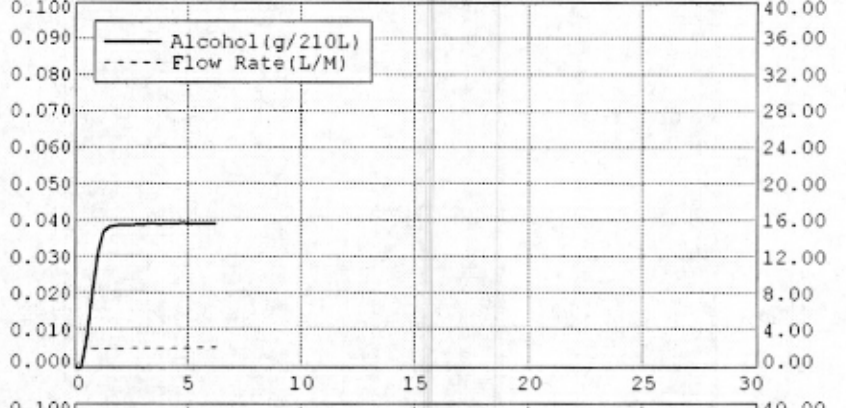
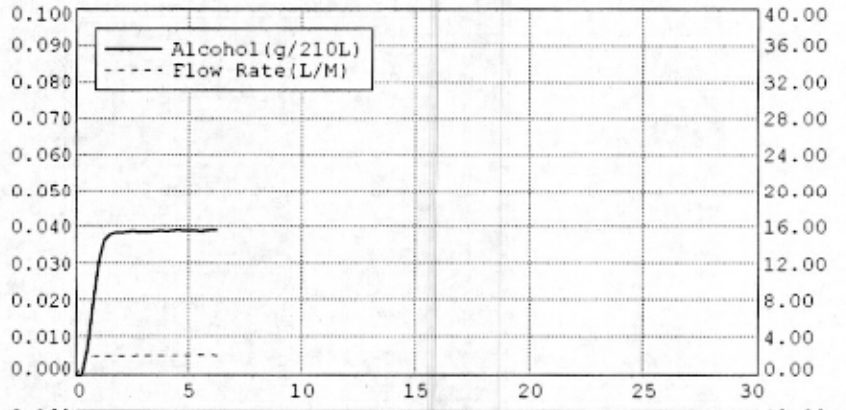
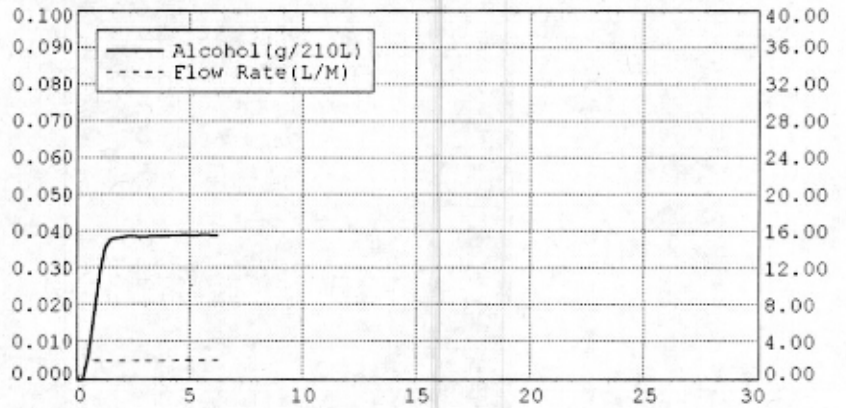
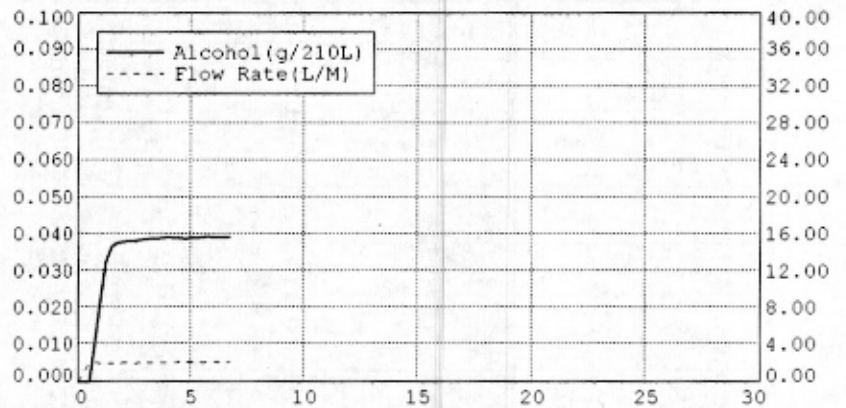
Date: 08/15/2012
 Time: 13:20:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.99: 0.040
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
EXTERNAL STANDARD	0.040	13:22
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.040	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.039	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.040	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.040	13:26
BLANK TEST	0.000	13:27

Average = 0.0401
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

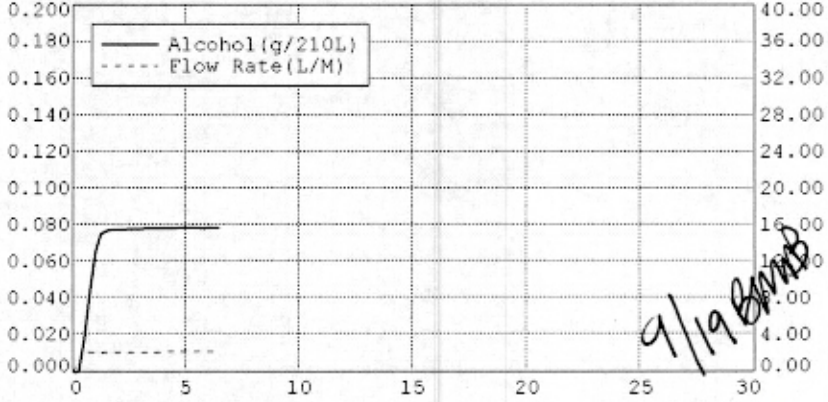
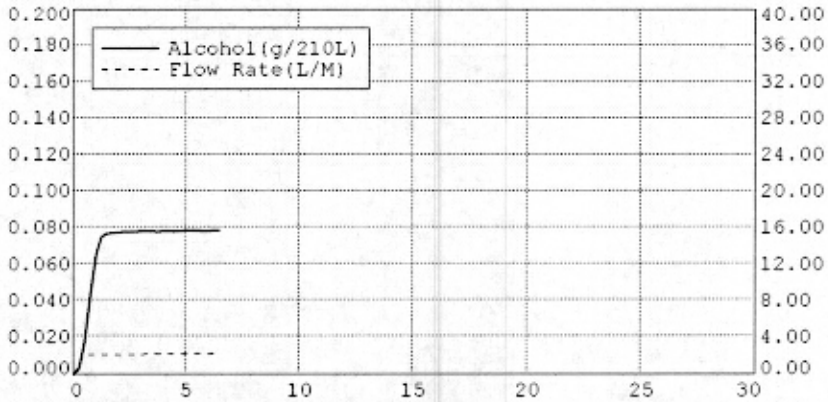
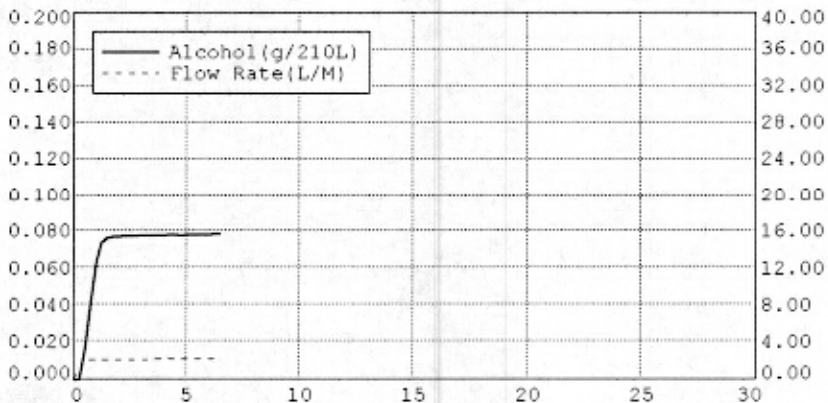
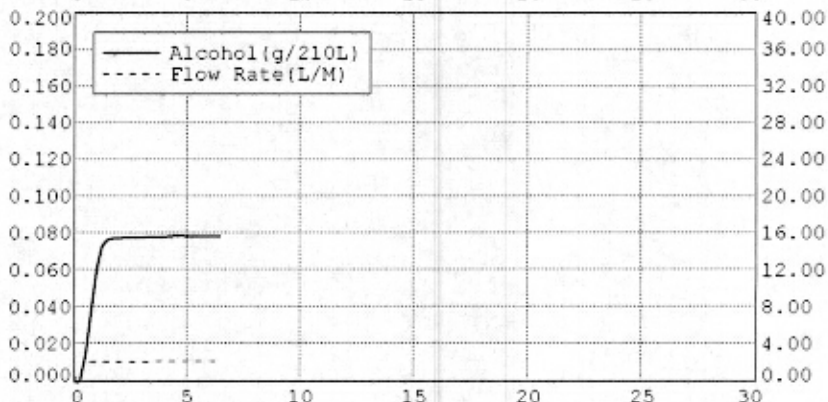
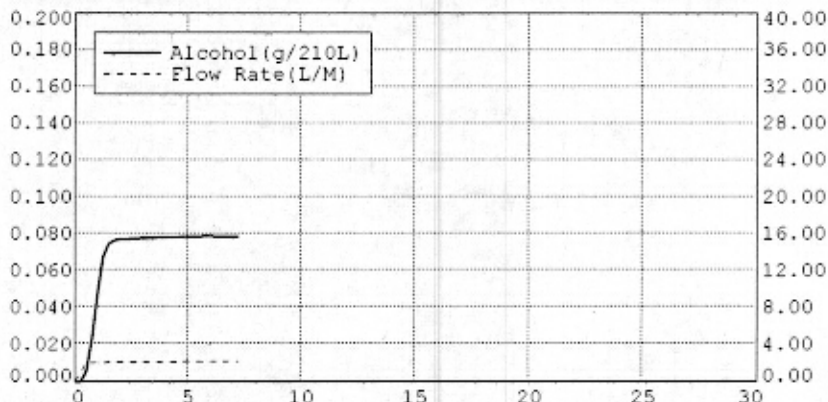
Alaska Department of Public Safety
 DATAMASTER dmt: 100410

Date: 08/15/2012
 Time: 13:37:58

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.99: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	13:39
INTERNAL STANDARD	VERIFIED	13:39
EXTERNAL STANDARD	0.079	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.079	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.078	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.079	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.079	13:44
BLANK TEST	0.000	13:44

Average = 0.0792
 Std Dev = 0.0002



9/19/2012

LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100410

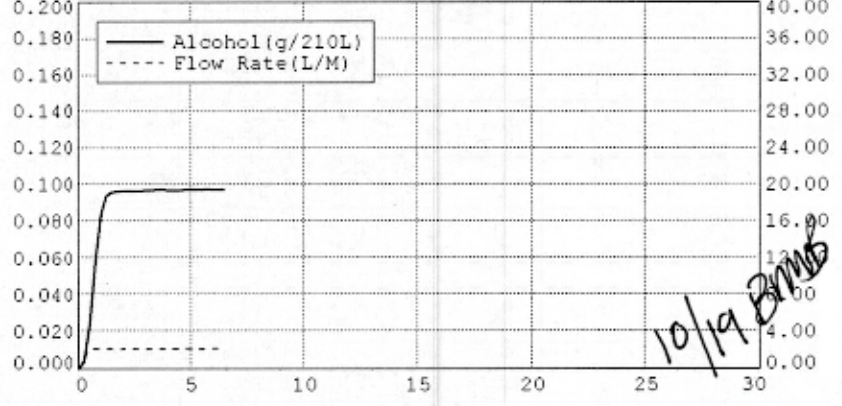
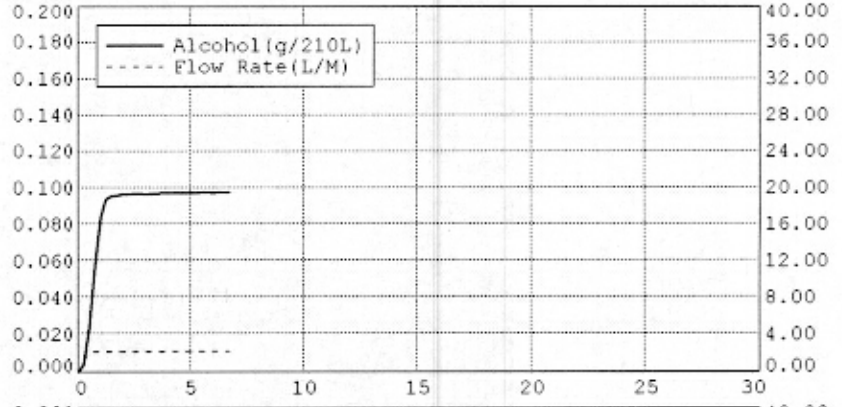
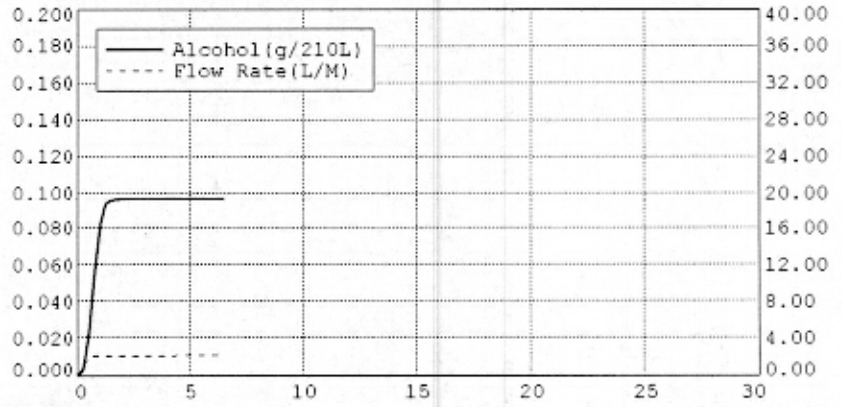
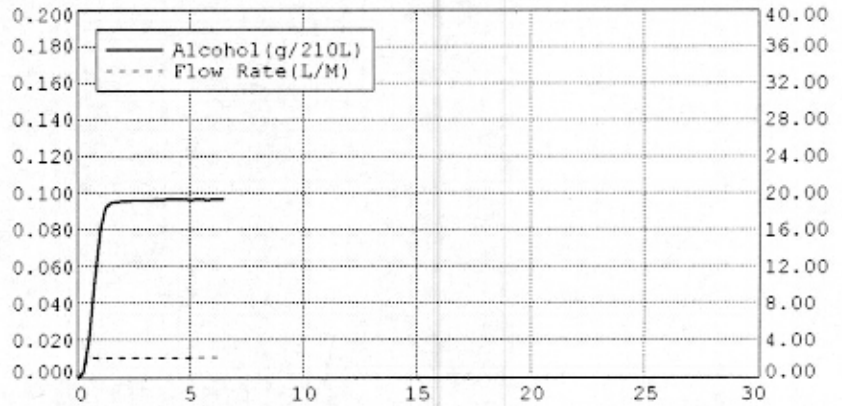
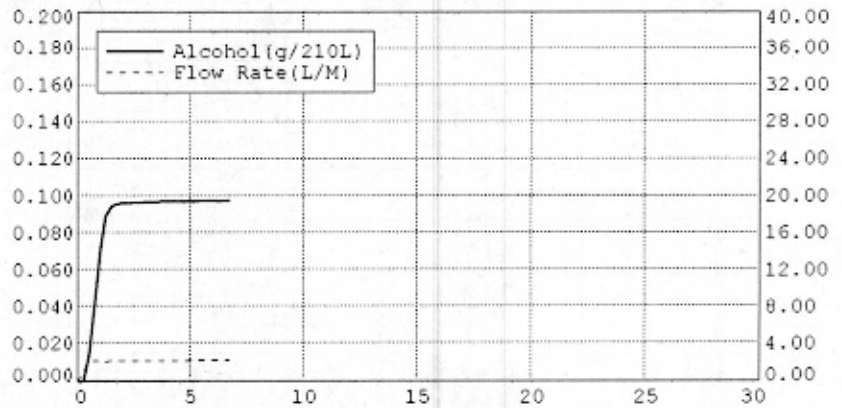
Date: 08/15/2012
 Time: 13:47:33

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.98: 0.100
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:49
INTERNAL STANDARD	VERIFIED	13:49
EXTERNAL STANDARD	0.098	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.097	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.097	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.097	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.097	13:54
BLANK TEST	0.000	13:55

Average = 0.0979
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100410

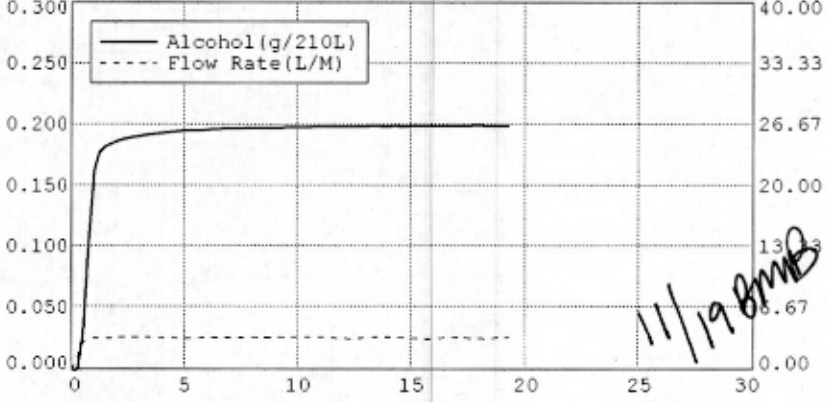
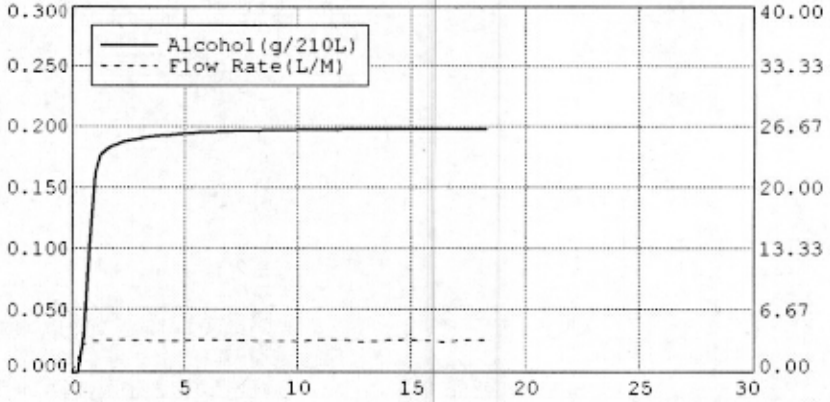
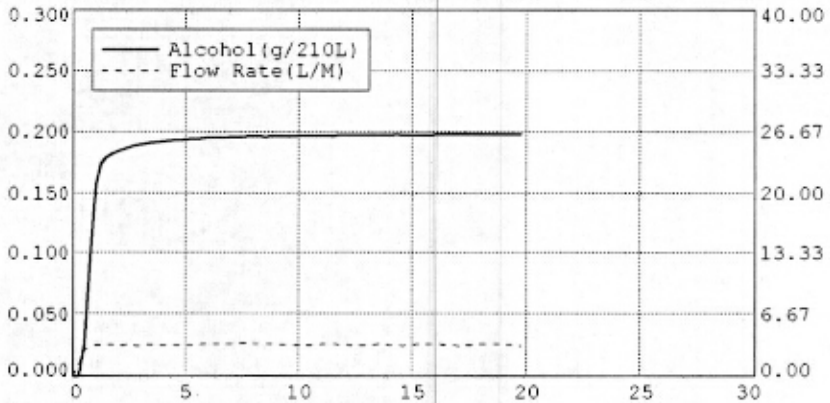
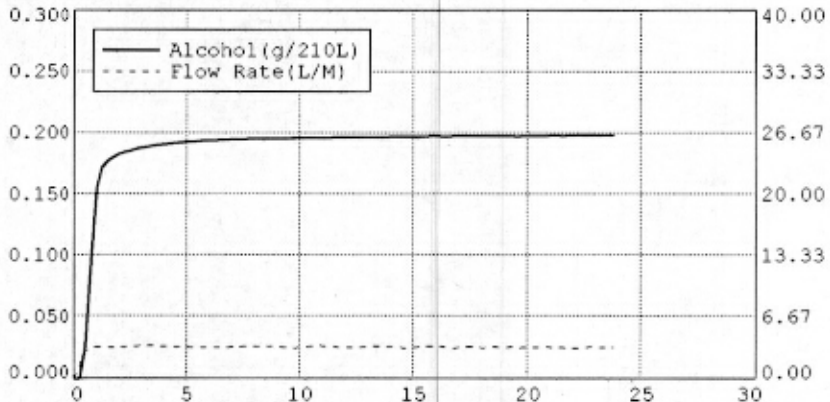
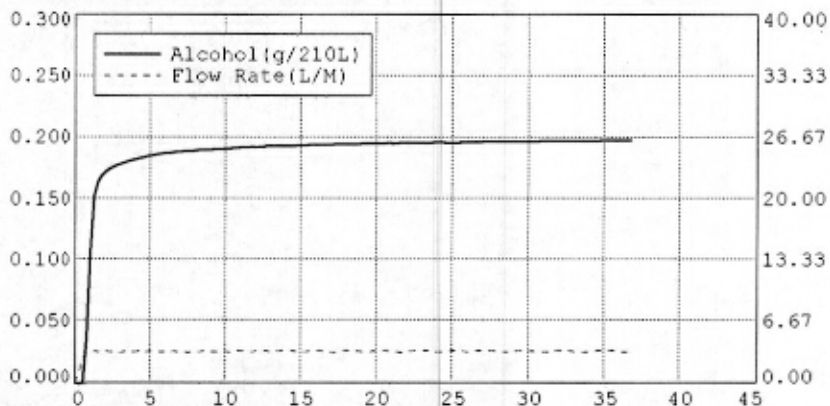
Date: 08/15/2012
 Time: 14:03:17

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:04
INTERNAL STANDARD	VERIFIED	14:04
EXTERNAL STANDARD	0.199	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.199	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.199	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.199	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.200	14:11
BLANK TEST	0.000	14:12

Average = 0.1994
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

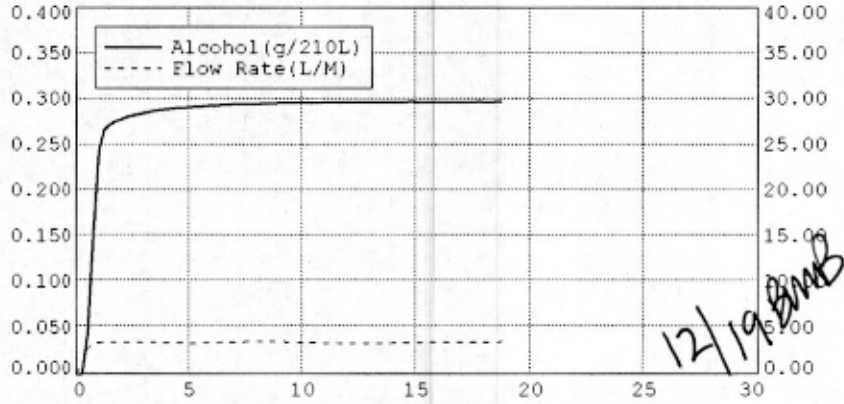
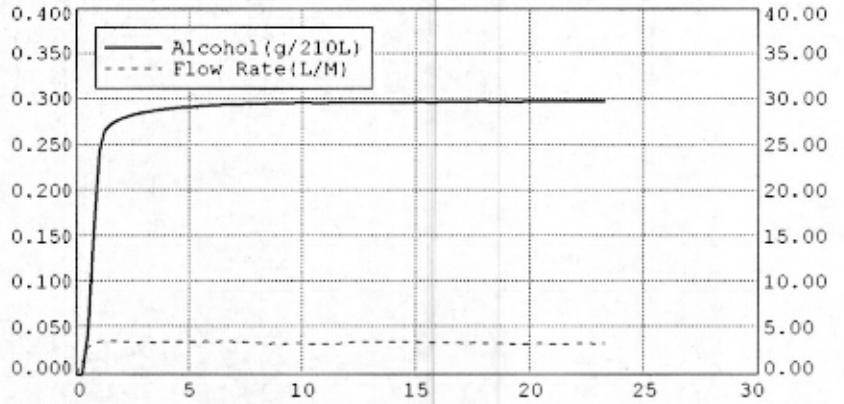
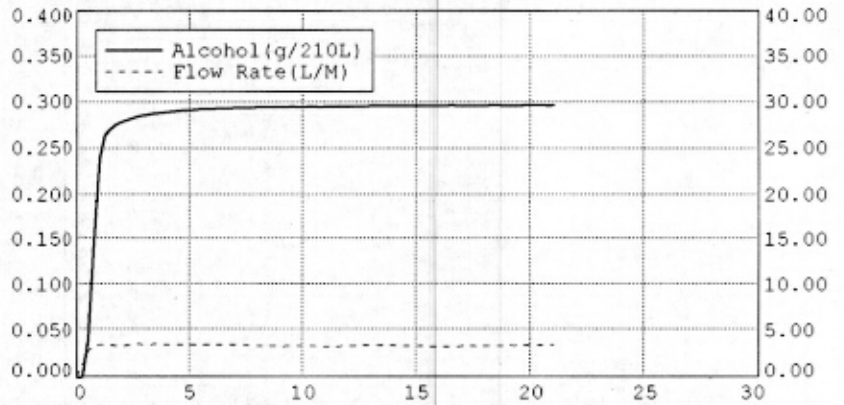
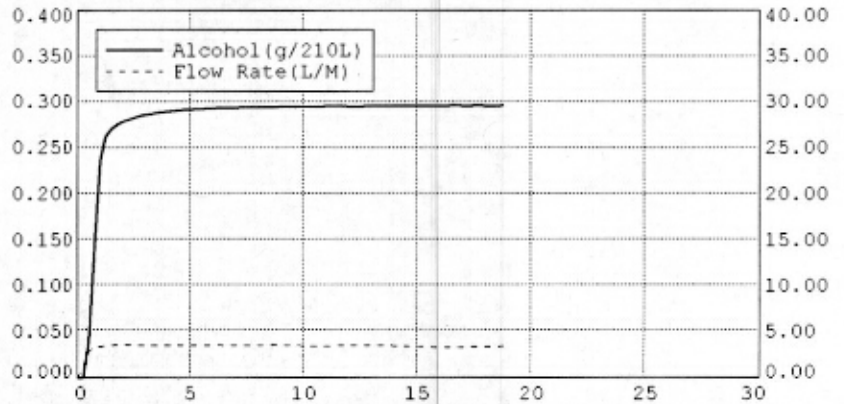
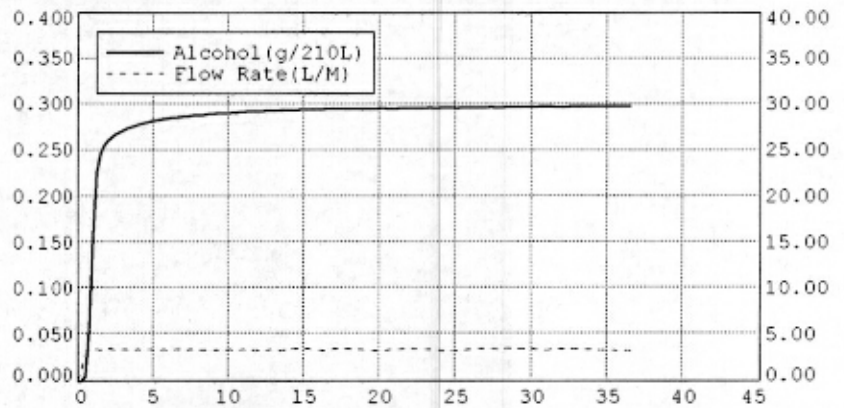
Alaska Department of Public Safety
 DATAMASTER dmt: 100410

Date: 08/15/2012
 Time: 14:15:30

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 11110
 EXPIRATION: 07/13/2013

BLANK TEST	0.000	14:16
INTERNAL STANDARD	VERIFIED	14:17
EXTERNAL STANDARD	0.298	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.297	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.297	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.298	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.297	14:23
BLANK TEST	0.000	14:24

Average = 0.2979
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100410

Date: 08/15/2012
 Time: 14:34:46

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

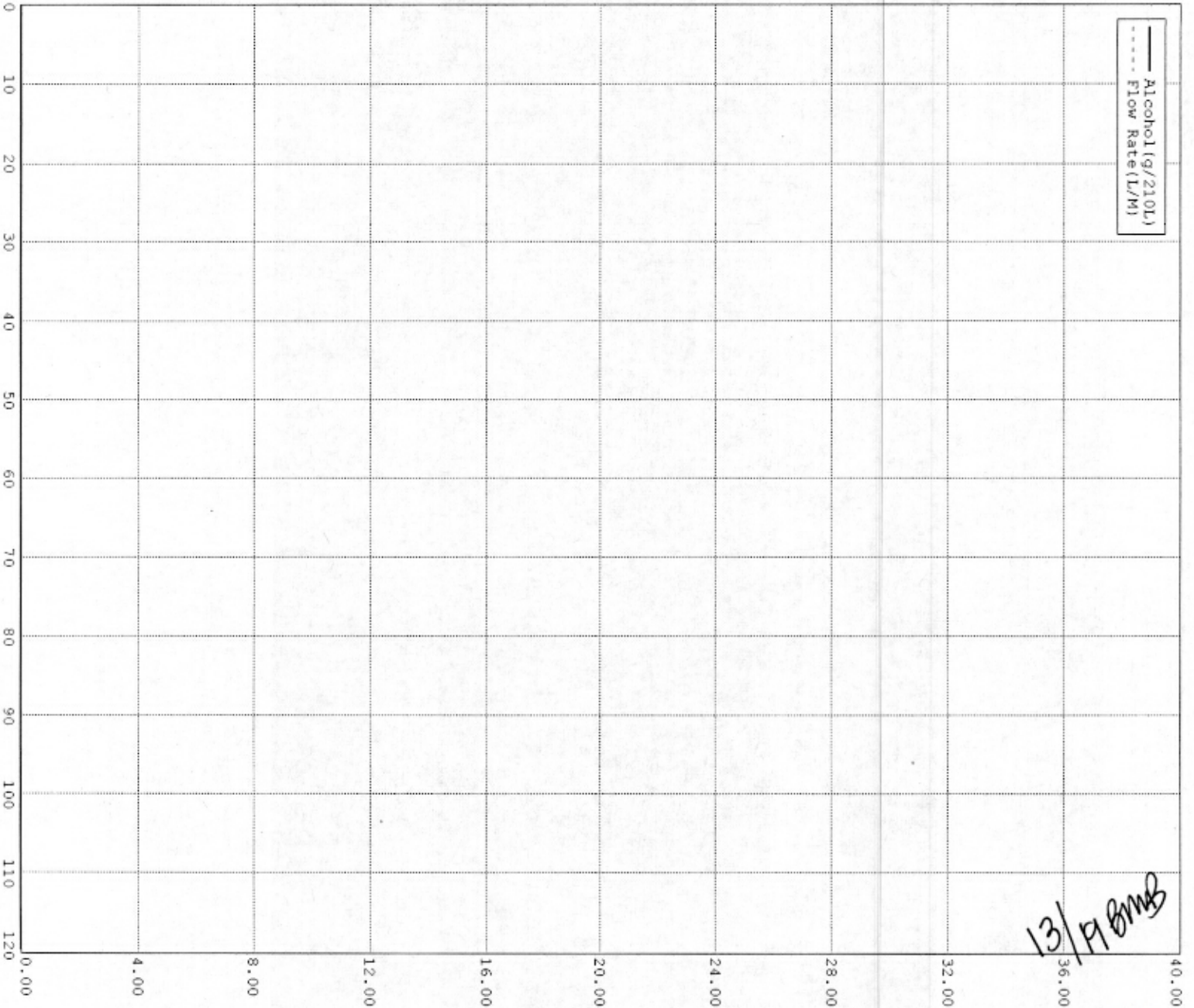
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.98: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:41
BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.079	14:41
BLANK TEST	0.000	14:42
SUBJECT SAMPLE	INCOMPLETE	14:44

BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100410

Date: 08/15/2012
 Time: 15:32:11

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

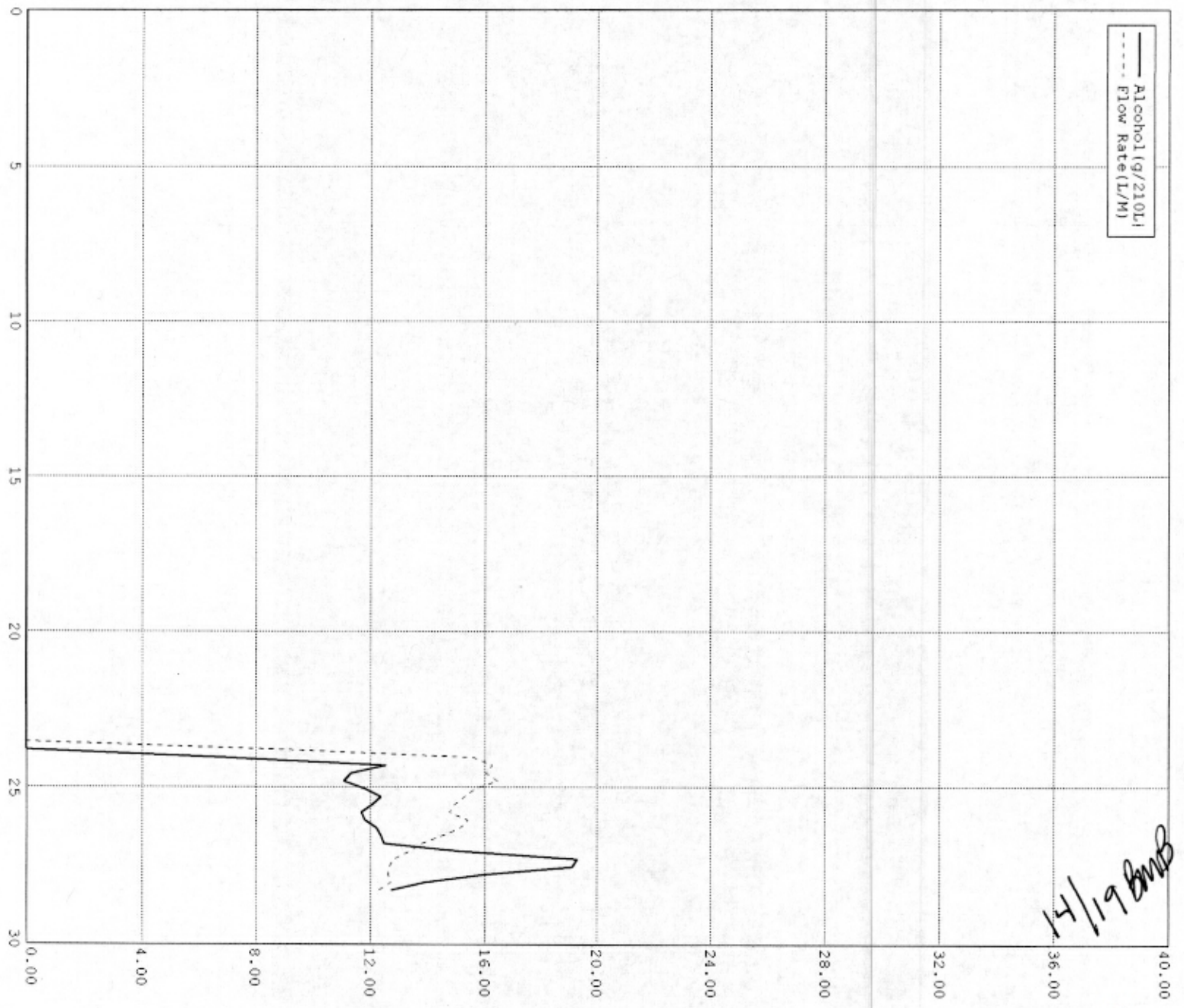
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.98: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:34
BLANK TEST	0.000	15:34
INTERNAL STANDARD	VERIFIED	15:34
EXTERNAL STANDARD	0.079	15:35
BLANK TEST	0.000	15:36
SUBJECT SAMPLE	INVALID	15:36

Handwritten signature: BMB



Handwritten signature and date: BMB 8/15/12

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 08/16/2012
Time: 10:31:05

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

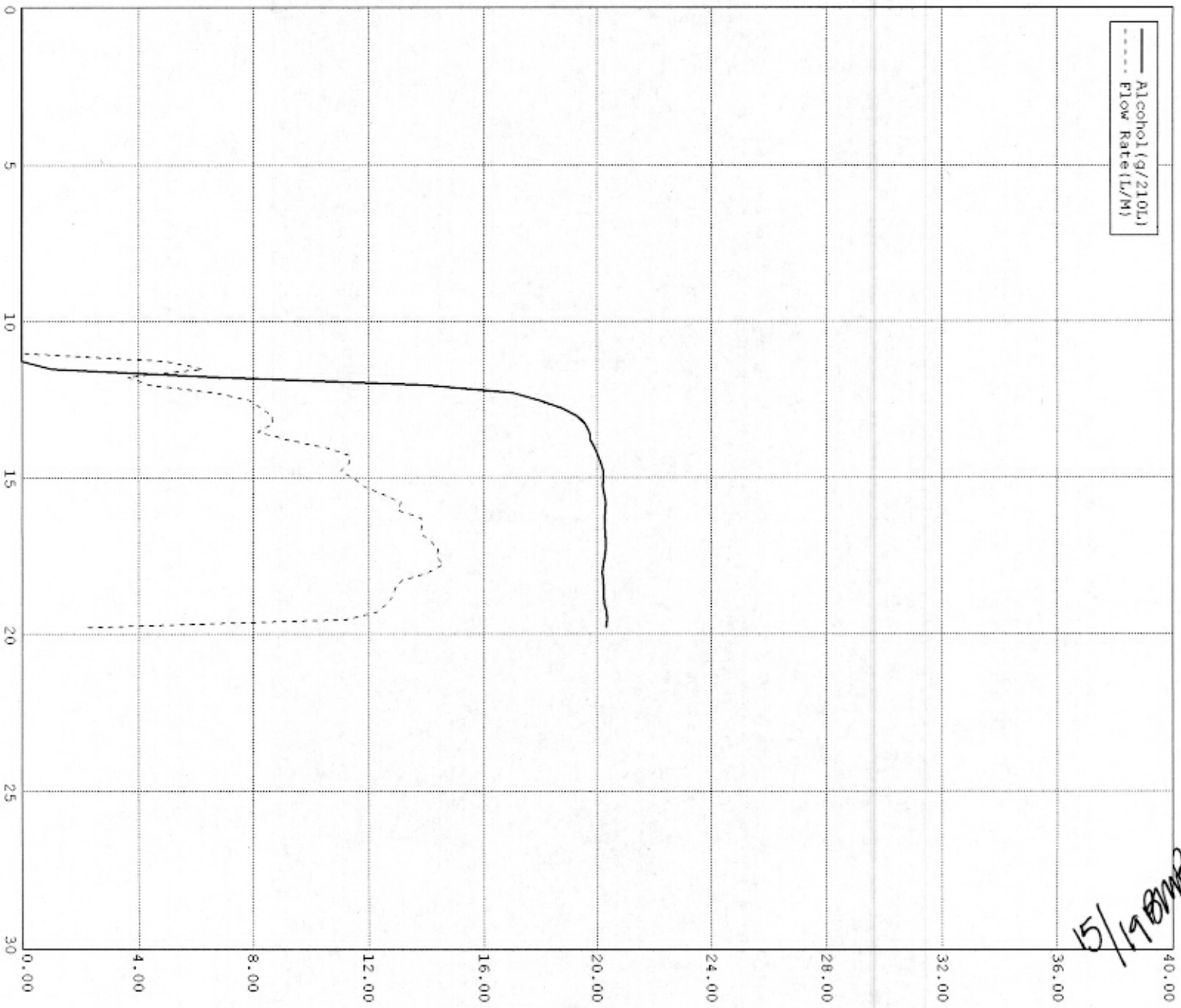
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:33
BLANK TEST	0.000	10:33
INTERNAL STANDARD	VERIFIED	10:33
Xq = 0.087 (0.40%)		
EXTERNAL STANDARD	0.079	10:34
X[1] = 0.0791 (-0.0012)	(0.0027)	
BLANK TEST	0.000	10:35
SUBJECT SAMPLE	INTERFERENCE	10:35
X[1] = 0.1030 (-0.0167)	(0.0012)	

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Handwritten signature: BMB
15/19

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100410

Date: 08/16/2012
Time: 10:14:39

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

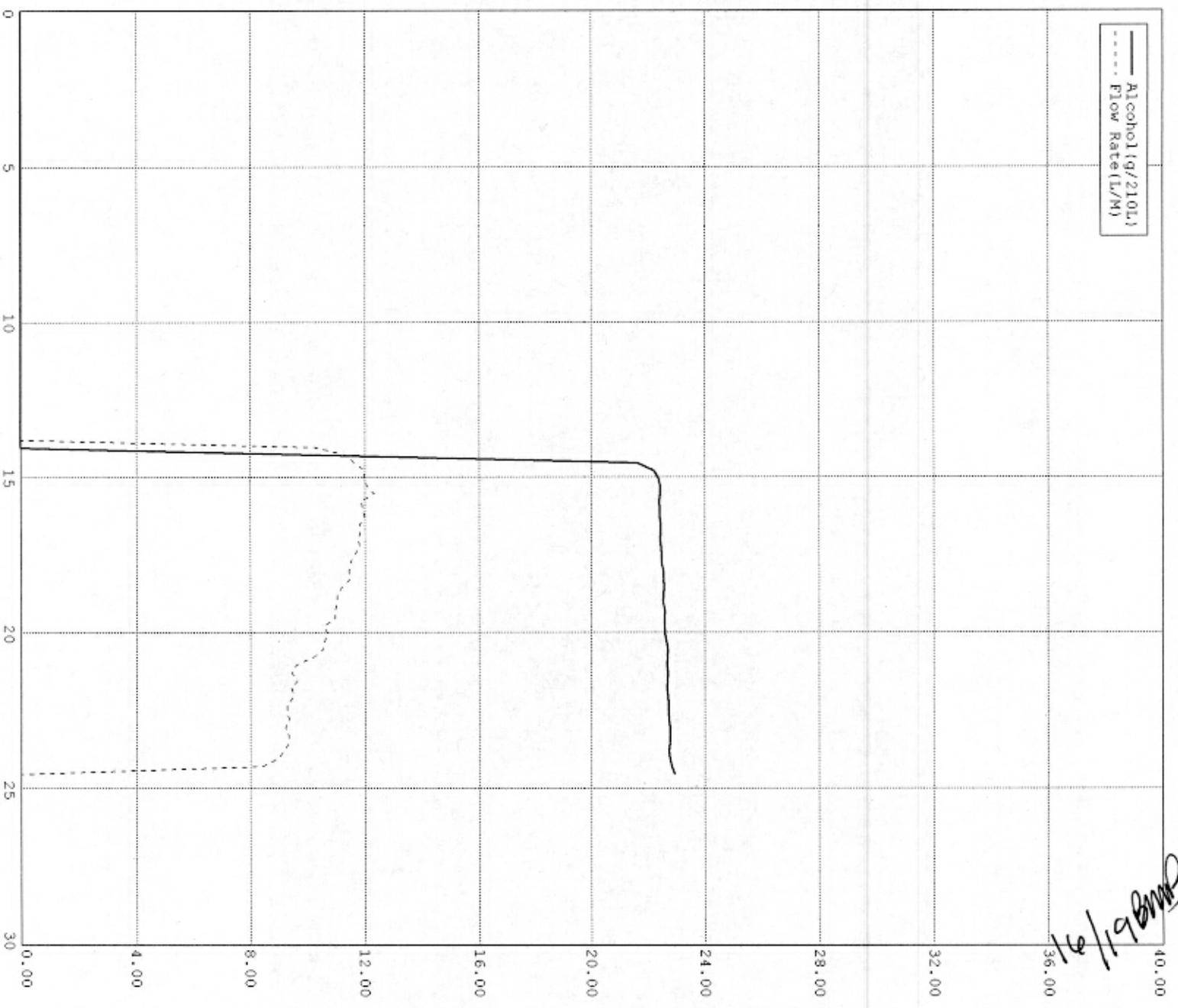
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:15
BLANK TEST	0.000	10:16
INTERNAL STANDARD	VERIFIED	10:16
Xq = 0.087 (0.20%)		
EXTERNAL STANDARD	0.079	10:16
X[1] = 0.0796 (-0.0008) (0.0016)		
BLANK TEST	0.000	10:17
SUBJECT SAMPLE	INTERFERENCE	10:17
X[1] = 0.1156 (-0.0302) (0.0005)		

BBB



BBB
8/16/12

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 08/16/2012
Time: 10:05:06

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

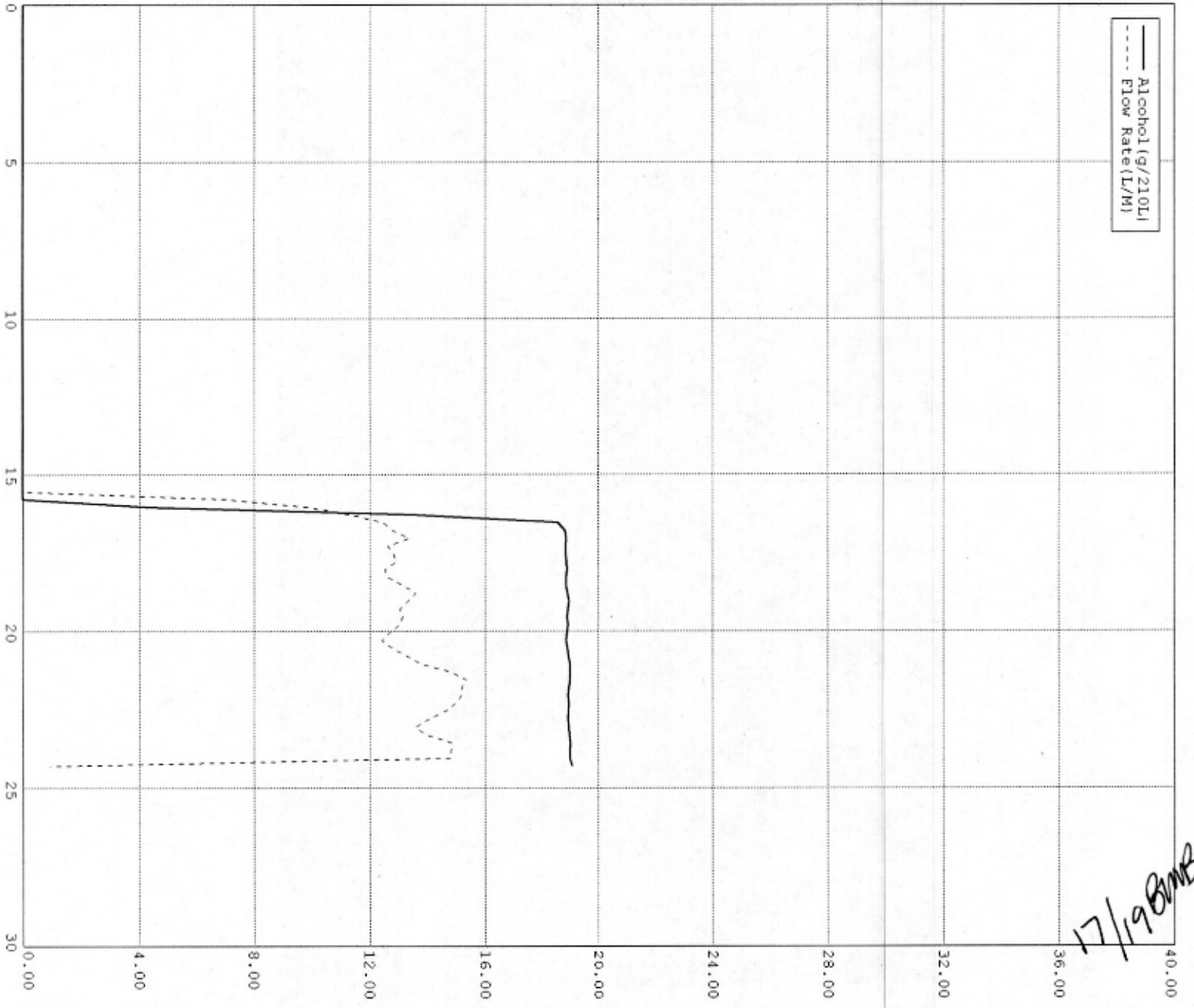
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
INTERFERENCE NEGATIVE CONTROL
CASE/REPORT: 0.100 SOLUTION
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:06
BLANK TEST	0.000	10:06
INTERNAL STANDARD	VERIFIED	10:06
Xq = 0.087 (0.30%)		
EXTERNAL STANDARD	0.079	10:06
X[1] = 0.0796 (-0.0009)	(0.0022)	
BLANK TEST	0.000	10:07
SUBJECT SAMPLE (Vol=1.88L)	0.096	10:08
X[1] = 0.0964 (-0.0019)	(-0.0006)	
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.078	10:09
X[1] = 0.0789 (-0.0008)	(0.0016)	
BLANK TEST	0.000	10:10

BMB



17/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 08/15/2012
Time: 15:39:13

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

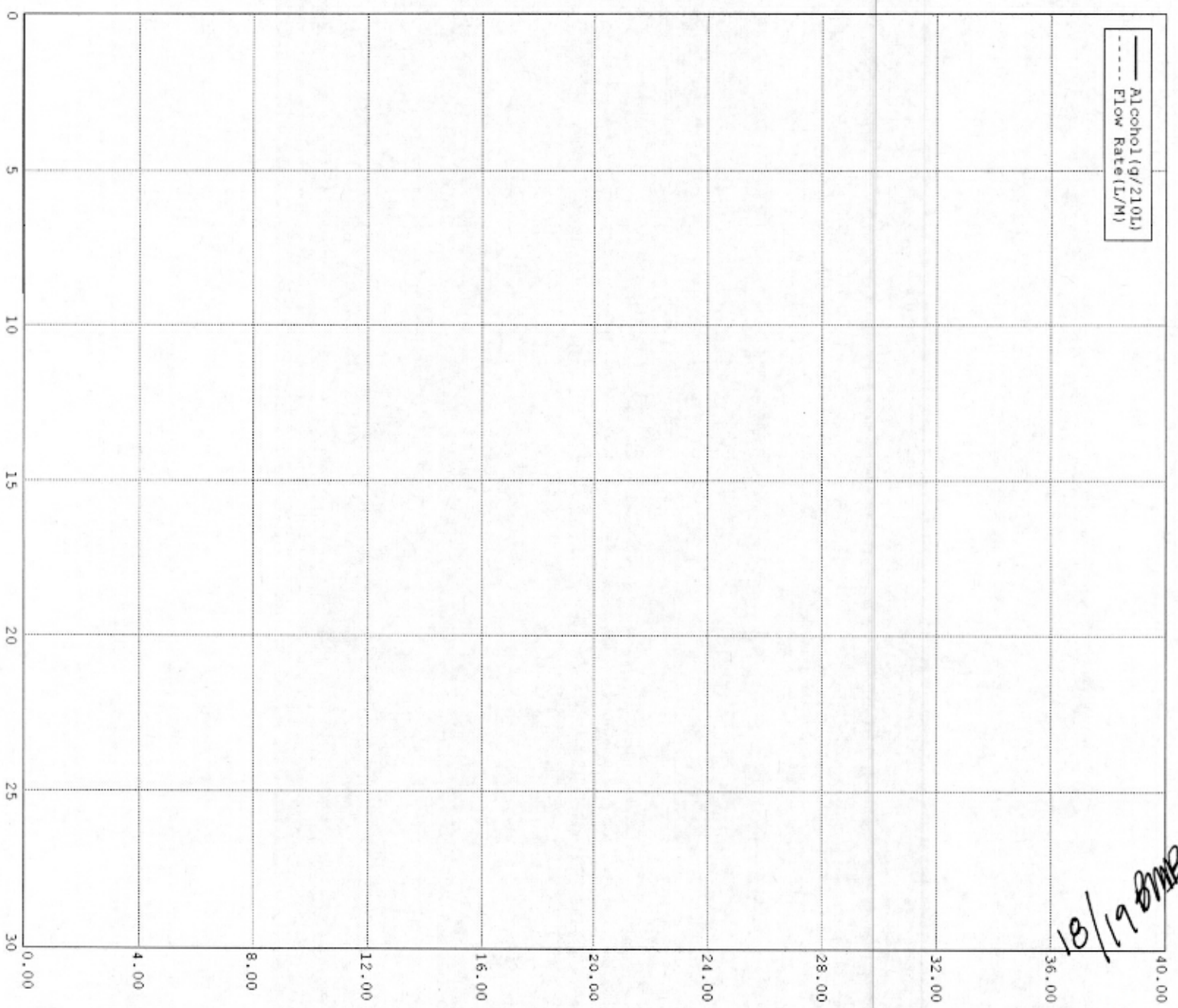
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.98: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:40
BLANK TEST	0.000	15:40
INTERNAL STANDARD	VERIFIED	15:40
EXTERNAL STANDARD	0.079	15:40
BLANK TEST	0.000	15:41

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100410

Date: 08/16/2012
 Time: 14:06:39

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

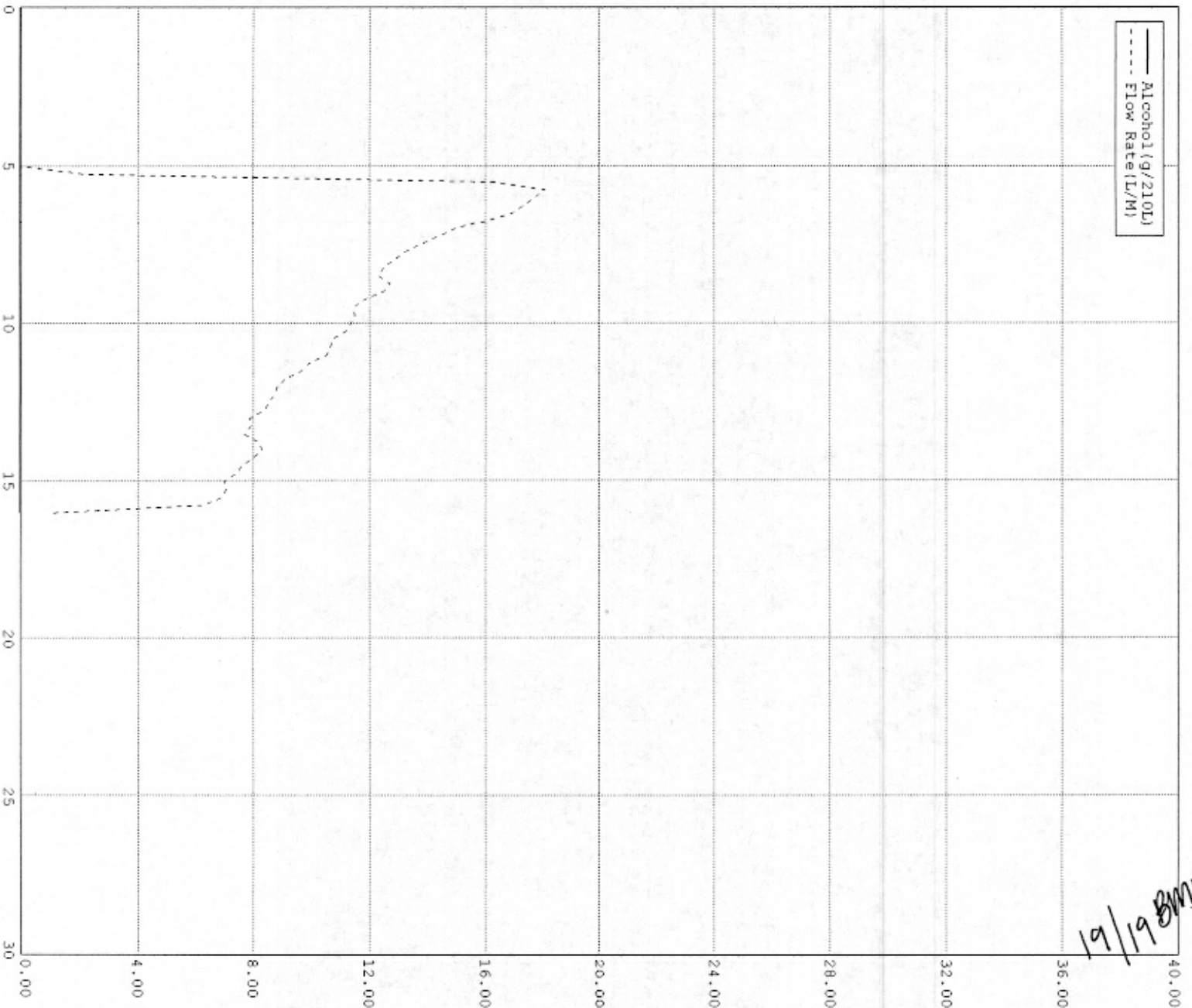
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:09
BLANK TEST	0.000	14:09
INTERNAL STANDARD	VERIFIED	14:09
EXTERNAL STANDARD	0.080	14:10
BLANK TEST	0.000	14:11
SUBJECT SAMPLE	0.000	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.079	14:12
BLANK TEST	0.000	14:13

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Final page for report

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2/18/2014