

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R0
Status: Active

Instrument S/N 100666
Start Date 2/29/12

Analyst Brandi Barnett

Diagnostic Test (attached) ☒ updated software to 2.00 + USB Fixer 2/29/12 BMB
Verified rear vented 3/2/12 BMB

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 03/01/2013
ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013
iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/2013
iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/2013
v. ~~0.200g/210L Mnf Guth Lot 11120 Exp 07/19/13~~

SD1176 BMB 3/1/12. Simulator S/N SD1178 Date Calibrated 8/17/2011
vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/2013

1. Simulator S/N SD1202 Date Calibrated 8/17/2011

5. Functional Tests (attached)

- a. Incomplete ☒
c. Interference ☒

b. Invalid ☒

i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/13

1. Simulator S/N SD1199 Date Calibrated 01/11/2012

ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/12

1. Simulator S/N DR 62467 Date Calibrated 01/10/12

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 ☐ N/A

End Date 3/6/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 03/02/2012
Time: 13:19:31

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 47.9°C	PASSED

PUMP INFO

Flow Rate = 5.164 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

INTERNAL STANDARD	PASSED
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2/18/12

Technician Screen

DATAMASTER dmt: 100666

Date: 03/02/2012

Time: 1:25 PM

Temperatures (°C)

Sample Cell: 49.5°C

Breath Tube: 47.4°C

Current Barometer 29.2 in

Volume (Ltr) 1.57

Settings

Lamp: 1.65 V

Bias: 80 V

Cooler: 1.61 V

Chopper: 535 Hz

Voltages (V)

Flow: 1.04 V

Detector: -0.035 V

3/18/12 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 09/21/2011
Time: 09:00:23

Ca	=	0.1510	
CAL	=	0.997541	0.800 <= CAL < 1.200
b1	=	0.0000	0.0000 <= b1 < 0.0040
b2	=	0.0016	0.0010 <= b2 < 0.0100
b3	=	0.0000	0.0000 <= b3 < 0.0040
Xq	=	0.0860	0.0500 <= Xq < 0.2000
a21	=	1.150380	1.050 <= a21 < 1.300
a31	=	0.518003	0.300 <= a31 < 0.800

4/18/11 MB

SUBJECT TEST

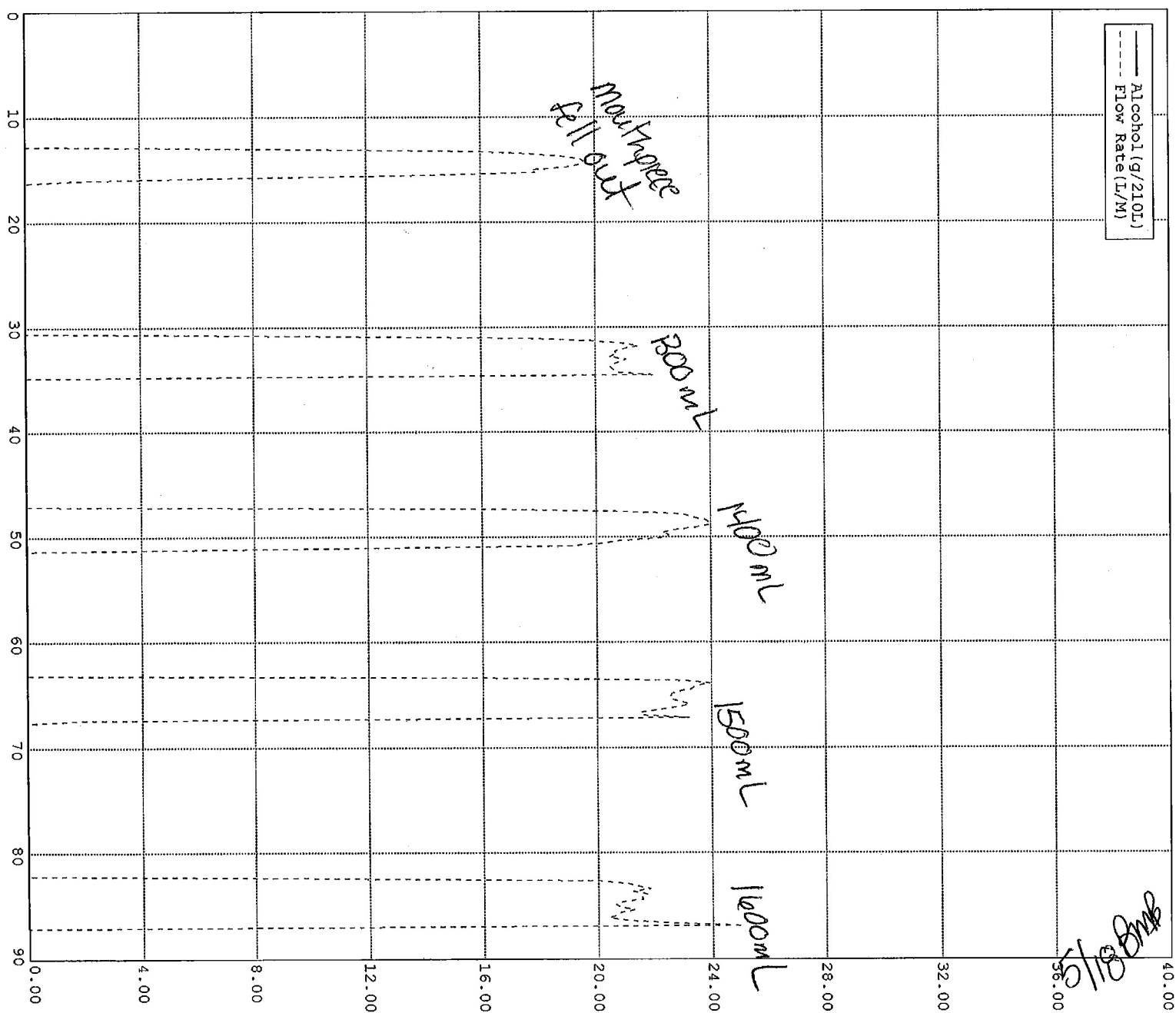
Alaska Department of Public Safety
DATA MASTER dmt: 100666Date: 03/02/2012
Time: 13:28:25SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
MINIMUM VOLUME
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:31
BLANK TEST	0.000	13:31
INTERNAL STANDARD	VERIFIED	13:32
EXTERNAL STANDARD	0.076	13:32
BLANK TEST	0.000	13:33
SUBJECT SAMPLE	0.000	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.077	13:35
BLANK TEST	0.000	13:36

BMB



LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100666

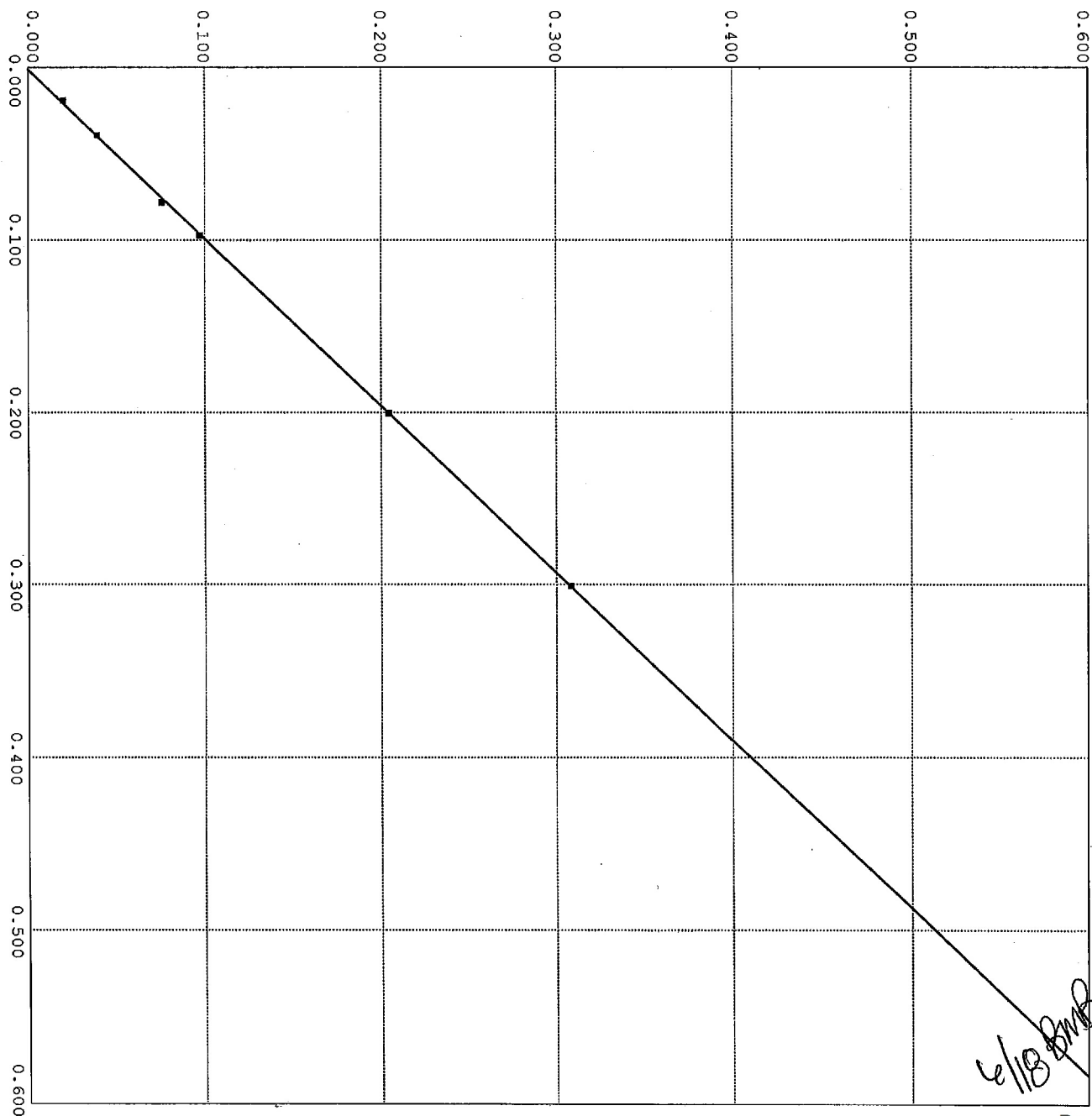
Date: 03/02/2012
Time: 13:43:18

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0204	0.0001
0.039	0.0399	0.0001
0.078	0.0767	0.0001
0.097	0.0984	0.0002
0.200	0.2053	0.0004
0.300	0.3089	0.0003

SLOPE = 1.030946
 R^2 = 0.999809

BBMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100666

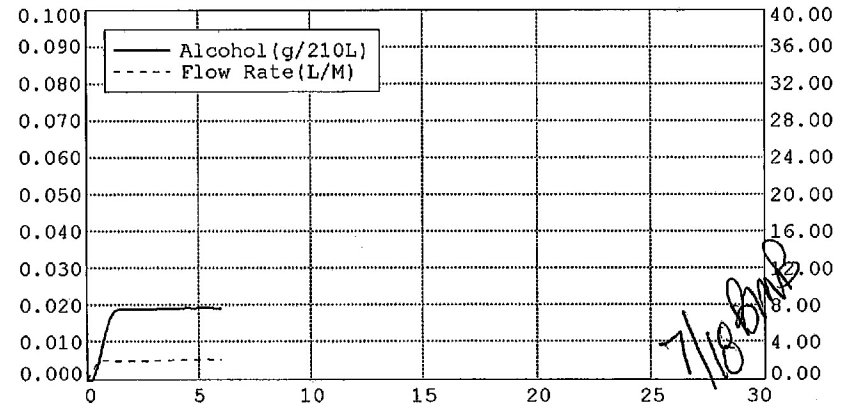
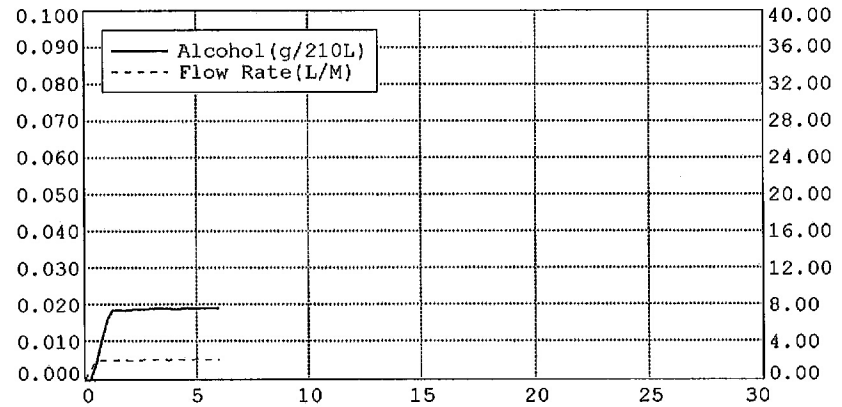
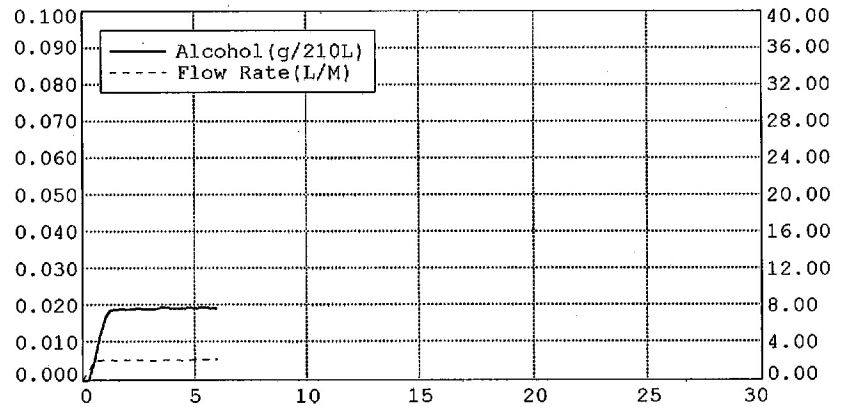
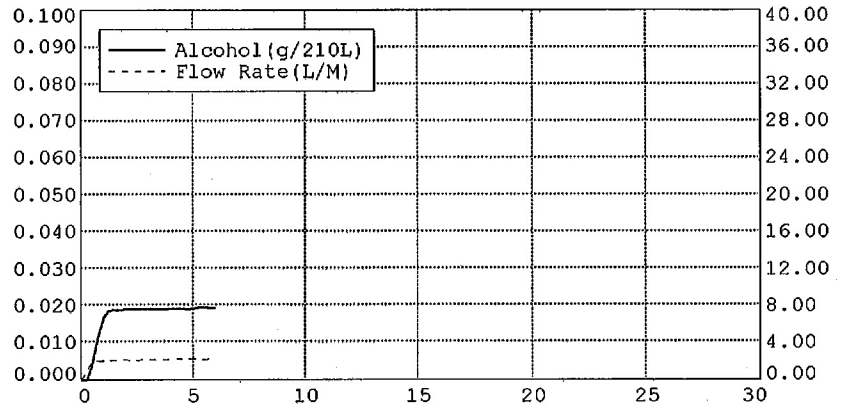
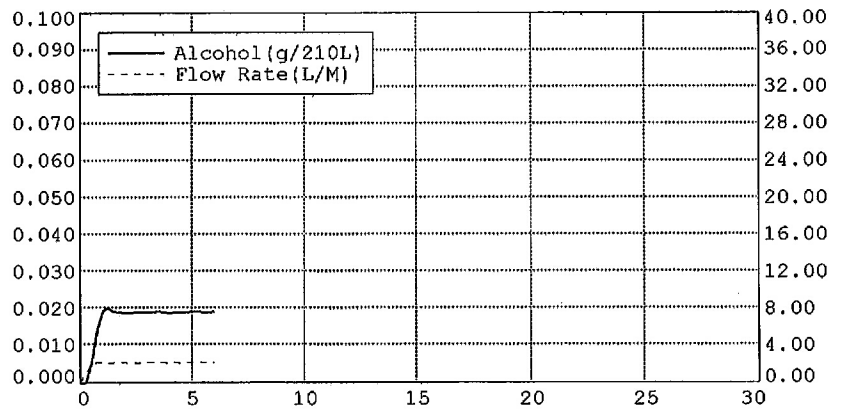
Date: 03/02/2012
Time: 13:43:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.22: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:45
INTERNAL STANDARD	VERIFIED	13:45
EXTERNAL STANDARD	0.020	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.020	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.020	13:48
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.020	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.020	13:50
BLANK TEST	0.000	13:51

Average = 0.0204
Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100666

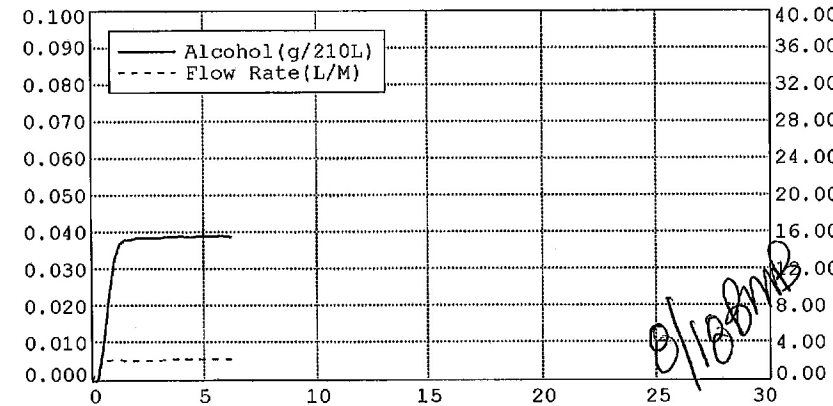
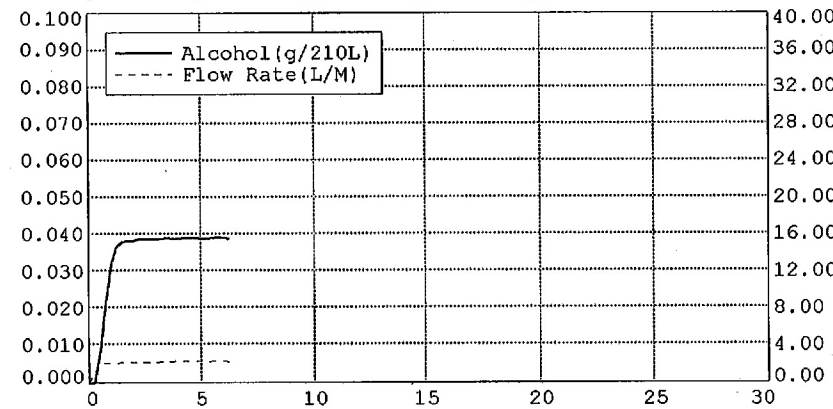
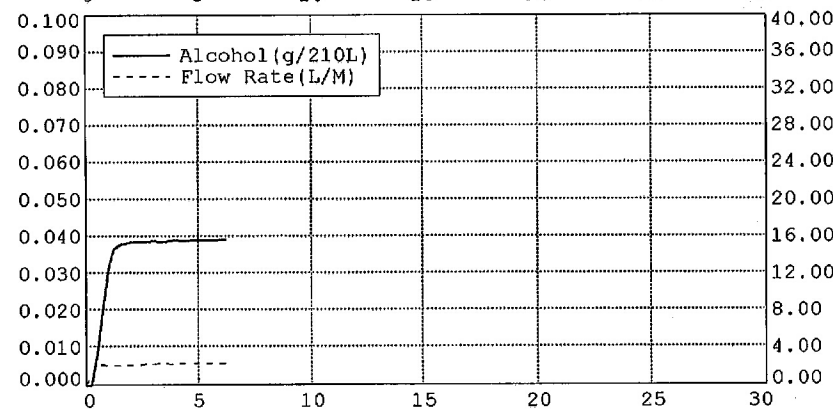
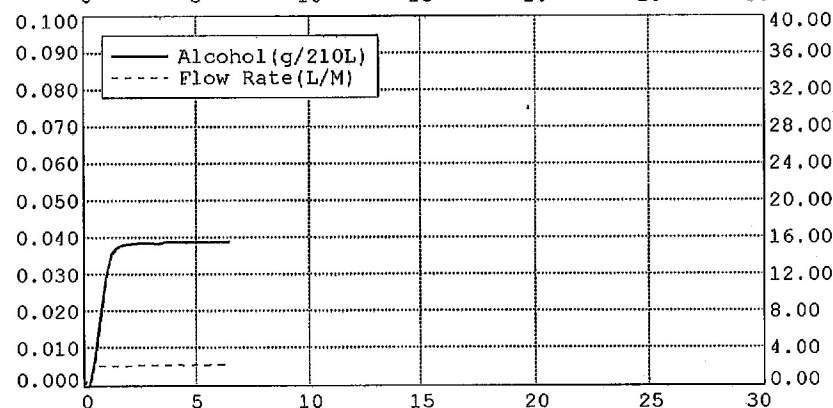
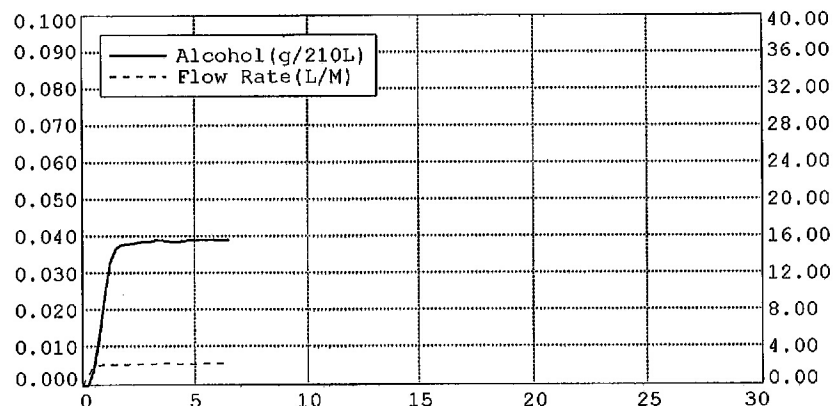
Date: 03/02/2012
Time: 13:55:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.22: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:56
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.040	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.039	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.039	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.039	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.039	14:01
BLANK TEST	0.000	14:02

Average = 0.0399
Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100666

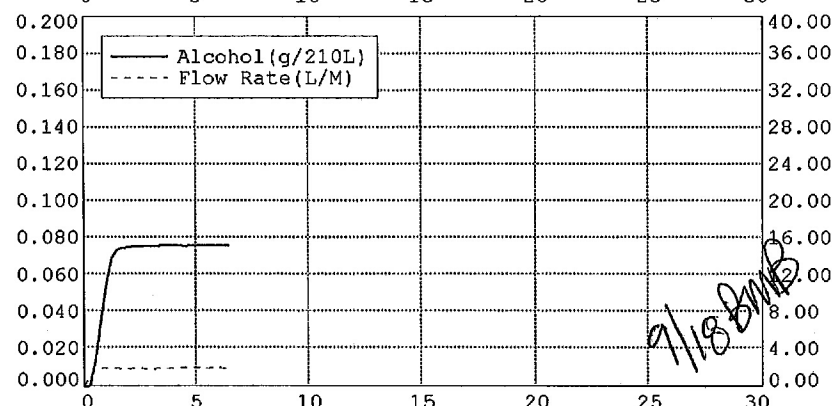
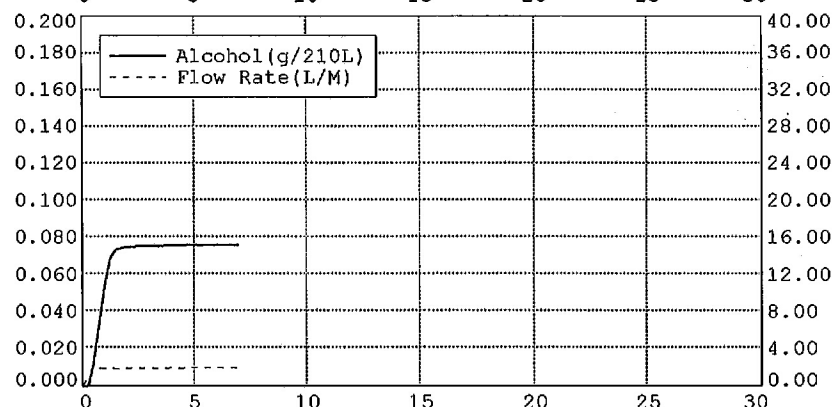
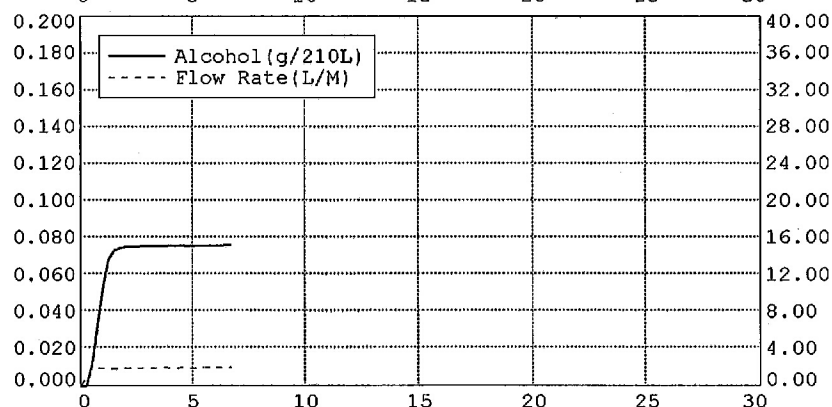
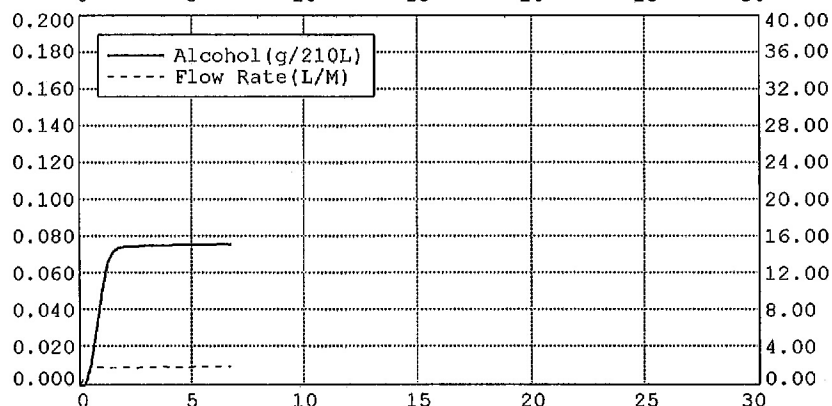
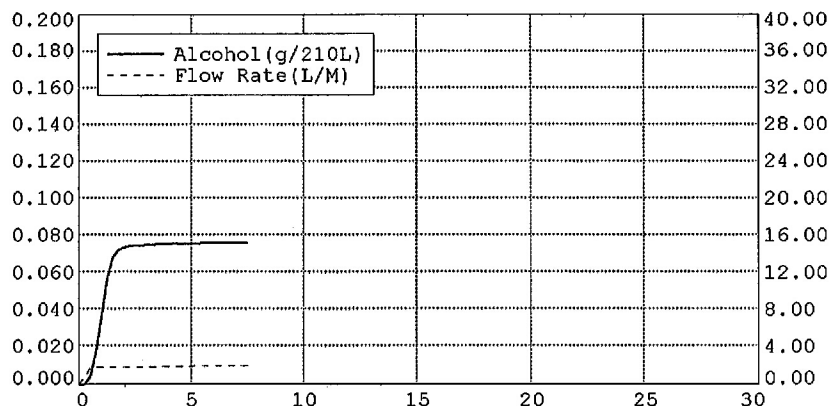
Date: 03/02/2012
Time: 14:05:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:06
INTERNAL STANDARD	VERIFIED	14:06
EXTERNAL STANDARD	0.076	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.076	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.076	14:09
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.076	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.076	14:11
BLANK TEST	0.000	14:12

Average = 0.0767
Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100666

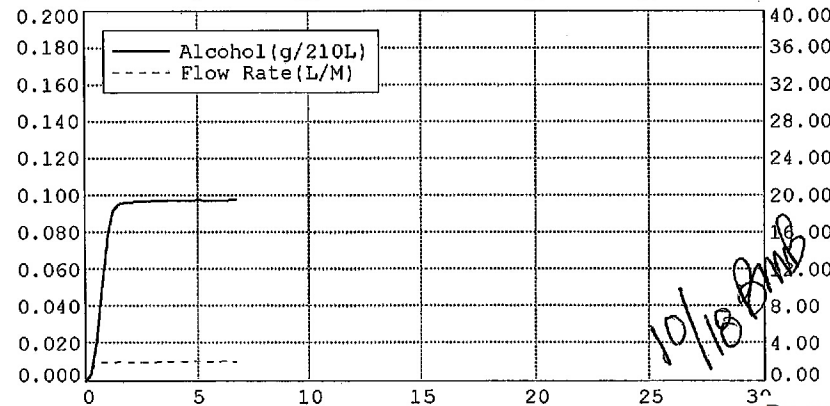
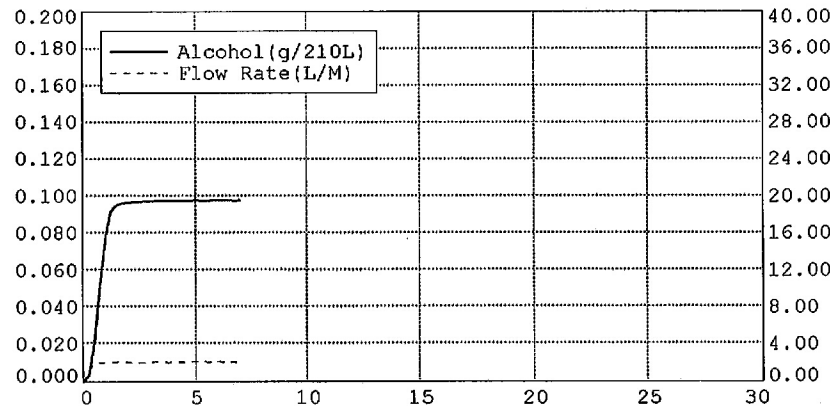
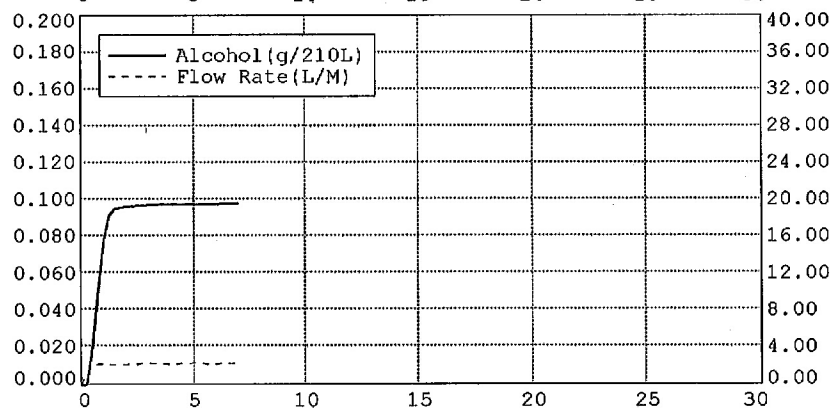
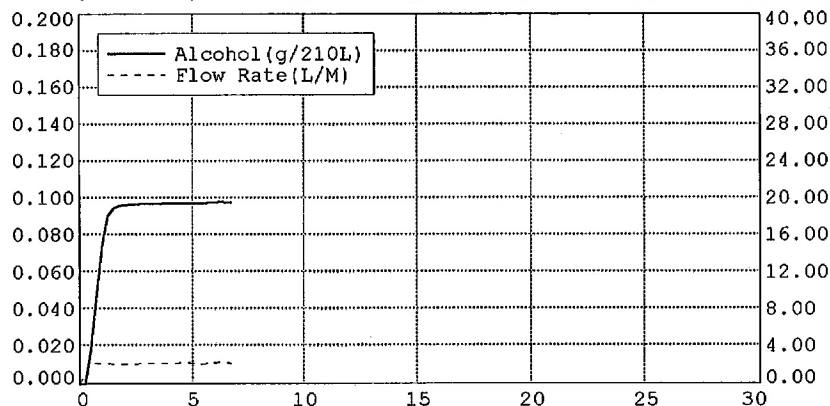
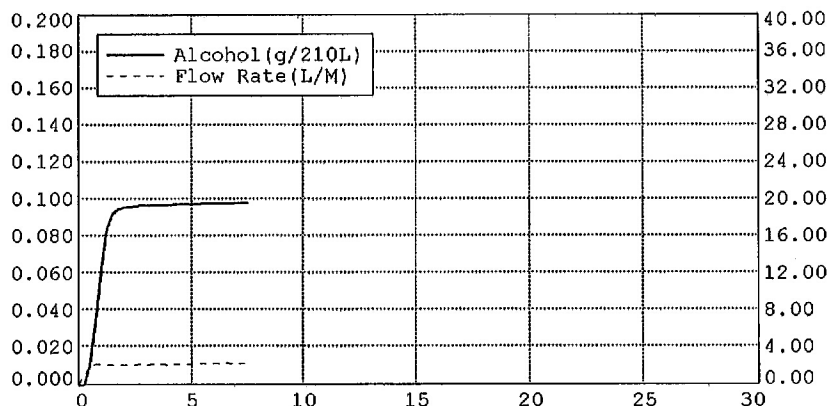
Date: 03/02/2012
Time: 14:17:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.22: 0.097
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:19
EXTERNAL STANDARD	0.098	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.098	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.098	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.098	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.098	14:24
BLANK TEST	0.000	14:24

Average = 0.0984
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 03/02/2012
Time: 14:28:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200

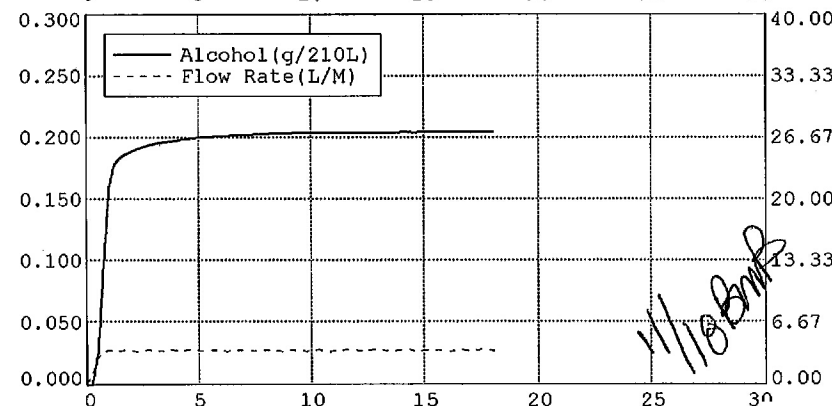
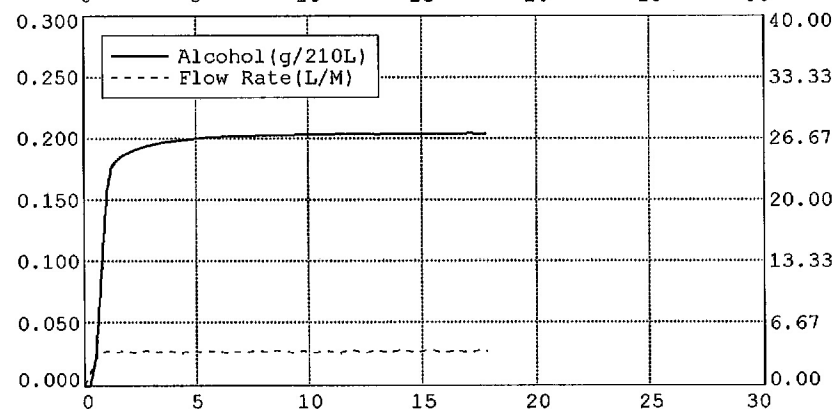
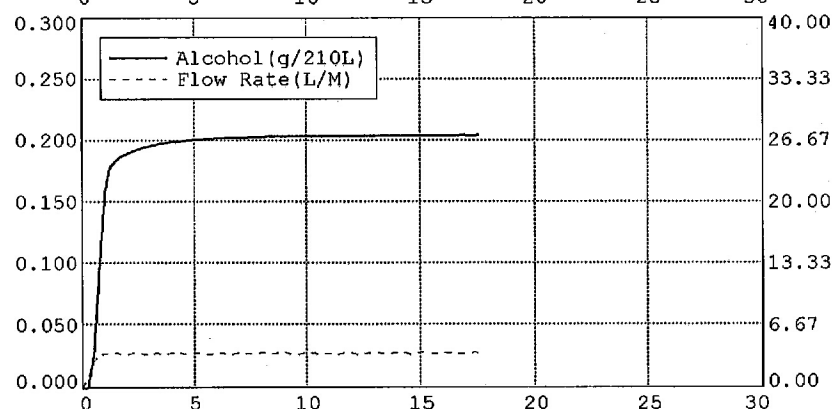
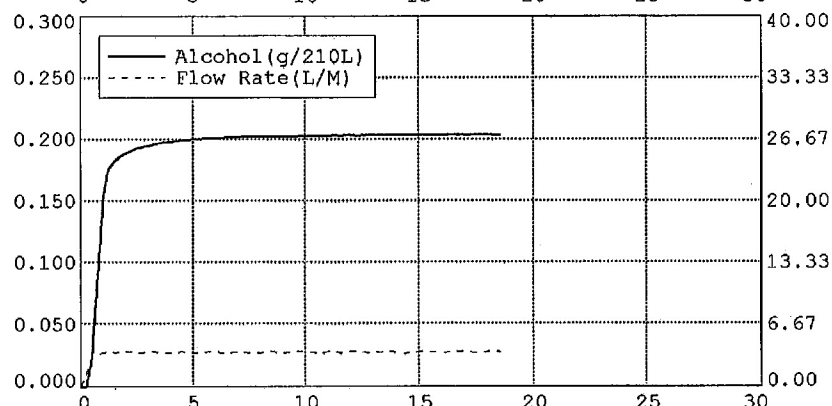
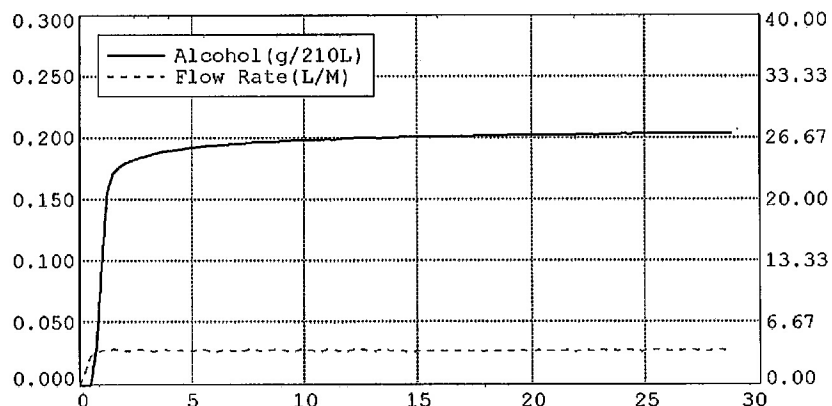
LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.204	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.204	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.205	14:33
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.205	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.205	14:35
BLANK TEST	0.000	14:36

Average = 0.2053

Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100666

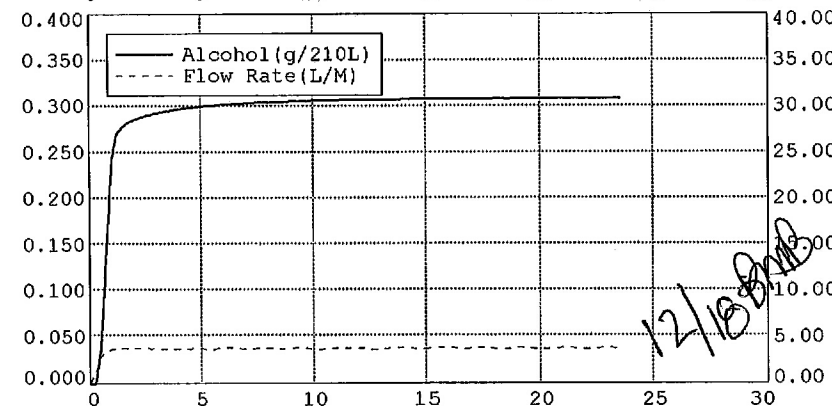
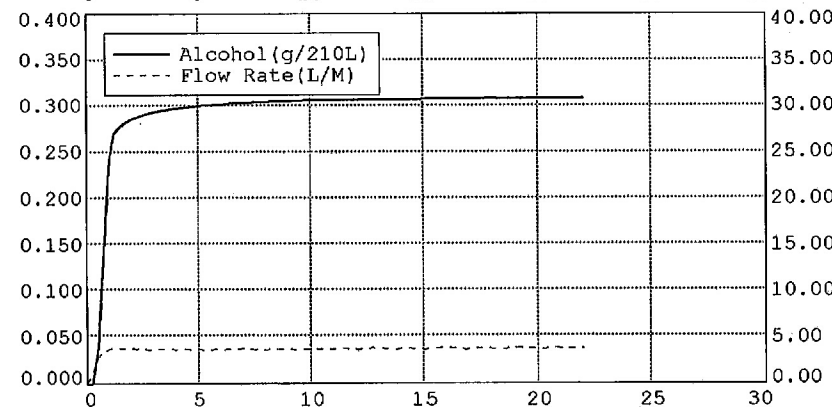
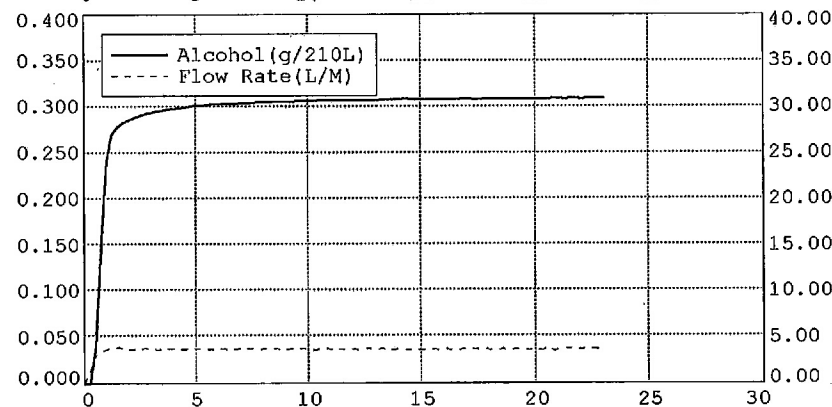
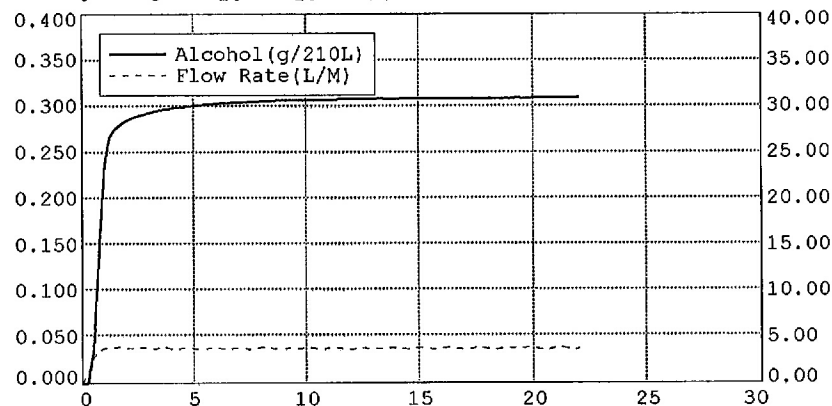
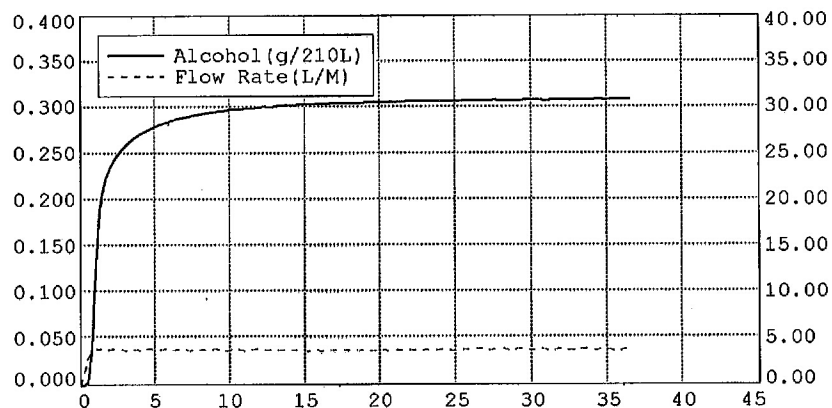
Date: 03/02/2012
Time: 14:40:08

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.309	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.309	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.309	14:45
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.308	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.308	14:47
BLANK TEST	0.000	14:48

Average = 0.3089
Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100666

Date: 03/05/2012
 Time: 13:46:53

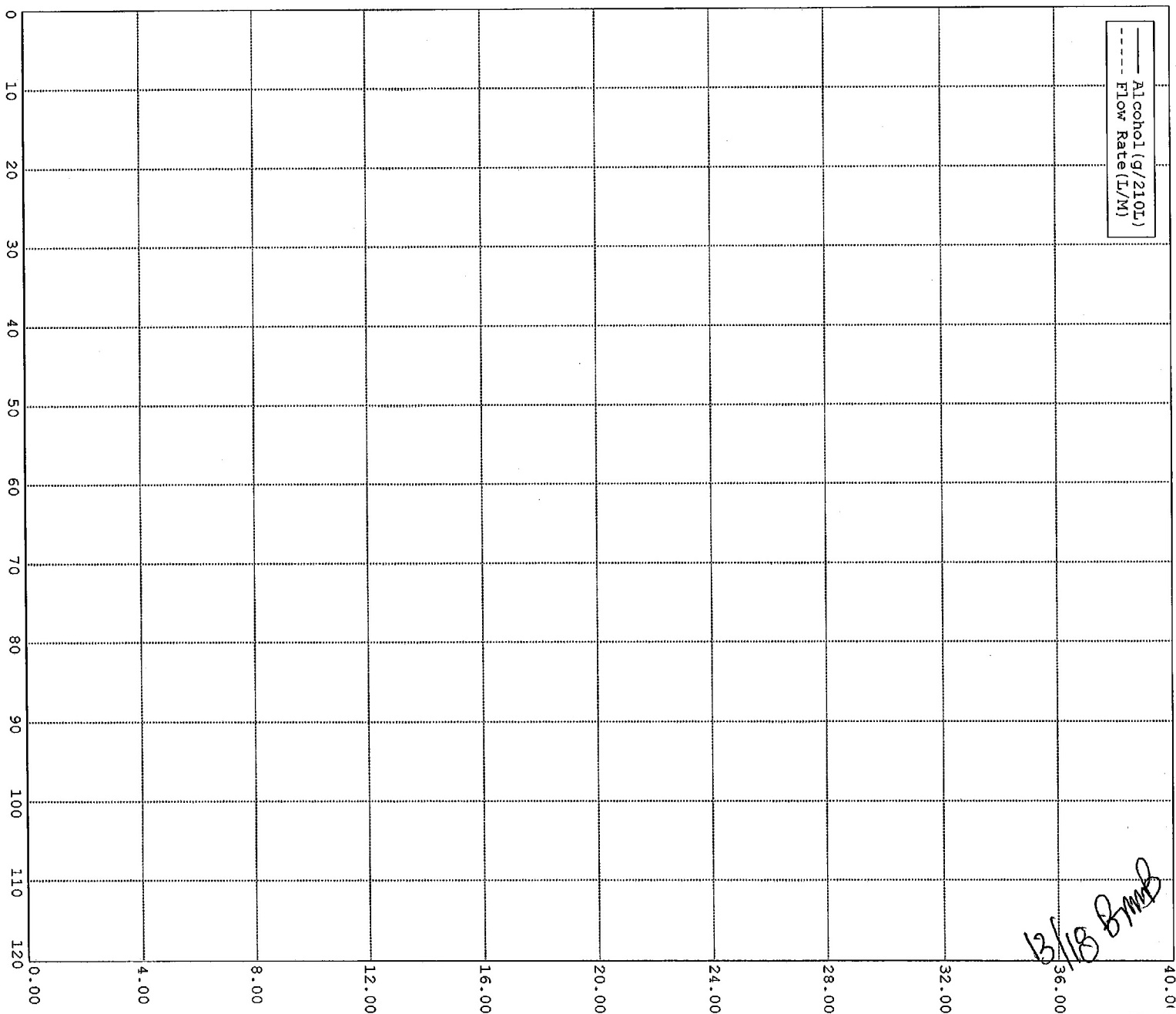
SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
 XXXX
 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	13:48
BLANK TEST	0.000	13:48
INTERNAL STANDARD	VERIFIED	13:48
EXTERNAL STANDARD	0.078	13:48
BLANK TEST	0.000	13:49
SUBJECT SAMPLE	INCOMPLETE	13:51



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100666

Date: 03/05/2012

Time: 15:19:58

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 29.84: 0.079

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

BLANK TEST

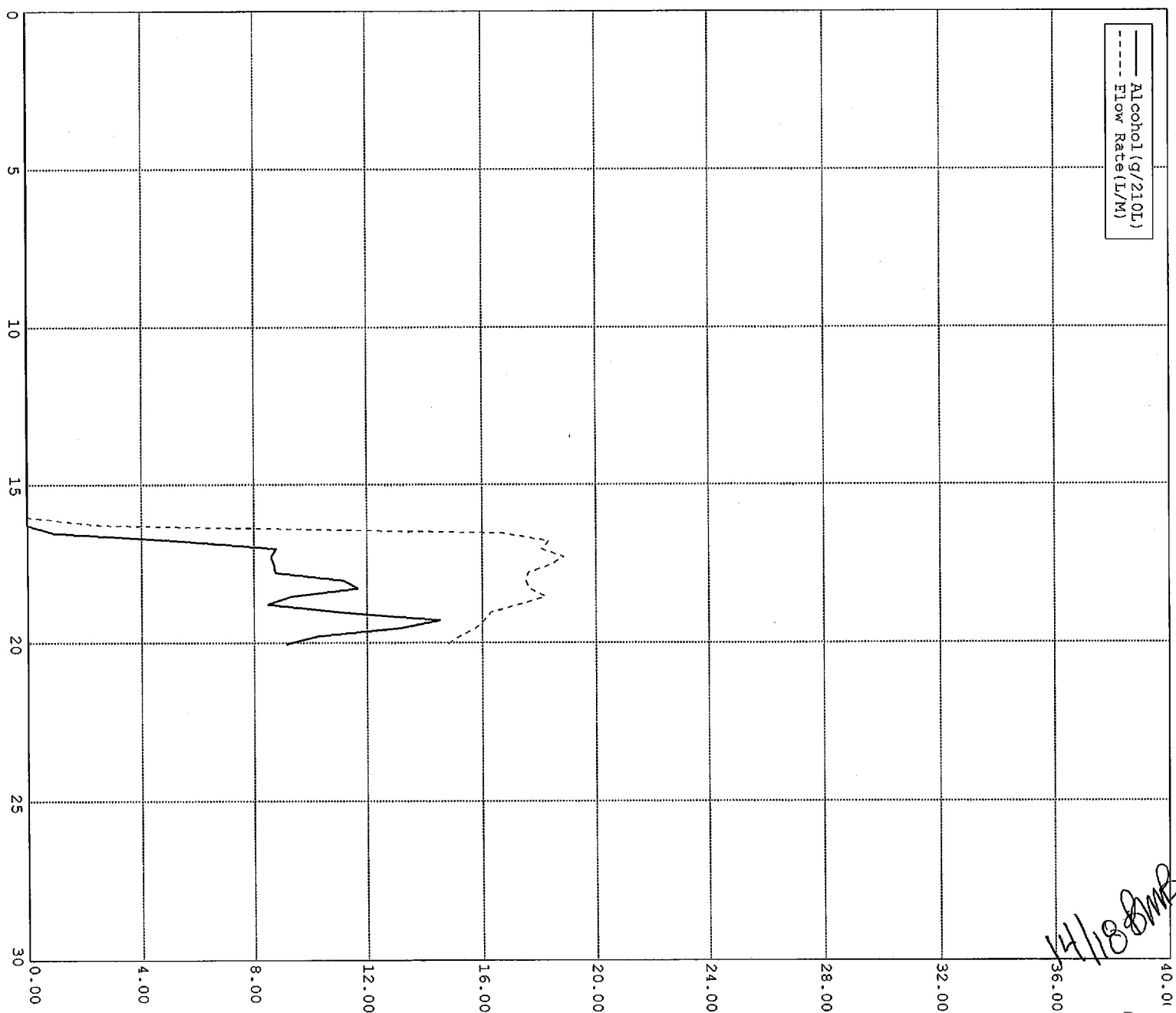
INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED	15:22
0.000	15:22
VERIFIED	15:23
0.078	15:23
0.000	15:24
INVALID	15:25



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

Date: 03/05/2012
 Time: 15:35:19

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

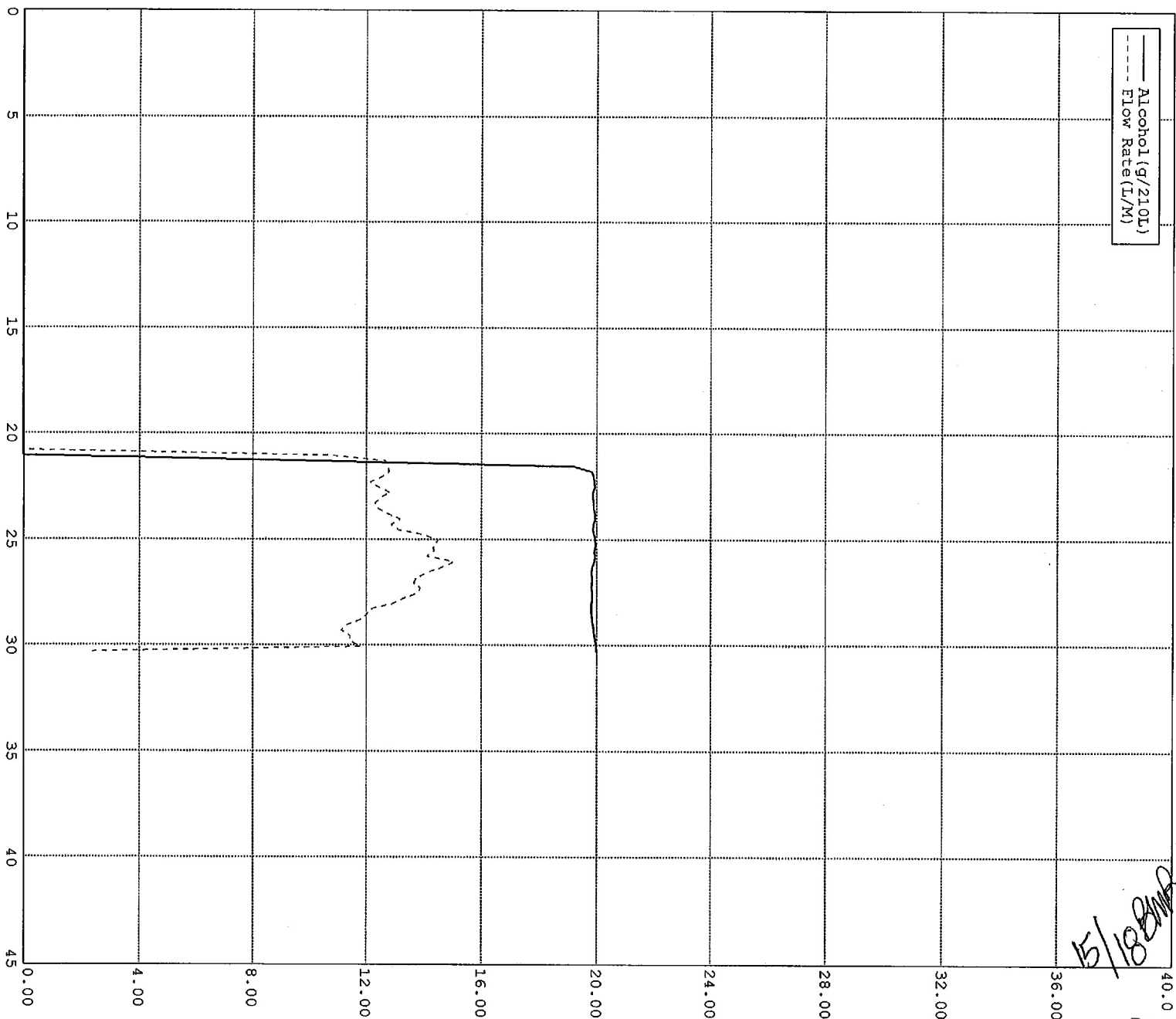
OPERATOR NAME:
 BRANDI M BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.83: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:36
BLANK TEST	0.000	15:36
INTERNAL STANDARD	VERIFIED	15:36
EXTERNAL STANDARD	0.078	15:36
BLANK TEST	0.000	15:37
SUBJECT SAMPLE	INTERFERENCE	15:38

BM



15/18

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 03/05/2012

Time: 15:42:21

SUBJECT NAME:

TEST TEST

LICENSE #: INTERFERE

OPERATOR NAME:

BRANDI BARNETT

OPERATOR'S #: 7038

DEPT/AGENCY:

ACETONE AND ETHANOL

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.84: 0.079

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

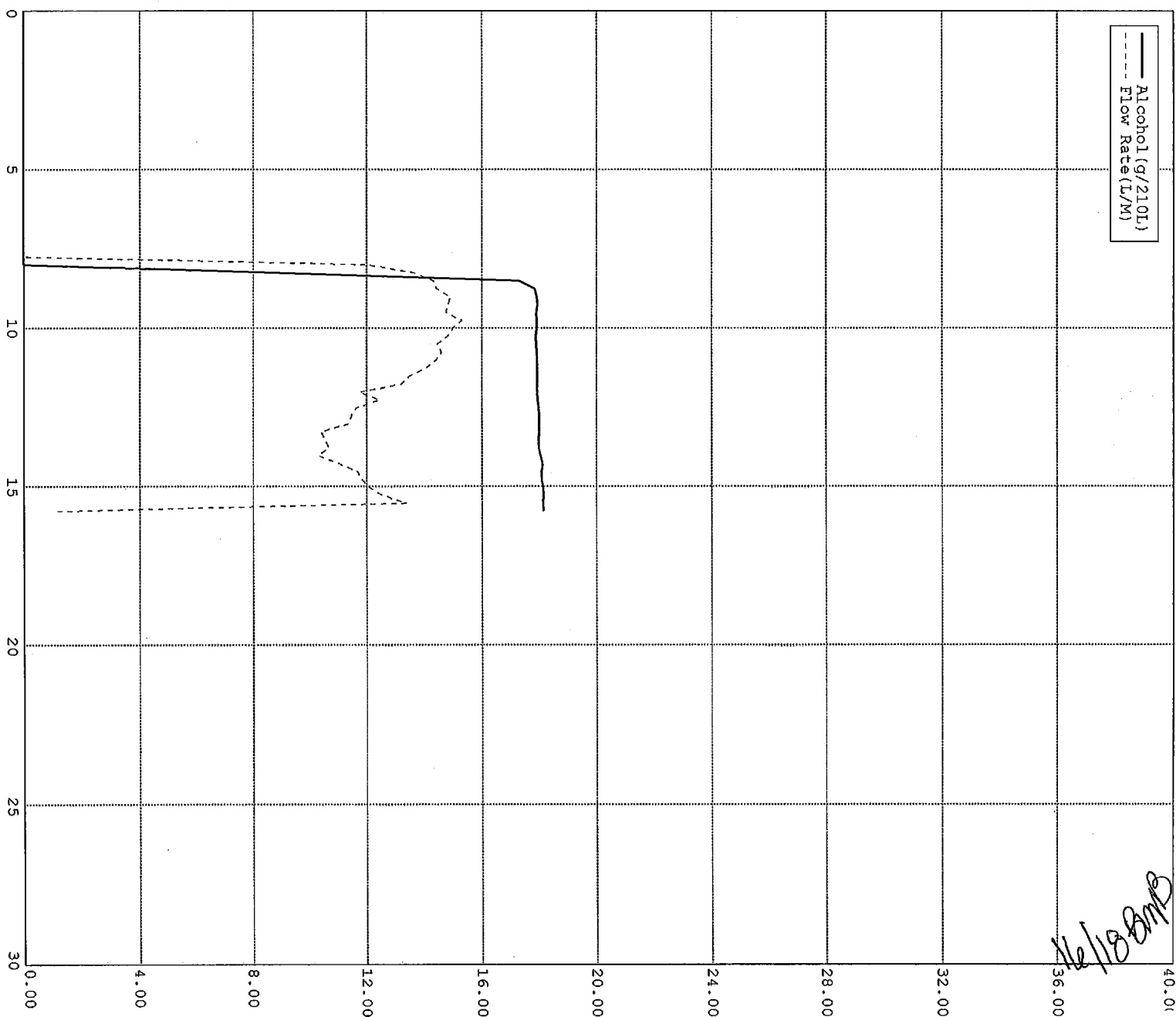
EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED	15:43
0.000	15:43
VERIFIED	15:43
0.079	15:44
0.000	15:45
INTERFERENCE	15:45

BDB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100666

Date: 03/05/2012
Time: 15:29:25

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

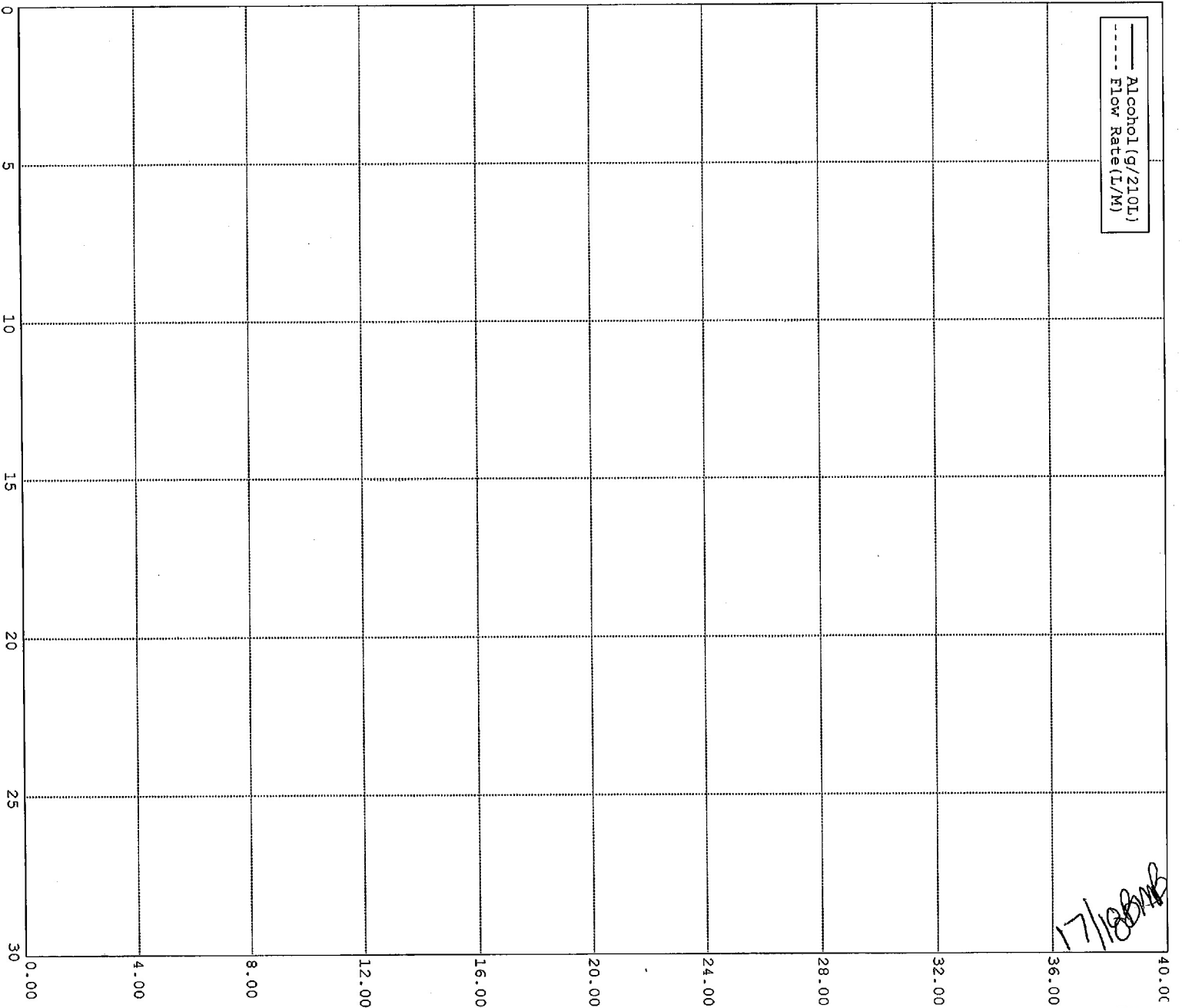
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK
BLANK TEST PASSED 15:31
INTERNAL STANDARD VERIFIED 15:31
EXTERNAL STANDARD 0.078 15:31
BLANK TEST 0.000 15:32

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100666

Date: 03/05/2012

Time: 15:30:45

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

BRANDI BARNETT

OPERATOR'S #: 7038

DEPT/AGENCY:

NONDRINKING SUBJECT TEST

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.80: 0.079

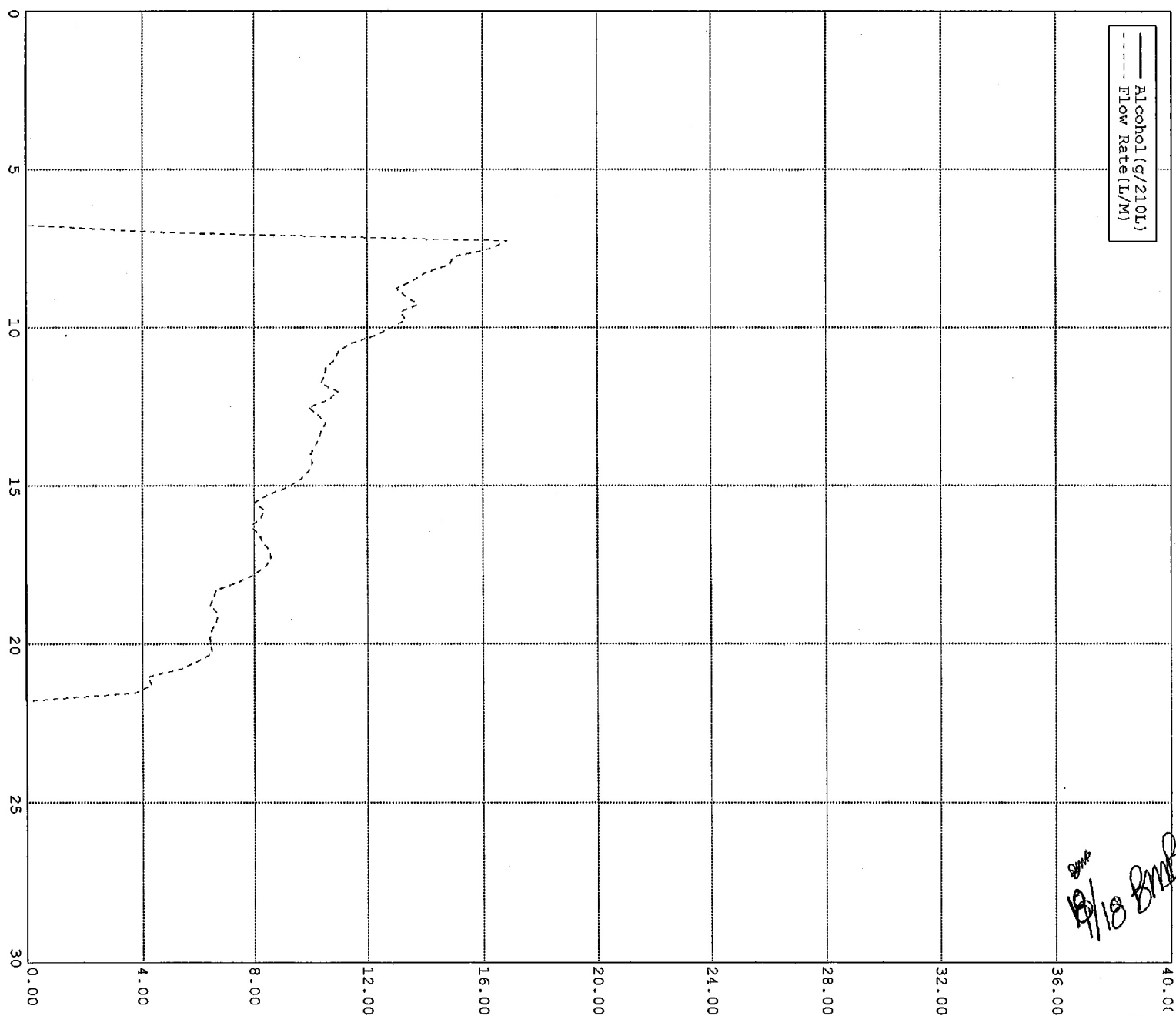
LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

	PASSED	15:32
BLANK TEST	0.000	15:32
INTERNAL STANDARD	VERIFIED	15:32
EXTERNAL STANDARD	0.079	15:33
BLANK TEST	0.000	15:34
SUBJECT SAMPLE	0.000	15:34
BLANK TEST	0.000	15:35
EXTERNAL STANDARD	0.079	15:35
BLANK TEST	0.000	15:36

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