	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form – DMCEF2011R1		
	Issuing Authority – Nita Bolz, Scientific Director		
Approval date: 03/10/11	Effective date: 03/10/11	Archive date: Active	

DataMaster DMT Certification Form

Instrument # 100363Analyst Brandi BarnettDate 5/2/11

1. Diagnostic Test (attached)
2. Voltage Checks
 - a. Adjust voltages, if needed
 - i. Lamp
 - ii. Bias
 - iii. Cooler
 - iv. Chopper Frequency
 - b. Set RFI
 - c. Adjust barometer reading, if needed
 - d. Adjust volume setting, if needed
 - e. Print Technician Screen (attached)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1600 mL
5. Dry Gas Linearity Test (attached)
 - a. Levels Used
 - i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 02/01/2013
 - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013
 - iii. 0.080g/210L Mnf ILMO Lot 02511080A3 Exp 02/01/2013
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/2013
 - v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 03/01/2013
 - vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 03/01/2013
6. Functional Tests (attached)
 - a. Incomplete
 - b. Invalid
 - c. Interference
 - i. Acetone - Mnf Guth Lot 09346 Level 0.080 Exp 12/2/2011
 1. Simulator Calibration Date 10/18/2010 SN DR6267
 - ii. Isopropanol - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/2011
 1. Simulator Calibration Date 01/4/2010 SN SD1202
 - d. RFI
7. Calibrate Stylus
8. Verify card reader is functional
9. Upload
10. Reset Options
11. Non-Drinking Subject Test (attached)

11/08/11

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 05/02/2011
Time: 13:46:19

VERSIONS
DMT: 1.01
PIC: 3.02
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
Breath Tube = 44.4°C PASSED

PUMP INFO
Flow Rate = 5.836 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

2/10/08 MB

Technician Screen

DATAMASTER dmt: 100363

Date: 05/02/2011
Time: 1:53 PM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 43.4°C

Current Barometer 29.7 in
Volume (Ltr) 1.54

Settings

Lamp: 1.77 V
Bias: 80 V
Cooler: 1.69 V
Chopper: 539 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.142 V

3/18/11 MB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 04/26/2011
Time: 08:24:29

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2012

Ca = 0.1000
CAL = 0.982000 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0049 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0808 0.0500 <= Xq < 0.2000
a21 = 1.164486 1.050 <= a21 < 1.300
a31 = 0.451262 0.300 <= a31 < 0.800

Handwritten signature/initials

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100363

Date: 05/02/2011
 Time: 13:56:45

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

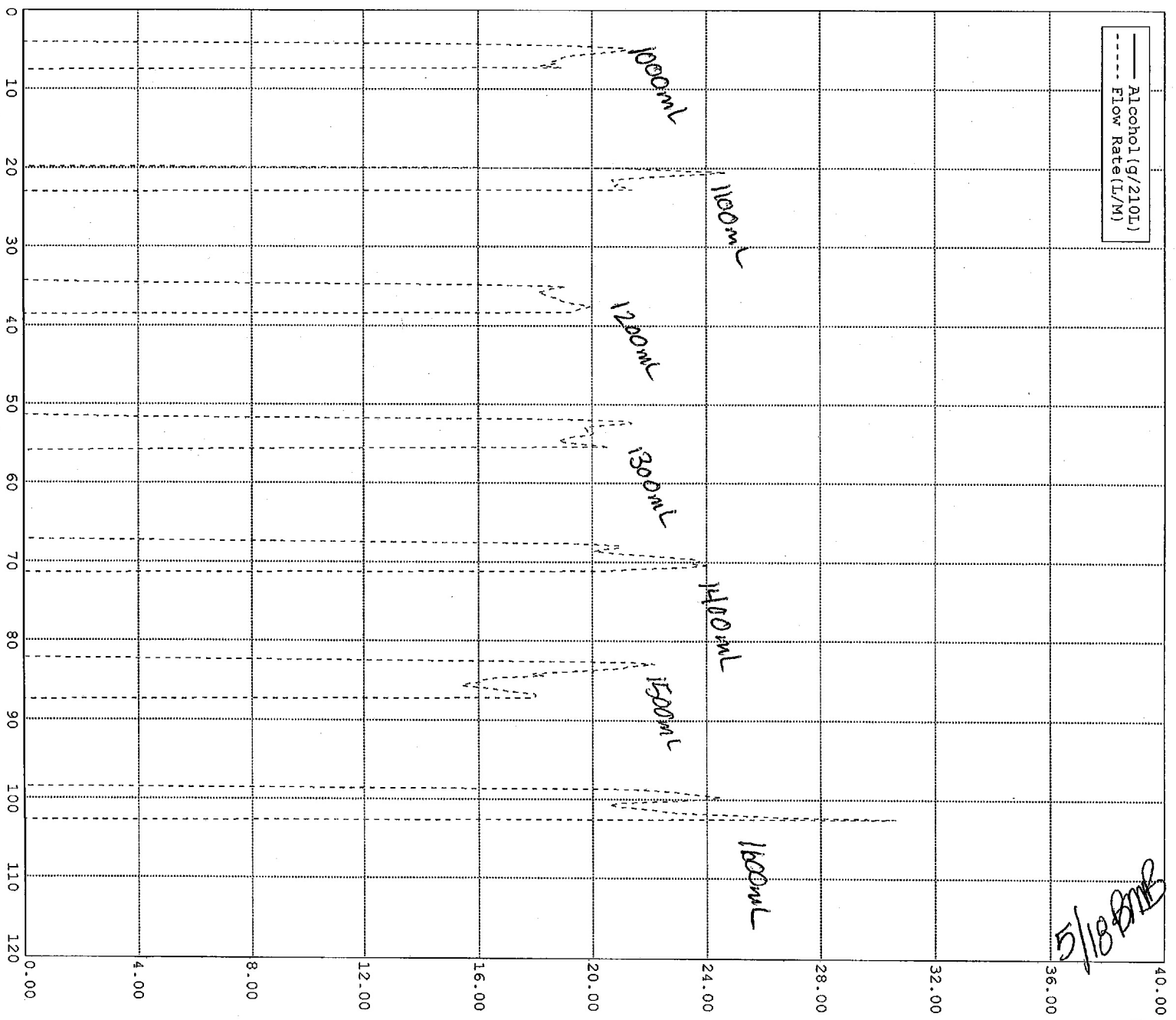
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.67: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:57
BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:58
EXTERNAL STANDARD	0.080	13:58
BLANK TEST	0.000	13:59
SUBJECT SAMPLE	0.000	14:01
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.079	14:02
BLANK TEST	0.000	14:03

BMB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100363

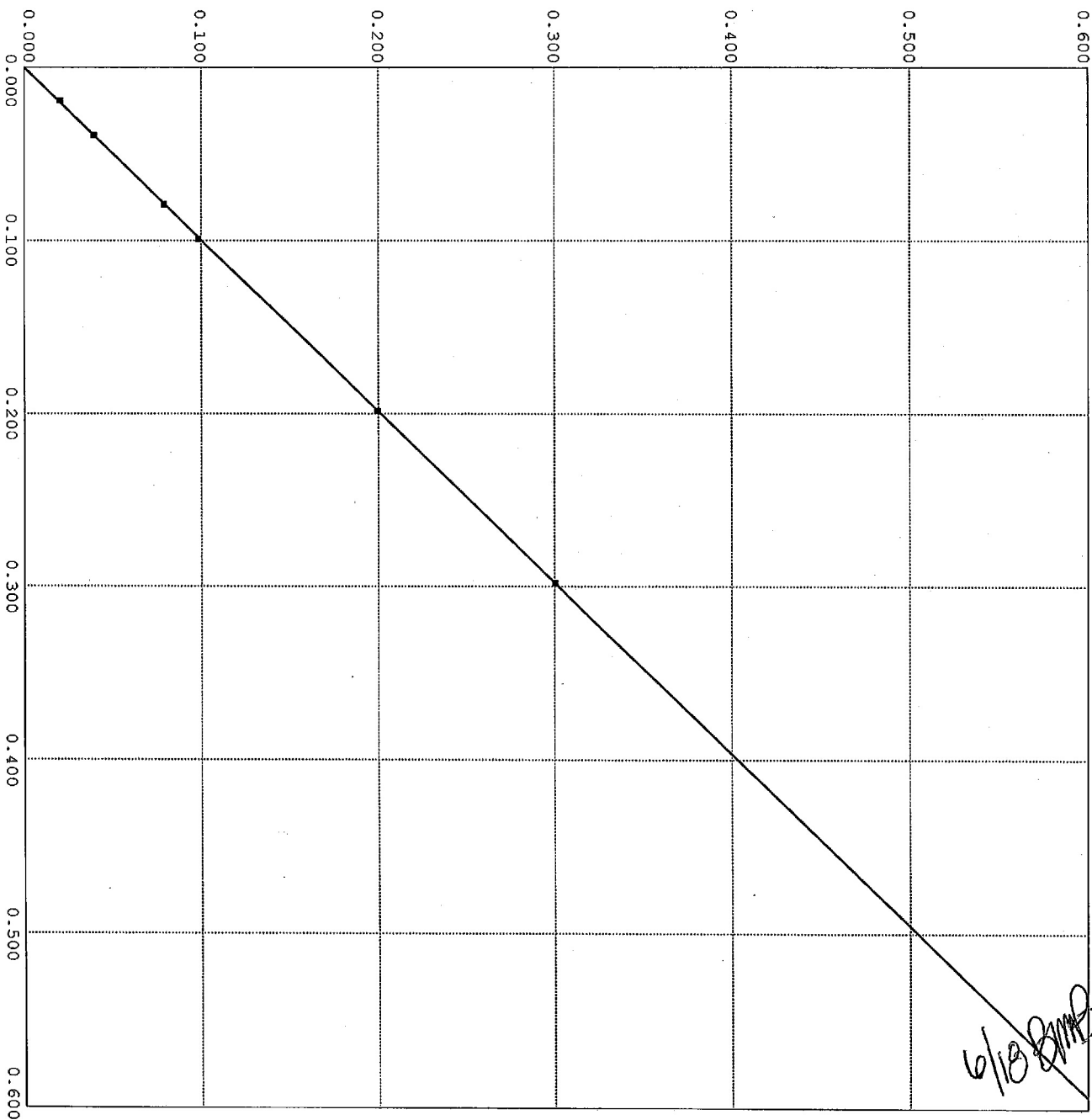
Date: 05/02/2011
 Time: 14:11:19

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0204	0.0005
0.039	0.0398	0.0004
0.079	0.0796	0.0005
0.099	0.0994	0.0009
0.198	0.2004	0.0005
0.297	0.3010	0.0007

SLOPE = 1.011344
 R² = 0.999980

BMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100363

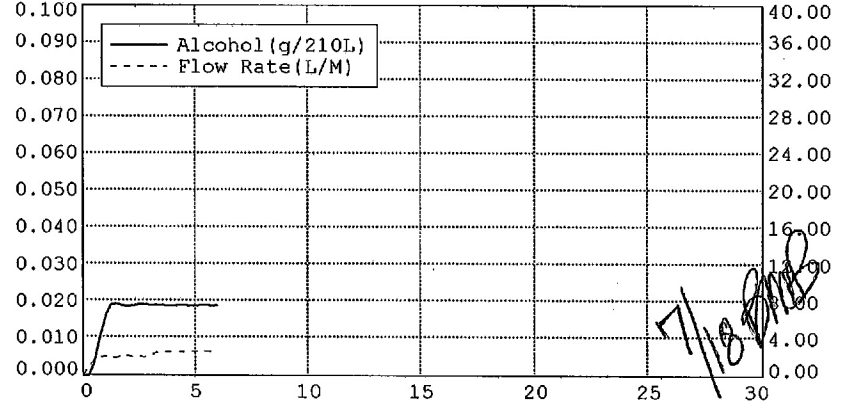
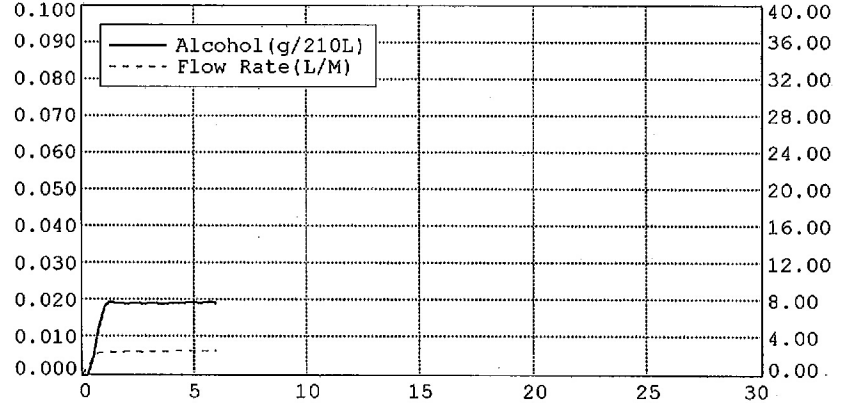
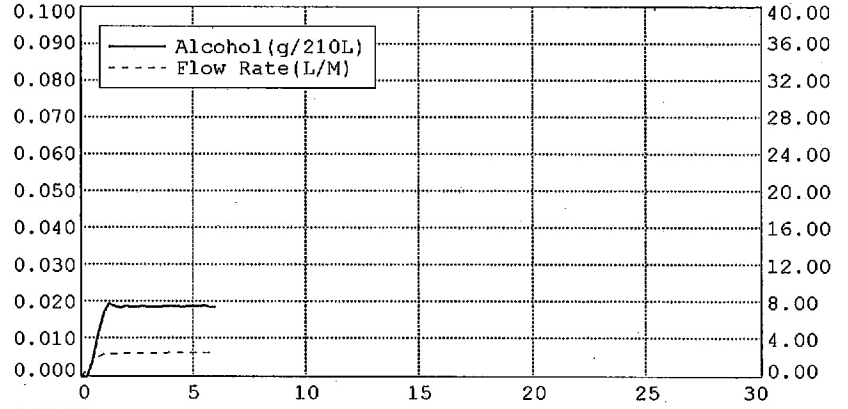
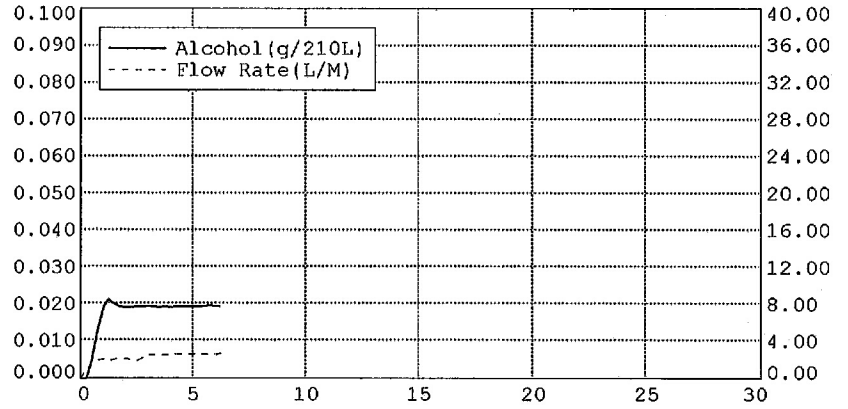
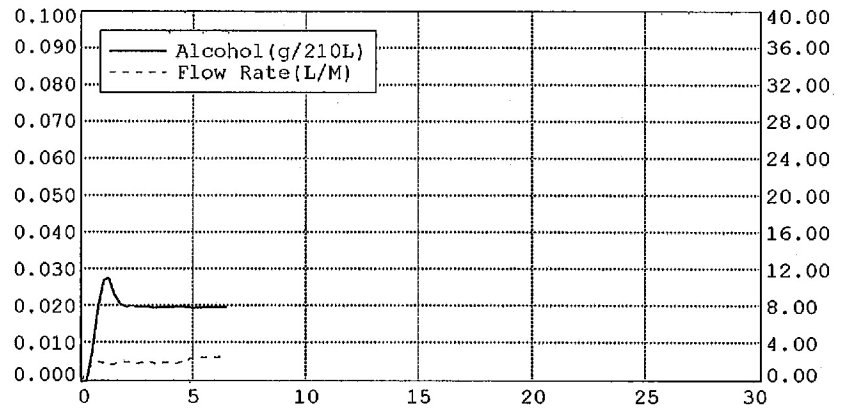
Date: 05/02/2011
 Time: 14:11:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.66: 0.019
 LOT #: 02811020A1
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
EXTERNAL STANDARD	0.021	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.020	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.020	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.021	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.020	14:17
BLANK TEST	0.000	14:18

Average = 0.0204
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

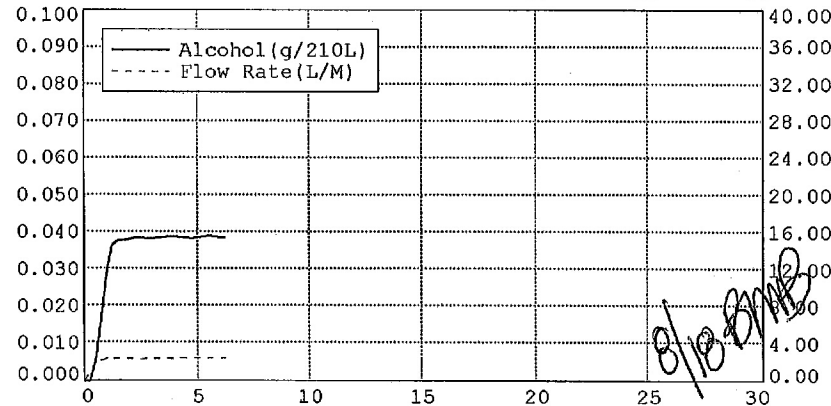
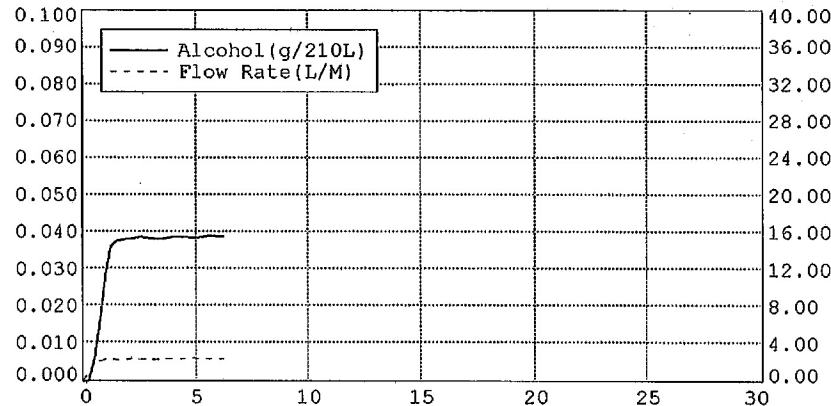
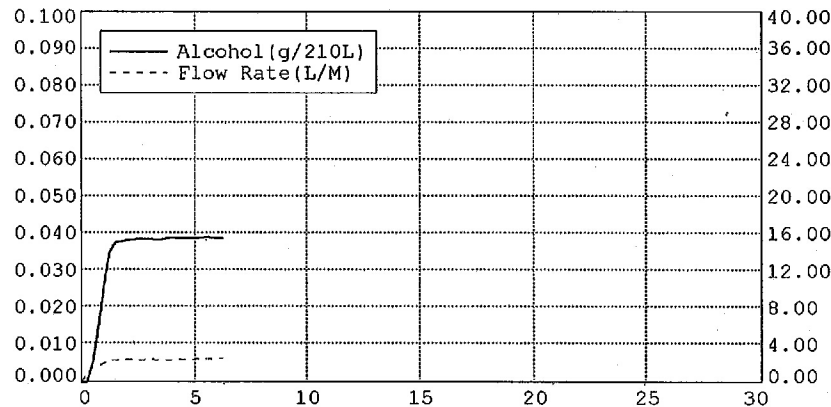
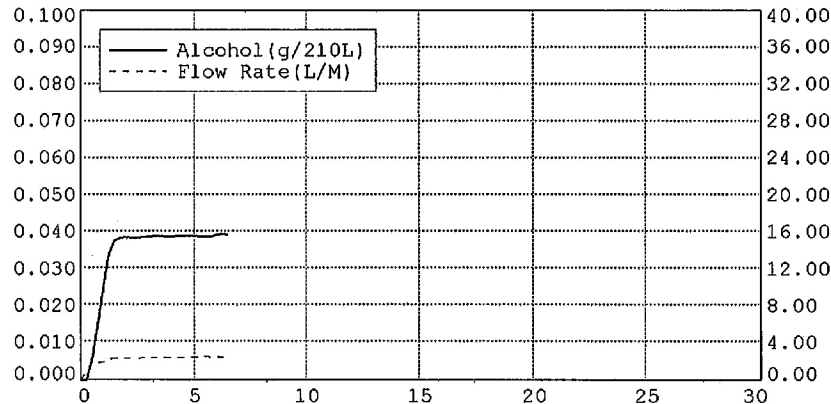
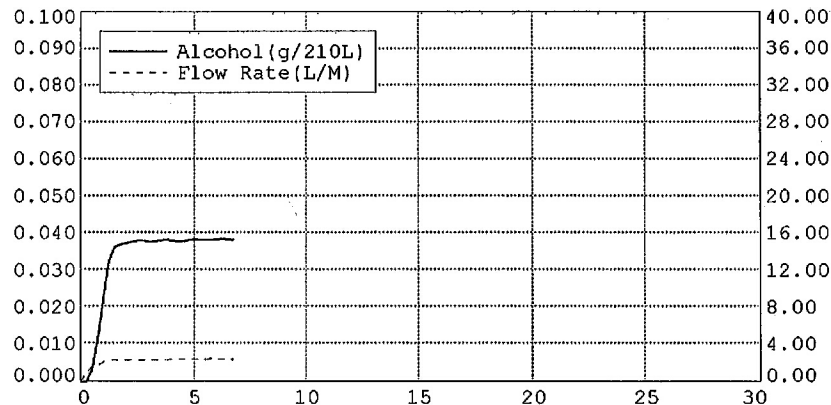
Alaska Department of Public Safety
 DATAMASTER dmt: 100363

Date: 05/02/2011
 Time: 14:21:32

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.66: 0.039
 LOT #: 02811040A2
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:22
INTERNAL STANDARD	VERIFIED	14:22
EXTERNAL STANDARD	0.039	14:23
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.040	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.040	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.040	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.040	14:27
BLANK TEST	0.000	14:28

Average = 0.0398
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100363

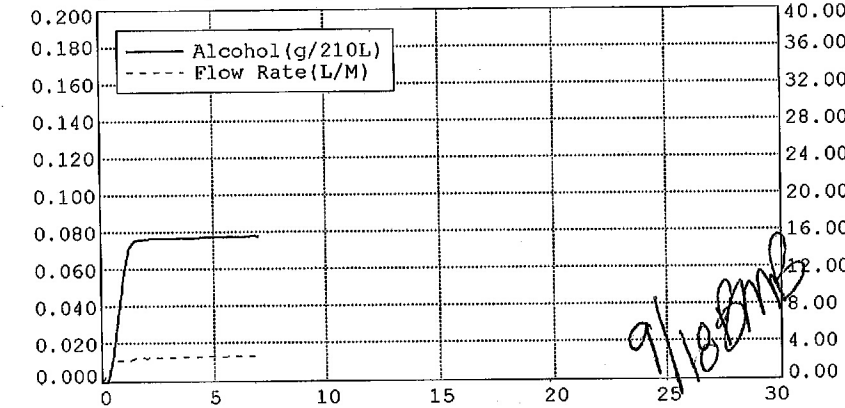
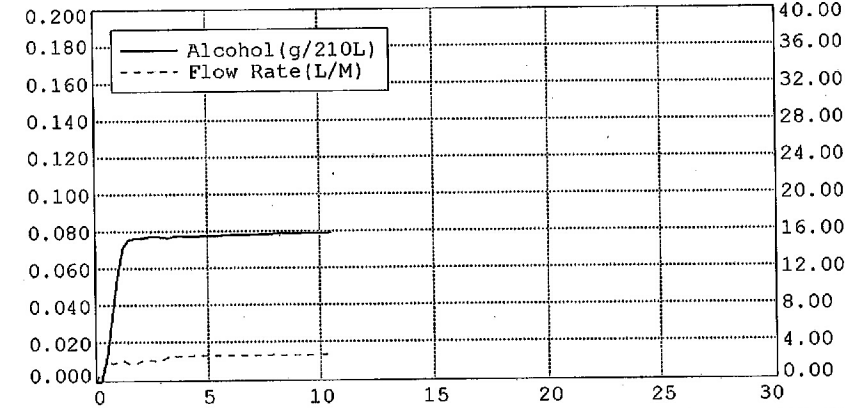
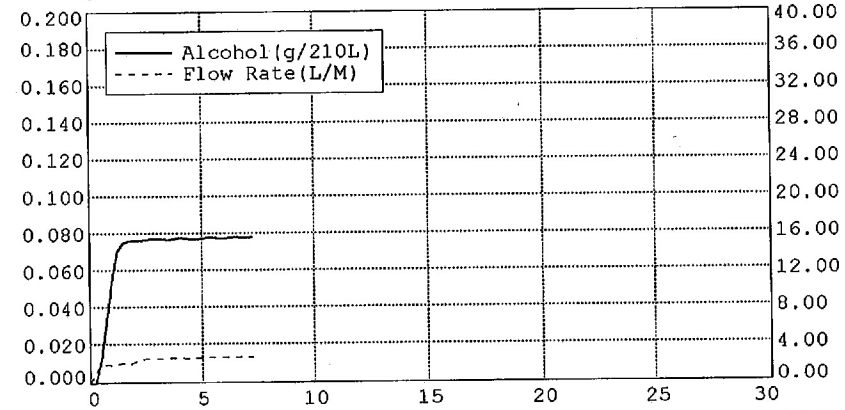
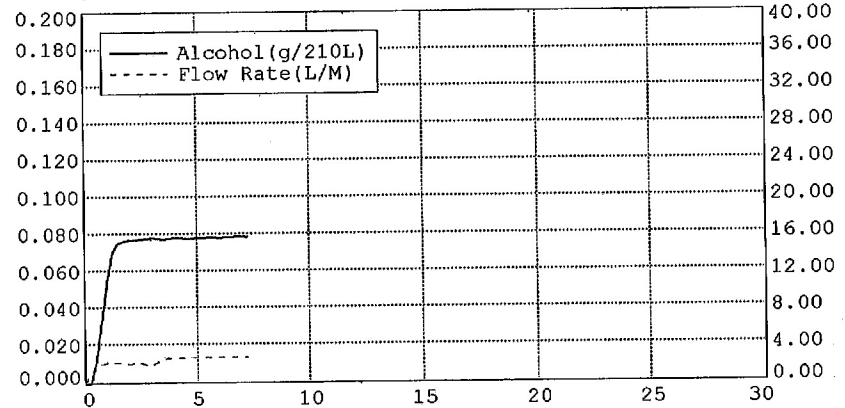
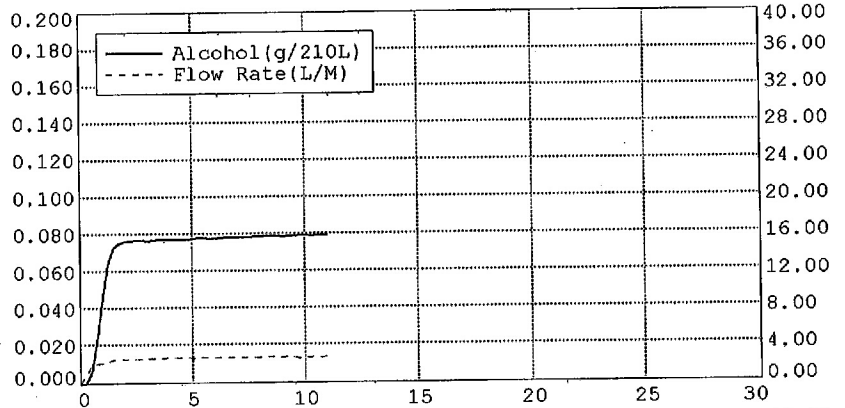
Date: 05/02/2011
 Time: 14:30:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.65: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.080	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.080	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.079	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.080	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.079	14:36
BLANK TEST	0.000	14:37

Average = 0.0796
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100363

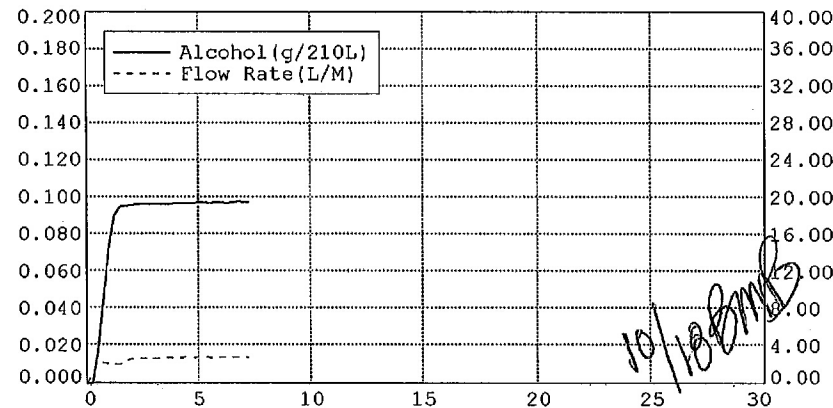
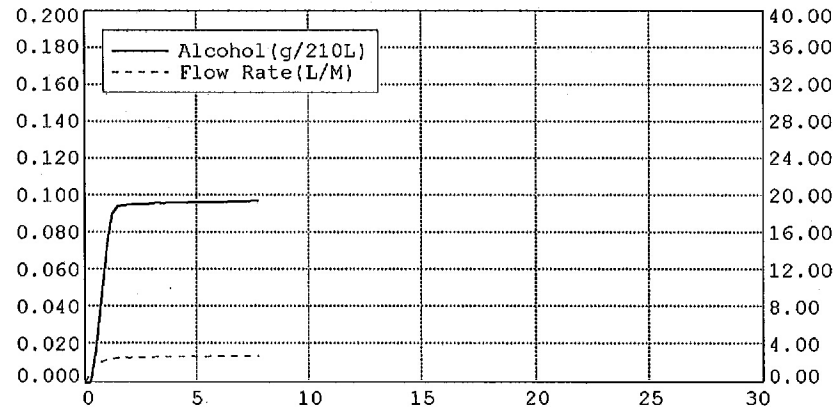
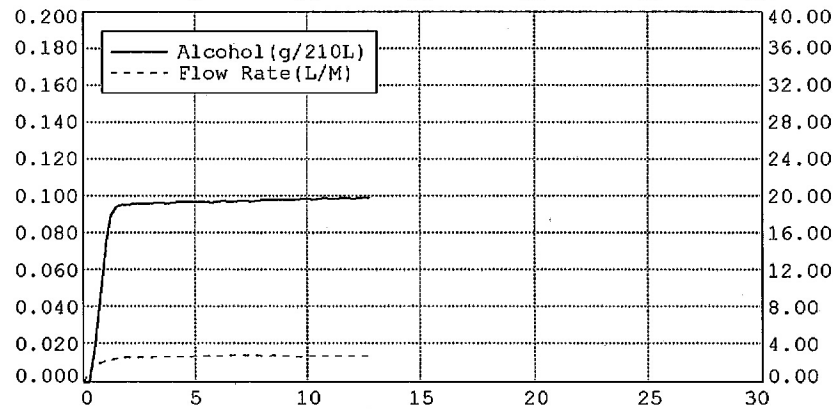
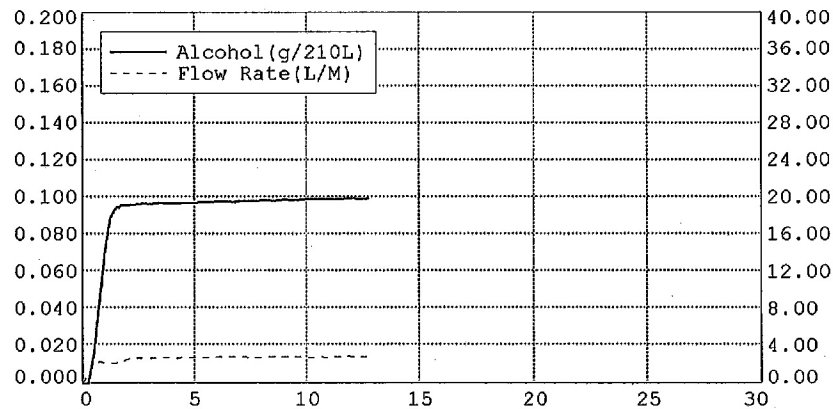
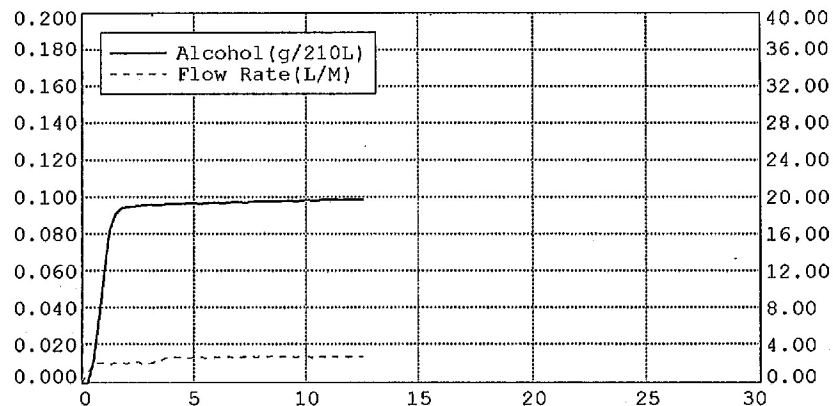
Date: 05/02/2011
 Time: 14:39:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.64: 0.099
 LOT #: 05611100A2
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.100	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.100	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.100	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.098	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.099	14:46
BLANK TEST	0.000	14:47

Average = 0.0994
 Std Dev = 0.0009



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100363

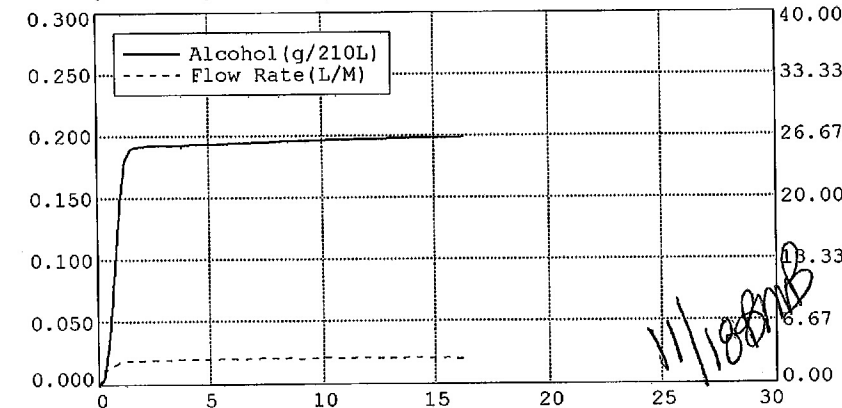
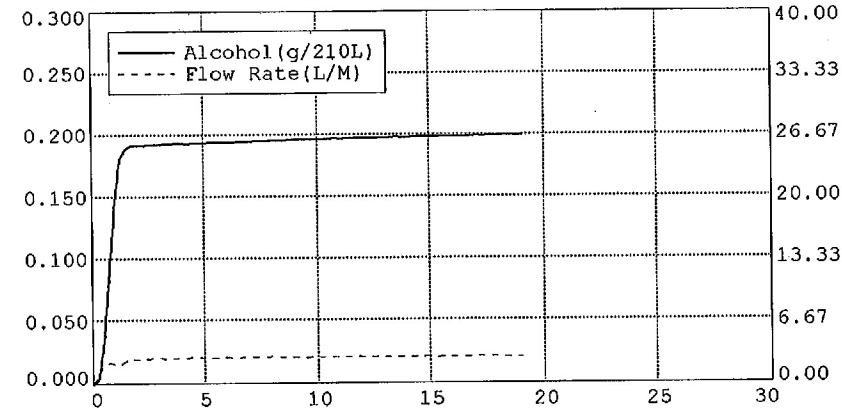
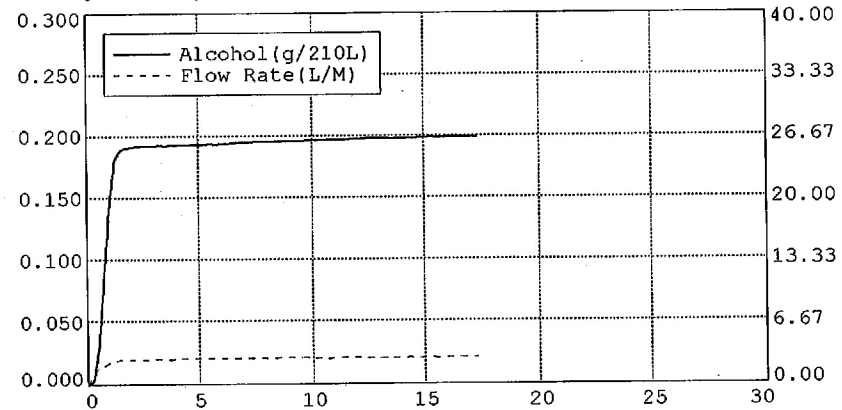
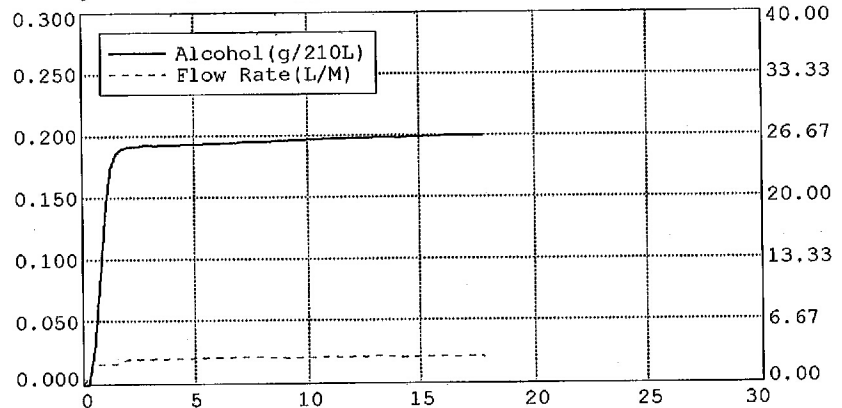
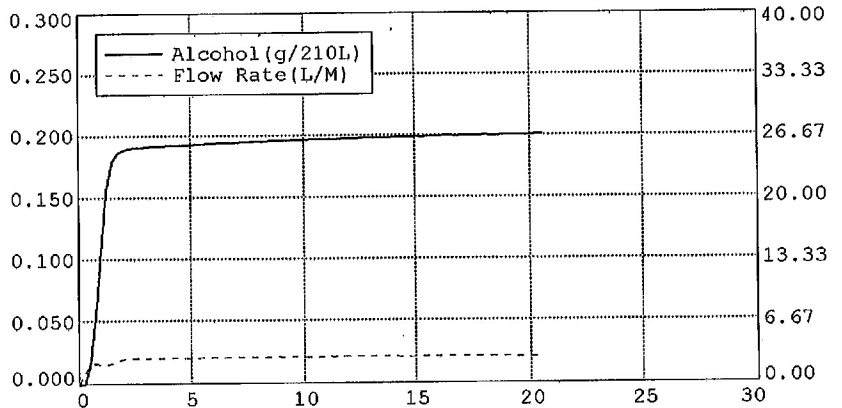
Date: 05/02/2011
 Time: 14:48:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 TARGET AT 29.64: 0.198
 LOT #: 07411200A2
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.201	14:50
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.201	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.200	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.200	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.200	14:56
BLANK TEST	0.000	14:58

Average = 0.2004
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

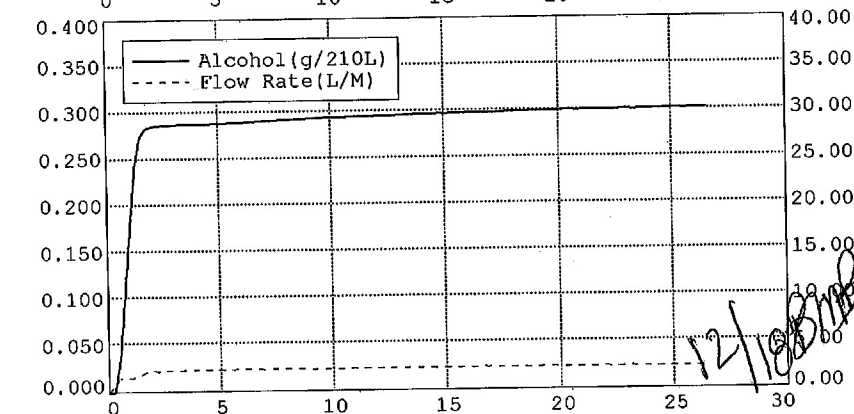
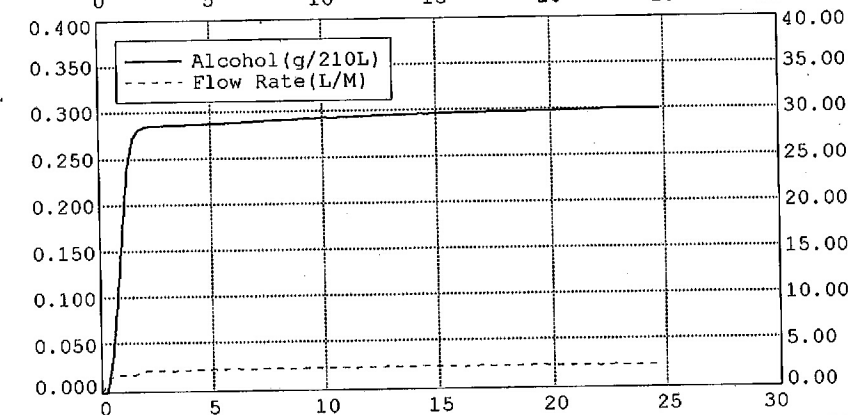
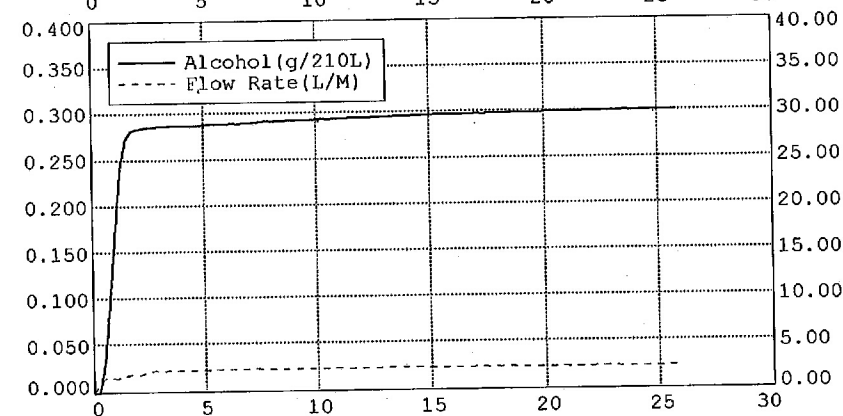
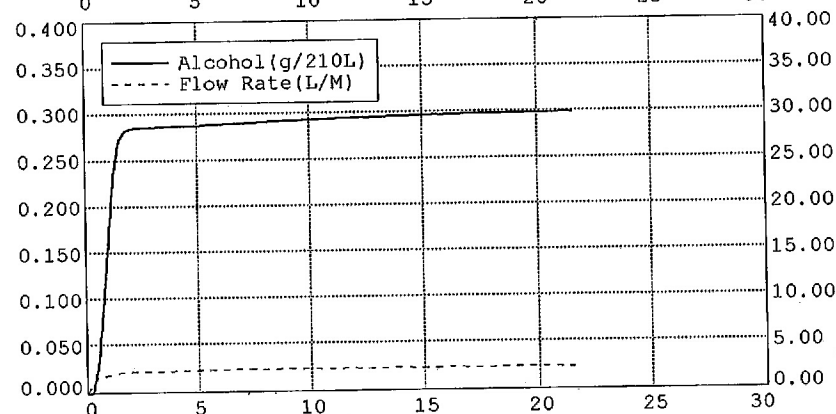
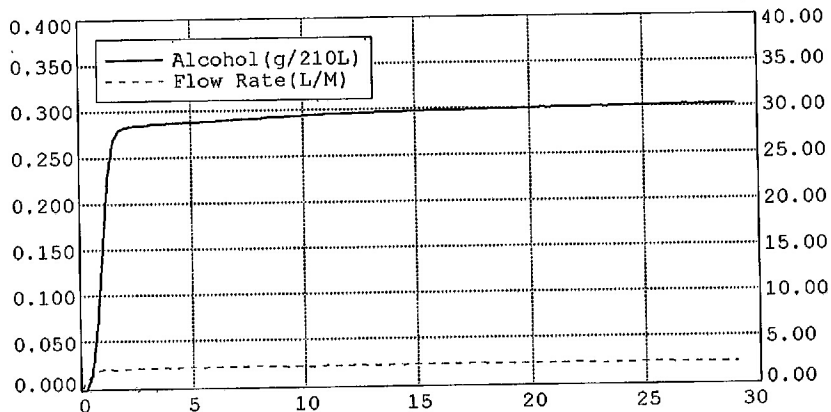
Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 05/02/2011
Time: 15:03:32

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
TARGET AT 29.64: 0.297
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:04
INTERNAL STANDARD	VERIFIED	15:05
EXTERNAL STANDARD	0.302	15:05
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.300	15:07
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.301	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.301	15:10
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.301	15:12
BLANK TEST	0.000	15:13

Average = 0.3010
Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 05/03/2011
Time: 10:22:50

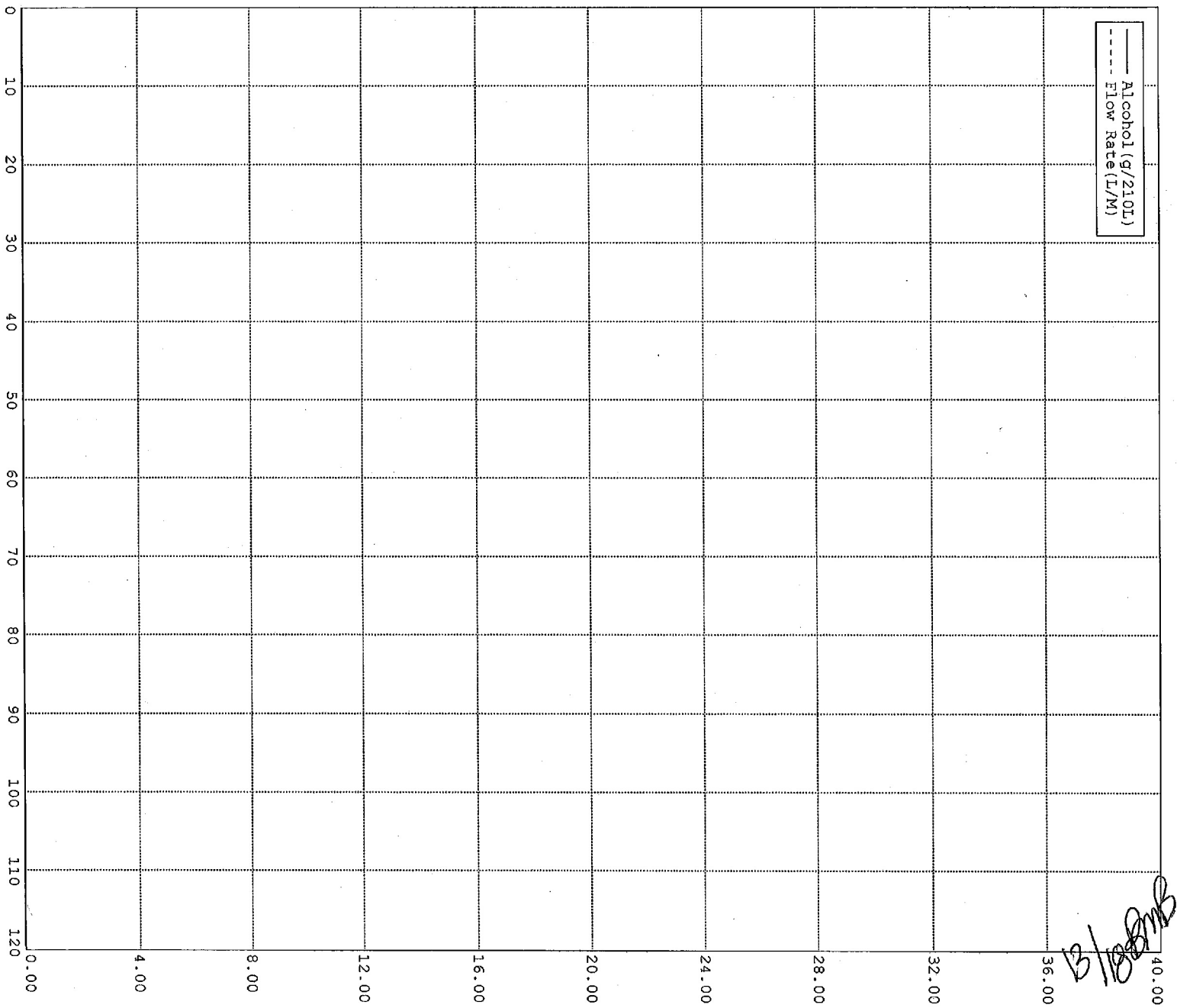
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:23
BLANK TEST	0.000	10:23
INTERNAL STANDARD	VERIFIED	10:24
EXTERNAL STANDARD	0.080	10:24
BLANK TEST	0.000	10:25
SUBJECT SAMPLE	INCOMPLETE	10:27



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100363

Date: 05/03/2011
 Time: 10:29:48

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

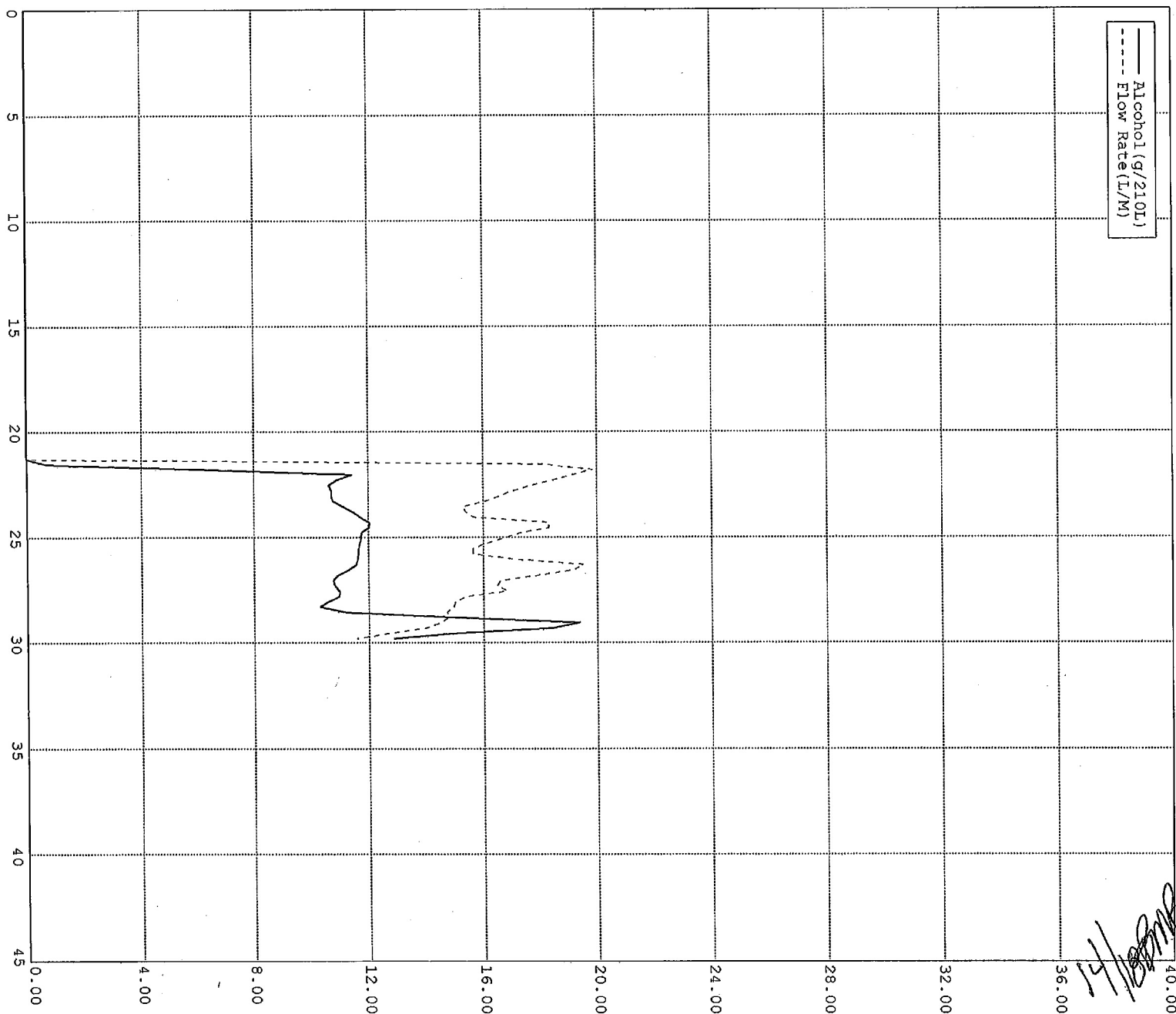
OPERATOR NAME:
 INVALID XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.78: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:31
BLANK TEST	0.000	10:31
INTERNAL STANDARD	VERIFIED	10:31
EXTERNAL STANDARD	0.081	10:31
BLANK TEST	0.000	10:32
SUBJECT SAMPLE	Invalid	10:33

BRMB



BRMB
 5/3/11

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 05/03/2011
Time: 10:40:17

SUBJECT NAME:
TEST TEST
LICENSE #: INTERERE

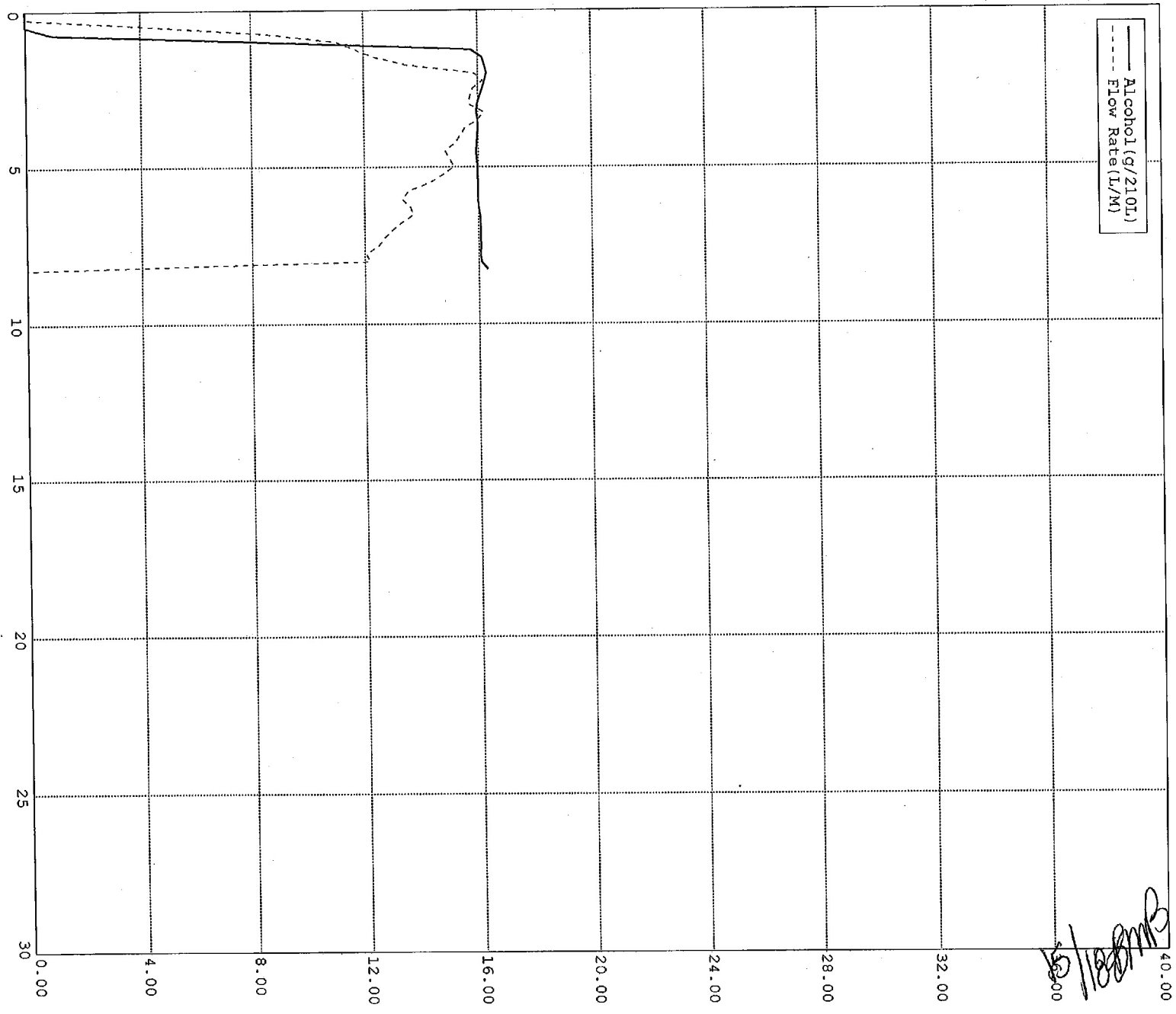
OPERATOR NAME:
ETHANOL AND ACETONE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:41
BLANK TEST	0.000	10:41
INTERNAL STANDARD	VERIFIED	10:41
EXTERNAL STANDARD	0.080	10:41
BLANK TEST	0.000	10:42
SUBJECT SAMPLE	INTERFERENCE	10:42

BMB



BMB
5/3/11

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 05/03/2011
Time: 10:46:00

SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERE

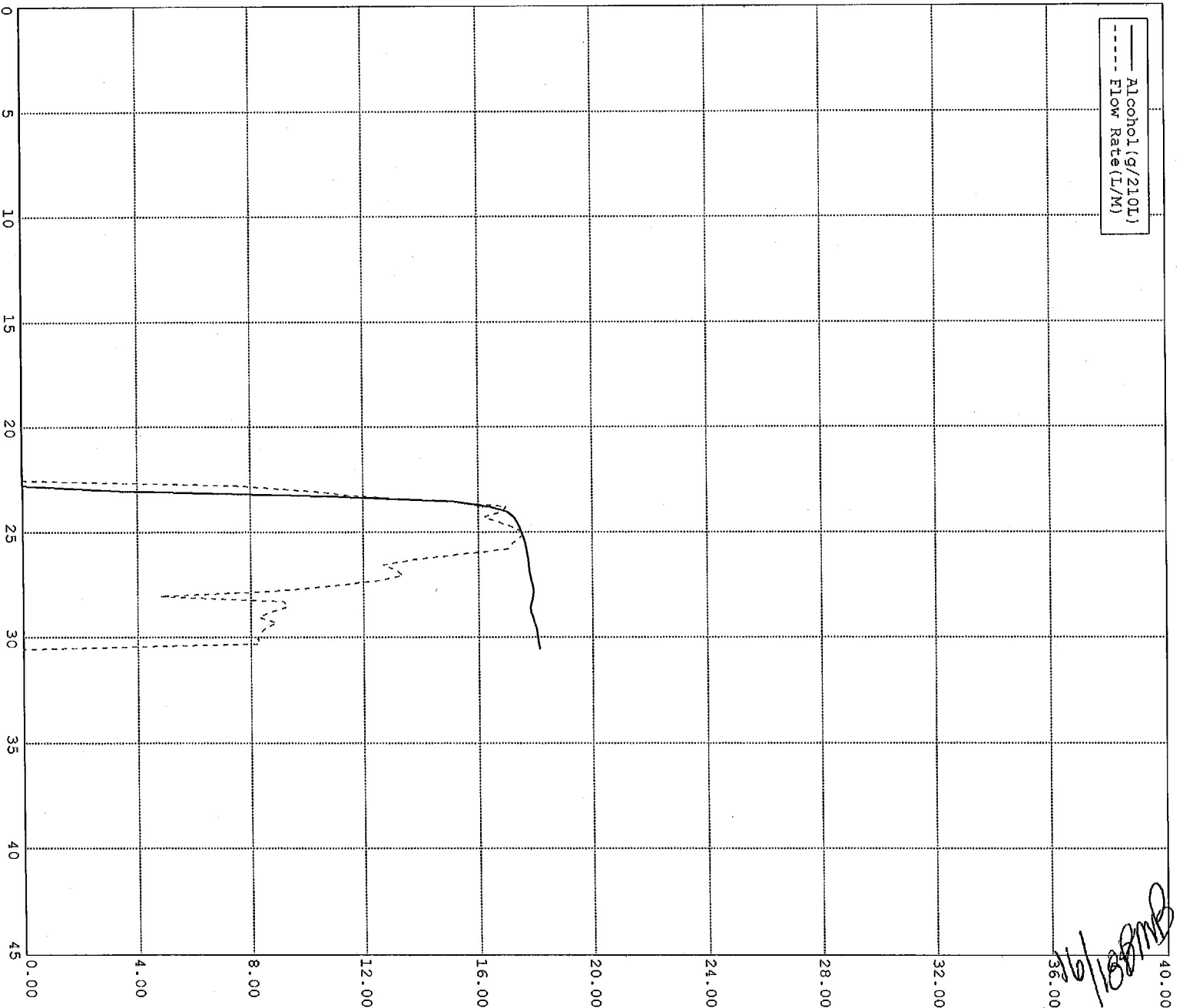
OPERATOR NAME:
ETHANOL AND ISOPROPANOL
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:47
BLANK TEST	0.000	10:47
INTERNAL STANDARD	VERIFIED	10:47
EXTERNAL STANDARD	0.080	10:47
BLANK TEST	0.000	10:48
SUBJECT SAMPLE	INTERFERENCE	10:49

BMB



BMB
5/3/11

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100363

Date: 05/03/2011
 Time: 10:52:39

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

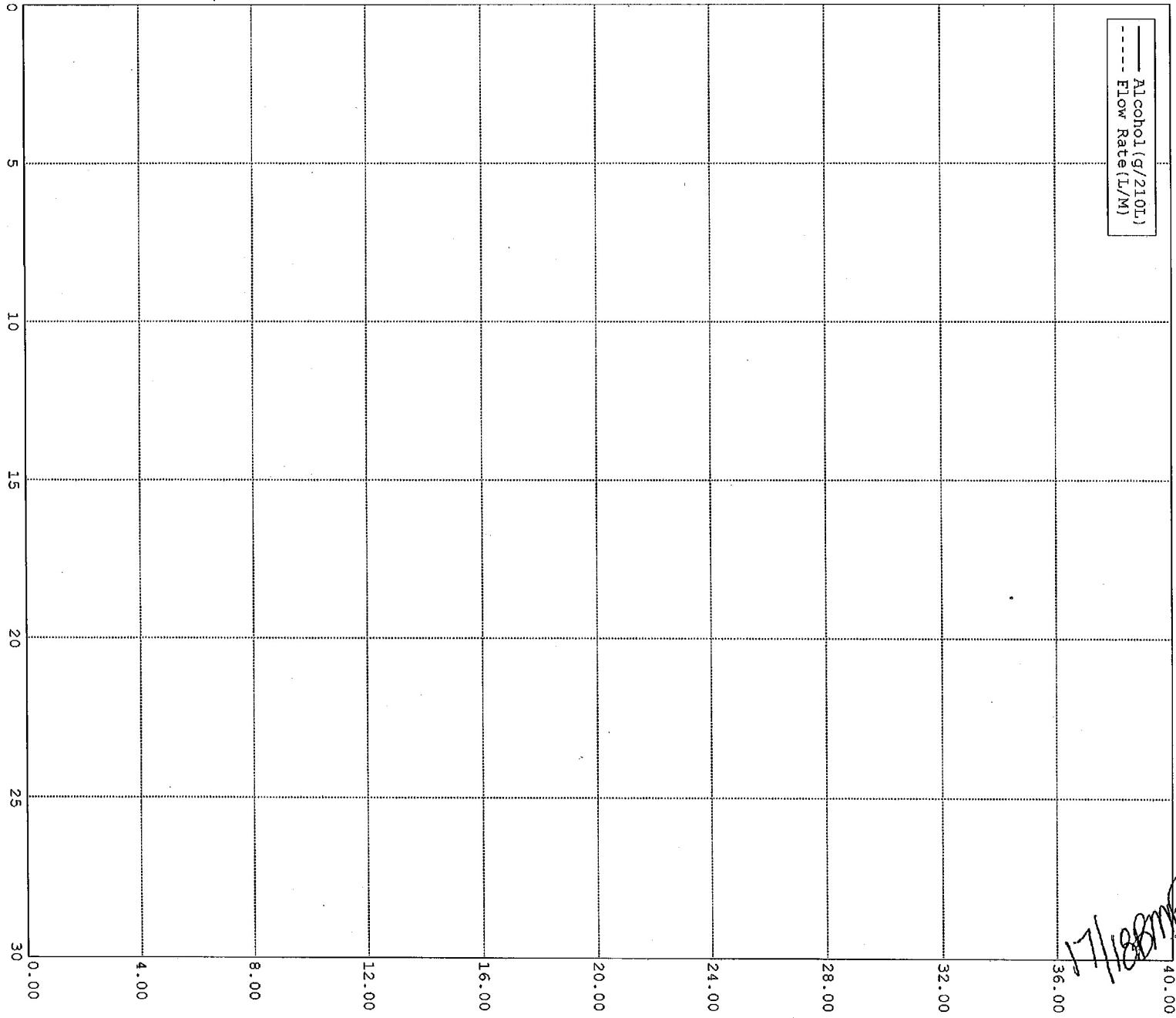
OPERATOR NAME:
 XXXX X XXX
 OPERATOR'S #: XXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.78: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:54
BLANK TEST	0.000	10:54
INTERNAL STANDARD	VERIFIED	10:54
EXTERNAL STANDARD	0.080	10:54
BLANK TEST	0.000	10:55

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 05/03/2011
Time: 11:13:01

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

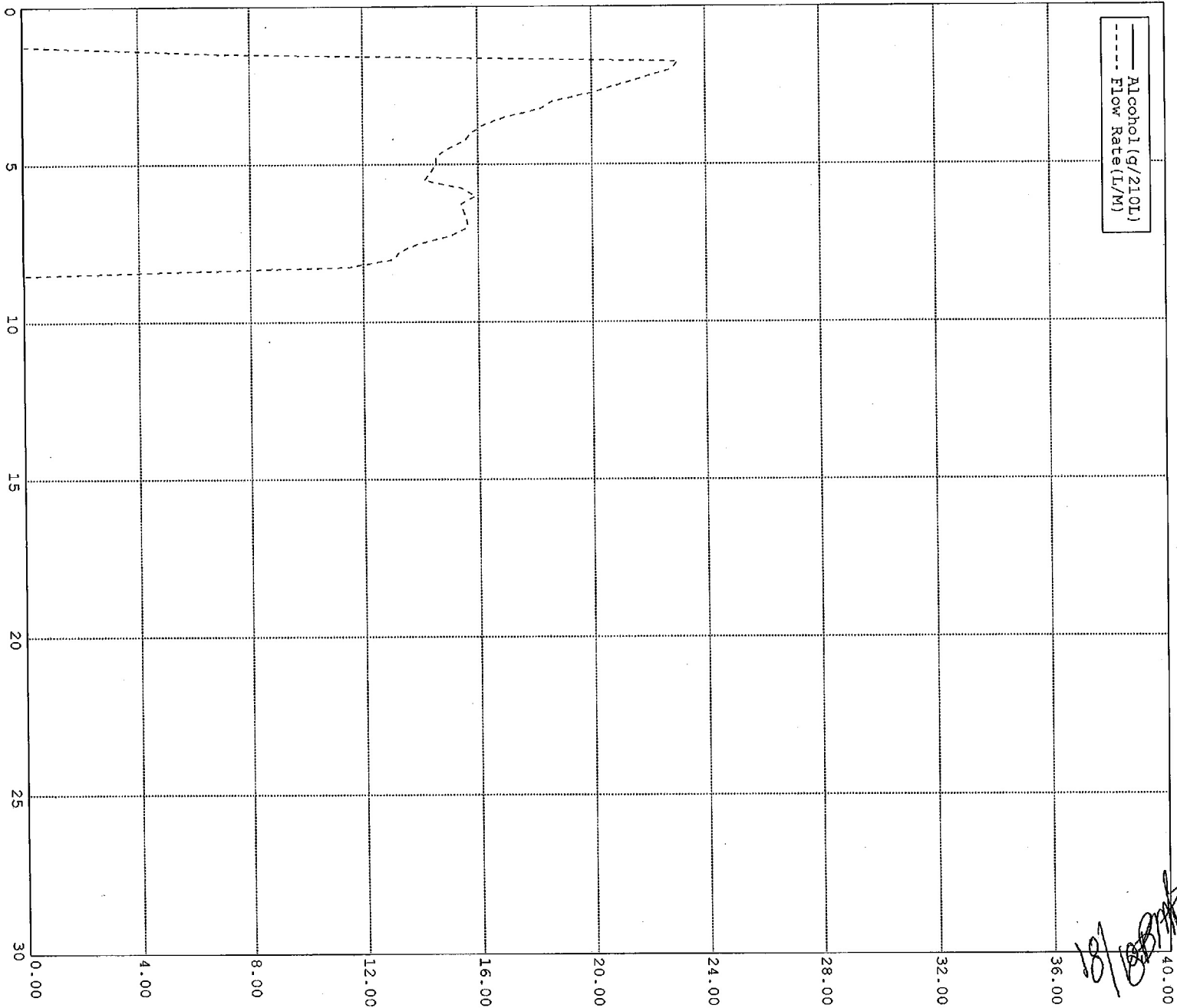
OPERATOR NAME:
BRANDI M BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.79: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	11:15
BLANK TEST	0.000	11:15
INTERNAL STANDARD	VERIFIED	11:15
EXTERNAL STANDARD	0.080	11:15
BLANK TEST	0.000	11:16
SUBJECT SAMPLE	0.000	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.080	11:17
BLANK TEST	0.000	11:18

Handwritten signature: BMB



Handwritten signature and date: BMB 5/3/11