

	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 # 100360Analyst Brandi BarnettDate 4/14/11

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 1500 mL ☒
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ☒
 - i. 0.020g/210L Mnf ILMO Lot 15210020A1 Exp 07/01/12
 - ii. 0.040g/210L Mnf ILMO Lot 15210040A2 Exp 07/01/12
 - iii. 0.080g/210L Mnf ILMO Lot 0251080A3 Exp 02/01/2013
 - iv. 0.100g/210L Mnf ILMO Lot 0561100A2 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 09340 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 08/04/2010 SN SD1202
 - d. RFI ☒
7. Calibrate Stylus ☒
8. Verify card reader is functional ☒
9. Upload ☒
10. Reset Options ☒
11. Non-Drinking Subject Test (attached)

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100360

Date: 04/14/2011
Time: 11:20:18

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 43.1°C	PASSED

PUMP INFO

Flow Rate = 5.161 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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2/10/11

Technician Screen

DATAMASTER dmt: 100360

Date: 04/14/2011
Time: 11:50 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 44.9°C

Current Barometer 29.8 in
Volume (Ltr) 1.58

Settings

Lamp: 2.01 V
Bias: 79 V
Cooler: 1.66 V
Chopper: 539 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.574 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100360

Date: 04/12/2011
Time: 13:43:41

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 11/25/2012

Ca = 0.1000
CAL = 0.977991 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0066 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.1225 0.0500 <= Xq < 0.2000
a21 = 1.220006 1.050 <= a21 < 1.300
a31 = 0.503914 0.300 <= a31 < 0.800

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SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100360

Date: 04/14/2011
 Time: 11:51:37

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

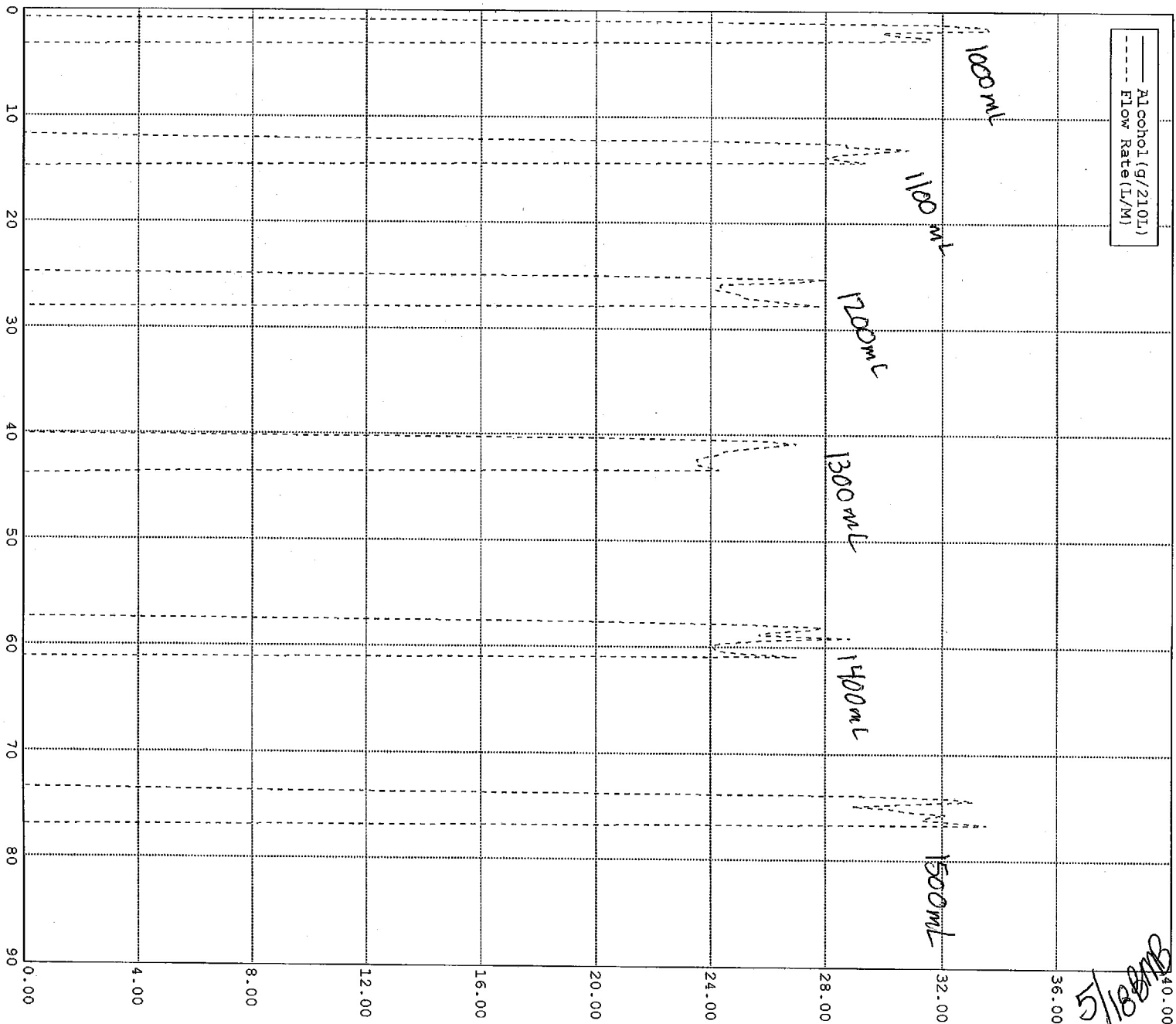
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.83: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	11:53
BLANK TEST	0.000	11:53
INTERNAL STANDARD	VERIFIED	11:53
EXTERNAL STANDARD	0.082	11:53
BLANK TEST	0.000	11:54
SUBJECT SAMPLE	0.000	11:56
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.082	11:57
BLANK TEST	0.000	11:58

BM B



5/18/2011

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100360

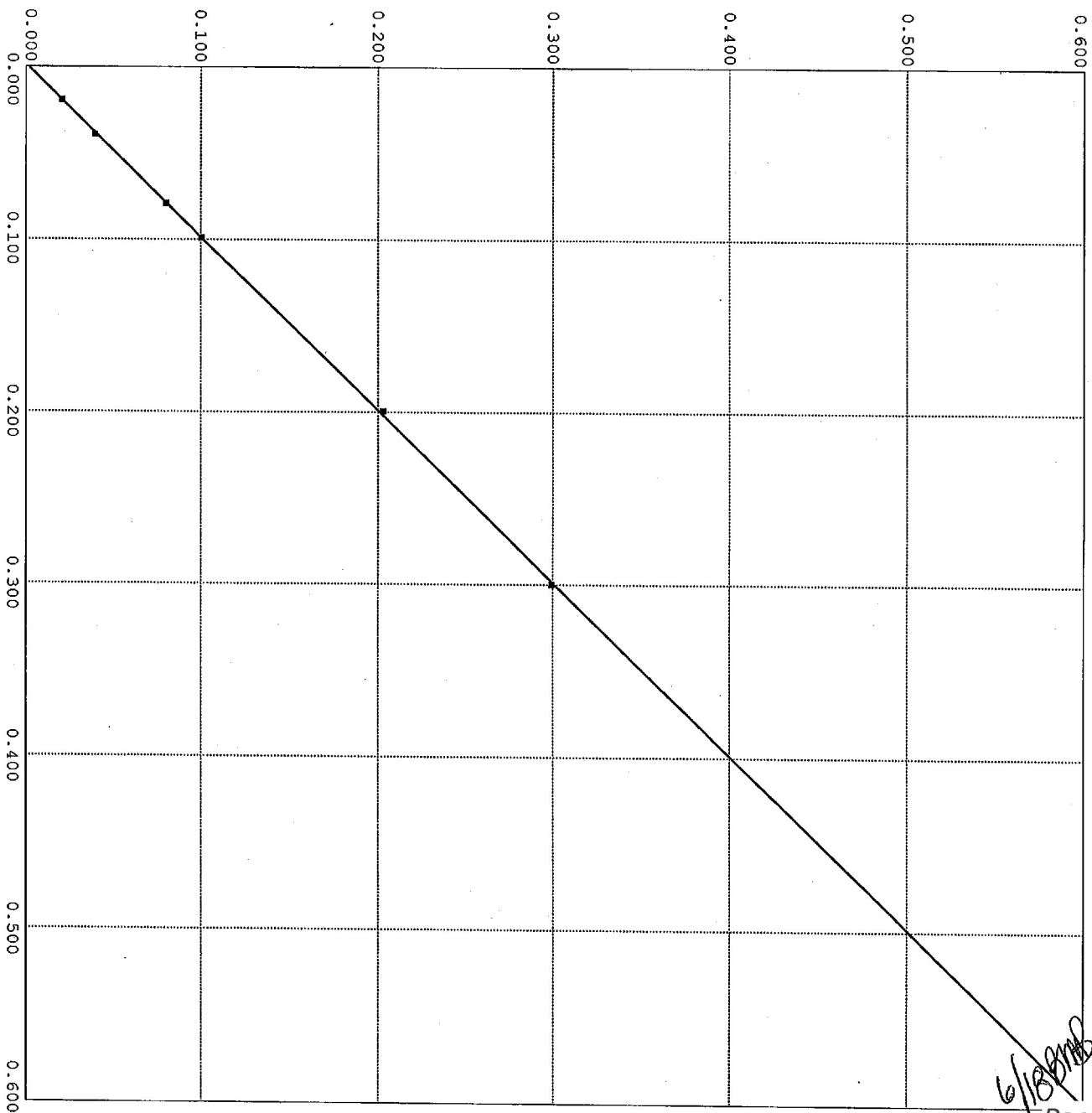
Date: 04/14/2011
Time: 12:05:36

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0210	0.0007
0.039	0.0398	0.0004
0.079	0.0808	0.0008
0.099	0.1012	0.0004
0.199	0.2038	0.0004
0.299	0.2998	0.0008

SLOPE = 1.001867
 R^2 = 0.999908

BRMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100360

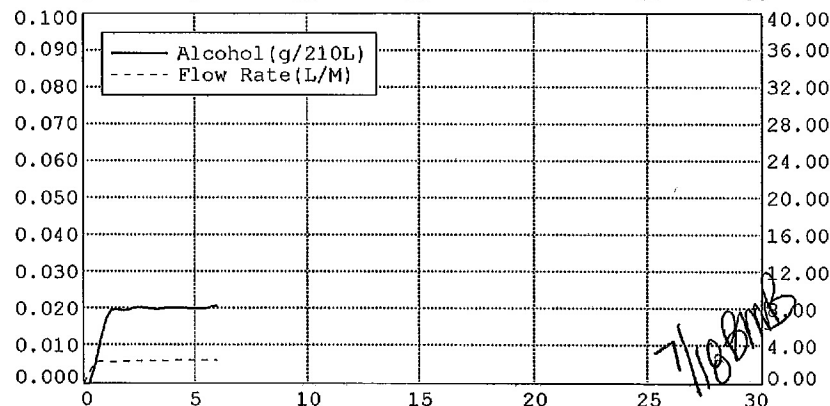
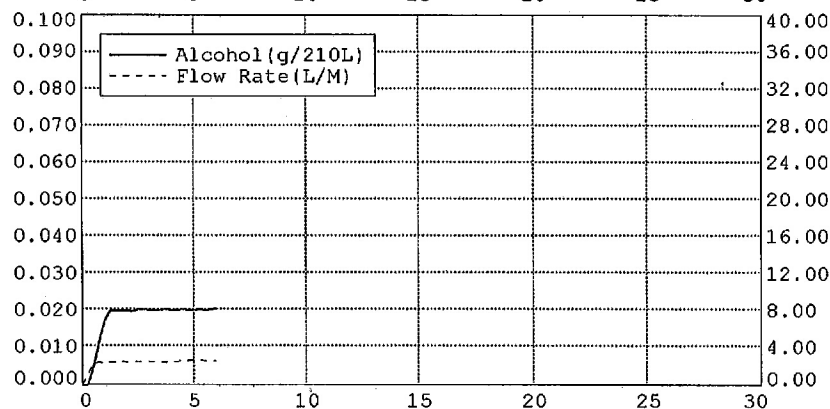
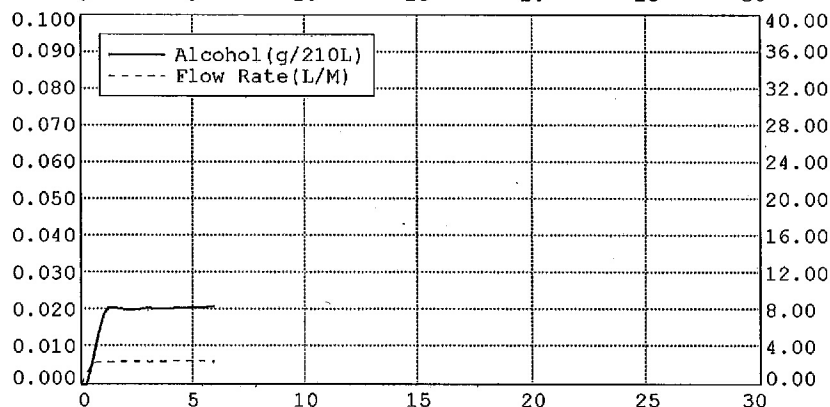
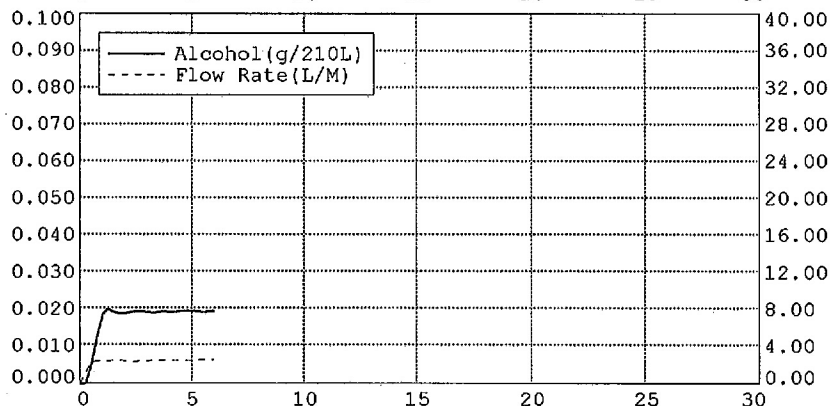
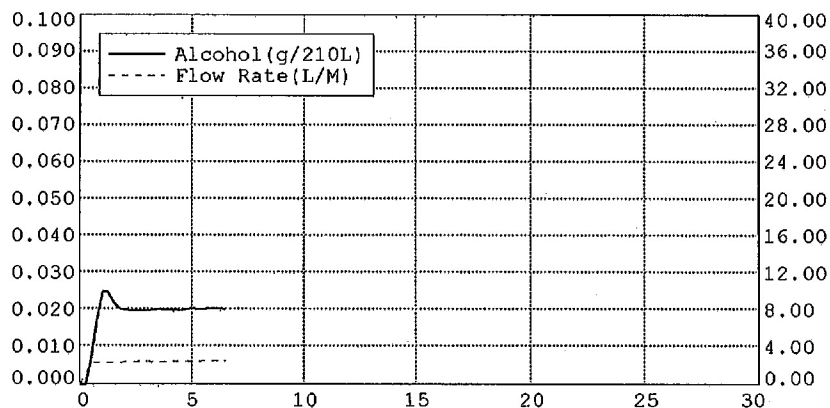
Date: 04/14/2011
Time: 12:05:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.84: 0.019
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	12:06
INTERNAL STANDARD	VERIFIED	12:06
EXTERNAL STANDARD	0.021	12:07
BLANK TEST	0.000	12:08
EXTERNAL STANDARD	0.020	12:08
BLANK TEST	0.000	12:09
EXTERNAL STANDARD	0.022	12:09
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.021	12:10
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.021	12:11
BLANK TEST	0.000	12:12

Average = 0.0210
Std Dev = 0.0007



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt; 100360

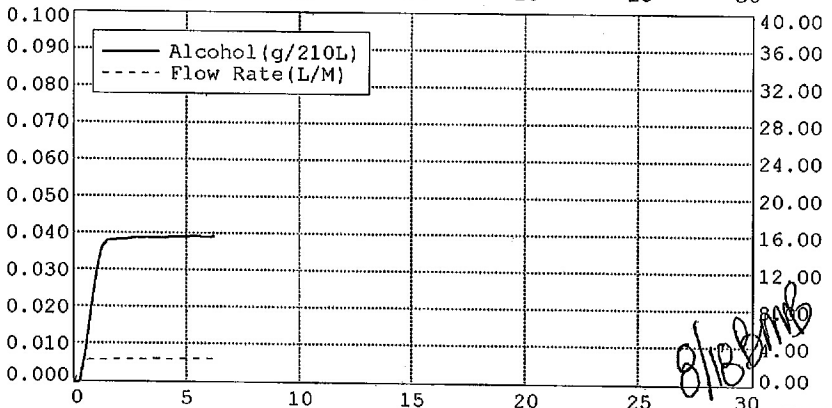
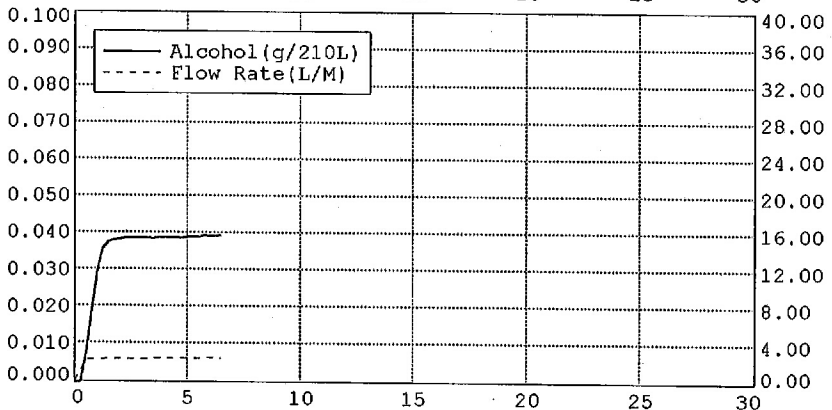
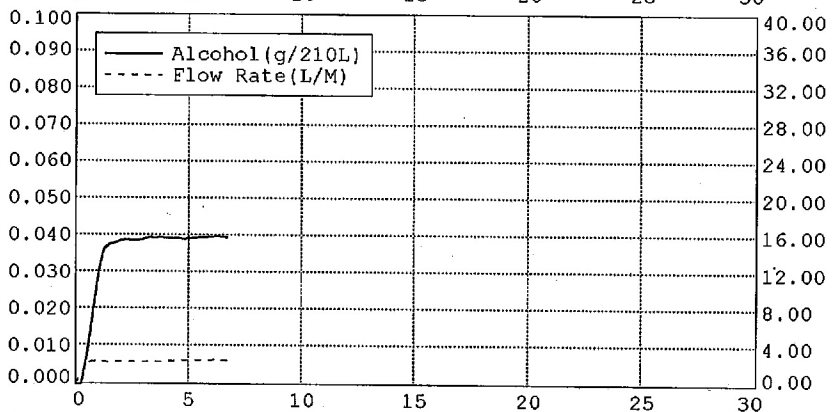
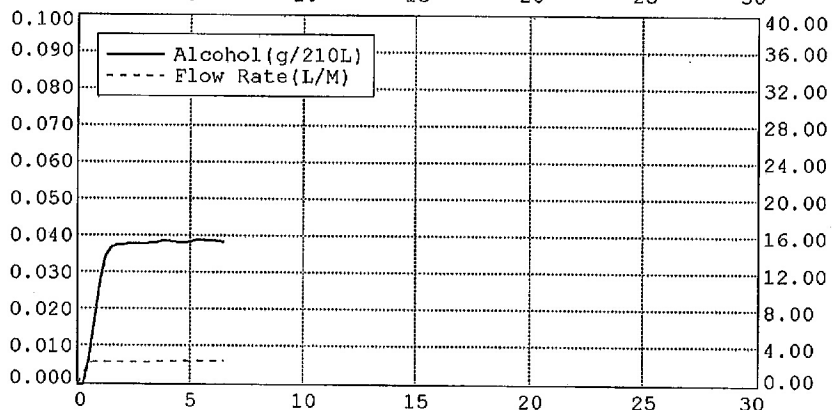
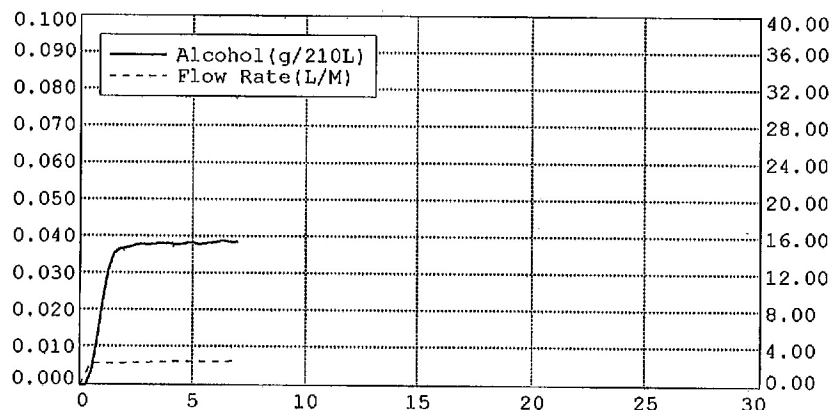
Date: 04/14/2011
Time: 12:17:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.84: 0.039
LOT #: 15210040A2
EXPIRATION: 07/01/2012

BLANK TEST	0.000	12:18
INTERNAL STANDARD	VERIFIED	12:18
EXTERNAL STANDARD	0.039	12:18
BLANK TEST	0.000	12:19
EXTERNAL STANDARD	0.040	12:19
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.040	12:20
BLANK TEST	0.000	12:21
EXTERNAL STANDARD	0.040	12:22
BLANK TEST	0.000	12:22
EXTERNAL STANDARD	0.040	12:23
BLANK TEST	0.000	12:24

Average = 0.0398
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

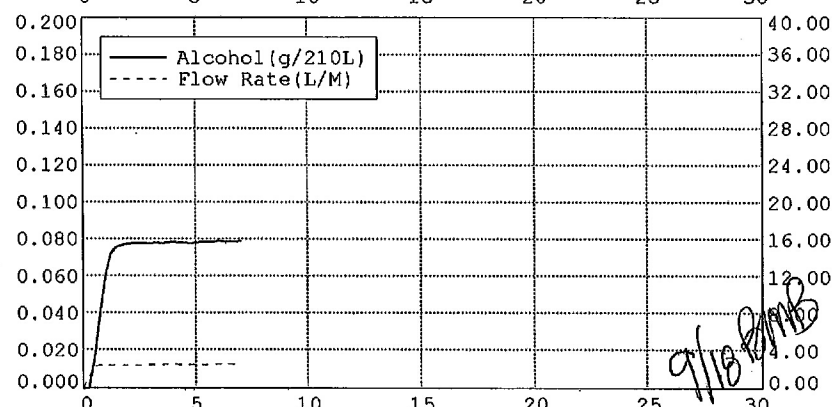
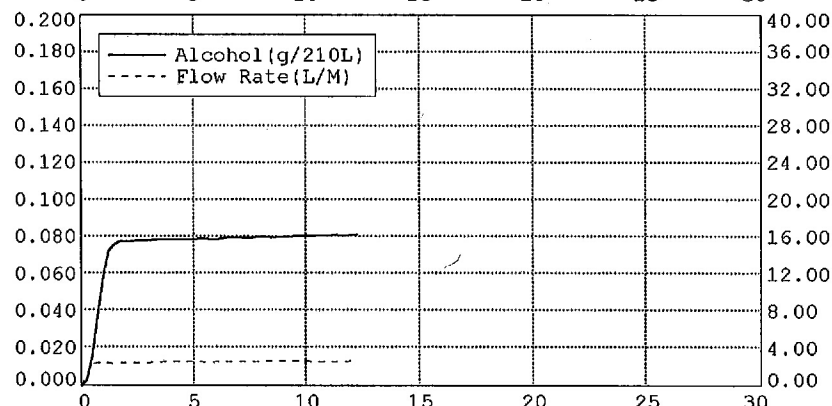
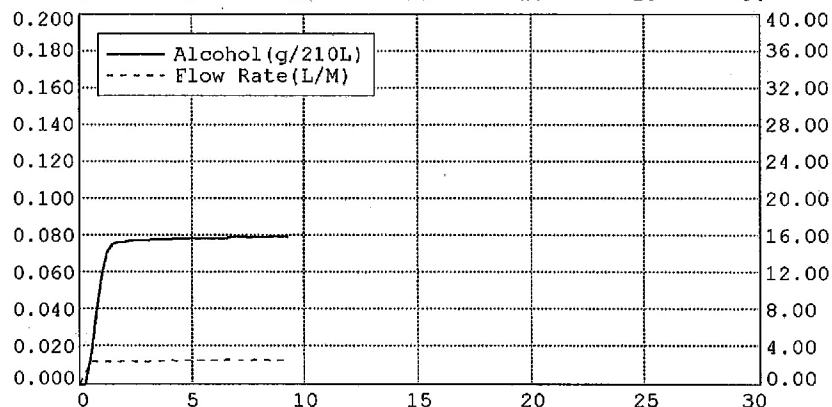
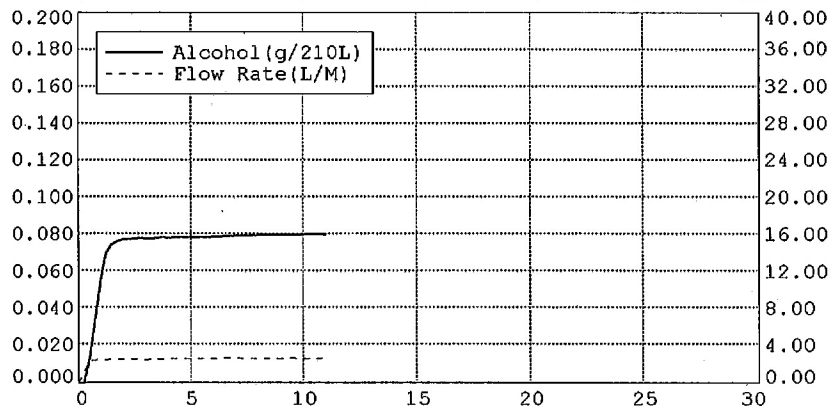
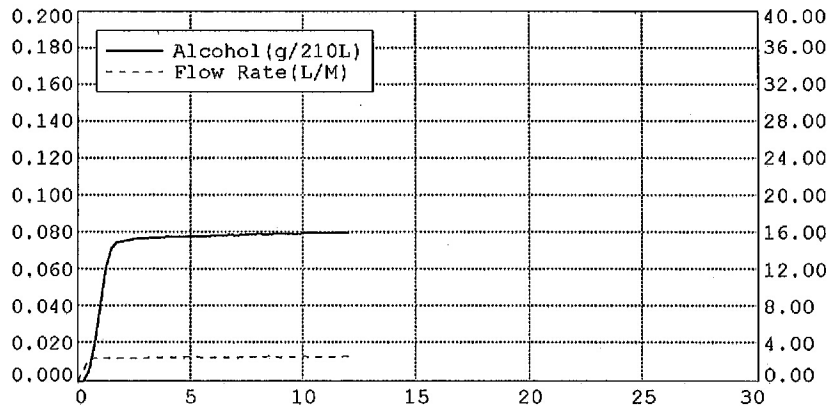
Alaska Department of Public Safety
DATAMASTER dmt: 100360

Date: 04/14/2011
Time: 12:31:06

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.84: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:32
INTERNAL STANDARD	VERIFIED	12:32
EXTERNAL STANDARD	0.080	12:32
BLANK TEST	0.000	12:33
EXTERNAL STANDARD	0.081	12:33
BLANK TEST	0.000	12:34
EXTERNAL STANDARD	0.081	12:35
BLANK TEST	0.000	12:35
EXTERNAL STANDARD	0.082	12:36
BLANK TEST	0.000	12:37
EXTERNAL STANDARD	0.080	12:37
BLANK TEST	0.000	12:38

Average = 0.0808
Std Dev = 0.0008



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100360

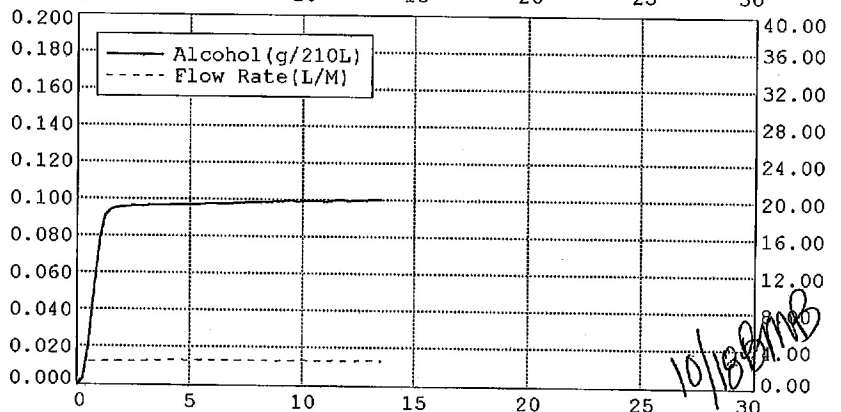
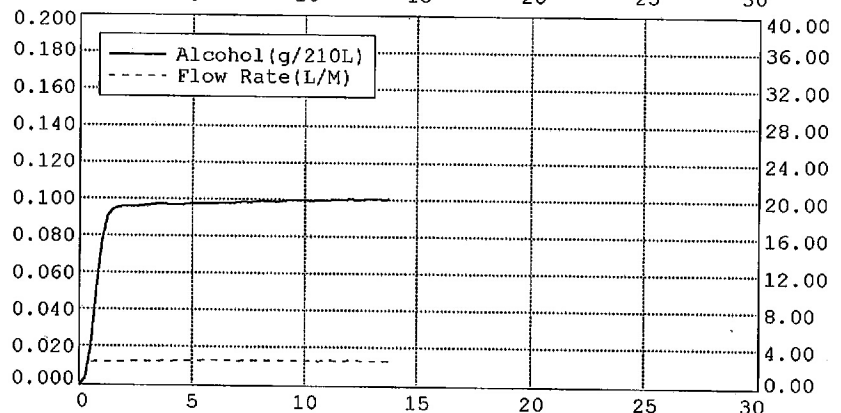
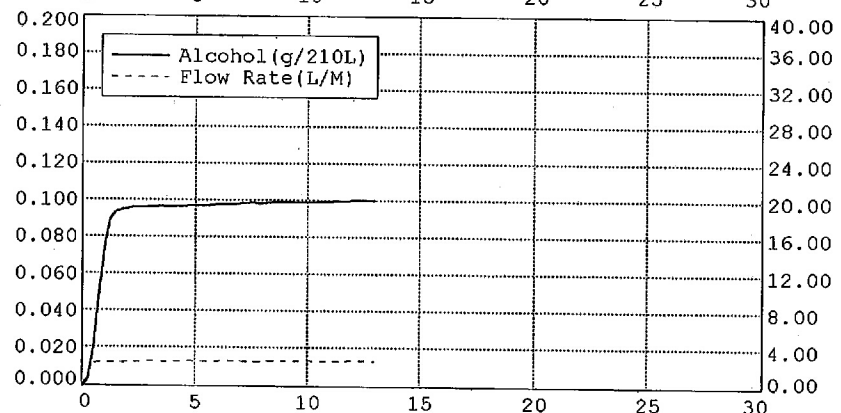
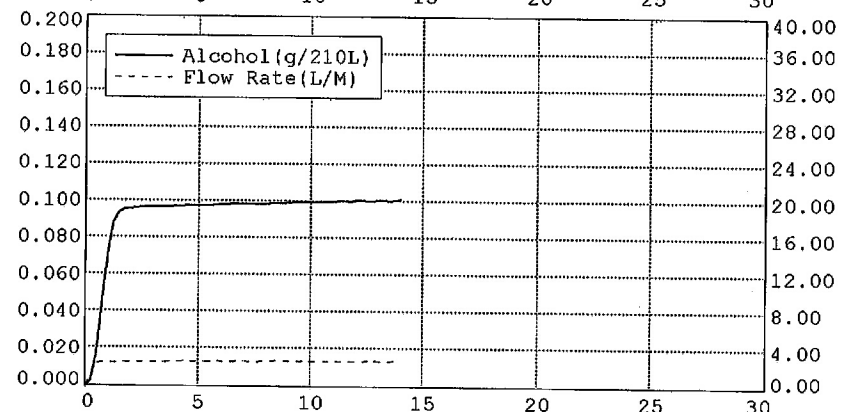
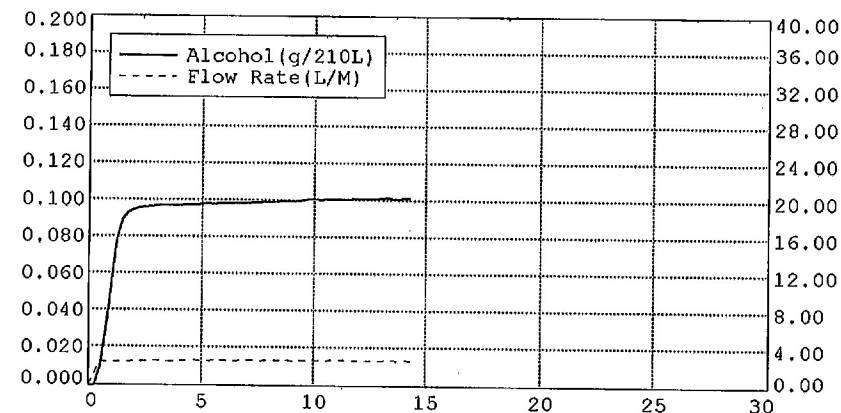
Date: 04/14/2011
Time: 12:59:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.85: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:01
INTERNAL STANDARD	VERIFIED	13:01
EXTERNAL STANDARD	0.102	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.101	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.101	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.101	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.101	13:06
BLANK TEST	0.000	13:07

Average = 0.1012
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100360

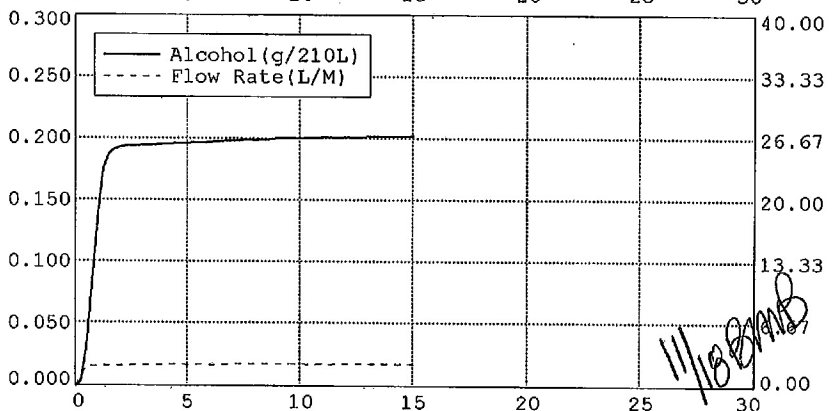
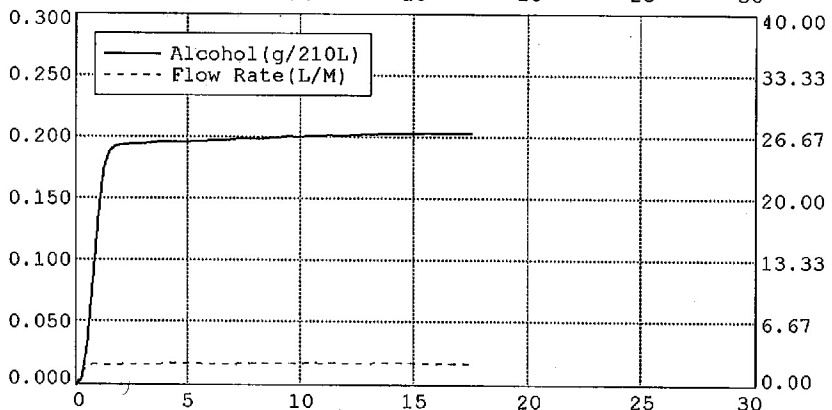
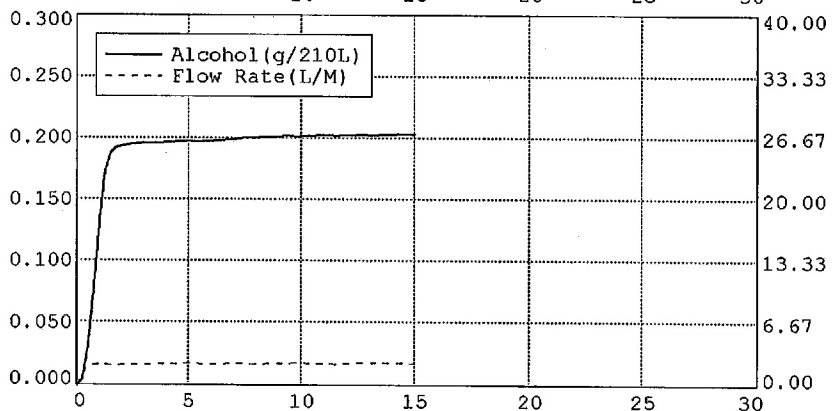
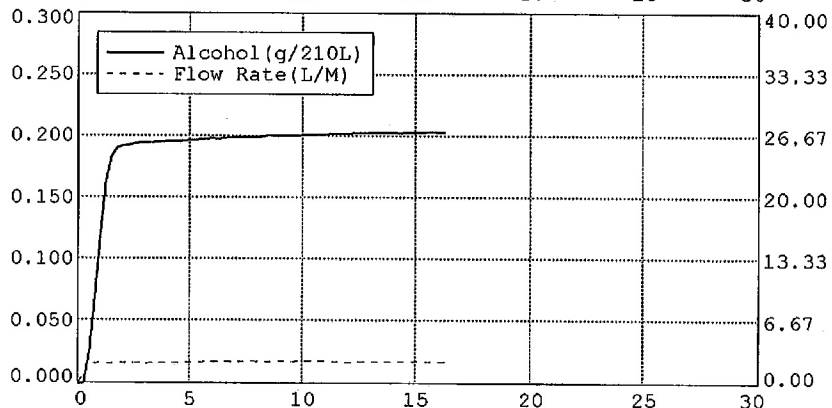
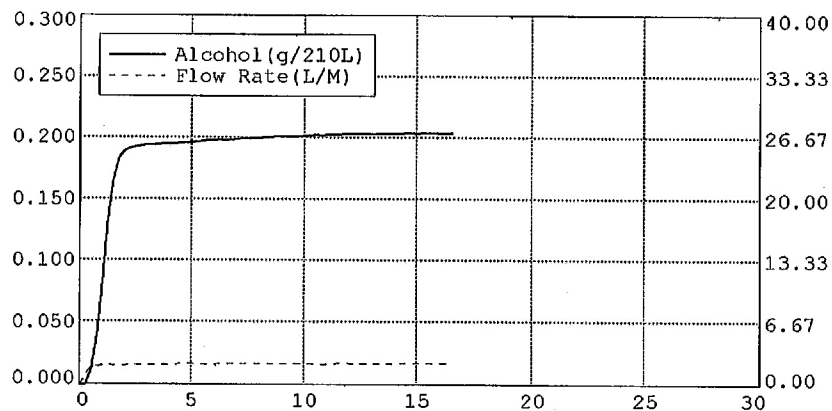
Date: 04/14/2011
Time: 13:09:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.85: 0.199
LOT #: 07411200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:11
INTERNAL STANDARD	VERIFIED	13:11
EXTERNAL STANDARD	0.204	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.204	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.204	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.204	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.203	13:17
BLANK TEST	0.000	13:18

Average = 0.2038
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100360

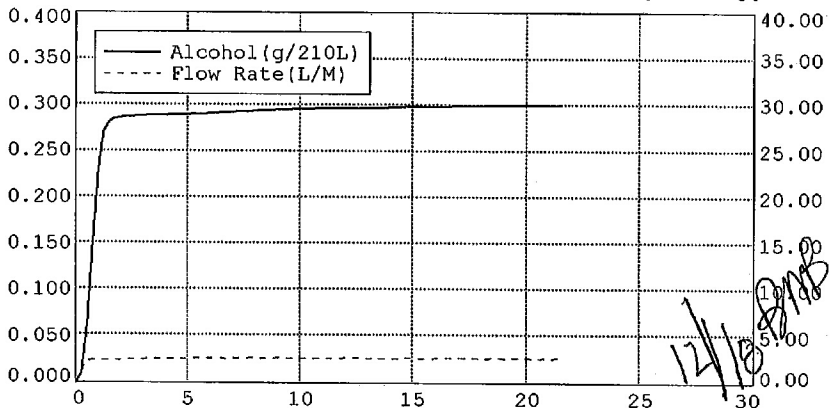
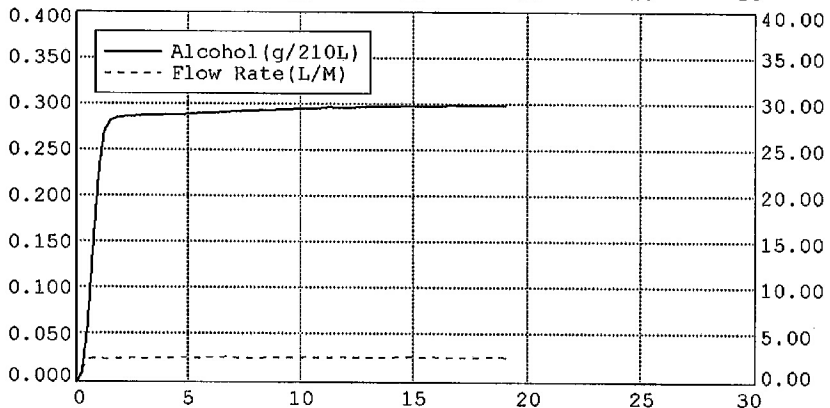
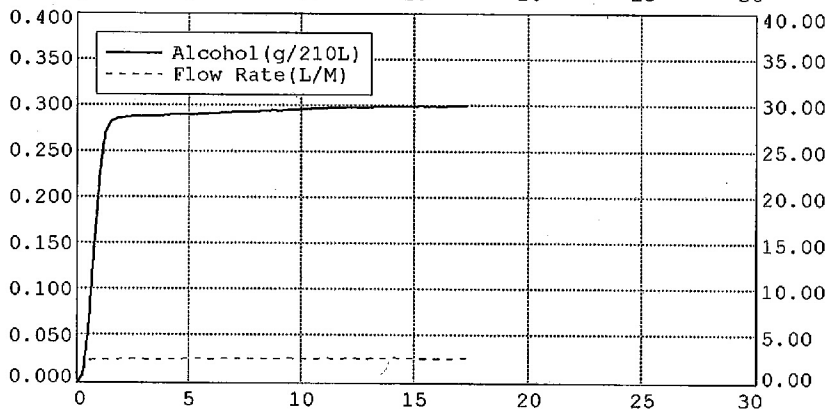
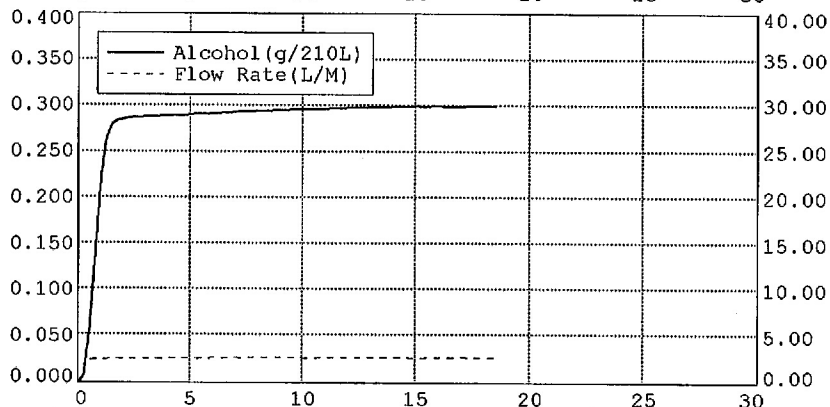
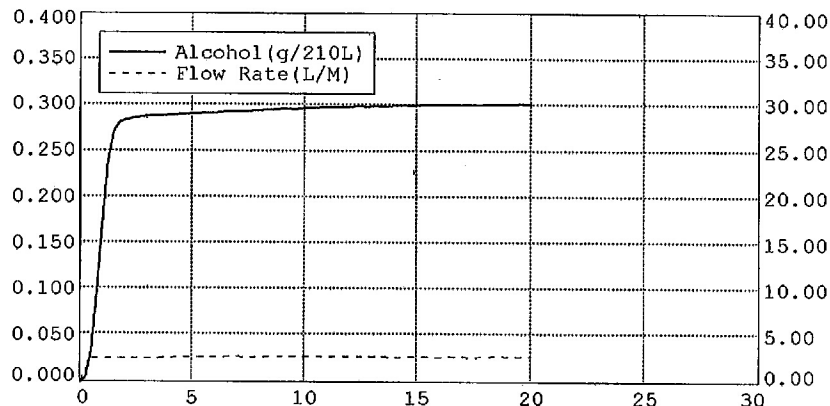
Date: 04/14/2011
Time: 13:20:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.85: 0.299
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
EXTERNAL STANDARD	0.301	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.299	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.300	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.299	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.300	13:27
BLANK TEST	0.000	13:28

Average = 0.2998
Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100360

Date: 04/14/2011
Time: 13:38:09

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

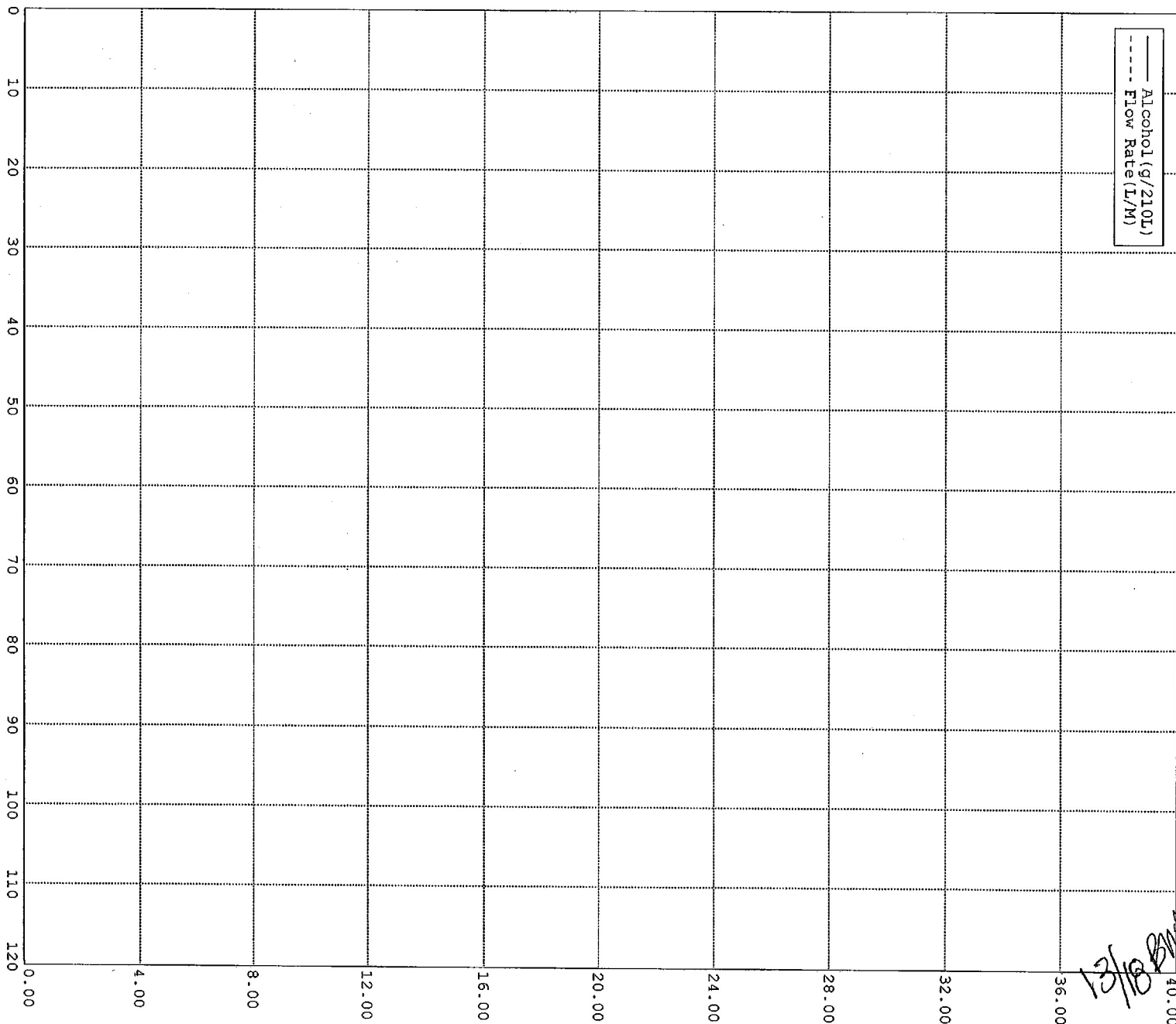
OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:39
BLANK TEST	0.000	13:39
INTERNAL STANDARD	VERIFIED	13:39
EXTERNAL STANDARD	0.082	13:39
BLANK TEST	0.000	13:40
SUBJECT SAMPLE	INCOMPLETE	13:42

Brandi Barnett



13/18 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100360

Date: 04/14/2011
Time: 13:47:59

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

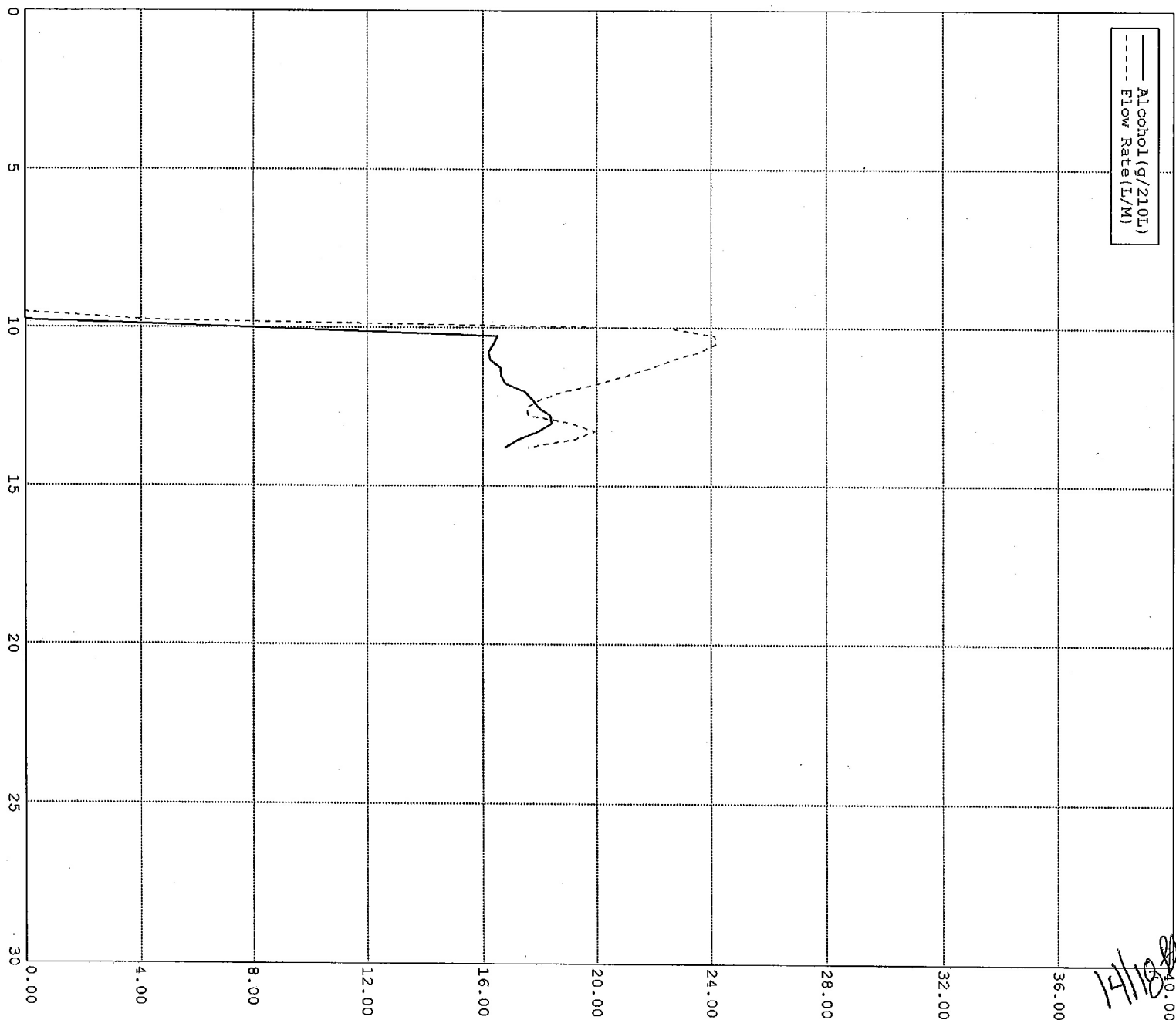
OPERATOR NAME:
XXXX XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:49
BLANK TEST	0.000	13:49
INTERNAL STANDARD	VERIFIED	13:49
EXTERNAL STANDARD	0.080	13:50
BLANK TEST	0.000	13:51
SUBJECT SAMPLE	Invalid	13:51

Alcohol (g/210L)
Flow Rate (L/M)

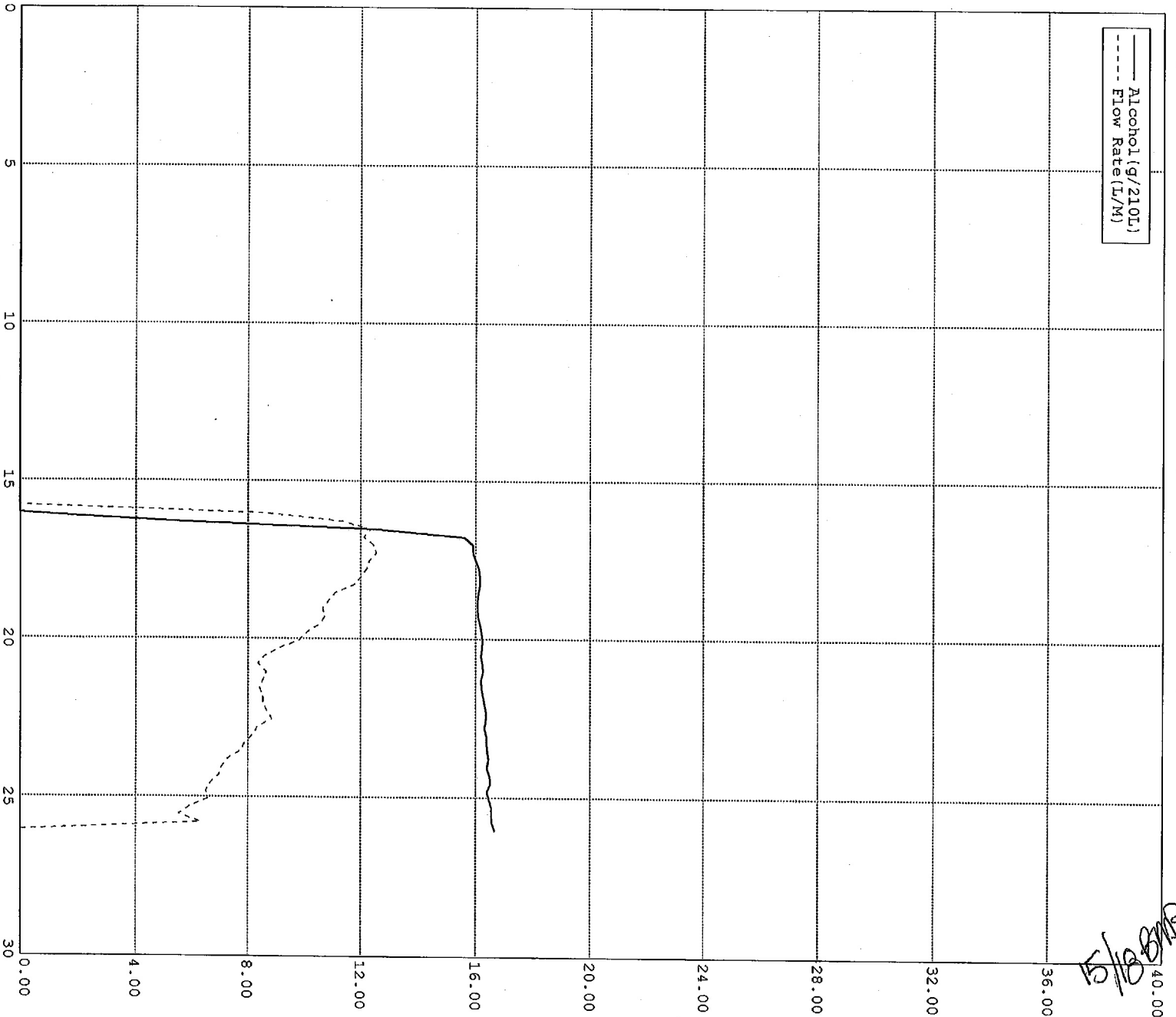


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100360Date: 04/14/2011
Time: 14:12:10SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
ETHANOL AND ACETONE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:13
BLANK TEST	0.000	14:13
INTERNAL STANDARD	VERIFIED	14:13
EXTERNAL STANDARD	0.082	14:13
BLANK TEST	0.000	14:14
SUBJECT SAMPLE	INTERFERENCE	14:15

BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100360

Date: 04/14/2011
 Time: 14:05:30

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

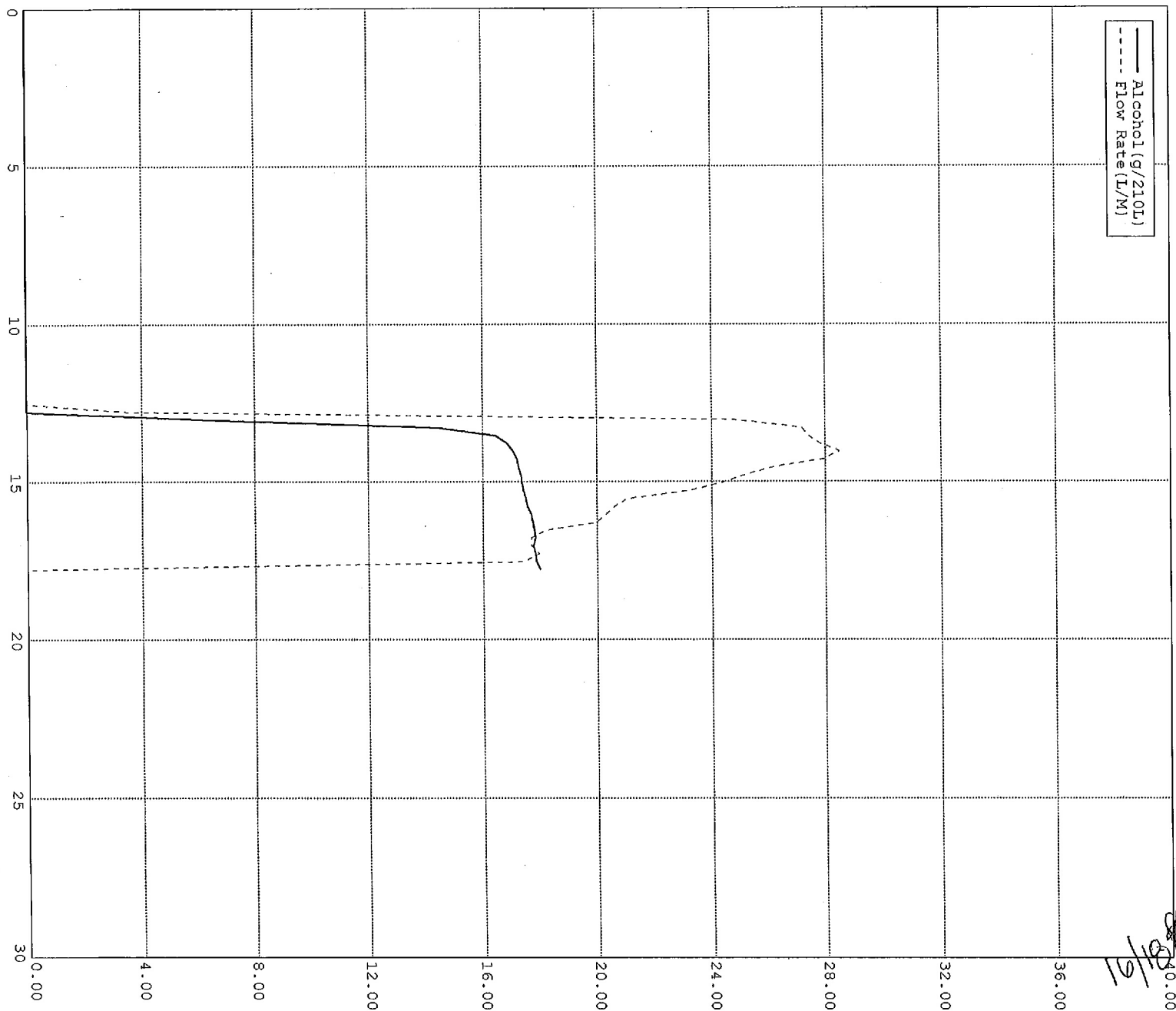
OPERATOR NAME:
 ETHANOL AND ISOPROPANOL
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.85: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:06
BLANK TEST	0.000	14:06
INTERNAL STANDARD	VERIFIED	14:07
EXTERNAL STANDARD	0.082	14:07
BLANK TEST	0.000	14:08
SUBJECT SAMPLE	INTERFERENCE	14:08

Handwritten signature/initials



Handwritten signature/initials

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100360

Date: 04/14/2011
Time: 13:53:50

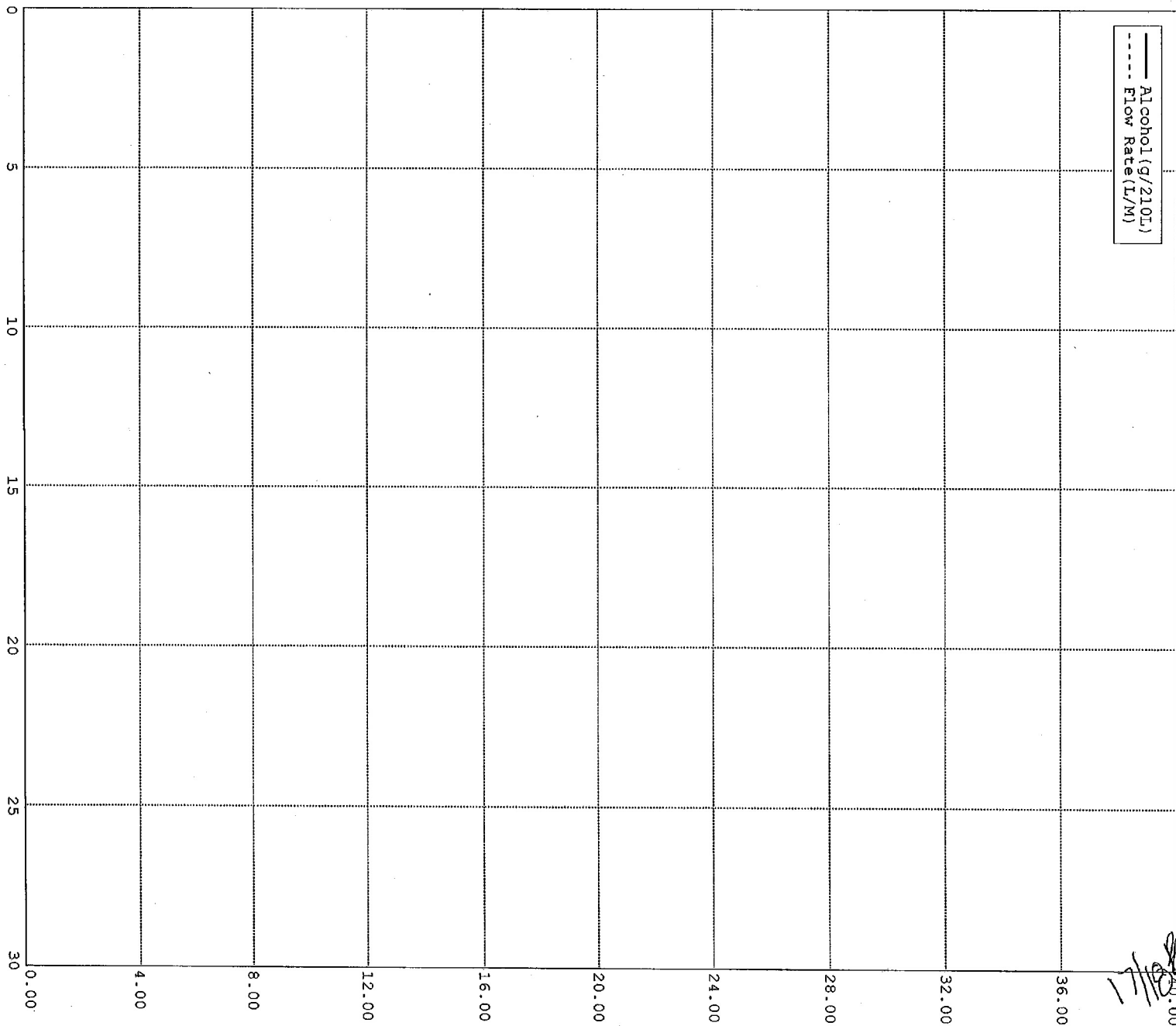
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
RADIO INTERFERE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK
BLANK TEST PASSED 13:55
INTERNAL STANDARD VERIFIED 13:55
EXTERNAL STANDARD 0.081 13:55
BLANK TEST 0.000 13:56
RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100360

Date: 04/14/2011
 Time: 14:31:11

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 29.85: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:34
BLANK TEST	0.000	14:34
INTERNAL STANDARD	VERIFIED	14:34
EXTERNAL STANDARD	0.081	14:35
BLANK TEST	0.000	14:36
SUBJECT SAMPLE	0.000	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.081	14:37
BLANK TEST	0.000	14:38

8MB

