

	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 FormInstrument # 100350Analyst Brandi BarnettDate 6/23/11

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 1600mL 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 02811200A3 Exp 02/01/2013
 - 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 Repro Lot 09805 Level 0.080 Exp 11/4/11
 1. Simulator Calibration Date 10/18/2010 SN DR6267
- ii. Isopropanol - Mnf Repro Lot 09805 Level 0.080 Exp 11/4/11
 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: 100350

Date: 06/23/2011
Time: 08:59:19

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 46.4°C	PASSED

PUMP INFO

Flow Rate = 5.146 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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2/18/11 MB

Technician Screen

DATAMASTER dmt: 100350

Date: 06/23/2011

Time: 9:04 AM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 45.9°C

Current Barometer 29.9 in

Volume (Ltr) 1.53

Settings

Lamp: 1.83 V

Bias: 79 V

Cooler: 1.71 V

Chopper: 550 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.262 V

3/18 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100350

Date: 01/10/2011
Time: 16:26:03

Ca = 0.1000
CAL = 0.986277 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0022 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.1003 0.0500 <= Xq < 0.2000
a21 = 1.145944 1.050 <= a21 < 1.300
a31 = 0.463631 0.300 <= a31 < 0.800

4/10 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100350

Date: 06/23/2011
 Time: 09:06:15

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

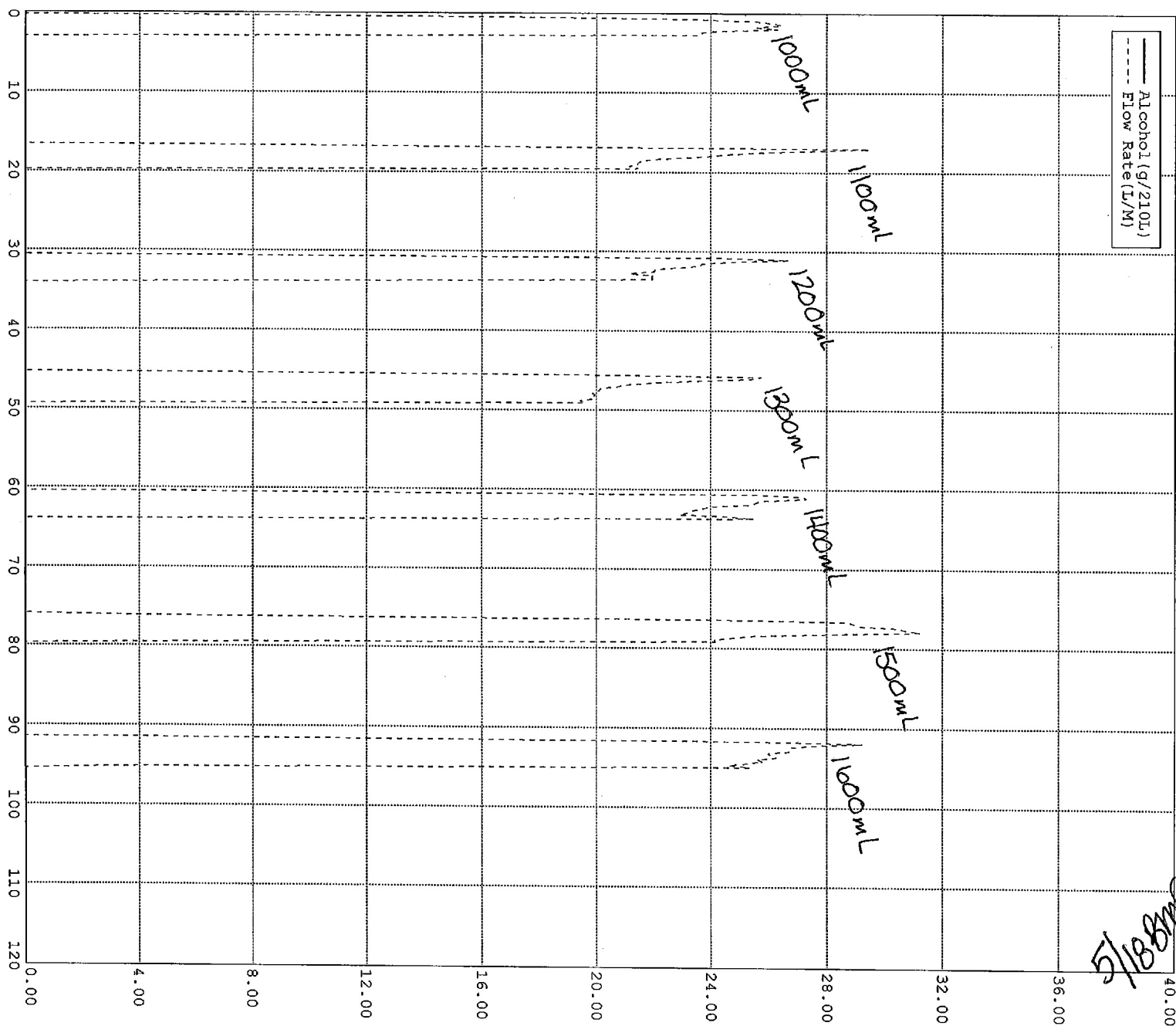
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.89: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:07
BLANK TEST	0.000	09:07
INTERNAL STANDARD	0.082	09:07
EXTERNAL STANDARD	0.000	09:09
BLANK TEST	0.000	09:10
SUBJECT SAMPLE	0.000	09:11
BLANK TEST	0.080	09:11
EXTERNAL STANDARD	0.000	09:12

BMB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100350

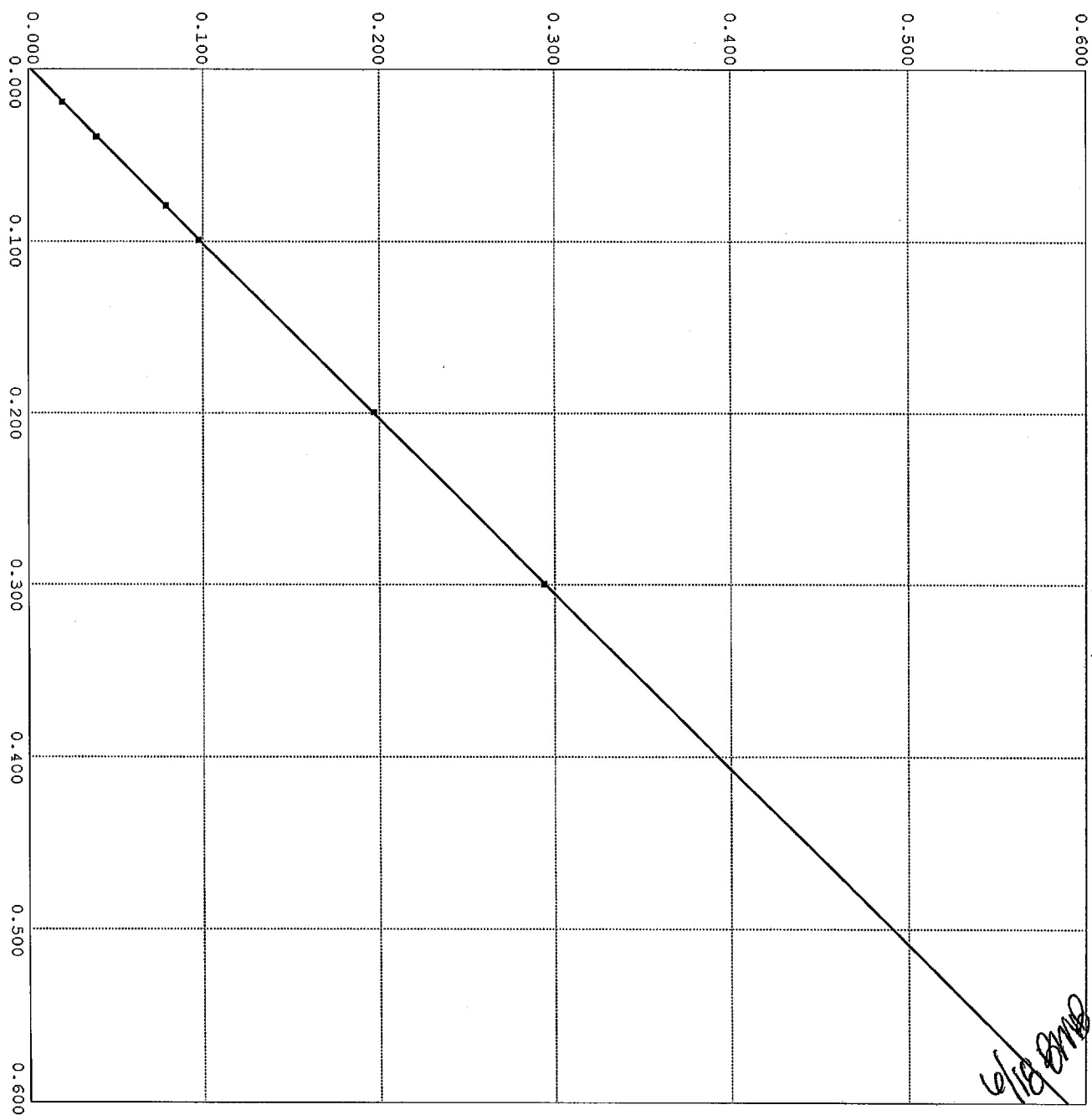
Date: 06/23/2011
 Time: 09:22:48

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.039	0.0396	0.0005
0.079	0.0796	0.0005
0.099	0.0984	0.0005
0.199	0.1978	0.0008
0.299	0.2944	0.0017

SLOPE = 0.981272
 R^2 = 0.999985

BM B



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100350

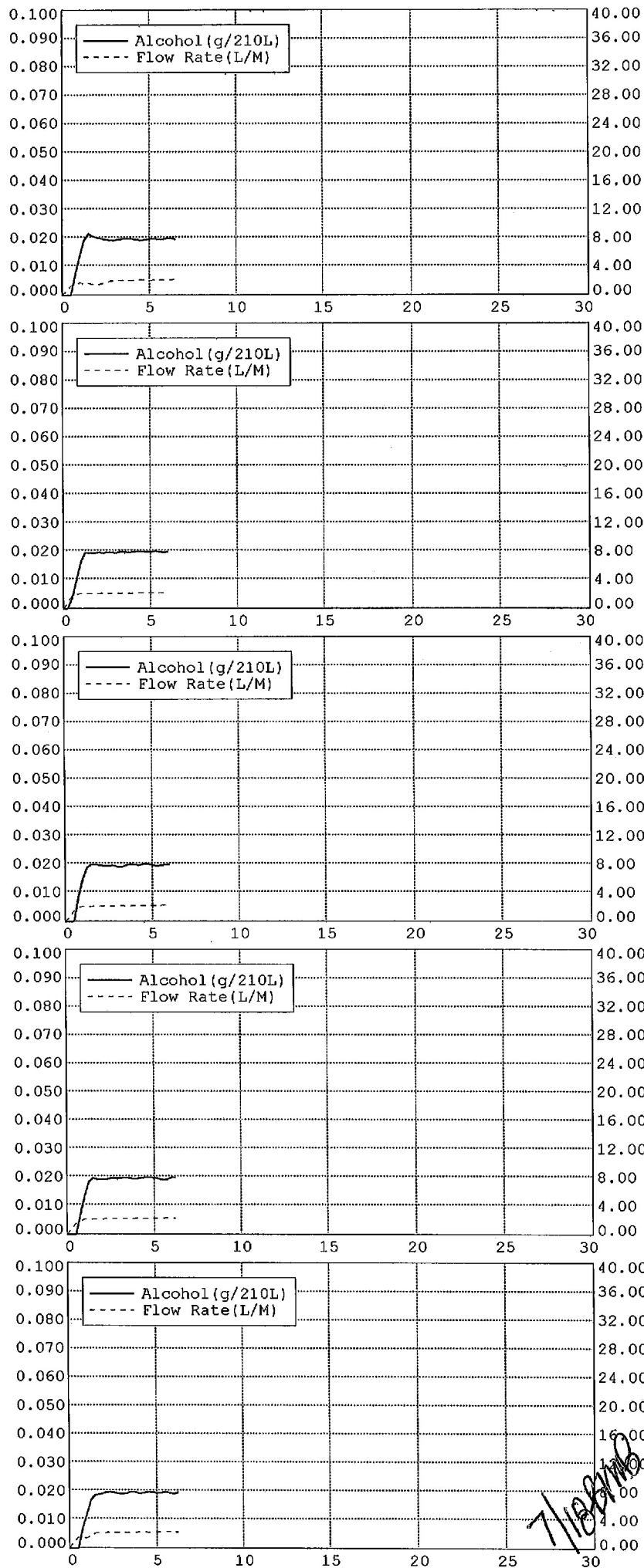
Date: 06/23/2011
Time: 09:22:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.89: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	09:23
INTERNAL STANDARD	VERIFIED	09:24
EXTERNAL STANDARD	0.020	09:24
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.020	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.020	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.020	09:27
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.020	09:28
BLANK TEST	0.000	09:29

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100350

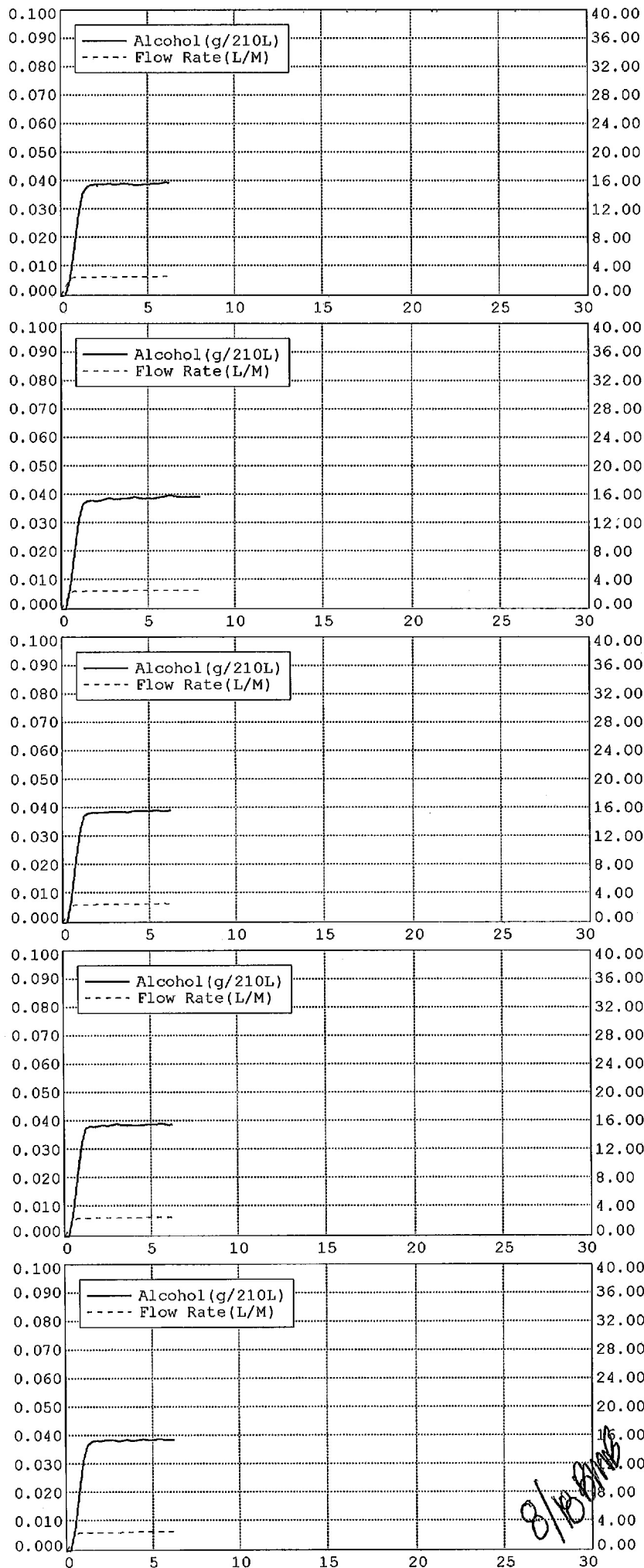
Date: 06/23/2011
Time: 09:31:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.89: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	09:33
INTERNAL STANDARD	VERIFIED	09:33
EXTERNAL STANDARD	0.040	09:33
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.040	09:34
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.040	09:36
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.039	09:37
BLANK TEST	0.000	09:38
EXTERNAL STANDARD	0.039	09:38
BLANK TEST	0.000	09:39

Average = 0.0396
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100350

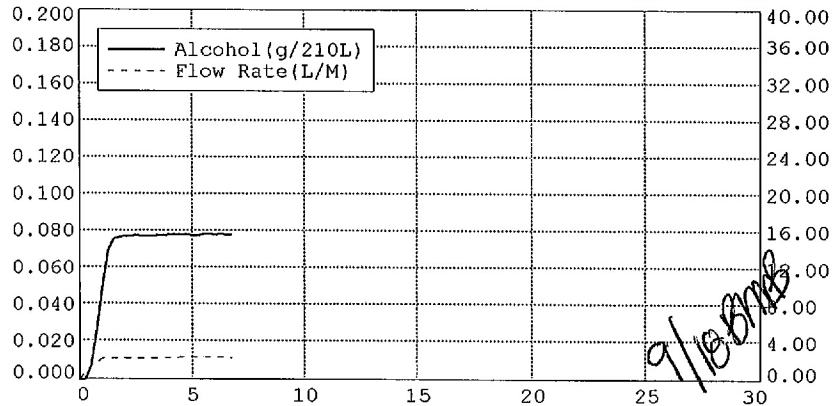
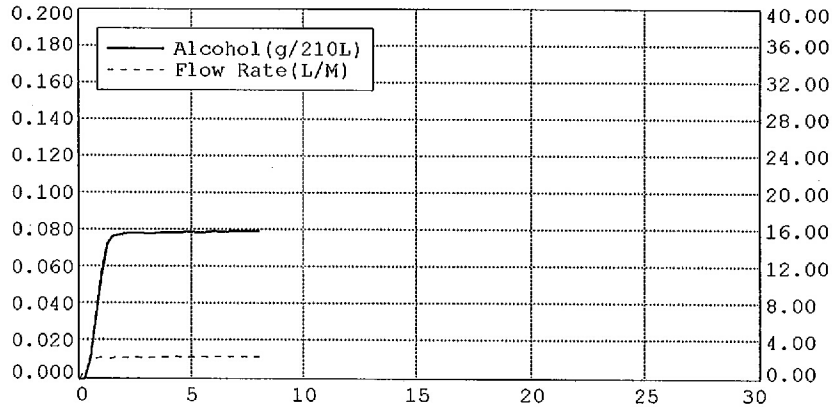
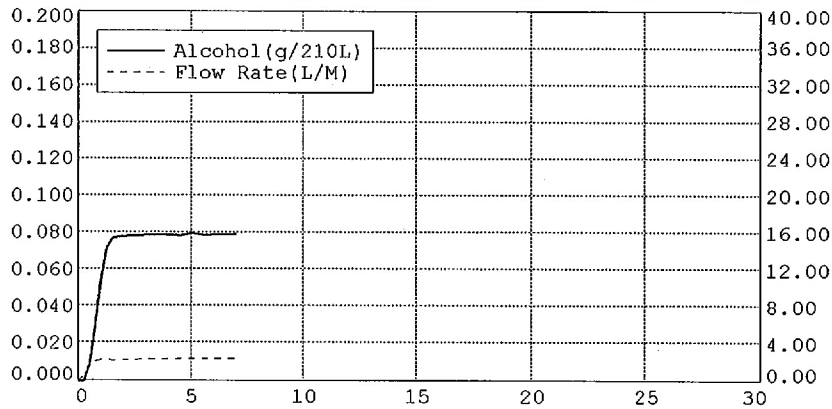
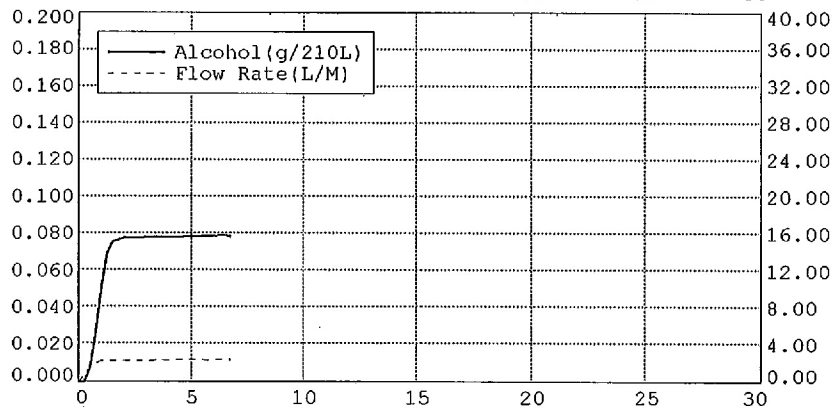
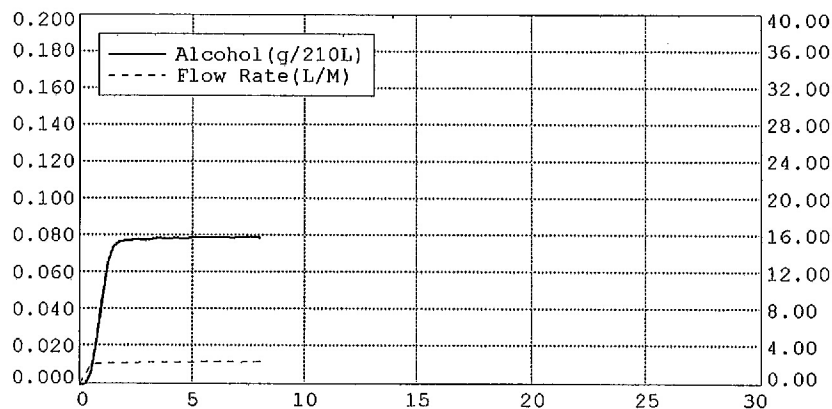
Date: 06/23/2011
Time: 09:42:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.89: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

BLANK TEST	0.000	09:43
INTERNAL STANDARD	VERIFIED	09:43
EXTERNAL STANDARD	0.080	09:43
BLANK TEST	0.000	09:44
EXTERNAL STANDARD	0.079	09:44
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.080	09:45
BLANK TEST	0.000	09:46
EXTERNAL STANDARD	0.080	09:47
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.079	09:48
BLANK TEST	0.000	09:49

Average = 0.0796
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100350

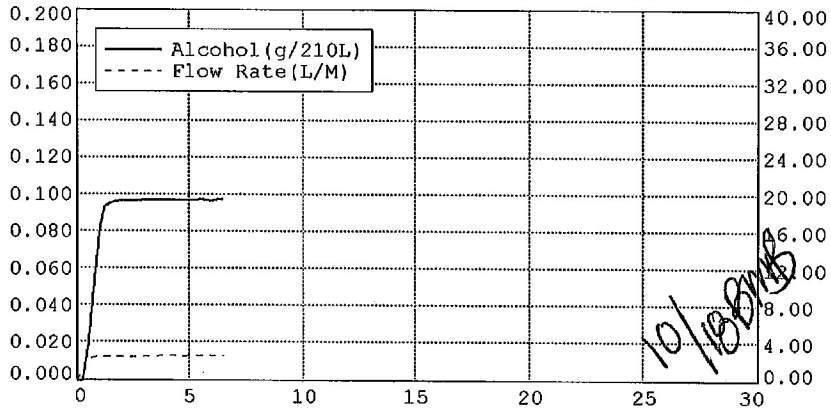
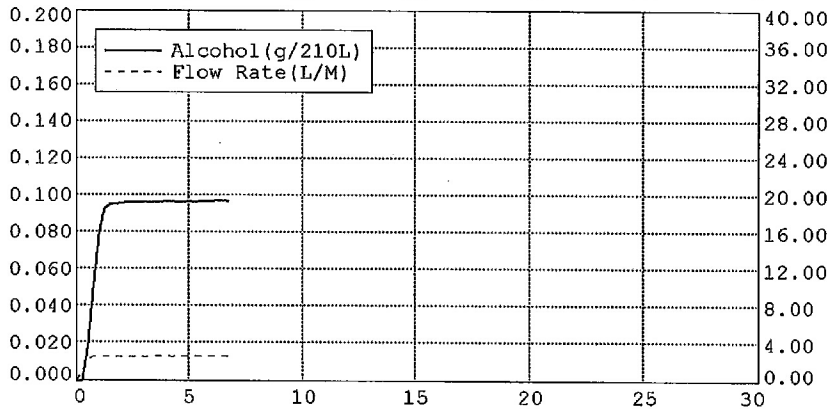
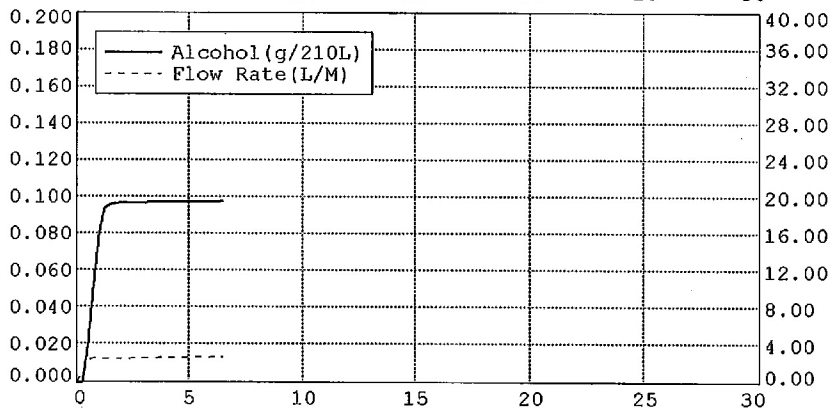
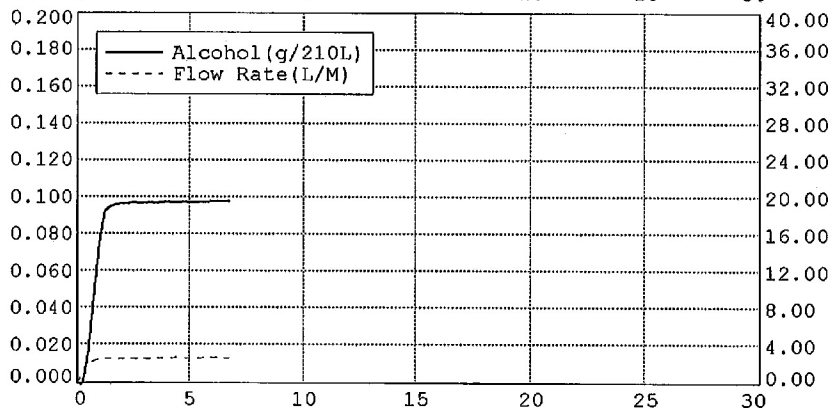
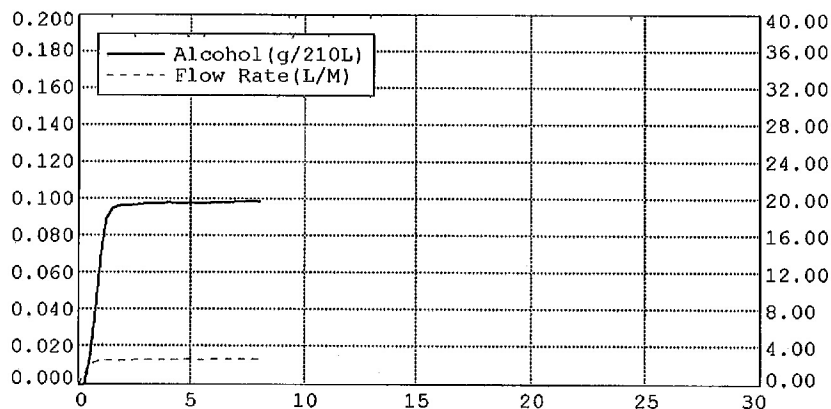
Date: 06/23/2011
Time: 09:50:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.89: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:52
INTERNAL STANDARD	VERIFIED	09:52
EXTERNAL STANDARD	0.099	09:52
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.098	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.099	09:55
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.098	09:56
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.098	09:57
BLANK TEST	0.000	09:58

Average = 0.0984
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100350

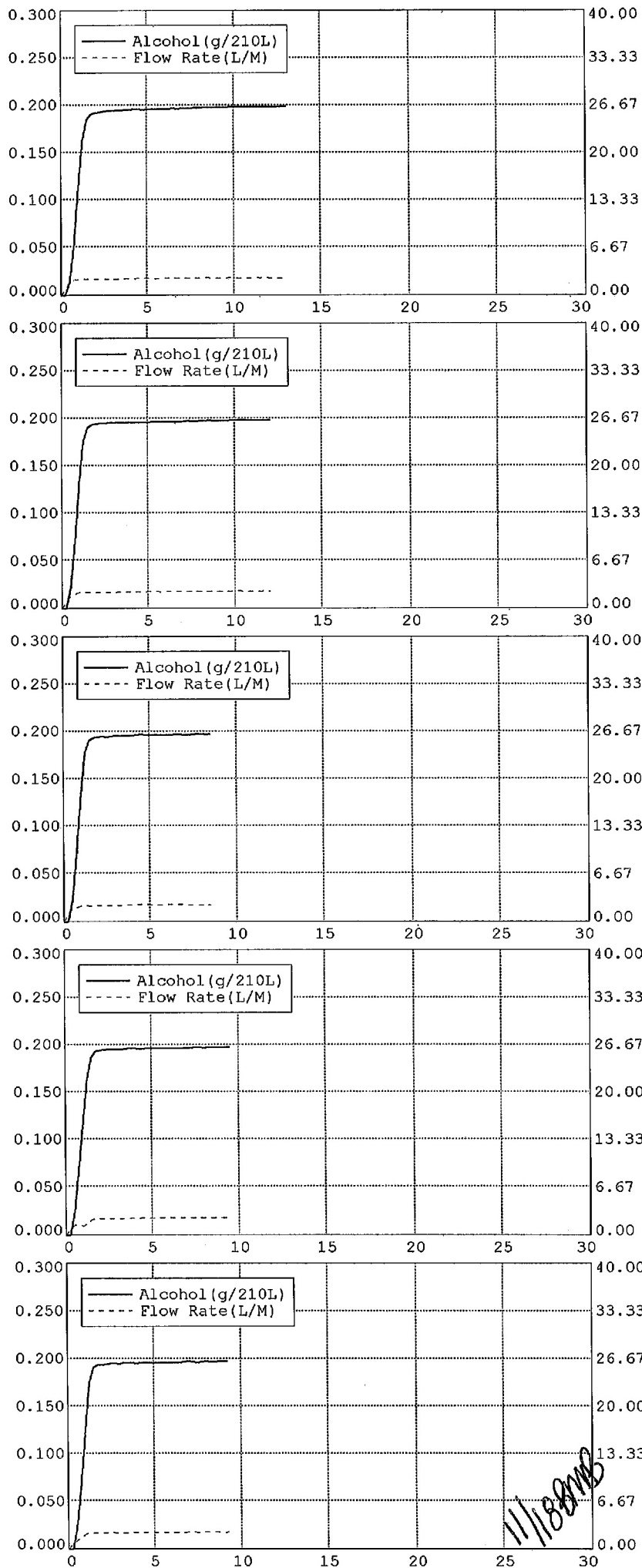
Date: 06/23/2011
Time: 09:59:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.89: 0.199
LOT #: 02811200A3
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:00
INTERNAL STANDARD	VERIFIED	10:00
EXTERNAL STANDARD	0.199	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.198	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.197	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.198	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.197	10:06
BLANK TEST	0.000	10:07

Average = 0.1978
Std Dev = 0.0008



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100350

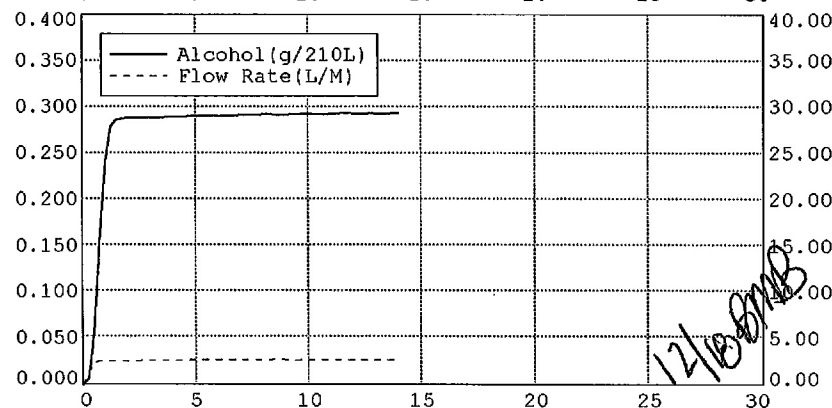
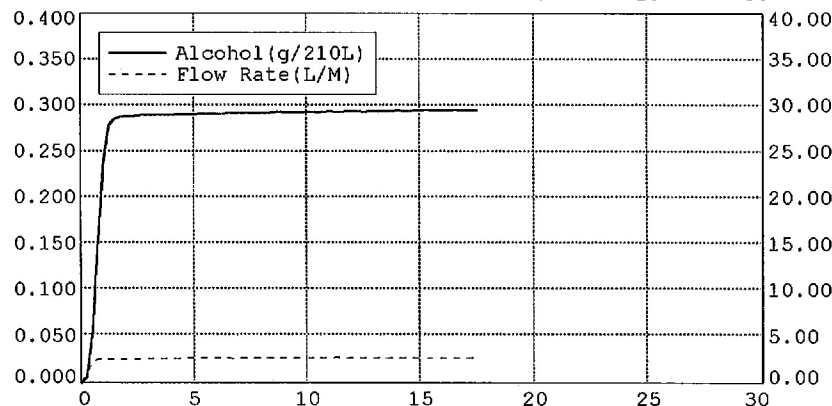
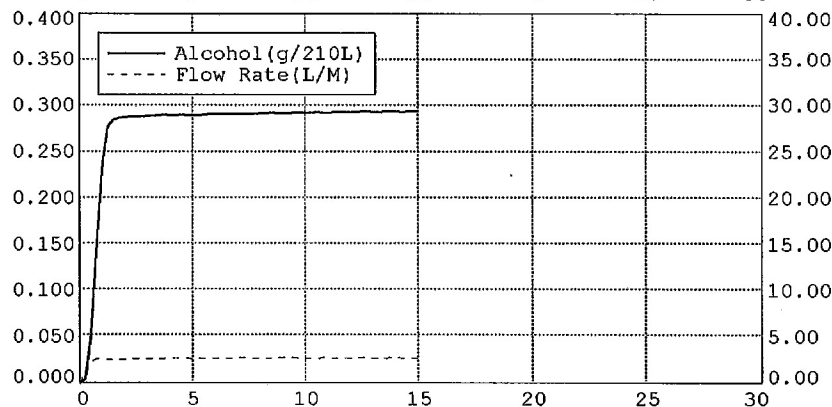
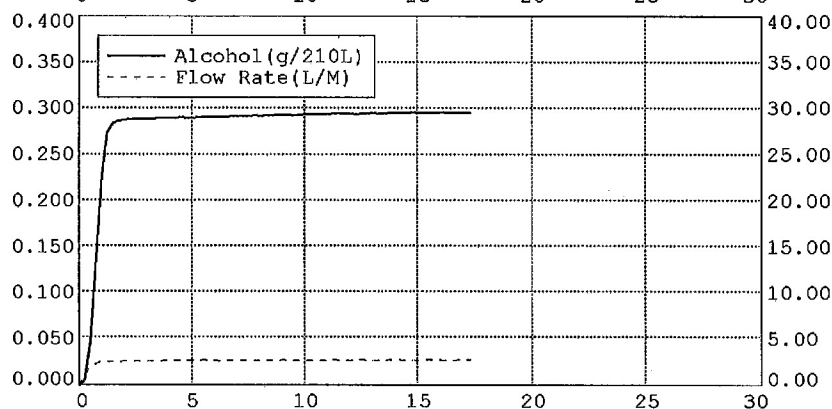
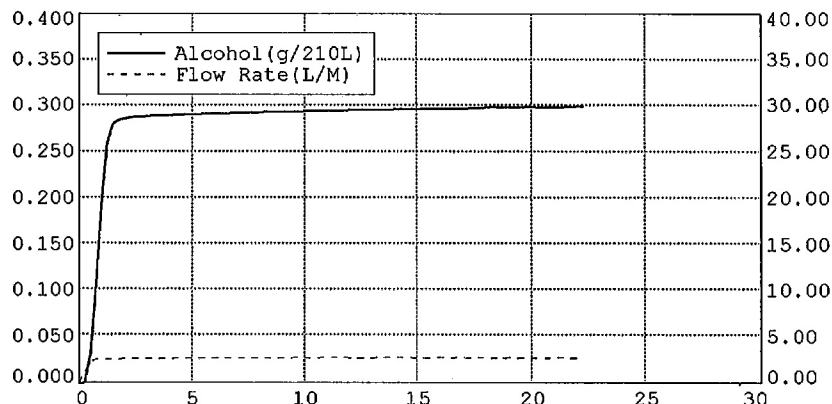
Date: 06/23/2011
Time: 10:12:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.89: 0.299
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:13
EXTERNAL STANDARD	0.297	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.295	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.293	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.294	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.293	10:20
BLANK TEST	0.000	10:21

Average = 0.2944
Std Dev = 0.0017



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100350

Date: 06/23/2011
Time: 10:30:47

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

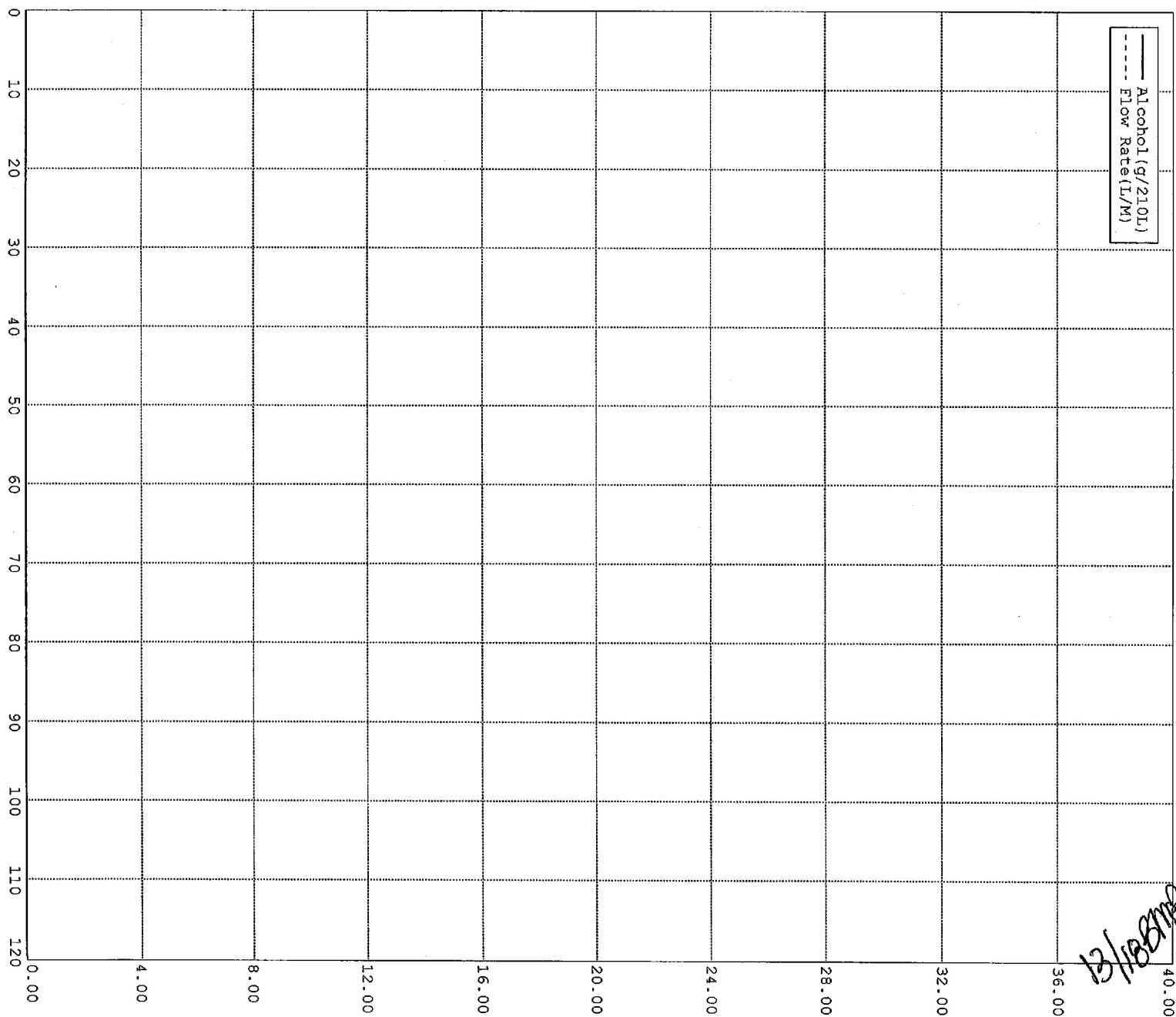
OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

DEPT/AGENCY:
FLOW SENSOR ABORT
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.89: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 10:31 0.000 10:31
INTERNAL STANDARD	VERIFIED 10:32 10:32
EXTERNAL STANDARD	0.080 10:32
BLANK TEST	0.000 10:33
SUBJECT SAMPLE	INCOMPLETE 10:35

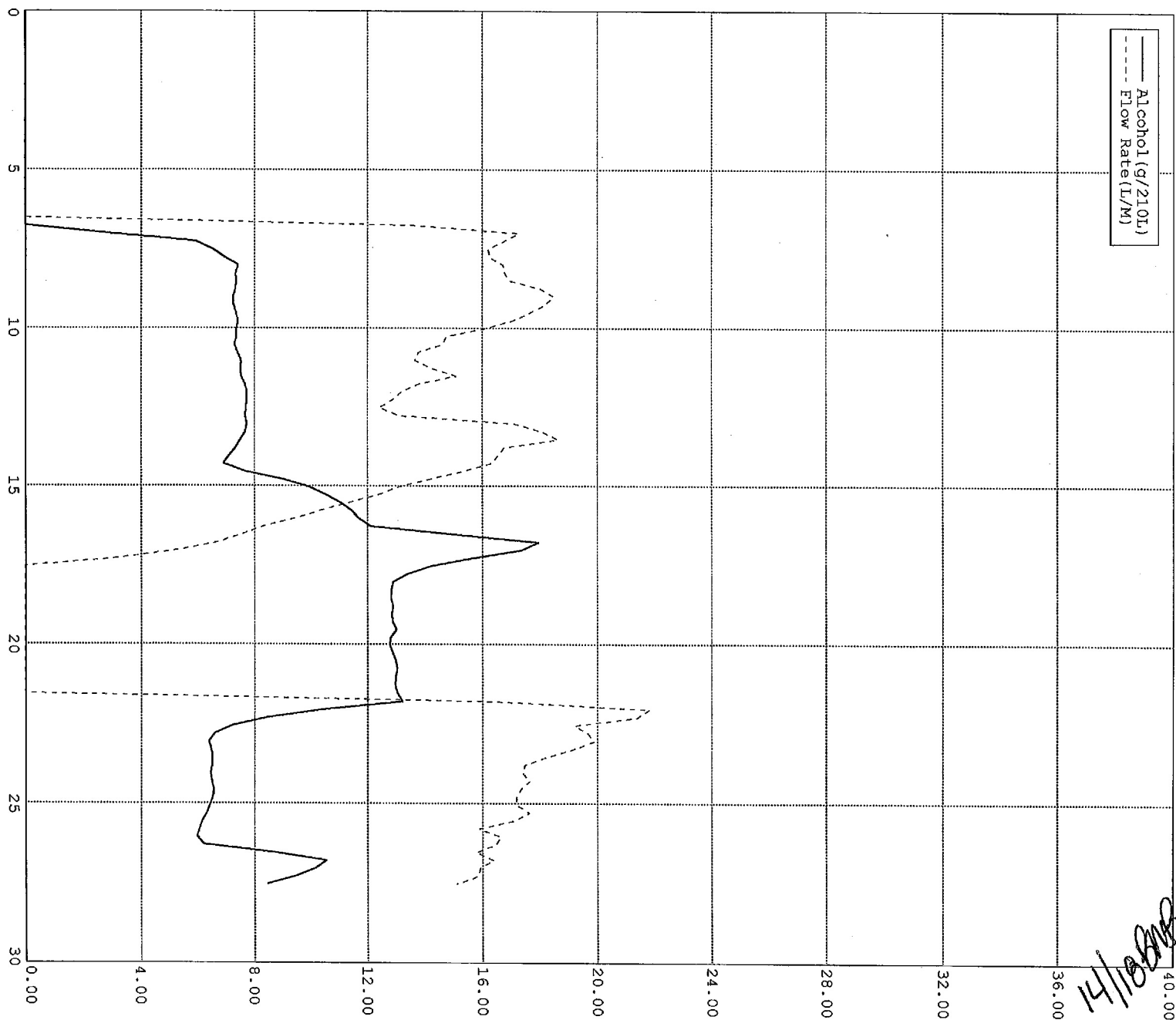
BM AB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100350Date: 06/23/2011
Time: 13:08:31SUBJECT NAME:
TEST TEST
LICENSE #: INVALIDOPERATOR NAME:
XXXX X XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.87: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 13:09
INTERNAL STANDARD VERIFIED 13:10
EXTERNAL STANDARD 0.081 13:10
BLANK TEST 0.000 13:11
SUBJECT SAMPLE Invalid 13:12

BNIB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100350

Date: 06/23/2011
Time: 13:38:02

SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERE

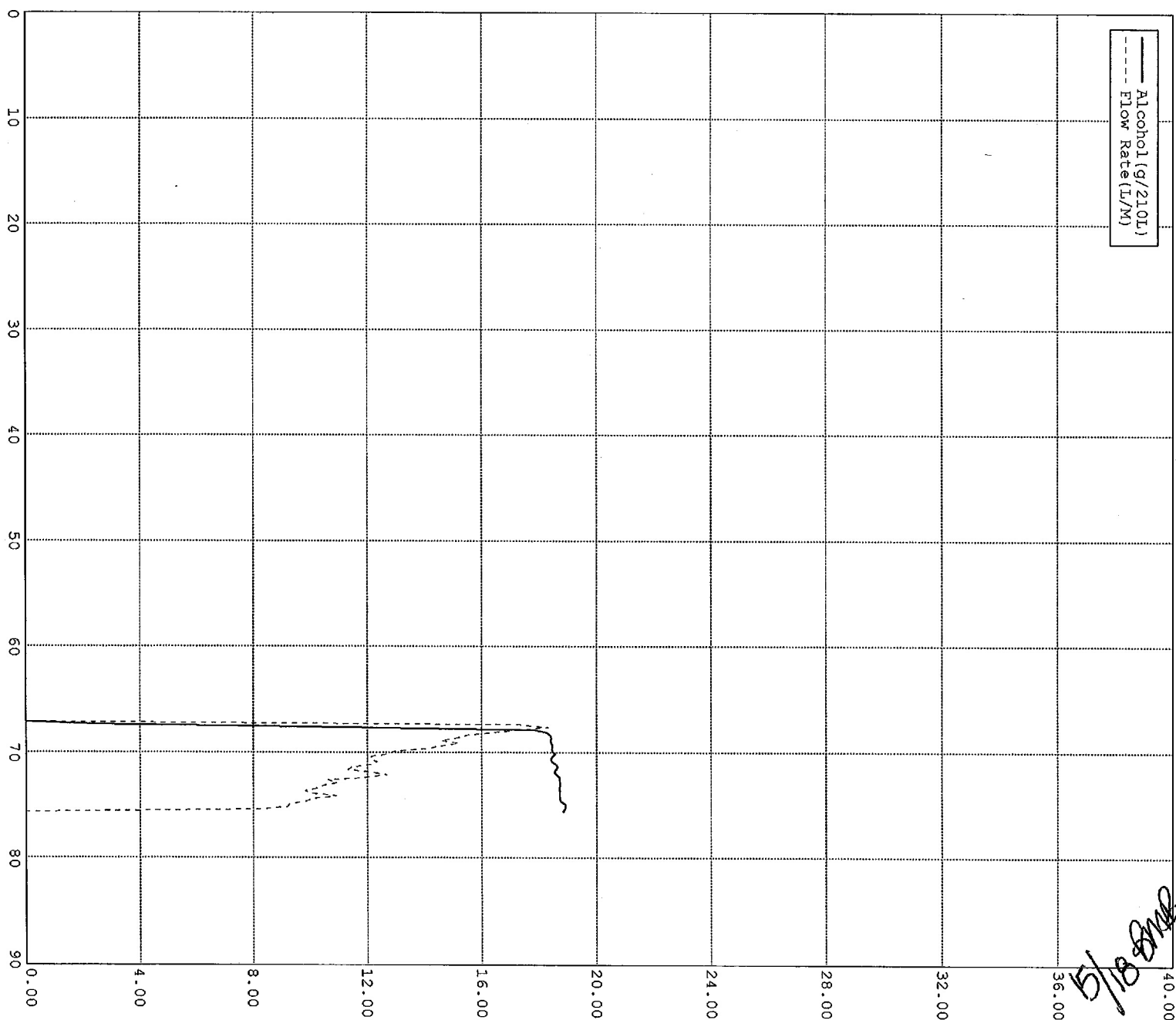
OPERATOR NAME:
ETHANOL AND ACETONE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.87: 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	0.081	13:40
BLANK TEST	0.000	13:41
SUBJECT SAMPLE	INTERFERENCE	13:42

DMB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100350

Date: 06/23/2011
Time: 13:52:44

SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERE

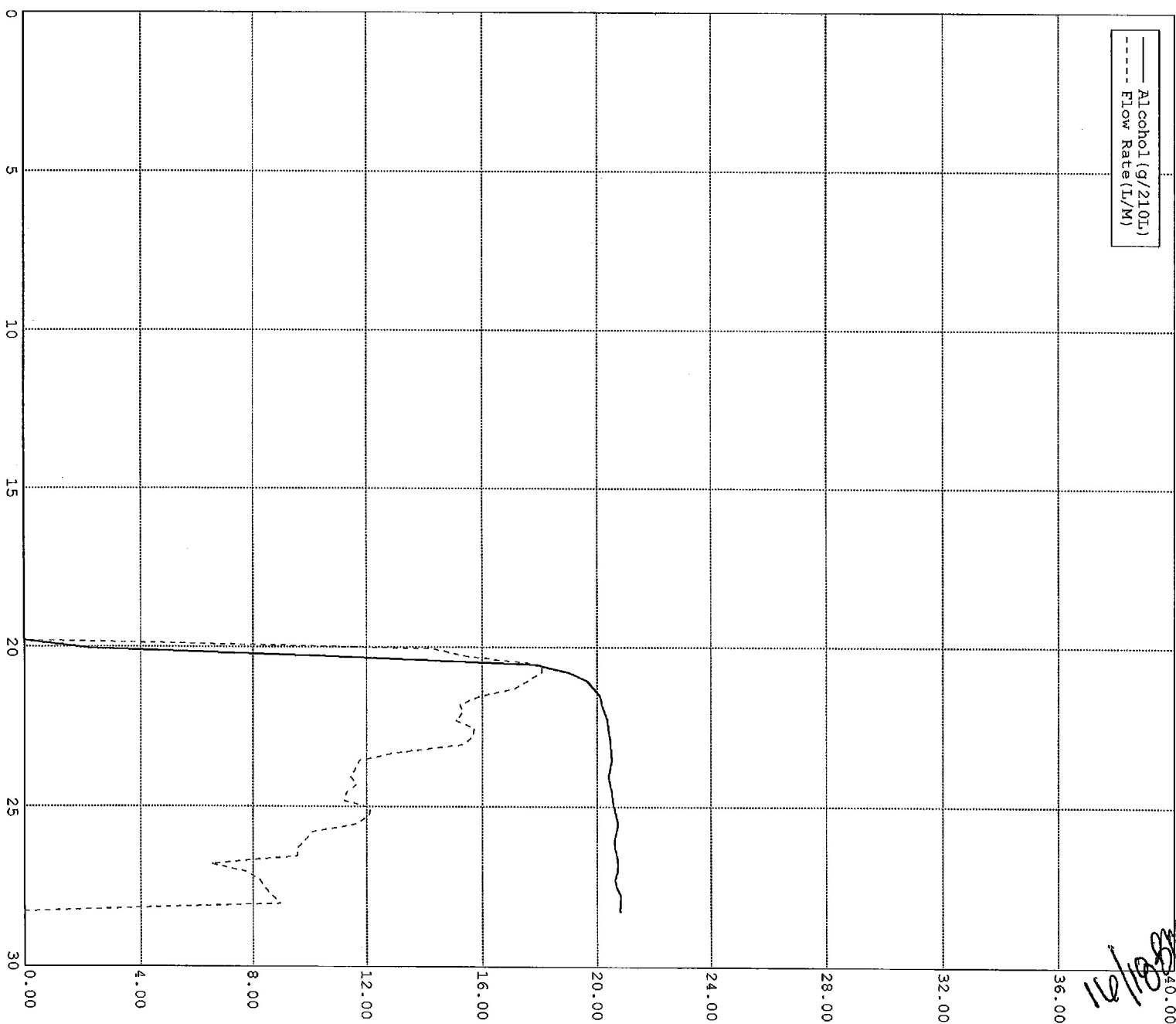
OPERATOR NAME:
ETHANOL AND ISOPROPANOL
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.87: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:53
BLANK TEST	0.000	13:54
INTERNAL STANDARD	VERIFIED	13:54
EXTERNAL STANDARD	0.081	13:54
BLANK TEST	0.000	13:55
SUBJECT SAMPLE	INTERFERENCE	13:55

Handwritten signature/initials



Handwritten signature/initials
12/10/2011

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100350

Date: 06/23/2011
Time: 13:15:06

SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERENCE

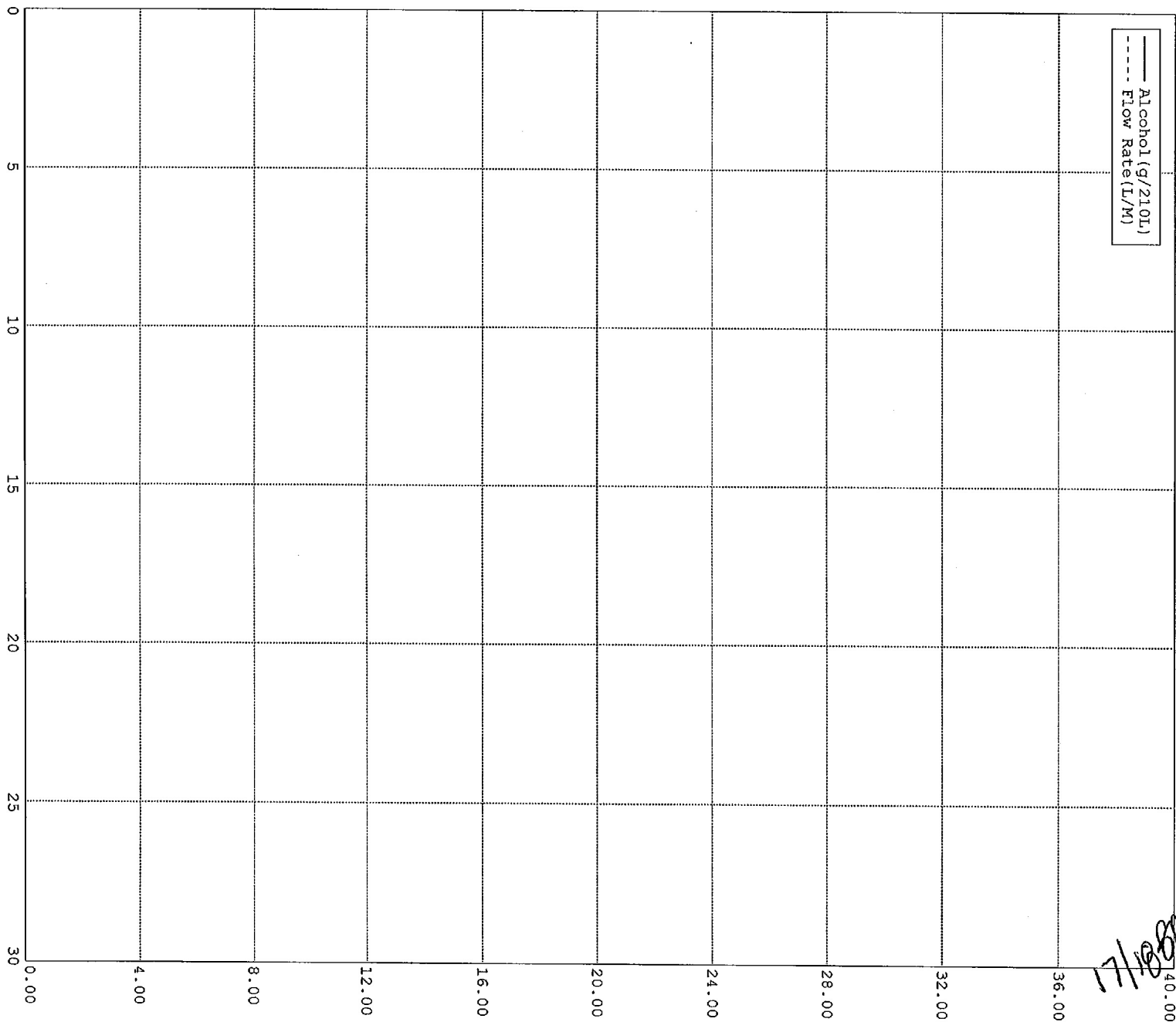
OPERATOR NAME:
RADIO FREQUENCY
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.87: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK
BLANK TEST PASSED 13:16
INTERNAL STANDARD VERIFIED 13:16
EXTERNAL STANDARD 0.081 13:16
BLANK TEST 0.000 13:17

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100350

Date: 06/23/2011
 Time: 14:00:00

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 29.87: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:01
BLANK TEST	0.000	14:01
INTERNAL STANDARD	VERIFIED	14:01
EXTERNAL STANDARD	0.081	14:02
BLANK TEST	0.000	14:02
SUBJECT SAMPLE	0.000	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.081	14:04
BLANK TEST	0.000	14:05

Handwritten signature: BMB

