

	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 # 100342Analyst Brandi BarnettDate 3/14/11

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 1400 mL ☒
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ☒
 - i. 0.020g/210L Mnf ILMO Lot 15210020A1 Exp 7/1/2012
 - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/2013
 - iii. 0.080g/210L Mnf ILMO Lot 34409080A1 Exp 01/01/2012
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/2013
 - v. 0.200g/210L Mnf ILMO Lot 05611200A3 Exp 3/1/2013
 - vi. 0.300g/210L Mnf ILMO Lot 15210300A3 Exp 7/1/2012
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)

1/18/08MB

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 03/14/2011
Time: 11:12:28

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 45.6°C	PASSED

PUMP INFO

Flow Rate = 5.009 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 BMB

Technician Screen

DATAMASTER dmt: 100342

Date: 03/14/2011
Time: 11:20 AM

Temperatures (°C)
Sample Cell: 49.4°C
Breath Tube: 44.0°C

Current Barometer 29.3 in
Volume (Ltr) 1.58

Settings
Lamp: 1.91 V
Bias: 79 V
Cooler: 1.63 V
Chopper: 529 Hz

Voltages (V)
Flow: 1.03 V
Detector: 0.448 V

3/18/11
AMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 01/10/2011
Time: 10:57:22

Ca	=	0.1000		
CAL	=	0.983915	0.800	<= CAL < 1.200
b1	=	0.0002	0.0000	<= b1 < 0.0040
b2	=	0.0039	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0968	0.0500	<= Xq < 0.2000
a21	=	1.190513	1.050	<= a21 < 1.300
a31	=	0.482210	0.300	<= a31 < 0.800

4/18/08

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

Date: 03/14/2011
 Time: 11:22:28

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

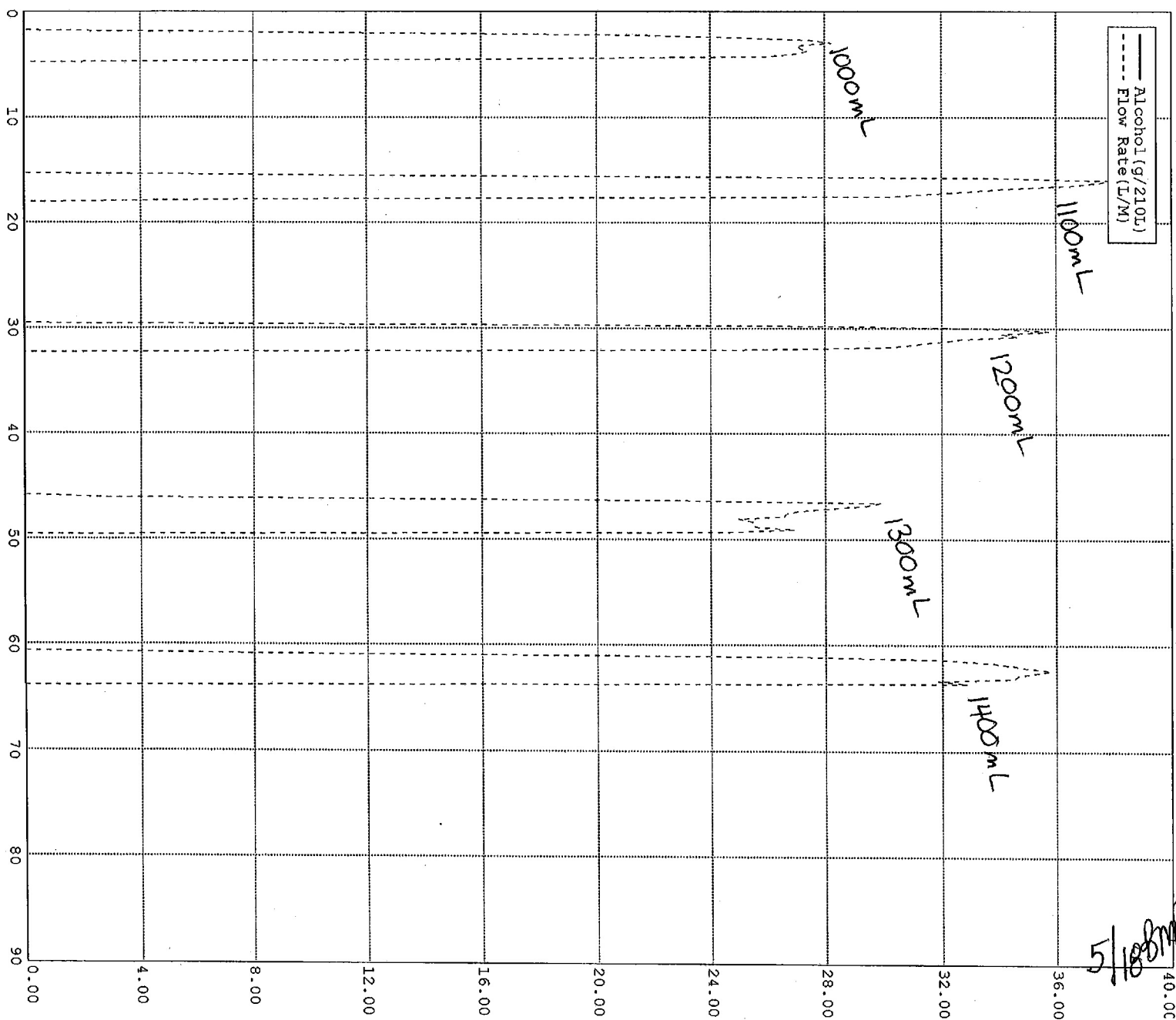
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.28: 0.078
 LOT #: 34409080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	11:23
BLANK TEST	0.000	11:23
INTERNAL STANDARD	VERIFIED	11:23
EXTERNAL STANDARD	0.080	11:24
BLANK TEST	0.000	11:25
SUBJECT SAMPLE	0.000	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.079	11:27
BLANK TEST	0.000	11:28

BMB



LINEARITY CHECK

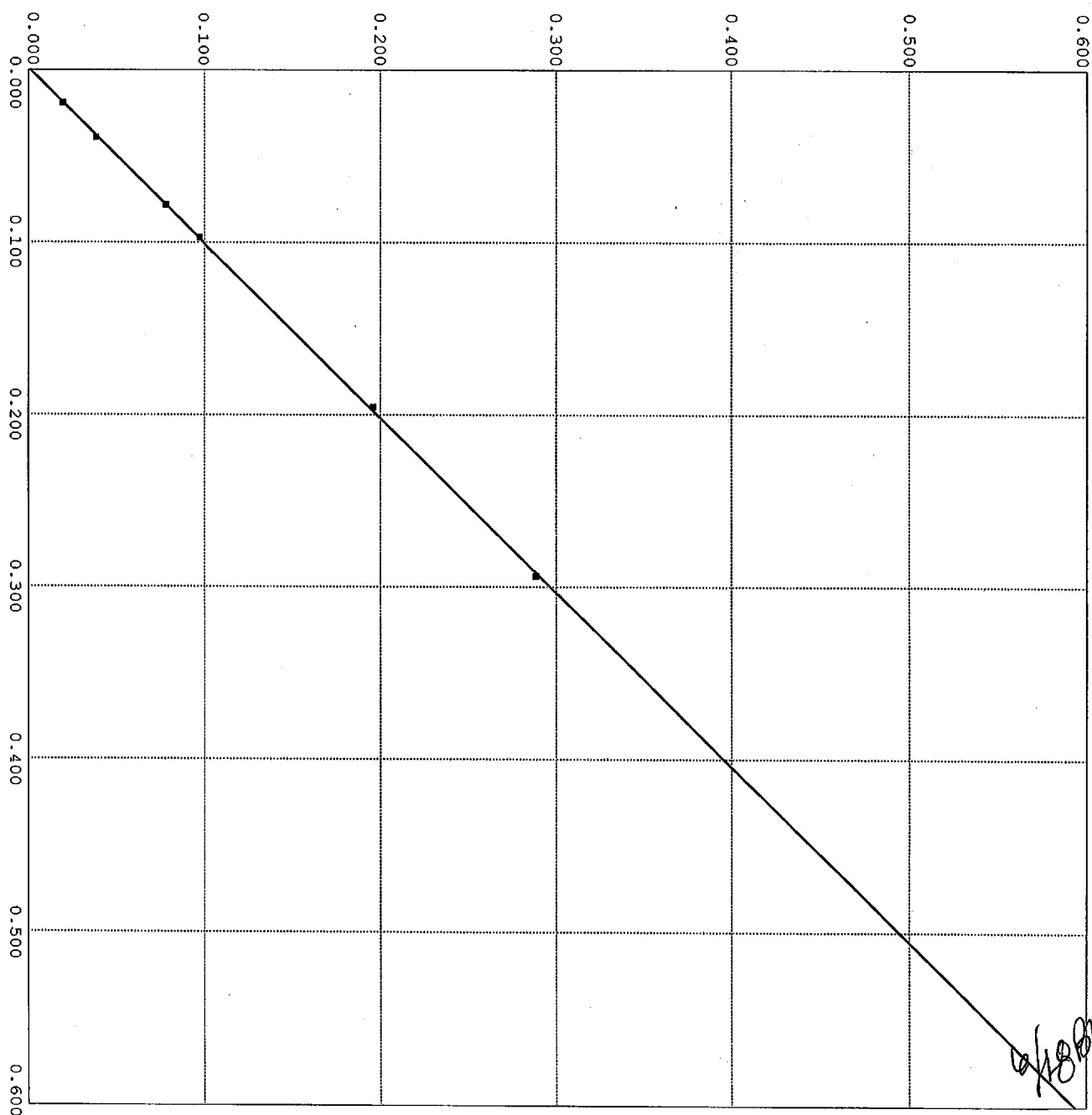
Alaska Department of Public Safety
DATAMASTER dnt: 100342

Date: 03/14/2011
Time: 11:33:31

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.039	0.0390	0.0000
0.078	0.0786	0.0005
0.097	0.0980	0.0000
0.195	0.1968	0.0004
0.293	0.2894	0.0005

SLOPE = 0.988333
 R^2 = 0.999897



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100342

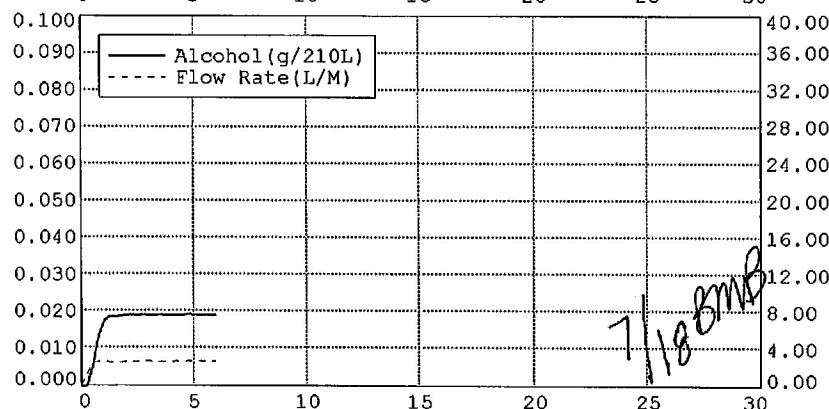
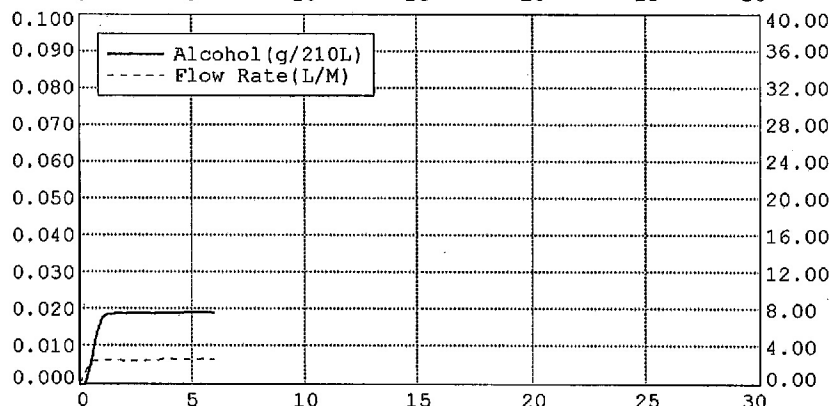
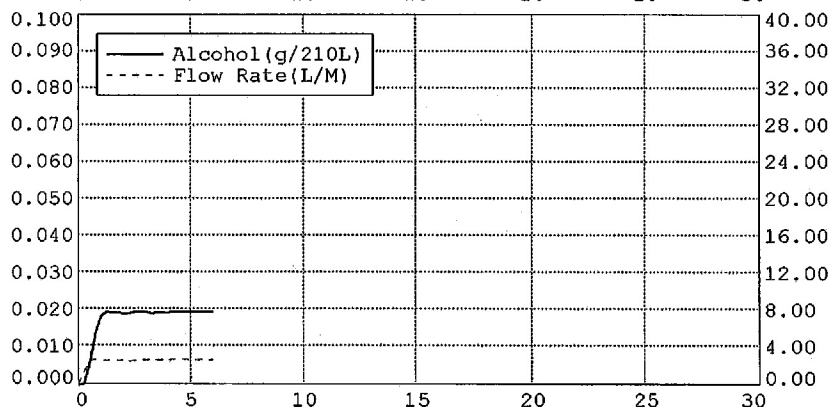
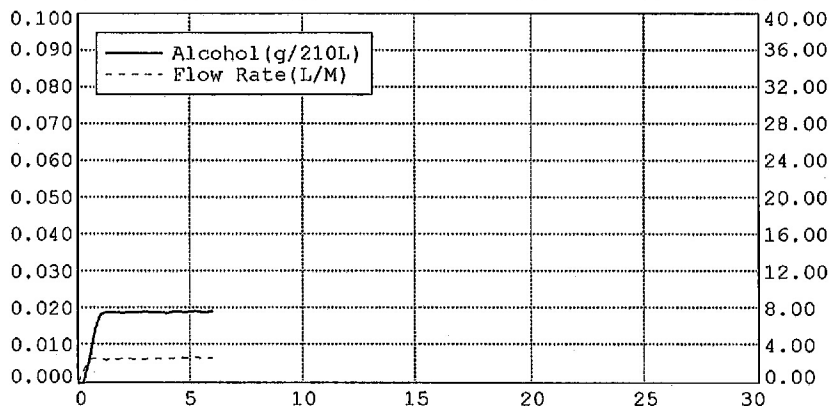
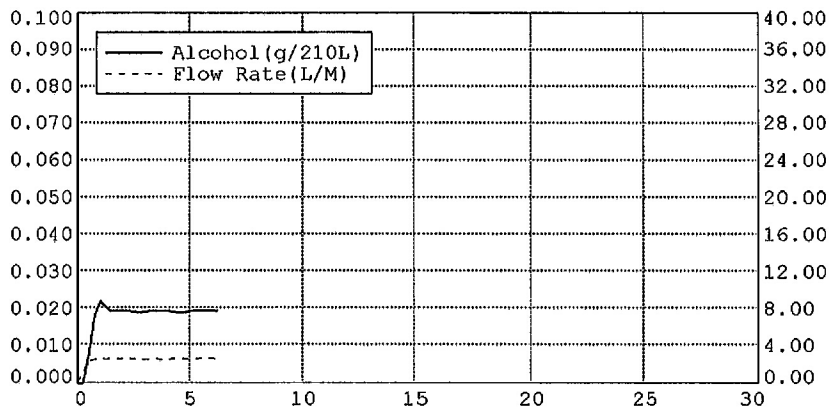
Date: 03/14/2011
Time: 11:45:33

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.28: 0.019
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	11:46
INTERNAL STANDARD	VERIFIED	11:46
EXTERNAL STANDARD	0.020	11:47
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.020	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.020	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.020	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.020	11:51
BLANK TEST	0.000	11:52

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100342

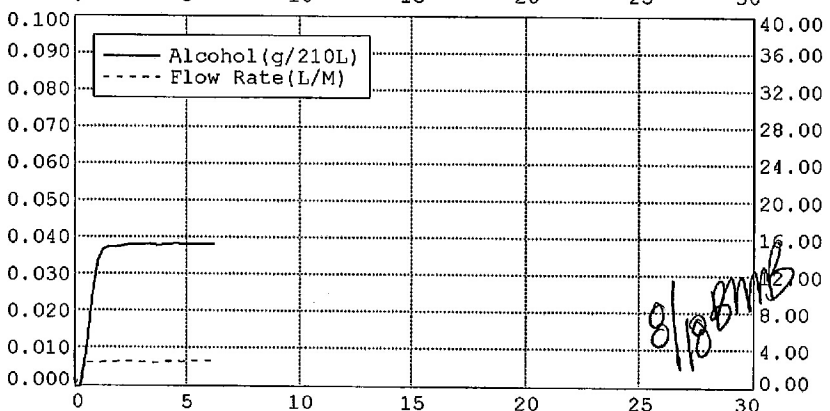
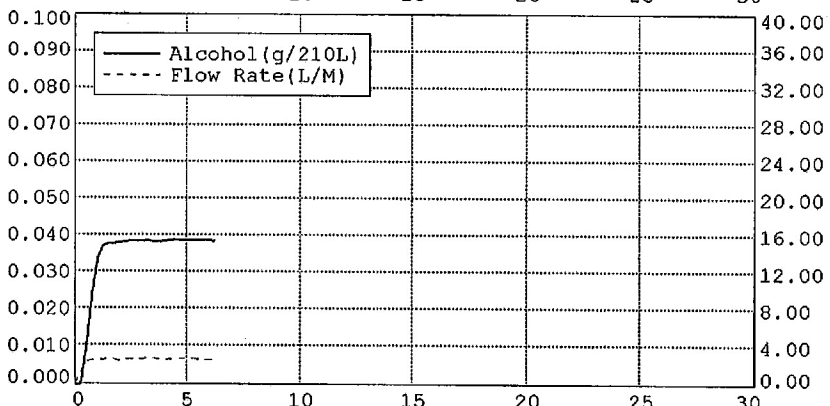
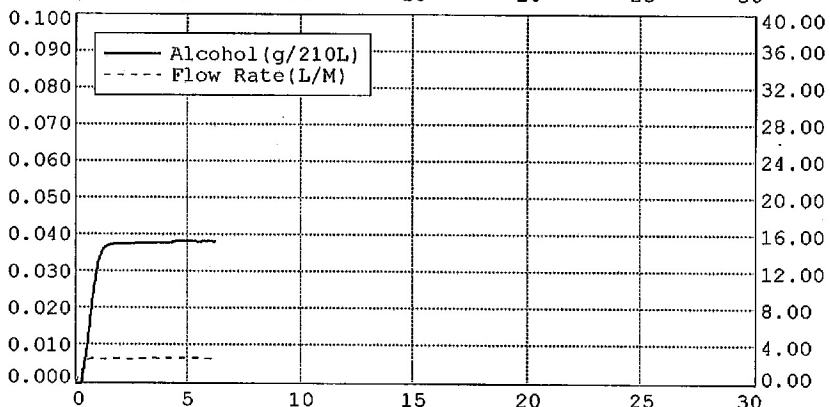
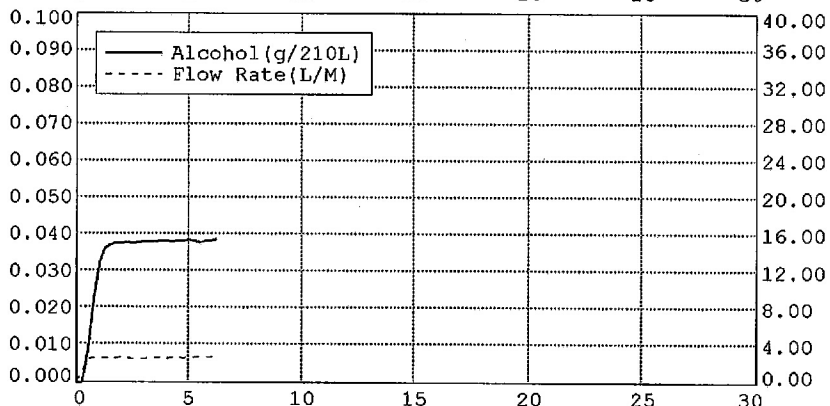
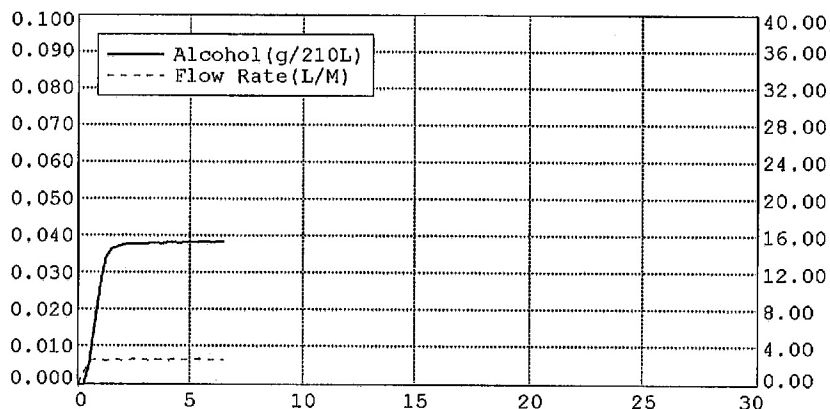
Date: 03/14/2011
Time: 11:55:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.29: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:56
INTERNAL STANDARD	VERIFIED	11:56
EXTERNAL STANDARD	0.039	11:57
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.039	11:58
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.039	11:59
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.039	12:00
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.039	12:01
BLANK TEST	0.000	12:02

Average = 0.0390
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100342

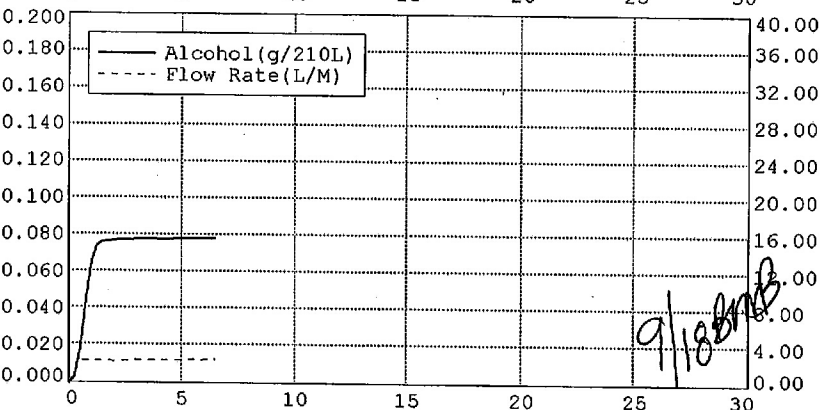
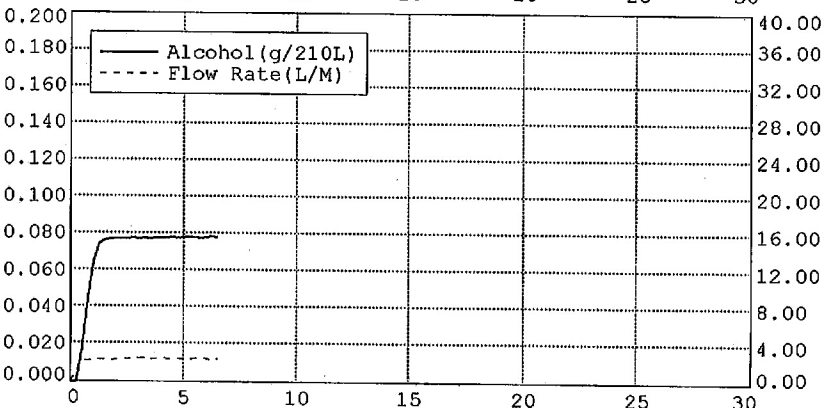
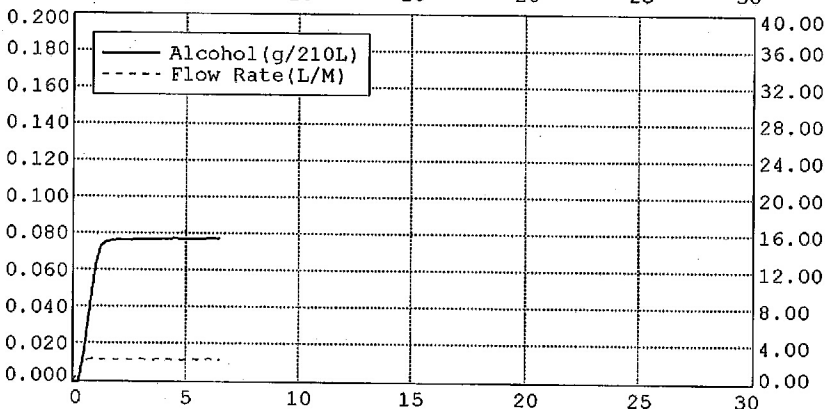
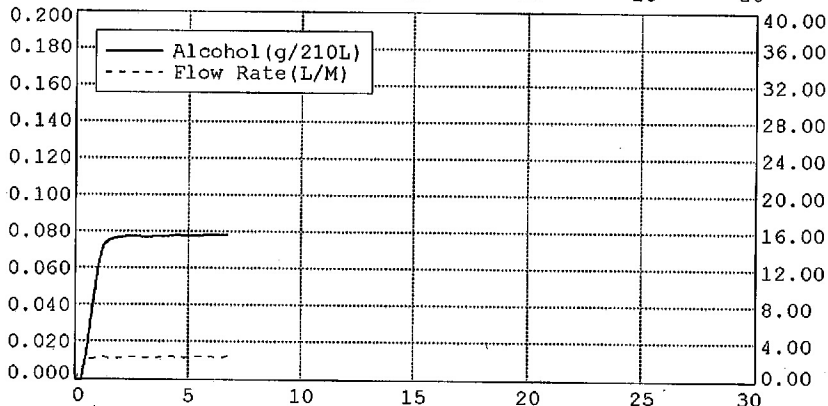
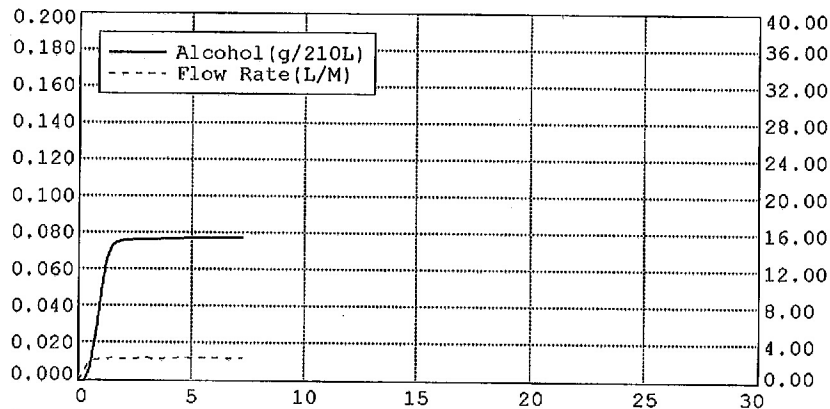
Date: 03/14/2011
Time: 12:04:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.29: 0.078
LOT #: 34409080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	12:05
INTERNAL STANDARD	VERIFIED	12:06
EXTERNAL STANDARD	0.078	12:06
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.079	12:07
BLANK TEST	0.000	12:08
EXTERNAL STANDARD	0.078	12:08
BLANK TEST	0.000	12:09
EXTERNAL STANDARD	0.079	12:09
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.079	12:10
BLANK TEST	0.000	12:11

Average = 0.0786
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100342

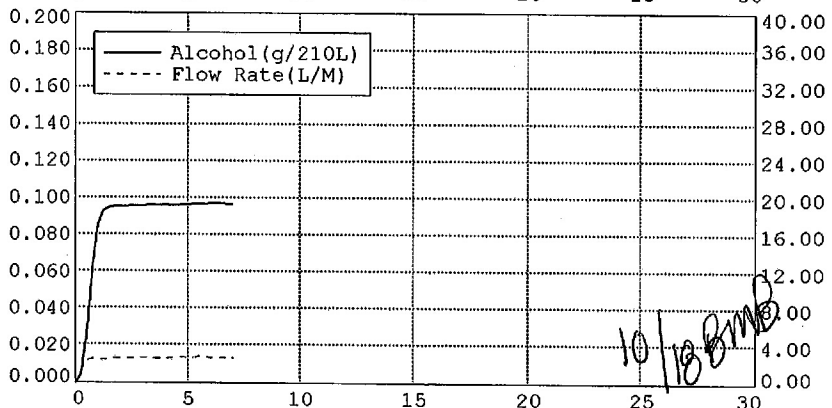
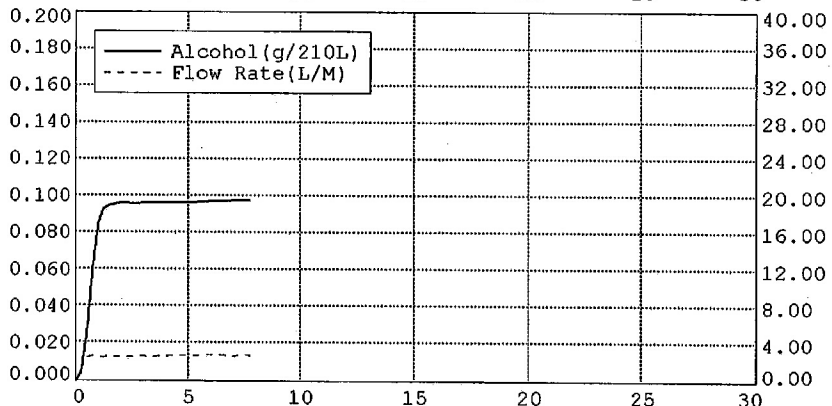
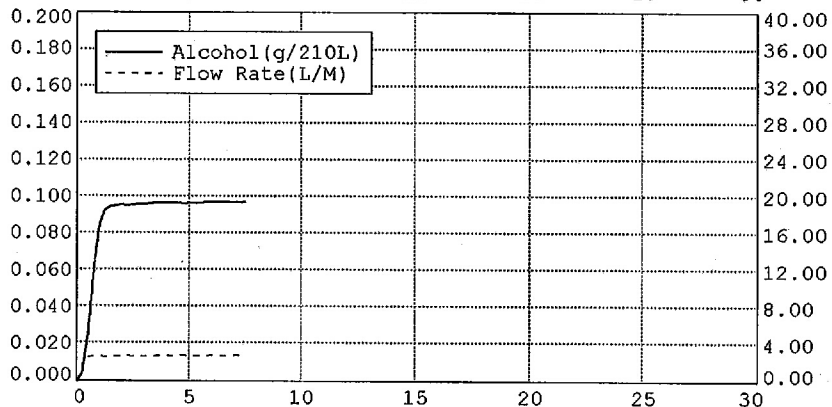
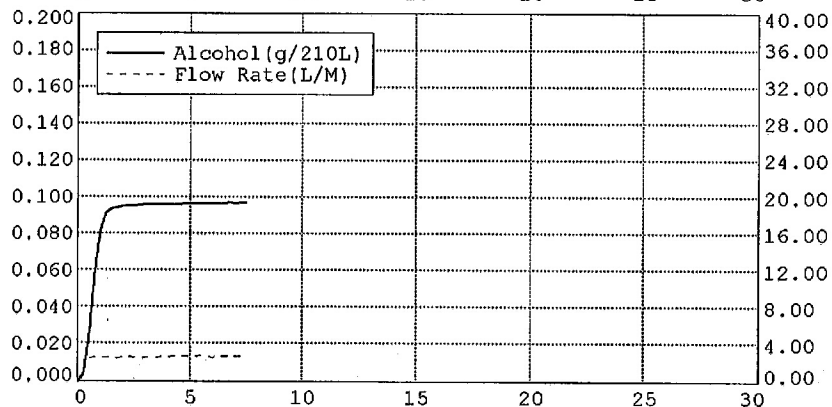
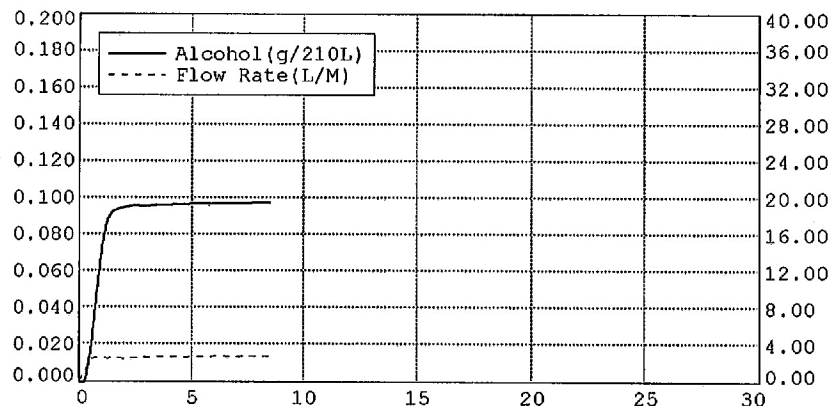
Date: 03/14/2011
Time: 12:12:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.29: 0.097
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:14
INTERNAL STANDARD	VERIFIED	12:14
EXTERNAL STANDARD	0.098	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.098	12:15
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.098	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.098	12:17
BLANK TEST	0.000	12:18
EXTERNAL STANDARD	0.098	12:18
BLANK TEST	0.000	12:19

Average = 0.0980
Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100342

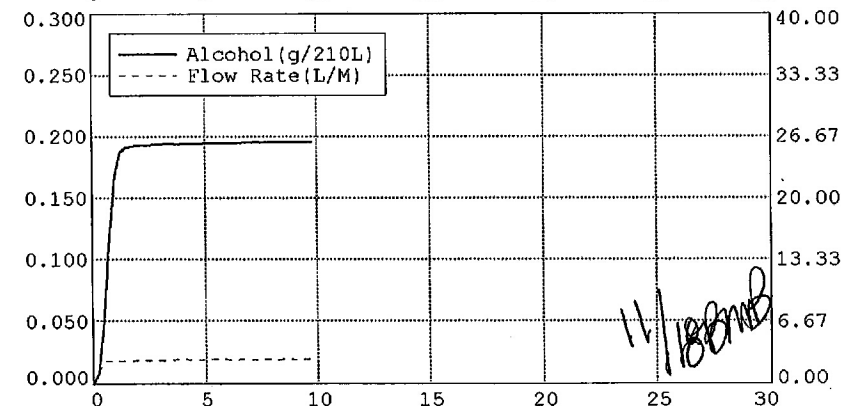
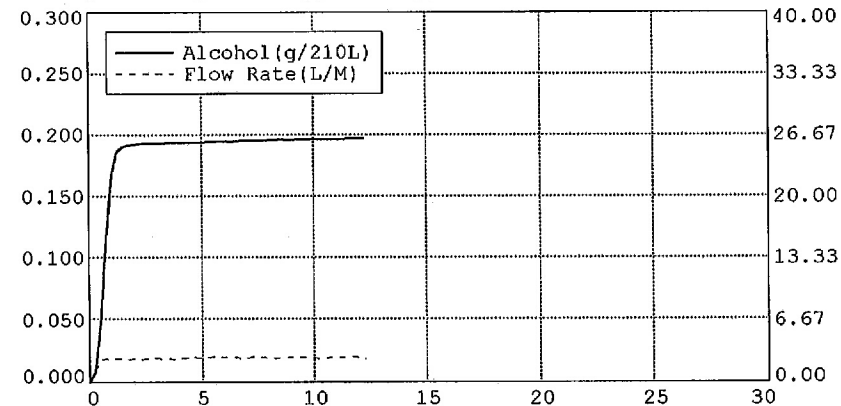
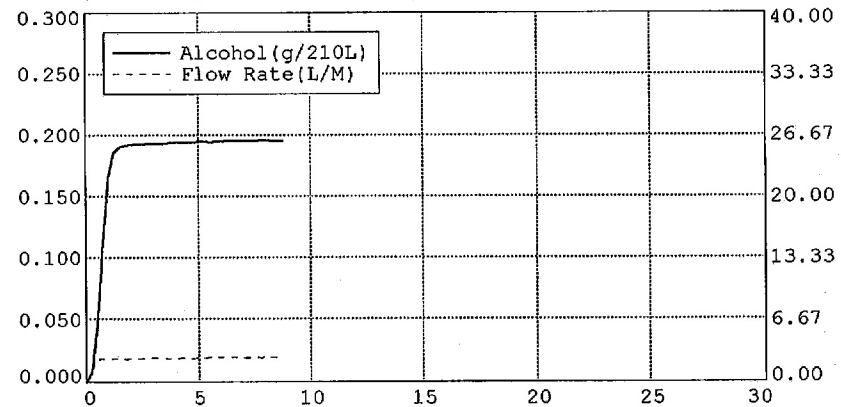
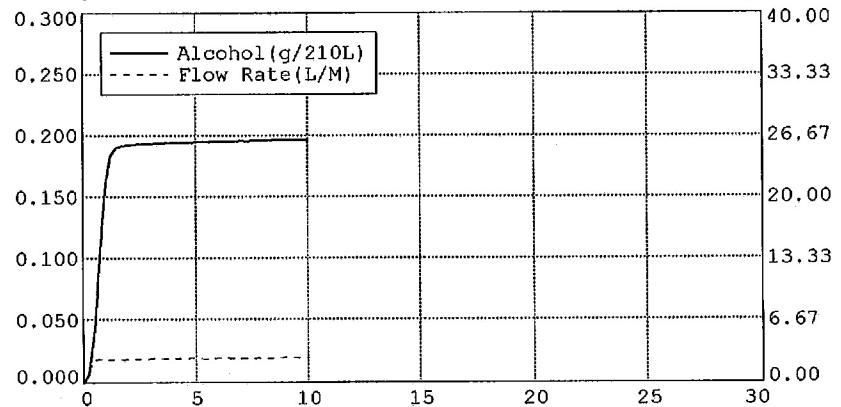
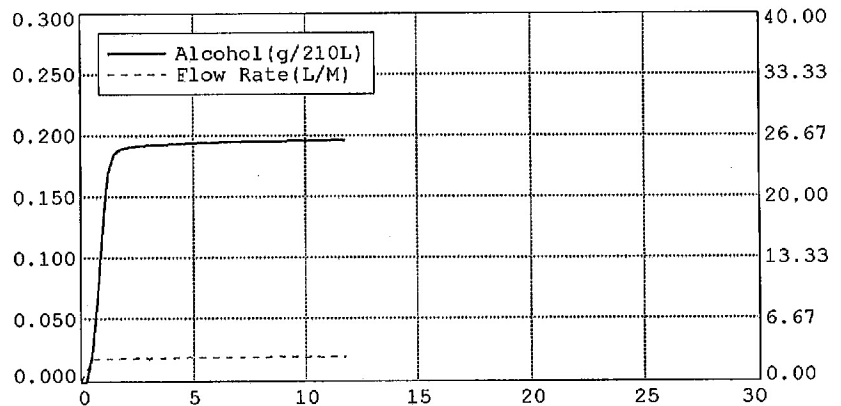
Date: 03/14/2011
Time: 12:22:11

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.29: 0.195
LOT #: 05611200A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:23
INTERNAL STANDARD	VERIFIED	12:23
EXTERNAL STANDARD	0.197	12:23
BLANK TEST	0.000	12:24
EXTERNAL STANDARD	0.197	12:24
BLANK TEST	0.000	12:25
EXTERNAL STANDARD	0.196	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.197	12:27
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.197	12:28
BLANK TEST	0.000	12:29

Average = 0.1968
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100342

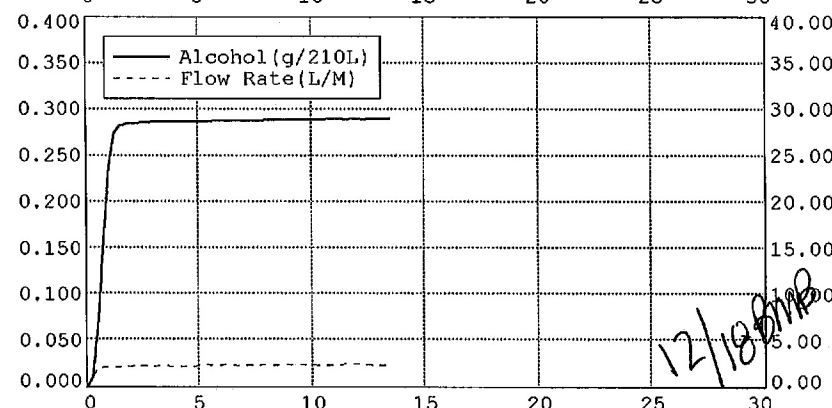
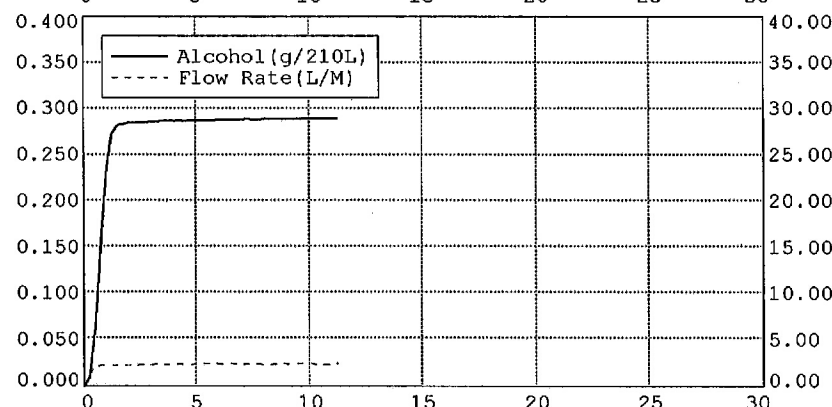
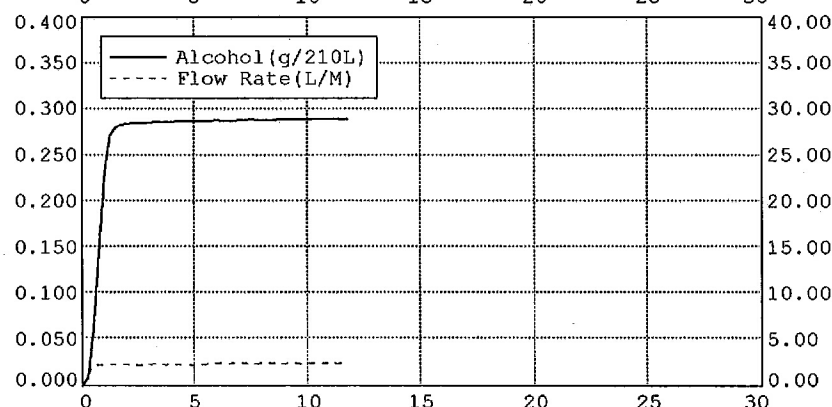
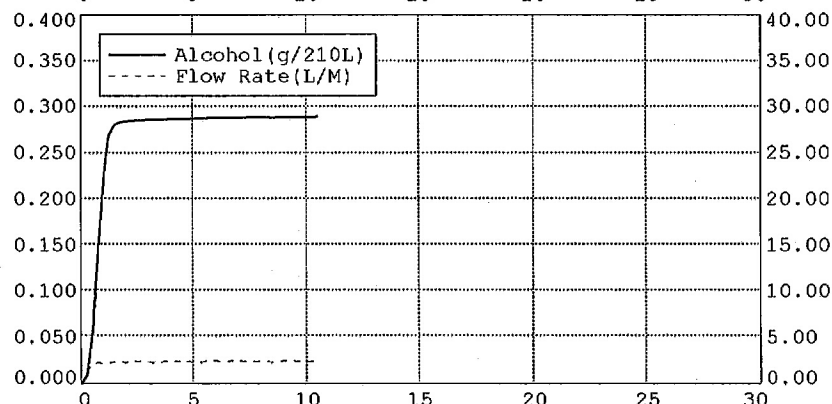
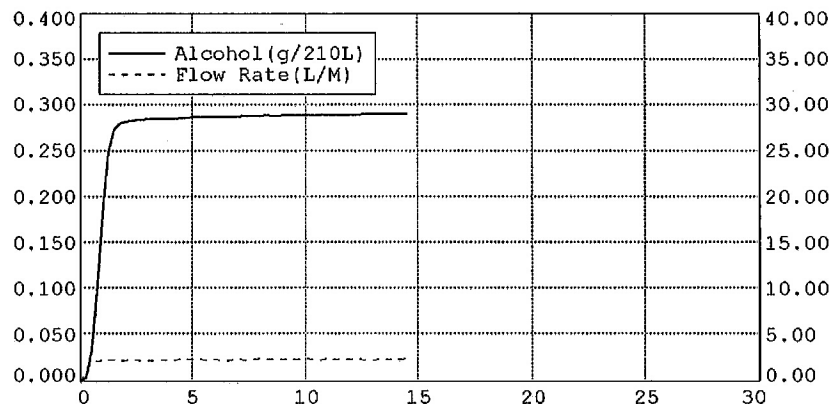
Date: 03/14/2011
Time: 12:30:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.29: 0.293
LOT #: 15210300A3
EXPIRATION: 07/01/2012

BLANK TEST	0.000	12:31
INTERNAL STANDARD	VERIFIED	12:31
EXTERNAL STANDARD	0.290	12:32
BLANK TEST	0.000	12:33
EXTERNAL STANDARD	0.289	12:33
BLANK TEST	0.000	12:34
EXTERNAL STANDARD	0.289	12:34
BLANK TEST	0.000	12:35
EXTERNAL STANDARD	0.289	12:35
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.290	12:37
BLANK TEST	0.000	12:38

Average = 0.2894
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

Date: 03/14/2011
 Time: 13:40:52

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

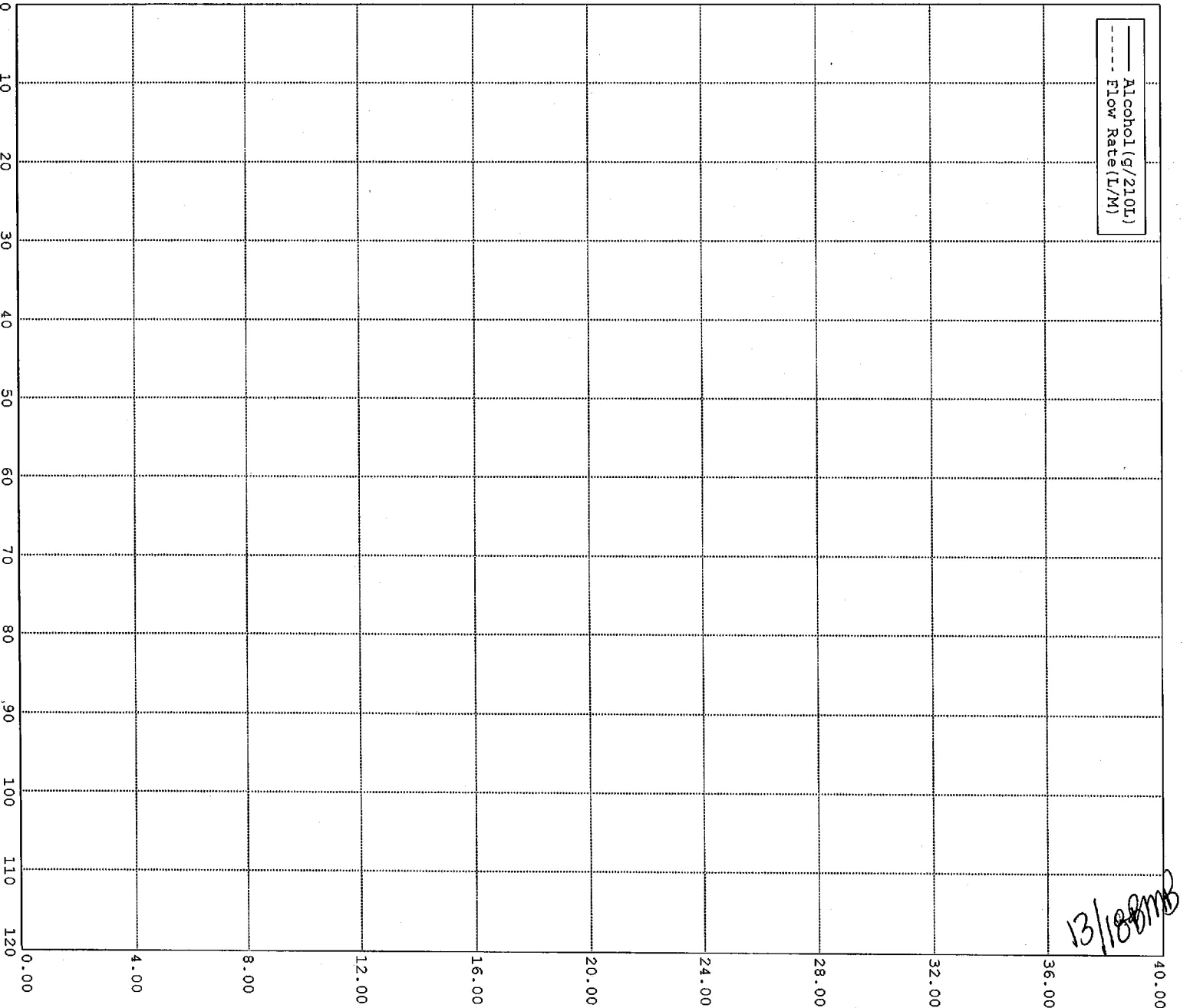
OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.29: 0.078
 LOT #: 34409080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	13:41
BLANK TEST	0.000	13:42
INTERNAL STANDARD	VERIFIED	13:42
EXTERNAL STANDARD	0.079	13:42
BLANK TEST	0.000	13:43
SUBJECT SAMPLE	INCOMPLETE	13:45

Handwritten signature/initials



Handwritten date and initials: 13/11/08 mb

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 03/14/2011

Time: 13:47:32

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 29.29: 0.078

LOT #: 34409080A1

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED

0.000

VERIFIED

0.079

INVALID

Invalid

13:48

13:48

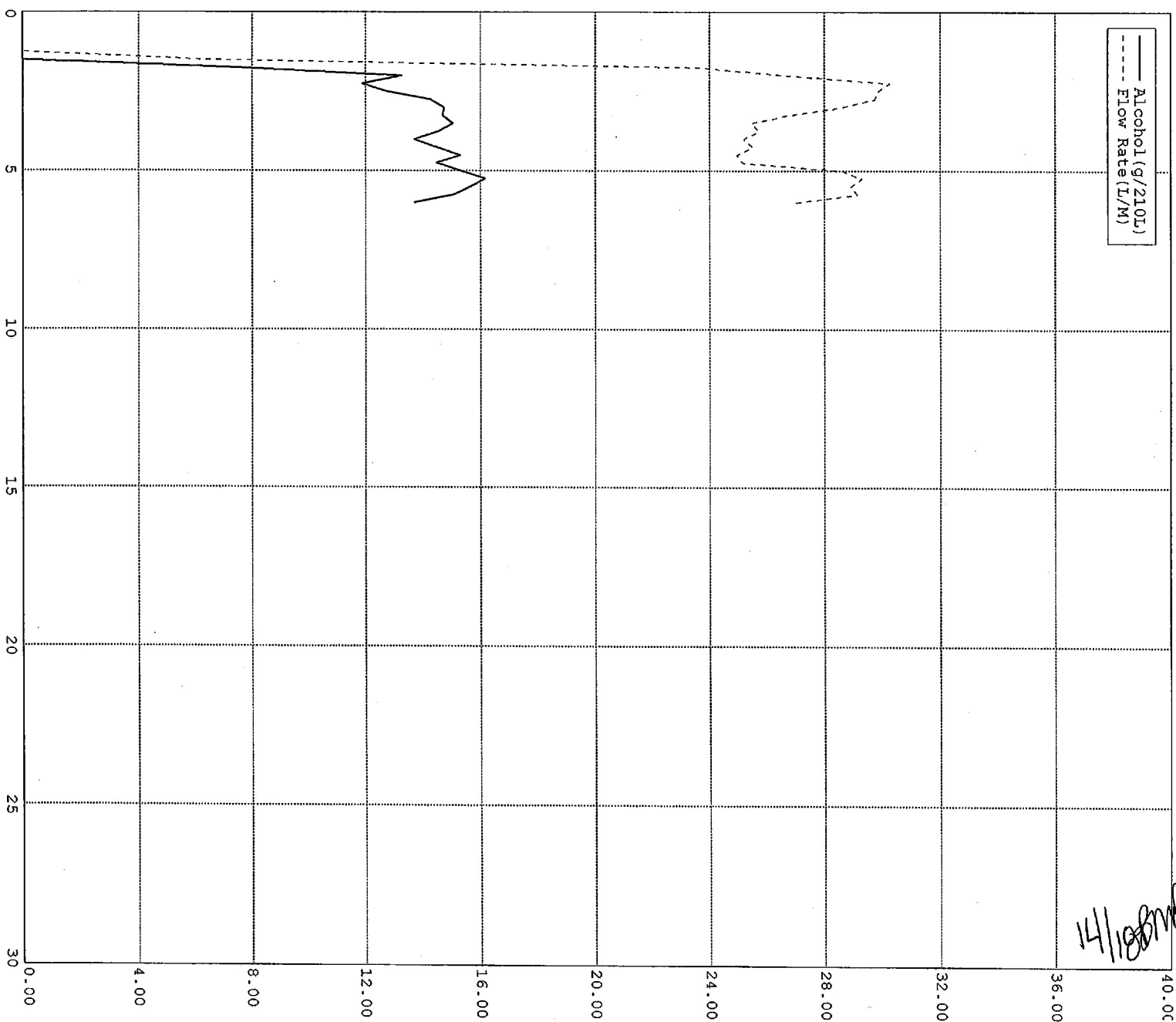
13:48

13:49

13:50

13:50

BN1B

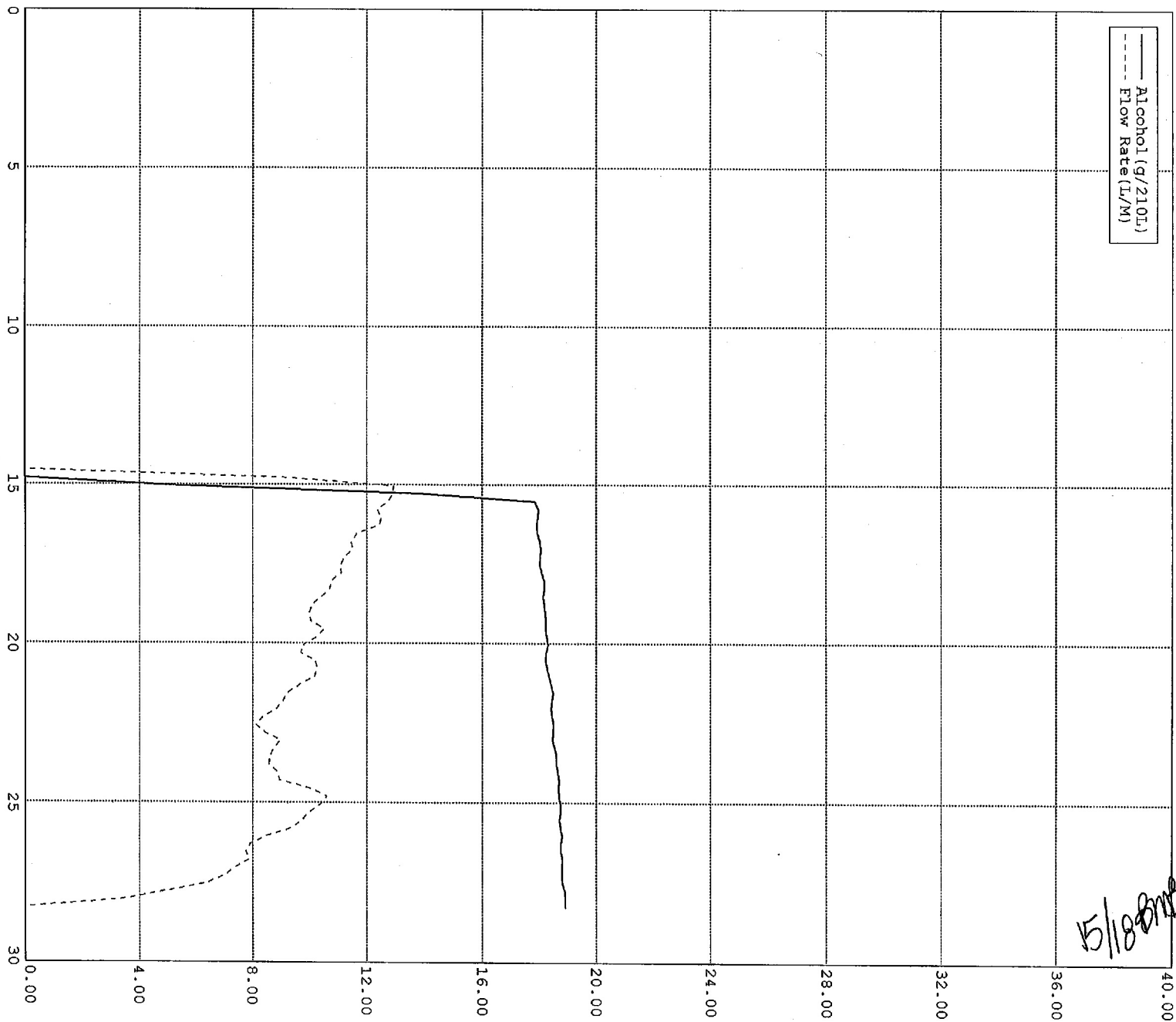


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342Date: 03/14/2011
Time: 14:06:12SUBJECT NAME:
TEST TEST
LICENSE #: INTERFEREOPERATOR NAME:
ETHANOL AND ACETONE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.29: 0.078
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:07
BLANK TEST	0.000	14:07
INTERNAL STANDARD	VERIFIED	14:07
EXTERNAL STANDARD	0.078	14:08
BLANK TEST	0.000	14:09
SUBJECT SAMPLE	INTERFERENCE	14:09

BMB

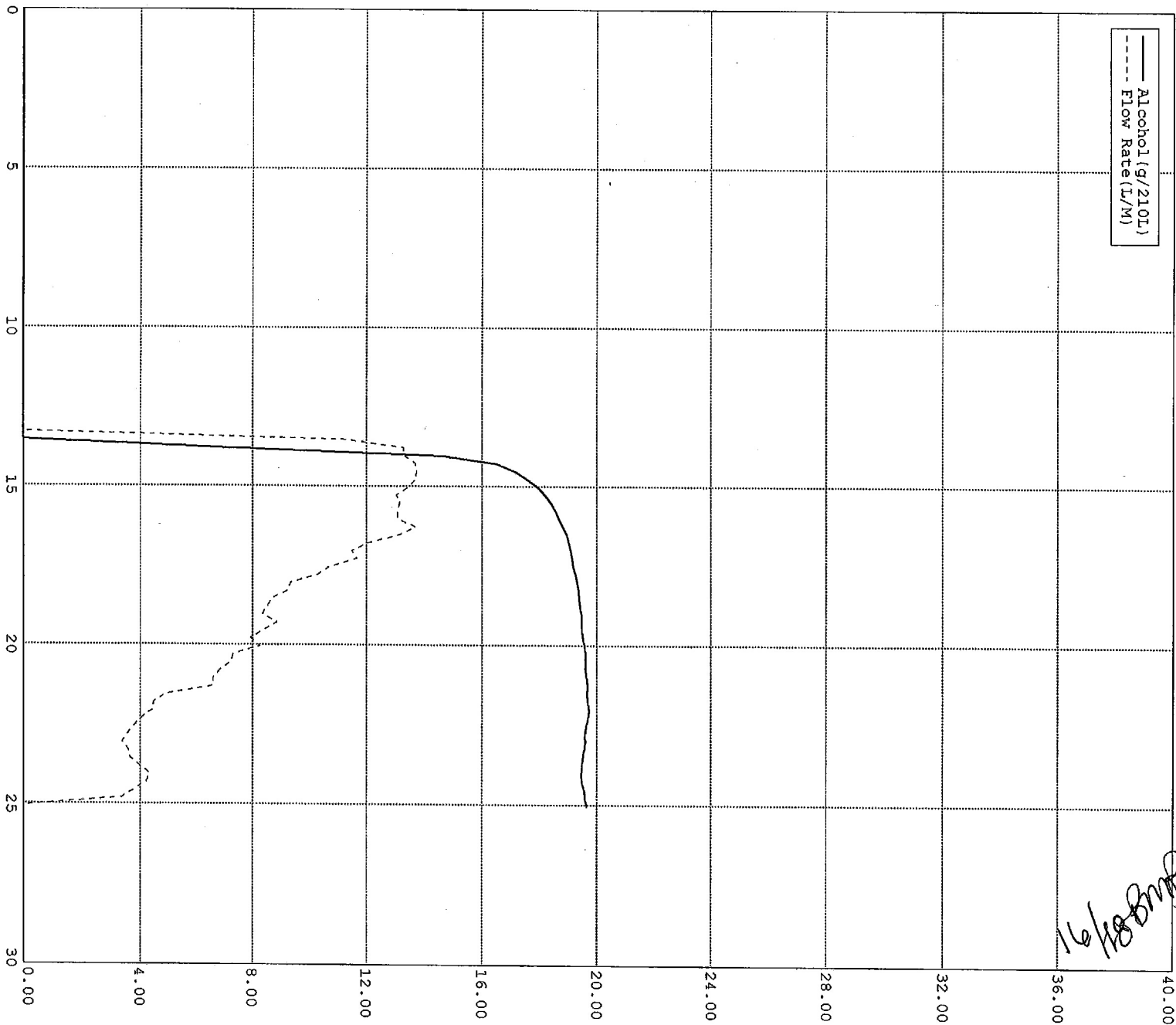


SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmc: 100342Date: 03/14/2011
Time: 14:11:47SUBJECT NAME:
TEST TEST
LICENSE #: INTERFEREOPERATOR NAME:
ETHANOL AND ISOPROPANOL
OPERATOR'S #: XXXDEPT/AGENCY:
XXX
CASE/REPORT: XXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.29: 0.078
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:13
BLANK TEST	0.000	14:13
INTERNAL STANDARD	VERIFIED	14:13
EXTERNAL STANDARD	0.079	14:14
BLANK TEST	0.000	14:15
SUBJECT SAMPLE	INTERFERENCE	14:15

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 03/14/2011
Time: 14:18:39

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
RADIO FREQUENCY
OPERATOR'S #: XXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.29: 0.078
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:19
BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:20

RFI Detected

17/10/08

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

Date: 03/14/2011
 Time: 14:37:52

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

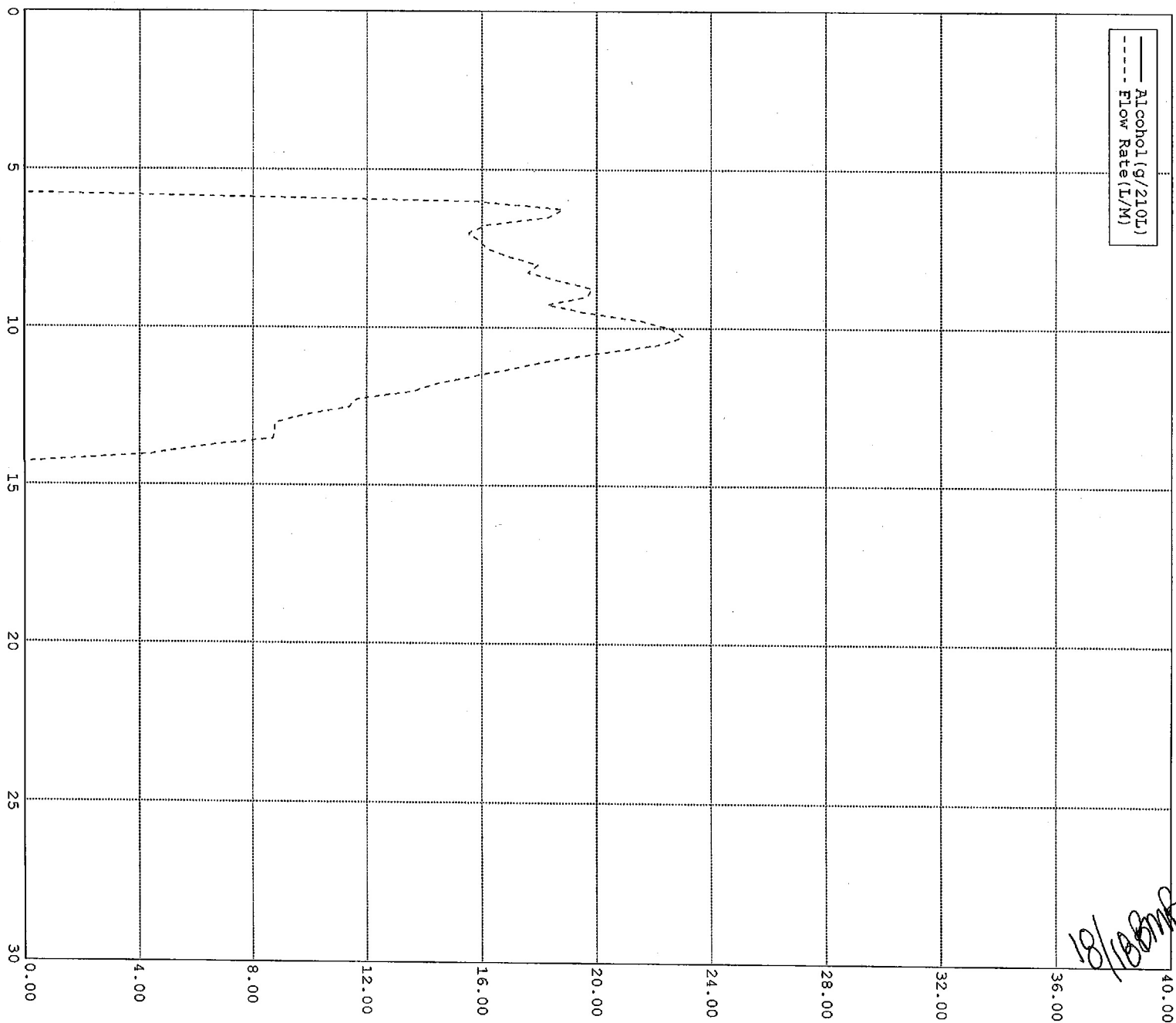
DEPT/AGENCY:
 NON-DRINKING SUBJECT TEST
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.28: 0.078
 LOT #: 34409080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:39
BLANK TEST	0.000	14:39
INTERNAL STANDARD	VERIFIED	14:39
EXTERNAL STANDARD	0.079	14:39
BLANK TEST	0.000	14:40
SUBJECT SAMPLE	0.000	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.079	14:41
BLANK TEST	0.000	14:42

BMB



Final page for report

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7/23/2013