

	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 # 102353Analyst Brandi BarnettDate 3/15/11

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 02/1/13ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/1/13iii. 0.080g/210L Mnf ILMO Lot 34409080A1 Exp 01/1/12iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13v. 0.200g/210L Mnf ILMO Lot 05611200A3 Exp 3/1/13vi. 0.300g/210L Mnf ILMO Lot 15210300A3 Exp 7/1/12 *Bmb*05611300A4 3/1/13

6. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/111. Simulator Calibration Date 10/18/10 SN DR6267ii. Isopropanol - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/111. Simulator Calibration Date 08/04/2010 SN SD1202d. RFI ☒7. Calibrate Stylus ☒8. Verify card reader is functional ☒9. Upload ☒10. Reset Options ☒

11. Non-Drinking Subject Test (attached)

11/18/11 Bmb

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 03/15/2011
Time: 10:29:40

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 45.2°C	PASSED

PUMP INFO

Flow Rate = 5.004 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

2/10/08 MB

Technician Screen

DATAMASTER dmt: 100353
-----Date: 03/15/2011
Time: 10:41 AM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 45.9°CCurrent Barometer 29.2 in
Volume (Ltr) 1.47

Settings

Lamp: 2.12 V
Bias: 77 V
Cooler: 1.74 V
Chopper: 545 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.612 V

3/16/2011

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100353

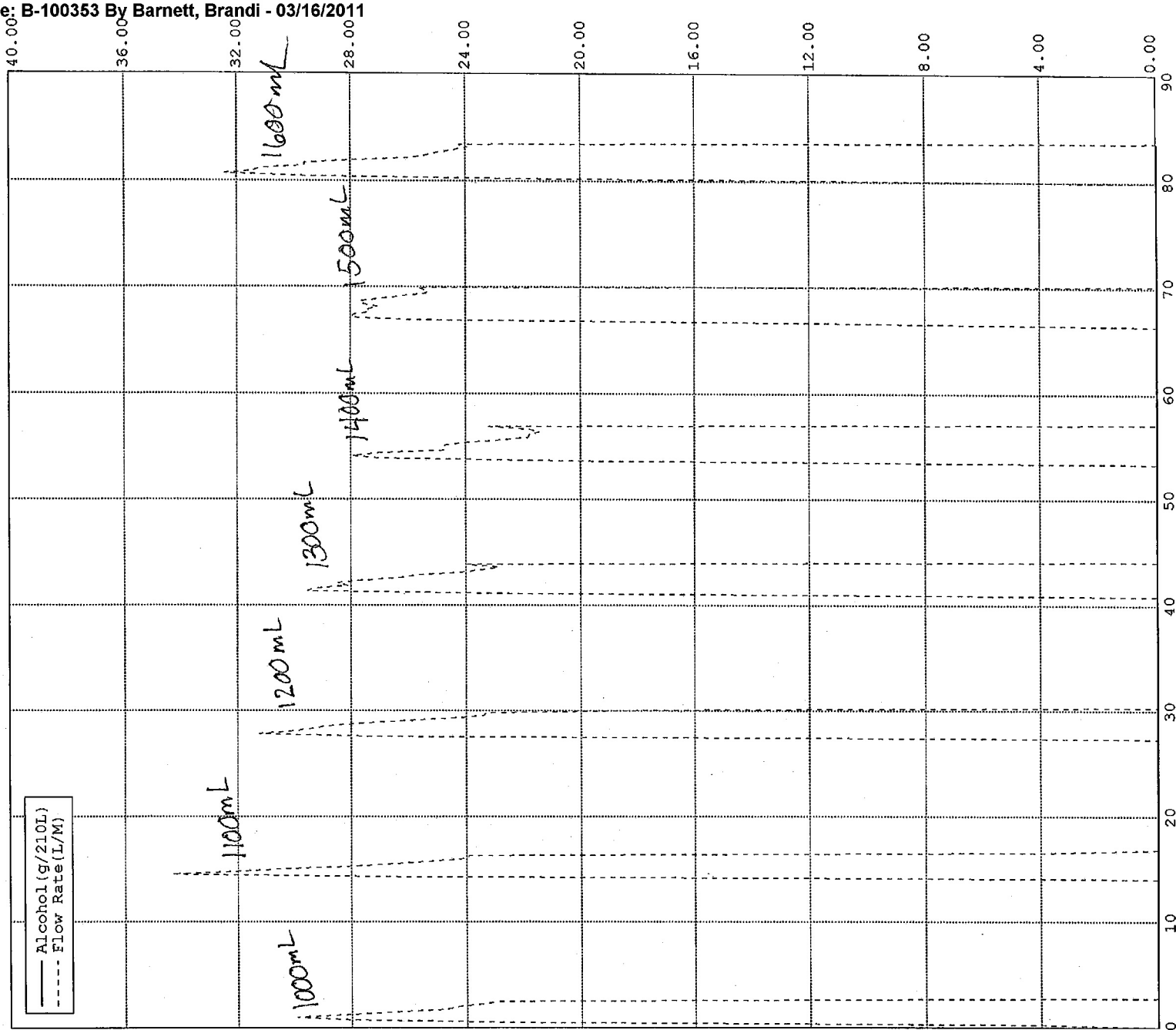
Date: 03/15/2011
Time: 06:51:36

SUPERVISOR NAME;
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2011

Ca = 0.1000
CAL = 0.984793 0.800 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0055 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0894 0.0500 <= Xq < 0.2000
a21 = 1.178135 1.050 <= a21 < 1.300
a31 = 0.526358 0.300 <= a31 < 0.800

4/10/07
BMD



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100353

Date: 03/15/2011
 Time: 10:42:30

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 XXXX

CASE/REPORT: XXXX
 TEST TYPE: TEST

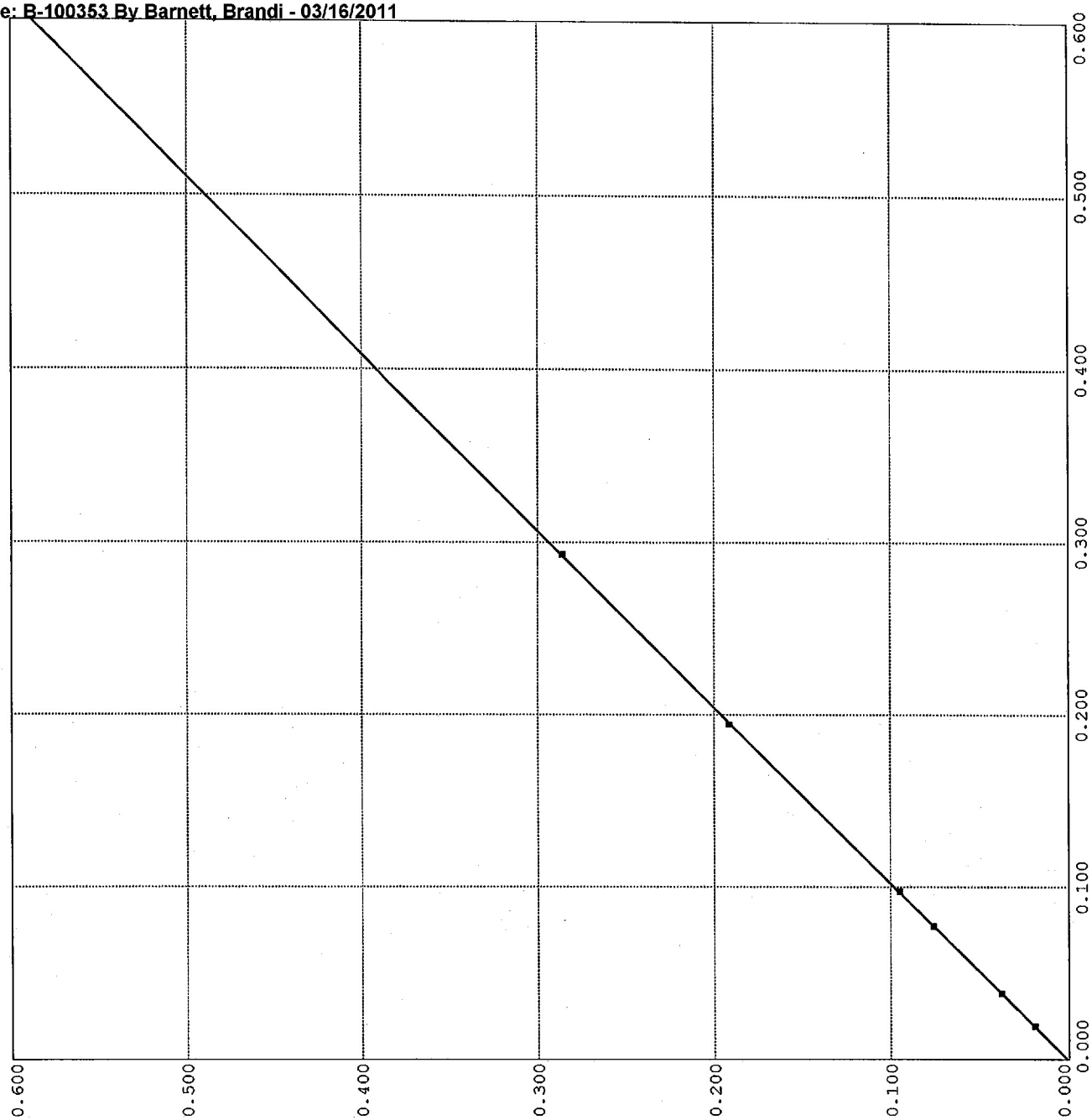
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.19: 0.078
 LOT #: 34409080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	10:43
INTERNAL STANDARD	VERIFIED	10:43
EXTERNAL STANDARD	0.077	10:43
BLANK TEST	0.000	10:44
SUBJECT SAMPLE	0.000	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.077	10:47
BLANK TEST	0.000	10:48

BMB

5/10/2011



LINEARITY CHECK

 Alaska Department of Public Safety
 DATAMASTER dmt: 100353

Date: 03/15/2011
 Time: 13:06:48

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0196	0.0005
0.038	0.0384	0.0005
0.077	0.0768	0.0004
0.097	0.0958	0.0008
0.194	0.1922	0.0004
0.292	0.2866	0.0011

SLOPE = 0.979342
 R² = 0.999985

BrnB
 6/18/08

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100353

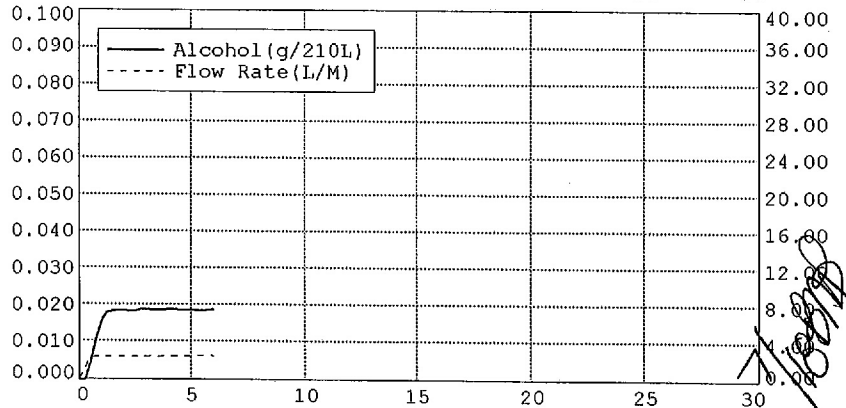
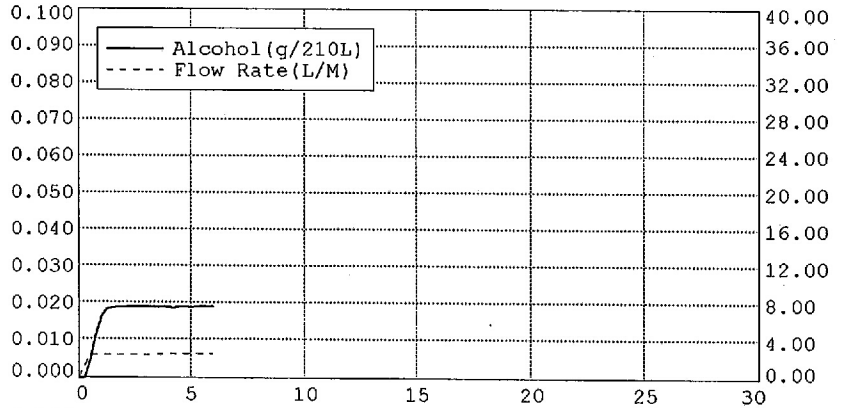
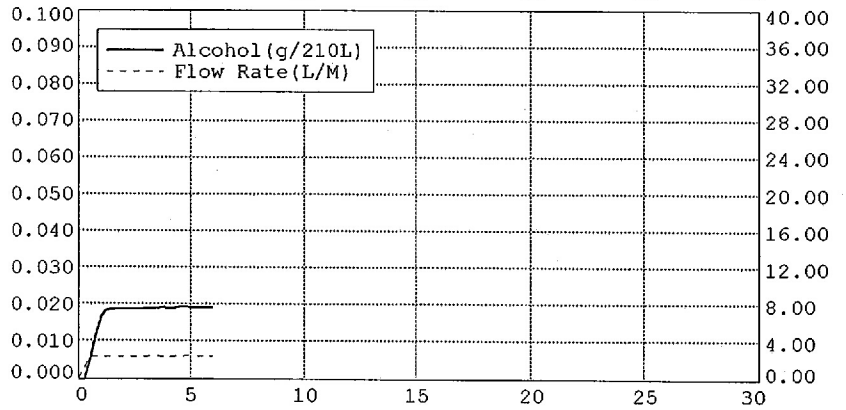
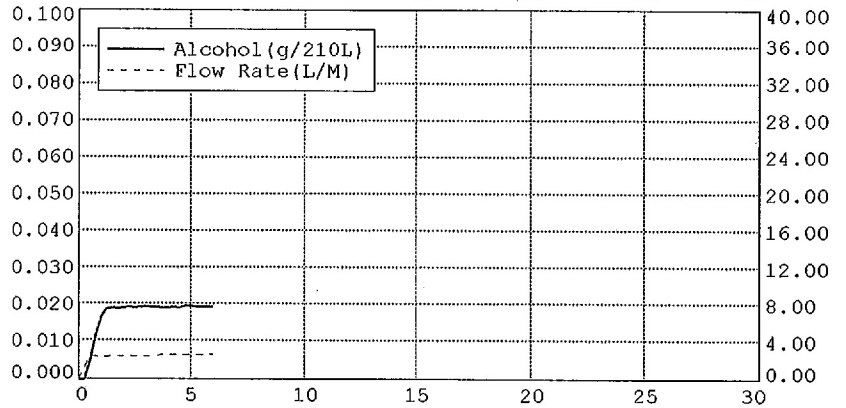
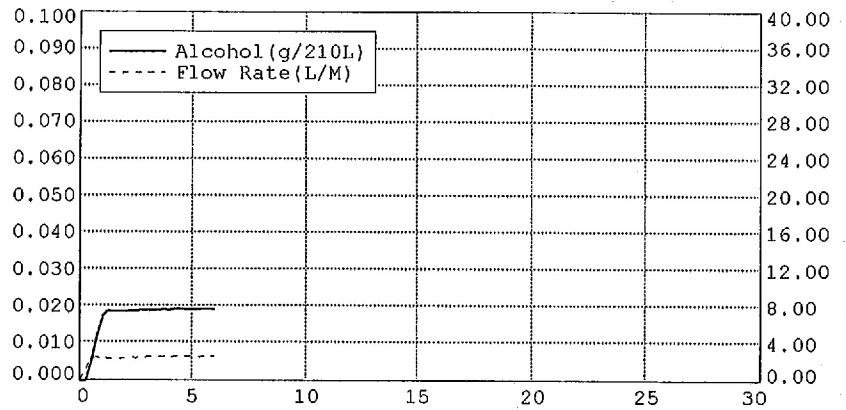
Date: 03/15/2011
Time: 13:06:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.17: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:07
INTERNAL STANDARD	VERIFIED	13:07
EXTERNAL STANDARD	0.019	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.020	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.020	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.020	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.019	13:12
BLANK TEST	0.000	13:13

Average = 0.0196
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

 Alaska Department of Public Safety
 DATAMASTER dmt: 100353

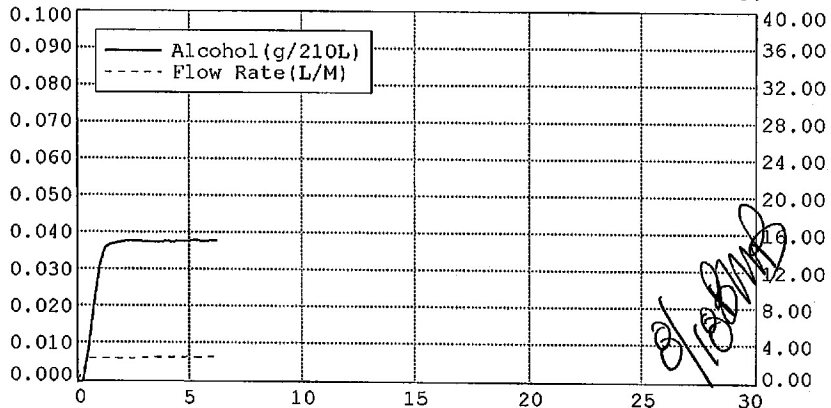
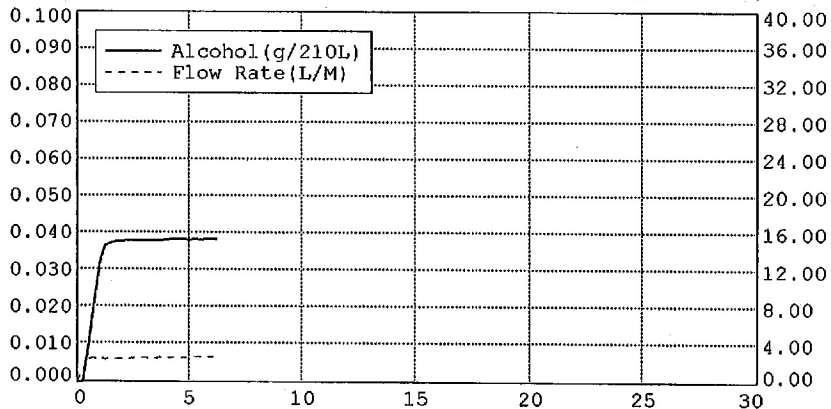
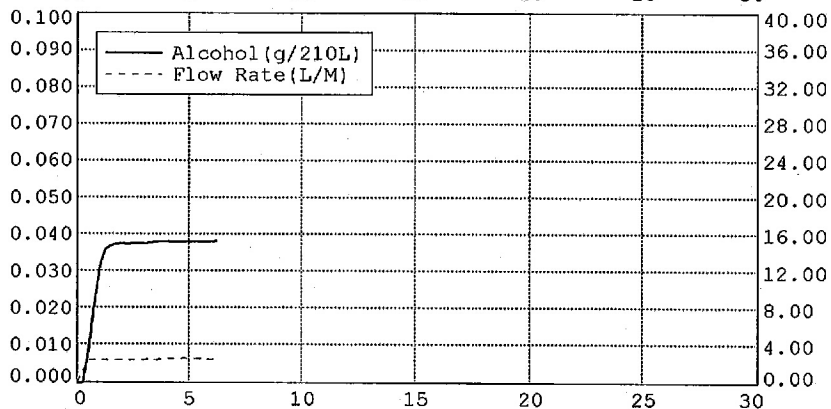
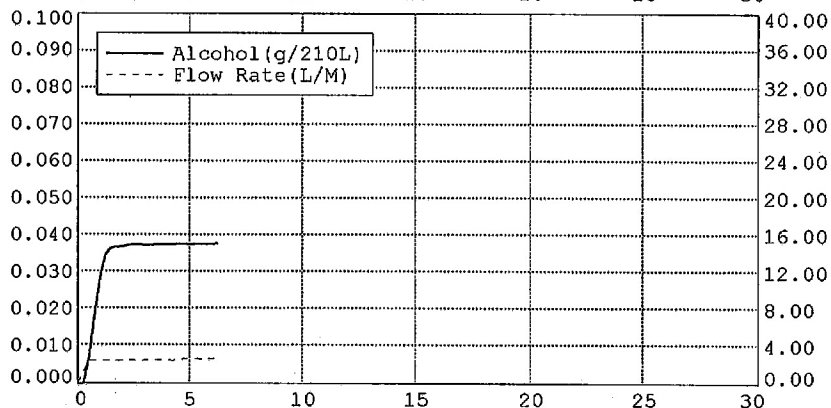
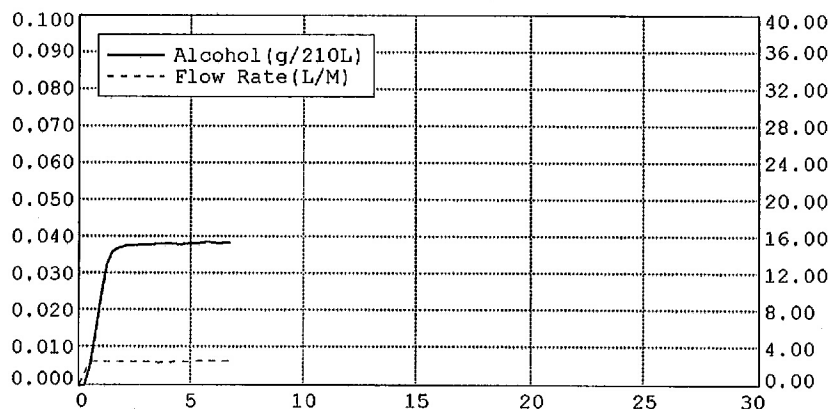
Date: 03/15/2011
 Time: 13:16:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.16: 0.038
 LOT #: 02811040A2
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:19
INTERNAL STANDARD	VERIFIED	13:19
EXTERNAL STANDARD	0.039	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.038	13:21
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.038	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.039	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.038	13:24
BLANK TEST	0.000	13:25

Average = 0.0384
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100353

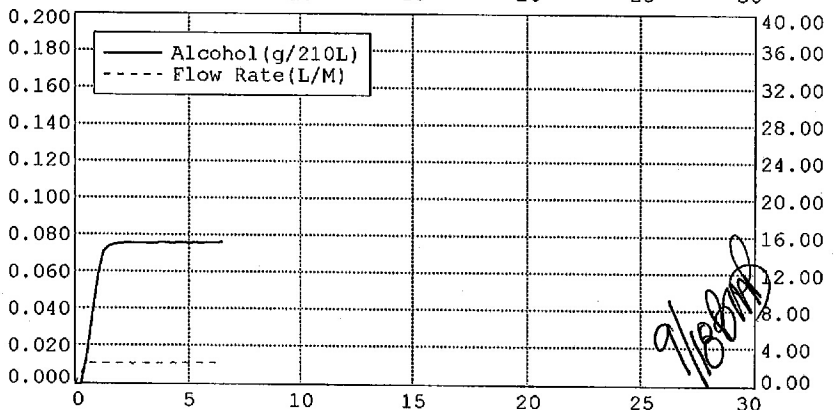
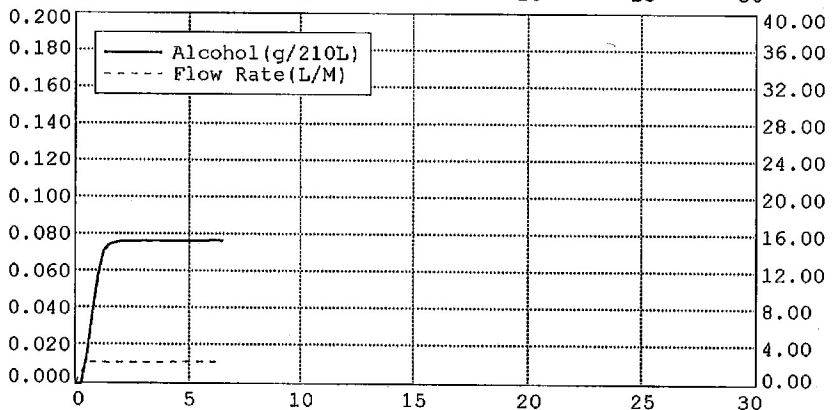
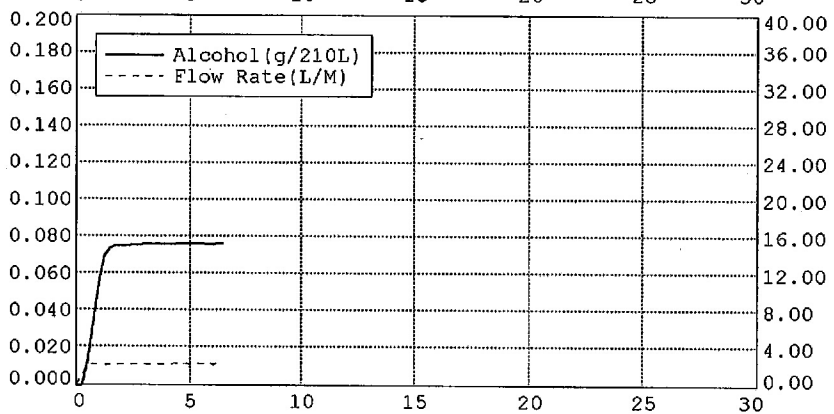
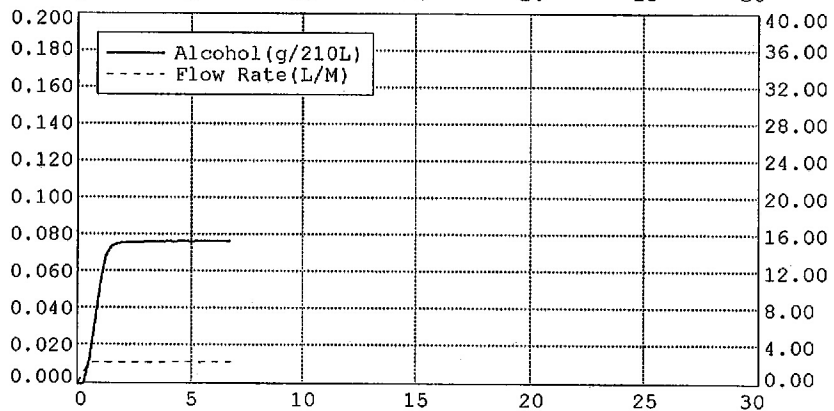
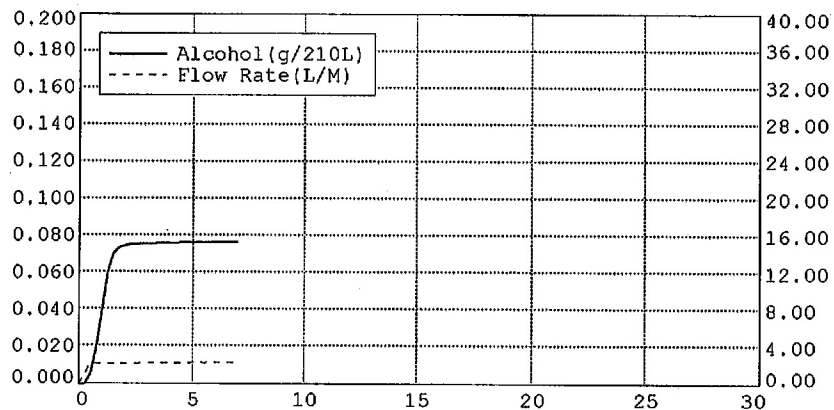
Date: 03/15/2011
Time: 13:28:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.16: 0.077
LOT #: 34409080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	13:29
INTERNAL STANDARD	VERIFIED	13:29
EXTERNAL STANDARD	0.077	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.077	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.076	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.077	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.077	13:33
BLANK TEST	0.000	13:34

Average = 0.0768
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100353

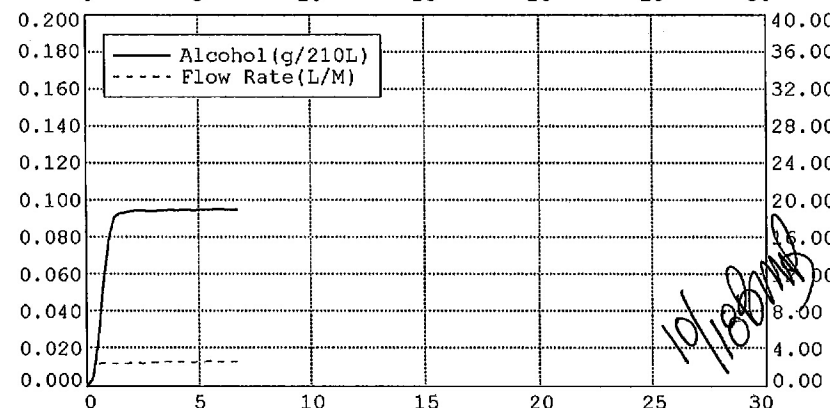
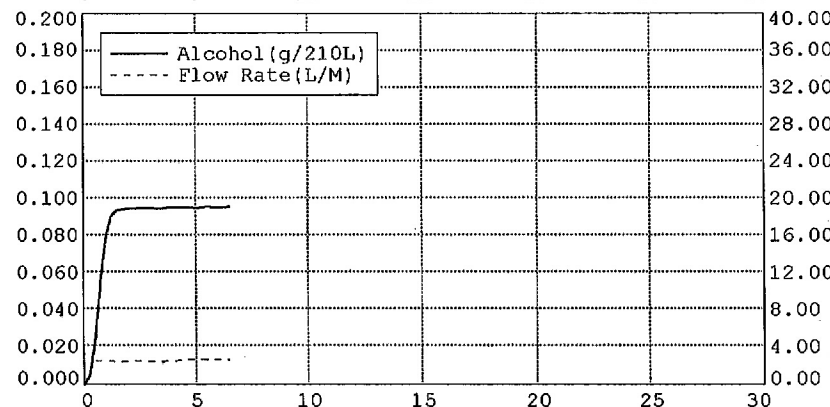
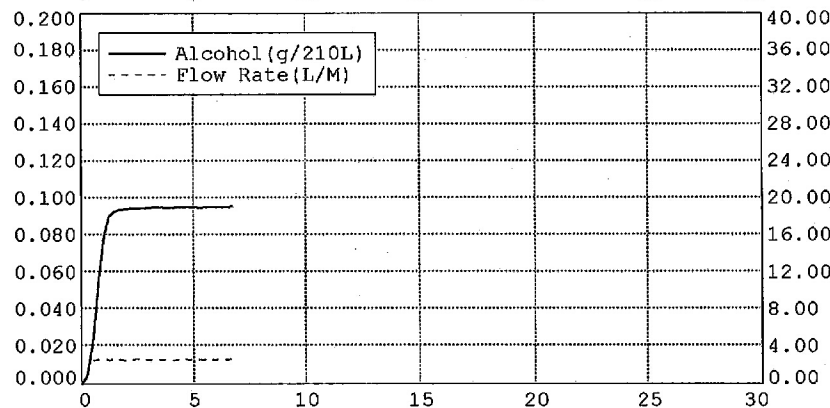
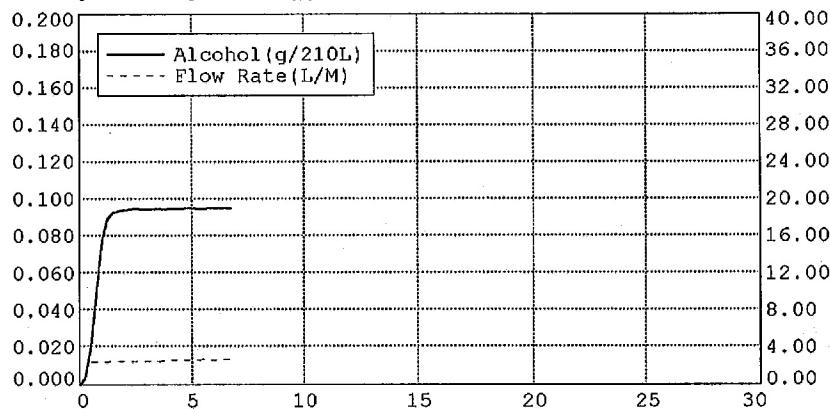
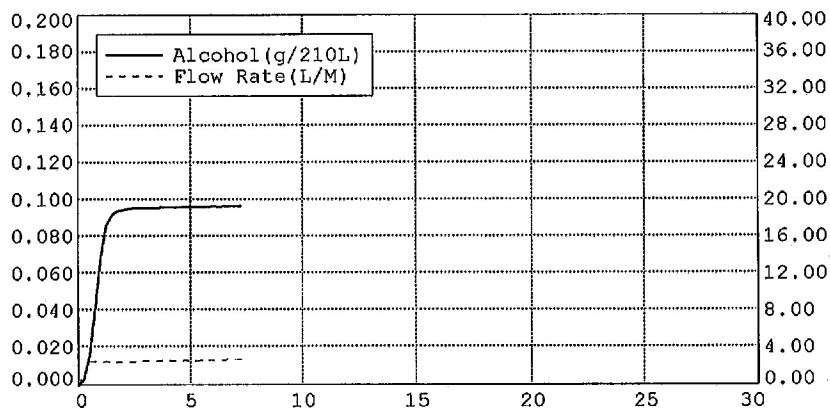
Date: 03/15/2011
Time: 13:35:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.16: 0.097
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:37
INTERNAL STANDARD	VERIFIED	13:37
EXTERNAL STANDARD	0.097	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.095	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.096	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.095	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.096	13:41
BLANK TEST	0.000	13:42

Average = 0.0958
Std Dev = 0.0008



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100353

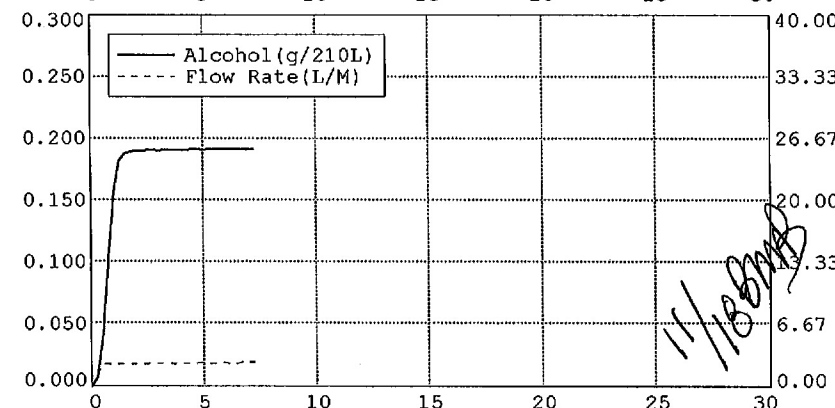
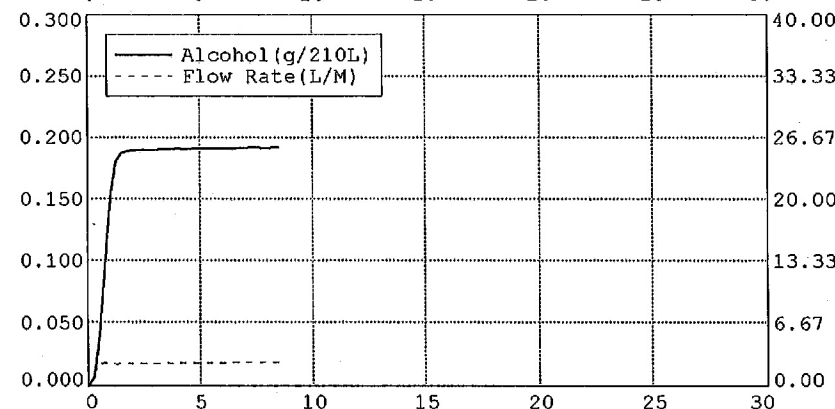
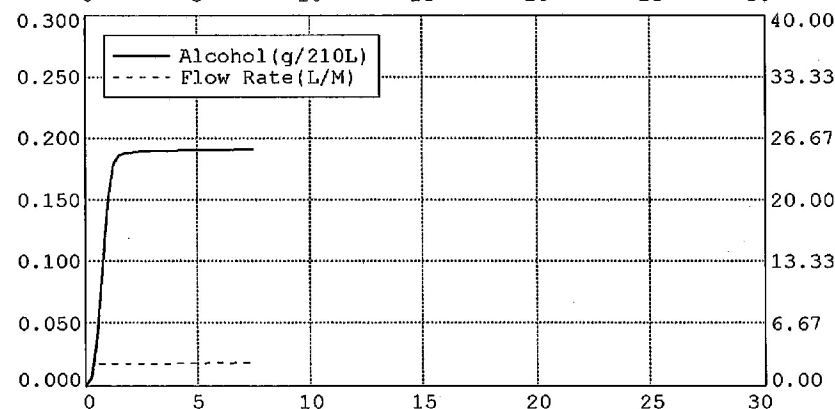
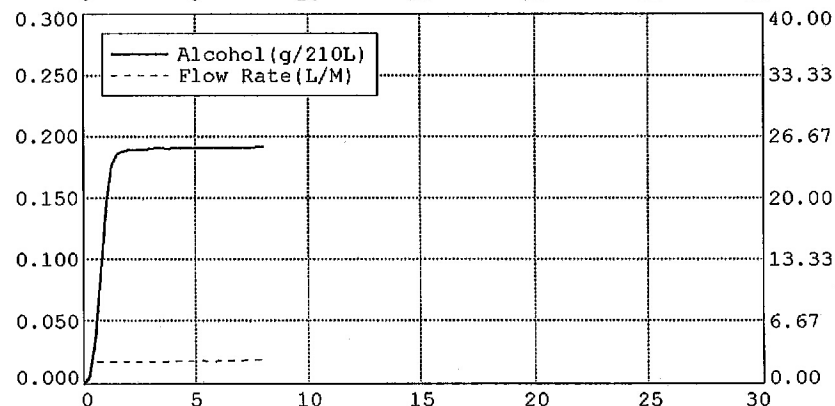
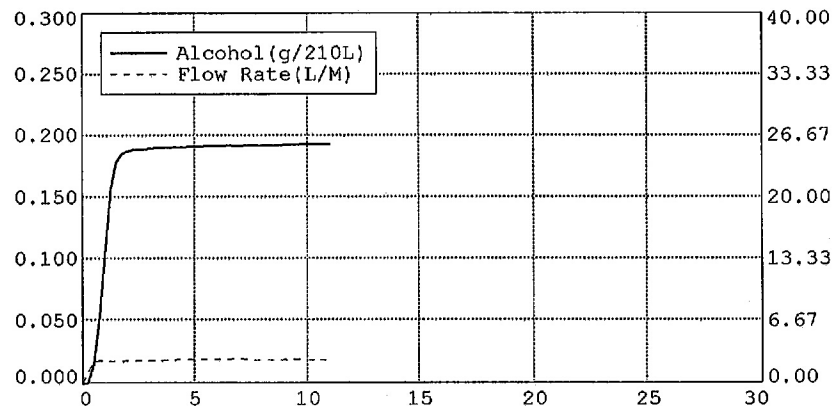
Date: 03/15/2011
Time: 13:46:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.15: 0.194
LOT #: 05611200A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:49
INTERNAL STANDARD	VERIFIED	13:49
EXTERNAL STANDARD	0.193	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.192	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.192	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.192	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.192	13:54
BLANK TEST	0.000	13:55

Average = 0.1922
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100353

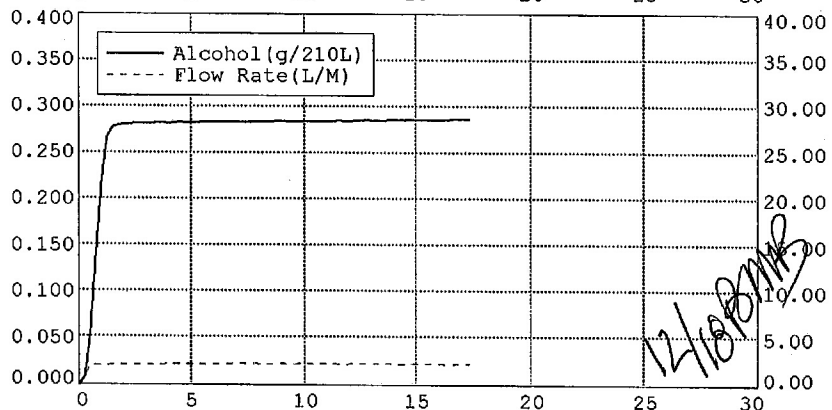
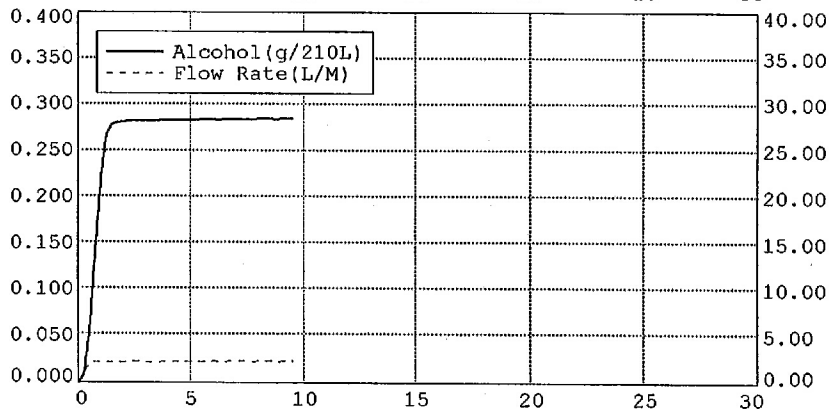
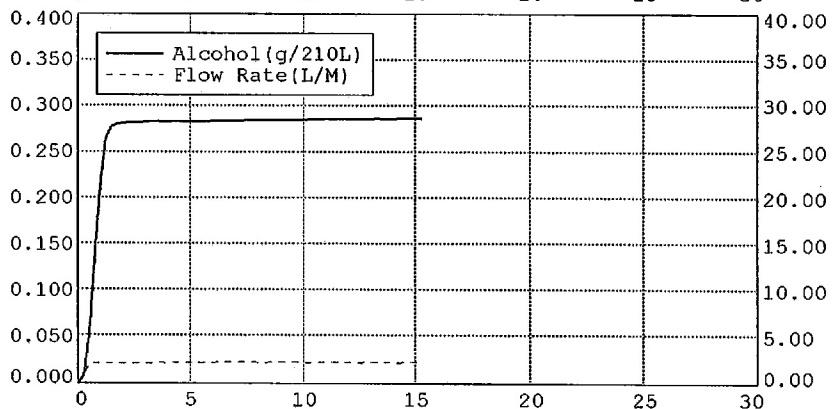
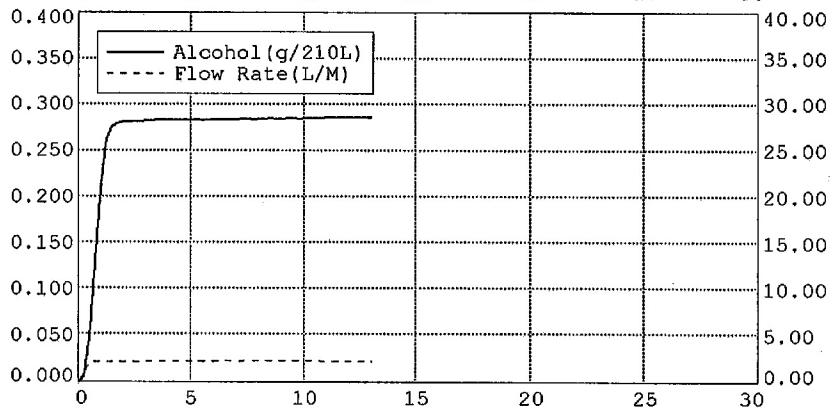
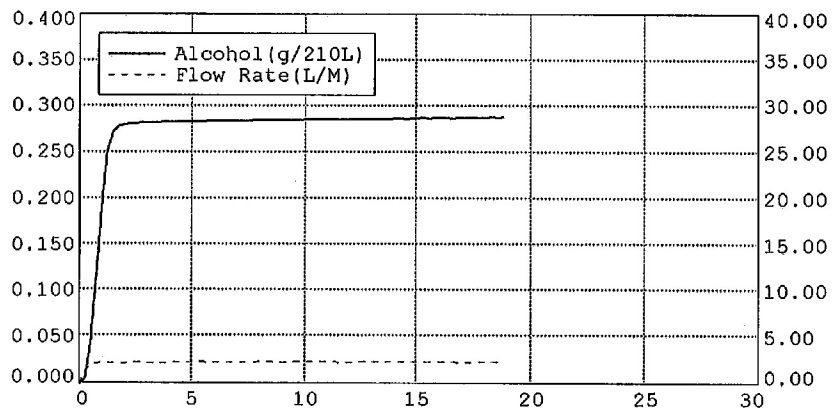
Date: 03/15/2011
Time: 14:16:18

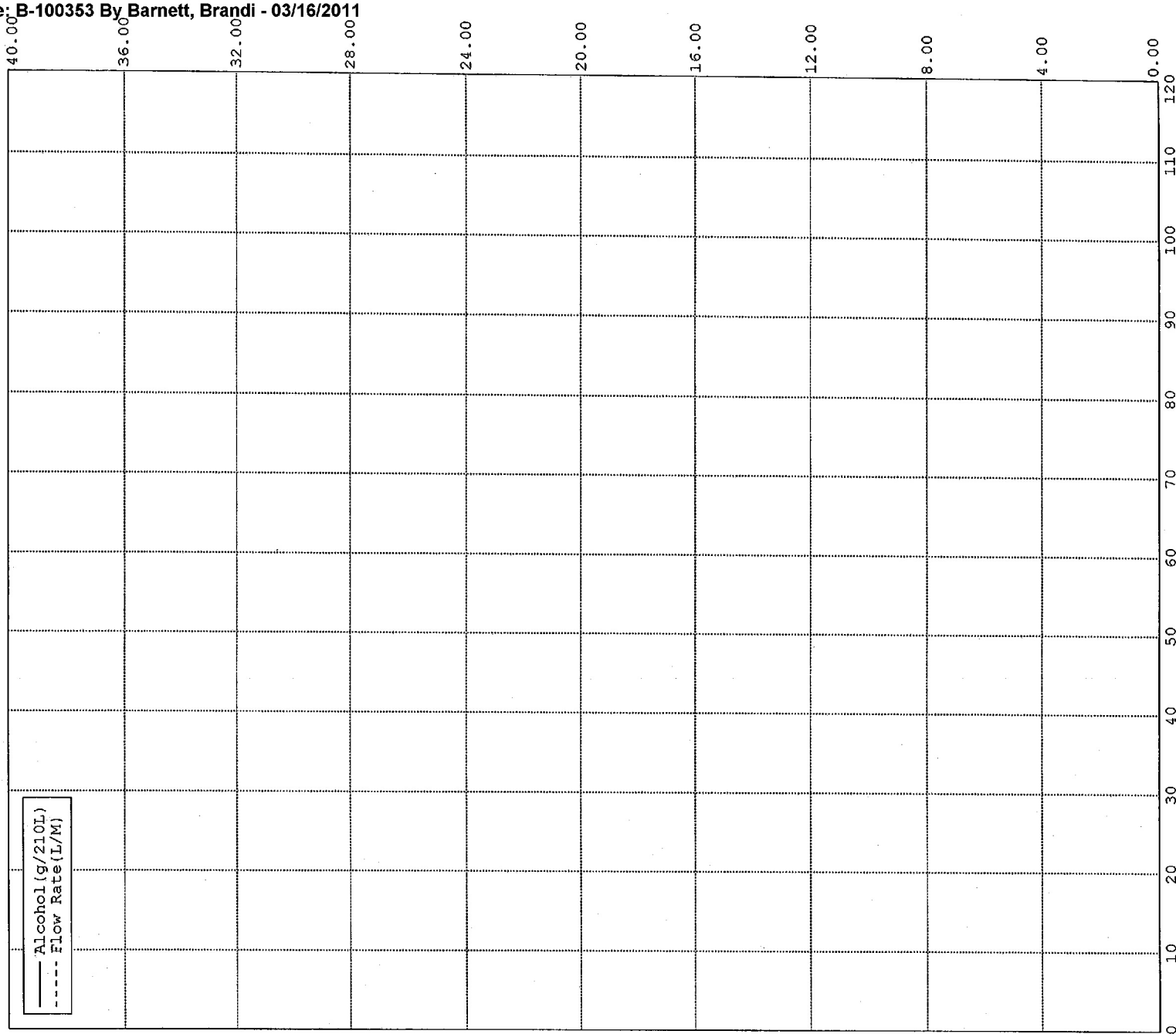
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.14: 0.292
LOT #: 05611300A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:17
INTERNAL STANDARD	VERIFIED	14:17
EXTERNAL STANDARD	0.288	14:17
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.286	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.287	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.285	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.287	14:23
BLANK TEST	0.000	14:24

Average = 0.2866
Std Dev = 0.0011





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 03/15/2011
Time: 15:13:21

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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

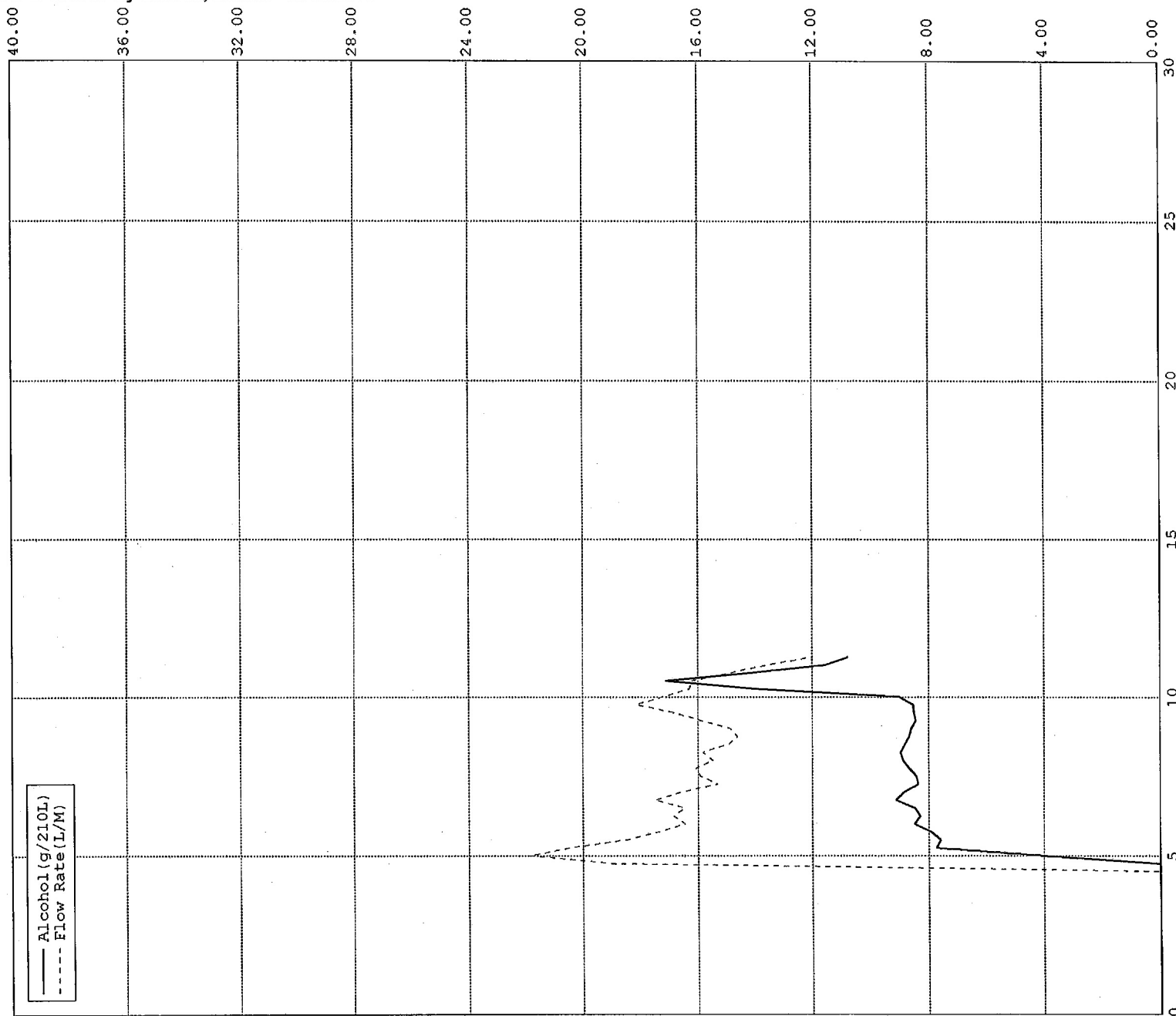
DEPT/AGENCY:
XXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.13: 0.077
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK PASSED 15:14
BLANK TEST 0.000 15:14
INTERNAL STANDARD VERIFIED 15:14
EXTERNAL STANDARD 0.078 15:14
BLANK TEST 0.000 15:15
SUBJECT SAMPLE INCOMPLETE 15:17

BIB

13/15/2011



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100353

Date: 03/15/2011
 Time: 15:21:28

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

OPERATOR NAME:
 KNOWN MOUTH ALCOHOL
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 XXXX

CASE/REPORT: XXXX
 TEST TYPE: TEST

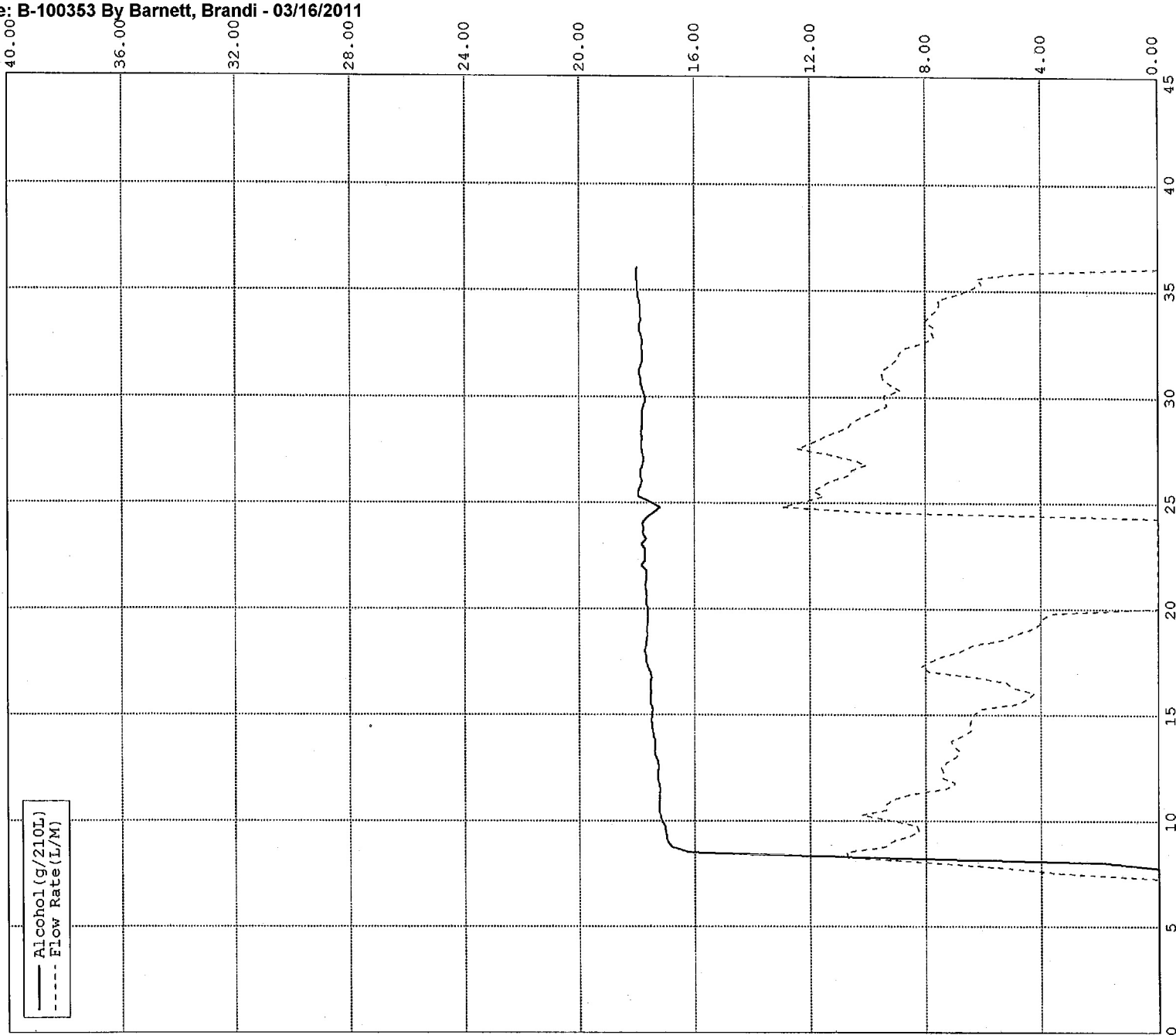
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.13: 0.077
 LOT #: 34409080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	15:22
BLANK TEST	0.000	15:22
INTERNAL STANDARD	VERIFIED	15:22
EXTERNAL STANDARD	0.078	15:23
BLANK TEST	0.000	15:24
SUBJECT SAMPLE	Invalid	15:24

BMB

14/1000



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100353

Date: 03/15/2011
 Time: 15:26:27

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

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

DEPT/AGENCY:

XXX

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

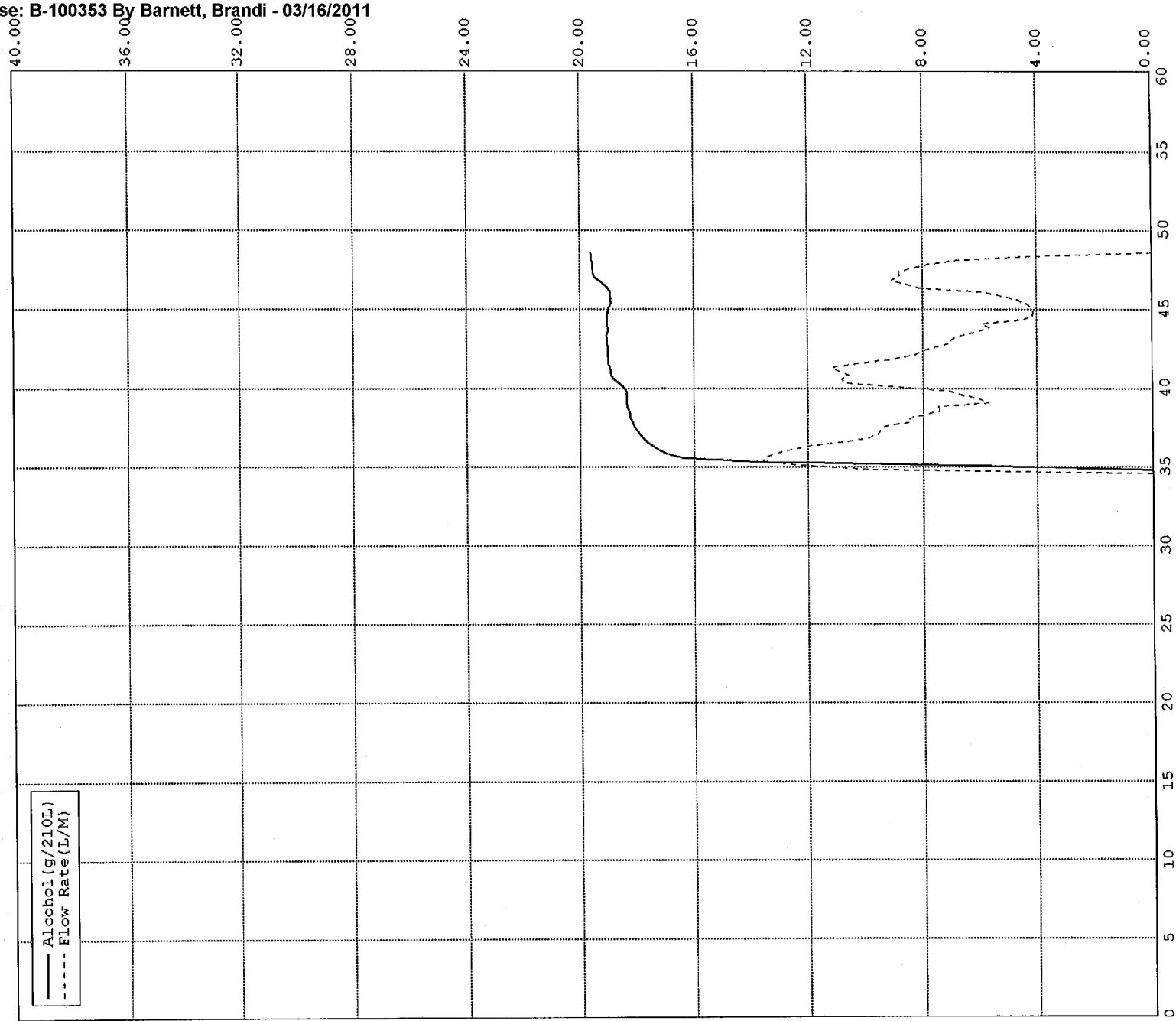
TARGET AT 29.12: 0.077

LOT #: 34409080A1

EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	15:27
BLANK TEST	0.000	15:28
INTERNAL STANDARD	VERIFIED	15:28
EXTERNAL STANDARD	0.077	15:28
BLANK TEST	0.000	15:29
SUBJECT SAMPLE	INTERFERENCE	15:29

Handwritten signature: BNP
Handwritten date: 15/18/2011



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100353

Date: 03/15/2011
 Time: 15:33:10

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

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

DEPT/AGENCY:
 XXXX

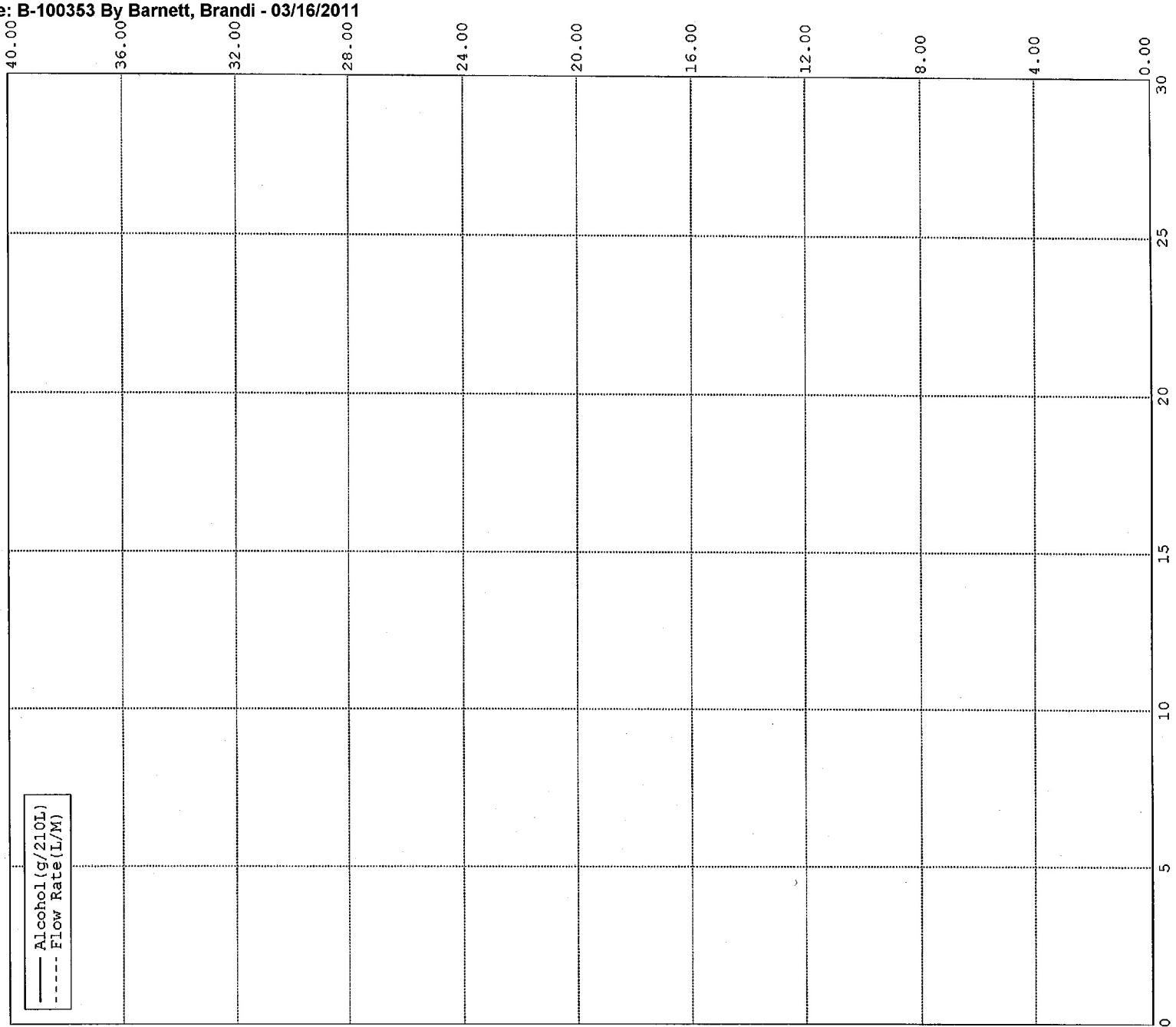
CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.12: 0.077
 LOT #: 34409080A1
 EXPIRATION: 01/01/2012

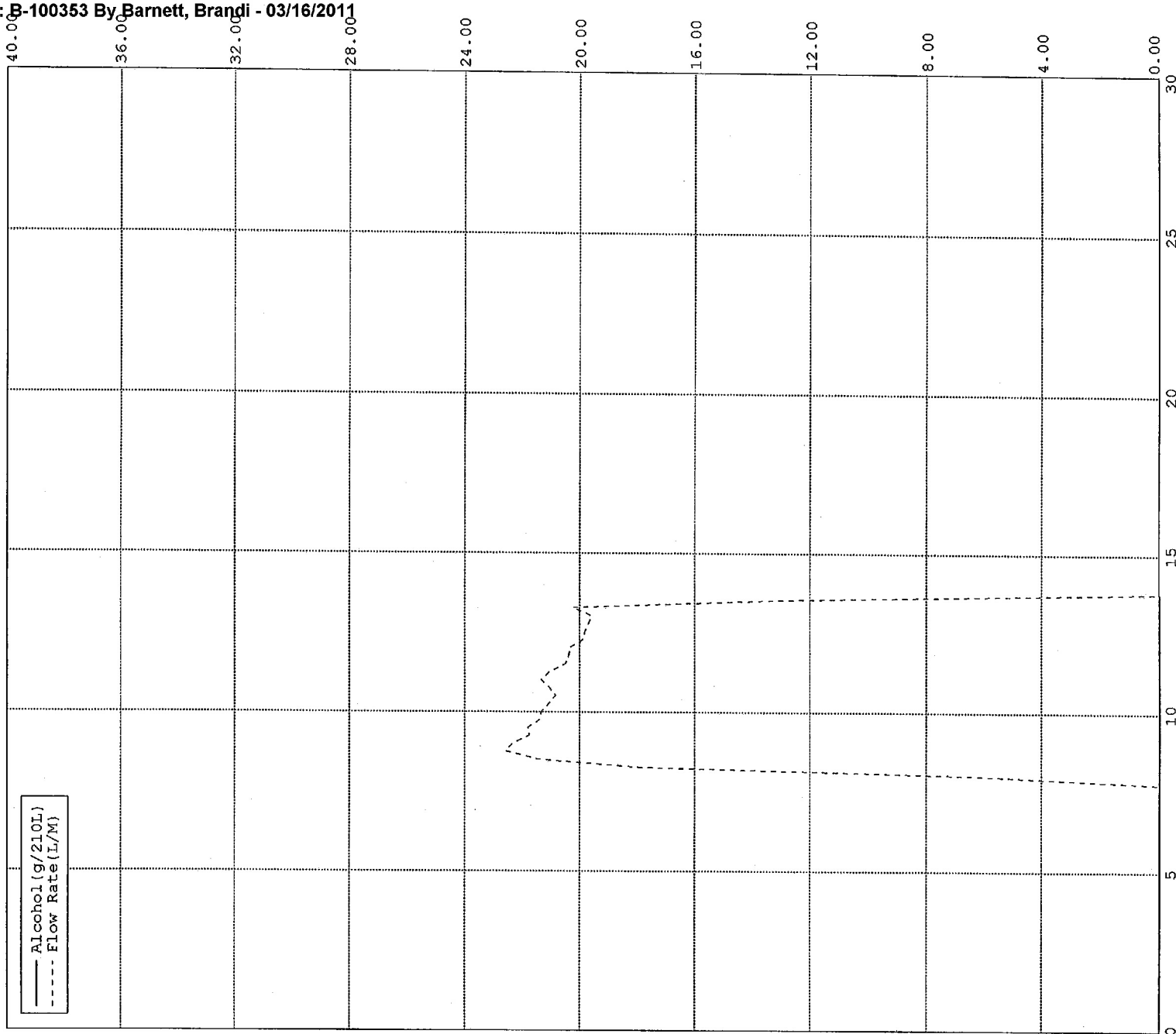
DIAGNOSTIC CHECK	PASSED	15:34
BLANK TEST	0.000	15:34
INTERNAL STANDARD	VERIFIED	15:34
EXTERNAL STANDARD	0.077	15:34
BLANK TEST	0.000	15:35
SUBJECT SAMPLE	INTERFERENCE	15:36

BMB
 16/180MB



SUBJECT TEST
Alaska Department of Public Safety DATAMASTER dmt: 100353 Date: 03/15/2011 Time: 15:44:10 SUBJECT NAME: TEST TEST LICENSE #: XXXX OPERATOR NAME: RADIO FREQUENCY INTERFERE OPERATOR'S #: XXXX DEPT/AGENCY: XXXX CASE/REPORT: XXXX TEST TYPE: TEST EXTERNAL STANDARD INFORMATION NOMINAL: 0.080 TARGET AT 29.12: 0.077 LOT #: 34409080A1 EXPIRATION: 01/01/2012 DIAGNOSTIC CHECK PASSED 15:45 BLANK TEST 0.000 15:45 INTERNAL STANDARD VERIFIED 15:45 EXTERNAL STANDARD 0.078 15:45 BLANK TEST 0.000 15:46 RFI Detected

171/100353



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100353

Date: 03/16/2011
Time: 10:20:11

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 29.12: 0.077
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	10:21
BLANK TEST	0.000	10:21
INTERNAL STANDARD	VERIFIED	10:21
EXTERNAL STANDARD	0.078	10:21
BLANK TEST	0.000	10:22
SUBJECT SAMPLE	0.000	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.077	10:24
BLANK TEST	0.000	10:25

Brandi Barnett

10/10/2011