	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 # 100366Analyst Brandi BarnettDate 3/24/11

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 02811020A1 Exp 02/01/2013
- ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013
- iii. 0.080g/210L Mnf ILMO Lot 34409080A1 Exp 01/01/2012
- iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 03/01/2013
- v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 3/1/2013
- 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 8/4/2010 SN SD1202

- d. RFI ☒

7. Calibrate Stylus ☒
8. Verify card reader is functional ☒
9. Upload ☒
10. Reset Options ☒
11. Non-Drinking Subject Test (attached)

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 03/24/2011
Time: 10:50:42

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 47.3°C	PASSED

PUMP INFO

Flow Rate = 4.309 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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2/188MB

Technician Screen

DATAMASTER dmt: 100366
-----Date: 03/24/2011
Time: 10:57 AM

Temperatures (°C)

Sample Cell: 49.4°C
Breath Tube: 46.3°CCurrent Barometer 29.5 in
Volume (Ltr) 1.48

Settings

Lamp: 2.28 V
Bias: 80 V
Cooler: 1.99 V
Chopper: 536 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.494 V3/18/11
BMP

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 03/22/2011
Time: 11:48:02

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

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

Ca	=	0.1000	
CAL	=	0.985254	0.800 <= CAL < 1.200
b1	=	0.0000	0.0000 <= b1 < 0.0040
b2	=	0.0054	0.0010 <= b2 < 0.0100
b3	=	0.0000	0.0000 <= b3 < 0.0040
Xq	=	0.1000	0.0500 <= Xq < 0.2000
a21	=	1.200050	1.050 <= a21 < 1.300
a31	=	0.503220	0.300 <= a31 < 0.800

4/18/08

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100366

Date: 03/24/2011
Time: 11:00:40

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

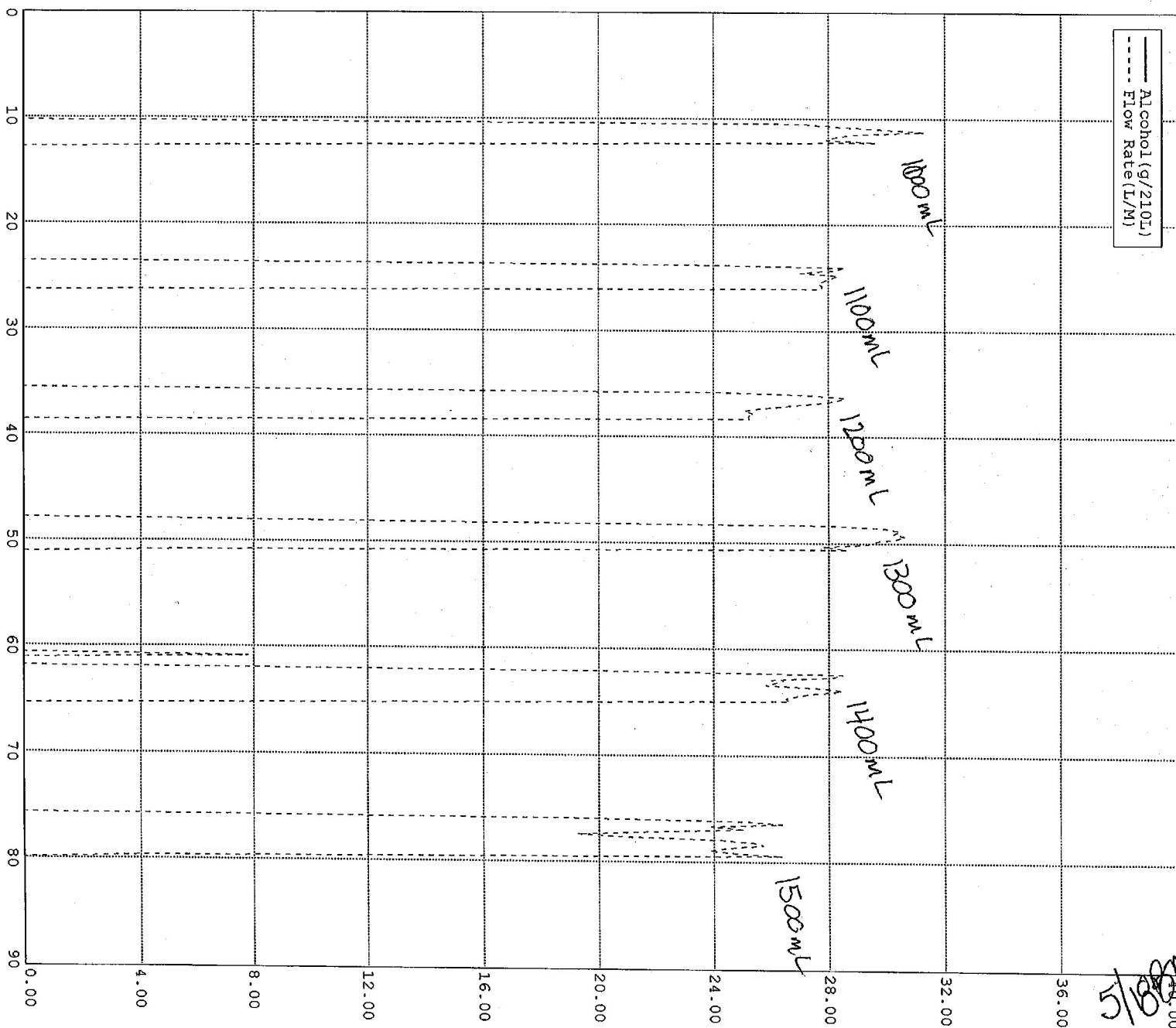
OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.51: 0.078
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	11:02
BLANK TEST	0.000	11:02
INTERNAL STANDARD	VERIFIED	11:02
EXTERNAL STANDARD	0.080	11:02
BLANK TEST	0.000	11:03
SUBJECT SAMPLE	0.000	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.080	11:06
BLANK TEST	0.000	11:07

BMB



15/1882B

0.600
0.500
0.400
0.300
0.200
0.100
0.000

0.600
0.500
0.400
0.300
0.200
0.100
0.000

LINEARITY CHECK			
----- Alaska Department of Public Safety DATAMASTER dmt: 100366 ----- Date: 03/24/2011 Time: 11:12:49 ----- SUPERVISOR NAME: BRANDI M BARNETT OPERATOR'S #: 7038 -----			
TARGET	AVERAGE	STD. DEV.	
0.019	0.0208	0.0004	
0.039	0.0398	0.0004	
0.078	0.0800	0.0000	
0.098	0.0994	0.0005	
0.197	0.1974	0.0005	
0.295	0.2948	0.0013	
SLOPE		= 0.993308	
R ²		= 0.999990	

BM

4/10/11

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100366

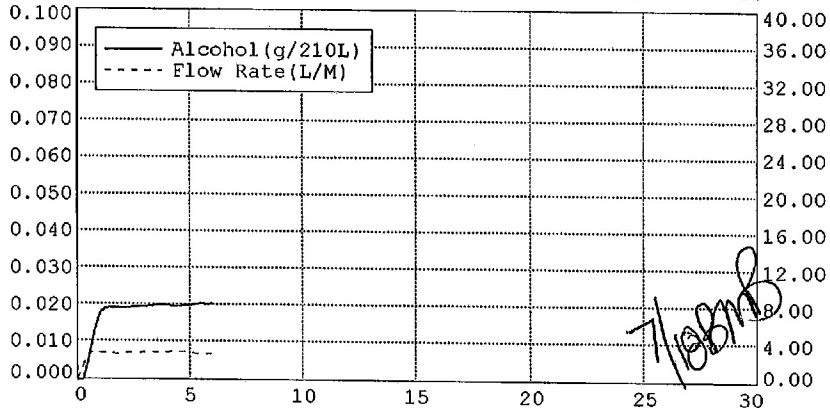
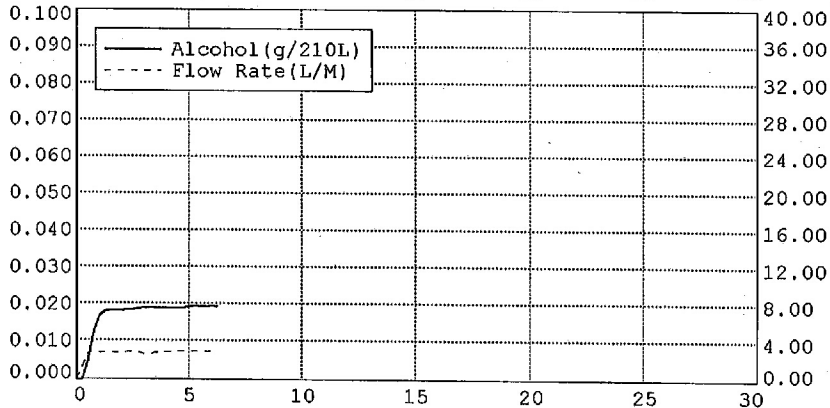
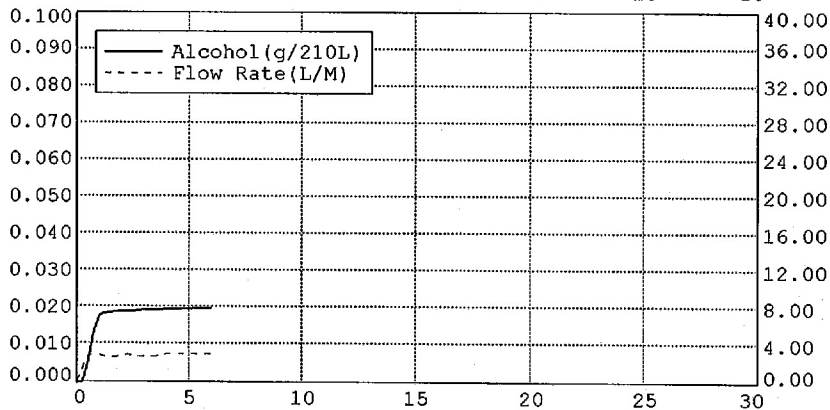
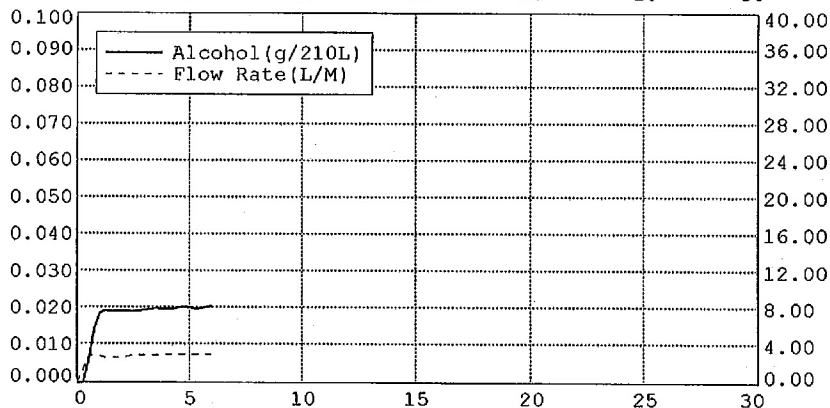
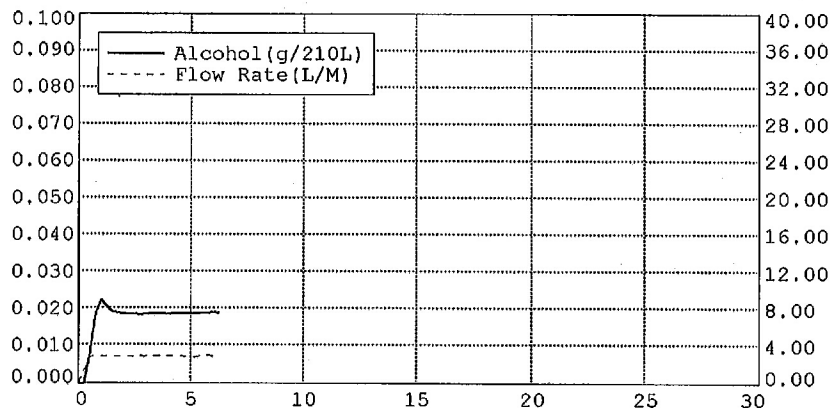
Date: 03/24/2011
Time: 11:12:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.51: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:14
INTERNAL STANDARD	VERIFIED	11:14
EXTERNAL STANDARD	0.020	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.021	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.021	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.021	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.021	11:18
BLANK TEST	0.000	11:19

Average = 0.0208
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

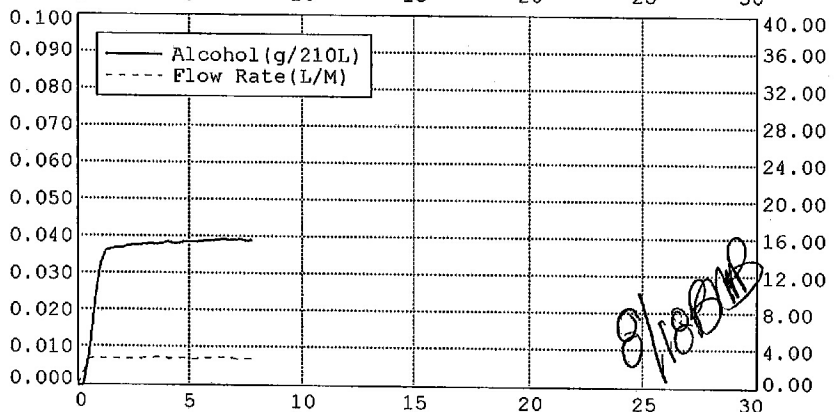
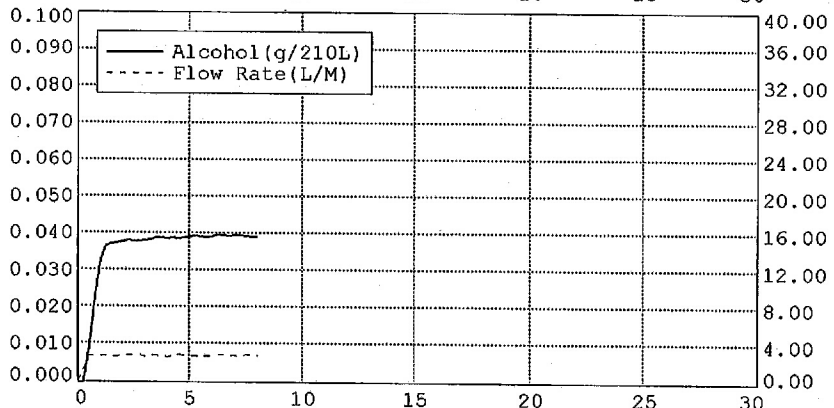
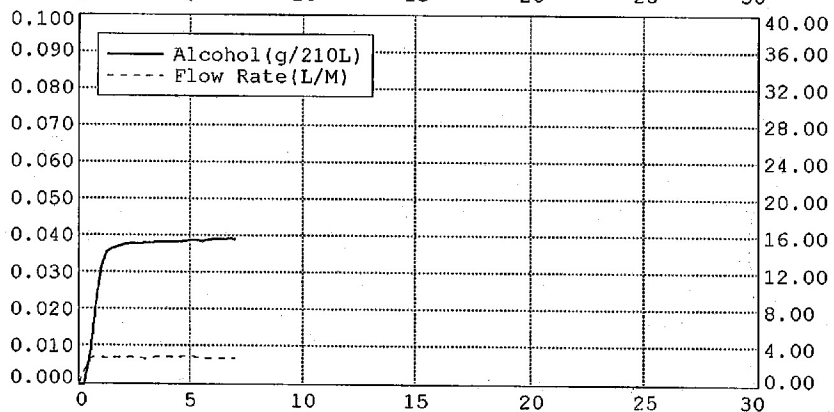
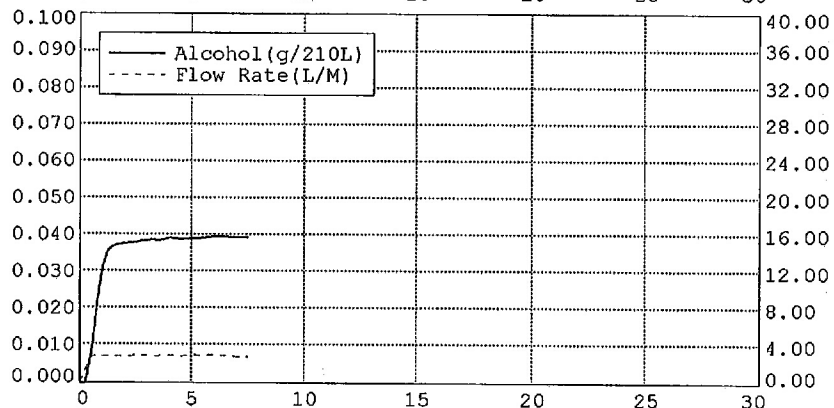
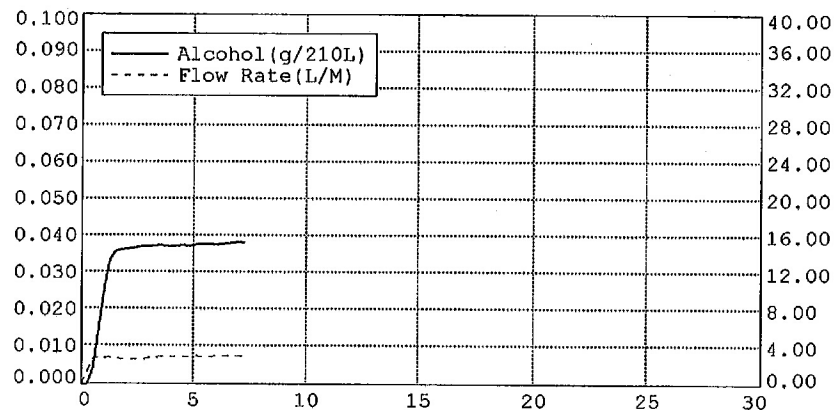
Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 03/24/2011
Time: 11:28:23

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.51: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:29
INTERNAL STANDARD	VERIFIED	11:29
EXTERNAL STANDARD	0.039	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.040	11:30
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.040	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.040	11:33
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.040	11:34
BLANK TEST	0.000	11:35

Average = 0.0398
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100366

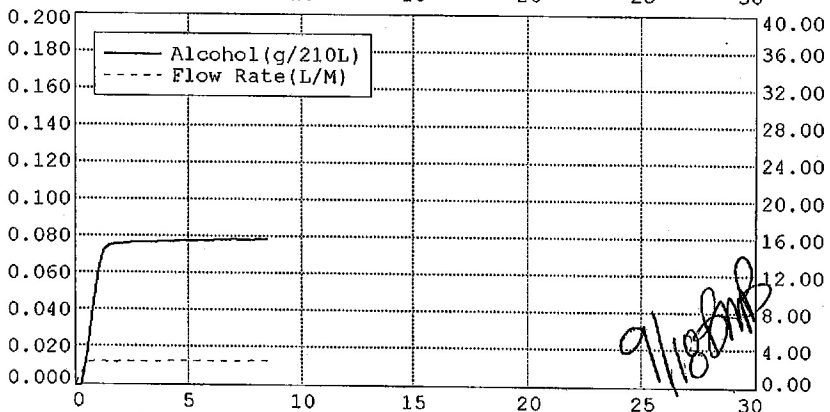
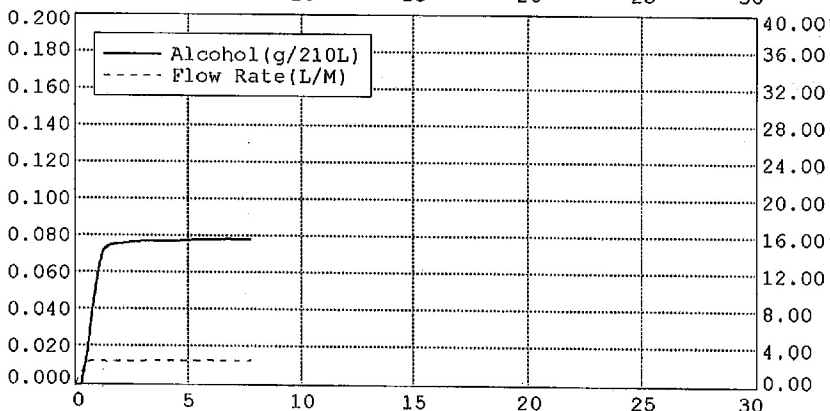
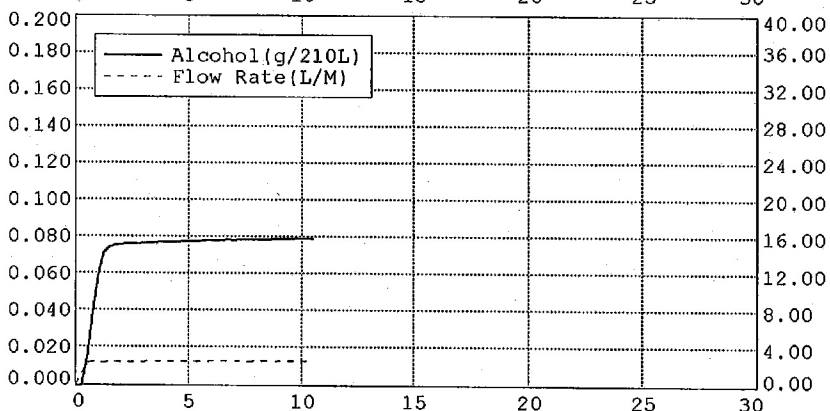
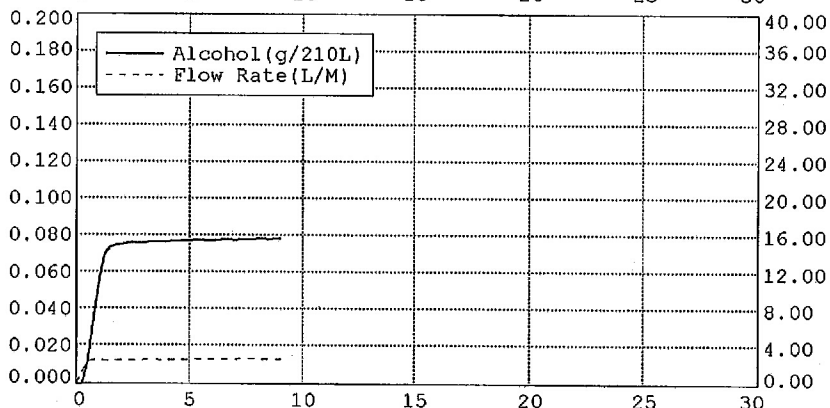
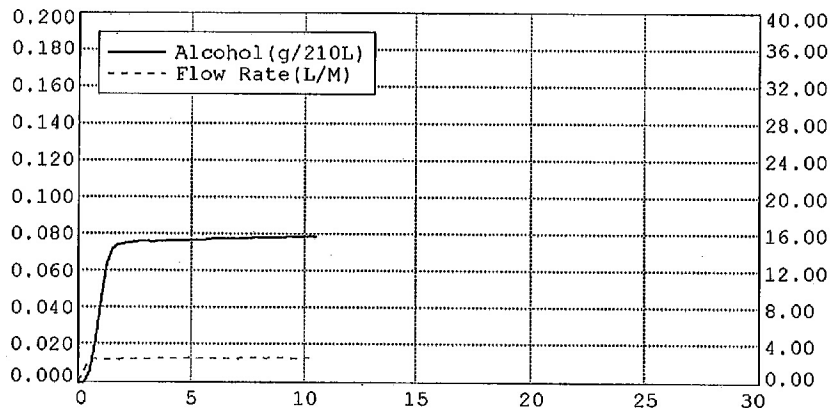
Date: 03/24/2011
Time: 11:40:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.51: 0.078
LOT #: 34409080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	11:41
INTERNAL STANDARD	VERIFIED	11:41
EXTERNAL STANDARD	0.080	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.080	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.080	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.080	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.080	11:47
BLANK TEST	0.000	11:47

Average = 0.0800
Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt; 100366

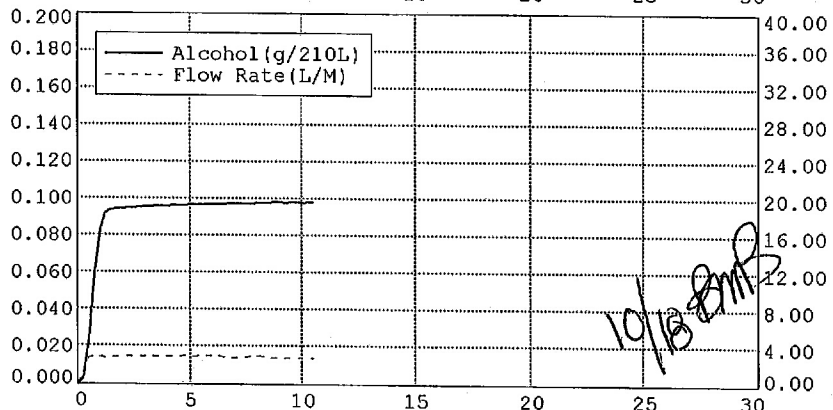
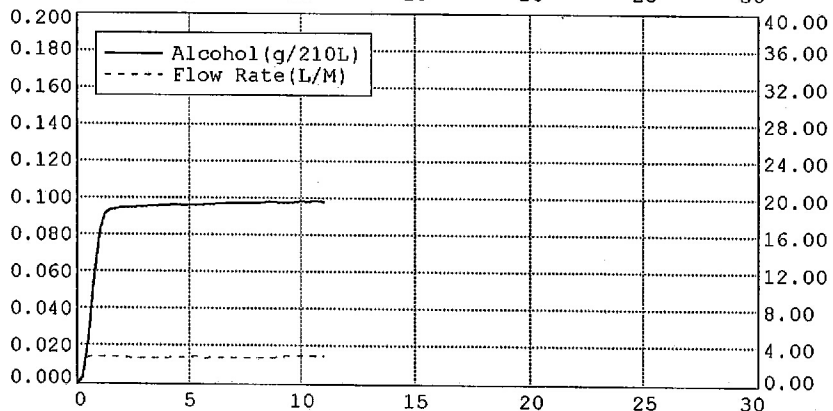
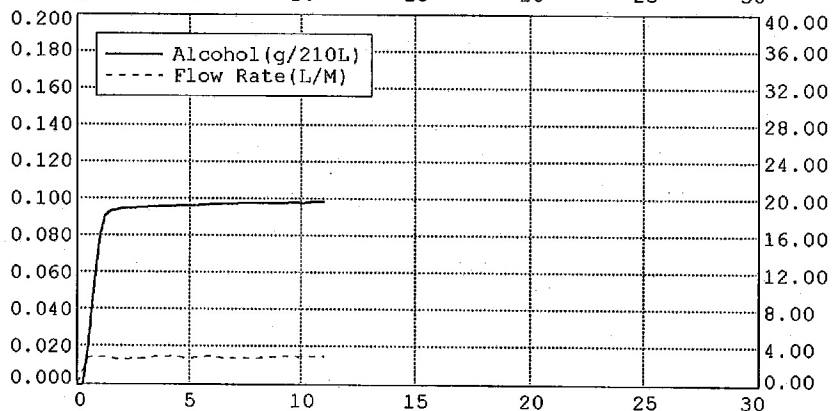
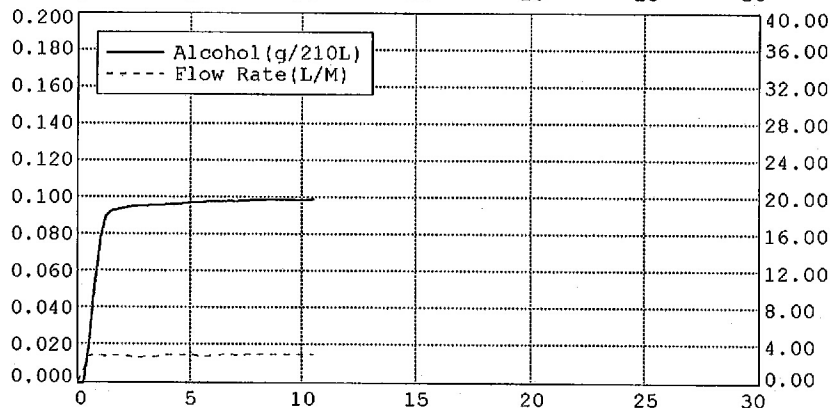
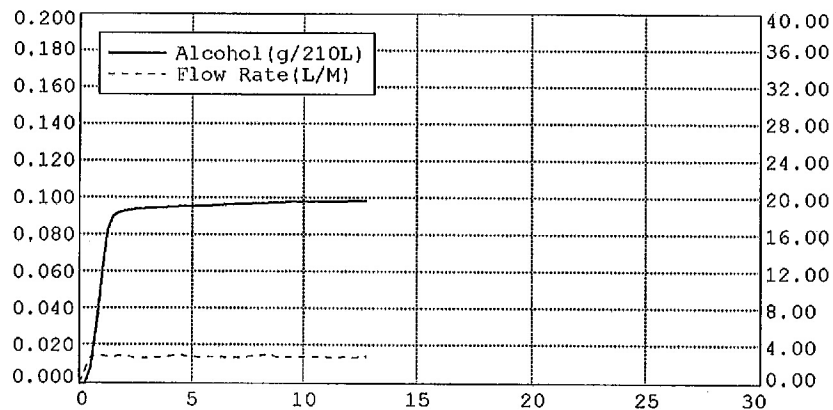
Date: 03/24/2011
Time: 12:57:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.48: 0.098
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:58
INTERNAL STANDARD	VERIFIED	12:58
EXTERNAL STANDARD	0.100	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.099	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.100	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.099	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.099	13:04
BLANK TEST	0.000	13:05

Average = 0.0994
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100366

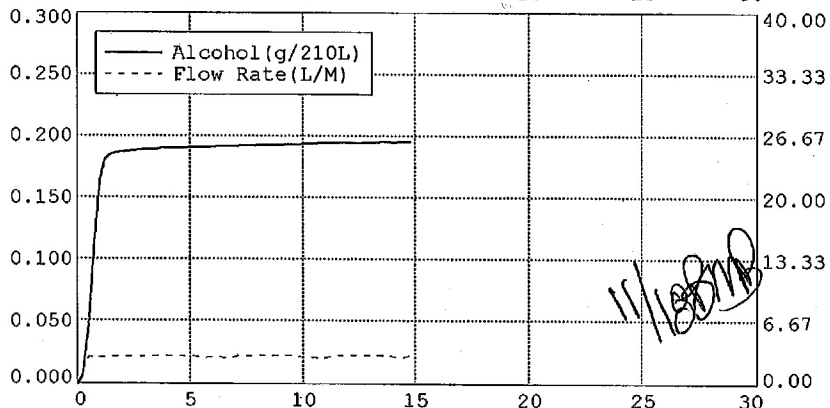
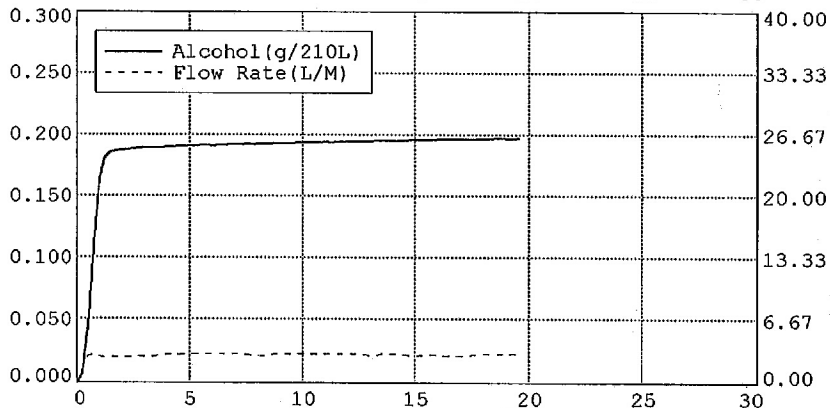
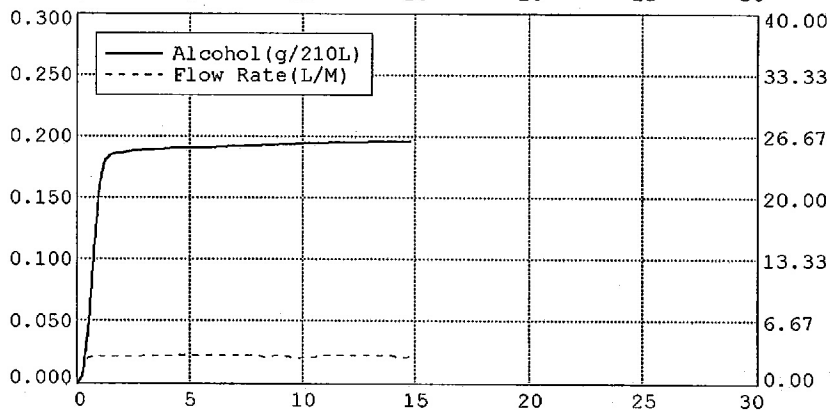
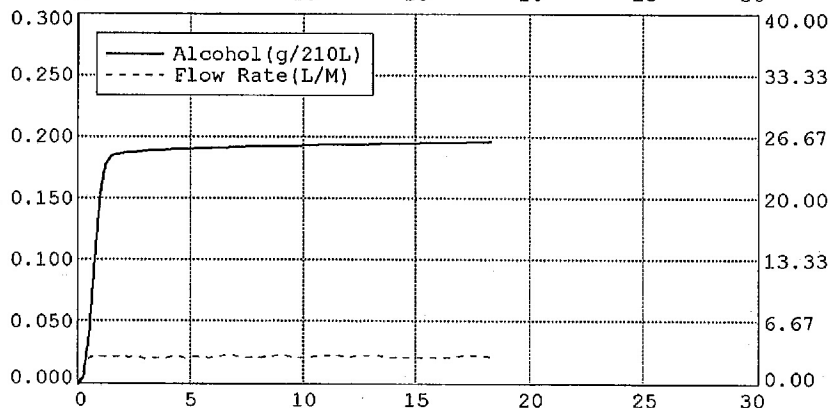
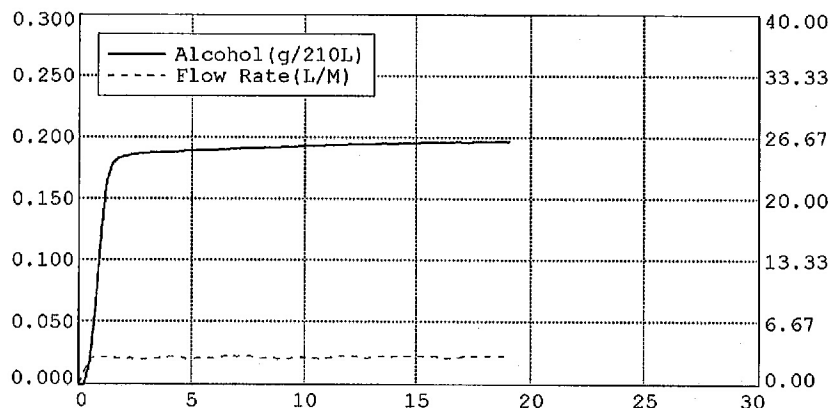
Date: 03/24/2011
Time: 13:09:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.48; 0.197
LOT #: 07411200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:10
INTERNAL STANDARD	VERIFIED	13:10
EXTERNAL STANDARD	0.198	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.197	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.197	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.198	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.197	13:17
BLANK TEST	0.000	13:19

Average = 0.1974
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100366

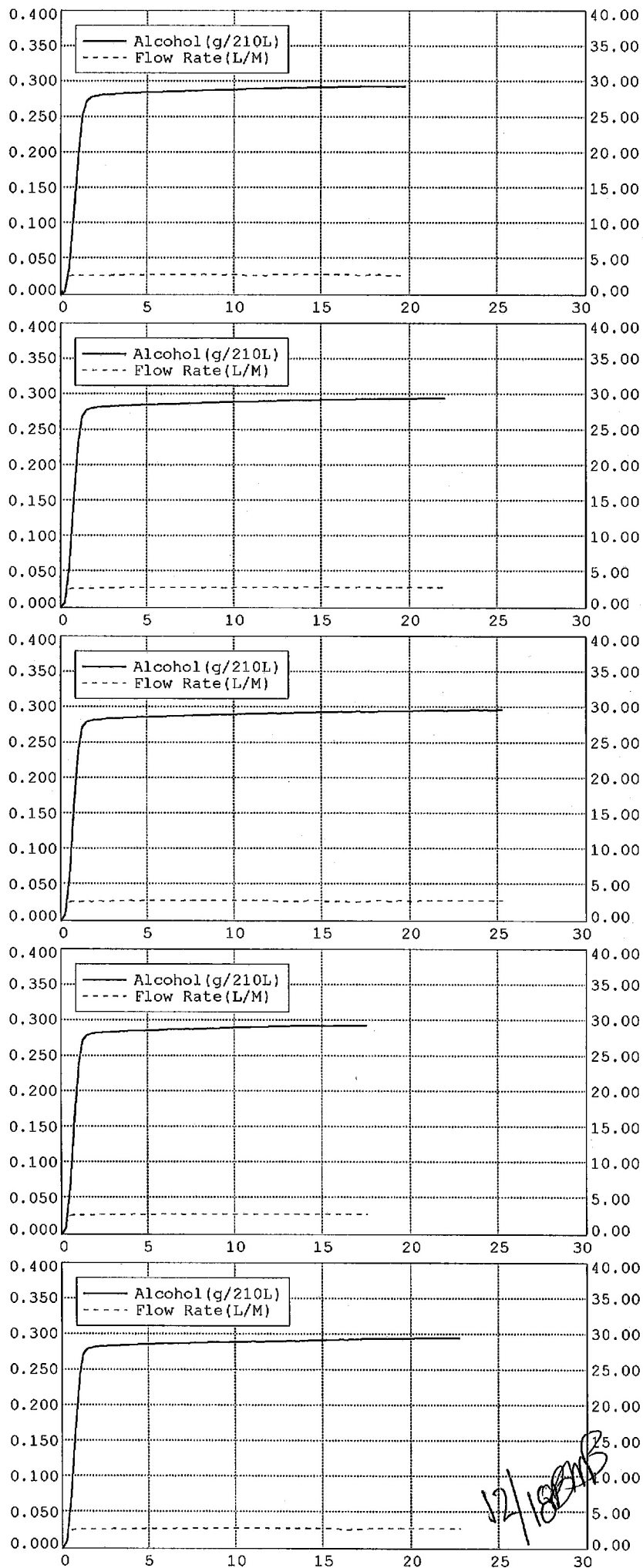
Date: 03/24/2011
Time: 13:20:02

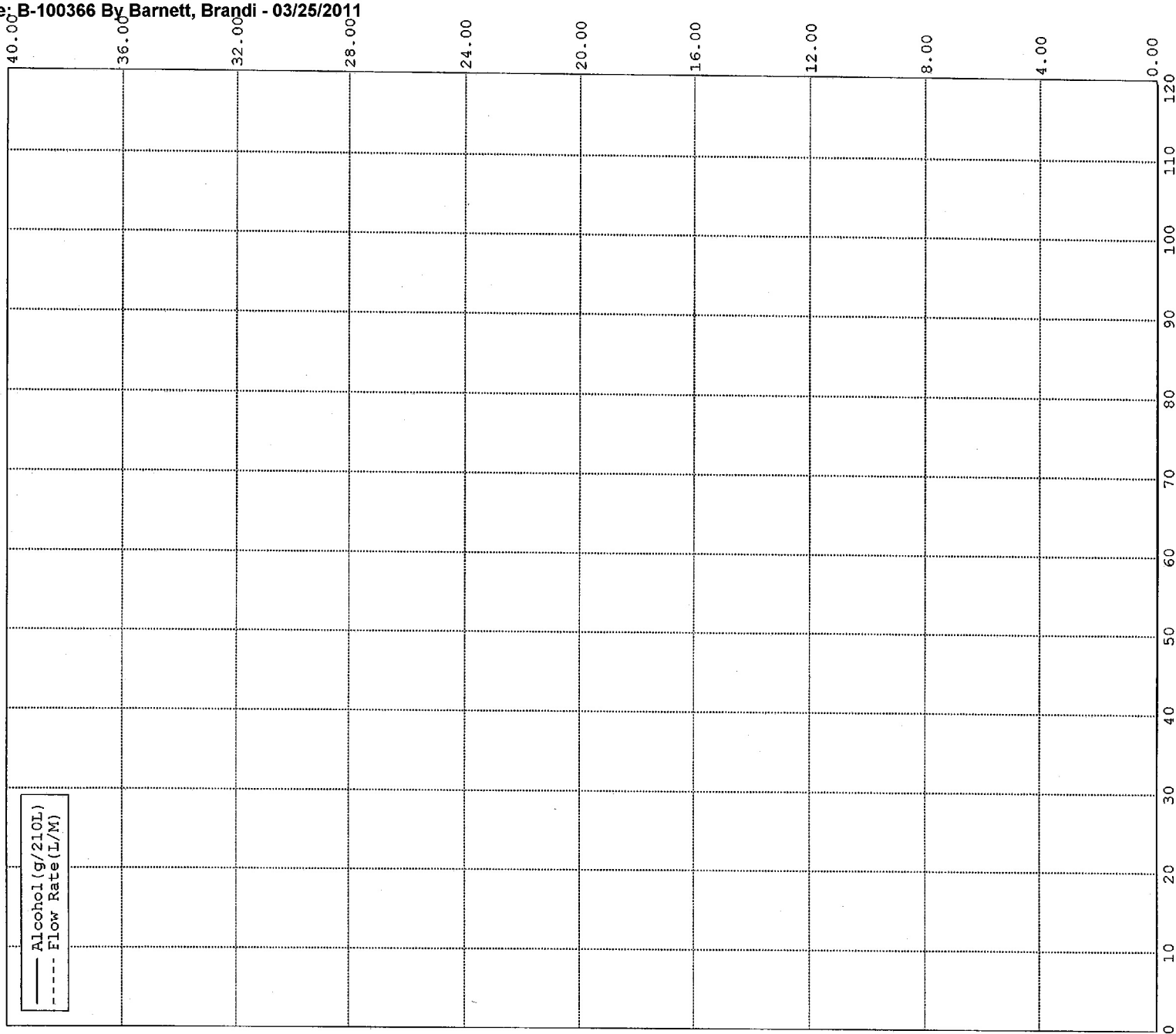
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.47: 0.295
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
EXTERNAL STANDARD	0.294	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.295	13:23
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.296	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.293	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.296	13:28
BLANK TEST	0.000	13:30

Average = 0.2948
Std Dev = 0.0013





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 03/24/2011
Time: 14:01:24

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
XXXX

CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.47: 0.078
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:02
BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.080	14:02
BLANK TEST	0.000	14:03
SUBJECT SAMPLE	INCOMPLETE	14:05

BMB
13/10/2011

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 03/24/2011
Time: 14:10:59

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

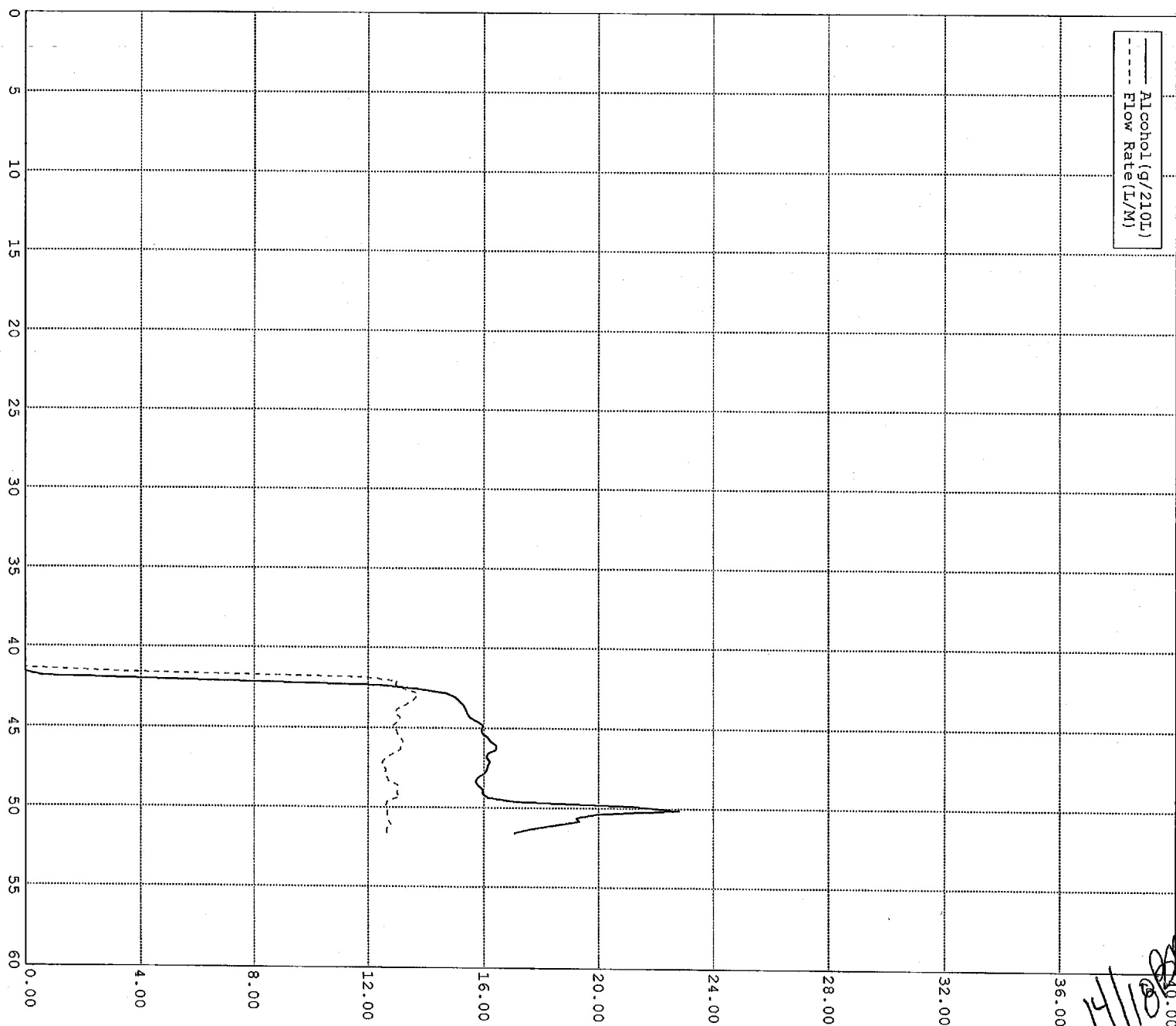
OPERATOR NAME:
KNOWN MOUTH ALCOHOL
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.46: 0.078
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 14:12
INTERNAL STANDARD	0.000 14:12
EXTERNAL STANDARD	VERIFIED 14:12
BLANK TEST	0.080 14:12
SUBJECT SAMPLE	0.000 14:13
	Invalid 14:14

DMB

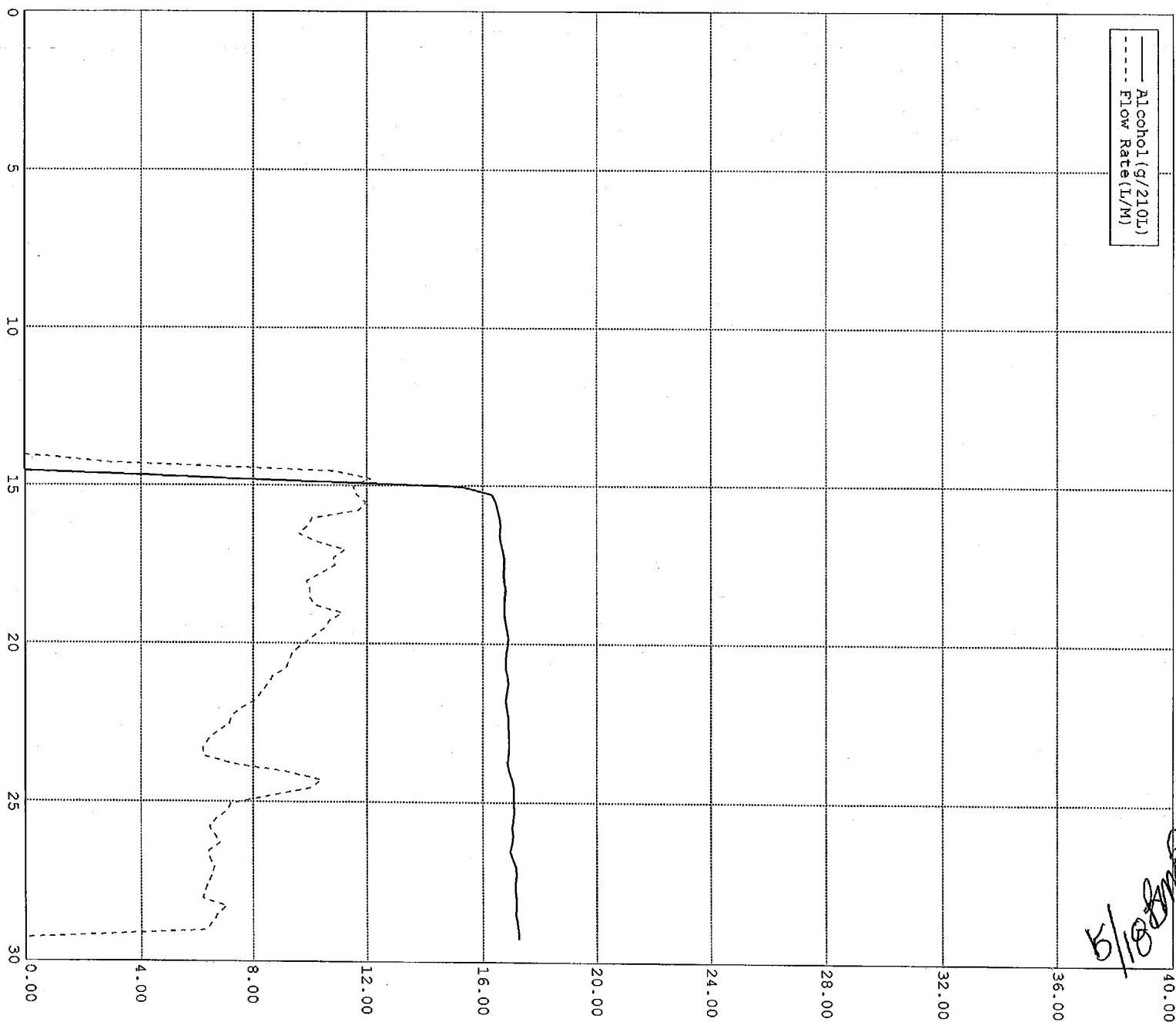


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100366Date: 03/24/2011
Time: 14:21:53SUBJECT 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 29.47: 0.078
LOT #: 34409080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:24
BLANK TEST	0.000	14:24
INTERNAL STANDARD	VERIFIED	14:24
EXTERNAL STANDARD	0.079	14:24
BLANK TEST	0.000	14:25
SUBJECT SAMPLE	INTERFERENCE	14:26

B91B

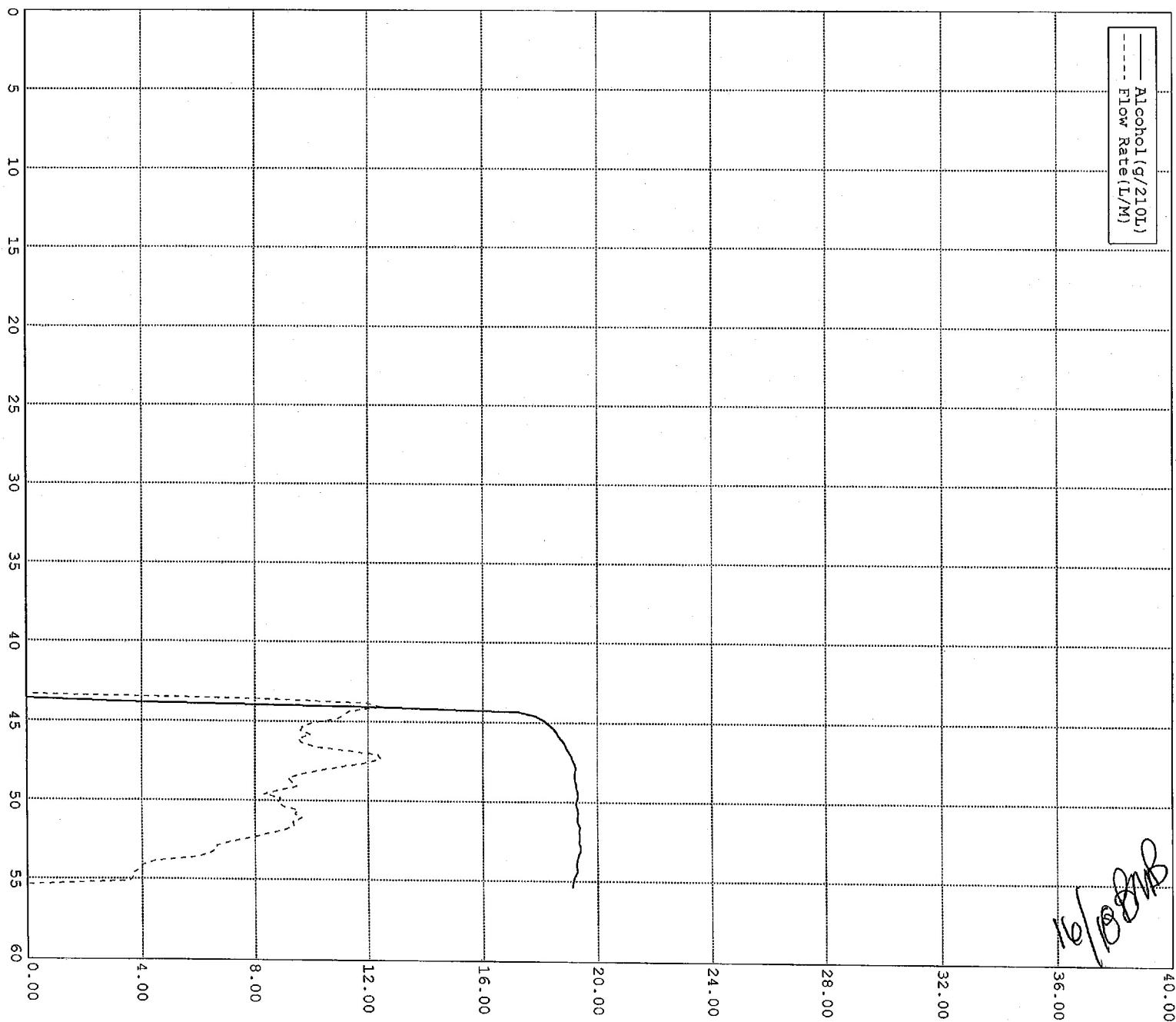


5/1/08

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100366Date: 03/24/2011
Time: 14:30:00SUBJECT NAME:
TEST TEST
LICENSE #: INTERFEREOPERATOR NAME:
ETHANOL AND ISOPROPANOL
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.47: 0.078
LOT #: 34409080A1
EXPIRATION: 01/01/2012DIAGNOSTIC CHECK
BLANK TEST PASSED 14:31
INTERNAL STANDARD VERIFIED 14:31
EXTERNAL STANDARD 0.079 14:31
BLANK TEST 0.000 14:32
SUBJECT SAMPLE INTERFERENCE 14:33

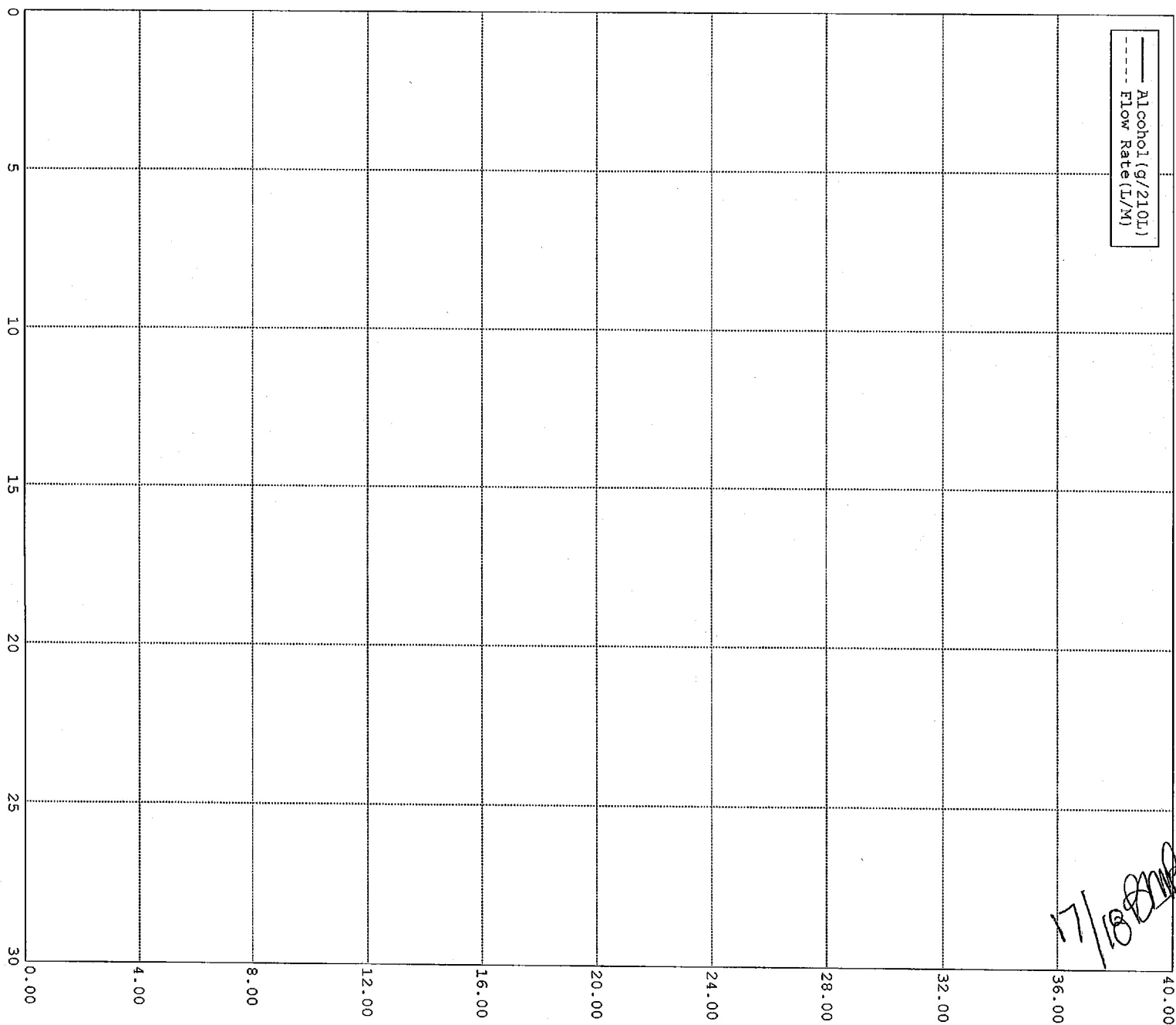
BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100366Date: 03/24/2011
Time: 13:55:56SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
RADIO INTERFERE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.47: 0.078
LOT #: 34409080A1
EXPIRATION: 01/01/2012DIAGNOSTIC CHECK
BLANK TEST PASSED 13:56
INTERNAL STANDARD VERIFIED 13:57
EXTERNAL STANDARD VERIFIED 13:57
BLANK TEST 0.080 13:57
0.000 13:58

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100366

Date: 03/24/2011
 Time: 14:47:49

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 29.45: 0.078
 LOT #: 34409080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:49
BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.080	14:49
BLANK TEST	0.000	14:50
SUBJECT SAMPLE	0.000	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.080	14:52
BLANK TEST	0.000	14:53

BRANDI

