

	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 # 100386Analyst Brandi BarnettDate 4/27/11

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 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 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 DR 62167
    - 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: 100386  
-----

Date: 04/27/2011  
Time: 10:25:07

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED  
Breath Tube = 45.7°C PASSED

PUMP INFO

Flow Rate = 4.087 L/M PASSED

DETECTOR INFO

PUMP ON PASSED  
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD PASSED

*Handwritten signature:* Z/1809146

Technician Screen

-----  
DATAMASTER dnt: 100386  
-----

Date: 04/27/2011  
Time: 10:38 AM

Temperatures (°C)

Sample Cell: 49.6°C  
Breath Tube: 46.0°C

Current Barometer 29.9 in  
Volume (Lit) 1.43

Settings

Lamp: 1.67 V  
Bias: 79 V  
Cooler: 1.63 V  
Chopper: 522 Hz

Voltages (V)

Flow: 1.05 V  
Detector: 0.245 V

3/18 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety  
DATAMASTER dmt: 100386

Date: 03/09/2011  
Time: 12:13:41

Ce	=	0.1000		
CAL	=	0.983582	0.800	<= CAL < 1.200
b1	=	0.0001	0.0000	<= b1 < 0.0040
b2	=	0.0037	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0883	0.0500	<= Xq < 0.2000
a21	=	1.174472	1.050	<= a21 < 1.300
a31	=	0.564984	0.300	<= a31 < 0.800

4/18/2011

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dnt: 100386

Date: 04/27/2011  
 Time: 10:44:33

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

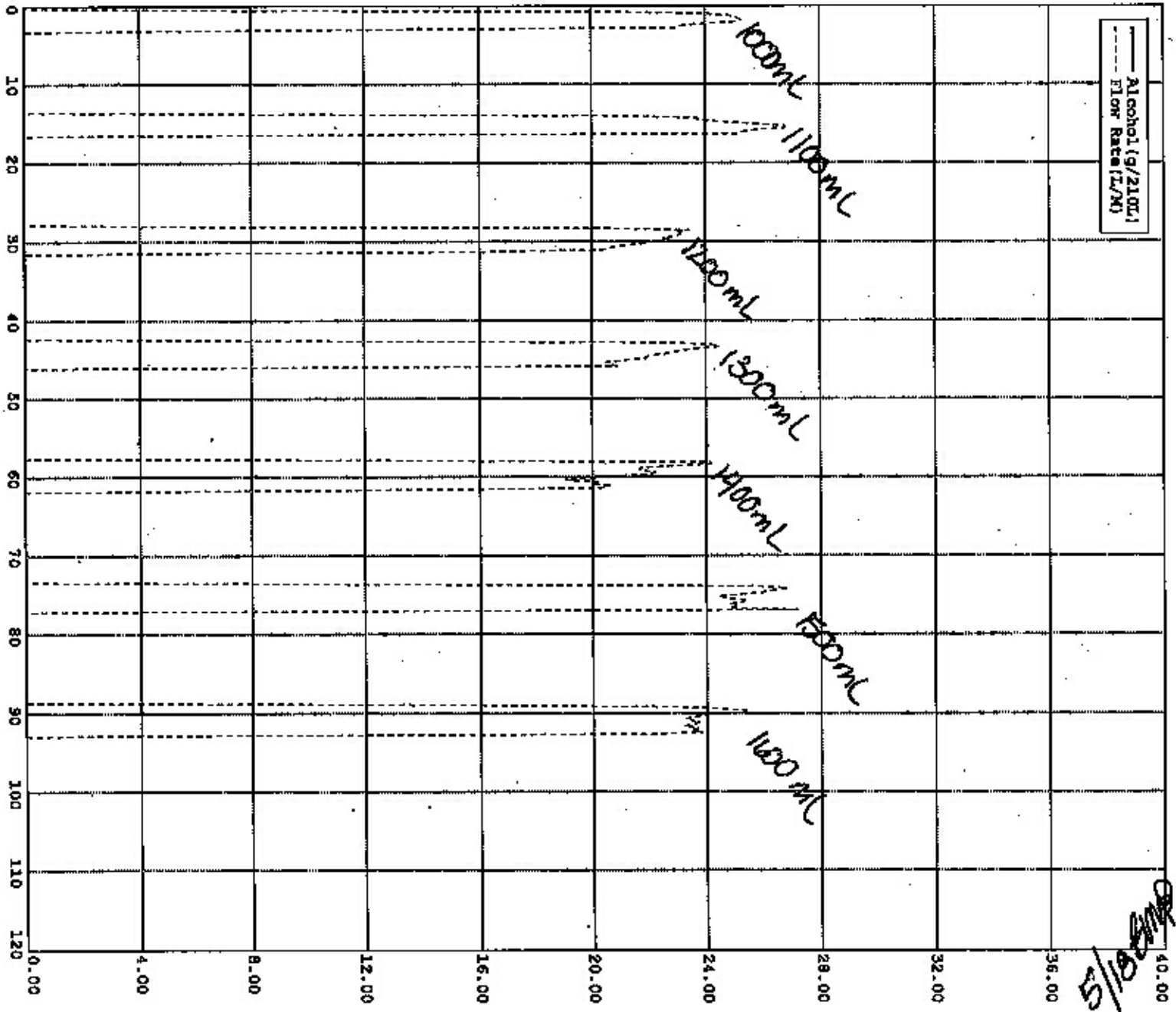
OPERATOR NAME:  
 MINIMUM VOLUME  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.90: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

TEST TYPE	PASSED	10:47
DIAGNOSTIC CHECK	0.000	10:47
BLANK TEST	VERIFIED	10:47
INTERNAL STANDARD	0.081	10:48
EXTERNAL STANDARD	0.000	10:48
BLANK TEST	0.000	10:48
SUBJECT SAMPLE	0.000	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.080	10:51
BLANK TEST	0.000	10:52

*BMB*



*5/1/08*

LINEARITY CHECK

Alaska Department of Public Safety  
 LABORATORY UNIT: 100386

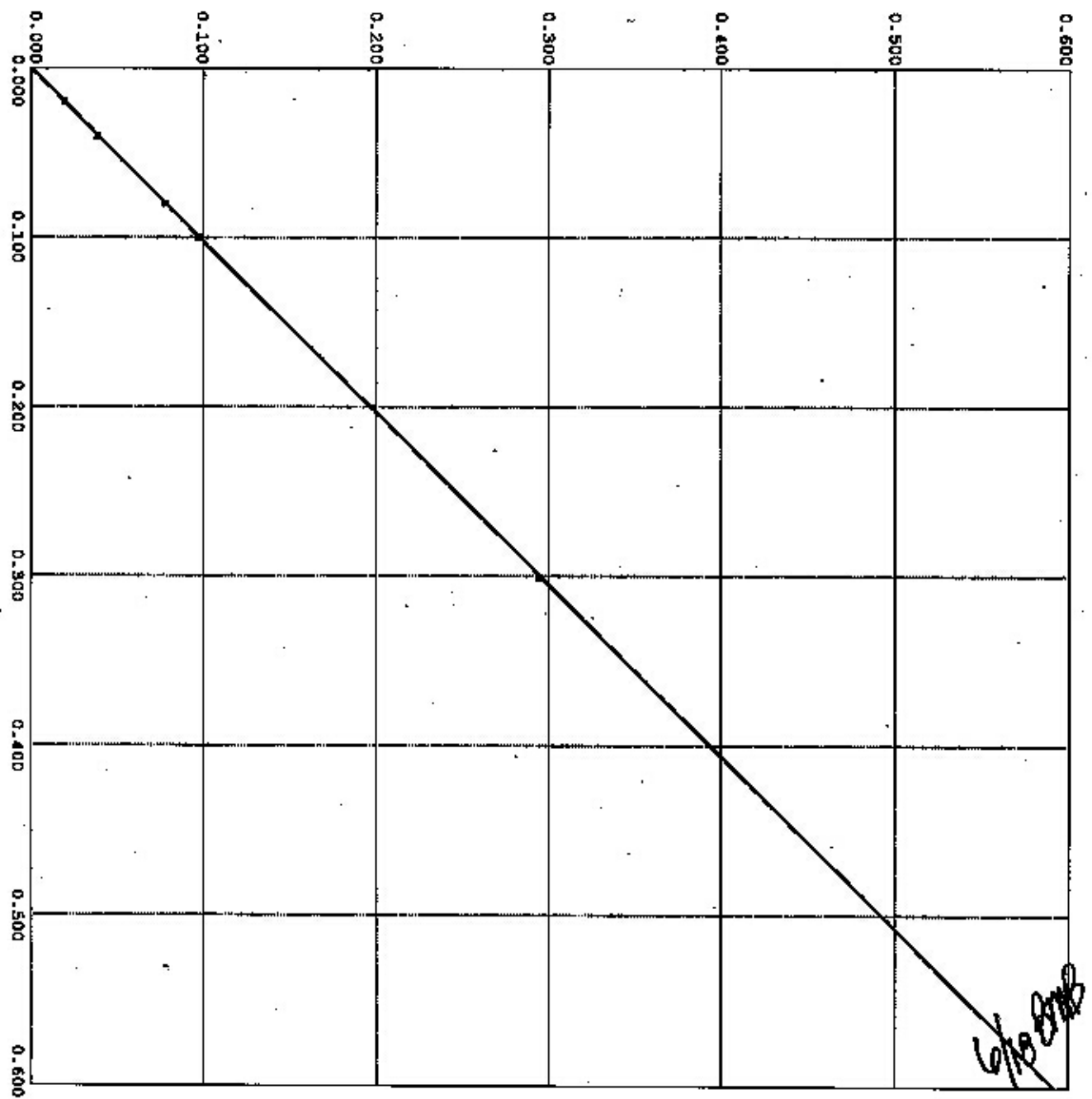
Date: 04/27/2011  
 Time: 12:41:59

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.040	0.0390	0.0000
0.060	0.0792	0.0004
0.100	0.0984	0.0005
0.200	0.1996	0.0005
0.300	0.2950	0.0012

SLOPE = 0.987083  
 R<sup>2</sup> = 0.999943

BMB



LINEARITY CHECK: Control Test 1

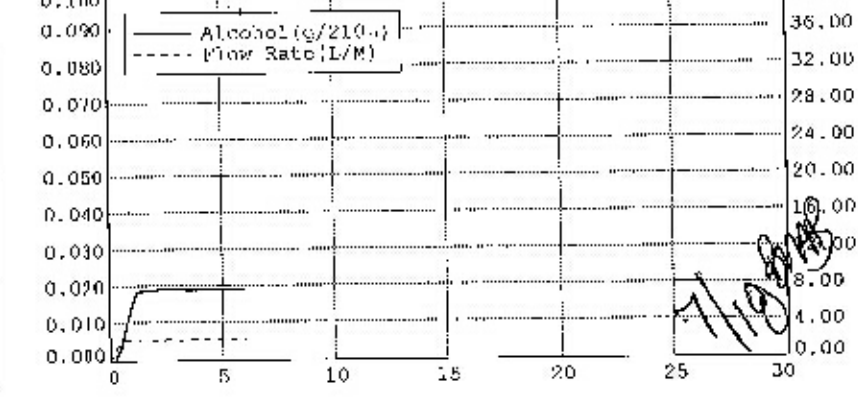
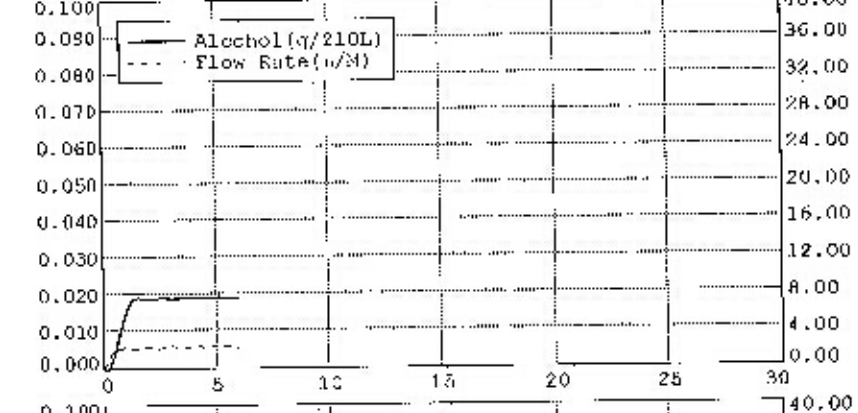
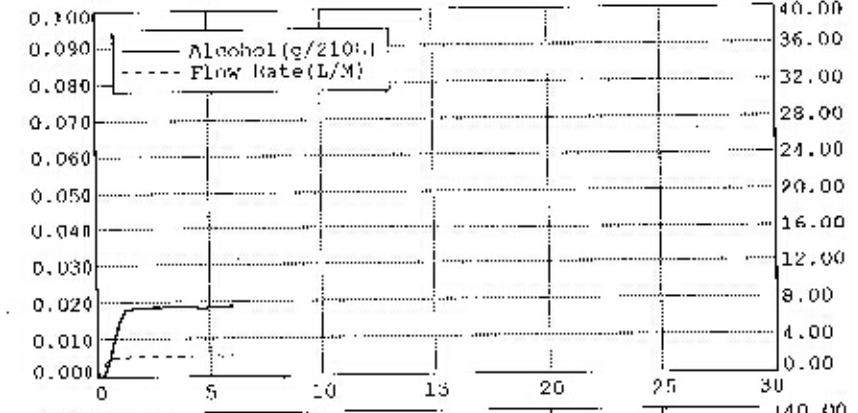
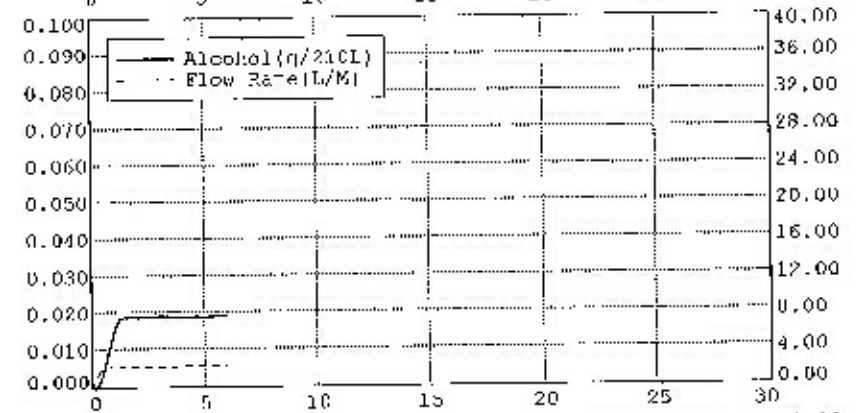
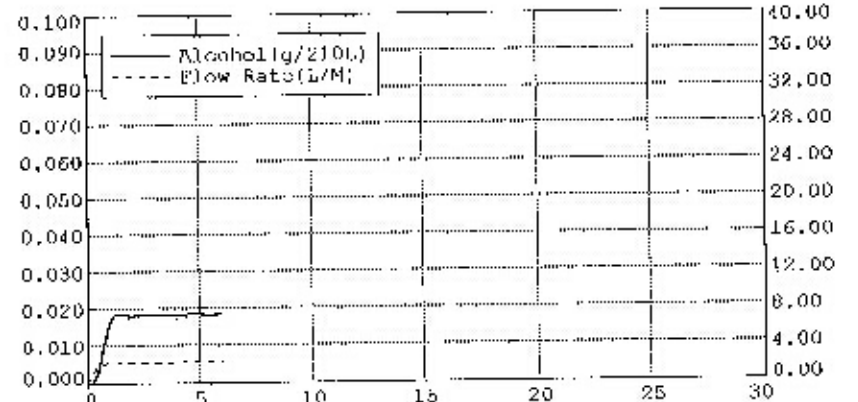
Alaska Department of Public Safety  
 DATAMASTER dat: 100386

Date: 04/27/2011  
 Time: 12:42:00

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 29.92: 0.020  
 LOT #: 02811020A1  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:43
INTERNAL STANDARD	VERIFIED	12:43
EXTERNAL STANDARD	0.019	12:43
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.020	12:44
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.020	12:45
BLANK TEST	0.000	12:46
EXTERNAL STANDARD	0.020	12:46
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.020	12:47
BLANK TEST	0.000	12:48

Average = 0.0198  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATA MASTER dnt: 100386

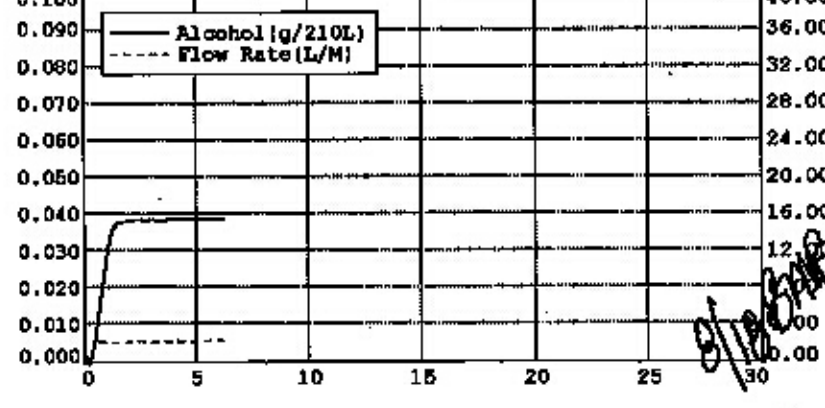
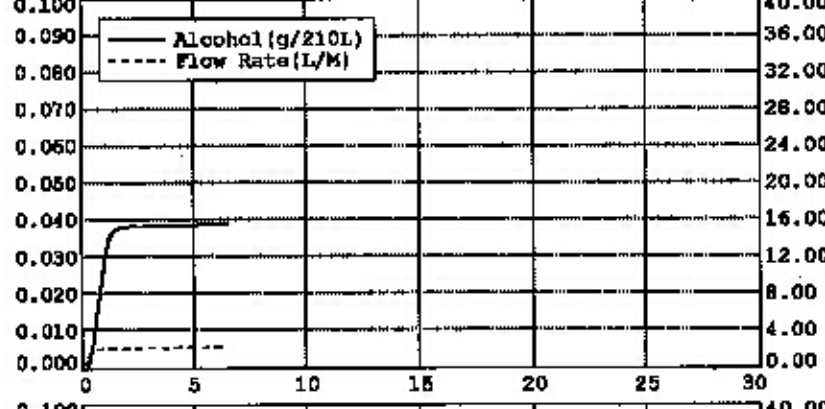
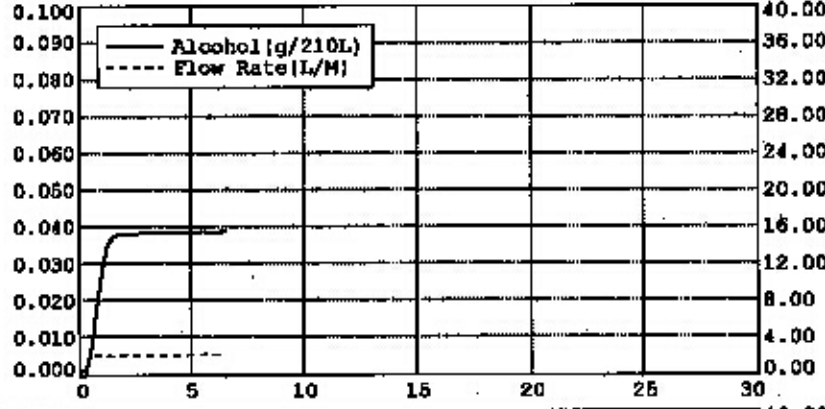
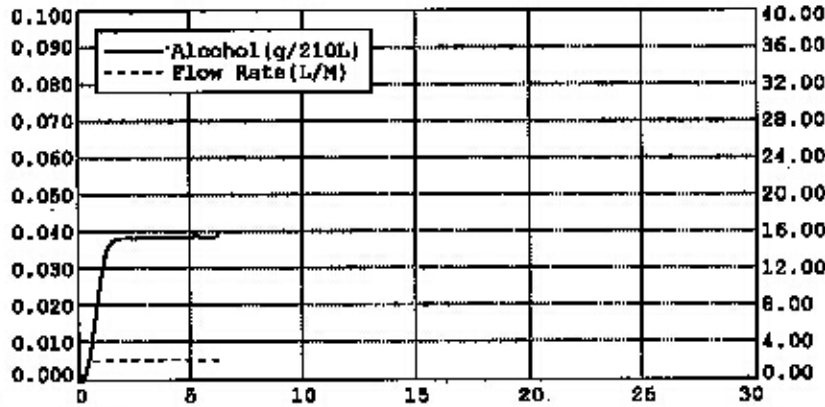
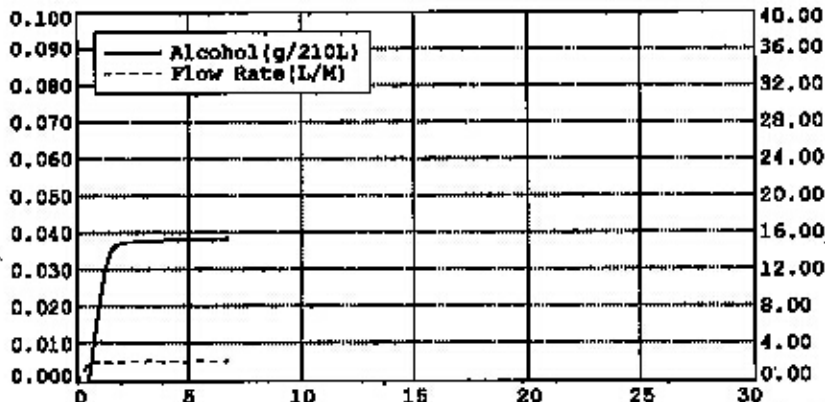
Date: 04/27/2011  
 Time: 12:50:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
 TARGET AT 29.92: 0.040  
 LOT #: 02811040A2  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:51
INTERNAL STANDARD	VERIFIED	12:51
EXTERNAL STANDARD	0.039	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.039	12:52
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.039	12:54
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.039	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.039	12:56
BLANK TEST	0.000	12:57

Average = 0.0390  
 Std Dev = 0.0000





LINEARITY CHECK: Control Test 3

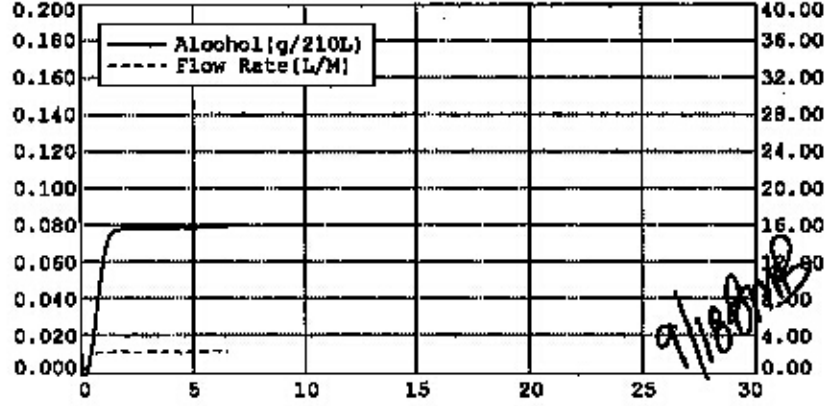
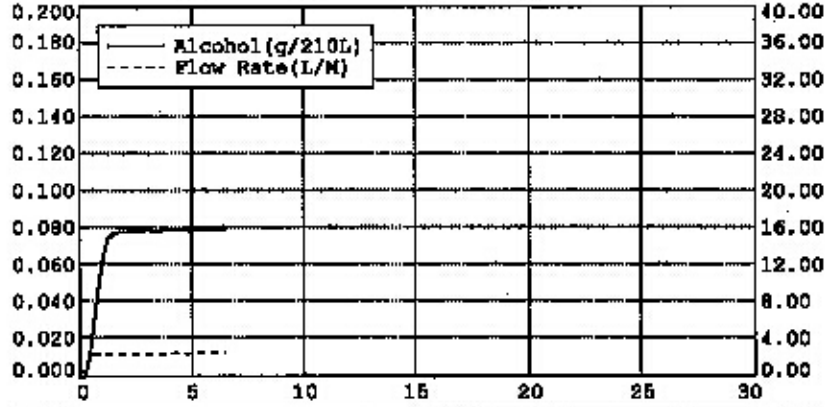
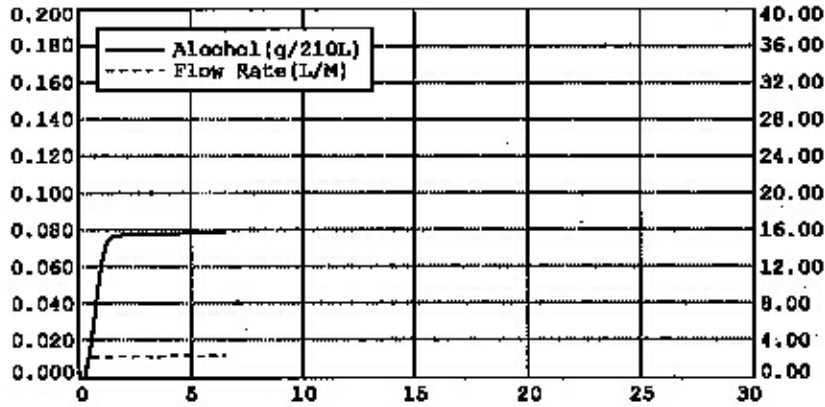
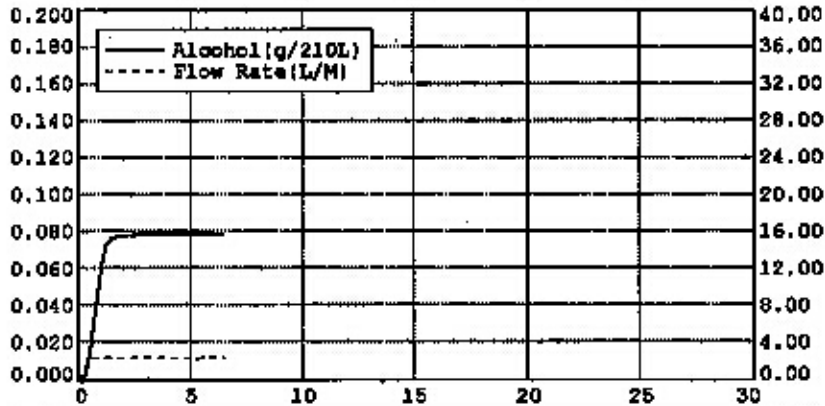
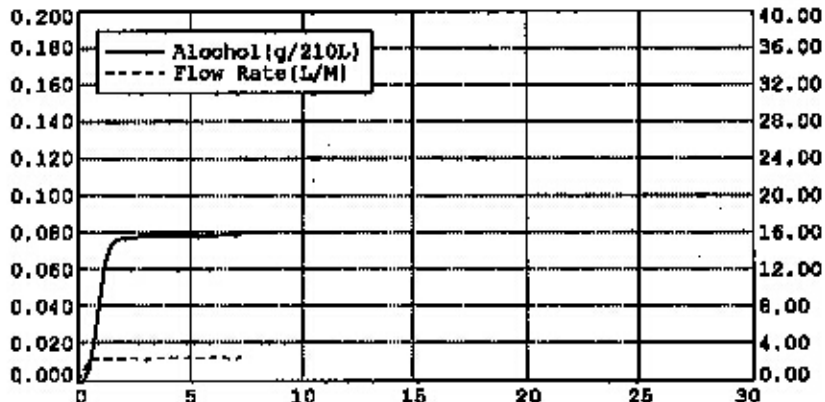
Alaska Department of Public Safety  
 DATAMASTER dnt: 100386

Date: 04/27/2011  
 Time: 12:58:13

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.93: 0.080  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:59
INTERNAL STANDARD	VERIFIED	12:59
EXTERNAL STANDARD	0.079	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.079	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.079	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.079	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.080	13:04
BLANK TEST	0.000	13:05

Average = 0.0792  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
 DATAMASTER dnt: 100386

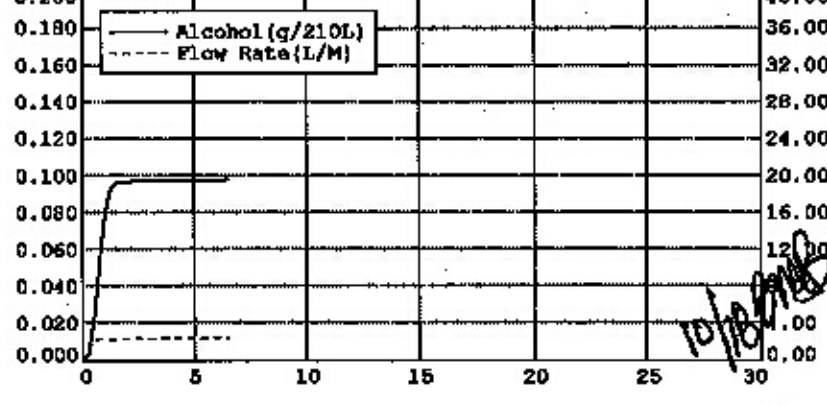
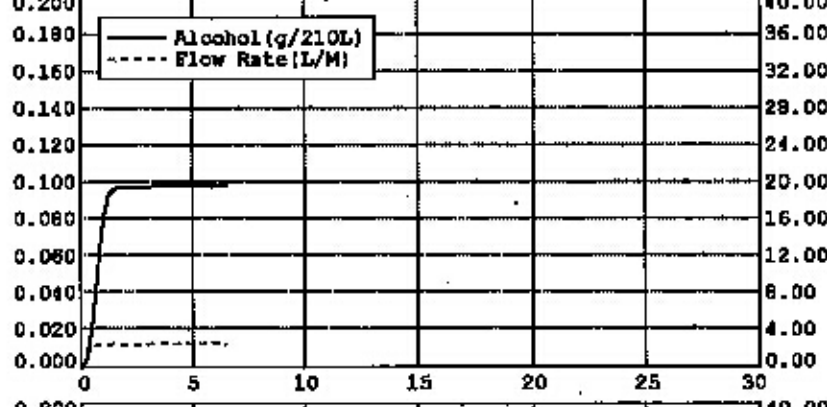
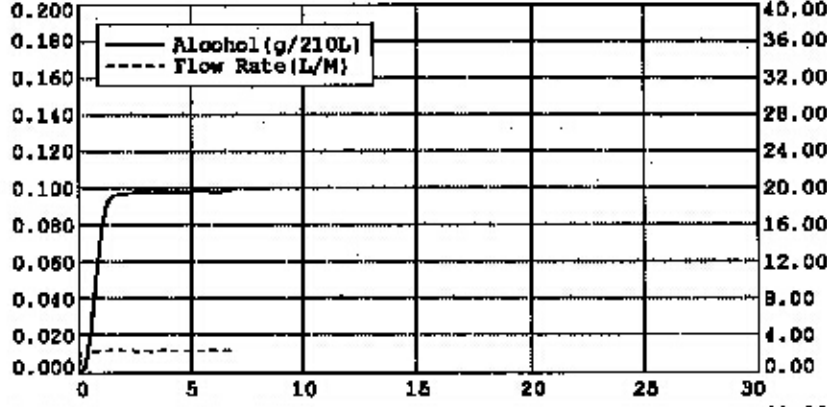
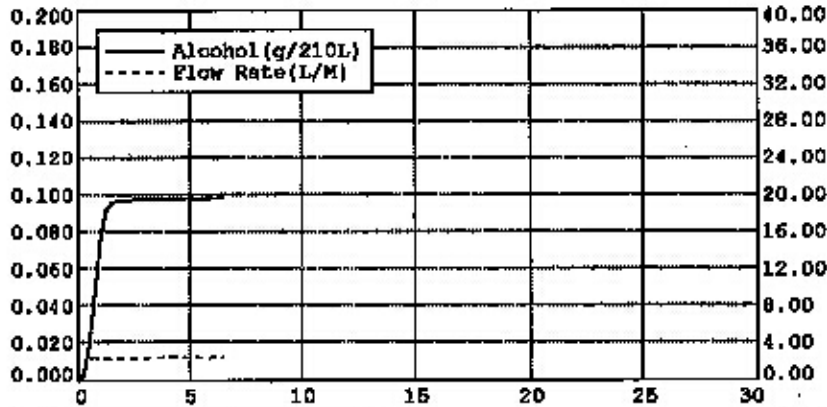
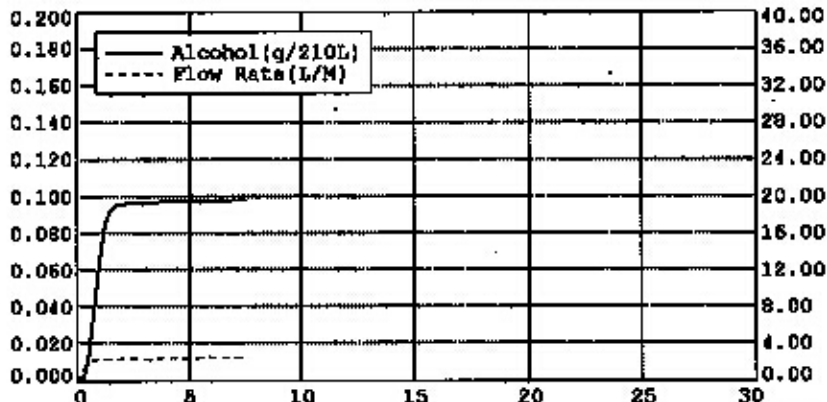
Date: 04/27/2011  
 Time: 13:06:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
 TARGET AT 29.94: 0.100  
 LOT #: 0561100A2  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:07
INTERNAL STANDARD	VERIFIED	13:07
EXTERNAL STANDARD	0.099	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.098	13:09
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.099	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.098	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.098	13:12
BLANK TEST	0.000	13:13

Average = 0.0984  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
 DATAMASTER dnt: 100386

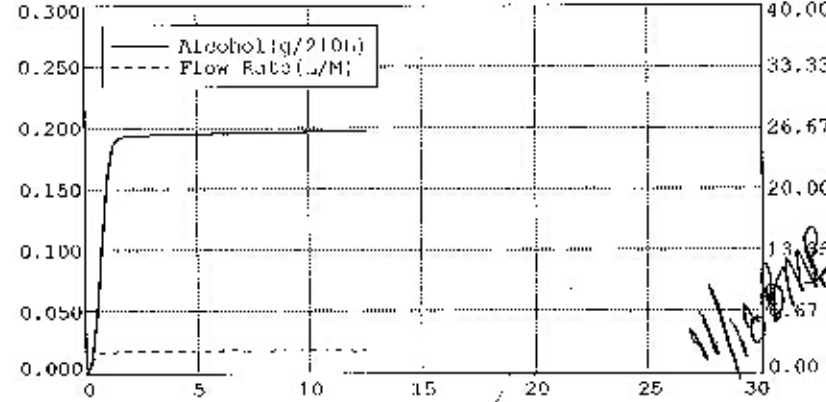
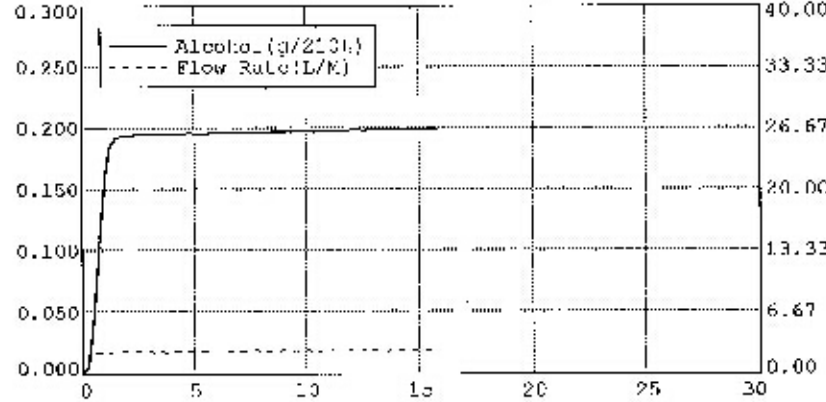
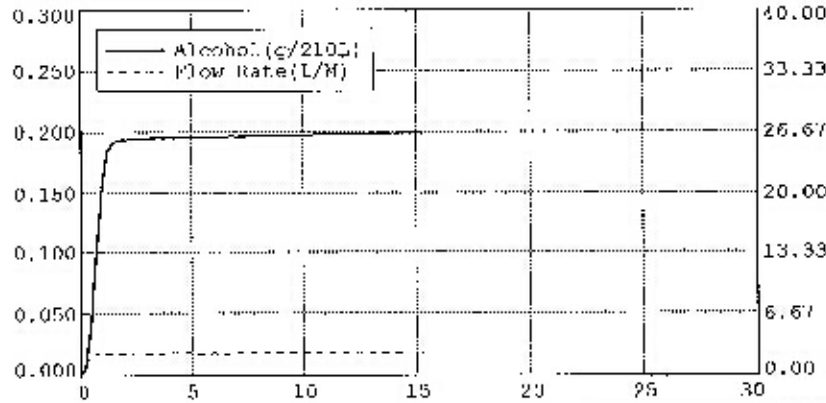
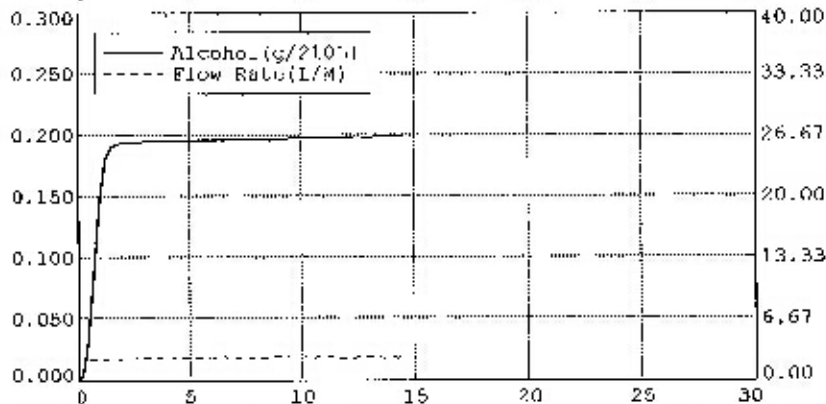
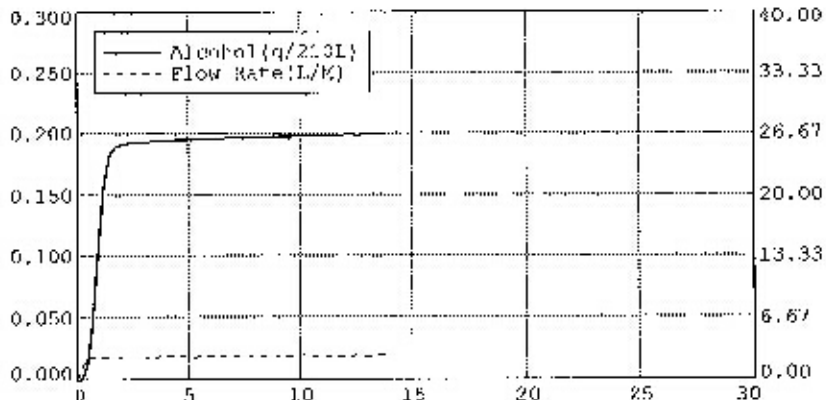
Date: 04/27/2011  
 Time: 13:56:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
 TARGET AT 29.92: 0.200  
 LOT #: 07411200A2  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.199	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.200	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.200	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.200	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.199	14:03
BLANK TEST	0.000	14:04

Average = 0.1996  
 Std Dev = 0.0005



## LINEARITY CHECK: Control Test 6

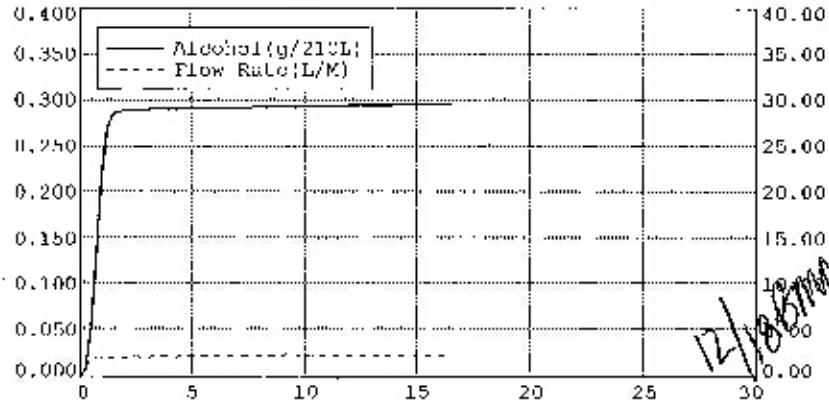
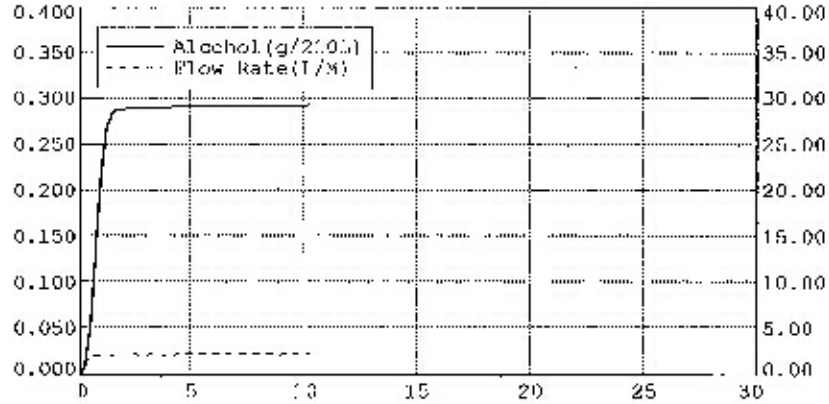
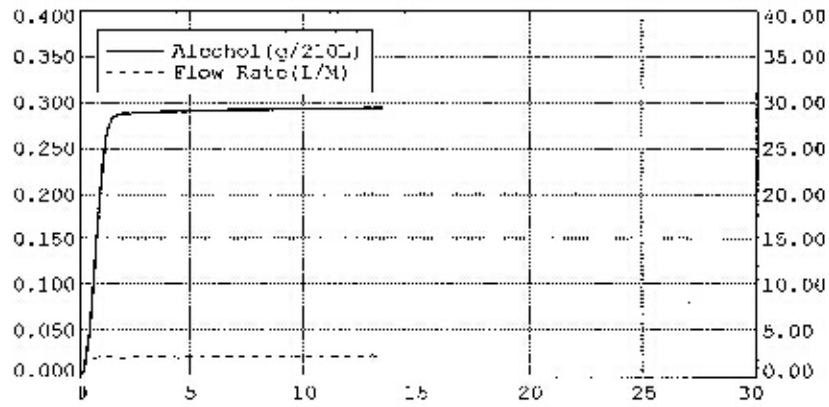
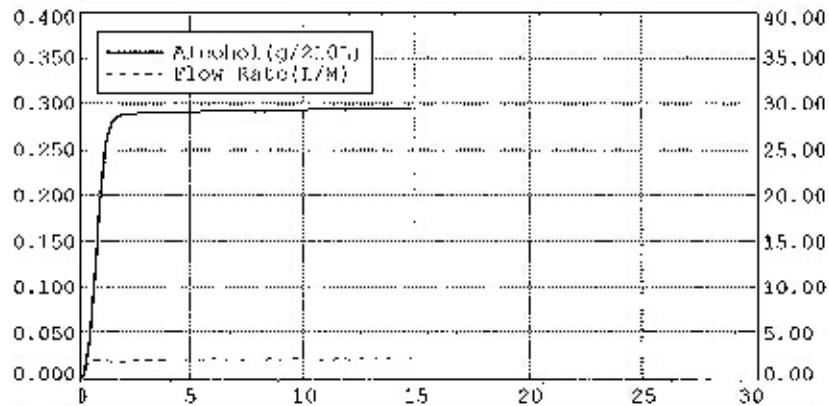
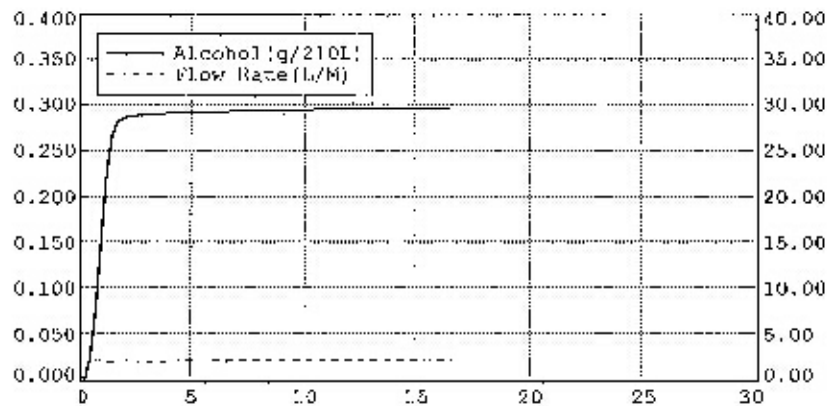
Alaska Department of Public Safety  
DATAMASTER dnt: 100386

Date: 04/27/2011  
Time: 14:00:12

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.300  
TARGET AT 29.93: 0.300  
LOT #: 07411300A1  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:09
INTERNAL STANDARD	VERIFIED	14:09
EXTERNAL STANDARD	0.296	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.295	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.295	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.293	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.296	14:14
BLANK TEST	0.000	14:15

Average = 0.2950  
Std Dev = 0.0012



**SUBJECT TEST**

Alaska Department of Public Safety  
 DATABASE# 100386

Date: 04/27/2011  
 Time: 14:20:32

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

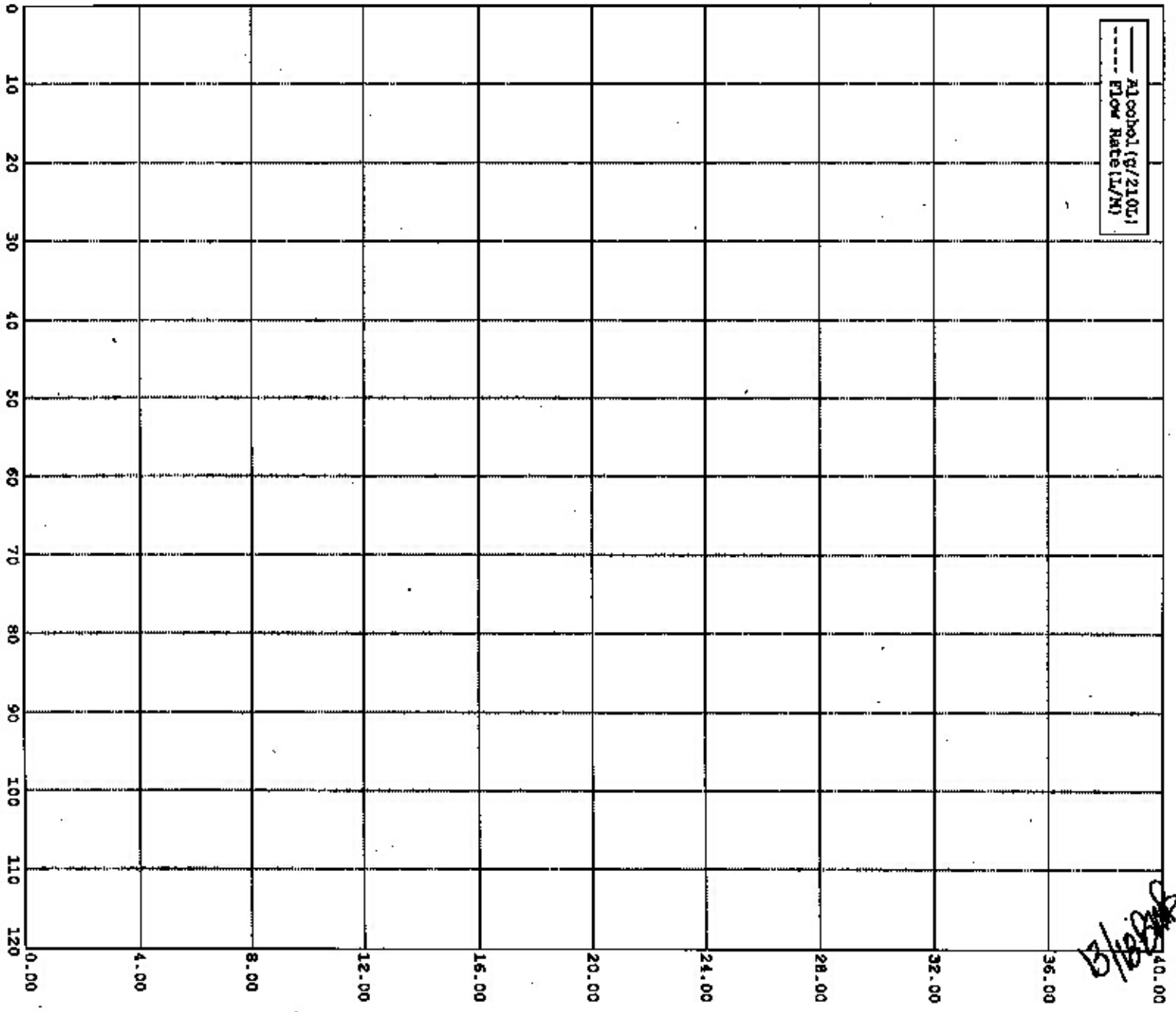
OPERATOR NAME:  
 INCOMPLETE XXXX  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NORMAL: 0.080  
 TARGET AT 29.92: 0.080  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:21
BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21
EXTERNAL STANDARD	0.081	14:22
BLANK TEST	0.000	14:22
SUBJECT SAMPLE	INCOMPLETE	14:25

*BMB*



*BMB*

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100386

Date: 04/27/2011  
Time: 14:39:14

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

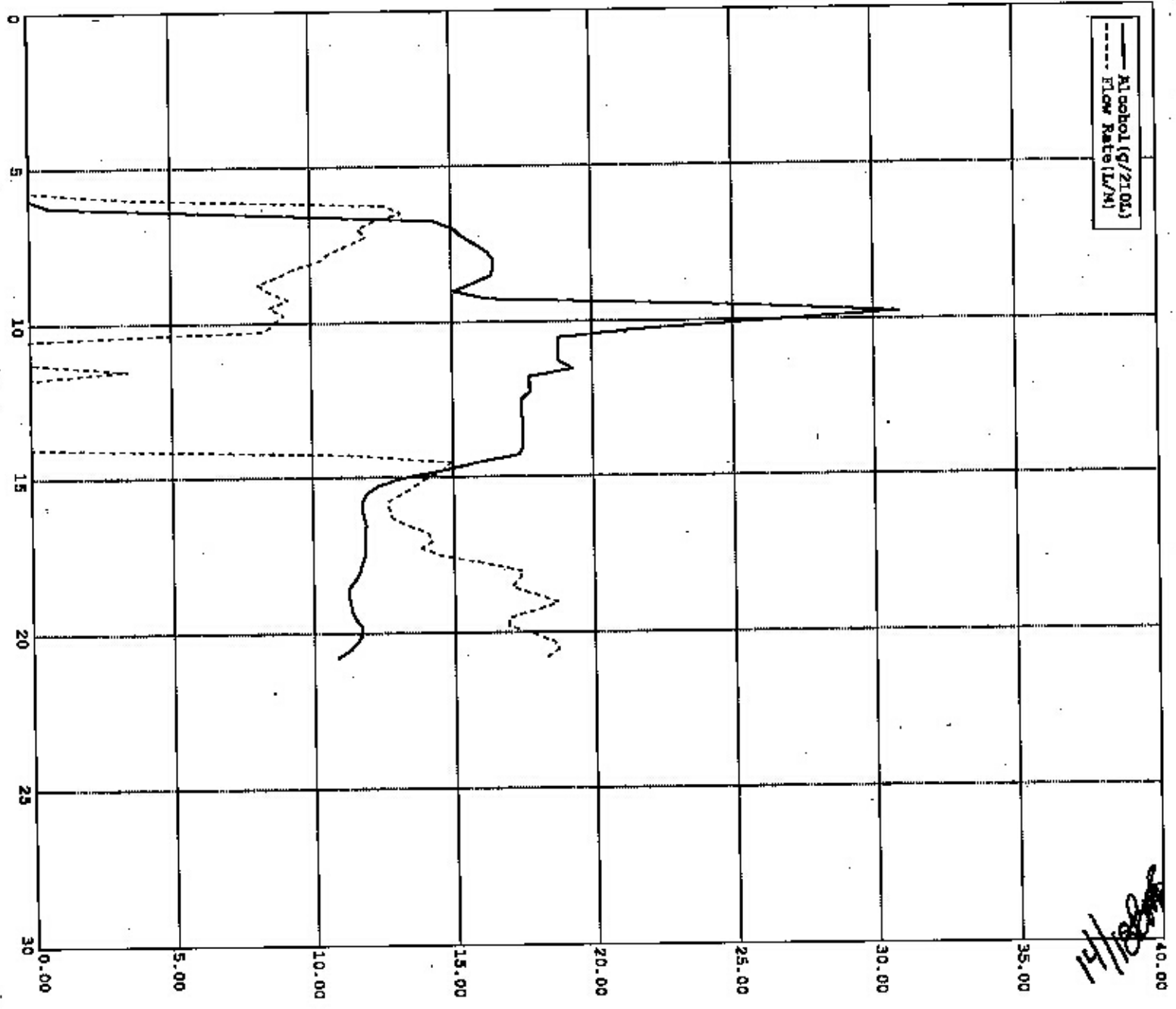
OPERATOR NAME:  
INVALID XXXX  
OPERATOR'S #: XXXX

DEPT/AGENCY:  
KNOW MOTOR ALCOHOL  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.93: 0.080  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:41
BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.080	14:41
BLANK TEST	0.000	14:42
SUBJECT SAMPLE	INVALID	14:43

*Handwritten signature: BMB*



*Handwritten signature and date: 14/11/11*

SUBJECT TEST

Alaska Department of Public Safety  
DAVENPORT dmc: 100386

Date: 04/27/2011  
Time: 14:45:45

SUBJECT NAME:  
TEST TEST  
LICENSE #: INFERRE

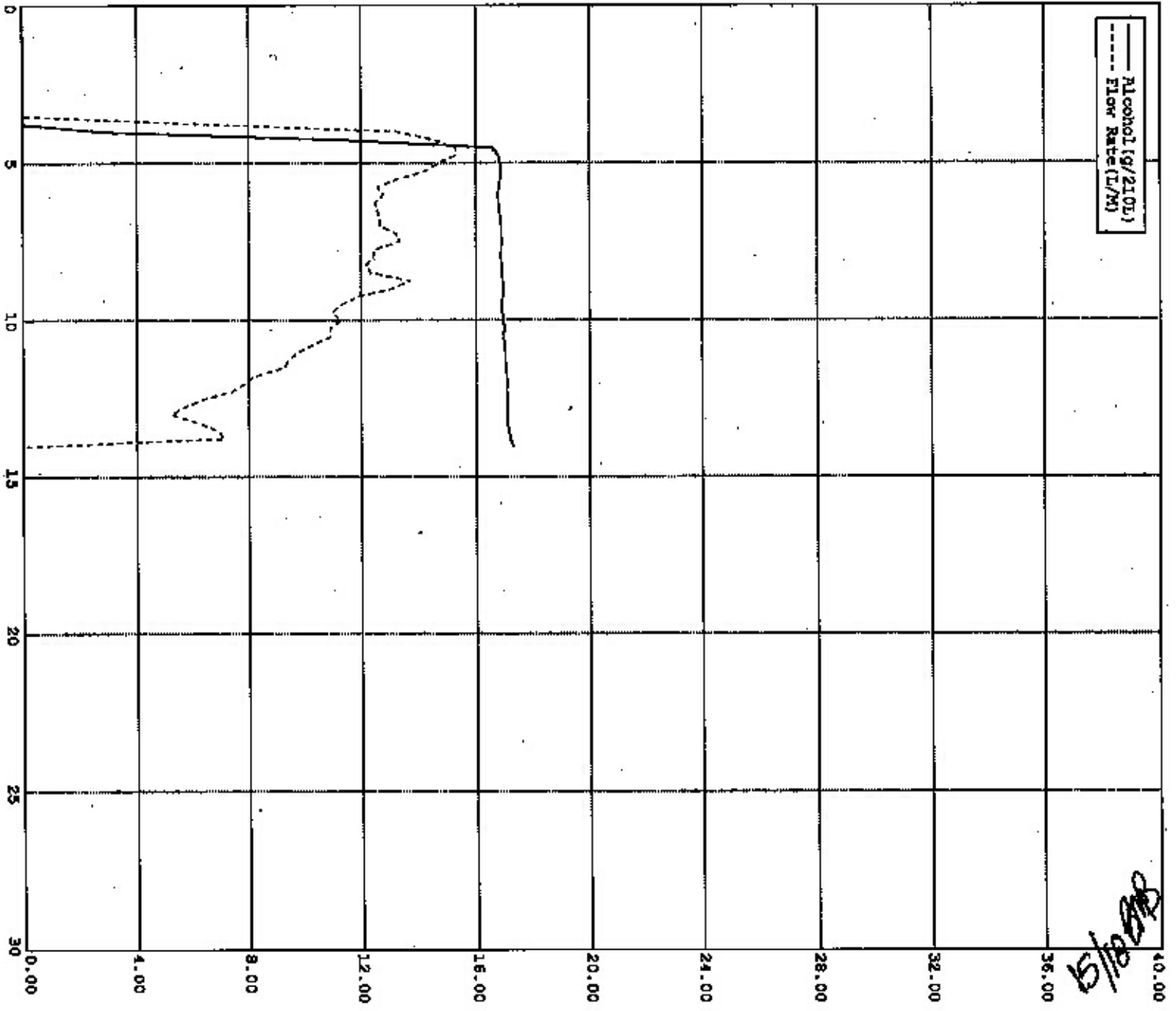
OPERATOR NAME:  
REHAROL AND AGENCIE  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.92: 0.080  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:46
BLANK TEST	0.000	14:47
INTERNAL STANDARD	VERIFIED	14:47
EXTERNAL STANDARD	0.080	14:47
BLANK TEST	0.000	14:48
SUBJECT SAMPLE	INFERRENCE	14:48

*BSMP*



*15/10/2011*

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dnt: 100386

Date: 04/27/2011  
Time: 14:52:34

SUBJECT NAME:  
TEST TEST  
LICENSE #: INTEREST

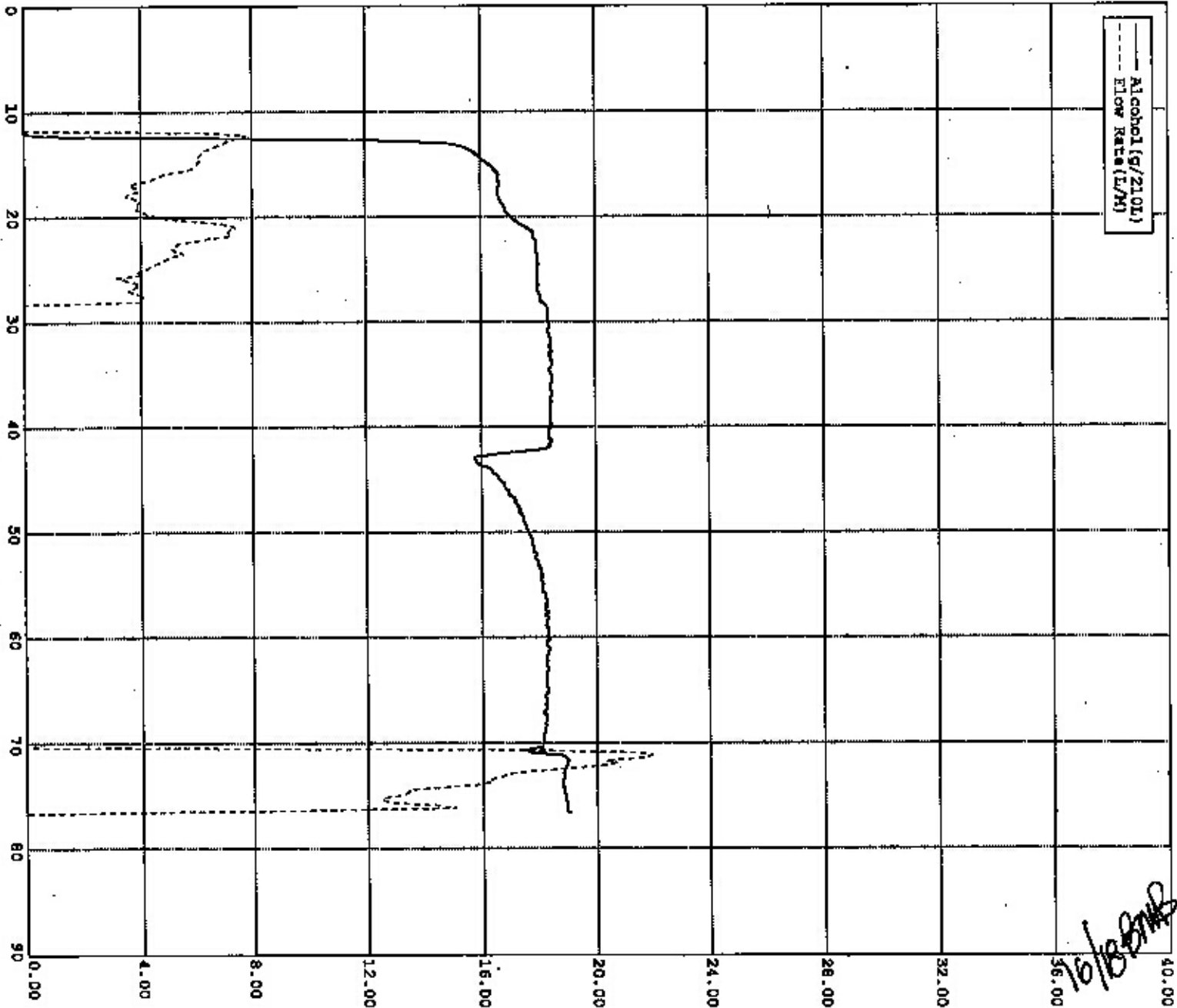
OPERATOR NAME:  
ETRYAUI AND ISORROANOU  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.93: 0.080  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:54
BLANK TEST	0.000	14:54
INTERNAL STANDARD	VERIFIED	14:54
EXTERNAL STANDARD	0.080	14:54
BLANK TEST	0.000	14:55
SUBJECT SAMPLE	INTERFERENCE	14:56

BMB



16/04/2011 BMB



SUBJECT TEST

Alaska Department of Public Safety  
DIAGNOSTIC Unit: 100386

Date: 04/27/2011  
Time: 15:00:07

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

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

DEPT/AGENCY:  
RADIO FREQUENCY INTERFERENCE  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.92: 0.080  
LOF #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:04
BLANK TEST	0.000	15:04
INTERNAL STANDARD	VERIFIED	15:04
EXTERNAL STANDARD	0.080	15:04

HFI Detected

*17/10/2011*

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmc: 100386

Date: 04/27/2011  
 Time: 15:19:32

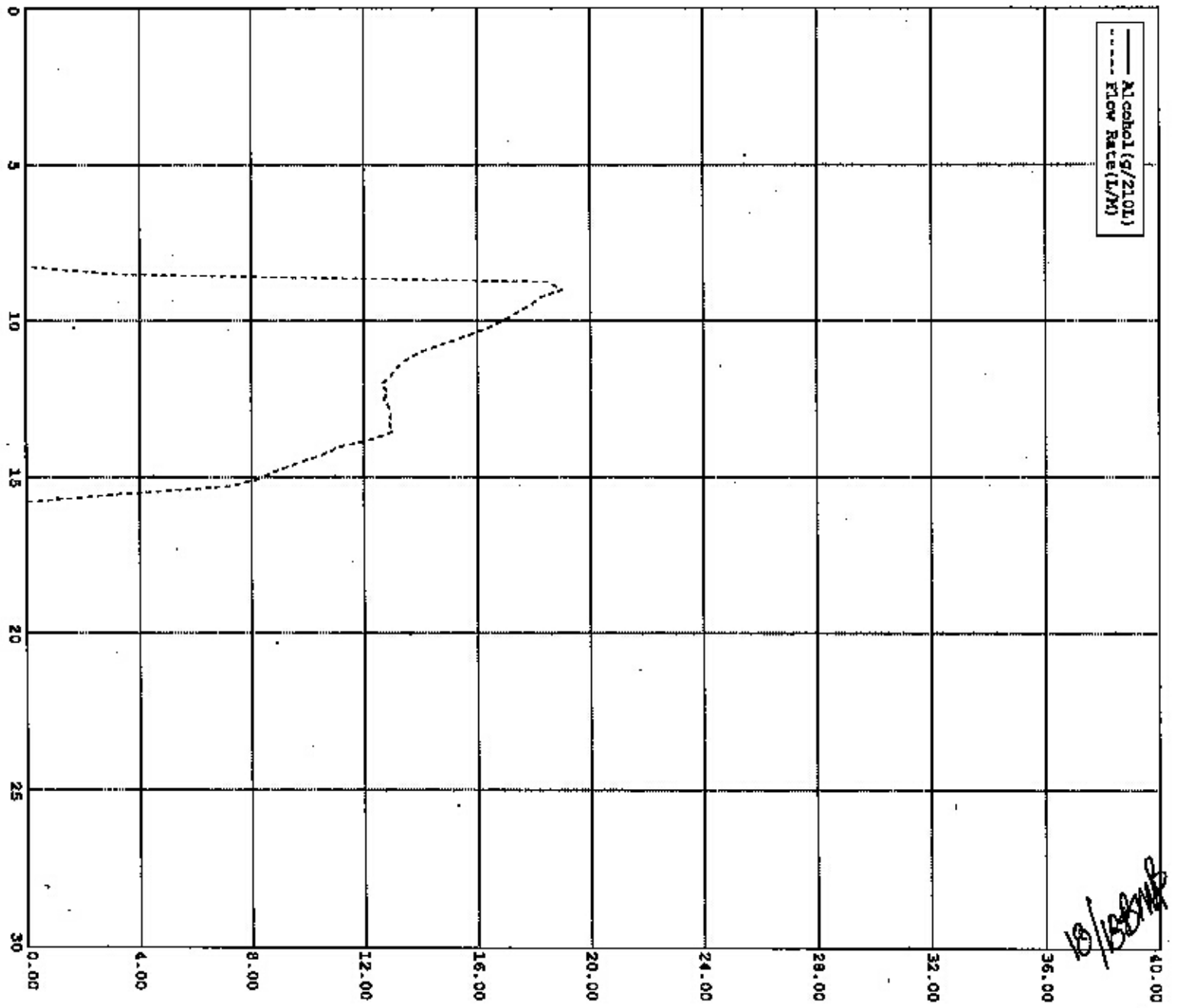
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 BRANDI K BARRETT  
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.92: 0.079  
 LOT #: D2511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:20
BLANK TEST	0.000	15:20
INTERNAL STANDARD	VERIFIED	15:21
EXTERNAL STANDARD	0.079	15:21
BLANK TEST	0.000	15:22
SUBJECT SAMPLE	0.000	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.080	15:23
BLANK TEST	0.000	15:24



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Final page for report

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7/3/2014