	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 # 100375Analyst Brandi BarnettDate 4/14/11

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 1700 mL
5. Dry Gas Linearity Test (attached)
  - a. Levels Used 
    - i. 0.020g/210L Mnf ILMD Lot 02811020A1 Exp 07/01/13
    - ii. 0.040g/210L Mnf ILMD Lot 02811040A2 Exp 02/01/13
    - iii. 0.080g/210L Mnf ILMD Lot 02511080A3 Exp 02/01/13
    - iv. 0.100g/210L Mnf ILMD Lot 07611100A3 Exp 03/01/2013
    - v. 0.200g/210L Mnf ILMD Lot 07411200A2 Exp 03/01/2013
    - vi. 0.300g/210L Mnf ILMD 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 10/18/2010
      1. Simulator Calibration Date 08/04/2010 SN SD1202 DR 6267
    - 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)

1/18/11

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100375  
-----

Date: 04/14/2011  
Time: 11:13:42

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

TEMPERATURES

Sample Chamber = 49.0°C                    PASSED  
Breath Tube      = 47.6°C                   PASSED

PUMP INFO

Flow Rate = 4.485 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

2/18/08 MB

Technician Screen

-----  
DATAMASTER dmt: 100375  
-----

Date: 04/14/2011

Time: 11:46 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 47.9°C

Current Barometer 29.8 in

Volume (Ltr) 1.40

Settings

Lamp: 1.60 V

Bias: 79 V

Cooler: 1.54 V

Chopper: 532 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.083 V

3/18/11 MB

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100375  
-----

Date: 04/12/2011  
Time: 13:58:30

SUPERVISOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 6237

LOT #: GUTH100  
BOTTLE #: 10260  
EXPIRATION: 10/25/2012

Ca	=	0.1000		
CAL	=	0.979715	0.800	<= CAL < 1.200
b1	=	0.0001	0.0000	<= b1 < 0.0040
b2	=	0.0041	0.0010	<= b2 < 0.0100
b3	=	0.0003	0.0000	<= b3 < 0.0040
Xq	=	0.0913	0.0500	<= Xq < 0.2000
a21	=	1.104953	1.050	<= a21 < 1.300
a31	=	0.439751	0.300	<= a31 < 0.800

4/18/11 BMB

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100375

Date: 04/14/2011  
 Time: 11:50:18

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

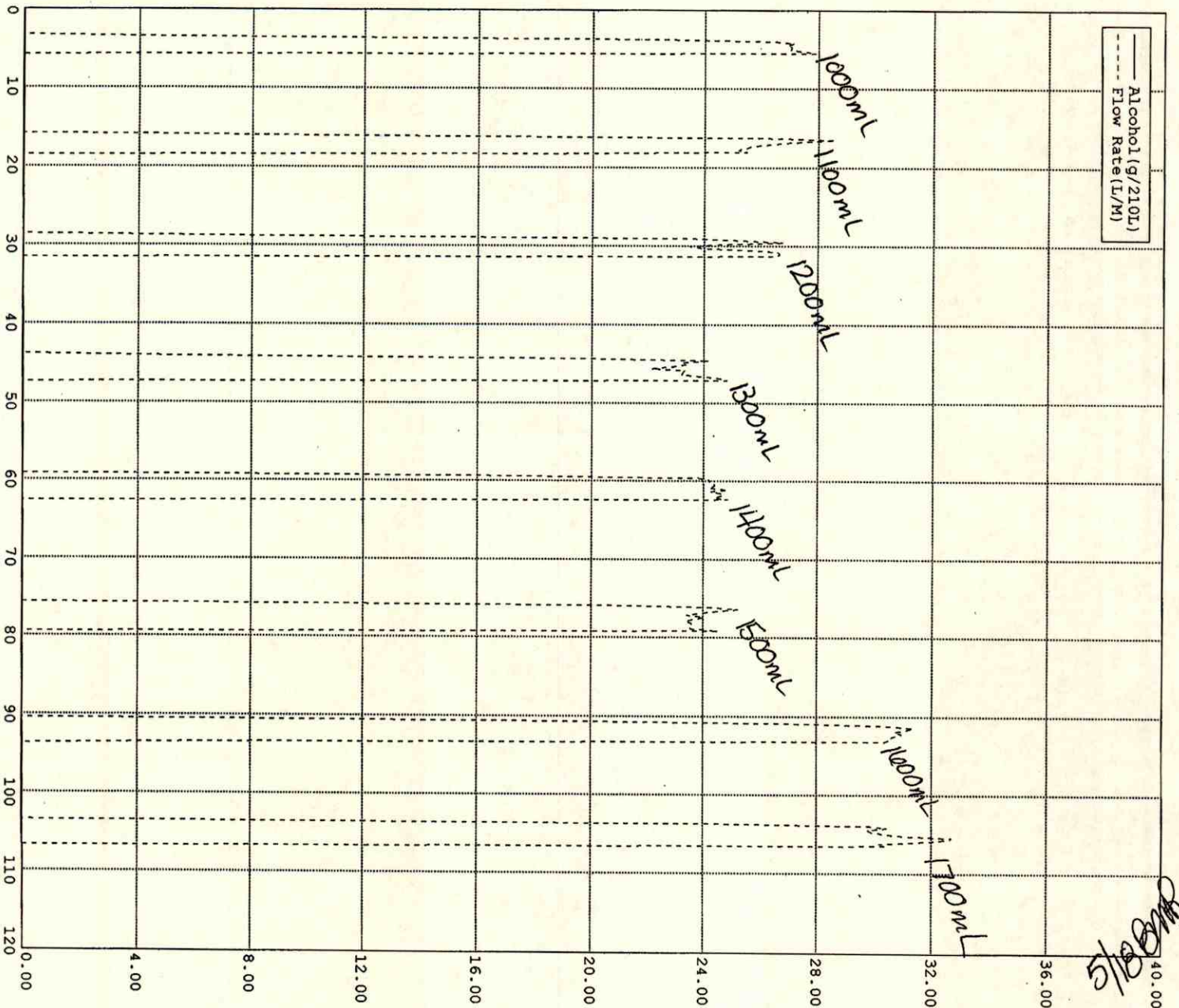
OPERATOR NAME:  
 MINIMUM VOLUME  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.82: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	11:51
BLANK TEST	0.000	11:51
INTERNAL STANDARD	VERIFIED	11:51
EXTERNAL STANDARD	0.083	11:52
BLANK TEST	0.000	11:53
SUBJECT SAMPLE	0.000	11:55
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.081	11:56
BLANK TEST	0.000	11:57

*BMB*



LINEARITY CHECK

Alaska Department of Public Safety  
 DATAMASTER dmt: 100375

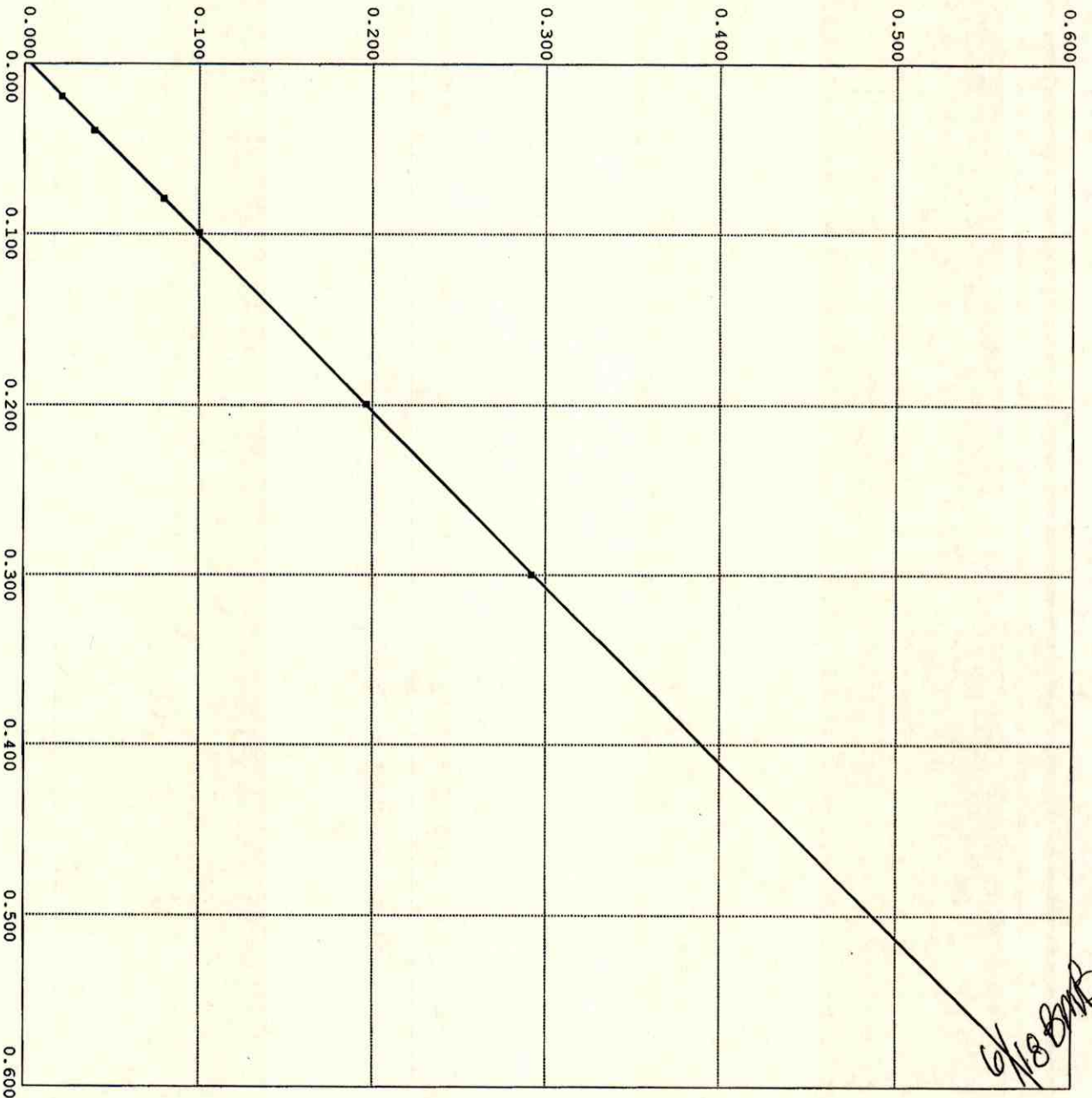
Date: 04/14/2011  
 Time: 12:01:58

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0220	0.0000
0.039	0.0406	0.0005
0.079	0.0804	0.0005
0.099	0.1014	0.0009
0.199	0.1974	0.0005
0.299	0.2926	0.0015

SLOPE = 0.968261  
 R<sup>2</sup> = 0.999951

*Handwritten signature: BMB*



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100375

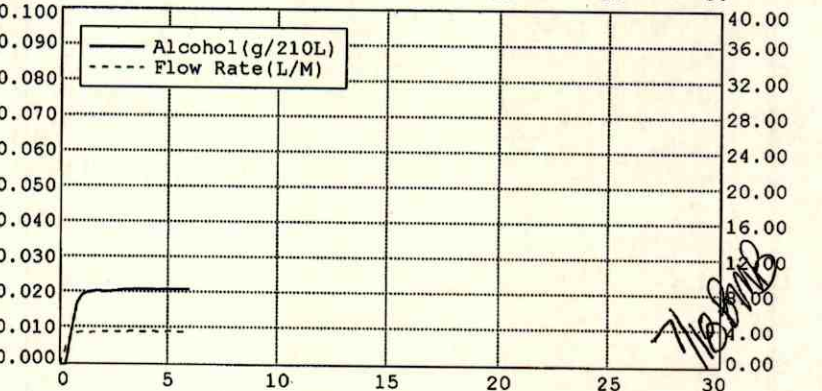
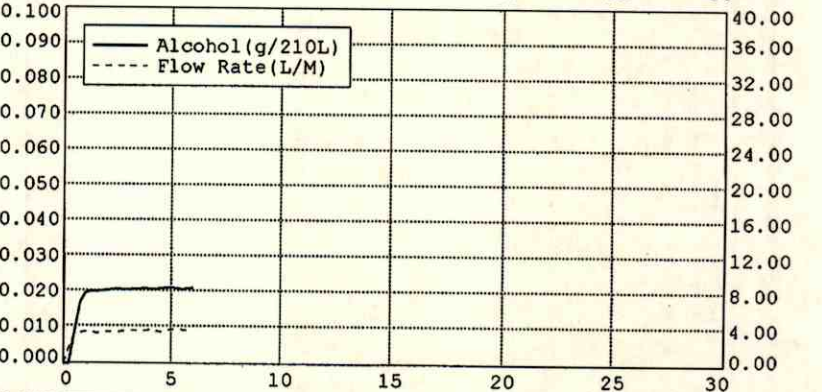
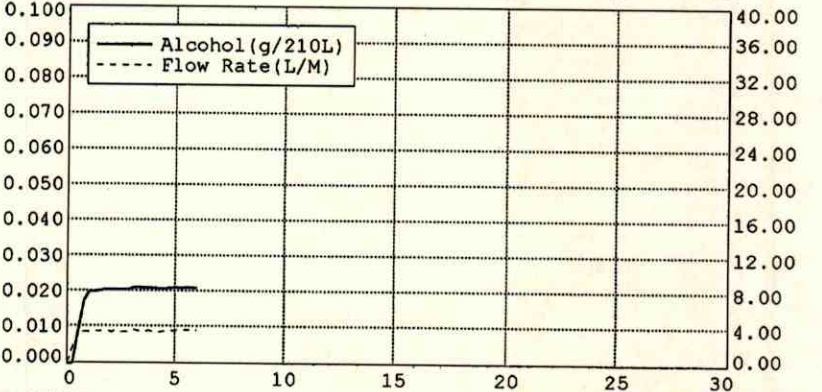
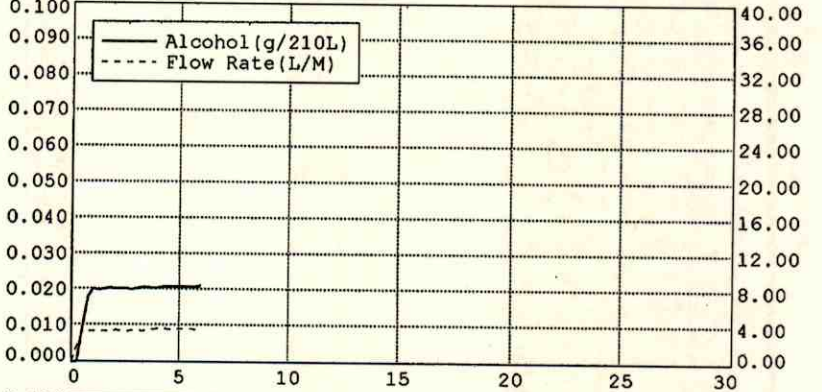
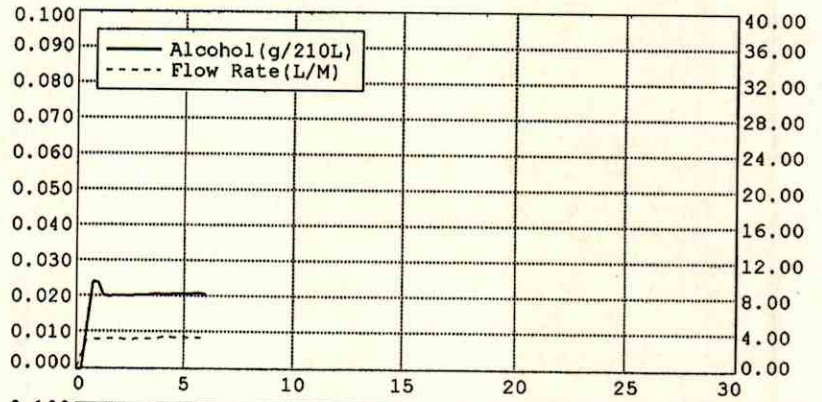
Date: 04/14/2011  
 Time: 12:02:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.83: 0.019  
 LOT #: 02811020A1  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:03
INTERNAL STANDARD	VERIFIED	12:03
EXTERNAL STANDARD	0.022	12:04
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.022	12:05
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.022	12:06
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.022	12:07
BLANK TEST	0.000	12:08
EXTERNAL STANDARD	0.022	12:08
BLANK TEST	0.000	12:09

Average = 0.0220  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100375

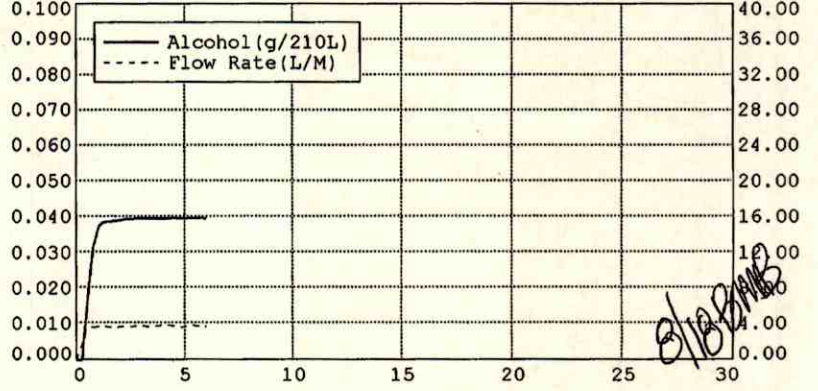
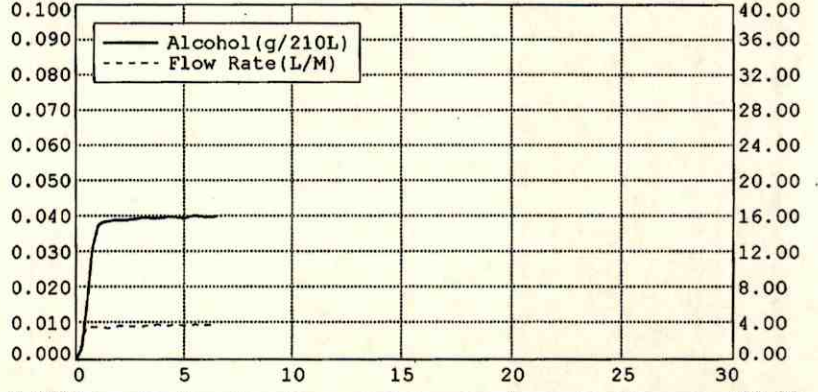
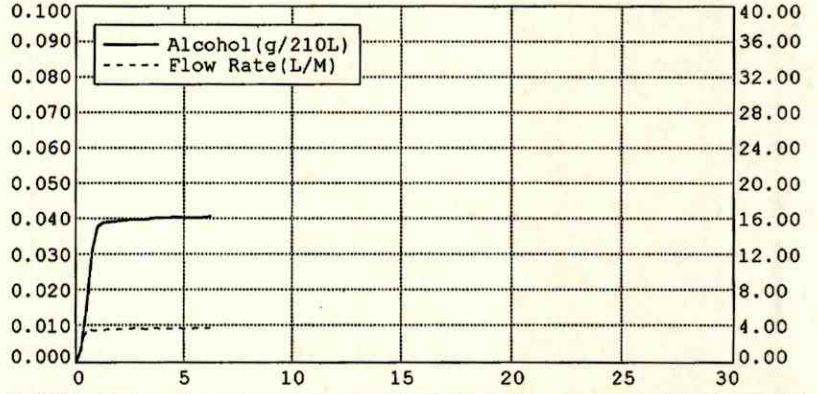
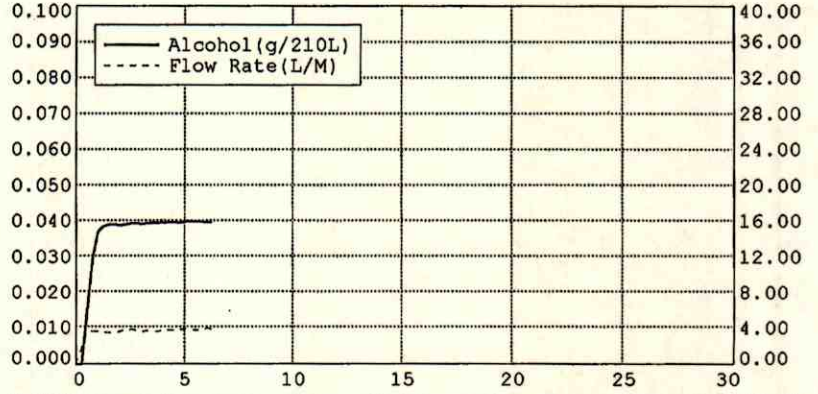
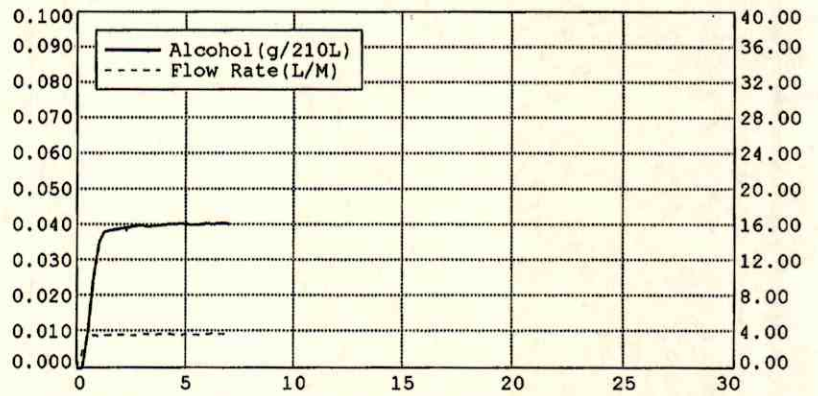
Date: 04/14/2011  
 Time: 12:11:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
 TARGET AT 29.83: 0.039  
 LOT #: 02811040A2  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:12
INTERNAL STANDARD	VERIFIED	12:13
EXTERNAL STANDARD	0.041	12:13
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.040	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.041	12:15
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.041	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.040	12:17
BLANK TEST	0.000	12:18

Average = 0.0406  
 Std Dev = 0.0005





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dmt: 100375

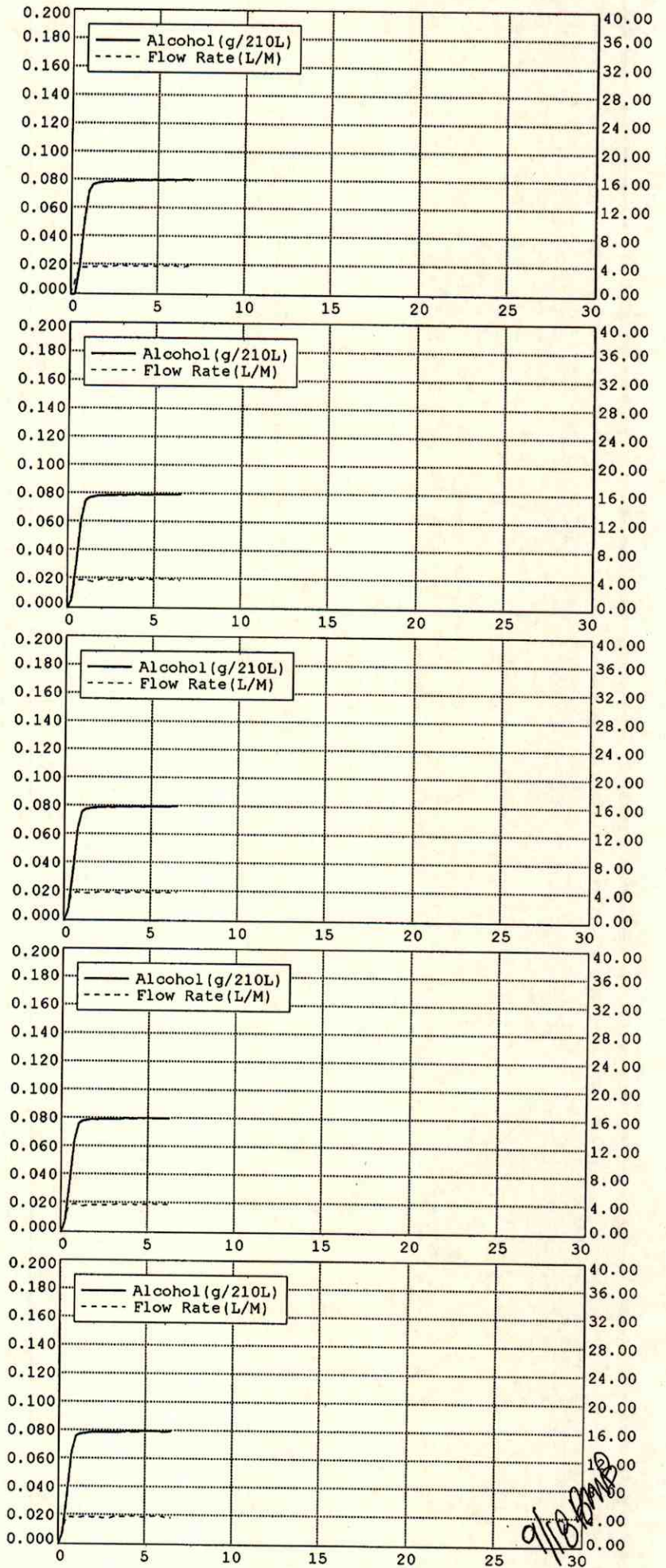
Date: 04/14/2011  
 Time: 12:25:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.84; 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:27
INTERNAL STANDARD	VERIFIED	12:27
EXTERNAL STANDARD	0.081	12:27
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.080	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.080	12:29
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.081	12:30
BLANK TEST	0.000	12:31
EXTERNAL STANDARD	0.080	12:31
BLANK TEST	0.000	12:32

Average = 0.0804  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
 DATAMASTER dmt: 100375

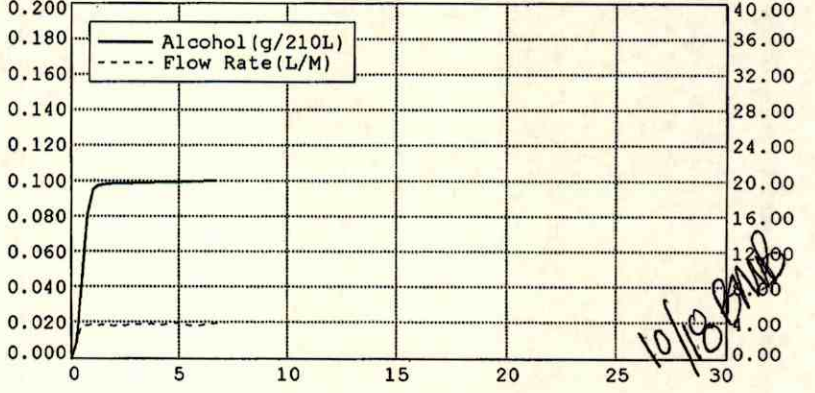
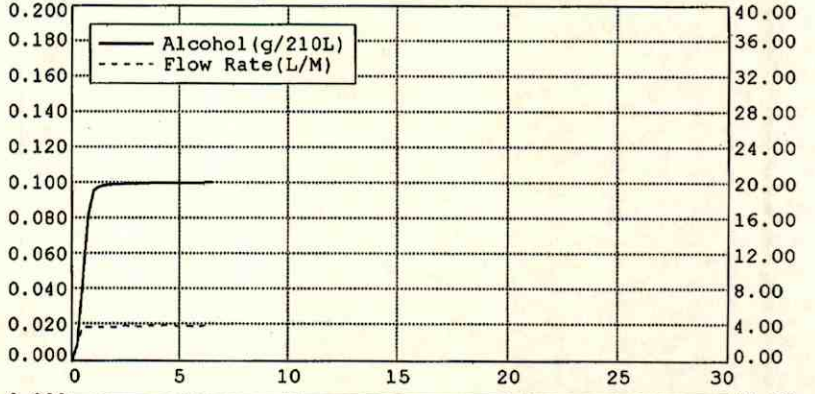
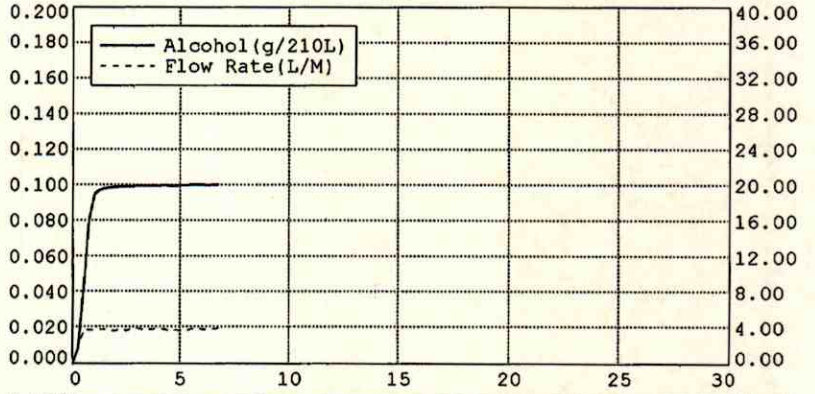
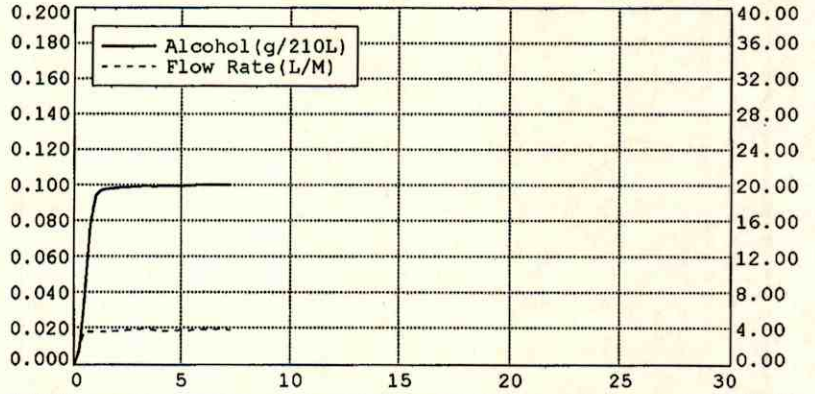
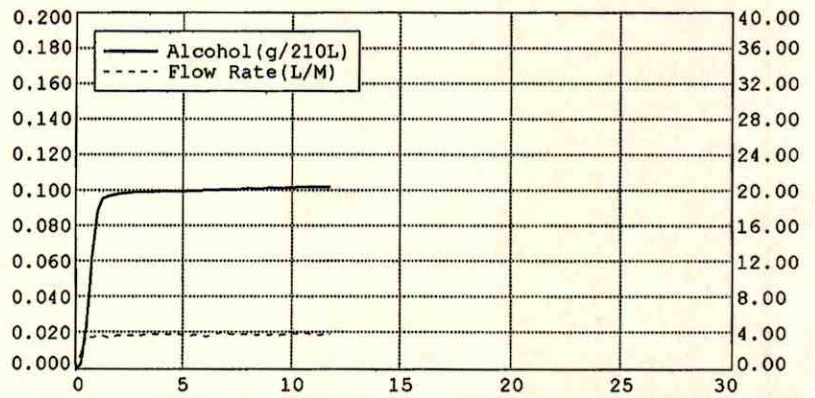
Date: 04/14/2011  
 Time: 12:53:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
 TARGET AT 29.84; 0.099  
 LOT #: 07611100A3  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:54
INTERNAL STANDARD	VERIFIED	12:55
EXTERNAL STANDARD	0.103	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.101	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.101	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.101	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.101	12:59
BLANK TEST	0.000	13:00

Average = 0.1014  
 Std Dev = 0.0009



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
 DATAMASTER dmt: 100375

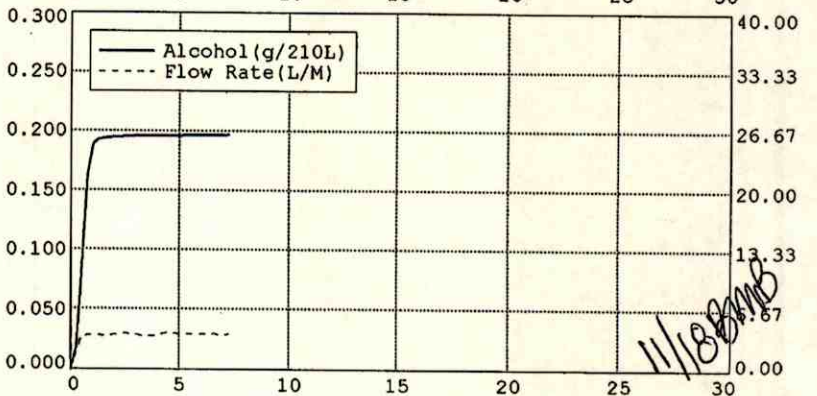
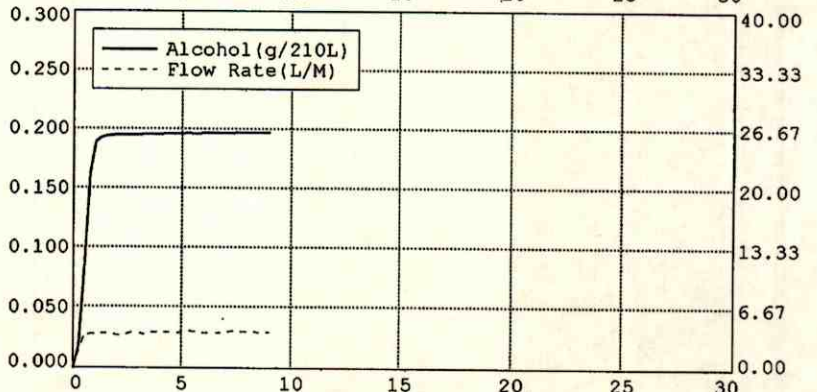
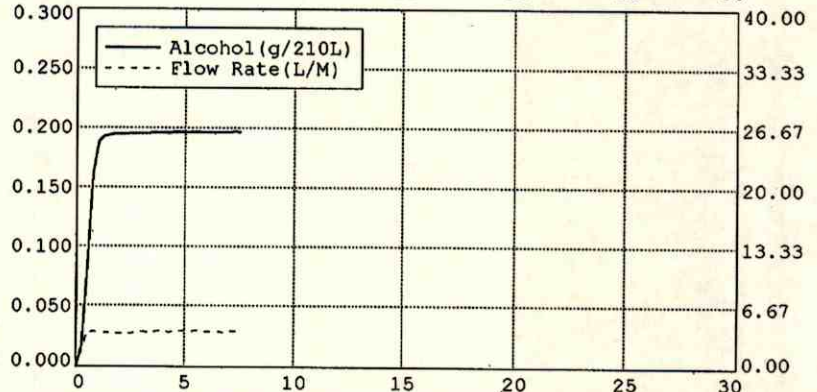
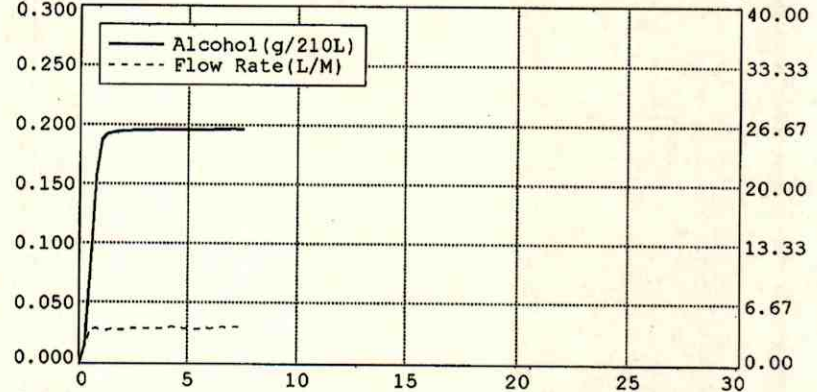
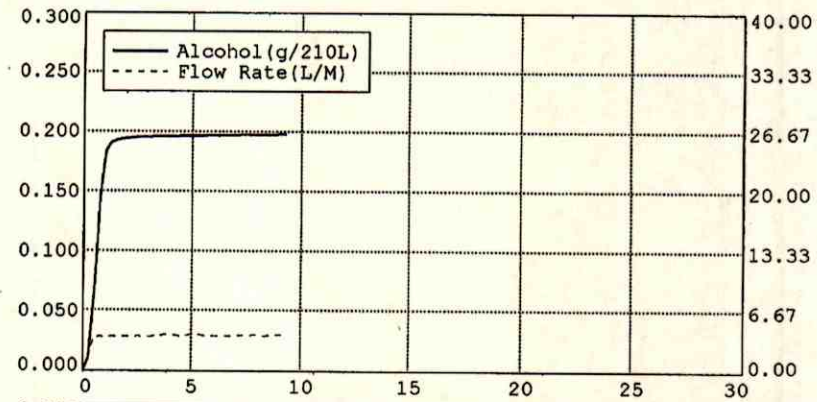
Date: 04/14/2011  
 Time: 13:09:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
 TARGET AT 29.84: 0.199  
 LOT #: 07411200A2  
 EXPIRATION: 03/01/2013

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

Average = 0.1974  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
 DATAMASTER dmt: 100375

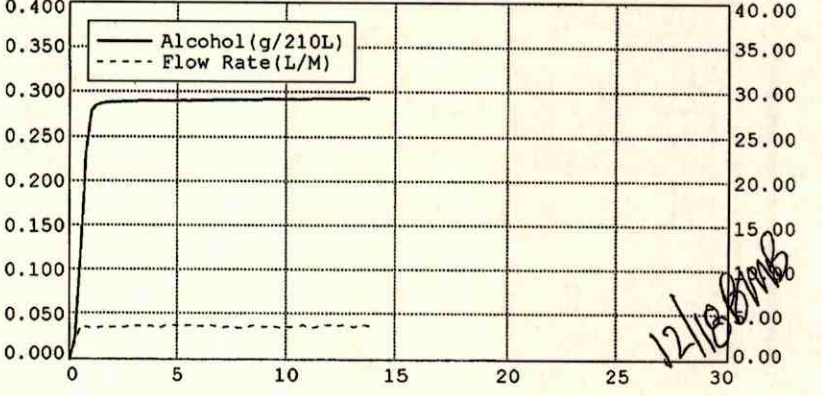
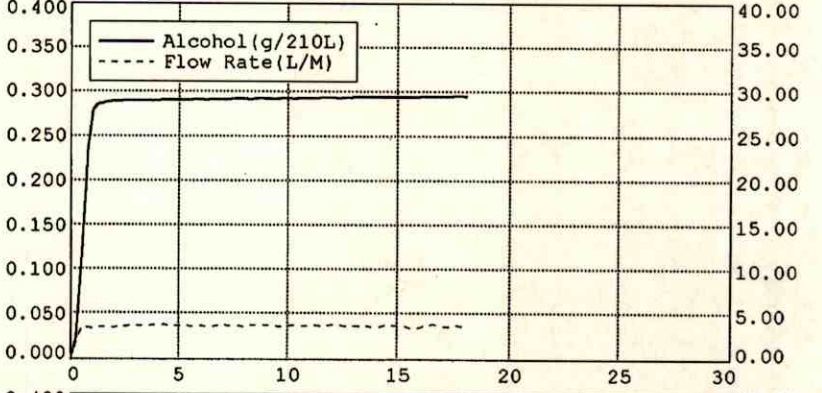
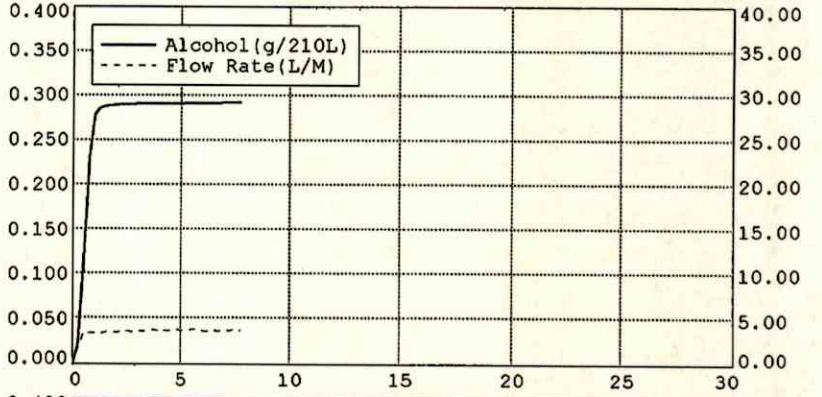
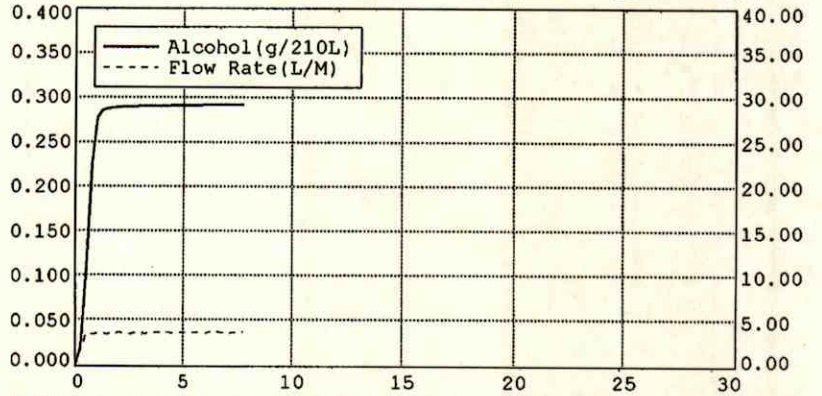
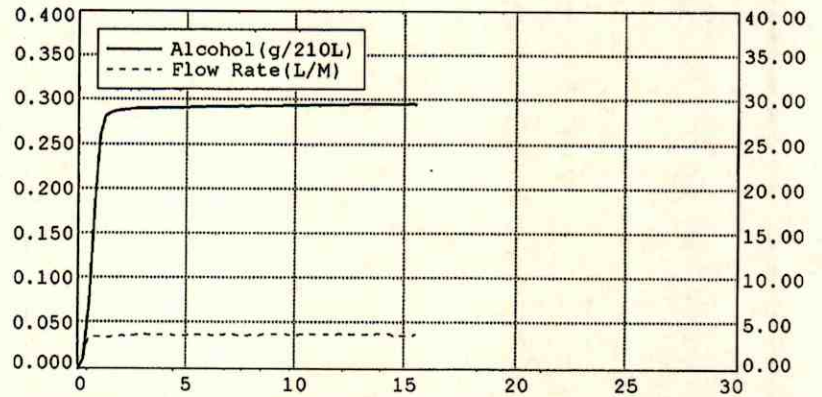
Date: 04/14/2011  
 Time: 13:20:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
 TARGET AT 29.84: 0.299  
 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	0.291	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.291	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.294	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.293	13:27
BLANK TEST	0.000	13:28

Average = 0.2926  
 Std Dev = 0.0015



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100375

Date: 04/14/2011  
Time: 13:35:35

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

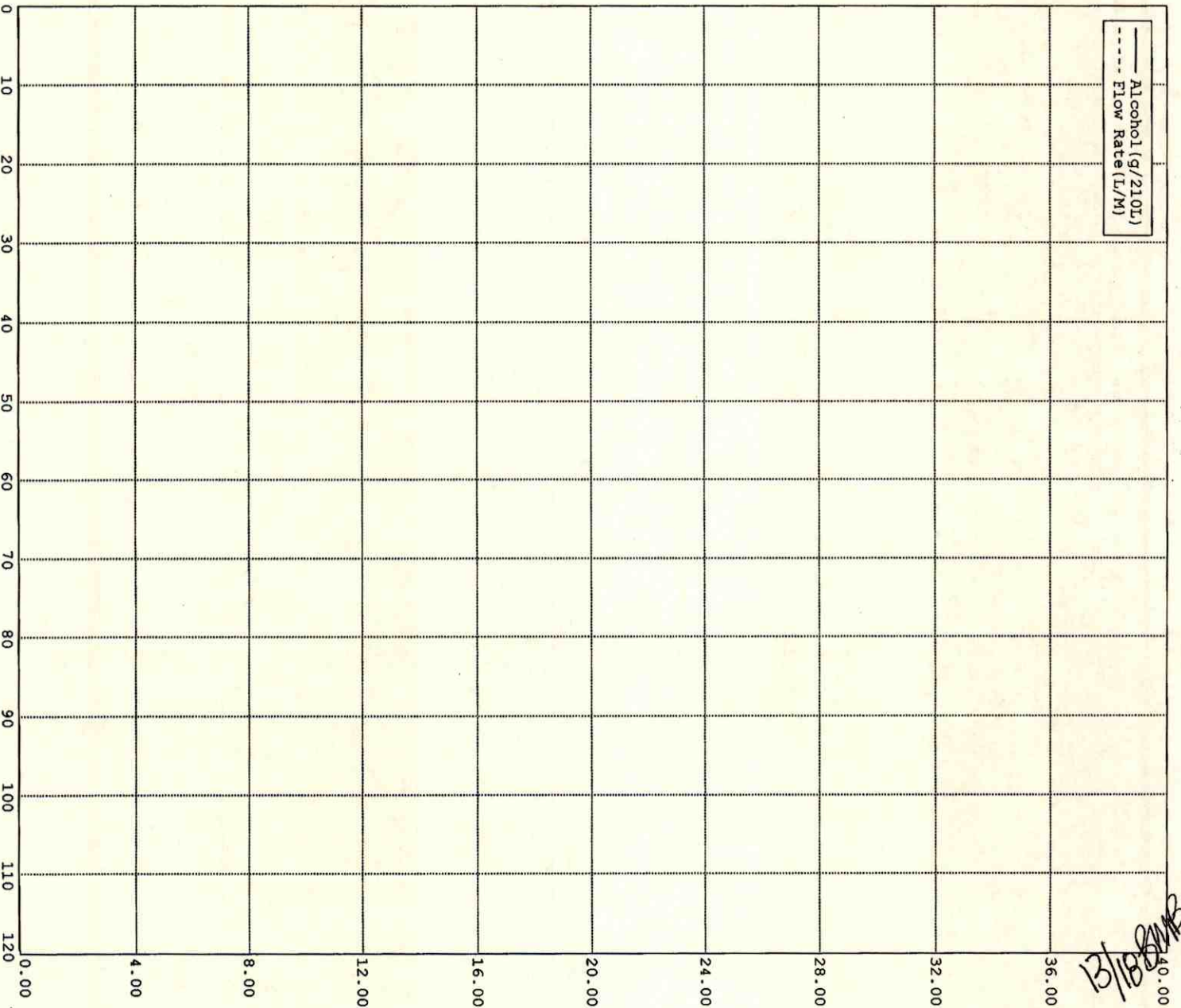
OPERATOR NAME:  
INCOMPLETE XXXX  
OPERATOR'S #: XXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.84: 0.079  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:36
BLANK TEST	0.000	13:36
INTERNAL STANDARD	VERIFIED	13:36
EXTERNAL STANDARD	0.081	13:37
BLANK TEST	0.000	13:38
SUBJECT SAMPLE	INCOMPLETE	13:40

B111B



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100375

Date: 04/14/2011  
Time: 13:42:16

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

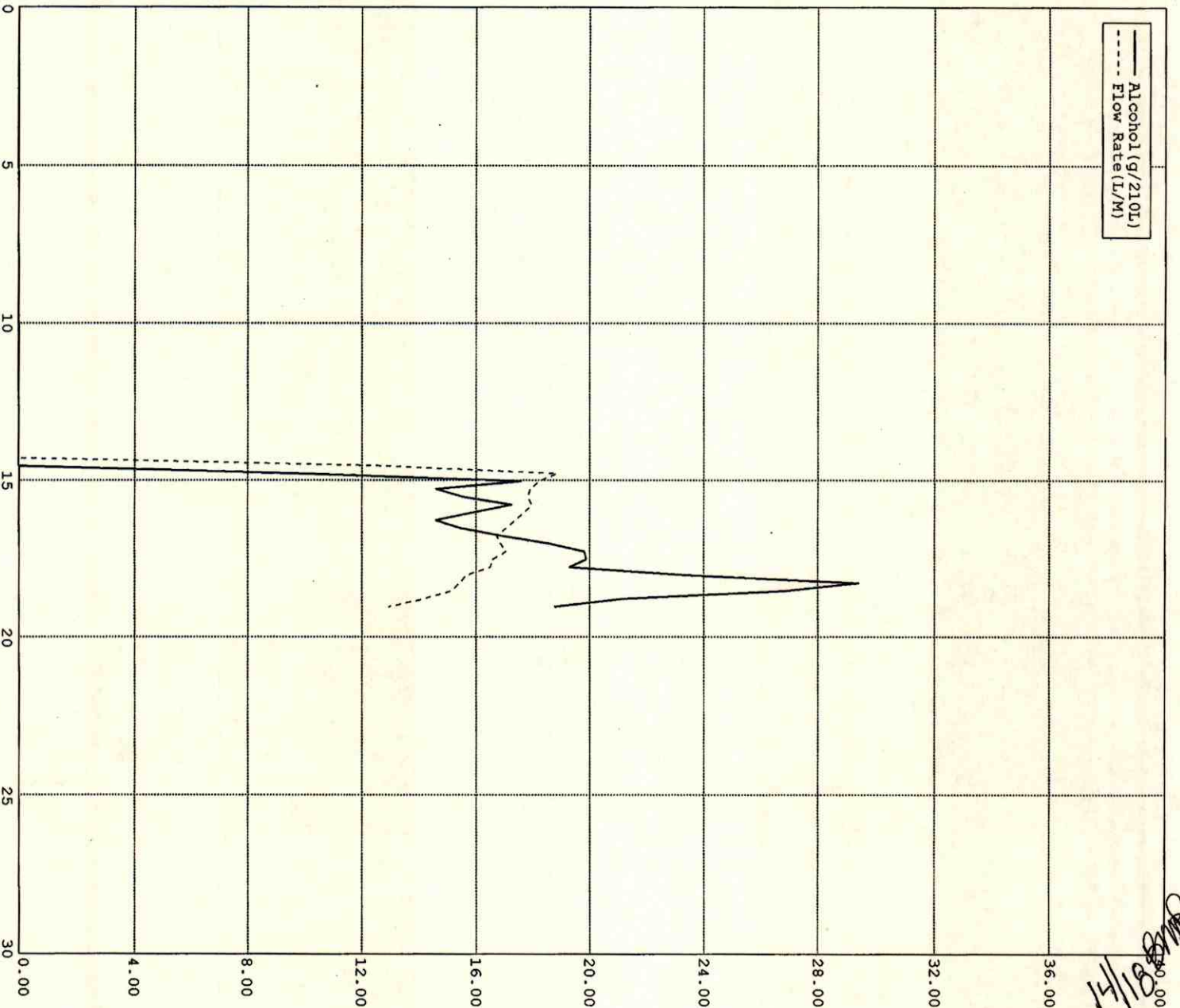
OPERATOR NAME:  
INVALID XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.84: 0.079  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:43
BLANK TEST	0.000	13:43
INTERNAL STANDARD	VERIFIED	13:43
EXTERNAL STANDARD	0.081	13:43
BLANK TEST	0.000	13:44
SUBJECT SAMPLE	Invalid	13:45

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*BBMB*  
*4/14/11*

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100375

Date: 04/14/2011  
 Time: 13:58:31

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTERFERE

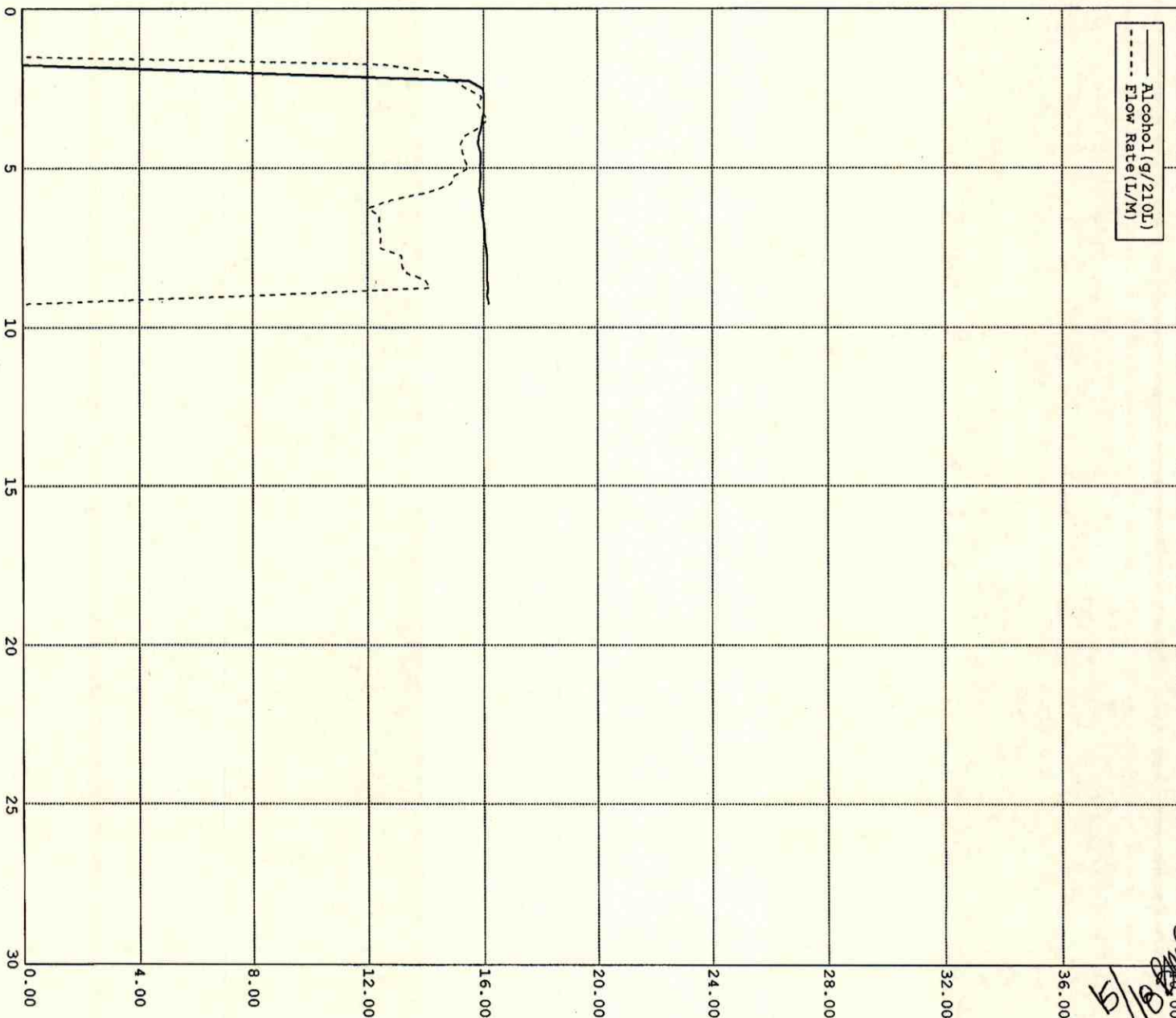
OPERATOR NAME:  
 ETHANOL AND ACETONE  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AP 29.84: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:59
BLANK TEST	0.000	13:59
INTERNAL STANDARD	VERIFIED	14:00
EXTERNAL STANDARD	0.081	14:00
BLANK TEST	0.000	14:01
SUBJECT SAMPLE	INTERFERENCE	14:01

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*5/18/11*

SUBJECT TEST

Alaska Department of Public Safety  
 DATA MASTER dmt: 100375

Date: 04/14/2011  
 Time: 14:04:04

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INTERFERE

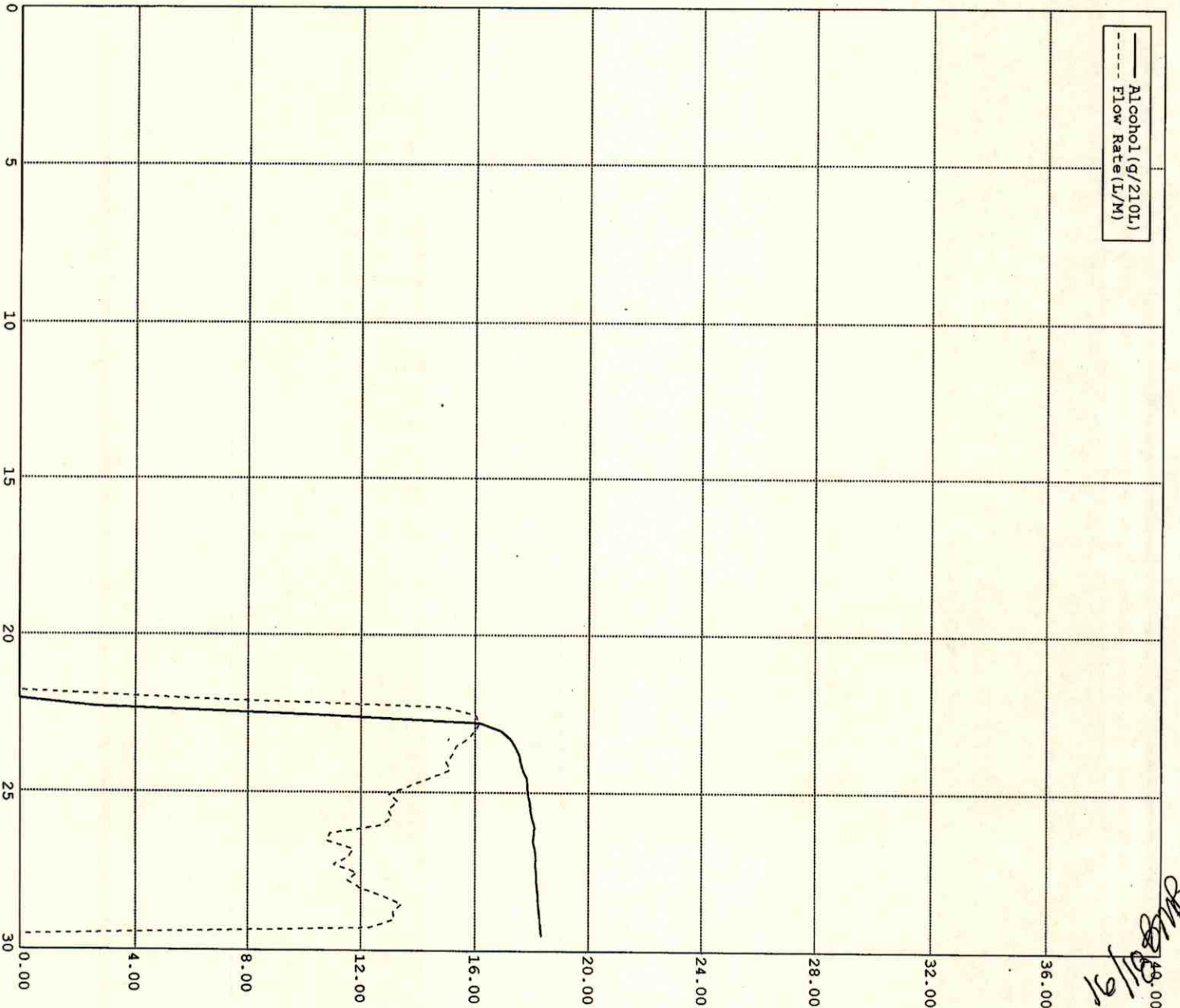
OPERATOR NAME:  
 ETHANOL AND ISOPROPANOL  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.84: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:05
BLANK TEST	0.000	14:05
INTERNAL STANDARD	VERIFIED	14:05
EXTERNAL STANDARD	0.081	14:05
BLANK TEST	0.000	14:06
SUBJECT SAMPLE	INTERFERENCE	14:07

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 16/04/11



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100375

Date: 04/14/2011  
 Time: 13:47:32

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

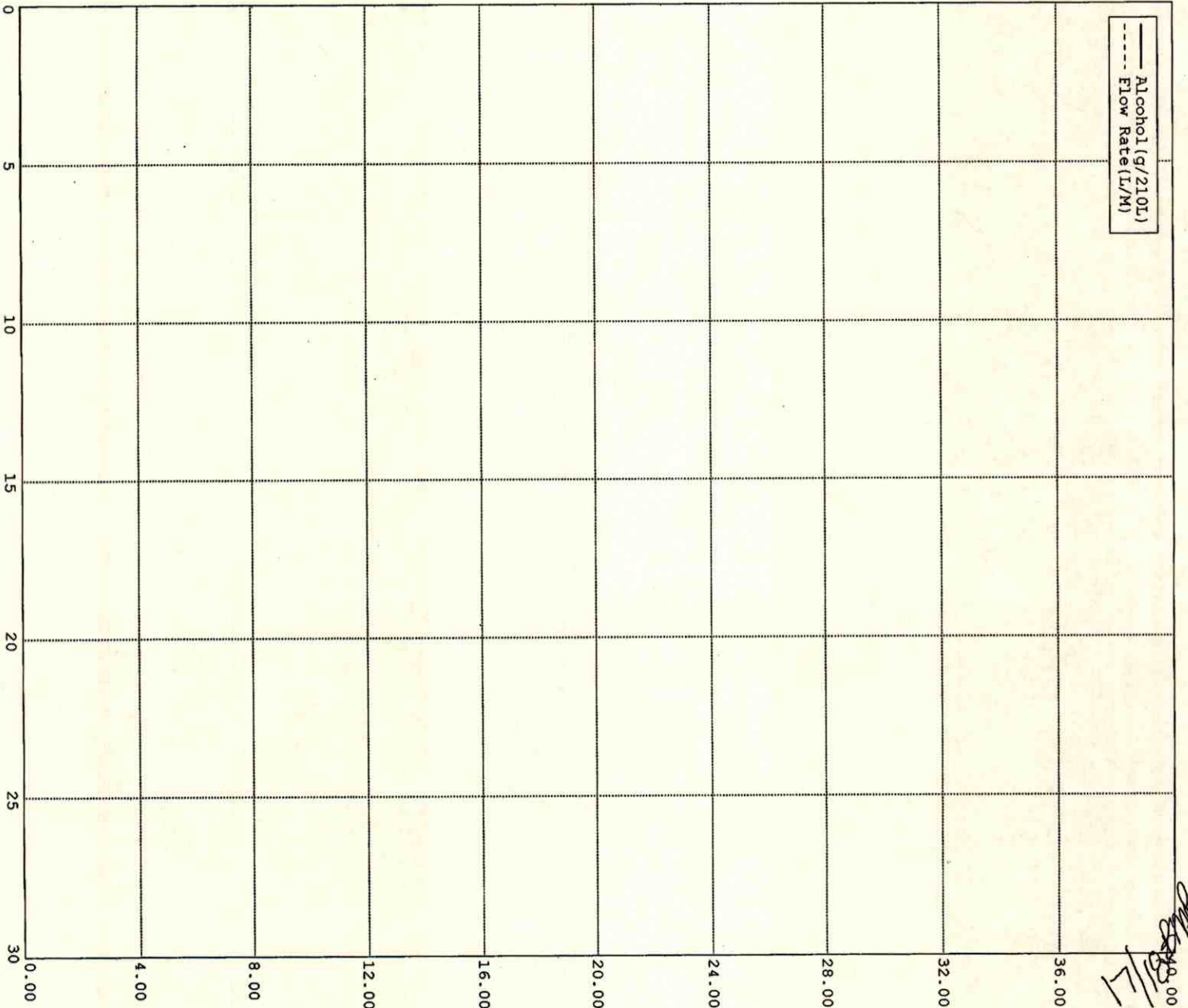
OPERATOR NAME:  
 RADIO INTERFERE  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.84: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:48
BLANK TEST	0.000	13:48
INTERNAL STANDARD	VERIFIED	13:48
EXTERNAL STANDARD	0.080	13:49
BLANK TEST	0.000	13:50

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100375

Date: 04/14/2011  
 Time: 14:24:12

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

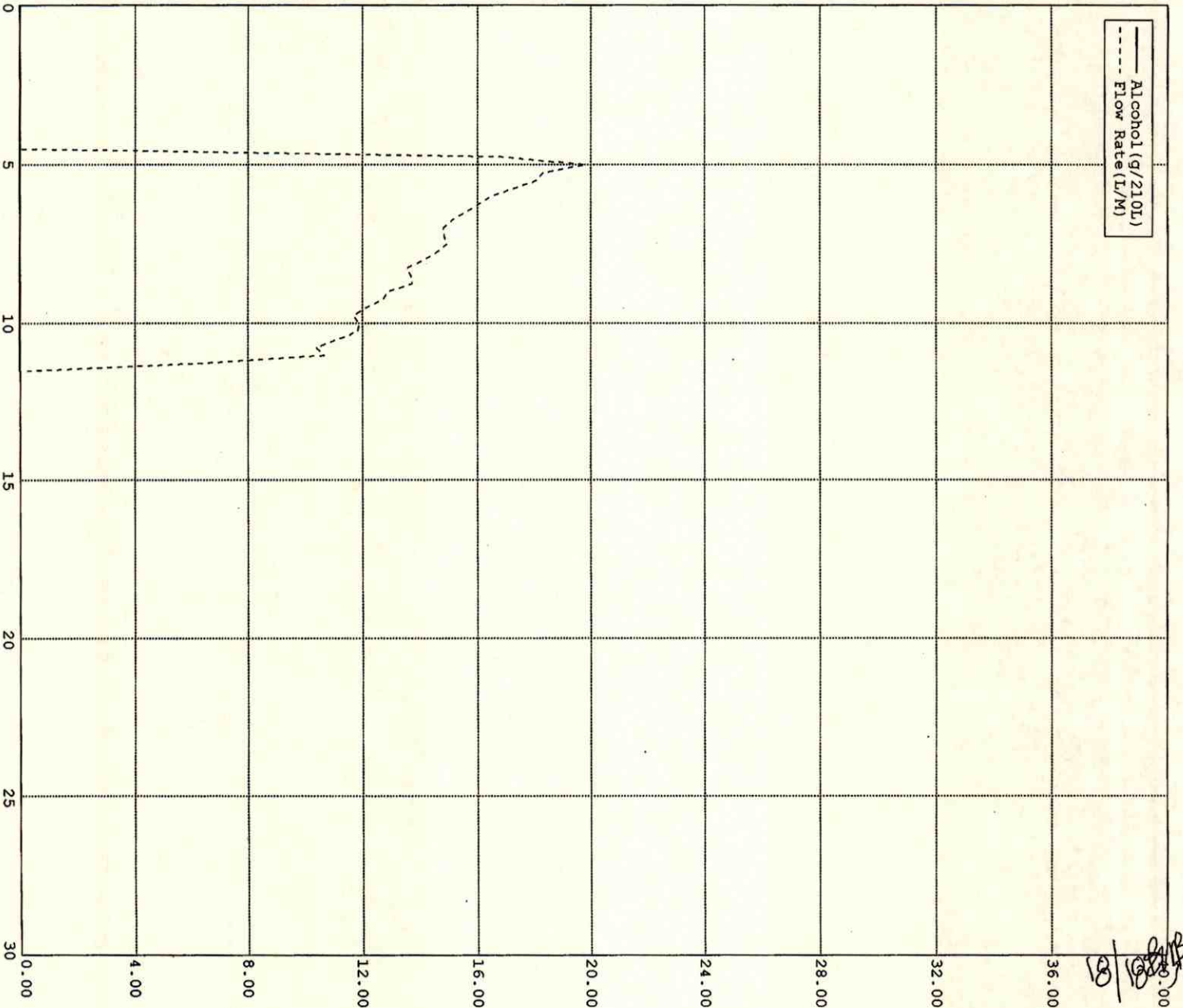
OPERATOR NAME:  
 BRANDI M BARNETT  
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.84: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:25
BLANK TEST	0.000	14:25
INTERNAL STANDARD	VERIFIED	14:25
EXTERNAL STANDARD	0.081	14:25
BLANK TEST	0.000	14:26
SUBJECT SAMPLE	0.000	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.081	14:28
BLANK TEST	0.000	14:29

*BM*



*BM*