	State of Alaska Scientific Crime Detection Laboratory		
	<b>DataMaster Certification Form - DMCEF2011R1</b>		
	Issuing Authority - Nita Bolz, Scientific Director		
Approval date: 03/10/11		Effective date: 03/10/11	Archive date: Active

**DataMaster DMT Certification Form**Instrument # 100416Analyst CRFDate 6/21/11

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 02811020A1 Exp 2/1/2013
- ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/2013
- iii. 0.080g/210L Mnf ILMO Lot 02511080A3 Exp 2/1/2013
- iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/2013
- v. 0.200g/210L Mnf ILMO Lot 02811200A3 Exp 2/1/2013
- vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 3/1/2013

## 6. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference

- i. Acetone - Mnf Repro Lot 09805 Level 0.080 Exp 11/4/2011
  1. Simulator Calibration Date 10/18/2010 SN DR 6267
- ii. Isopropanol - Mnf Repro Lot 09805 Level 0.080 Exp 11/4/2011
  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)

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CRF

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100416  
-----

Date: 06/21/2011  
Time: 09:50:16

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED  
Breath Tube = 48.1°C PASSED

PUMP INFO  
Flow Rate = 5.029 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

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CWE

Technician Screen

-----  
DATAMASTER dmt: 100416  
-----

Date: 06/21/2011  
Time: 9:58 AM

Temperatures (°C)

Sample Cell: 48.7°C  
Breath Tube: 47.8°C

Current Barometer 29.9 in  
Volume (Ltr) 1.57

Settings

Lamp: 1.71 V  
Bias: 82 V  
Cooler: 1.63 V  
Chopper: 530 Hz

Voltages (V)

Flow: 1.06 V  
Detector: 0.020 V

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CAF

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100416  
-----

Date: 05/03/2011  
Time: 14:30:54

Ca = 0.1000  
CAL = 0.991812    0.800 <= CAL < 1.200  
b1 = 0.0002    0.0000 <= b1 < 0.0040  
b2 = 0.0037    0.0010 <= b2 < 0.0100  
b3 = 0.0000    0.0000 <= b3 < 0.0040  
Xq = 0.0855    0.0500 <= Xq < 0.2000  
a21 = 1.194383    1.050 <= a21 < 1.300  
a31 = 0.559018    0.300 <= a31 < 0.800

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CAF

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100416

Date: 06/21/2011  
 Time: 10:25:19

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

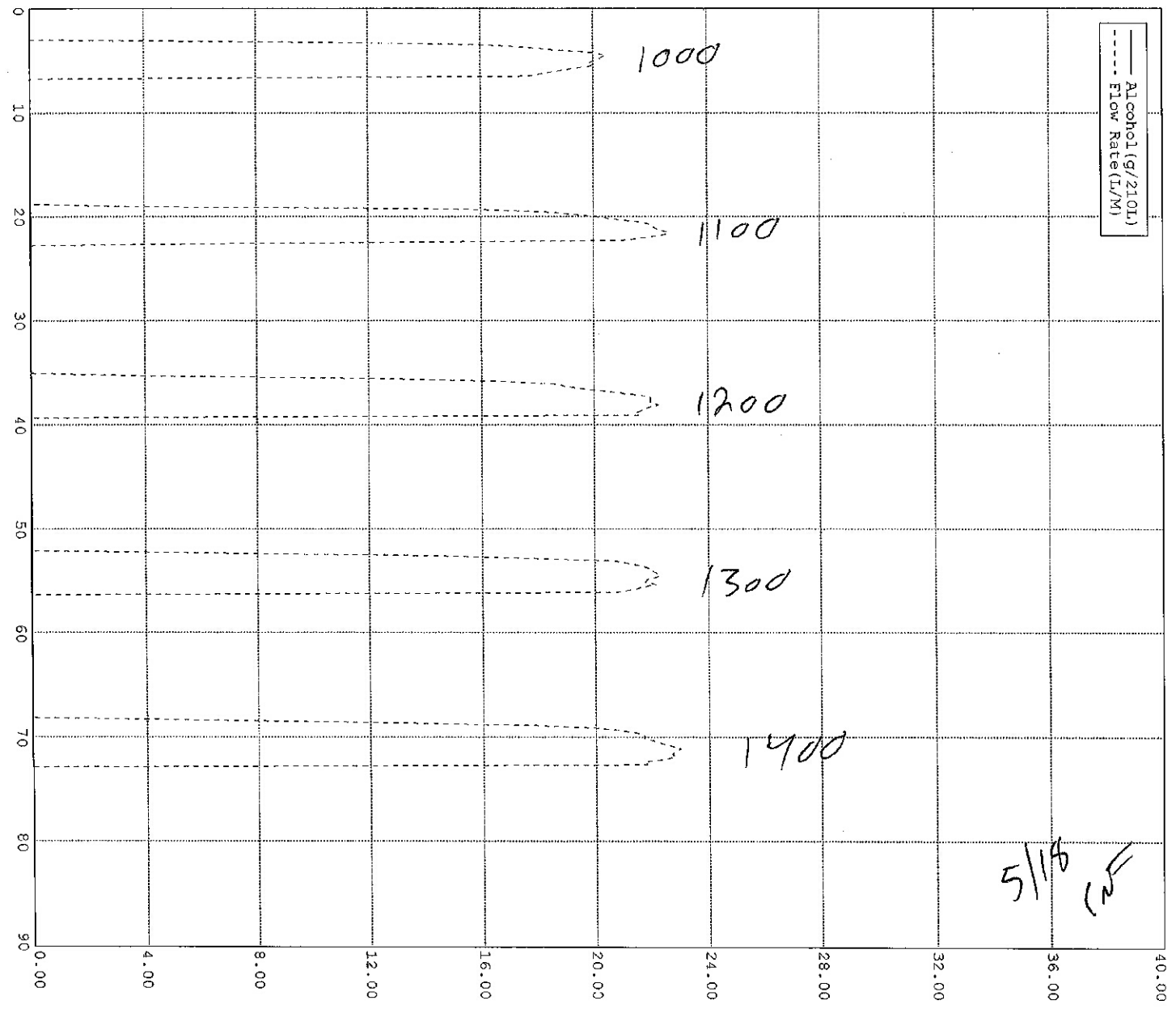
OPERATOR NAME:  
 MINIMUM VOLUME  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.87: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:26
BLANK TEST	0.000	10:26
INTERNAL STANDARD	VERIFIED	10:26
EXTERNAL STANDARD	0.081	10:26
BLANK TEST	0.000	10:27
SUBJECT SAMPLE	0.000	10:29
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.082	10:30
BLANK TEST	0.000	10:31

CRF



LINEARITY CHECK

Alaska Department of Public Safety  
DATAMASTER dmt: 100416

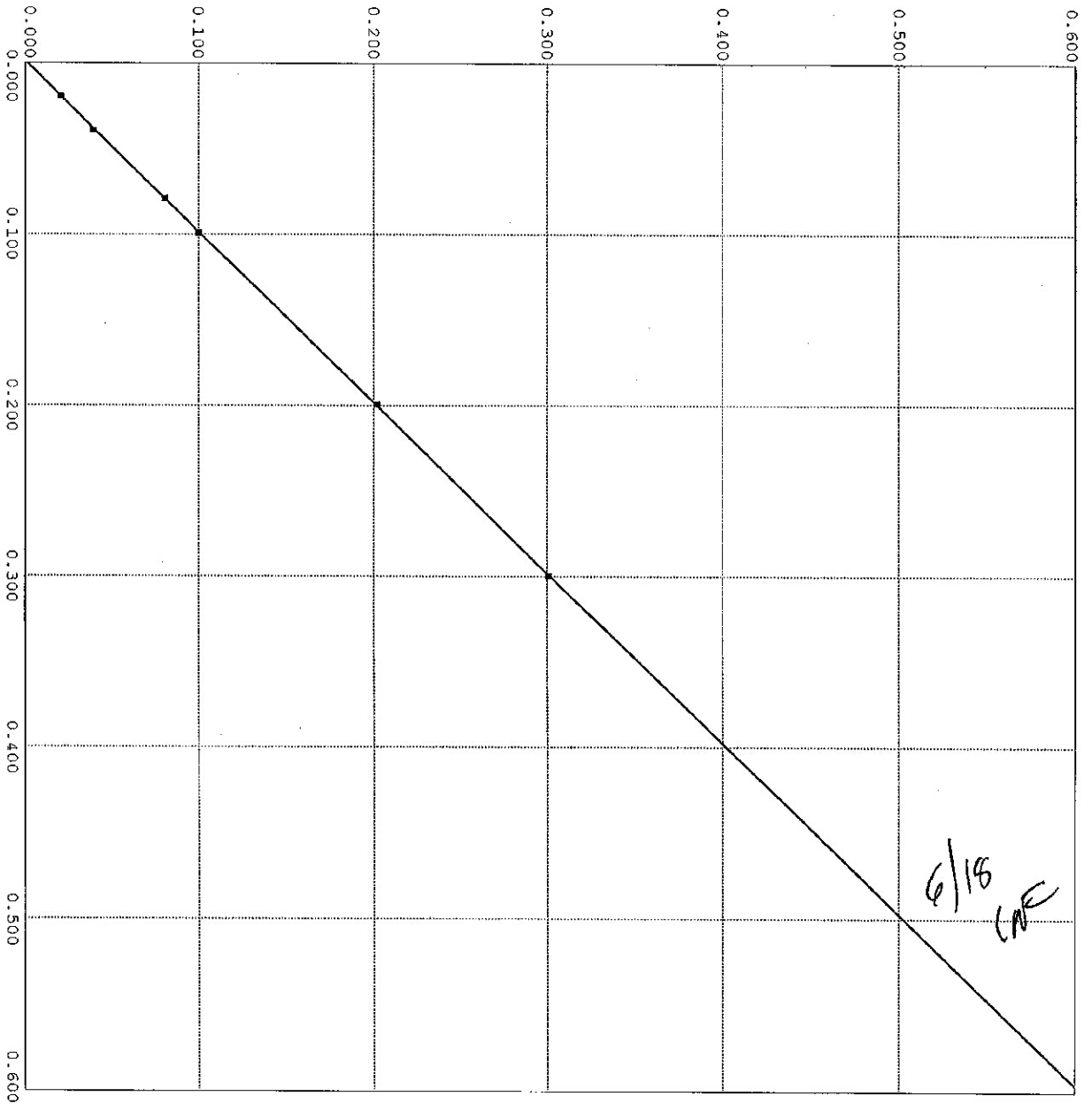
Date: 06/21/2011  
Time: 10:40:37

SUPERVISOR NAME:  
CHARLES FOSTER  
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0210	0.0000
0.039	0.0400	0.0000
0.079	0.0812	0.0004
0.099	0.1008	0.0004
0.199	0.2026	0.0009
0.299	0.3014	0.0013

SLOPE = 1.004772  
R<sup>2</sup> = 0.999980

CRF



LINEARITY CHECK: Control Test 1

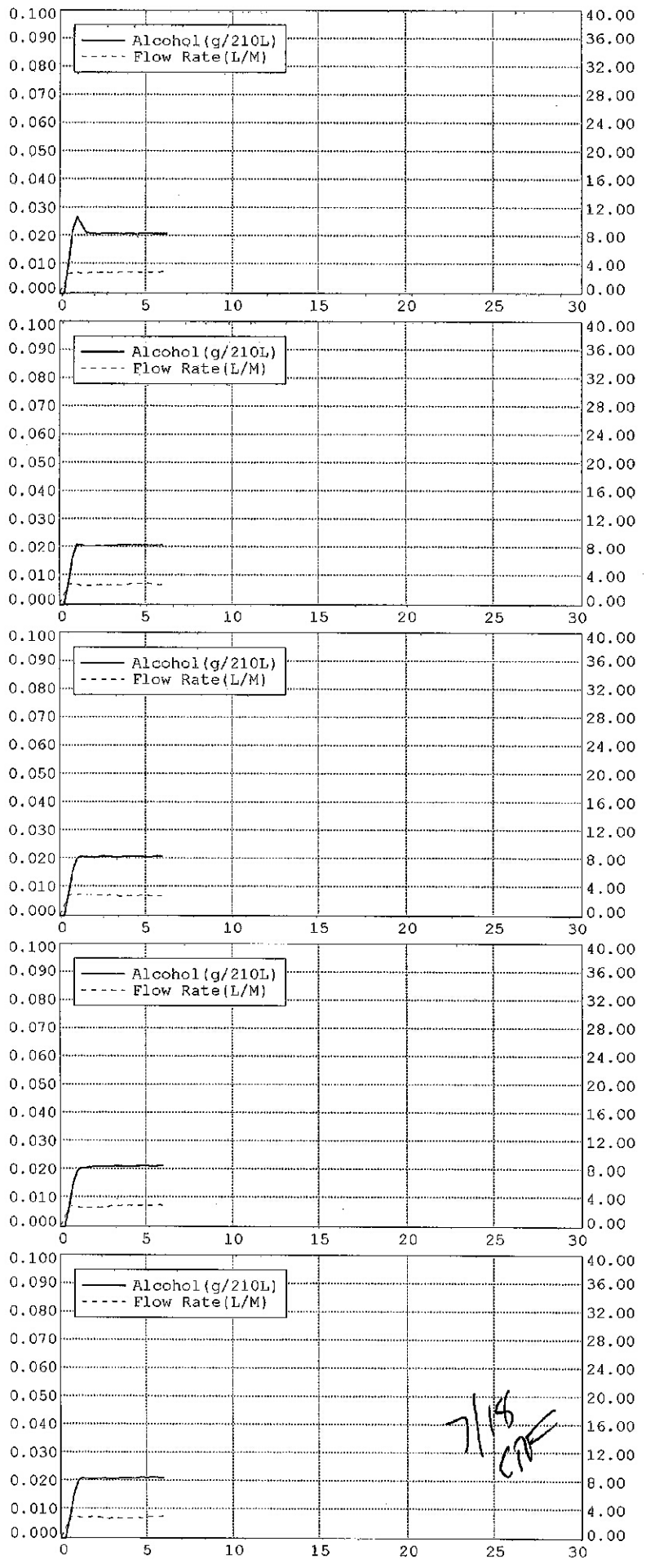
Alaska Department of Public Safety  
DATAMASTER dmt: 100416

Date: 06/21/2011  
Time: 10:40:39

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.020  
TARGET AT 29.87: 0.019  
LOT #: 02811020A1  
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:42
INTERNAL STANDARD	VERIFIED	10:42
EXTERNAL STANDARD	0.021	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.021	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.021	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.021	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.021	10:47
BLANK TEST	0.000	10:48

Average = 0.0210  
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

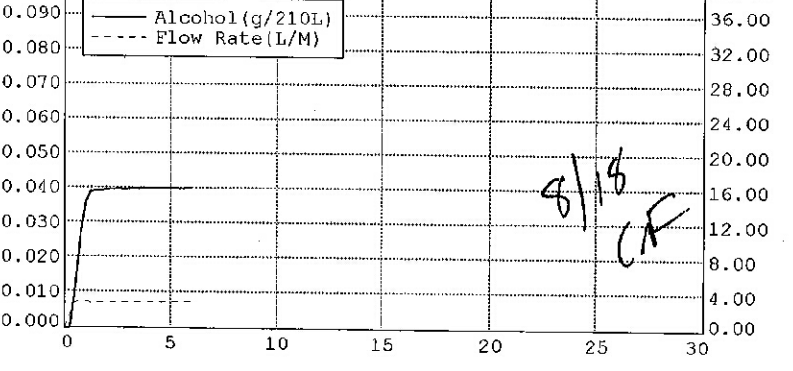
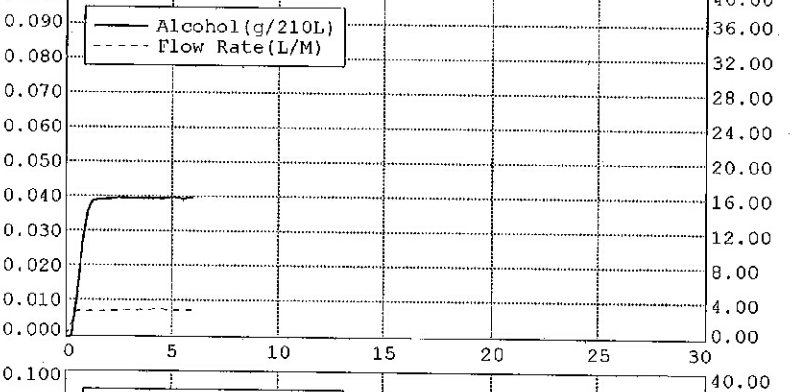
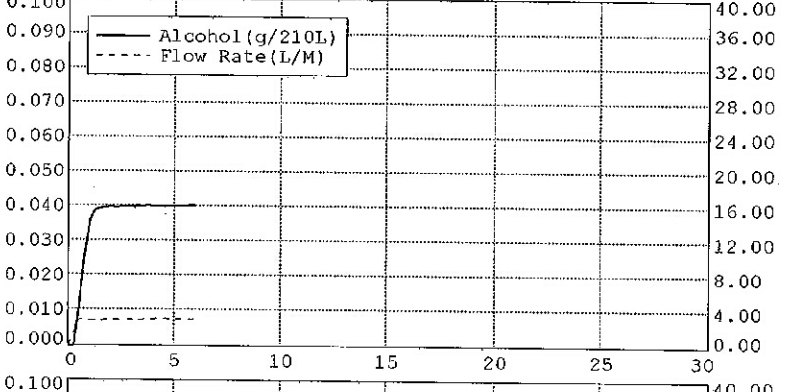
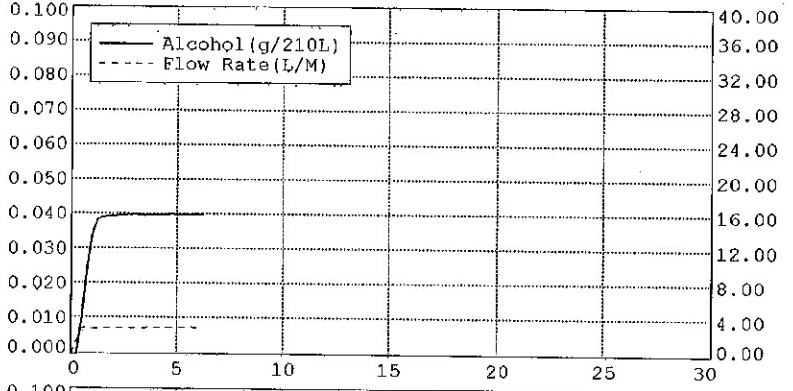
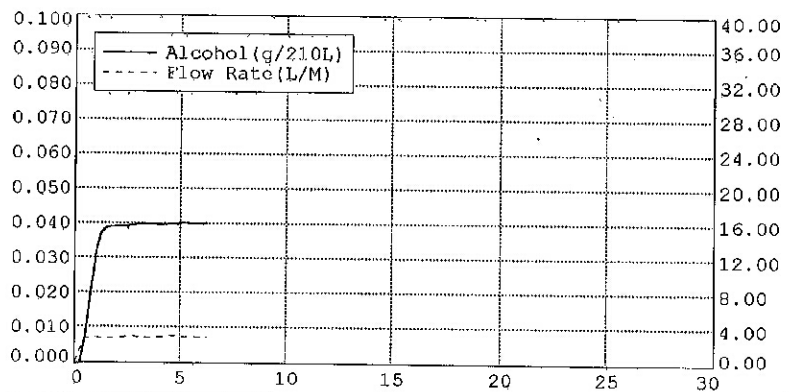
Alaska Department of Public Safety  
DATAMASTER dmt: 100416

Date: 06/21/2011  
Time: 10:49:06

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.040  
TARGET AT 29.87: 0.039  
LOT #: 02811040A2  
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:51
INTERNAL STANDARD	VERIFIED	10:51
EXTERNAL STANDARD	0.040	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.040	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.040	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.040	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.040	10:55
BLANK TEST	0.000	10:56

Average = 0.0400  
Std Dev = 0.0000





LINEARITY CHECK: Control Test 3

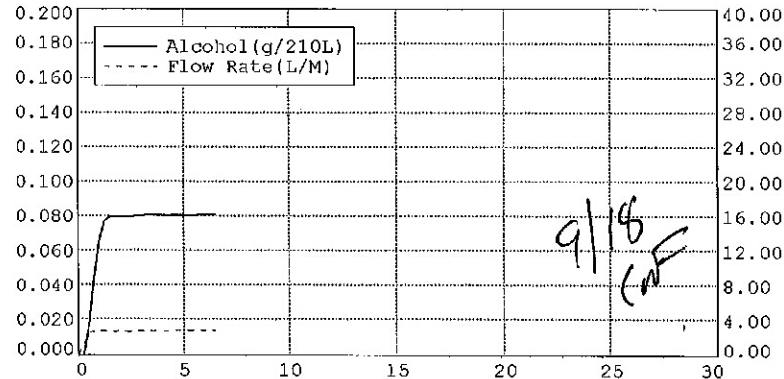
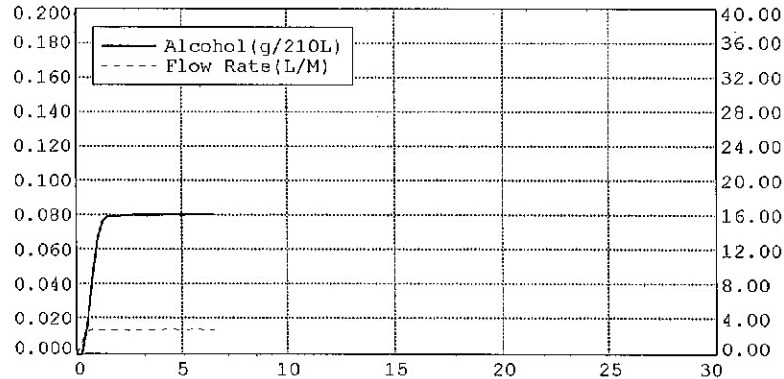
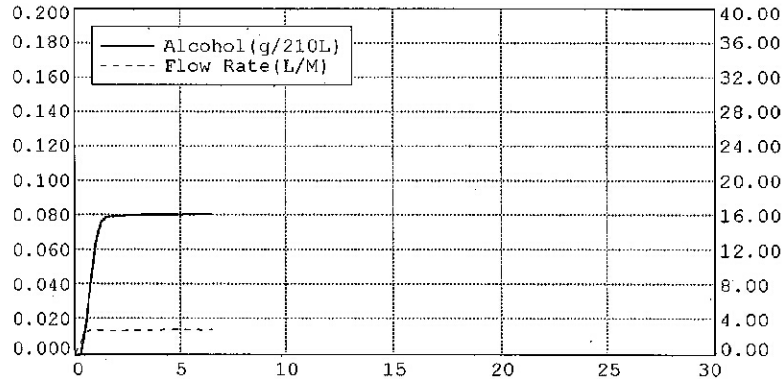
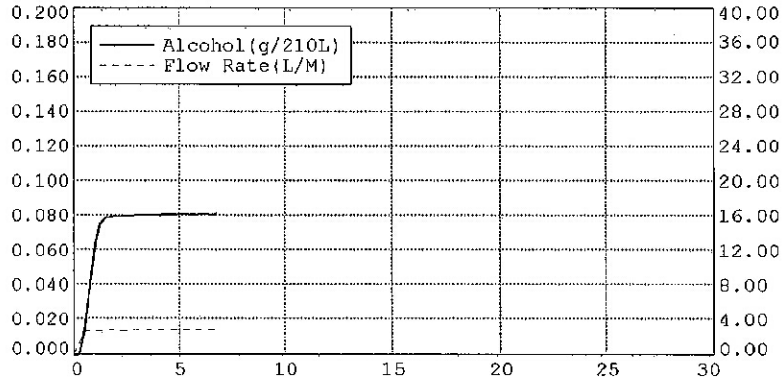
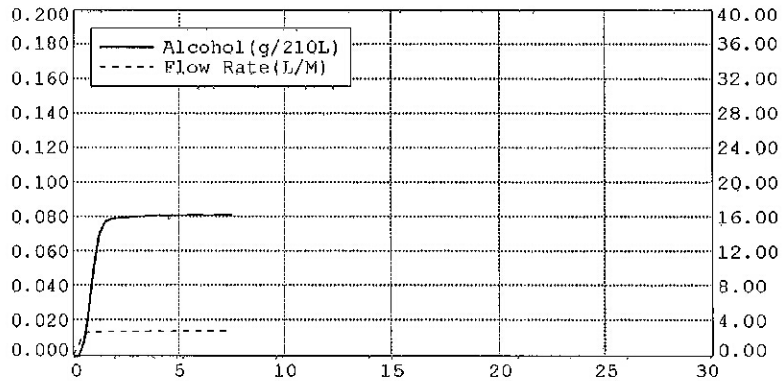
Alaska Department of Public Safety  
 DATAMASTER dnt: 100416

Date: 06/21/2011  
 Time: 10:57:44

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.87: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:59
INTERNAL STANDARD	VERIFIED	10:59
EXTERNAL STANDARD	0.082	10:59
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.081	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.081	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.081	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.081	11:04
BLANK TEST	0.000	11:05

Average = 0.0812  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

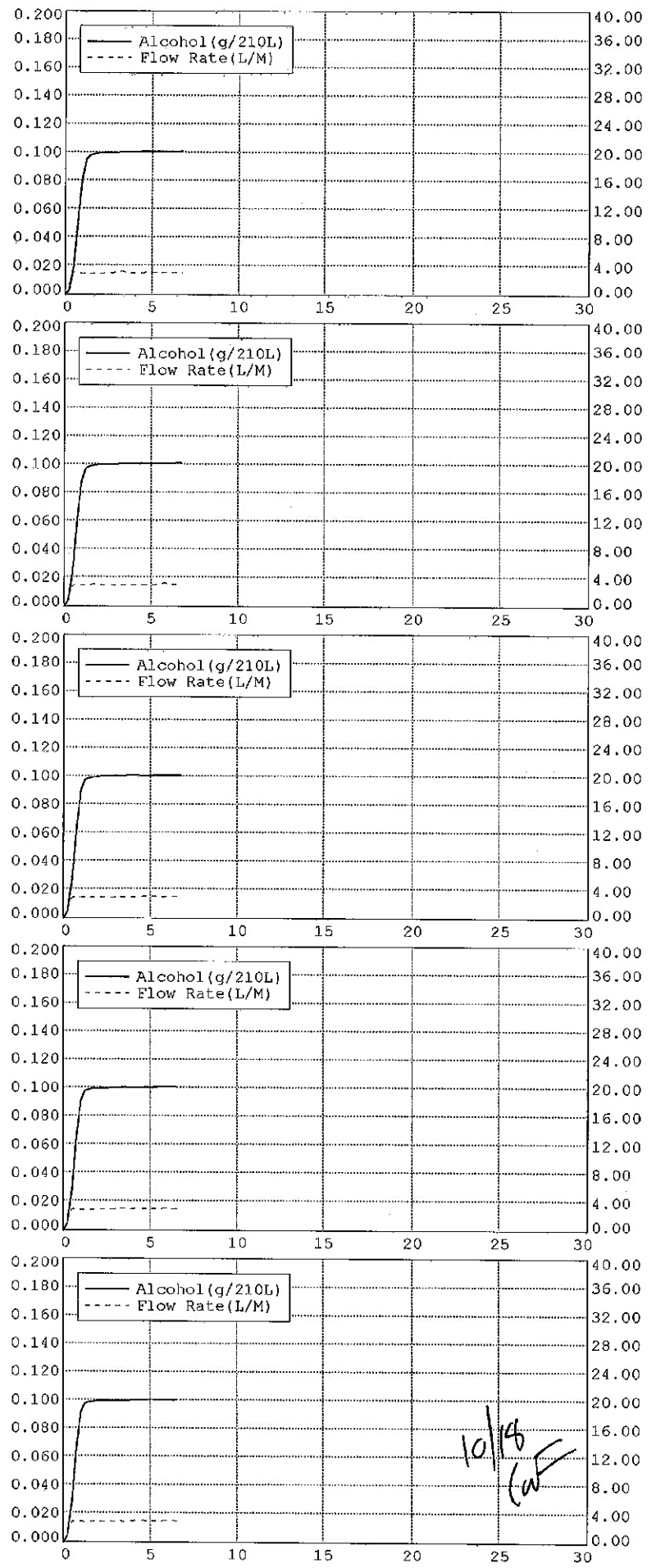
Alaska Department of Public Safety  
DATAMASTER dmt: 100416

Date: 06/21/2011  
Time: 11:06:11

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.100  
TARGET AT 29.86: 0.099  
LOT #: 05611100A2  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:08
EXTERNAL STANDARD	0.101	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.101	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.101	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.101	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.100	11:13
BLANK TEST	0.000	11:14

Average = 0.1008  
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
 DATAMASTER dmt: 100416

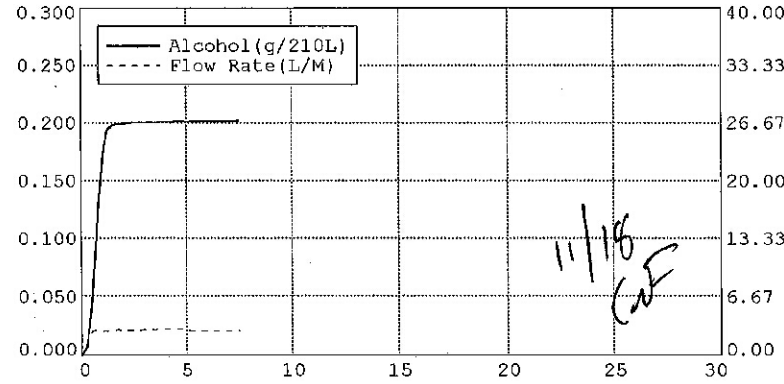
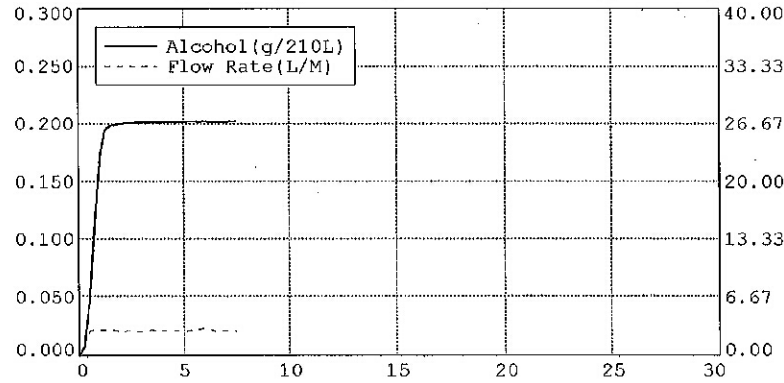
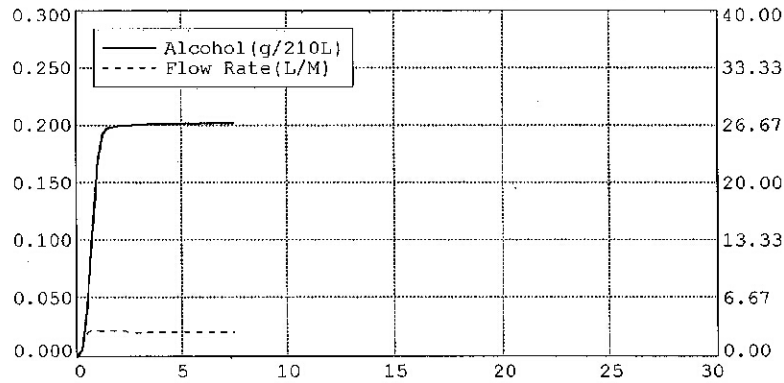
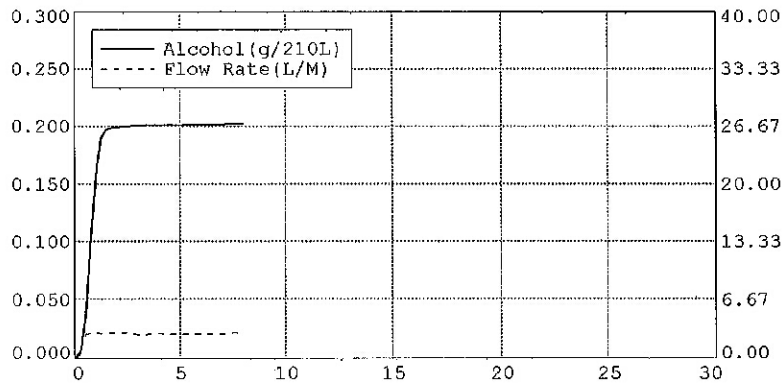
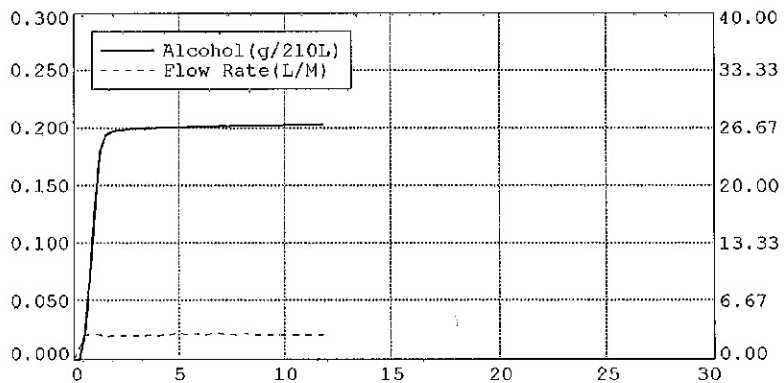
Date: 06/21/2011  
 Time: 11:16:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
 TARGET AT 29.87: 0.199  
 LOT #: 02811200A3  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	11:18
INTERNAL STANDARD	VERIFIED	11:18
EXTERNAL STANDARD	0.204	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.202	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.202	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.203	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.202	11:24
BLANK TEST	0.000	11:25

Average = 0.2026  
 Std Dev = 0.0009



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
 DATAMASTER dnt: 100416

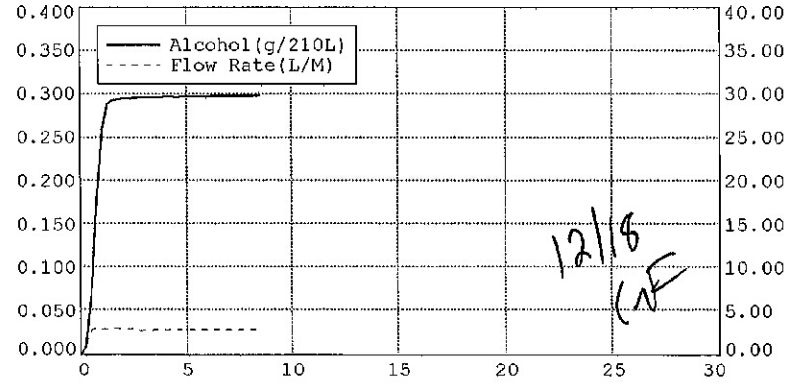
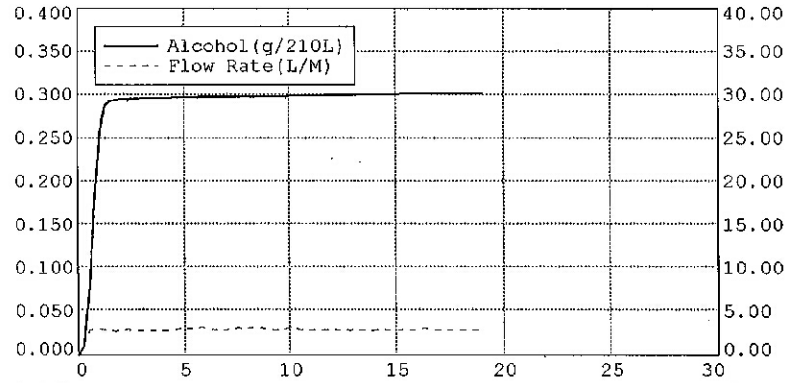
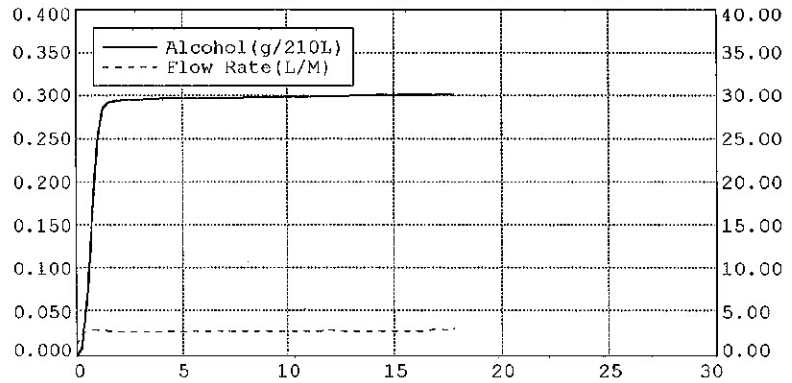
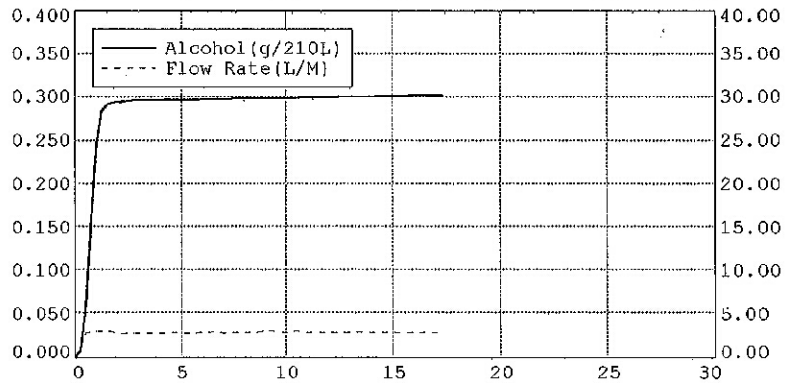
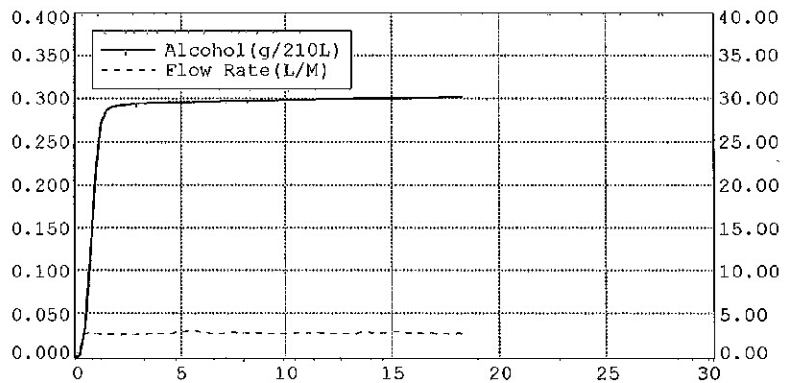
Date: 06/21/2011  
 Time: 11:28:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
 TARGET AT 29.86: 0.299  
 LOT #: 07411300A1  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:30
INTERNAL STANDARD	VERIFIED	11:30
EXTERNAL STANDARD	0.302	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.302	11:32
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.302	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.302	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.299	11:37
BLANK TEST	0.000	11:38

Average = 0.3014  
 Std Dev = 0.0013



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100416

Date: 06/21/2011  
Time: 13:30:10

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

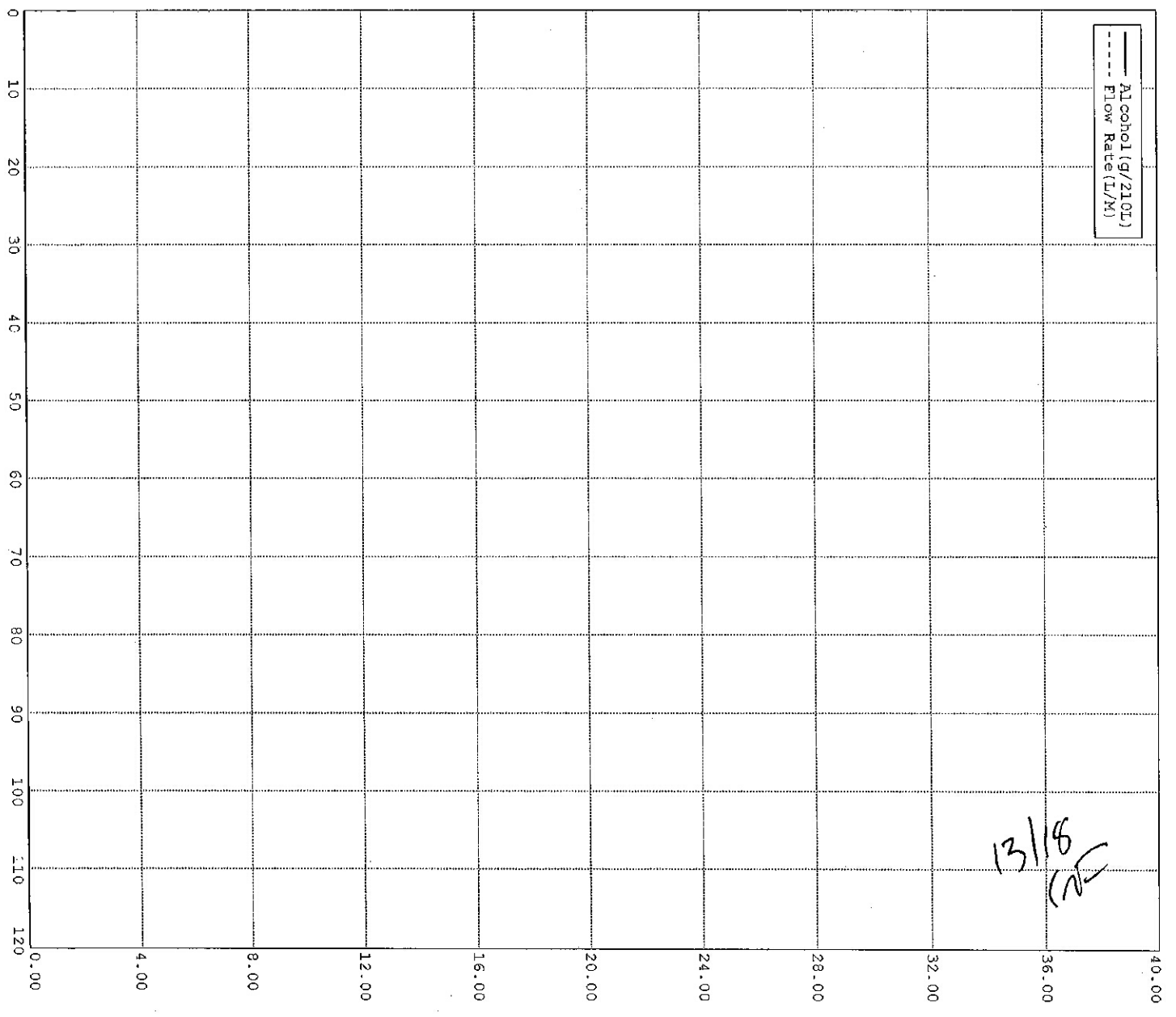
OPERATOR NAME:  
INCOMPLETE XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.86: 0.079  
LOT #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:31
BLANK TEST	0.000	13:31
INTERNAL STANDARD	VERIFIED	13:31
EXTERNAL STANDARD	0.082	13:31
BLANK TEST	0.000	13:32
SUBJECT SAMPLE	INCOMPLETE	13:34

CRF



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dnt: 100416

Date: 06/21/2011  
 Time: 13:36:53

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

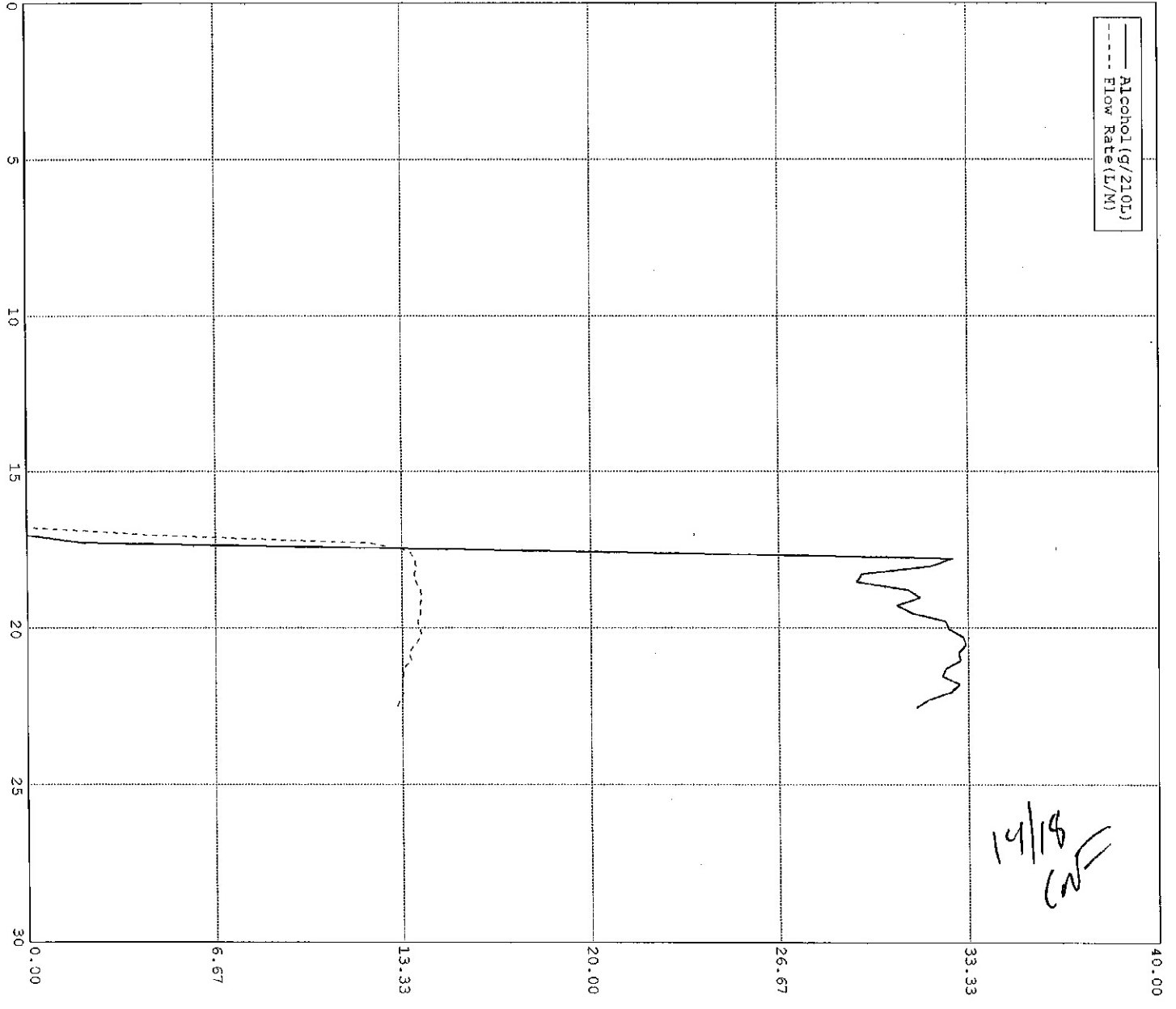
OPERATOR NAME:  
 INVALID KNOWN MOUTH ETOH  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.86: 0.079  
 IOP #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:38
BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:39
EXTERNAL STANDARD	0.081	13:39
BLANK TEST	0.000	13:40
SUBJECT SAMPLE	Invalid	13:40

CRF



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dnt: 100416

Date: 06/21/2011  
Time: 13:46:48

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

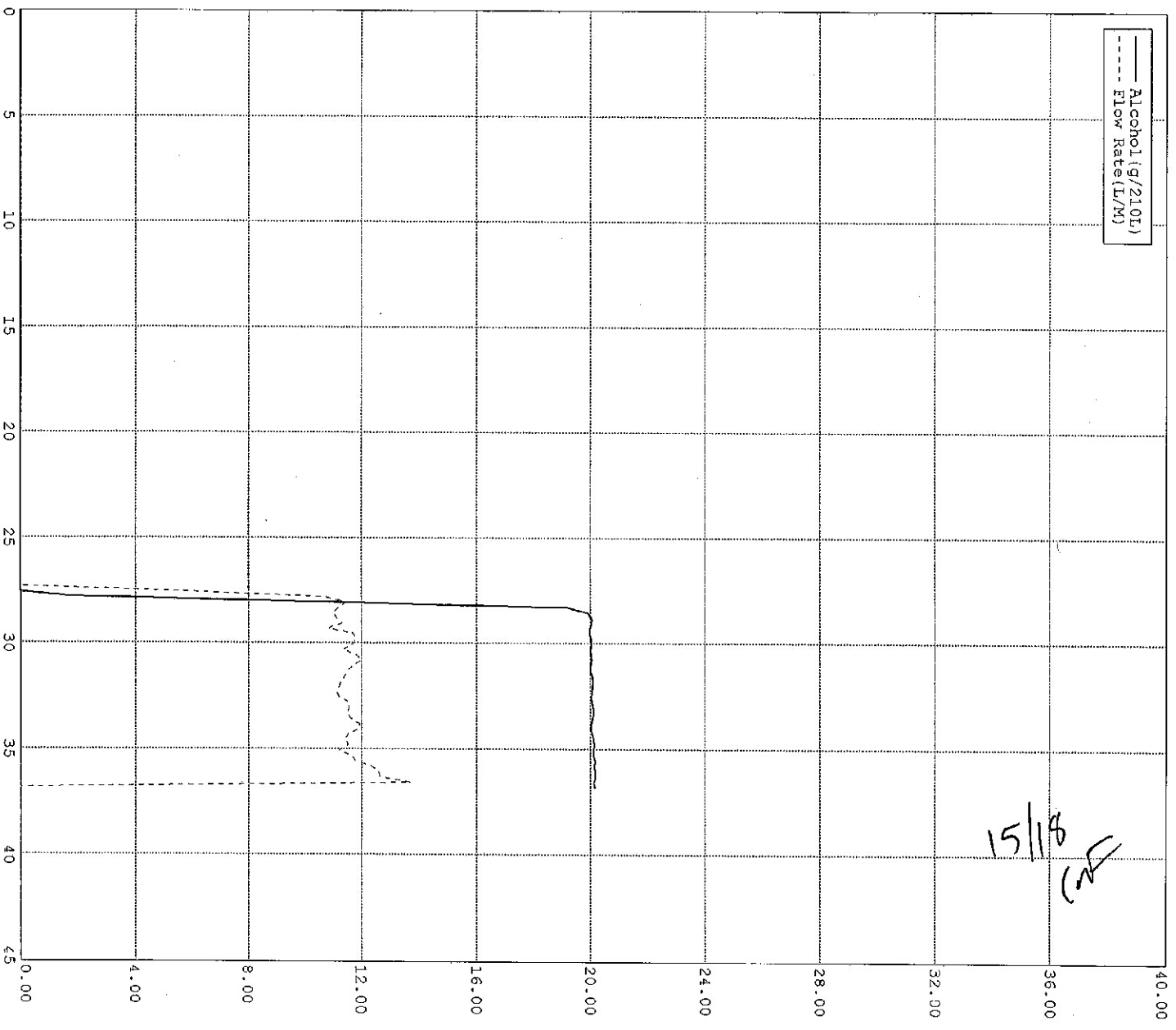
OPERATOR NAME:  
INTERFERENCE ETOH AND ACETONE  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.87: 0.079  
LOF #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:48
BLANK TEST	0.000	13:48
INTERNAL STANDARD	VERIFIED	13:48
EXTERNAL STANDARD	0.082	13:48
BLANK TEST	0.000	13:49
SUBJECT SAMPLE	INTERFERENCE	13:50

CF



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100416

Date: 06/21/2011  
Time: 13:55:20

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

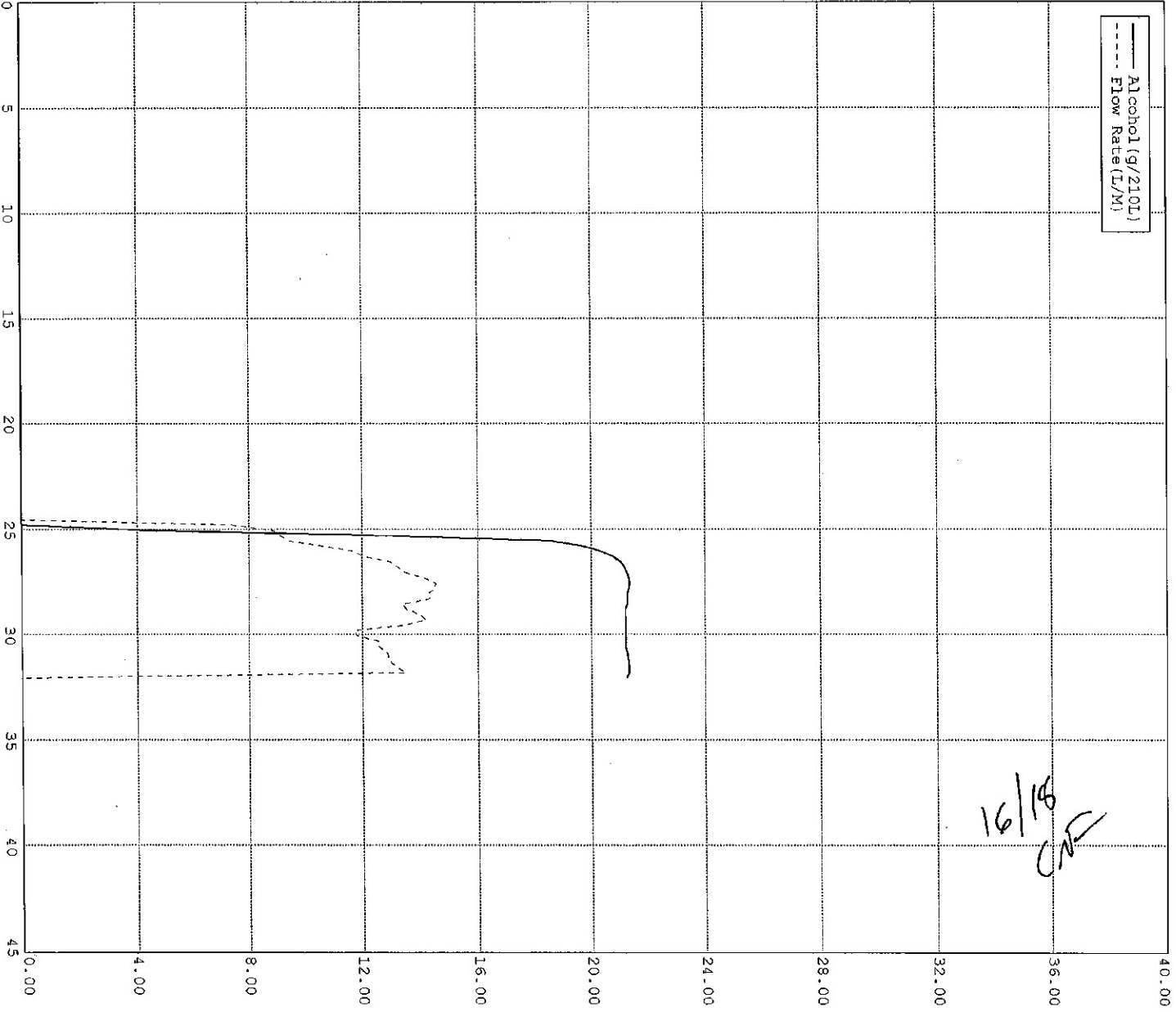
OPERATOR NAME:  
INTERFERENCE ETOH AND IPA  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.86: 0.079  
LOF #: 02511080A3  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:56
BLANK TEST	0.000	13:56
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.082	13:57
BLANK TEST	0.000	13:58
SUBJECT SAMPLE	INTERFERENCE	13:58

CF





SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100416

Date: 06/21/2011  
 Time: 14:08:08

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

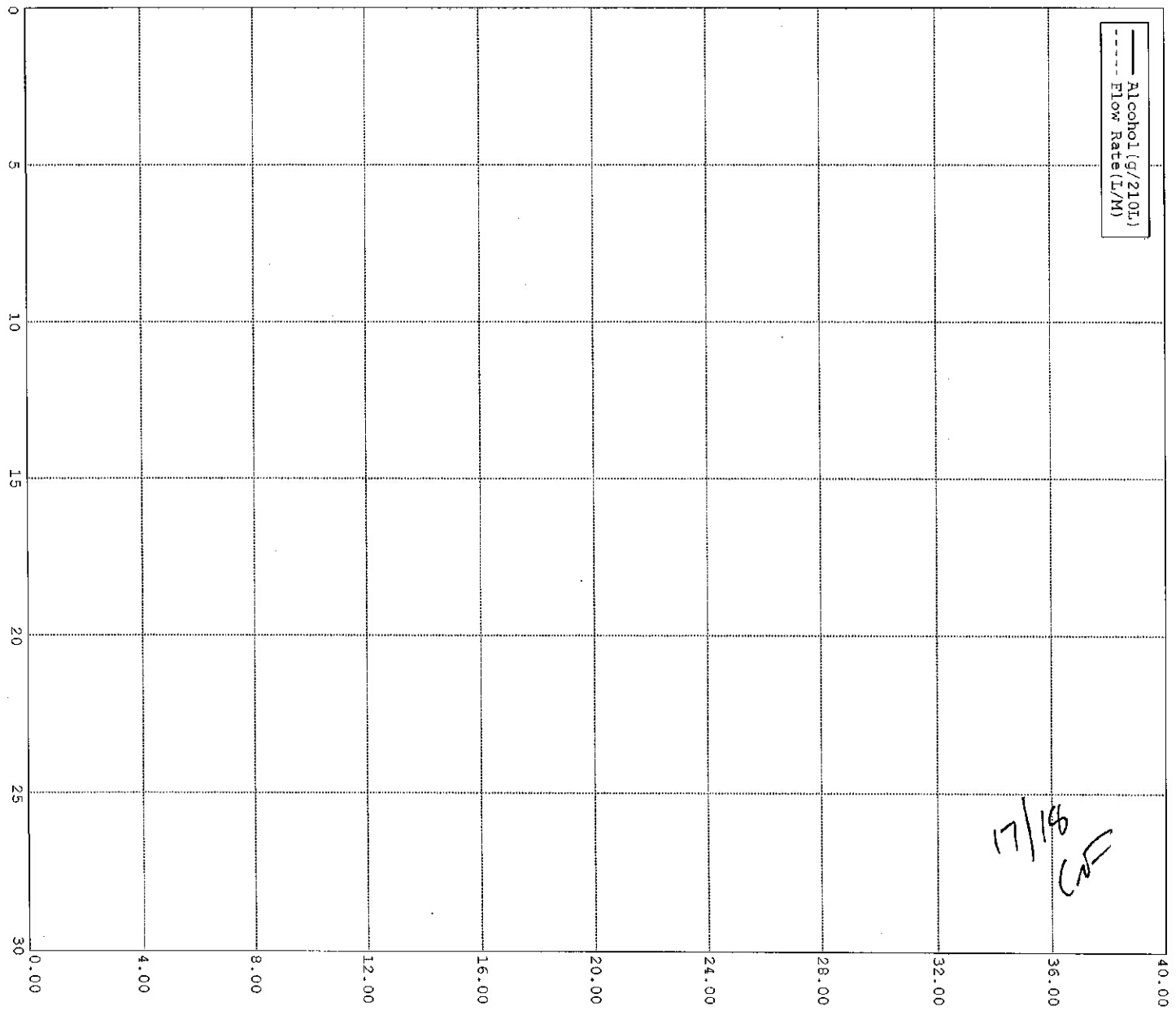
OPERATOR NAME:  
 RFI XXXX  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.86: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:09
BLANK TEST	0.000	14:09
INTERNAL STANDARD	VERIFIED	14:09
EXTERNAL STANDARD	0.082	14:09
BLANK TEST	0.000	14:10

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt : 100416

Date: 06/21/2011  
 Time: 14:21:03

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

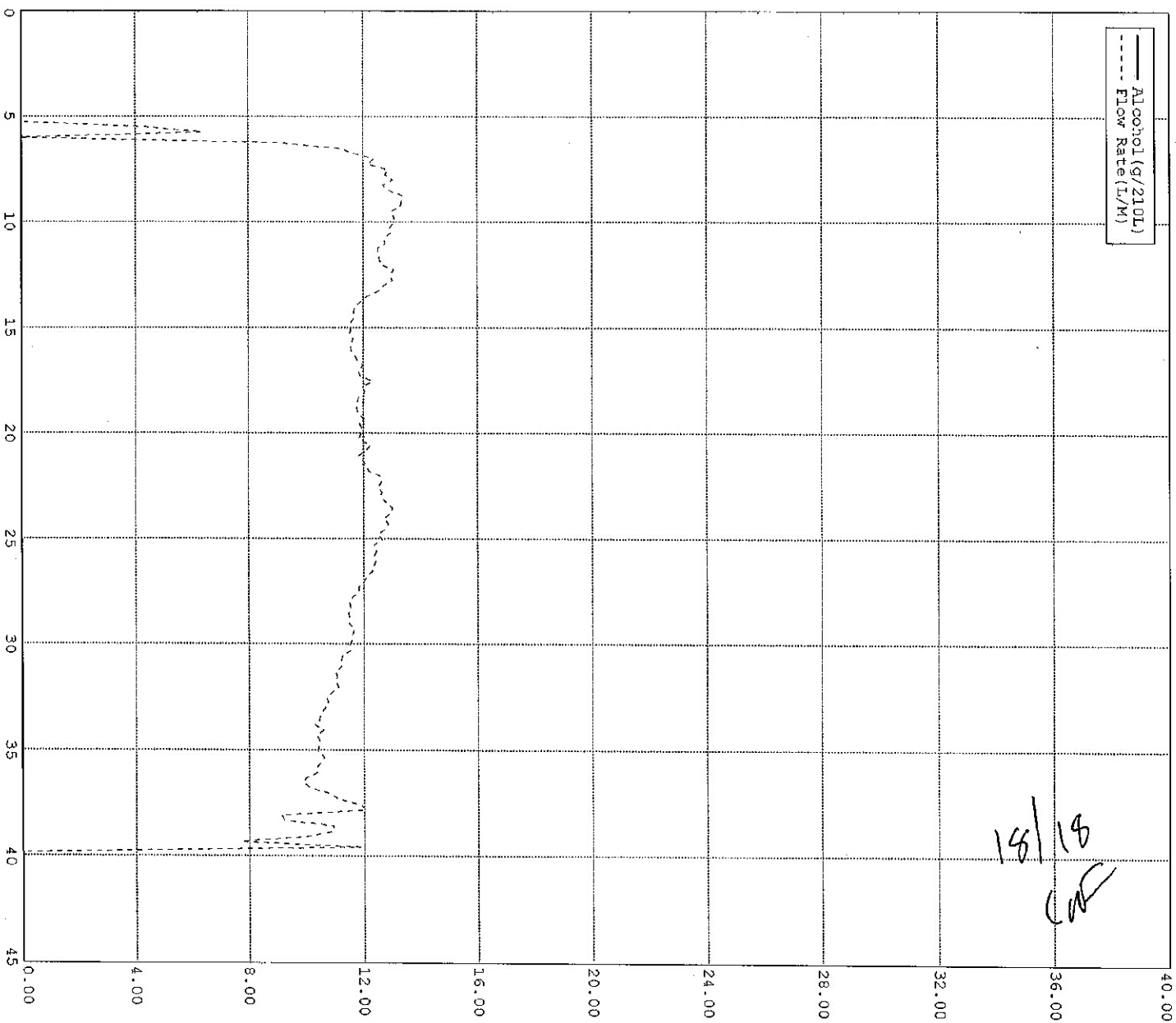
OPERATOR NAME:  
 CHARLES FOSTER  
 OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.86: 0.079  
 LOT #: 02511080A3  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:22
BLANK TEST	0.000	14:22
INTERNAL STANDARD	VERIFIED	14:22
EXTERNAL STANDARD	0.082	14:22
BLANK TEST	0.000	14:23
SUBJECT SAMPLE	0.000	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.082	14:25
BLANK TEST	0.000	14:26

CRF



Final page for report

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