	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 # 100417

1. Diagnostic Test (attached)

Analyst CRF

2. Voltage Checks

Date 6/24/11a. 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 15210020 A1 Exp 7/1/12ii. 0.040g/210L Mnf ILMO Lot 02811040 A2 Exp 2/1/13iii. 0.080g/210L Mnf ILMO Lot 02511080 A2 Exp 2/1/13iv. 0.100g/210L Mnf ILMO Lot 05611100 A2 Exp 3/1/13v. 0.200g/210L Mnf ILMO Lot 07411200 A2 Exp 3/1/13vi. 0.300g/210L Mnf ILMO Lot 07411300 A1 Exp 3/1/13

6. Functional Tests (attached)

a. Incomplete b. Invalid c. Interference i. Acetone - Mnf RepCo Lot 09805 Level 0.080 Exp 11/4/111. Simulator Calibration Date 10/18/10 SN DR6267ii. Isopropanol - Mnf RepCo Lot 09805 Level 0.080 Exp 11/4/111. Simulator Calibration Date 8/4/10 SN SD1202d. RFI 7. Calibrate Stylus 8. Verify card reader is functional 9. Upload 10. Reset Options 

11. Non-Drinking Subject Test (attached)

Standard <sup>CRF</sup> off of range on 4th 0.300,  
out Repeated 0.300 and it passed  
-CRF

11/18  
CRF

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100417  
-----

Date: 06/24/2011  
Time: 10:42:29

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C            PASSED  
Breath Tube      = 48.1°C           PASSED

PUMP INFO

Flow Rate = 4.544 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  
CWF

Technician Screen

-----  
DATAMASTER dmt: 100417  
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Date: 06/24/2011  
Time: 10:53 AM

Temperatures (°C)  
Sample Cell: 49.0°C  
Breath Tube: 48.0°C

Current Barometer 29.9 in  
Volume (Ltr) 1.46

Settings  
Lamp: 1.78 V  
Bias: 80 V  
Cooler: 1.91 V  
Chopper: 534 Hz

Voltages (V)  
Flow: 1.02 V  
Detector: -0.019 V

3/19  
LDF

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100417  
-----

Date: 06/24/2011  
Time: 07:29:47

SUPERVISOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 6237

LOT #: REPC0100  
BOTTLE #: 10003  
EXPIRATION: 09/08/2012

Ca = 0.1000  
CAL = 0.962023    0.800 <= CAL < 1.200  
b1 = 0.0000    0.0000 <= b1 < 0.0040  
b2 = 0.0043    0.0010 <= b2 < 0.0100  
b3 = 0.0000    0.0000 <= b3 < 0.0040  
Xq = 0.0944    0.0500 <= Xq < 0.2000  
a21 = 1.145812    1.050 <= a21 < 1.300  
a31 = 0.525561    0.300 <= a31 < 0.800

4/18  
CNE

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dnt: 100417

Date: 06/24/2011  
 Time: 11:00:41

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

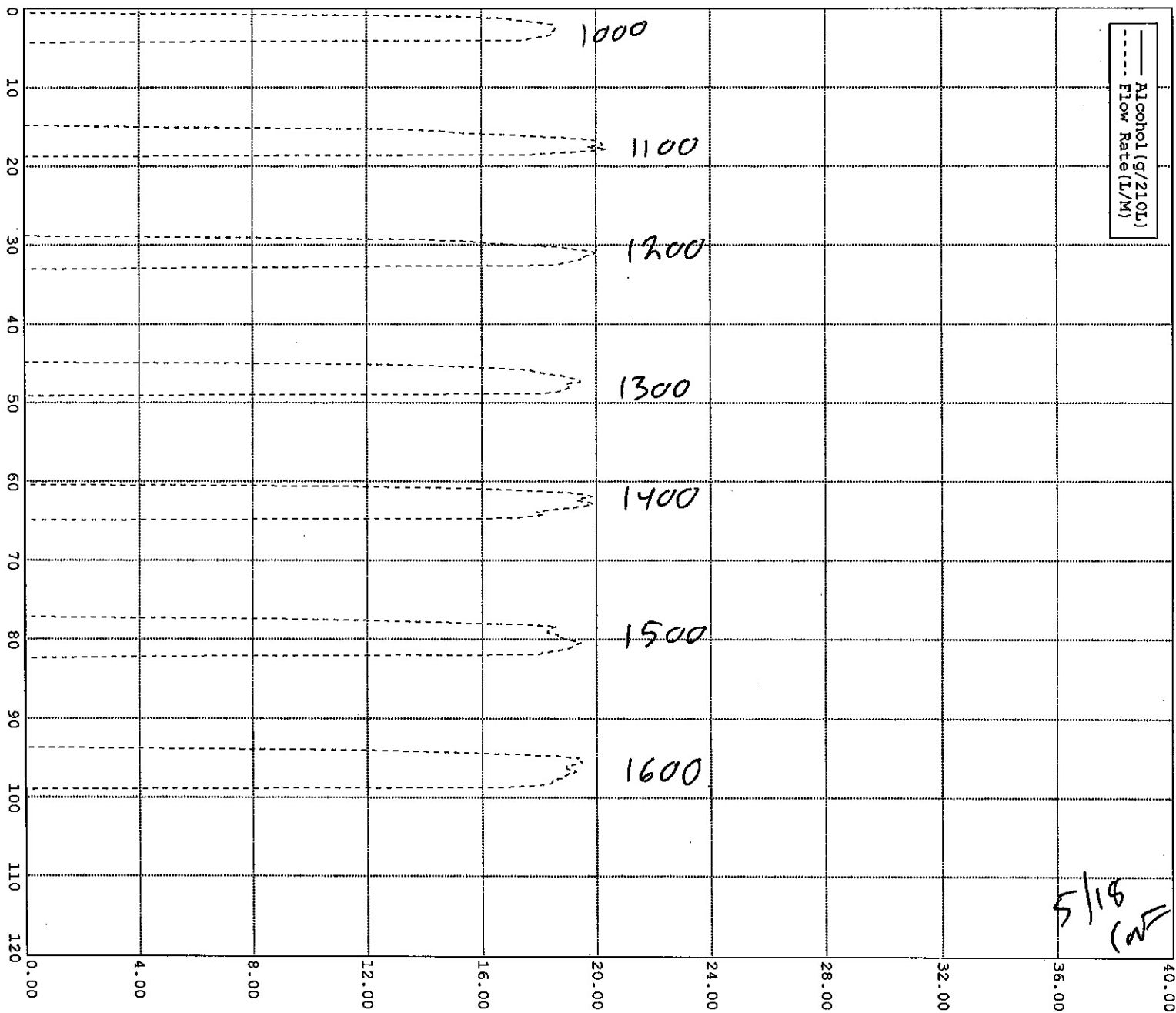
OPERATOR NAME:  
 MINIMUM VOLUME  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.89: 0.079  
 LOI #: 02511080A2  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	11:01
BLANK TEST	0.000	11:01
INTERNAL STANDARD	VERIFIED	11:01
EXTERNAL STANDARD	0.079	11:02
BLANK TEST	0.000	11:03
SUBJECT SAMPLE	0.000	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.079	11:05
BLANK TEST	0.000	11:06

CRF



LINEARITY CHECK

Alaska Department of Public Safety  
 DATAMASTER dnt: 100417

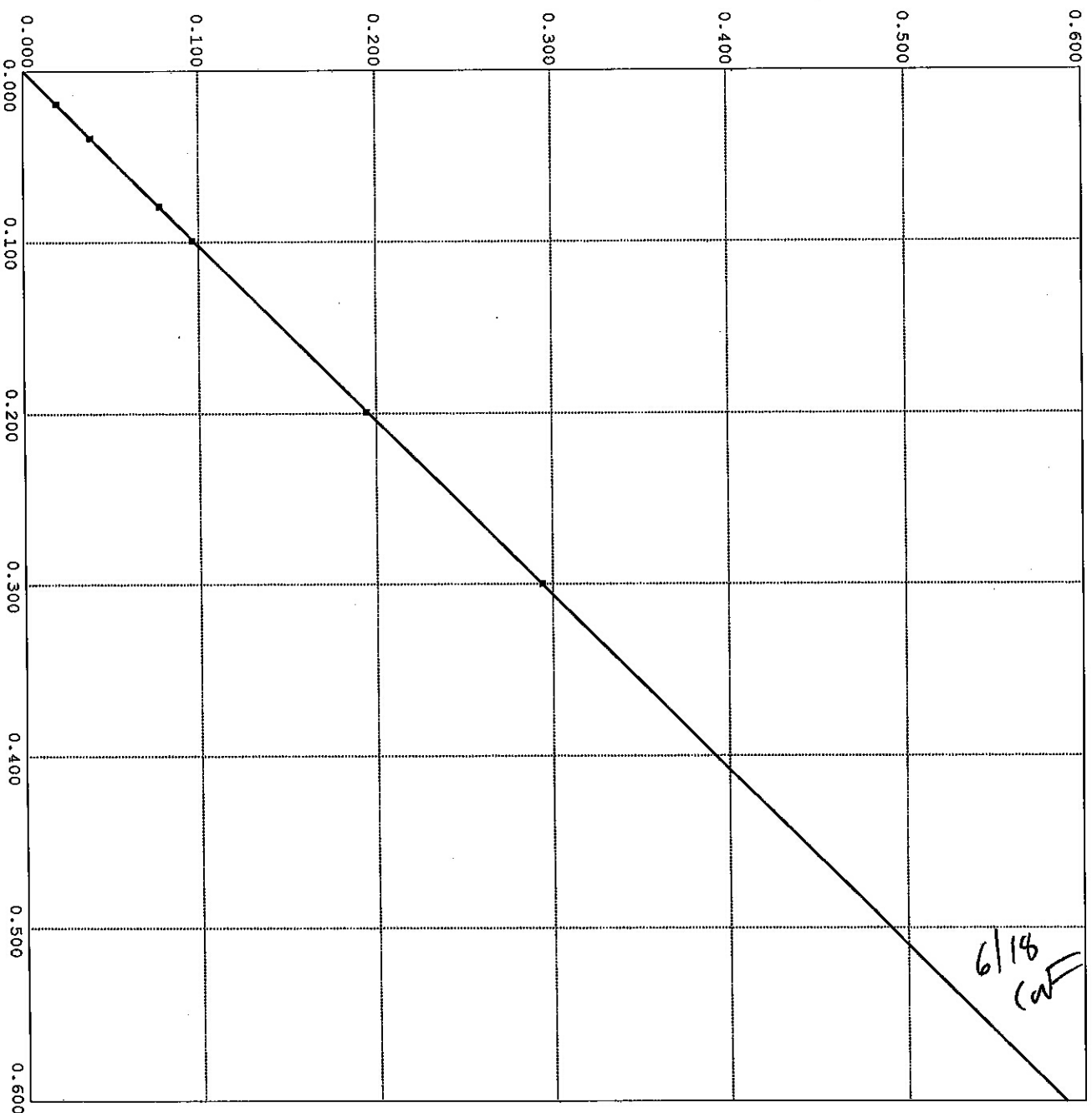
Date: 06/24/2011  
 Time: 12:57:34

SUPERVISOR NAME:  
 CHARLES FOSTER  
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0196	0.0005
0.039	0.0388	0.0004
0.079	0.0784	0.0005
0.099	0.0972	0.0004
0.199	0.1952	0.0016
0.299	0.2946	0.0018

SLOPE = 0.981692  
 R<sup>2</sup> = 0.999988

CRF



LINEARITY CHECK: Control Test 1

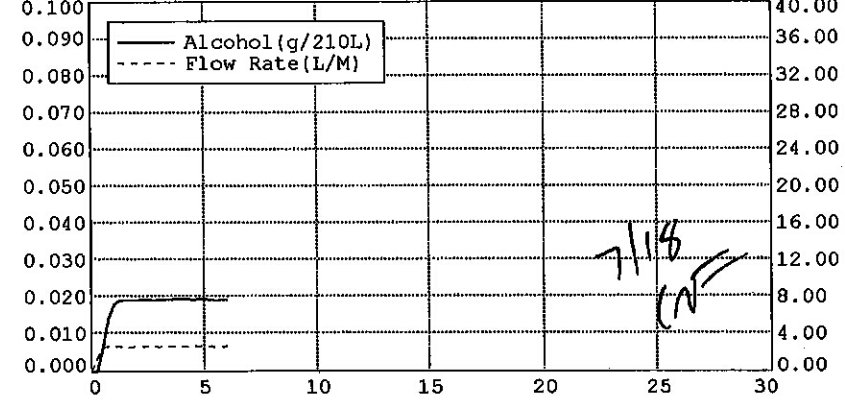
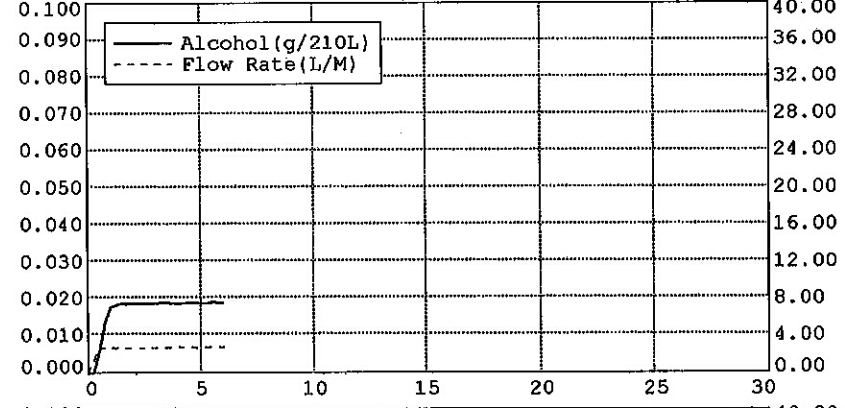
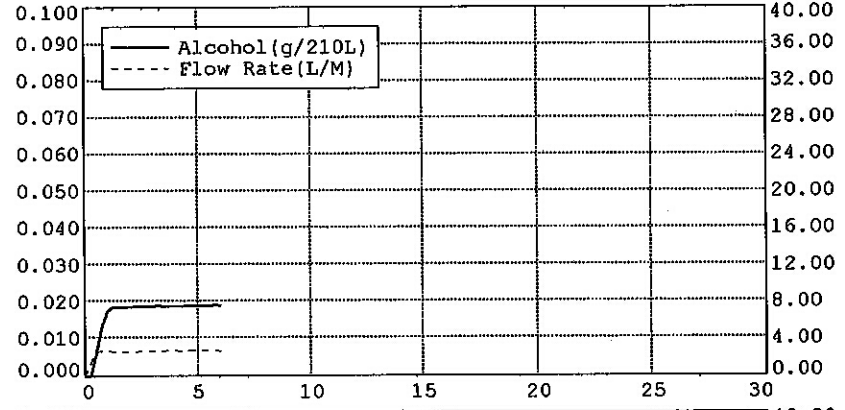
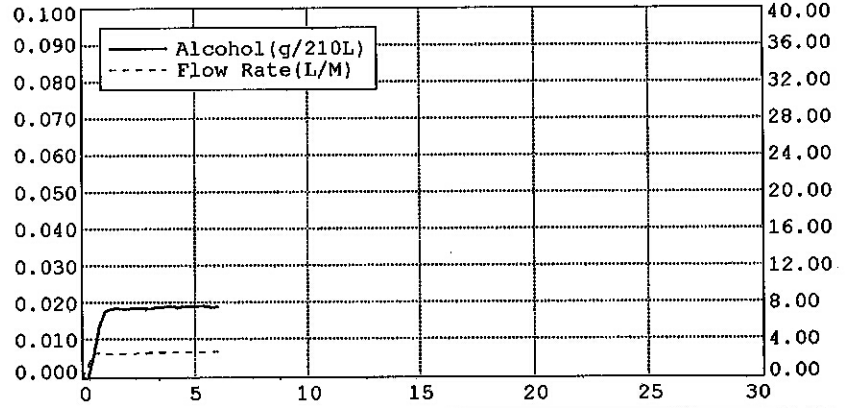
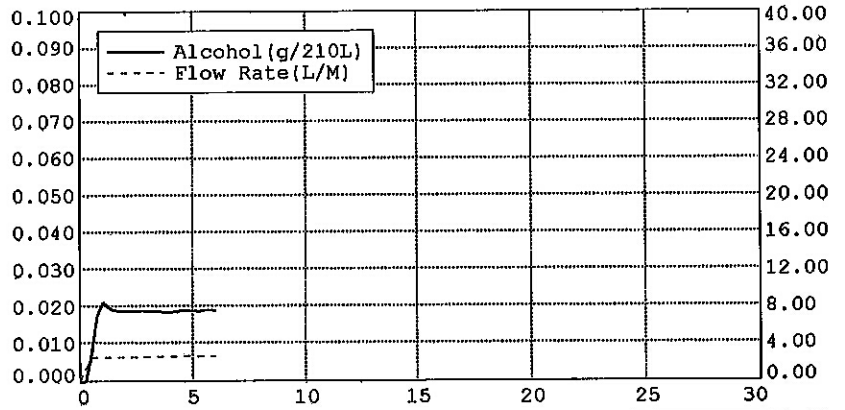
Alaska Department of Public Safety  
 DATAMASTER dmt: 100417

Date: 06/24/2011  
 Time: 12:57:36

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 29.87: 0.019  
 LOT #: 15210020A1  
 EXPIRATION: 07/01/2012

BLANK TEST	0.000	12:59
INTERNAL STANDARD	VERIFIED	12:59
EXTERNAL STANDARD	0.019	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.020	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.020	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.019	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.020	13:04
BLANK TEST	0.000	13:04

Average = 0.0196  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

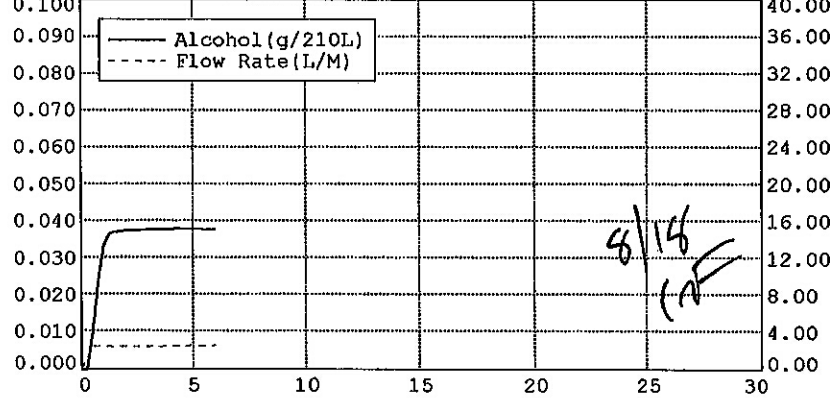
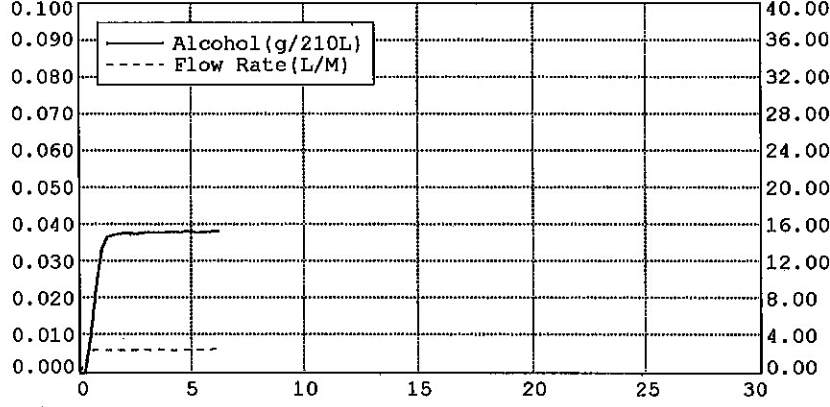
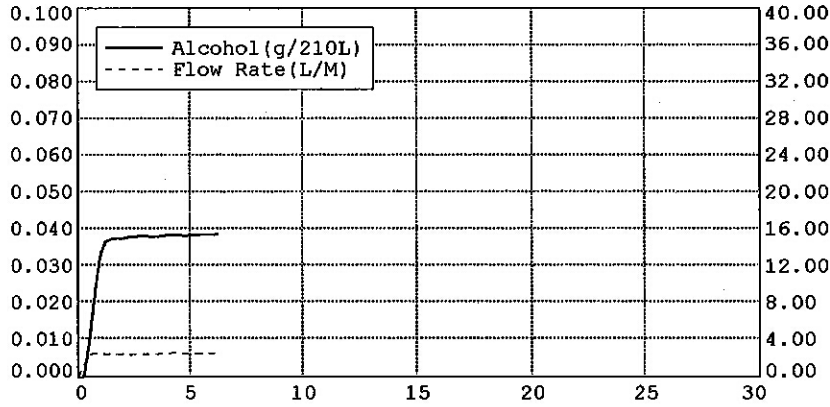
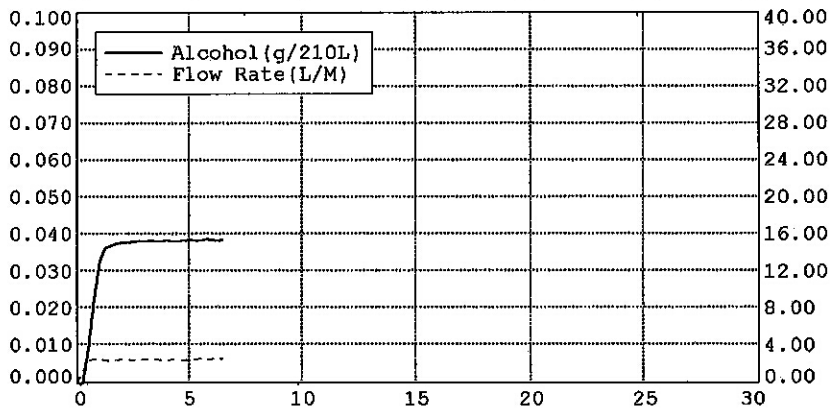
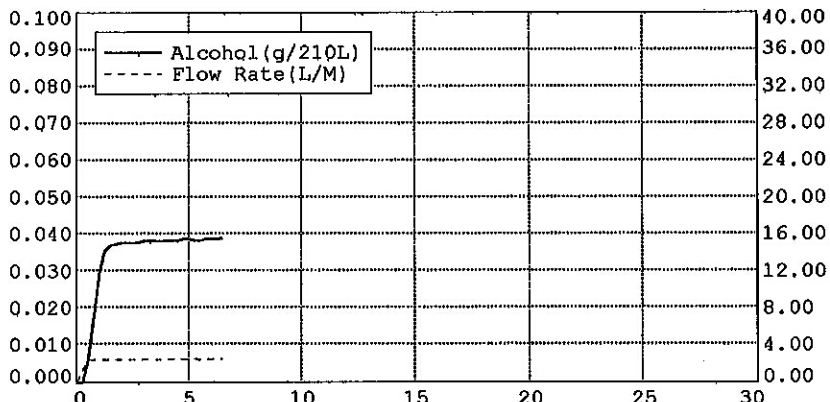
Alaska Department of Public Safety  
 DATAMASTER dmt: 100417

Date: 06/24/2011  
 Time: 13:05:36

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

BLANK TEST	0.000	13:07
INTERNAL STANDARD	VERIFIED	13:07
EXTERNAL STANDARD	0.039	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.039	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.039	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.039	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.038	13:12
BLANK TEST	0.000	13:12

Average = 0.0388  
 Std Dev = 0.0004





LINEARITY CHECK: Control Test 3

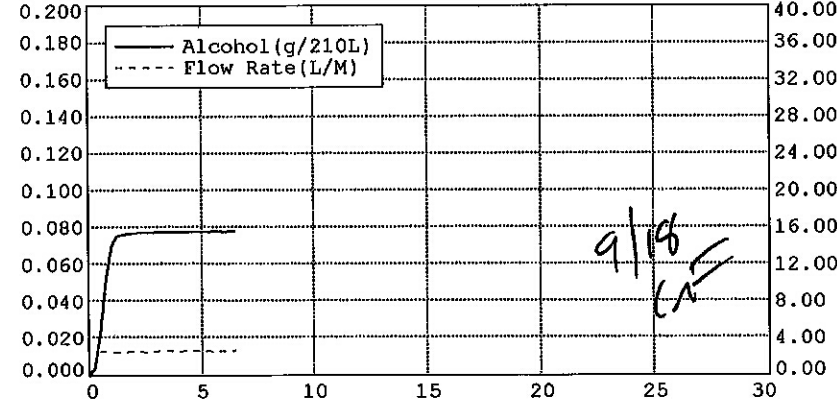
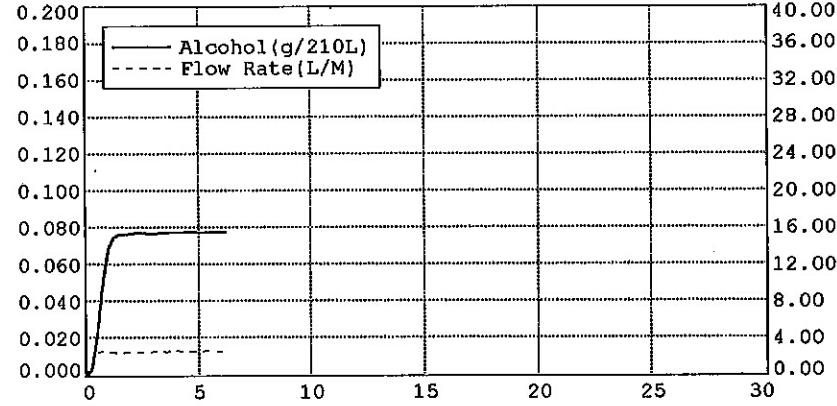
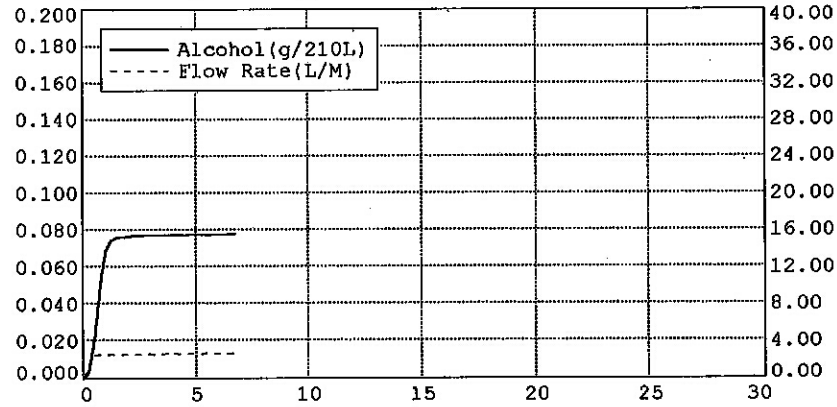
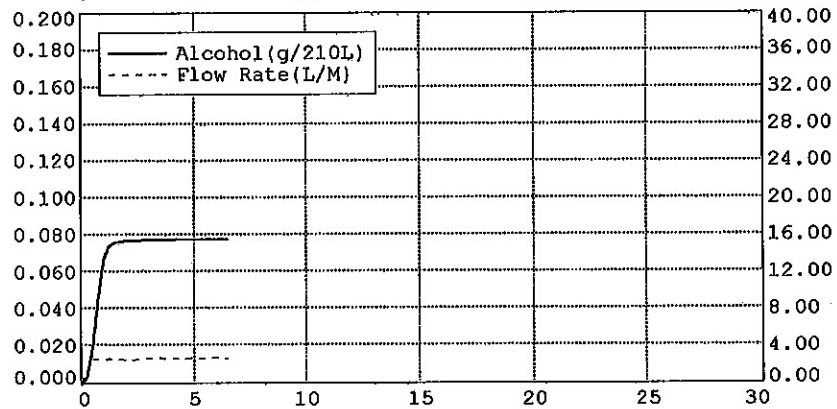
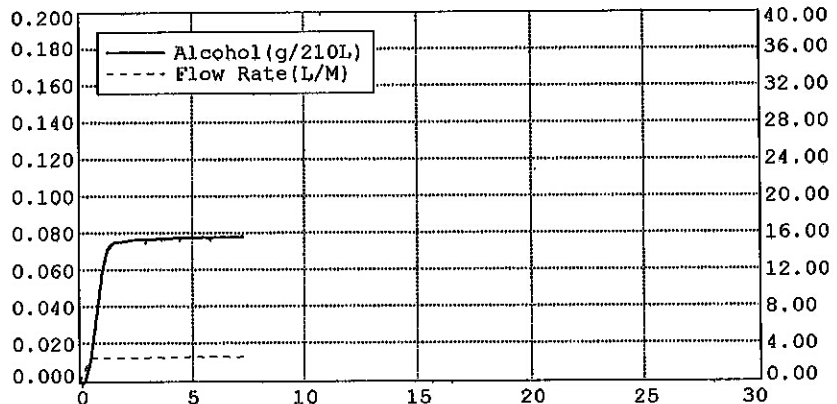
Alaska Department of Public Safety  
 DATAMASTER dmt: 100417

Date: 06/24/2011  
 Time: 13:13:36

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.87: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:14
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.079	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.078	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.079	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.078	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.078	13:19
BLANK TEST	0.000	13:20

Average = 0.0784  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

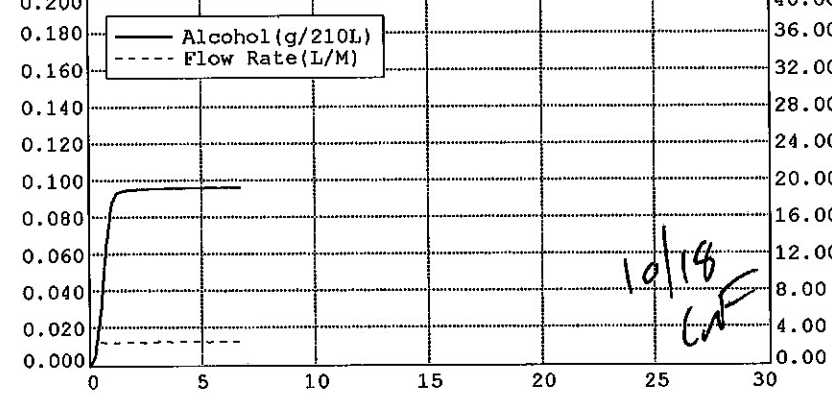
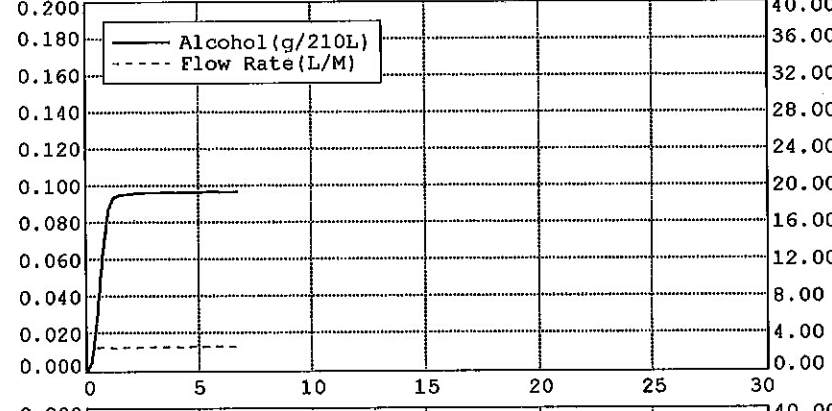
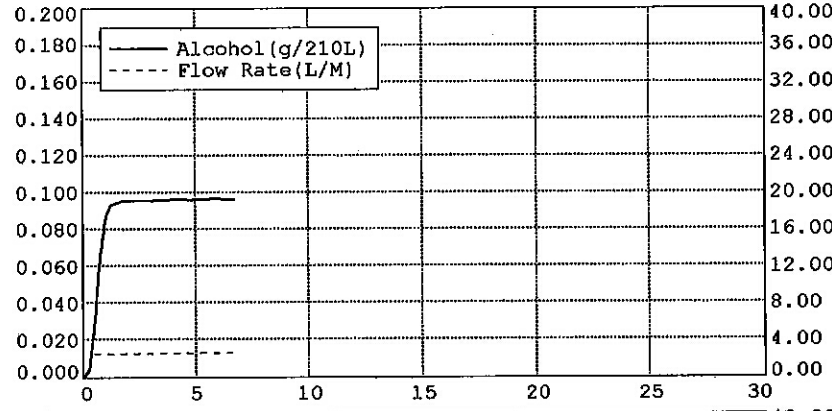
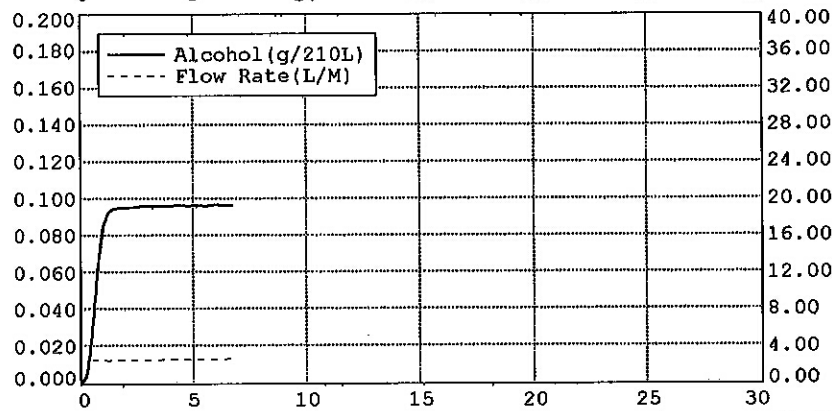
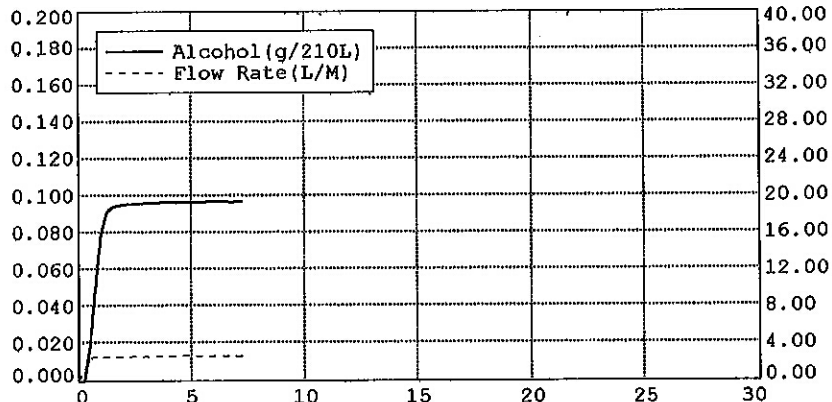
Alaska Department of Public Safety  
 DATAMASTER dmt: 100417

Date: 06/24/2011  
 Time: 13:21:08

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.100  
 TARGET AT 29.87: 0.099  
 LOT #: 05611100A2  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:22
INTERNAL STANDARD	VERIFIED	13:22
EXTERNAL STANDARD	0.097	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.097	13:24
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.097	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.098	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.097	13:27
BLANK TEST	0.000	13:28

Average = 0.0972  
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

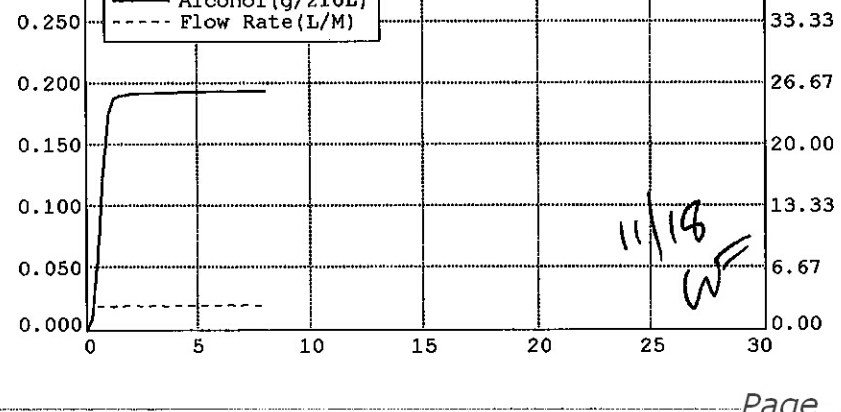
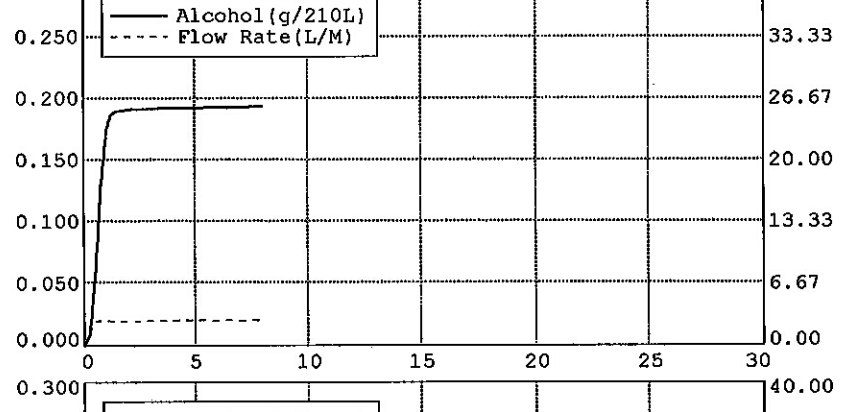
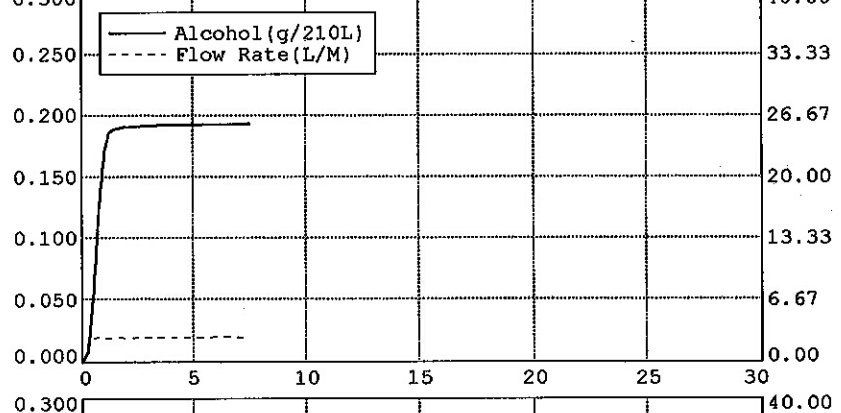
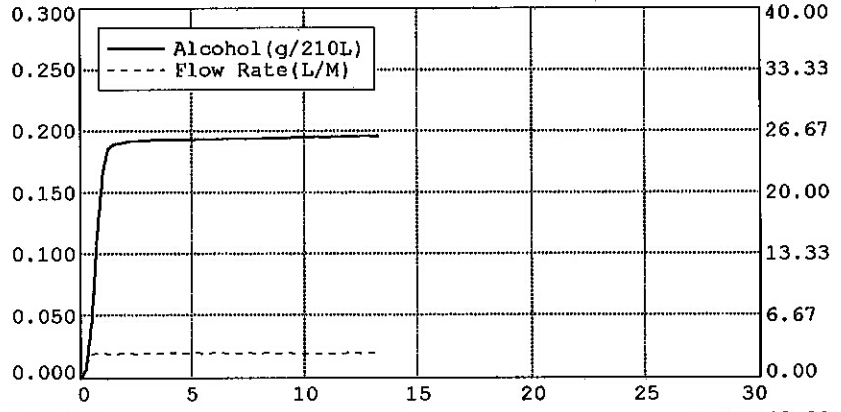
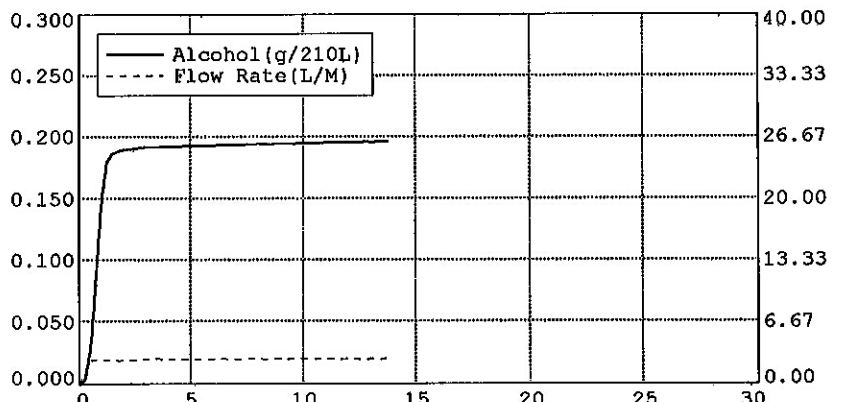
Alaska Department of Public Safety  
 DATAMASTER dmt: 100417

Date: 06/24/2011  
 Time: 13:29:14

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.200  
 TARGET AT 29.87: 0.199  
 LOT #: 07411200A2  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:30
INTERNAL STANDARD	VERIFIED	13:30
EXTERNAL STANDARD	0.197	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.197	13:32
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.194	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.194	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.194	13:36
BLANK TEST	0.000	13:37

Average = 0.1952  
 Std Dev = 0.0016



## LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
DATAMASTER dmt: 100417

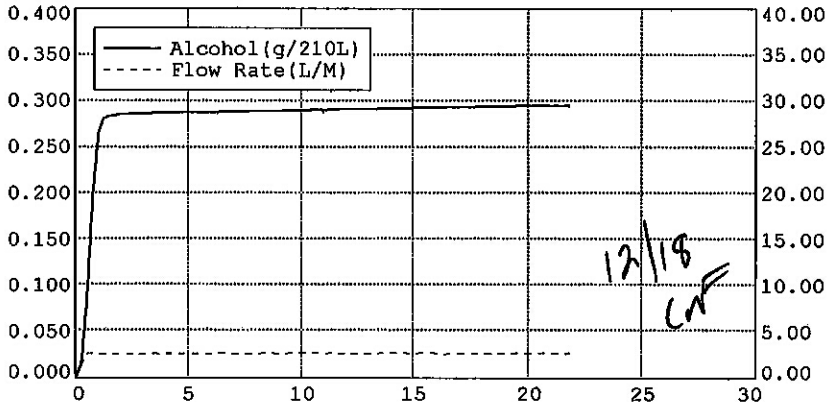
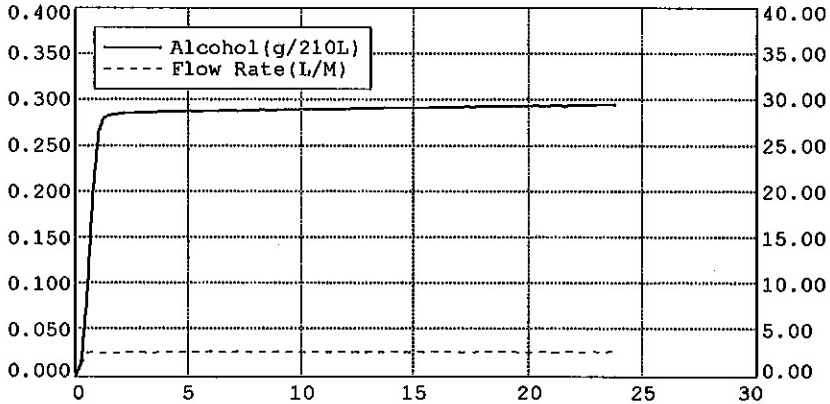
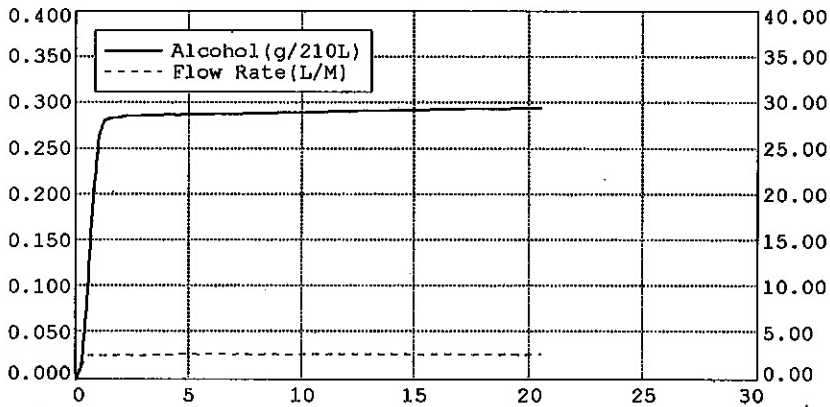
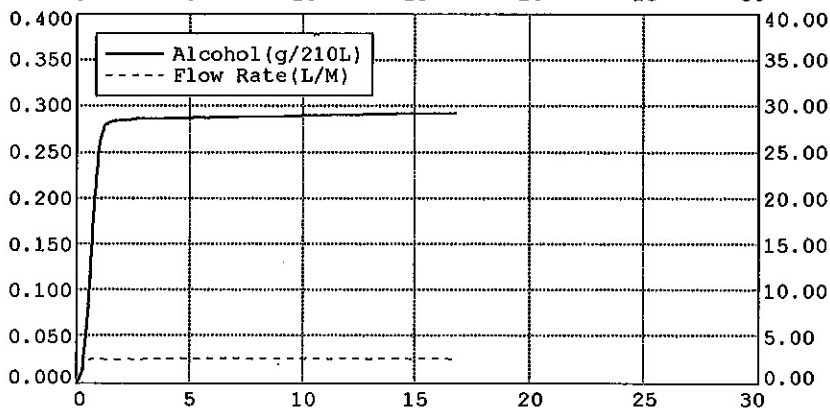
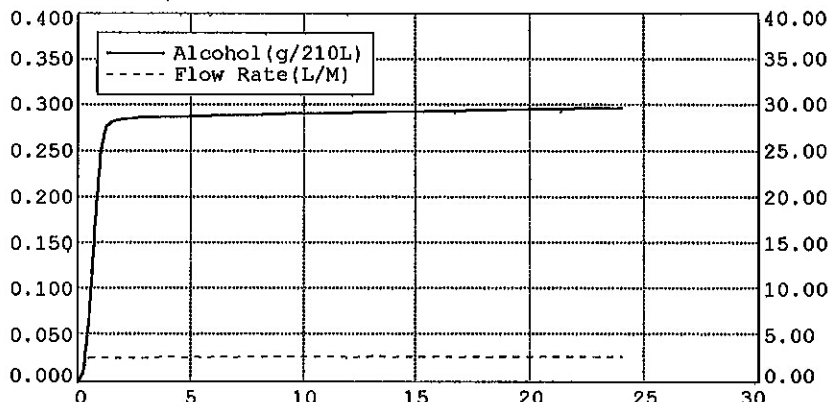
Date: 06/24/2011  
Time: 13:47:57

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.87: 0.299  
LOT #: 07411300A1  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:49
INTERNAL STANDARD	VERIFIED	13:49
EXTERNAL STANDARD	0.297	13:49
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.292	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.294	13:52
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.295	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.295	13:56
BLANK TEST	0.000	13:57

Average = 0.2946  
Std Dev = 0.0018



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmc: 100417

Date: 06/24/2011  
 Time: 14:10:22

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

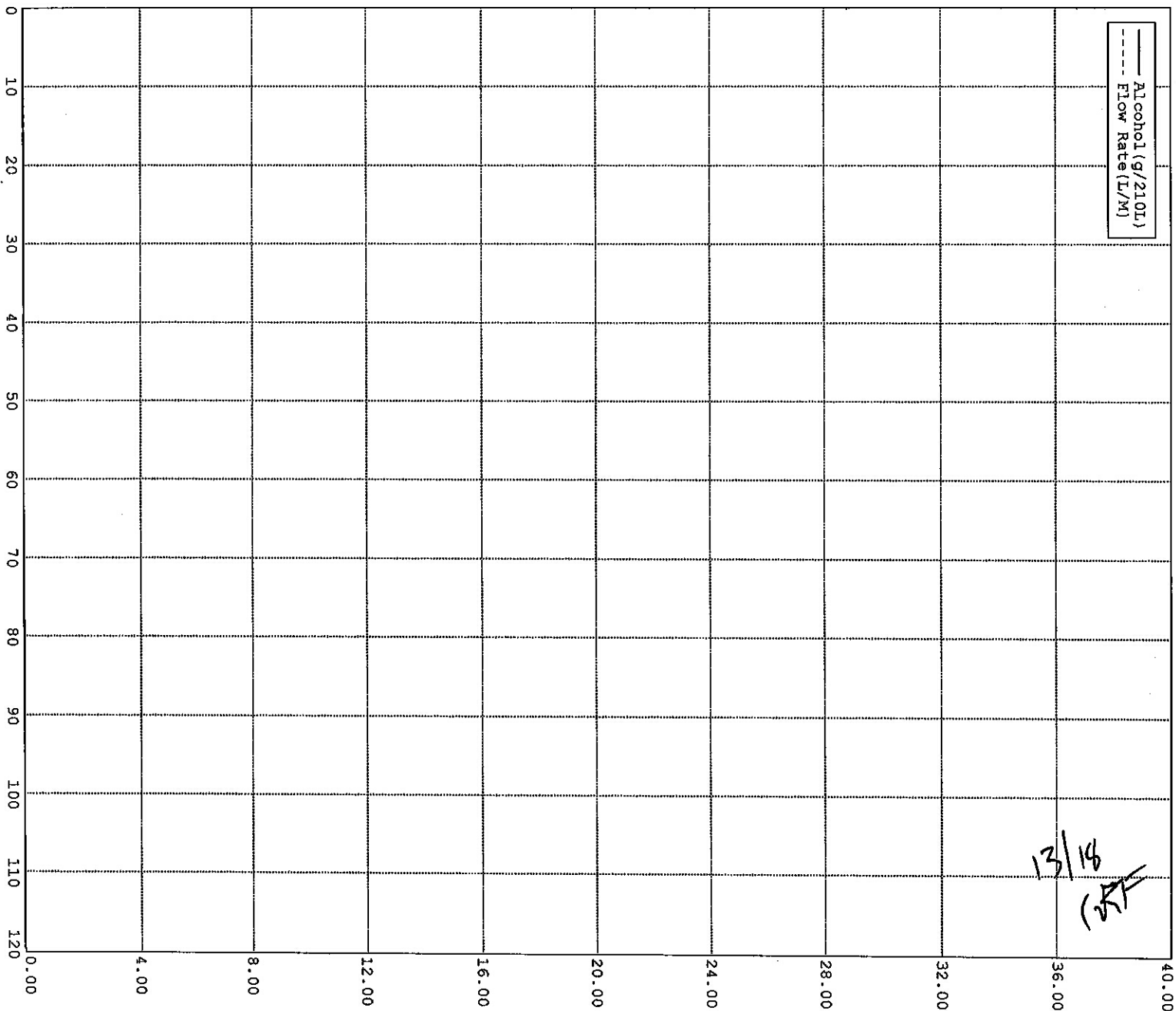
OPERATOR NAME:  
 INCOMPLETE XXXX  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.86: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:11
BLANK TEST	0.000	14:11
INTERNAL STANDARD	VERIFIED	14:11
EXTERNAL STANDARD	0.079	14:11
BLANK TEST	0.000	14:12
SUBJECT SAMPLE	INCOMPLETE	14:14

CRF



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmc: 100417

Date: 06/24/2011  
Time: 14:16:48

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

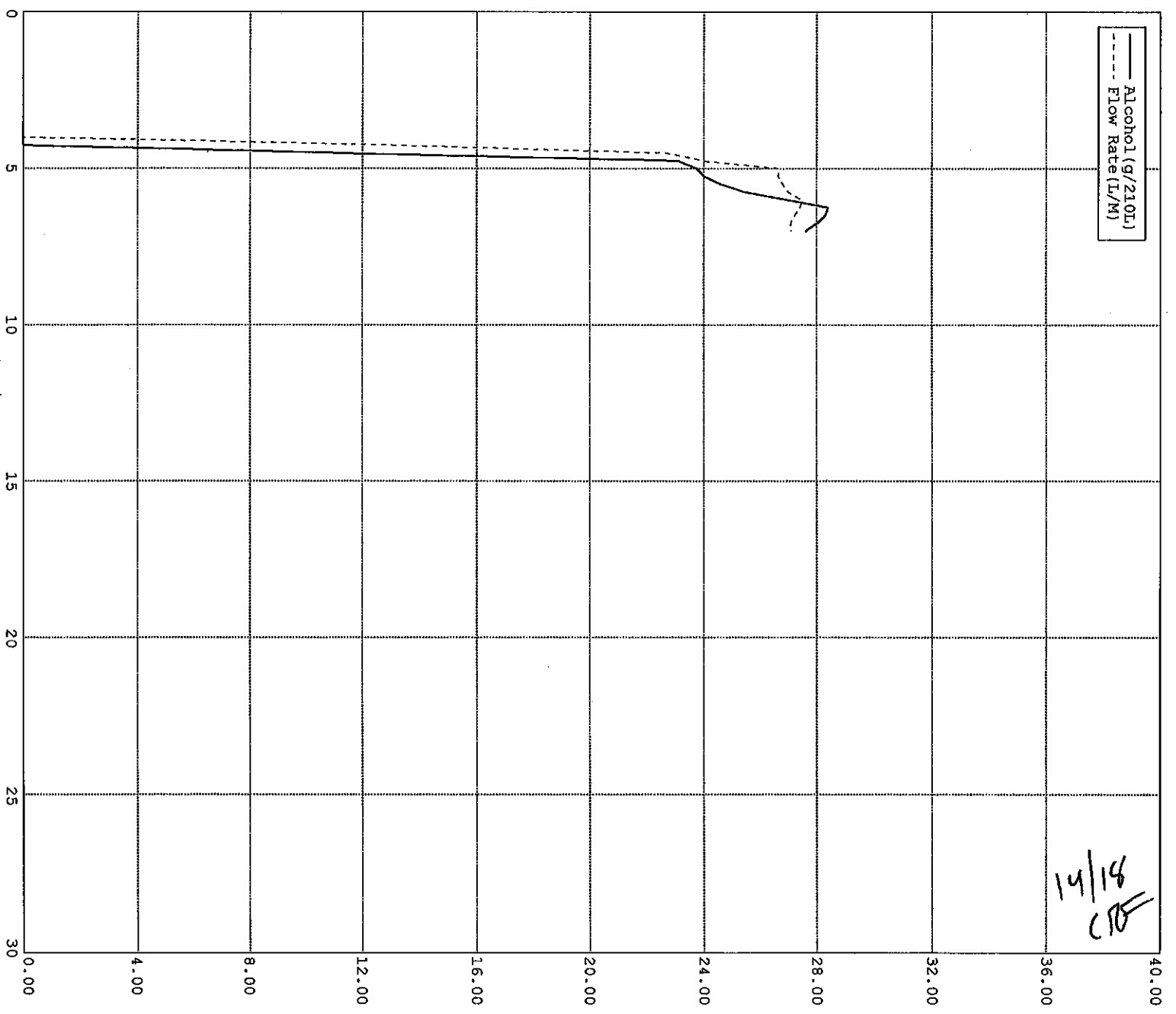
OPERATOR NAME:  
INVALID KNOWN MOUTH ETCH  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.85: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:17
BLANK TEST	0.000	14:17
INTERNAL STANDARD	VERIFIED	14:18
EXTERNAL STANDARD	0.079	14:18
BLANK TEST	0.000	14:19
SUBJECT SAMPLE	Invalid	14:19

CRF



14/18  
CRF

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100417

Date: 06/24/2011  
Time: 14:27:24

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

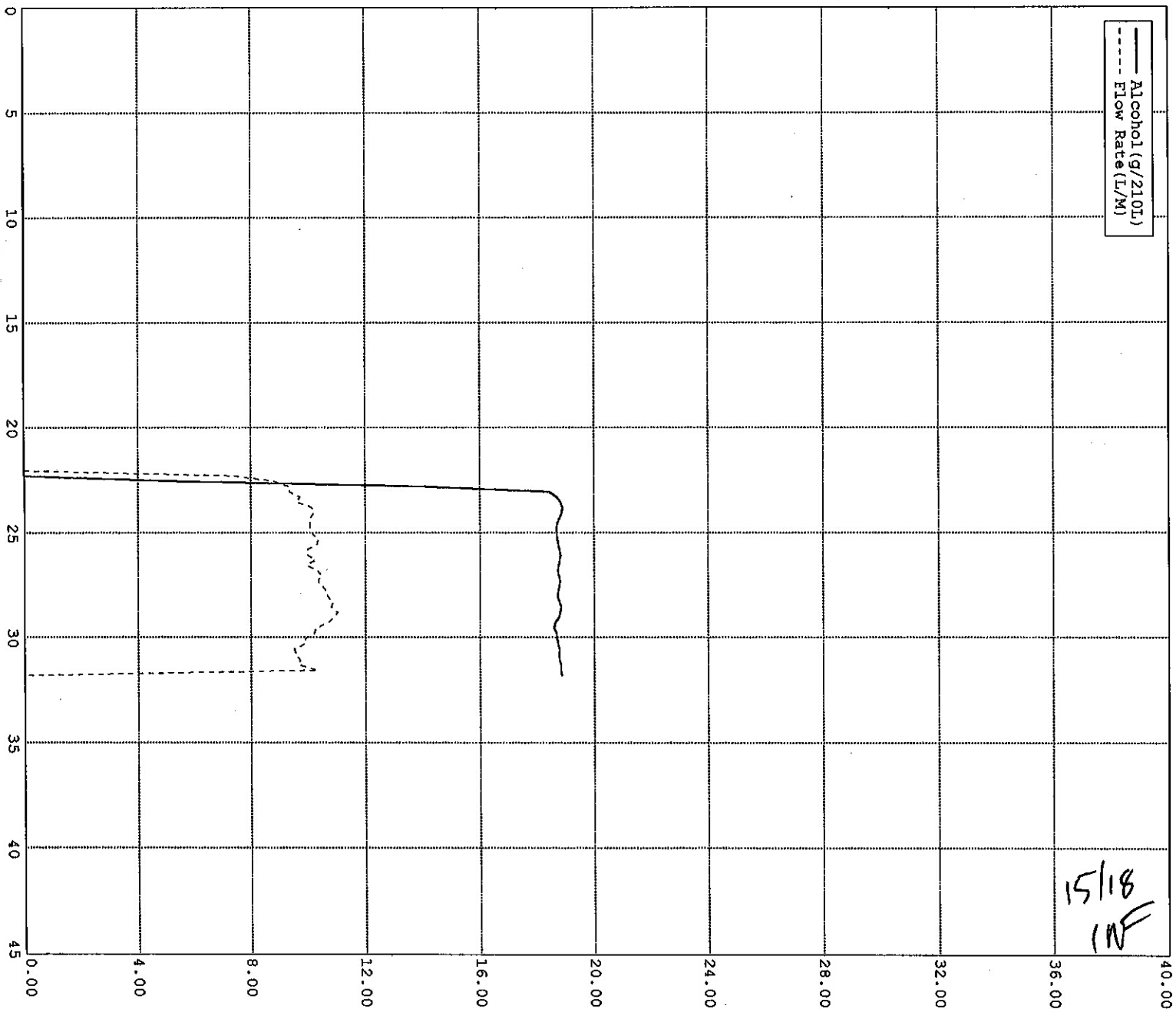
OPERATOR NAME:  
INTERFERENCE ETOH AND ACETONE  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.85: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:28
BLANK TEST	0.000	14:28
INTERNAL STANDARD	VERIFIED	14:28
EXTERNAL STANDARD	0.079	14:28
BLANK TEST	0.000	14:29
SUBJECT SAMPLE	INTERFERENCE	14:30

CRF



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100417

Date: 06/24/2011  
Time: 14:34:36

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

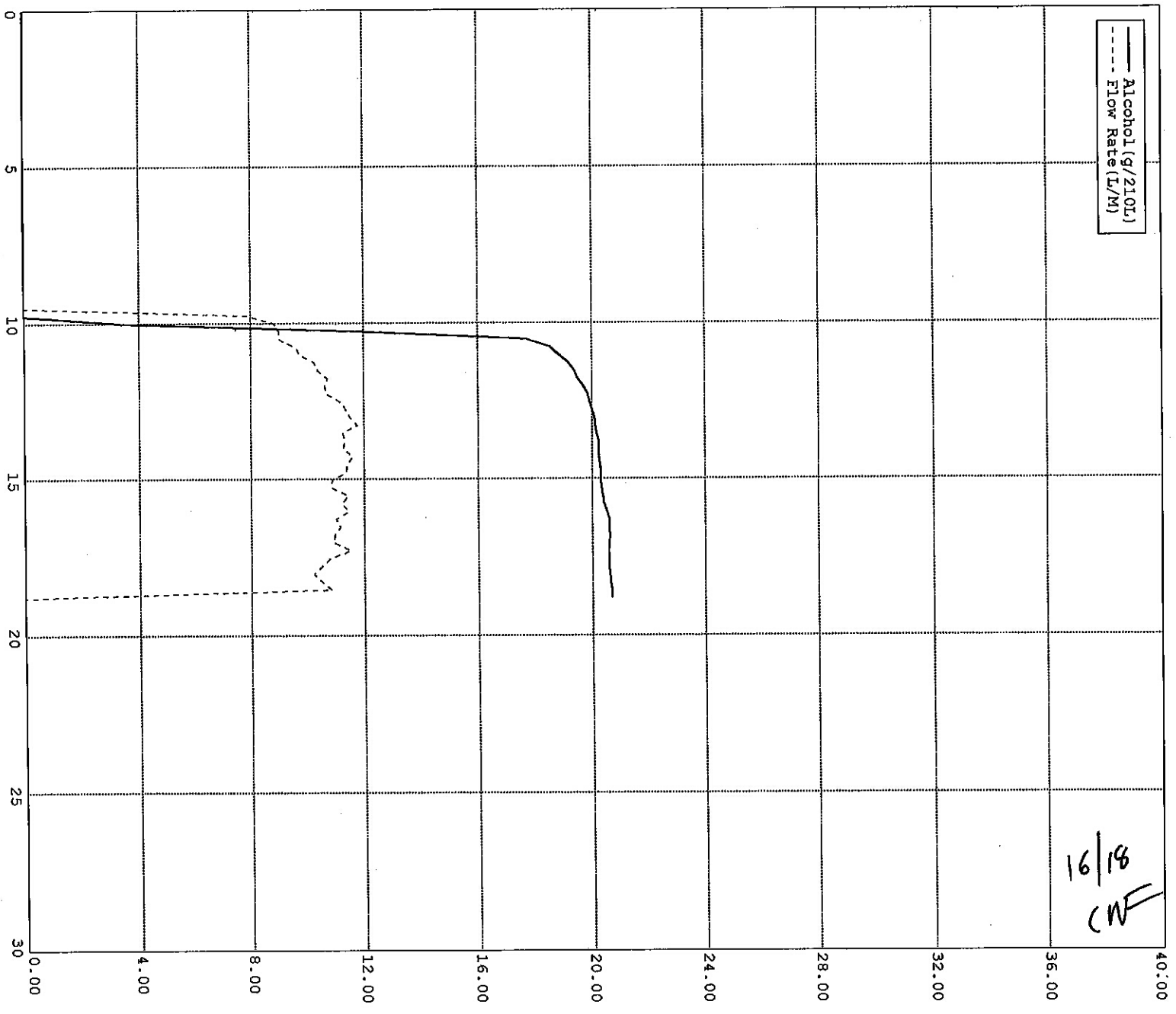
OPERATOR NAME:  
INTERFERENCE FTOH AND IPA  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.85: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:35
BLANK TEST	0.000	14:35
INTERNAL STANDARD	VERIFIED	14:35
EXTERNAL STANDARD	0.078	14:36
BLANK TEST	0.000	14:36
SUBJECT SAMPLE	INTERFERENCE	14:37

CRF





SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100417

Date: 06/24/2011  
Time: 14:40:50

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

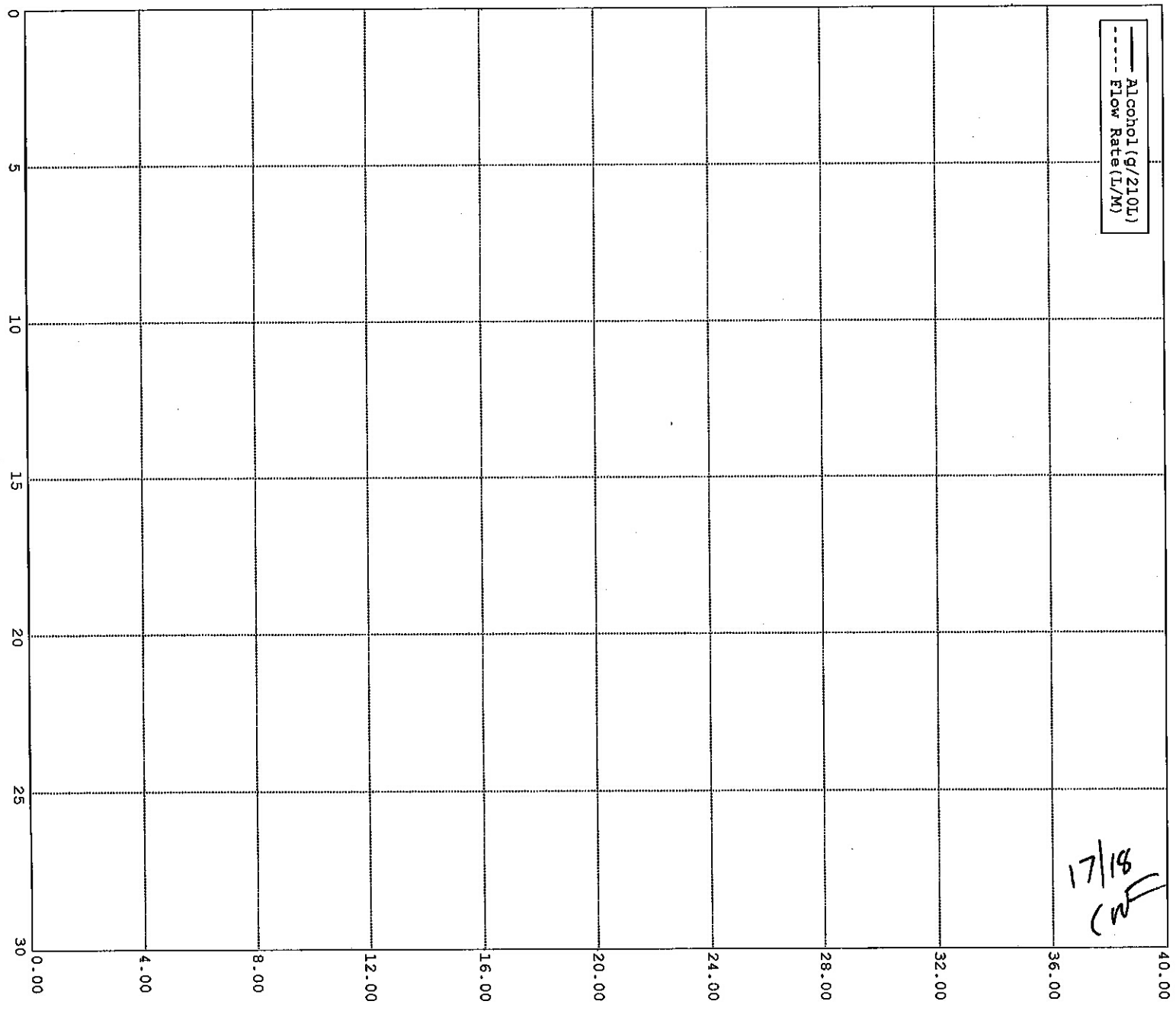
OPERATOR NAME:  
RFI XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.85: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:42
BLANK TEST	0.000	14:42
INTERNAL STANDARD	VERIFIED	14:42
EXTERNAL STANDARD	0.079	14:42
BLANK TEST	0.000	14:43

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100417

Date: 06/24/2011  
 Time: 14:48:16

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

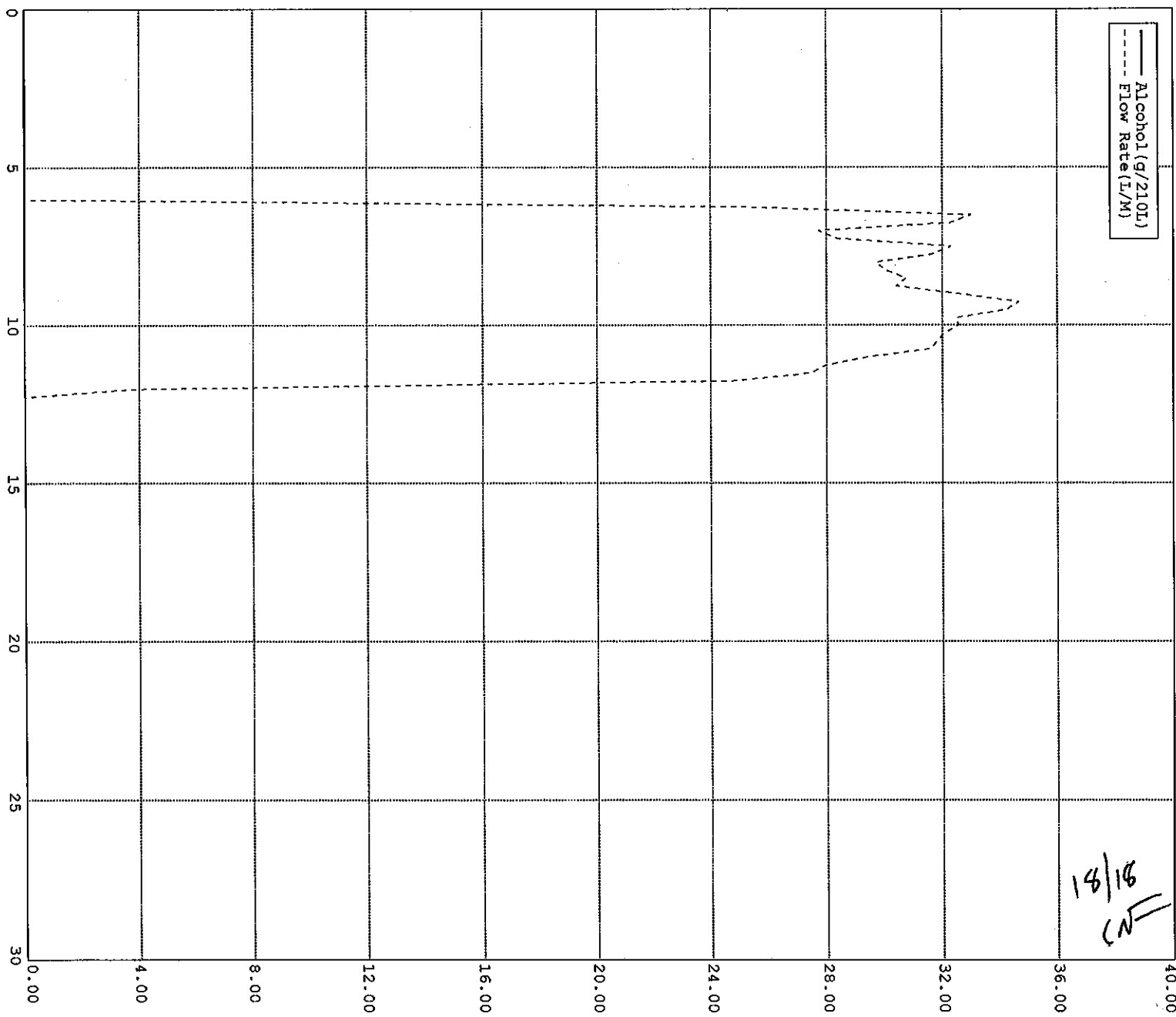
OPERATOR NAME:  
 CHARLES FOSTER  
 OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.84: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:49
BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.079	14:49
BLANK TEST	0.000	14:50
SUBJECT SAMPLE	0.000	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.078	14:52
BLANK TEST	0.000	14:52

CRF



Final page for report

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2/18/2014