	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form – DMCEF2011R1		
	Issuing Authority – Nita Boiz, Scientific Director		
Approval date: 03/10/11		Effective date: 03/10/11	Archive date: Active

## DataMaster DMT Certification Form

Instrument # 100399Analyst CRFDate 10/13/11

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 07611020A5 Exp 3/1/13ii. 0.040g/210L Mnf ILMO Lot 07811040A2 Exp 2/1/13iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 3/1/13iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 3/1/13vi. 0.300g/210L Mnf ILMO Lot 07611300A1 Exp 3/1/13

6. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/121. Simulator Calibration Date 12/15/10 SN DR4176ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/121. Simulator Calibration Date 12/16/10 SN SD1198d. 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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## DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100399  
-----

Date: 10/13/2011  
Time: 12:56:42

## VERSIONS

DMT: 1.01  
PIC: 3.03  
Modem: 2.0  
Questions: 2.2

## TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 46.1°C	PASSED

## PUMP INFO

Flow Rate = 5.226 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

INTERNAL STANDARD	PASSED
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## Technician Screen

-----  
DATAMASTER dmt: 100399  
-----

Date: 10/13/2011

Time: 1:15 PM

## Temperatures (°C)

Sample Cell: 49.5°C

Breath Tube: 45.8°C

Current Barometer 29.9 in

Volume (Ltr) 1.54

## Settings

Lamp: 1.70 V

Bias: 80 V

Cooler: 1.72 V

Chopper: 541 Hz

## Voltages (V)

Flow: 1.05 V

Detector: 0.064 V

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## CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100399  
-----

Date: 10/06/2011  
Time: 05:41:16

Ca	=	0.1000		
CAL	=	1.021434	0.800	<= CAL < 1.200
b1	=	0.0000	0.0000	<= b1 < 0.0040
b2	=	0.0051	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0950	0.0500	<= Xq < 0.2000
a21	=	1.213904	1.050	<= a21 < 1.300
a31	=	0.433681	0.300	<= a31 < 0.800

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## SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100399

Date: 10/13/2011

Time: 13:32:30

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 29.92: 0.079

LOT #: 07511080A1

EXPIRATION: 03/01/2013

## DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

BLANK TEST

EXTERNAL STANDARD

BLANK TEST

PASSED 13:33

0.000 13:33

VERIFIED 13:33

0.080 13:33

0.000 13:34

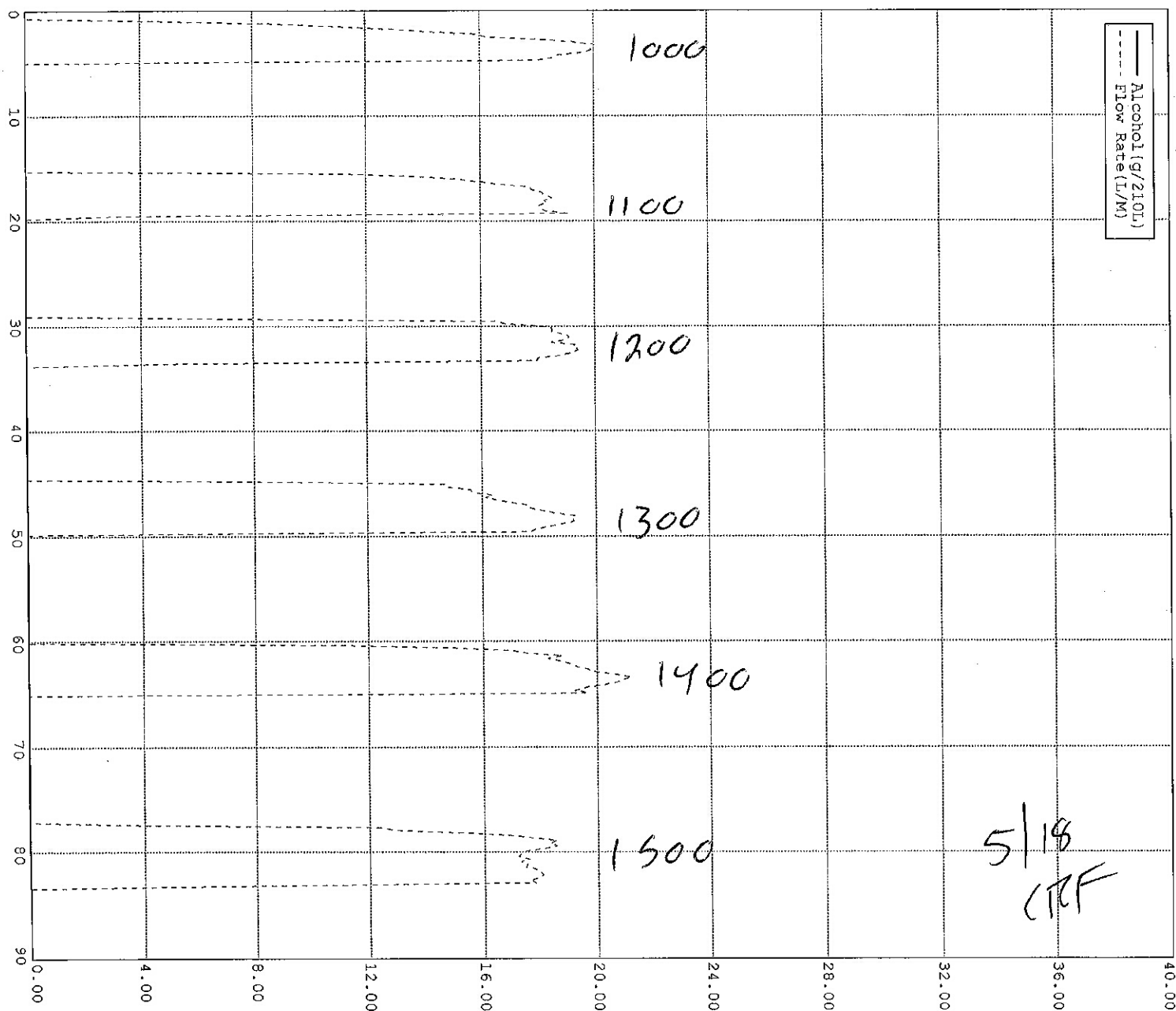
0.000 13:36

0.000 13:37

0.081 13:37

0.000 13:38

CRF



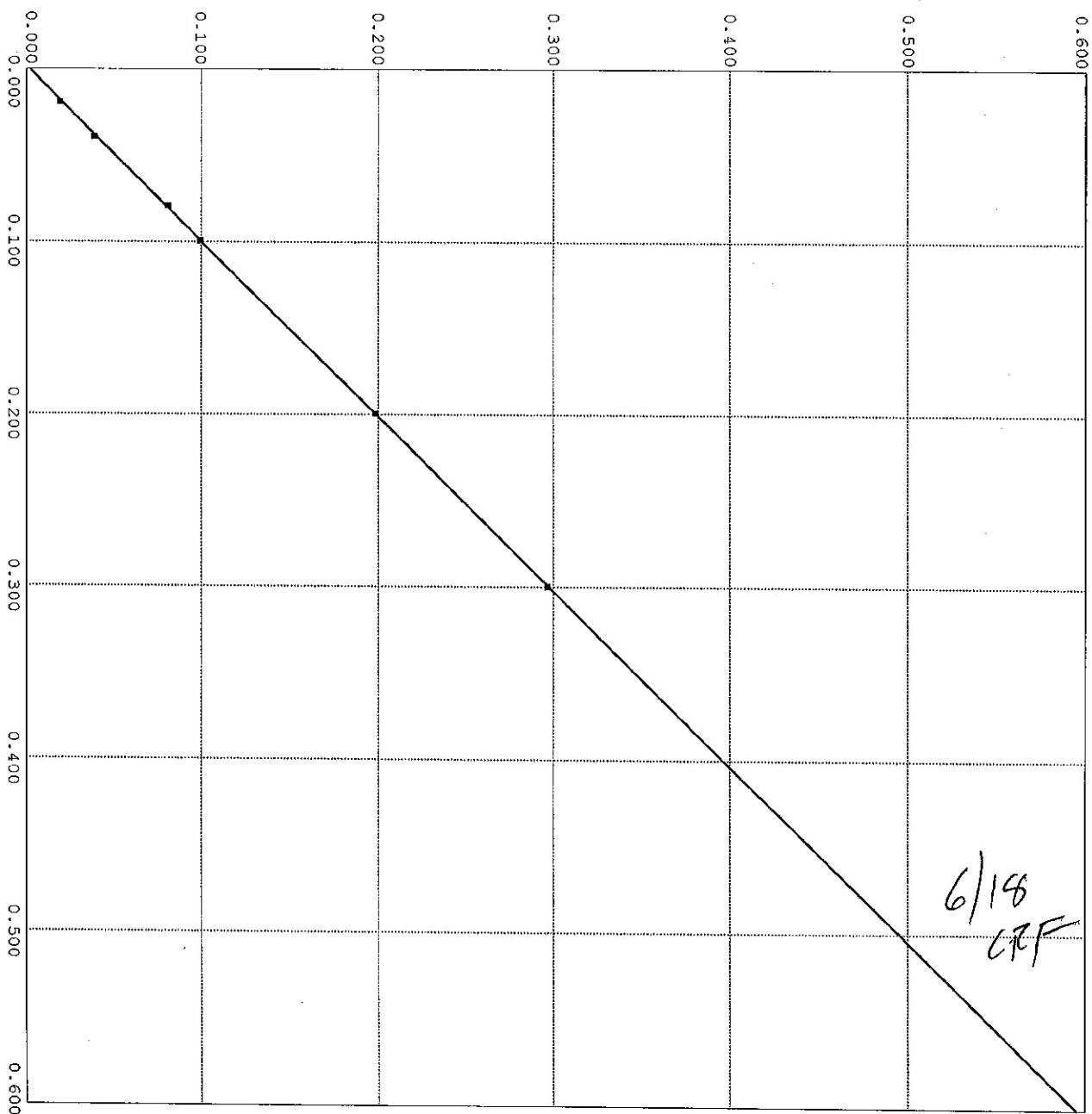
## LINEARITY CHECK

Alaska Department of Public Safety  
DATAMASTER dmt: 100399Date: 10/13/2011  
Time: 14:14:08SUPERVISOR NAME:  
CHARLES FOSTER  
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0200	0.0000
0.039	0.0398	0.0004
0.079	0.0814	0.0009
0.099	0.1002	0.0004
0.199	0.1992	0.0004
0.299	0.2972	0.0004

SLOPE = 0.989417  
 $R^2$  = 0.999970

CRF



## LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100399

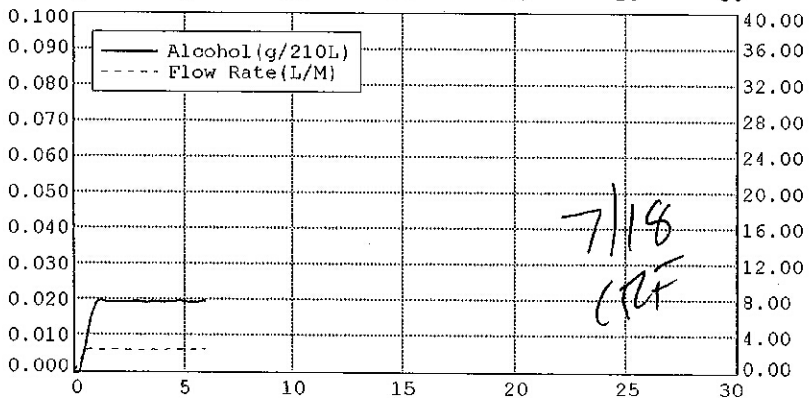
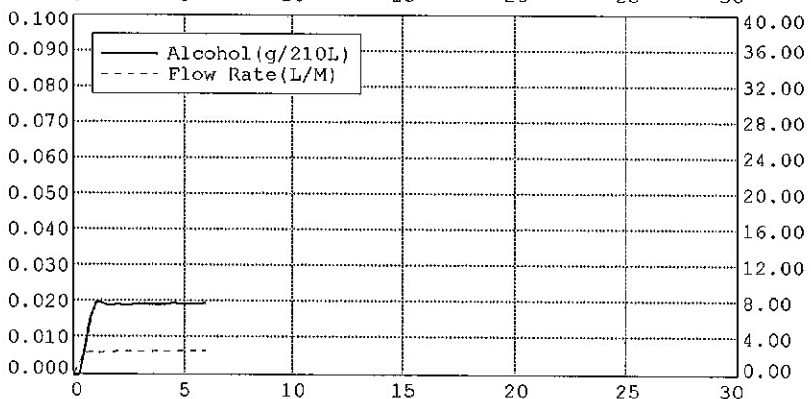
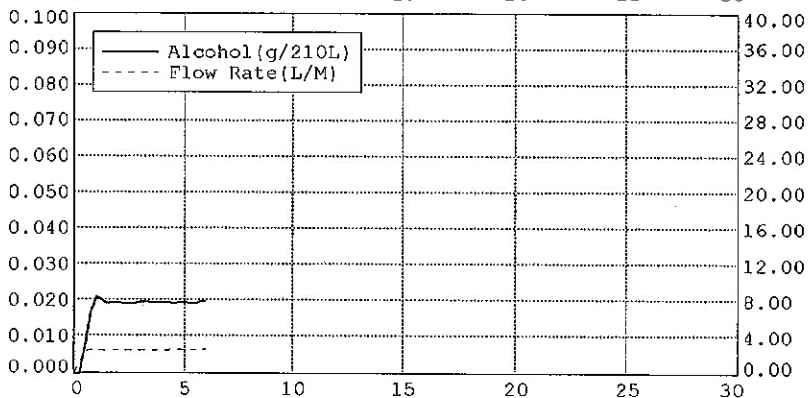
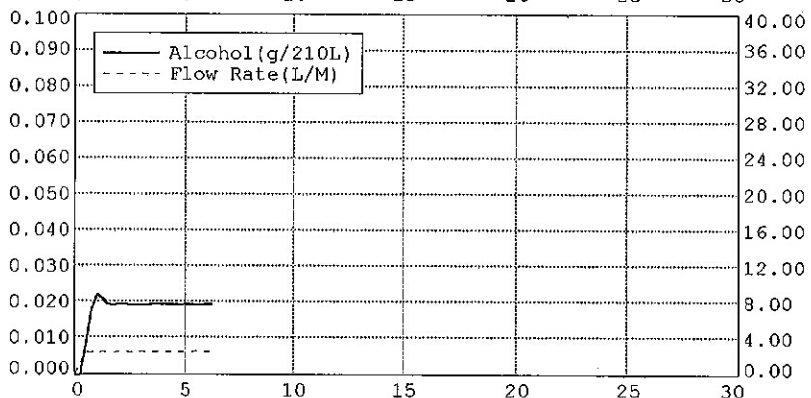
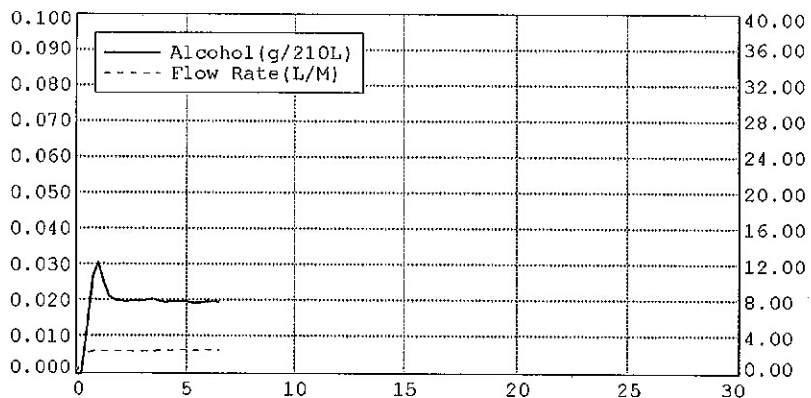
Date: 10/13/2011  
Time: 14:14:09

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.92: 0.019  
LOT #: 07611020A5  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:15
EXTERNAL STANDARD	0.020	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.020	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.020	14:18
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.020	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.020	14:20
BLANK TEST	0.000	14:21

Average = 0.0200  
Std Dev = 0.0000



## LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100399

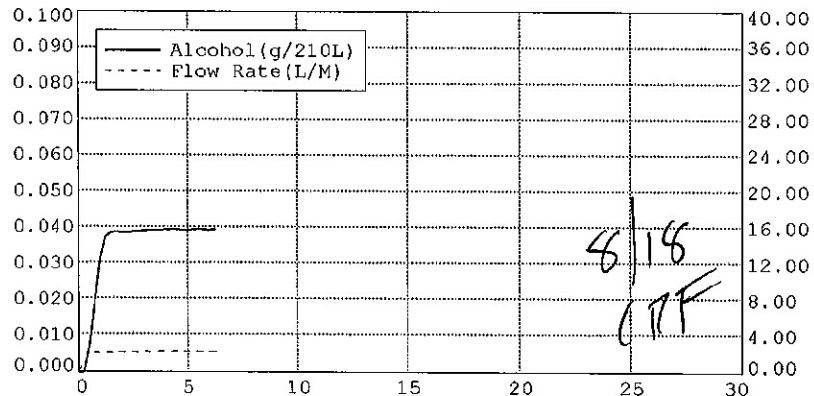
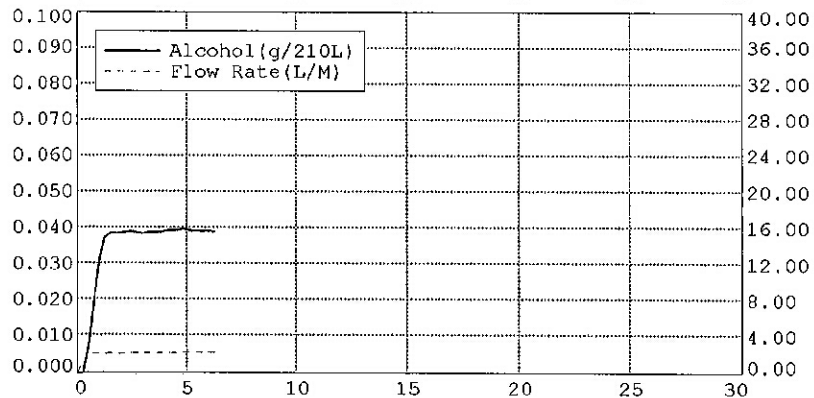
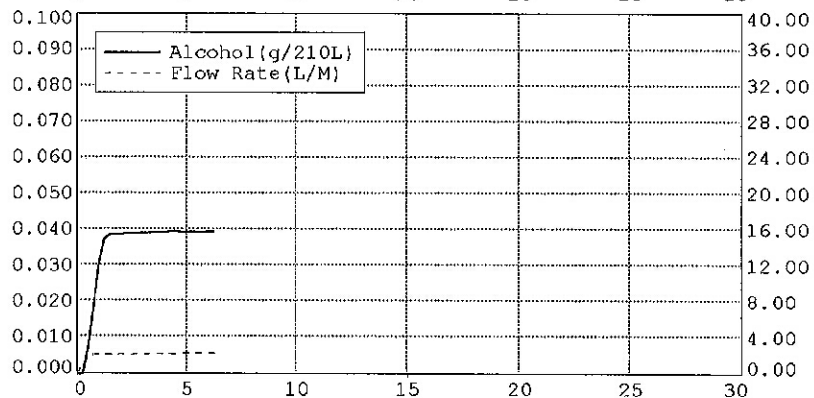
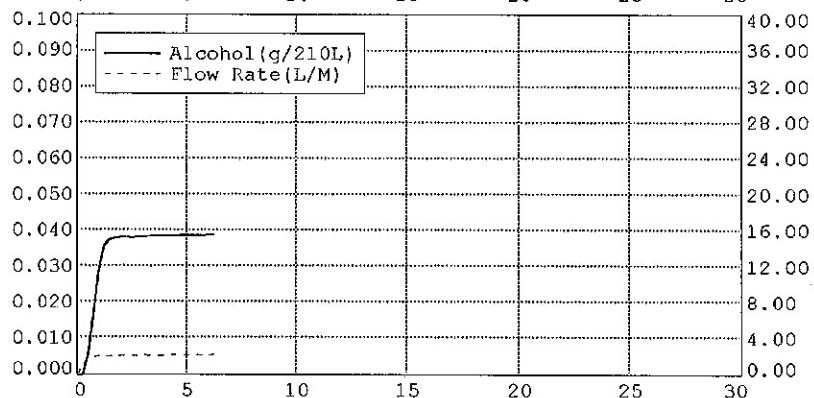
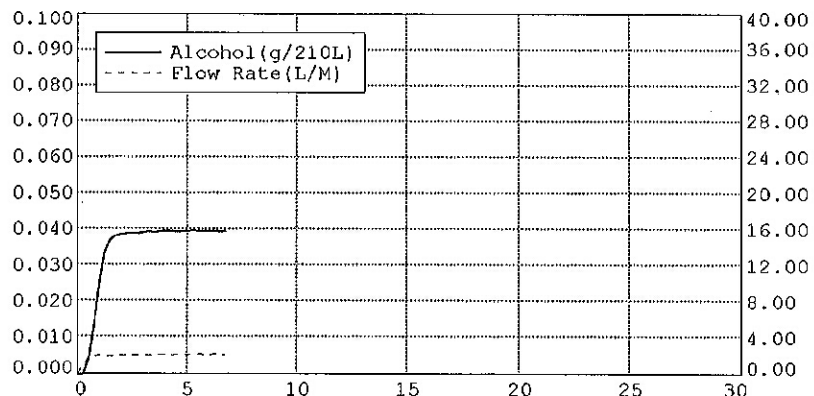
Date: 10/13/2011  
Time: 14:21:42

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
TARGET AT 29.90: 0.039  
LOT #: 02811040A2  
EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:22
INTERNAL STANDARD	VERIFIED	14:23
EXTERNAL STANDARD	0.040	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.039	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.040	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.040	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.040	14:27
BLANK TEST	0.000	14:28

Average = 0.0398  
Std Dev = 0.0004





## LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100399

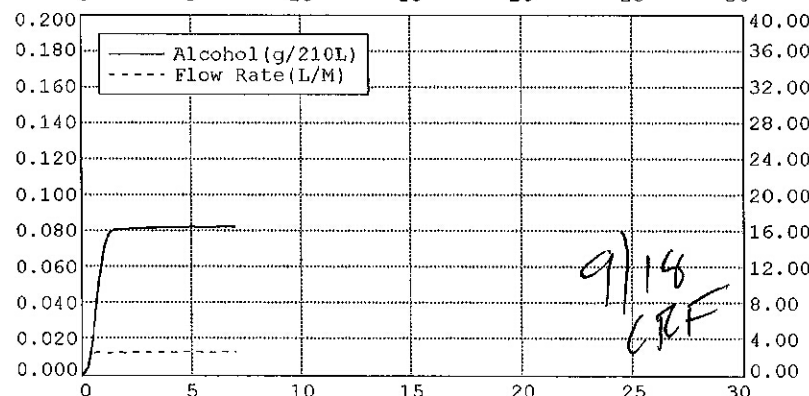
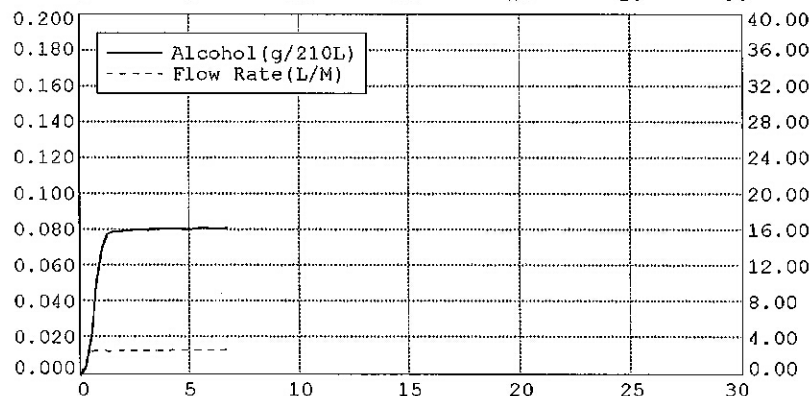
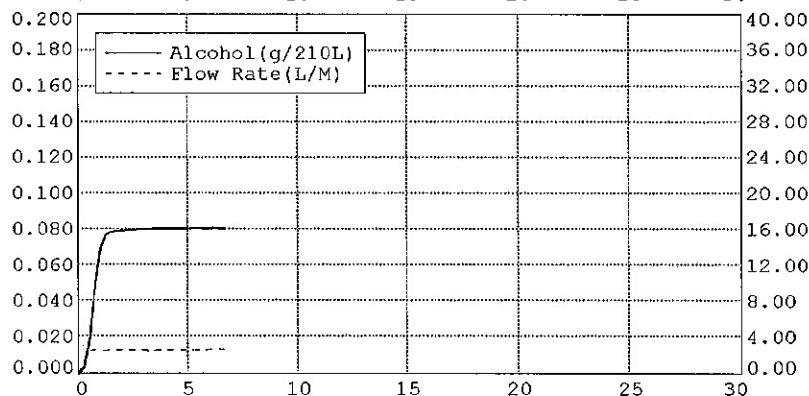
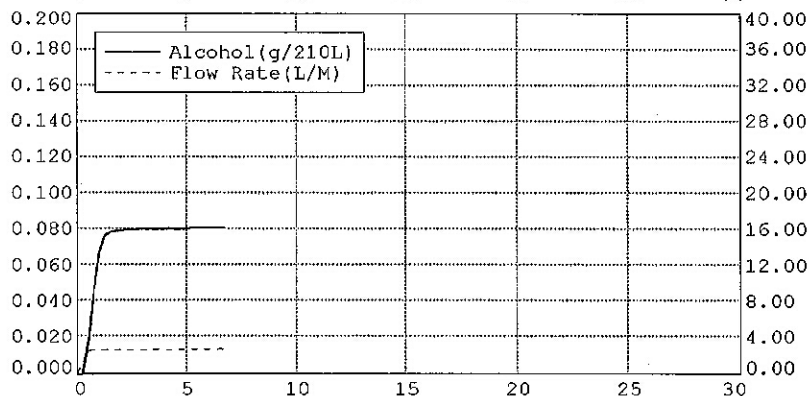
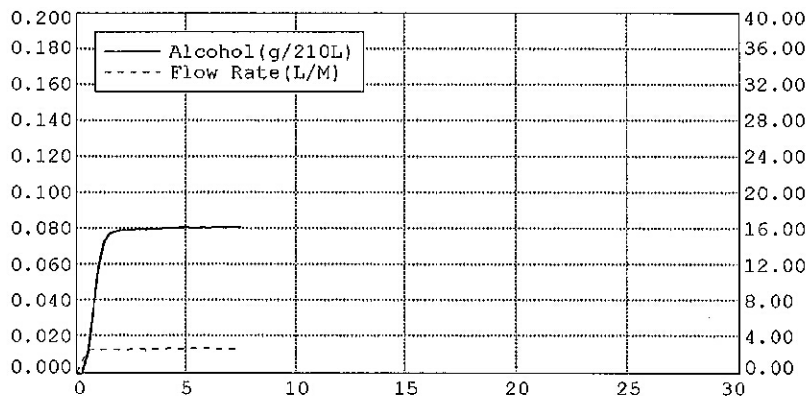
Date: 10/13/2011  
Time: 14:29:05

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.91: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:30
INTERNAL STANDARD	VERIFIED	14:30
EXTERNAL STANDARD	0.081	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.081	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.081	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.081	14:34
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.083	14:35
BLANK TEST	0.000	14:36

Average = 0.0814  
Std Dev = 0.0009



## LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
DATAMASTER dmt: 100399

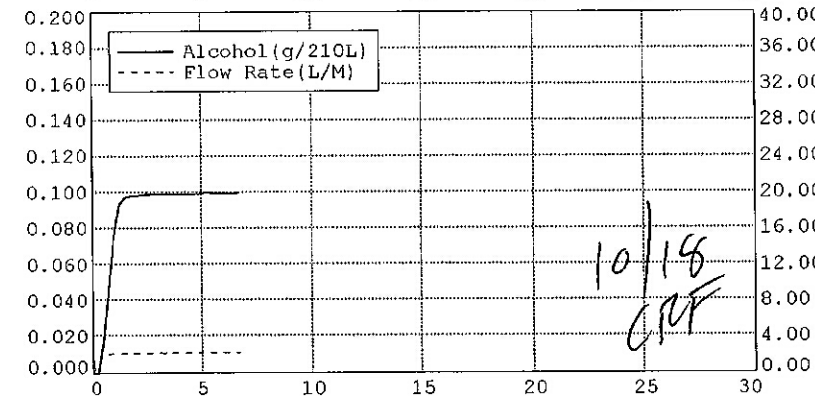
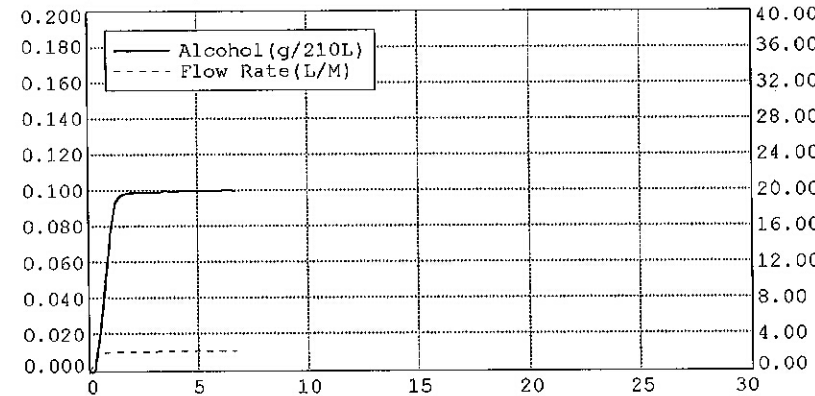
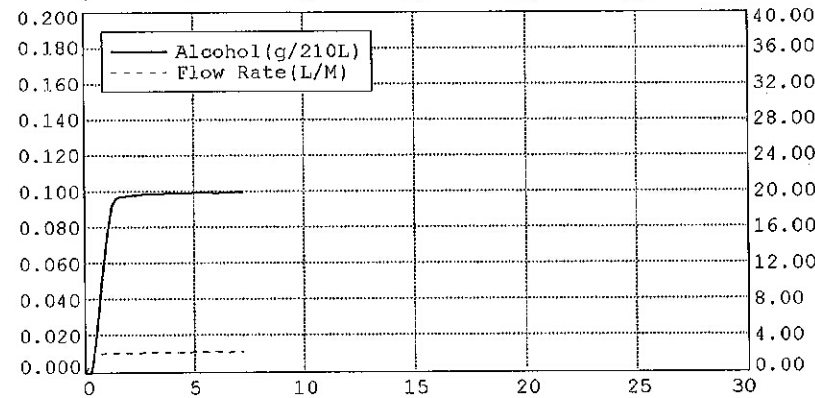
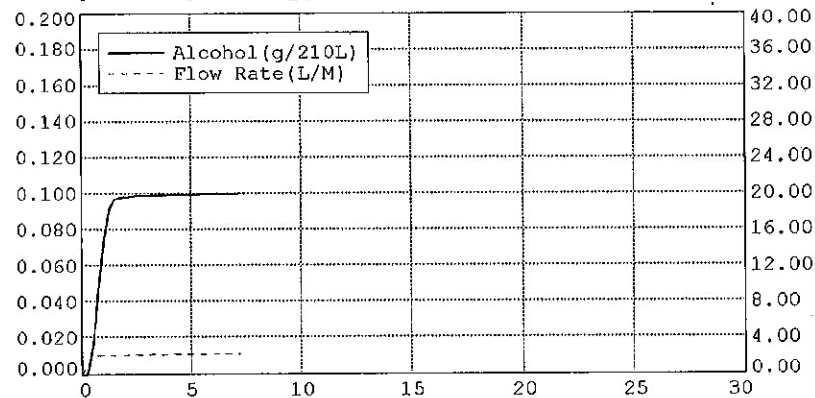
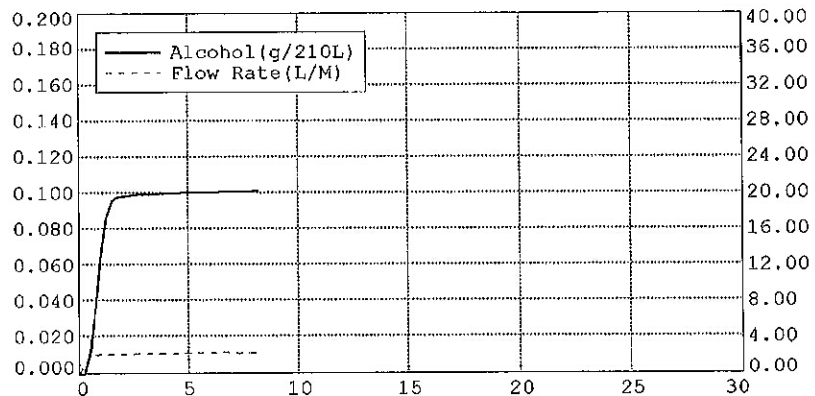
Date: 10/13/2011  
Time: 14:38:02

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
TARGET AT 29.90: 0.099  
LOT #: 05611100A2  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:39
INTERNAL STANDARD	VERIFIED	14:39
EXTERNAL STANDARD	0.101	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.100	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.100	14:42
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.100	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.100	14:44
BLANK TEST	0.000	14:45

Average = 0.1002  
Std Dev = 0.0004



## LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
DATAMASTER dmt: 100399

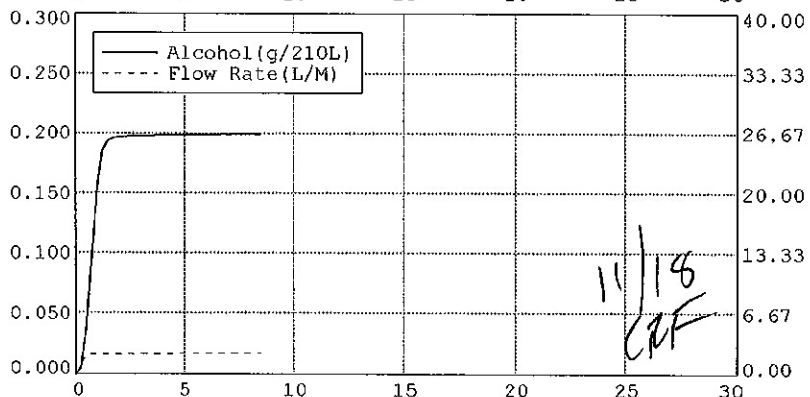
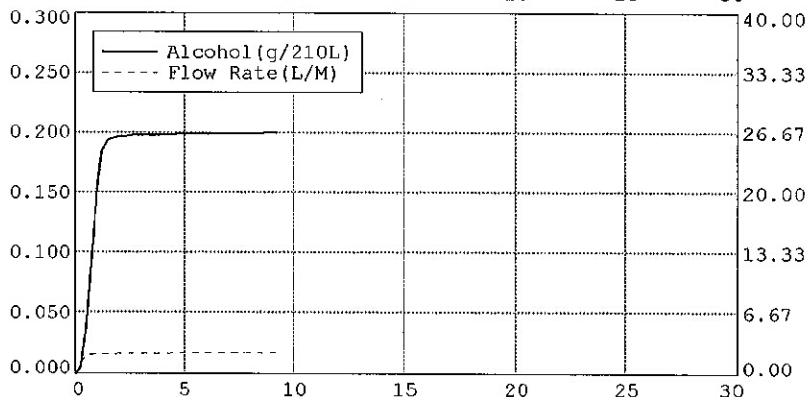
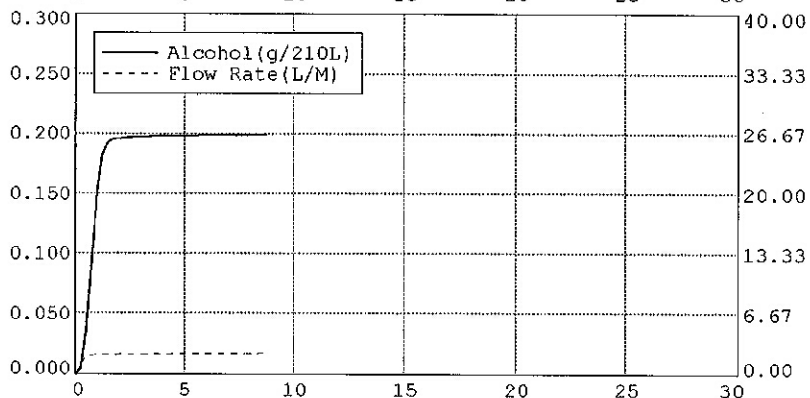
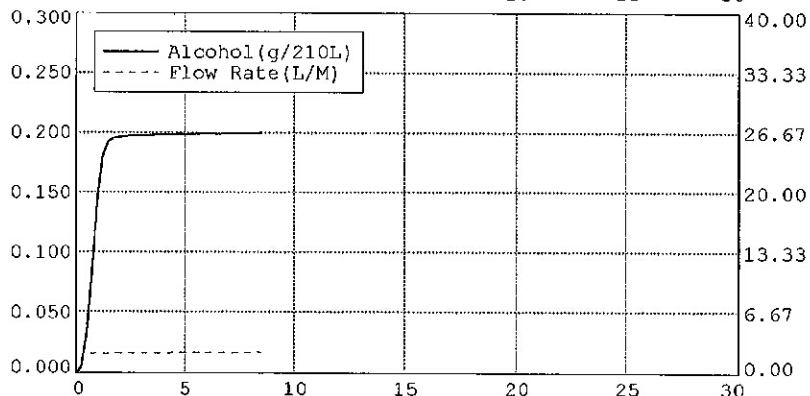
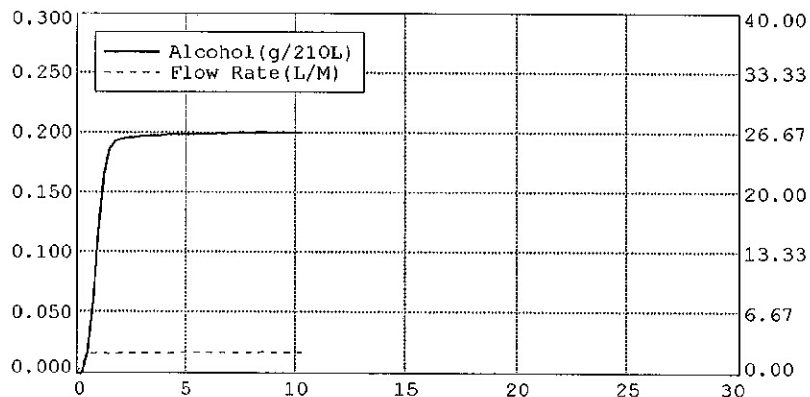
Date: 10/13/2011  
Time: 14:46:10

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200  
TARGET AT 29.90: 0.199  
LOT #: 07411200A2  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:47
INTERNAL STANDARD	VERIFIED	14:47
EXTERNAL STANDARD	0.200	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.199	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.199	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.199	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.199	14:52
BLANK TEST	0.000	14:53

Average = 0.1992  
Std Dev = 0.0004



## LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
DATAMASTER dmt: 100399

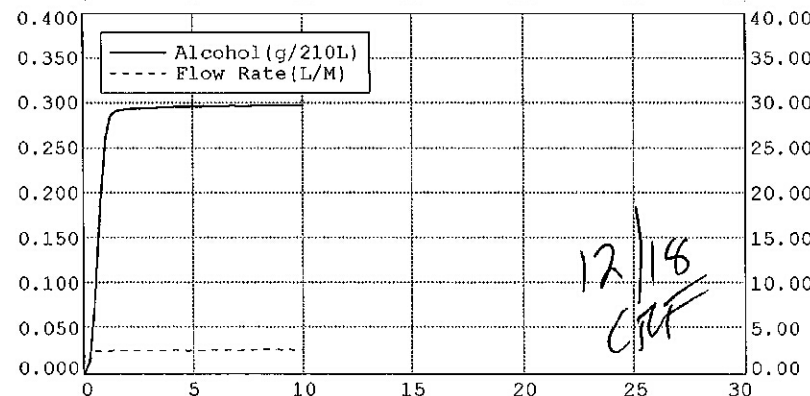
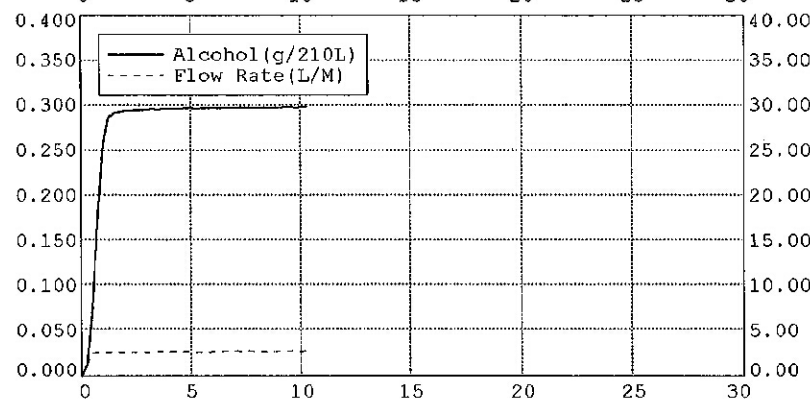
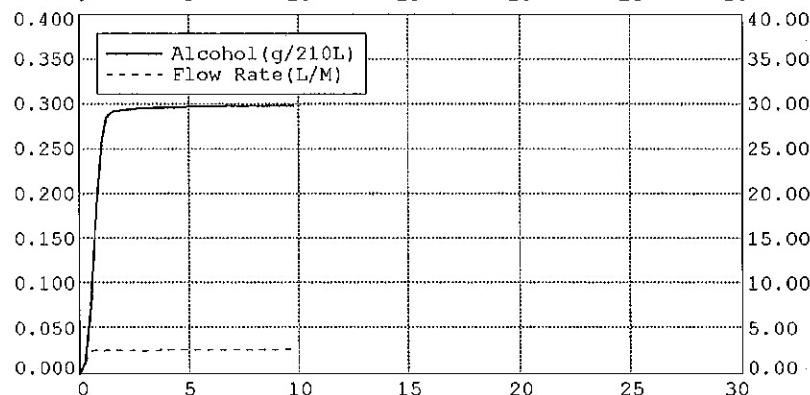
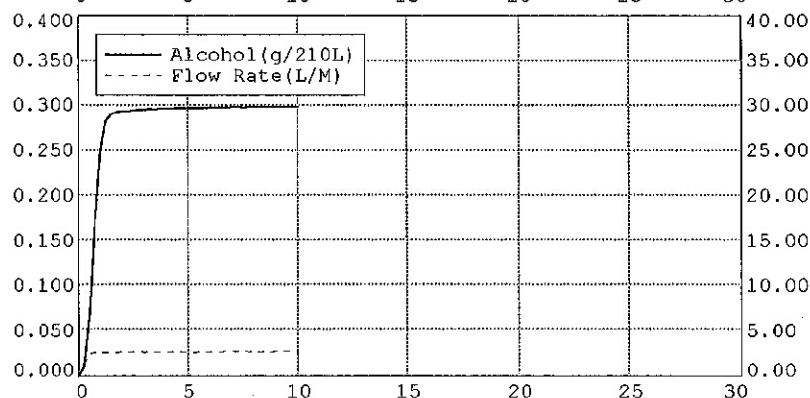
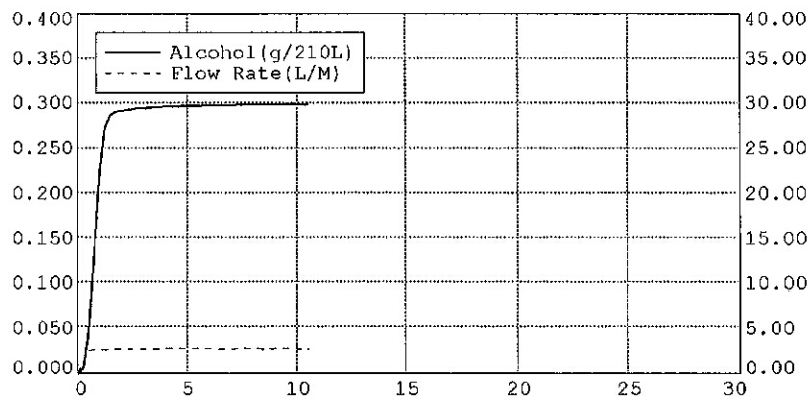
Date: 10/13/2011  
Time: 14:54:06

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
TARGET AT 29.90: 0.299  
LOT #: 07611300A1  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:55
EXTERNAL STANDARD	0.298	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.297	14:57
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.297	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.297	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.297	15:00
BLANK TEST	0.000	15:01

Average = 0.2972  
Std Dev = 0.0004



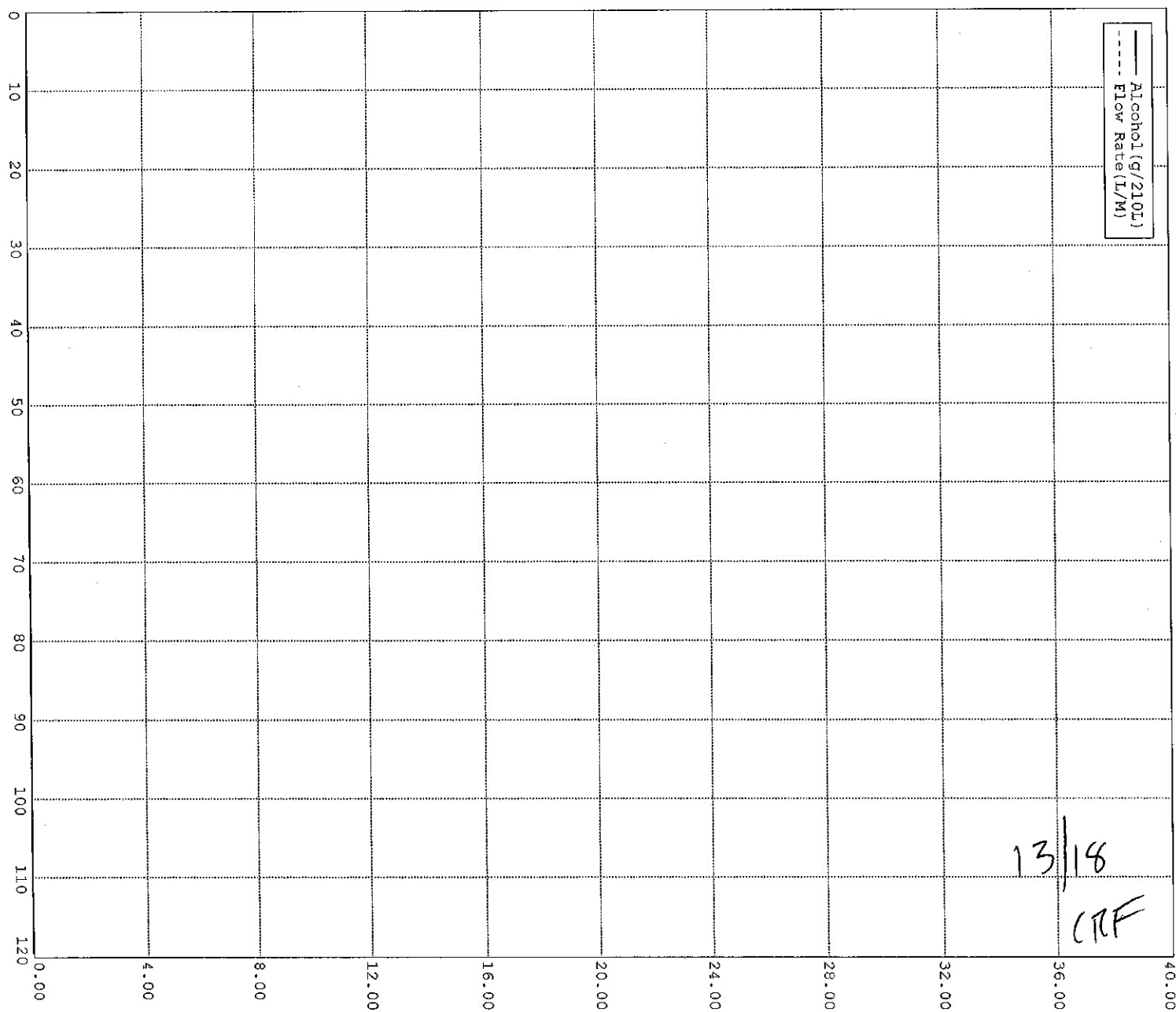


## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100399Date: 10/13/2011  
Time: 15:19:22SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXXOPERATOR NAME:  
INCOMPLETE XXXX  
OPERATOR'S #: XXXXDEPT/AGENCY:  
XXXX  
CASE/REPORT: XXXX  
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.90: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:20
BLANK TEST	0.000	15:20
INTERNAL STANDARD	VERIFIED	15:20
EXTERNAL STANDARD	0.082	15:20
BLANK TEST	0.000	15:21
SUBJECT SAMPLE	INCOMPLETE	15:23

CRF



## SUBJECT TEST

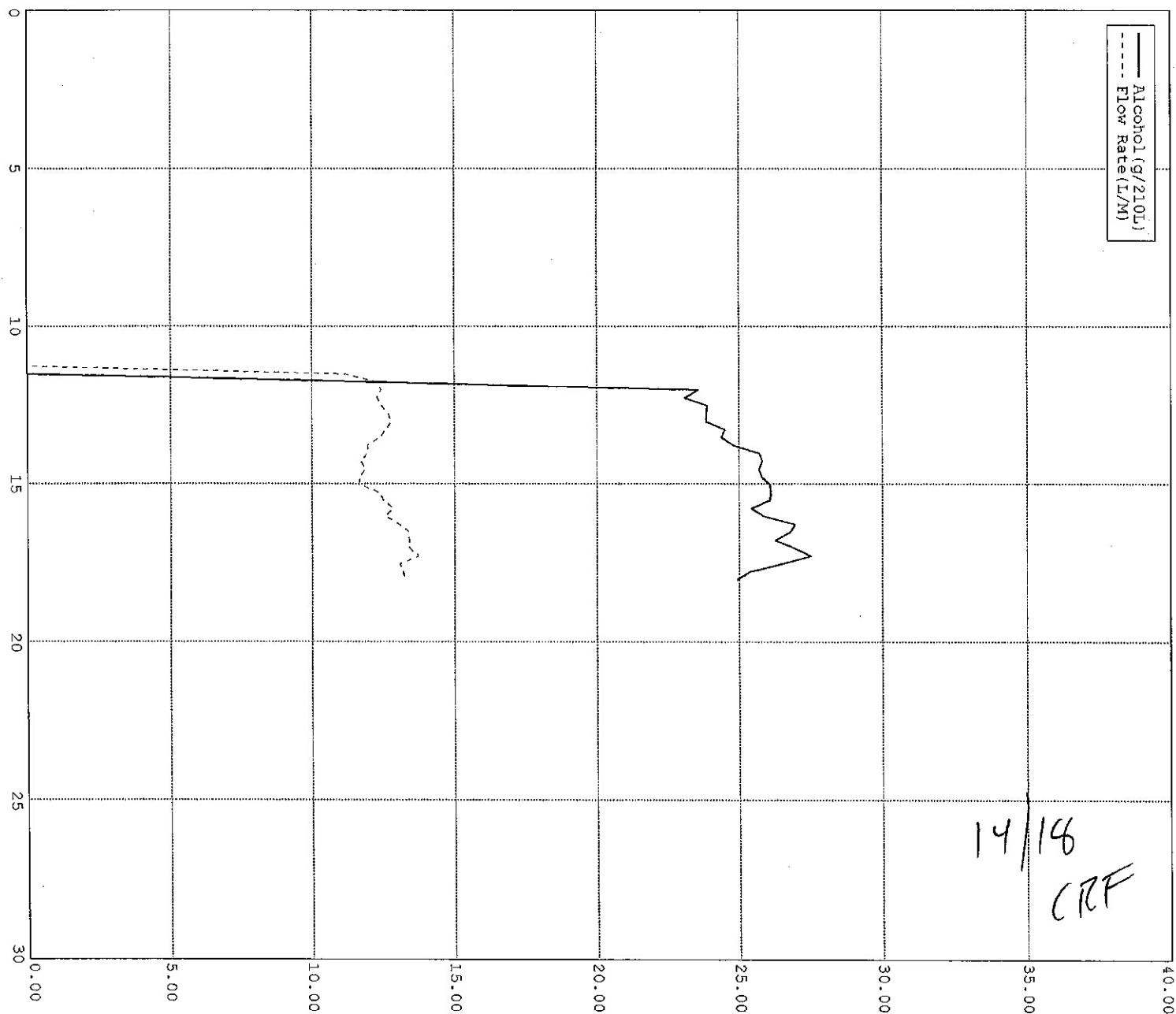
Alaska Department of Public Safety  
DATA MASTER dnt: 100399Date: 10/13/2011  
Time: 15:26:09SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXXOPERATOR NAME:  
INVALID KNOWN MOUTH ETOH  
OPERATOR'S #: XXXXDEPT/AGENCY:  
XXXXCASE/REPORT: XXXX  
TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.89: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:30
BLANK TEST	0.000	15:30
INTERNAL STANDARD	VERIFIED	15:30
EXTERNAL STANDARD	0.082	15:30
BLANK TEST	0.000	15:31
SUBJECT SAMPLE	Invalid	15:32

CRF



## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100399

Date: 10/14/2011  
 Time: 09:14:56

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

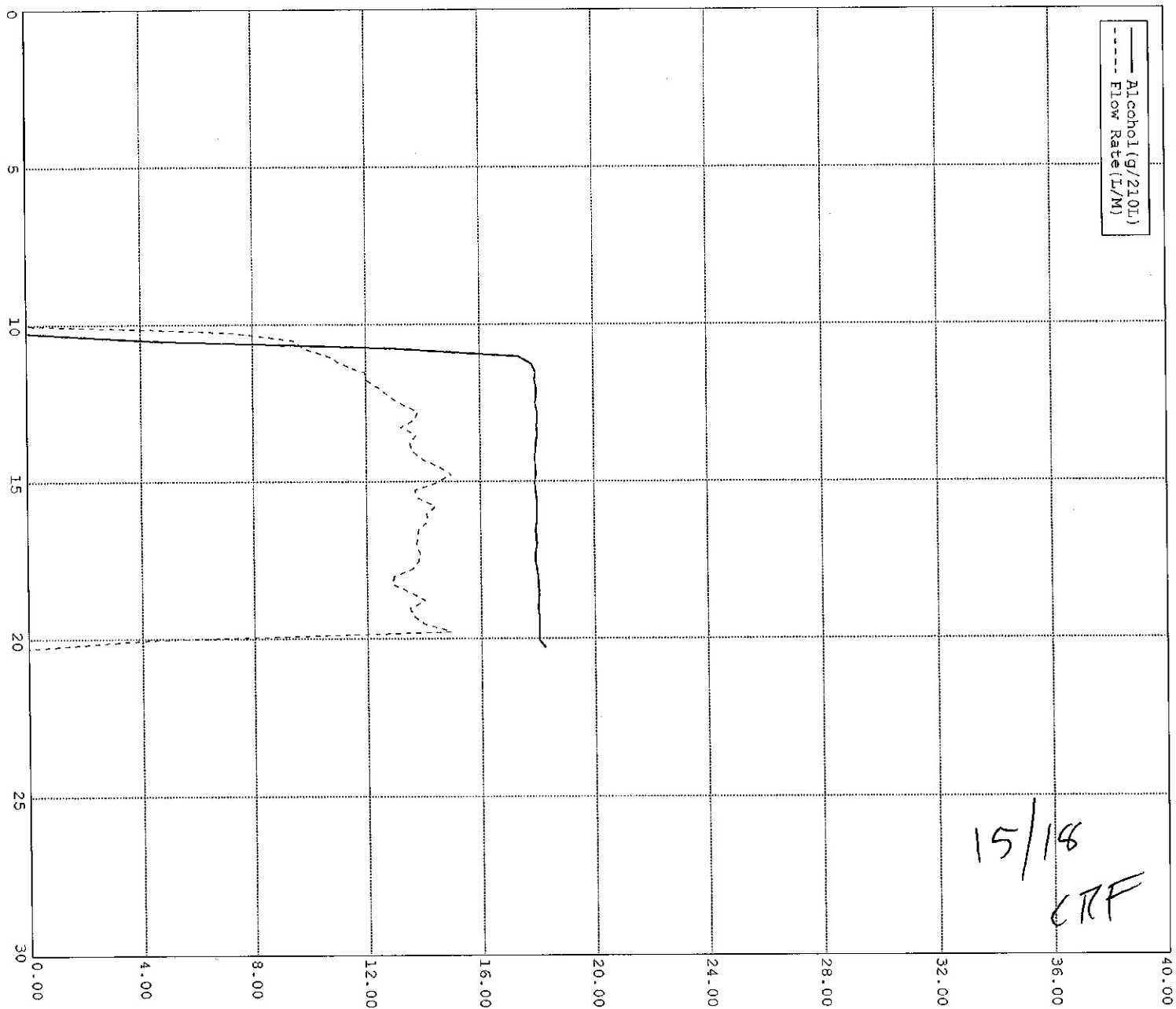
OPERATOR NAME:  
 INTERFERENCE ETOH AND ACETONE  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.38: 0.078  
 LOT #: 0751080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:15
BLANK TEST	0.000	09:16
INTERNAL STANDARD	VERIFIED	09:16
EXTERNAL STANDARD	0.079	09:16
BLANK TEST	0.000	09:17
SUBJECT SAMPLE	INTERFERENCE	09:17

Alcohol(g/210L)  
 Flow Rate(L/M)



CRF

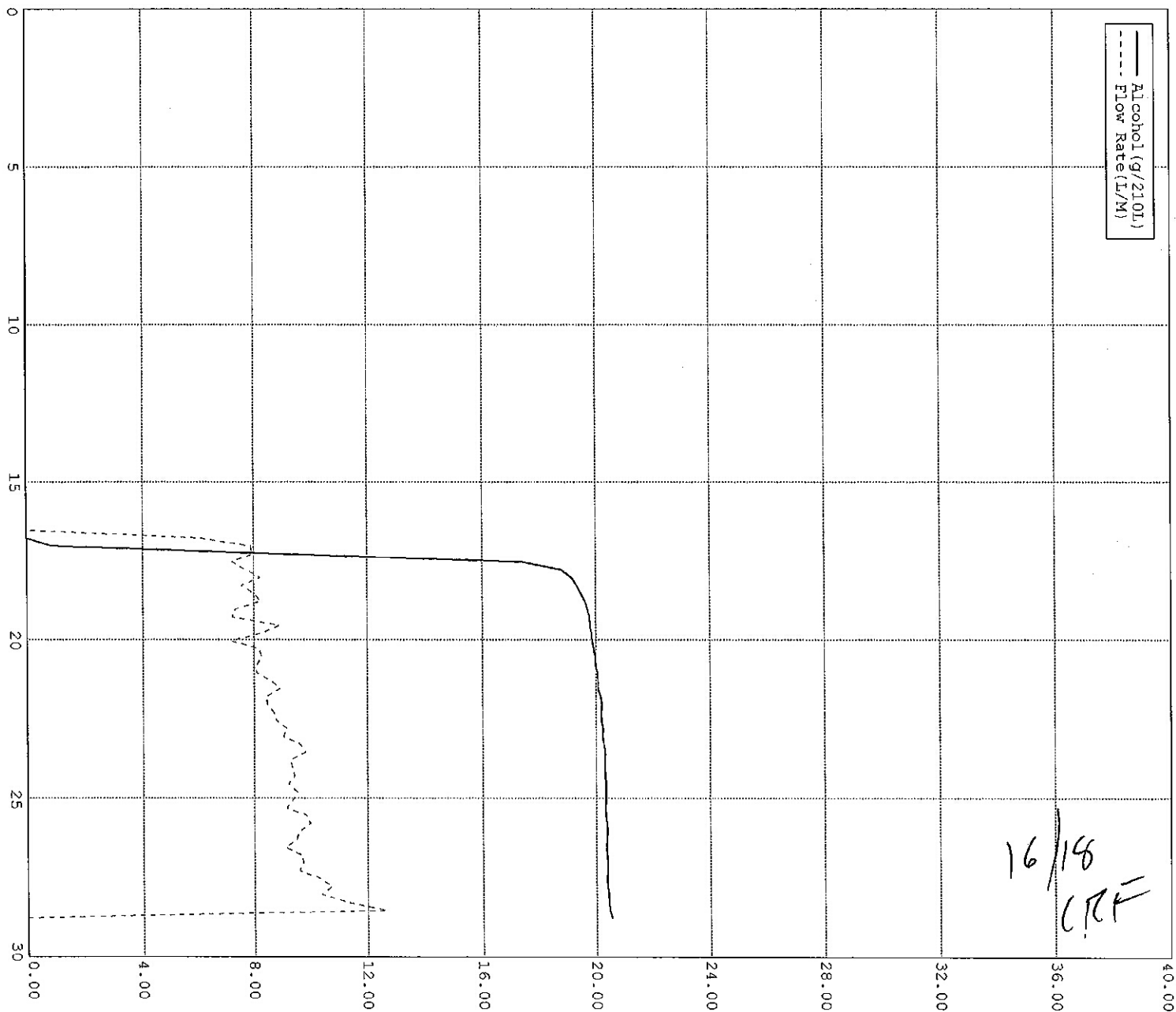
## SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dnt: 100399Date: 10/14/2011  
Time: 08:59:42SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXXOPERATOR NAME:  
INTERFERENCE ETOH AND IPA  
OPERATOR'S #: XXXXDEPT/AGENCY:  
XXXXCASE/REPORT: XXXX  
TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.39: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

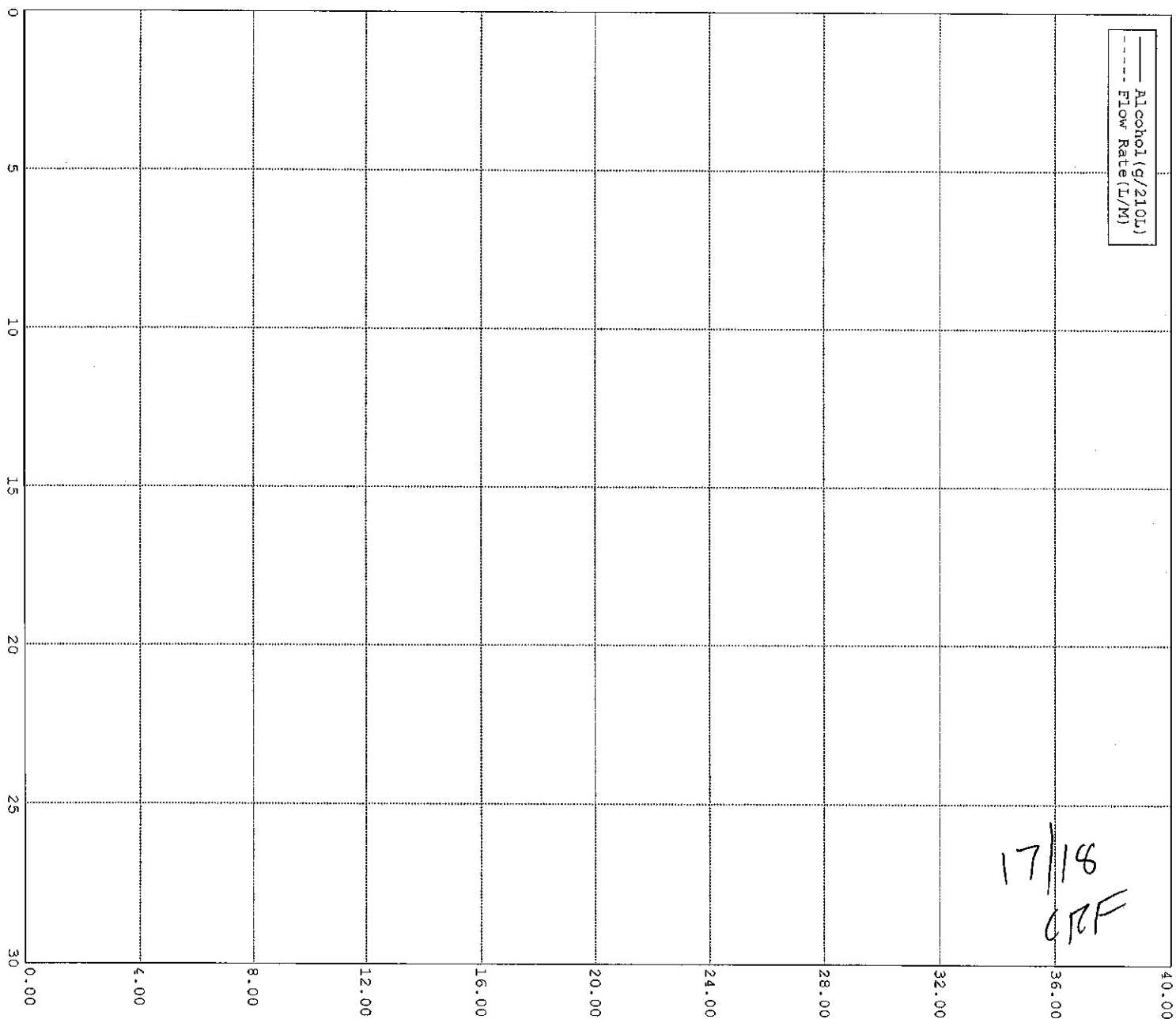
DIAGNOSTIC CHECK	PASSED	09:00
BLANK TEST	0.000	09:00
INTERNAL STANDARD	VERIFIED	09:00
EXTERNAL STANDARD	0.079	09:01
BLANK TEST	0.000	09:02
SUBJECT SAMPLE	INTERFERENCE	09:02

Alcohol (g/210L)  
Flow Rate (L/M)

## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmc: 100399Date: 10/13/2011  
Time: 15:35:52SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXXOPERATOR NAME:  
RFI XXXX  
OPERATOR'S #: XXXXDEPT/AGENCY:  
XXXX  
CASE/REPORT: XXXX  
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.88: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013DIAGNOSTIC CHECK  
BLANK TEST PASSED 15:38  
INTERNAL STANDARD VERIFIED 15:38  
EXTERNAL STANDARD 0.082 15:38  
BLANK TEST 0.000 15:39

RFI Detected

Alcohol(g/210L)  
Flow Rate(L/M)

## SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dnt: 100399

Date: 10/14/2011  
 Time: 09:30:47

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

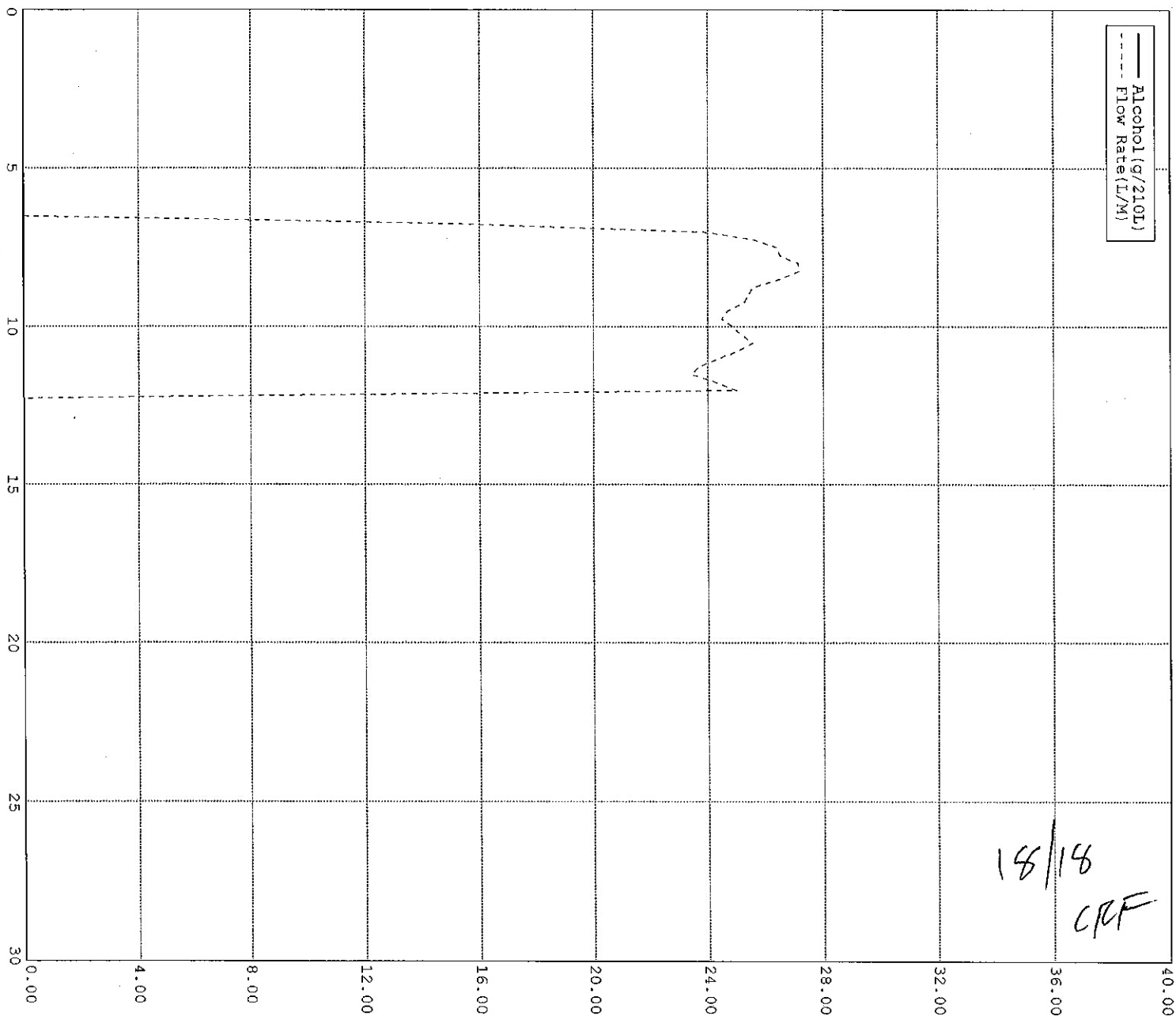
OPERATOR NAME:  
 CHARLES FOSTER  
 OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.38: 0.078  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:31
BLANK TEST	0.000	09:32
INTERNAL STANDARD	0.079	09:32
EXTERNAL STANDARD	0.000	09:33
BLANK TEST	0.000	09:33
SUBJECT SAMPLE	0.000	09:33
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.080	09:34
BLANK TEST	0.000	09:35

Alcohol (g/210L)  
 Flow Rate(L/M)



CTF

Final page for report

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2/18/2014