

	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 # 100352

1. Diagnostic Test (attached)

Analyst CRF

2. Voltage Checks

Date 10/13/11a. 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 1500 mL ☒

5. Dry Gas Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 15210020A1 Exp 7/1/12ii. 0.040g/210L Mnf ILMO Lot 02811040A2 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 Gerth Lot 10280 Level 0.080 Exp 11/17/121. Simulator Calibration Date 12/15/10 SN D174176ii. Isopropanol - Mnf Gerth 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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CRF

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 10/13/2011
Time: 12:55:51

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 45.9°C	PASSED

PUMP INFO

Flow Rate = 4.710 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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CRF

Technician Screen

DATAMASTER dmt: 100352

Date: 10/13/2011

Time: 1:18 PM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 45.1°C

Current Barometer 29.9 in

Volume (Ltr) 1.47

Settings

Lamp: 1.75 V

Bias: 78 V

Cooler: 1.75 V

Chopper: 535 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.019 V

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CRF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 10/05/2011
Time: 05:16:28

Ca = 0.1000
CAL = 1.004481 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0040 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.0883 0.0500 <= Xq < 0.2000
a21 = 1.152784 1.050 <= a21 < 1.300
a31 = 0.471371 0.300 <= a31 < 0.800

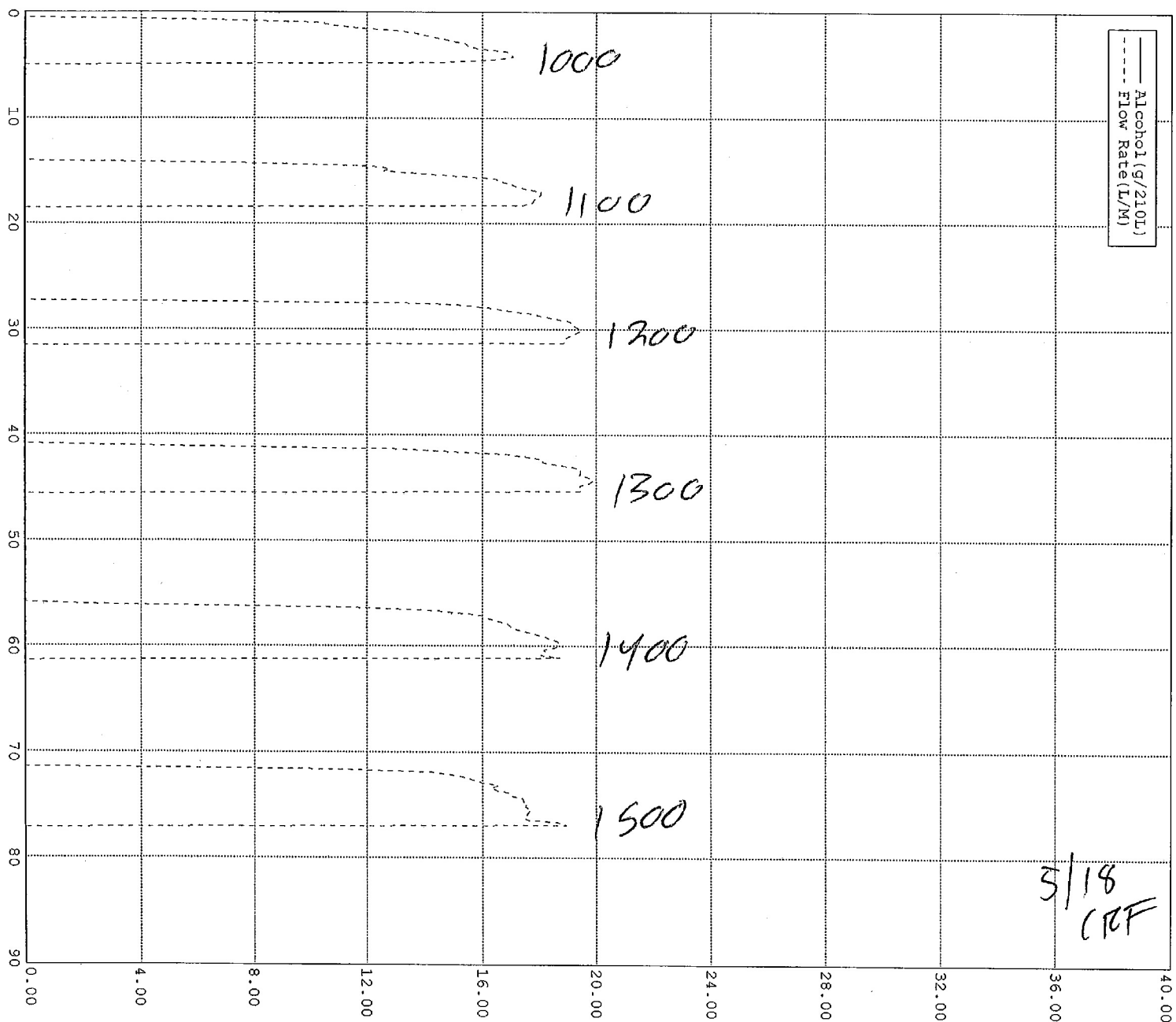
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CRF

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352Date: 10/13/2011
Time: 13:56:08SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

	PASSED	13:57
DIAGNOSTIC CHECK	0.000	13:57
BLANK TEST	0.081	13:57
INTERNAL STANDARD	0.000	13:57
EXTERNAL STANDARD	0.000	13:58
BLANK TEST	0.000	13:59
SUBJECT SAMPLE	0.000	14:00
BLANK TEST	0.081	14:01
EXTERNAL STANDARD	0.000	14:01
BLANK TEST	0.000	14:01

CRF



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

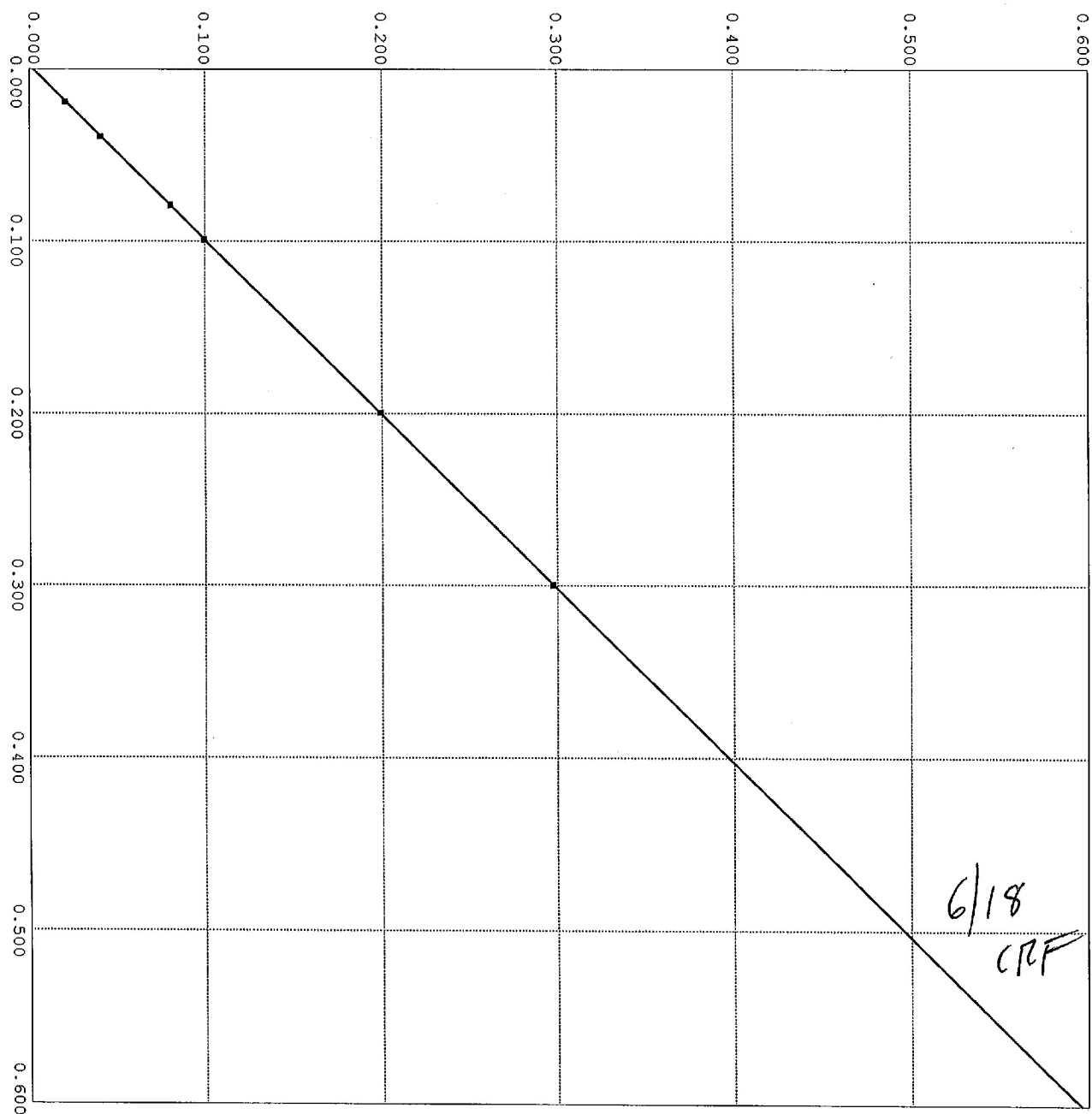
Date: 10/13/2011
 Time: 14:08:55

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0210	0.0000
0.039	0.0410	0.0000
0.079	0.0808	0.0004
0.099	0.1006	0.0005
0.199	0.2000	0.0000
0.299	0.2980	0.0000

SLOPE = 0.989697
 R^2 = 0.999995

CRF



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100352

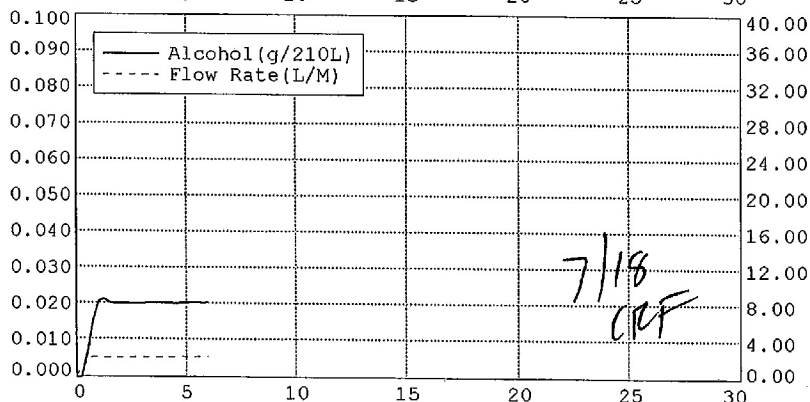
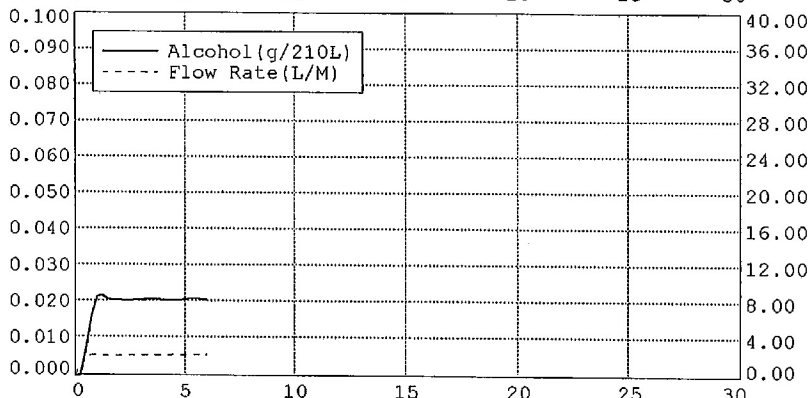
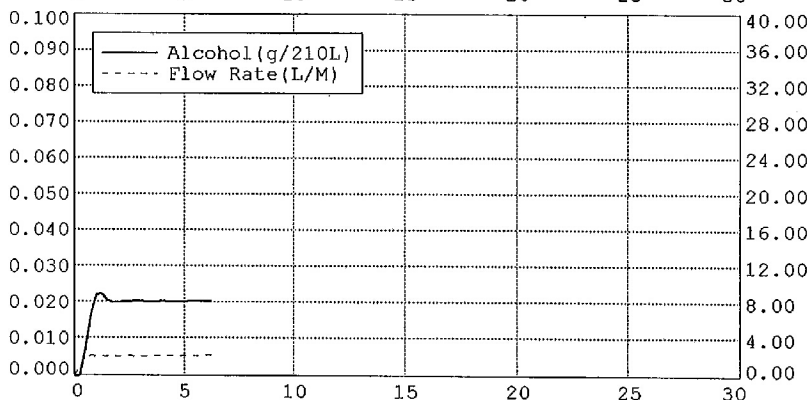
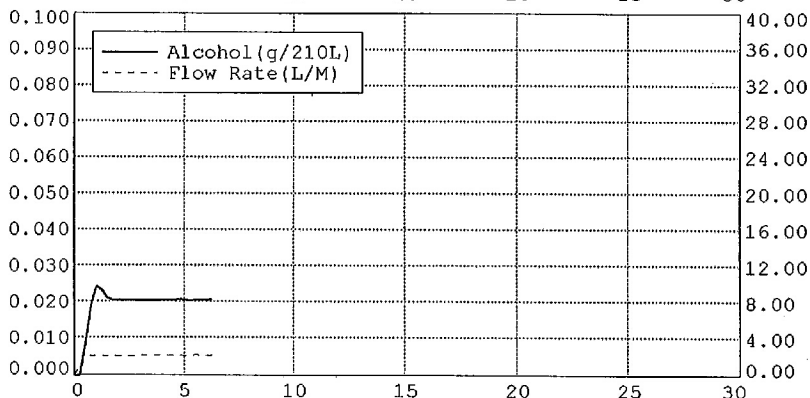
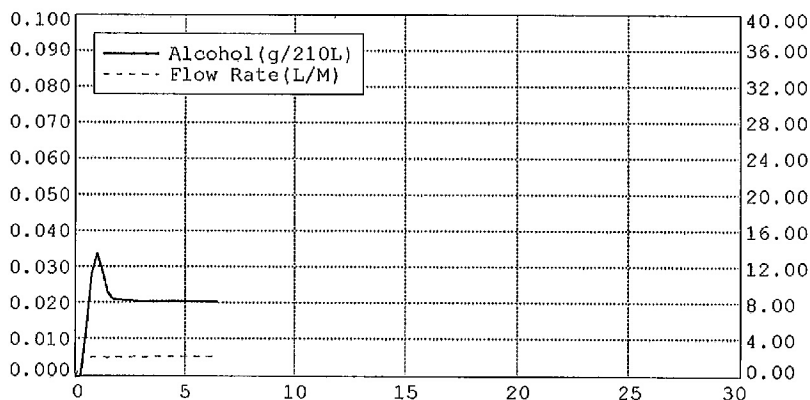
Date: 10/13/2011
Time: 14:08:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.92: 0.019
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:10
EXTERNAL STANDARD	0.021	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.021	14:12
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.021	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.021	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.021	14:15
BLANK TEST	0.000	14:16

Average = 0.0210
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

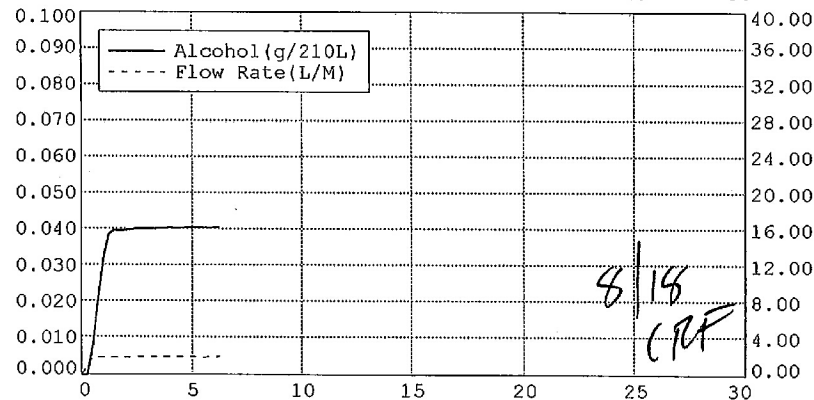
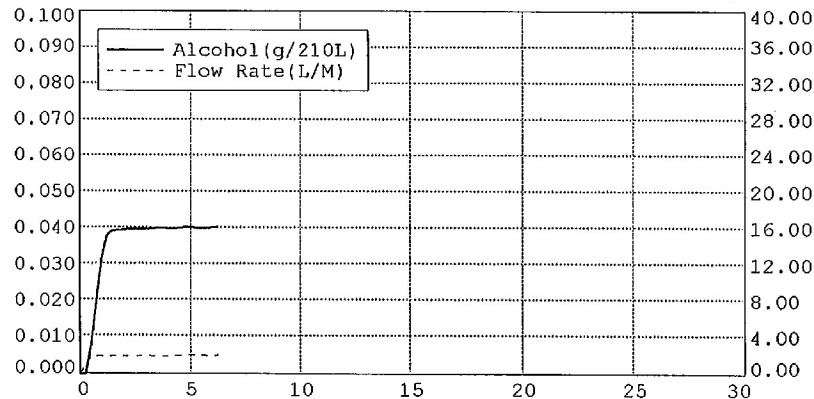
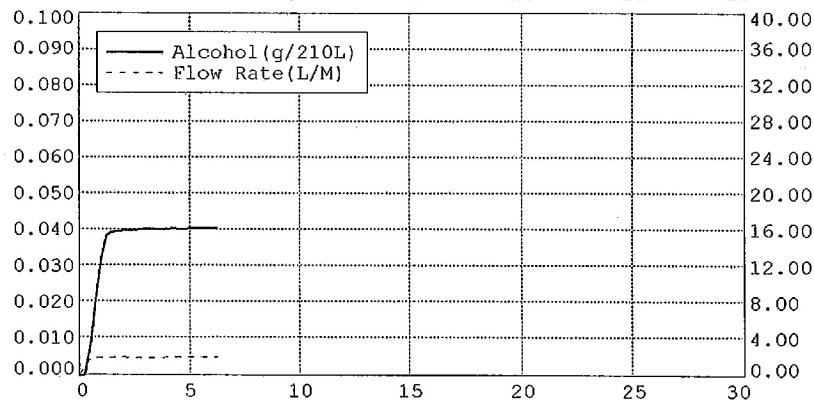
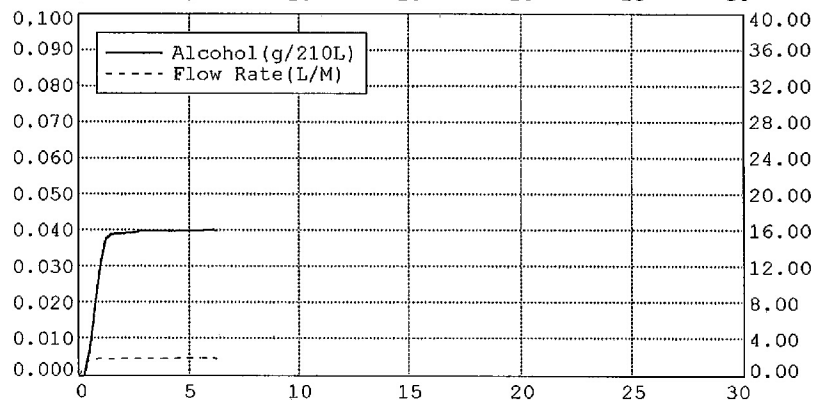
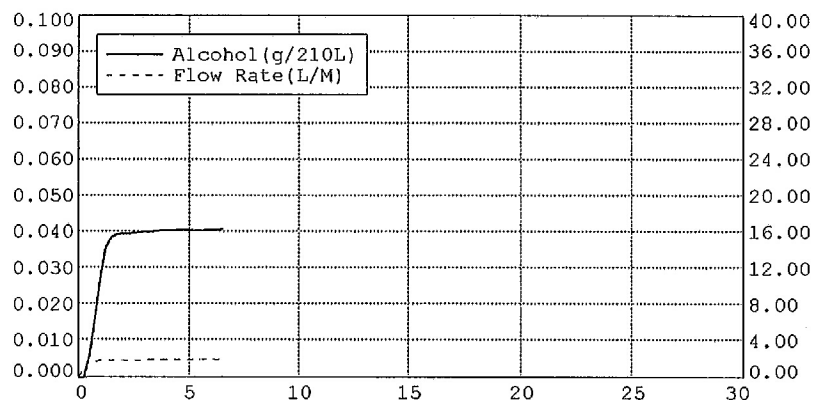
Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 10/13/2011
Time: 14:16:57

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.92: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:18
INTERNAL STANDARD	VERIFIED	14:18
EXTERNAL STANDARD	0.041	14:18
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.041	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.041	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.041	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.041	14:22
BLANK TEST	0.000	14:23

Average = 0.0410
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100352

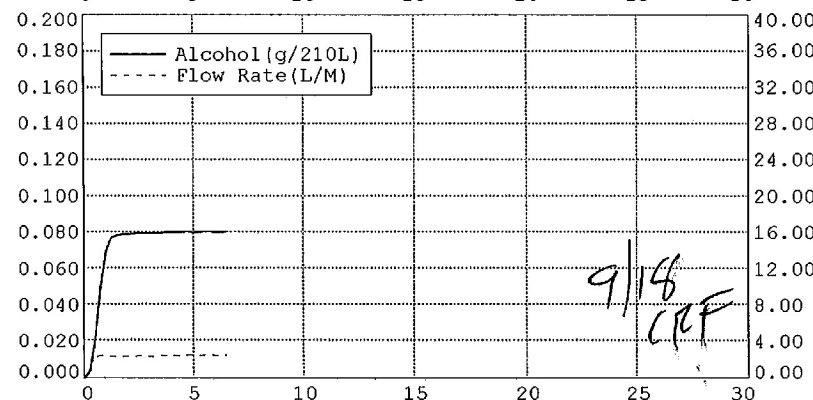
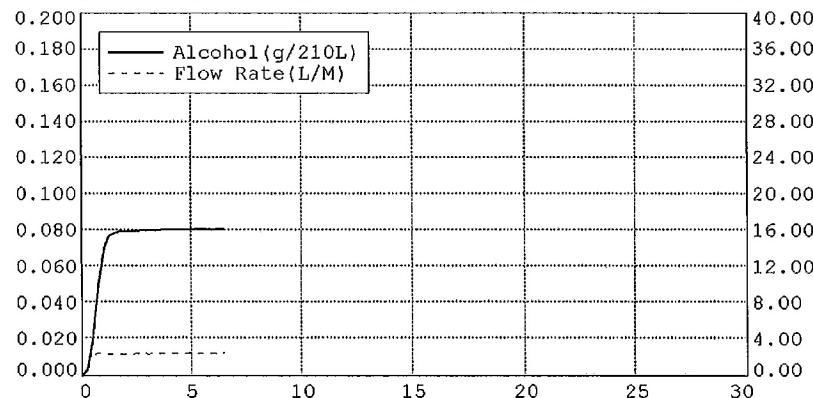
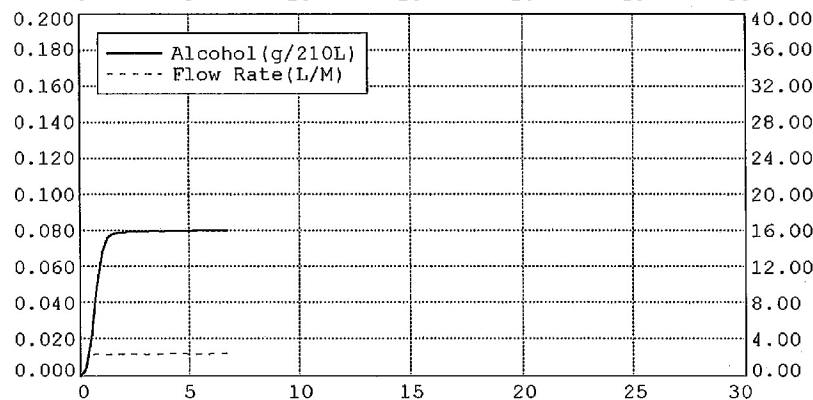
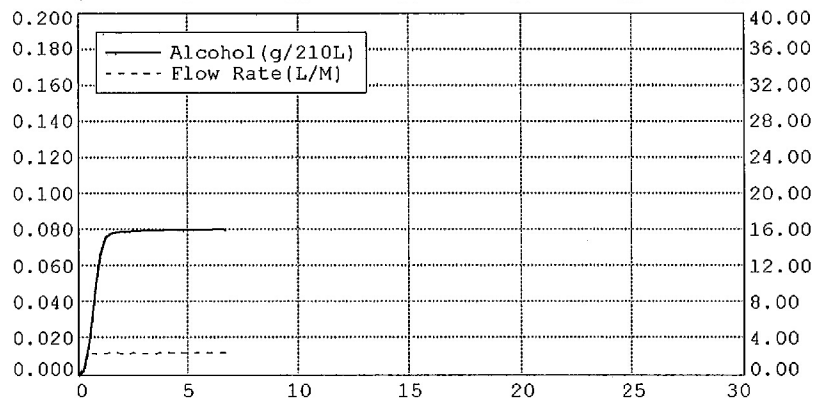
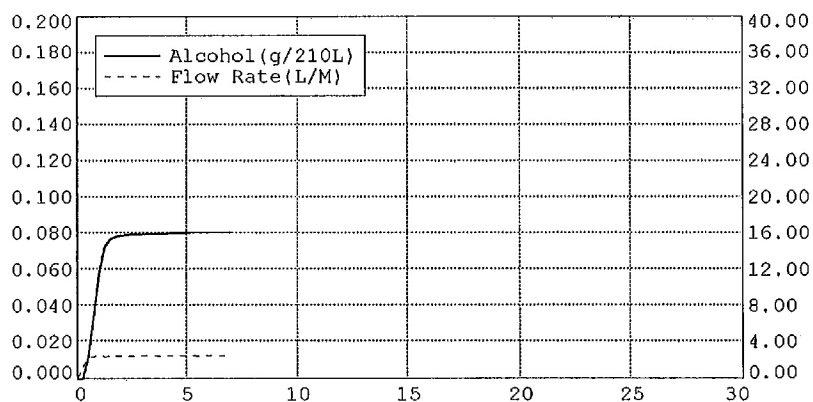
Date: 10/13/2011
Time: 14:24:31

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:25
INTERNAL STANDARD	VERIFIED	14:26
EXTERNAL STANDARD	0.081	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.080	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.081	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.081	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.081	14:30
BLANK TEST	0.000	14:31

Average = 0.0808
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt; 100352

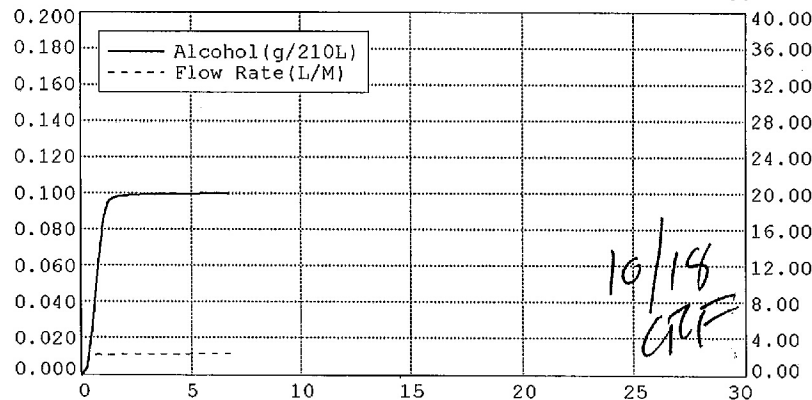
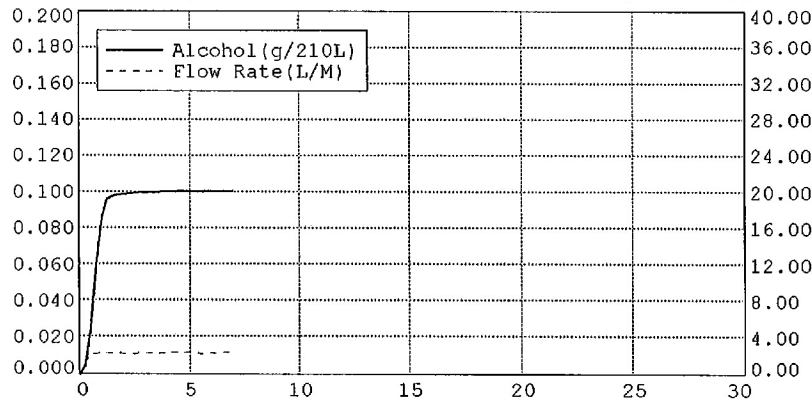
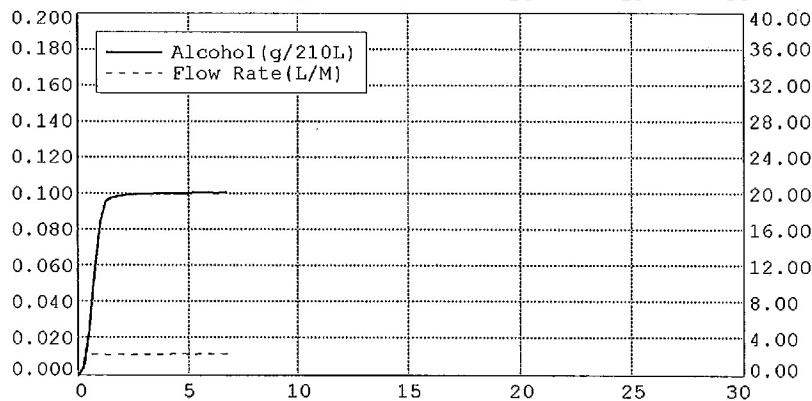
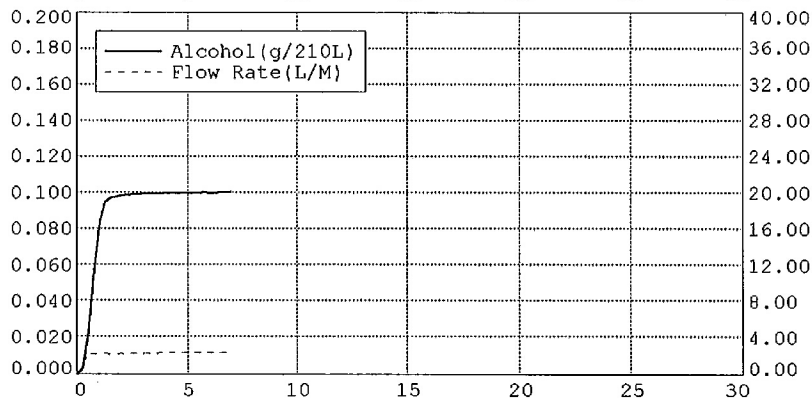
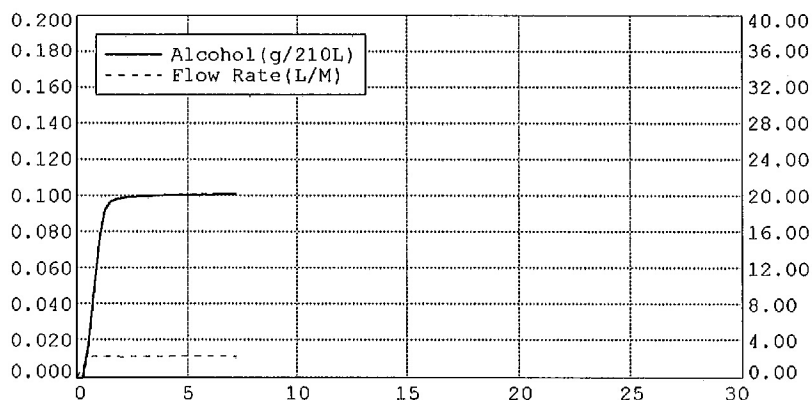
Date: 10/13/2011
Time: 14:32:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.91: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:34
INTERNAL STANDARD	VERIFIED	14:34
EXTERNAL STANDARD	0.101	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.100	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.101	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.101	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.100	14:39
BLANK TEST	0.000	14:39

Average = 0.1006
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

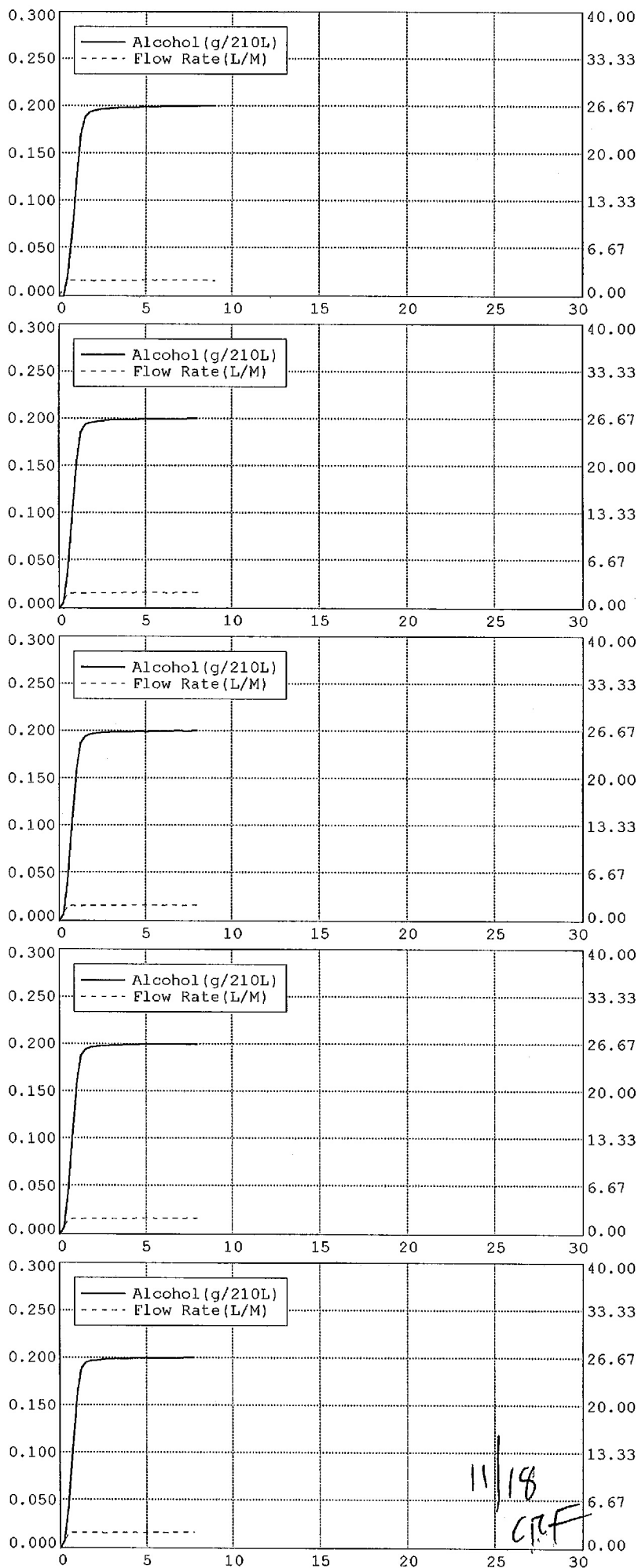
Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 10/13/2011
Time: 14:42:09

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
TARGET AT 29.91: 0.199
LOT #: 07411200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:43
INTERNAL STANDARD	VERIFIED	14:43
EXTERNAL STANDARD	0.200	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.200	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.200	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.200	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.200	14:48
BLANK TEST	0.000	14:49

Average = 0.2000
Std Dev = 0.0000



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100352

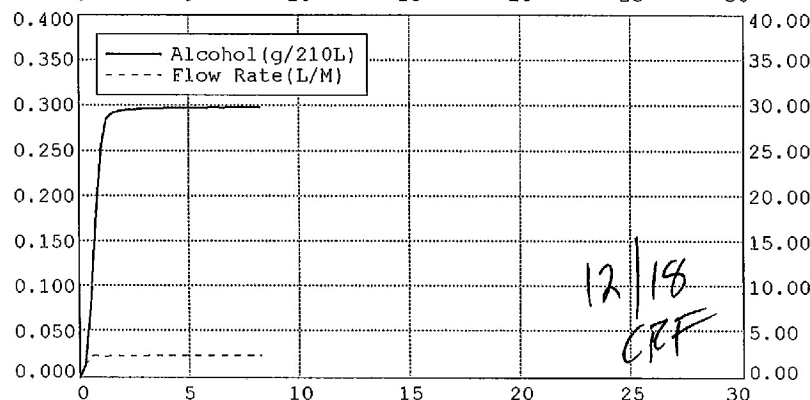
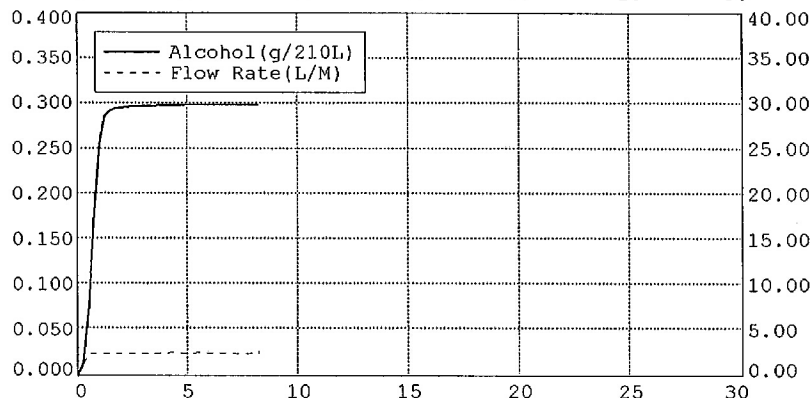
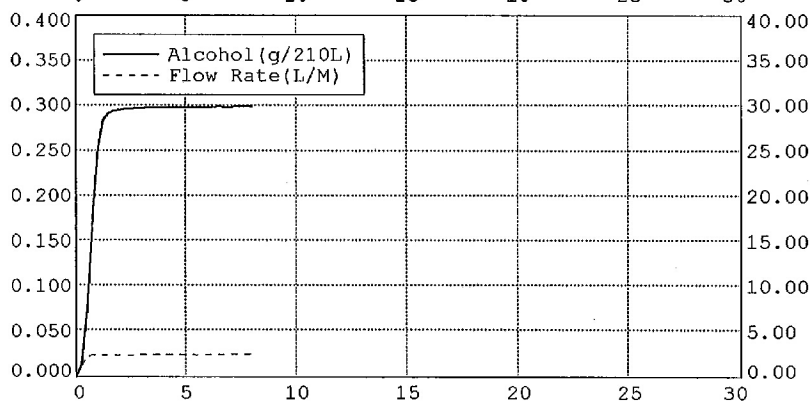
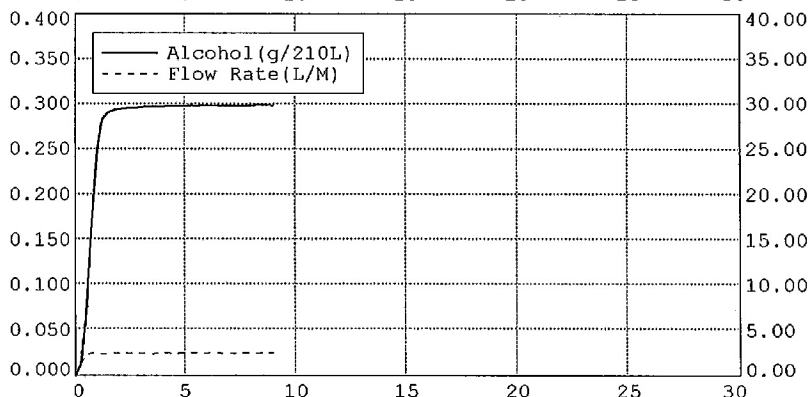
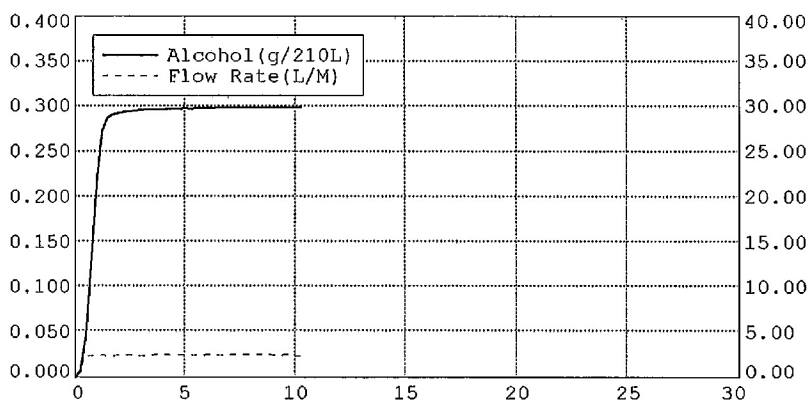
Date: 10/13/2011
Time: 14:50:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.92: 0.299
LOT #: 07611300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:52
EXTERNAL STANDARD	0.298	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.298	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.298	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.298	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.298	14:56
BLANK TEST	0.000	14:57

Average = 0.2980
Std Dev = 0.0000

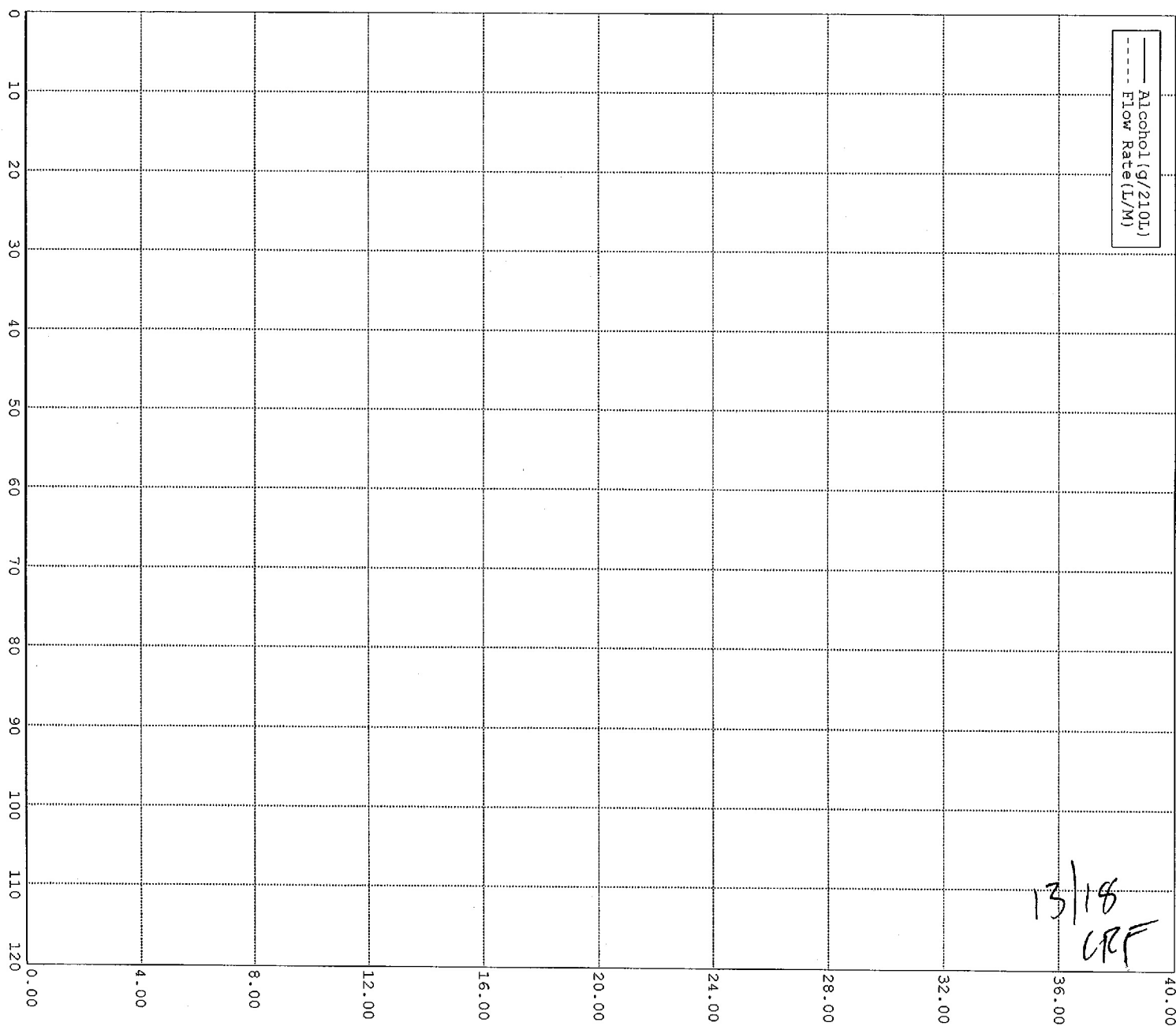


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352Date: 10/13/2011
Time: 15:15:23SUBJECT 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 29.91: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:16
BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
EXTERNAL STANDARD	0.081	15:16
BLANK TEST	0.000	15:17
SUBJECT SAMPLE	INCOMPLETE	15:19

CRF



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100352

Date: 10/13/2011
 Time: 15:25:31

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

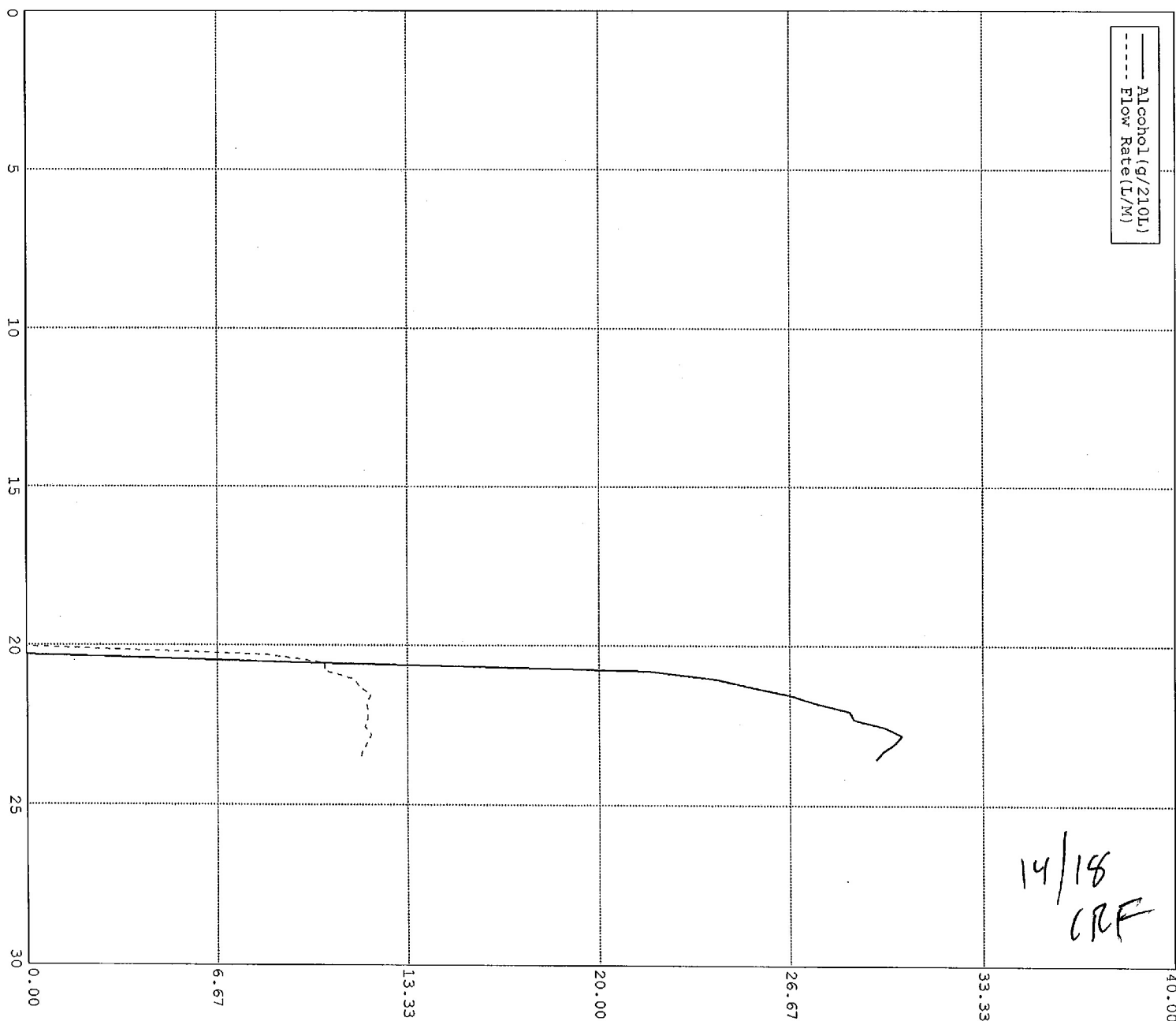
OPERATOR NAME:
 INVALID KNOWN MOUTH ETOH
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.90: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:29
BLANK TEST	0.000	15:29
INTERNAL STANDARD	VERIFIED	15:29
EXTERNAL STANDARD	0.081	15:29
BLANK TEST	0.000	15:30
SUBJECT SAMPLE	Invalid	15:31

CTCF



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 10/14/2011

Time: 09:05:48

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 29.40: 0.078

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

BLANK TEST

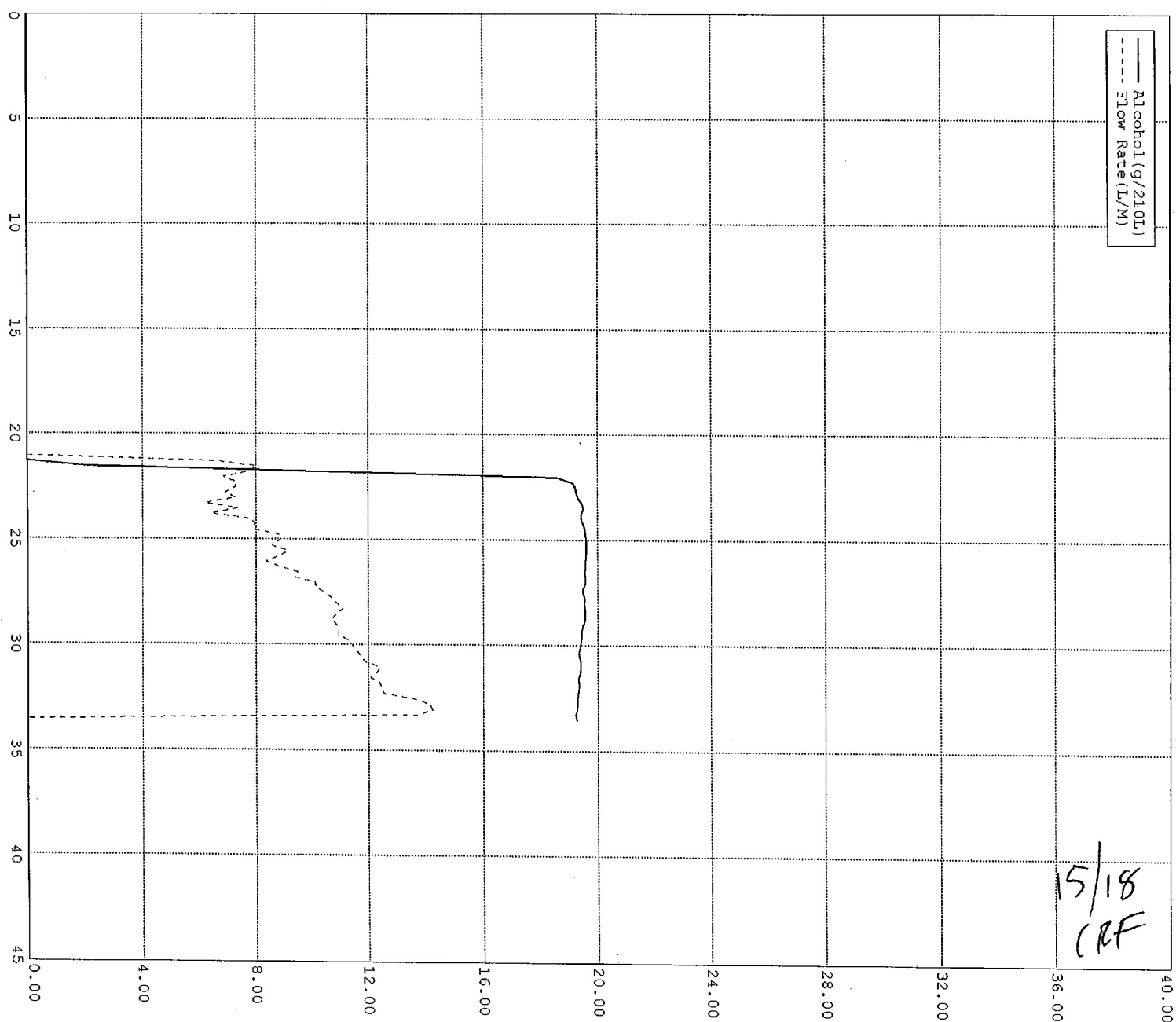
INTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED	09:06
0.000	09:07
VERIFIED	09:07
0.078	09:07
EXTERNAL STANDARD	0.000
0.000	09:08
INTERFERENCE	09:08

CRF



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 10/14/2011
 Time: 09:19:44

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

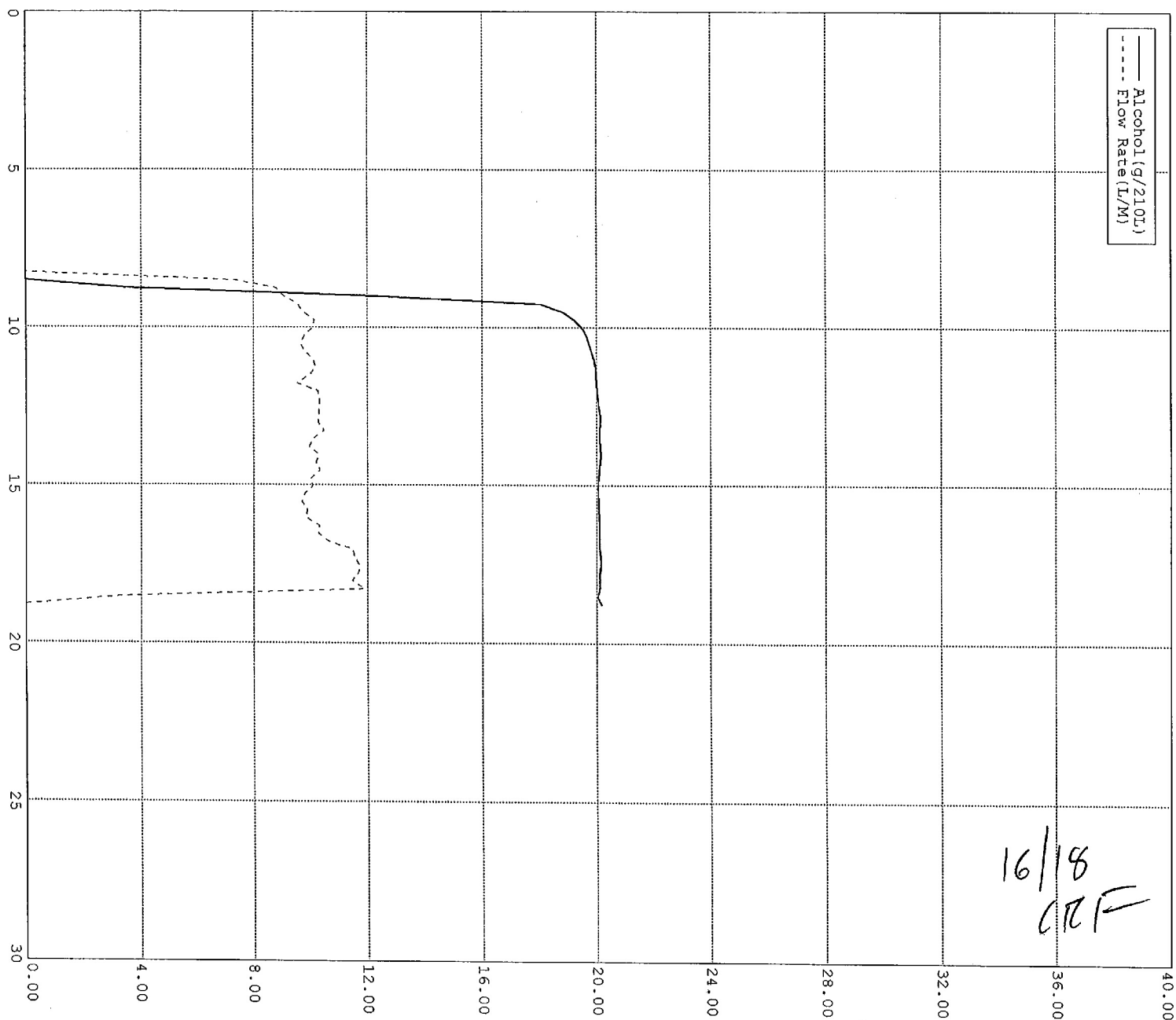
OPERATOR NAME:
 INTERFERENCE ETOH AND IPA
 OPERATOR'S #: XXXX

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

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

DIAGNOSTIC CHECK	PASSED	09:20
BLANK TEST	0.000	09:20
INTERNAL STANDARD	VERIFIED	09:21
EXTERNAL STANDARD	0.078	09:21
BLANK TEST	0.000	09:22
SUBJECT SAMPLE	INTERFERENCE	09:22

CRF

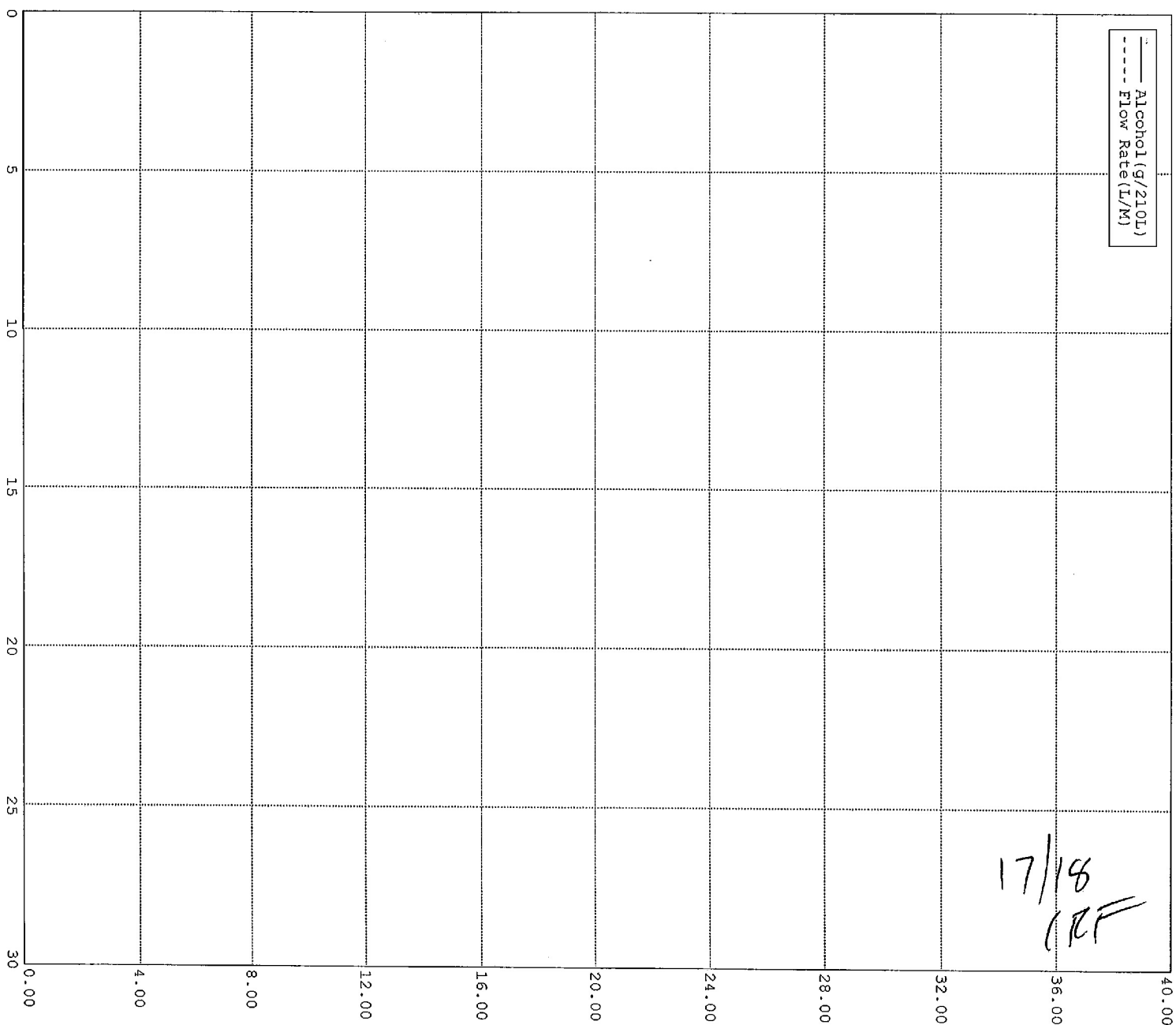


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352
-----Date: 10/13/2011
Time: 15:35:31SUBJECT 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 29.90: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 15:36
INTERNAL STANDARD VERIFIED 15:37
EXTERNAL STANDARD 0.080 15:37
BLANK TEST 0.000 15:38

RFI Detected

Alcohol (g/210L)

Flow Rate(L/M)

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100352

Date: 10/14/2011
 Time: 09:52:23

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 29.39: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:53
BLANK TEST	0.000	09:53
INTERNAL STANDARD	VERIFIED	09:53
EXTERNAL STANDARD	0.078	09:53
BLANK TEST	0.000	09:54
SUBJECT SAMPLE	0.000	09:55
BLANK TEST	0.000	09:55
EXTERNAL STANDARD	0.079	09:56
BLANK TEST	0.000	09:57

CFE

