

	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 FormInstrument # 100346

1. Diagnostic Test (attached)

Analyst CRF

2. Voltage Checks

Date 10/11/11a. 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 02811020A1 Exp 2/1/13ii. 0.040g/210L Mnf ILMO Lot 15210040A2 Exp 7/1/12iii. 0.080g/210L Mnf ILMO Lot 02511080A2 Exp 2/1/13iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 3/1/13v. 0.200g/210L Mnf ILMO Lot 07611200A2 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: 100346

Date: 10/11/2011
Time: 13:58:13

VERSIONS

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

TEMPERATURES

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

PUMP INFO

Flow Rate = 5.154 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: 100346

Date: 10/11/2011

Time: 2:05 PM

Temperatures (°C)

Sample Cell: 49.5°C

Breath Tube: 47.8°C

Current Barometer 29.5 in

Volume (Ltr) 1.49

Settings

Lamp: 1.64 V

Bias: 80 V

Cooler: 1.63 V

Chopper: 528 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.010 V

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CRF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100346

Date: 09/29/2011

Time: 12:03:26

Ca = 0.1010

CAL = 0.996244 0.800 <= CAL < 1.200

b1 = 0.0012 0.0000 <= b1 < 0.0040

b2 = 0.0057 0.0010 <= b2 < 0.0100

b3 = 0.0020 0.0000 <= b3 < 0.0040

Xq = 0.1035 0.0500 <= Xq < 0.2000

a21 = 1.188211 1.050 <= a21 < 1.300

a31 = 0.410666 0.300 <= a31 < 0.800

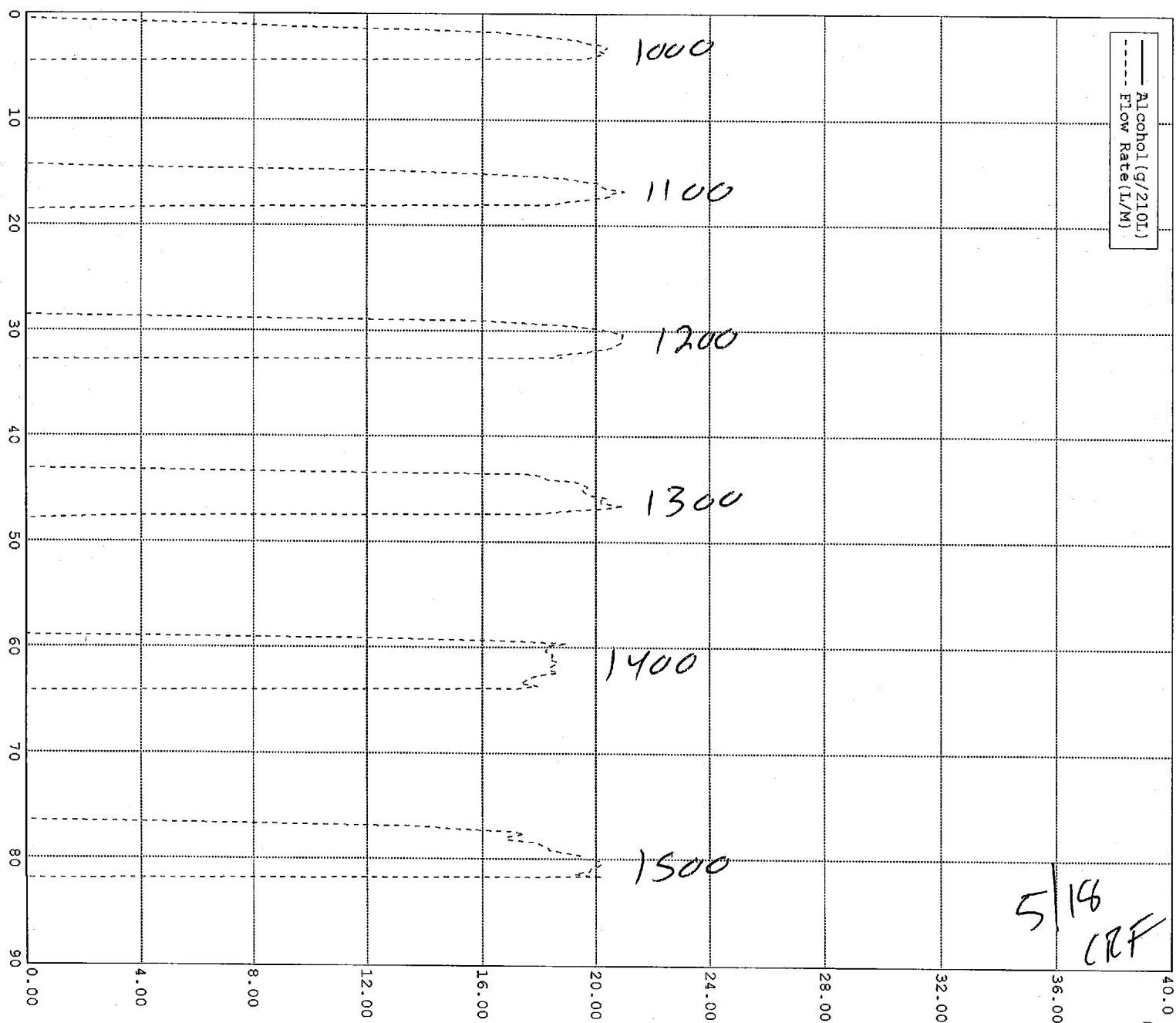
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CRF

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100346Date: 10/11/2011
Time: 14:13:59SUBJECT 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 29.51: 0.078
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:15
BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:15
EXTERNAL STANDARD	0.081	14:15
BLANK TEST	0.000	14:16
SUBJECT SAMPLE	0.000	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.081	14:18
BLANK TEST	0.000	14:19

CRF



LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmtc: 100346

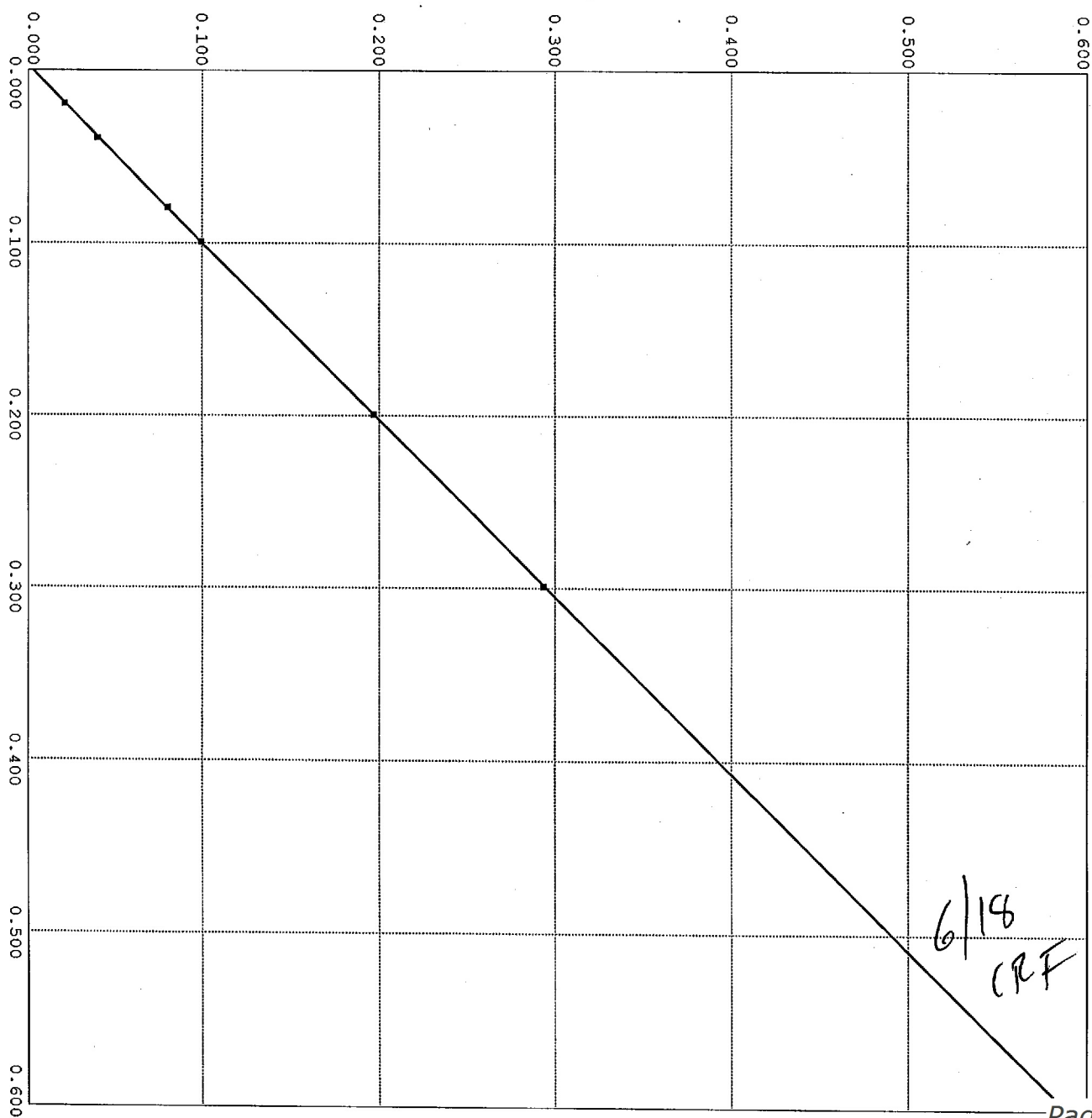
Date: 10/12/2011
Time: 08:59:16

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0212	0.0004
0.039	0.0404	0.0005
0.079	0.0810	0.0000
0.099	0.1004	0.0005
0.199	0.1978	0.0008
0.298	0.2942	0.0004

SLOPE = 0.978469
 R^2 = 0.999985

CRF



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100346

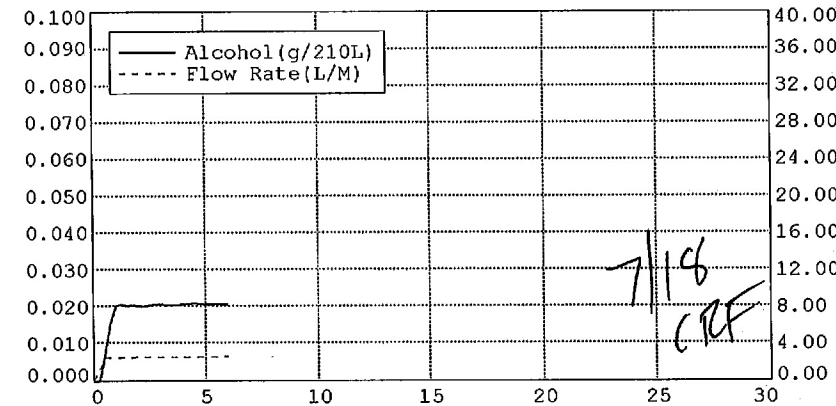
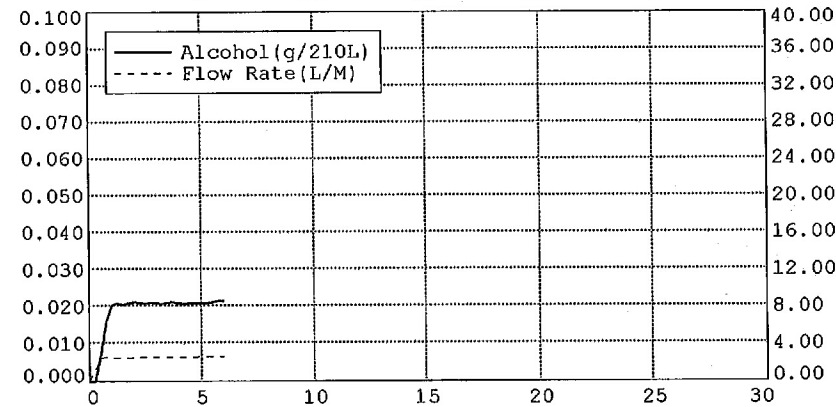
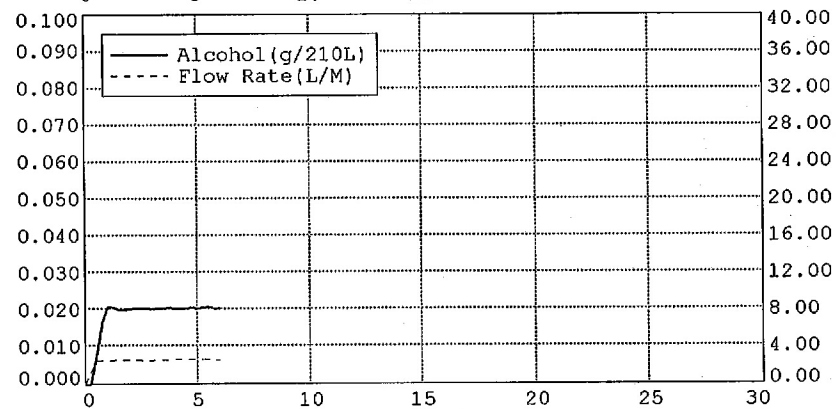
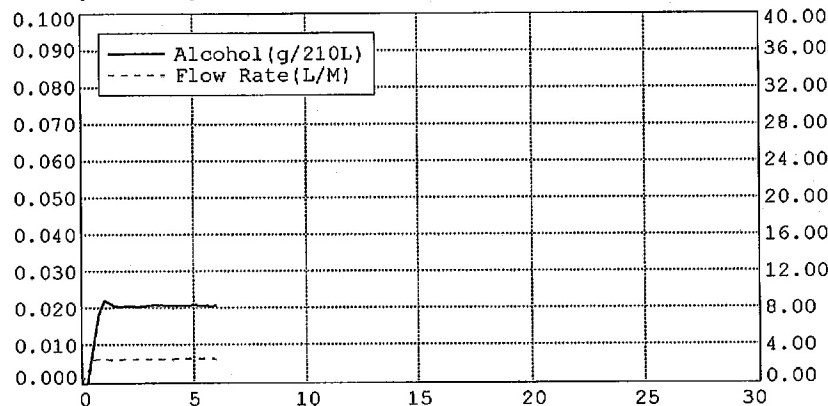
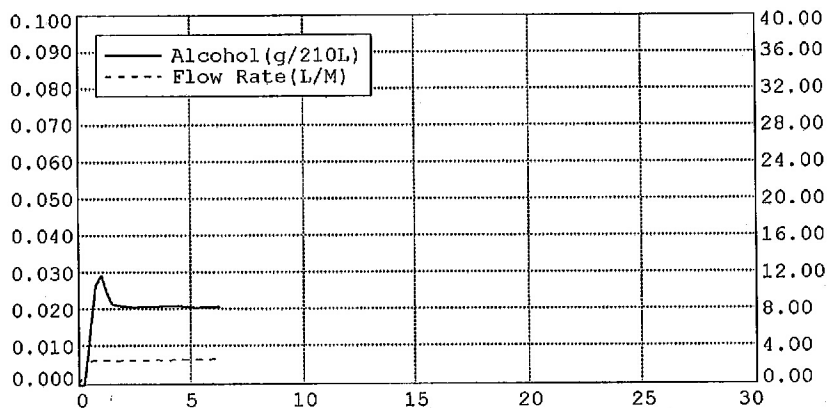
Date: 10/12/2011
Time: 08:59:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.78: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	09:00
INTERNAL STANDARD	VERIFIED	09:00
EXTERNAL STANDARD	0.021	09:00
BLANK TEST	0.000	09:01
EXTERNAL STANDARD	0.021	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.021	09:03
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.022	09:04
BLANK TEST	0.000	09:05
EXTERNAL STANDARD	0.021	09:05
BLANK TEST	0.000	09:06

Average = 0.0212
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100346

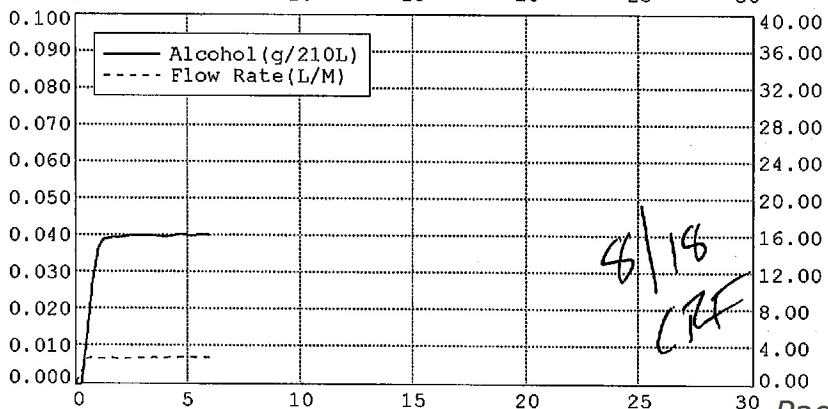
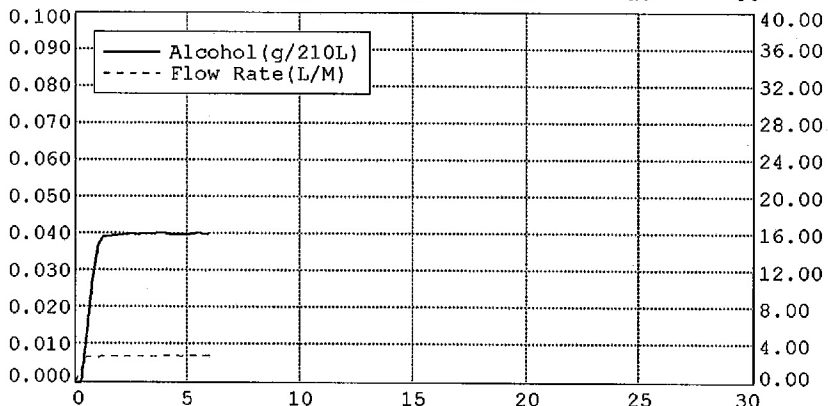
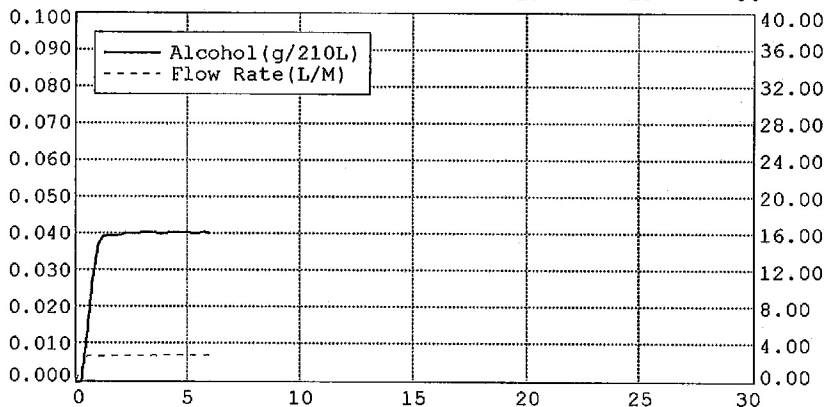
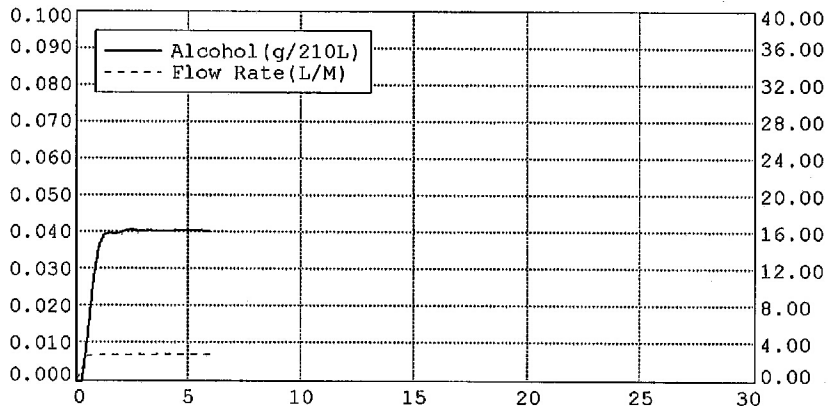
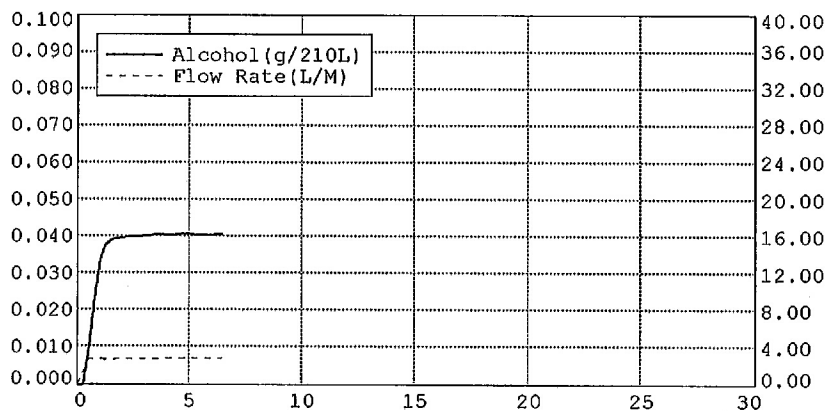
Date: 10/12/2011
Time: 09:07:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.77: 0.039
LOT #: 15210040A2
EXPIRATION: 07/01/2012

BLANK TEST	0.000	09:08
INTERNAL STANDARD	VERIFIED	09:08
EXTERNAL STANDARD	0.041	09:08
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.041	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.040	09:11
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.040	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.040	09:13
BLANK TEST	0.000	09:14

Average = 0.0404
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100346

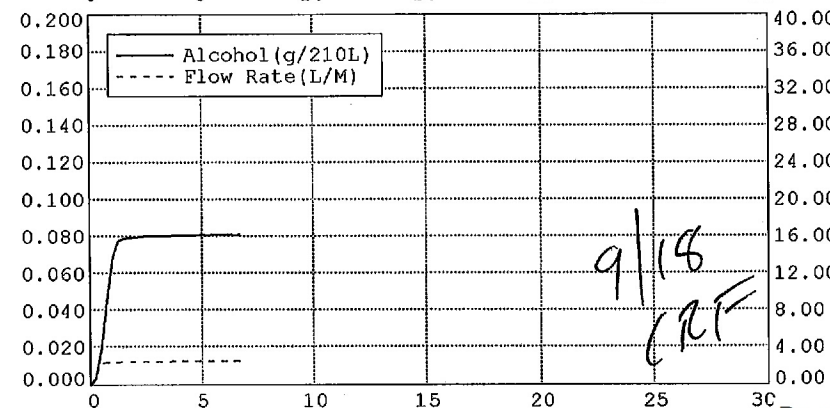
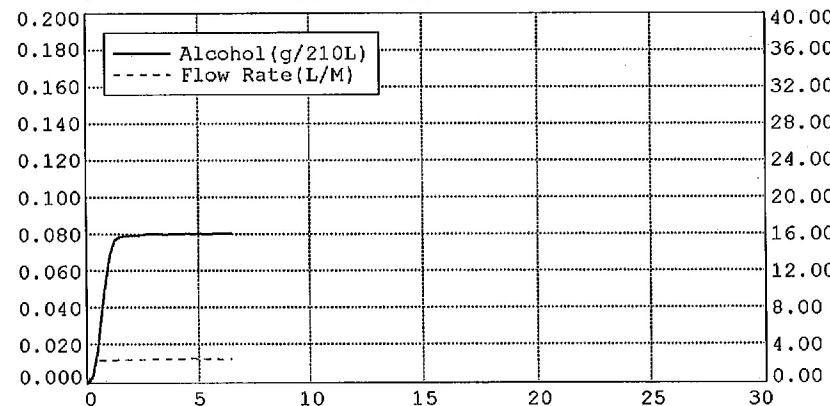
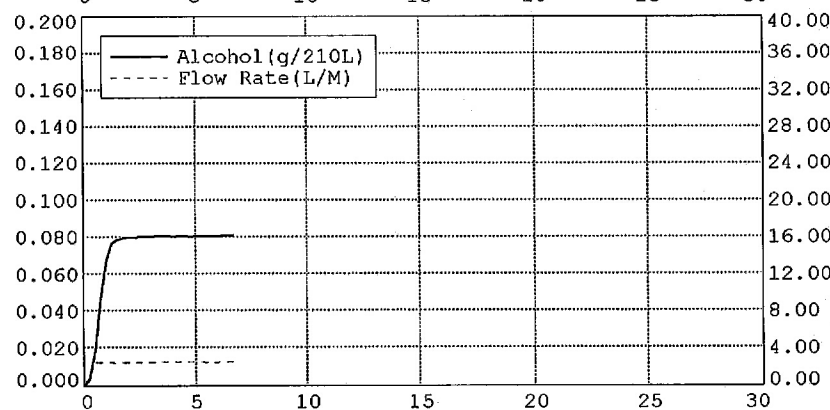
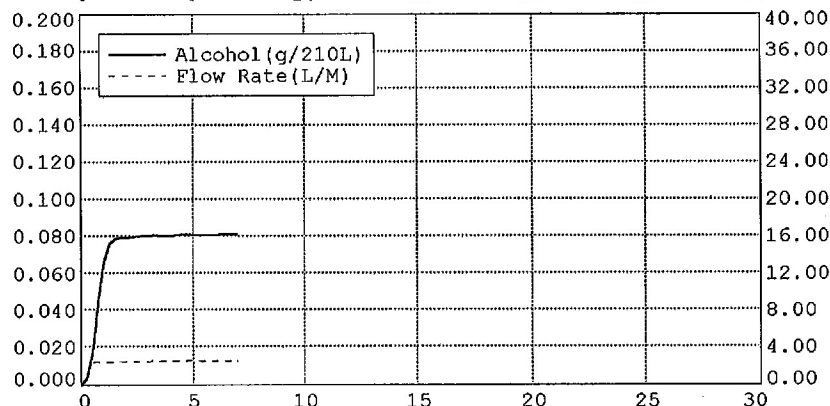
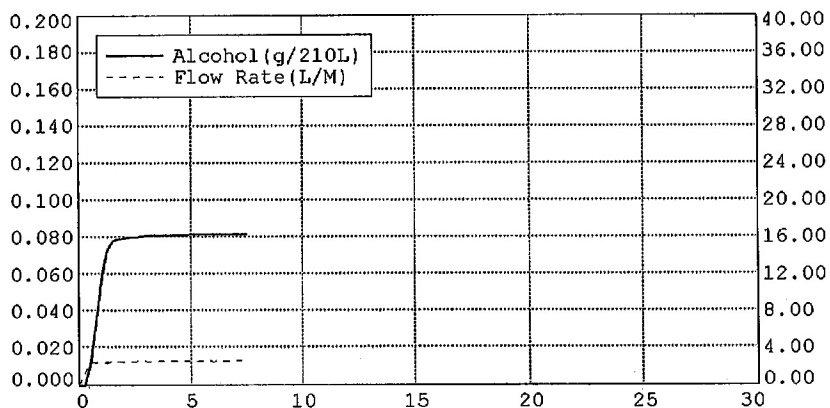
Date: 10/12/2011
Time: 09:15:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.78: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	09:16
INTERNAL STANDARD	VERIFIED	09:16
EXTERNAL STANDARD	0.081	09:16
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.081	09:17
BLANK TEST	0.000	09:18
EXTERNAL STANDARD	0.081	09:19
BLANK TEST	0.000	09:19
EXTERNAL STANDARD	0.081	09:20
BLANK TEST	0.000	09:21
EXTERNAL STANDARD	0.081	09:21
BLANK TEST	0.000	09:22

Average = 0.0810
Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100346

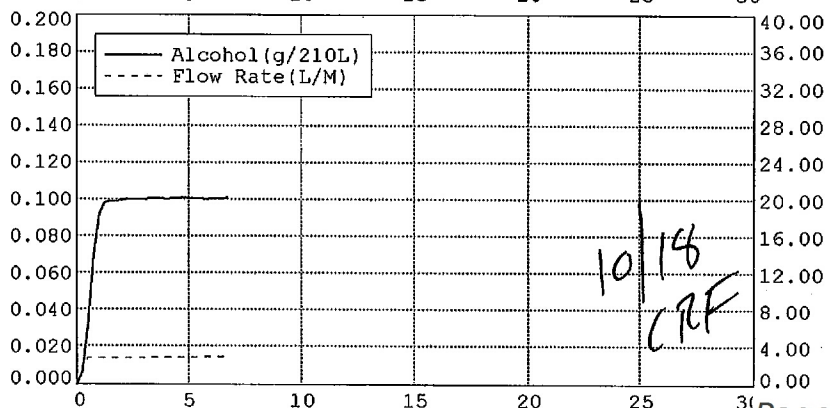
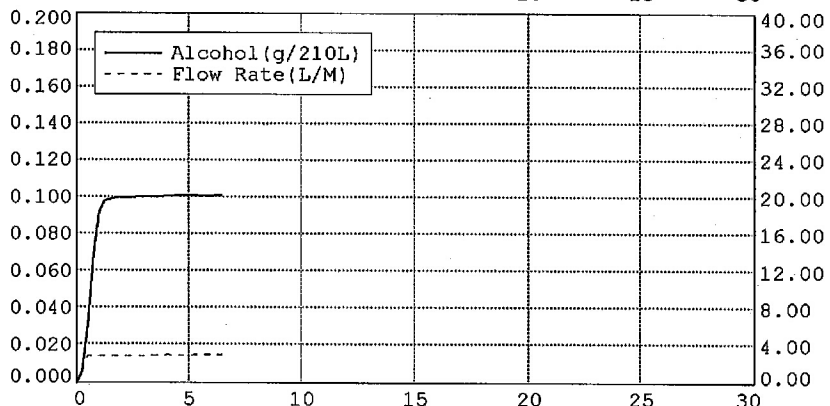
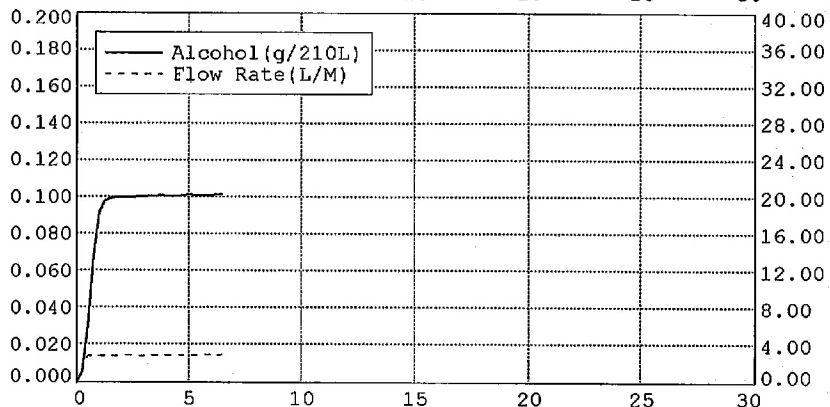
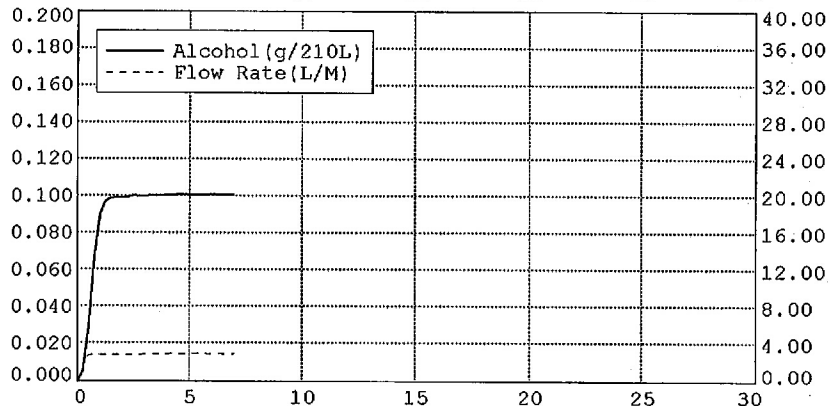
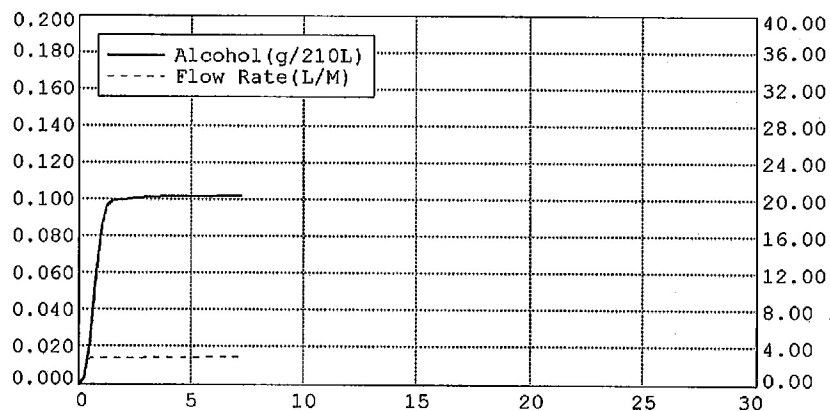
Date: 10/12/2011
Time: 09:22:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.77: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:24
INTERNAL STANDARD	VERIFIED	09:24
EXTERNAL STANDARD	0.101	09:24
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.100	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.101	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.100	09:27
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.100	09:28
BLANK TEST	0.000	09:29

Average = 0.1004
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100346

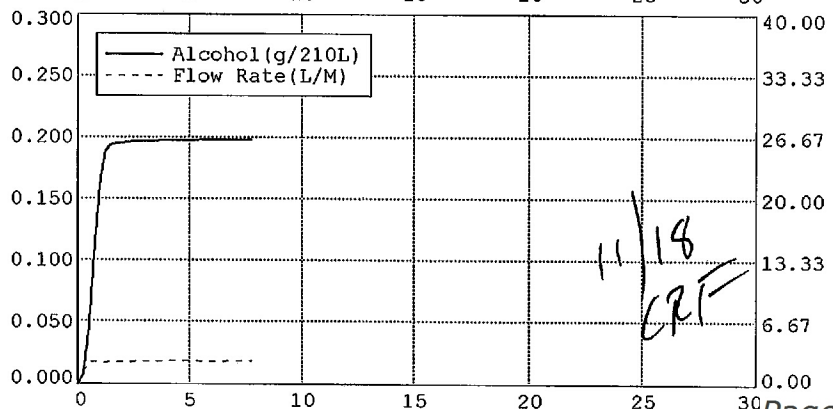
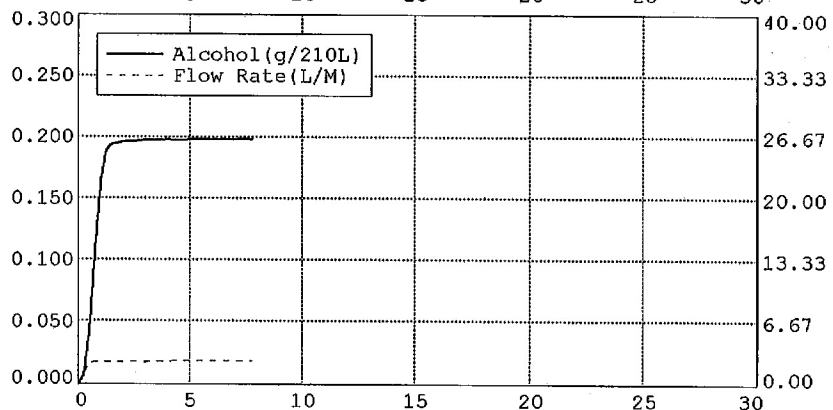
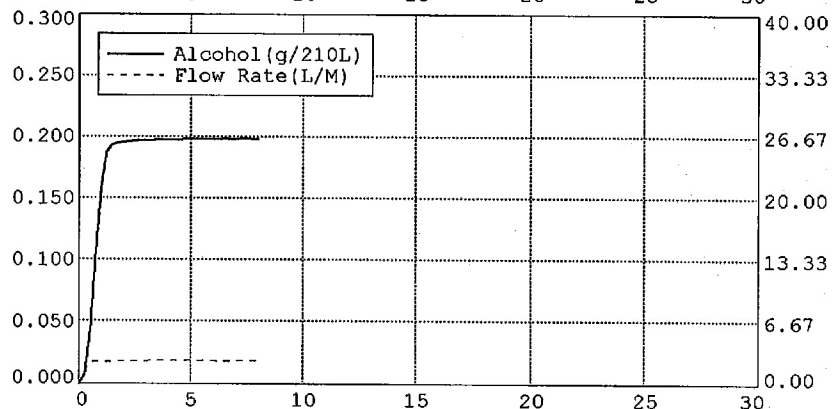
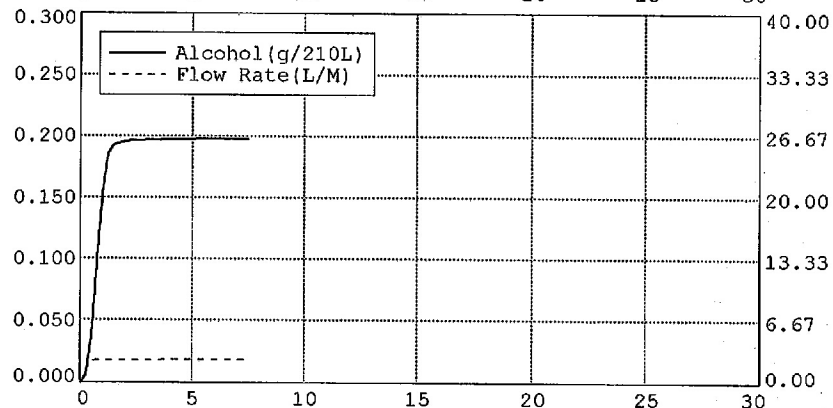
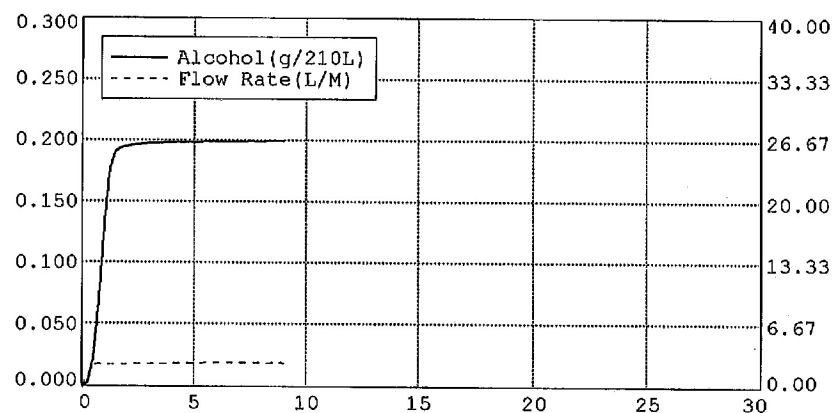
Date: 10/12/2011
Time: 09:30:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.78: 0.199
LOT #: 07611200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:31
INTERNAL STANDARD	VERIFIED	09:32
EXTERNAL STANDARD	0.199	09:32
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.197	09:33
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.198	09:34
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.198	09:35
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.197	09:36
BLANK TEST	0.000	09:37

Average = 0.1978
Std Dev = 0.0008



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100346

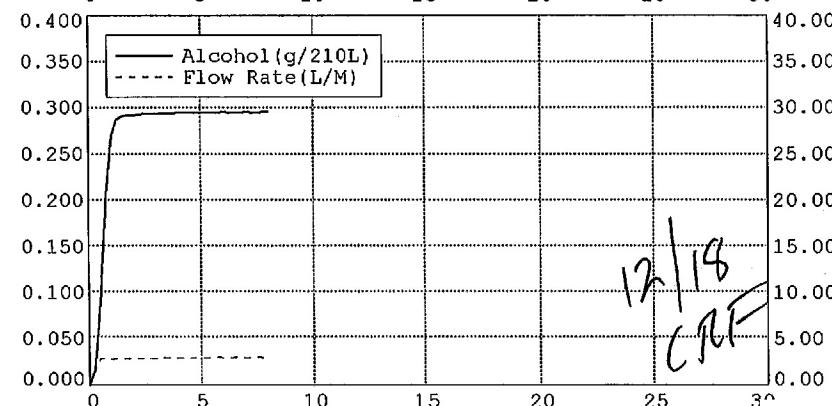
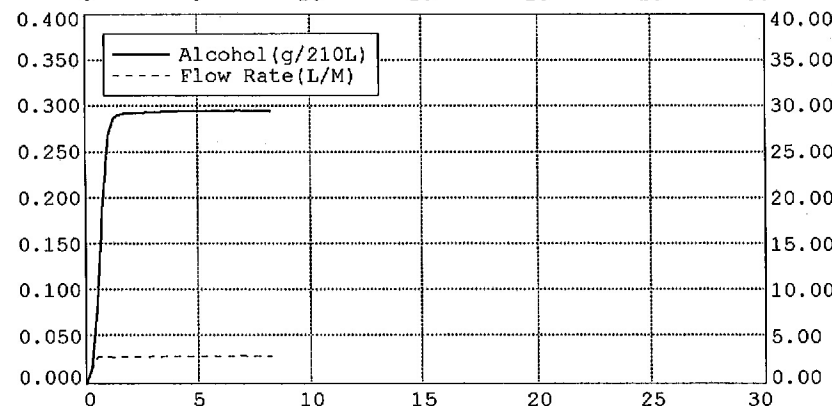
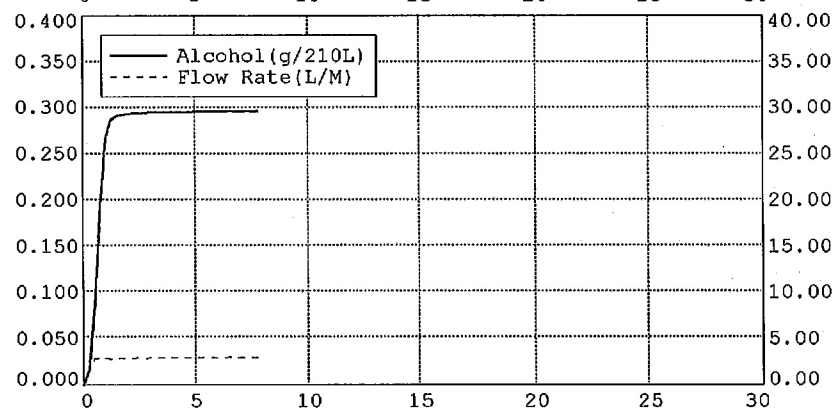
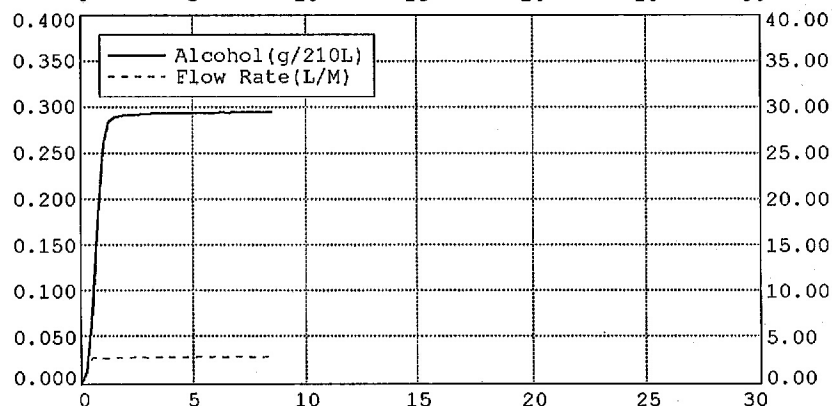
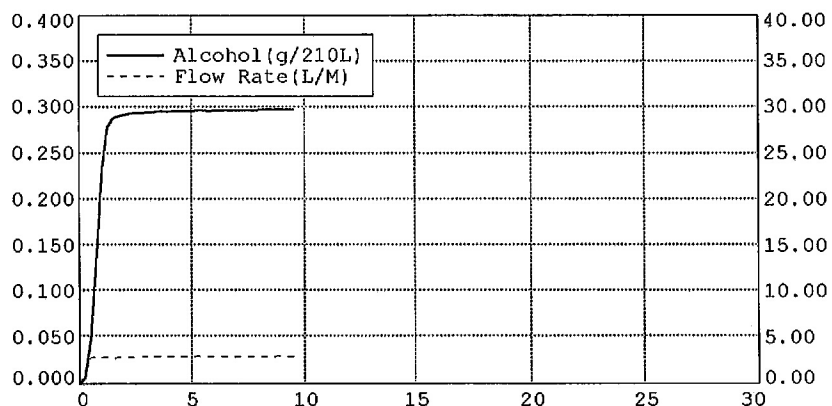
Date: 10/12/2011
Time: 09:45:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.79: 0.298
LOT #: 07611300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:46
INTERNAL STANDARD	VERIFIED	09:46
EXTERNAL STANDARD	0.295	09:46
BLANK TEST	0.000	09:47
EXTERNAL STANDARD	0.294	09:47
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.294	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.294	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.294	09:51
BLANK TEST	0.000	09:52

Average = 0.2942
Std Dev = 0.0004



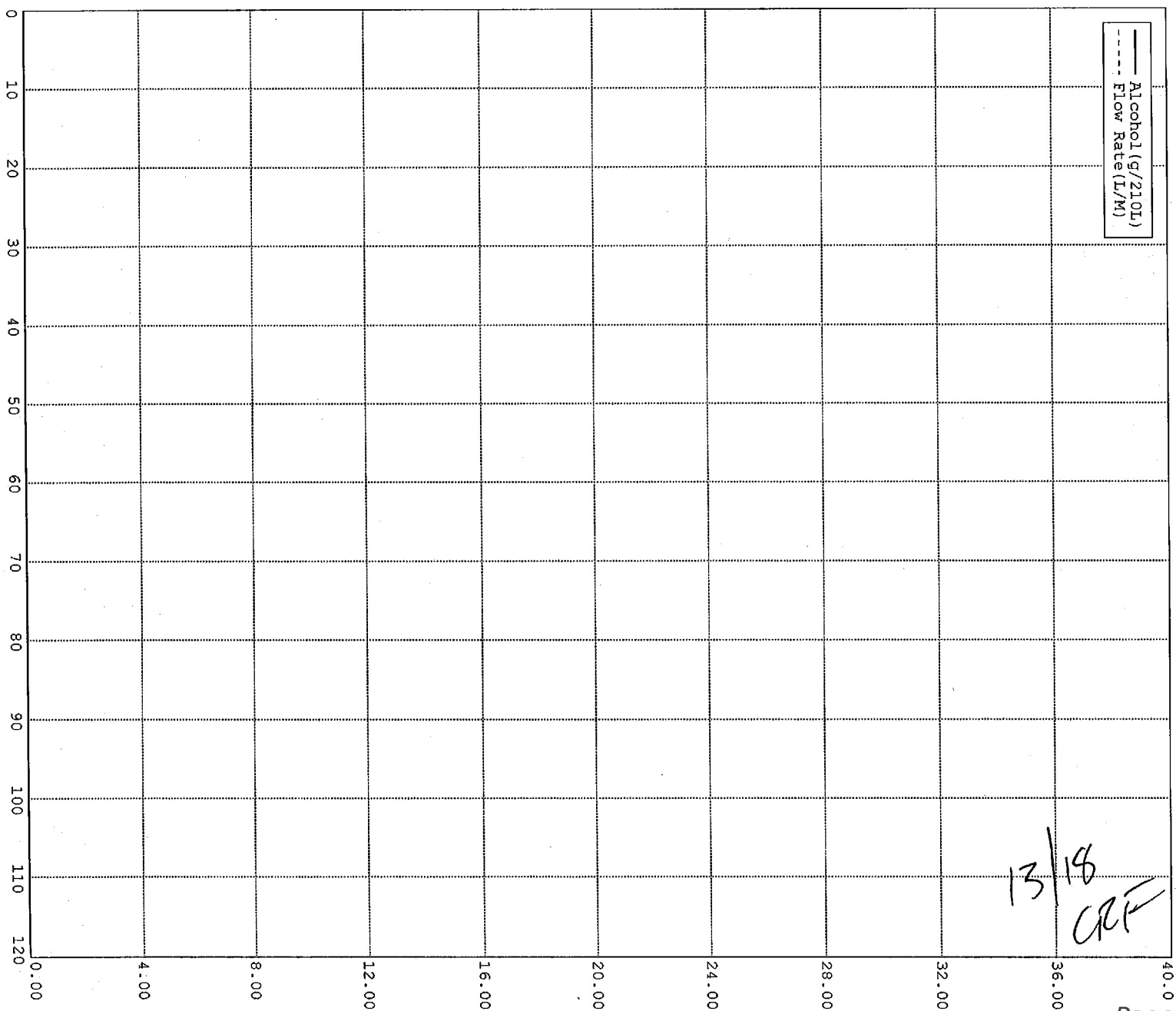
SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100346Date: 10/12/2011
Time: 09:58:27SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.78: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

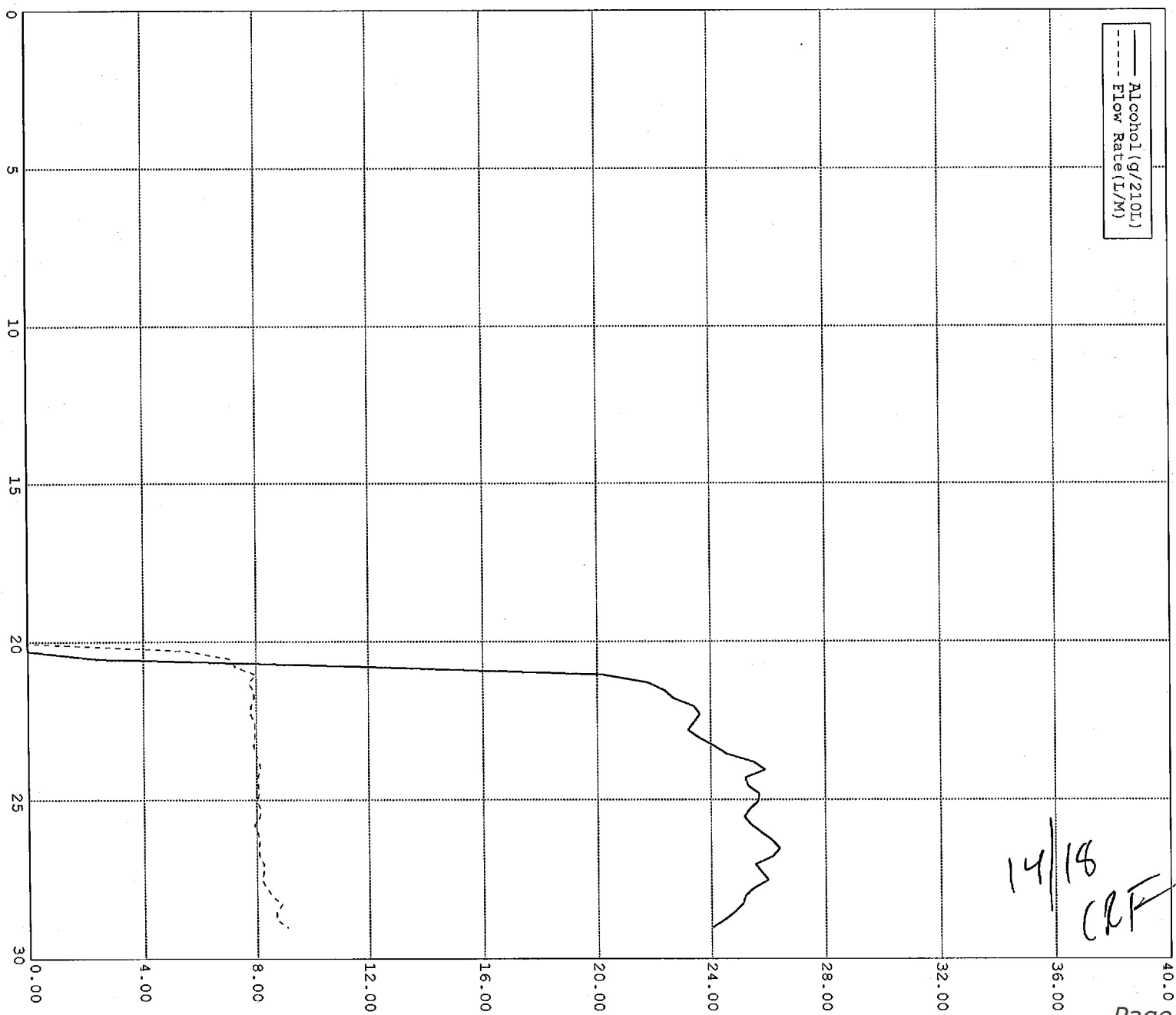
DIAGNOSTIC CHECK	PASSED	09:59
BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	09:59
EXTERNAL STANDARD	0.083	09:59
BLANK TEST	0.000	10:00
SUBJECT SAMPLE	INCOMPLETE	10:02

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

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100346Date: 10/12/2011
Time: 10:06:10SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INVALID KNOWN MOUTH ETOH
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 10:07
INTERNAL STANDARD VERIFIED 10:08
EXTERNAL STANDARD 0.082 10:08
BLANK TEST 0.000 10:09
SUBJECT SAMPLE Invalid 10:09

CRF



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100346

Date: 10/12/2011
Time: 10:15:59

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

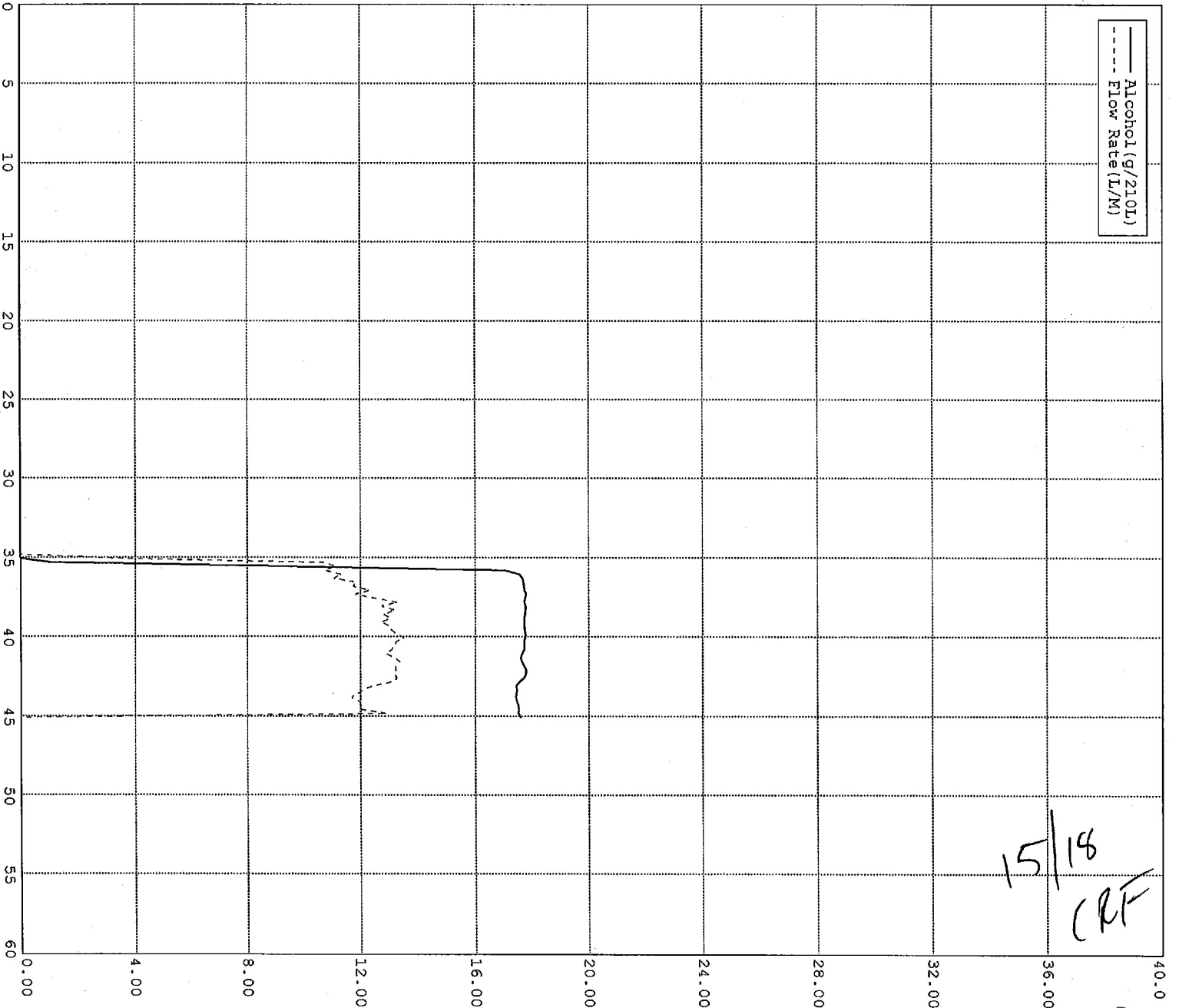
OPERATOR NAME:
INTERFERENCE ETOH AND ACETONE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:17
BLANK TEST	0.000	10:17
INTERNAL STANDARD	VERIFIED	10:17
EXTERNAL STANDARD	0.082	10:18
BLANK TEST	0.000	10:19
SUBJECT SAMPLE	INTERFERENCE	10:19

CRF



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100346

Date: 10/12/2011

Time: 10:24:32

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 29.79: 0.079

LOT #: 02511080A2

EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

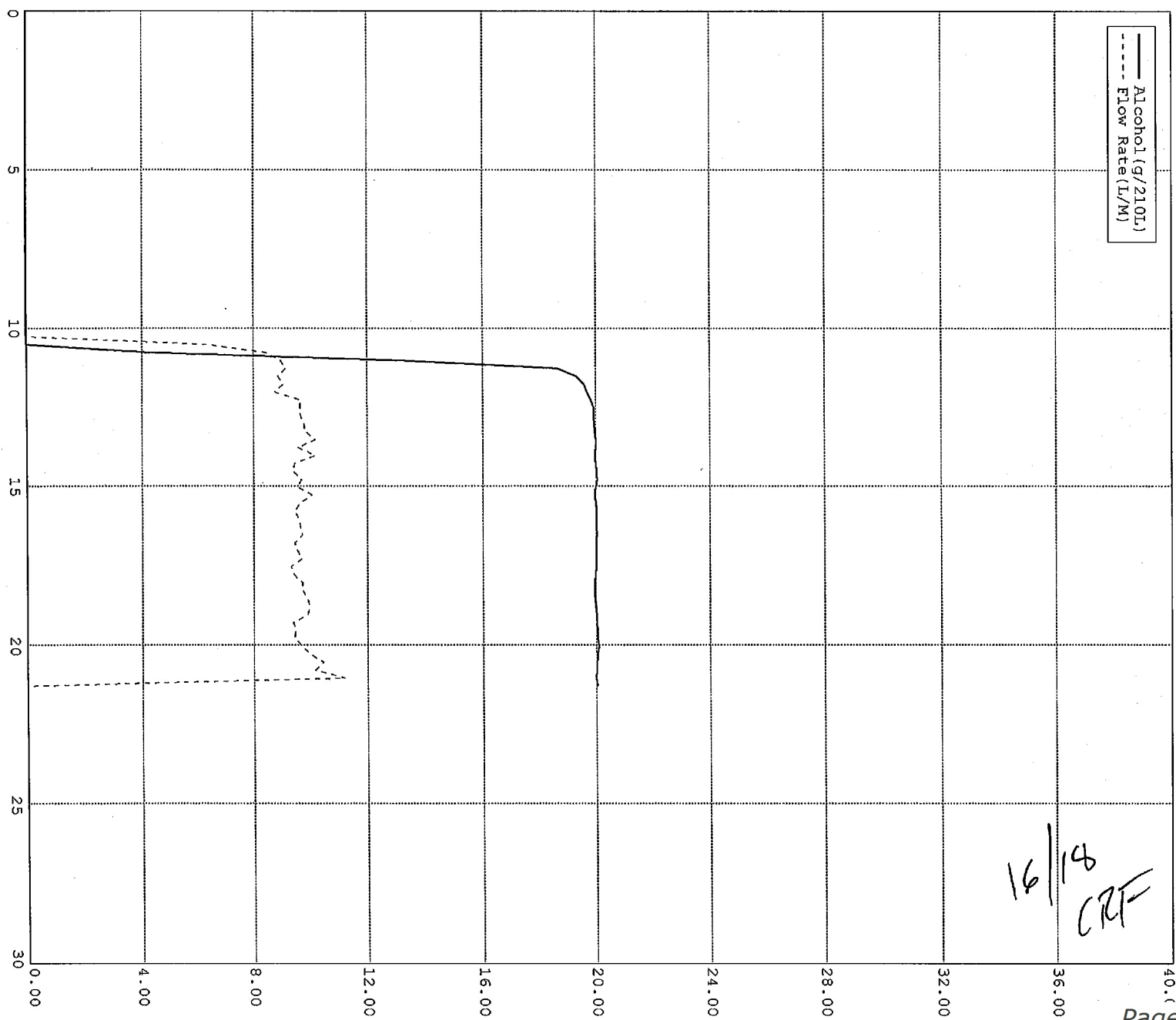
EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

	PASSED	
BLANK TEST	0.000	10:26
INTERNAL STANDARD	VERIFIED	10:26
EXTERNAL STANDARD	0.082	10:26
BLANK TEST	0.000	10:27
SUBJECT SAMPLE	INTERFERENCE	10:28

CRF



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100346

Date: 10/12/2011
Time: 10:34:06

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

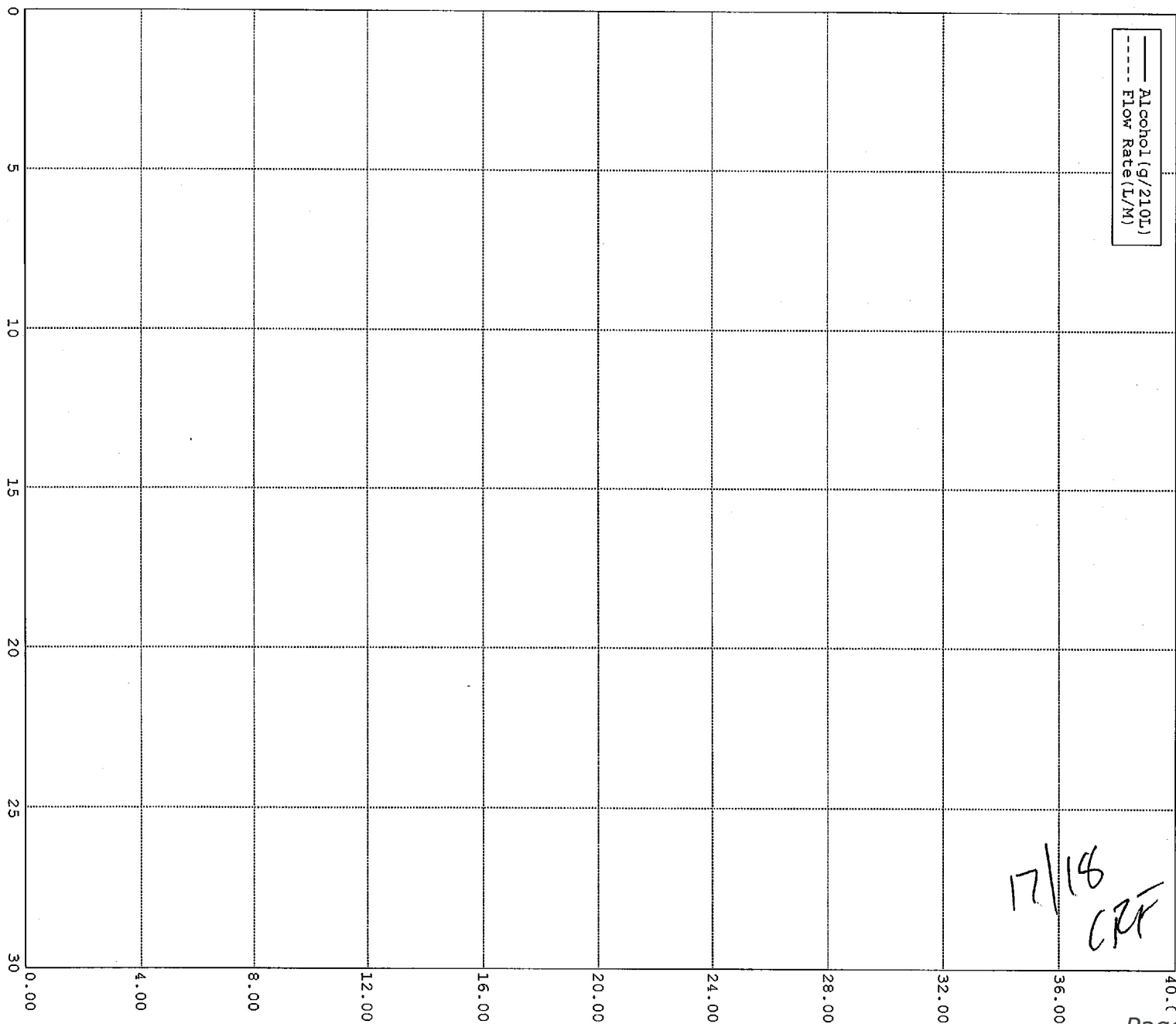
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.79: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 10:35
INTERNAL STANDARD	0.000 10:35
EXTERNAL STANDARD	VERIFIED 10:35
BLANK TEST	0.082 10:35
	0.000 10:36

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100346

Date: 10/12/2011
Time: 10:54:01

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 29.80: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:55
BLANK TEST	0.000	10:55
INTERNAL STANDARD	VERIFIED	10:55
EXTERNAL STANDARD	0.081	10:55
BLANK TEST	0.000	10:56
SUBJECT SAMPLE	0.000	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.082	10:58
BLANK TEST	0.000	10:59

CRF

