

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 01/27/2012

Version: DMCEF2012 R0

Effective: 01/27/2012

Status: Active

Instrument S/N 100369Analyst CRFStart Date 2/28/12

Ran USB Fixer, Updated Software to 2.00

Diagnostic Test (attached) ☒

1. Voltage Checks

a. Adjust voltages, if needed ☒

i. Lamp (2.6V Maximum)

ii. Bias (80V)

iii. Cooler (2.0V Maximum)

iv. Chopper Frequency

v. Detector Voltage (-0.100V to 0.100V)

b. Set RFI ☒c. Adjust barometer reading to match NIST traceable barometer ☒d. Adjust volume setting, if needed (1.5L +/- 0.1L) ☒e. Print Technician Screen (attached) CRF2. Print Calibration Factors (attached) CRF CRF3. Volume Test - Minimum 1.6 L mL (1.3L to 1.7L) ☒

4. 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 02511040A3 Exp 2/1/13iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/131. Simulator S/N SD1176 Date Calibrated 8/17/11vi. 0.300g/210L Mnf 11110 CRF Lot Guth Exp 7/13/131. Simulator S/N SD1202 Date Calibrated 8/17/11

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.040 Exp 10/11/131. Simulator S/N SD1199 Date Calibrated 1/11/12ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/121. Simulator S/N DR6267 Date Calibrated 1/10/12d. RFI ☒6. Verify stylus is calibrated ☒10. Verification of Calibration ☒7. Verify card reader is functional ☒11. Non-Drinking Subject Test (attached) ☒8. Reset Options ☒12. Upload ☒9. Clear Memory ☒13. Update agency information and polling status in DM Host Calling Program W/AEnd Date 3/1/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 02/28/2012
Time: 13:02:03

VERSIONS

DMT: 2.00
PIC: 3.03
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 47.4°C	PASSED

PUMP INFO

Flow Rate = 5.109 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	PASSED
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CNF

Technician Screen

DATAMASTER dmt: 100369

Date: 02/28/2012
Time: 1:21 PM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 47.9°C

Current Barometer 29.5 in
Volume (Ltr) 1.51

Settings

Lamp: 1.61 V
Bias: 78 V
Cooler: 1.61 V
Chopper: 533 Hz

Voltages (V)

Flow: 1.05 V
Detector: -0.050 V

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CN

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 09/27/2011
Time: 13:10:06

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 11050
EXPIRATION: 04/06/2013

Ca = 0.1000
CAL = 1.012033 0.800 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0051 0.0010 <= b2 < 0.0100
b3 = 0.0009 0.0000 <= b3 < 0.0040
Xq = 0.0821 0.0500 <= Xq < 0.2000
a21 = 1.188182 1.050 <= a21 < 1.300
a31 = 0.477994 0.300 <= a31 < 0.800

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COF

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100369Date: 02/28/2012
Time: 14:44:45SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

DEPT/AGENCY:

XXXX

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

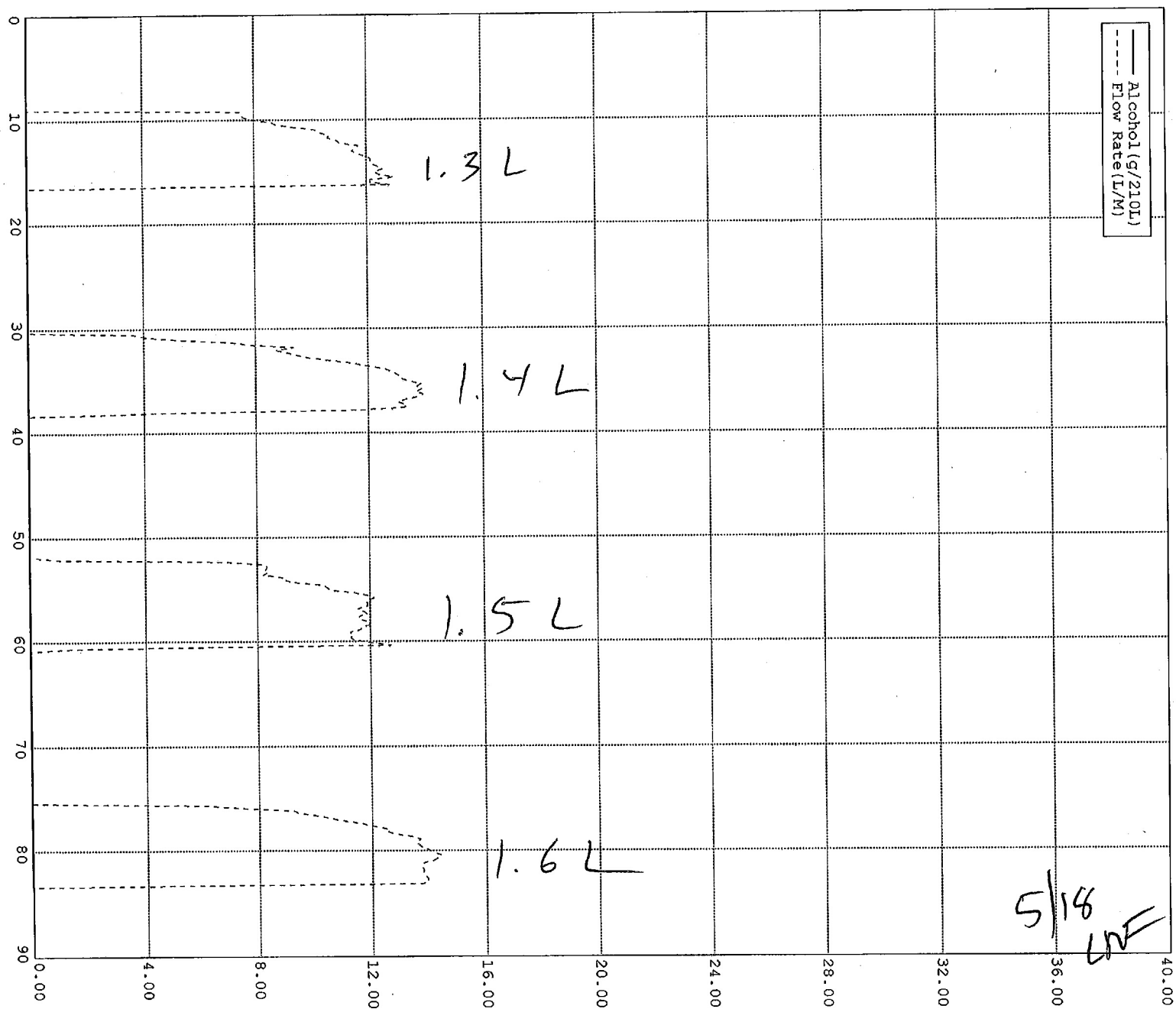
NOMINAL: 0.080

TARGET AT 29.45: 0.078

LOT #: 02511080A3

EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:45
BLANK TEST	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:46
EXTERNAL STANDARD	0.077	14:46
BLANK TEST	0.000	14:47
SUBJECT SAMPLE	0.000	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.077	14:49
BLANK TEST	0.000	14:50



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dnt: 100369

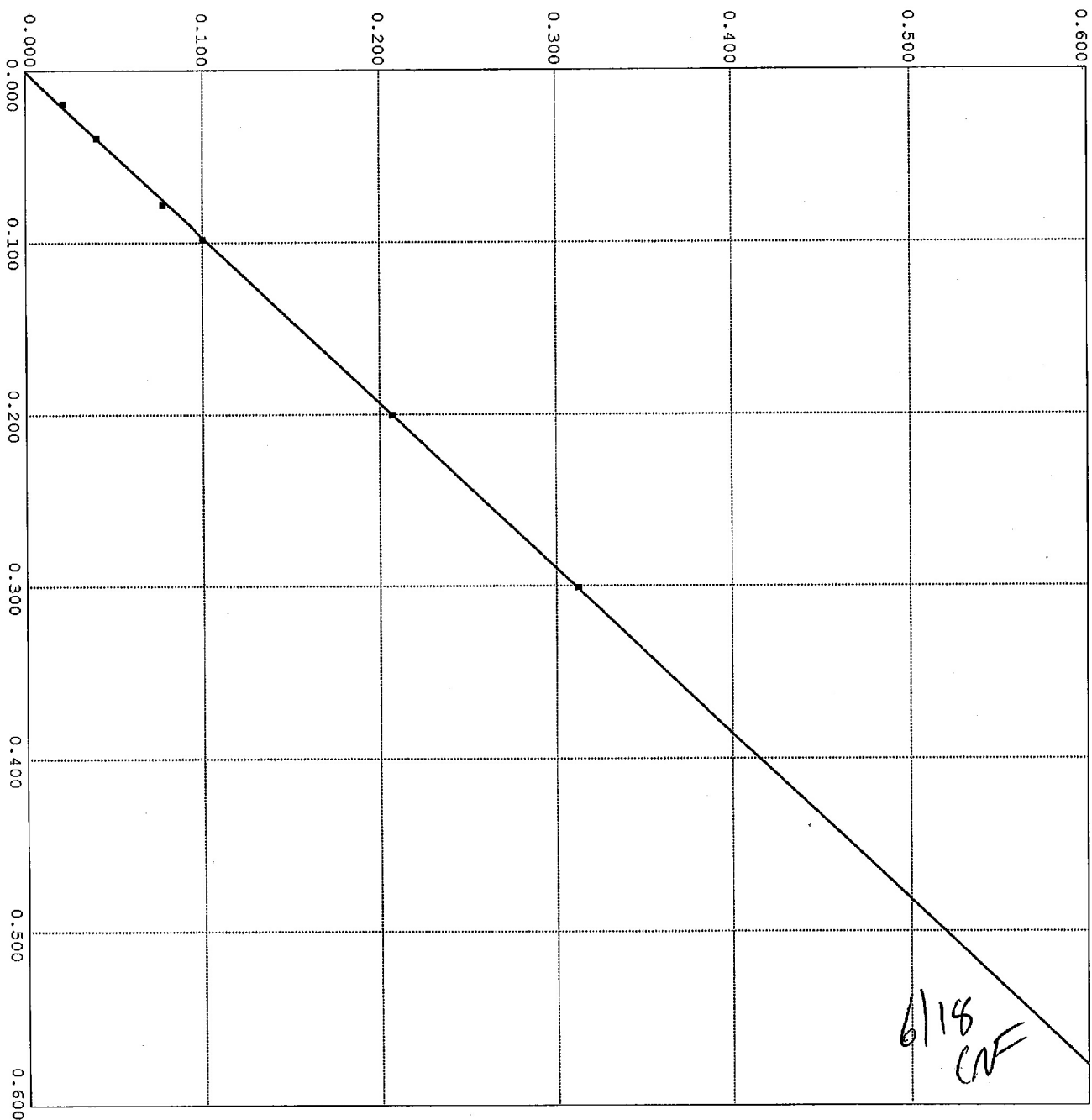
Date: 02/28/2012
 Time: 14:54:45

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0220	0.0002
0.039	0.0408	0.0003
0.078	0.0777	0.0003
0.098	0.1010	0.0002
0.200	0.2079	0.0003
0.300	0.3129	0.0004

SLOPE = 1.041131
 R^2 = 0.999712

CCF



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100369

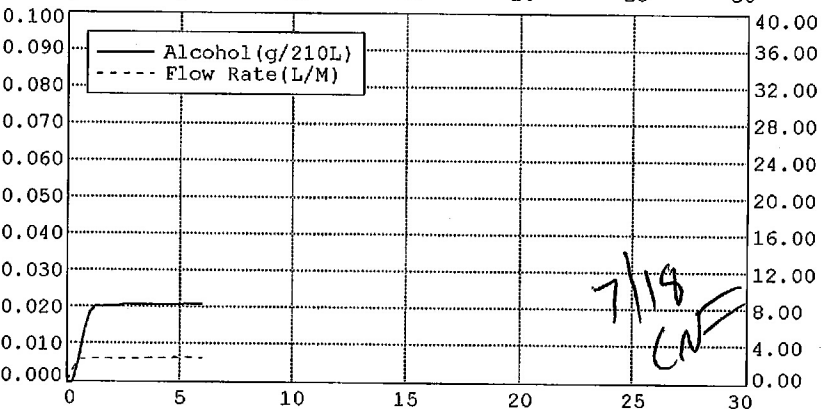
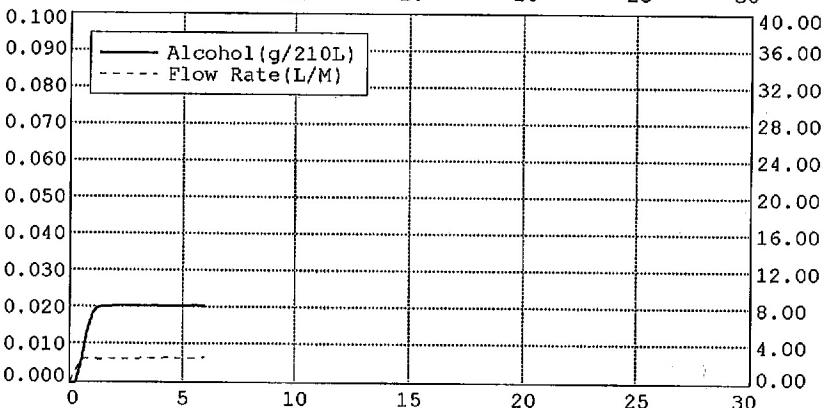
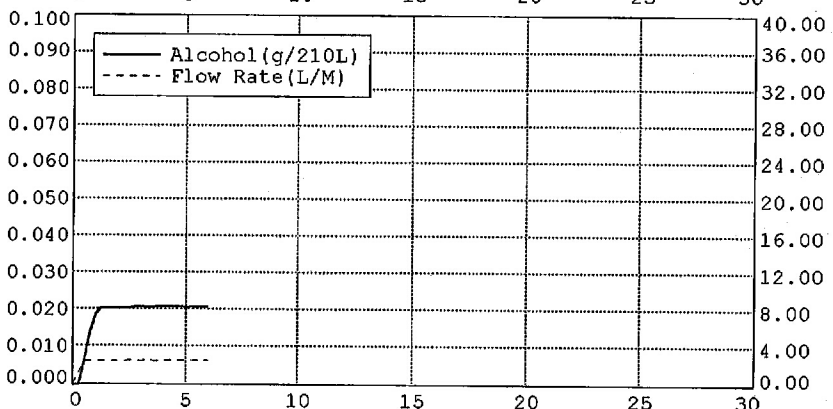
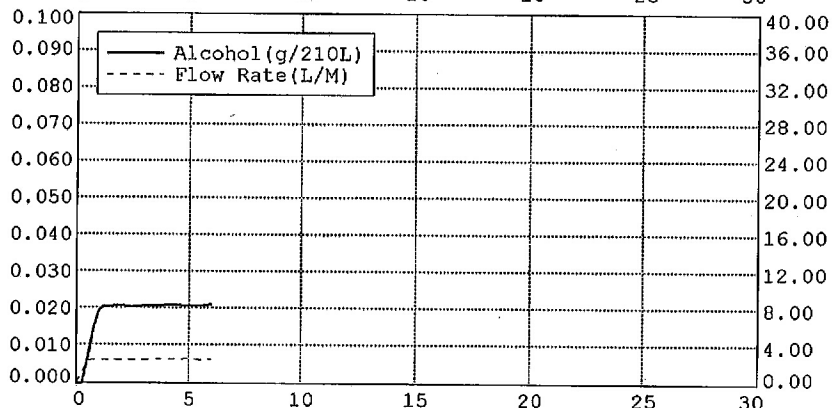
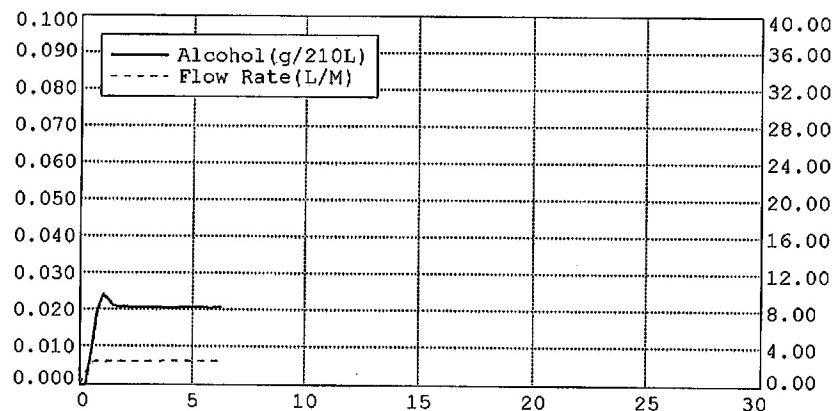
Date: 02/28/2012
Time: 14:54:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.46: 0.019
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:56
EXTERNAL STANDARD	0.021	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.022	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.022	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.021	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.022	15:00
BLANK TEST	0.000	15:01

Average = 0.0220
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100369

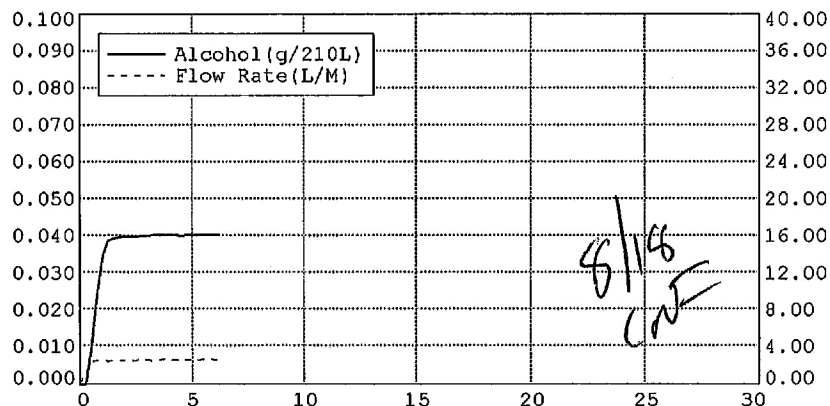
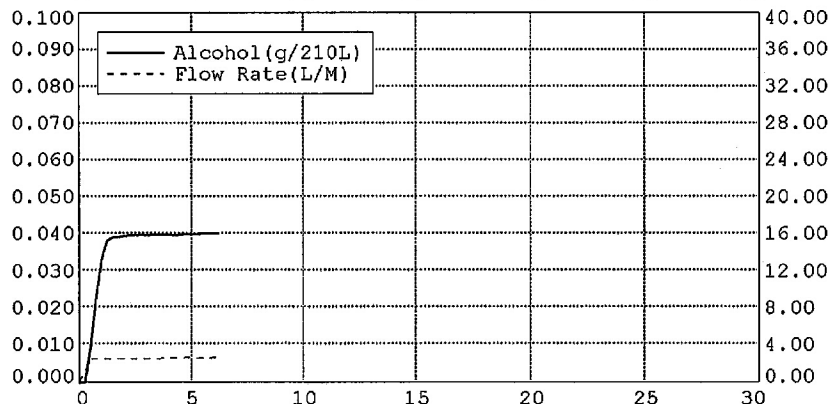
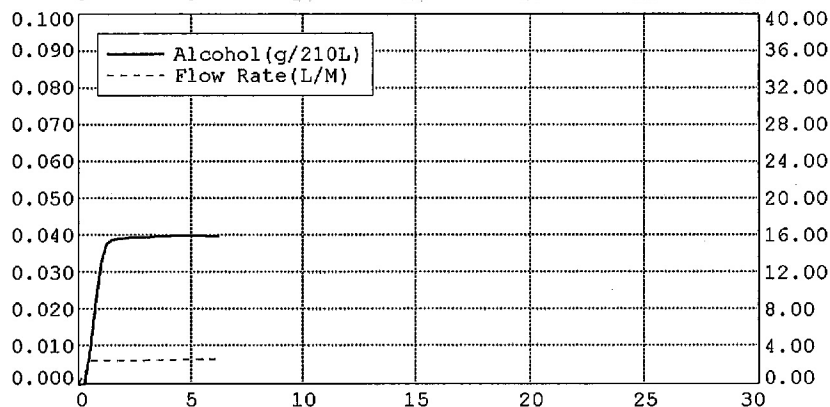
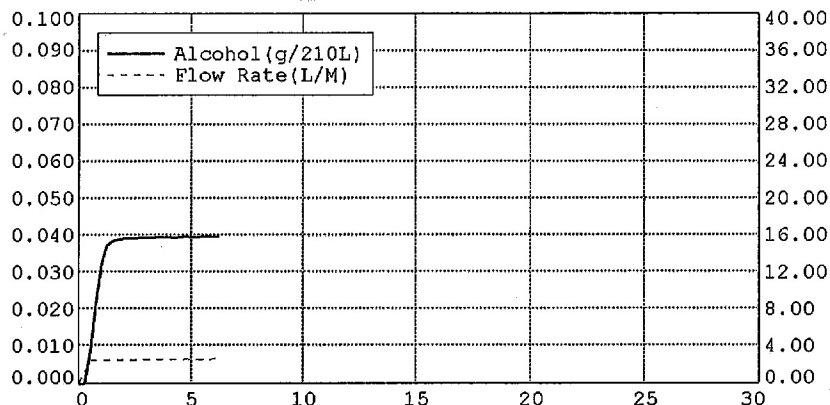
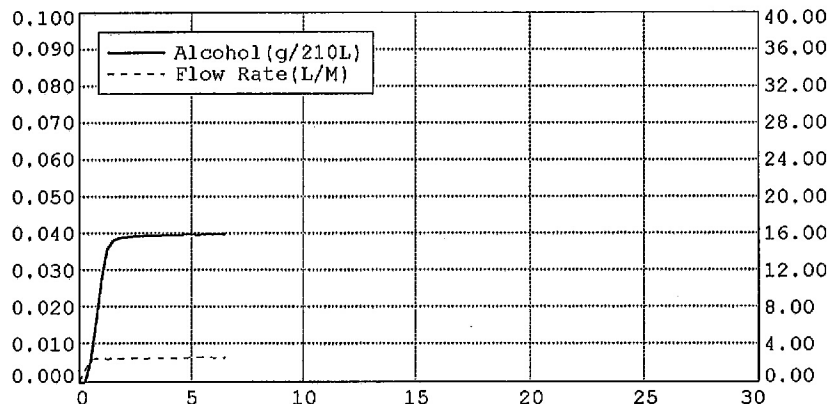
Date: 02/28/2012
Time: 15:05:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.46: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	15:06
INTERNAL STANDARD	VERIFIED	15:06
EXTERNAL STANDARD	0.040	15:06
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.040	15:07
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.040	15:09
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.040	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.041	15:11
BLANK TEST	0.000	15:12

Average = 0.0408
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100369

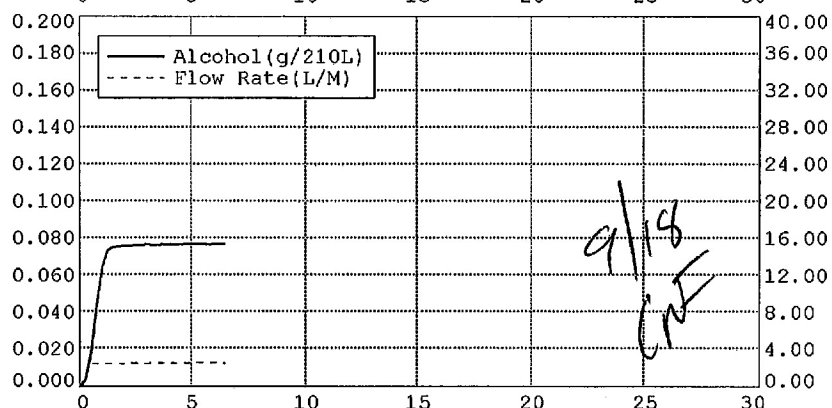
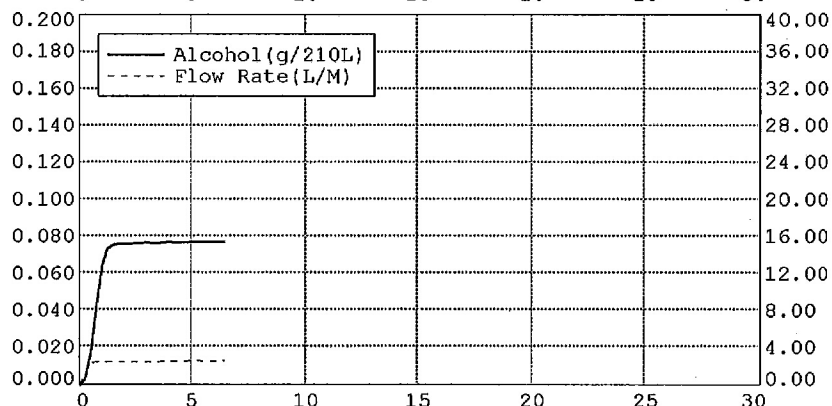
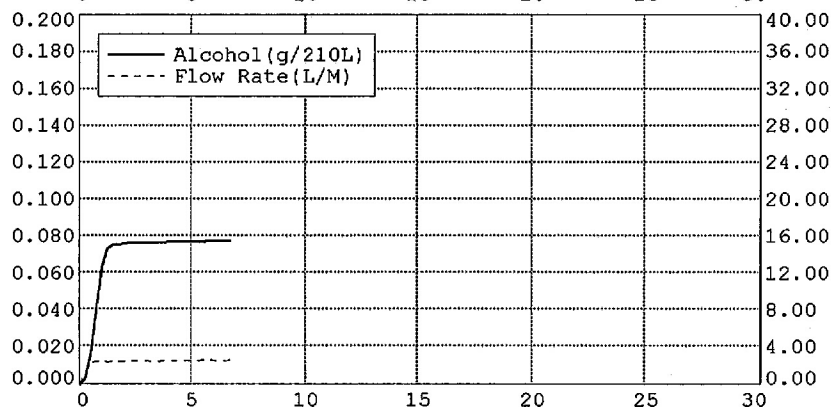
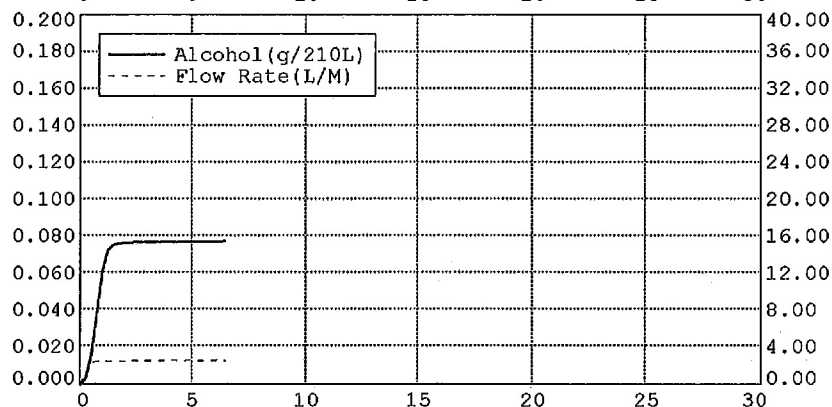
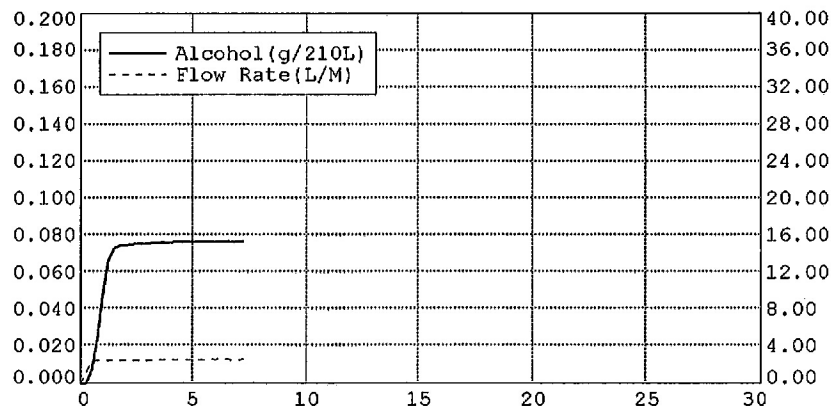
Date: 02/28/2012
Time: 15:15:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.44: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
EXTERNAL STANDARD	0.077	15:16
BLANK TEST	0.000	15:17
EXTERNAL STANDARD	0.077	15:18
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.078	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.077	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.077	15:21
BLANK TEST	0.000	15:22

Average = 0.0777
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100369

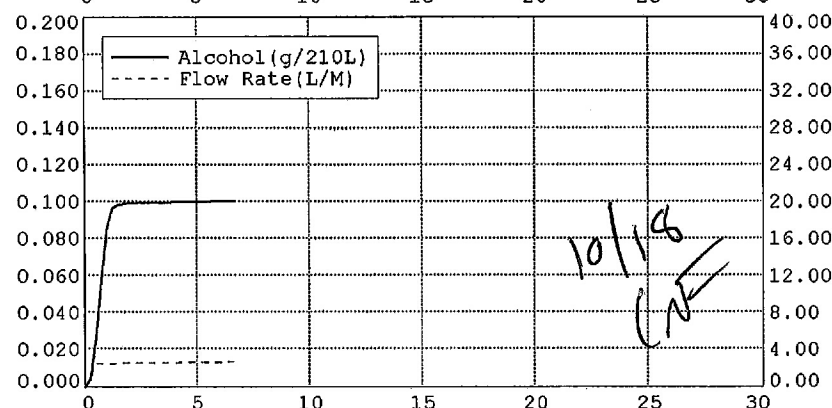
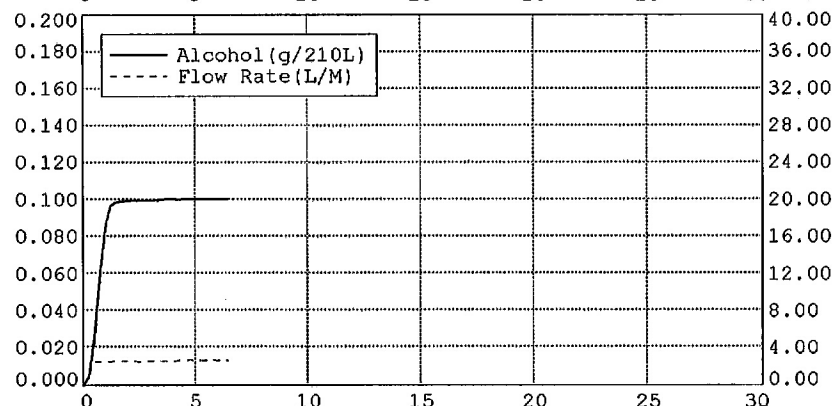
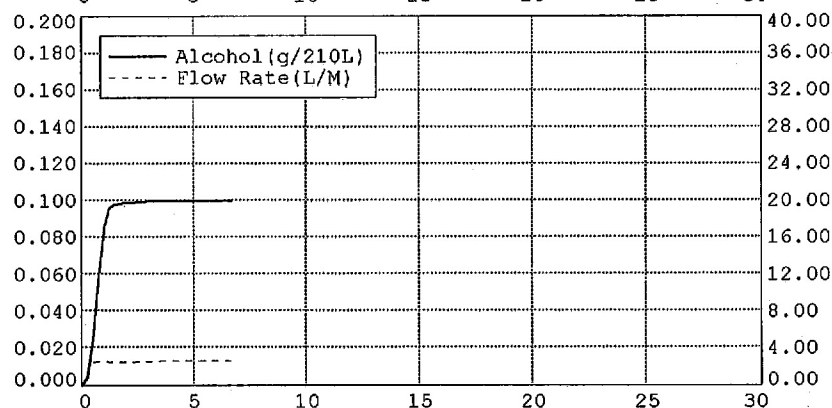
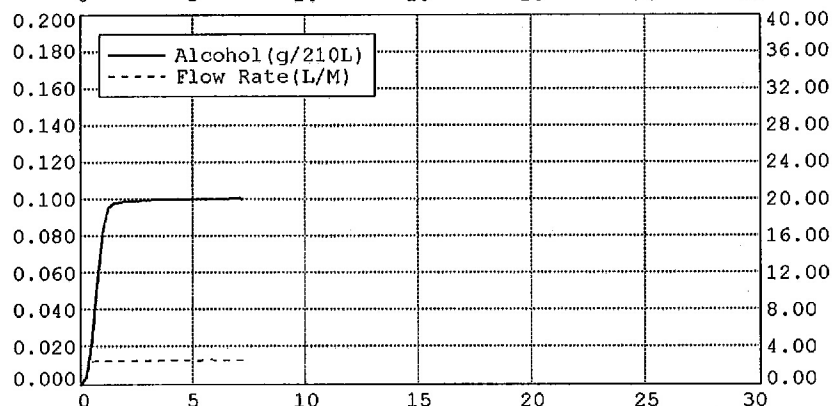
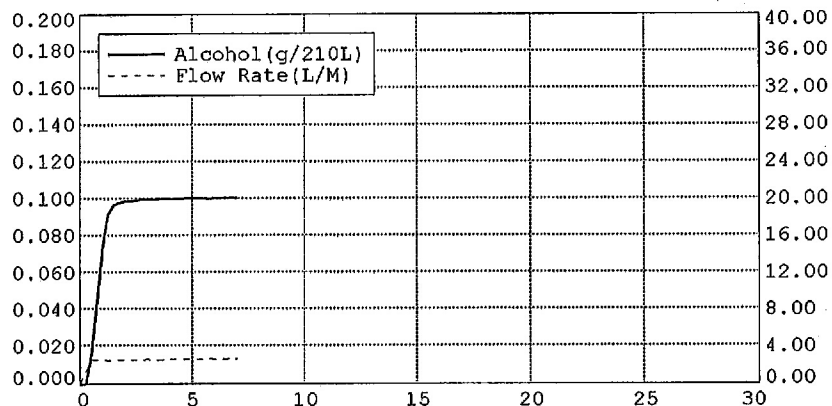
Date: 02/28/2012
Time: 15:24:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.46: 0.098
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:25
INTERNAL STANDARD	VERIFIED	15:26
EXTERNAL STANDARD	0.101	15:26
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.101	15:27
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.100	15:28
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.101	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.100	15:30
BLANK TEST	0.000	15:31

Average = 0.1010
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100369

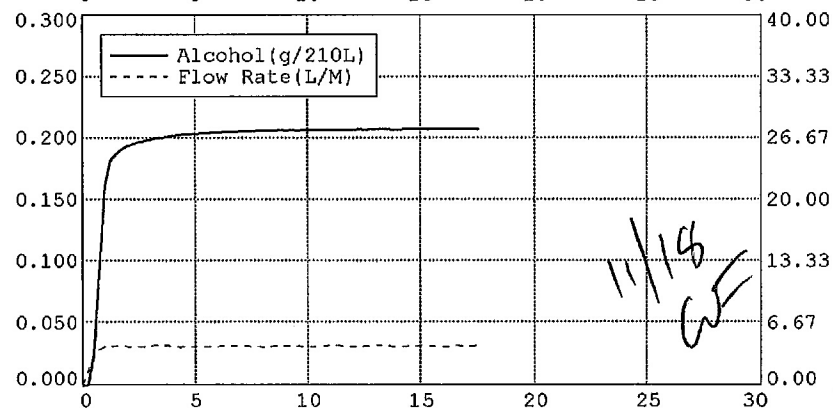
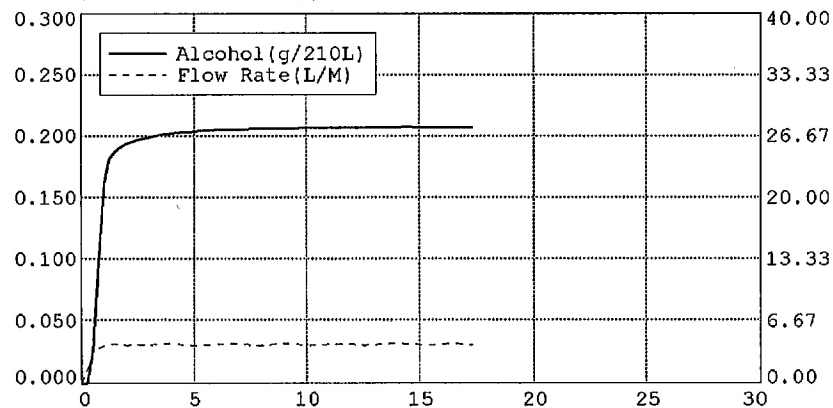
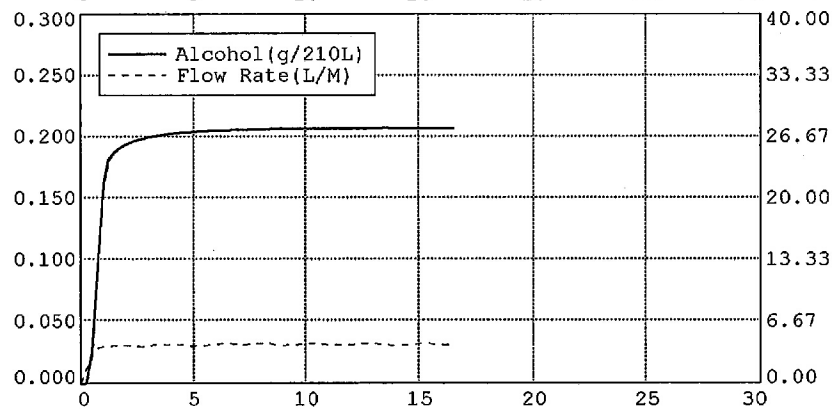
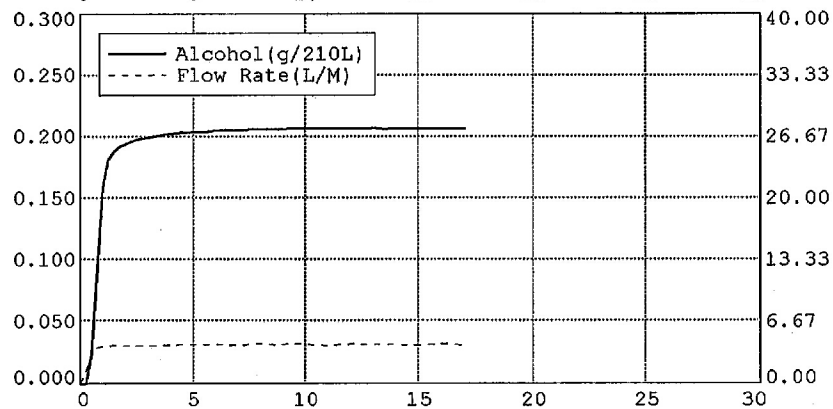
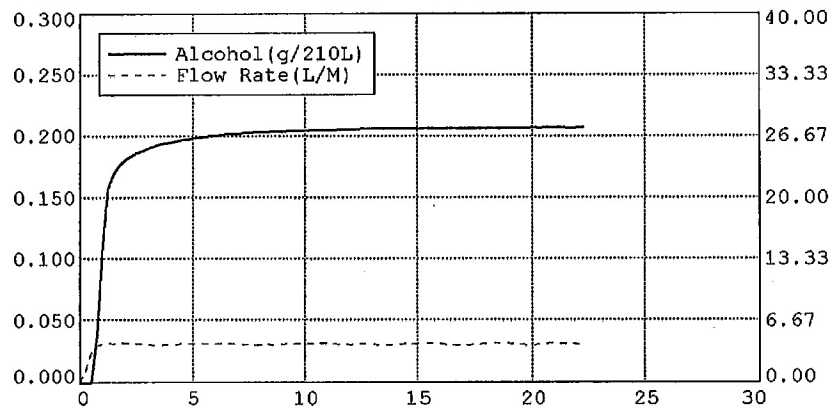
Date: 02/28/2012
Time: 15:43:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 11120
EXPIRATION: 07/19/2013

BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:45
EXTERNAL STANDARD	0.207	15:45
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.207	15:47
BLANK TEST	0.000	15:47
EXTERNAL STANDARD	0.207	15:48
BLANK TEST	0.000	15:49
EXTERNAL STANDARD	0.208	15:49
BLANK TEST	0.000	15:50
EXTERNAL STANDARD	0.208	15:50
BLANK TEST	0.000	15:51

Average = 0.2079
Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100369

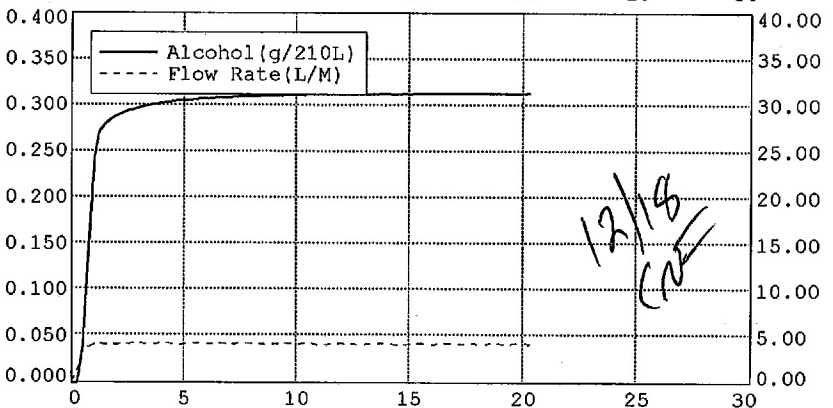
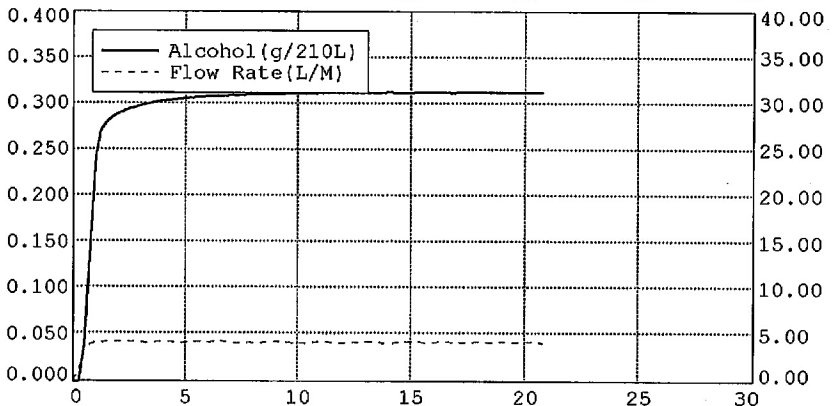
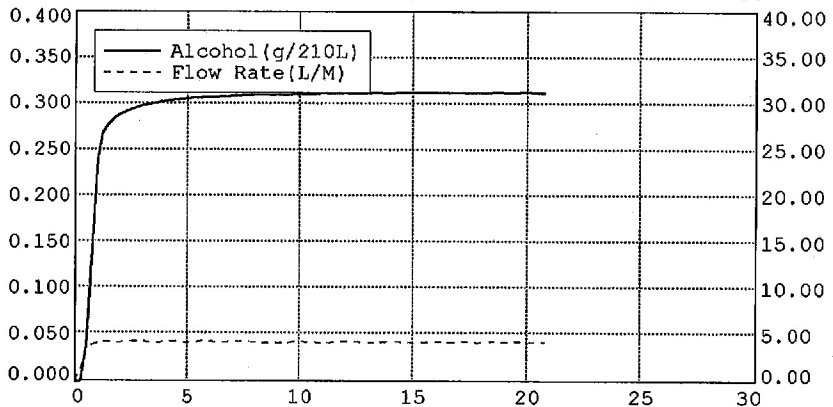
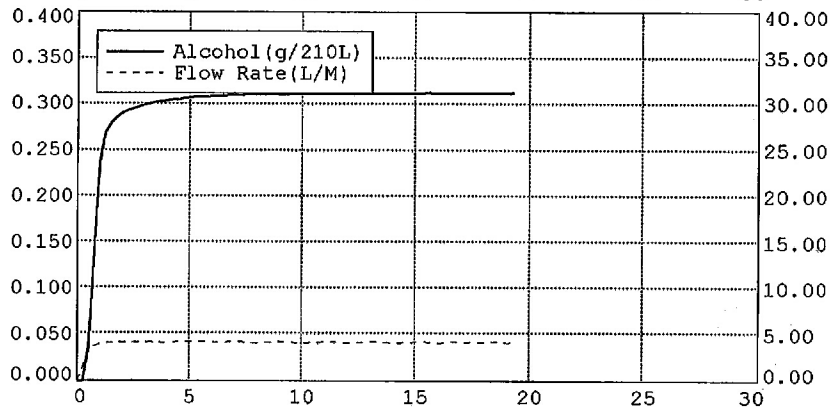
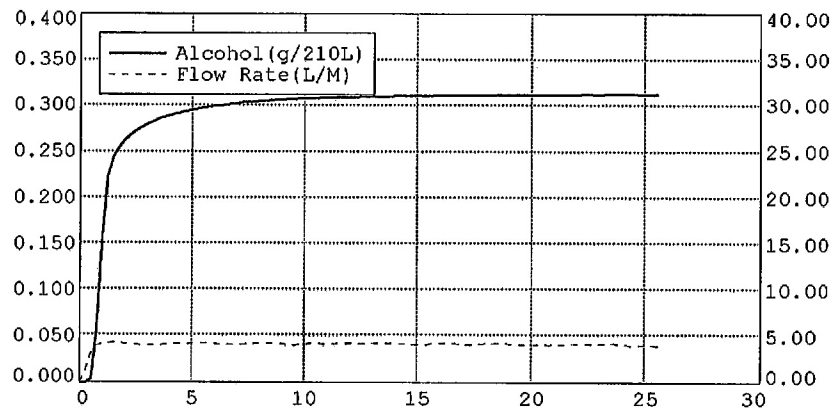
Date: 02/28/2012
Time: 16:04:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 11110
EXPIRATION: 07/13/2013

BLANK TEST	0.000	16:05
INTERNAL STANDARD	VERIFIED	16:05
EXTERNAL STANDARD	0.312	16:06
BLANK TEST	0.000	16:07
EXTERNAL STANDARD	0.312	16:07
BLANK TEST	0.000	16:08
EXTERNAL STANDARD	0.312	16:08
BLANK TEST	0.000	16:09
EXTERNAL STANDARD	0.313	16:10
BLANK TEST	0.000	16:11
EXTERNAL STANDARD	0.313	16:11
BLANK TEST	0.000	16:12

Average = 0.3129
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100369

Date: 02/29/2012
Time: 13:02:12

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

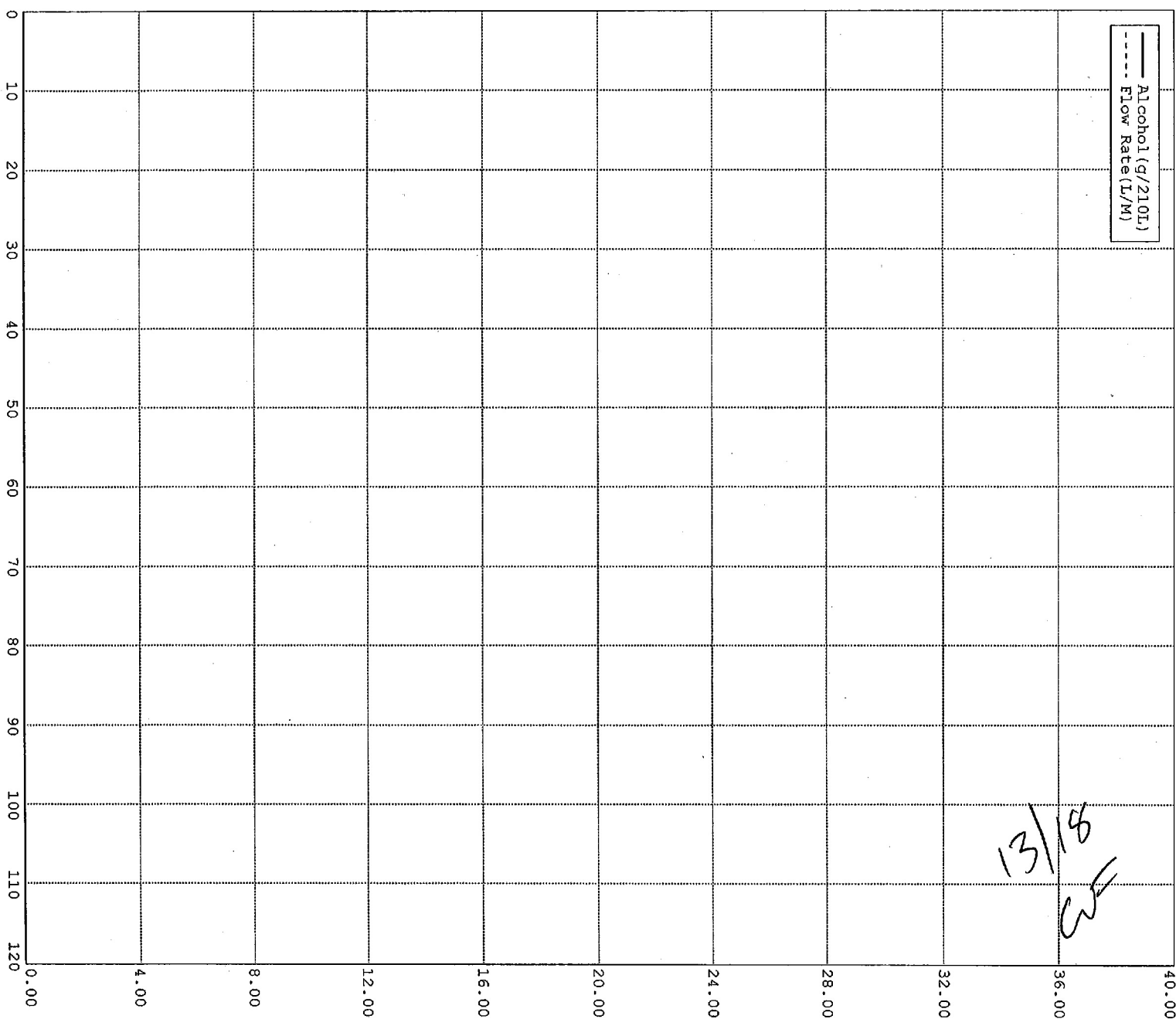
OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.46: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:03
BLANK TEST	0.000	13:03
INTERNAL STANDARD	VERIFIED	13:03
EXTERNAL STANDARD	0.076	13:03
BLANK TEST	0.000	13:04
SUBJECT SAMPLE	INCOMPLETE	13:06

CTCF



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 02/29/2012
Time: 13:16:32

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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

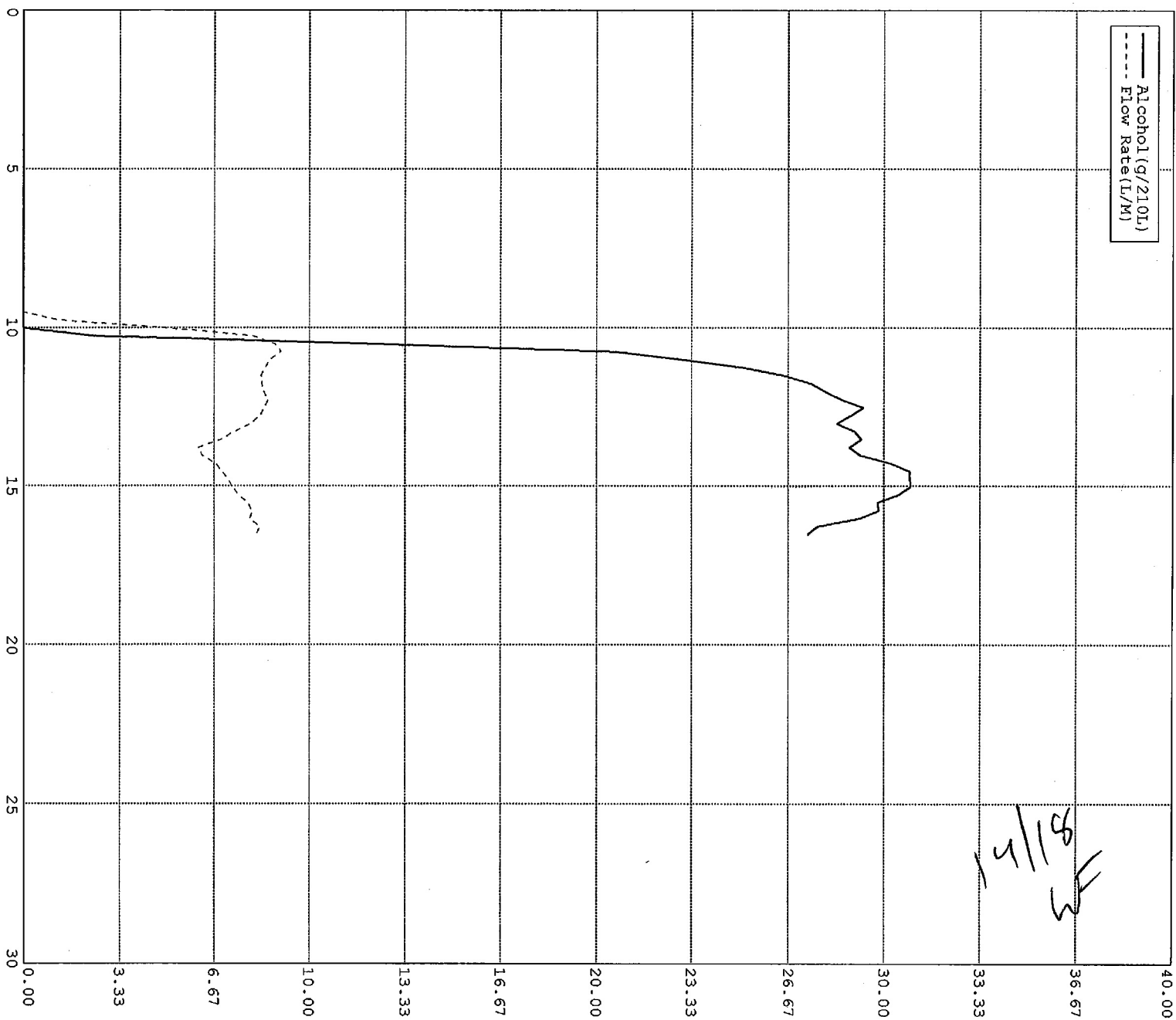
DEPT/AGENCY:
XXXX

CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:19
BLANK TEST	0.000	13:19
INTERNAL STANDARD	VERIFIED	13:19
EXTERNAL STANDARD	0.077	13:19
BLANK TEST	0.000	13:20
SUBJECT SAMPLE	INVALID	13:21

CAF

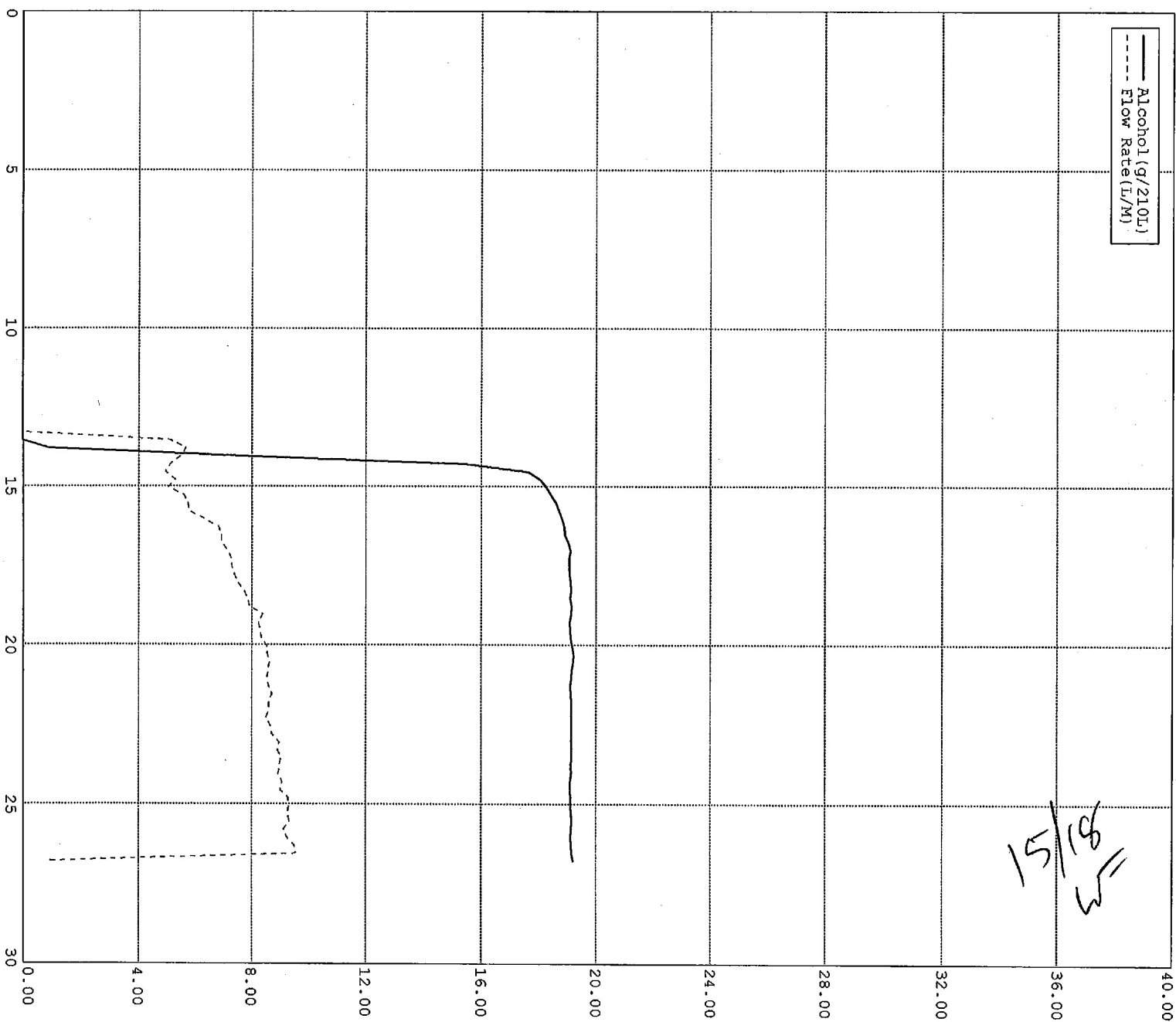


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100369Date: 02/29/2012
Time: 14:29:01SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INTERFERENCE ETOH AND ACETONE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.44: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:31
BLANK TEST	0.000	14:32
INTERNAL STANDARD	VERIFIED	14:32
EXTERNAL STANDARD	0.080	14:32
BLANK TEST	0.000	14:33
SUBJECT SAMPLE	INTERFERENCE	14:33

CRF



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100369

Date: 02/29/2012
 Time: 14:47:54

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

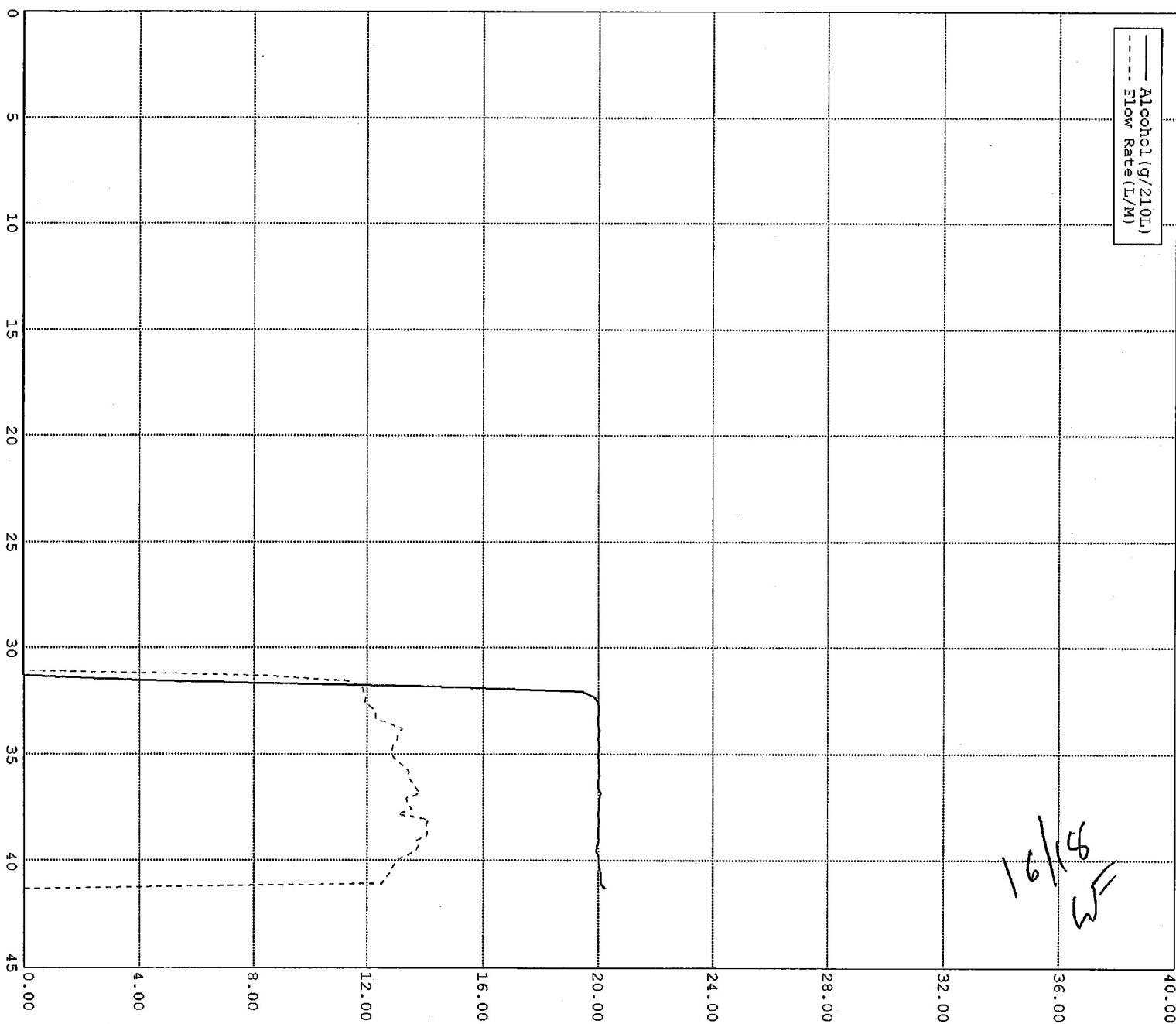
OPERATOR NAME:
 INTERFERENCE ETOH AND IPA
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.44: 0.078
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:48
BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.080	14:49
BLANK TEST	0.000	14:50
SUBJECT SAMPLE	INTERFERENCE	14:51

CRT



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100369

Date: 02/29/2012
Time: 14:56:40

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

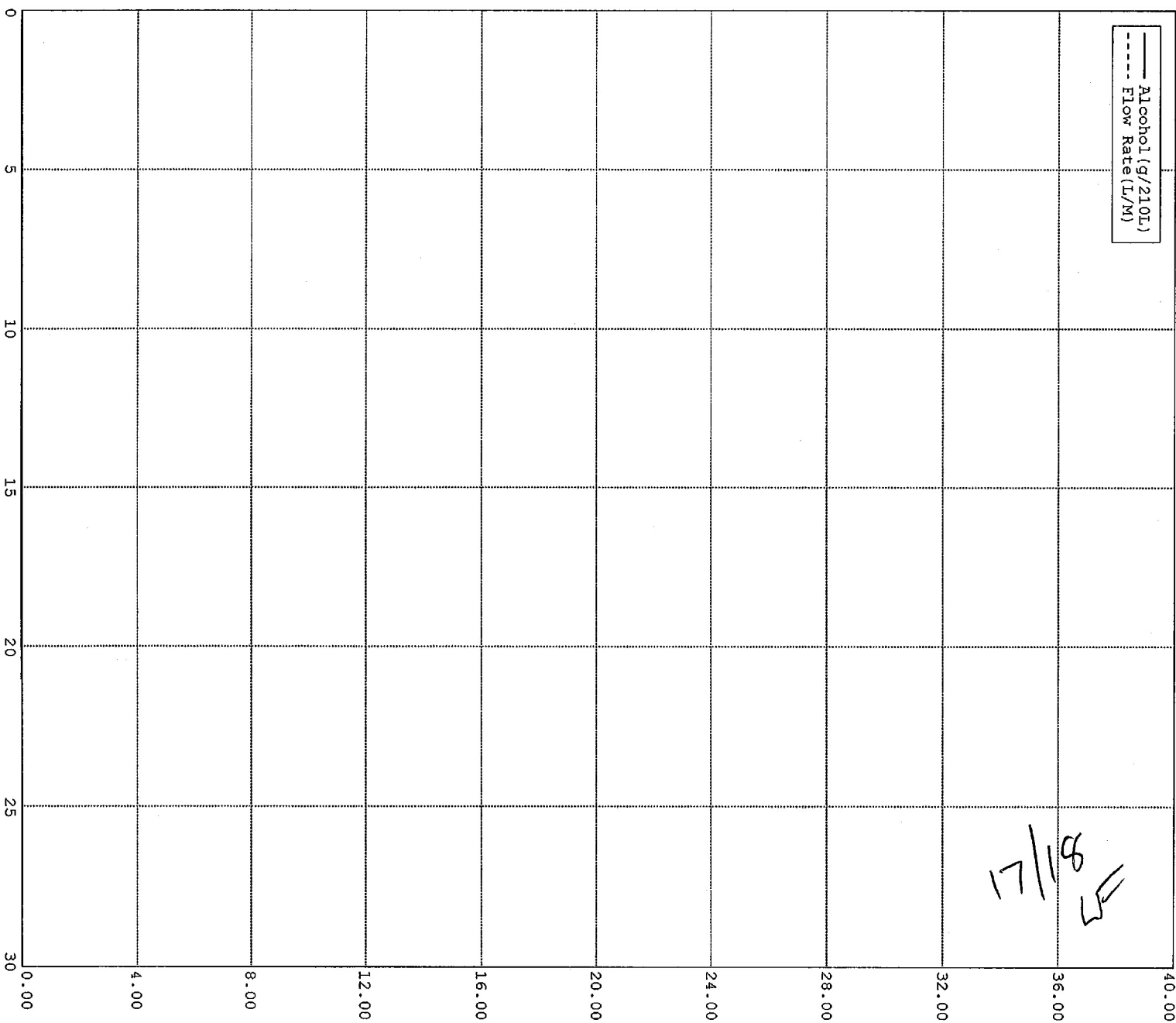
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.44: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK
BLANK TEST PASSED 14:58
INTERNAL STANDARD VERIFIED 14:58
EXTERNAL STANDARD 0.079 14:58
BLANK TEST 0.000 14:59

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100369

Date: 02/29/2012
 Time: 16:17:46

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 29.44: 0.078
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	16:19
BLANK TEST	0.000	16:19
INTERNAL STANDARD	VERIFIED	16:19
EXTERNAL STANDARD	0.080	16:19
BLANK TEST	0.000	16:20
SUBJECT SAMPLE	0.000	16:20
BLANK TEST	0.000	16:21
EXTERNAL STANDARD	0.080	16:22
BLANK TEST	0.000	16:22

CRF

