

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012

Version: DMCEF2012 R1

Effective: 04/04/2012

Status: Active

Instrument S/N 100675 Analyst CRF Start Date 5/2/12
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)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1500 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 3/1/13ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14iv. 0.100g/210L Mnf ILMO Lot 07611100A3 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 Guth Lot 11110 Exp 7/13/131. Simulator S/N DR4176 Date Calibrated 2/21/12

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 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 1/10/12iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/131. Simulator S/N SD1202 Date Calibrated 8/17/11d. RFI ☒6. Verify stylus is calibrated ☒7. Verify card reader is functional ☒8. Reset Options ☒9. Clear Memory ☒10. Verification of Calibration ☒11. Non-Drinking Subject Test (attached) ☒12. Upload ☒13. Update agency information and polling status in DM Host Calling Program ☒End Date 5/7/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 05/02/2012
Time: 12:31:46

VERSIONS

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

TEMPERATURES

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

PUMP INFO

Flow Rate = 5.092 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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(RF
2/19

Technician Screen

DATAMASTER dmt: 100675

Date: 05/02/2012

Time: 1:03 PM

Temperatures (°C)

Sample Cell: 49.3°C

Breath Tube: 48.0°C

Current Barometer 29.6 in

Volume (Ltr) 1.45

Settings

Lamp: 1.68 V

Bias: 79 V

Cooler: 1.66 V

Chopper: 550 Hz

Voltages (V)

Flow: 1.06 V

Detector: -0.022 V

CRF
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CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 10/25/2011
Time: 10:29:44

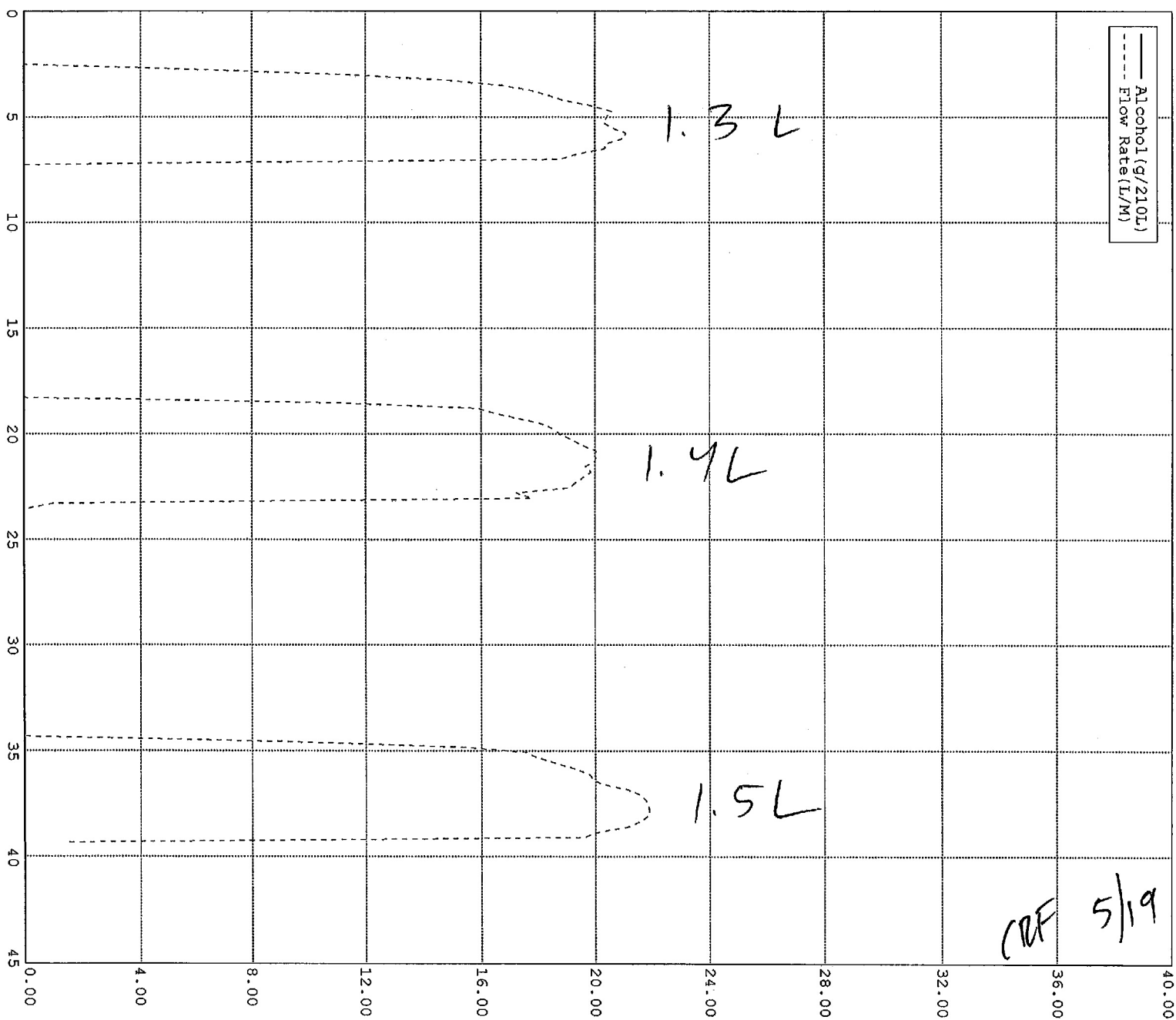
Ca = 0.1000
CAL = 0.978693 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0031 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0849 0.0500 <= Xq < 0.2000
a21 = 1.192763 1.050 <= a21 < 1.300
a31 = 0.437617 0.300 <= a31 < 0.800

CRF
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SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100675Date: 05/02/2012
Time: 13:06:25SUBJECT 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 29.65: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:07
BLANK TEST	0.000	13:07
INTERNAL STANDARD	VERIFIED	13:07
EXTERNAL STANDARD	0.077	13:07
BLANK TEST	0.000	13:08
SUBJECT SAMPLE	0.000	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.078	13:10
BLANK TEST	0.000	13:11



LINEARITY CHECK

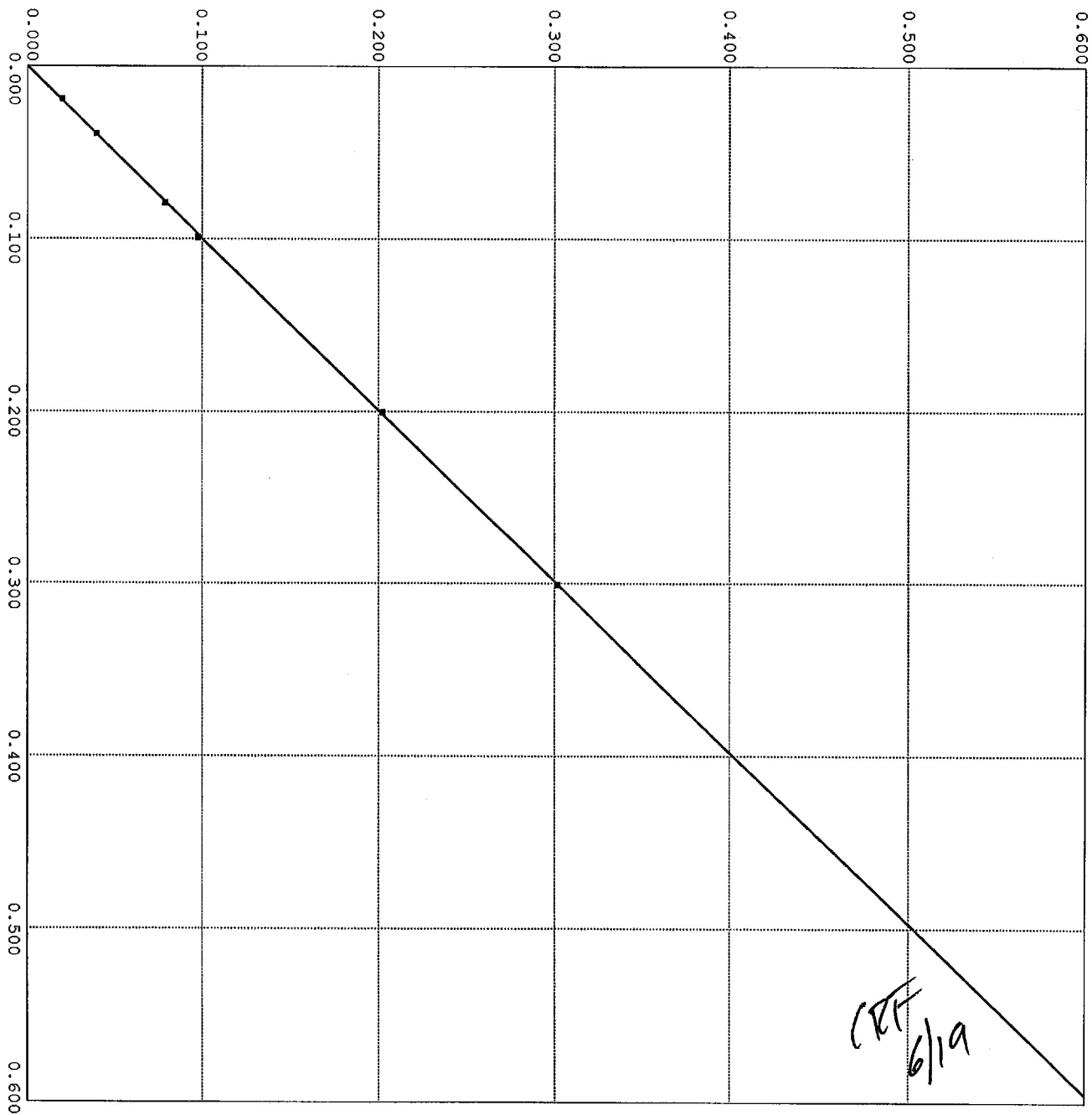
Alaska Department of Public Safety
 DATAMASTER dmt: 100675

Date: 05/02/2012
 Time: 13:58:05

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0203	0.0002
0.039	0.0399	0.0002
0.079	0.0790	0.0002
0.099	0.0984	0.0003
0.200	0.2032	0.0001
0.300	0.3023	0.0003

SLOPE = 1.008031
 R^2 = 0.999895



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100675

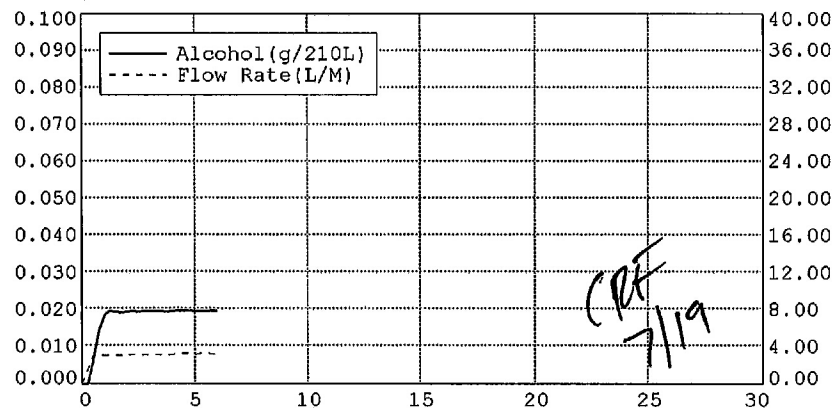
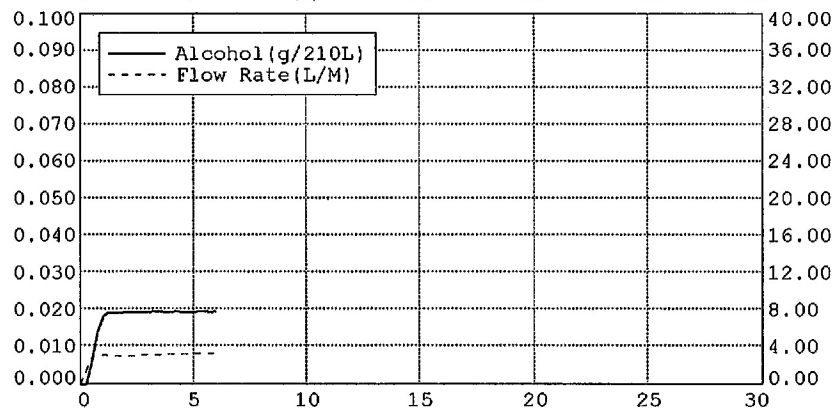
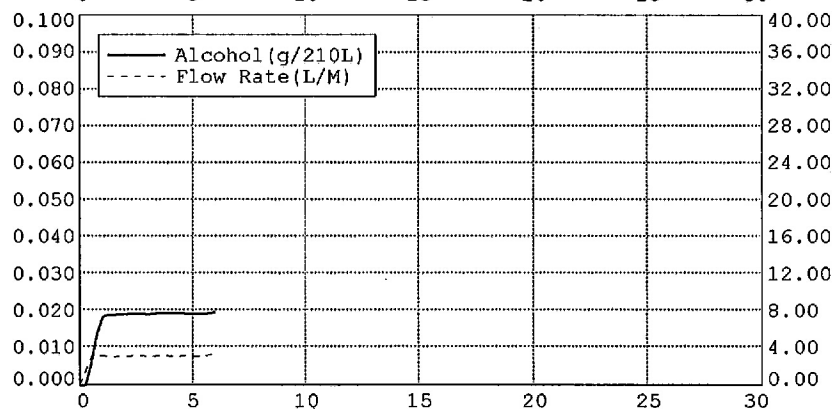
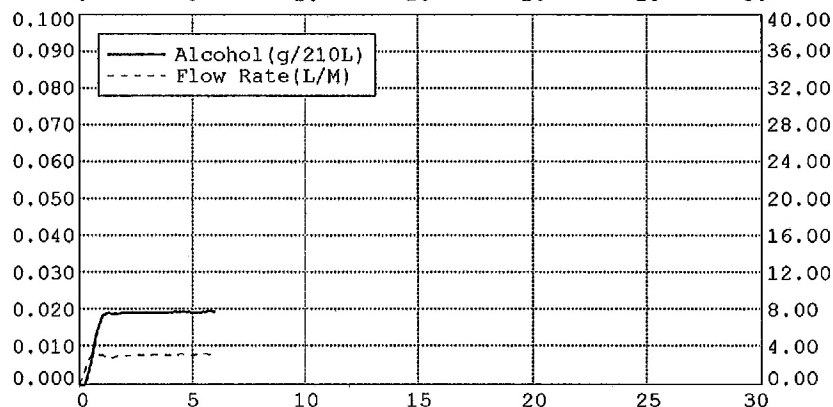
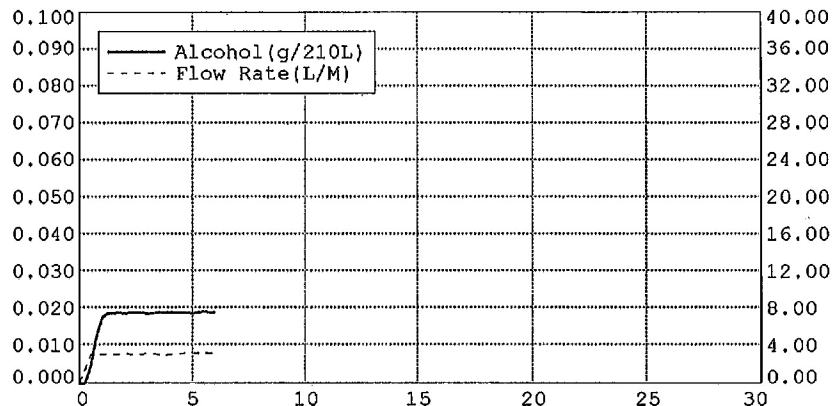
Date: 05/02/2012
Time: 13:58:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.64: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:59
INTERNAL STANDARD	VERIFIED	13:59
EXTERNAL STANDARD	0.019	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.020	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.020	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.020	14:03
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.020	14:04
BLANK TEST	0.000	14:05

Average = 0.0203
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100675

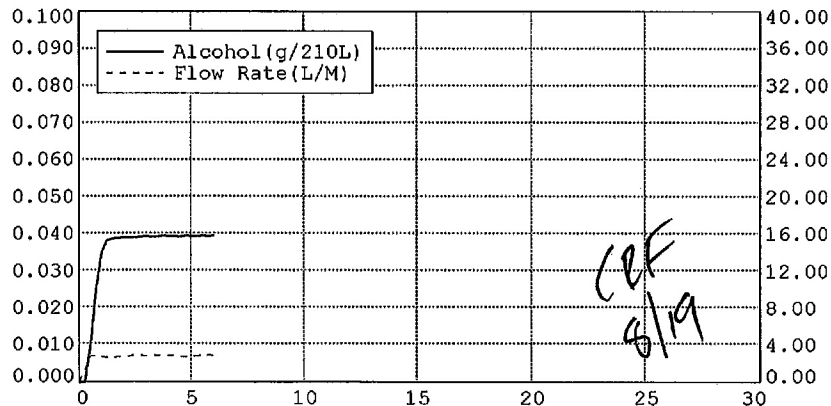
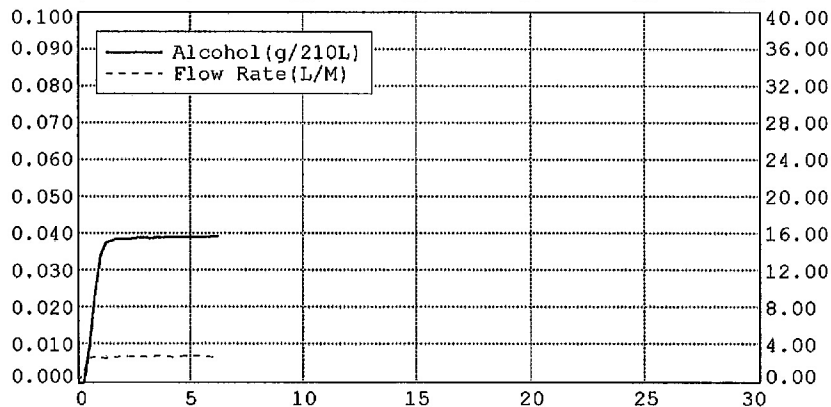
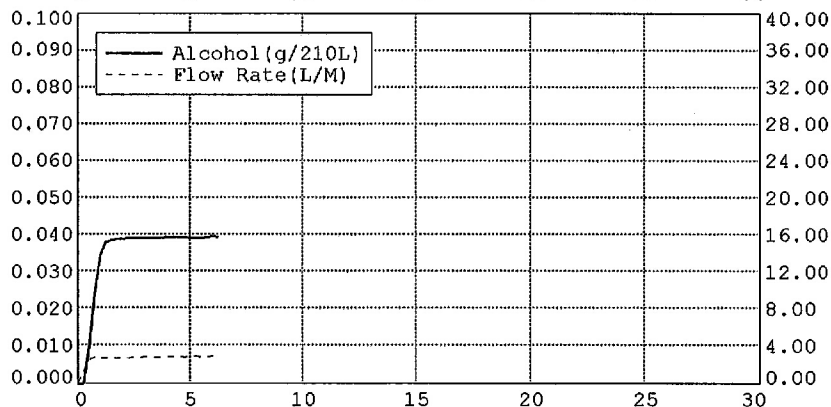
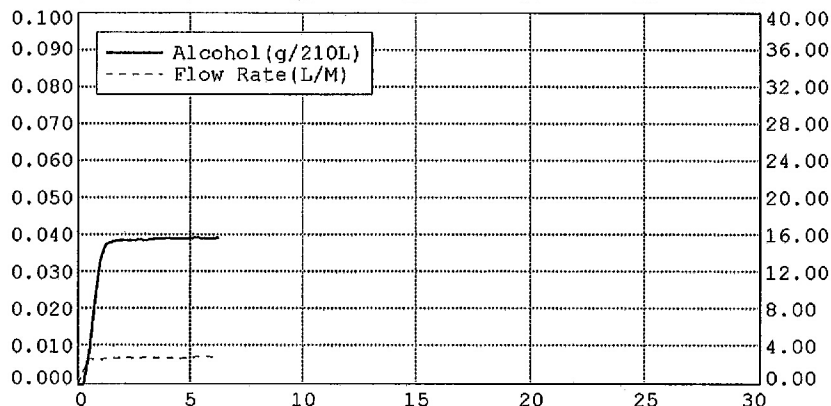
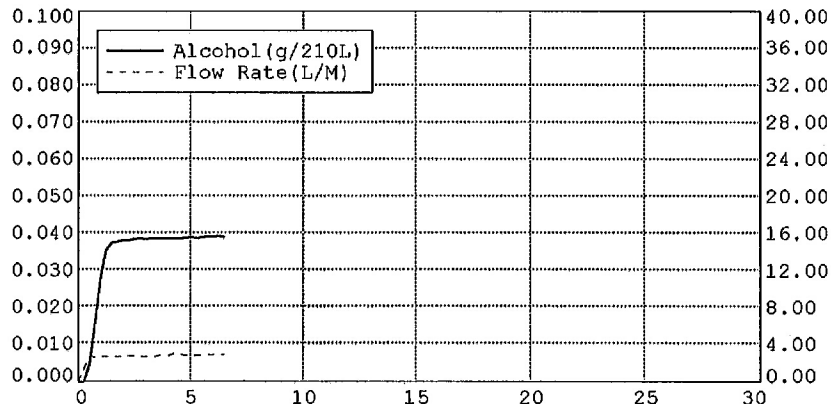
Date: 05/02/2012
Time: 14:06:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.64: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:07
INTERNAL STANDARD	VERIFIED	14:07
EXTERNAL STANDARD	0.039	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.039	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.040	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.039	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.040	14:11
BLANK TEST	0.000	14:12

Average = 0.0399
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 05/02/2012
Time: 14:15:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

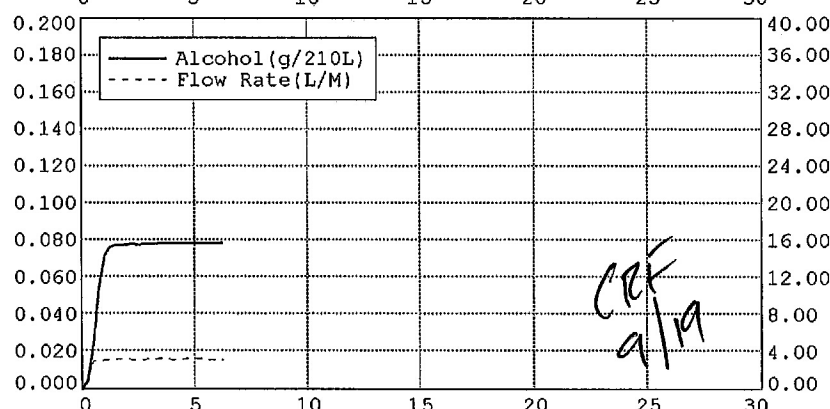
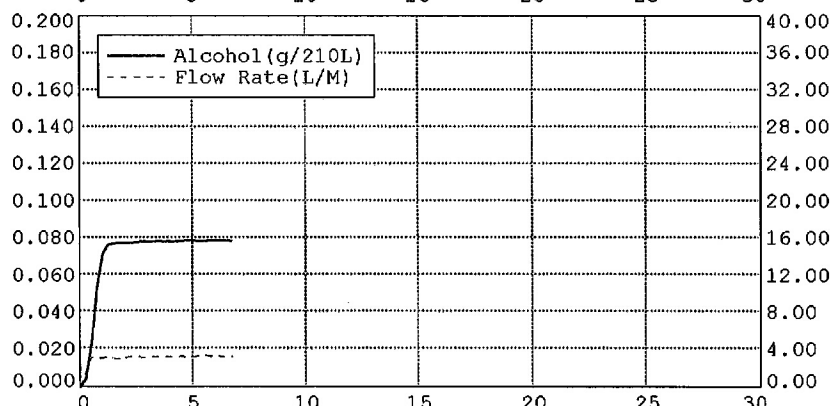
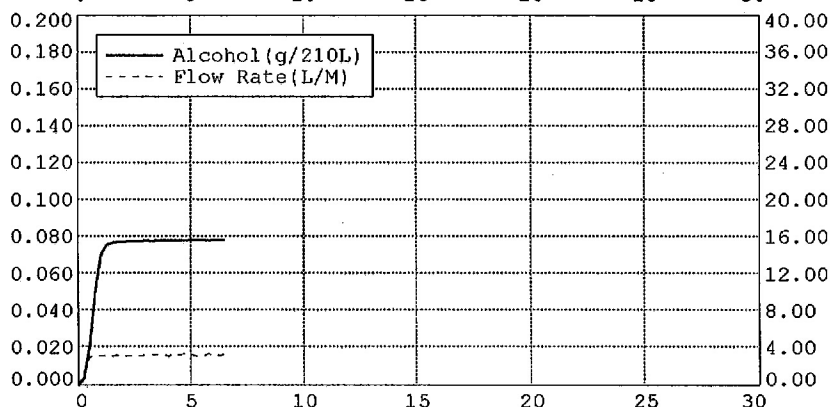
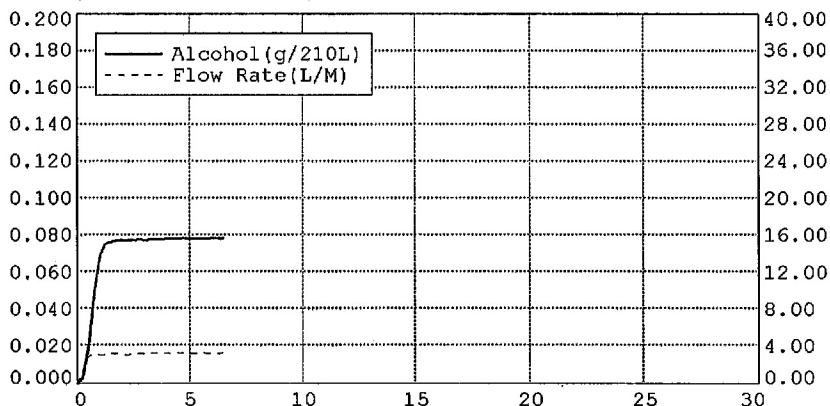
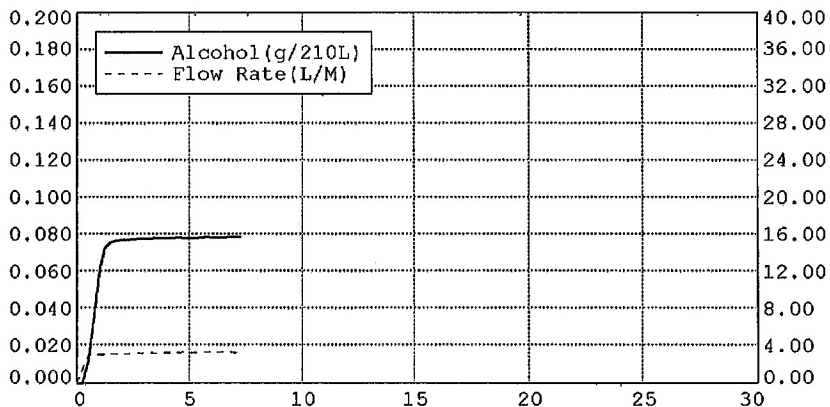
TARGET AT 29.64: 0.079

LOT #: 02012080A1

Exp: 0.080 3/1/14 CEF

BLANK TEST	0.000	14:17
INTERNAL STANDARD	VERIFIED	14:17
EXTERNAL STANDARD	0.079	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.078	14:18
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.079	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.079	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.079	14:21
BLANK TEST	0.000	14:22

Average = 0.0790
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt; 100675

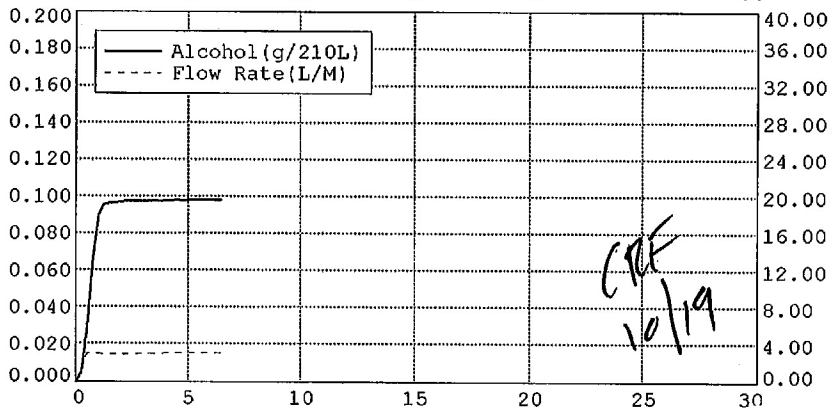
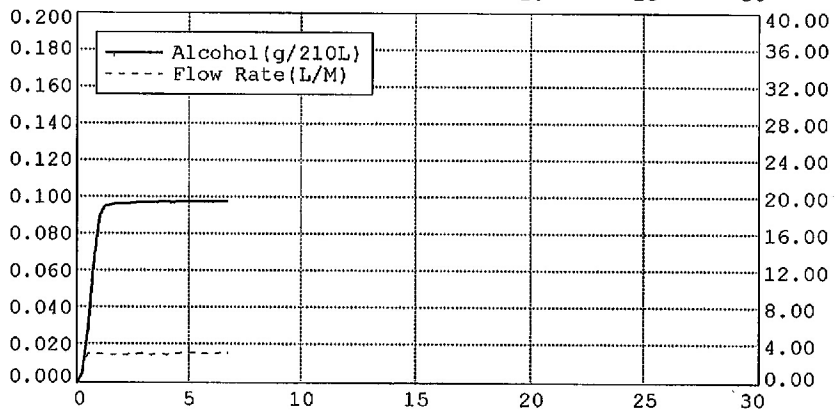
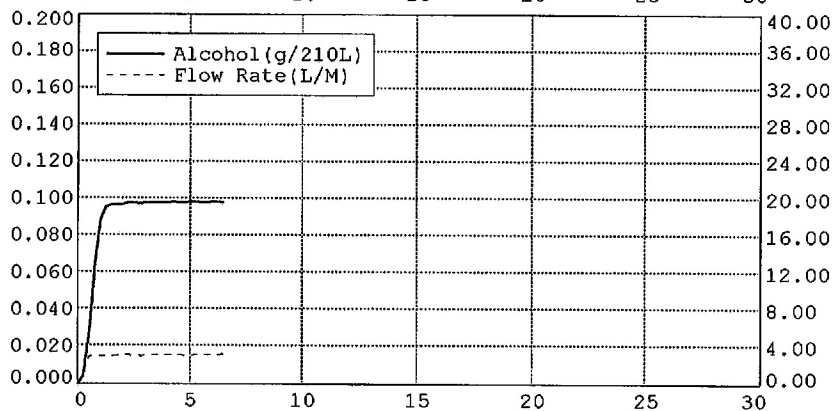
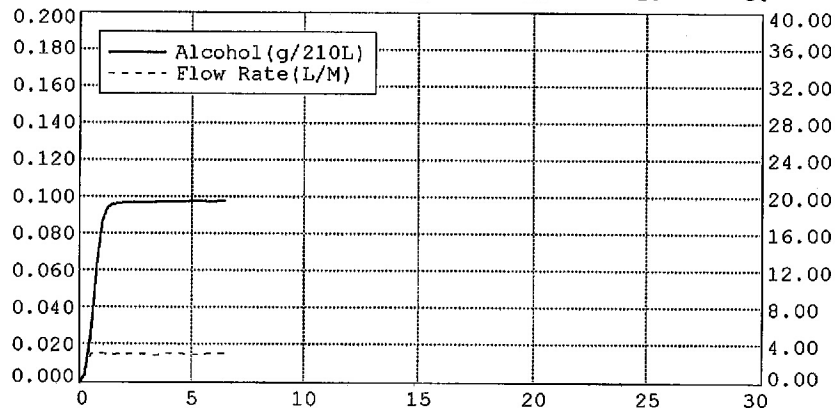
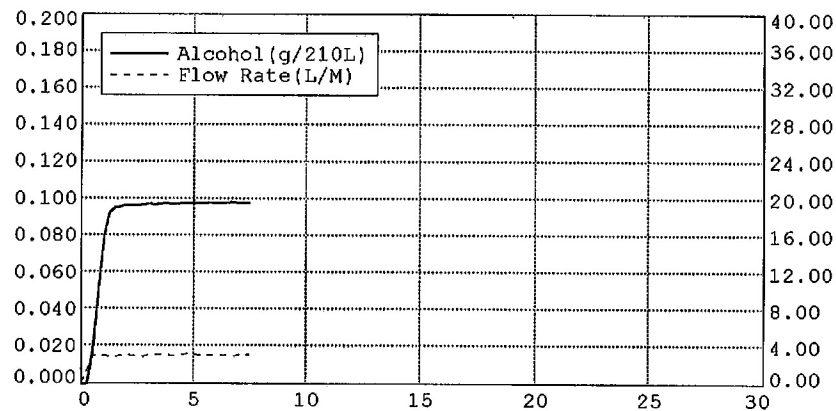
Date: 05/02/2012
Time: 14:26:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.64: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:27
INTERNAL STANDARD	VERIFIED	14:27
EXTERNAL STANDARD	0.098	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.098	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.098	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.098	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.098	14:32
BLANK TEST	0.000	14:33

Average = 0.0984
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 05/02/2012
Time: 14:42:56

EXTERNAL STANDARD INFORMATION

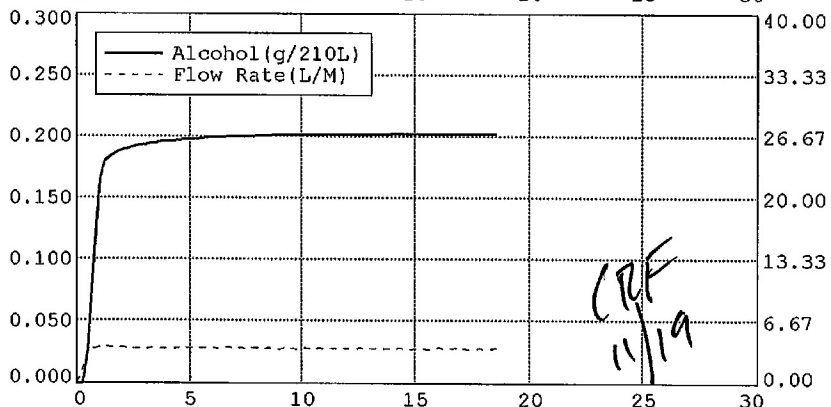
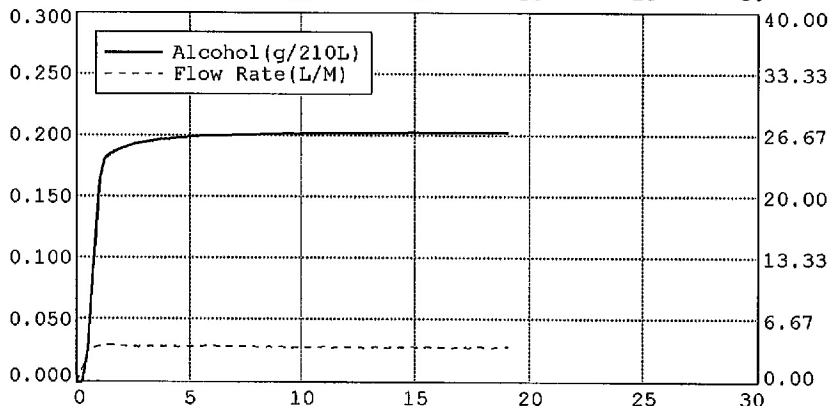
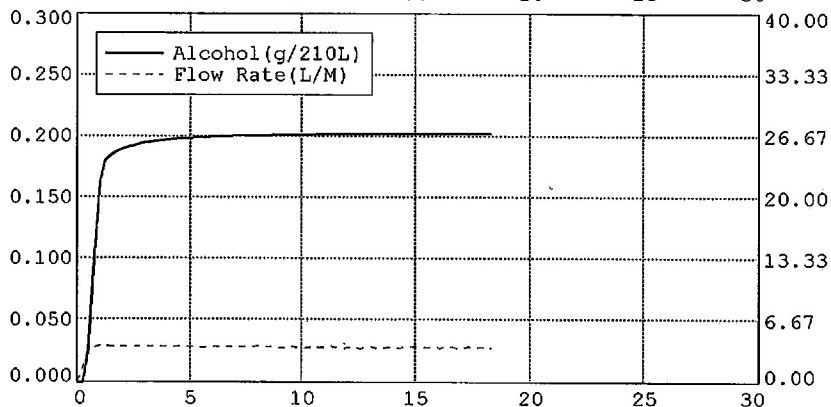
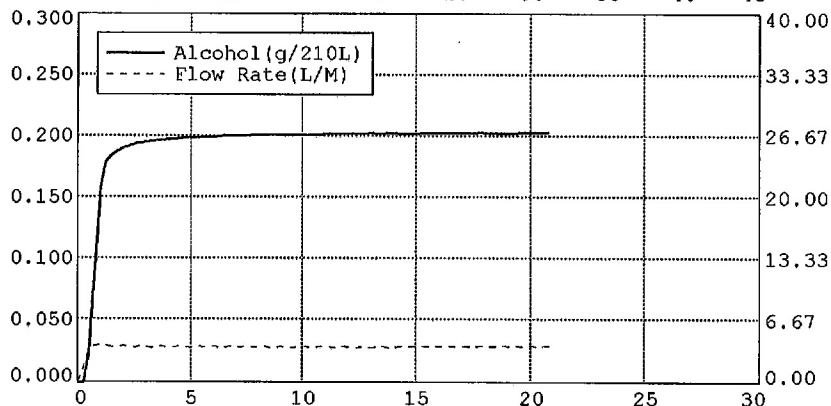
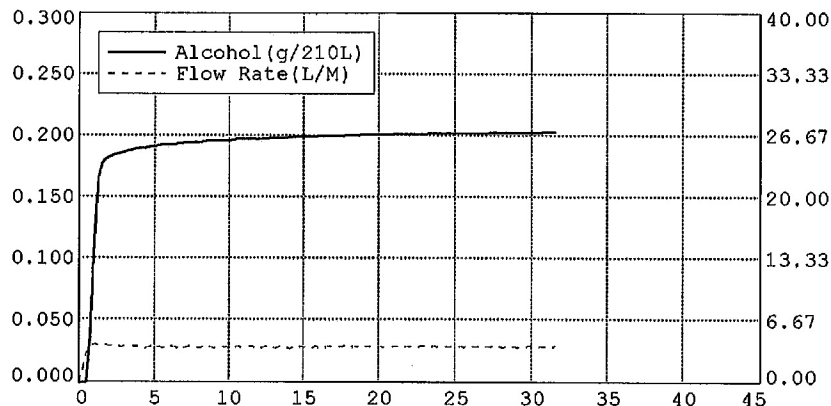
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	14:44
INTERNAL STANDARD	VERIFIED	14:44
EXTERNAL STANDARD	0.203	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.203	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.203	14:48
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.203	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.203	14:50
BLANK TEST	0.000	14:51

Average = 0.2032
Std Dev = 0.0001



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100675

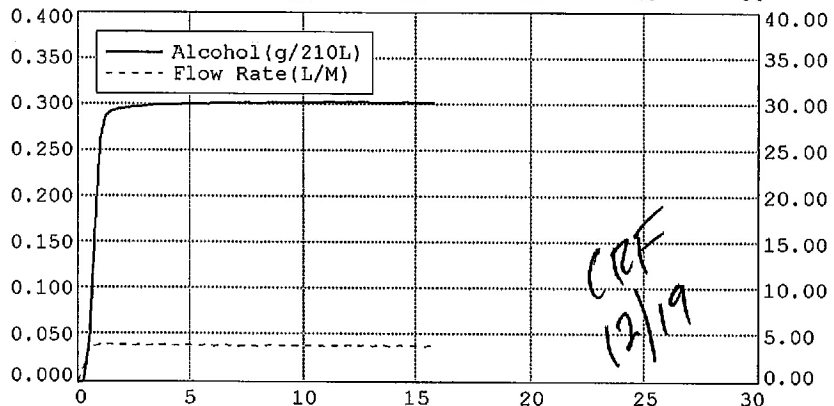
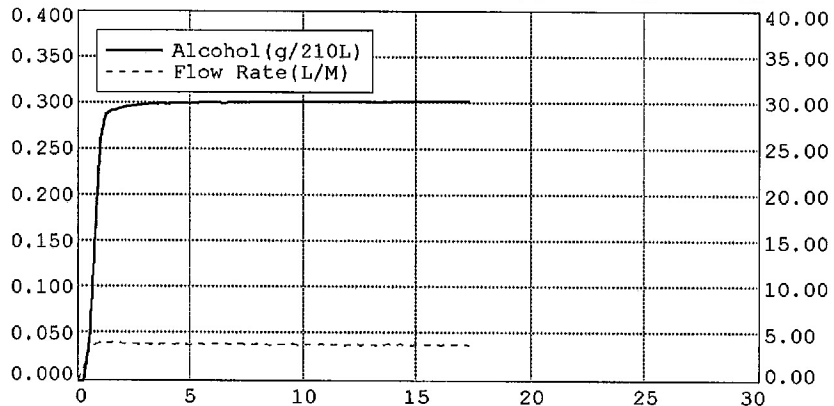
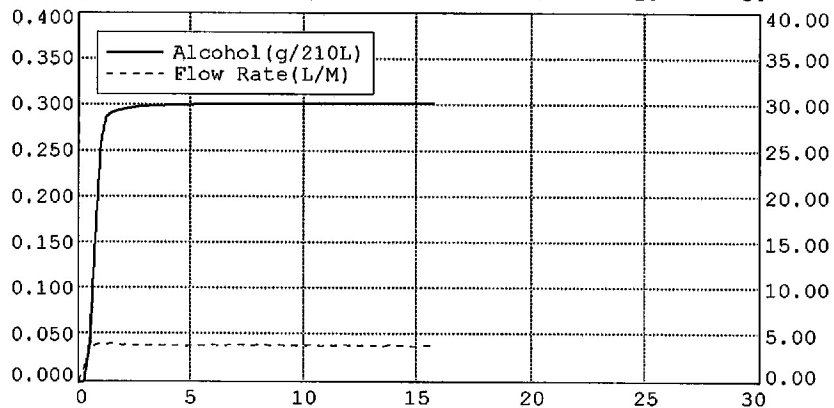
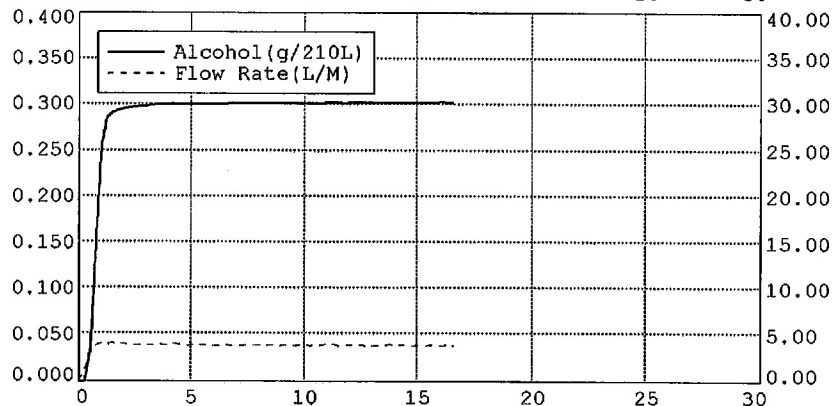
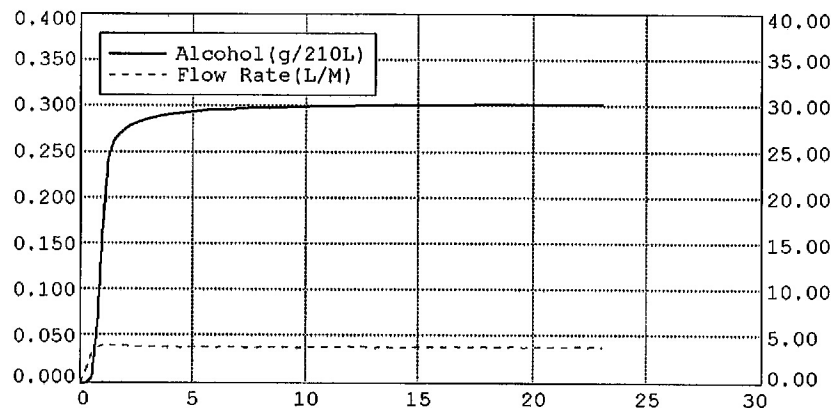
Date: 05/02/2012
Time: 14:55:08

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:56
INTERNAL STANDARD	VERIFIED	14:56
EXTERNAL STANDARD	0.301	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.302	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.302	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.302	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.302	15:02
BLANK TEST	0.000	15:03

Average = 0.3023
Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100675

Date: 05/04/2012
Time: 08:30:01

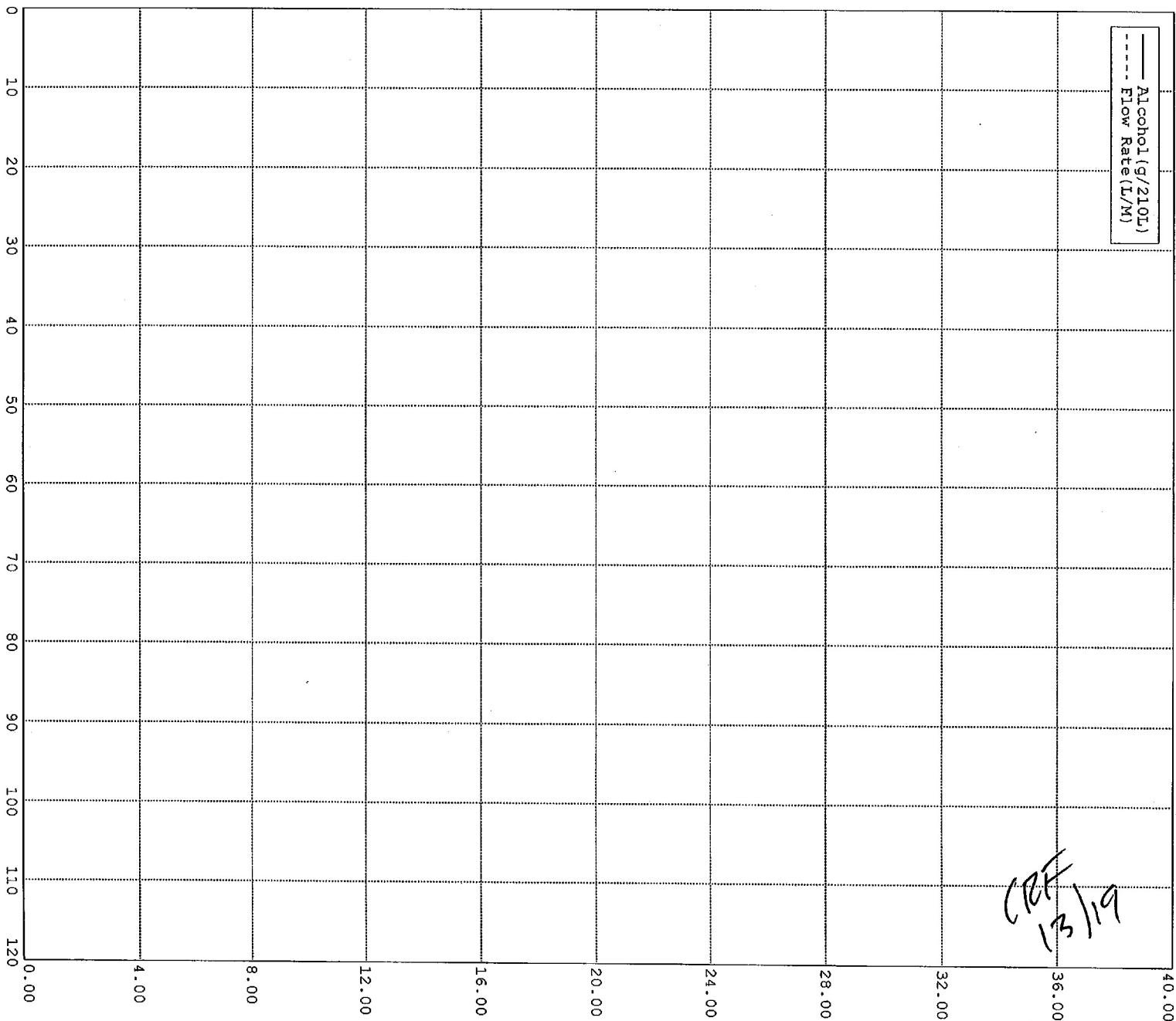
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:31
BLANK TEST	0.000	08:31
INTERNAL STANDARD	VERIFIED	08:31
EXTERNAL STANDARD	0.078	08:31
BLANK TEST	0.000	08:32
SUBJECT SAMPLE	INCOMPLETE	08:34



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675

Date: 05/04/2012
Time: 10:33:51

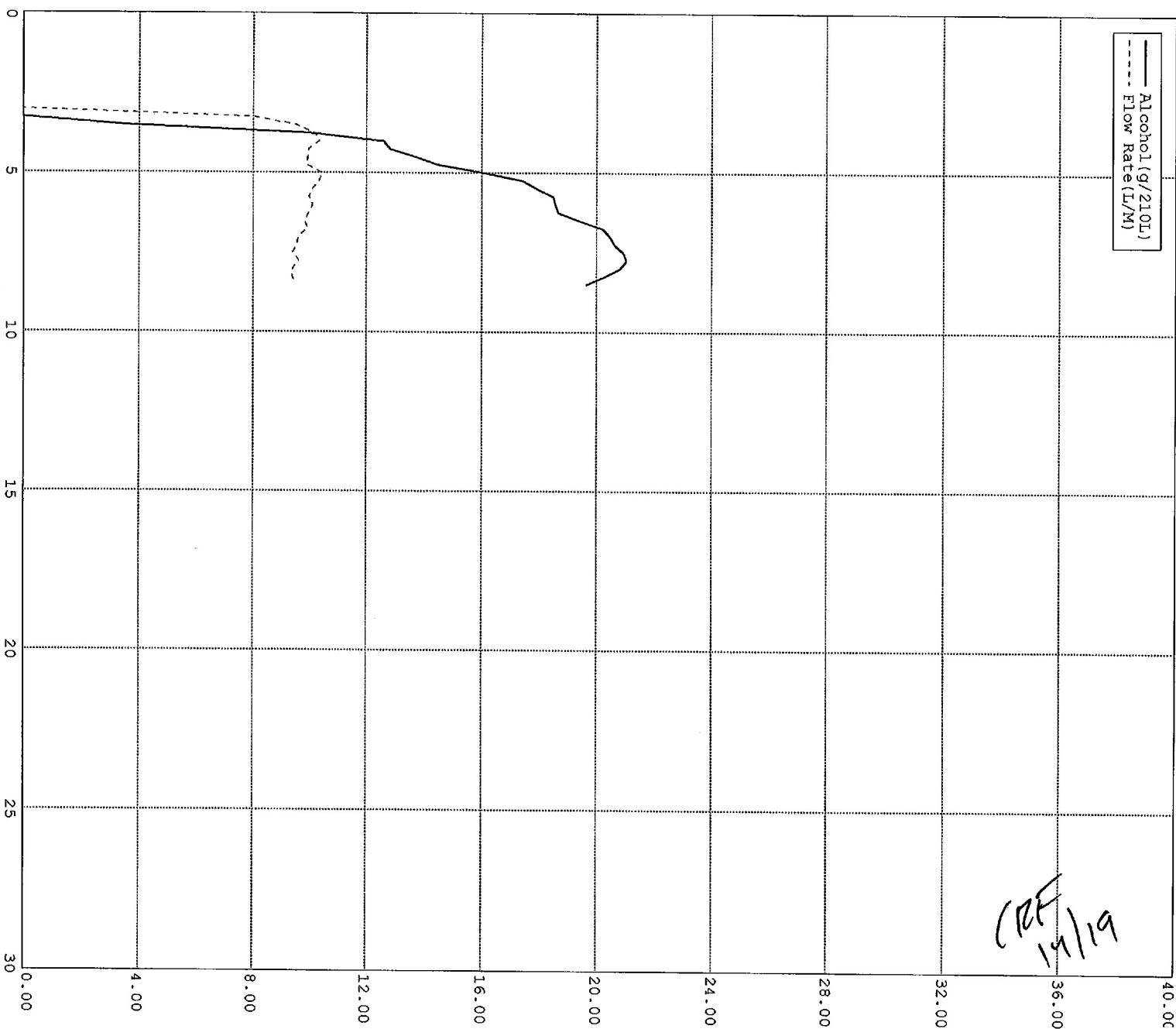
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.68: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

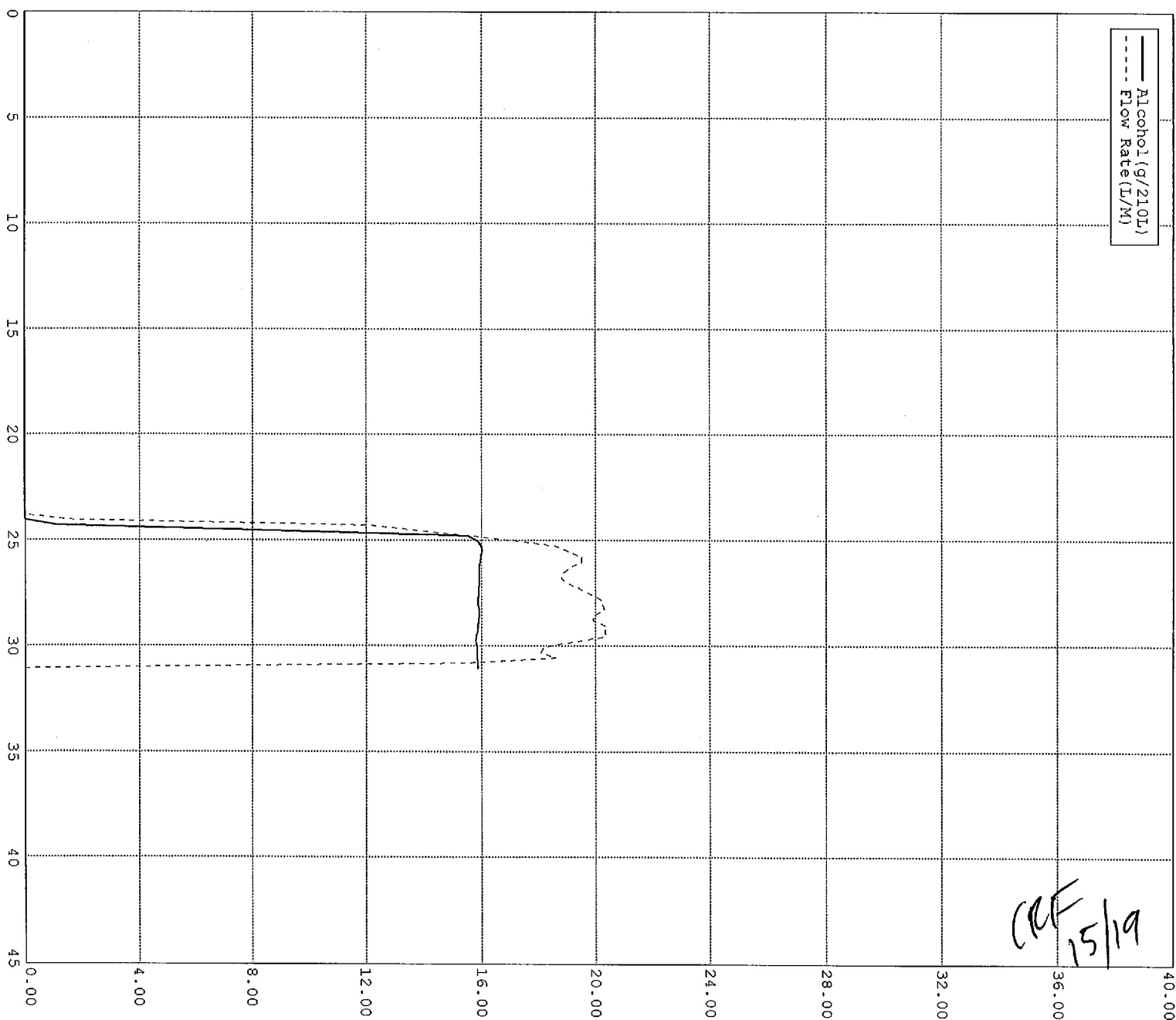
DIAGNOSTIC CHECK	
BLANK TEST	PASSED 10:38
INTERNAL STANDARD	0.000 10:38
EXTERNAL STANDARD	VERIFIED 10:39
BLANK TEST	0.078 10:39
SUBJECT SAMPLE	0.000 10:40
	INVALID 10:40



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100675Date: 05/04/2012
Time: 10:54:24SUBJECT 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 29.69: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

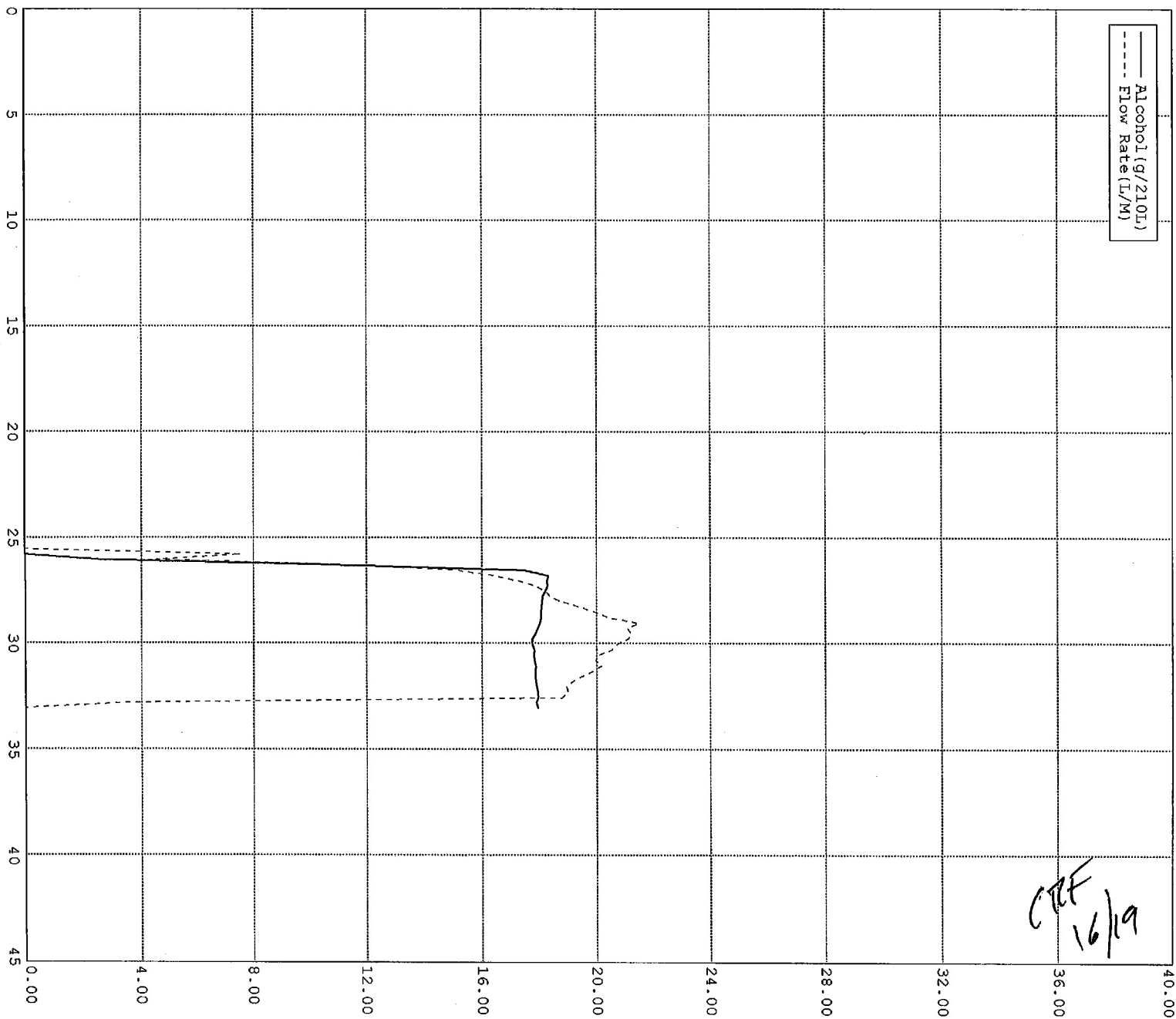
DIAGNOSTIC CHECK	PASSED	10:56
BLANK TEST	0.000	10:56
INTERNAL STANDARD	VERIFIED	10:56
Xq = 0.085 (0.41%)		
EXTERNAL STANDARD	0.078	10:57
X[1] = 0.0783 (0.0005)	(0.0025)	
BLANK TEST	0.000	10:58
SUBJECT SAMPLE	INTERFERENCE	10:58
X[1] = 0.0797 (-0.0097)	(0.0013)	



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100675Date: 05/04/2012
Time: 11:04:36SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INTERFERENCE ETOH AND IPA
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.68: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

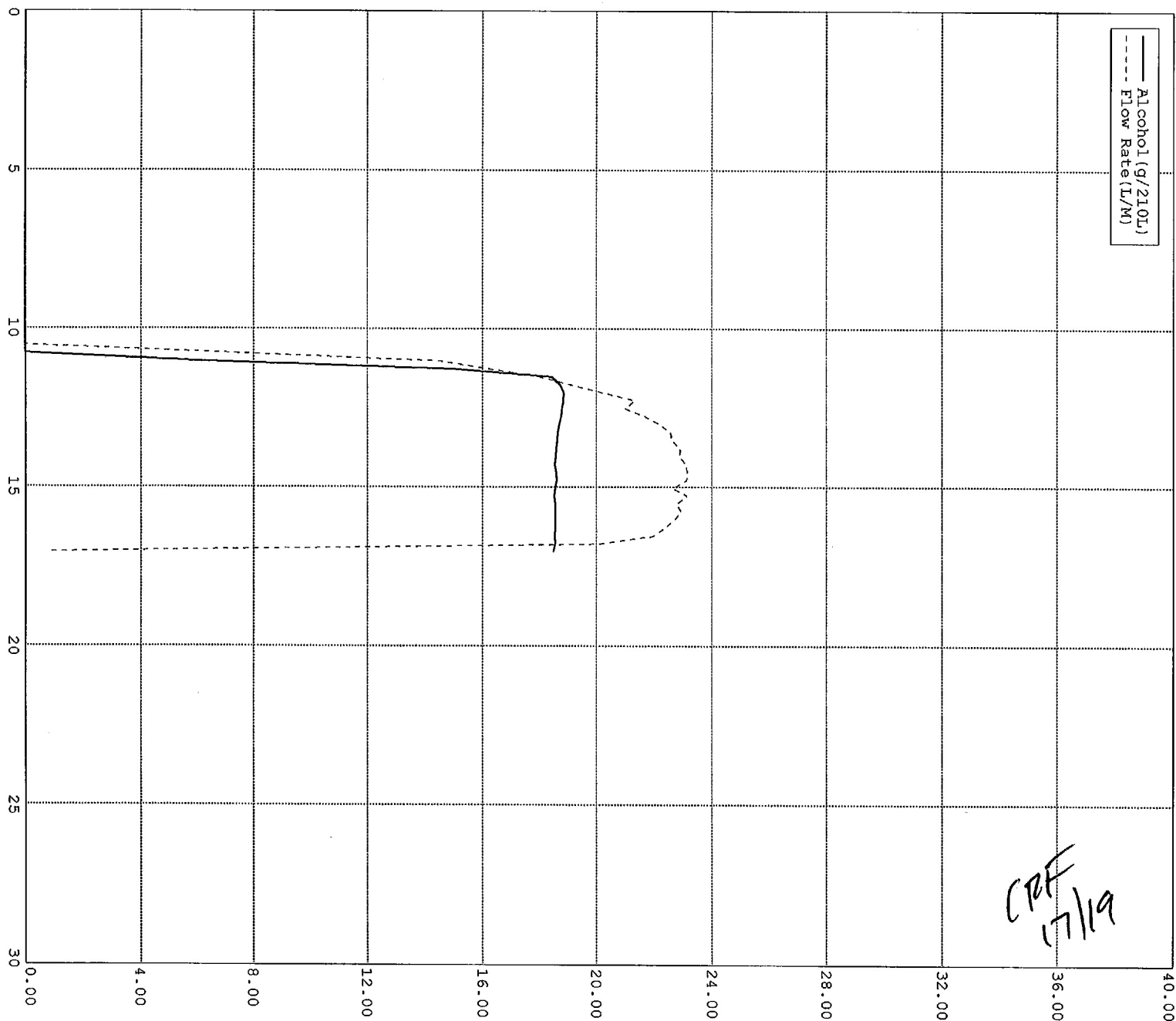
DIAGNOSTIC CHECK	PASSED	11:07
BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:07
Xq = 0.086 (0.82%)		
EXTERNAL STANDARD	0.078	11:07
X[1] = 0.0785 (0.0016)	(0.0022)	
BLANK TEST	0.000	11:08
SUBJECT SAMPLE	INTERFERENCE	11:09
X[1] = 0.0898 (-0.0231)	(0.0012)	



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100675Date: 05/04/2012
Time: 11:20:51SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INTERFERENCE ETOH ONLY
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.69: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

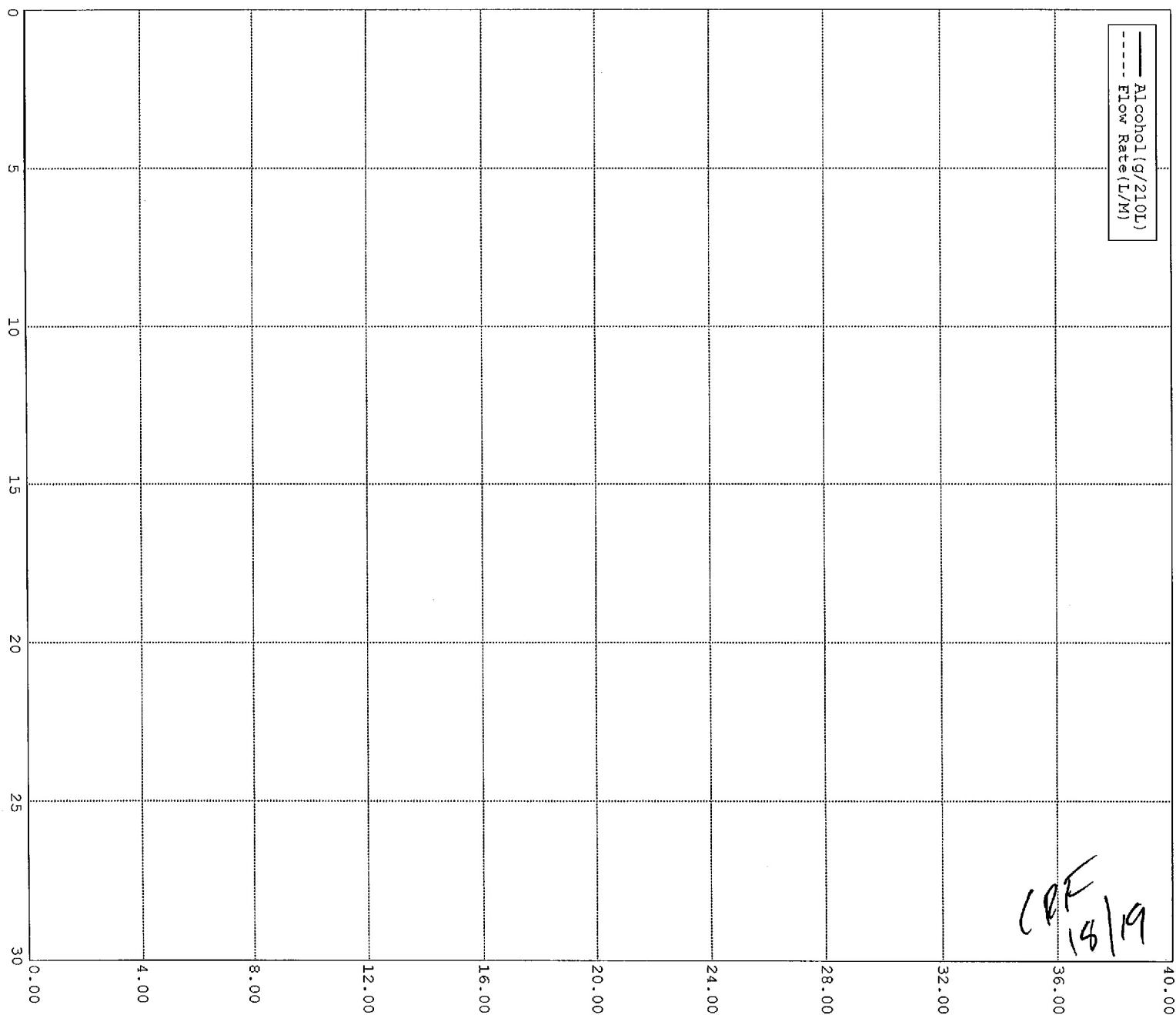
DIAGNOSTIC CHECK	PASSED	11:23
BLANK TEST	0.000	11:23
INTERNAL STANDARD	VERIFIED	11:23
Xq = 0.086 (1.23%)		
EXTERNAL STANDARD	0.078	11:24
X[1] = 0.0789 (0.0017)	(0.0042)	
BLANK TEST	0.000	11:25
SUBJECT SAMPLE (Vol=2.17L)	0.092	11:25
X[1] = 0.0928 (-0.0008)	(0.0026)	
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.078	11:26
X[1] = 0.0781 (0.0012)	(0.0026)	
BLANK TEST	0.000	11:27



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100675Date: 05/04/2012
Time: 11:32:52SUBJECT 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 29.69: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013DIAGNOSTIC CHECK
BLANK TEST PASSED 11:35
INTERNAL STANDARD VERIFIED 11:35
EXTERNAL STANDARD 0.078 11:35
BLANK TEST 0.000 11:36

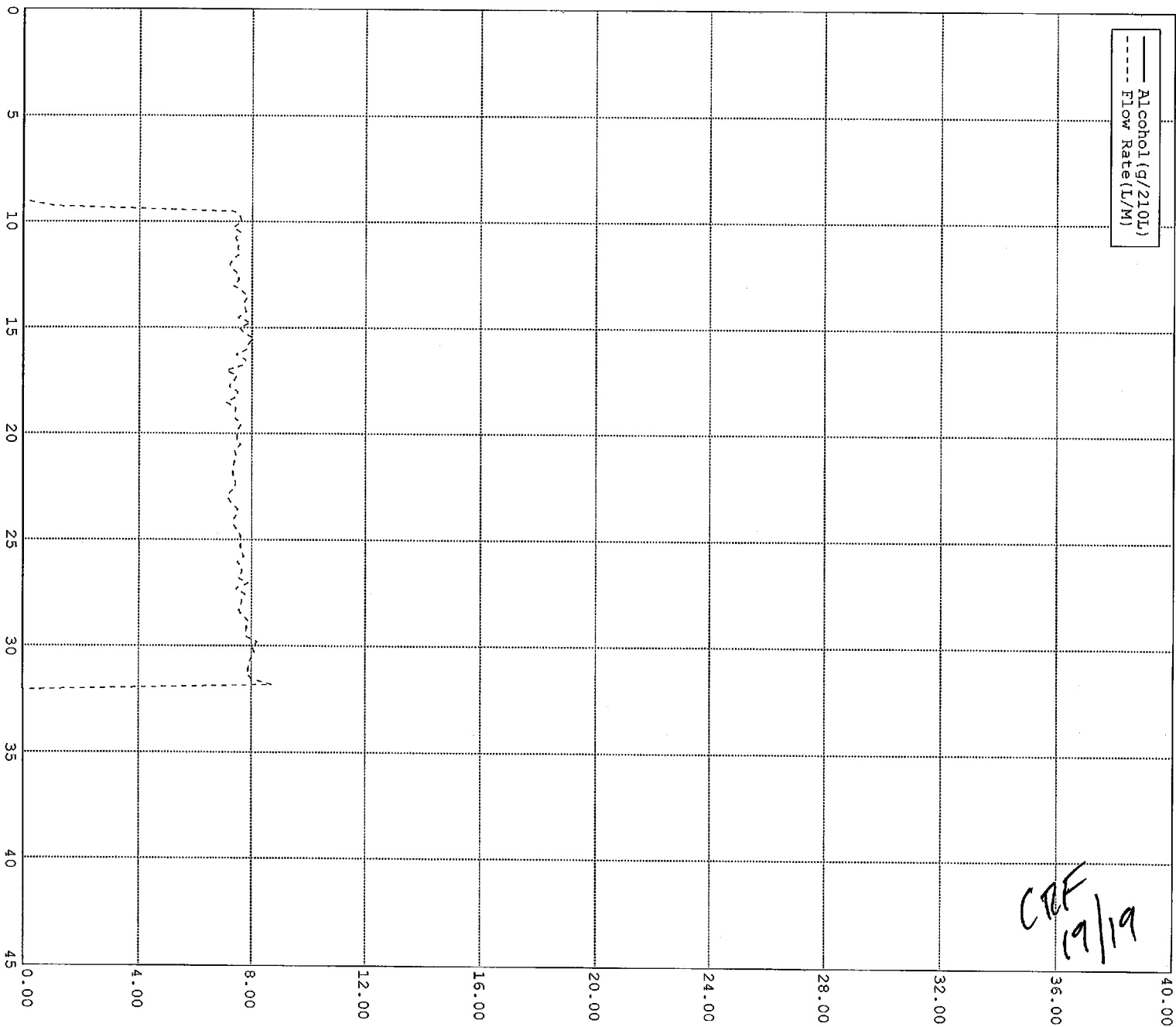
RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100675Date: 05/04/2012
Time: 14:08:12SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.68: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:09
BLANK TEST	0.000	14:09
INTERNAL STANDARD	VERIFIED	14:09
EXTERNAL STANDARD	0.078	14:10
BLANK TEST	0.000	14:11
SUBJECT SAMPLE	0.000	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.078	14:12
BLANK TEST	0.000	14:13



Final page for report

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11/19/2013