

## Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

Issued: 04/04/2012  
Effective: 04/04/2012

Version: DMCEF2012 R1  
Status: Active

Instrument S/N 100673 Analyst CRF Start Date 4/9/12

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 3/1/13

ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13

iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 3/1/13

iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 3/1/13

v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/13

1. Simulator S/N SD1176 Date Calibrated 8/17/11

vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/13

1. 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 10/11/13

1. Simulator S/N SD1199 Date Calibrated 1/11/12

ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/12

1. Simulator S/N DR6267 Date Calibrated 1/10/12

iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/13

1. Simulator S/N SD1202 Date Calibrated 8/17/11

d. 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 4/10/12

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100673  
-----

Date: 04/09/2012  
Time: 15:01:18

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED  
Breath Tube = 48.1°C PASSED

PUMP INFO  
Flow Rate = 5.106 L/M PASSED

DETECTOR INFO  
PUMP ON PASSED  
PUMP OFF PASSED

FILTER INFO  
Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD PASSED

Technician Screen

-----  
DATAMASTER dmt: 100673  
-----

Date: 04/09/2012  
Time: 3:59 PM

Temperatures (°C)

Sample Cell: 48.7°C  
Breath Tube: 48.0°C

Current Barometer 30.0 in  
Volume (Ltr) 1.47

Settings

Lamp: 1.63 V  
Bias: 80 V  
Cooler: 1.68 V  
Chopper: 546 Hz

Voltages (V)

Flow: 1.05 V  
Detector: 0.013 V

CAF  
3/19

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100673  
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Date: 10/27/2011  
Time: 02:04:26

Ca = 0.1000  
CAL = 0.991994 0.800 <= CAL < 1.200  
b1 = 0.0004 0.0000 <= b1 < 0.0040  
b2 = 0.0046 0.0010 <= b2 < 0.0100  
b3 = 0.0001 0.0000 <= b3 < 0.0040  
Xq = 0.0755 0.0500 <= Xq < 0.2000  
a21 = 1.215480 1.050 <= a21 < 1.300  
a31 = 0.457053 0.300 <= a31 < 0.800

CTF  
4/19

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100673

Date: 04/09/2012  
 Time: 16:18:40

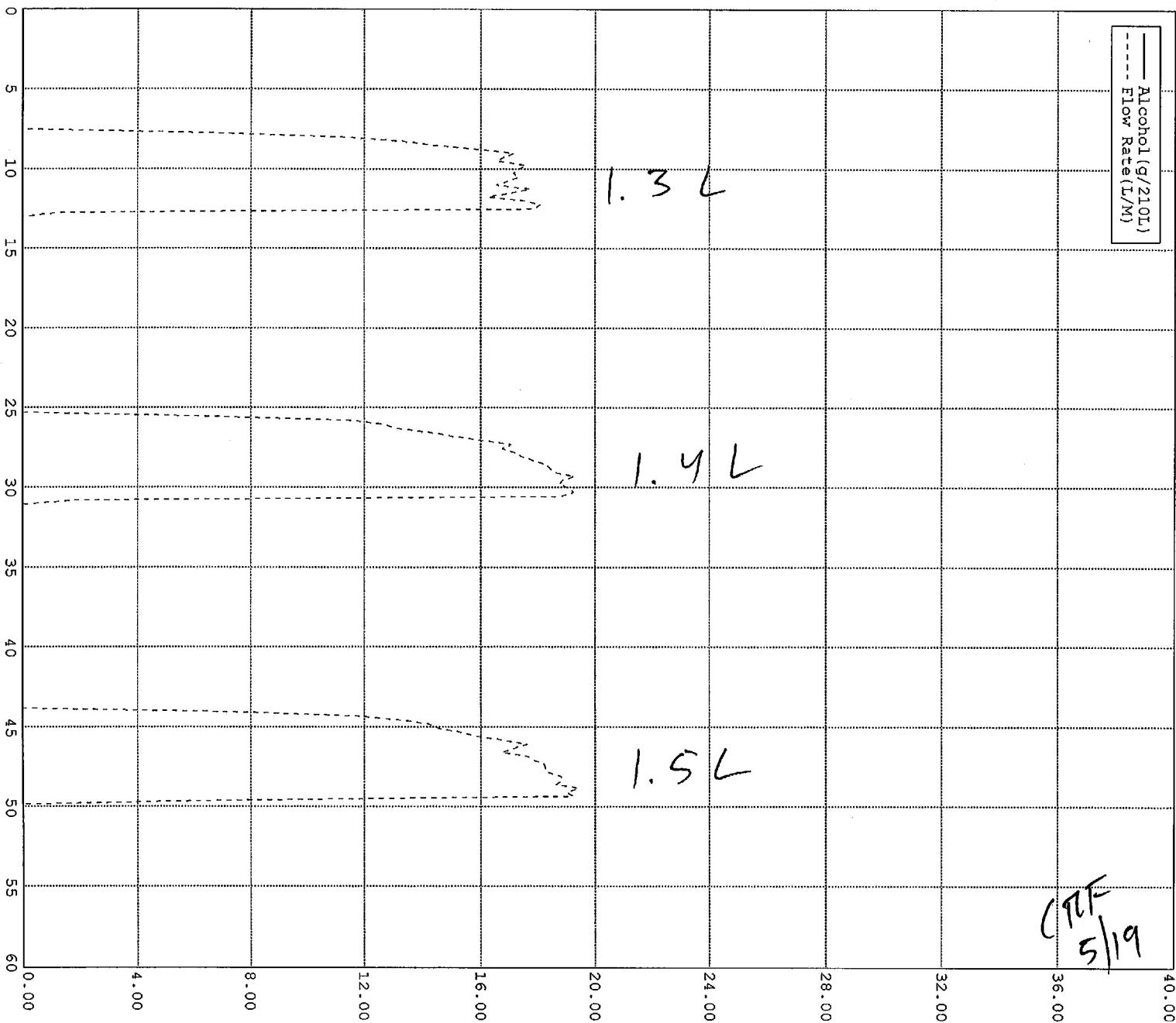
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 MINIMUM VOLUME  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.96: 0.080  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	16:19
BLANK TEST	0.000	16:19
INTERNAL STANDARD	VERIFIED	16:19
EXTERNAL STANDARD	0.079	16:20
BLANK TEST	0.000	16:21
SUBJECT SAMPLE	0.000	16:22
BLANK TEST	0.000	16:22
EXTERNAL STANDARD	0.080	16:23
BLANK TEST	0.000	16:24



LINEARITY CHECK

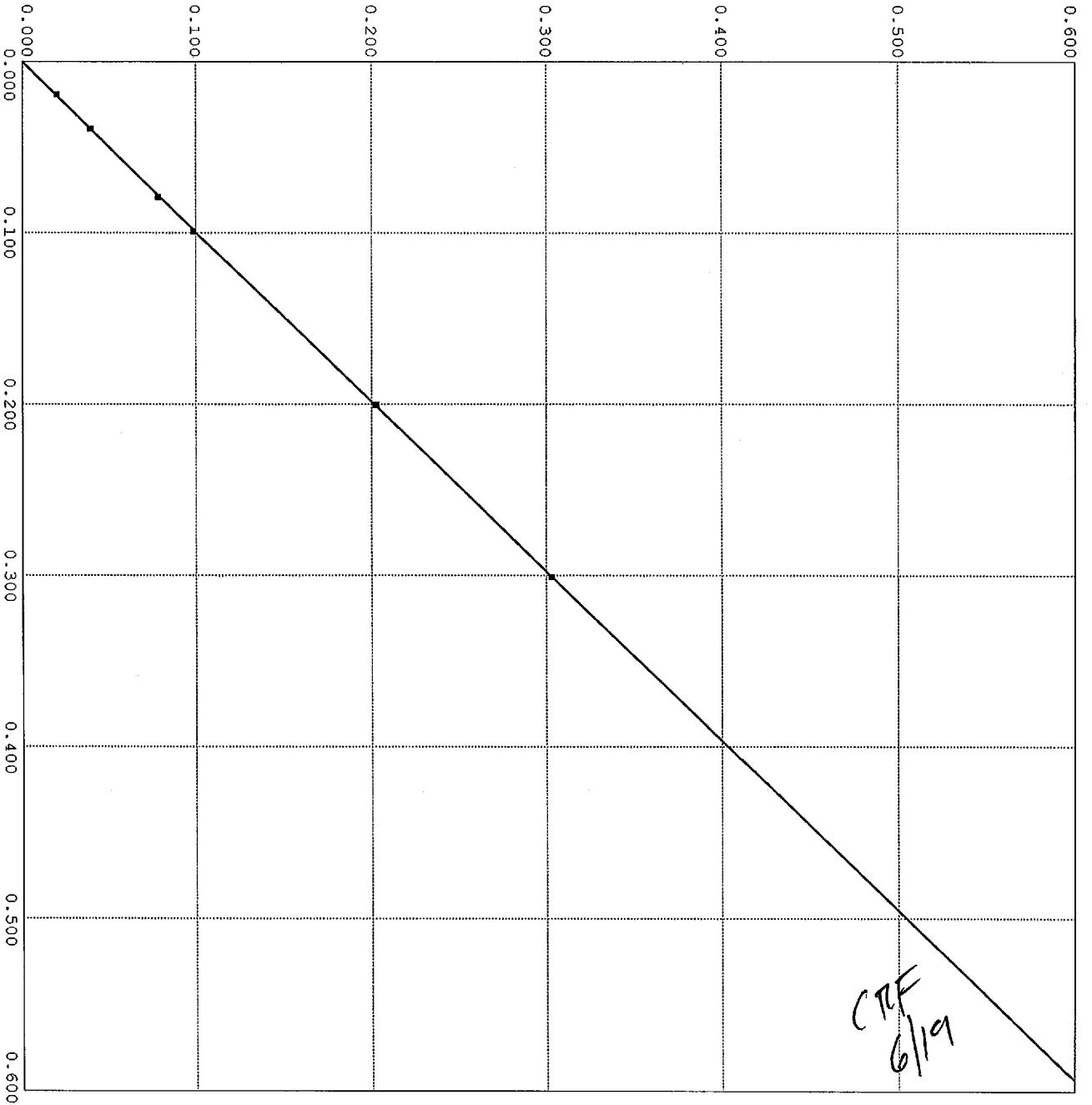
Alaska Department of Public Safety  
 DATAMASTER dmt: 100673

Date: 04/10/2012  
 Time: 09:24:35

SUPERVISOR NAME:  
 CHARLES FOSTER  
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0203	0.0003
0.039	0.0399	0.0001
0.079	0.0792	0.0001
0.099	0.0994	0.0002
0.200	0.2034	0.0007
0.300	0.3035	0.0005

SLOPE = 1.011548  
 R<sup>2</sup> = 0.999945



LINEARITY CHECK: Control Test 1

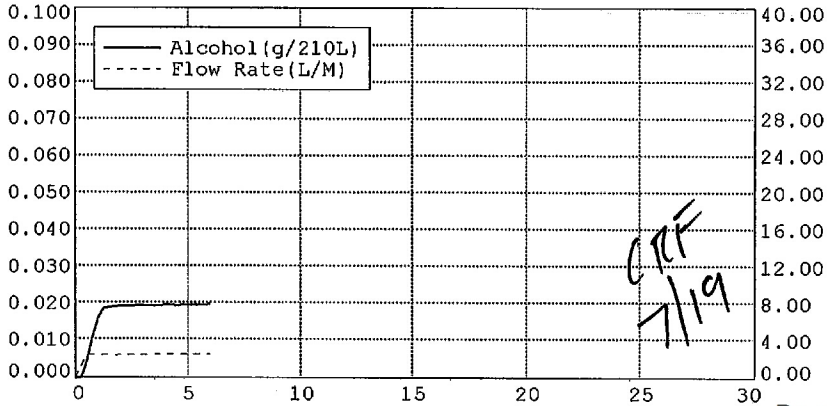
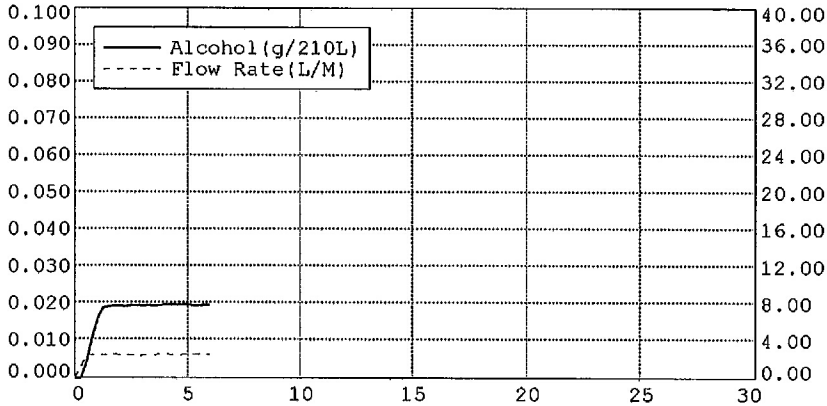
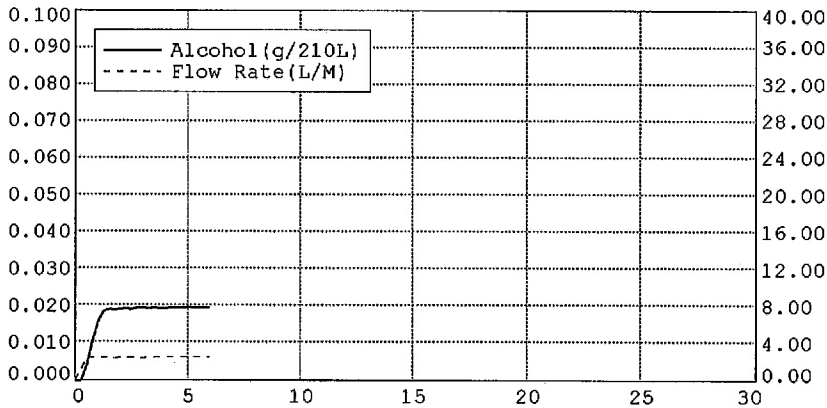
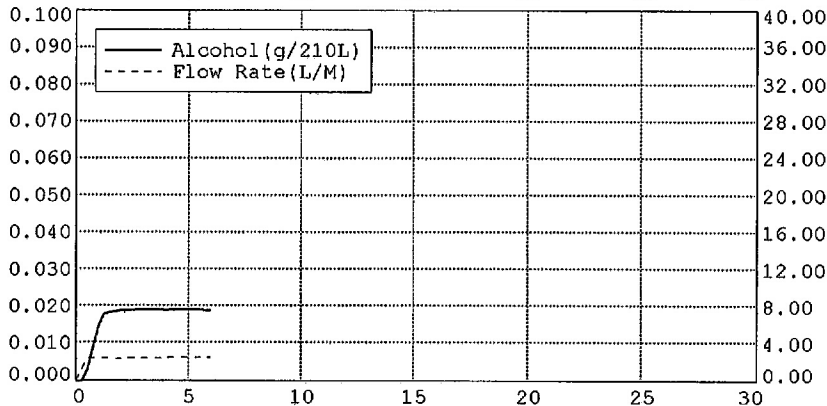
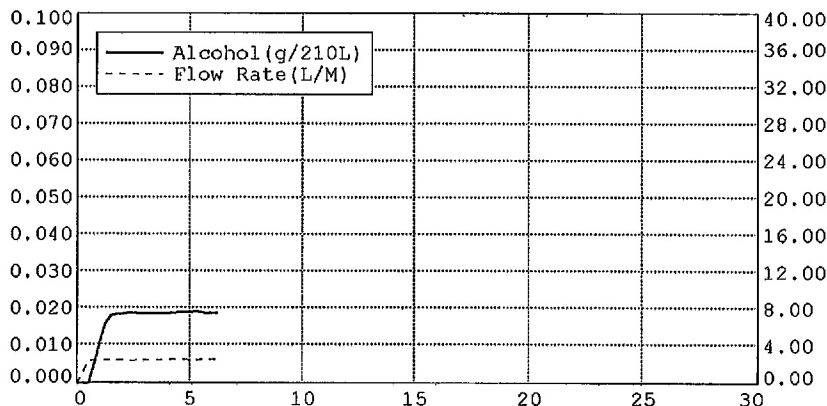
Alaska Department of Public Safety  
 DATAMASTER dmt: 100673

Date: 04/10/2012  
 Time: 09:24:36

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 29.76; 0.019  
 LOT #: 07611020A5  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:25
INTERNAL STANDARD	VERIFIED	09:25
EXTERNAL STANDARD	0.019	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.020	09:27
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.020	09:28
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.020	09:29
BLANK TEST	0.000	09:30
EXTERNAL STANDARD	0.020	09:30
BLANK TEST	0.000	09:31

Average = 0.0203  
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

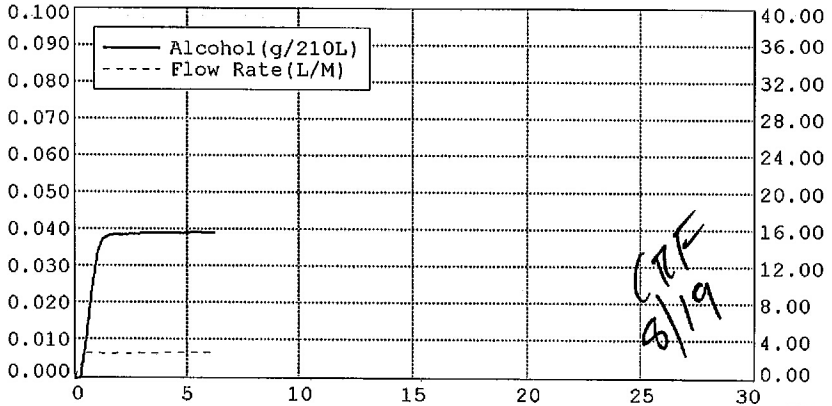
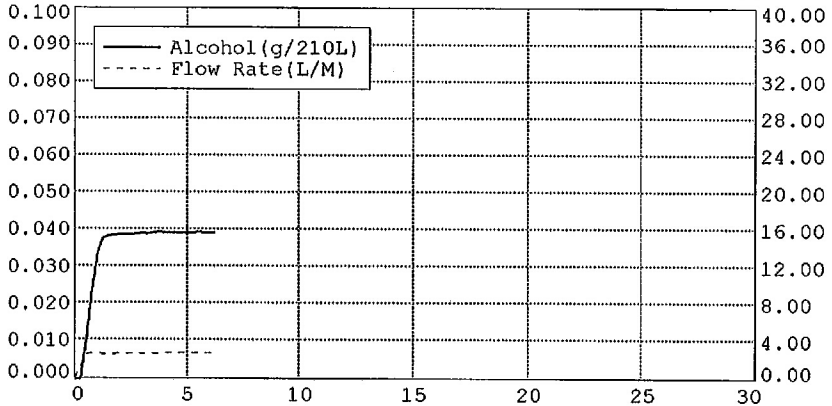
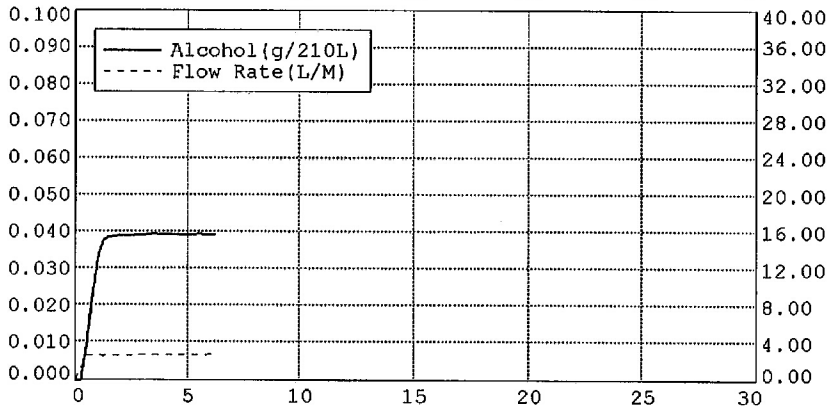
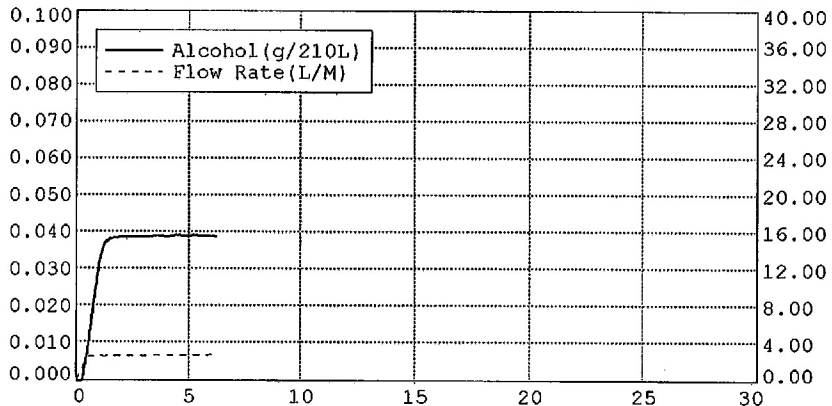
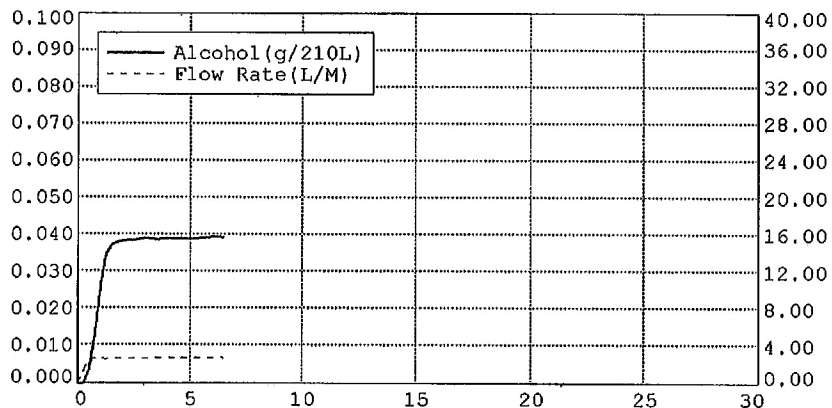
Alaska Department of Public Safety  
 DATAMASTER dmt: 100673

Date: 04/10/2012  
 Time: 09:36:36

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.040  
 TARGET AT 29.75: 0.039  
 LOT #: 07611040A4  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:37
INTERNAL STANDARD	VERIFIED	09:37
EXTERNAL STANDARD	0.039	09:38
BLANK TEST	0.000	09:39
EXTERNAL STANDARD	0.039	09:39
BLANK TEST	0.000	09:40
EXTERNAL STANDARD	0.040	09:40
BLANK TEST	0.000	09:41
EXTERNAL STANDARD	0.040	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.039	09:42
BLANK TEST	0.000	09:43

Average = 0.0399  
 Std Dev = 0.0001





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dmt: 100673

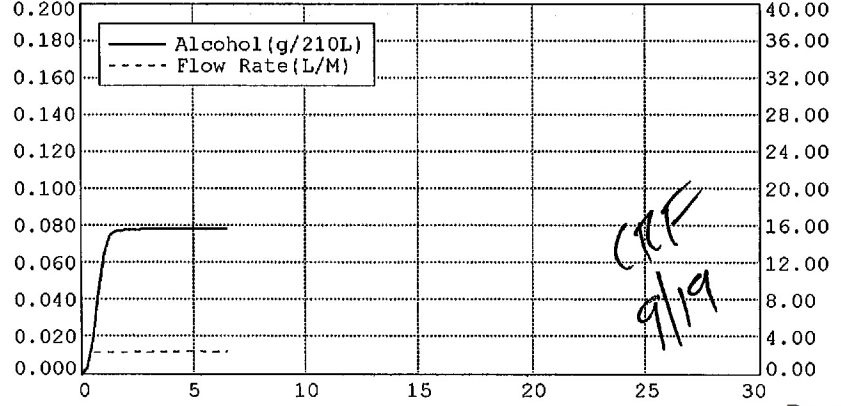
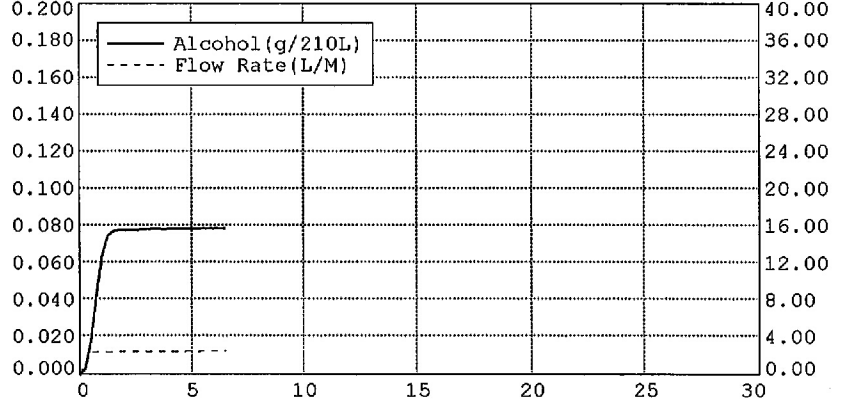
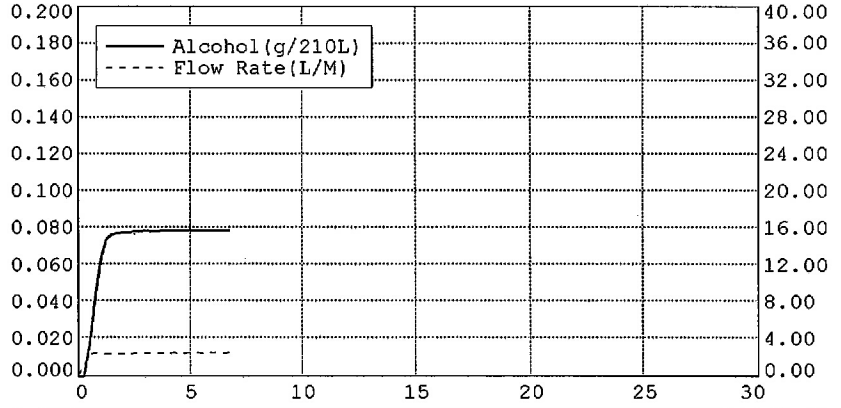
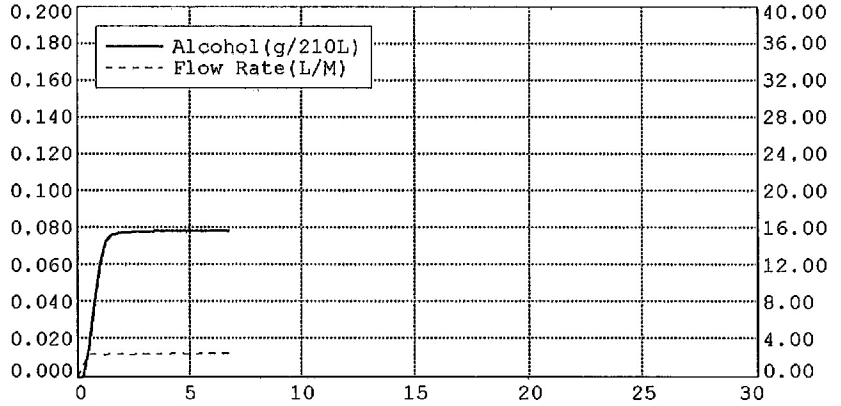
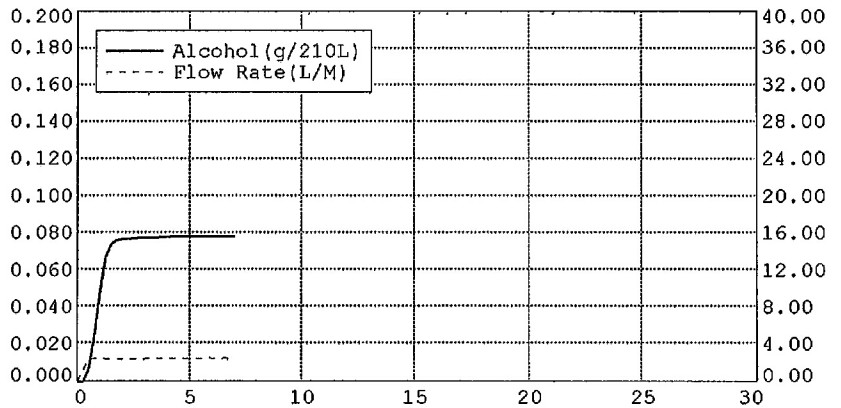
Date: 04/10/2012  
 Time: 09:47:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.76: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:48
INTERNAL STANDARD	VERIFIED	09:48
EXTERNAL STANDARD	0.079	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.079	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.079	09:51
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.079	09:52
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.079	09:53
BLANK TEST	0.000	09:54

Average = 0.0792  
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

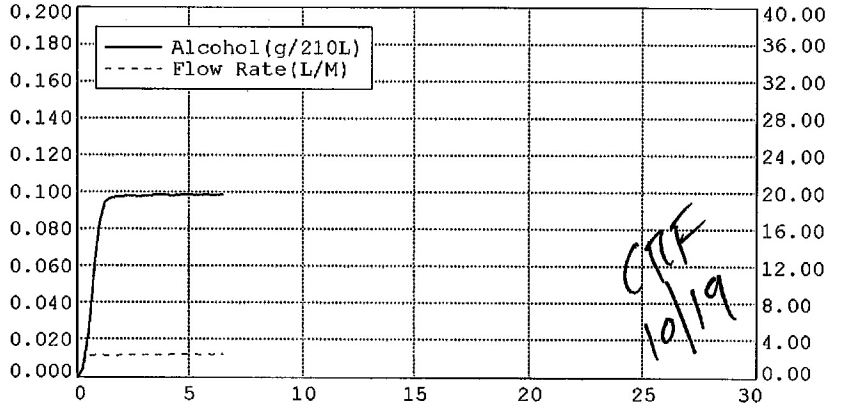
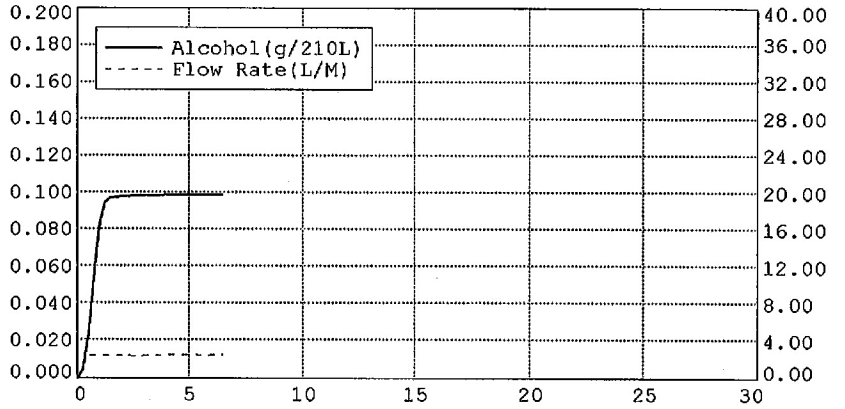
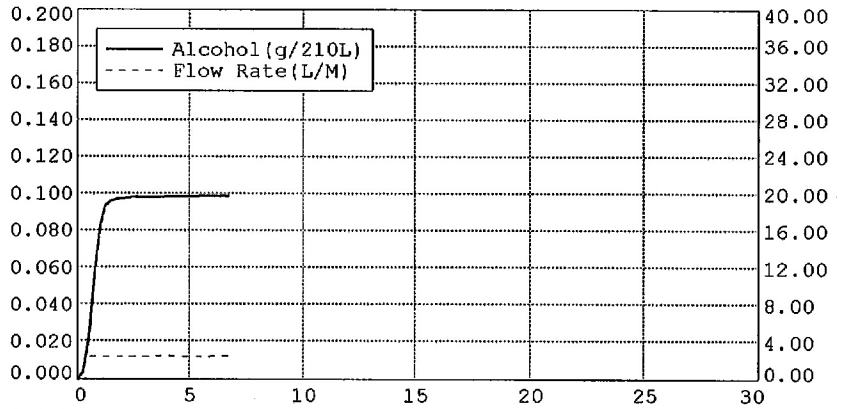
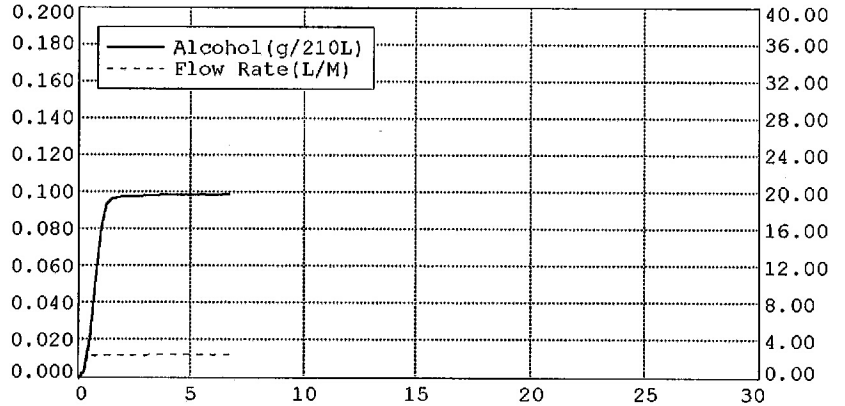
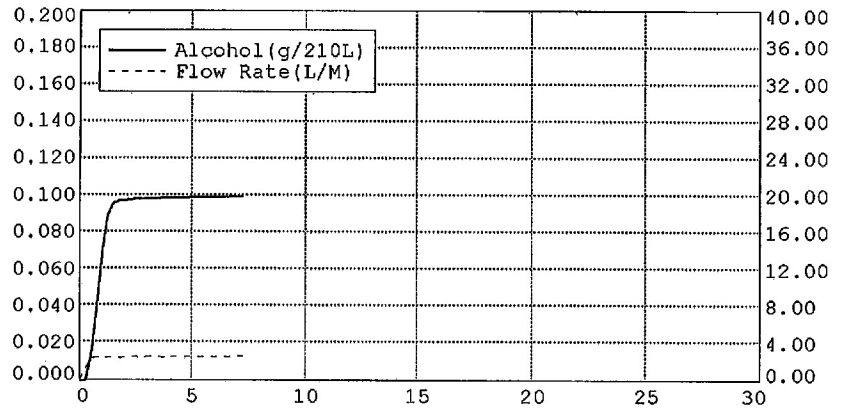
Alaska Department of Public Safety  
 DATAMASTER dmt: 100673

Date: 04/10/2012  
 Time: 09:57:36

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.100  
 TARGET AT 29.75: 0.099  
 LOT #: 07611100A3  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:58
INTERNAL STANDARD	VERIFIED	09:58
EXTERNAL STANDARD	0.099	09:59
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.099	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.099	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.099	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.099	10:03
BLANK TEST	0.000	10:04

Average = 0.0994  
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

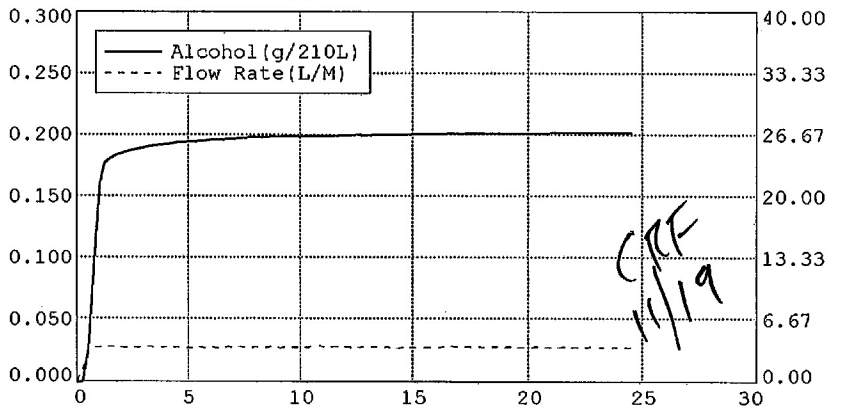
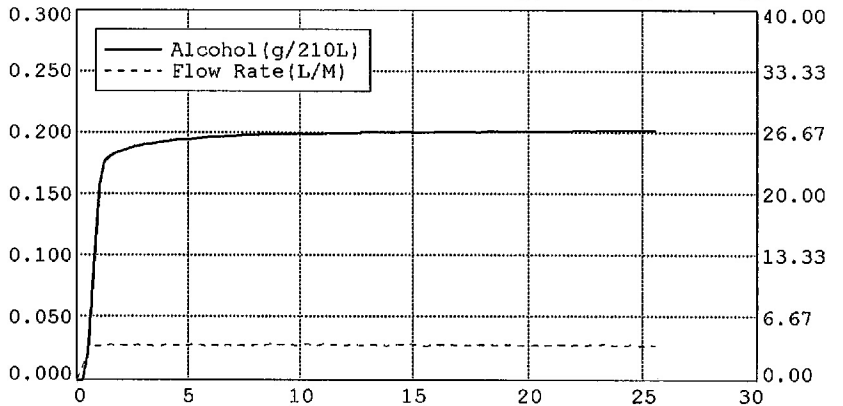
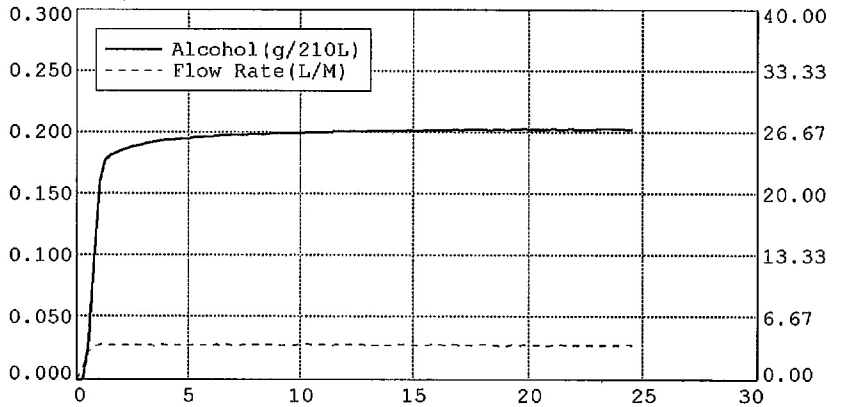
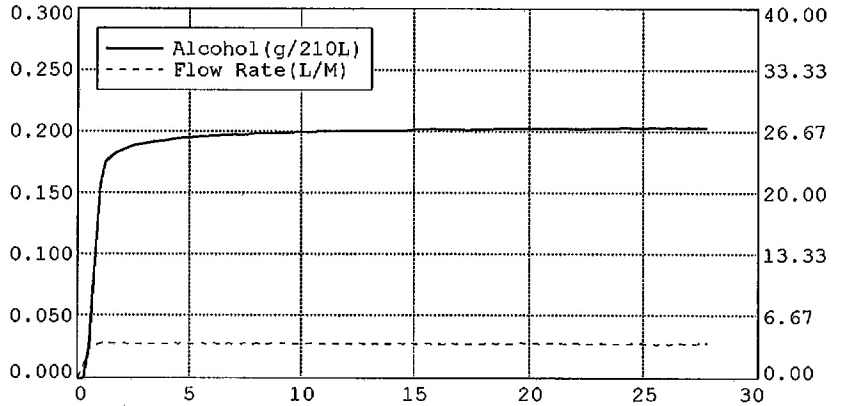
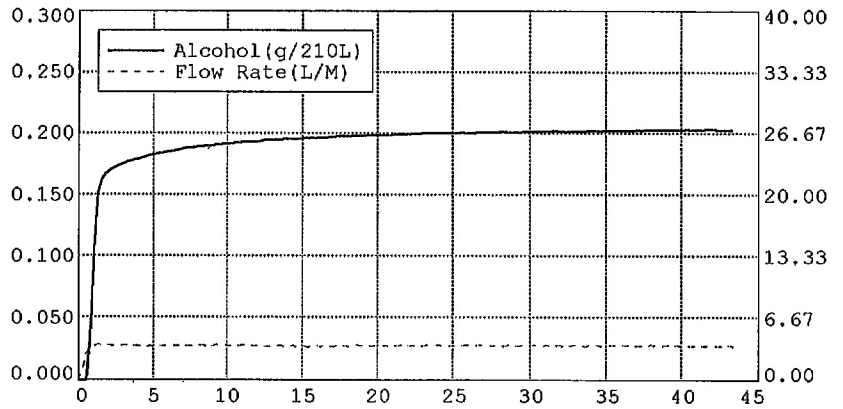
Alaska Department of Public Safety  
 DATAMASTER dmt: 100673

Date: 04/10/2012  
 Time: 10:08:33

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.200  
 LOT #: 11120  
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	10:09
INTERNAL STANDARD	VERIFIED	10:09
EXTERNAL STANDARD	0.203	10:10
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.204	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.203	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.202	10:15
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.202	10:16
BLANK TEST	0.000	10:17

Average = 0.2034  
 Std Dev = 0.0007



## LINEARITY CHECK: Control Test 6

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 Alaska Department of Public Safety  
 DATAMASTER dmt: 100673  
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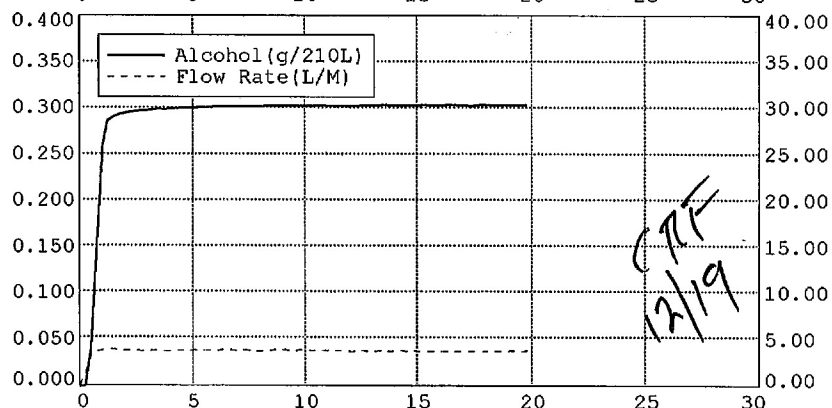
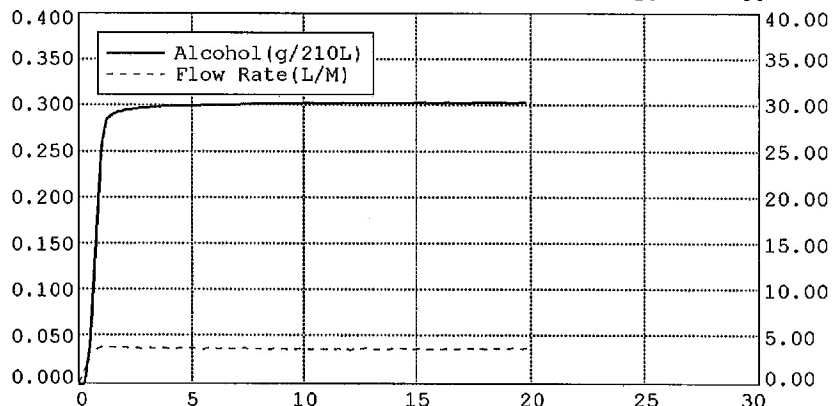
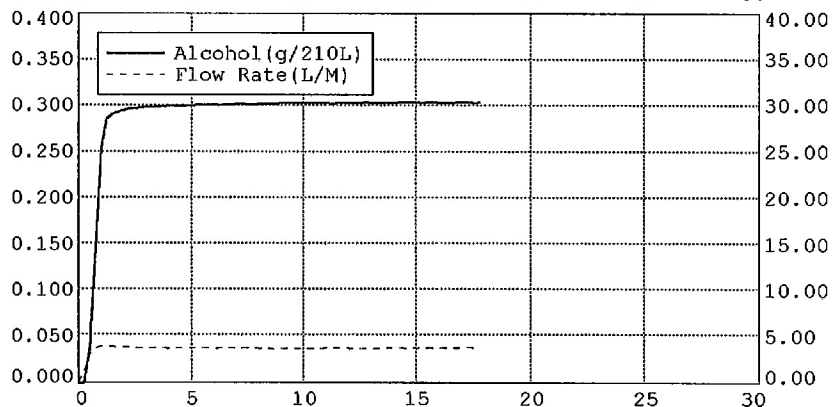
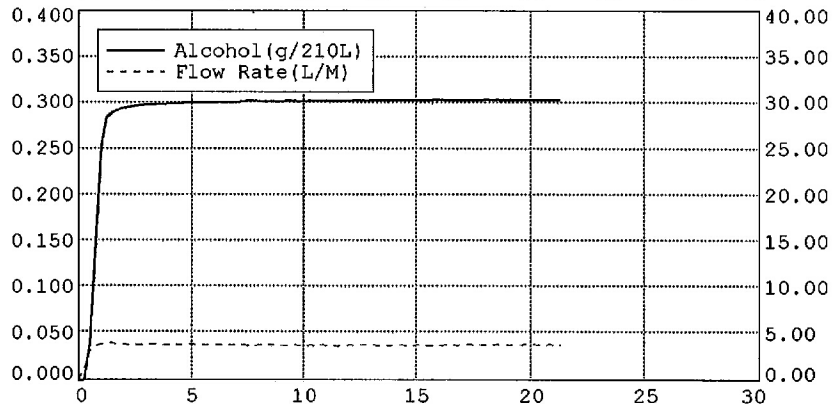
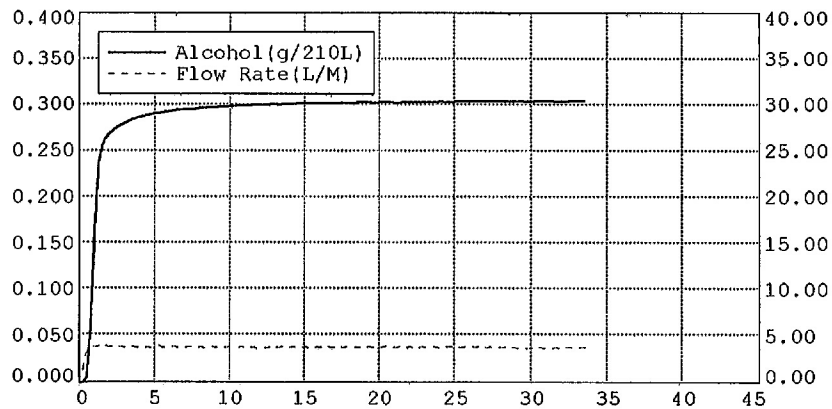
Date: 04/10/2012  
 Time: 10:19:03

## EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	10:20
INTERNAL STANDARD	VERIFIED	10:20
EXTERNAL STANDARD	0.304	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.303	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.303	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.303	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.303	10:26
BLANK TEST	0.000	10:27

Average = 0.3035  
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100673

Date: 04/10/2012  
Time: 10:35:06

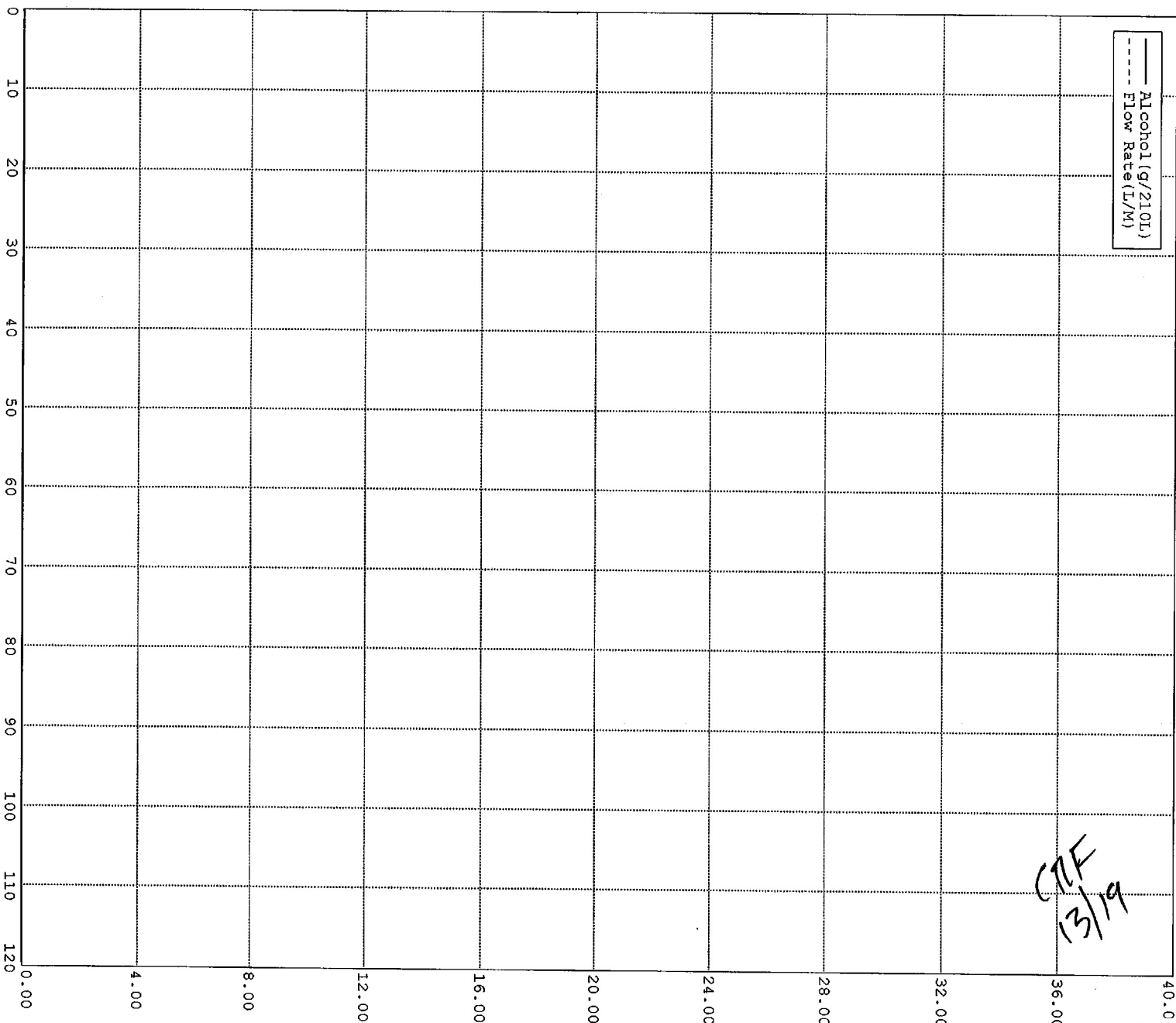
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
INCOMPLETE XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.75: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:36
BLANK TEST	0.000	10:36
INTERNAL STANDARD	VERIFIED	10:36
EXTERNAL STANDARD	0.078	10:36
BLANK TEST	0.000	10:37
SUBJECT SAMPLE	INCOMPLETE	10:39



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100673

Date: 04/10/2012  
 Time: 10:43:58

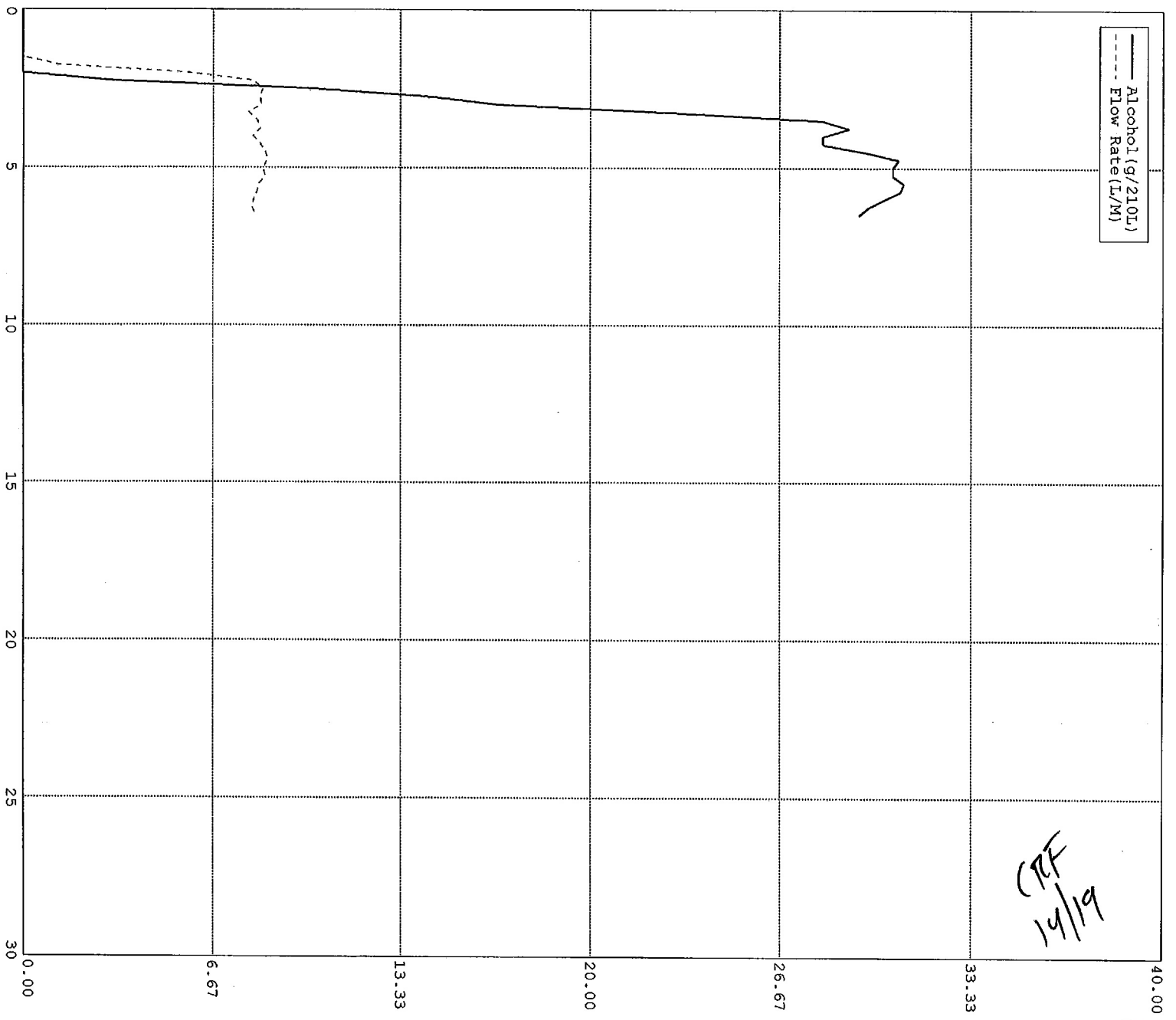
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

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 29.75: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:47
BLANK TEST	0.000	10:48
INTERNAL STANDARD	VERIFIED	10:48
EXTERNAL STANDARD	0.079	10:48
BLANK TEST	0.000	10:49
SUBJECT SAMPLE	INVALID	10:49



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100673

Date: 04/10/2012  
 Time: 11:22:24

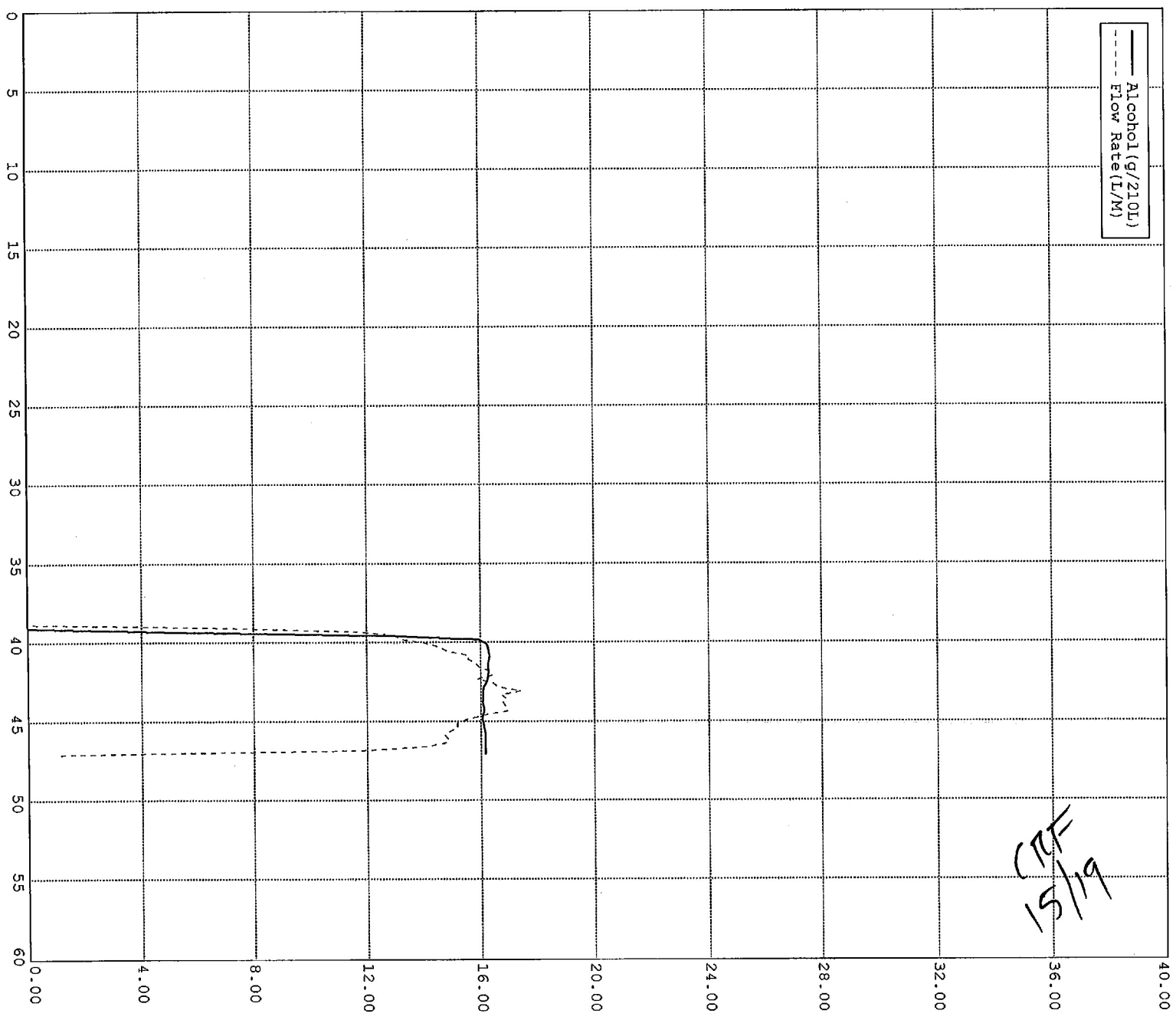
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 INTERPERENCE FTOH AND ACETONE  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.75: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:27
BLANK TEST	0.000	11:27
INTERNAL STANDARD	VERIFIED	11:28
Xg = 0.076 (0.34%)		
EXTERNAL STANDARD	0.079	11:28
X[1] = 0.0793 (0.0002) (0.0030)		
BLANK TEST	0.000	11:29
SUBJECT SAMPLE	INTERPERENCE	11:30
X[1] = 0.0816 (-0.0139) (0.0012)		



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100673

Date: 04/10/2012  
 Time: 11:43:38

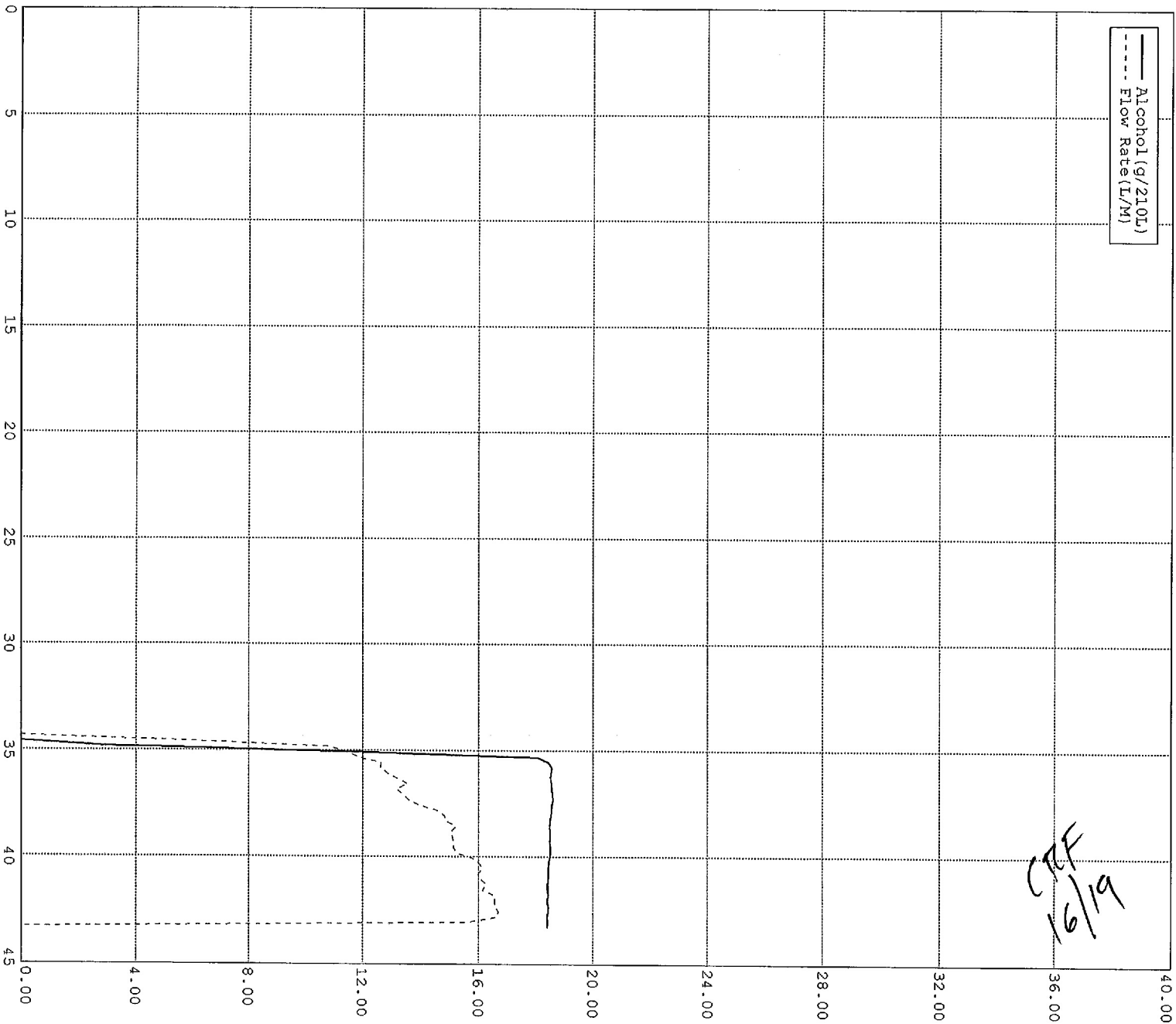
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

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 29.74: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:46
BLANK TEST	0.000	11:46
INTERNAL STANDARD	VERIFIED	11:46
Xq = 0.076 (0.11%)		
EXTERNAL STANDARD	0.079	11:46
X[1] = 0.0792 (0.0003)	(0.0036)	
BLANK TEST	0.000	11:47
SUBJECT SAMPLE	INTERFERENCE	11:48
X[1] = 0.0926 (-0.0281)	(0.0019)	





SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100673

Date: 04/10/2012  
Time: 13:41:33

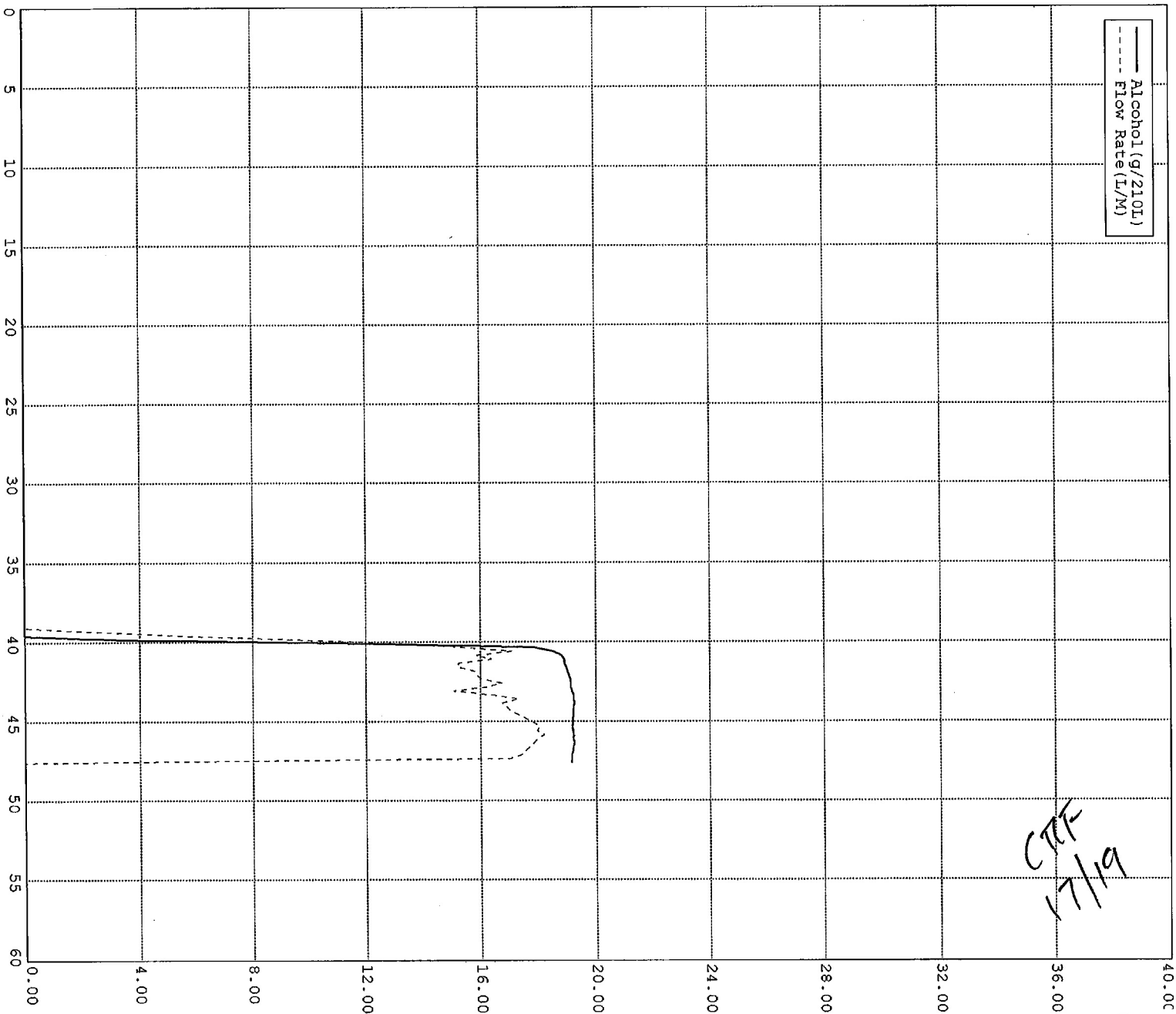
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
INTERFERENCE ETOH ONLY  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.70: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:47
BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:47
Xd = 0.076 (0.11%)		
EXTERNAL STANDARD	0.079	13:47
X[1] = 0.0791 (0.0002)	(0.0025)	
BLANK TEST	0.000	13:48
SUBJECT SAMPLE (Vol=2.15L)	0.096	13:49
X[1] = 0.0966 (-0.0012)	(0.0004)	
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.078	13:50
X[1] = 0.0785 (0.0005)	(0.0026)	
BLANK TEST	0.000	13:51



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100673

Date: 04/10/2012  
Time: 13:58:06

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

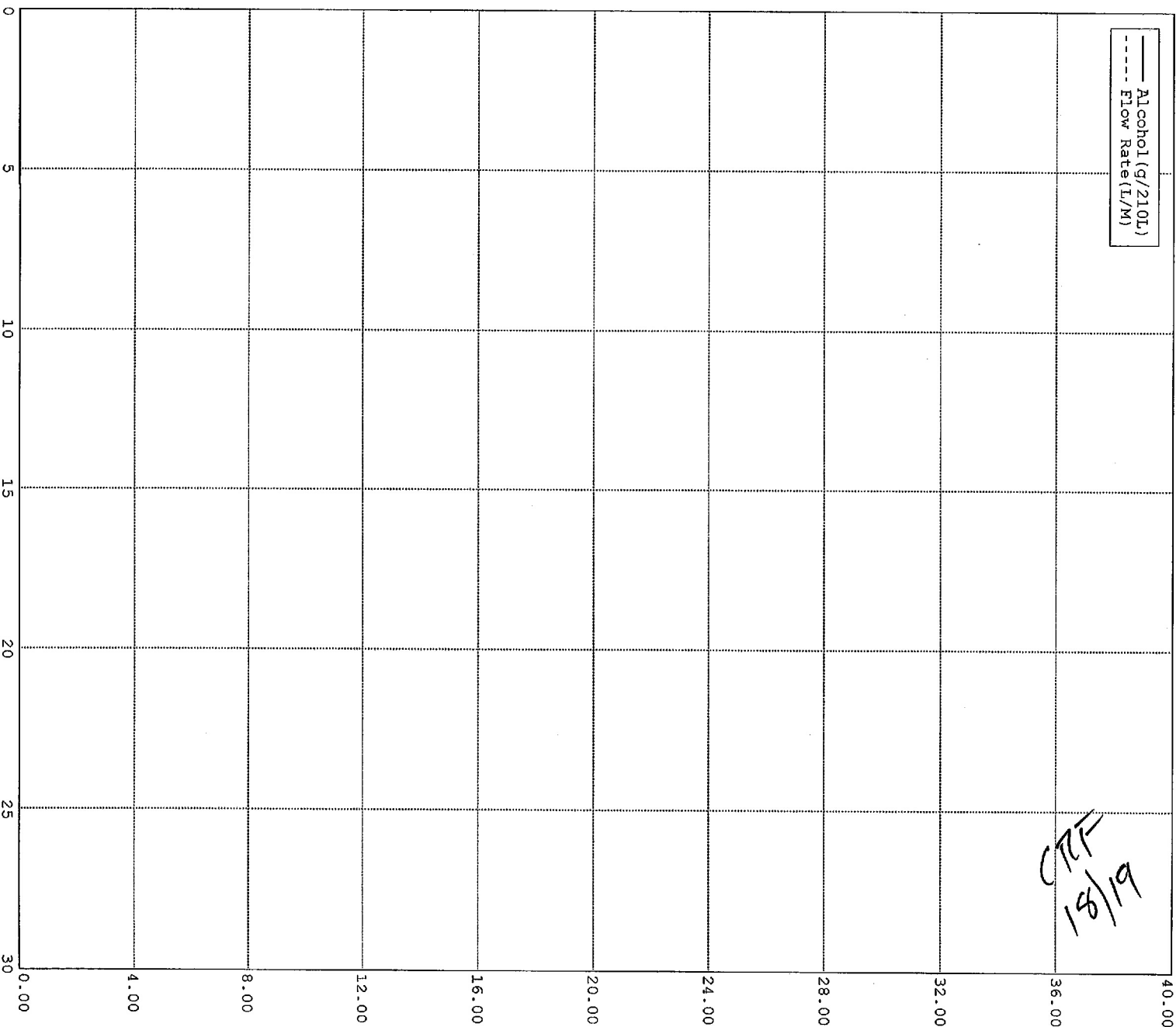
OPERATOR NAME:  
RFI XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.71: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:00
BLANK TEST	0.000	14:00
INTERNAL STANDARD	VERIFIED	14:00
EXTERNAL STANDARD	0.078	14:00
BLANK TEST	0.000	14:01

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100673

Date: 04/10/2012  
Time: 14:33:21

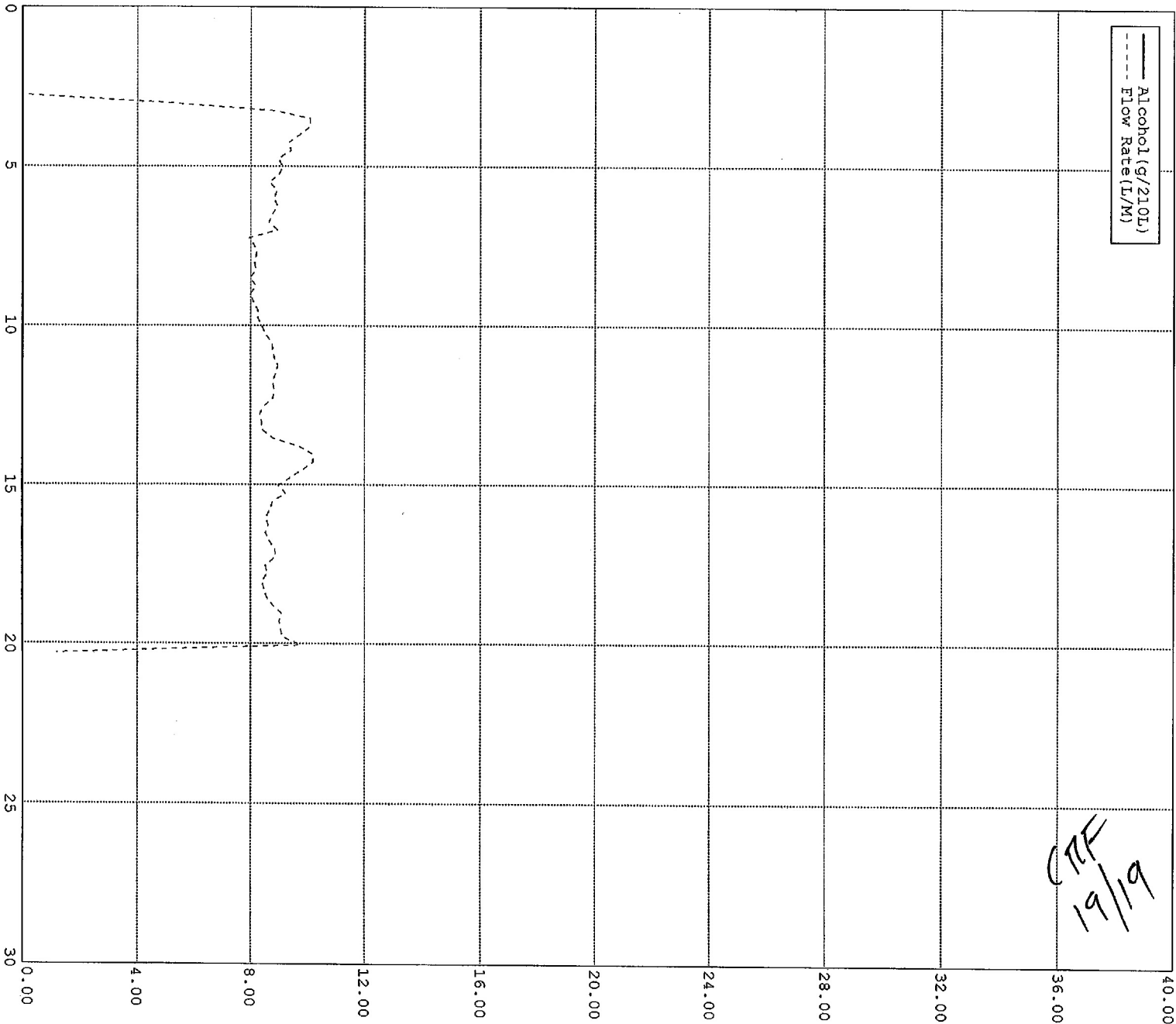
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CHARLES FOSTER  
OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.69: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:35
BLANK TEST	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:36
EXTERNAL STANDARD	0.079	14:36
BLANK TEST	0.000	14:37
SUBJECT SAMPLE	0.000	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.079	14:38
BLANK TEST	0.000	14:39



Final page for report

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11/19/2013