

## Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

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

Version: DMCEF2012 R1  
Status: Active

Instrument S/N 100344 Analyst CRF Start Date 9/12/11  
Diagnostic Test (attached)  12 CRF

## 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 1400 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 02012080A1 Exp 3/1/14  
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 DR4178 Date Calibrated 2/21/12  
vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/13  
1. Simulator S/N SD1198 Date Calibrated 1/10/12

## 5. Functional Tests (attached)

- a. Incomplete  b. Invalid   
c. Interference

- i. Acetone - Mnf Guth Lot 11250 Level 0.10 Exp 12/6/13  
1. Simulator S/N SD1199 Date Calibrated 1/11/12  
ii. Isopropanol - Mnf Guth Lot 11100 Level 0.10 Exp 7/6/13  
1. Simulator S/N DR6267 Date Calibrated 1/10/12  
iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13  
1. Simulator S/N DR4176 Date Calibrated 2/21/12

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  W/A

End Date 9/13/12

All printed copies are uncontrolled.

Page 1 of 1

Approved by Forensic Alcohol Supervisor 1/19 WF

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100344  
-----

Date: 09/12/2012  
Time: 09:11:41

VERSIONS

DMT: 2.00  
PIC: 3.02  
Modem: 2.3  
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.1°C PASSED  
Breath Tube = 44.8°C PASSED

PUMP INFO

Flow Rate = 5.850 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

2/19  
WF

Technician Screen

-----  
DATAMASTER dmt: 100344  
-----

Date: 09/12/2012  
Time: 9:44 AM

Temperatures (°C)  
Sample Cell: 48.7°C  
Breath Tube: 44.3°C

Current Barometer 29.5 in  
Volume (Ltr) 1.52

Settings  
Lamp: 2.14 V  
Bias: 80 V  
Cooler: 1.99 V  
Chopper: 528 Hz

Voltages (V)  
Flow: 1.09 V  
Detector: -0.020 V

3/19  
WF

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100344  
-----

Date: 03/22/2011  
Time: 11:59:47

OPERATOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 6237

LOT #: GUTH100  
BOTTLE #: 9380  
EXPIRATION: 12/17/2011

Ca = 0.1000  
CAL = 0.994117    0.800 <= CAL < 1.200  
b1 = 0.0004    0.0000 <= b1 < 0.0040  
b2 = 0.0039    0.0010 <= b2 < 0.0100  
b3 = 0.0002    0.0000 <= b3 < 0.0040  
Xq = 0.1044    0.0500 <= Xq < 0.2000  
a21 = 1.098703    1.050 <= a21 < 1.300  
a31 = 0.581935    0.300 <= a31 < 0.800

4/19  
WF



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100344

Date: 09/12/2012  
 Time: 10:47:54

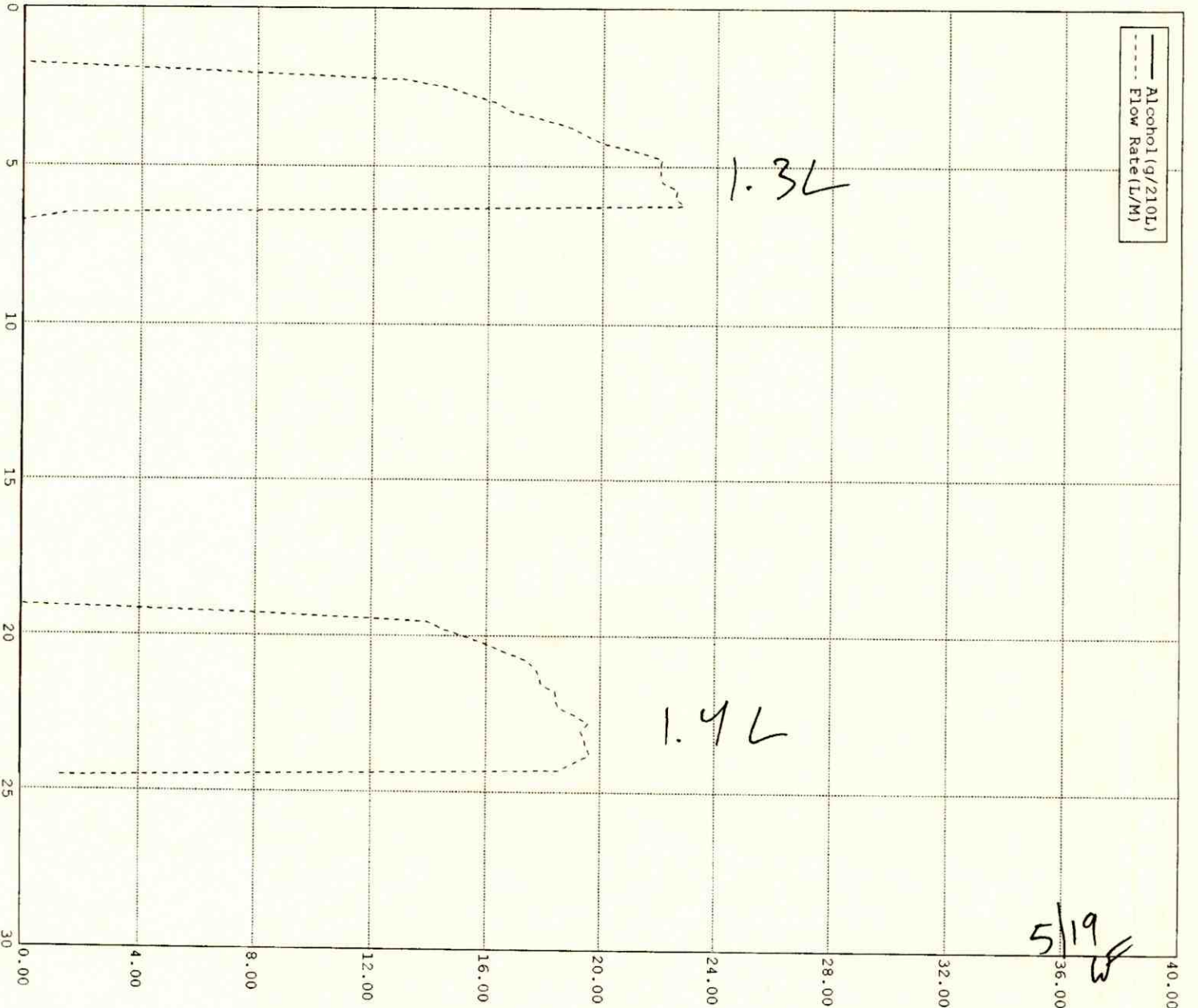
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 MINIMUM VOLUME  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.46: 0.078  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:49
BLANK TEST	0.000	10:49
INTERNAL STANDARD	VERIFIED	10:49
EXTERNAL STANDARD	0.076	10:49
BLANK TEST	0.000	10:50
SUBJECT SAMPLE	0.000	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.076	10:52
BLANK TEST	0.000	10:52



LINEARITY CHECK

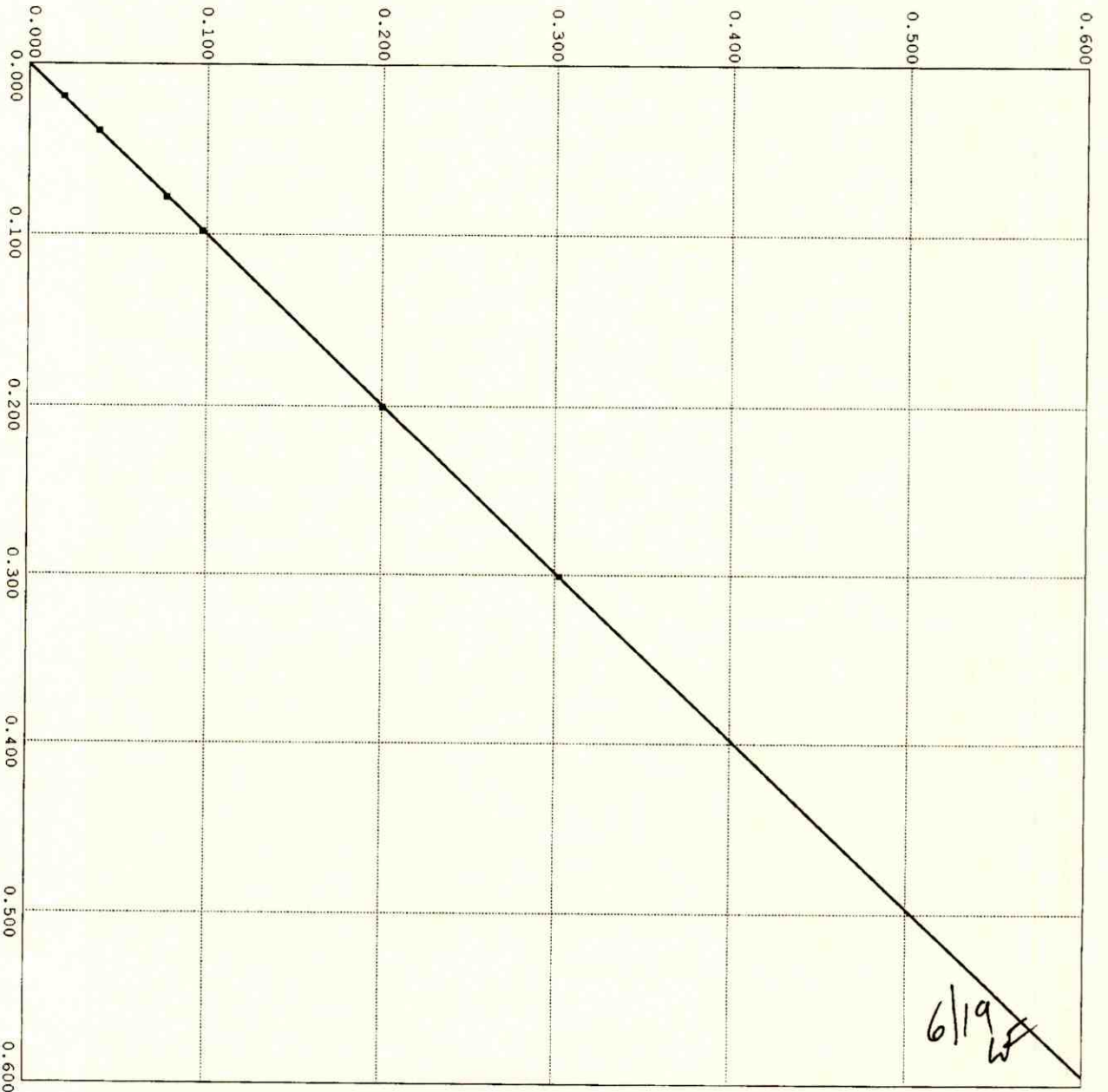
Alaska Department of Public Safety  
DATAMASTER dmt: 100344

Date: 09/12/2012  
Time: 12:57:46

SUPERVISOR NAME:  
CHARLES FOSTER  
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0201	0.0002
0.039	0.0401	0.0002
0.078	0.0783	0.0002
0.098	0.0984	0.0001
0.200	0.2013	0.0003
0.300	0.3034	0.0002

SLOPE = 1.008497  
R<sup>2</sup> = 0.999959





LINEARITY CHECK: Control Test 1

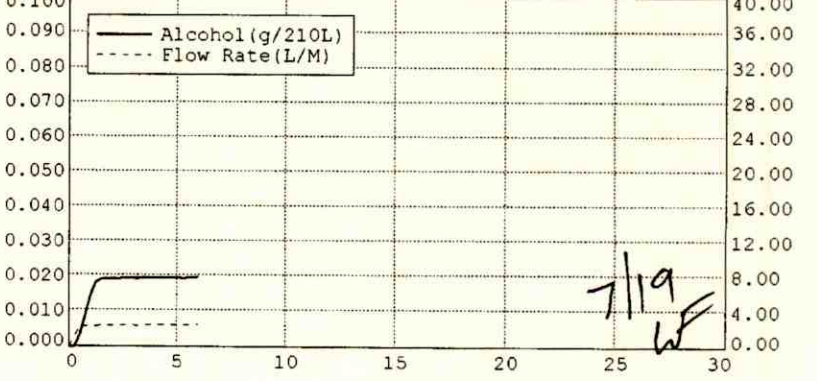
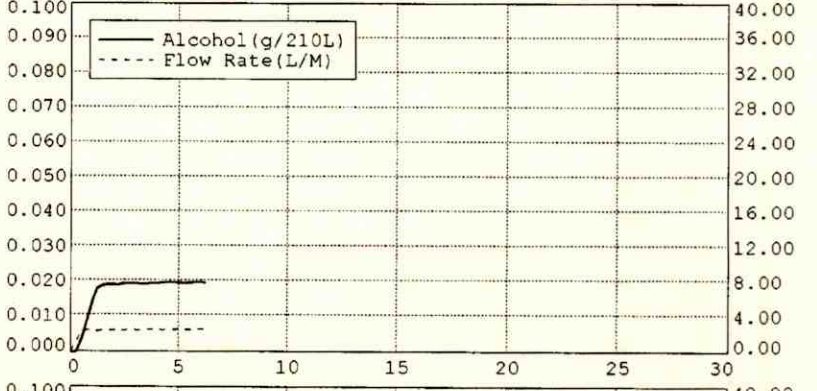
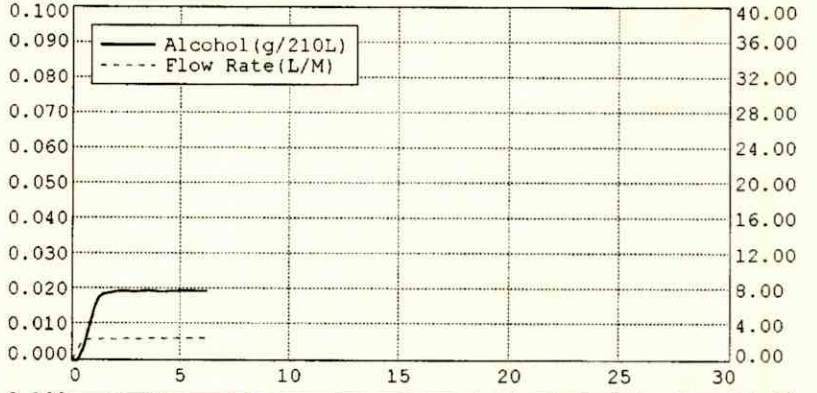
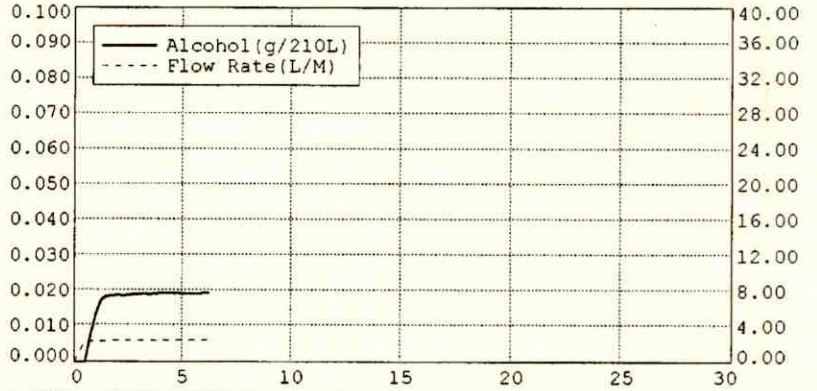
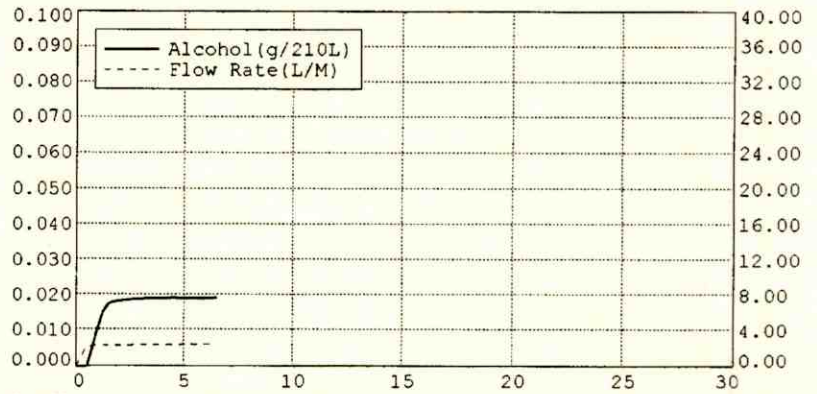
Alaska Department of Public Safety  
 DATAMASTER dmt: 100344

Date: 09/12/2012  
 Time: 12:57:47

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 29.47: 0.019  
 LOT #: 07611020A5  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:59
INTERNAL STANDARD	VERIFIED	12:59
EXTERNAL STANDARD	0.019	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.020	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.020	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.020	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.020	13:03
BLANK TEST	0.000	13:04

Average = 0.0201  
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100344

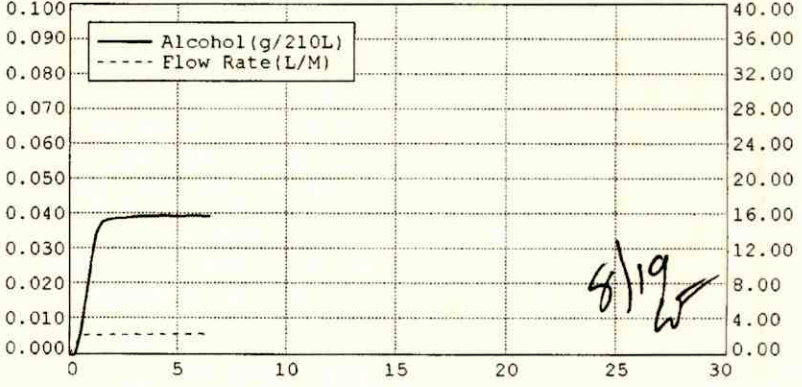
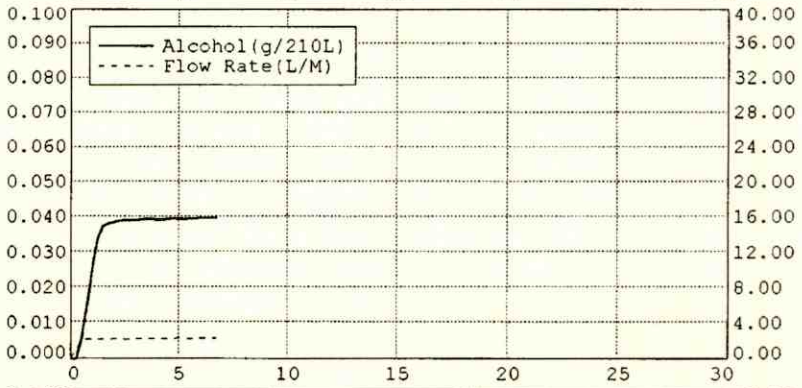
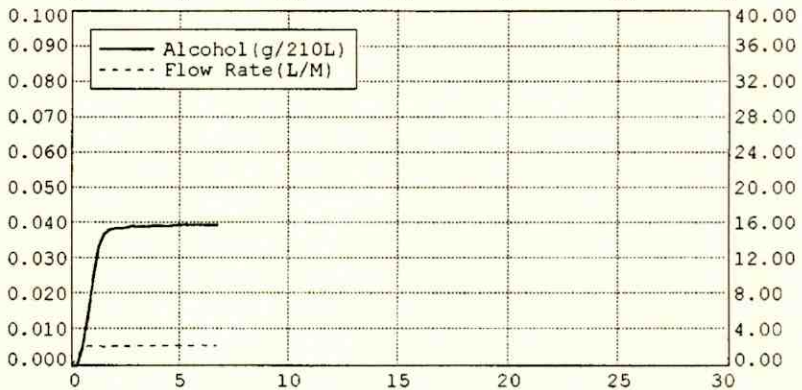
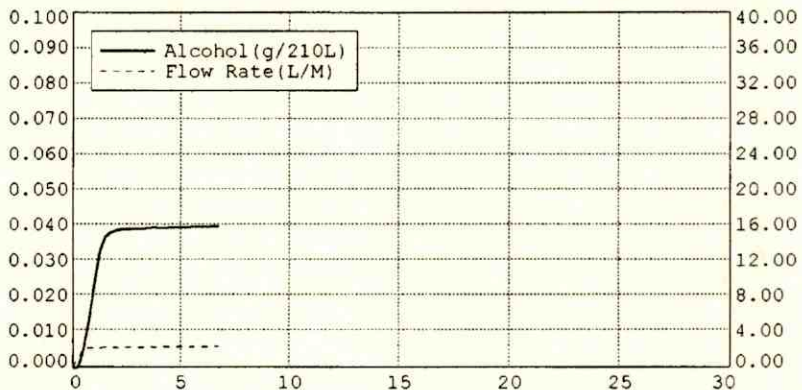
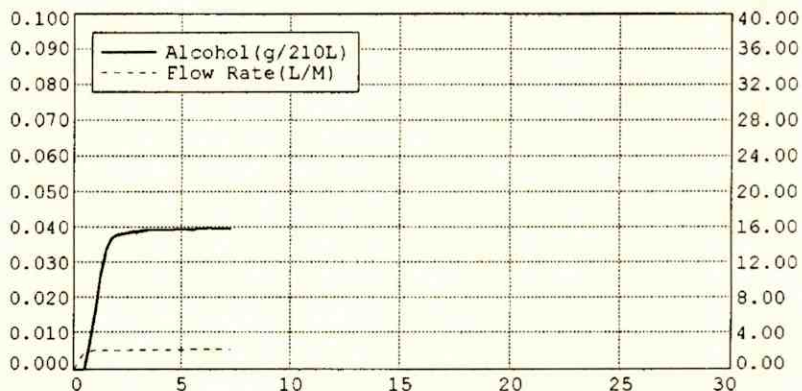
Date: 09/12/2012  
 Time: 13:05:11

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
 TARGET AT 29.47: 0.039  
 LOT #: 07611040A4  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:06
INTERNAL STANDARD	VERIFIED	13:06
EXTERNAL STANDARD	0.040	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.040	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.039	13:09
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.040	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.040	13:11
BLANK TEST	0.000	13:12

Average = 0.0401  
 Std Dev = 0.0002





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dmt: 100344

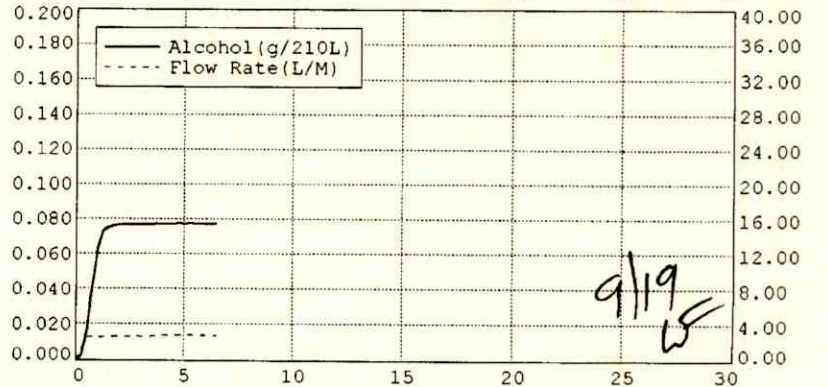
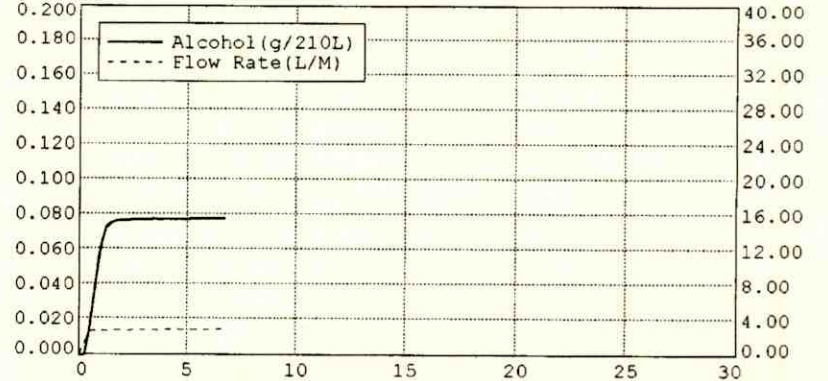
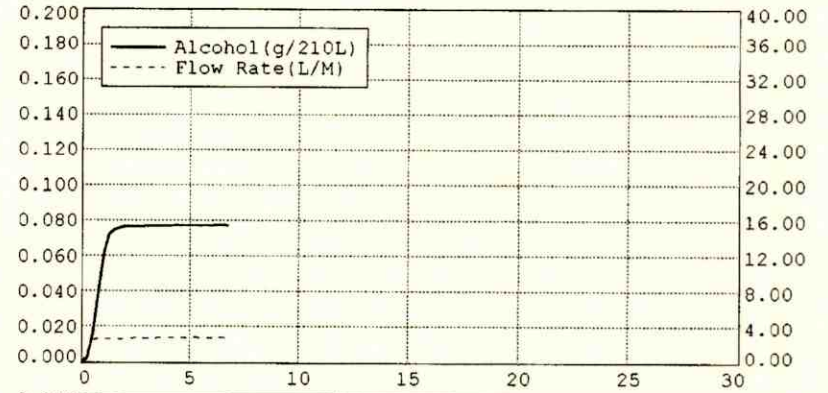
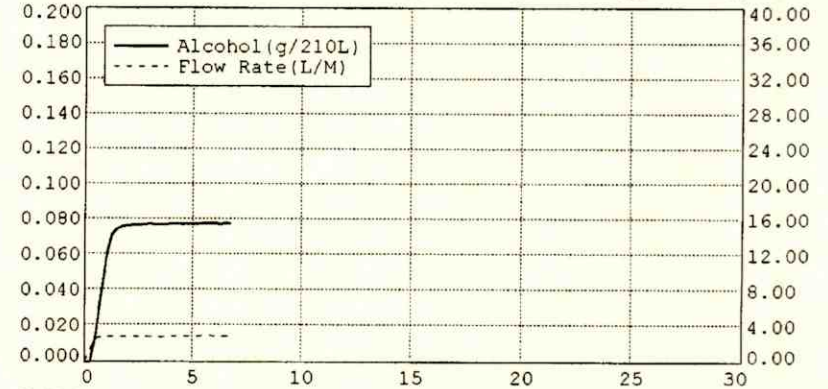
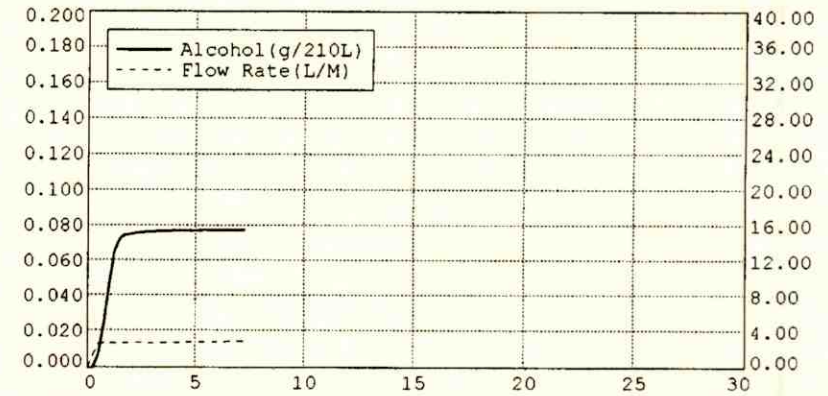
Date: 09/12/2012  
 Time: 13:12:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.48: 0.078  
 LOT #: 02012080A1  
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	13:13
INTERNAL STANDARD	VERIFIED	13:14
EXTERNAL STANDARD	0.078	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.078	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.078	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.078	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.078	13:18
BLANK TEST	0.000	13:19

Average = 0.0783  
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
 DATAMASTER dmt: 100344

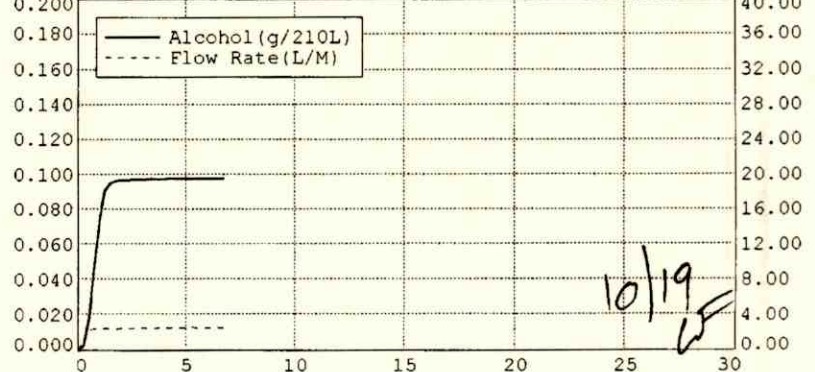
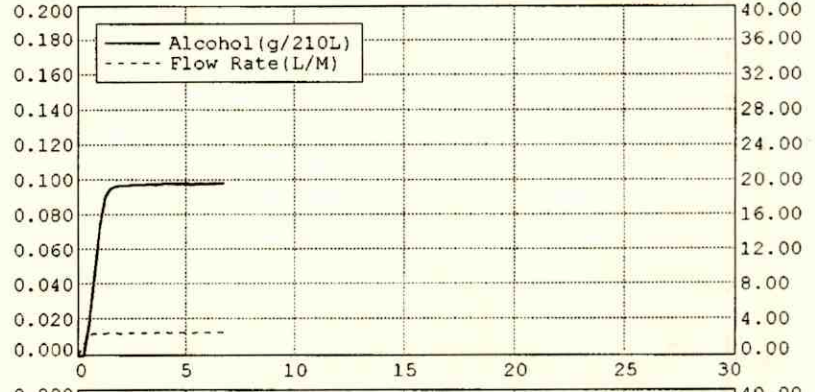
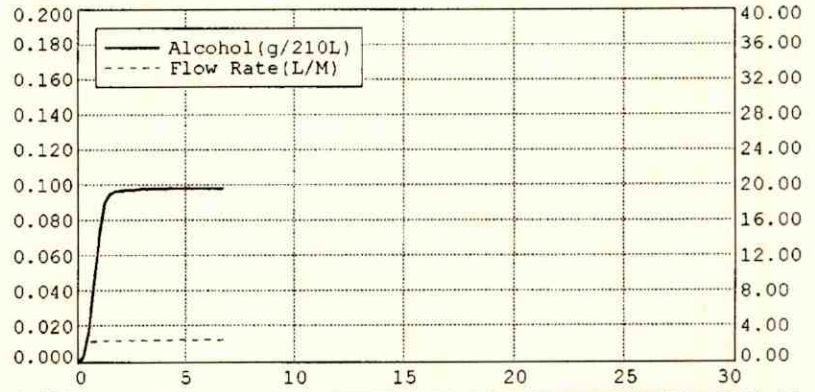
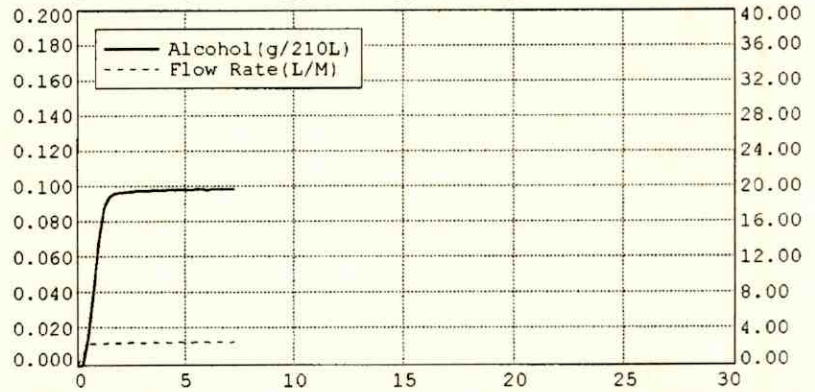
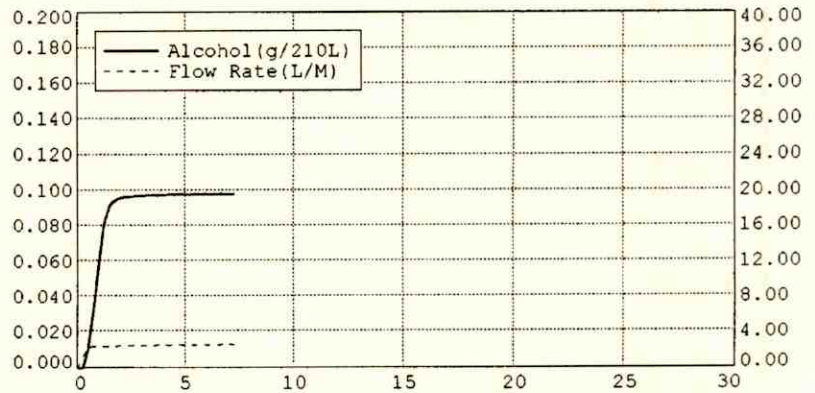
Date: 09/12/2012  
 Time: 13:20:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
 TARGET AT 29.48: 0.098  
 LOT #: 07611100A3  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
EXTERNAL STANDARD	0.098	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.098	13:23
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.098	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.098	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.098	13:26
BLANK TEST	0.000	13:27

Average = 0.0984  
 Std Dev = 0.0001





LINEARITY CHECK: Control Test 5

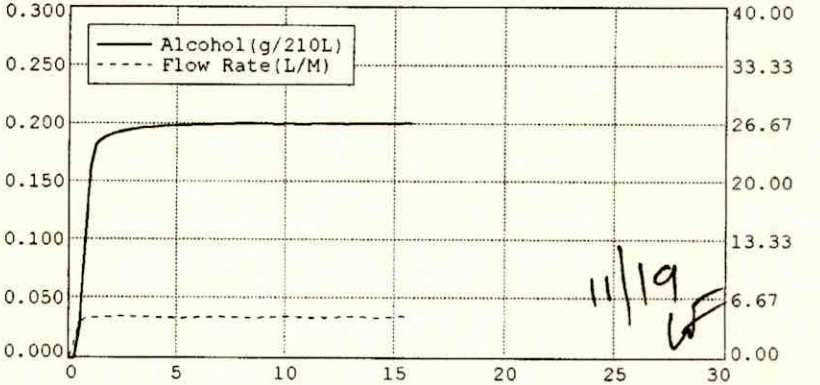
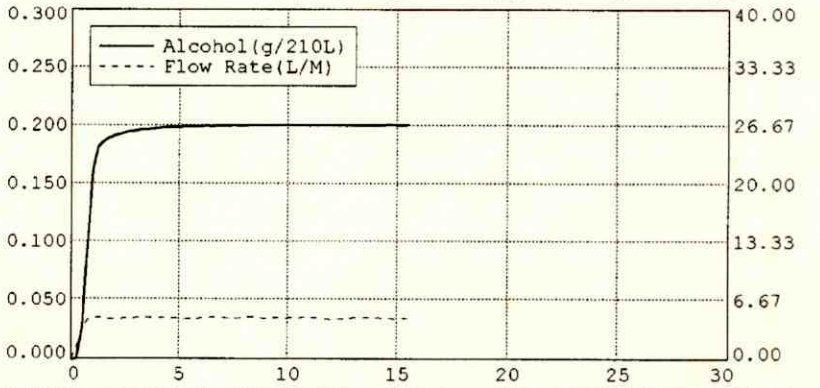
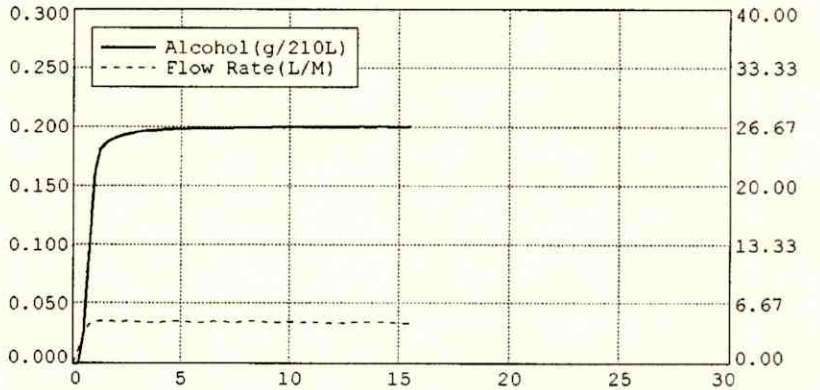
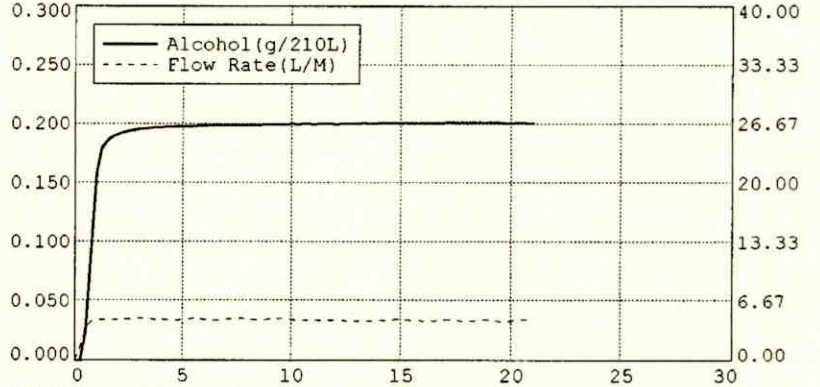
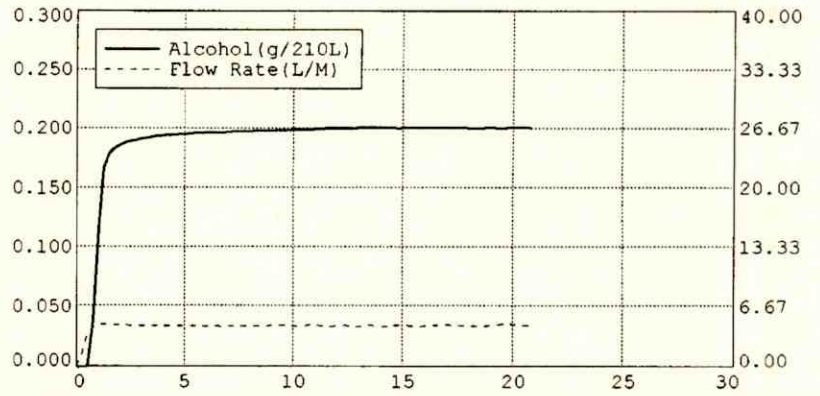
Alaska Department of Public Safety  
 DATAMASTER dmt: 100344

Date: 09/12/2012  
 Time: 13:27:49

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

BLANK TEST	0.000	13:29
INTERNAL STANDARD	VERIFIED	13:29
EXTERNAL STANDARD	0.201	13:30
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.201	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.201	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.201	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.201	13:35
BLANK TEST	0.000	13:36

Average = 0.2013  
 Std Dev = 0.0003





LINEARITY CHECK: Control Test 6

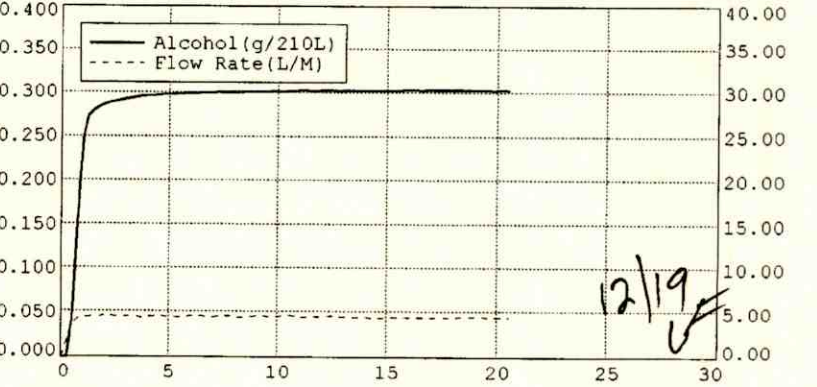
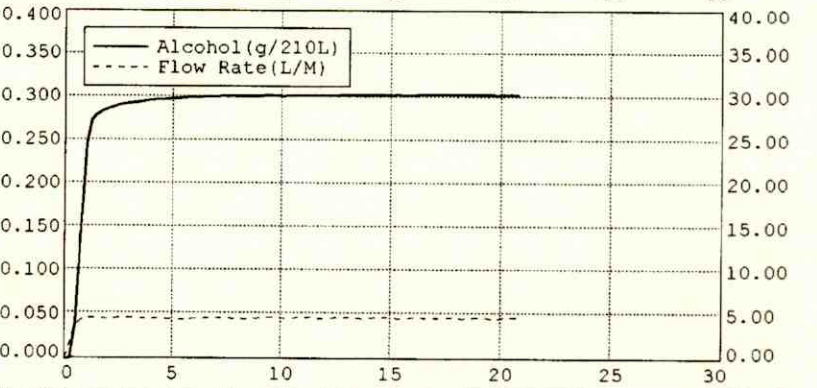
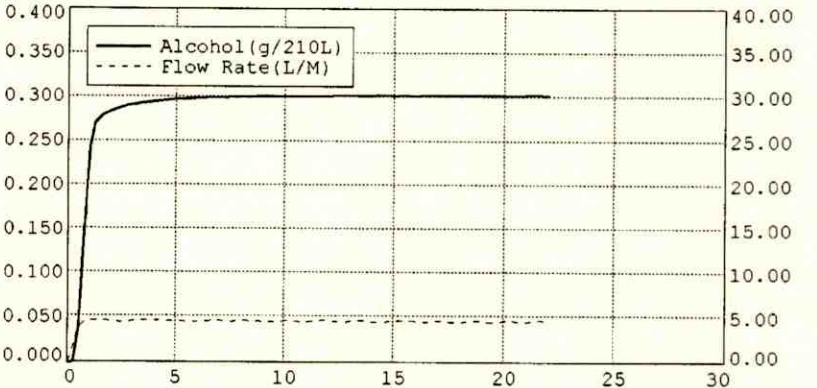
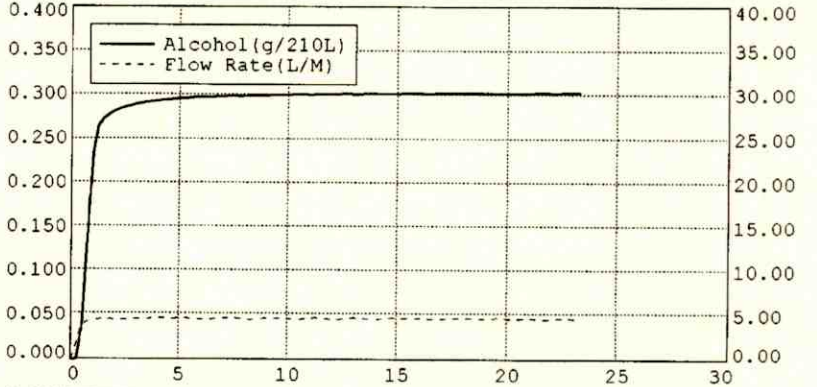
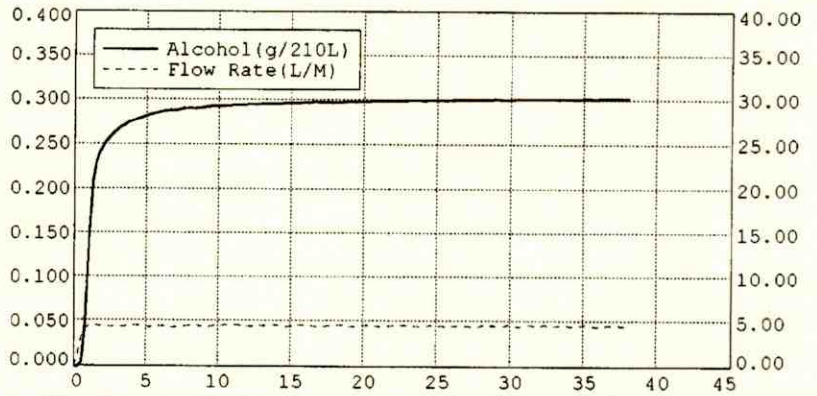
Alaska Department of Public Safety  
 DATAMASTER dmt: 100344

Date: 09/12/2012  
 Time: 13:37:24

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.300  
 LOT #: 11110  
 EXPIRATION: 07/13/2013

BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
EXTERNAL STANDARD	0.303	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.303	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.303	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.303	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.303	13:45
BLANK TEST	0.000	13:46

Average = 0.3034  
 Std Dev = 0.0002



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100344

Date: 09/12/2012  
Time: 14:26:55

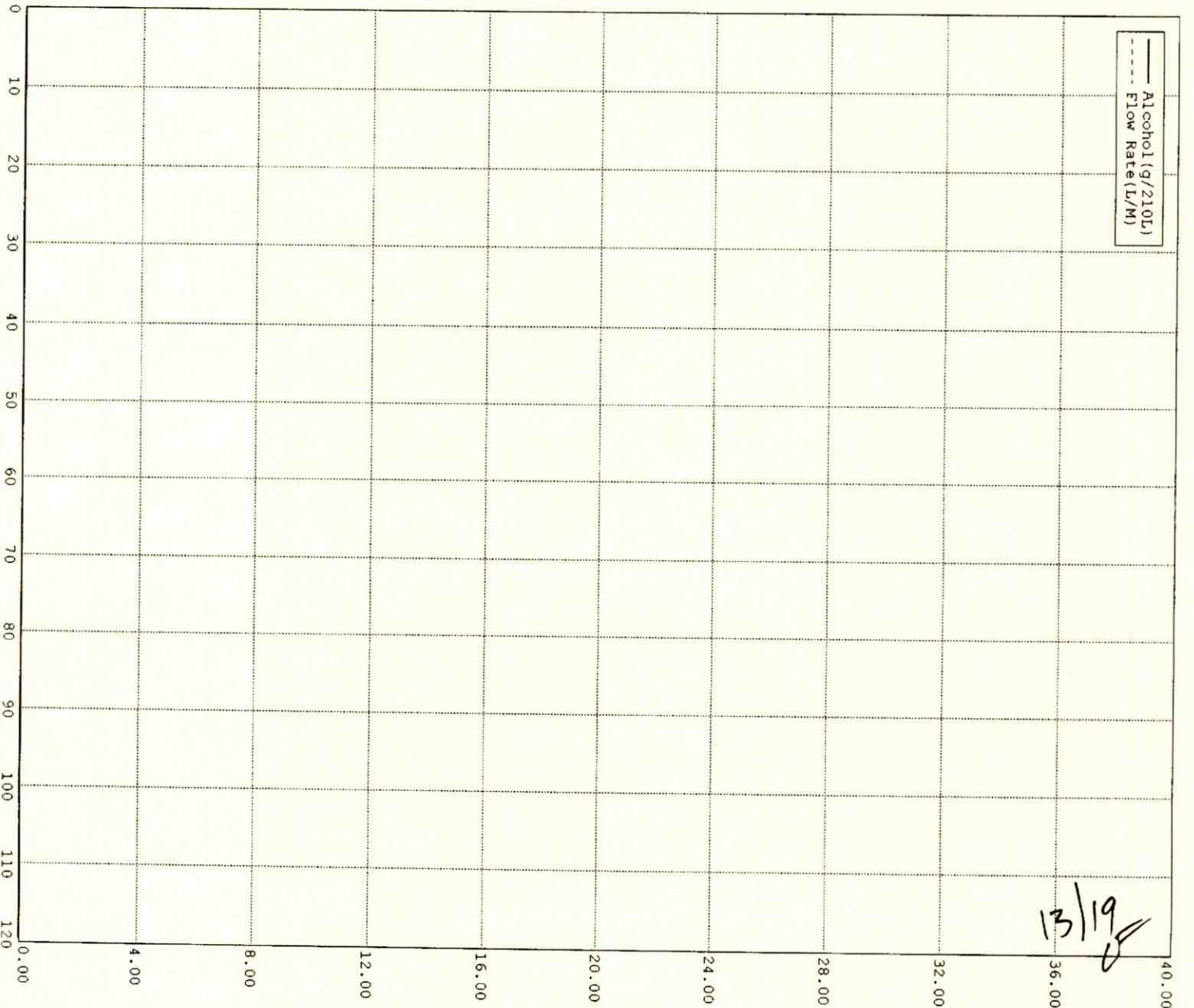
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
INCOMPLETE XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.50: 0.078  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:29
BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.076	14:29
BLANK TEST	0.000	14:30
SUBJECT SAMPLE	INCOMPLETE	14:32





SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100344

Date: 09/12/2012  
Time: 14:45:01

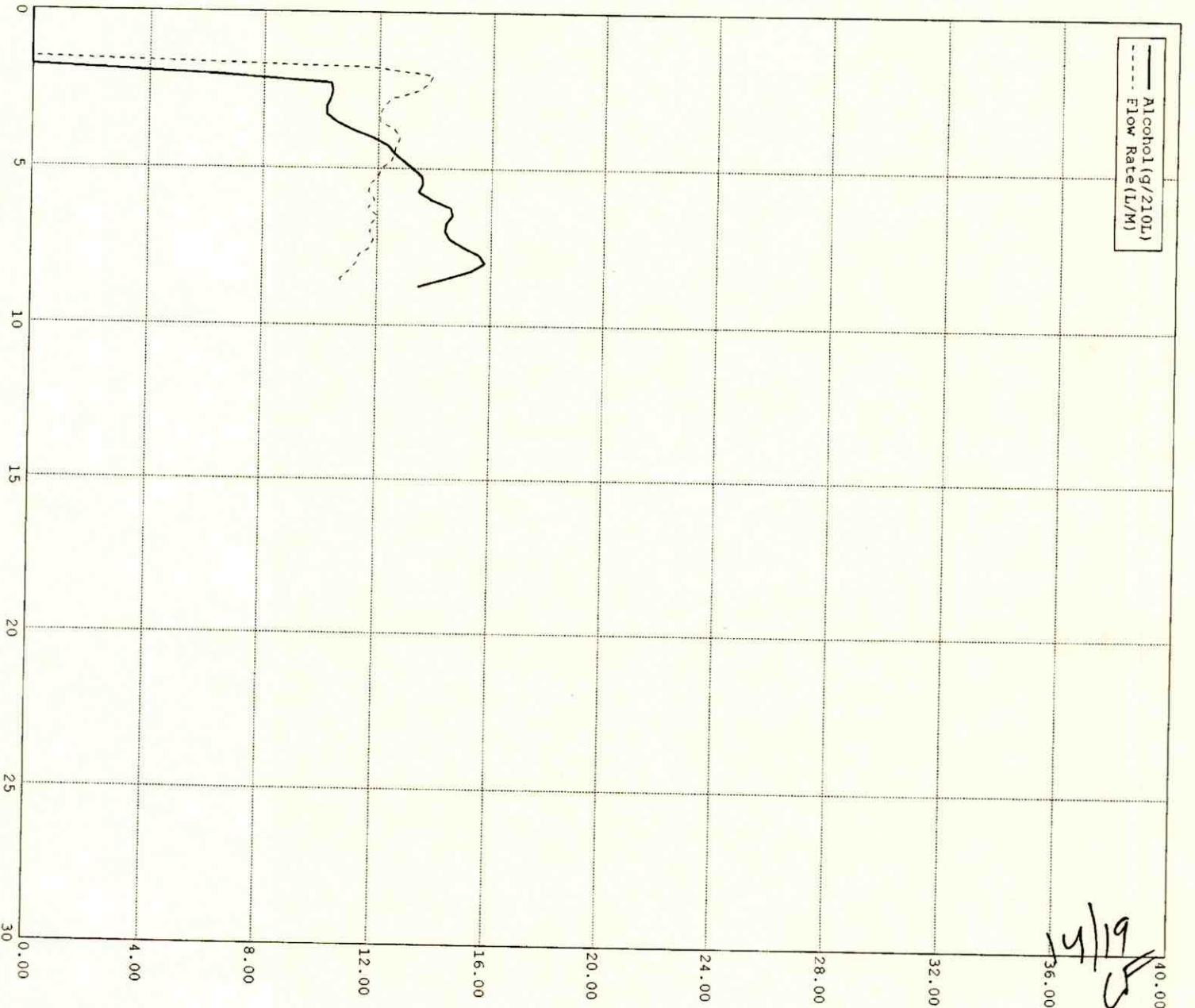
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

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 29.49: 0.078  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:46
BLANK TEST	0.000	14:46
INTERNAL STANDARD	VERIFIED	14:46
EXTERNAL STANDARD	0.075	14:46
BLANK TEST	0.000	14:47
SUBJECT SAMPLE	INVALID	14:47



9/15/12



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100344

Date: 09/13/2012  
 Time: 08:21:59

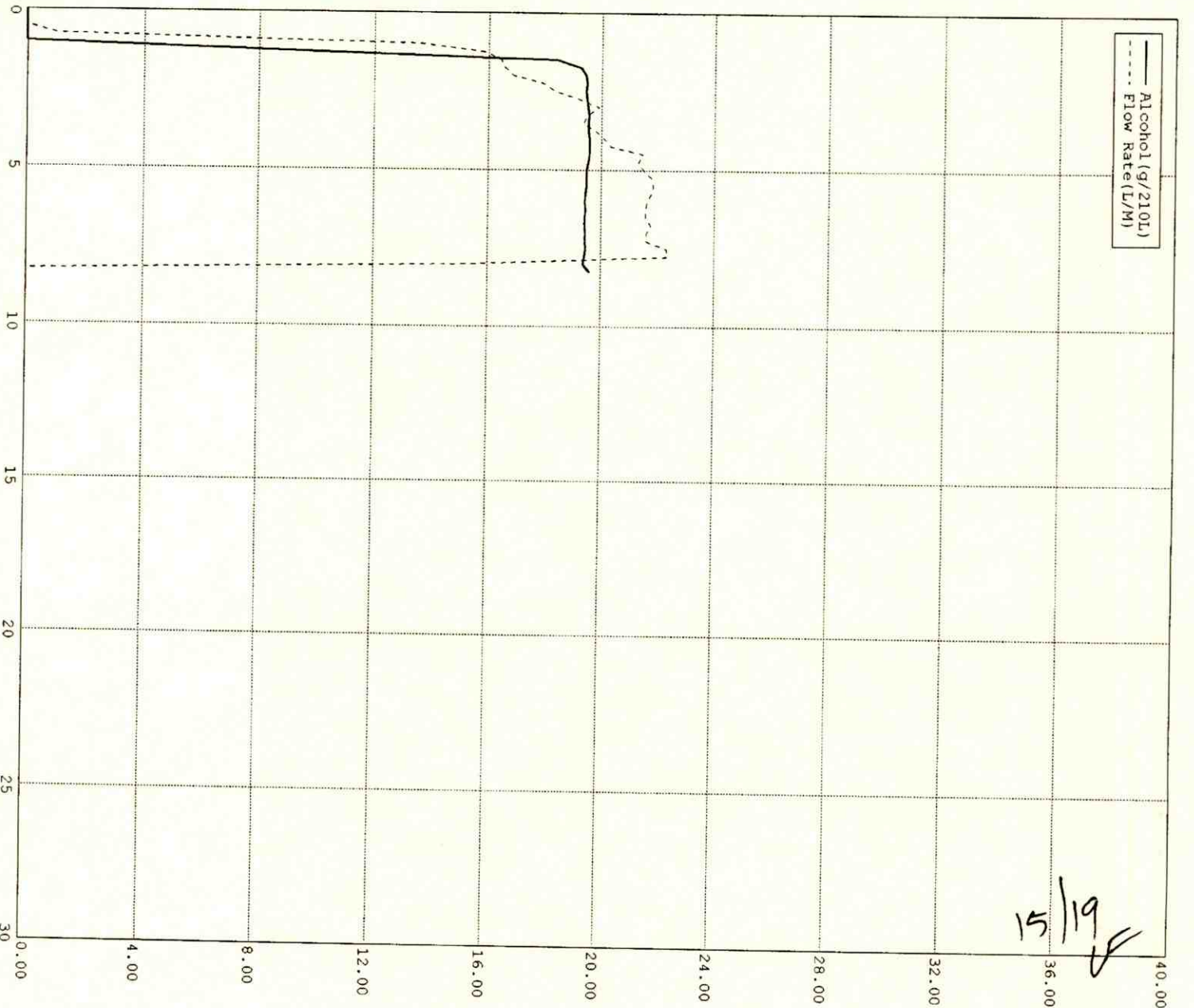
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

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 29.66: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	08:24
BLANK TEST	0.000	08:24
INTERNAL STANDARD	VERIFIED	08:24
Xq = 0.105 (0.42%)		
EXTERNAL STANDARD	0.076	08:24
X[1] = 0.0769 (-0.0005)	(0.0022)	
BLANK TEST	0.000	08:25
SUBJECT SAMPLE	INTERFERENCE	08:26
X[1] = 0.0982 (-0.0122)	(0.0010)	



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100344

Date: 09/13/2012  
Time: 08:30:17

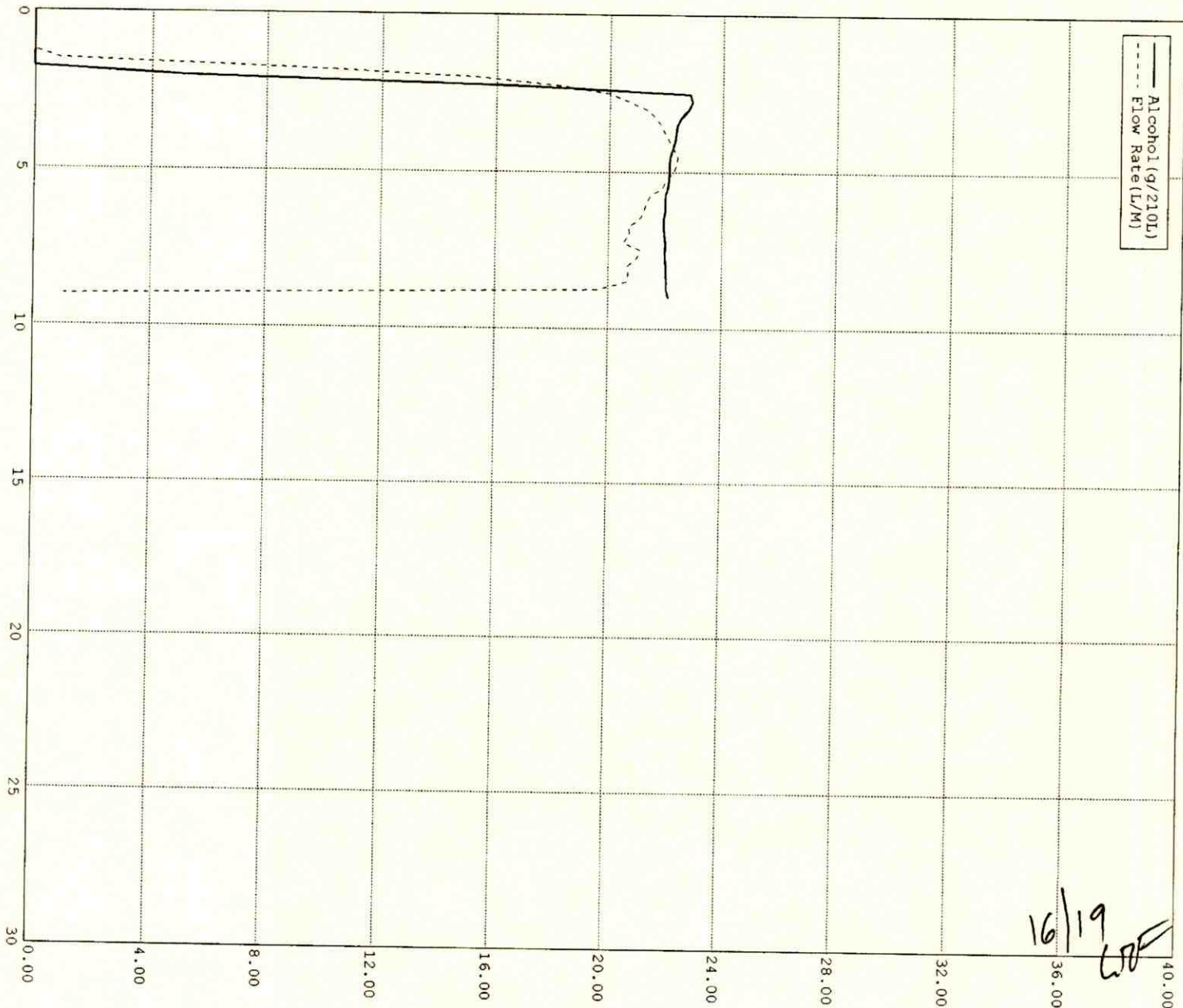
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

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 29.66: 0.079  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	08:32
BLANK TEST	0.000	08:32
INTERNAL STANDARD	VERIFIED	08:32
Xq = 0.105 (0.508)		
EXTERNAL STANDARD	0.076	08:33
X[1] = 0.0767 (-0.0014)	(0.0016)	
BLANK TEST	0.000	08:33
SUBJECT SAMPLE	INTERFERENCE	08:34
X[1] = 0.1111 (-0.0169)	(0.0005)	



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100344

Date: 09/13/2012  
 Time: 08:38:06

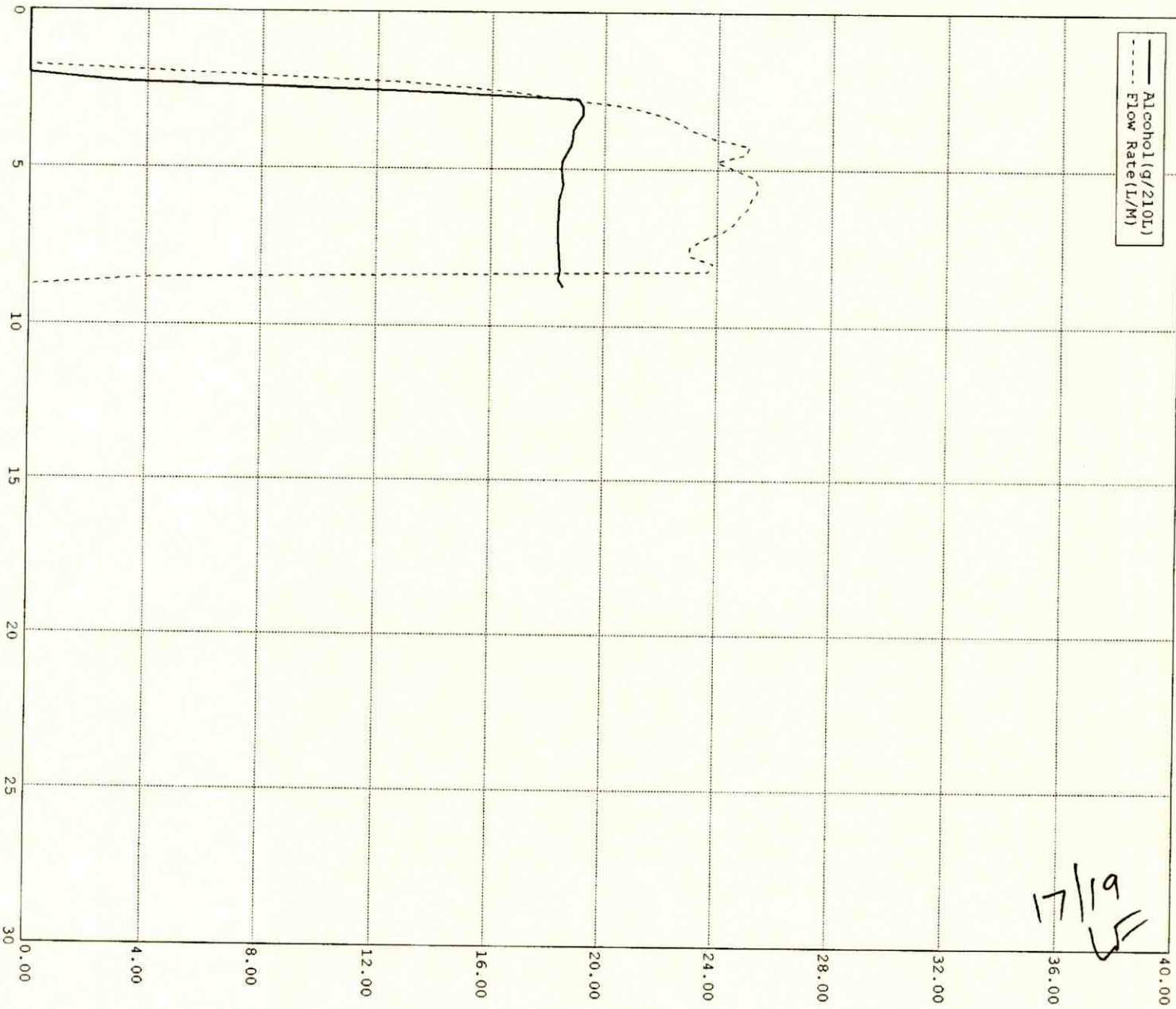
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

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 29.66: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	08:47
BLANK TEST	0.000	08:47
INTERNAL STANDARD	VERIFIED	08:47
Xq = 0.105 (0.84%)		
EXTERNAL STANDARD	0.077	08:48
X[1] = 0.0771 (-0.0002)	(0.0019)	
BLANK TEST	0.000	08:48
SUBJECT SAMPLE (VOL=2.45L)	0.092	08:49
X[1] = 0.0926 (0.0001)	(0.0001)	
BLANK TEST	0.000	08:50
EXTERNAL STANDARD	0.076	08:50
X[1] = 0.0764 (-0.0003)	(0.0018)	
BLANK TEST	0.000	08:51





SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dnt: 100344

Date: 09/12/2012  
Time: 14:50:11

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

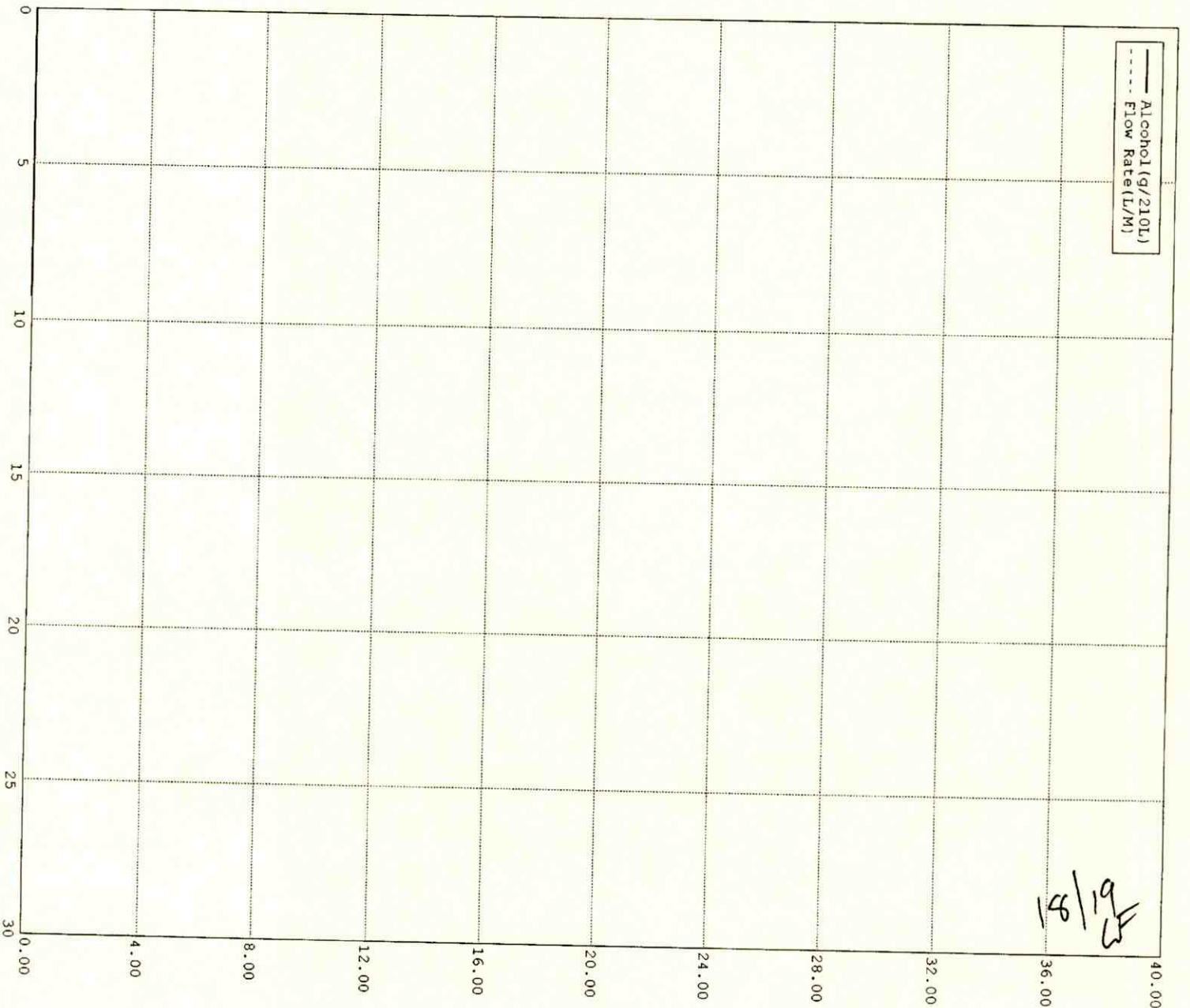
OPERATOR NAME:  
RFI XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.49: 0.078  
LOT #: 02511080A2  
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:52
BLANK TEST	0.000	14:52
INTERNAL STANDARD	VERIFIED	14:52
EXTERNAL STANDARD	0.076	14:52
BLANK TEST	0.000	14:53

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100344

Date: 09/13/2012  
 Time: 09:25:00

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 29.67: 0.079  
 LOT #: 02511080A2  
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:27
BLANK TEST	0.000	09:27
INTERNAL STANDARD	VERIFIED	09:27
EXTERNAL STANDARD	0.076	09:27
BLANK TEST	0.000	09:28
SUBJECT SAMPLE	0.000	09:29
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.077	09:30
BLANK TEST	0.000	09:31

