

## Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

Issued: 01/27/2012  
Effective: 01/27/2012

Version: DMCEF2012 R0  
Status: Active

Instrument S/N 100689Analyst CRFStart Date 3/7/12

Ran USB Fixer, updated software to 2.0, ensured back ventilation

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 1400 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 15210040A2 Exp 7/1/12iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 3/1/13iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13v. 0.200g/210L Mnf Guth Lot 1120 Exp 7/19/131. Simulator S/N SD1176 Date Calibrated 8/17/11vi. 0.300g/210L Mnf Guth Lot 1110 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 0.080 Exp 10/11/131. Simulator S/N SD1199 Date Calibrated 1/11/12ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 5/24/12 11/17/12 CRF1. 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 3/8/12

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100689  
-----

Date: 03/07/2012  
Time: 09:38:07

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C            PASSED  
Breath Tube     = 48.1°C           PASSED

PUMP INFO

Flow Rate = 4.427 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

2/18  
LF

Technician Screen

-----  
DATAMASTER dmt: 100689  
-----

Date: 03/07/2012  
Time: 10:26 AM

Temperatures (°C)

Sample Cell: 48.6°C  
Breath Tube: 47.7°C

Current Barometer 29.8 in  
Volume (Ltr) 1.47

Settings

Lamp: 1.70 V  
Bias: 80 V  
Cooler: 1.75 V  
Chopper: 544 Hz

Voltages (V)

Flow: 0.98 V  
Detector: -0.005 V

3/18  
WF

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dnt: 100689  
-----

Date: 11/01/2011  
Time: 04:30:25

Ca	=	0.1000		
CAL	=	0.982061	0.800	<= CAL < 1.200
b1	=	0.0008	0.0000	<= b1 < 0.0040
b2	=	0.0063	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.1052	0.0500	<= Xq < 0.2000
a21	=	1.225267	1.050	<= a21 < 1.300
a31	=	0.552932	0.300	<= a31 < 0.600

4/18  
WF

SUBJECT TEST

Alaska Department of Public Safety  
LABORATORY dnt: 100689

Date: 03/07/2012  
Time: 10:40:19

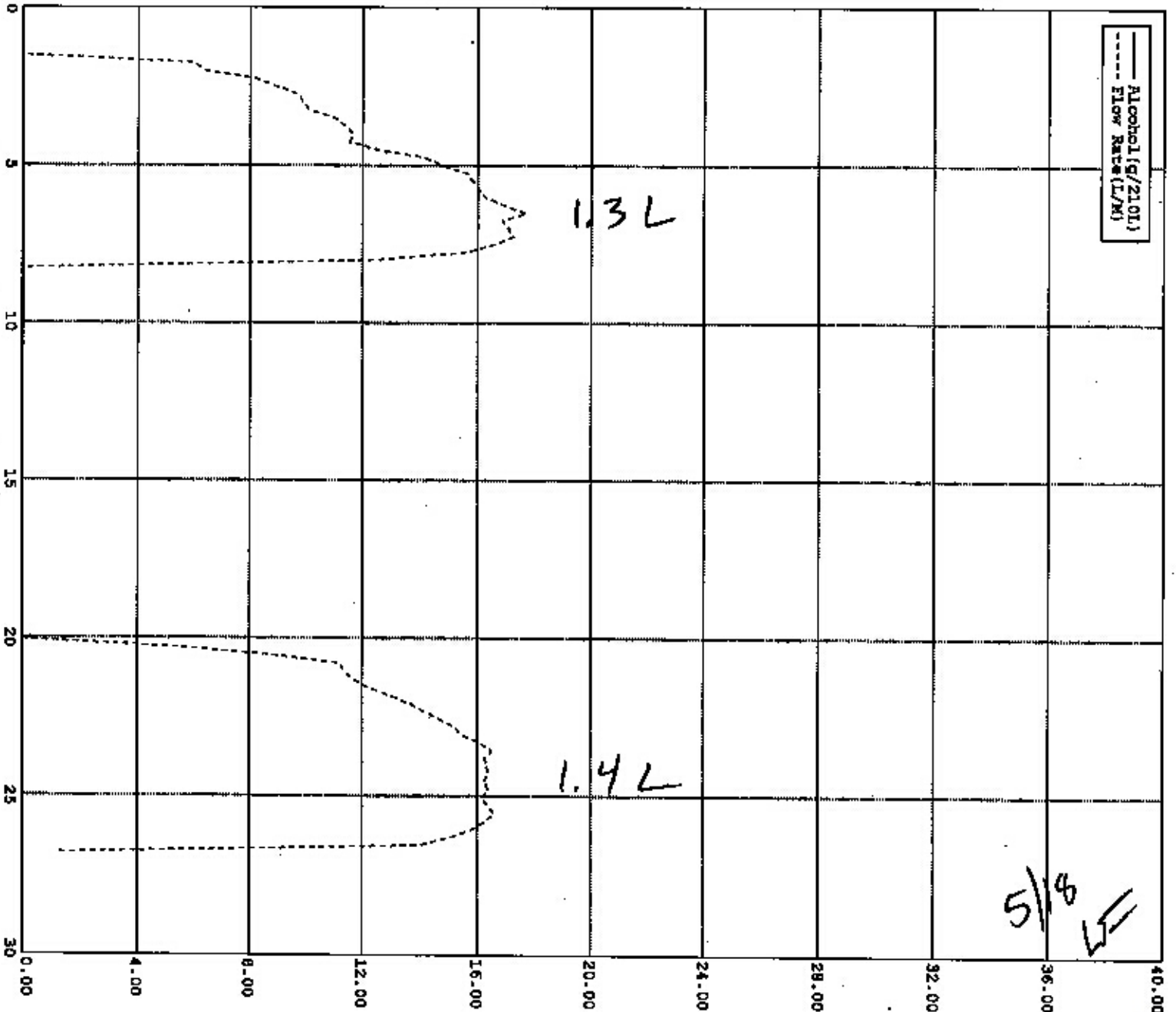
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
MINIMUM VOLUME  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.81: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:41
BLANK TEST	0.000	10:41
INTERNAL STANDARD	VERIFIED	10:41
EXTERNAL STANDARD	0.079	10:42
BLANK TEST	0.000	10:42
SUBJECT SAMPLE	0.000	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.079	10:44
BLANK TEST	0.000	10:45



**LINEARITY CHECK**

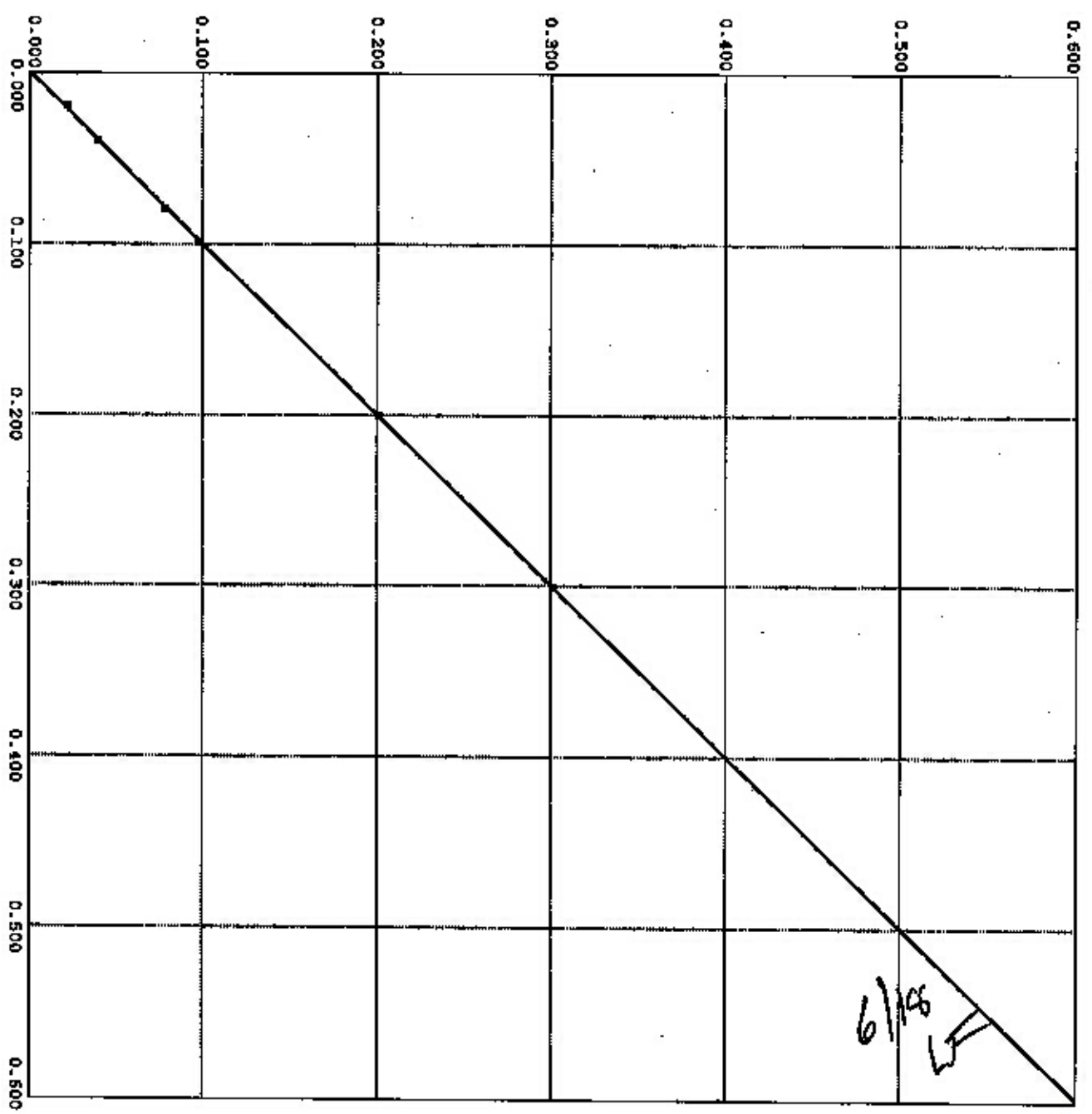
Alaska Department of Public Safety  
 Davidsonster dnr: 100689

Date: 03/07/2012  
 Time: 10:49:24

SUPERVISOR NAME:  
 CHARLES FOSTER  
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0216	0.0003
0.039	0.0397	0.0001
0.079	0.0788	0.0002
0.099	0.0983	0.0001
0.200	0.2016	0.0003
0.300	0.3019	0.0004

SLOPE = 1.002514  
 R² = 0.999867



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dnt: 100689

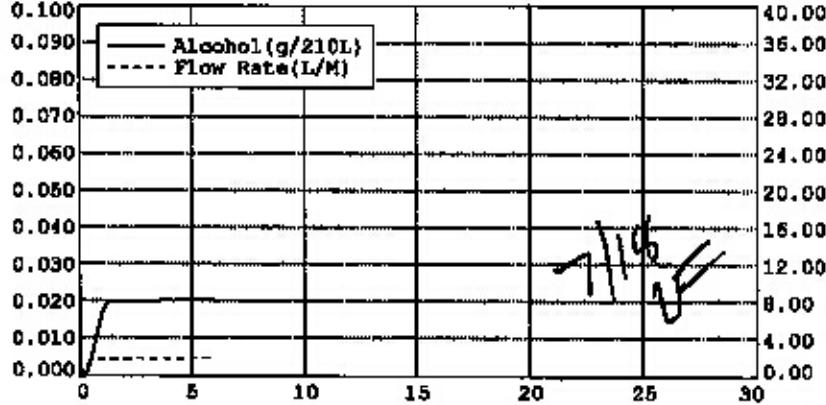
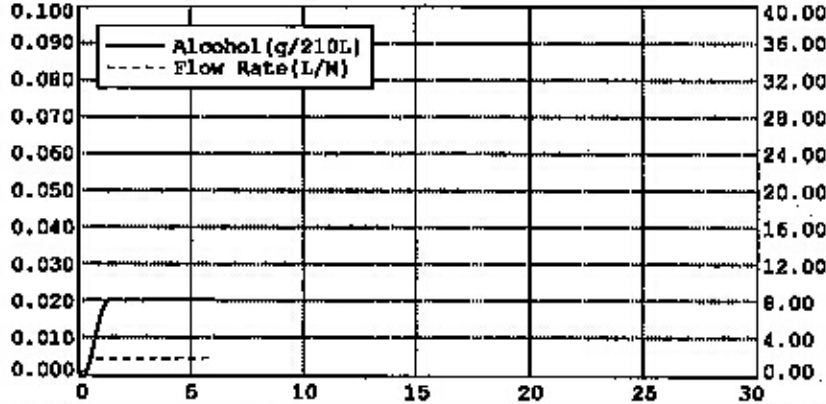
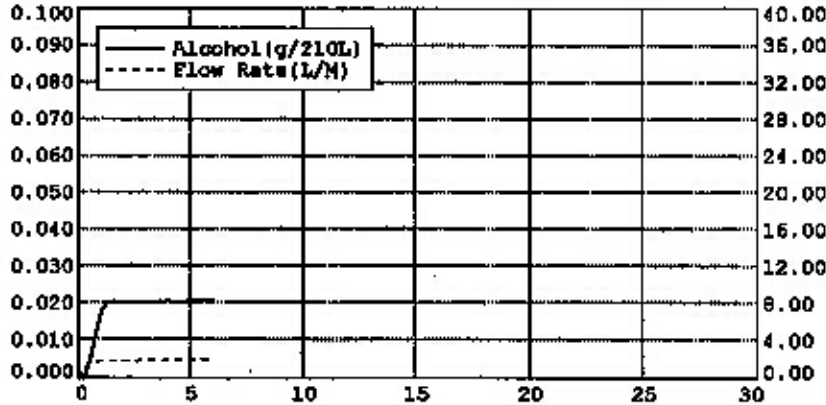
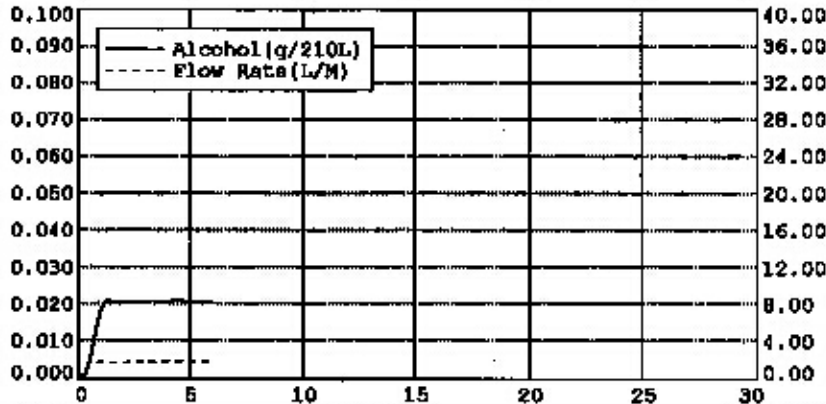
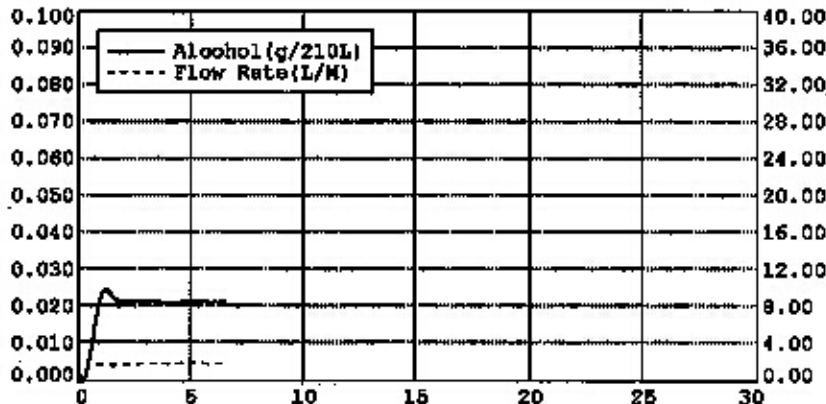
Date: 03/07/2012  
 Time: 10:49:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.81: 0.019  
 LOT #: 15210020A1  
 EXPIRATION: 07/01/2012

BLANK TEST	0.000	10:51
INTERNAL STANDARD	VERIFIED	10:51
EXTERNAL STANDARD	0.022	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.021	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.021	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.021	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.021	10:55
BLANK TEST	0.000	10:56

Average = 0.0216  
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

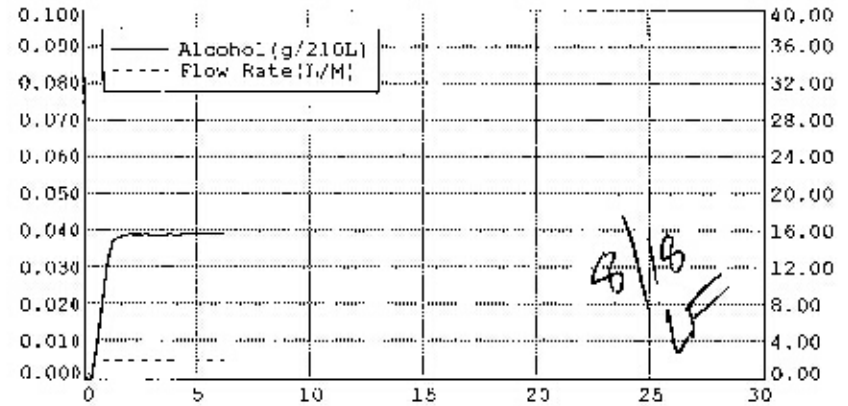
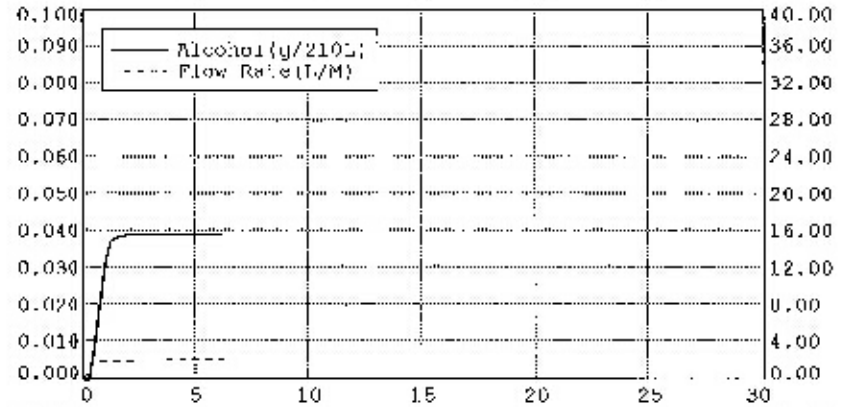
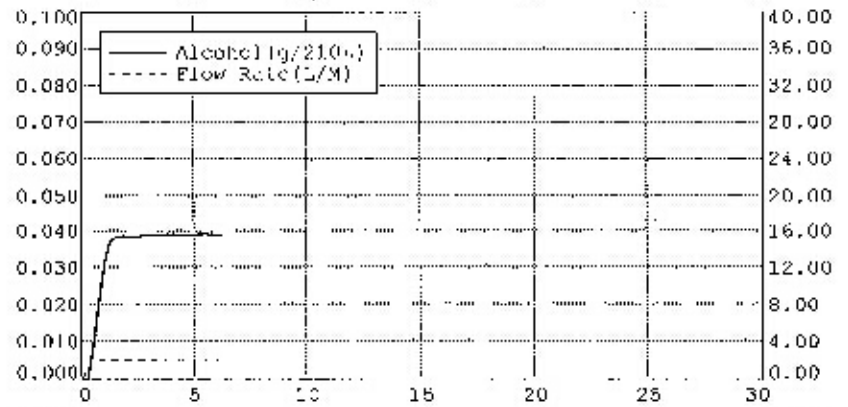
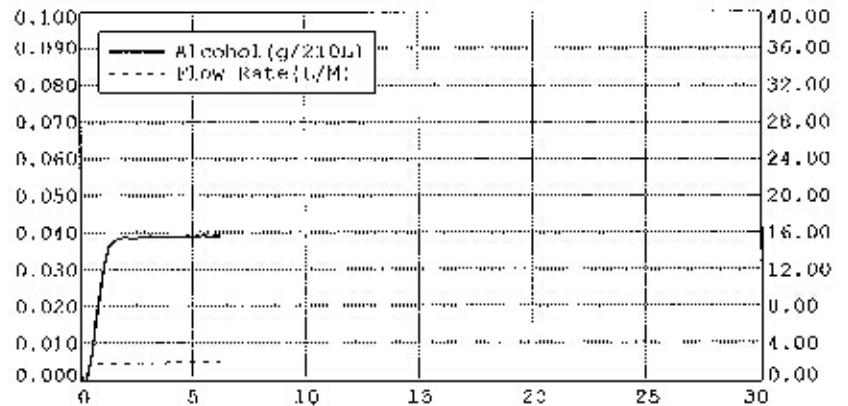
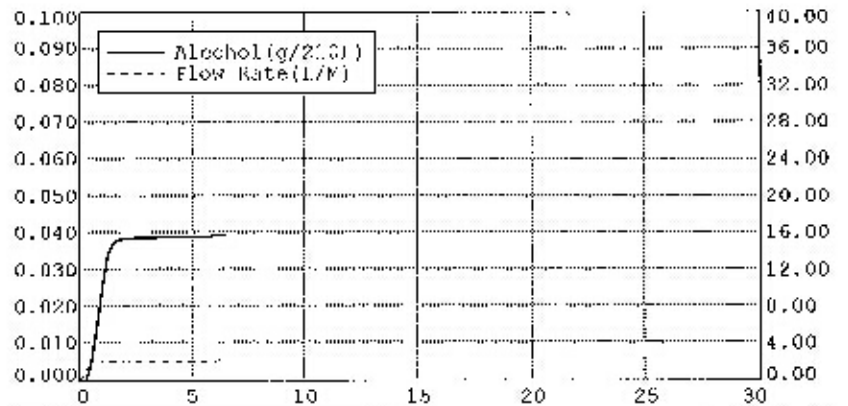
Alaska Department of Public Safety  
 DATAMASTER dnt: 100689

Date: 03/07/2012  
 Time: 10:57:24

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.040  
 TARGET AT 29.81: 0.039  
 LOT #: 15210040A2  
 EXPIRATION: 07/01/2012

BLANK TEST	0.000	10:58
INTERNAL STANDARD	VERIFIED	10:58
EXTERNAL STANDARD	0.039	10:59
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.039	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.039	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.039	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.039	11:03
BLANK TEST	0.000	11:04

Average = 0.0397  
 Std Dev = 0.0001





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dnt: 100689

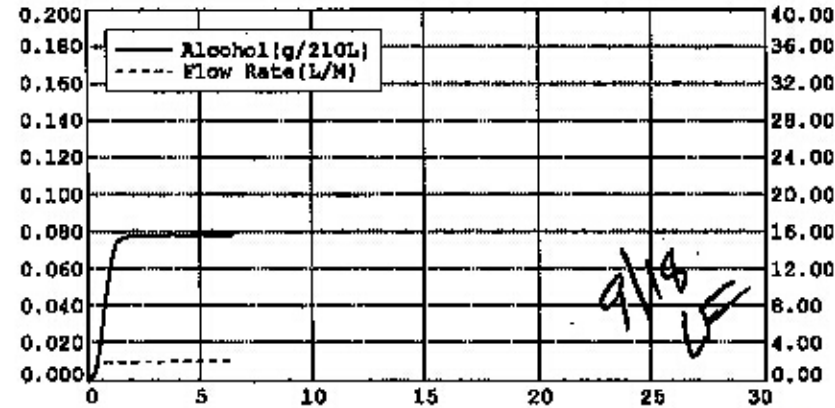
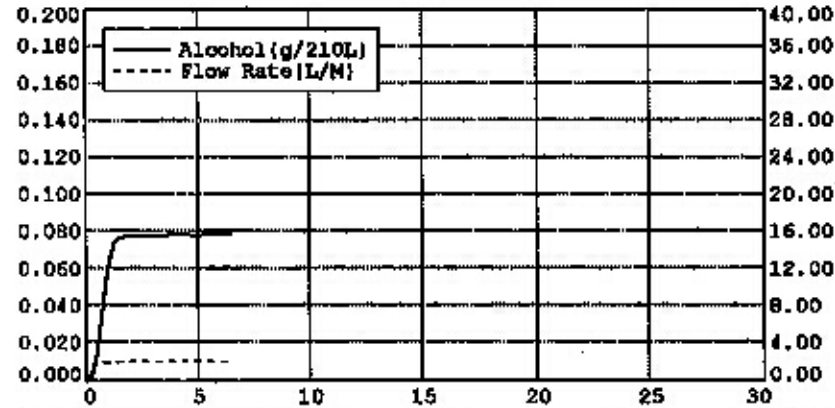
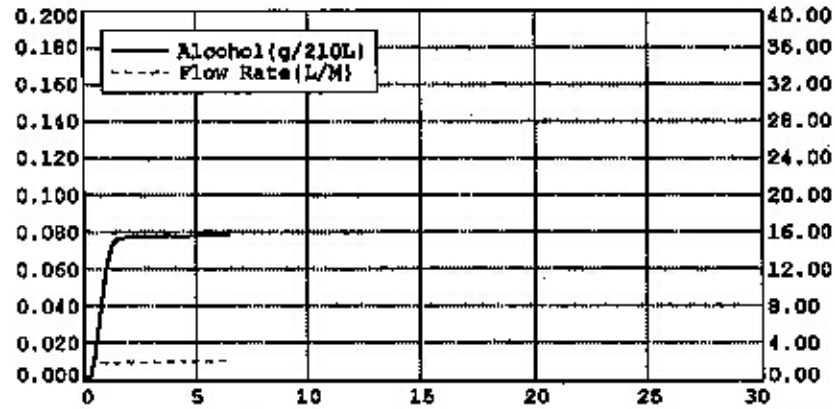
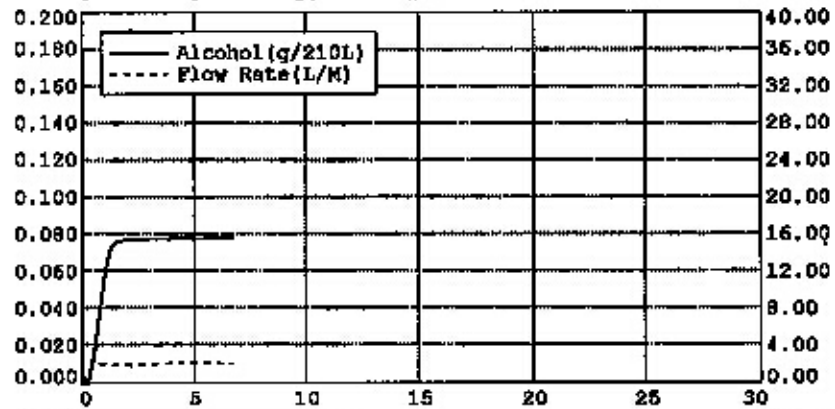
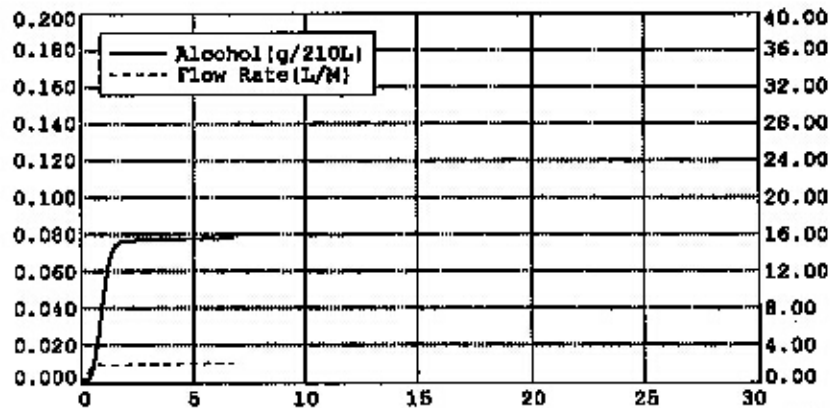
Date: 03/07/2012  
 Time: 11:05:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.81: 0.079  
 LOT #: 075118H0A1  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:06
INTERNAL STANDARD	VERIFIED	11:06
EXTERNAL STANDARD	0.078	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.078	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.078	11:09
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.078	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.079	11:11
BLANK TEST	0.000	11:12

Average = 0.0788  
 Std Dev = 0.0002



## LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
DATAMASTER dmt; 100689

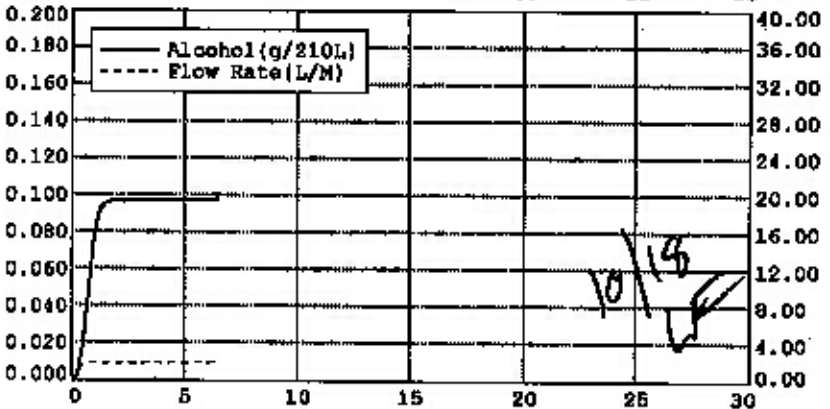
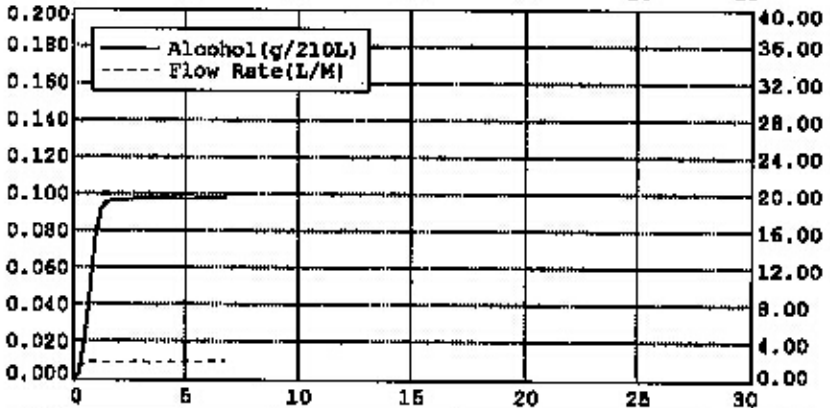
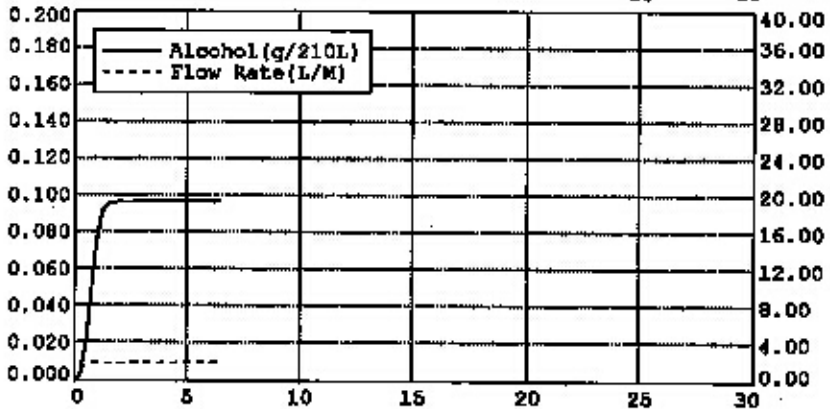
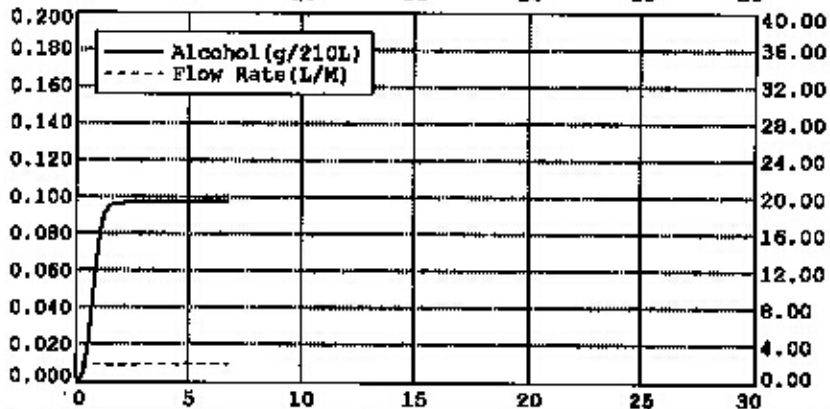
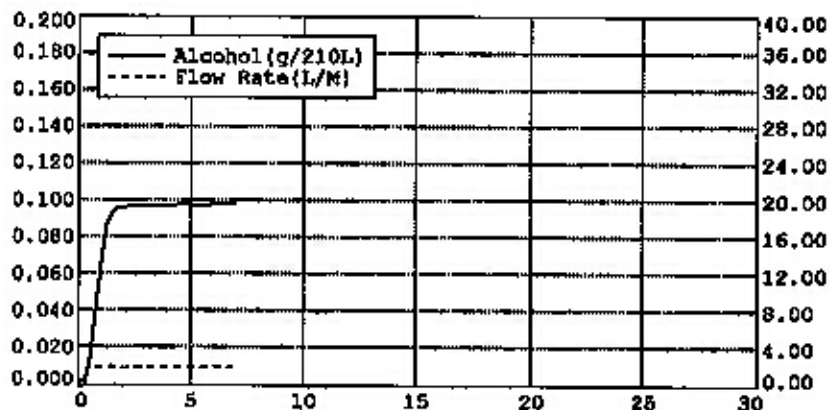
Date: 03/07/2012  
Time: 11:12:53

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
TARGET AT 29.81; 0.999  
LOT #: 05611100A2  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:14
INTERNAL STANDARD	VERIFIED	11:14
EXTERNAL STANDARD	0.098	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.098	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.098	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.098	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.098	11:18
BLANK TEST	0.000	11:19

Average = 0.0983  
Std Dev = 0.0001



## LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
 DATAMASTER dmt: 100689

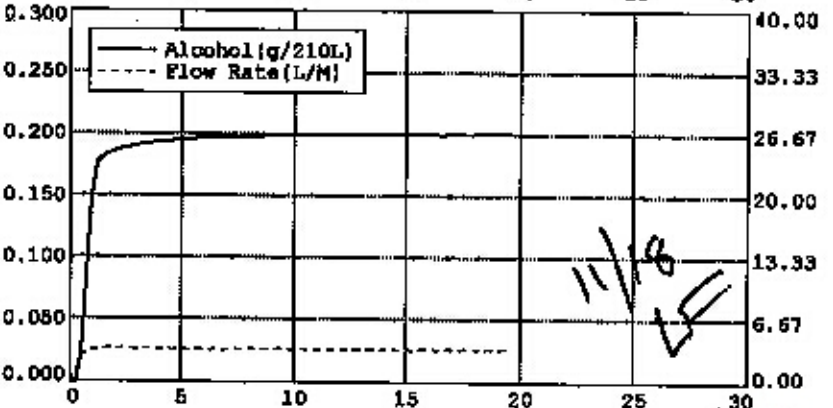
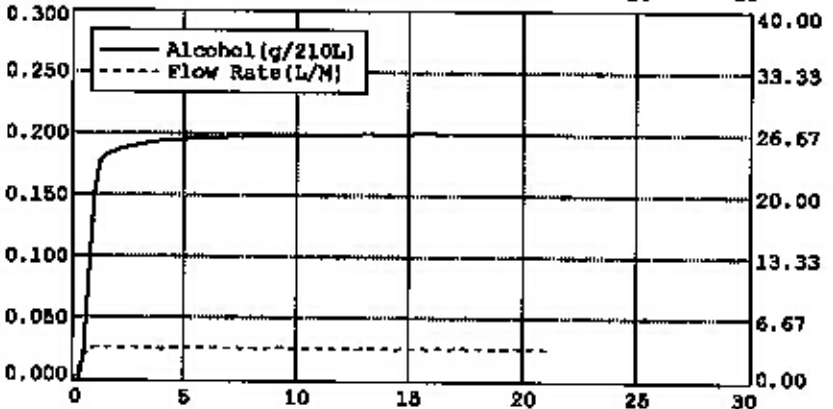
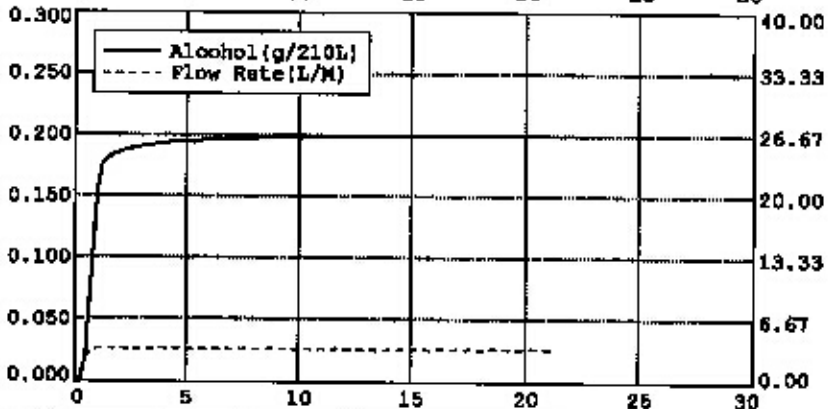
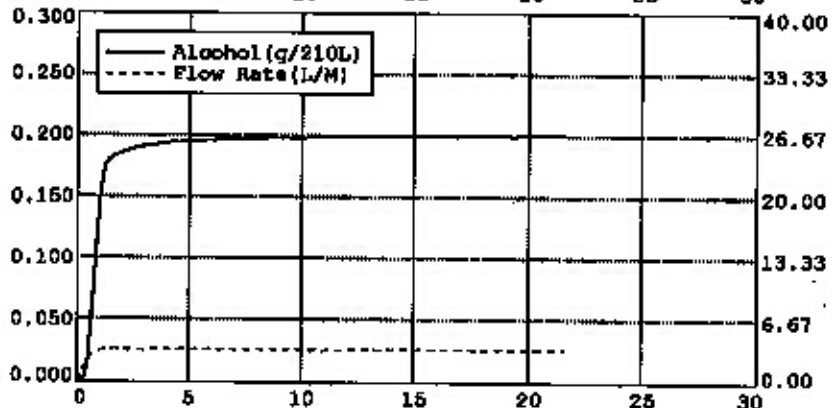
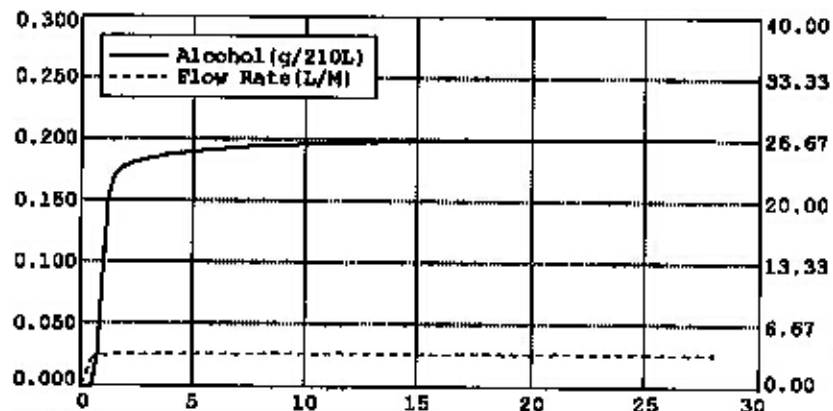
Date: 03/07/2012  
 Time: 11:37:39

## EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:38
INTERNAL STANDARD	VERIFIED	11:38
EXTERNAL STANDARD	0.201	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.201	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.201	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.201	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.201	11:44
BLANK TEST	0.000	11:45

Average = 0.2016  
 Std Dev = 0.0003



## LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
DATAMASTER dnt: 100689

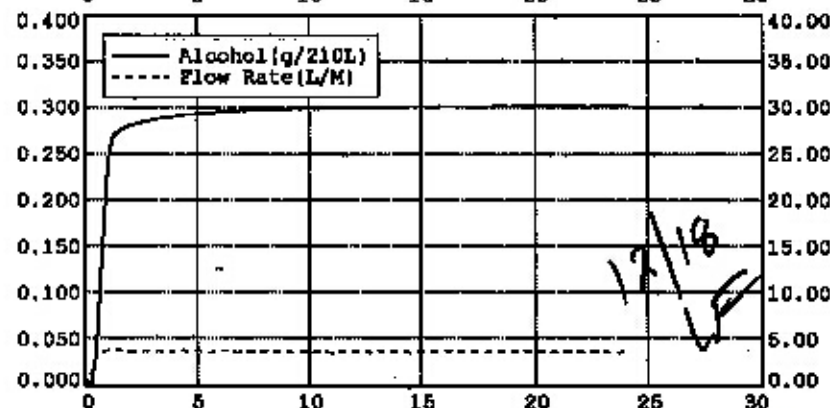
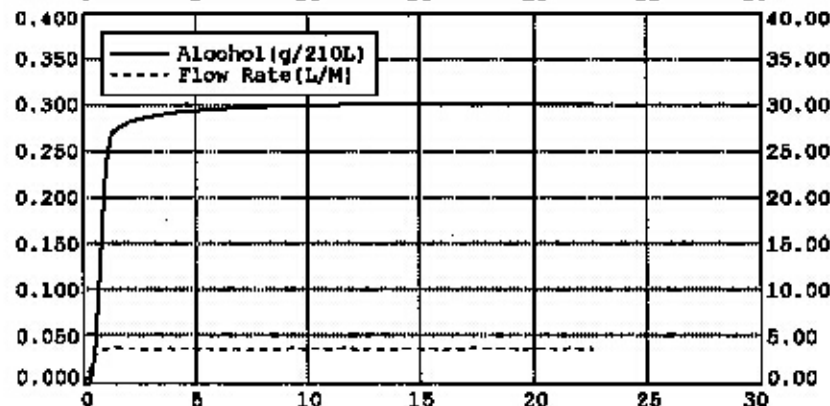
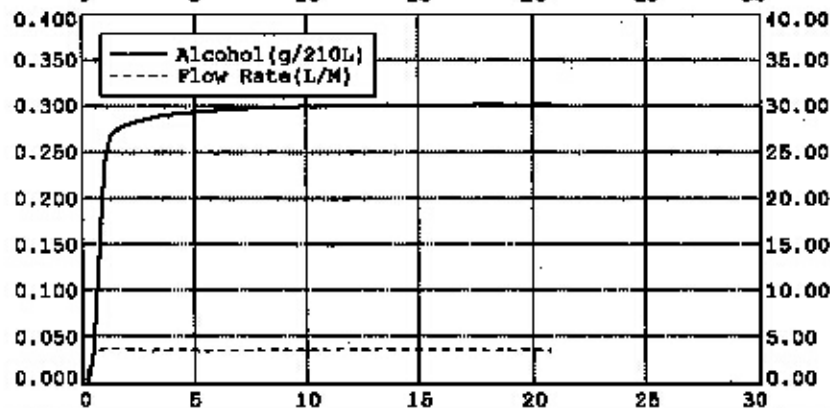
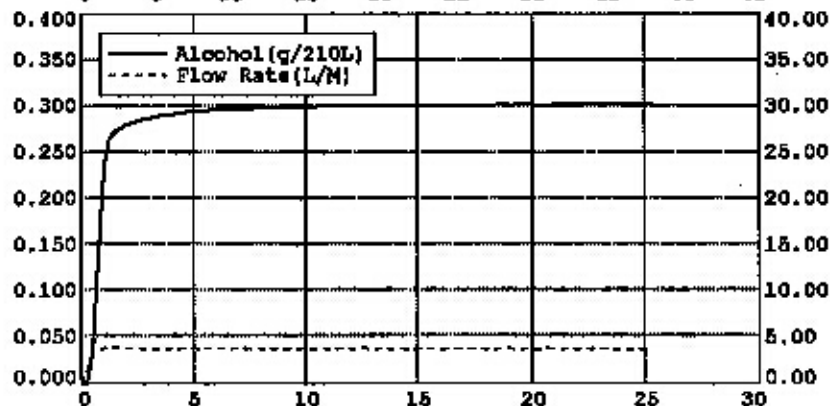
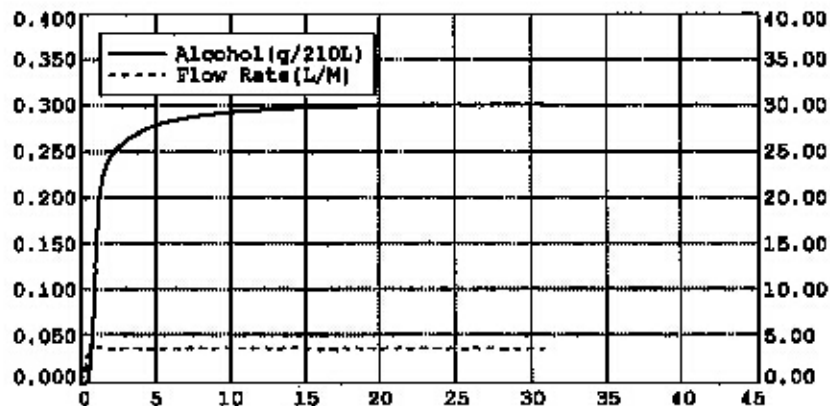
Date: 03/07/2012  
Time: 11:50:01

## EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:51
INTERNAL STANDARD	VERIFIED	11:51
EXTERNAL STANDARD	0.301	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.302	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.302	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.302	11:56
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.301	11:57
BLANK TEST	0.000	11:58

Average = 0.3019  
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmc: 100689

Date: 03/07/2012  
 Time: 15:16:52

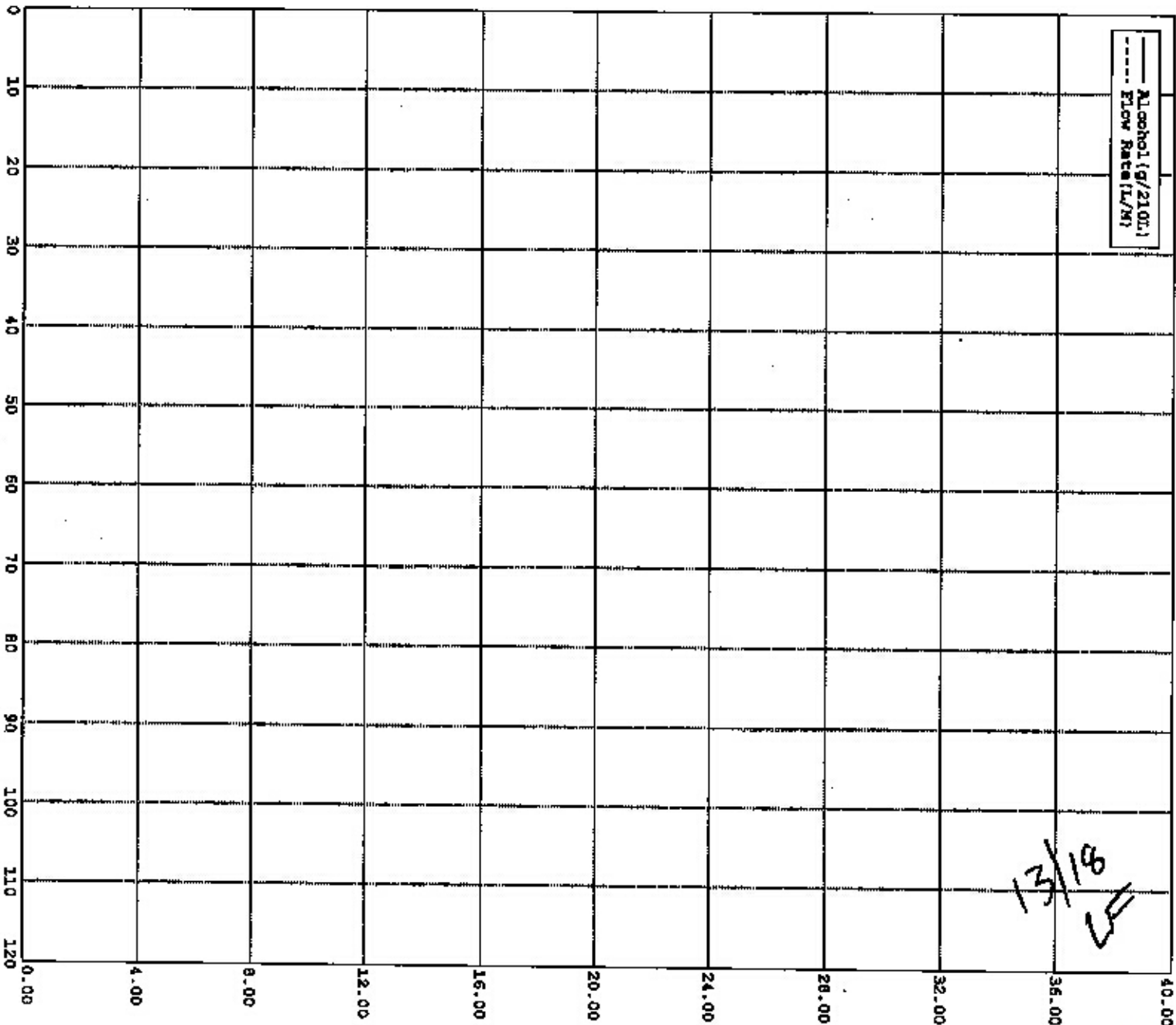
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 INCOMPLETE XXXX  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AM 29.81: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:17
BLANK TEST	0.000	15:18
INTERNAL STANDARD	VERIFIED	15:18
EXTERNAL STANDARD	0.078	15:18
BLANK TEST	0.000	15:19
SUBJECT SAMPLE	INCOMPLETE	15:21



SUBJECT TEST

Alaska Department of Public Safety  
LABMASTER dmt: 100689

Date: 03/07/2012  
Time: 15:24:40

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
INVALID MONTH EYER  
OPERATOR'S #: XXXX

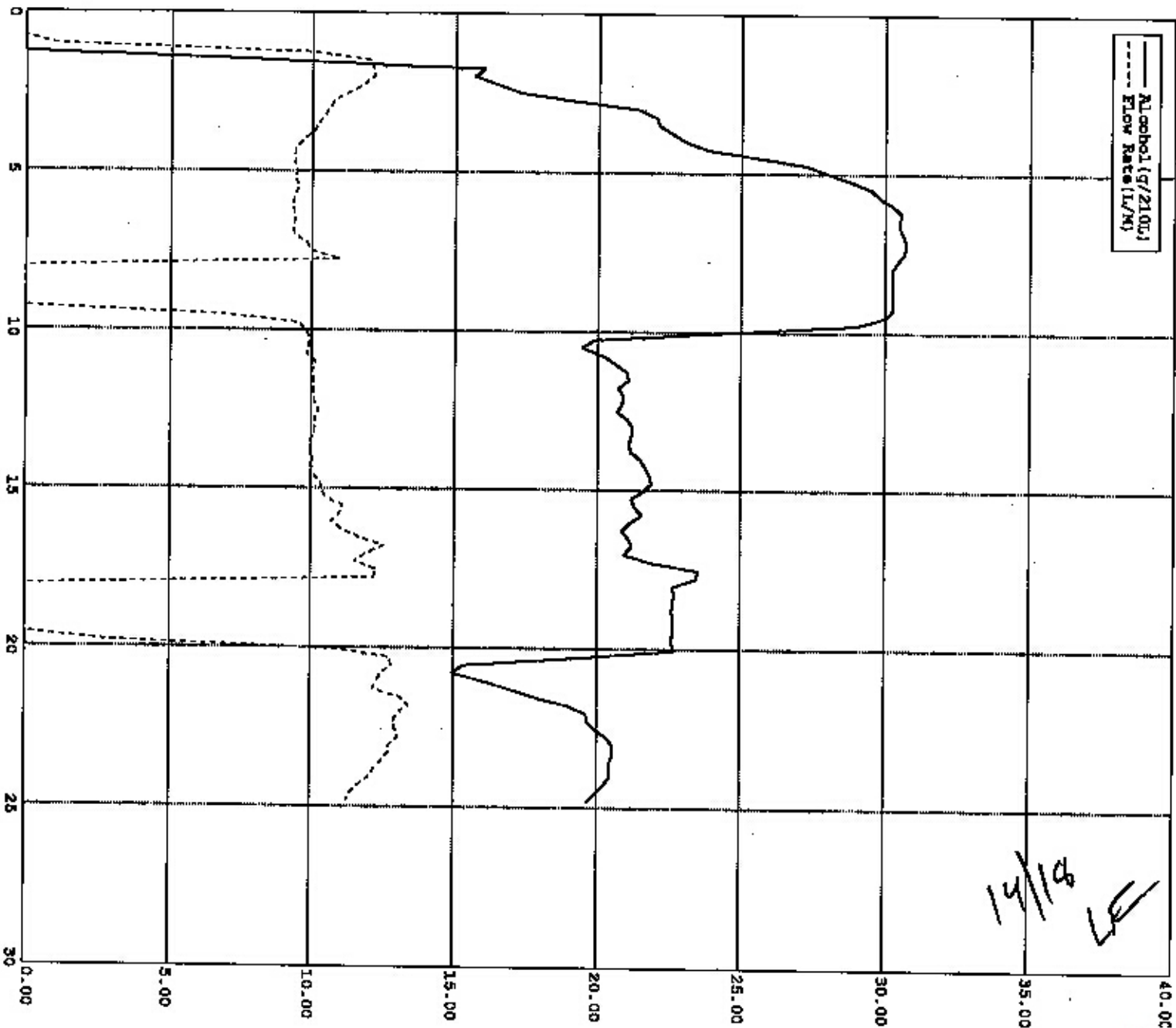
DEPT/AGENCY:  
XXXX

CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.80: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:27
BLANK TEST	0.000	15:27
INTERNAL STANDARD	VERIFIED	15:28
EXTERNAL STANDARD	0.079	15:28
BLANK TEST	0.000	15:29
SUBJECT SAMPLE	INVALID	15:29



**SUBJECT TEST**

Alaska Department of Public Safety  
 DAVIDMASTER dmt : 100689

Date: 03/07/2012  
 Time: 15:41:14

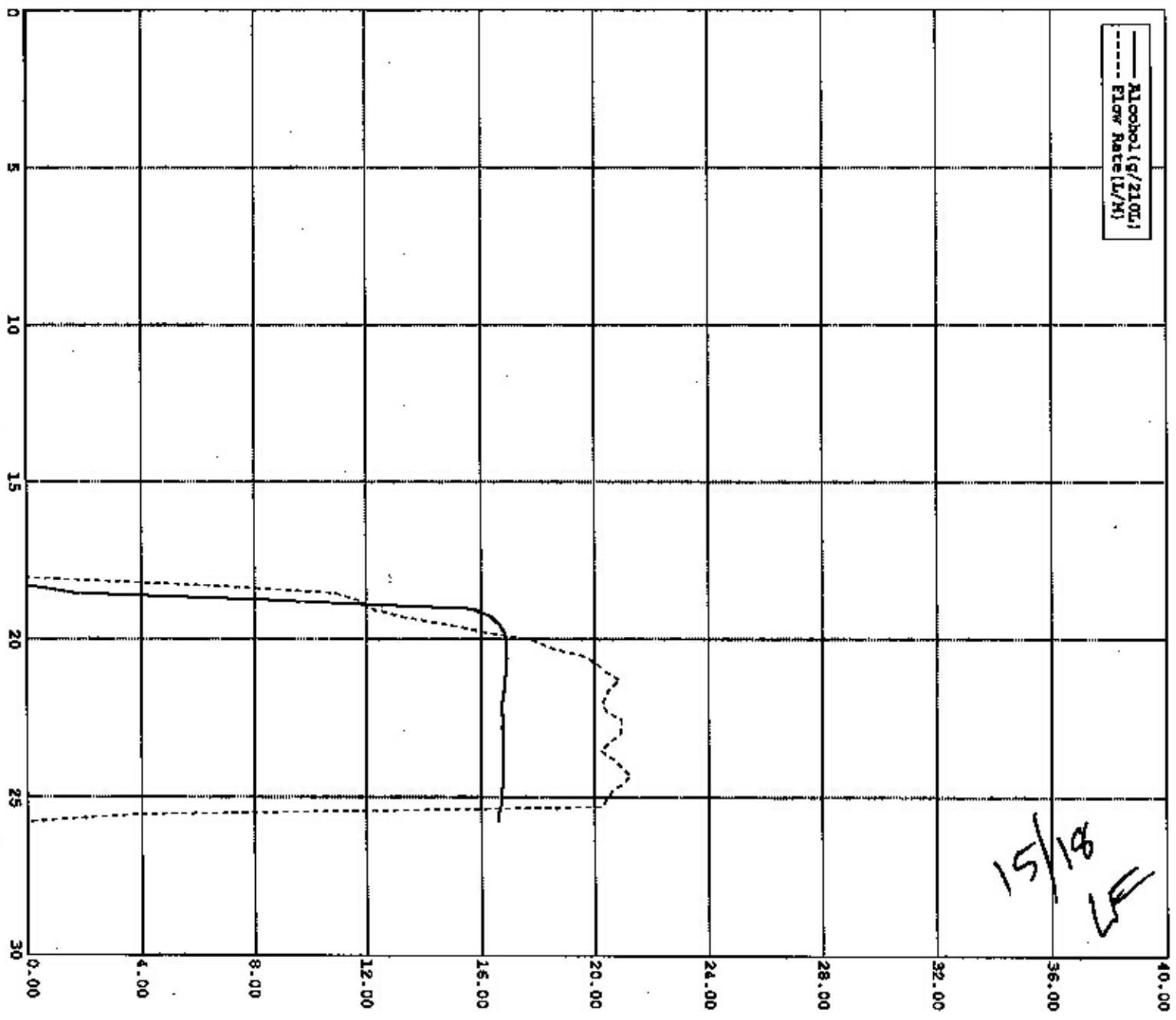
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 INTERFERENCE HIGH AND ACCEPTOR  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.80: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:46
BLANK TEST	0.000	15:47
INTERNAL STANDARD	VERIFIED	15:47
EXTERNAL STANDARD	0.078	15:47
BLANK TEST	0.000	15:48
SUBJECT SAMPLE	INTERFERENCE	15:48



SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dwt: 100689

Date: 03/07/2012  
Time: 15:53:08

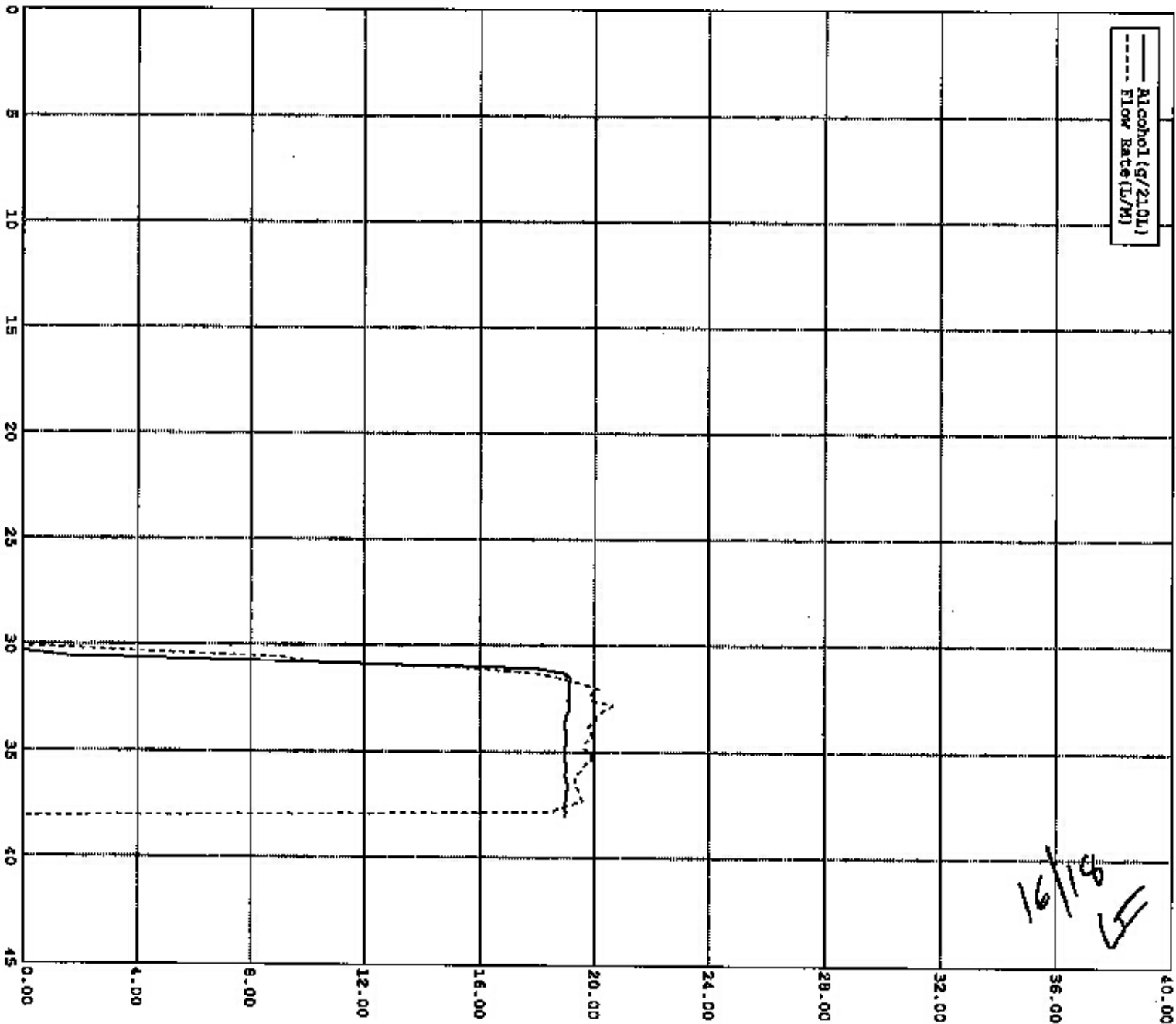
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
INTERERENCE EMOE AND IPA  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NORMAL: 0.080  
TARGET AM: 29.80: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:55
BLANK TEST	0.000	15:55
INTERNAL STANDARD	VERIFIED	15:55
EXTERNAL STANDARD	0.078	15:55
BLANK TEST	0.000	15:56
SUBJECT SAMPLE	INTERFERES	15:57





SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER SMC: 100689

Date: 03/07/2012  
 Time: 16:03:39

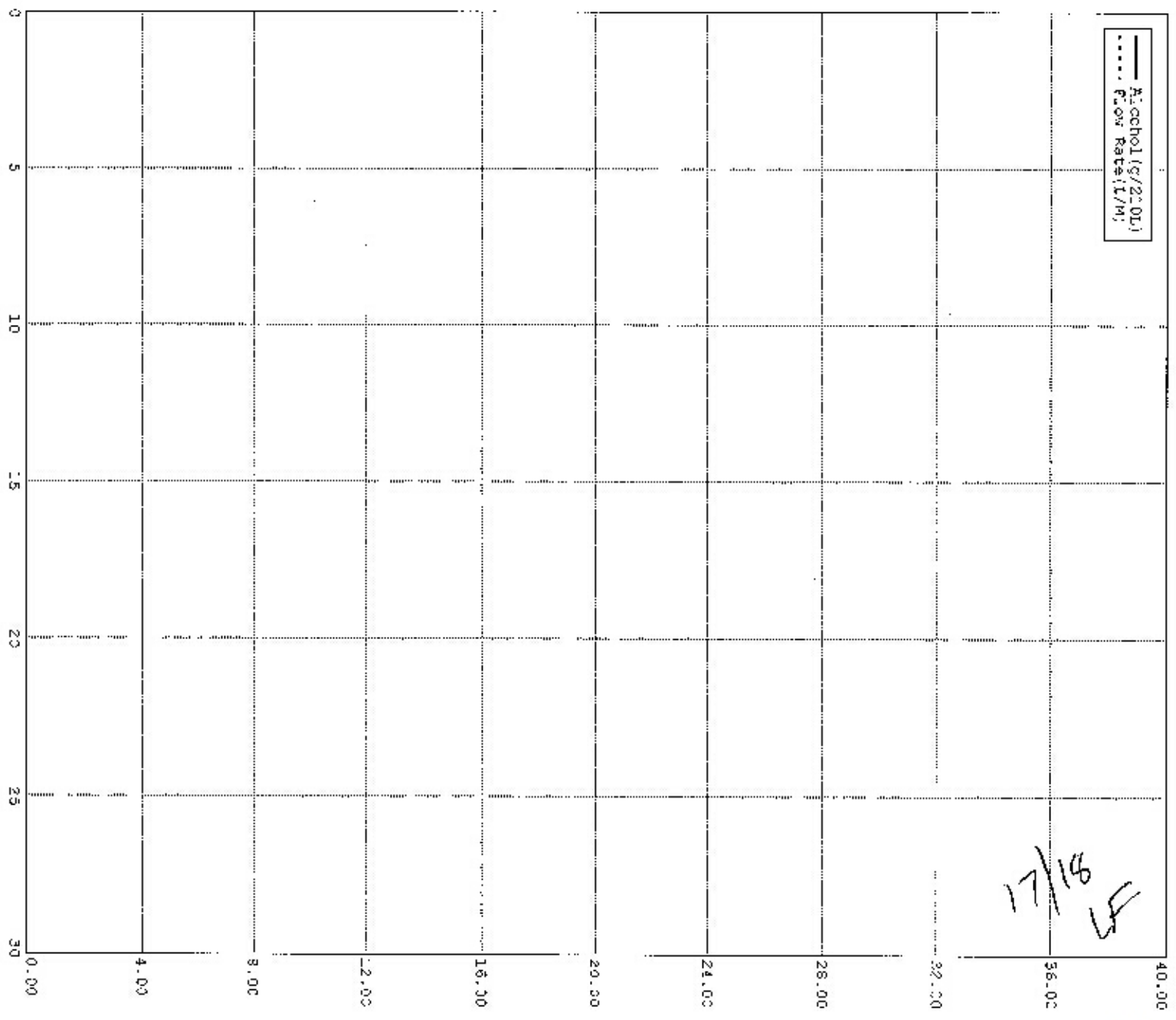
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 RFI XXXX  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.082  
 TARGET AT 29.79: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK  
 BLANK TEST PASSED 16:13  
 INTERNAL STANDARD VERIFIED 16:15  
 EXTERNAL STANDARD 0.078 16:15  
 BLANK TEST 0.000 16:14  
 APTI DETECTED



SUBJECT TEST

Alaska Department of Public Safety  
INVESTIGATION DISTRICT: 100689

Date: 03/08/2012  
Time: 09:01:41

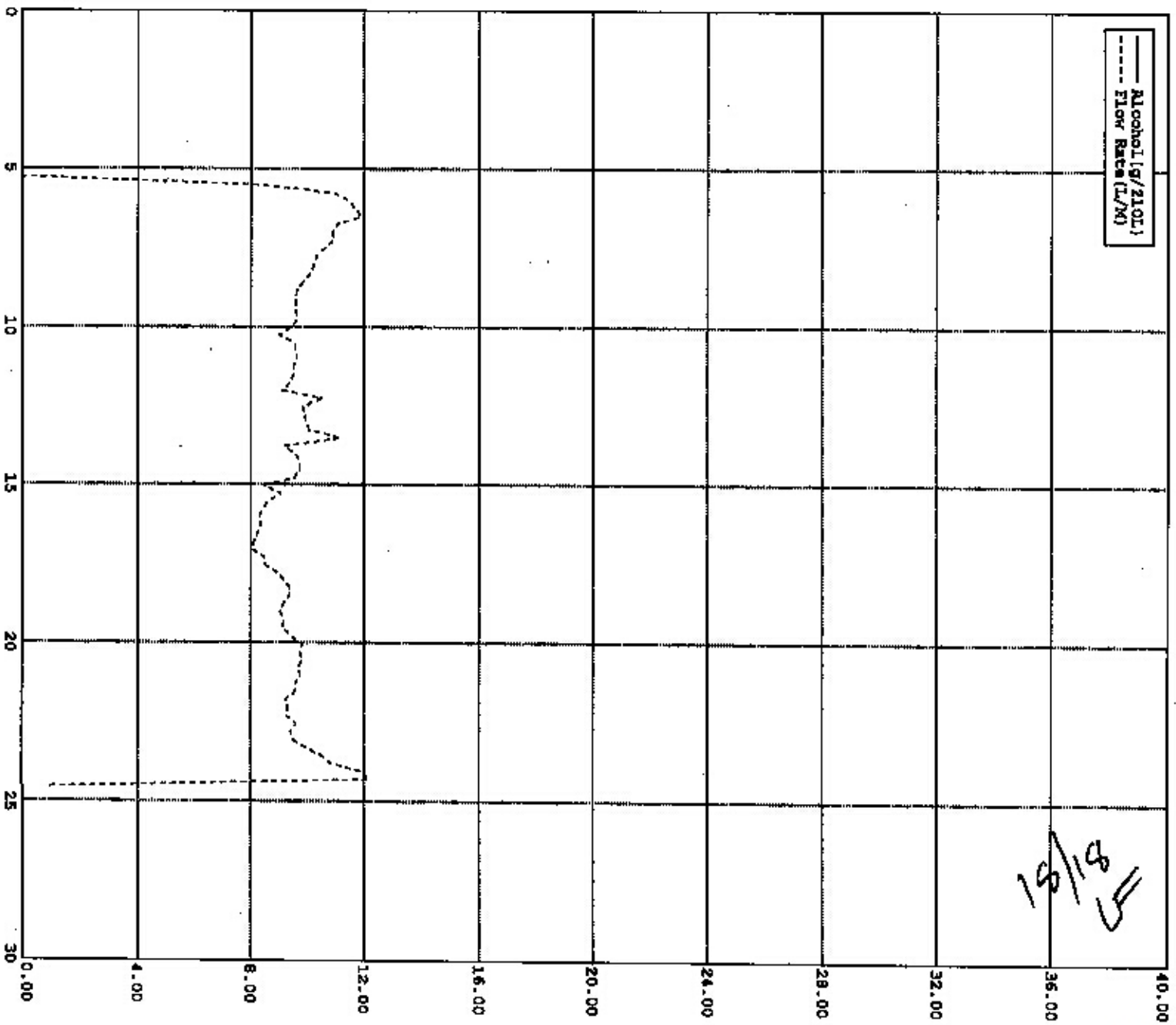
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CHARLES FOSTER  
OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.48: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:09
BLANK TEST	0.000	09:09
INTERNAL STANDARD	VERIFIED	09:10
EXTERNAL STANDARD	0.077	09:10
BLANK TEST	0.000	09:11
SUBJECT SAMPLE	0.000	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.078	09:12
BLANK TEST	0.000	09:13



Final page for report

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2/12/2014