

# Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

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

Version: DMCEF2012 R0  
Status: Active

Instrument S/N 100672

Analyst CRF

Start Date 3/2/12

Ran USB Fixer, updated software to 2.0, Ensured instrument was back centered  
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 1600 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf ILMO Lot 15210020A1 Exp 7/1/12
- ii. 0.040g/210L Mnf ILMO Lot 15210040A2 Exp 7/1/12
- iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 3/1/13
- iv. 0.100g/210L Mnf ILMO Lot 05611100A2 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 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 10/11/13
  - 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

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  N/A

End Date 3/6/12

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100672  
-----

Date: 03/02/2012  
Time: 14:35:04

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 = 5.573 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  
W

Technician Screen

-----  
DATAMASTER dmt: 100672  
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Date: 03/02/2012  
Time: 2:53 PM

Temperatures (°C)

Sample Cell: 49.3°C  
Breath Tube: 47.5°C

Current Barometer 29.2 in  
Volume (Ltr) 1.51

Settings

Lamp: 2.04 V  
Bias: 79 V  
Cooler: 1.91 V  
Chopper: 533 Hz

Voltages (V)

Flow: 1.06 V  
Detector: -0.082 V

3/18  
LF

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100672  
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Date: 09/22/2011  
Time: 09:34:34

Ca = 0.1500  
CAL = 0.995016    0.800 <= CAL < 1.200  
b1 = 0.0005    0.0000 <= b1 < 0.0040  
b2 = 0.0031    0.0010 <= b2 < 0.0100  
b3 = 0.0002    0.0000 <= b3 < 0.0040  
Xq = 0.1044    0.0500 <= Xq < 0.2000  
a21 = 1.140742    1.050 <= a21 < 1.300  
a31 = 0.553722    0.300 <= a31 < 0.800

4/18  
WF

SUBJECT TEST

Alaska Department of Public Safety  
 DATABASE dmt: 100672

Date: 03/02/2012  
 Time: 15:38:19

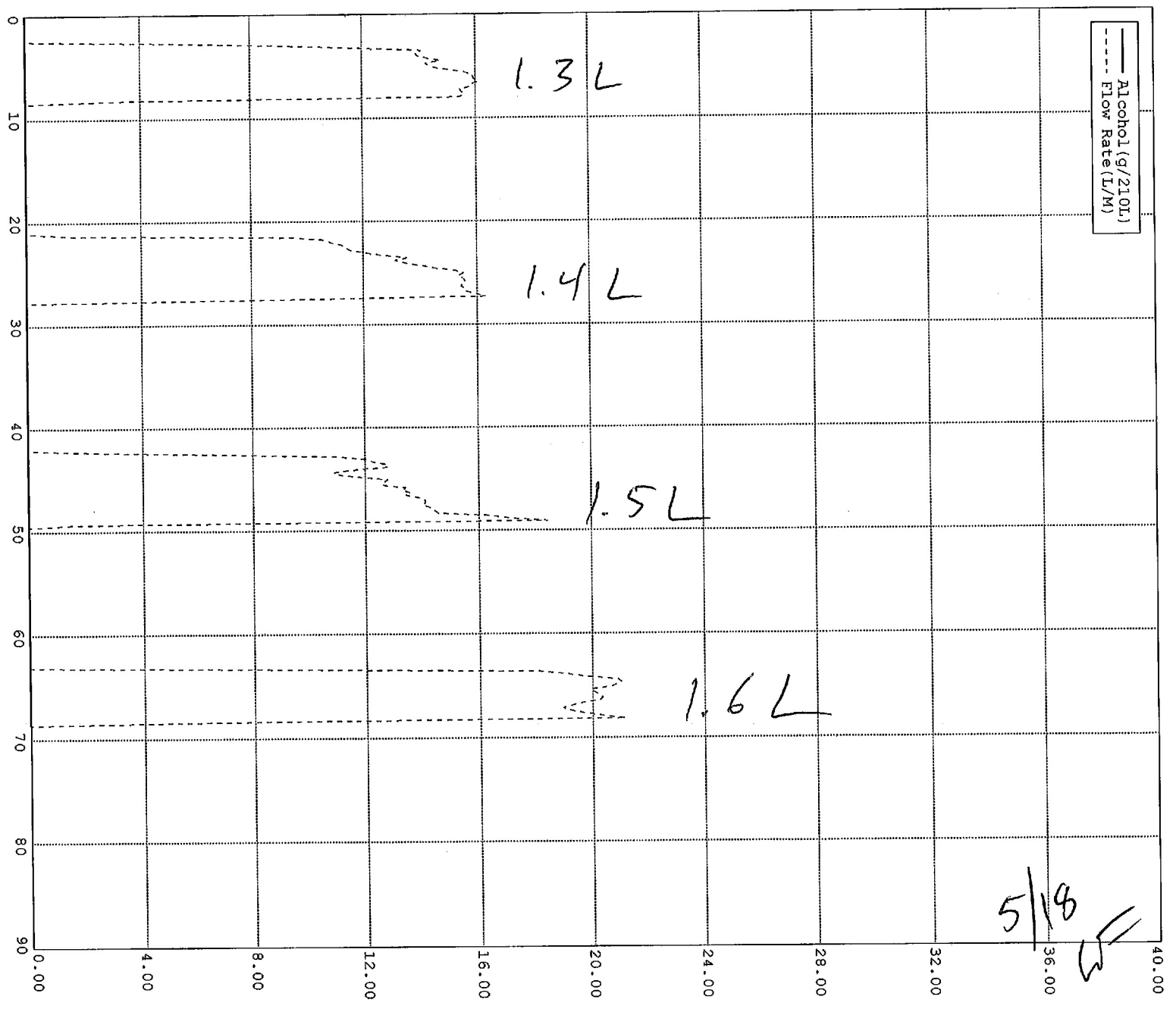
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 MINIMUM VOLUME  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.23: 0.078  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:39
BLANK TEST	0.000	15:39
INTERNAL STANDARD	VERIFIED	15:39
EXTERNAL STANDARD	0.077	15:39
BLANK TEST	0.000	15:40
SUBJECT SAMPLE	0.000	15:41
BLANK TEST	0.000	15:42
EXTERNAL STANDARD	0.078	15:43
BLANK TEST	0.000	15:44



LINEARITY CHECK

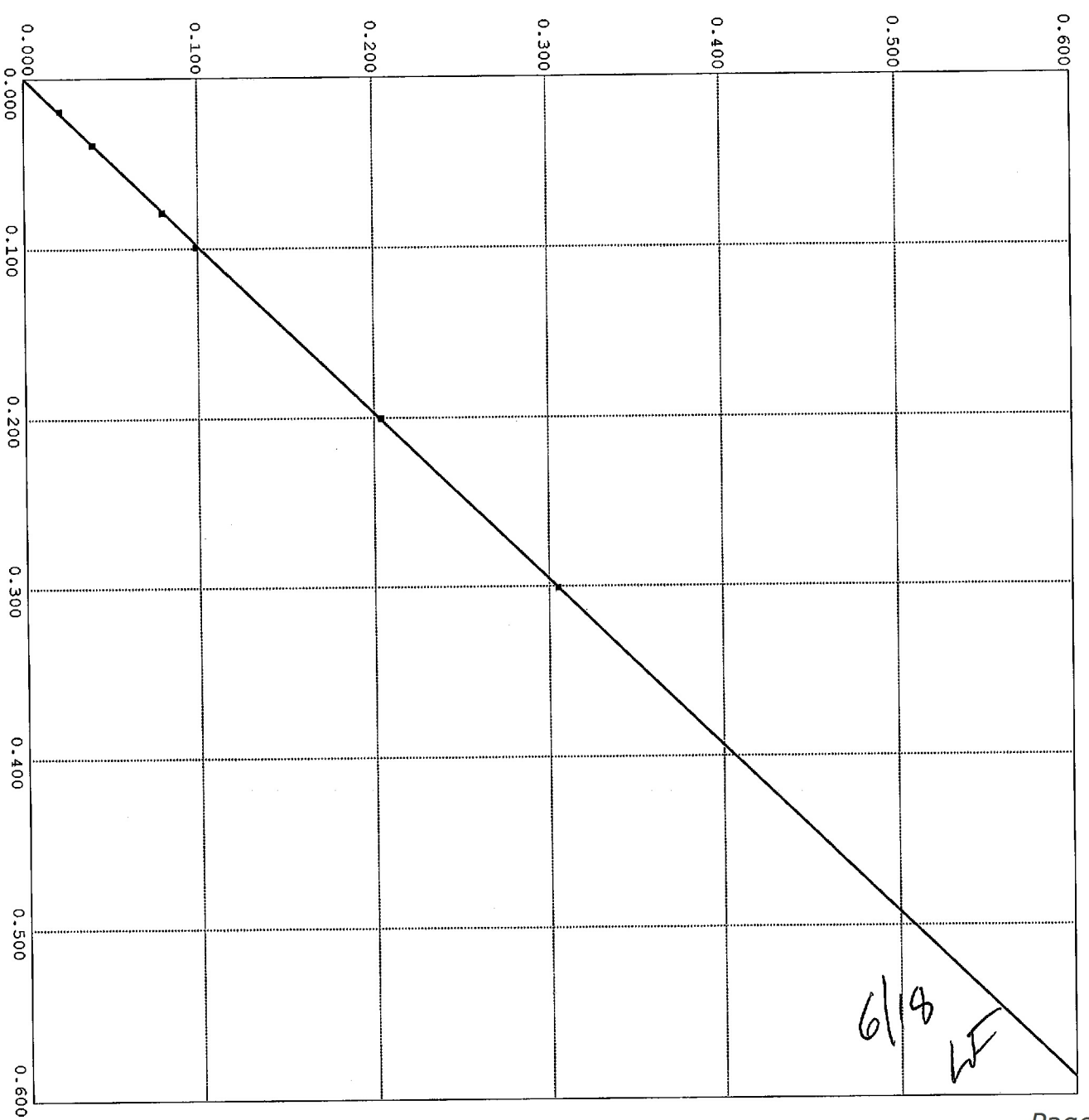
Alaska Department of Public Safety  
 DATAMASTER dmt: 100672

Date: 03/05/2012  
 Time: 09:21:17

SUPERVISOR NAME:  
 CHARLES FOSTER  
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0212	0.0002
0.039	0.0403	0.0003
0.079	0.0799	0.0002
0.099	0.0996	0.0001
0.200	0.2050	0.0003
0.300	0.3058	0.0004

SLOPE = 1.017728  
 R<sup>2</sup> = 0.999888



LINEARITY CHECK: Control Test 1

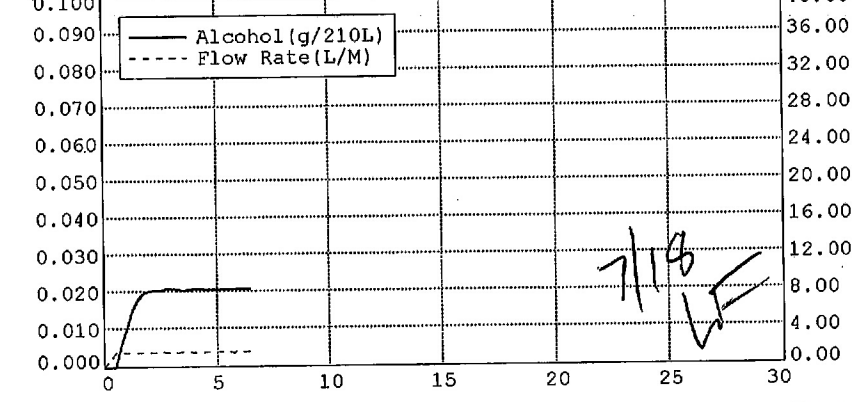
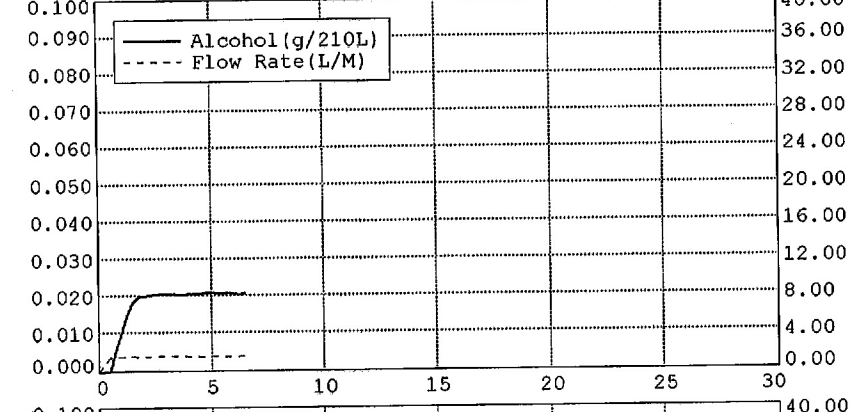
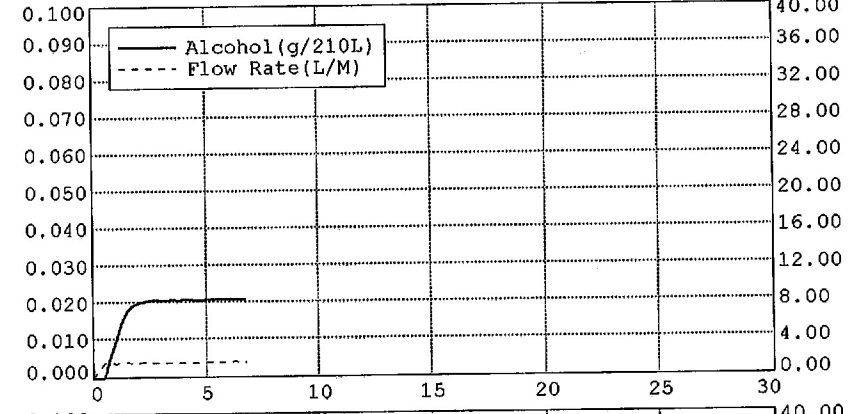
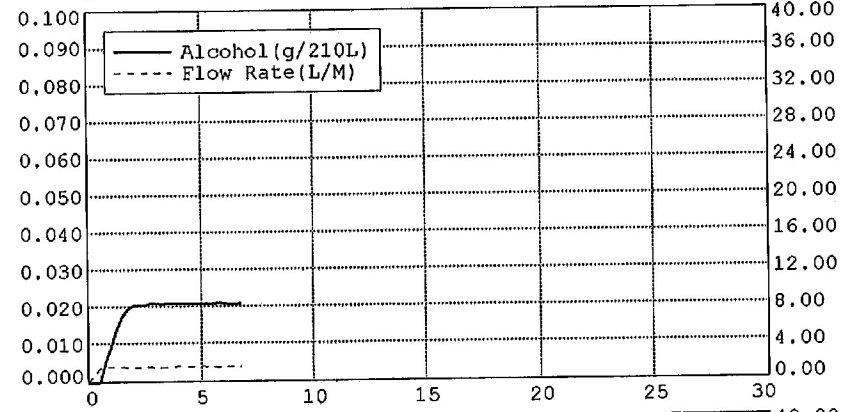
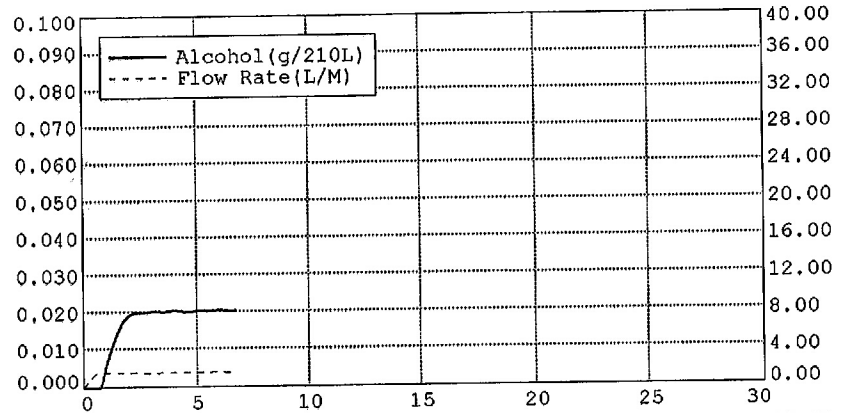
Alaska Department of Public Safety  
DATAMASTER dmt: 100672

Date: 03/05/2012  
Time: 09:24:46

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.020  
TARGET AT 29.92: 0.019  
LOT #: 15210020A1  
EXPIRATION: 07/01/2012

BLANK TEST	0.000	09:25
INTERNAL STANDARD	VERIFIED	09:25
EXTERNAL STANDARD	0.020	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.021	09:27
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.021	09:28
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.021	09:29
BLANK TEST	0.000	09:30
EXTERNAL STANDARD	0.021	09:30
BLANK TEST	0.000	09:31

Average = 0.0212  
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

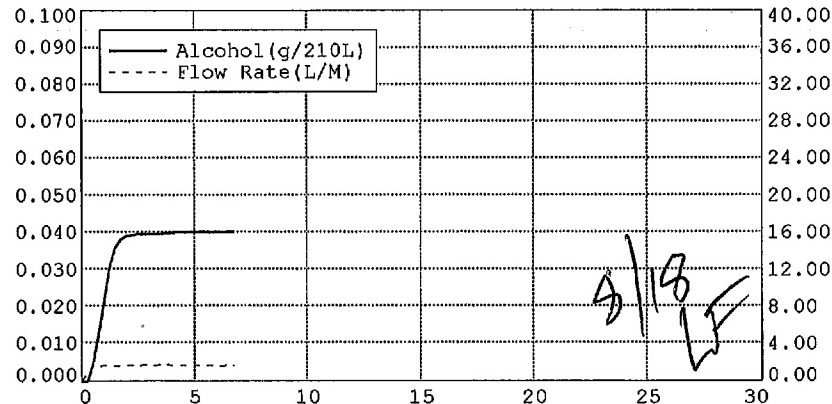
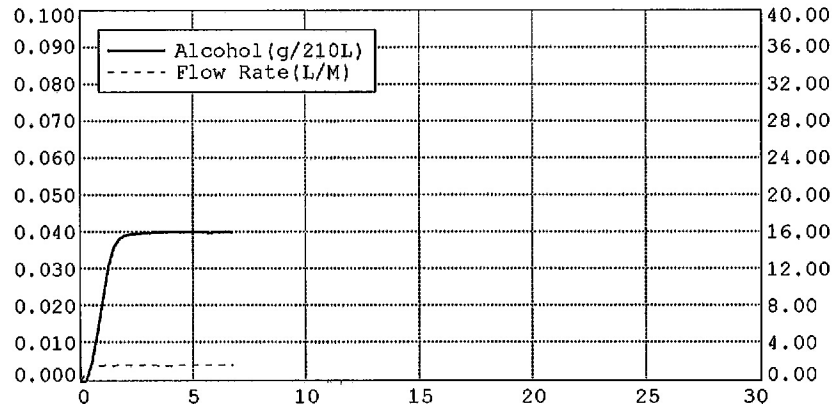
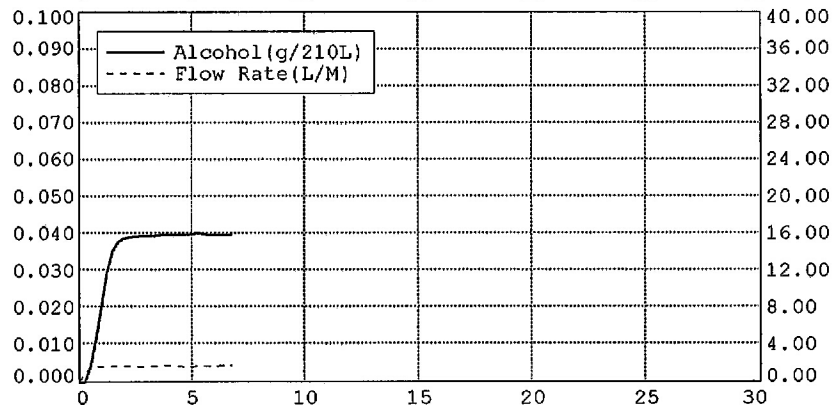
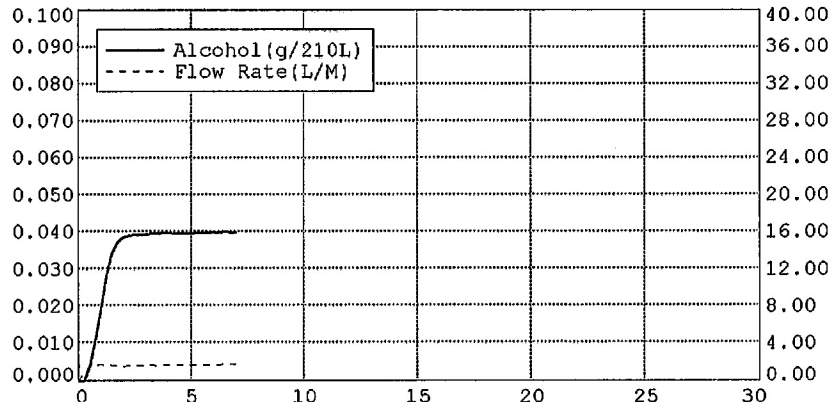
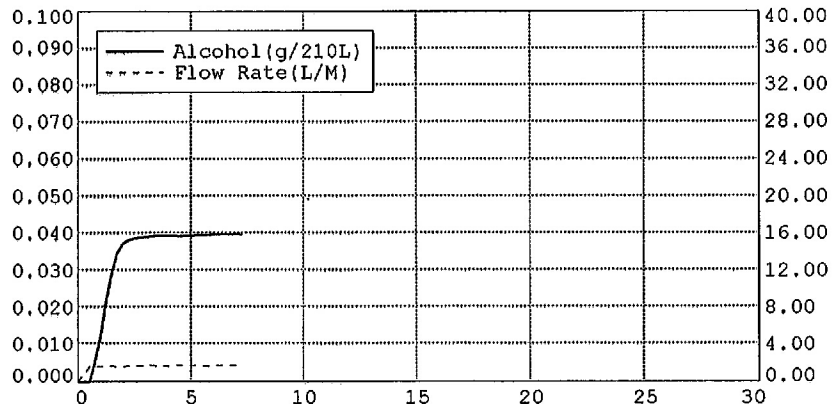
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 Alaska Department of Public Safety  
 DATAMASTER dmt: 100672  
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Date: 03/05/2012  
 Time: 09:32:22

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.040  
 TARGET AT 29.92: 0.039  
 LOT #: 15210040A2  
 EXPIRATION: 07/01/2012

BLANK TEST	0.000	09:33
INTERNAL STANDARD	VERIFIED	09:33
EXTERNAL STANDARD	0.040	09:34
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.040	09:35
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.040	09:36
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.040	09:37
BLANK TEST	0.000	09:38
EXTERNAL STANDARD	0.040	09:38
BLANK TEST	0.000	09:39

Average = 0.0403  
 Std Dev = 0.0003





LINEARITY CHECK: Control Test 3

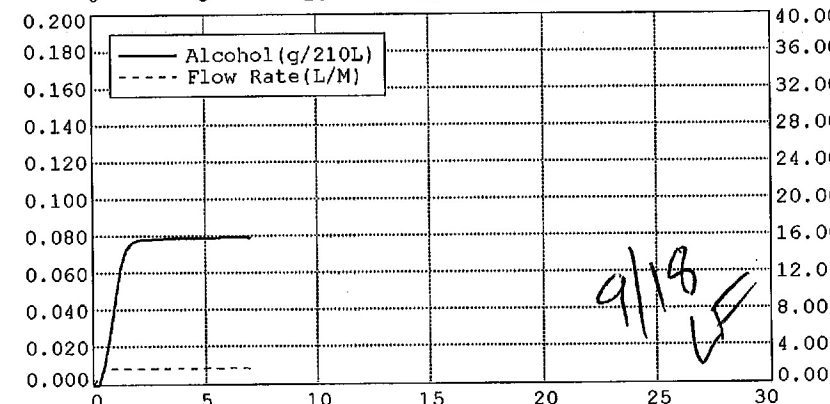
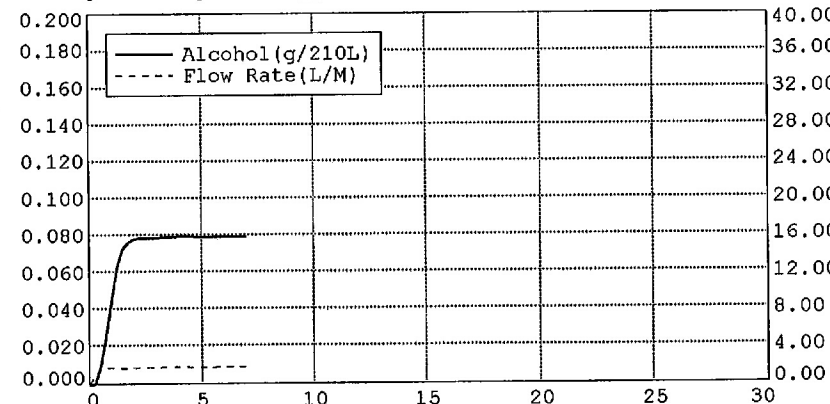
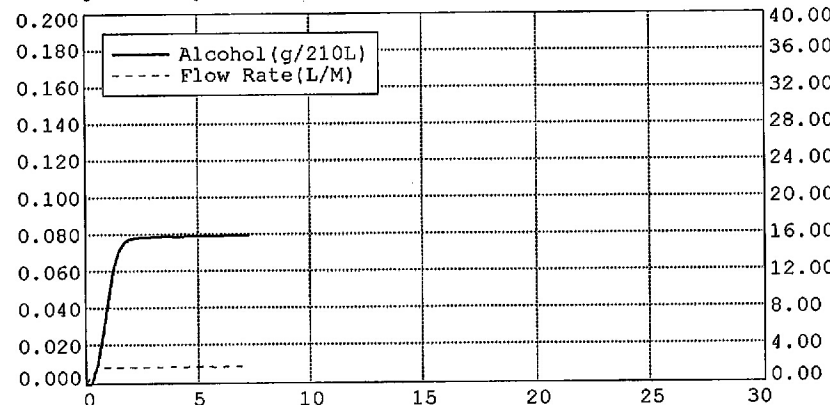
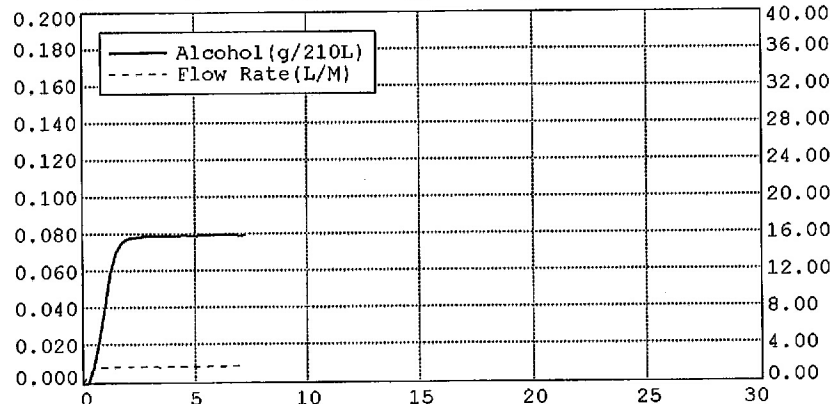
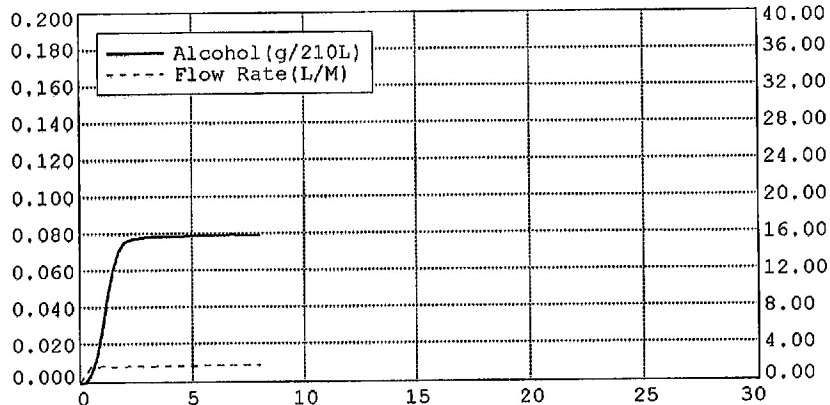
Alaska Department of Public Safety  
DATAMASTER dmt: 100672

Date: 03/05/2012  
Time: 09:39:56

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.92: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:41
INTERNAL STANDARD	VERIFIED	09:41
EXTERNAL STANDARD	0.079	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.080	09:42
BLANK TEST	0.000	09:43
EXTERNAL STANDARD	0.080	09:43
BLANK TEST	0.000	09:44
EXTERNAL STANDARD	0.079	09:44
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.079	09:45
BLANK TEST	0.000	09:46

Average = 0.0799  
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

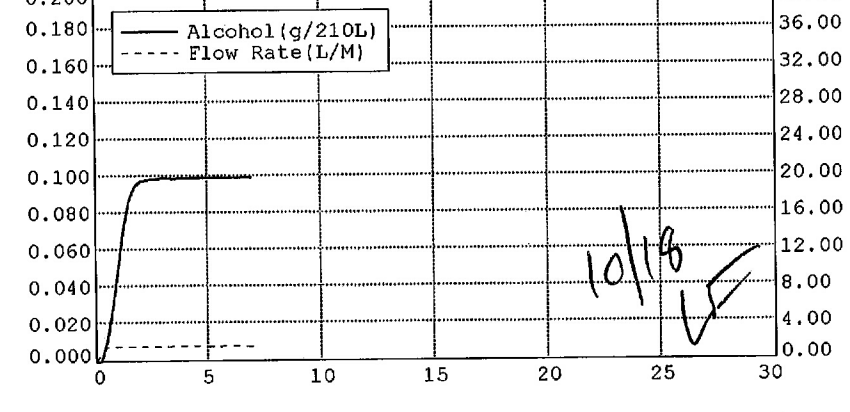
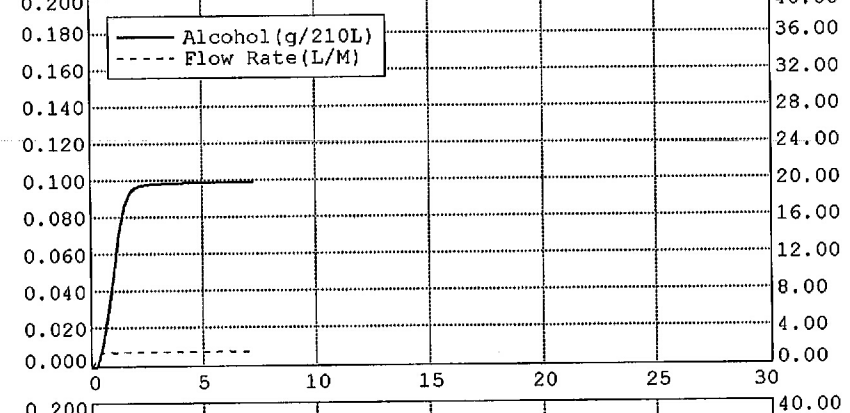
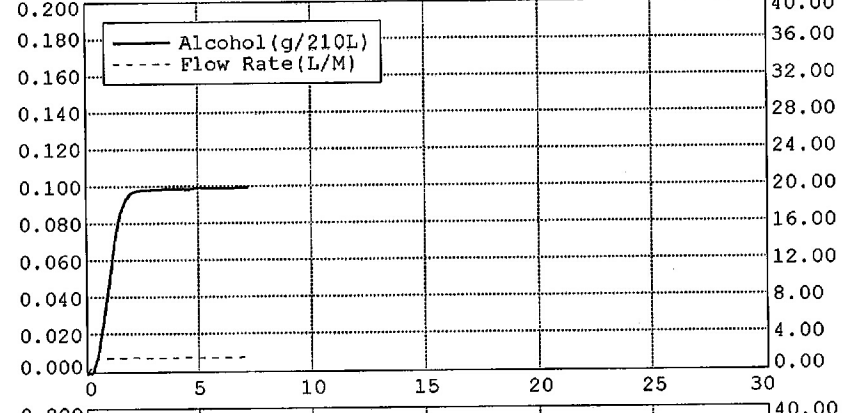
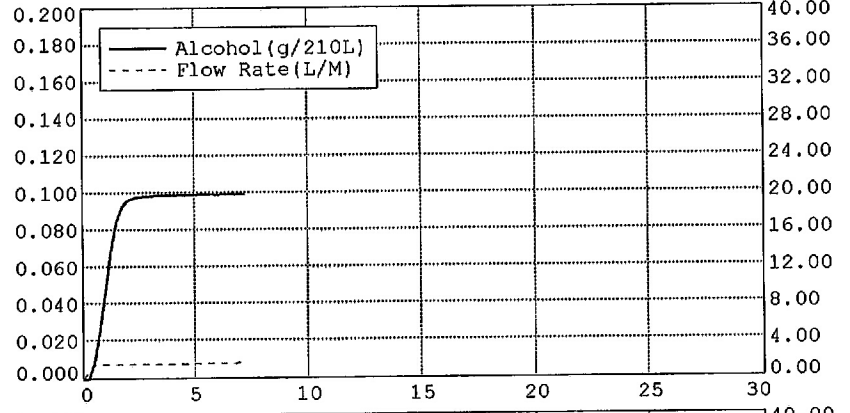
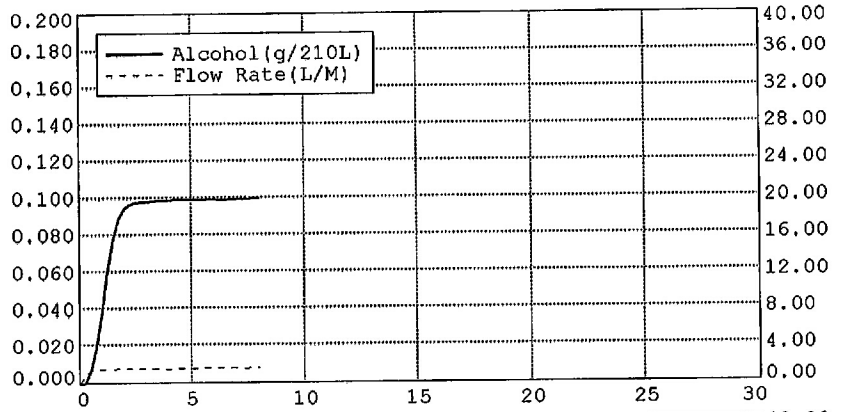
Alaska Department of Public Safety  
DATAMASTER dmt: 100672

Date: 03/05/2012  
Time: 09:51:02

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.100  
TARGET AT 29.91: 0.099  
LOT #: 05611100A2  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:52
INTERNAL STANDARD	VERIFIED	09:52
EXTERNAL STANDARD	0.099	09:52
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.099	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.099	09:54
BLANK TEST	0.000	09:55
EXTERNAL STANDARD	0.099	09:55
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.099	09:56
BLANK TEST	0.000	09:57

Average = 0.0996  
Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

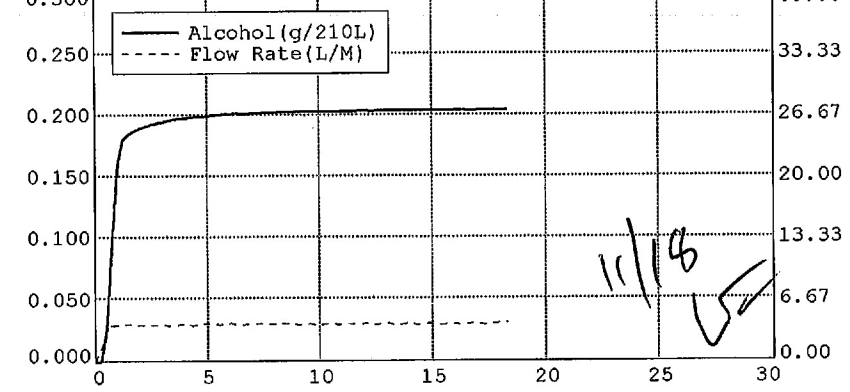
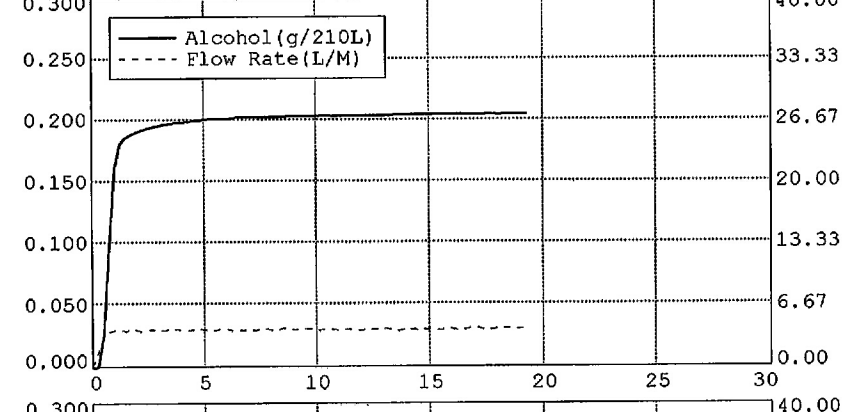
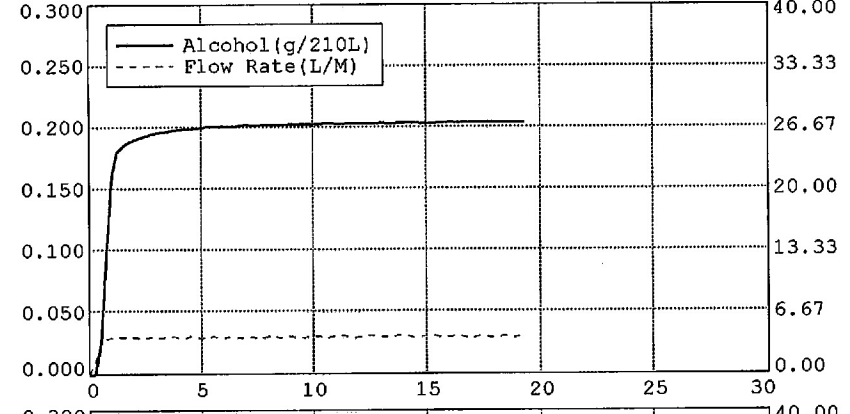
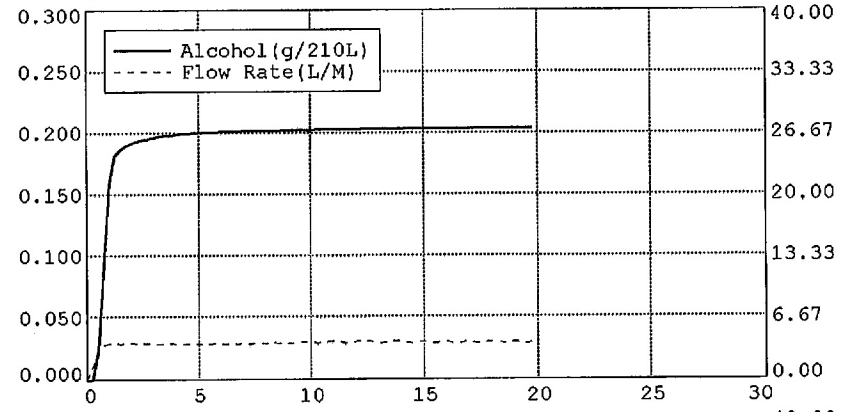
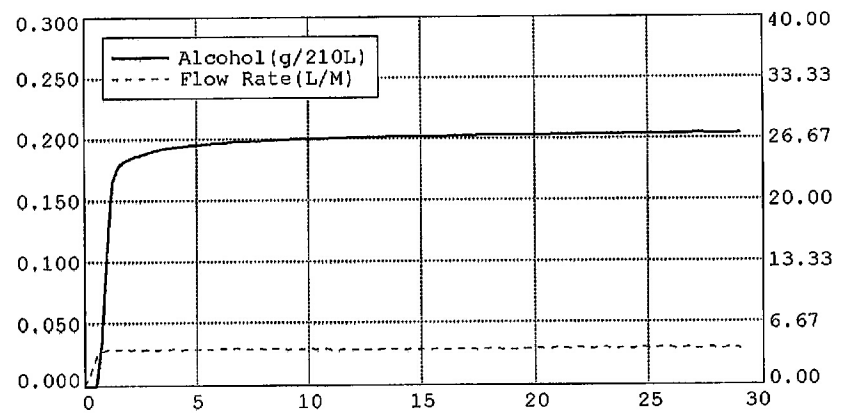
Alaska Department of Public Safety  
 DATAMASTER dmt: 100672

Date: 03/05/2012  
 Time: 10:03:16

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

BLANK TEST	0.000	10:04
INTERNAL STANDARD	VERIFIED	10:04
EXTERNAL STANDARD	0.205	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.204	10:06
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.204	10:07
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.205	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.204	10:10
BLANK TEST	0.000	10:11

Average = 0.2050  
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
 DATAMASTER dmt: 100672

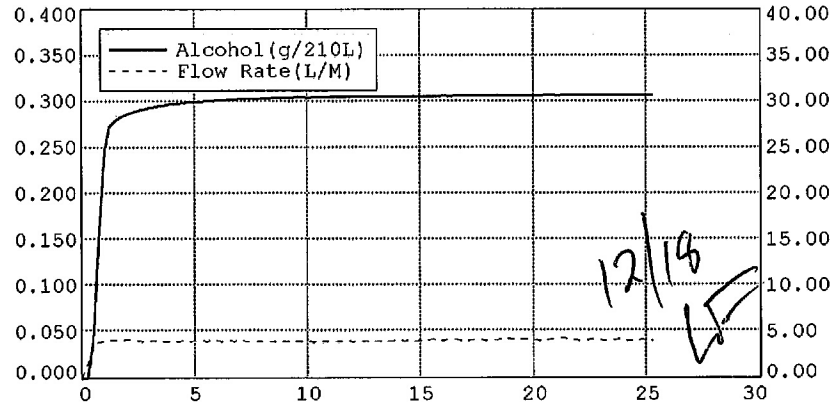
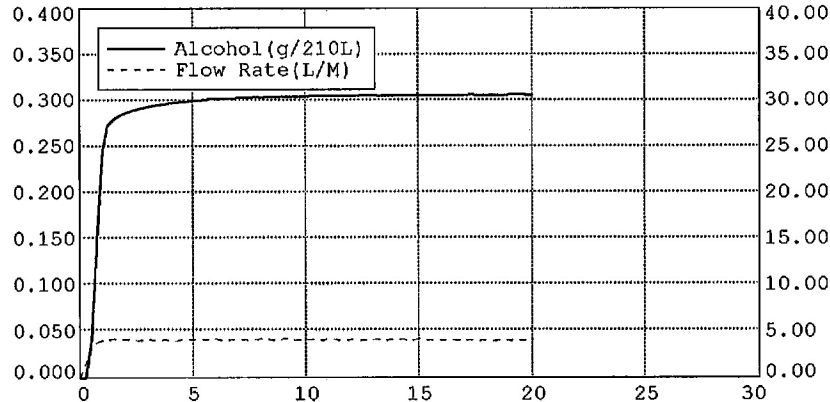
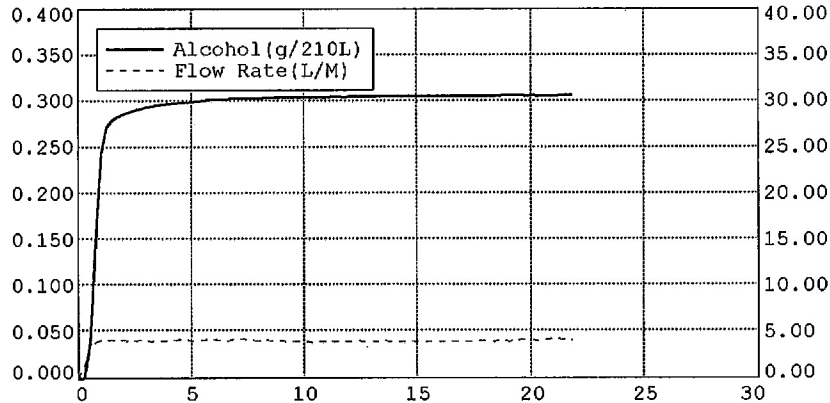
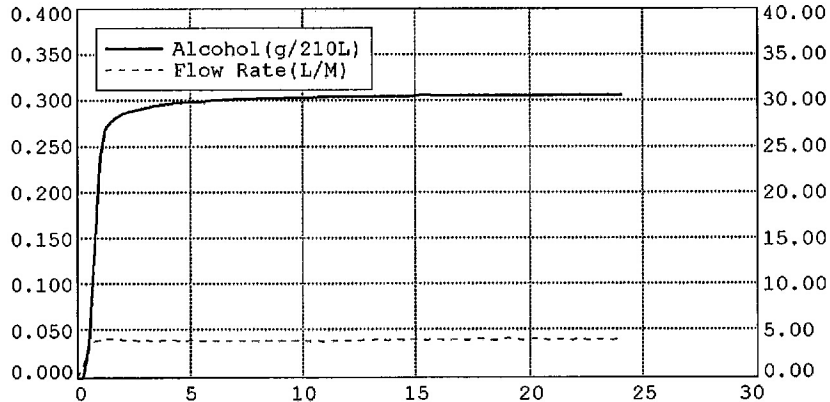
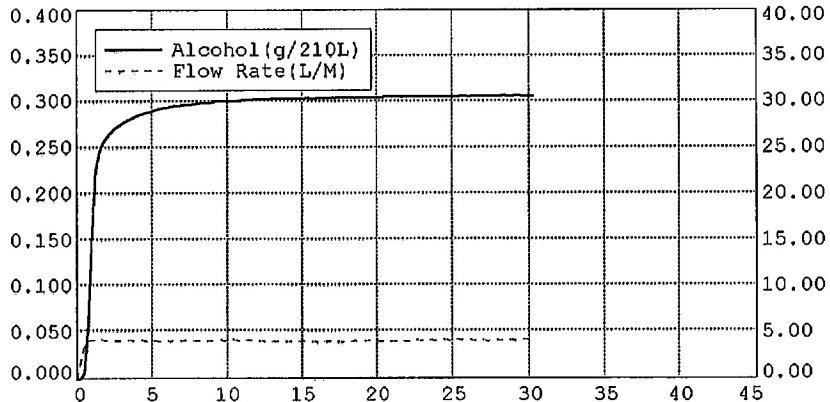
Date: 03/05/2012  
 Time: 10:14:29

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	10:15
INTERNAL STANDARD	VERIFIED	10:15
EXTERNAL STANDARD	0.305	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.305	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.305	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.305	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.306	10:22
BLANK TEST	0.000	10:23

Average = 0.3058  
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100672

Date: 03/05/2012  
Time: 10:29:55

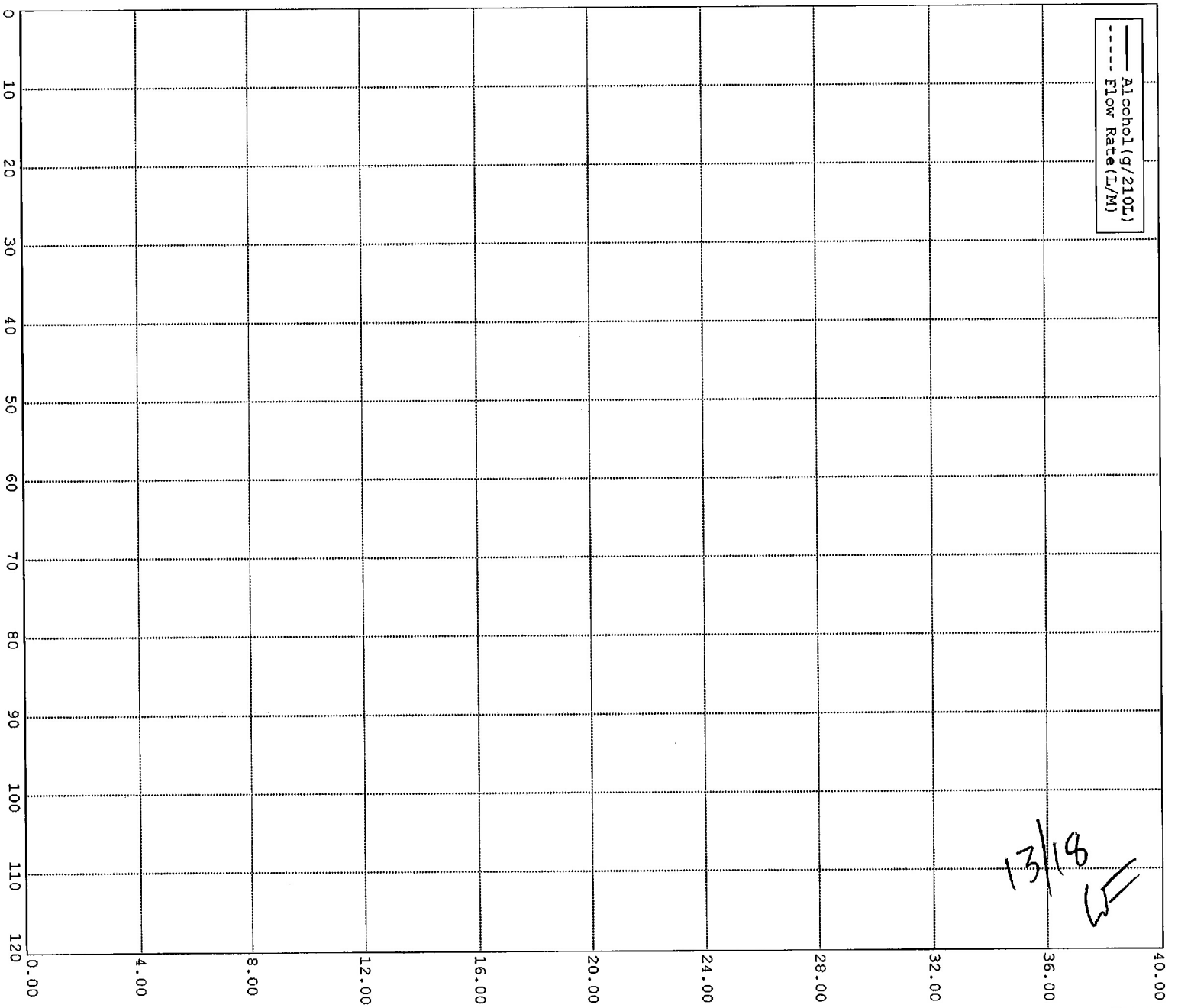
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
INCOMPLETE XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.90: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:30
BLANK TEST	0.000	10:31
INTERNAL STANDARD	VERIFIED	10:31
EXTERNAL STANDARD	0.078	10:31
BLANK TEST	0.000	10:32
SUBJECT SAMPLE	INCOMPLETE	10:34



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100672

Date: 03/05/2012  
Time: 14:22:32

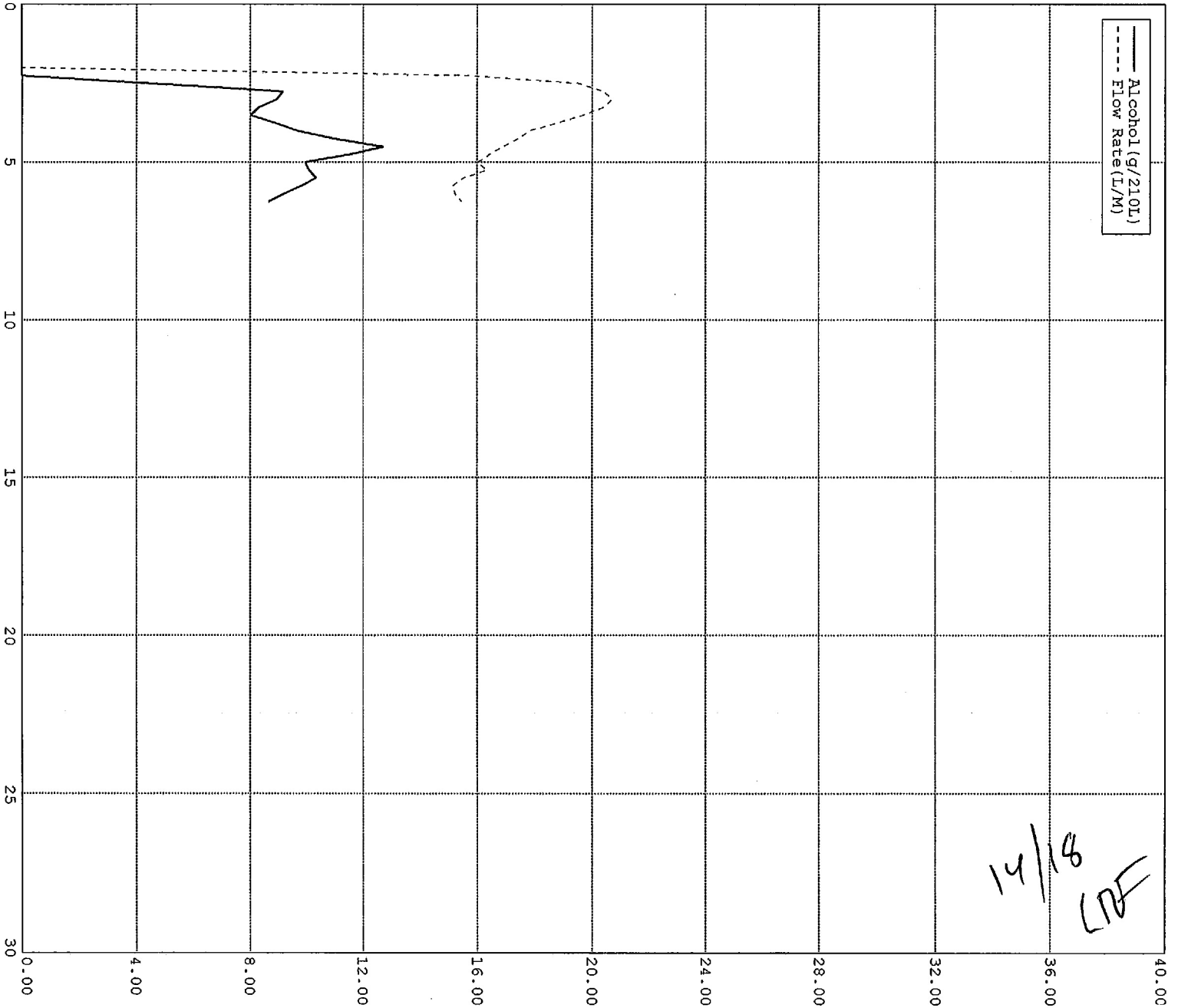
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

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 29.83: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:25
BLANK TEST	0.000	14:25
INTERNAL STANDARD	VERIFIED	14:25
EXTERNAL STANDARD	0.079	14:25
BLANK TEST	0.000	14:26
SUBJECT SAMPLE	INVALID	14:27



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100672

Date: 03/05/2012  
Time: 14:52:17

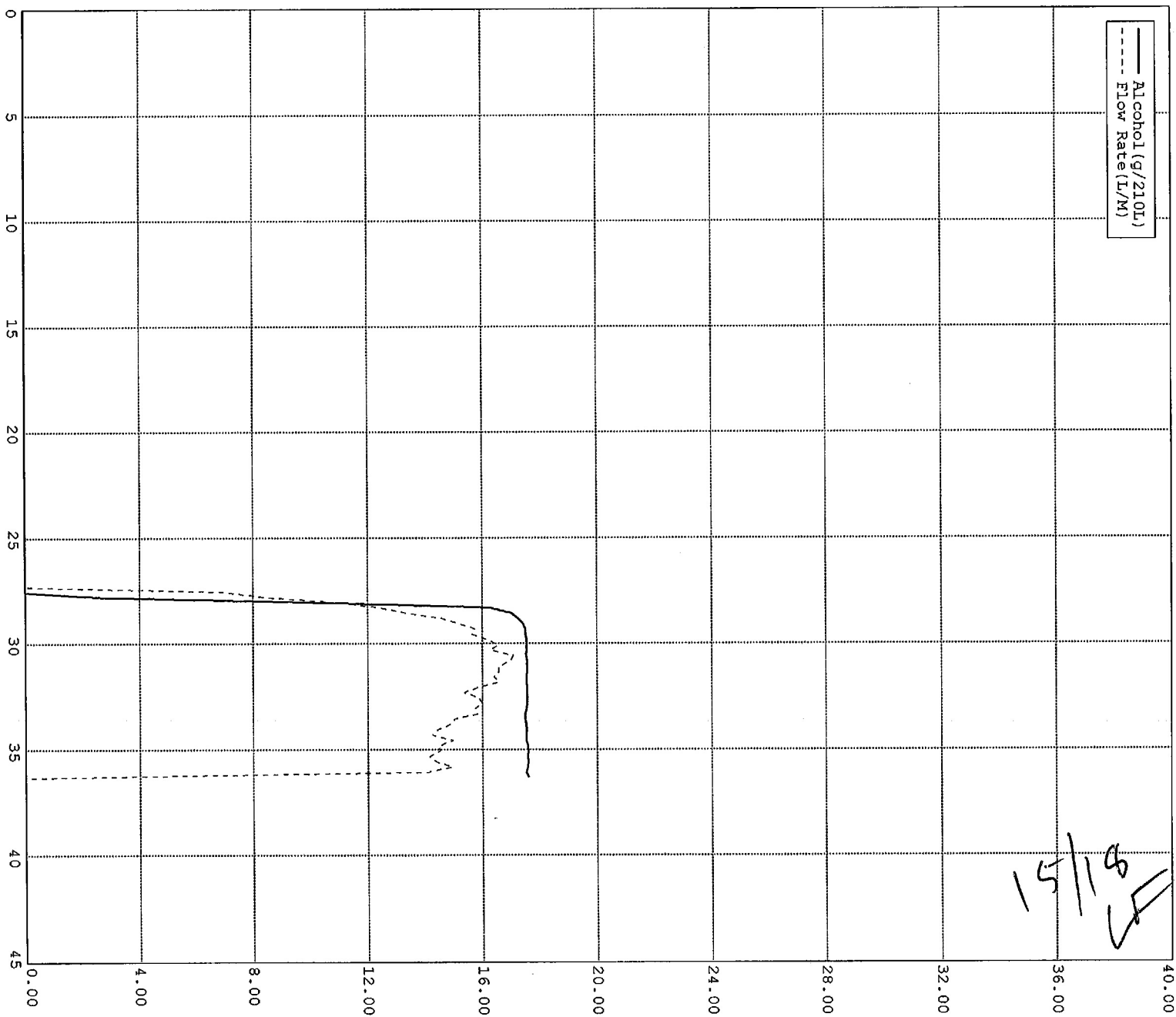
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

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 29.83: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:53
BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
EXTERNAL STANDARD	0.078	14:53
BLANK TEST	0.000	14:54
SUBJECT SAMPLE	INTERFERENCE	14:55



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dnt: 100672

Date: 03/05/2012  
Time: 14:40:30

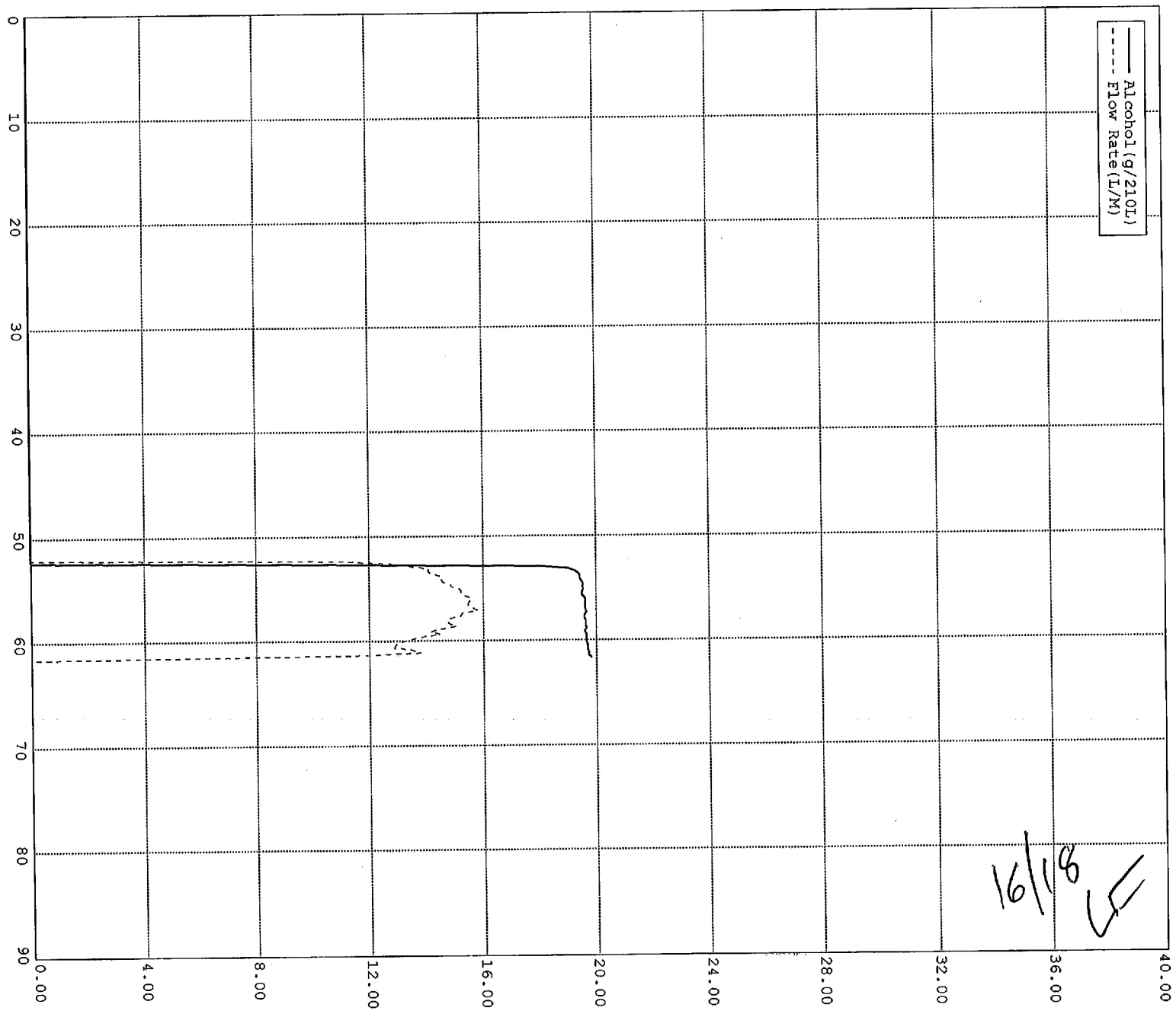
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

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 AM 29.83: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:44
BLANK TEST	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:45
EXTERNAL STANDARD	0.079	14:45
BLANK TEST	0.000	14:46
SUBJECT SAMPLE	INTERFERENCE	14:47





SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100672

Date: 03/05/2012  
Time: 14:31:28

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

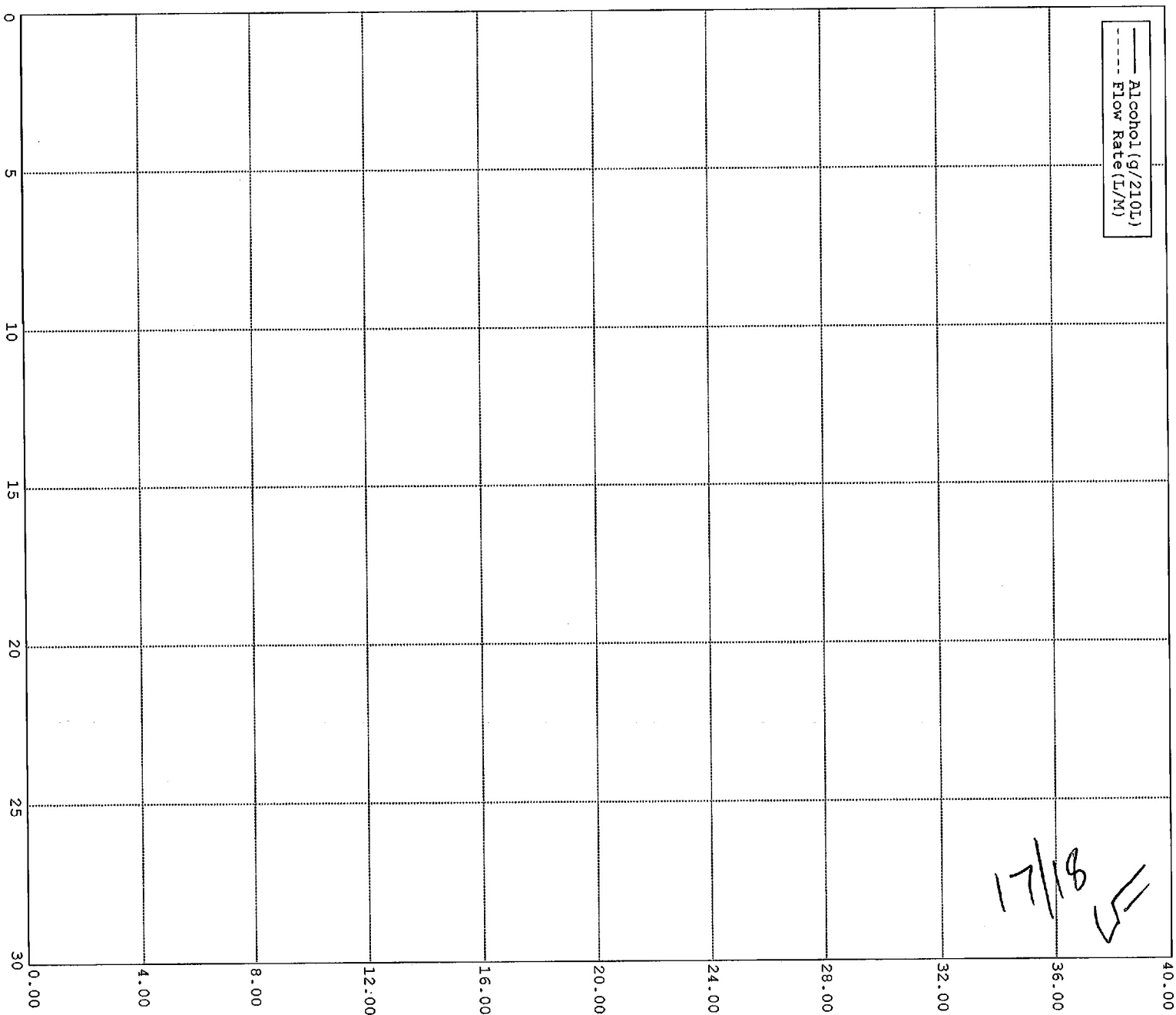
OPERATOR NAME:  
RFI XXXX  
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.84: 0.079  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK  
BLANK TEST PASSED 14:32  
INTERNAL STANDARD VERIFIED 14:33  
EXTERNAL STANDARD 0.079 14:33  
BLANK TEST 0.000 14:34

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100672

Date: 03/05/2012  
 Time: 15:46:45

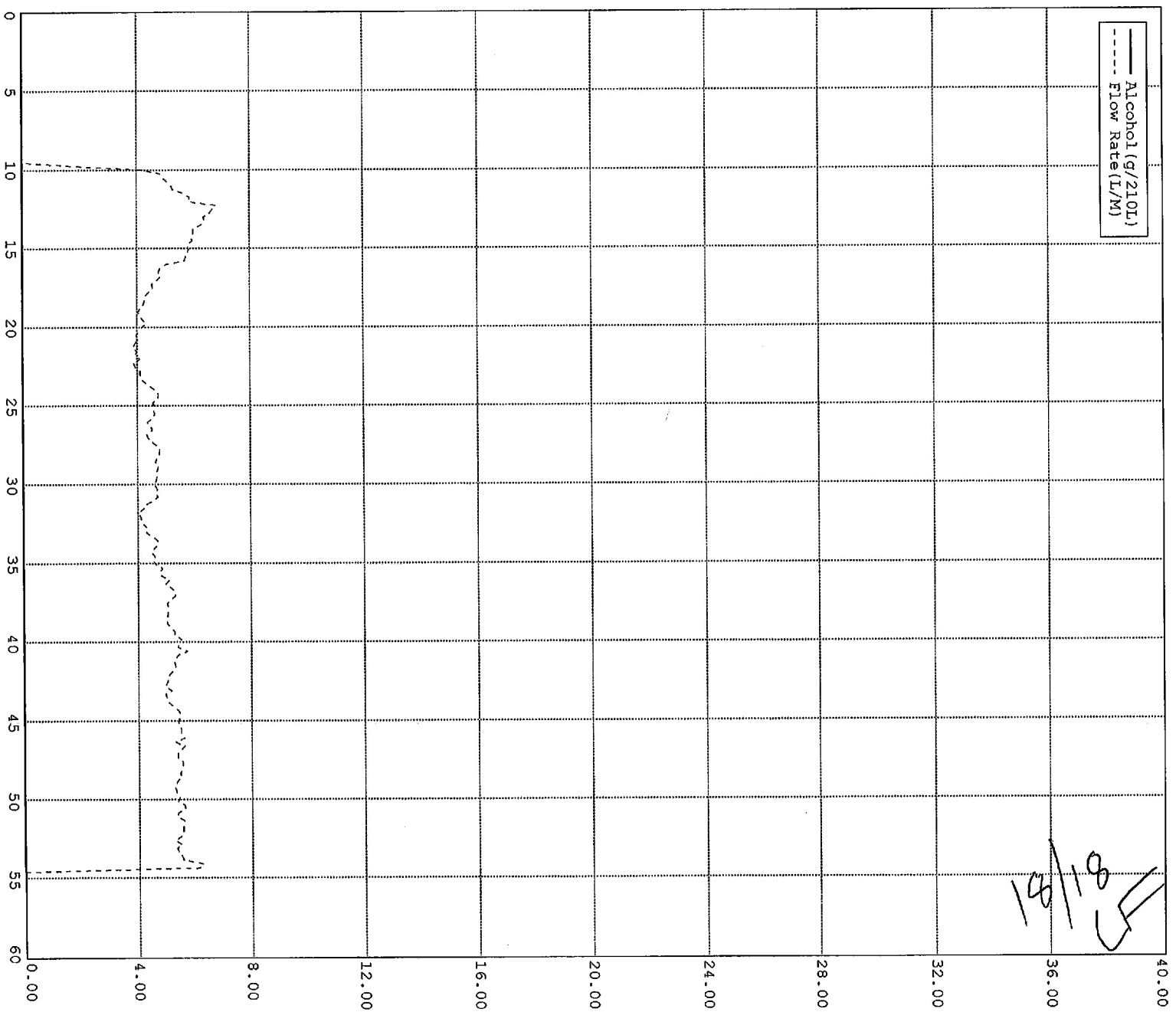
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 CHARLES FOSTER  
 OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.79: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:49
BLANK TEST	0.000	15:49
INTERNAL STANDARD	VERIFIED	15:49
EXTERNAL STANDARD	0.079	15:49
BLANK TEST	0.000	15:50
SUBJECT SAMPLE	0.000	15:51
BLANK TEST	0.000	15:52
EXTERNAL STANDARD	0.079	15:52
BLANK TEST	0.000	15:53



Final page for report

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11/19/2013