

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100368 Analyst CWF Start Date 4/27/12

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 1600 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 0761100A3 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 CWF M/A

End Date 4/30/12

1/19
CWF

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100368

Date: 04/27/2012
Time: 11:01:22

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 45.3°C PASSED

PUMP INFO
Flow Rate = 5.276 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
CNE

Technician Screen

DATAMASTER dmt: 100368

Date: 04/27/2012
Time: 11:17 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 44.2°C

Current Barometer 29.6 in
Volume (Ltr) 1.43

Settings

Lamp: 1.67 V
Bias: 79 V
Cooler: 1.71 V
Chopper: 550 Hz

Voltages (V)

Flow: 1.07 V
Detector: -0.062 V

3/19
CNF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100368

Date: 01/17/2011
Time: 13:00:13

Ca = 0.0990
CAL = 0.991906 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0054 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0751 0.0500 <= Xq < 0.2000
a21 = 1.187971 1.050 <= a21 < 1.300
a31 = 0.428468 0.300 <= a31 < 0.800

4/19
CNF

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100368

Date: 04/27/2012
Time: 13:24:23

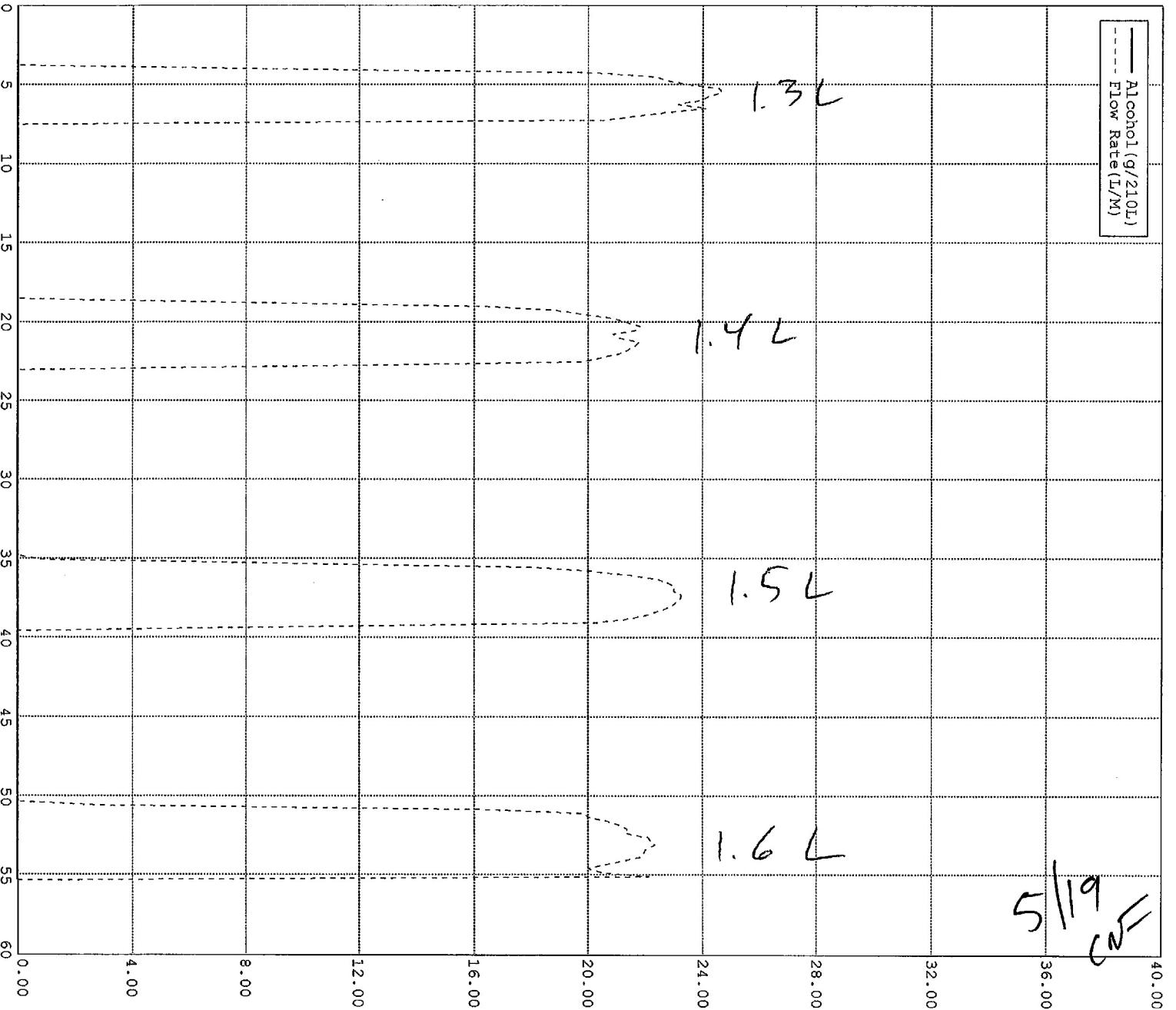
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.56: 0.079
LOF #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:30
BLANK TEST	0.000	13:30
INTERNAL STANDARD	0.081	13:30
EXTERNAL STANDARD	0.000	13:31
BLANK TEST	0.000	13:32
SUBJECT SAMPLE	0.000	13:33
BLANK TEST	0.080	13:34
EXTERNAL STANDARD	0.000	13:34
BLANK TEST	0.000	13:34



LINEARITY CHECK

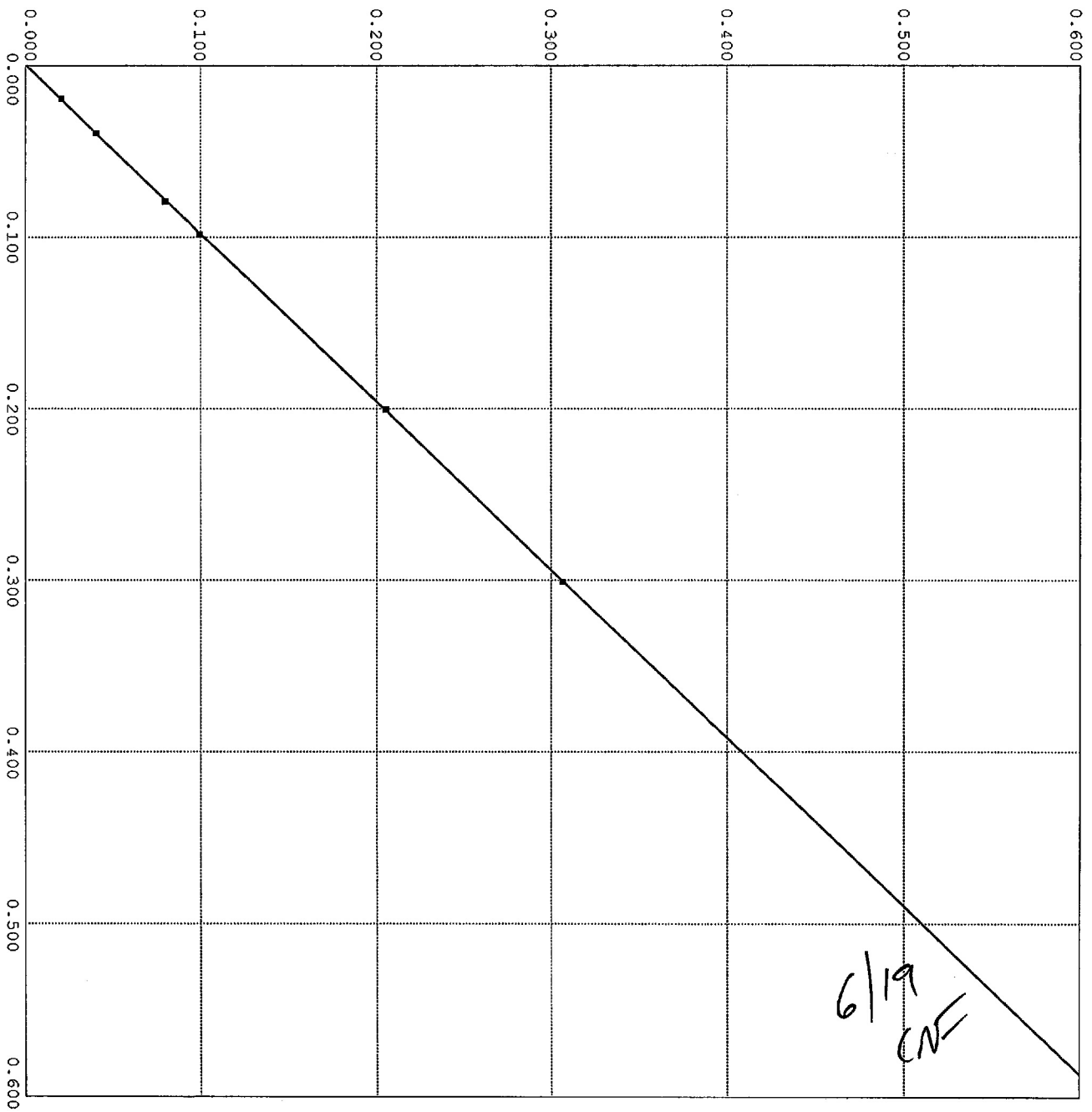
 Alaska Department of Public Safety
 DATAMASTER dmt: 100368

Date: 04/27/2012
 Time: 13:57:31

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0211	0.0003
0.039	0.0410	0.0002
0.079	0.0806	0.0001
0.098	0.1005	0.0003
0.200	0.2062	0.0002
0.300	0.3073	0.0005

SLOPE = 1.021883
 R² = 0.999951



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100368

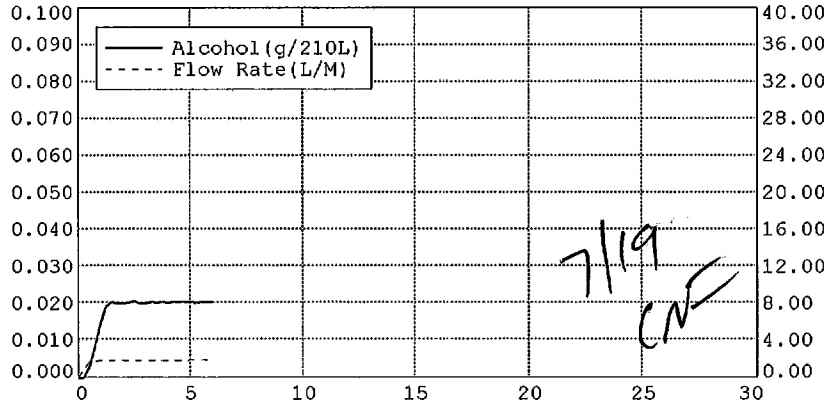
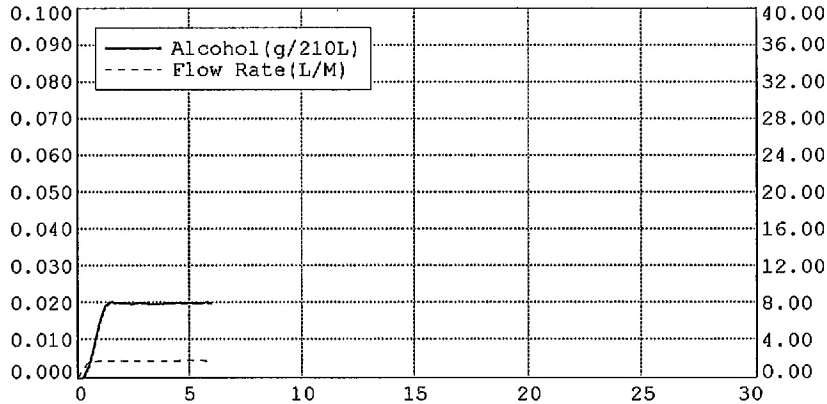
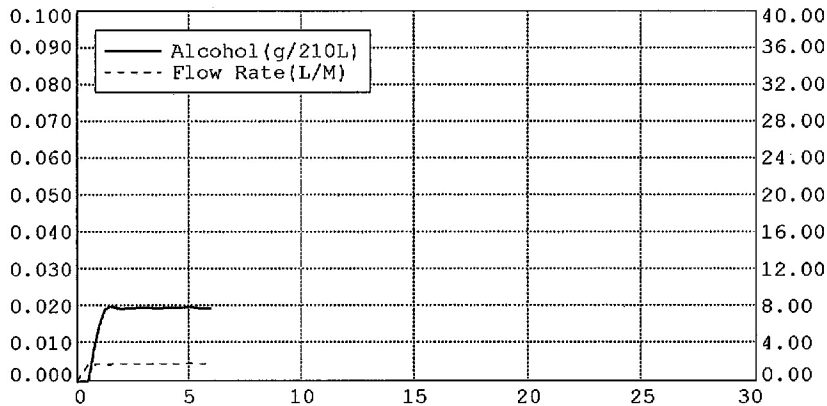
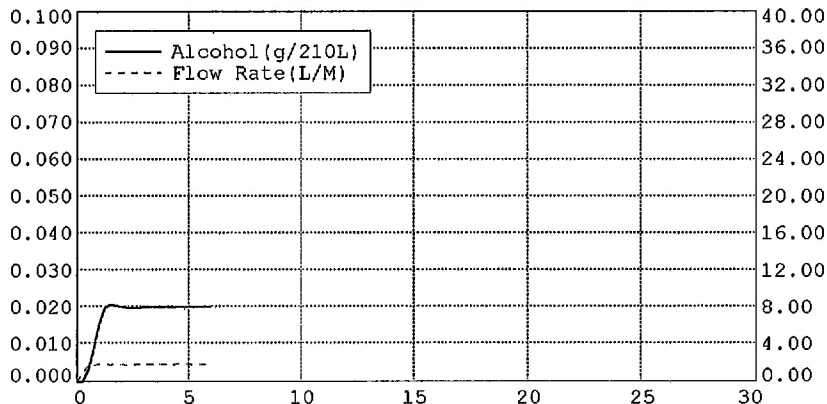
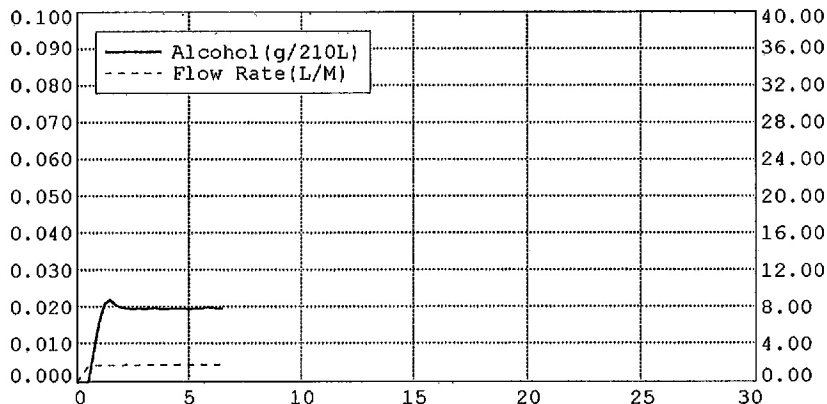
Date: 04/27/2012
 Time: 13:57:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.55: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21
EXTERNAL STANDARD	0.020	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.021	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.020	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.021	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.021	14:25
BLANK TEST	0.000	14:26

Average = 0.0211
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100368

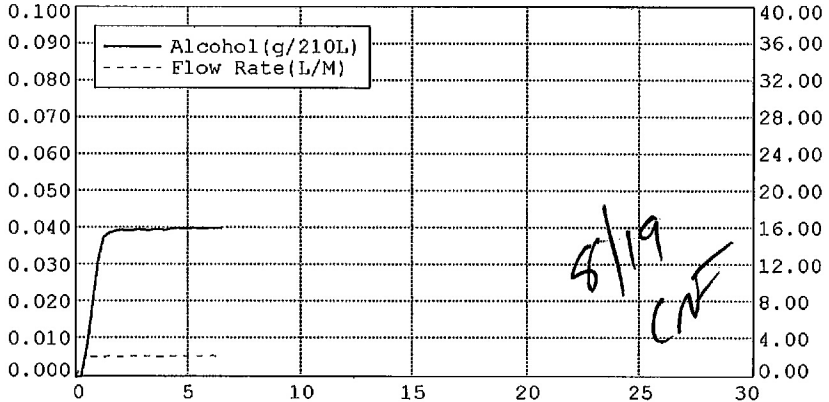
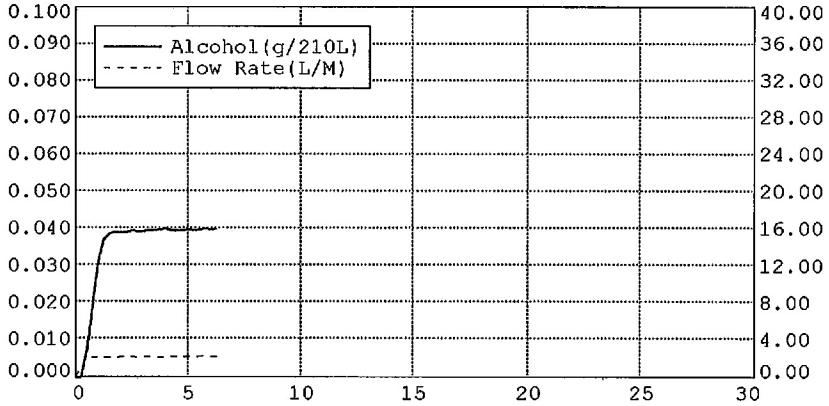
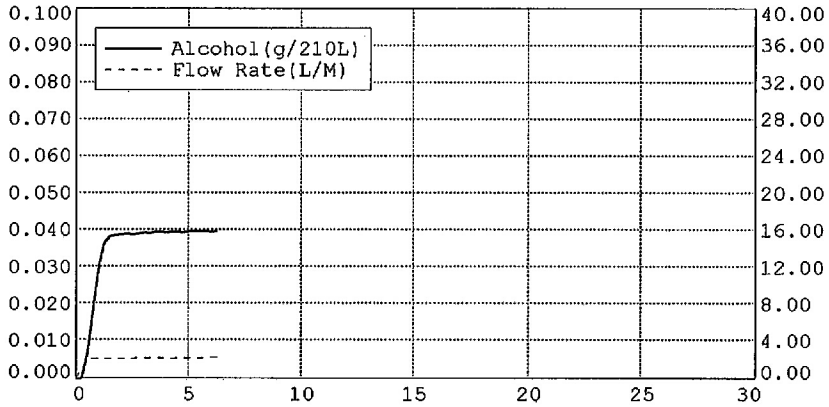
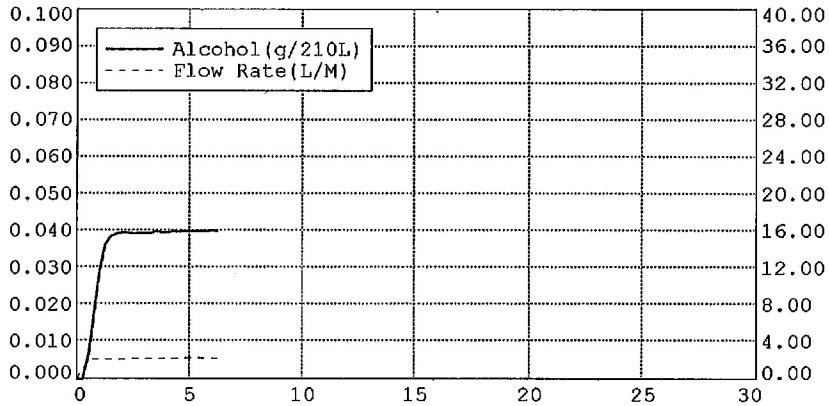
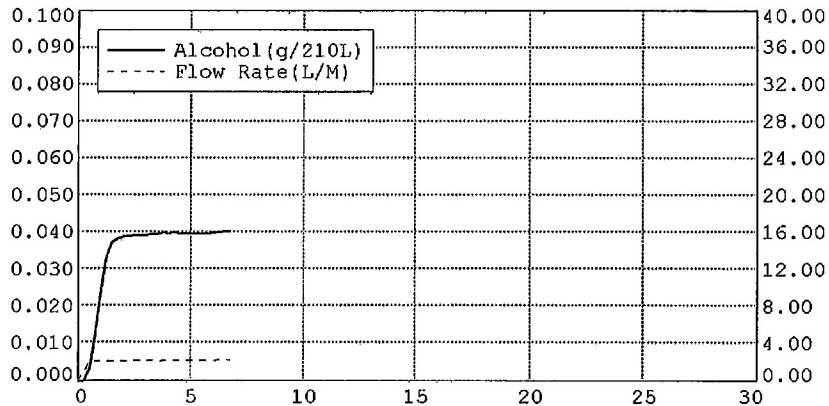
Date: 04/27/2012
 Time: 14:30:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.56: 0.039
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.041	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.041	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.040	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.041	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.041	14:35
BLANK TEST	0.000	14:36

Average = 0.0410
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

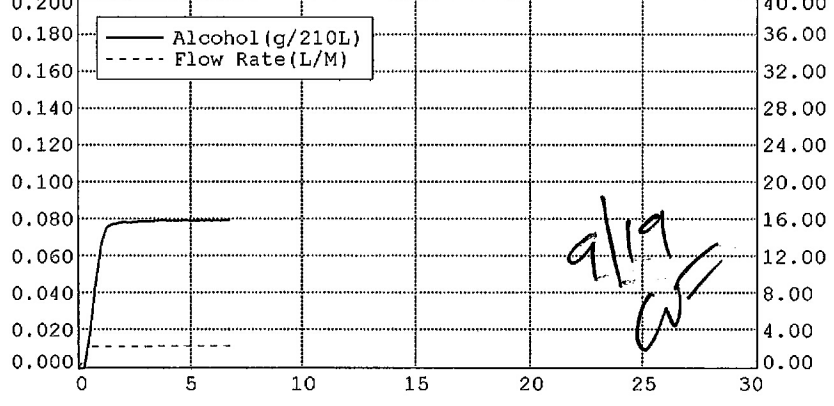
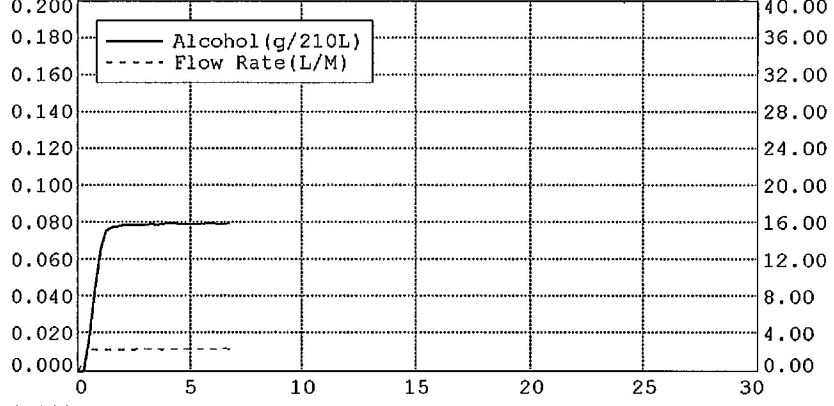
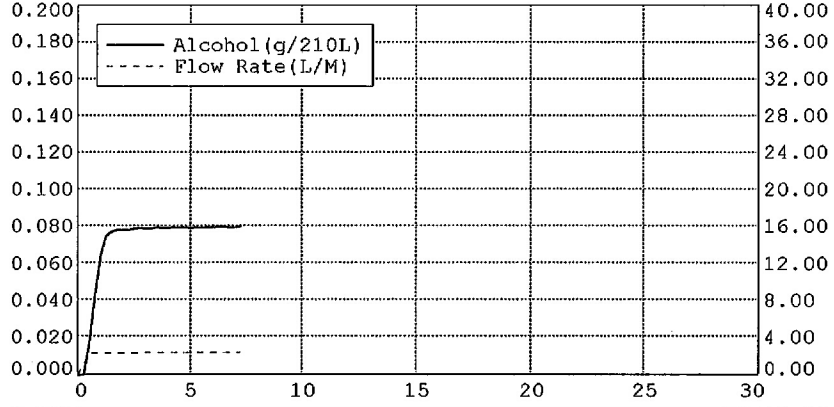
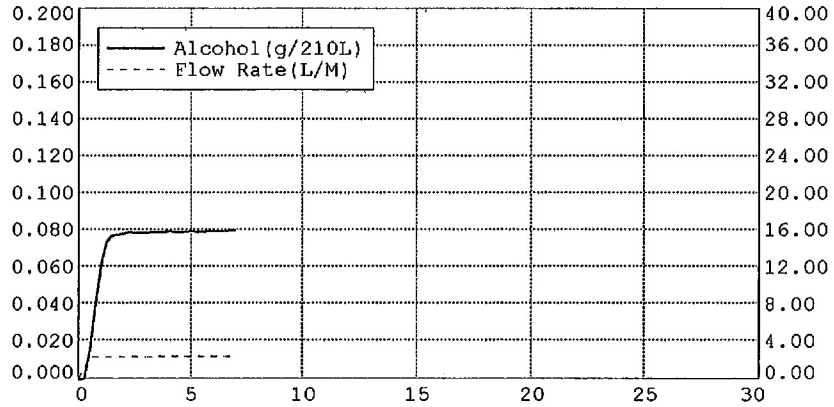
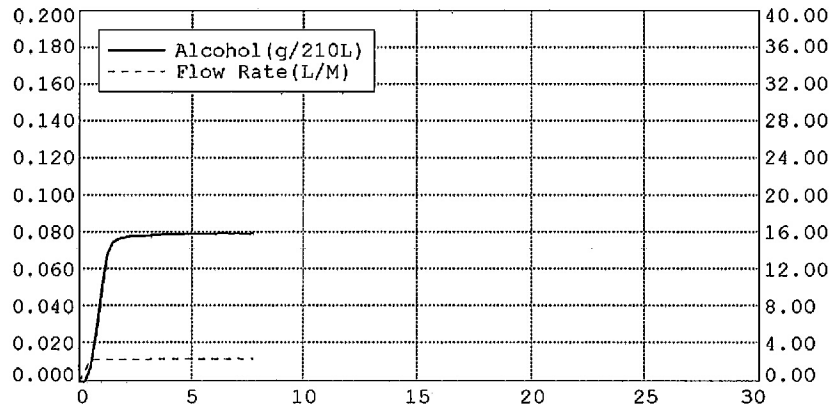
Alaska Department of Public Safety
 DATAMASTER dmt: 100368

Date: 04/27/2012
 Time: 14:38:34

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.55: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	14:40
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.080	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.080	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.080	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.080	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.080	14:45
BLANK TEST	0.000	14:46

Average = 0.0806
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

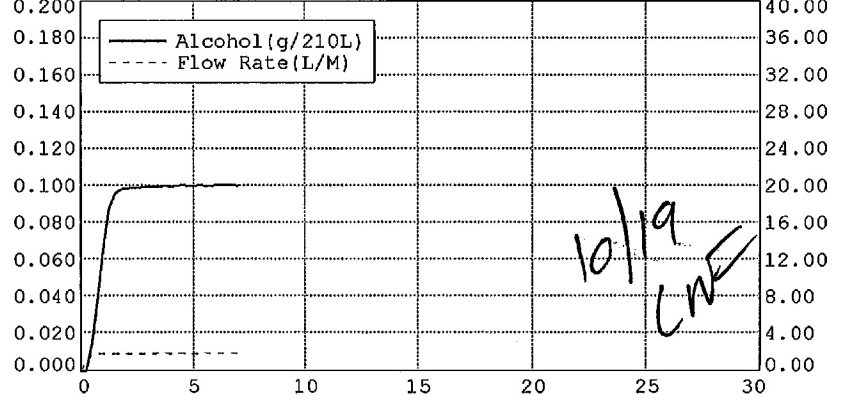
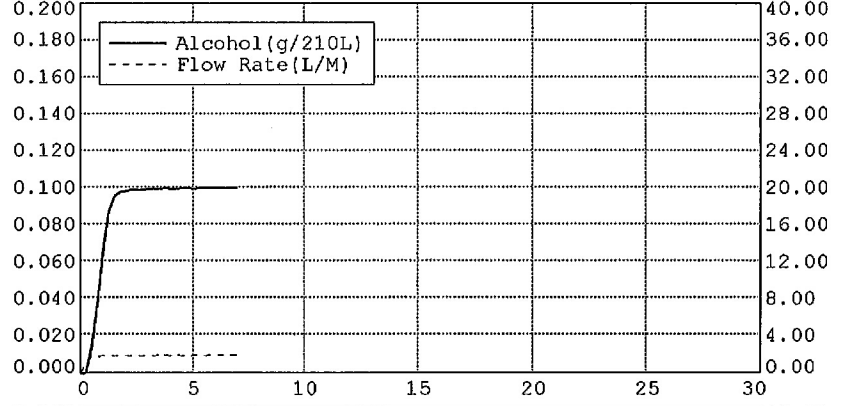
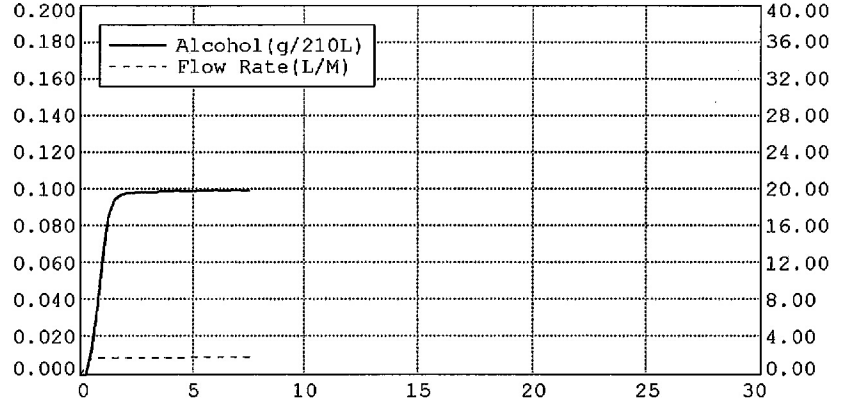
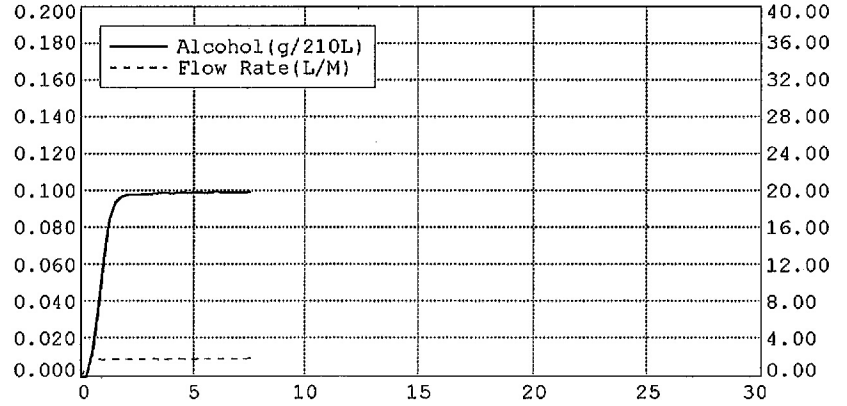
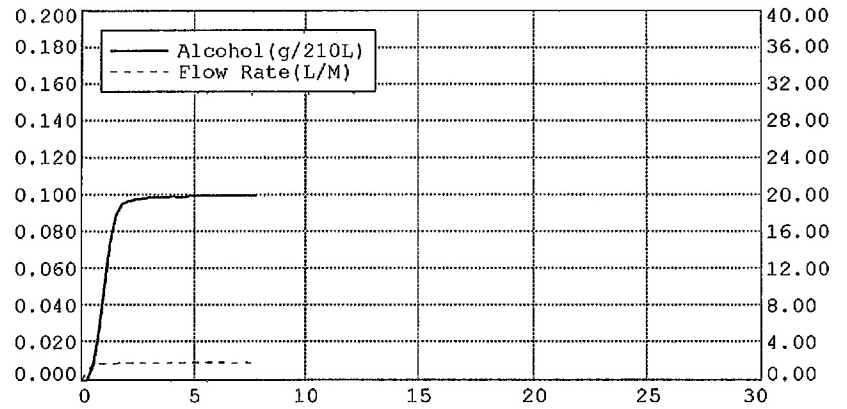
Alaska Department of Public Safety
 DATAMASTER dmt: 100368

Date: 04/27/2012
 Time: 14:49:26

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 29.56; 0.098
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.100	14:51
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.100	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.100	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.100	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.100	14:55
BLANK TEST	0.000	14:56

Average = 0.1005
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100368

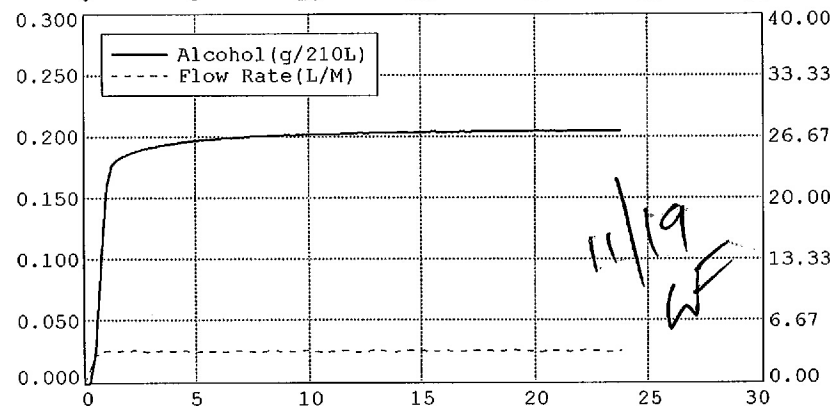
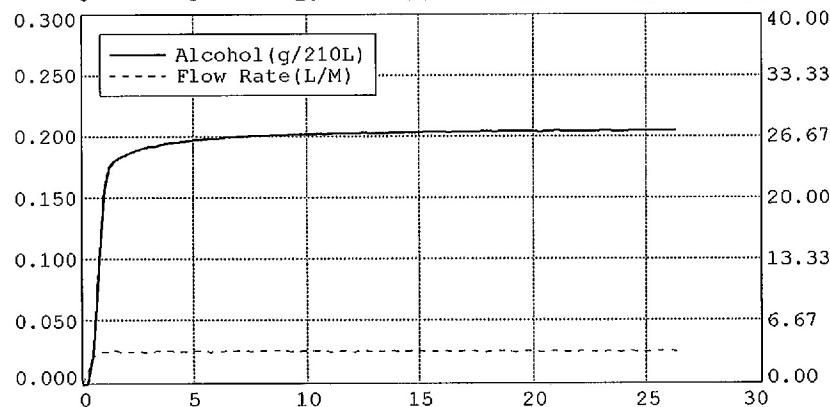
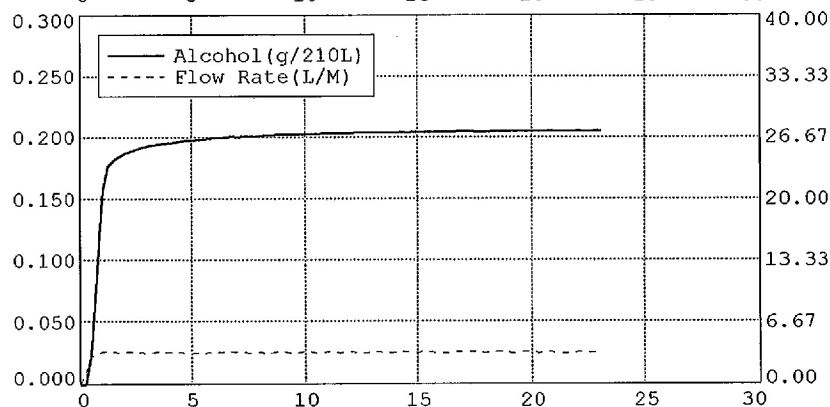
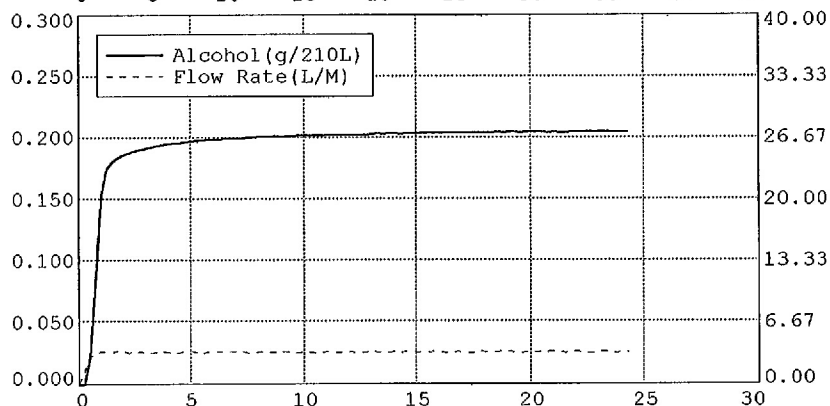
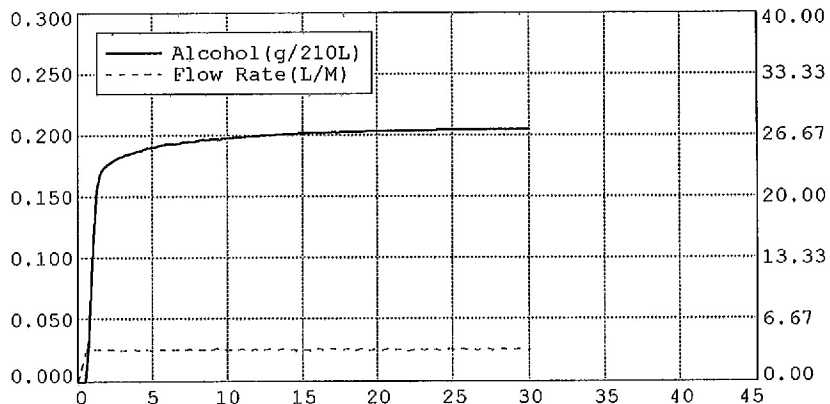
Date: 04/27/2012
 Time: 14:59:36

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:00
INTERNAL STANDARD	VERIFIED	15:00
EXTERNAL STANDARD	0.206	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.206	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.206	15:04
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.206	15:05
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.206	15:07
BLANK TEST	0.000	15:08

Average = 0.2062
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

 Alaska Department of Public Safety
 DATAMASTER dmt: 100368

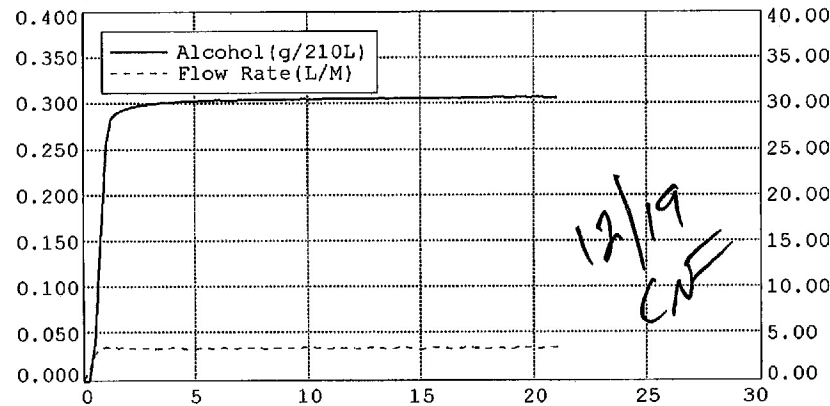
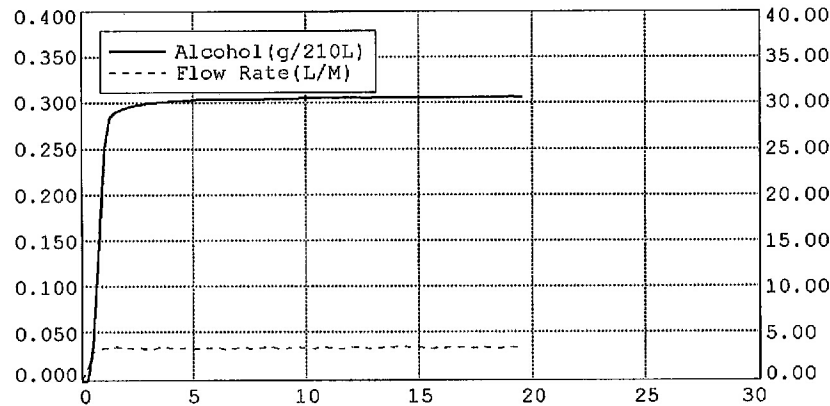
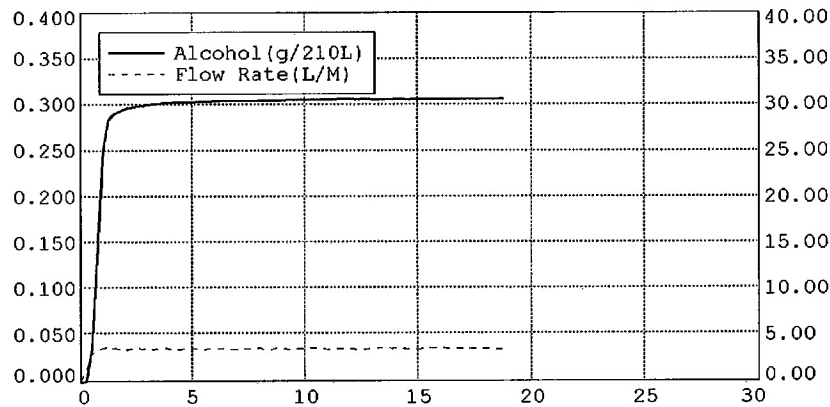
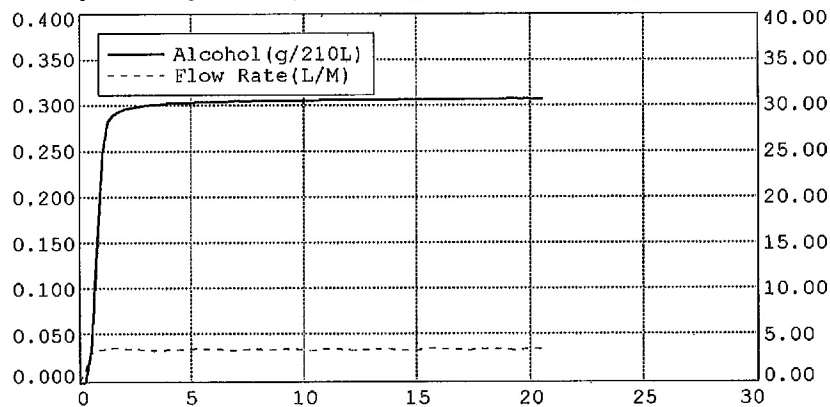
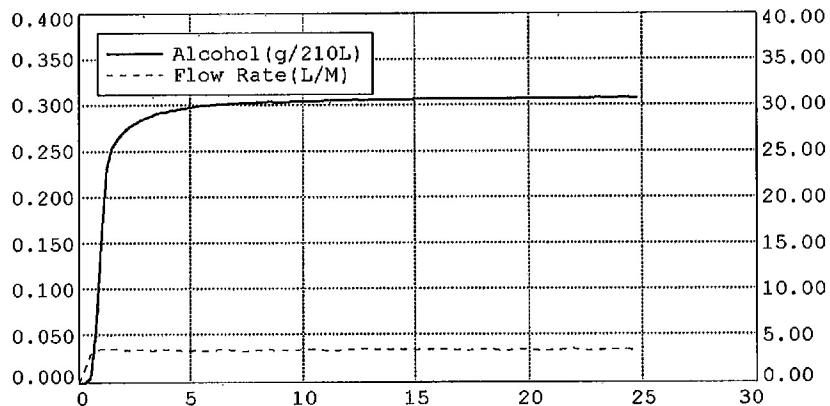
Date: 04/27/2012
 Time: 15:09:40

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:10
INTERNAL STANDARD	VERIFIED	15:10
EXTERNAL STANDARD	0.308	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.307	15:12
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.306	15:14
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.307	15:15
BLANK TEST	0.000	15:16
EXTERNAL STANDARD	0.306	15:17
BLANK TEST	0.000	15:17

Average = 0.3073
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100368

Date: 04/30/2012
 Time: 08:23:35

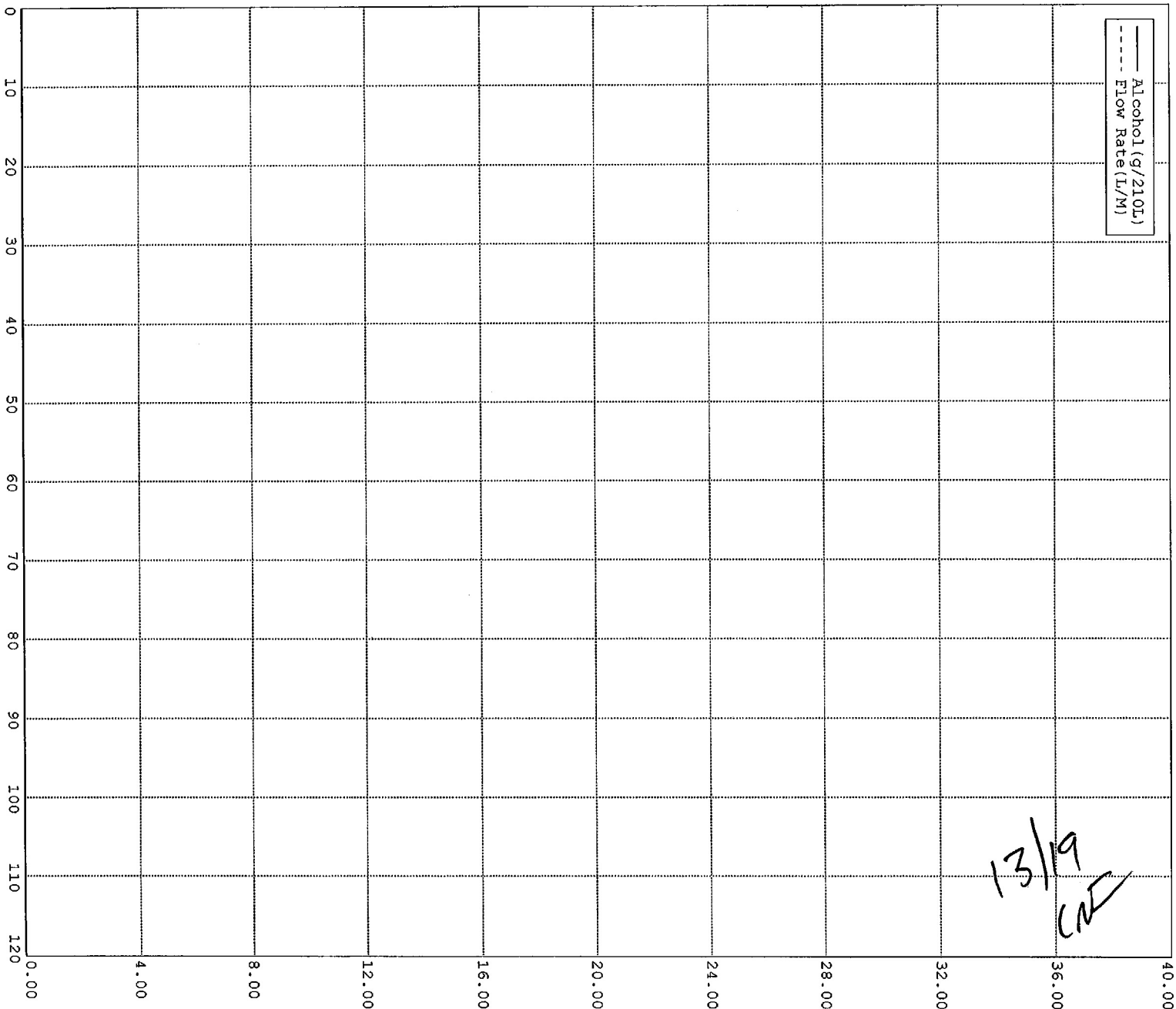
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.51: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:26
BLANK TEST	0.000	08:26
INTERNAL STANDARD	VERIFIED	08:26
EXTERNAL STANDARD	0.080	08:27
BLANK TEST	0.000	08:28
SUBJECT SAMPLE	INCOMPLETE	08:30



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100368

Date: 04/30/2012
Time: 09:29:33

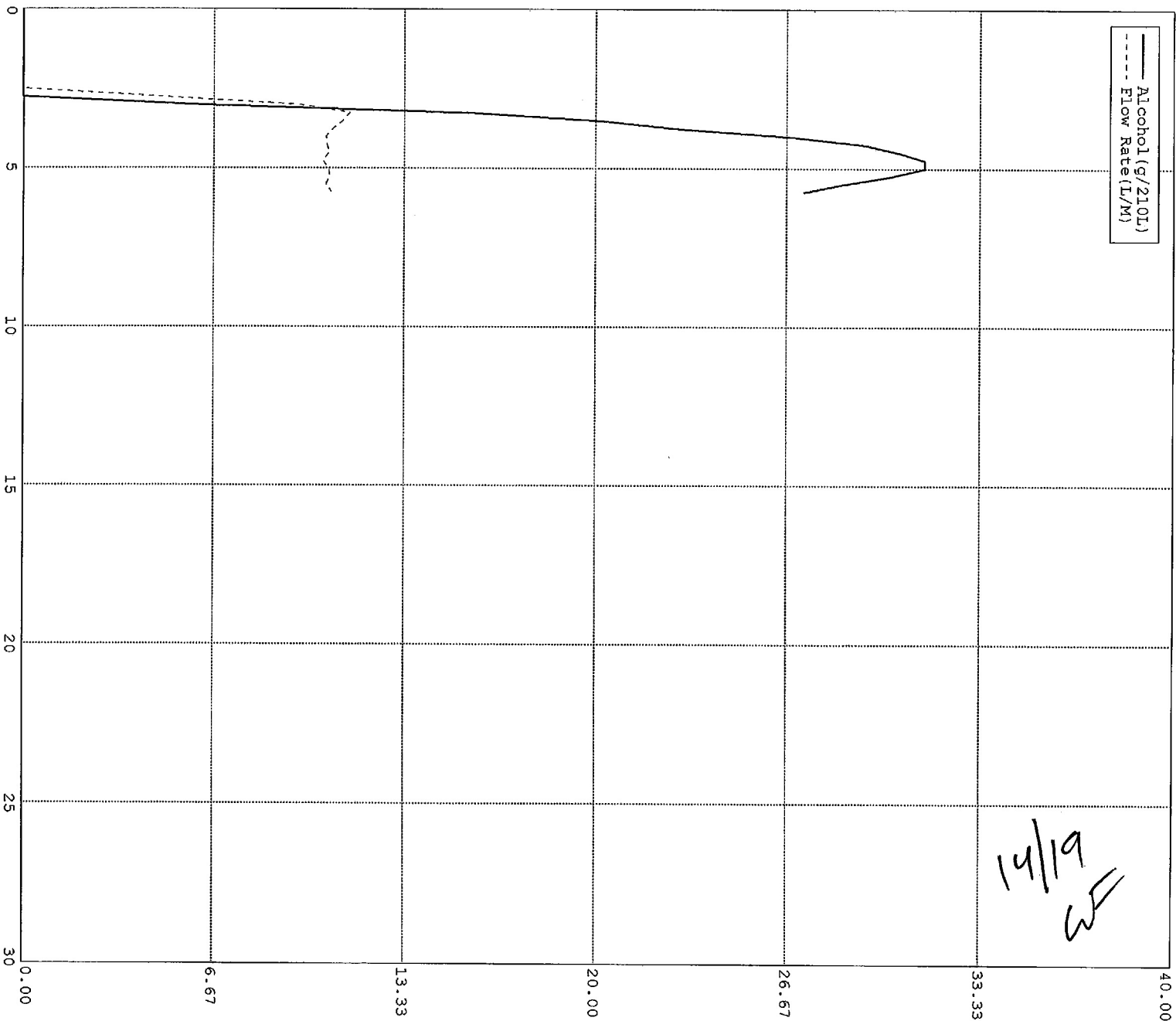
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.51: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:35
BLANK TEST	0.000	09:35
INTERNAL STANDARD	VERIFIED	09:35
EXTERNAL STANDARD	0.081	09:35
BLANK TEST	0.000	09:36
SUBJECT SAMPLE	INVALID	09:36



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100368

Date: 04/30/2012
Time: 10:11:54

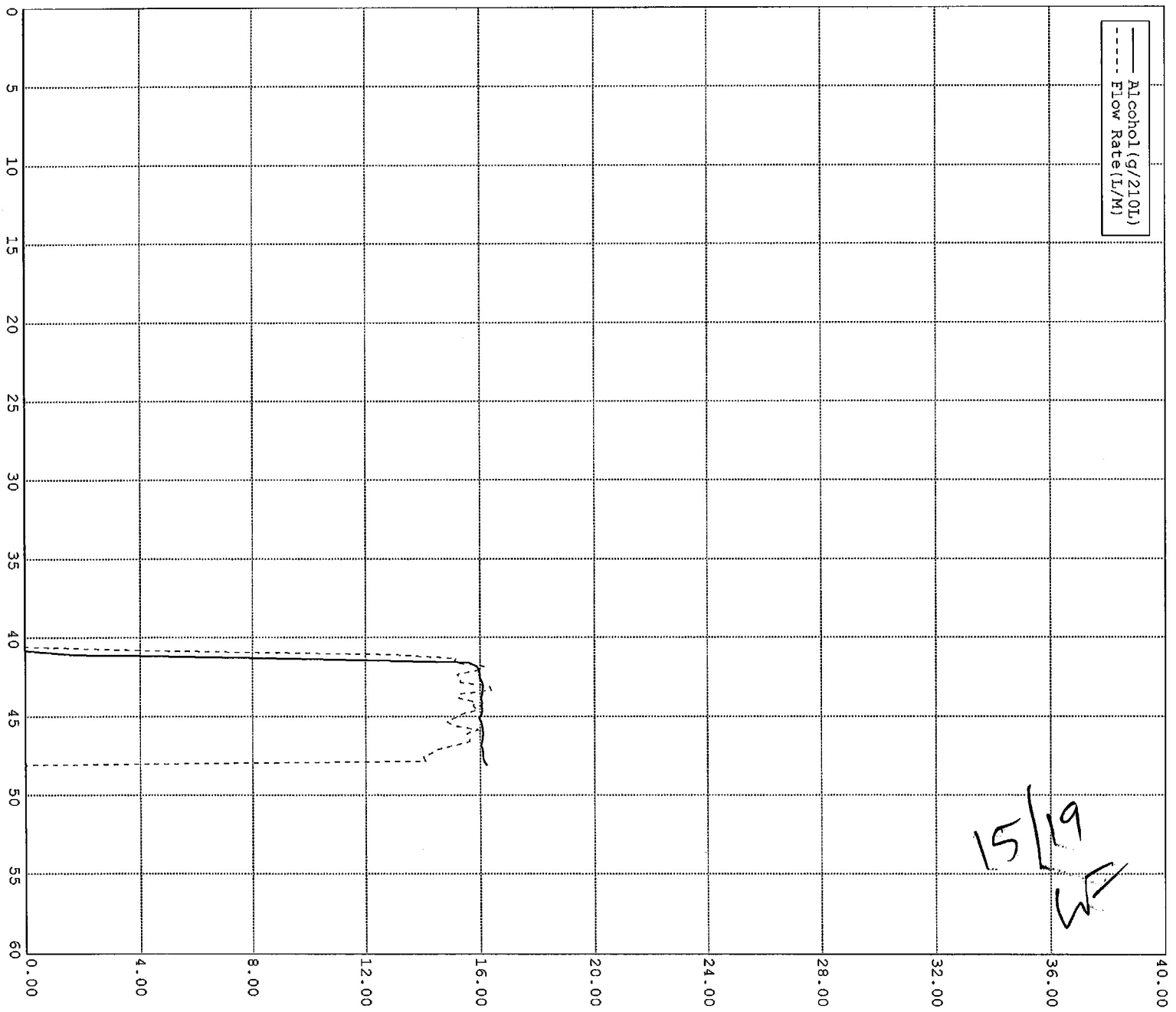
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.51: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:16
BLANK TEST	0.000	10:16
INTERNAL STANDARD	VERIFIED	10:16
Xg = 0.076 (1.15%)		
EXTERNAL STANDARD	0.080	10:17
X[1] = 0.0806 (-0.0008) (0.0014)		
BLANK TEST	0.000	10:18
SUBJECT SAMPLE	INTERFERENCE	10:18
X[1] = 0.0823 (-0.0119) (-0.0009)		



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100368

Date: 04/30/2012
Time: 11:02:20

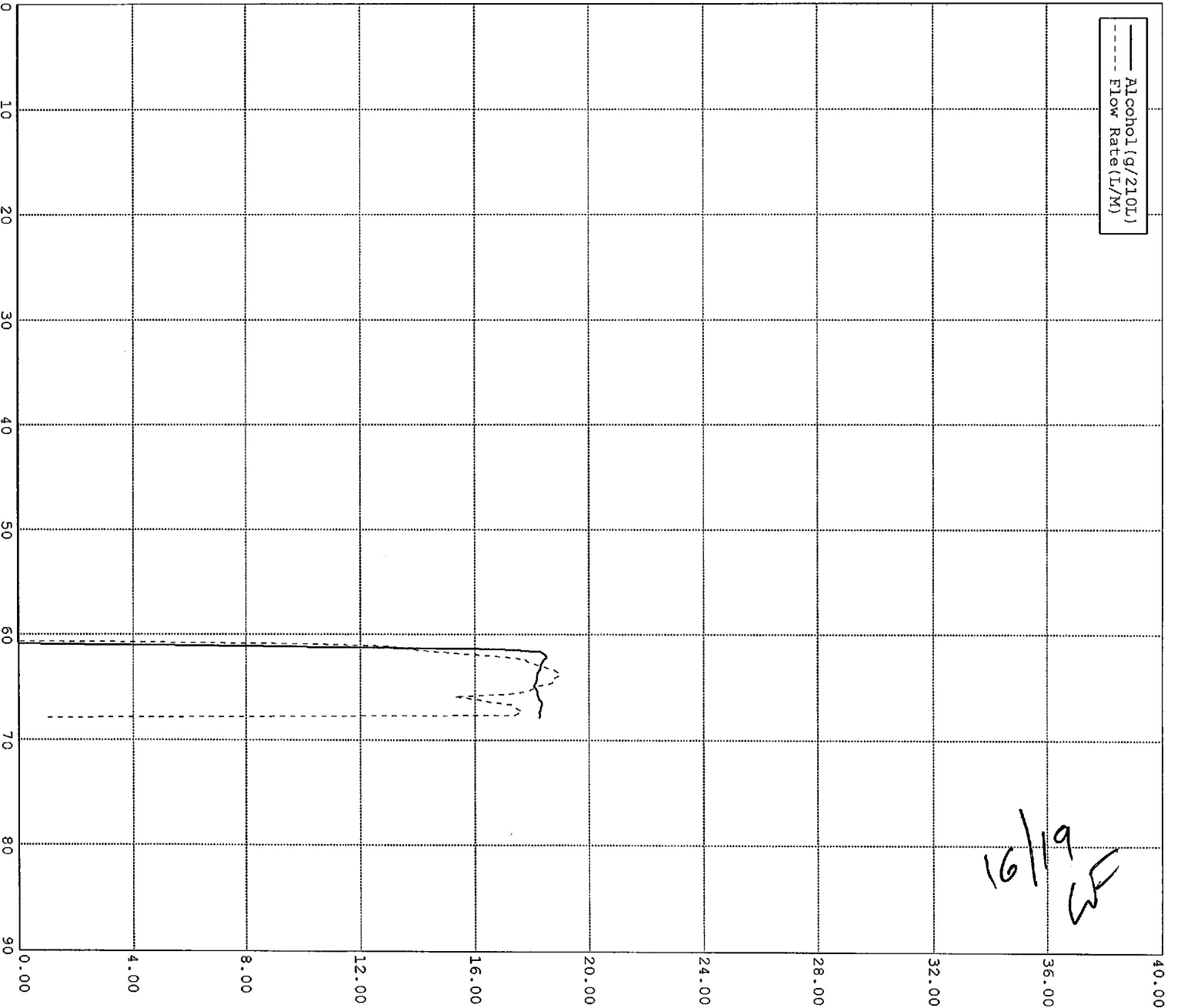
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE ETOH AND IPA
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.51: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:04
BLANK TEST	0.000	11:04
INTERNAL STANDARD	VERIFIED	11:05
Xq = 0.076 (0.69%)		
EXTERNAL STANDARD	0.080	11:05
X[1] = 0.0804 (-0.0012) (0.0014)		
BLANK TEST	0.000	11:06
SUBJECT SAMPLE	INTERFERENCE	11:07
X[1] = 0.0924 (-0.0255) (0.0008)		



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100368

Date: 04/30/2012
 Time: 11:17:13

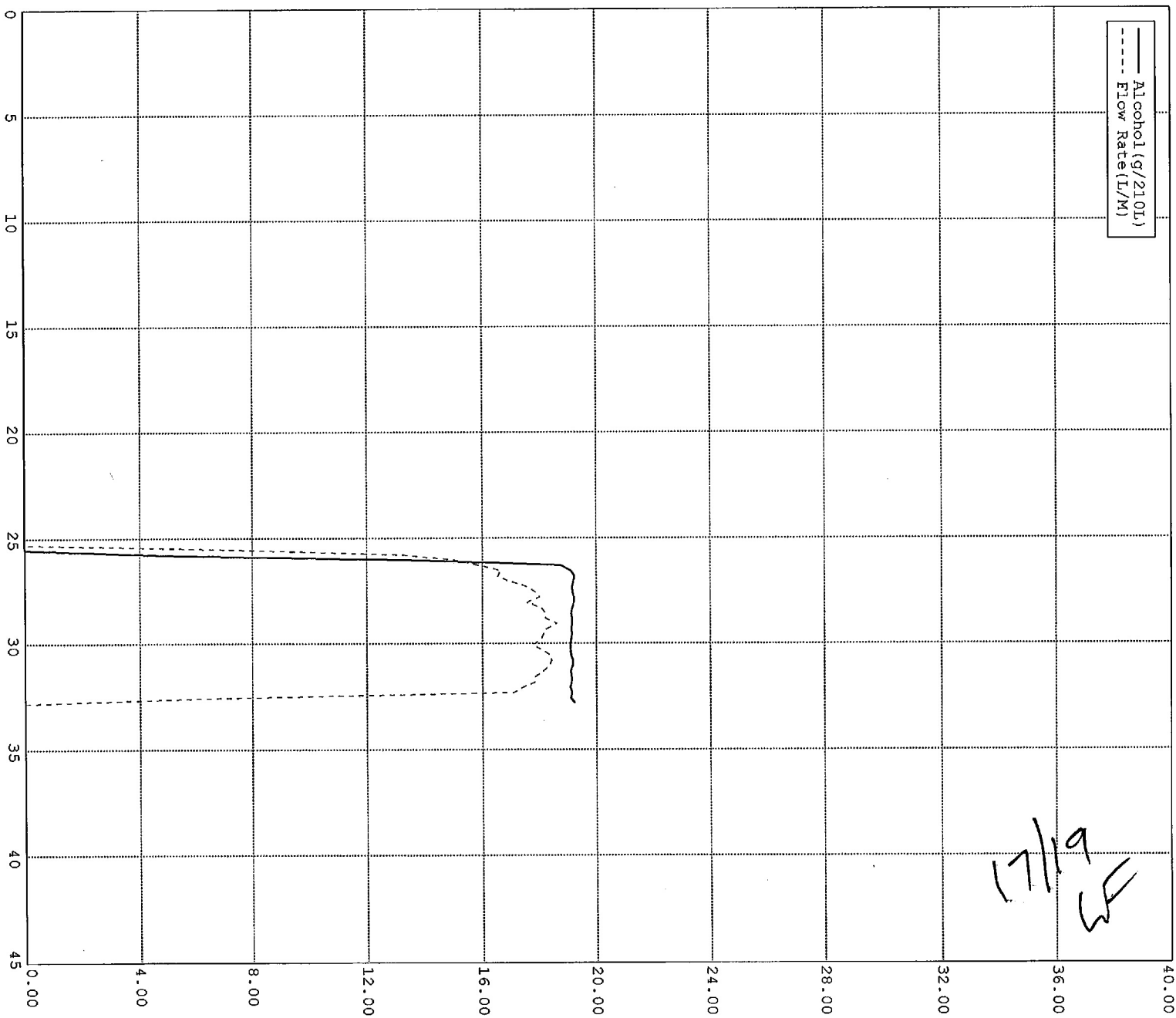
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.51: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:19
BLANK TEST	0.000	11:19
INTERNAL STANDARD	VERIFIED	11:19
XG = 0.075 (0.58%)		
EXTERNAL STANDARD	0.079	11:19
X[1] = 0.0799 (-0.0023)	(0.0014)	
BLANK TEST	0.000	11:20
SUBJECT SAMPLE (Vol=2.03L)	0.096	11:21
X[1] = 0.0967 (-0.0001)	(0.0002)	
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.080	11:22
X[1] = 0.0805 (-0.0009)	(0.0016)	
BLANK TEST	0.000	11:23



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100368

Date: 04/30/2012
 Time: 11:41:01

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

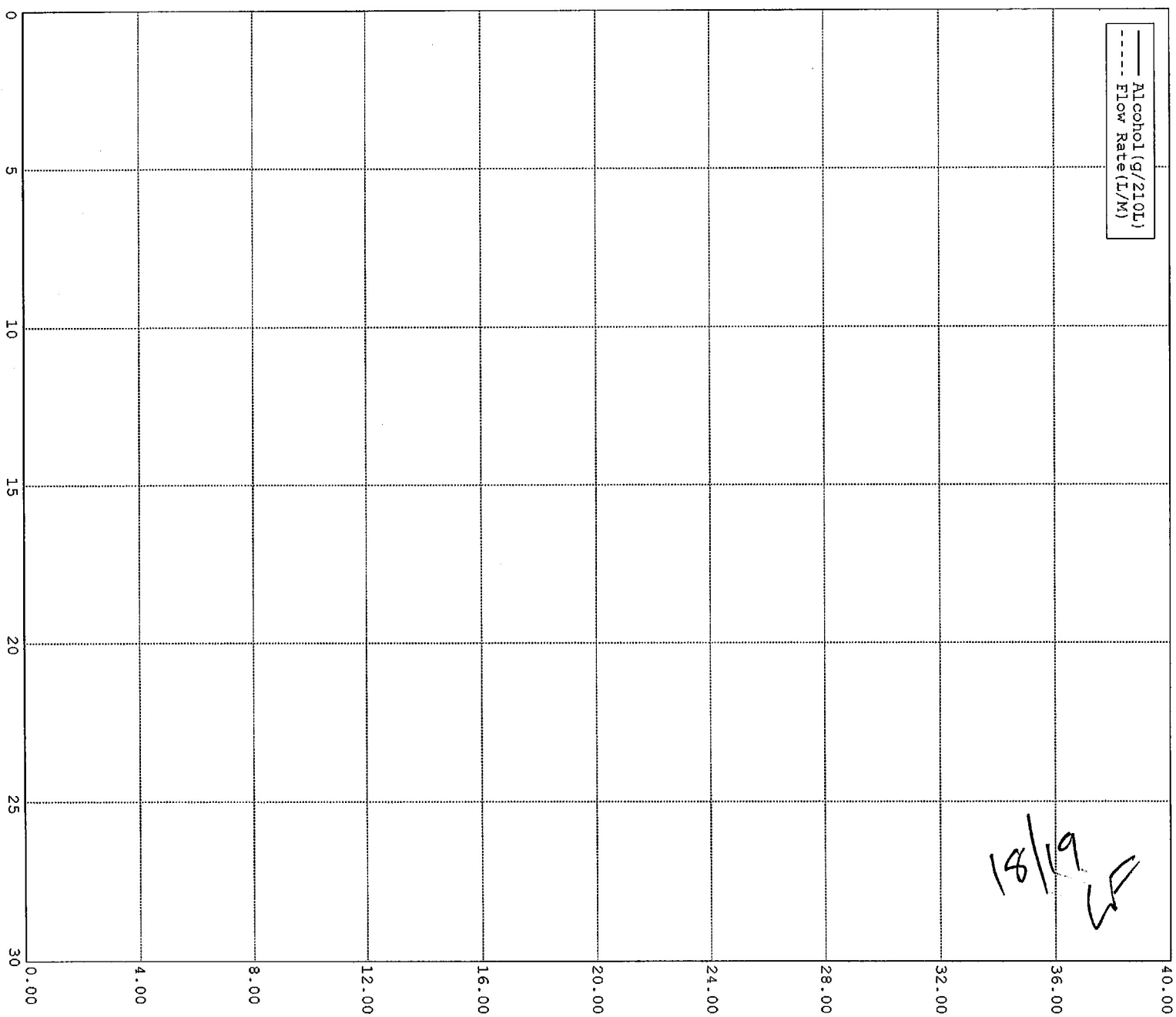
OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AF 29.51: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:43
BLANK TEST	0.000	11:43
INTERNAL STANDARD	VERIFIED	11:43
EXTERNAL STANDARD	0.080	11:44
BLANK TEST	0.000	11:45

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100368

Date: 04/30/2012
 Time: 13:42:15

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 29.49: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:47
BLANK TEST	0.000	13:47
INTERNAL STANDARD	VERIFIED	13:48
EXTERNAL STANDARD	0.080	13:48
BLANK TEST	0.000	13:49
SUBJECT SAMPLE	0.000	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.080	13:50
BLANK TEST	0.000	13:51

