

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100375 Analyst CTF Start Date 8/1/12

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 02012050A1 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 SD1175 Date Calibrated 1/10/12
 - vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/13
 - 1. Simulator S/N SD1176 Date Calibrated 8/17/11

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 11000 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 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 AWA

End Date 8/2/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100375

Date: 08/01/2012
Time: 10:55:49

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 4.594 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

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WF

Technician Screen

DATAMASTER dmt: 100375

Date: 08/01/2012
Time: 11:05 AM

Temperatures (°C)
Sample Cell: 48.7°C
Breath Tube: 48.0°C

Current Barometer 29.6 in
Volume (Ltr) 1.52

Settings
Lamp: 1.54 V
Bias: 79 V
Cooler: 1.62 V
Chopper: 537 Hz

Voltages (V)
Flow: 1.05 V
Detector: -0.013 V

3/19
WF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100375

Date: 04/12/2011
Time: 13:58:30

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2012

Ca = 0.1000
CAL = 0.979715 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0041 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0913 0.0500 <= Xq < 0.2000
a21 = 1.104953 1.050 <= a21 < 1.300
a31 = 0.439751 0.300 <= a31 < 0.800

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LF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100375

Date: 08/01/2012
 Time: 11:15:50

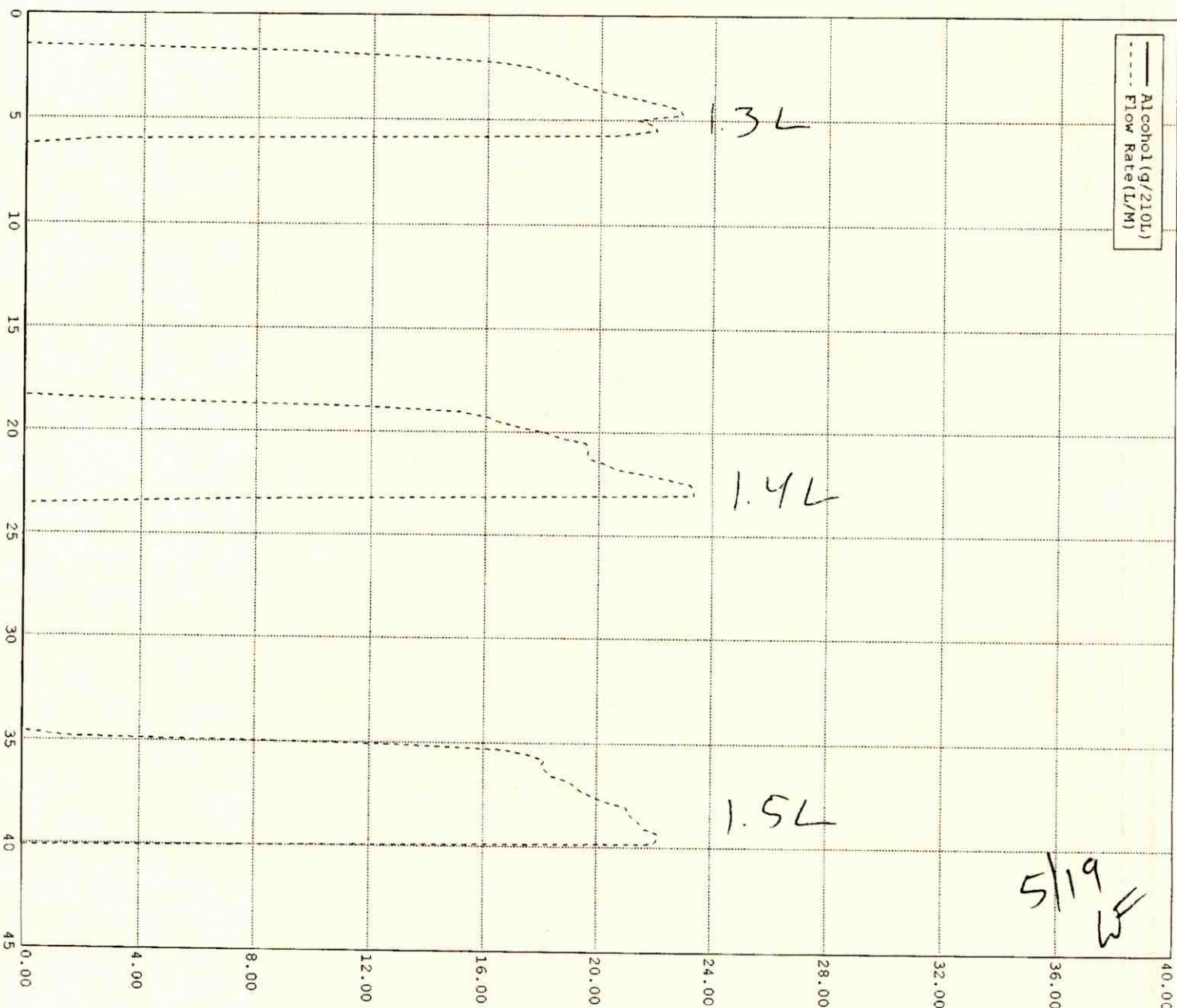
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.65: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:24
BLANK TEST	0.000	11:24
INTERNAL STANDARD	VERIFIED	11:24
EXTERNAL STANDARD	0.079	11:25
BLANK TEST	0.000	11:26
SUBJECT SAMPLE	0.000	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.079	11:27
BLANK TEST	0.000	11:28



LINEARITY CHECK

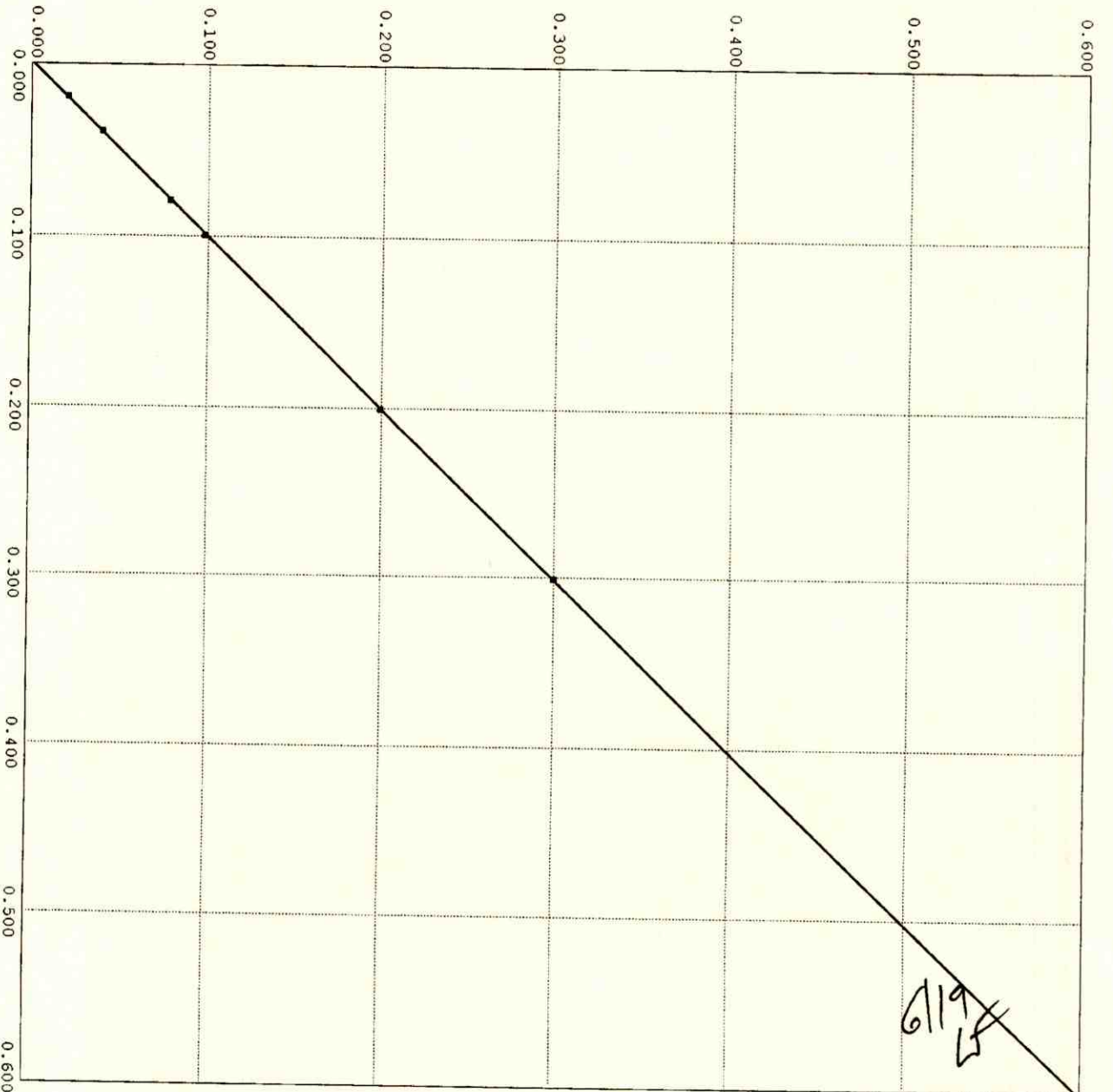
Alaska Department of Public Safety
DATAMASTER dmt: 100375

Date: 08/01/2012
Time: 12:49:35

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0212	0.0002
0.039	0.0408	0.0001
0.079	0.0796	0.0002
0.099	0.0991	0.0002
0.200	0.2001	0.0001
0.300	0.3005	0.0004

SLOPE = 0.994527
R² = 0.999956



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100375

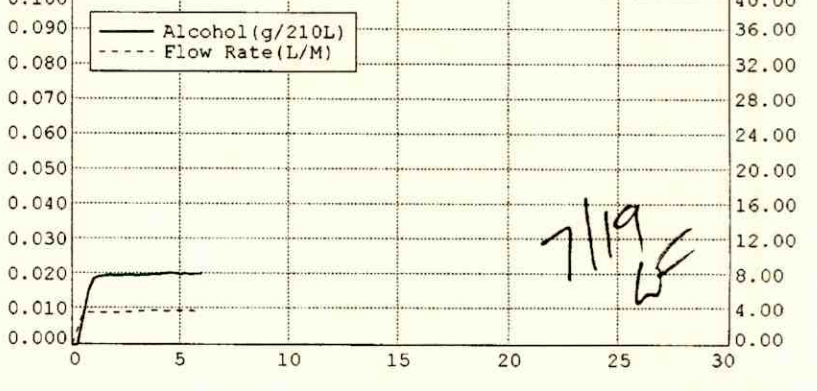
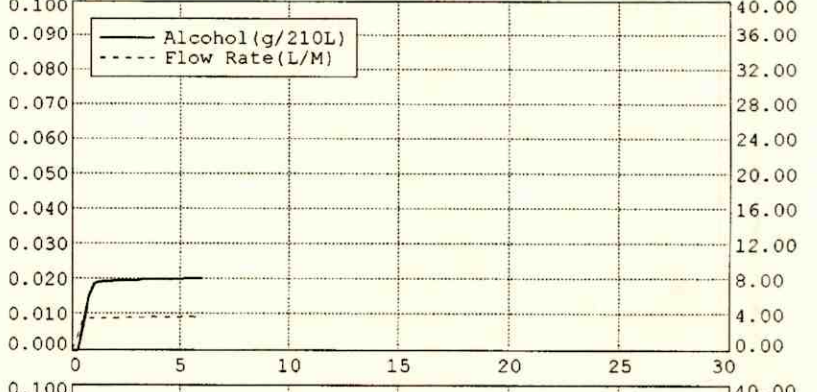
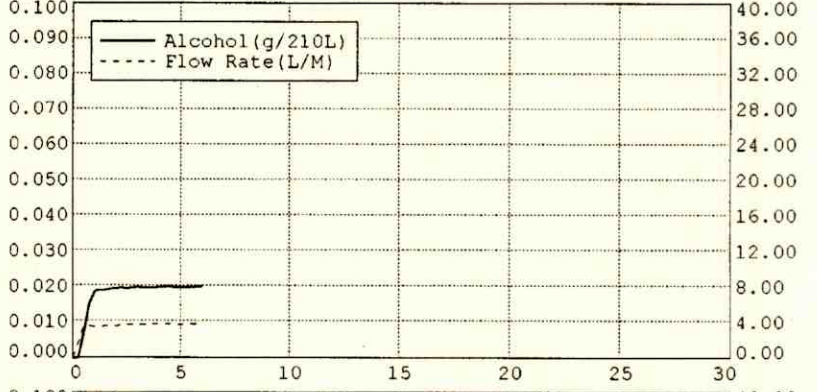
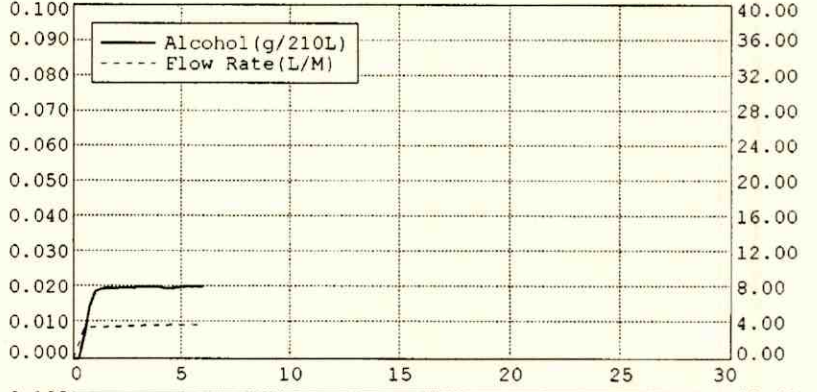
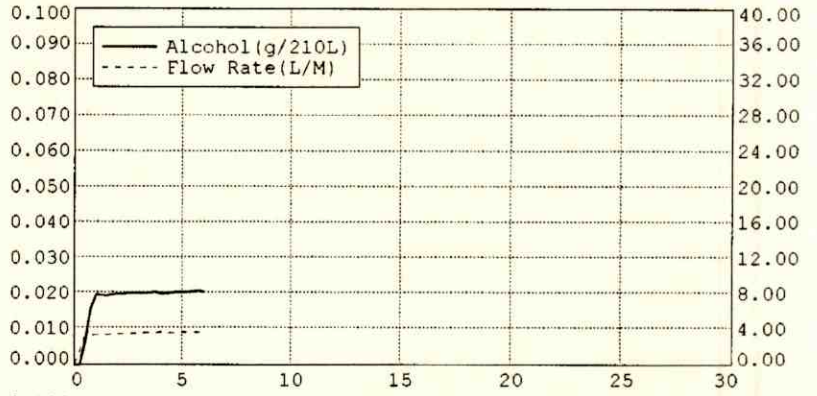
Date: 08/01/2012
 Time: 12:49:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.63: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:51
INTERNAL STANDARD	VERIFIED	12:51
EXTERNAL STANDARD	0.021	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.021	12:52
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.021	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.021	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.021	12:55
BLANK TEST	0.000	12:56

Average = 0.0212
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100375

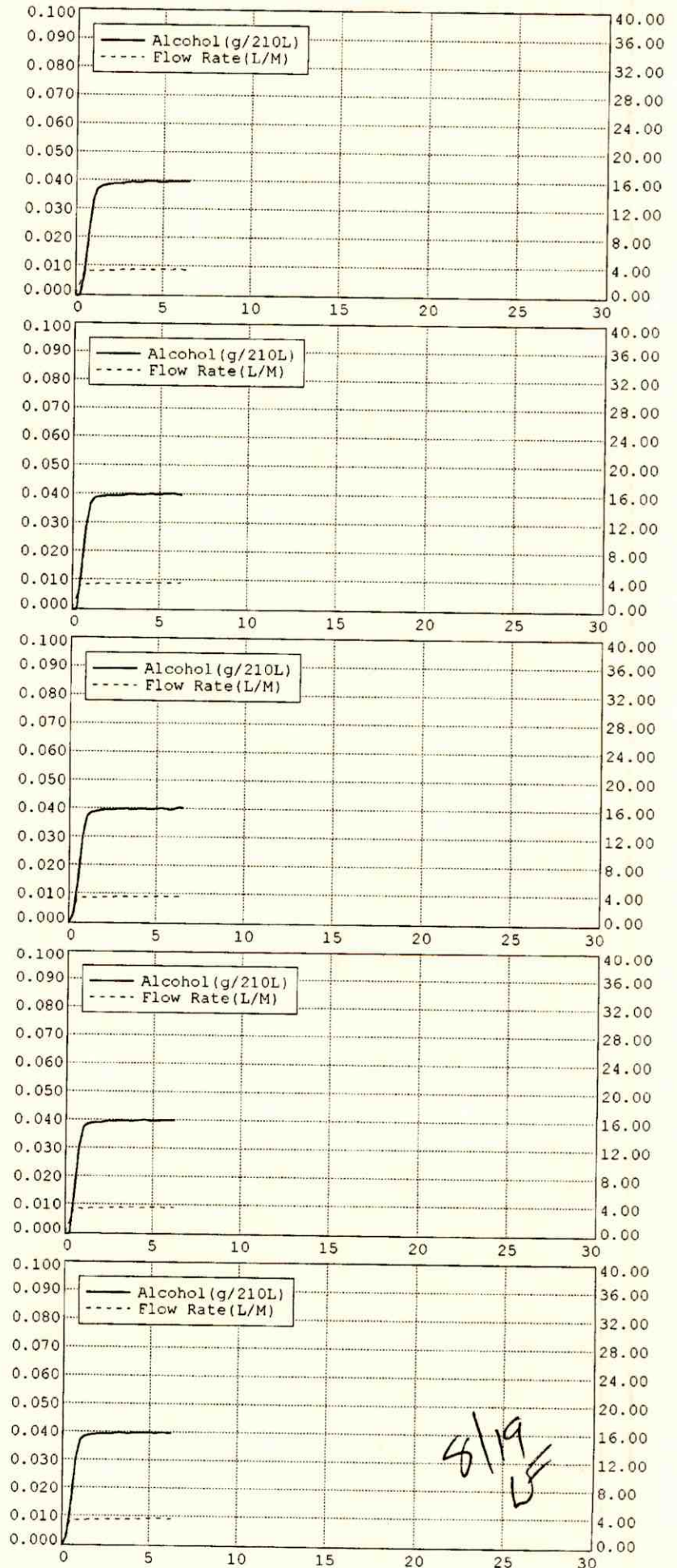
Date: 08/01/2012
 Time: 12:57:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.64: 0.039
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:58
INTERNAL STANDARD	VERIFIED	12:58
EXTERNAL STANDARD	0.040	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.040	13:00
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.041	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.040	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.040	13:03
BLANK TEST	0.000	13:04

Average = 0.0408
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100375

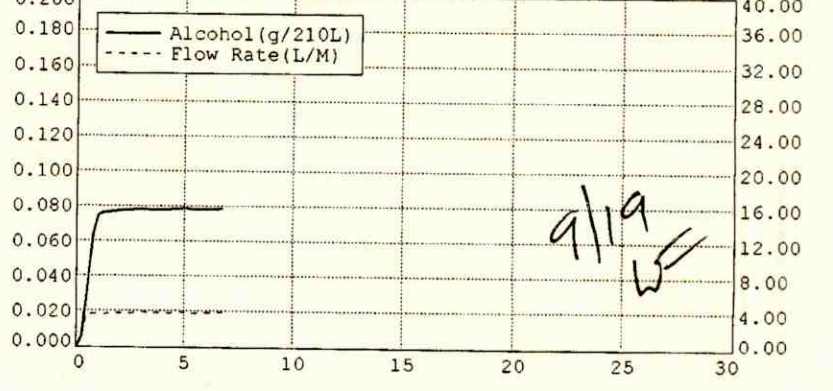
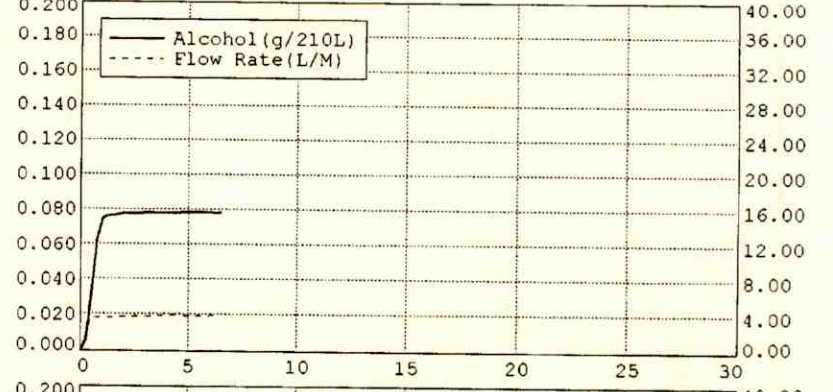
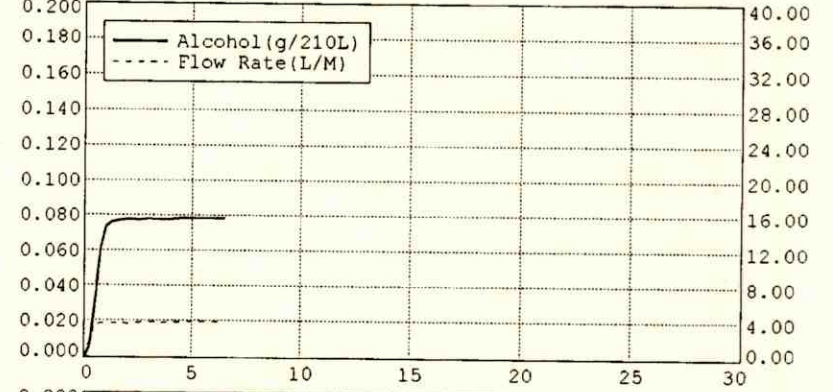
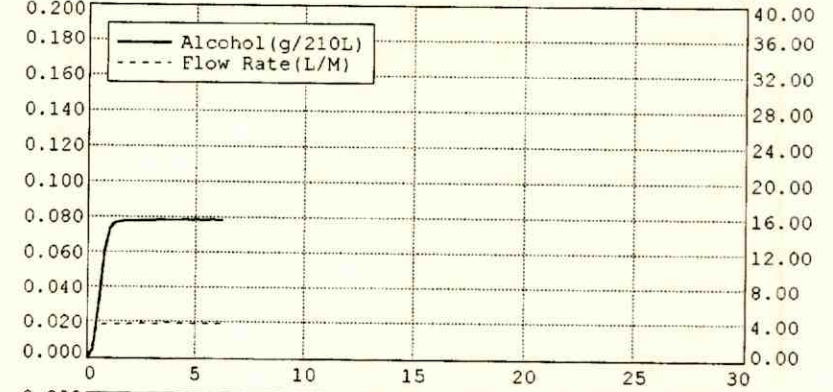
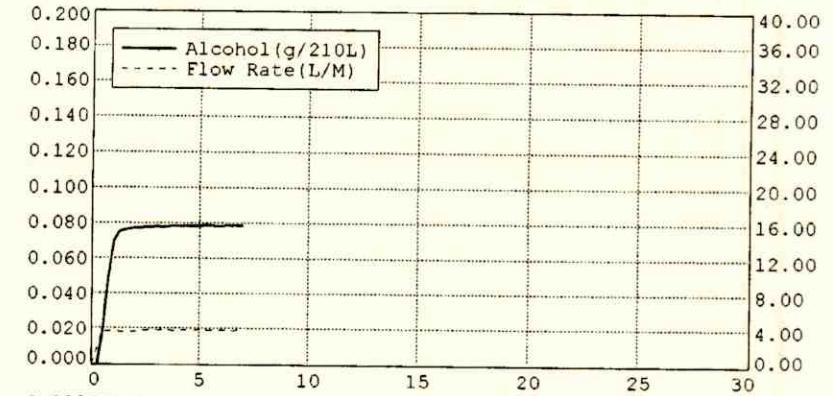
Date: 08/01/2012
 Time: 13:04:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.64: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	13:06
INTERNAL STANDARD	VERIFIED	13:06
EXTERNAL STANDARD	0.079	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.079	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.079	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.079	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.079	13:11
BLANK TEST	0.000	13:12

Average = 0.0796
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100375

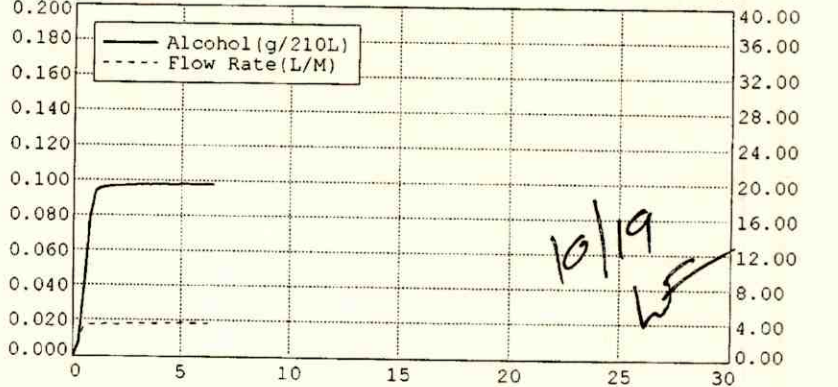
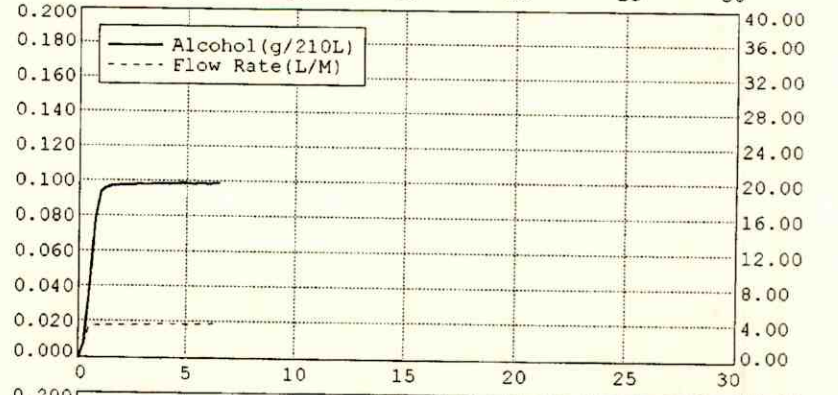
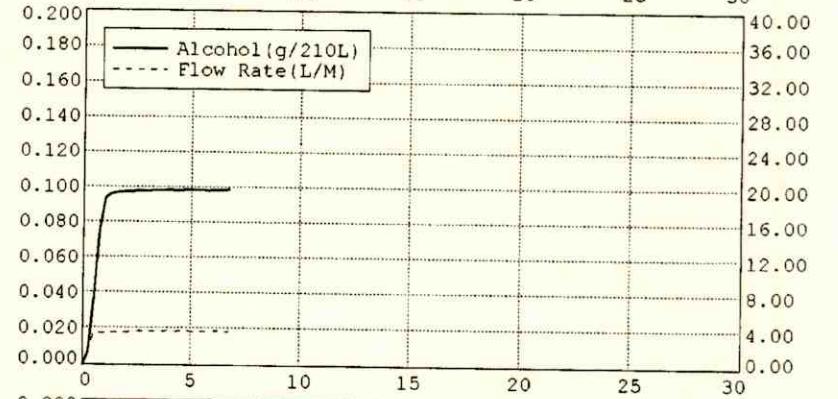
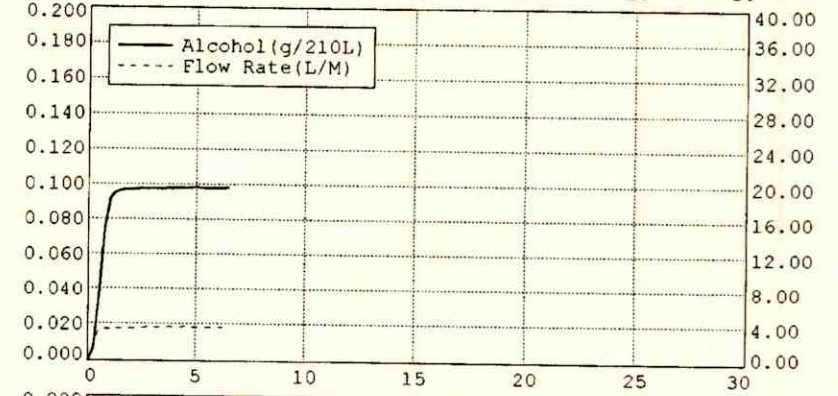
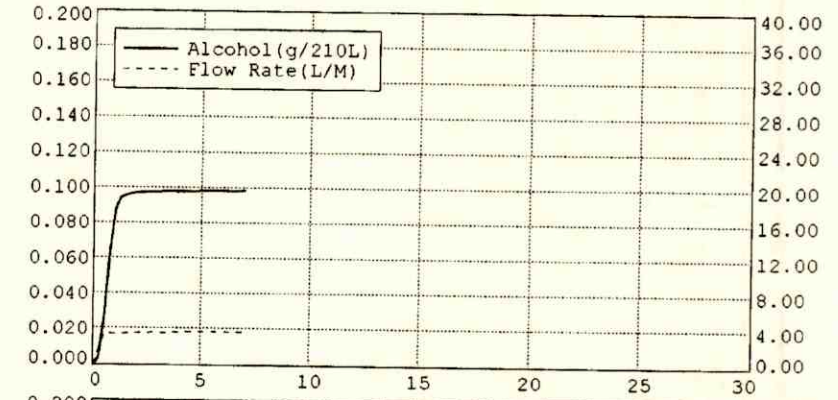
Date: 08/01/2012
 Time: 13:13:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.64: 0.099
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.099	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.099	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.099	13:18
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.099	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.098	13:20
BLANK TEST	0.000	13:21

Average = 0.0991
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

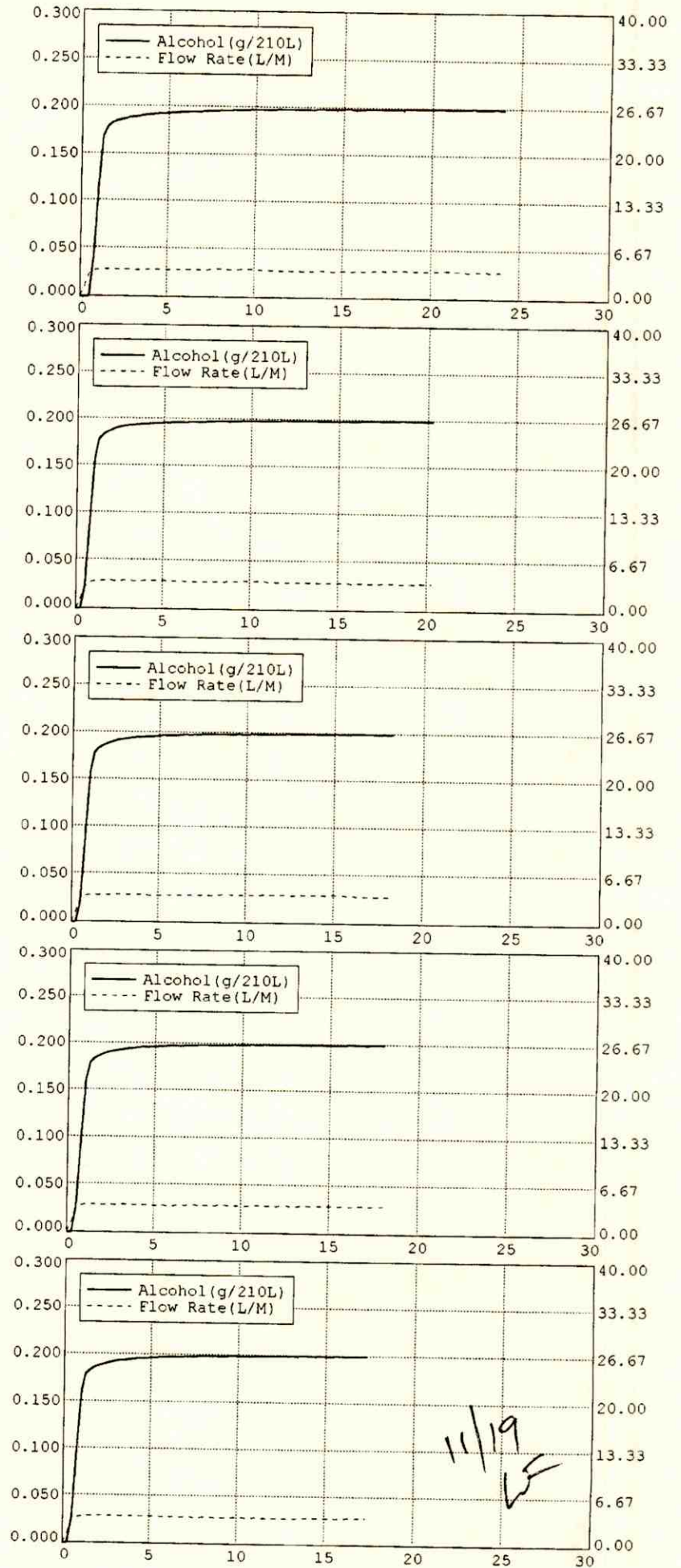
Alaska Department of Public Safety
 DATAMASTER dmt: 100375

Date: 08/01/2012
 Time: 13:22:31

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

BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:24
EXTERNAL STANDARD	0.200	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.199	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.200	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.200	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.200	13:30
BLANK TEST	0.000	13:31

Average = 0.2001
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100375

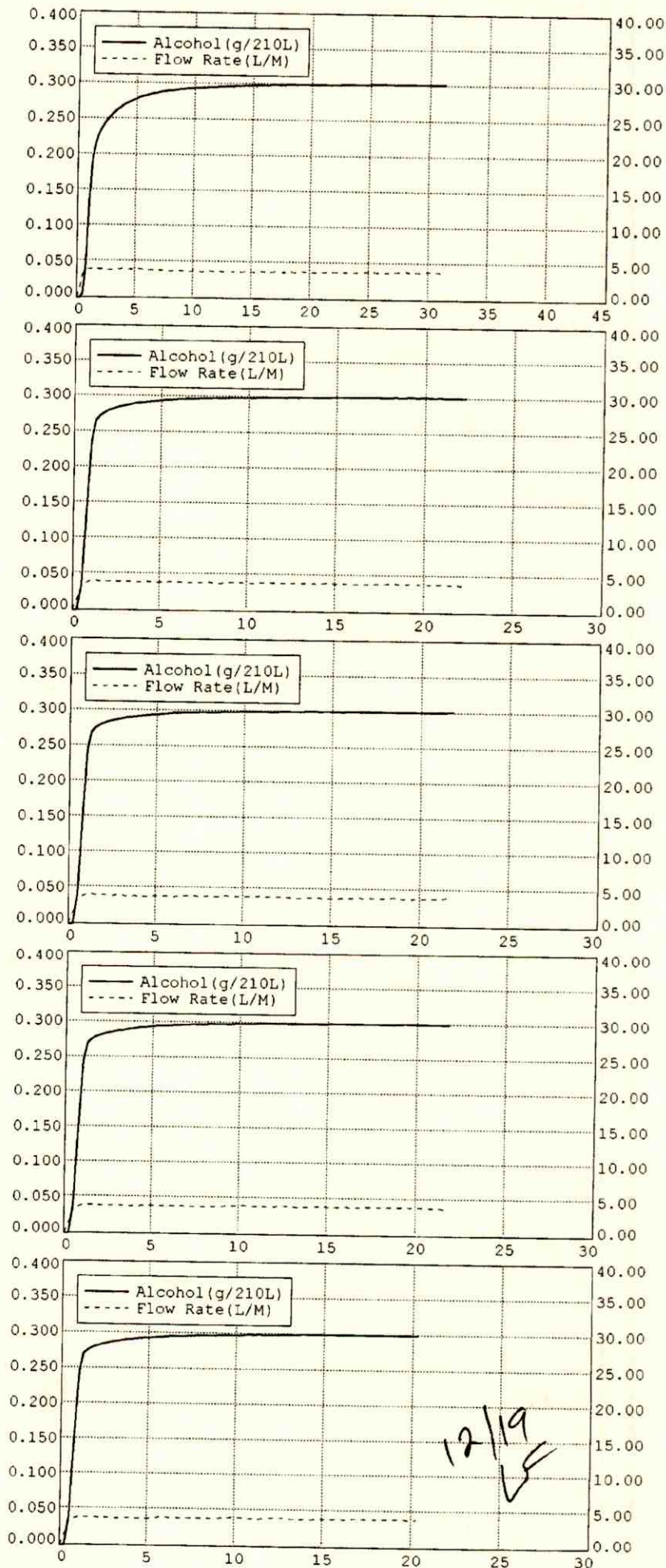
Date: 08/01/2012
 Time: 13:35:11

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:36
INTERNAL STANDARD	VERIFIED	13:36
EXTERNAL STANDARD	0.300	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.300	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.300	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.300	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.300	13:42
BLANK TEST	0.000	13:43

Average = 0.3005
 Std Dev = 0.0004



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 LF

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100375

Date: 08/01/2012
Time: 14:00:02

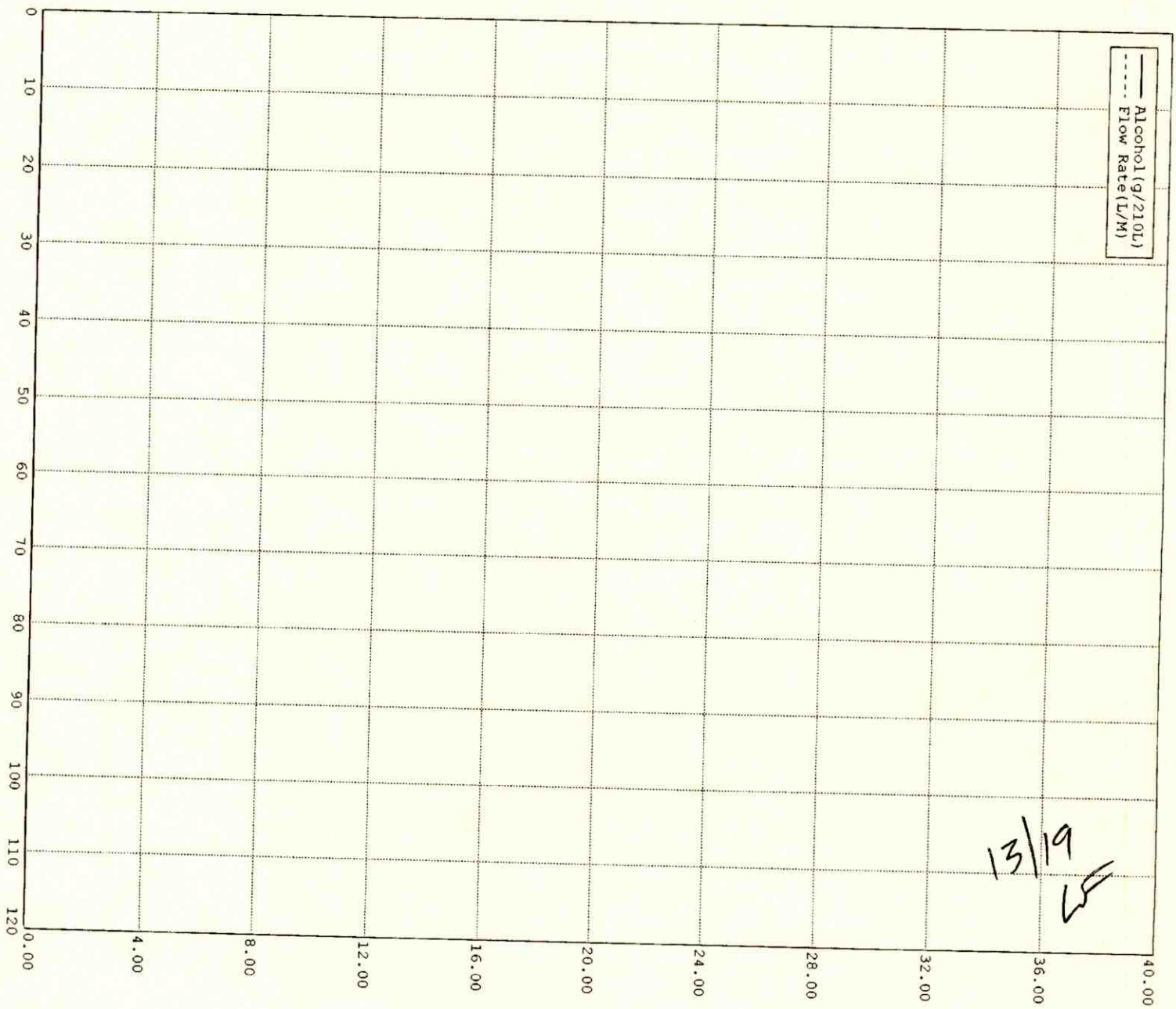
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:02
BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.079	14:02
BLANK TEST	0.000	14:03
SUBJECT SAMPLE	INCOMPLETE	14:05



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100375

Date: 08/01/2012
Time: 14:31:31

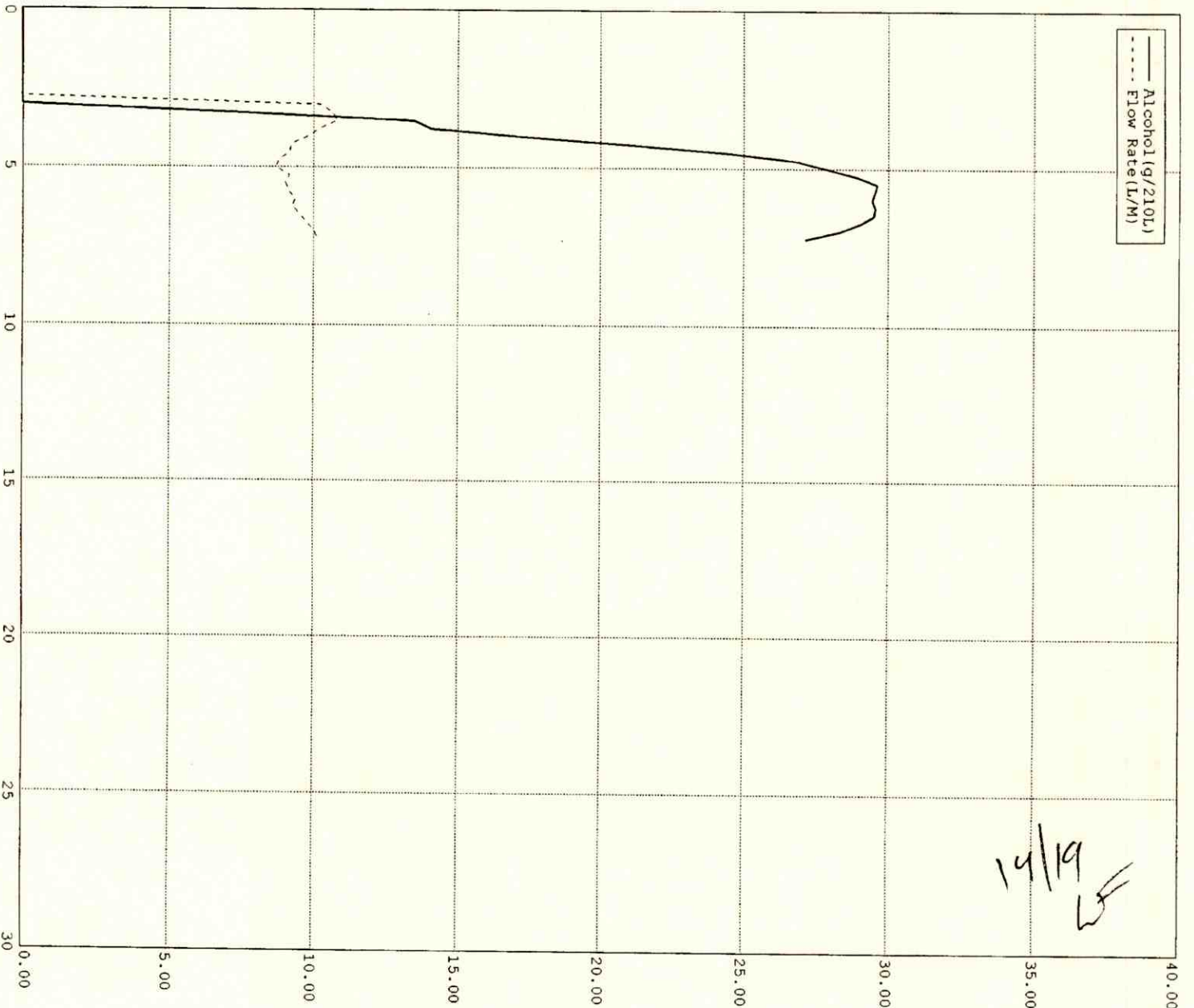
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:34
BLANK TEST	0.000	14:34
INTERNAL STANDARD	VERIFIED	14:34
EXTERNAL STANDARD	0.079	14:35
BLANK TEST	0.000	14:36
SUBJECT SAMPLE	INVALID	14:36



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100375

Date: 08/01/2012
Time: 14:40:49

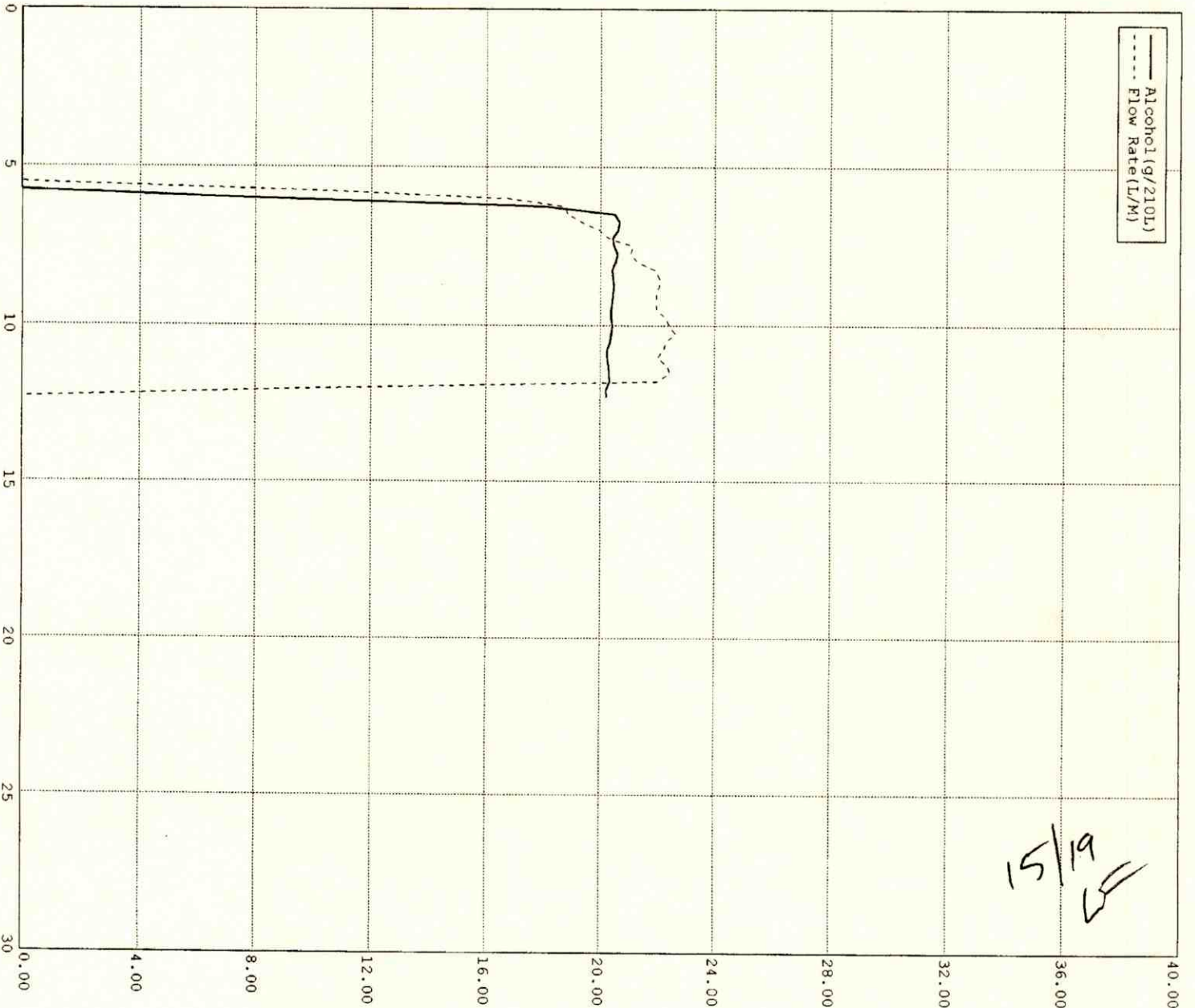
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.60: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:43
BLANK TEST	0.000	14:43
INTERNAL STANDARD	VERIFIED	14:43
Xg = 0.091 (0.38%)		
EXTERNAL STANDARD	0.079	14:44
X[1] = 0.0794 (0.0005)	(0.0011)	
BLANK TEST	0.000	14:45
SUBJECT SAMPLE	INTERFERENCE	14:45
X[1] = 0.1014 (-0.0151)	(0.0007)	



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100375

Date: 08/01/2012
Time: 14:48:17

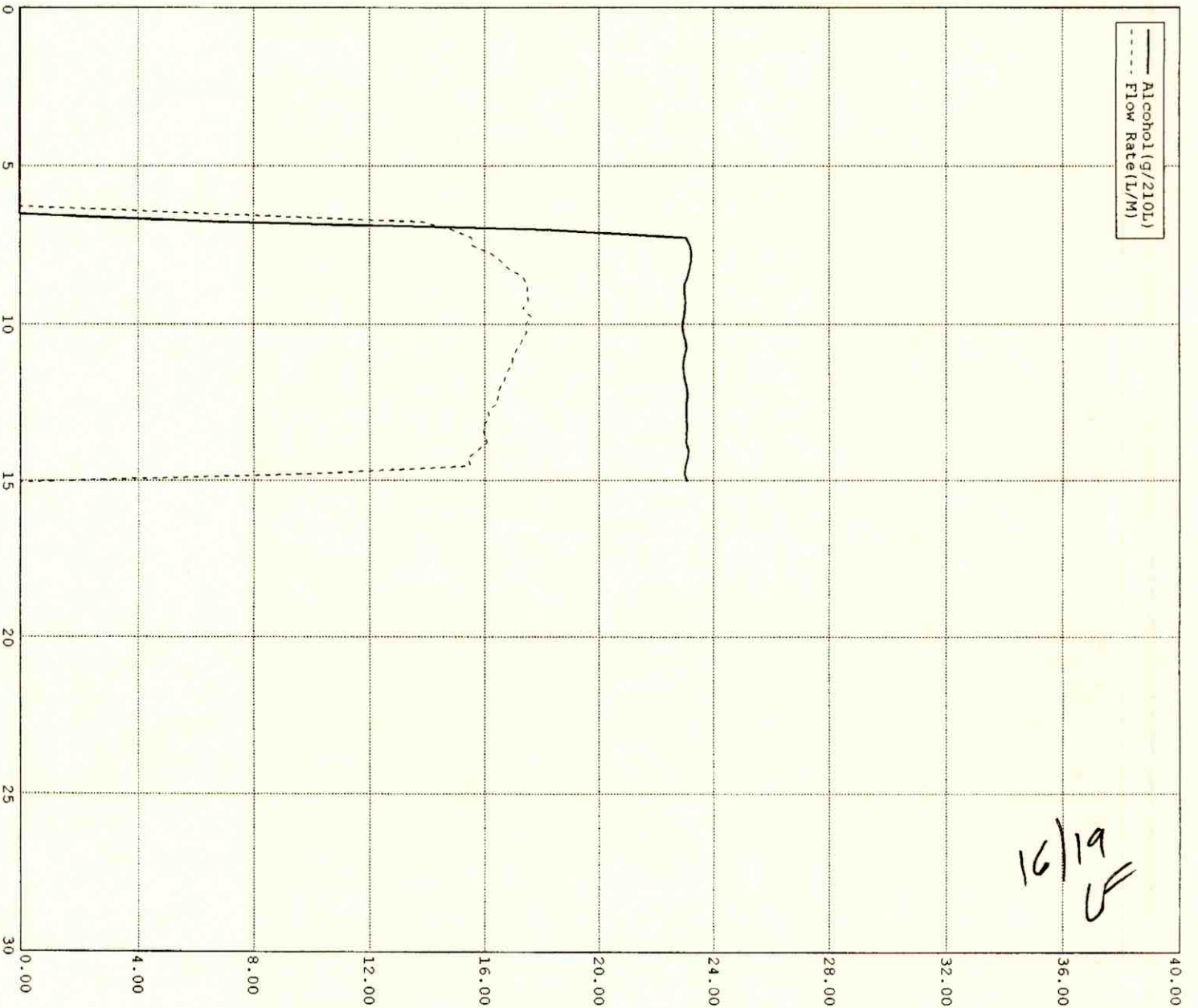
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.61: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:51
BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:51
Xq = 0.091 (0.86%)	0.079	14:51
EXTERNAL STANDARD	X[1] = 0.0793 (0.0001)	0.0008
BLANK TEST	0.000	14:52
SUBJECT SAMPLE	INTERFERENCE	14:53
X[1] = 0.1154 (-0.0163)	(0.0023)	



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100375

Date: 08/01/2012
 Time: 14:56:13

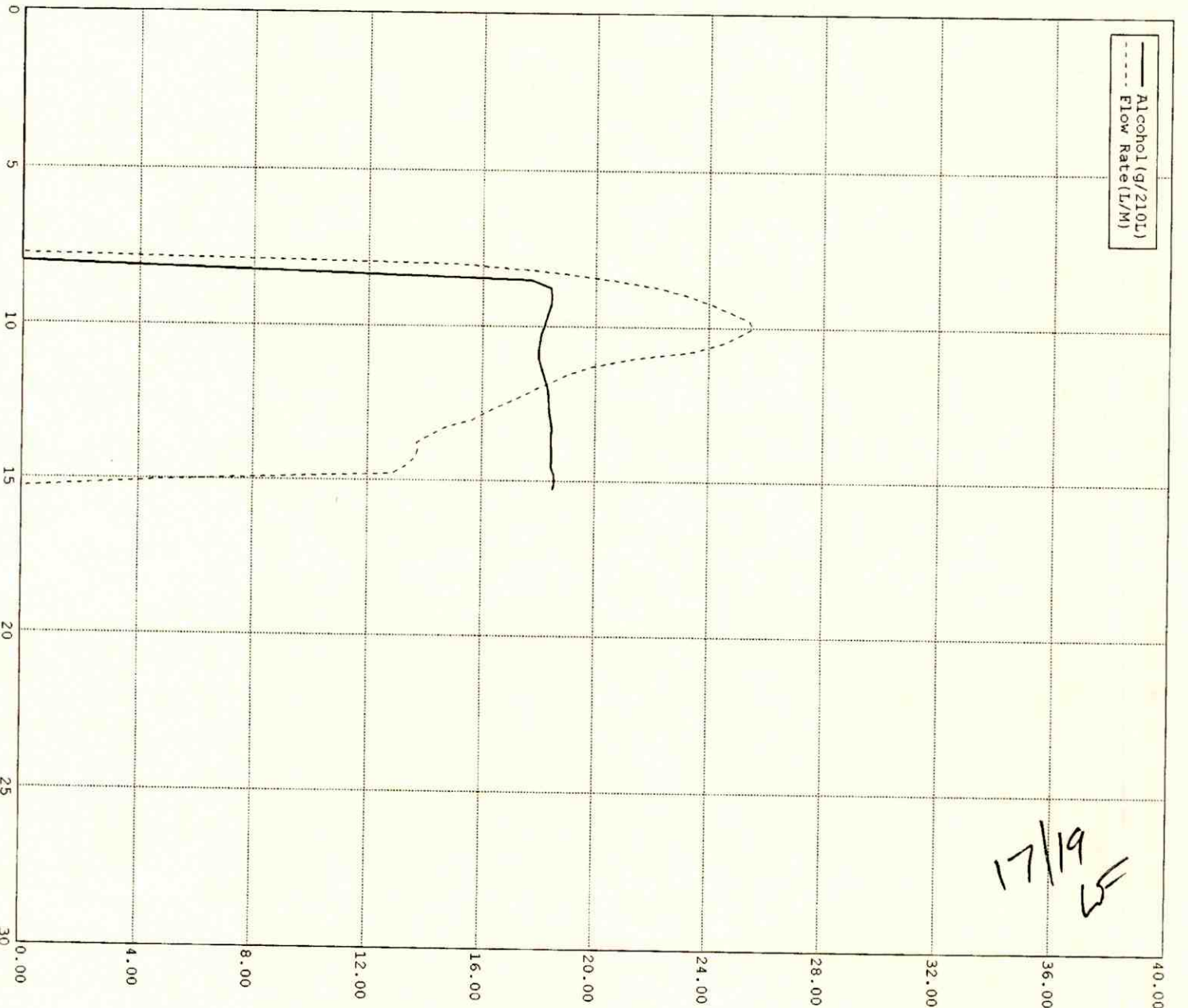
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.60: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:58
BLANK TEST	0.000	14:58
INTERNAL STANDARD	VERIFIED	14:58
Xq = 0.091 (0.86%)		
EXTERNAL STANDARD	0.079	14:59
X[1] = 0.0790 (0.0000)	(0.0006)	
BLANK TEST	0.000	14:59
SUBJECT SAMPLE (Vol=2.23L)	0.093	15:00
X[1] = 0.0932 (0.0011)	(0.0009)	
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.079	15:01
X[1] = 0.0793 (0.0005)	(0.0013)	
BLANK TEST	0.000	15:02



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100375

Date: 08/01/2012
Time: 15:25:16

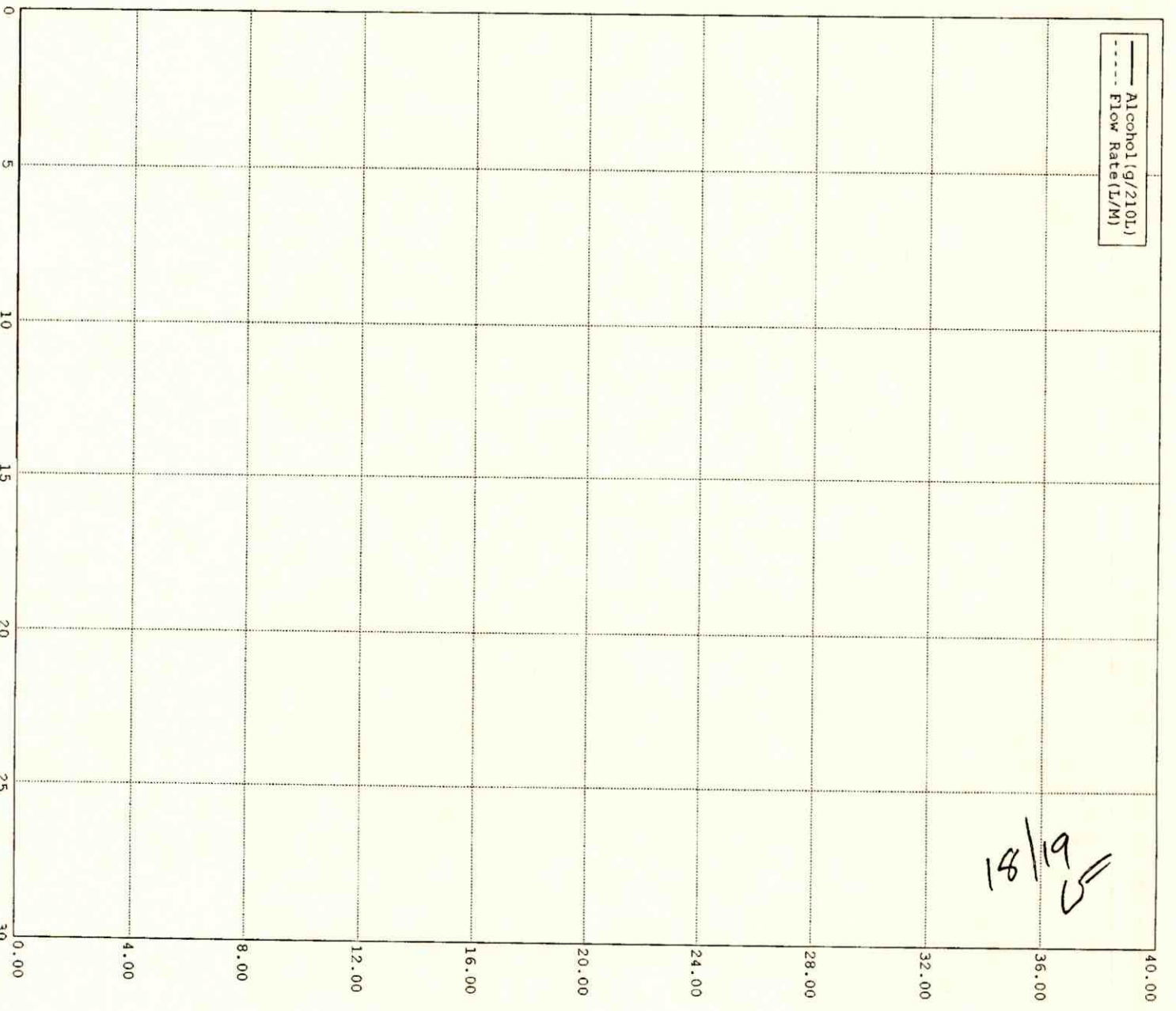
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:26
BLANK TEST	0.000	15:26
INTERNAL STANDARD	VERIFIED	15:26
EXTERNAL STANDARD	0.079	15:27
BLANK TEST	0.000	15:27
RFI DETECTED		



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100375

Date: 08/02/2012
 Time: 08:12:12

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 29.58: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:14
BLANK TEST	0.000	08:14
INTERNAL STANDARD	VERIFIED	08:14
EXTERNAL STANDARD	0.079	08:14
BLANK TEST	0.000	08:15
SUBJECT SAMPLE	0.000	08:16
BLANK TEST	0.000	08:17
EXTERNAL STANDARD	0.079	08:17
BLANK TEST	0.000	08:18

