

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100414 Analyst CTF Start Date 9/12/12
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 02012080A1 Exp 3/1/14
 - iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 3/1/13
 - v. 0.200g/210L Mnf Guth Lot 1120 Exp 7/19/13
 - 1. Simulator S/N DR4178 Date Calibrated 2/21/12
 - vi. 0.300g/210L Mnf Guth Lot 1110 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 N/A

End Date 9/13/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 09/12/2012
Time: 09:11:39

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 47.1°C PASSED

PUMP INFO
Flow Rate = 5.273 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
✓

Technician Screen

DATAMASTER dmt: 100414

Date: 09/12/2012
Time: 9:36 AM

Temperatures (°C)

Sample Cell: 49.6°C
Breath Tube: 46.0°C

Current Barometer 29.5 in
Volume (Ltr) 1.49

Settings

Lamp: 1.82 V
Bias: 79 V
Cooler: 1.59 V
Chopper: 528 Hz

Voltages (V)

Flow: 1.05 V
Detector: -0.029 V

3/19
CF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 05/18/2011
Time: 14:24:08

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca = 0.1000
CAL = 0.986849 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0046 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0865 0.0500 <= Xq < 0.2000
a21 = 1.125008 1.050 <= a21 < 1.300
a31 = 0.489070 0.300 <= a31 < 0.800

4/19
CF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

Date: 09/12/2012
 Time: 10:39:10

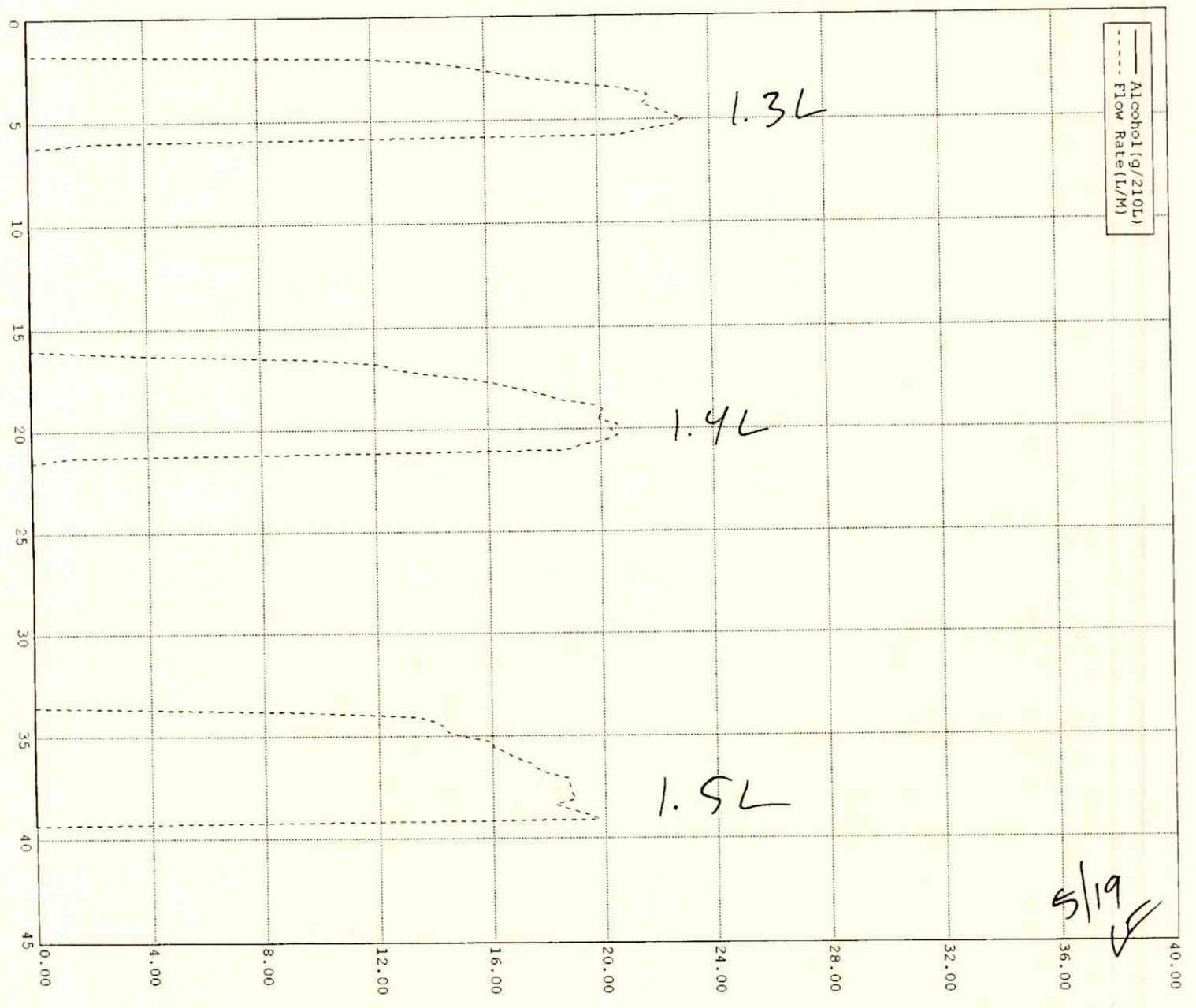
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.47: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:40
BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:40
EXTERNAL STANDARD	0.078	10:40
BLANK TEST	0.000	10:41
SUBJECT SAMPLE	0.000	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.079	10:43
BLANK TEST	0.000	10:44



LINEARITY CHECK

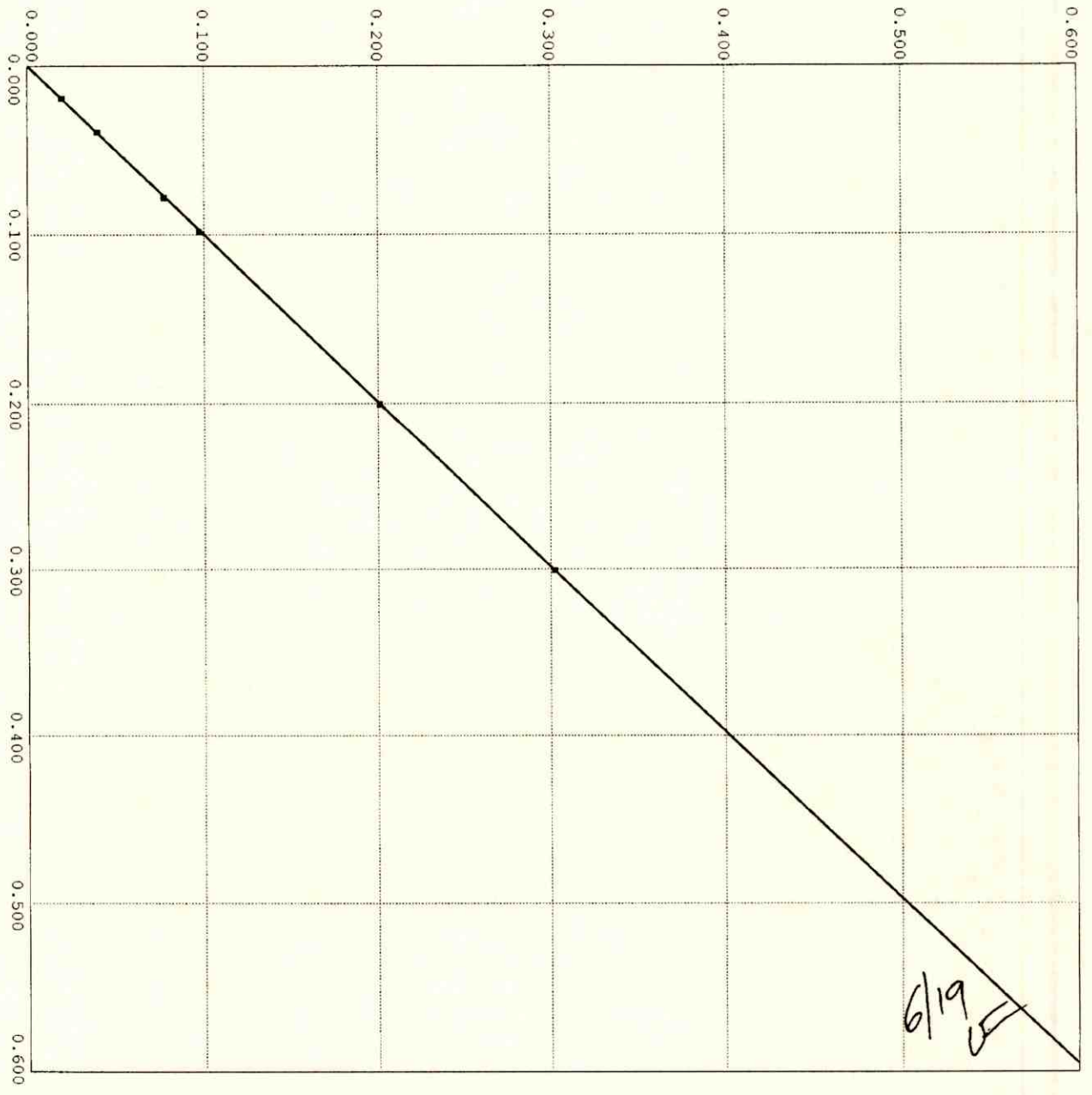
Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 09/12/2012
Time: 13:23:11

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0201	0.0003
0.039	0.0404	0.0003
0.078	0.0782	0.0003
0.098	0.0983	0.0003
0.200	0.2019	0.0008
0.300	0.3030	0.0006

SLOPE = 1.007539
R² = 0.999964



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

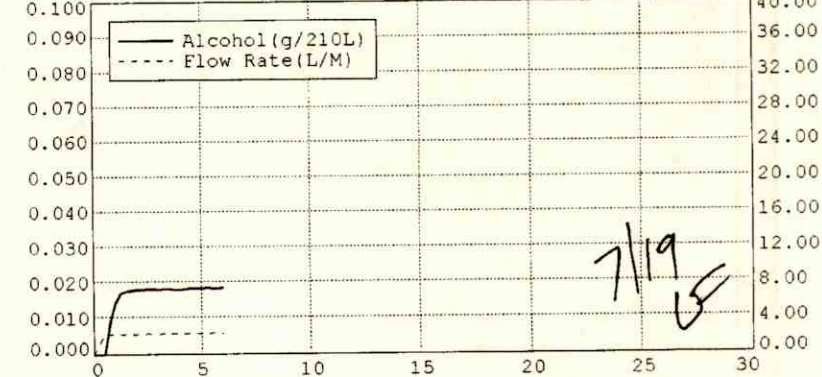
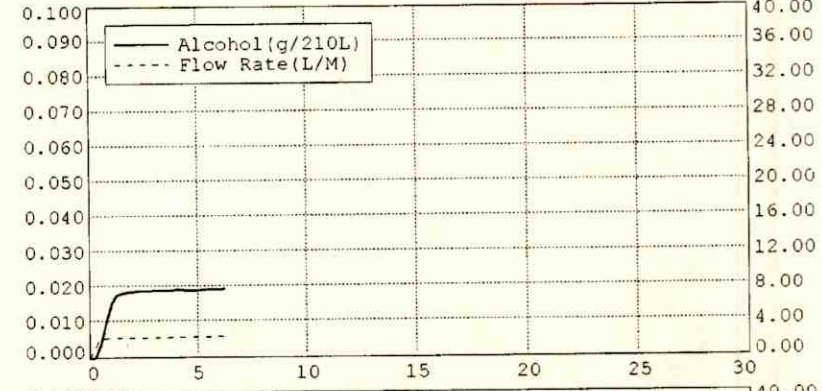
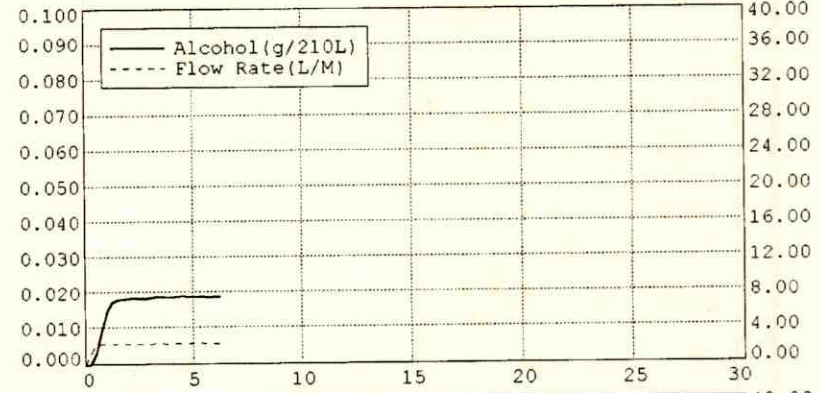
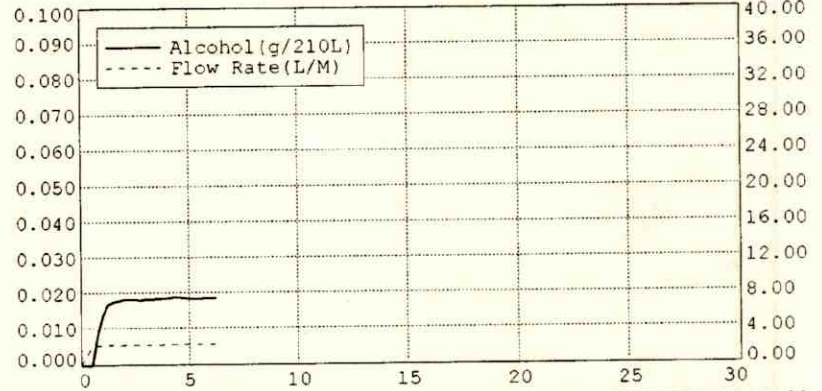
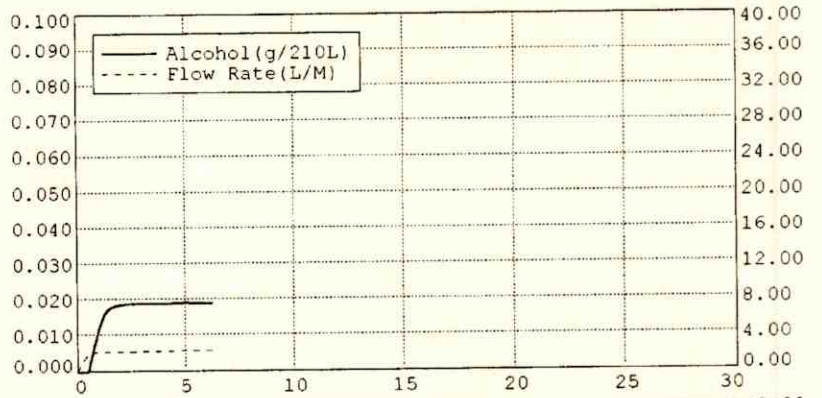
Date: 09/12/2012
 Time: 13:23:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.48: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:25
EXTERNAL STANDARD	0.020	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.020	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.020	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.020	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.019	13:29
BLANK TEST	0.000	13:30

Average = 0.0201
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

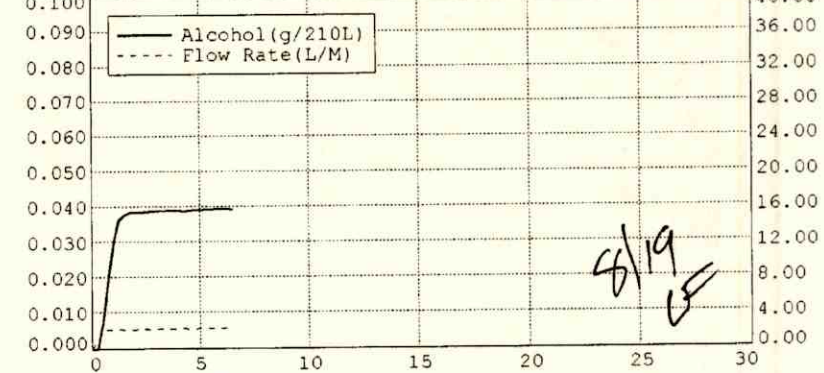
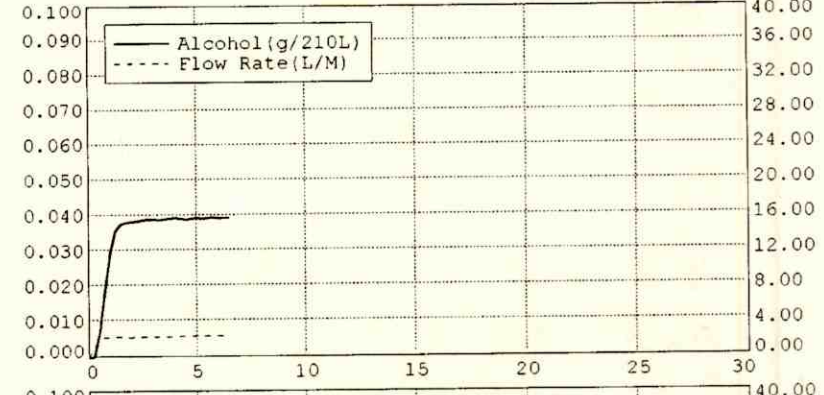
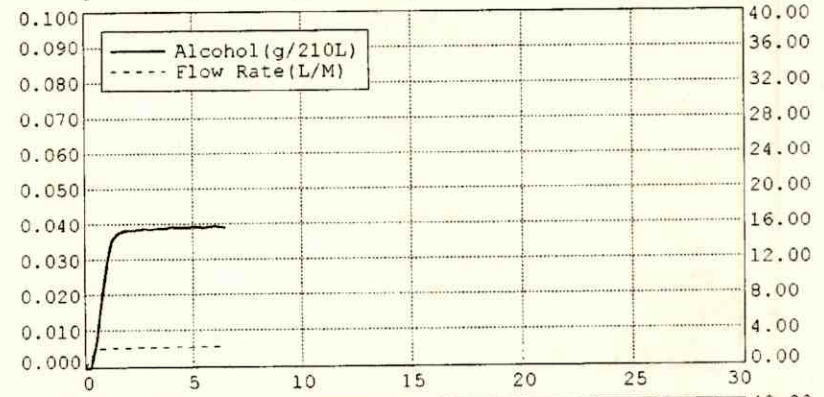
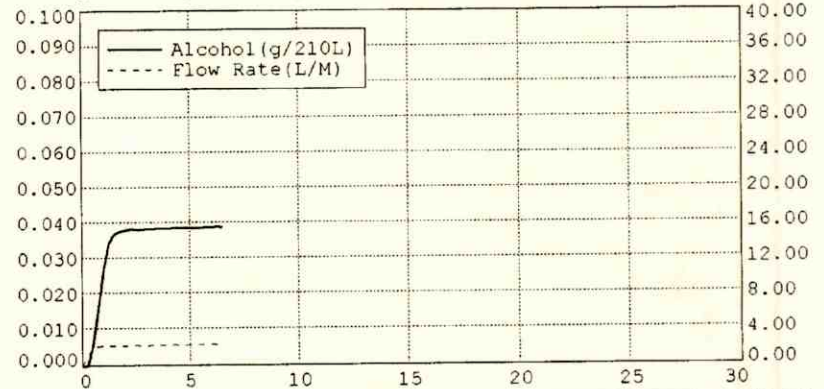
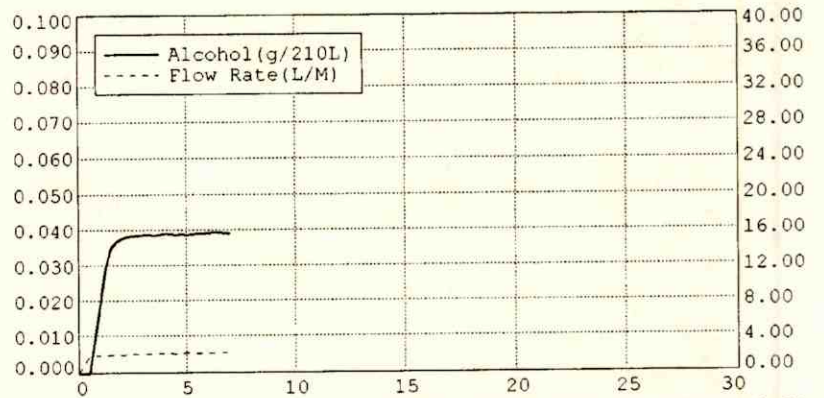
Date: 09/12/2012
 Time: 13:31:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.48: 0.039
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:32
INTERNAL STANDARD	VERIFIED	13:32
EXTERNAL STANDARD	0.040	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.039	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.040	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.040	13:36
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.040	13:37
BLANK TEST	0.000	13:38

Average = 0.0404
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

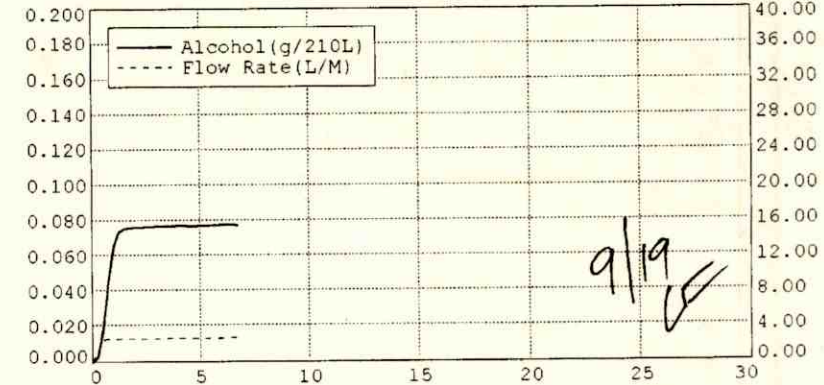
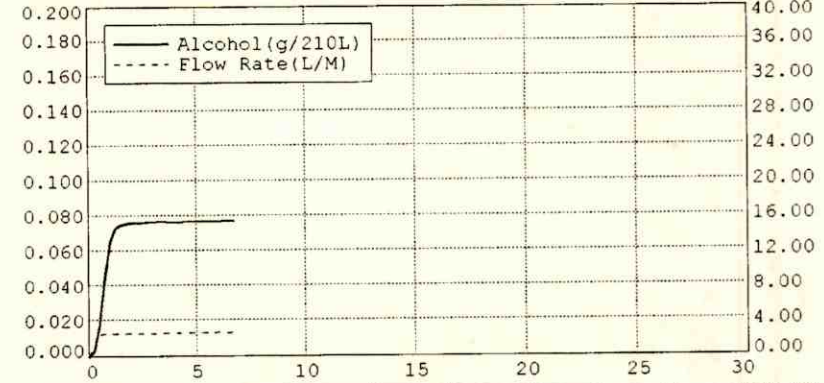
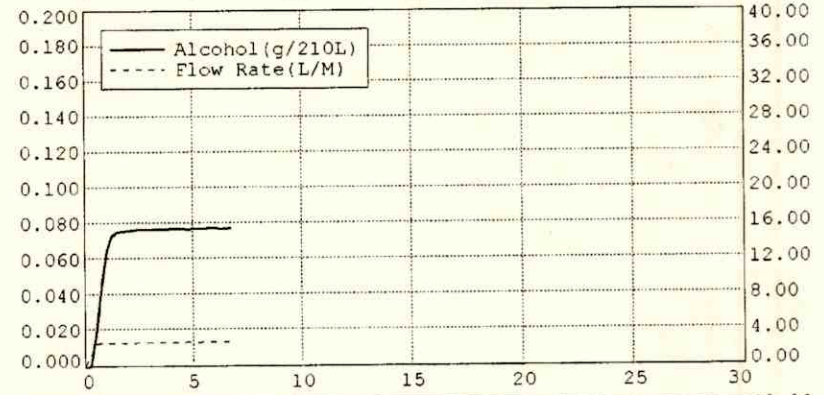
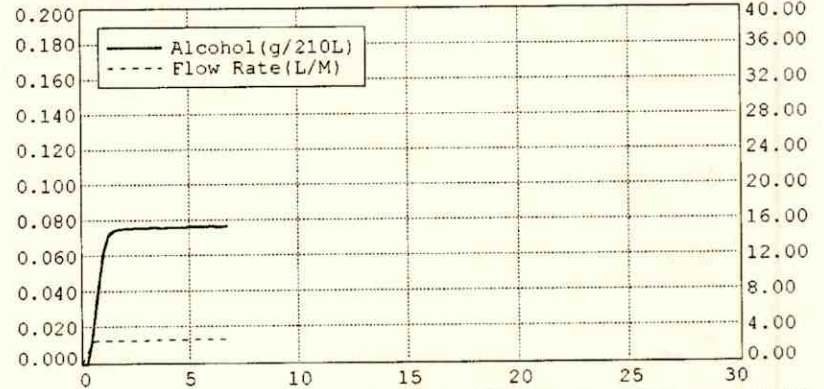
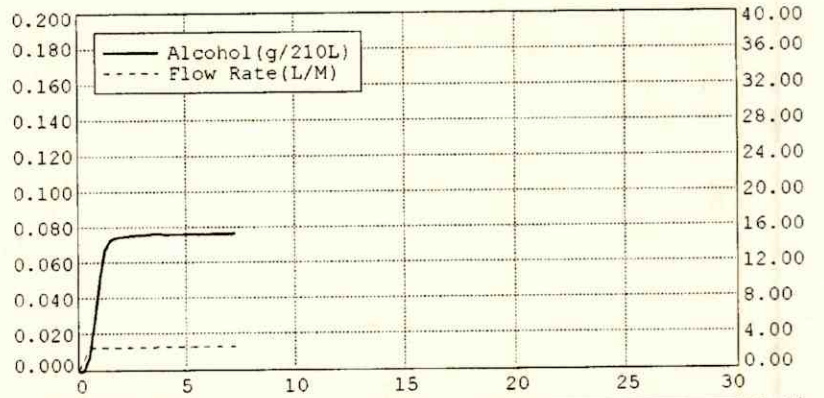
Date: 09/12/2012
 Time: 13:40:39

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:42
INTERNAL STANDARD	VERIFIED	13:42
EXTERNAL STANDARD	0.078	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.077	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.078	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.078	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.078	13:46
BLANK TEST	0.000	13:47

Average = 0.0782
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

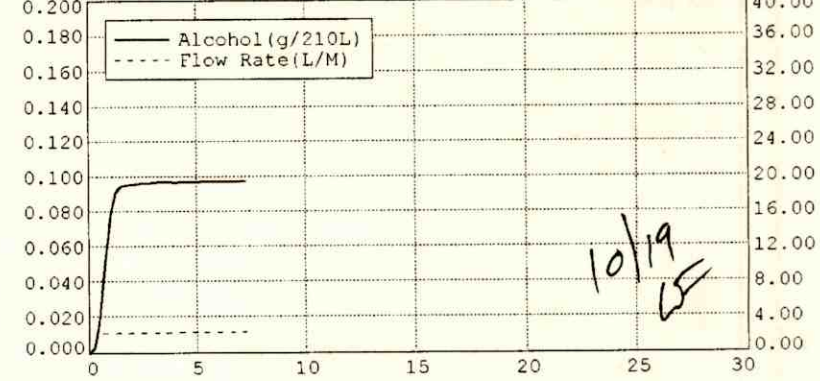
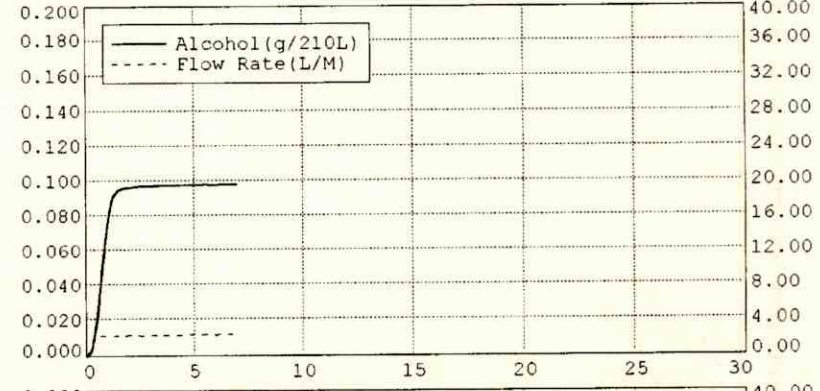
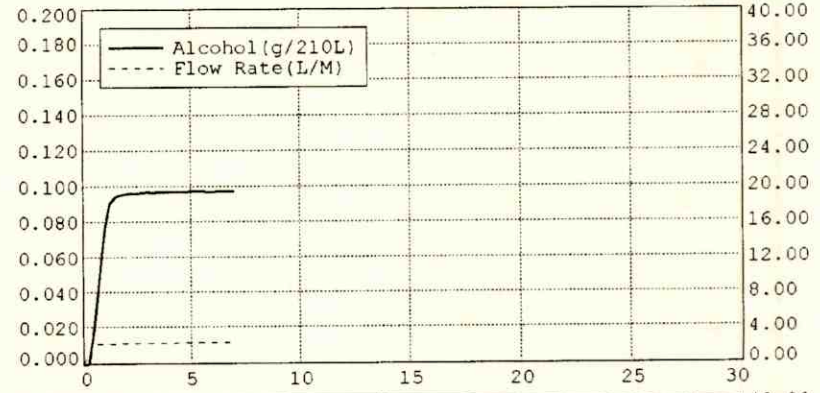
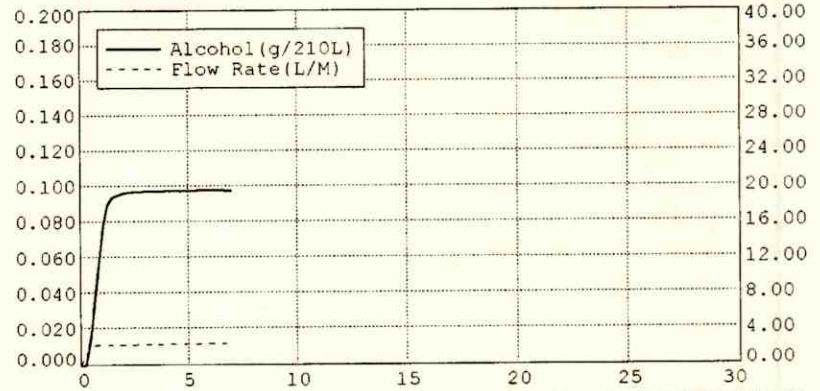
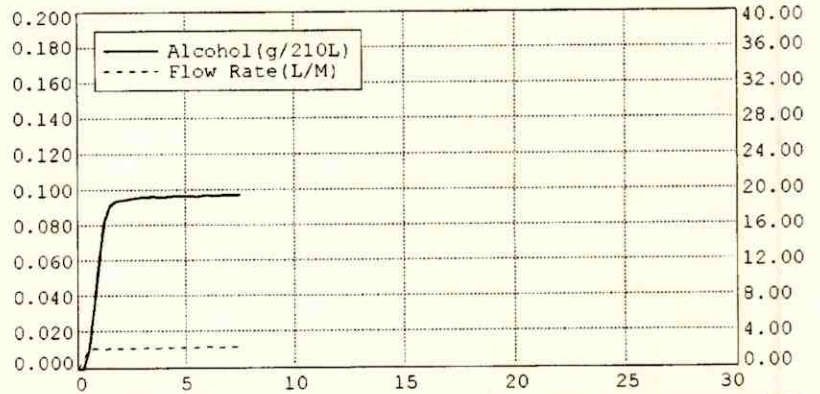
Date: 09/12/2012
 Time: 13:50:37

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:52
INTERNAL STANDARD	VERIFIED	13:52
EXTERNAL STANDARD	0.097	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.098	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.098	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.098	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.098	13:56
BLANK TEST	0.000	13:57

Average = 0.0983
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

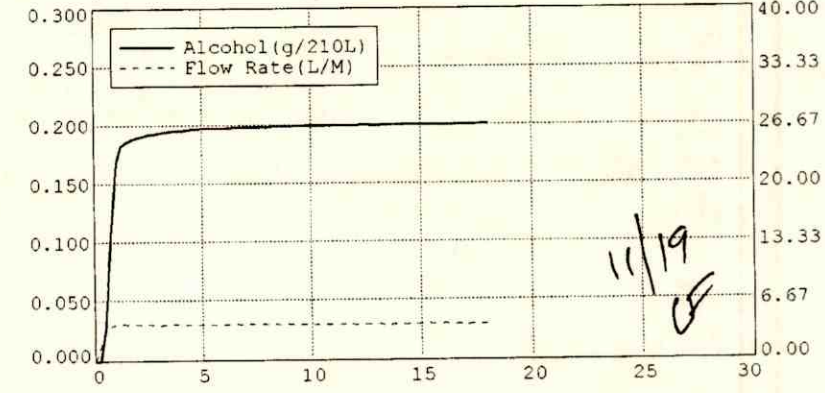
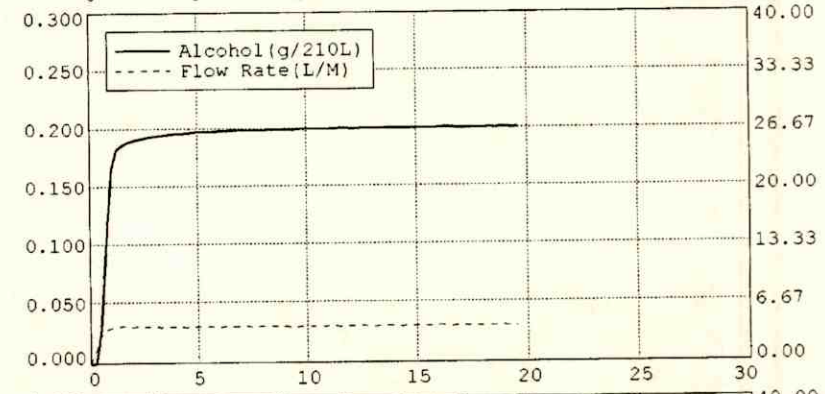
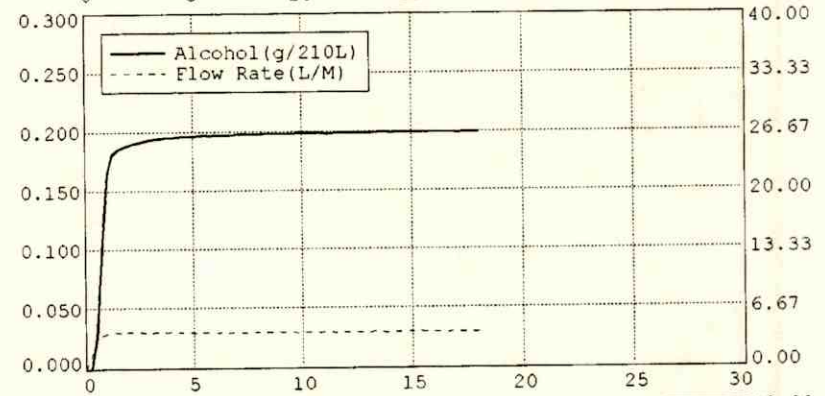
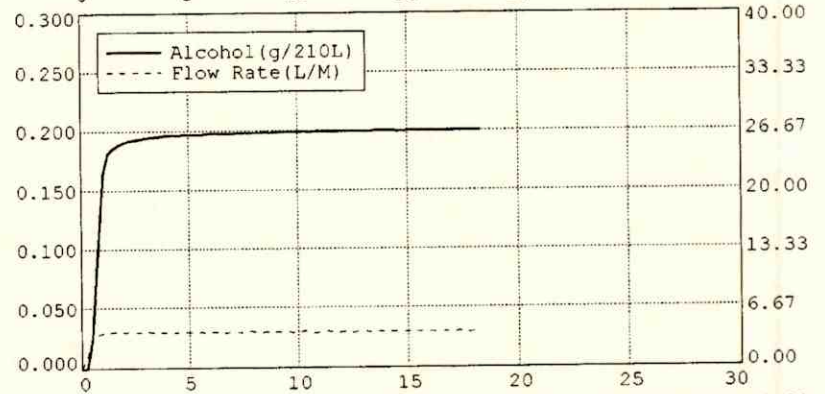
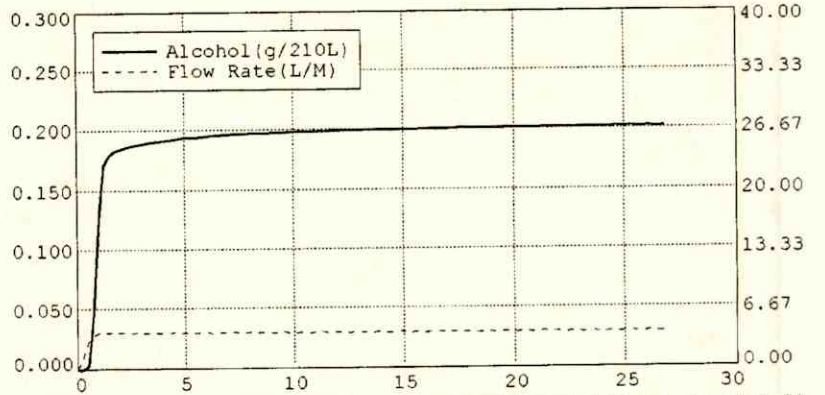
Alaska Department of Public Safety
 DATAMASTER dmt: 100414

Date: 09/12/2012
 Time: 14:00:06

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

BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.203	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.201	14:04
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.201	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.201	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.201	14:07
BLANK TEST	0.000	14:08

Average = 0.2019
 Std Dev = 0.0008



LINEARITY CHECK: Control Test 6

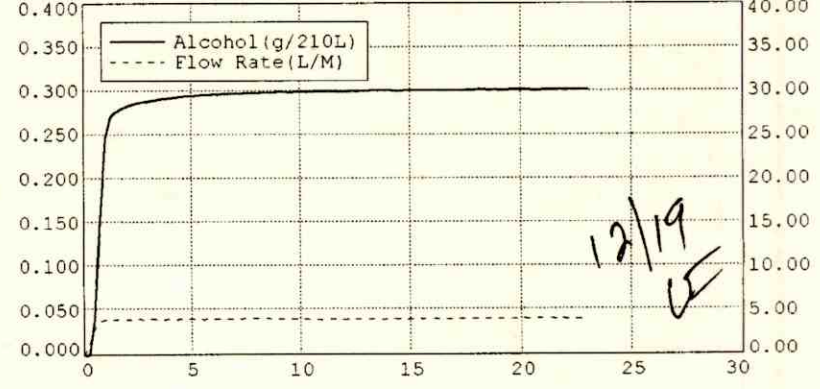
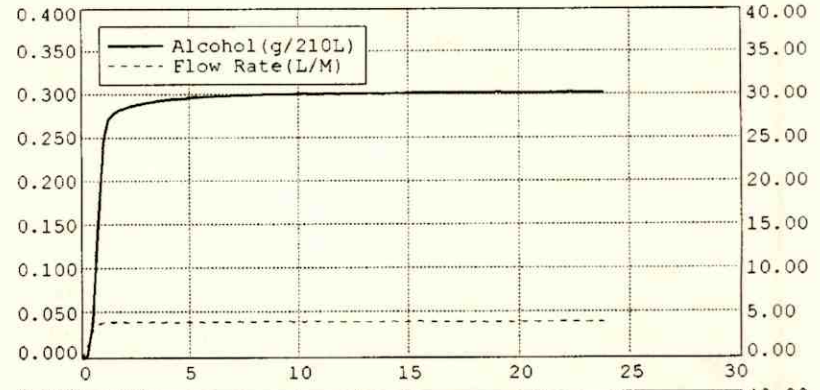
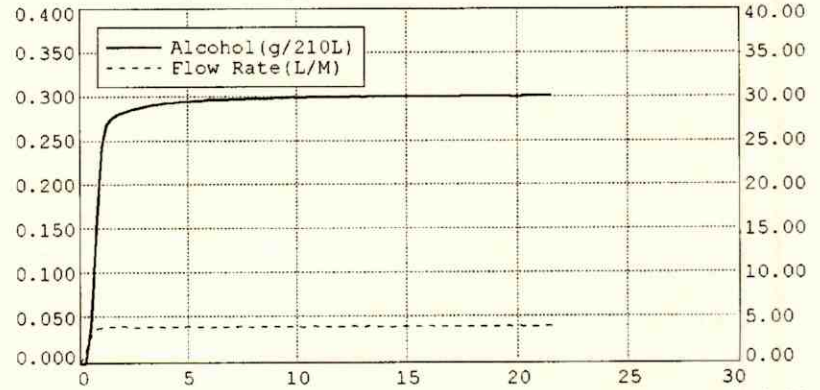
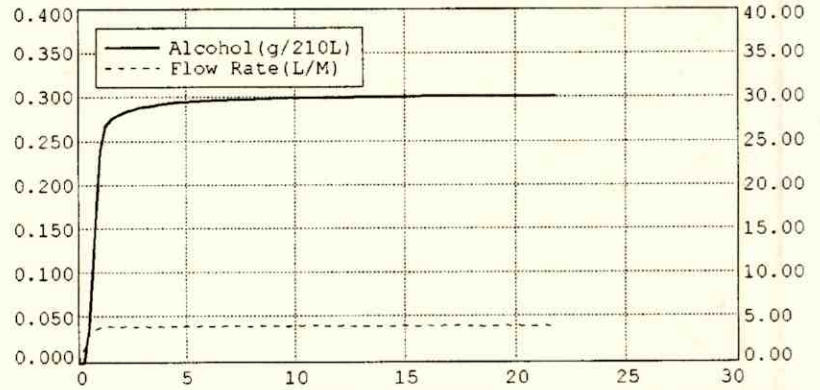
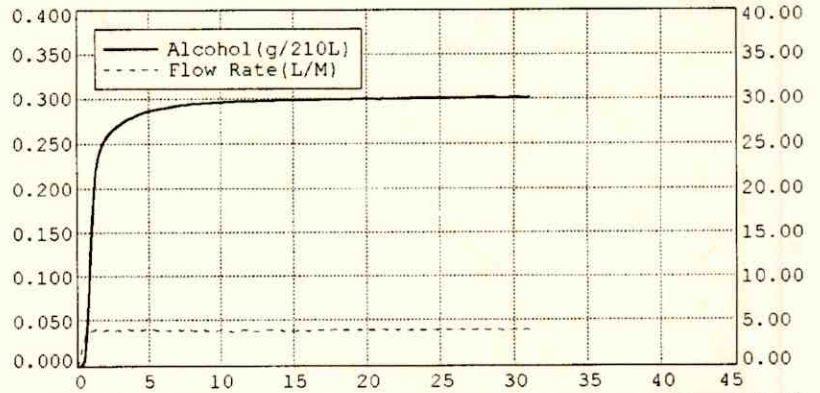
Alaska Department of Public Safety
 DATAMASTER dmt: 100414

Date: 09/12/2012
 Time: 14:10:27

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

BLANK TEST	0.000	14:11
INTERNAL STANDARD	VERIFIED	14:11
EXTERNAL STANDARD	0.303	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.302	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.302	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.303	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.302	14:17
BLANK TEST	0.000	14:18

Average = 0.3030
 Std Dev = 0.0006



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 09/12/2012
Time: 14:28:43

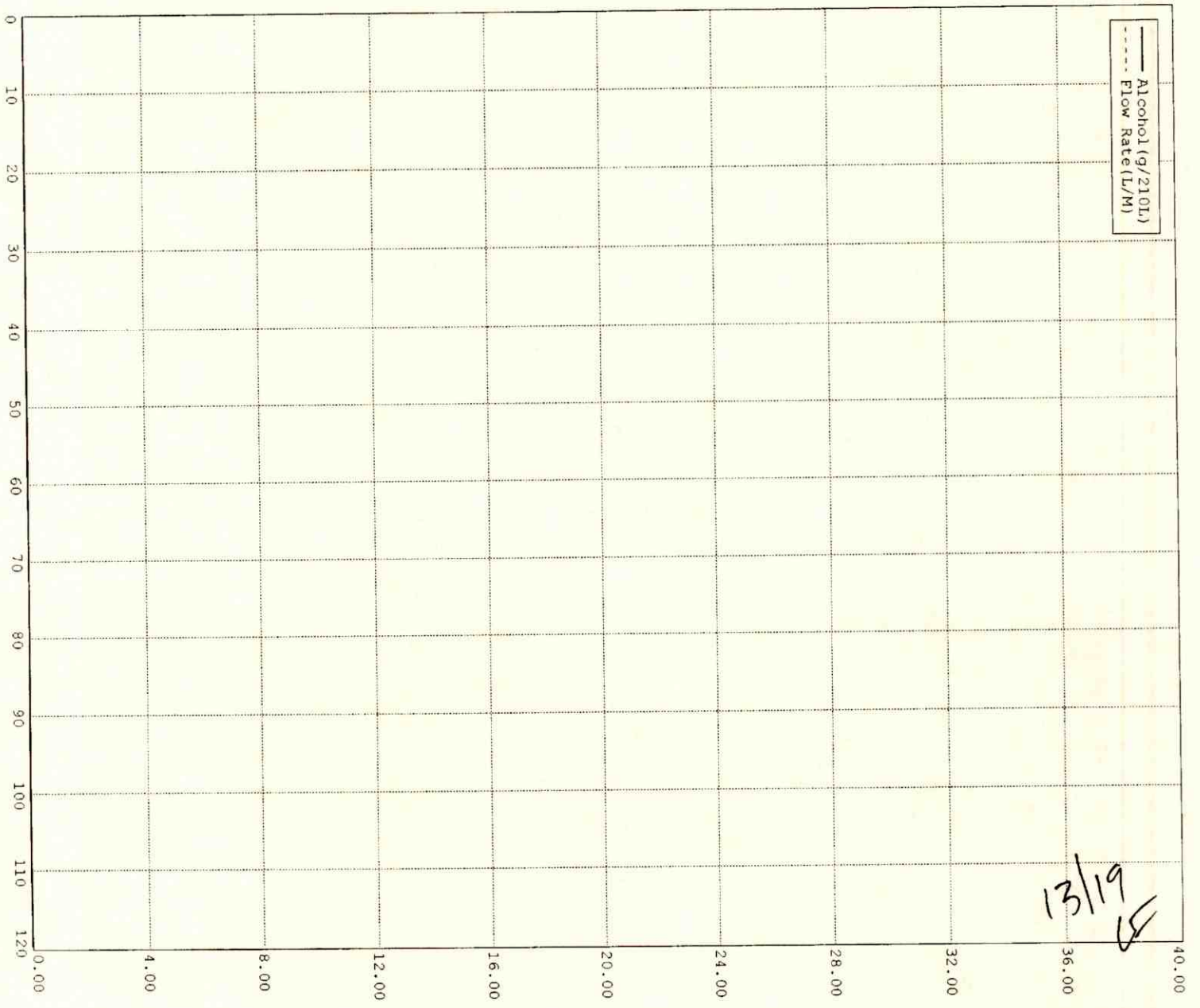
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.49: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:29
BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.079	14:30
BLANK TEST	0.000	14:31
SUBJECT SAMPLE	INCOMPLETE	14:33



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100414

Date: 09/12/2012
Time: 14:38:28

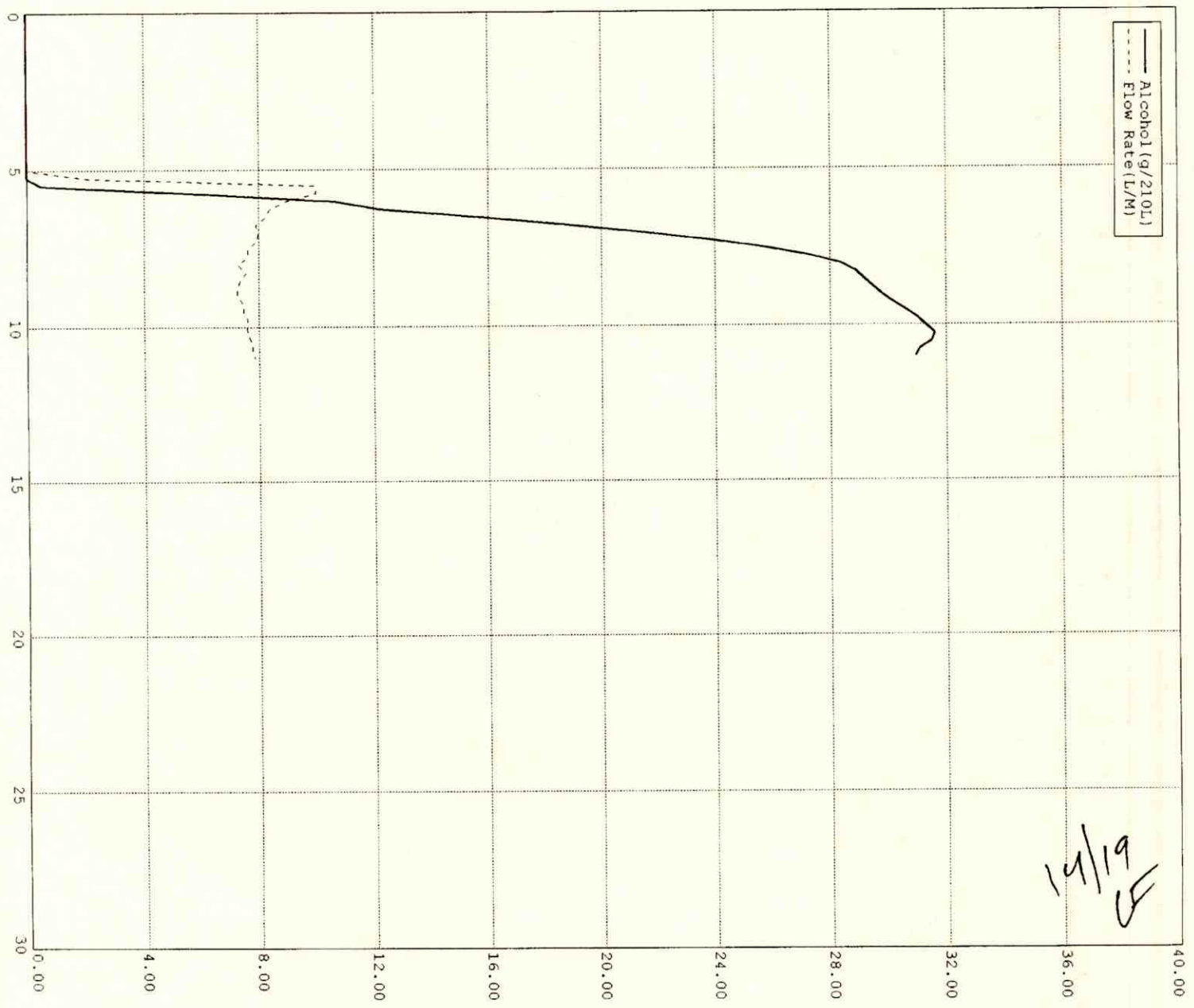
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:42
BLANK TEST	0.000	14:42
INTERNAL STANDARD	VERIFIED	14:42
EXTERNAL STANDARD	0.078	14:42
BLANK TEST	0.000	14:43
SUBJECT SAMPLE	INVALID	14:43



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 09/13/2012
Time: 08:23:38

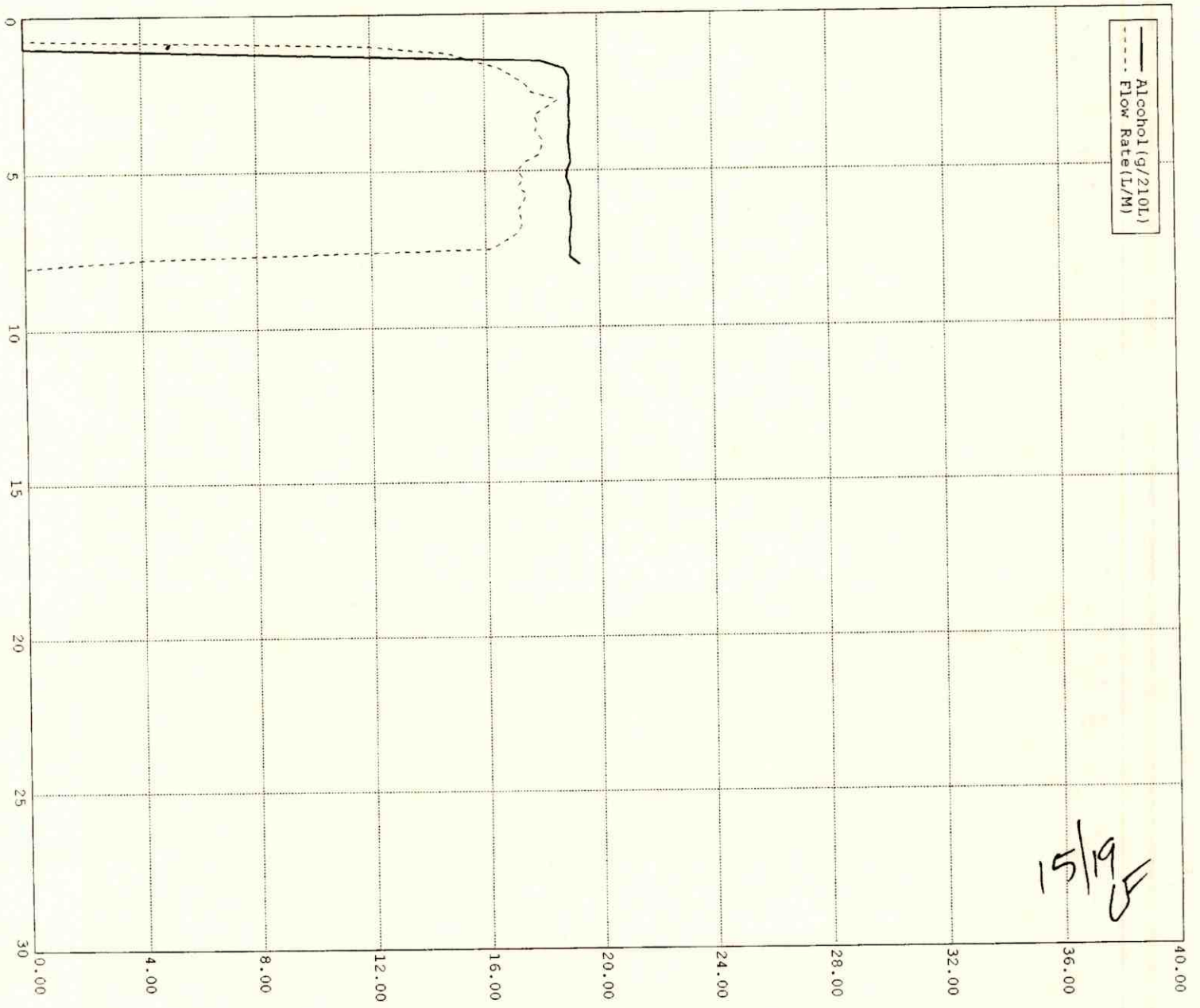
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.67: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:27
BLANK TEST	0.000	08:27
INTERNAL STANDARD	VERIFIED	08:27
Xg = 0.088 (1.81%)	0.079	08:27
EXTERNAL STANDARD	X[1] = 0.0798 (-0.0015)	(0.0003)
BLANK TEST	0.000	08:28
SUBJECT SAMPLE	INTERFERENCE	08:29
X[1] = 0.0970 (-0.0127)	(-0.0015)	



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 09/13/2012
Time: 08:42:39

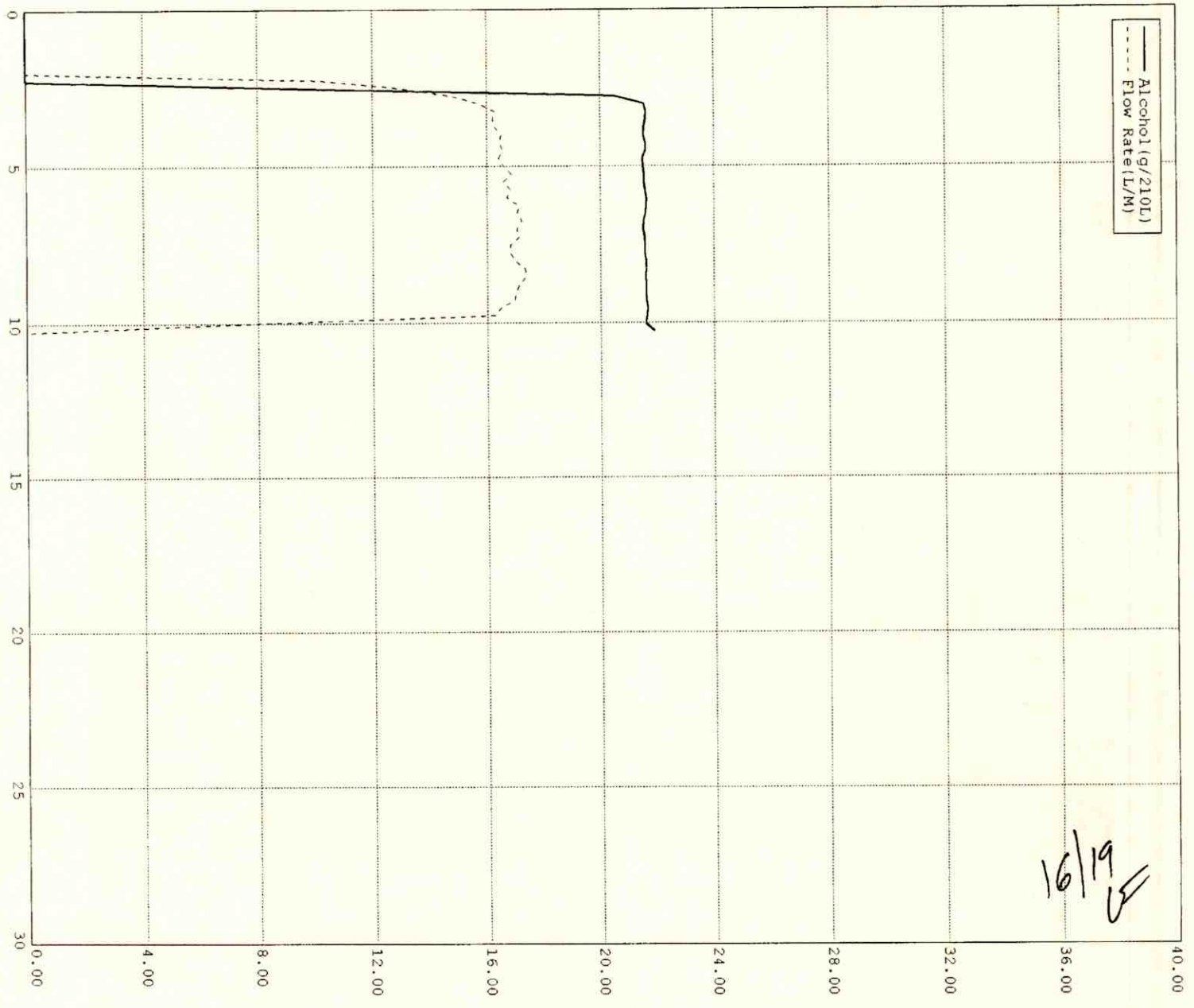
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.67: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:43
BLANK TEST	0.000	08:43
INTERNAL STANDARD	VERIFIED	08:43
Xq = 0.089 (2.42%)		
EXTERNAL STANDARD	0.079	08:44
X[1] = 0.0796 (-0.0009) (0.0032)		
BLANK TEST	0.000	08:45
SUBJECT SAMPLE	INTERFERENCE	08:45
X[1] = 0.1099 (-0.0193) (0.0026)		



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

Date: 09/13/2012
 Time: 08:47:00

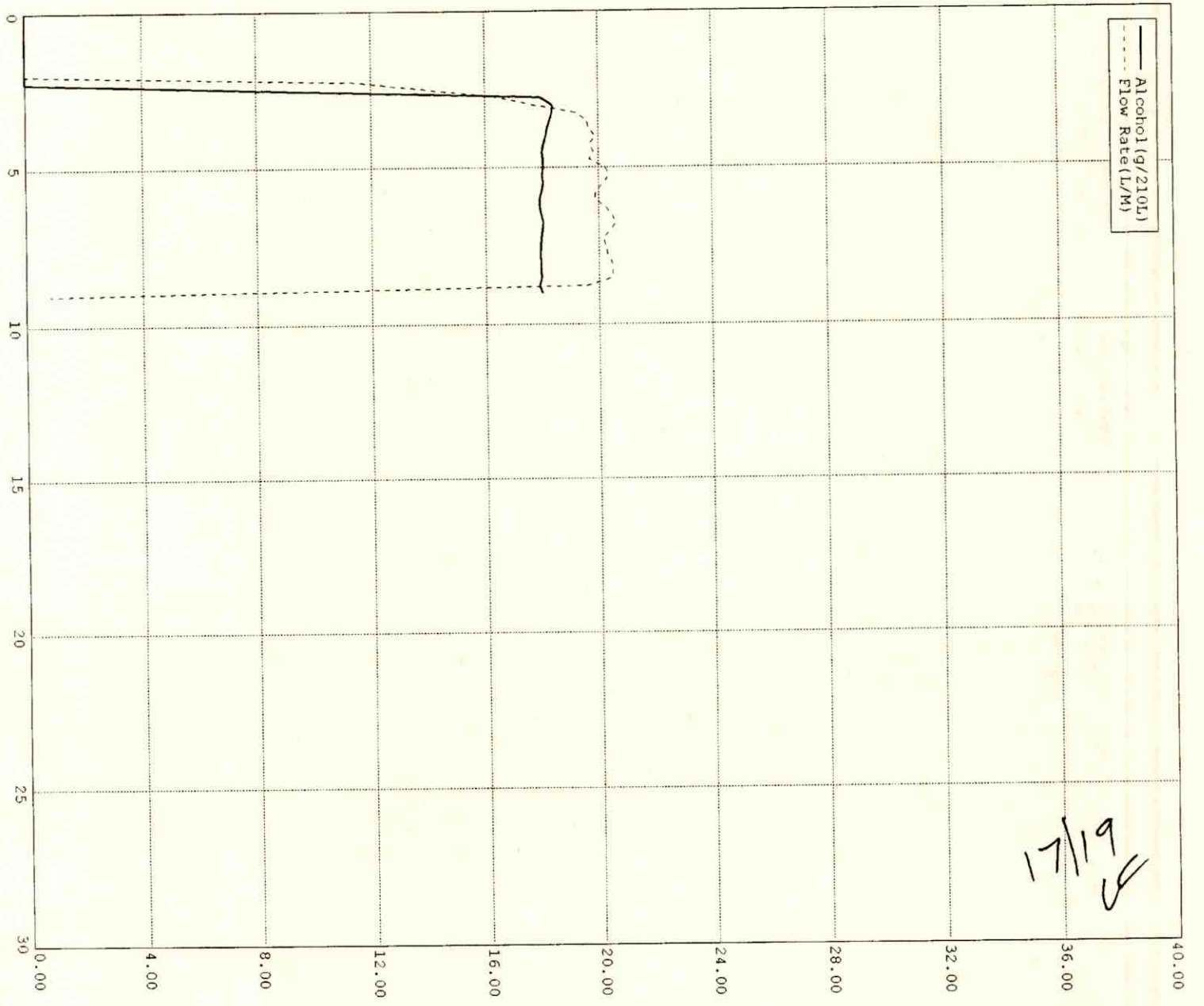
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERERENCE ETOH ONLY
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.67: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:50
BLANK TEST	0.000	08:50
INTERNAL STANDARD	VERIFIED	08:51
Xq = 0.089 (3.02%)		
EXTERNAL STANDARD	0.080	08:51
X[1] = 0.0803 (-0.0008)	(0.0025)	
BLANK TEST	0.000	08:52
SUBJECT SAMPLE (Vol=2.18L)	0.090	08:52
X[1] = 0.0909 (-0.0006)	(0.0007)	
BLANK TEST	0.000	08:53
EXTERNAL STANDARD	0.079	08:53
X[1] = 0.0791 (-0.0016)	(0.0019)	
BLANK TEST	0.000	08:54



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100414

Date: 09/12/2012
Time: 14:51:35

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

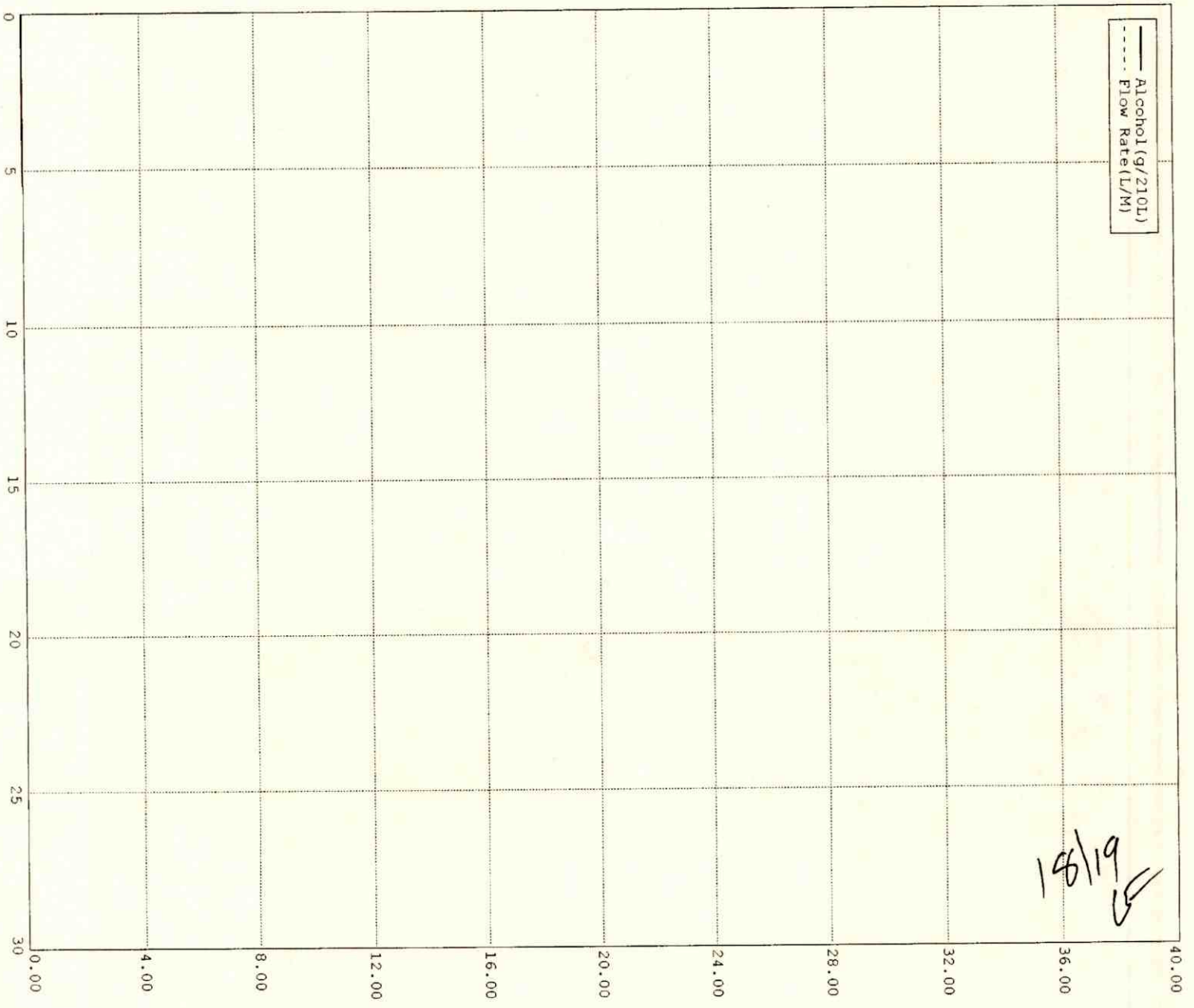
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.49: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:52
BLANK TEST	0.000	14:52
INTERNAL STANDARD	VERIFIED	14:52
EXTERNAL STANDARD	0.078	14:53
BLANK TEST	0.000	14:54

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100414

Date: 09/13/2012
 Time: 09:26:47

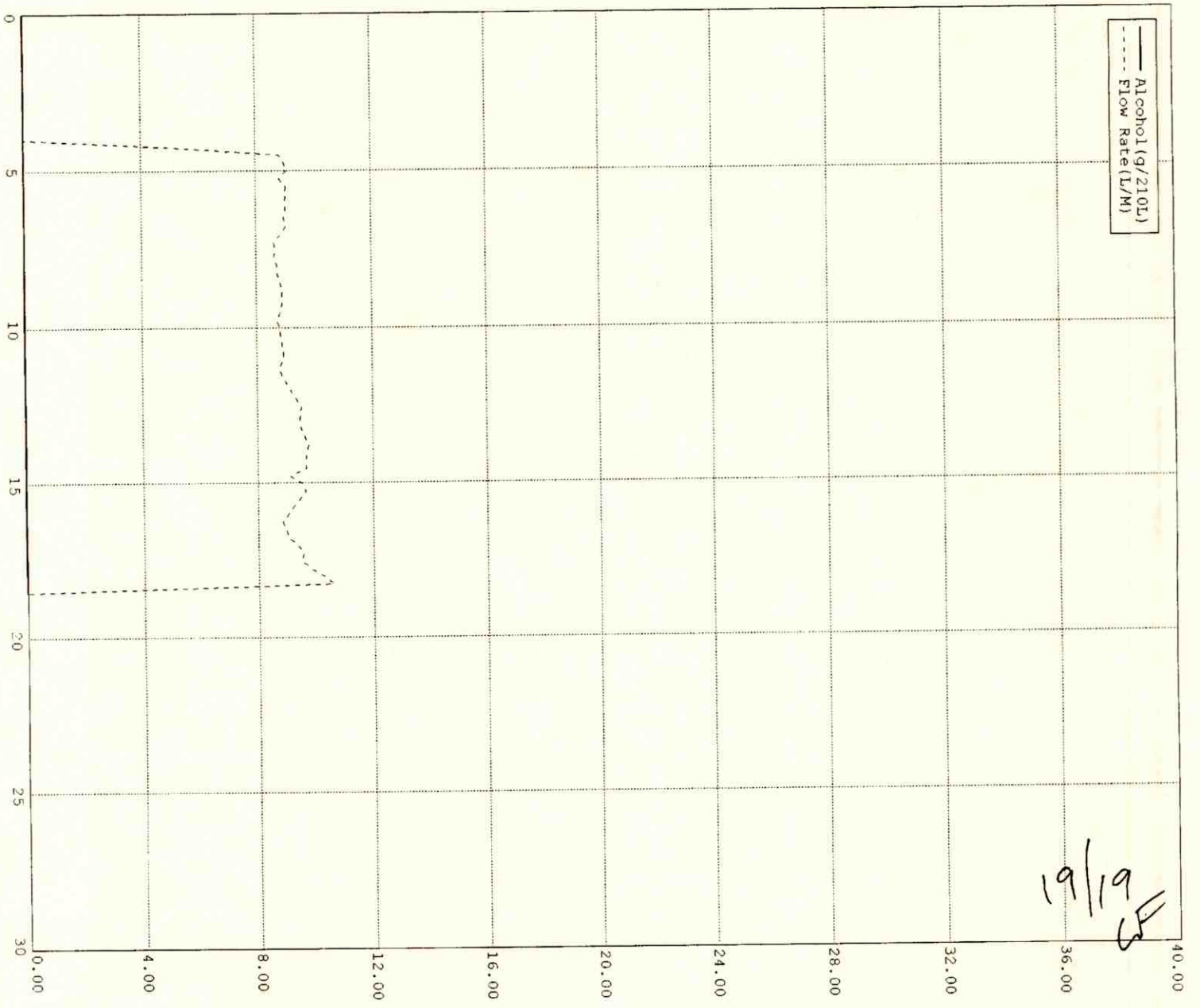
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:29
BLANK TEST	0.000	09:29
INTERNAL STANDARD	0.079	09:29
BLANK TEST	0.000	09:30
SUBJECT SAMPLE	0.000	09:31
BLANK TEST	0.000	09:32
EXTERNAL STANDARD	0.079	09:32
BLANK TEST	0.000	09:33



19/19
 CF