

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100698 Analyst CRF 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 07611000A3 Exp 3/1/13
 - v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/13
 - 1. Simulator S/N DR4178 Date Calibrated 2/21/12
 - vi. 0.300g/210L Mnf Guth Lot 11110 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 1A

Replaced modern board on 9/14/12. Analytical components not affected - CRF

End Date 9/14/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100698

Date: 09/12/2012
Time: 09:11:59

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
Breath Tube = 47.8°C PASSED

PUMP INFO
Flow Rate = 4.371 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: 100698

Date: 09/12/2012
Time: 11:02 AM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 47.4°C

Current Barometer 29.5 in
Volume (Ltr) 1.51

Settings
Lamp: 1.65 V
Bias: 81 V
Cooler: 1.69 V
Chopper: 523 Hz

Voltages (V)
Flow: 1.02 V
Detector: -0.001 V

3/19
WF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100698

Date: 10/31/2011
Time: 11:31:50

Ca = 0.1000
CAL = 1.001976 0.800 <= CAL < 1.200
b1 = 0.0009 0.0000 <= b1 < 0.0040
b2 = 0.0051 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.1153 0.0500 <= Xq < 0.2000
a21 = 1.196919 1.050 <= a21 < 1.300
a31 = 0.369985 0.300 <= a31 < 0.800

4/19
JF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100698

Date: 09/12/2012
 Time: 10:55:11

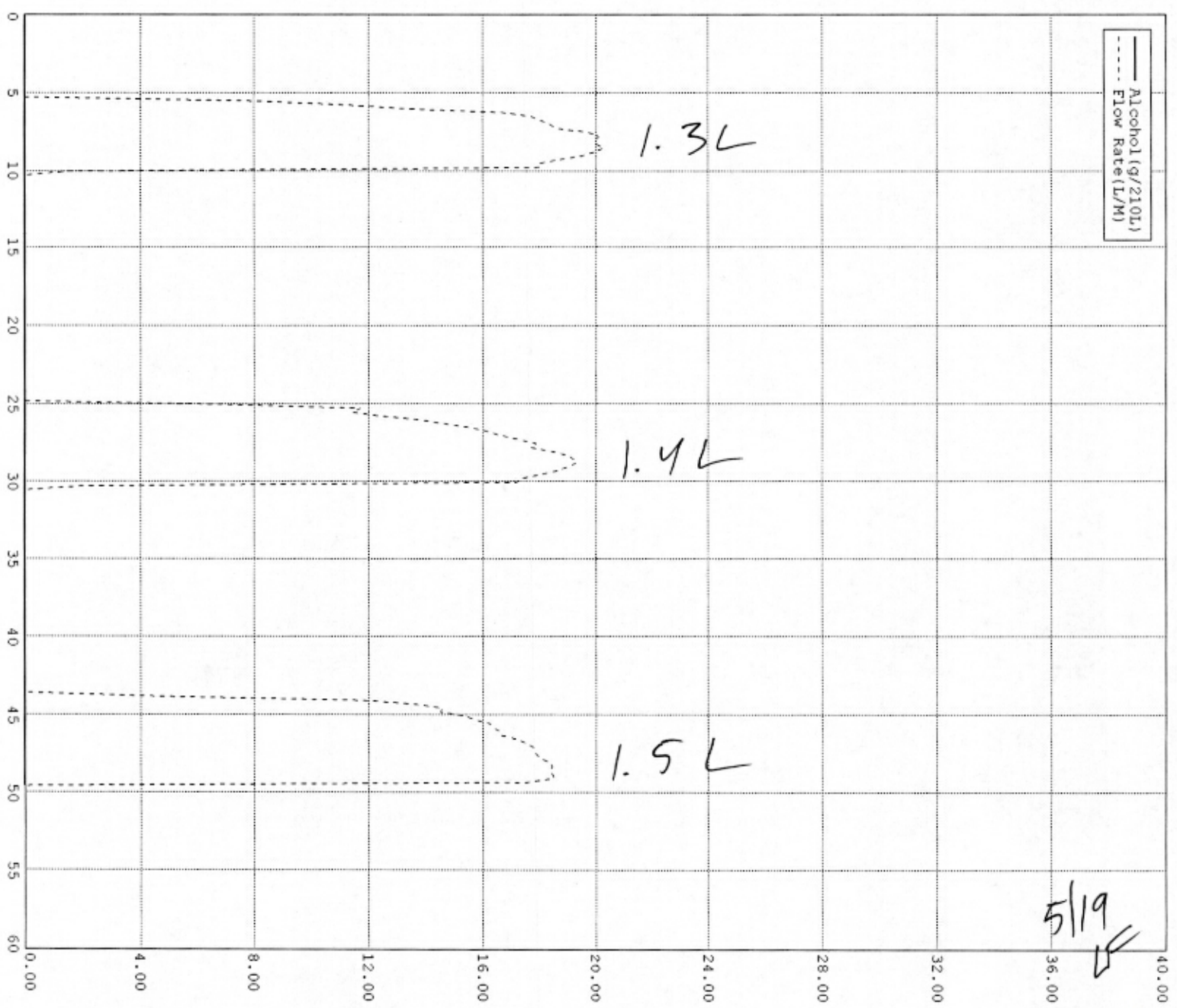
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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	10:56
BLANK TEST	0.000	10:56
INTERNAL STANDARD	VERIFIED	10:56
EXTERNAL STANDARD	0.079	10:56
BLANK TEST	0.000	10:57
SUBJECT SAMPLE	0.000	10:58
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.079	10:59
BLANK TEST	0.000	11:00



LINEARITY CHECK

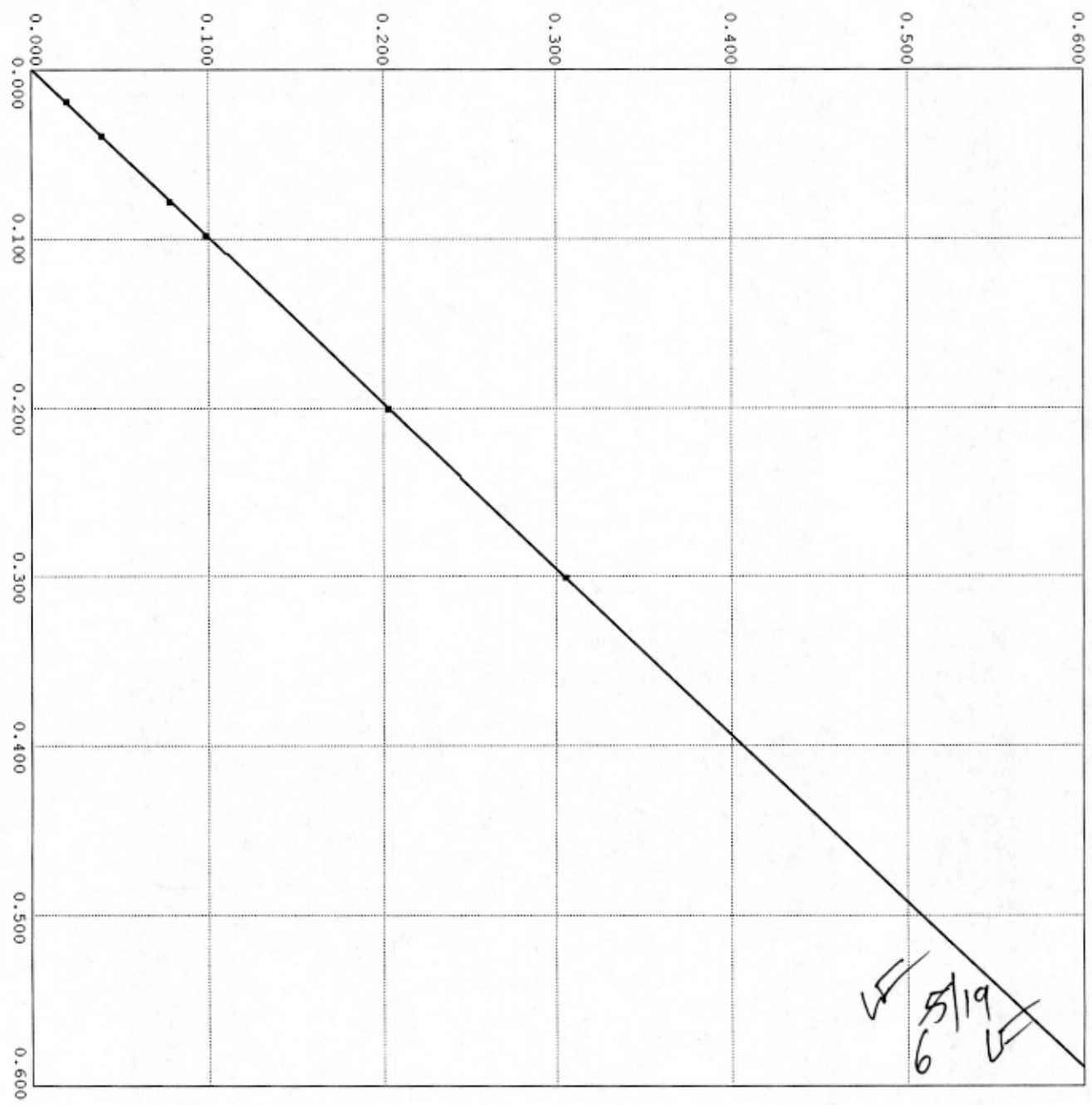
Alaska Department of Public Safety
DATAMASTER dmt: 100698

Date: 09/12/2012
Time: 13:06:11

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0206	0.0002
0.039	0.0405	0.0003
0.078	0.0789	0.0002
0.098	0.0997	0.0004
0.200	0.2036	0.0002
0.300	0.3062	0.0004

SLOPE = 1.017633
R² = 0.999964



LINEARITY CHECK: Control Test 1

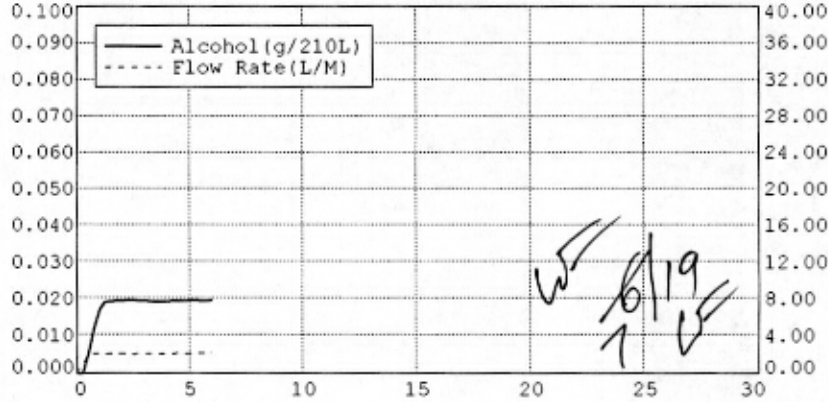
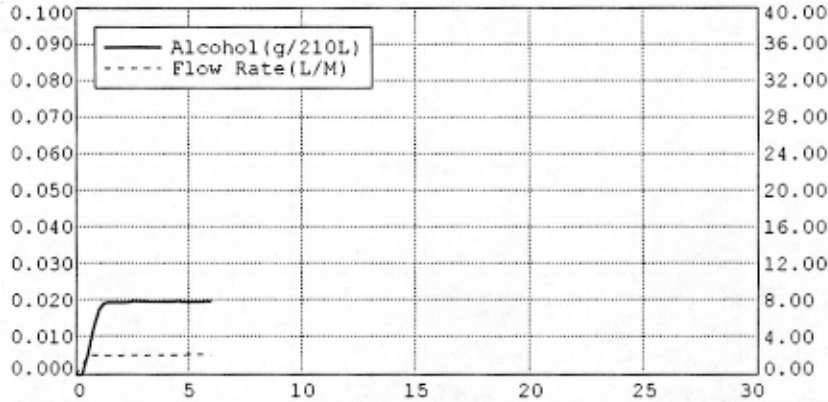
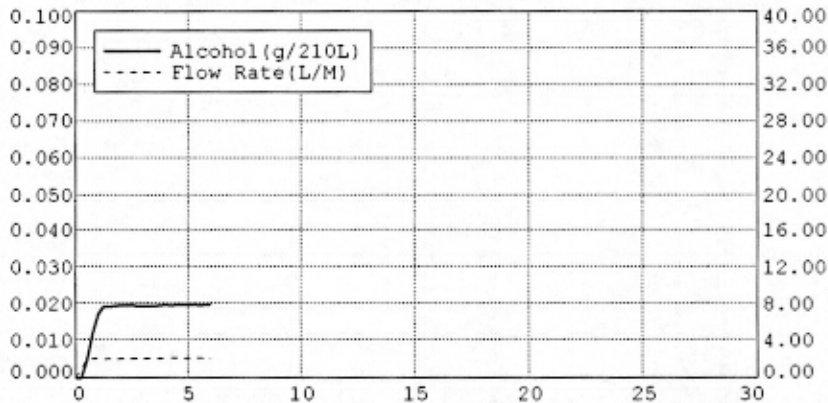
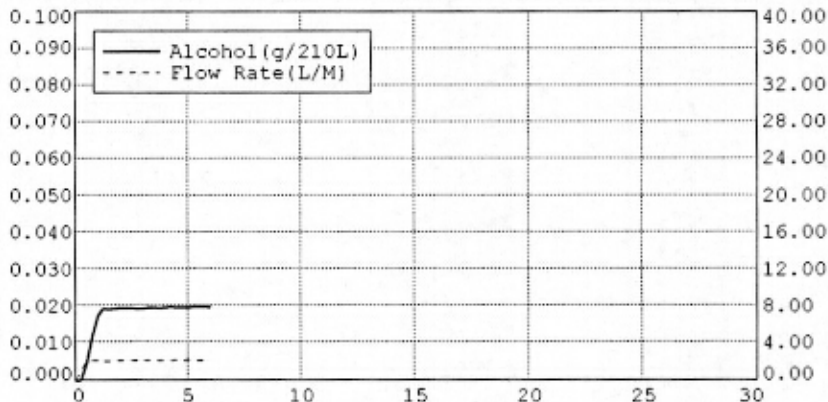
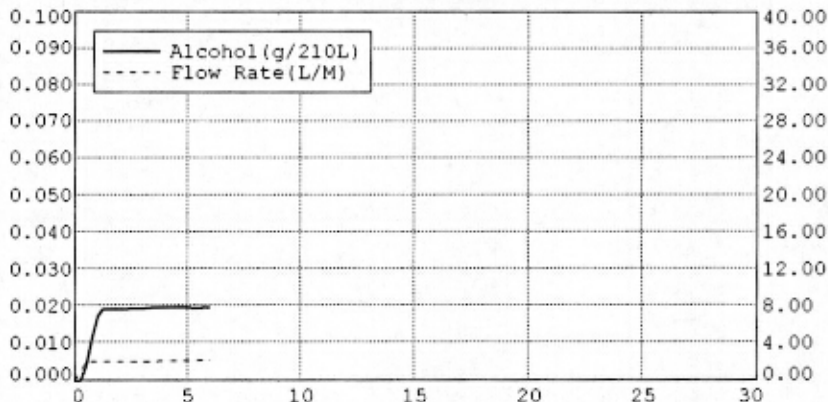
Alaska Department of Public Safety
 DATAMASTER dmt: 100698

Date: 09/12/2012
 Time: 13:06:12

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

BLANK TEST	0.000	13:07
INTERNAL STANDARD	VERIFIED	13:07
EXTERNAL STANDARD	0.020	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.020	13:09
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.020	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.020	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.020	13:12
BLANK TEST	0.000	13:13

Average = 0.0206
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

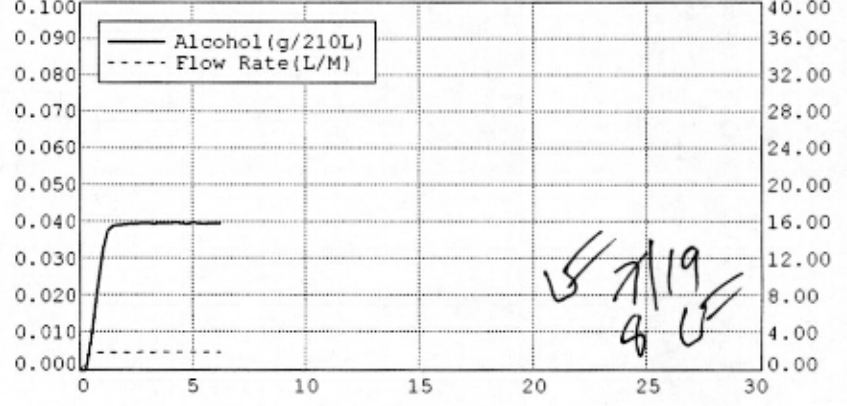
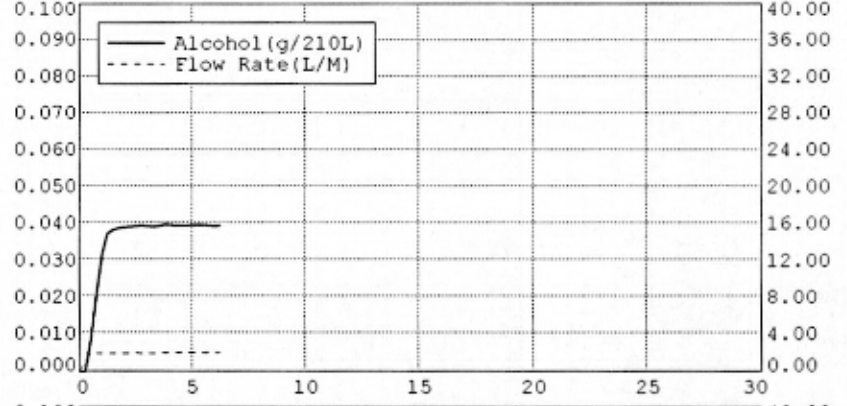
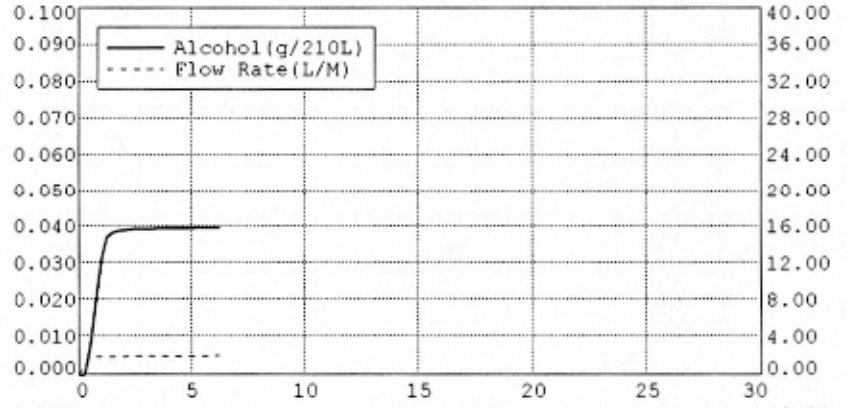
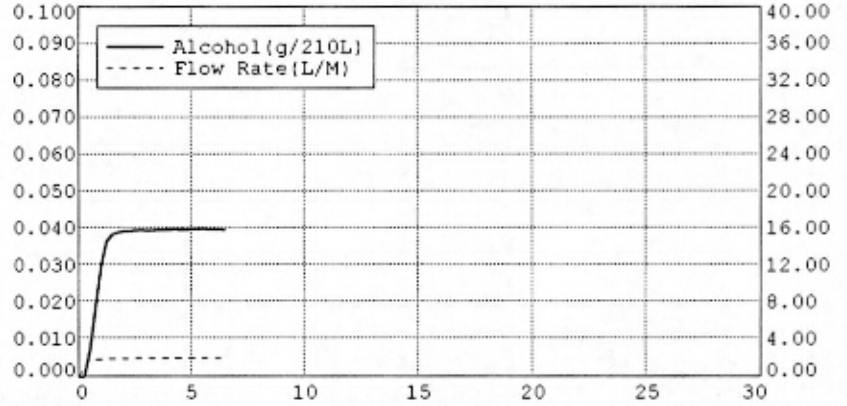
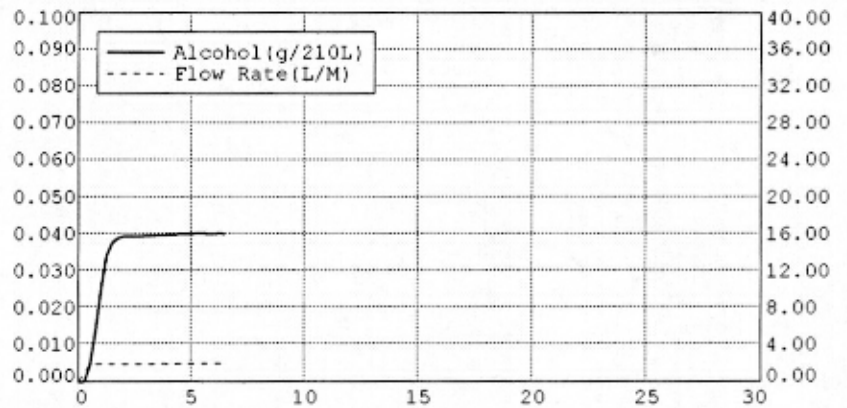
Alaska Department of Public Safety
 DATAMASTER dmt: 100698

Date: 09/12/2012
 Time: 13:13:44

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

BLANK TEST	0.000	13:14
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.041	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.040	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.040	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.040	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.040	13:19
BLANK TEST	0.000	13:20

Average = 0.0405
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100698

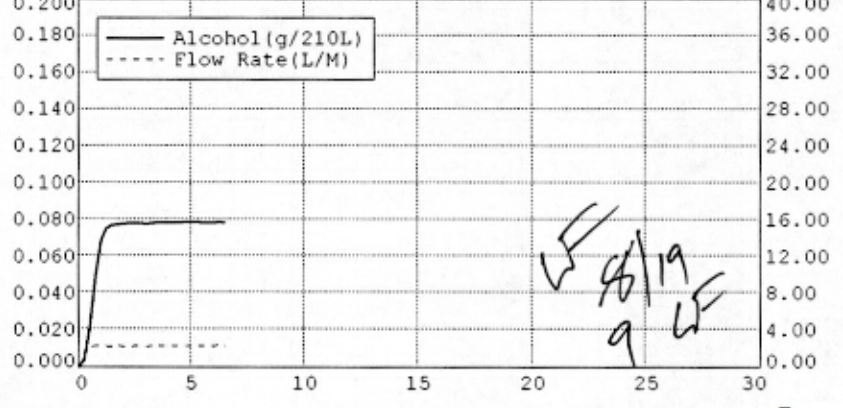
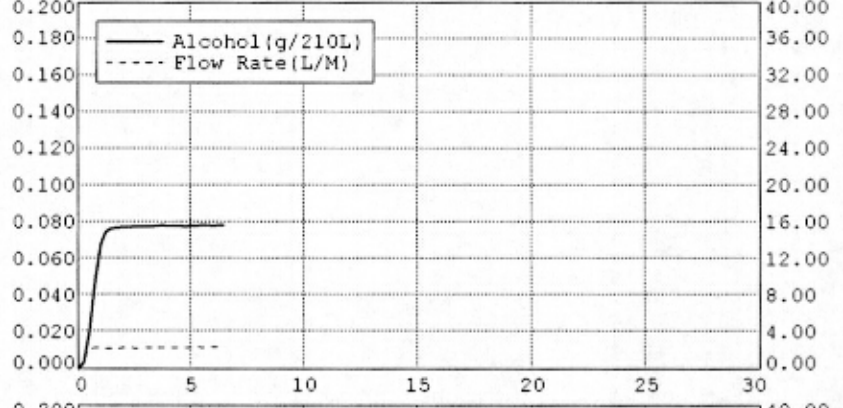
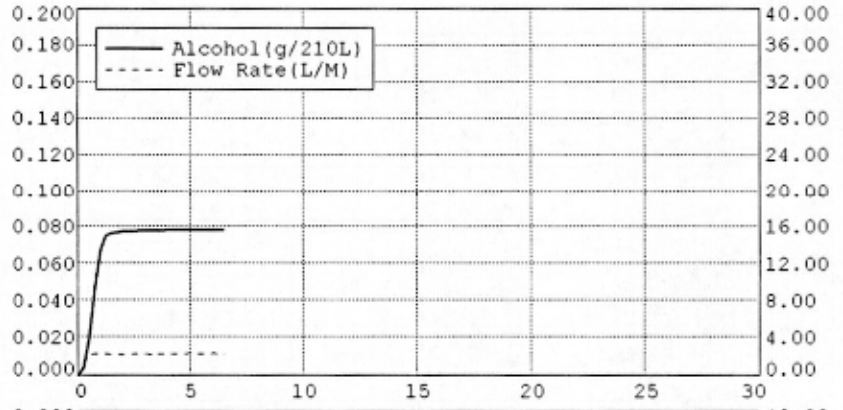
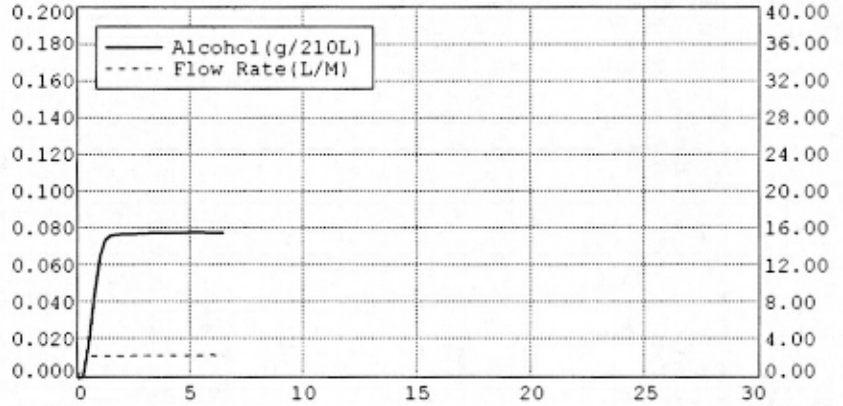
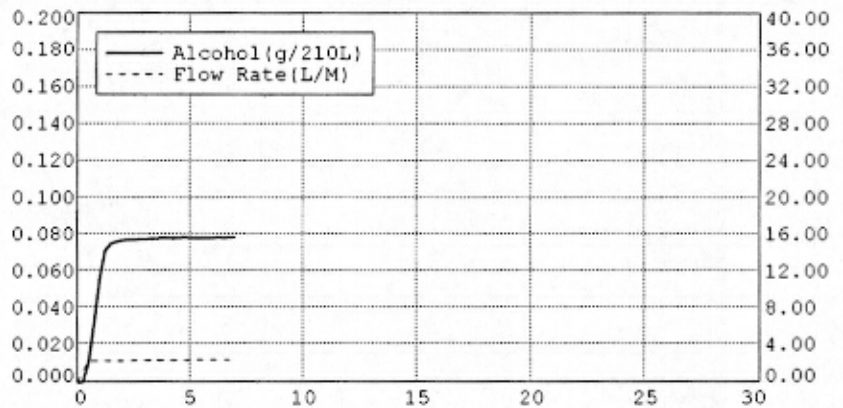
Date: 09/12/2012
 Time: 13:21:23

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:22
INTERNAL STANDARD	VERIFIED	13:22
EXTERNAL STANDARD	0.078	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.078	13:24
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.079	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.078	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.079	13:27
BLANK TEST	0.000	13:28

Average = 0.0789
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

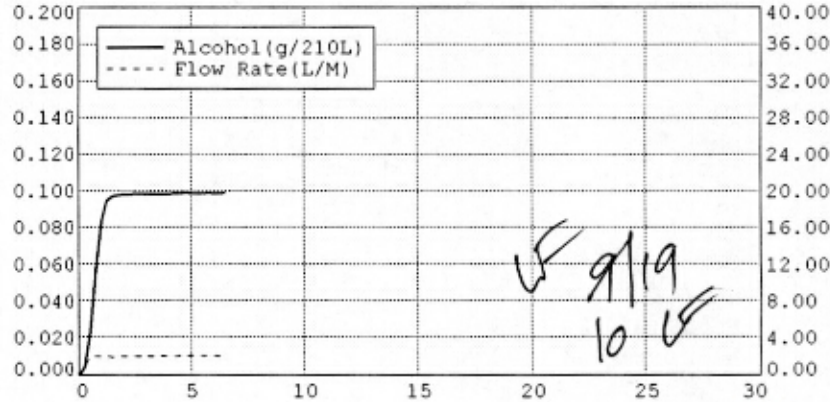
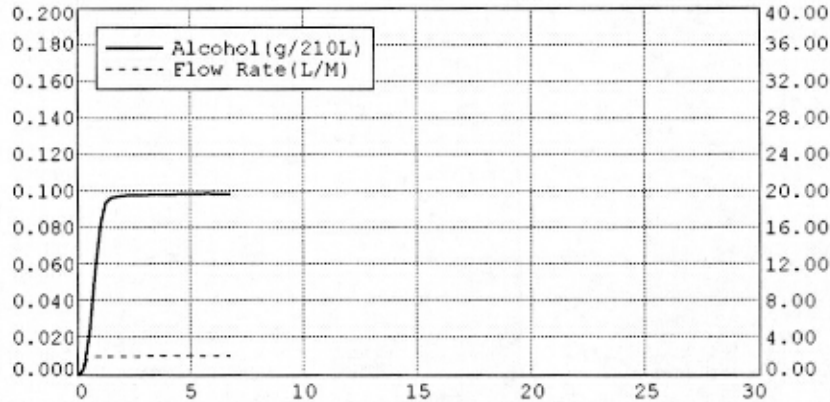
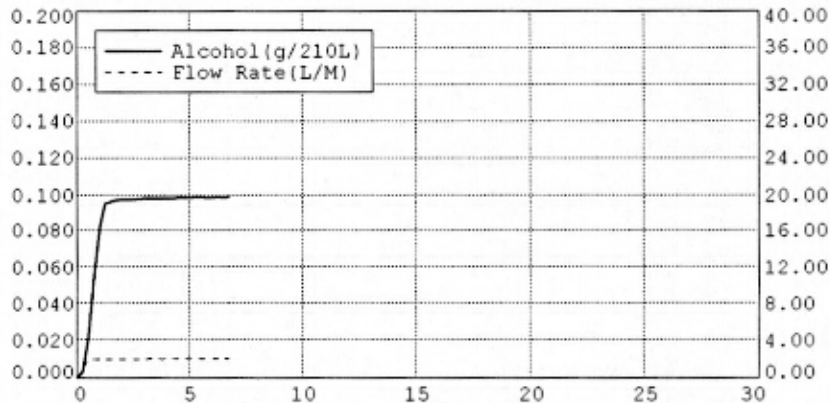
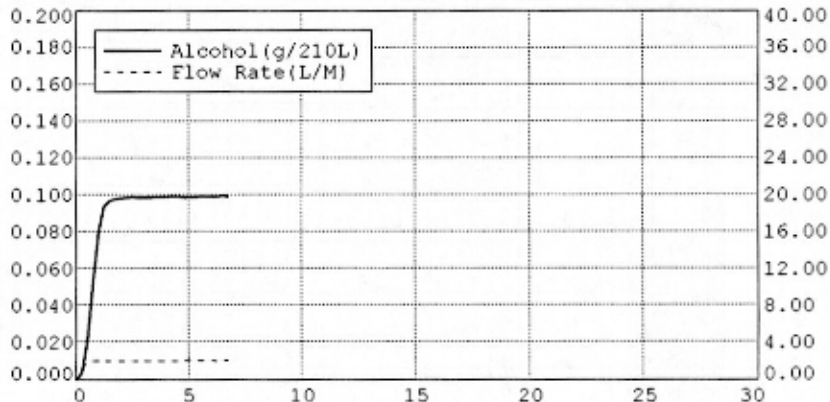
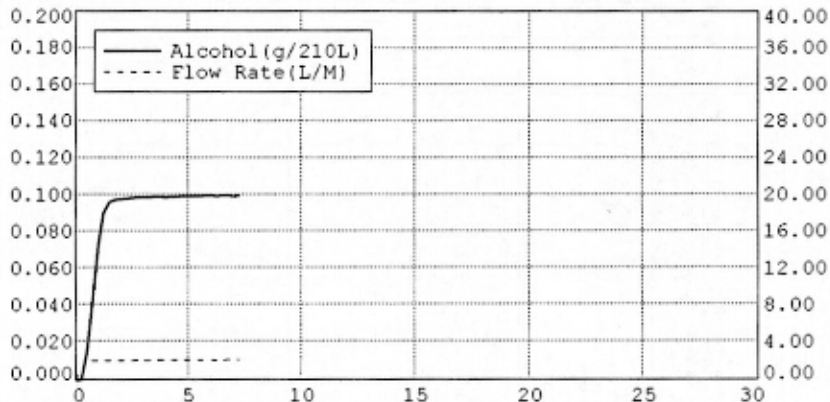
Alaska Department of Public Safety
 DATAMASTER dmt: 100698

Date: 09/12/2012
 Time: 13:29:12

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

BLANK TEST	0.000	13:30
INTERNAL STANDARD	VERIFIED	13:30
EXTERNAL STANDARD	0.100	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.099	13:32
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.099	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.099	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.099	13:35
BLANK TEST	0.000	13:36

Average = 0.0997
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100698

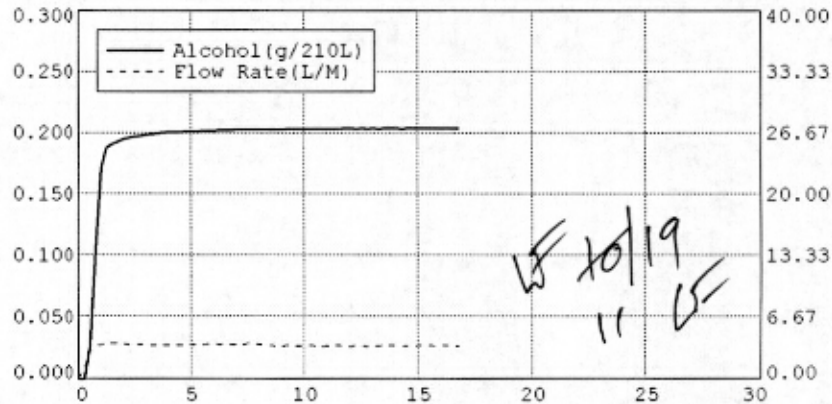
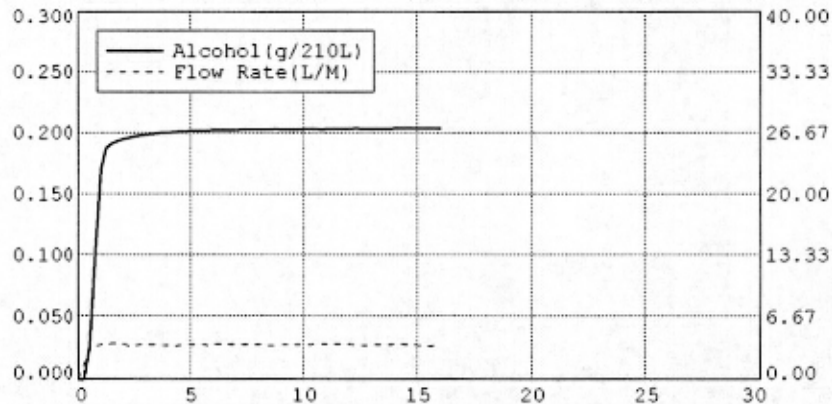
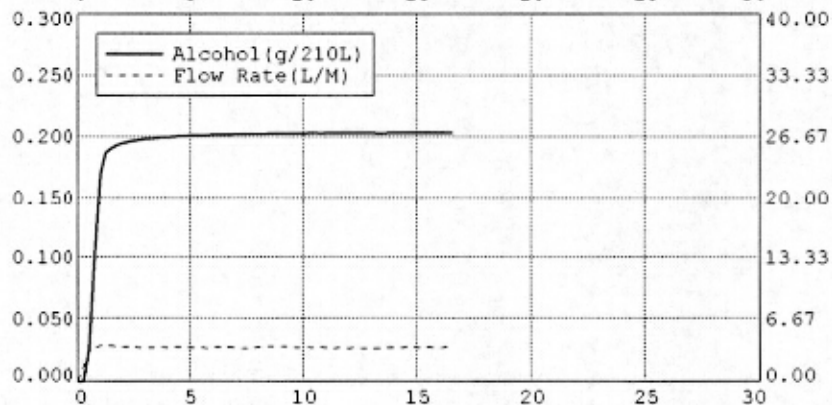
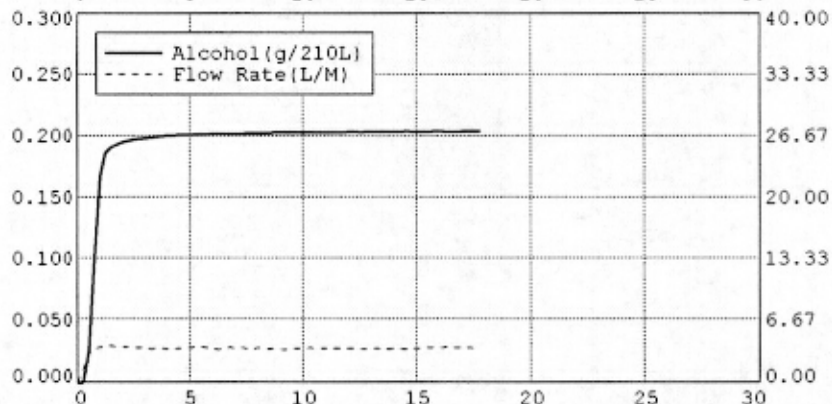
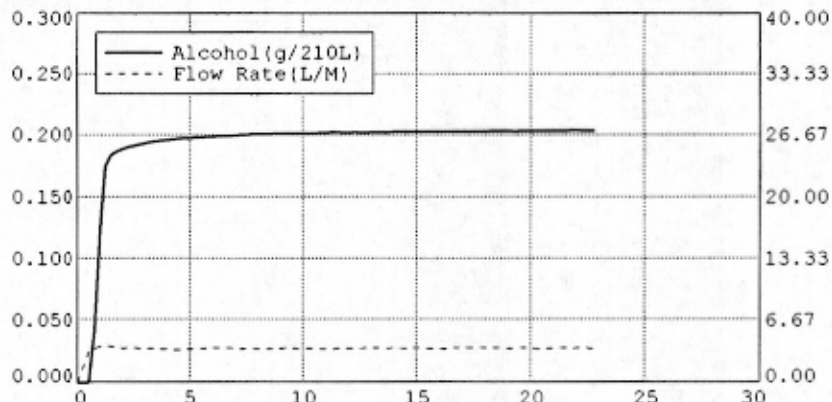
Date: 09/12/2012
 Time: 13:38:25

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:39
INTERNAL STANDARD	VERIFIED	13:40
EXTERNAL STANDARD	0.203	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.203	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.203	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.203	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.203	13:45
BLANK TEST	0.000	13:46

Average = 0.2036
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

 Alaska Department of Public Safety
 DATAMASTER dmt: 100698

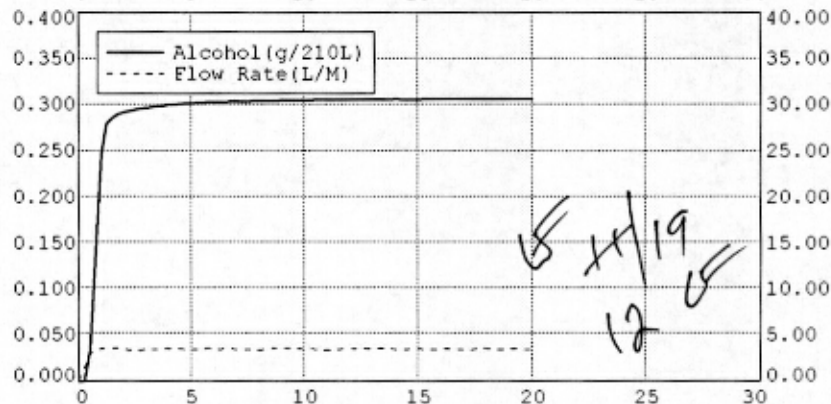
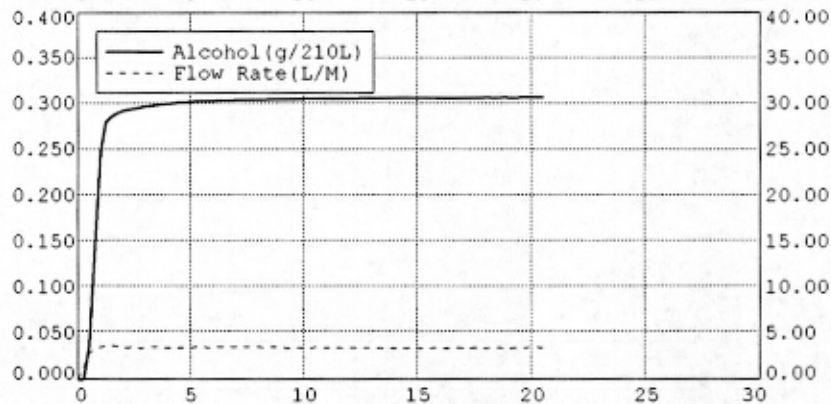
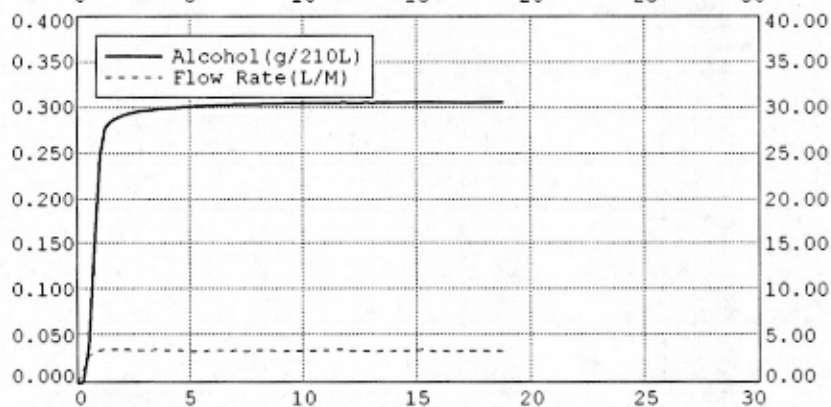
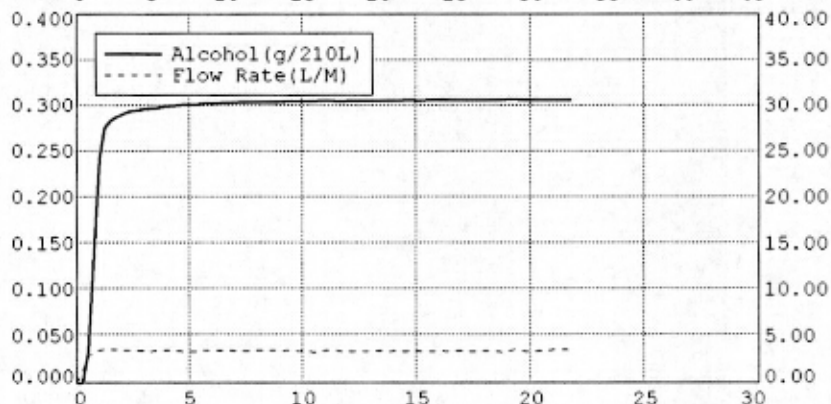
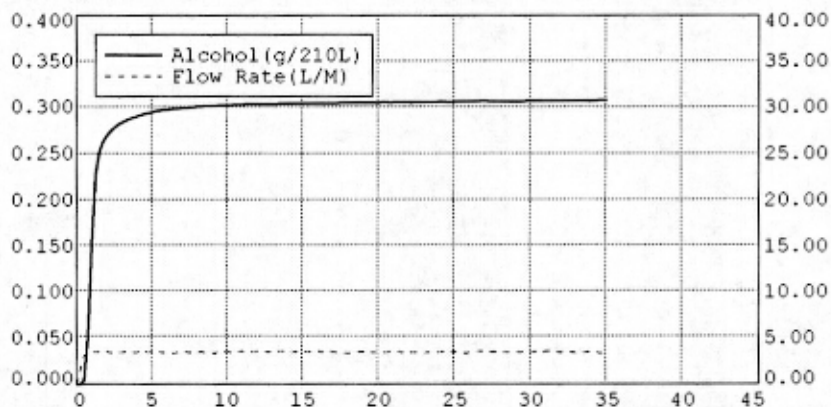
Date: 09/12/2012
 Time: 13:48:20

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:49
INTERNAL STANDARD	VERIFIED	13:49
EXTERNAL STANDARD	0.306	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.306	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.305	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.306	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.306	13:55
BLANK TEST	0.000	13:56

Average = 0.3062
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100698

Date: 09/12/2012
Time: 14:27:35

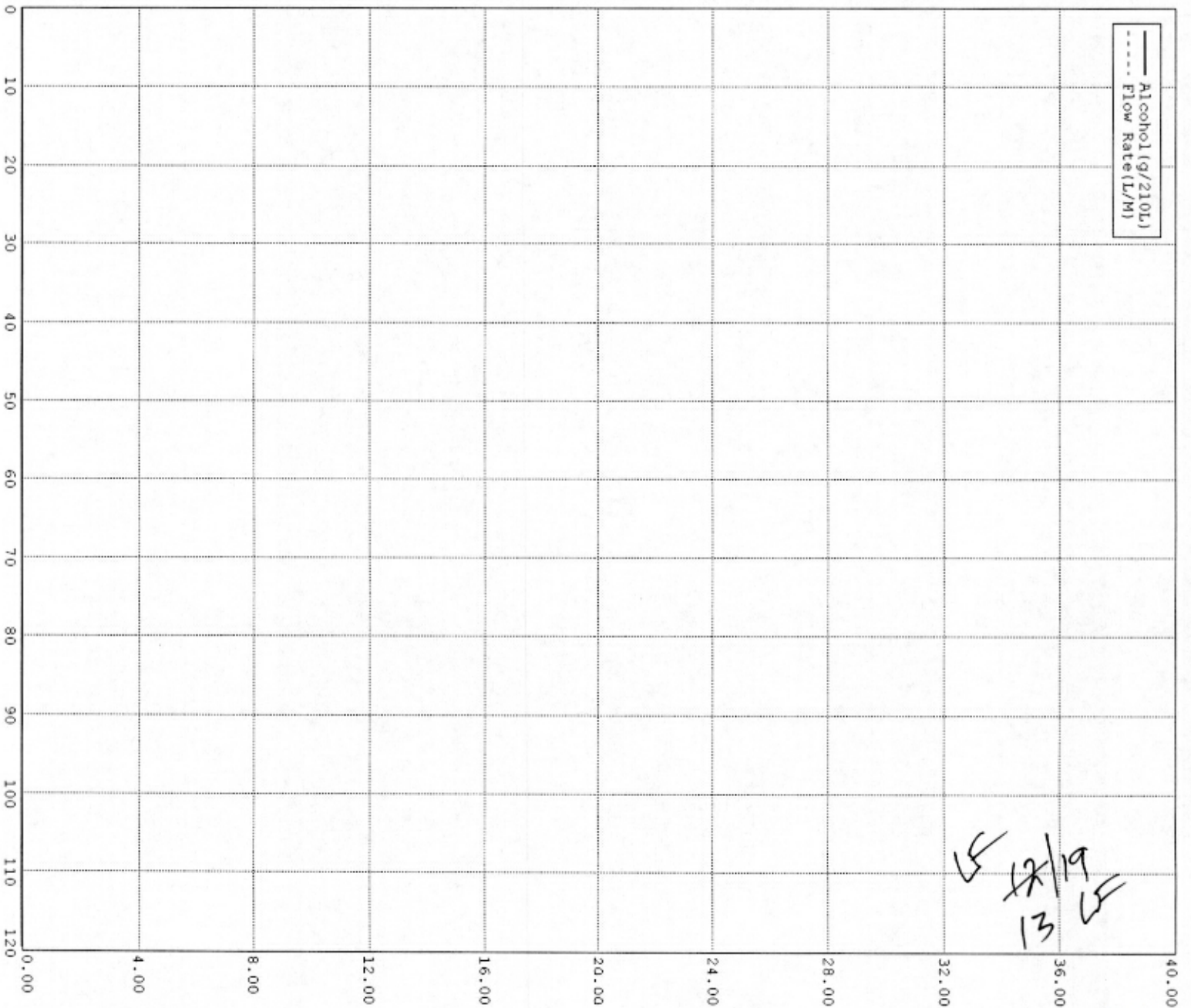
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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	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 dmt: 100698

Date: 09/12/2012
Time: 14:43:21

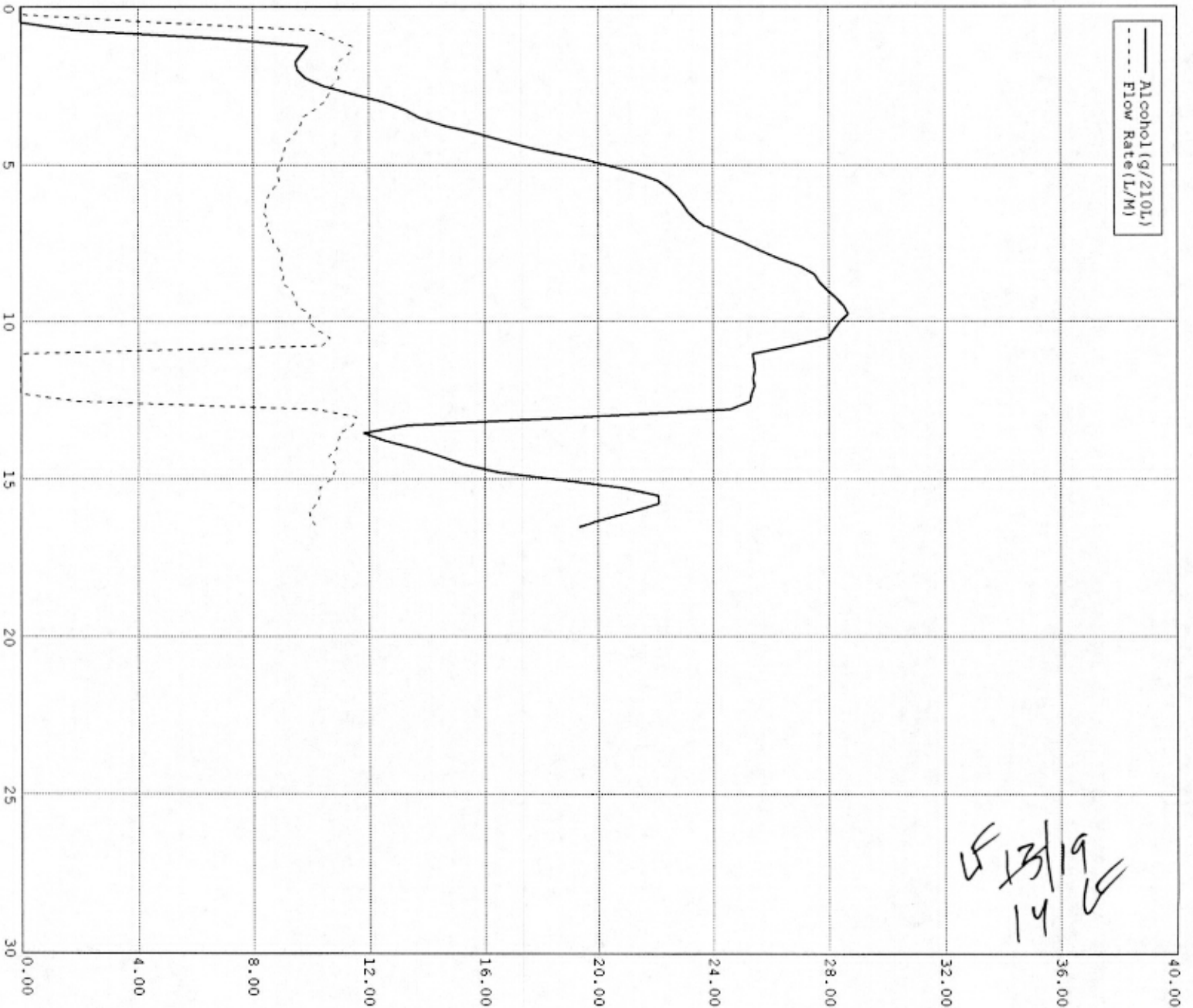
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100698

Date: 09/13/2012
Time: 08:22:32

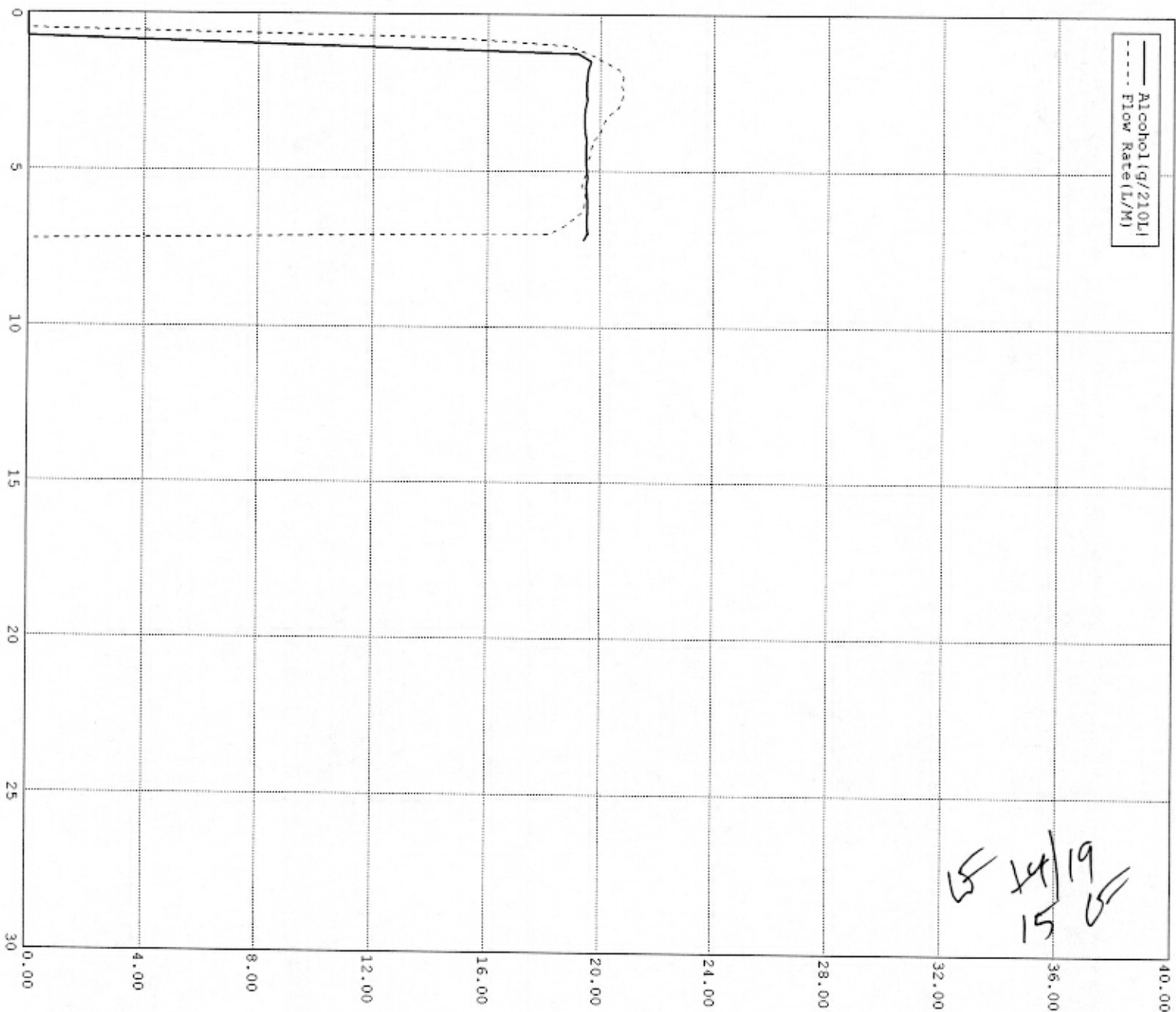
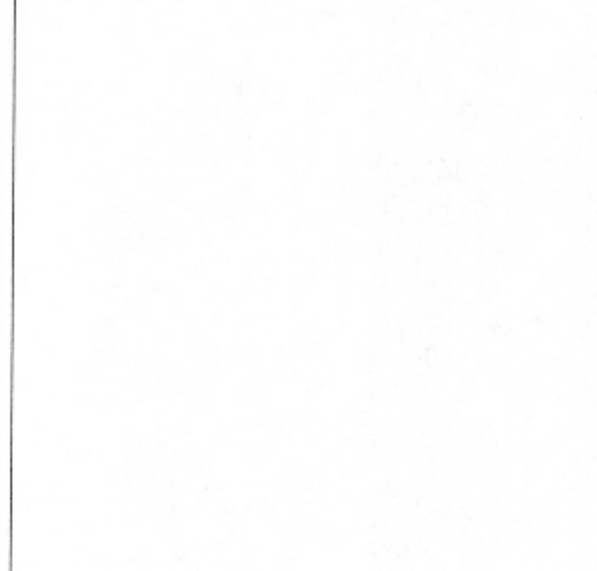
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 08:25
BLANK TEST 0.000 08:25
INTERNAL STANDARD VERIFIED 08:25
Xq = 0.115 (0.31%)
EXTERNAL STANDARD 0.080 08:25
X[1] = 0.0802 (0.0010) (0.0019)
BLANK TEST 0.000 08:26
SUBJECT SAMPLE INTERFERENCE 08:27
X[1] = 0.0975 (-0.0133) (-0.0015)



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100698

Date: 09/13/2012
Time: 08:30:53

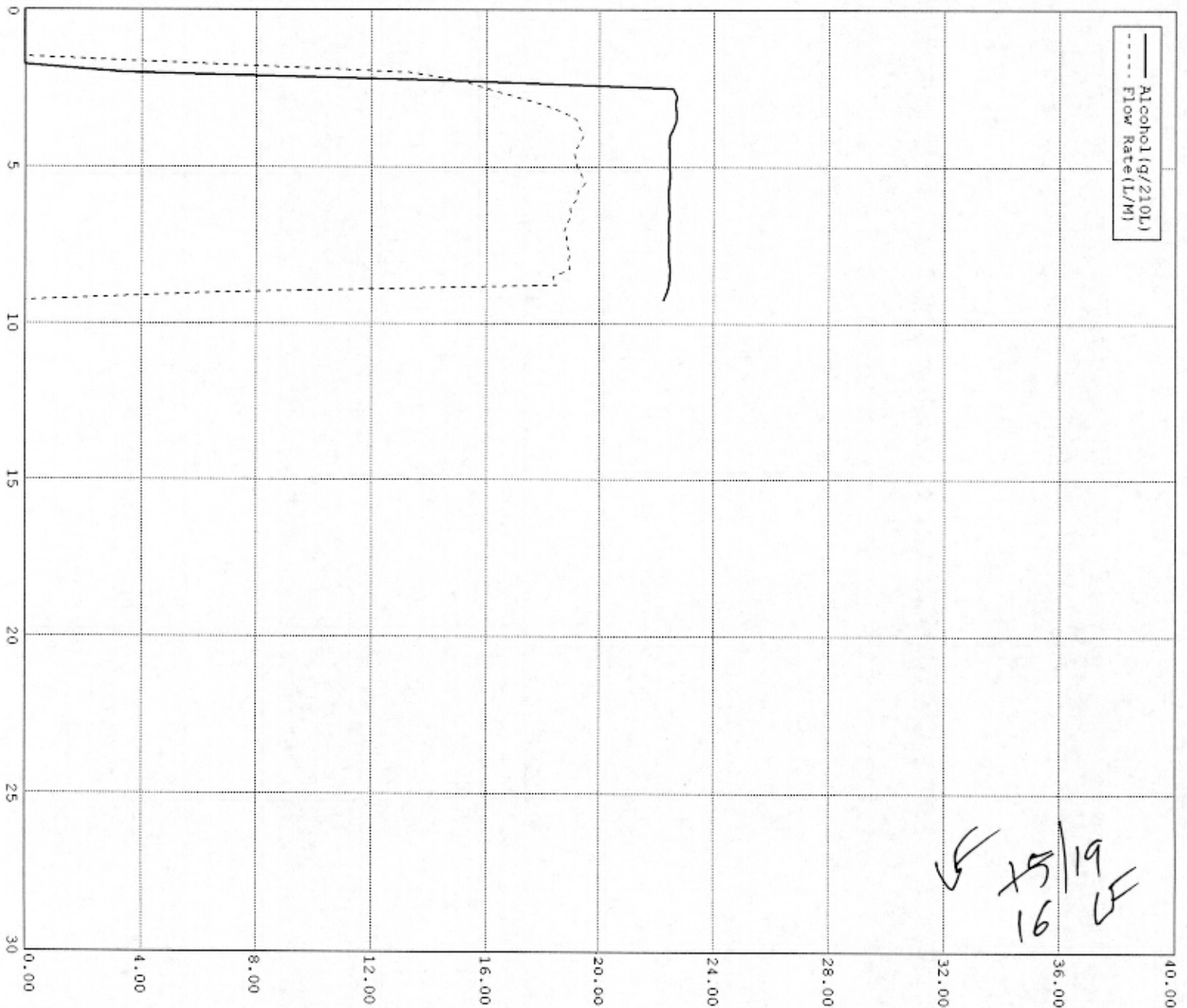
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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	08:33
BLANK TEST	0.000	08:33
INTERNAL STANDARD	VERIFIED	08:33
Xq = 0.115 (0.54%)		
EXTERNAL STANDARD	0.079	08:34
X[1] = 0.0798 (0.0002)	(0.0015)	
BLANK TEST	0.000	08:35
SUBJECT SAMPLE	INTERFERENCE	08:35
X[1] = 0.1117 (-0.0237)	(0.0008)	



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100698

Date: 09/13/2012
 Time: 08:38:41

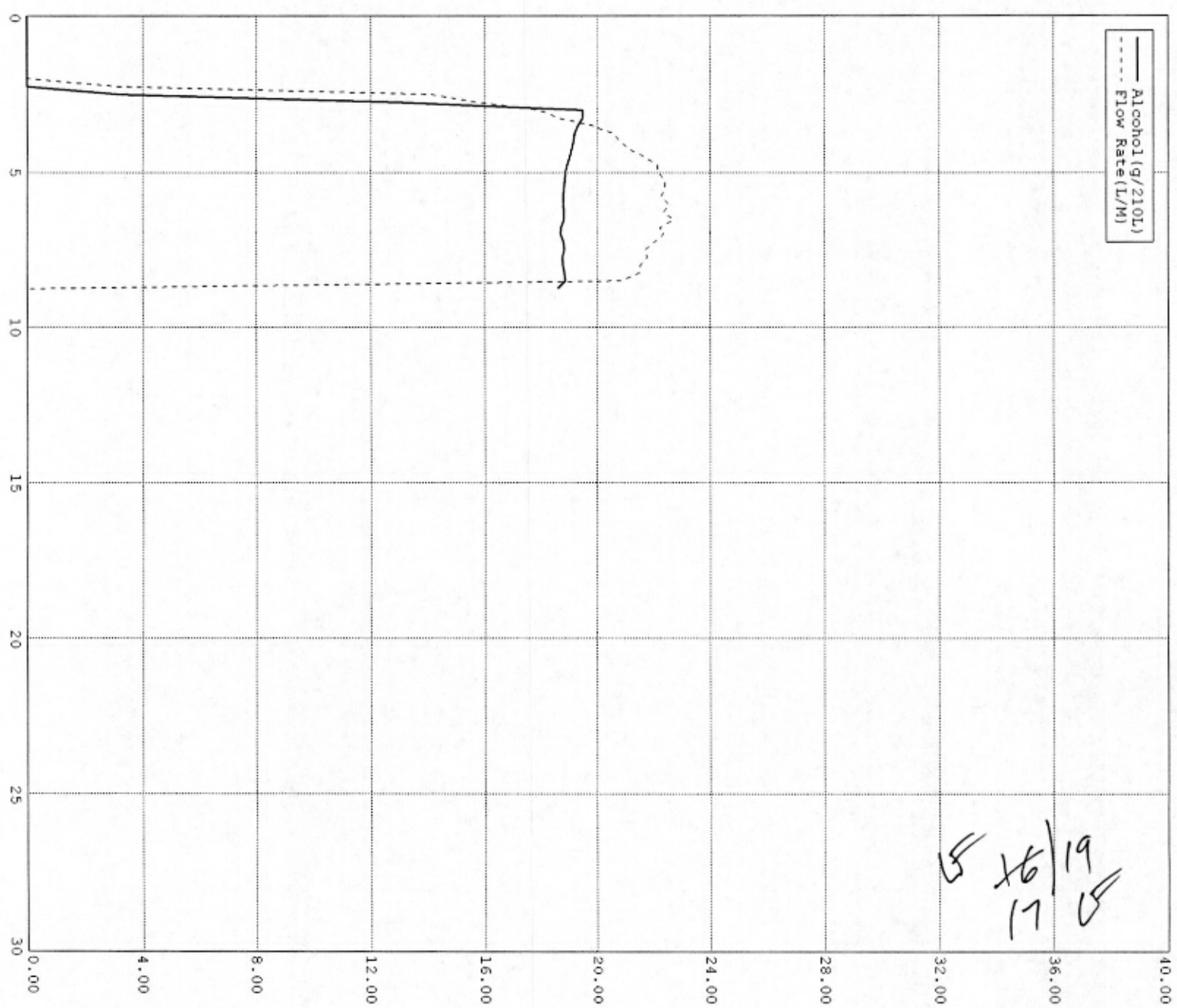
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

DIAGNOSTIC CHECK	PASSED	08:48
BLANK TEST	0.000	08:48
INTERNAL STANDARD	VERIFIED	08:48
Xq = 0.115 (0.088)		
EXTERNAL STANDARD	0.080	08:49
X[1] = 0.0805 (0.0012)	(0.0019)	
BLANK TEST	0.000	08:50
SUBJECT SAMPLE (Vol=2.20L)	0.093	08:50
X[1] = 0.0935 (-0.0004)	(-0.0008)	
BLANK TEST	0.000	08:51
EXTERNAL STANDARD	0.079	08:51
X[1] = 0.0797 (0.0003)	(0.0015)	
BLANK TEST	0.000	08:52



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100698

Date: 09/12/2012
 Time: 14:50:42

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

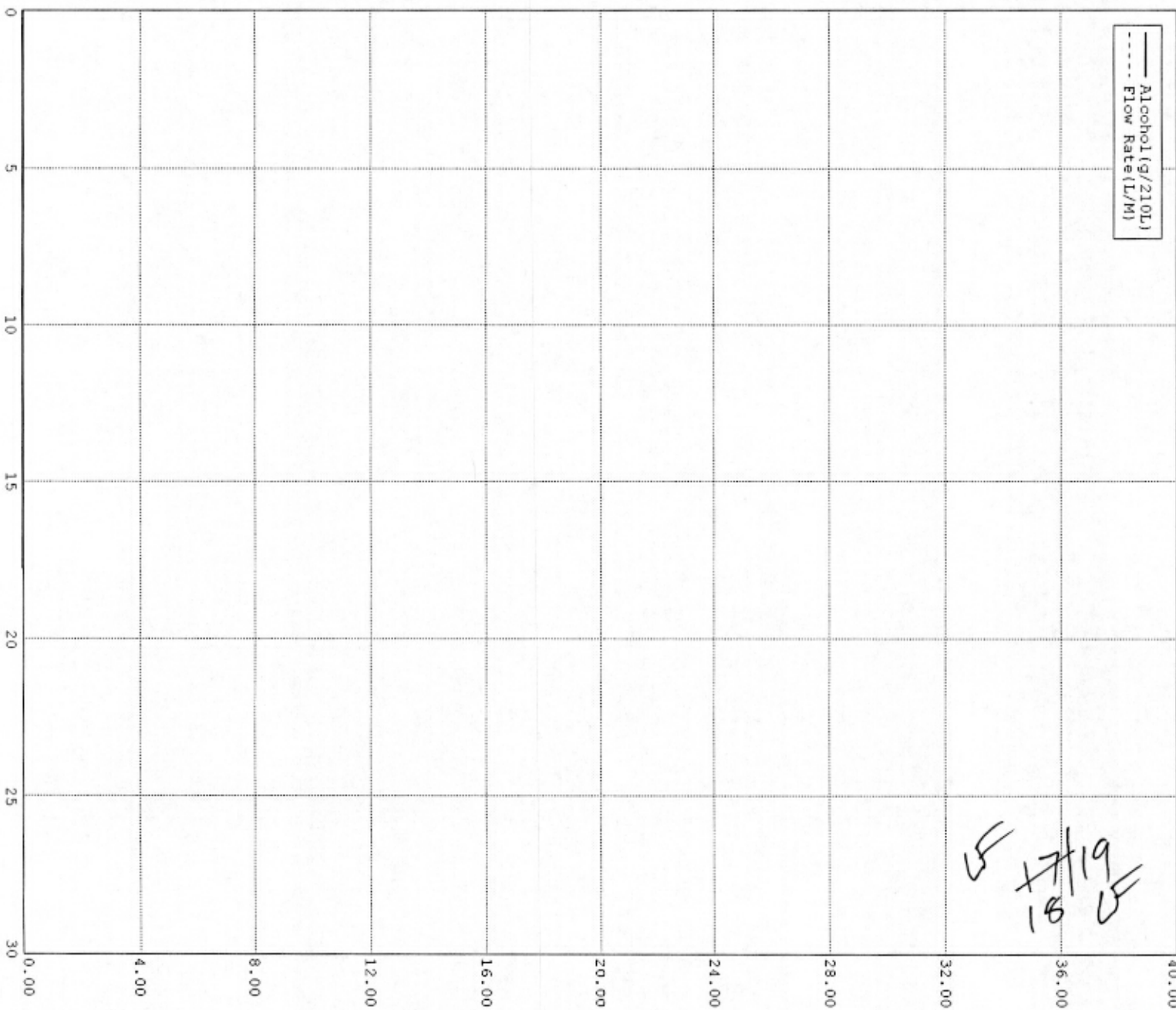
OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.51: 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	0.079	14:52
BLANK TEST	0.000	14:53

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100698

Date: 09/13/2012
Time: 09:25:30

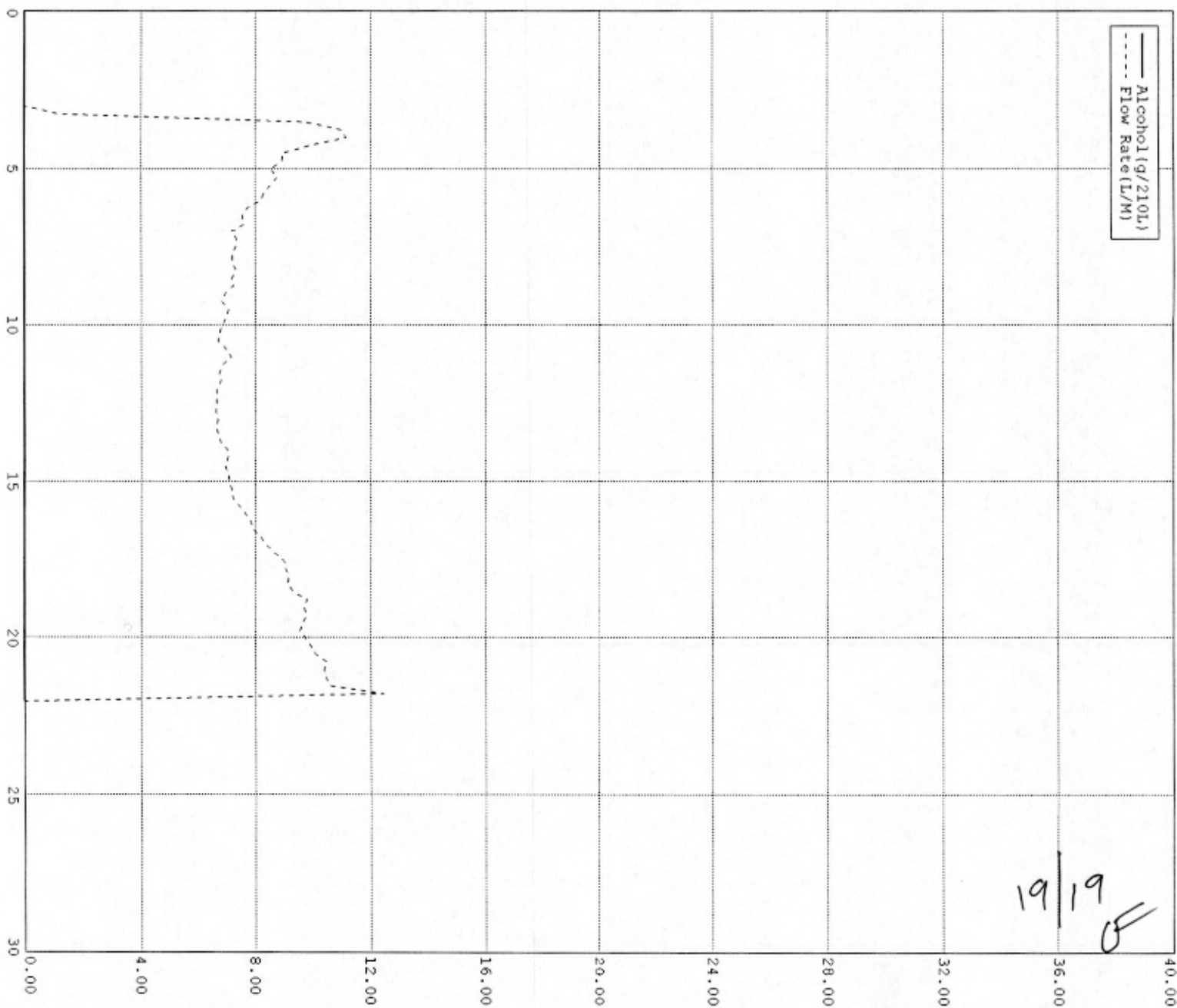
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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	09:28
BLANK TEST	0.000	09:28
INTERNAL STANDARD	VERIFIED	09:28
EXTERNAL STANDARD	0.079	09:28
BLANK TEST	0.000	09:29
SUBJECT SAMPLE	0.000	09:30
BLANK TEST	0.000	09:30
EXTERNAL STANDARD	0.080	09:31
BLANK TEST	0.000	09:32



Final page for report

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2/13/2014