

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100342 Analyst CTF Start Date 1/8/13
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 11120 Exp 7/19/13

1. Simulator S/N DR4162 Date Calibrated 10/9/12

vi. 0.300g/210L Mnf Guth Lot 12050 Exp 3/21/14

1. Simulator S/N DR4178 Date Calibrated 2/21/12

5. Functional Tests (attached)

a. Incomplete ☒

b. Invalid ☒

c. Interference ☒

i. Acetone - Mnf Guth Lot 11100 Level 0.10 Exp 7/6/13

1. Simulator S/N DRS298 Date Calibrated 10/8/12

ii. Isopropanol - Mnf Guth Lot 11250 Level 0.10 Exp 12/6/13

1. Simulator S/N SD1202 Date Calibrated 10/9/12

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N SD1176 Date Calibrated 10/9/12

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 ☒

End Date 1/9/13

All printed copies are uncontrolled.

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 01/08/2013
Time: 12:28:07

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 43.8°C	PASSED

PUMP INFO

Flow Rate = 4.495 L/M	PASSED
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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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2/19
LF

Technician Screen

DATAMASTER dmt: 100342

Date: 01/08/2013

Time: 10:39 AM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 42.7°C

Current Barometer 29.4 in

Volume (Ltr) 1.52

Settings

Lamp: 1.73 V

Bias: 80 V

Cooler: 1.74 V

Chopper: 524 Hz

Voltages (V)

Flow: 1.02 V

Detector: 0.023 V

3/19
WF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 06/24/2011
Time: 09:44:57

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: REPC0100
BOTTLE #: 10003
EXPIRATION: 09/08/2012

Ca = 0.1000
CAL = 0.963640 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0062 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0913 0.0500 <= Xq < 0.2000
a21 = 1.160994 1.050 <= a21 < 1.300
a31 = 0.474325 0.300 <= a31 < 0.800

4/19
WF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100342

Date: 01/08/2013
 Time: 12:49:26

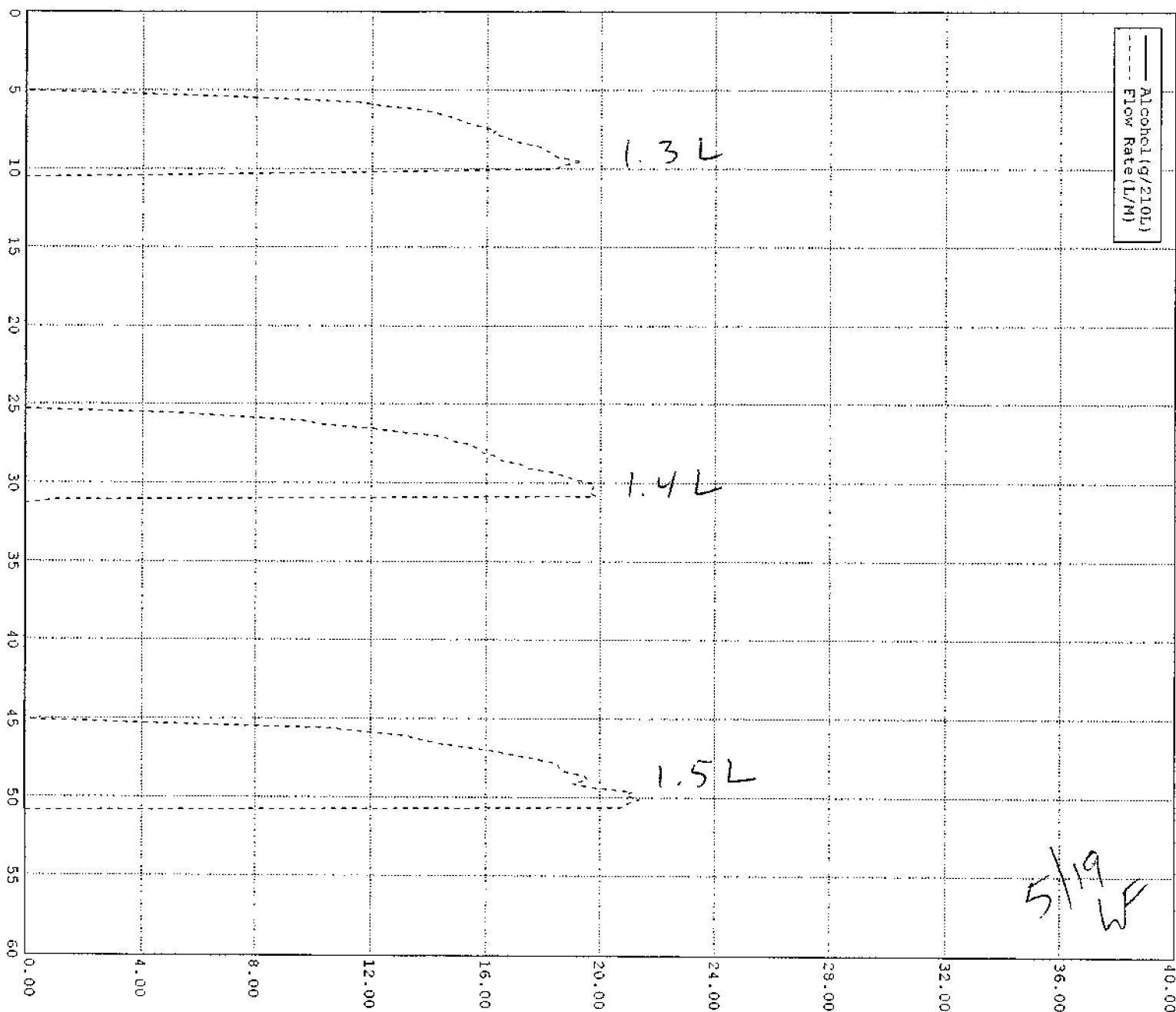
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.45: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	12:50
BLANK TEST	0.000	12:50
INTERNAL STANDARD	0.077	12:50
EXTERNAL STANDARD	0.000	12:51
BLANK TEST	0.000	12:52
SUBJECT SAMPLE	0.000	12:53
BLANK TEST	0.077	12:53
EXTERNAL STANDARD	0.000	12:54
BLANK TEST	0.000	12:54



LINEARITY CHECK

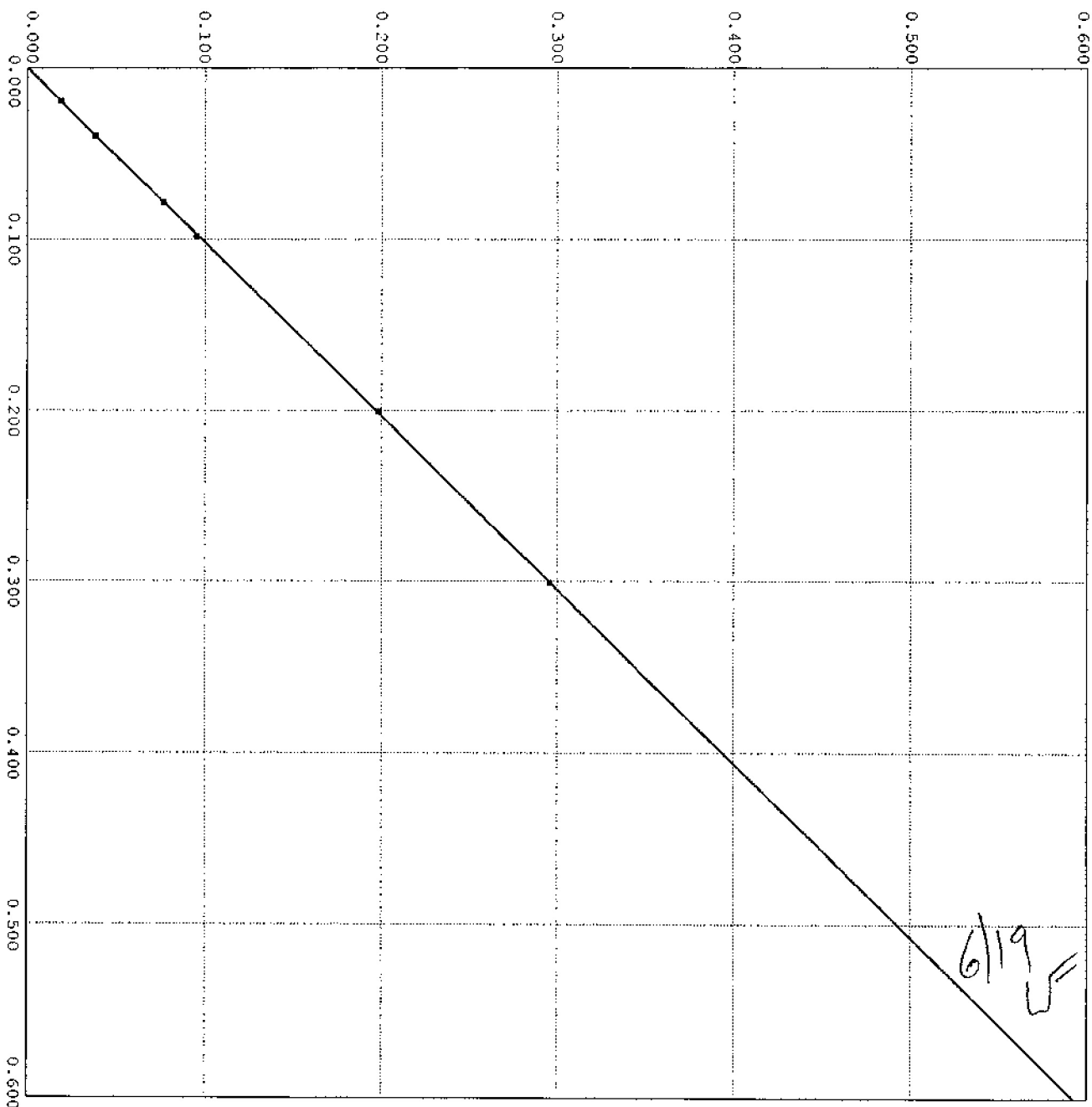
Alaska Department of Public Safety
 DATAMASTER dmt: 100342

Date: 01/08/2013
 Time: 13:58:37

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0199	0.0003
0.039	0.0393	0.0002
0.078	0.0774	0.0003
0.098	0.0962	0.0002
0.200	0.1989	0.0004
0.300	0.2964	0.0004

SLOPE = 0.986789
 R^2 = 0.999953



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100342

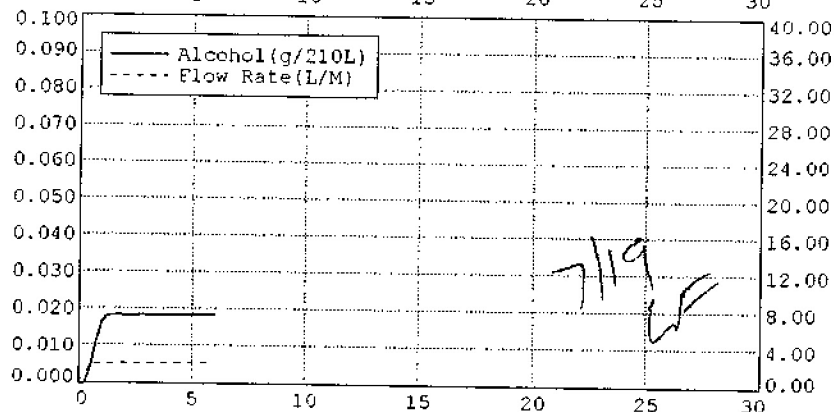
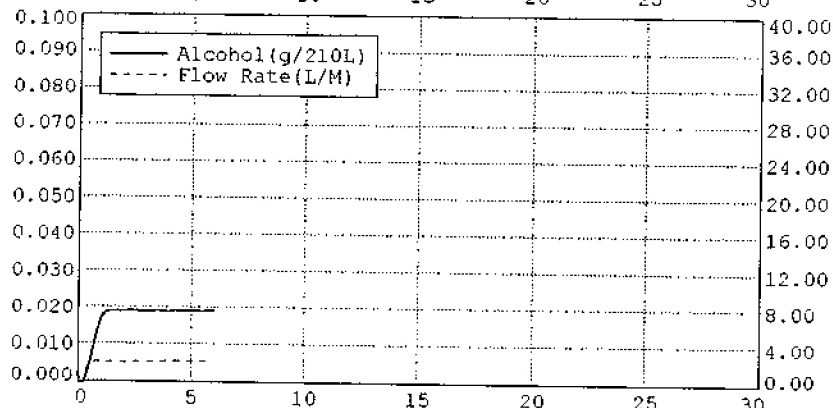
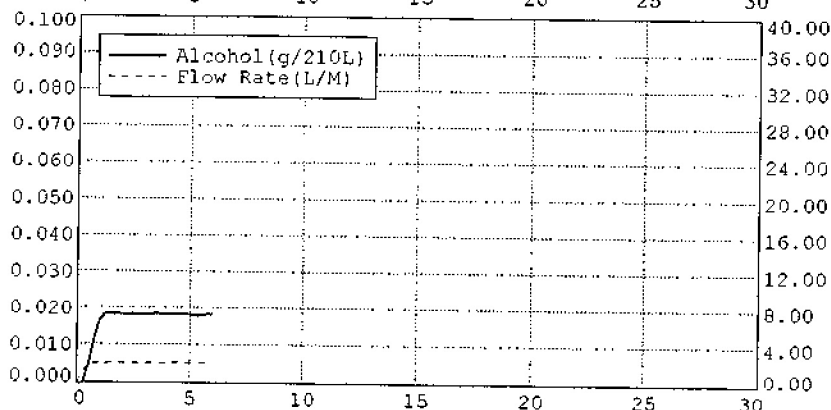
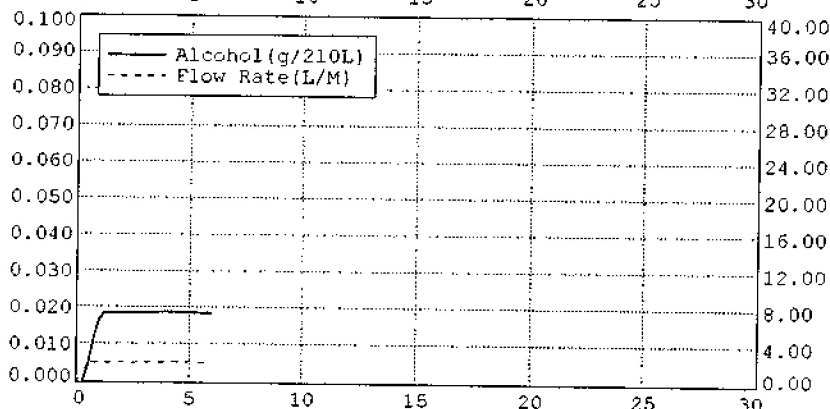
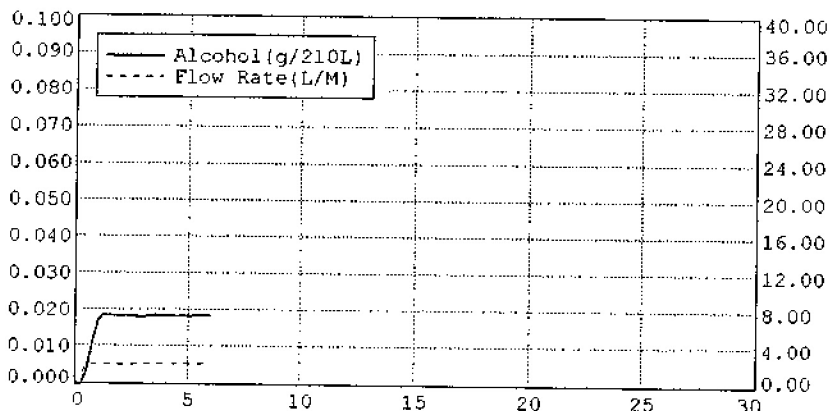
Date: 01/08/2013
Time: 13:58:38

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:00
INTERNAL STANDARD	VERIFIED	14:00
EXTERNAL STANDARD	0.019	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.019	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.019	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.020	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.019	14:04
BLANK TEST	0.000	14:05

Average = 0.0199
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

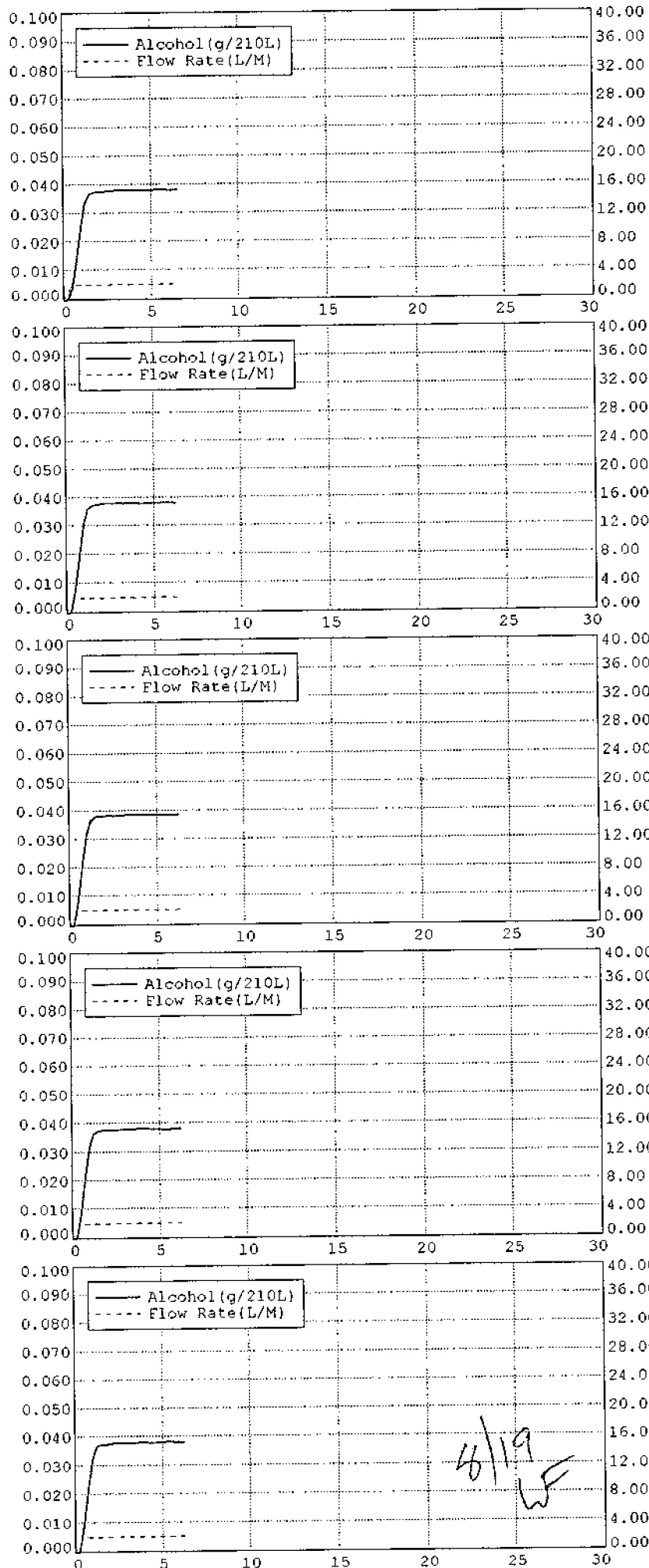
Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 01/08/2013
Time: 14:07:56

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.49: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:09
INTERNAL STANDARD	VERIFIED	14:09
EXTERNAL STANDARD	0.039	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.039	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.039	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.039	14:13
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.039	14:14
BLANK TEST	0.000	14:14

Average = 0.0393
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100342

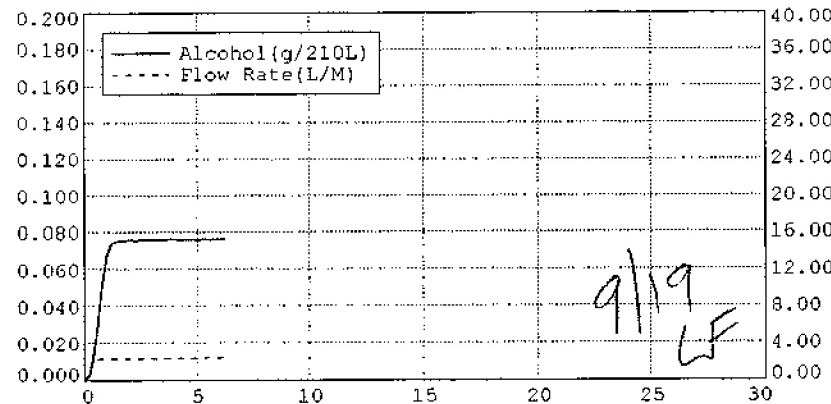
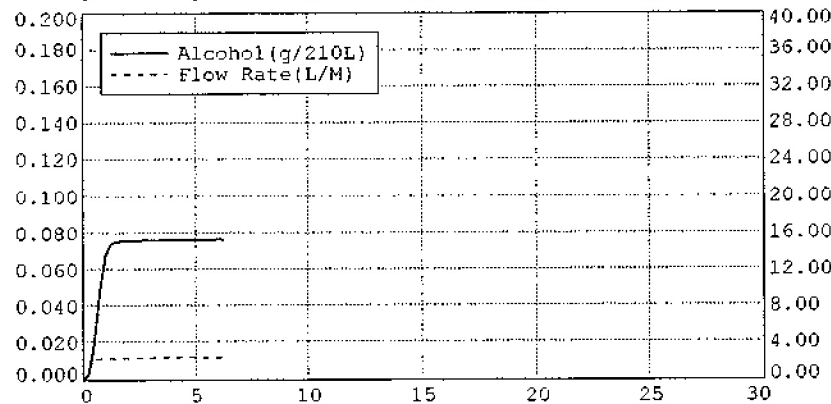
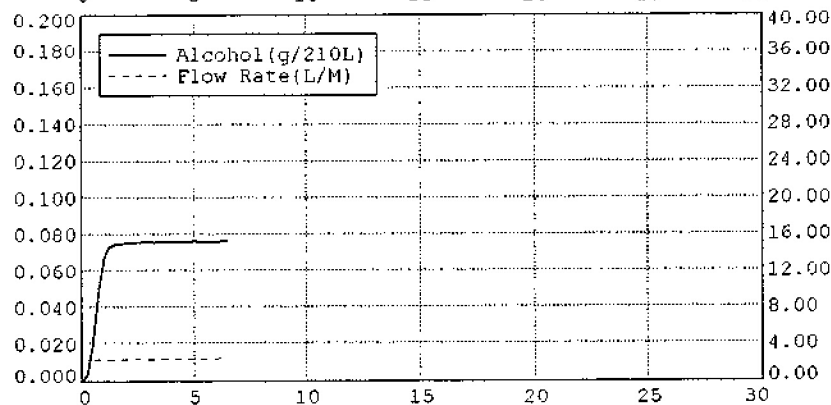
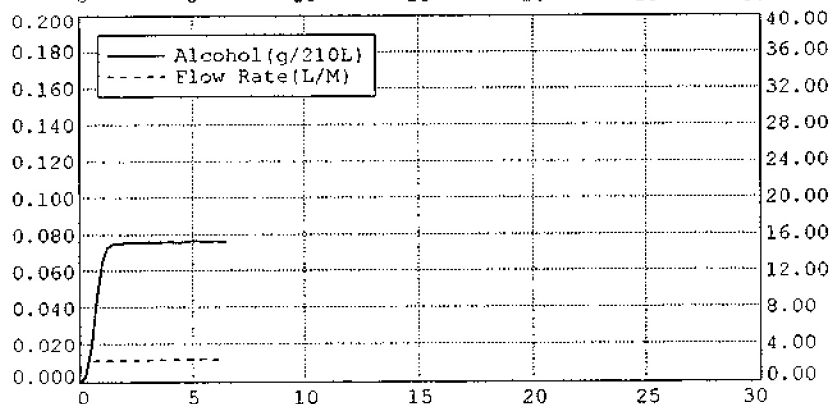
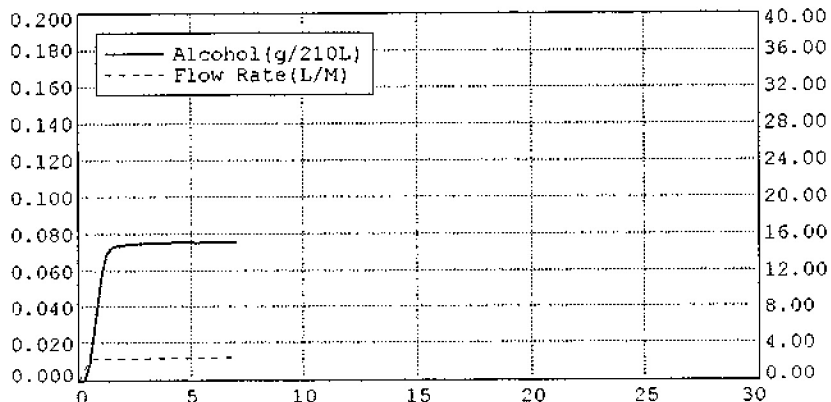
Date: 01/08/2013
Time: 14:18:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.50: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:19
EXTERNAL STANDARD	0.076	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.077	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.077	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.077	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.077	14:24
BLANK TEST	0.000	14:25

Average = 0.0774
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100342

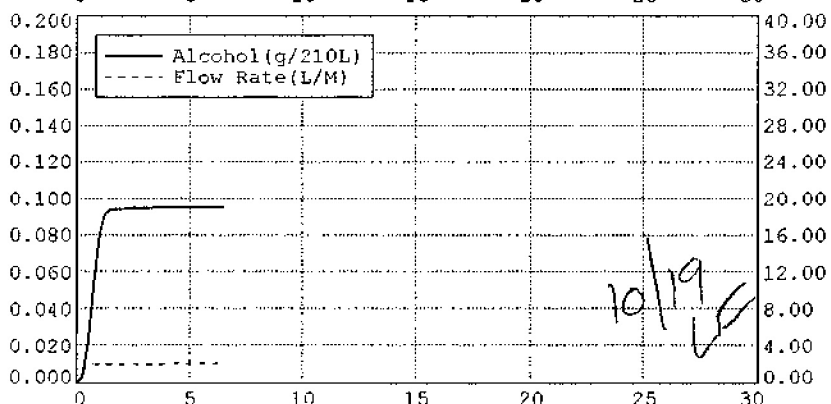
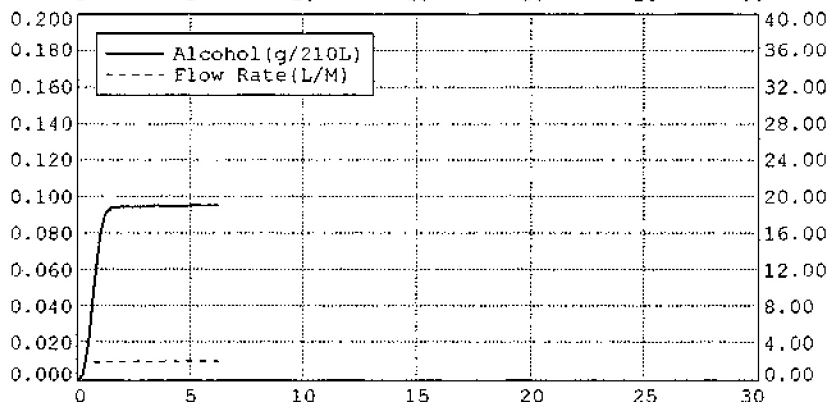
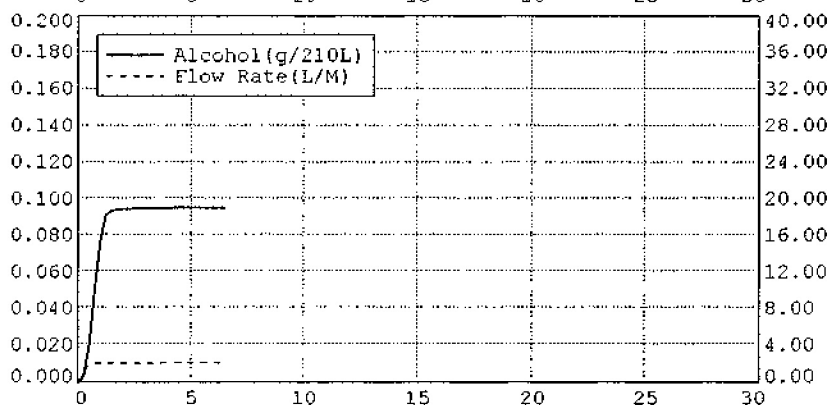
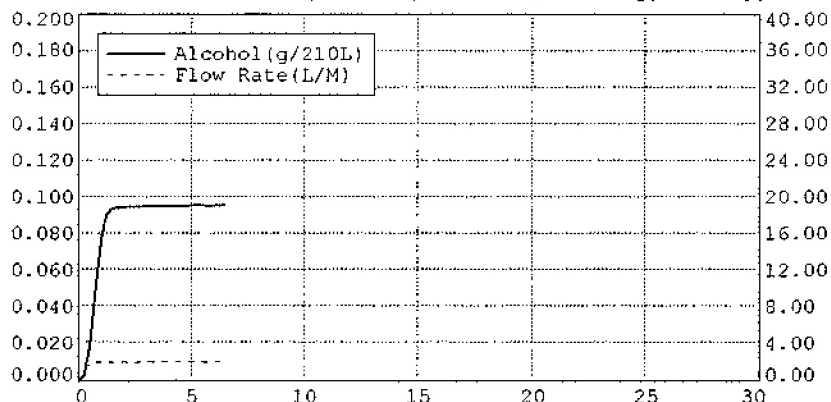
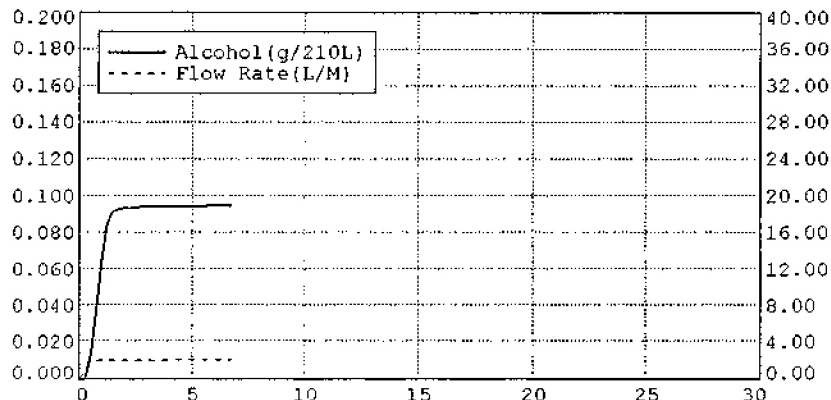
Date: 01/08/2013
Time: 14:27:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.50: 0.098
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.096	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.096	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.095	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.096	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.096	14:33
BLANK TEST	0.000	14:34

Average = 0.0962
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100342

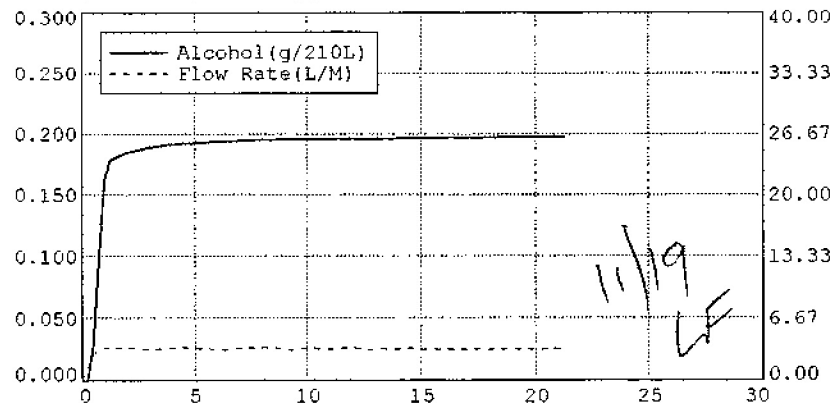
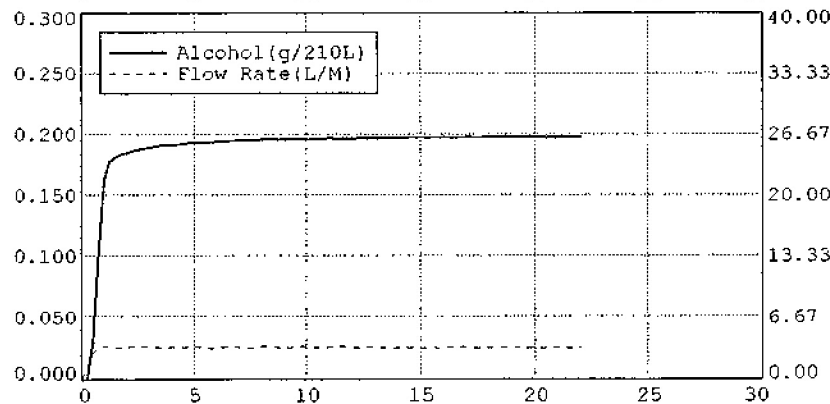
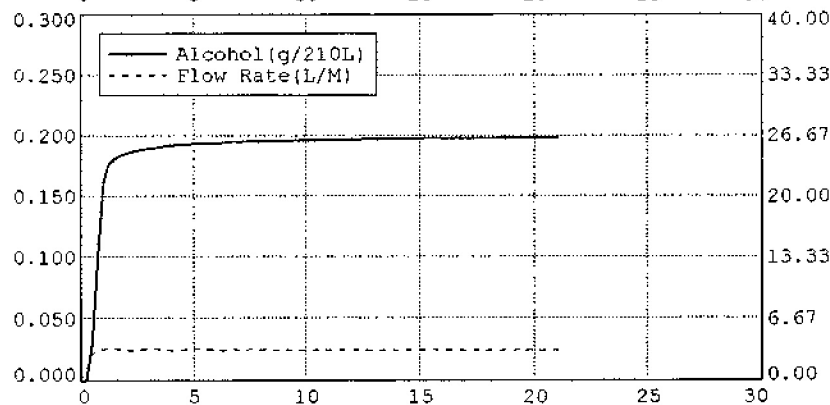
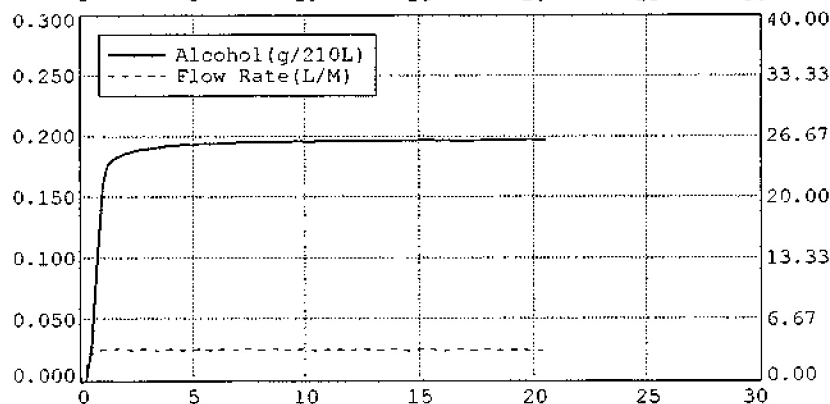
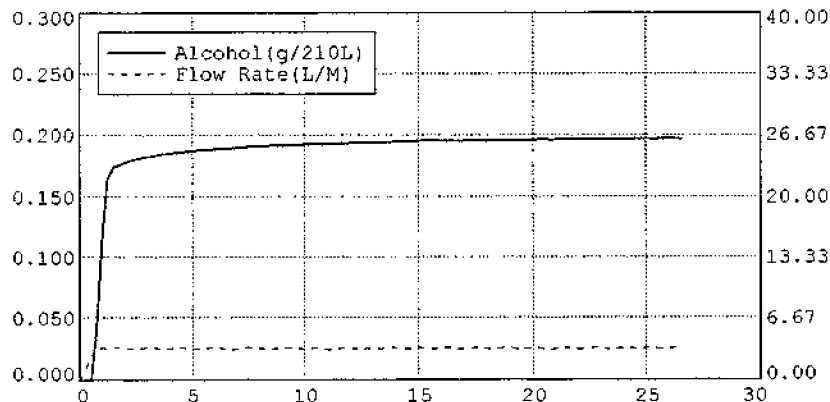
Date: 01/08/2013
Time: 14:37:03

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:38
INTERNAL STANDARD	VERIFIED	14:38
EXTERNAL STANDARD	0.198	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.198	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.199	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.199	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.199	14:44
BLANK TEST	0.000	14:45

Average = 0.1989
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

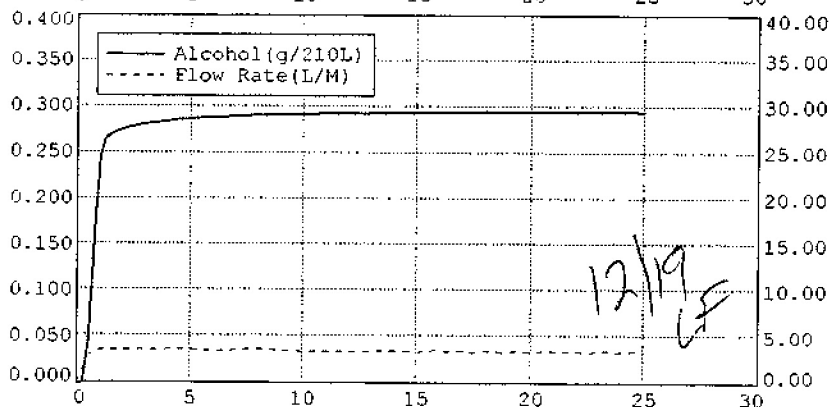
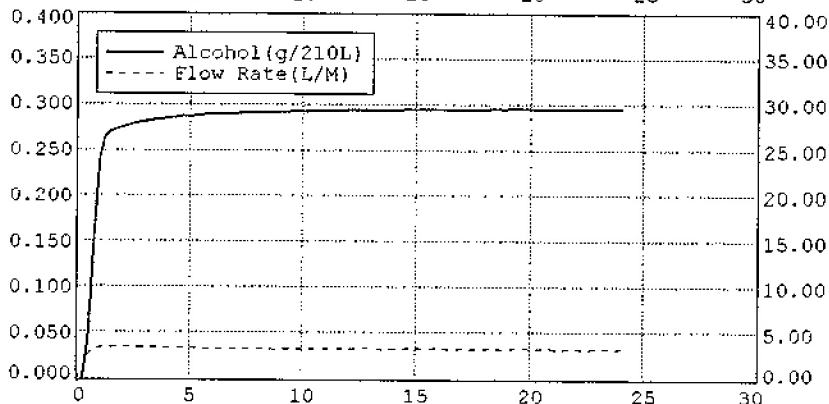
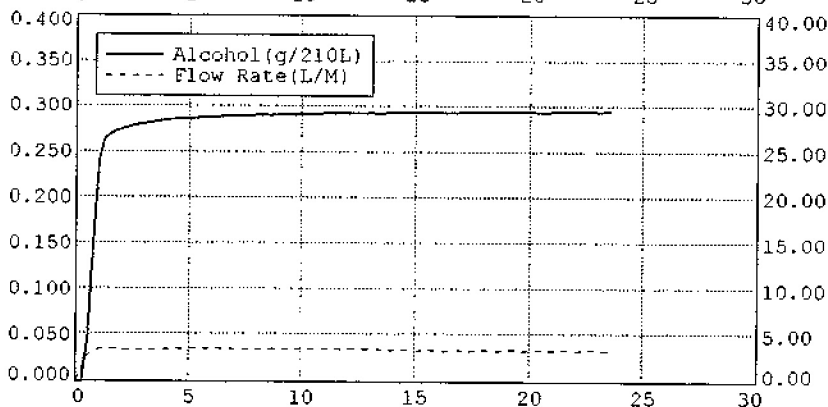
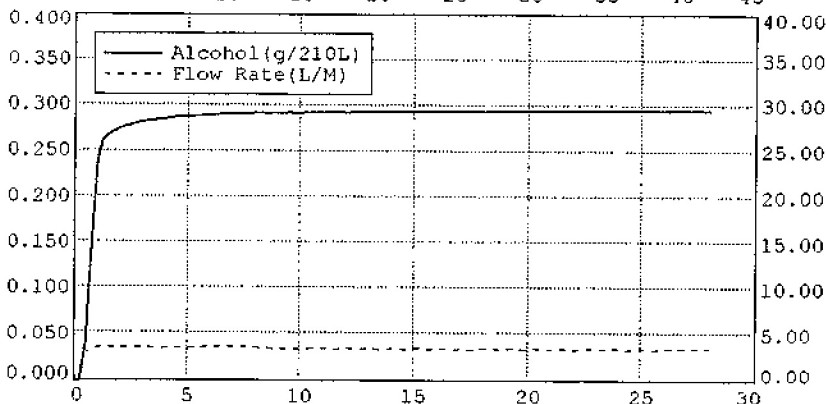
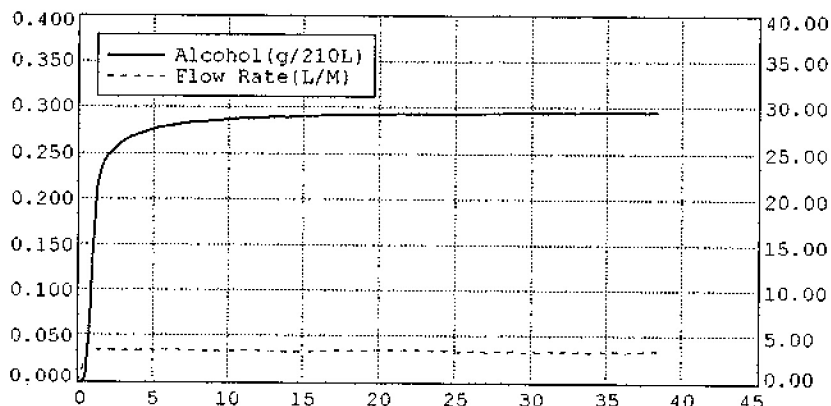
Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 01/08/2013
Time: 14:48:26

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
LOT #: 12050
EXPIRATION: 03/21/2014

BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.296	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.296	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.296	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.297	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.296	14:56
BLANK TEST	0.000	14:57

Average = 0.2964
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100342

Date: 01/08/2013
 Time: 15:04:34

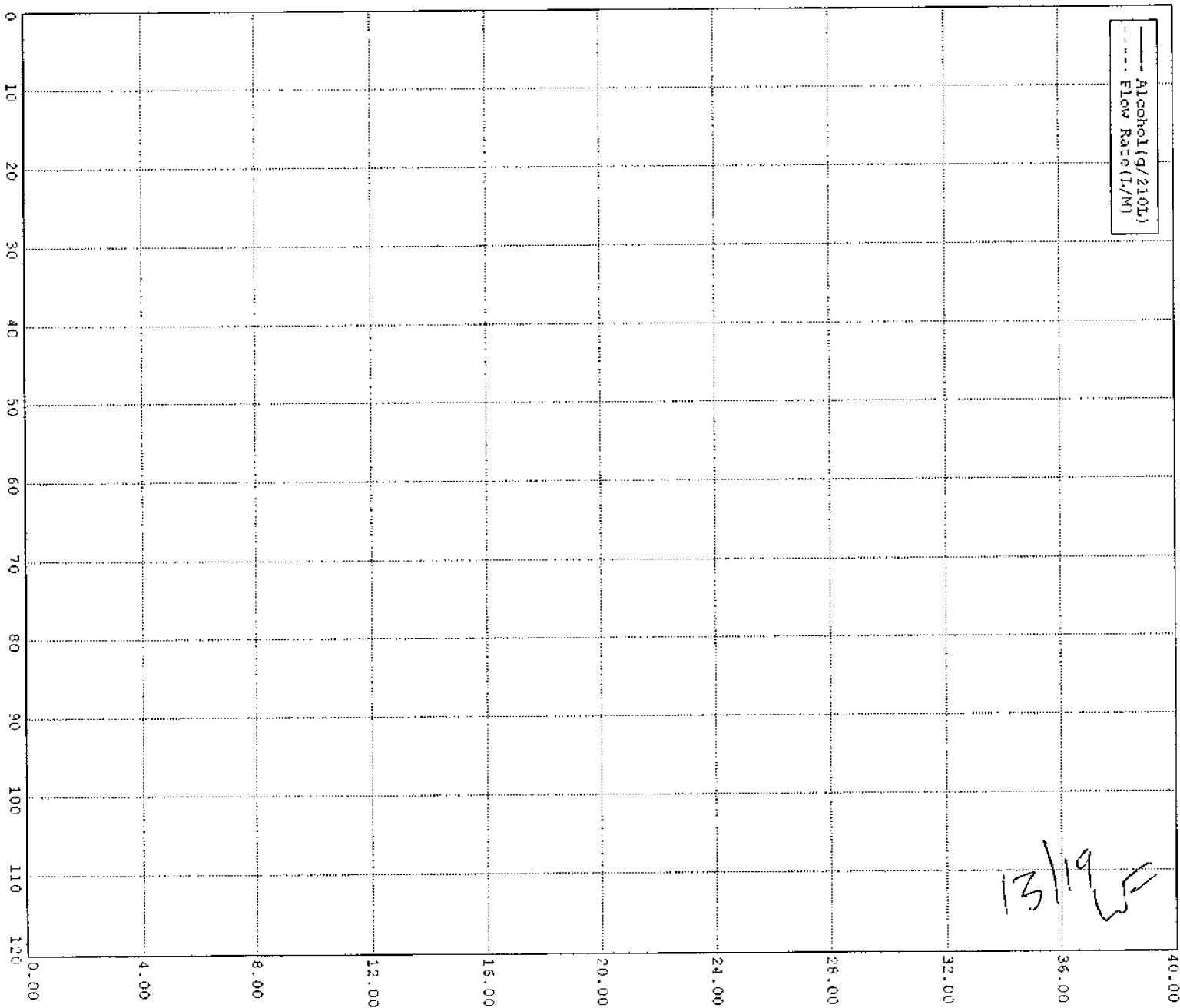
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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	15:14
BLANK TEST	0.000	15:14
INTERNAL STANDARD	VERIFIED	15:14
EXTERNAL STANDARD	0.077	15:14
BLANK TEST	0.000	15:15
SUBJECT SAMPLE	INCOMPLETE	15:17



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100342

Date: 01/09/2013
Time: 09:22:13

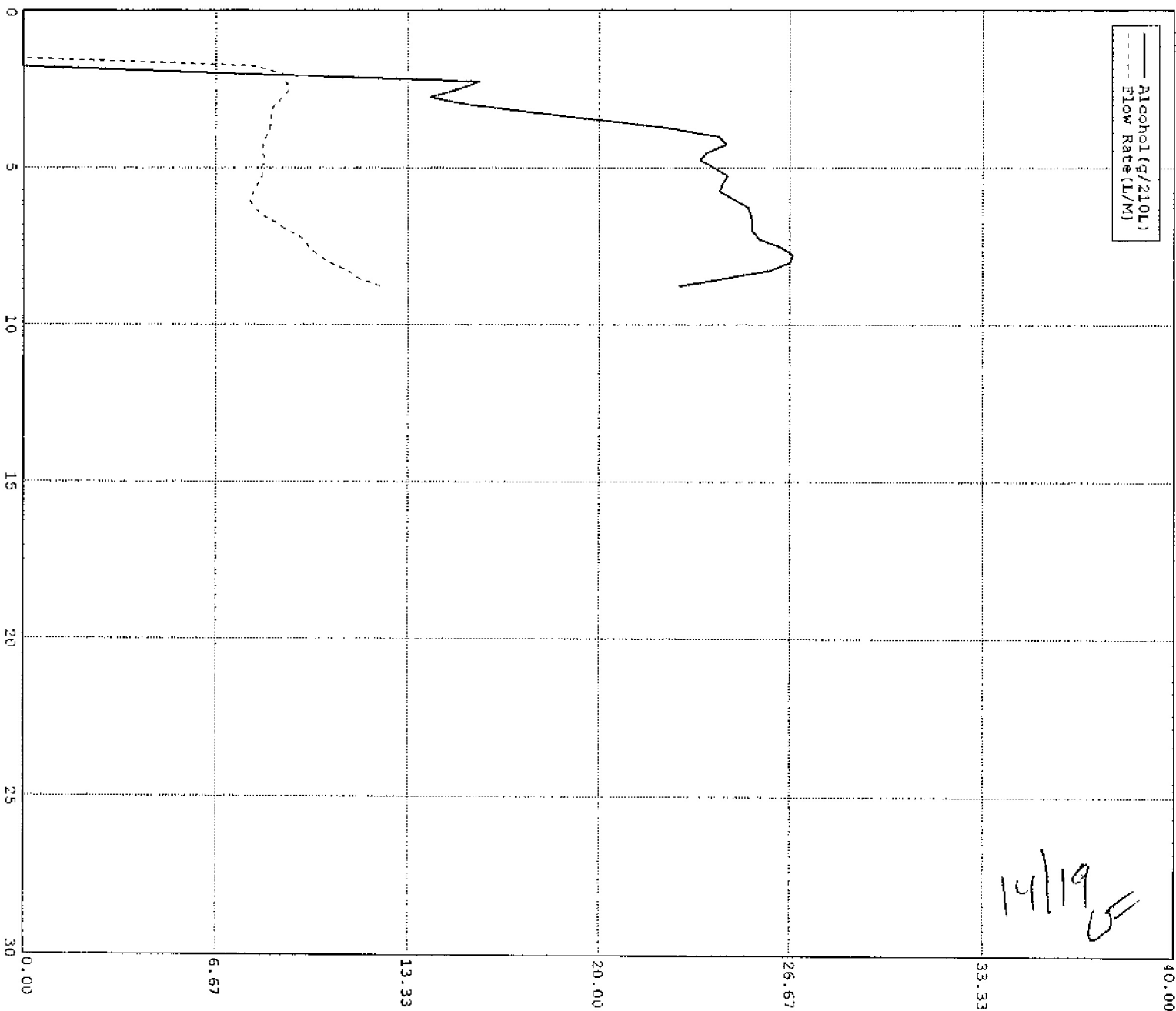
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.79: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:26
BLANK TEST	0.000	09:26
INTERNAL STANDARD	VERIFIED	09:26
EXTERNAL STANDARD	0.077	09:26
BLANK TEST	0.000	09:27
SUBJECT SAMPLE	INVALID	09:27



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100342

Date: 01/09/2013
 Time: 09:34:43

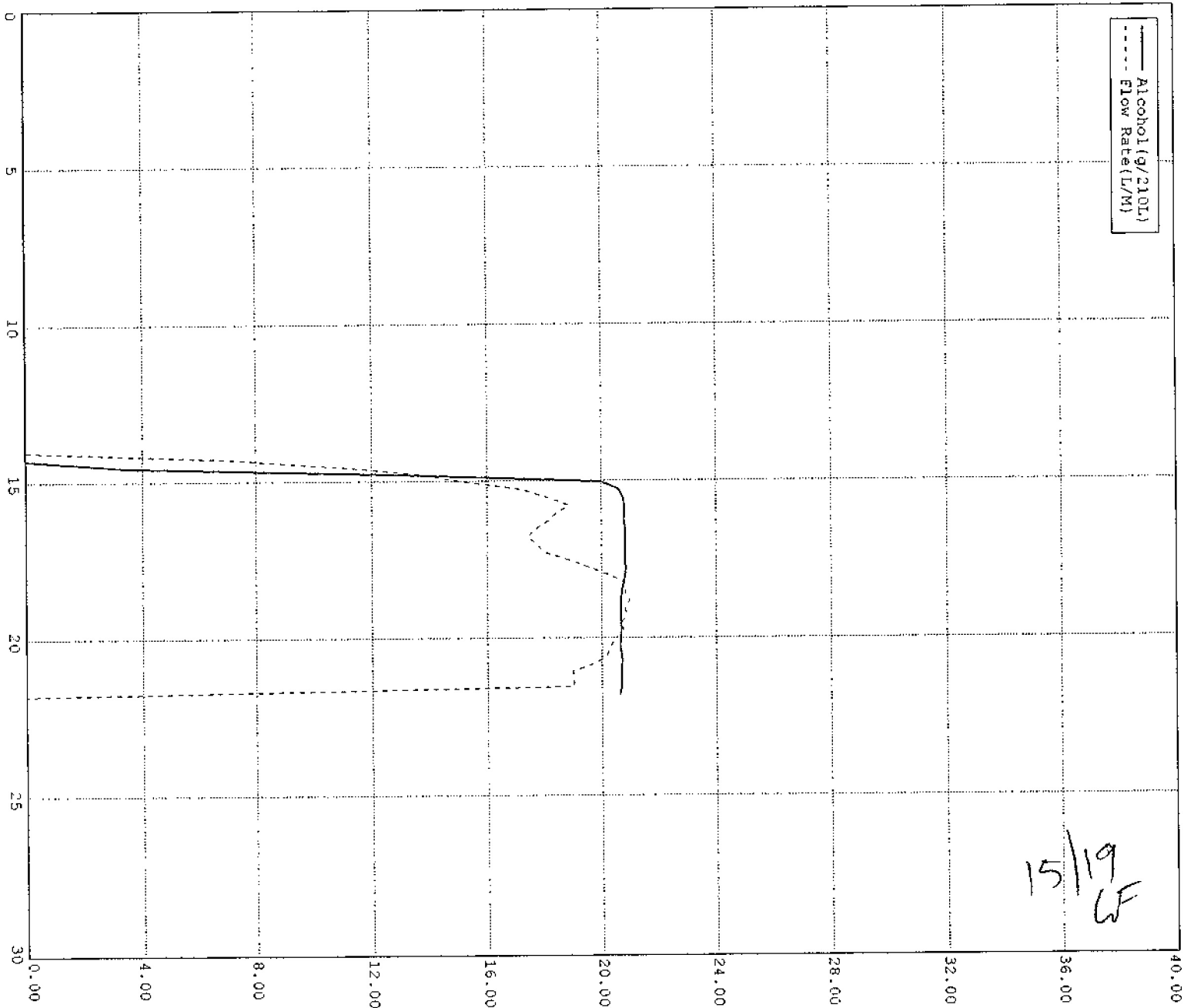
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.79: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:38
BLANK TEST	0.000	09:38
INTERNAL STANDARD	VERIFIED	09:38
XG = 0.091 (0.198)		
EXTERNAL STANDARD	0.078	09:39
X[1] = 0.0782 (-0.0034)	(0.0010)	
BLANK TEST	0.000	09:39
SUBJECT SAMPLE	INTERFERENCE	09:40
X[1] = 0.1044 (-0.0154)	(0.0008)	



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 01/09/2013
Time: 09:43:16

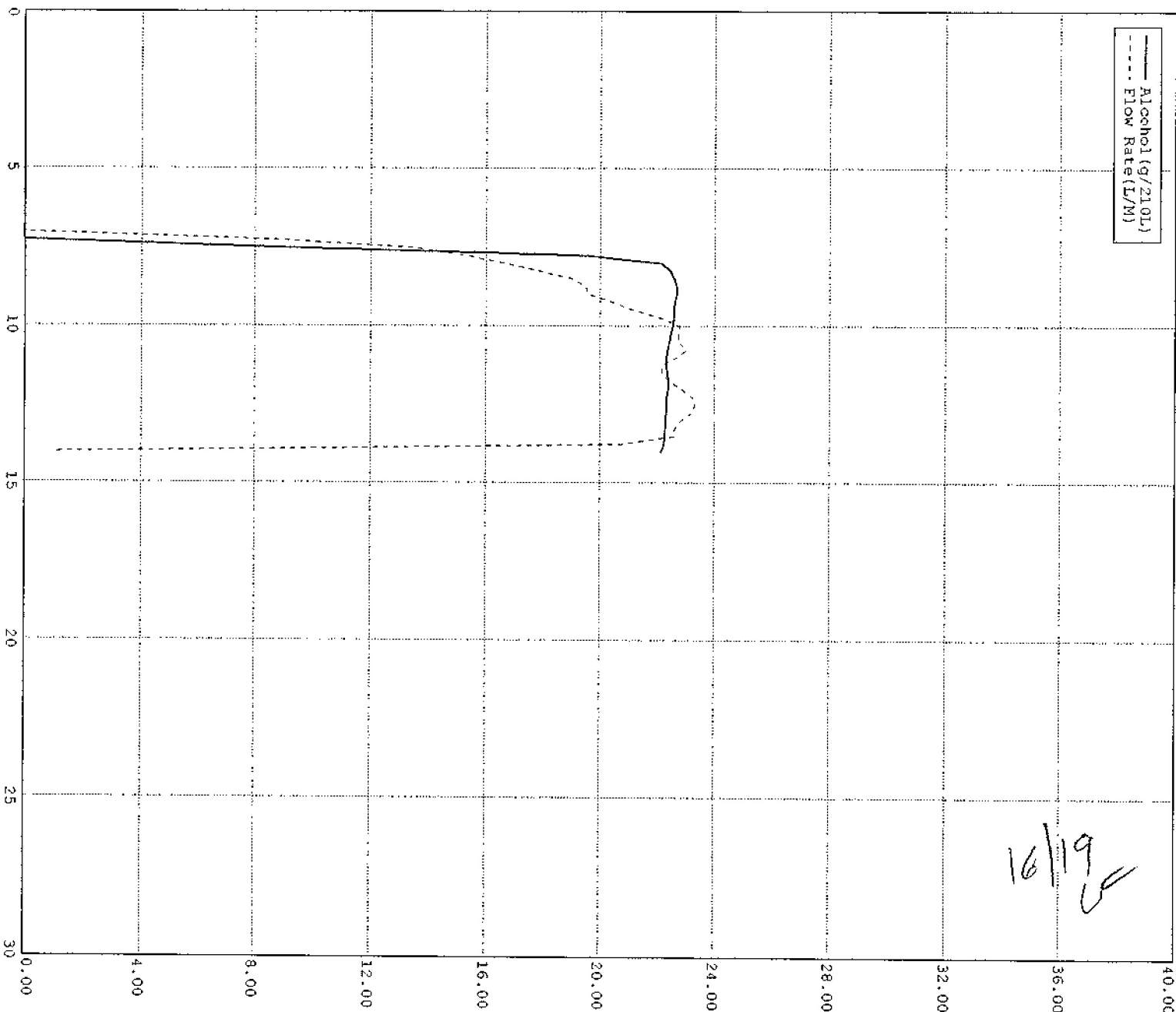
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.80: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:48
BLANK TEST	0.000	09:48
INTERNAL STANDARD	VERIFIED	09:48
Xq = 0.091 (0.10%)		
EXTERNAL STANDARD	0.078	09:48
X[1] = 0.0781 (-0.0034)	(0.0013)	
BLANK TEST	0.000	09:49
SUBJECT SAMPLE	INTERFERENCE	09:49
X[1] = 0.1116 (-0.0291)	(-0.0003)	



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100342

Date: 01/09/2013
 Time: 10:08:07

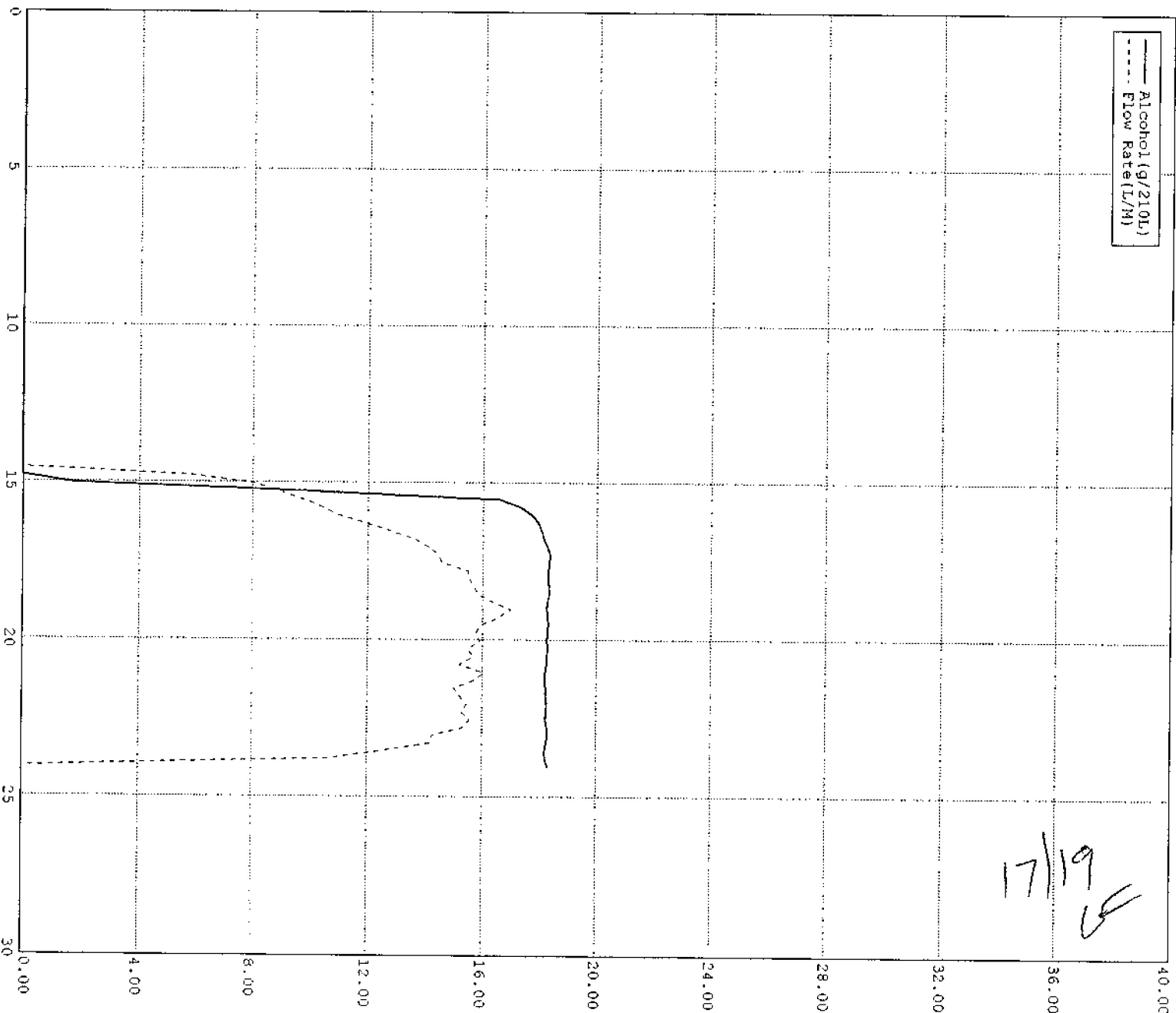
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.81: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:16
BLANK TEST	0.000	10:16
INTERNAL STANDARD	VERIFIED	10:17
Xq = 0.091 (0.29%)		
EXTERNAL STANDARD	0.077	10:17
X[1] = 0.0778 (-0.0031)	(0.0013)	
BLANK TEST	0.000	10:18
SUBJECT SAMPLE (Vol=2.16L)	0.092	10:18
X[1] = 0.0922 (-0.0019)	(-0.0001)	
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.077	10:19
X[1] = 0.0776 (-0.0035)	(0.0015)	
BLANK TEST	0.000	10:20



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100342

Date: 01/09/2013
Time: 10:34:09

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

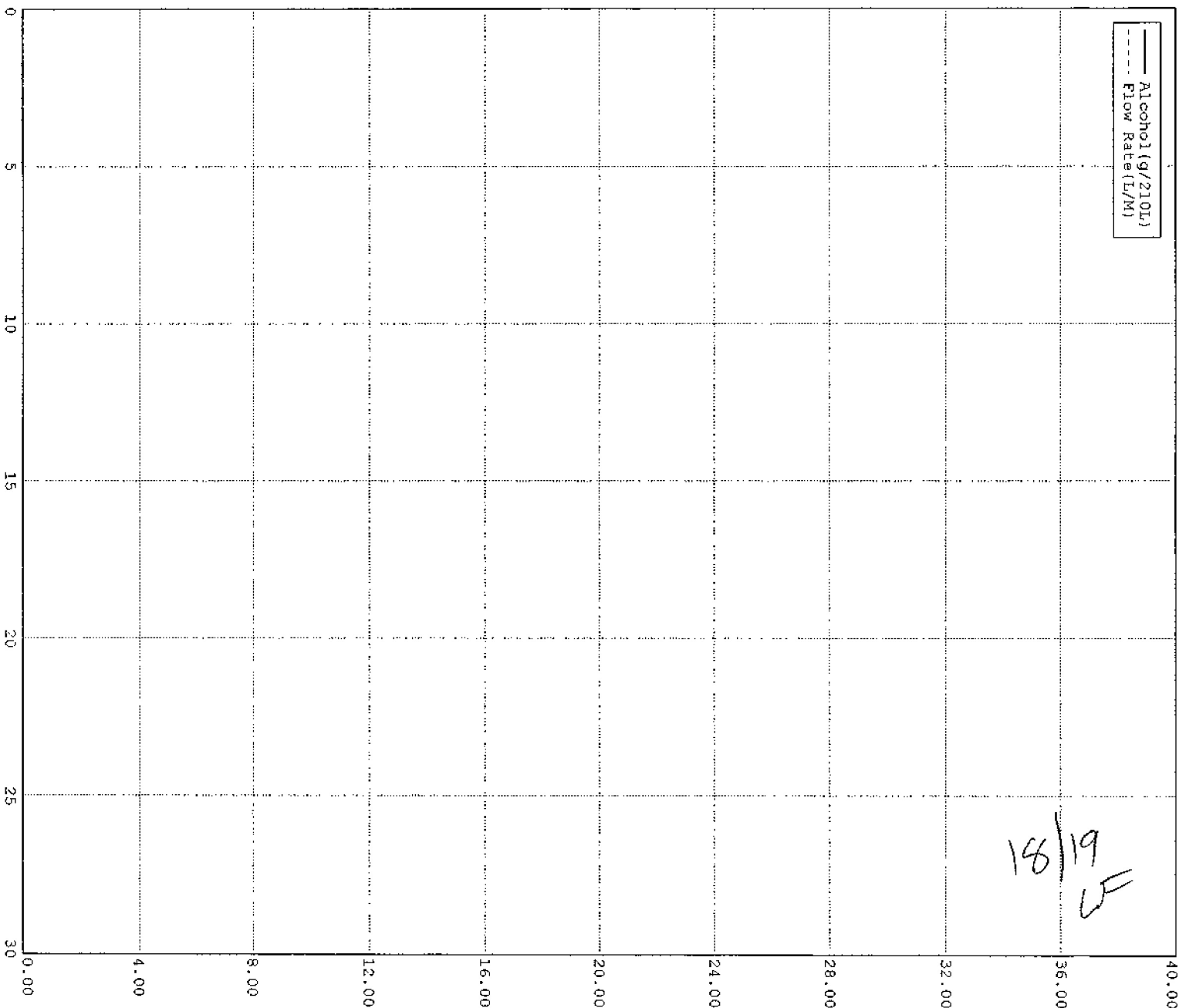
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.81: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:36
BLANK TEST	0.000	10:36
INTERNAL STANDARD	VERIFIED	10:36
EXTERNAL STANDARD	0.077	10:36
BLANK TEST	0.000	10:37

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100342

Date: 01/09/2013
Time: 11:05:34

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 #: 02012080A1
EXPIRATION: 03/01/2014

TEST TYPE	PASSED	TIME
DIAGNOSTIC CHECK	0.000	11:06
BLANK TEST	0.000	11:06
INTERNAL STANDARD	0.078	11:07
EXTERNAL STANDARD	0.000	11:07
BLANK TEST	0.000	11:07
SUBJECT SAMPLE	0.000	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.078	11:09
BLANK TEST	0.000	11:10

