

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100672 Analyst CRF Start Date 6/20/13

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 00813020A1 Exp 3/1/15
 - ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 3/1/15
 - iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14
 - iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15
 - v. 0.200g/210L Mnf Guth Lot 12120 Exp 8/10/14
 - 1. Simulator S/N DR4162 Date Calibrated 10/9/12
 - vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15
 - 1. Simulator S/N DR4163 Date Calibrated 10/8/12

5. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference
 - i. Acetone - Mnf Guth Lot 11220 Level 0.10 Exp 10/24/13
 - 1. Simulator S/N DR5298 Date Calibrated 10/8/12
 - ii. Isopropanol - Mnf Guth Lot 11220 Level 0.10 Exp 10/24/13
 - 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 MA

End Date 6/20/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 06/20/2013
Time: 10:13:05

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 5.128 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

Technician Screen

DATAMASTER dmt: 100672

Date: 06/20/2013
Time: 11:08 AM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 47.8°C

Current Barometer 29.5 in
Volume (Ltr) 1.47

Settings

Lamp: 2.07 V
Bias: 80 V
Cooler: 1.89 V
Chopper: 547 Hz

Voltages (V)

Flow: 1.06 V
Detector: -0.029 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 09/22/2011
Time: 09:34:34

Ca = 0.1500
CAL = 0.995016 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0031 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.1044 0.0500 <= Xq < 0.2000
a21 = 1.140742 1.050 <= a21 < 1.300
a31 = 0.553722 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 06/20/2013
Time: 11:12:33

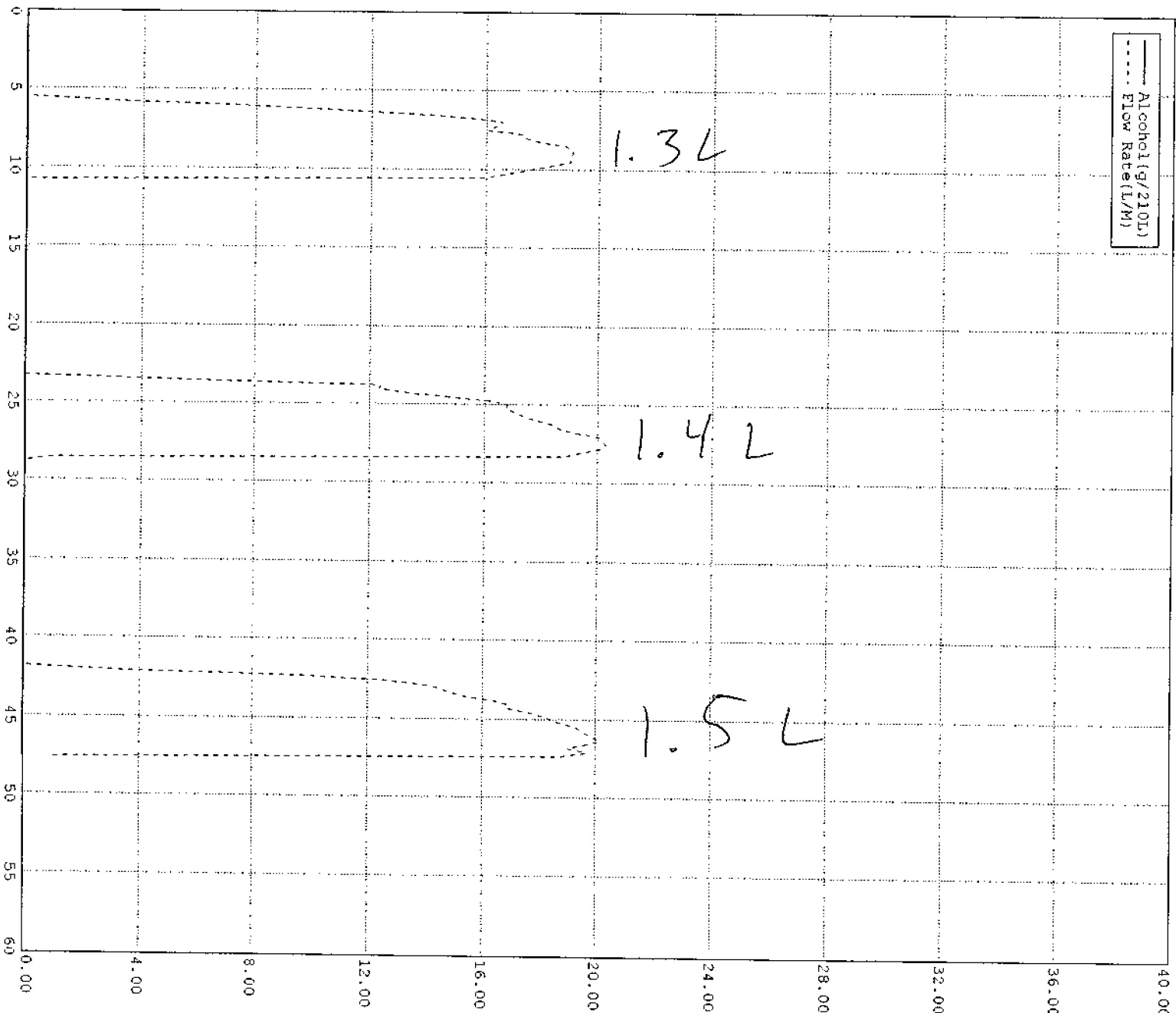
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.48: 0.078
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	11:22
BLANK TEST	0.000	11:22
INTERNAL STANDARD	VERIFIED	11:22
EXTERNAL STANDARD	0.079	11:22
BLANK TEST	0.000	11:23
SUBJECT SAMPLE	0.000	11:24
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.080	11:25
BLANK TEST	0.000	11:26



LINEARITY CHECK

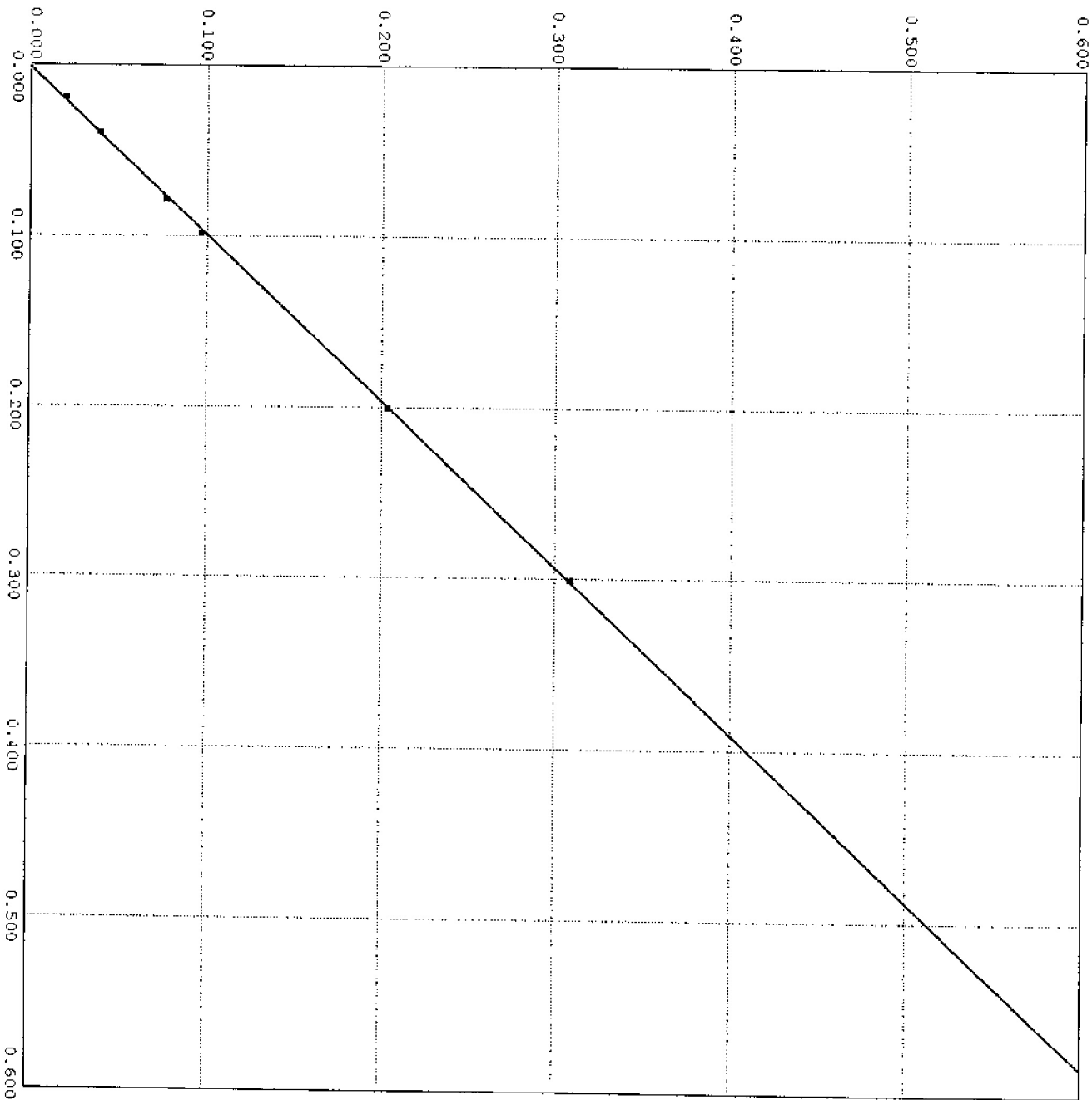
Alaska Department of Public Safety
 DATAMASTER dmt: 100672

Date: 06/20/2013
 Time: 13:16:04

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0206	0.0003
0.039	0.0402	0.0004
0.078	0.0779	0.0002
0.098	0.0977	0.0004
0.200	0.2042	0.0003
0.300	0.3092	0.0004

SLOPE = 1.029493
 R² = 0.999765



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100672

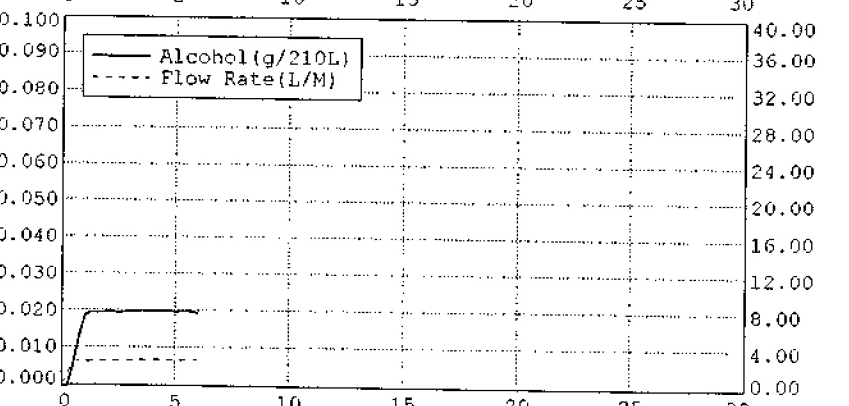
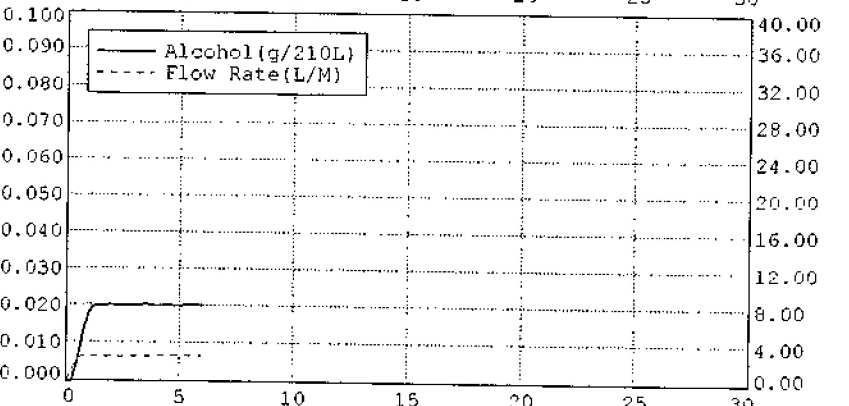
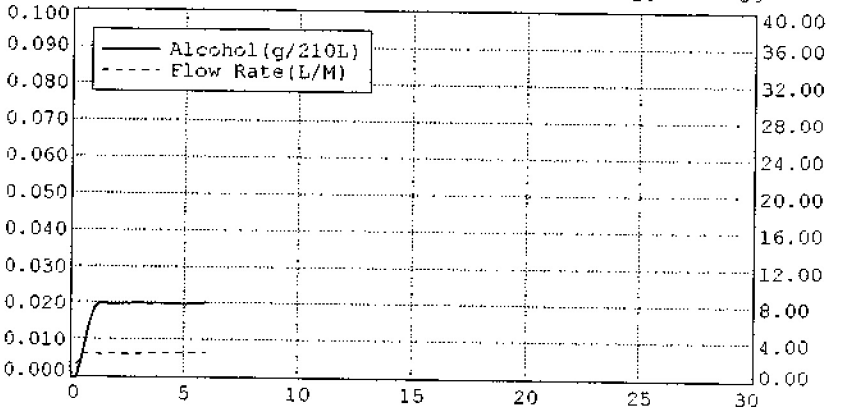
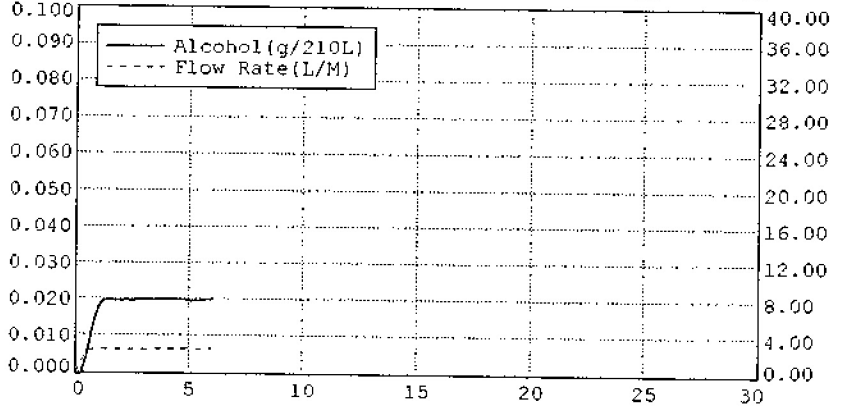
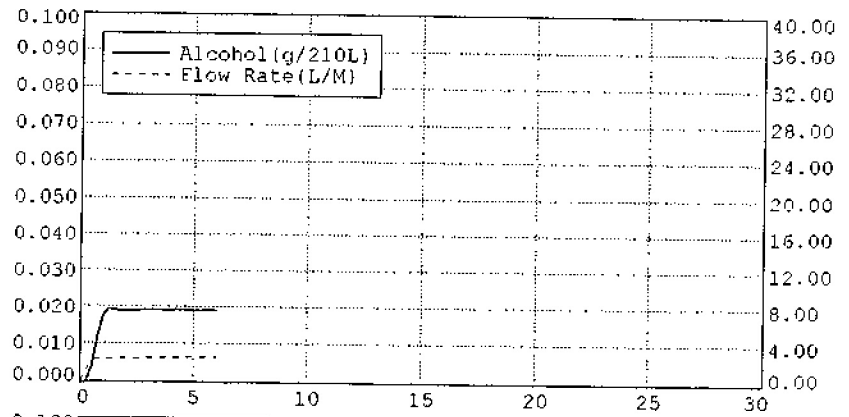
Date: 06/20/2013
 Time: 13:16:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.46: 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:17
INTERNAL STANDARD	VERIFIED	13:17
EXTERNAL STANDARD	0.020	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.020	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.020	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.020	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.020	13:22
BLANK TEST	0.000	13:22

Average = 0.0206
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100672

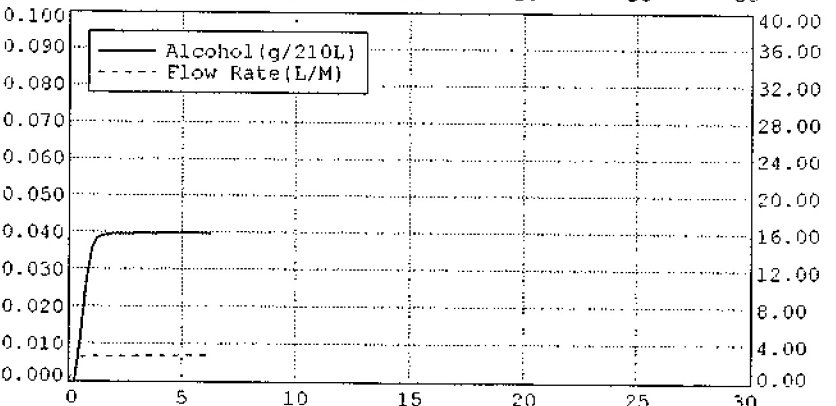
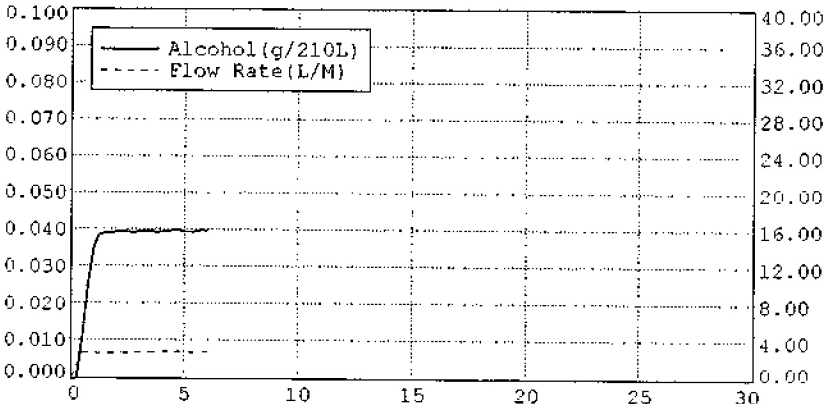
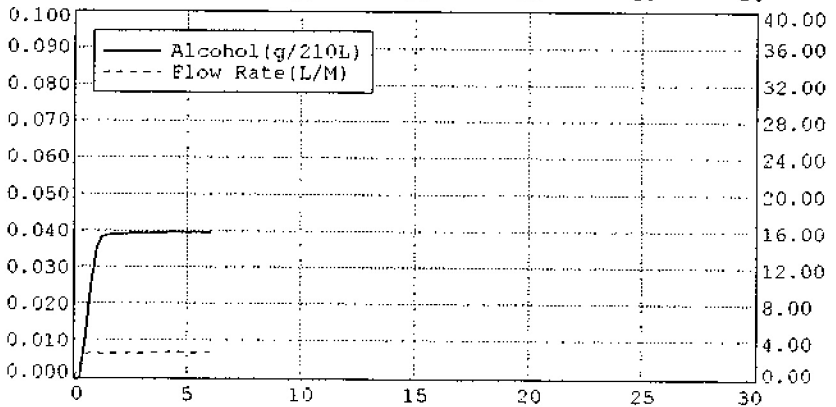
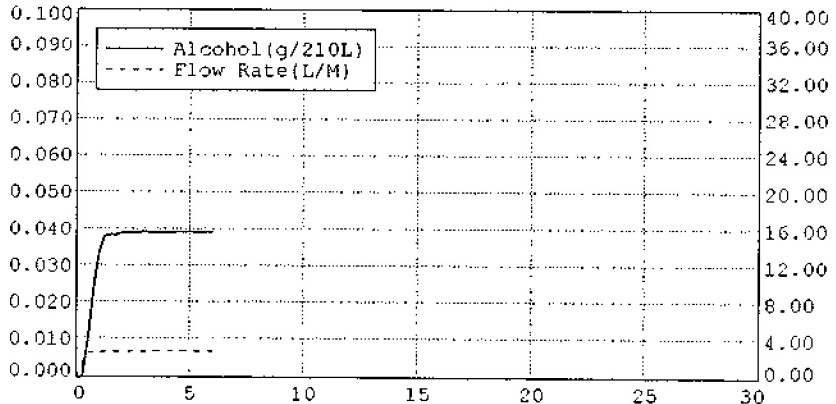
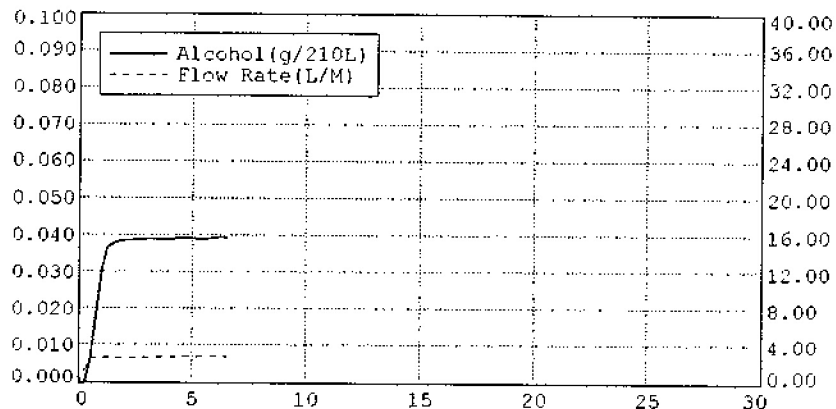
Date: 06/20/2013
 Time: 13:23:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.45: 0.039
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:24
EXTERNAL STANDARD	0.040	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.039	13:26
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.040	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.040	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.040	13:29
BLANK TEST	0.000	13:30

Average = 0.0402
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100672

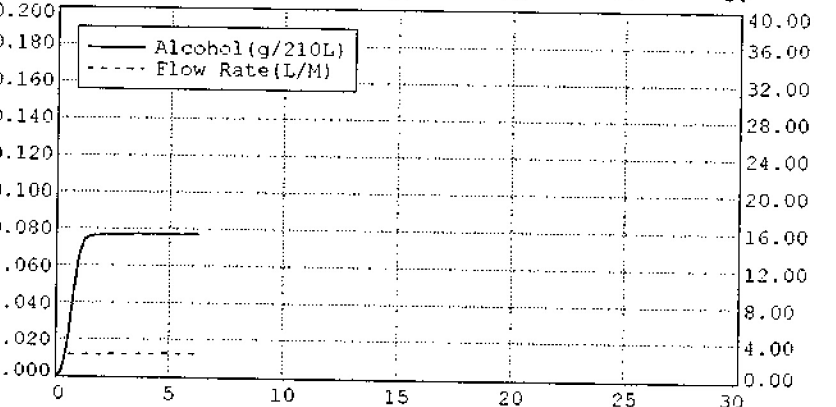
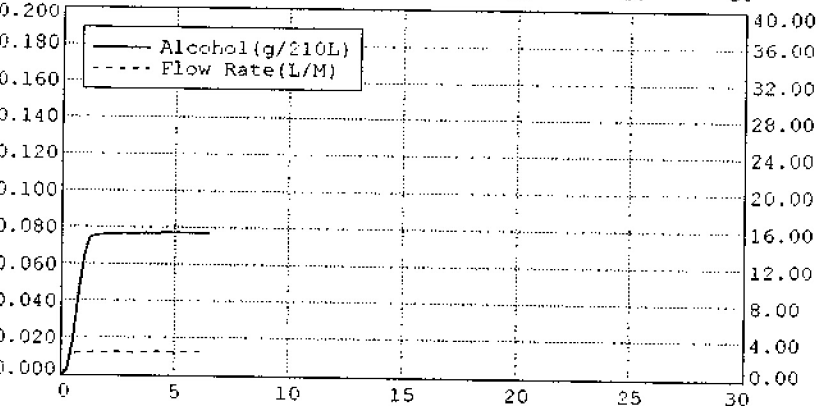
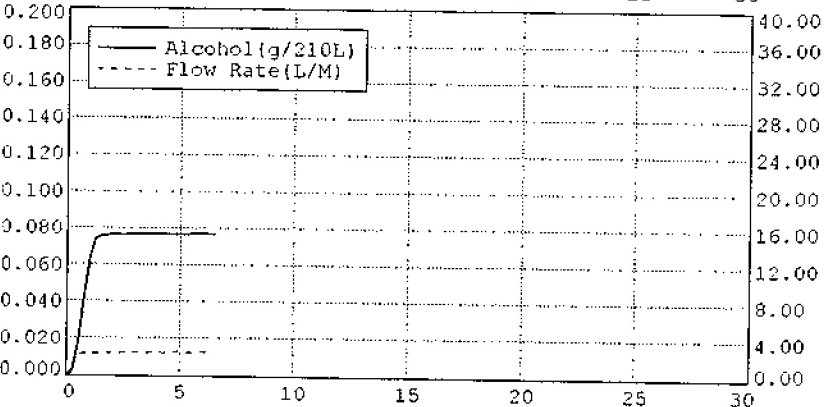
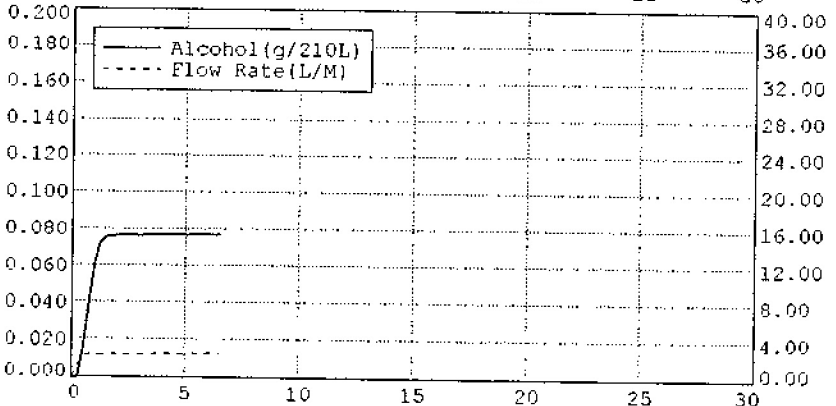
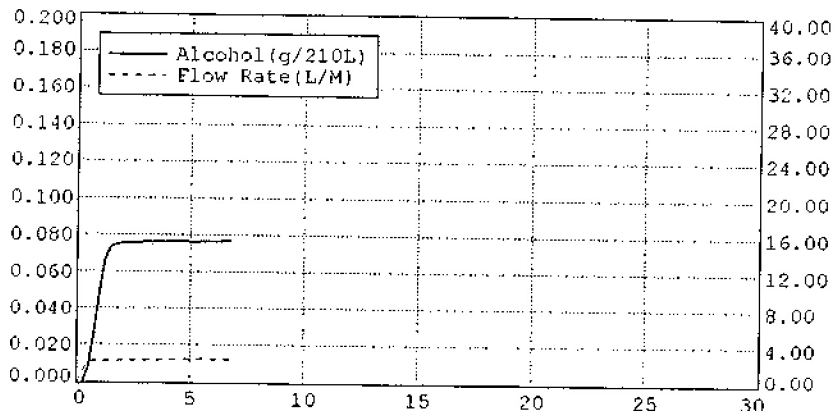
Date: 06/20/2013
 Time: 13:32:23

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:33
INTERNAL STANDARD	VERIFIED	13:33
EXTERNAL STANDARD	0.077	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.077	13:35
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.077	13:36
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.078	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.078	13:38
BLANK TEST	0.000	13:39

Average = 0.0779
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100672

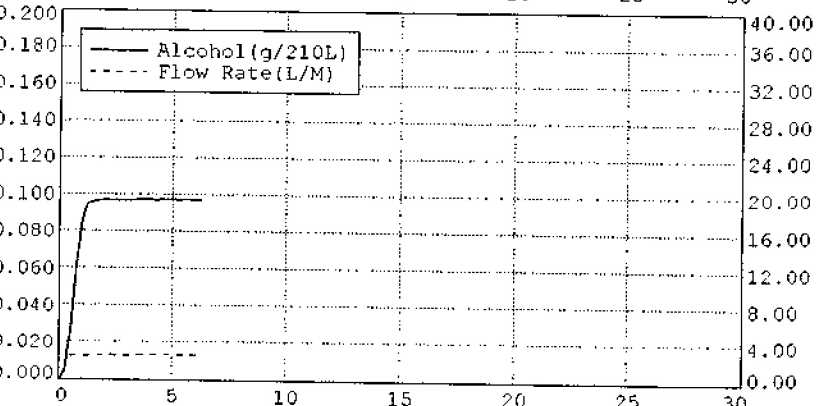
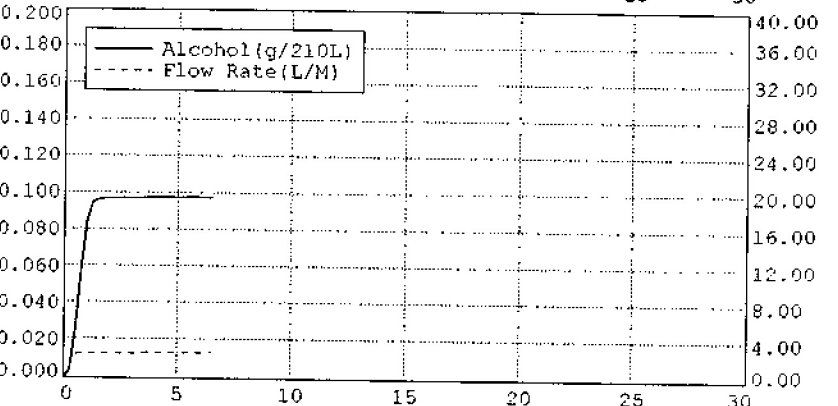
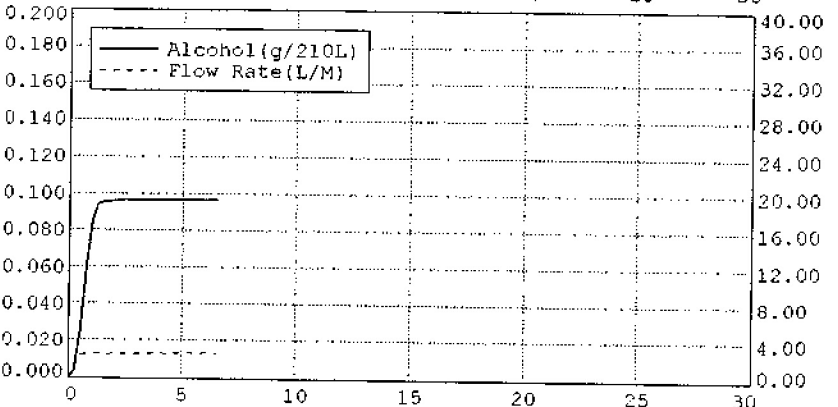
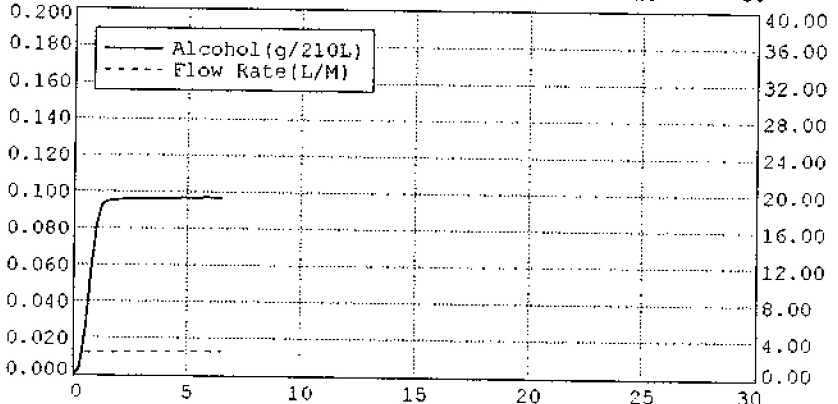
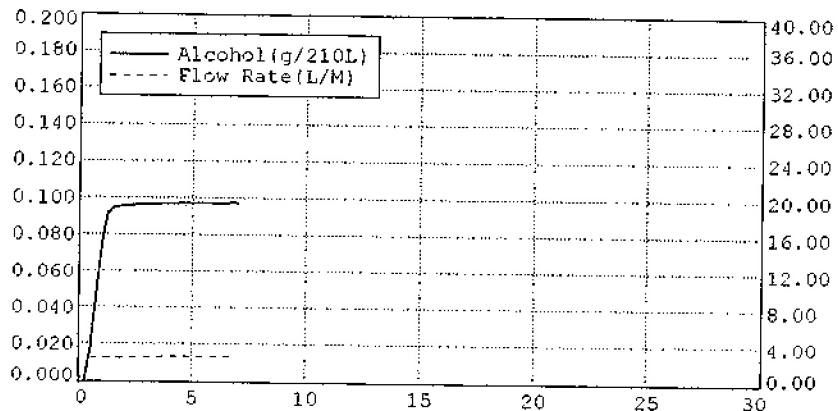
Date: 06/20/2013
 Time: 13:41:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.45: 0.098
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:42
INTERNAL STANDARD	VERIFIED	13:42
EXTERNAL STANDARD	0.097	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.097	13:44
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.097	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.098	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.098	13:47
BLANK TEST	0.000	13:48

Average = 0.0977
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100672

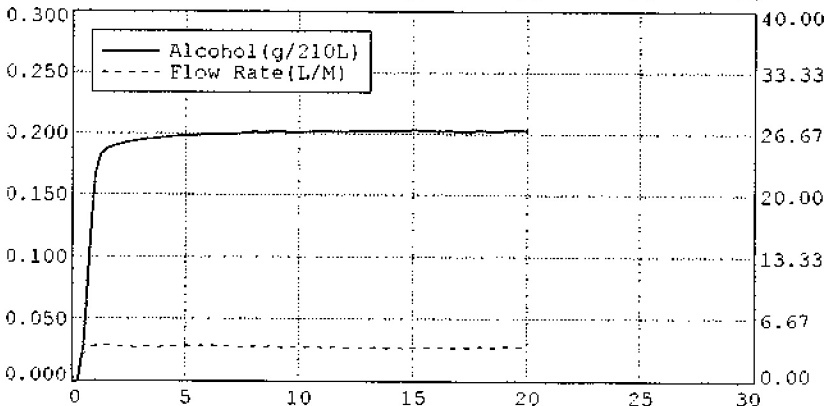
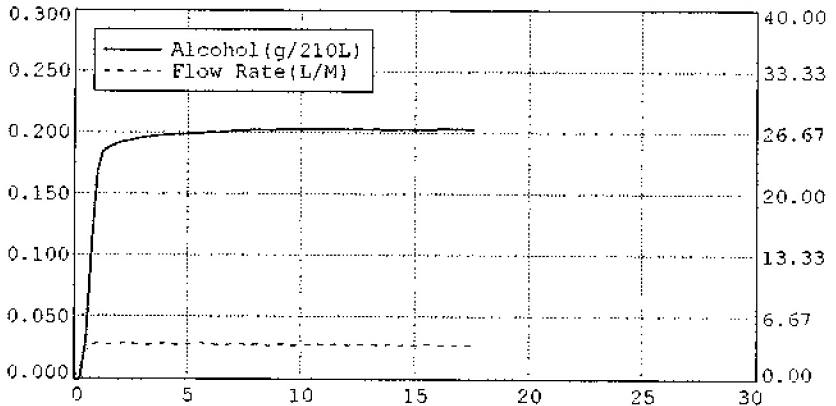
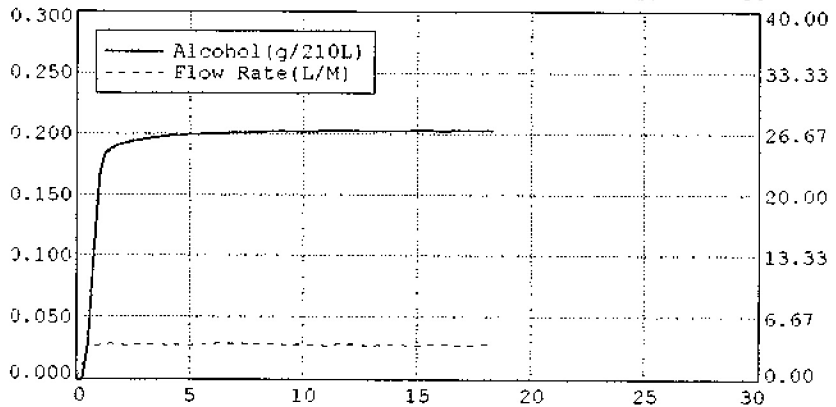
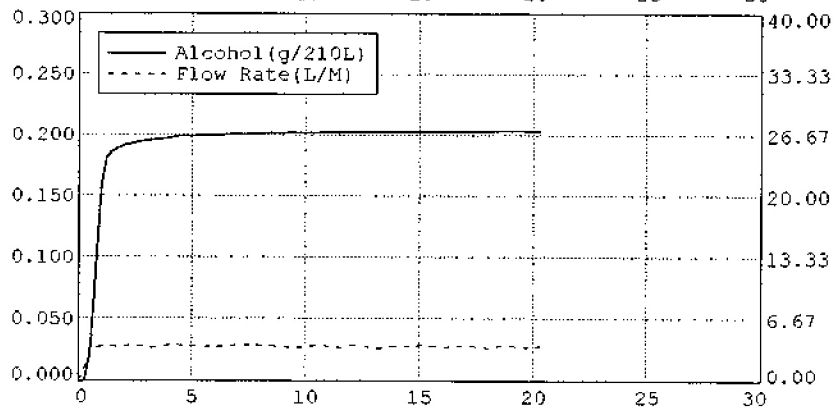
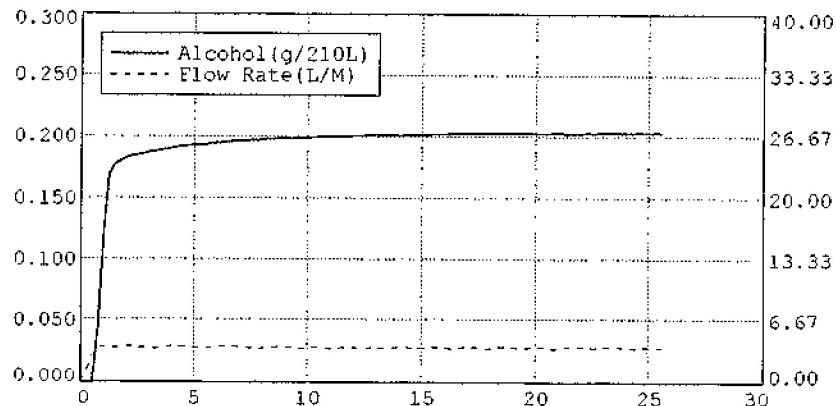
Date: 06/20/2013
 Time: 13:52:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 12120
 EXPIRATION: 08/10/2014

BLANK TEST	0.000	13:54
INTERNAL STANDARD	VERIFIED	13:54
EXTERNAL STANDARD	0.204	13:55
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.204	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.204	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.204	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.203	14:00
BLANK TEST	0.000	14:01

Average = 0.2042
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

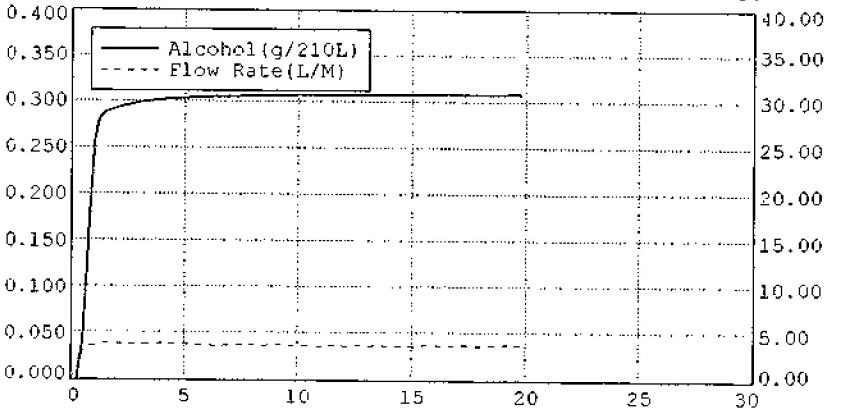
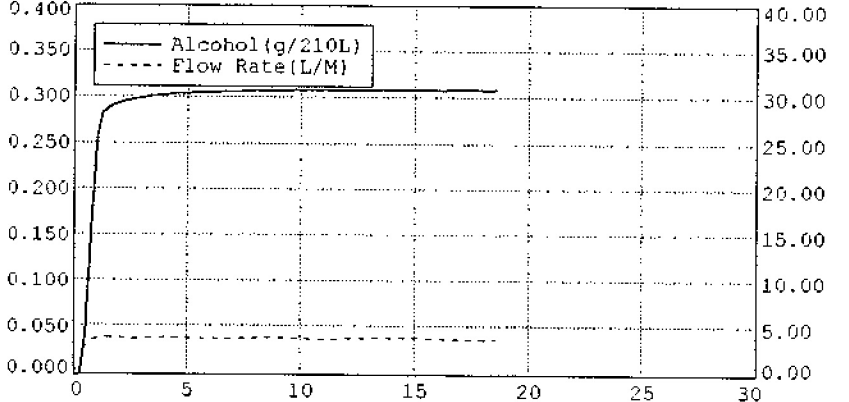
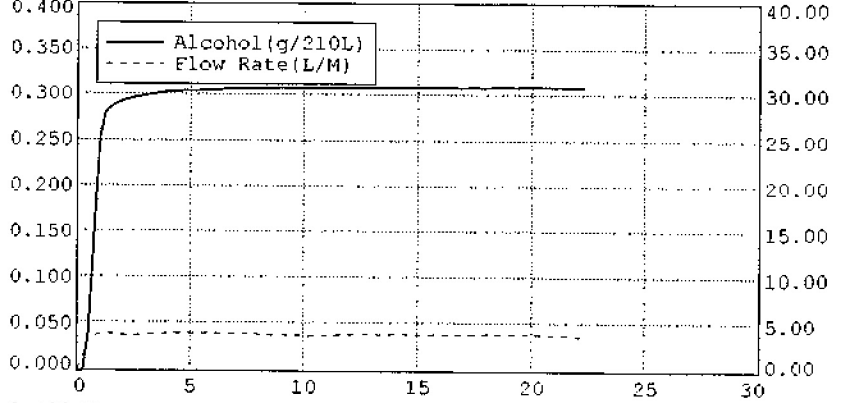
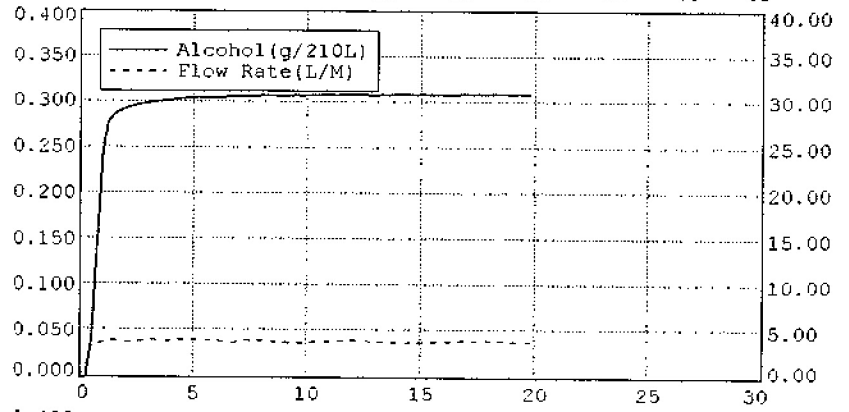
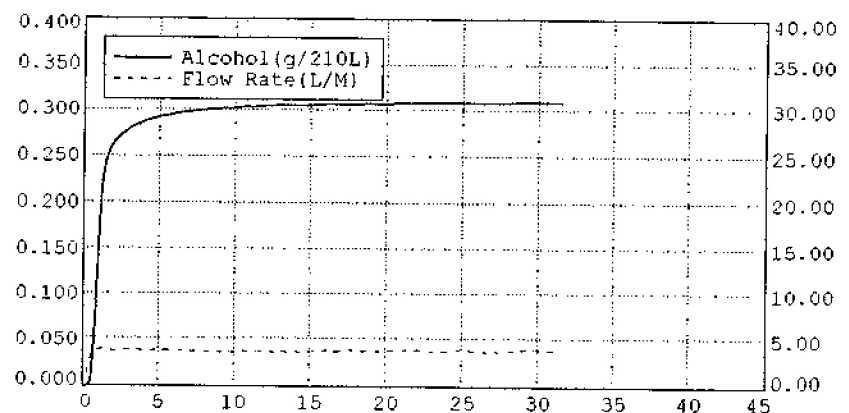
Alaska Department of Public Safety
 DATAMASTER dmt: 100672

Date: 06/20/2013
 Time: 14:05:41

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 13080
 EXPIRATION: 03/19/2015

BLANK TEST	0.000	14:06
INTERNAL STANDARD	VERIFIED	14:07
EXTERNAL STANDARD	0.309	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.309	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.309	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.308	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.308	14:13
BLANK TEST	0.000	14:14

Average = 0.3092
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 06/20/2013
Time: 14:18:51

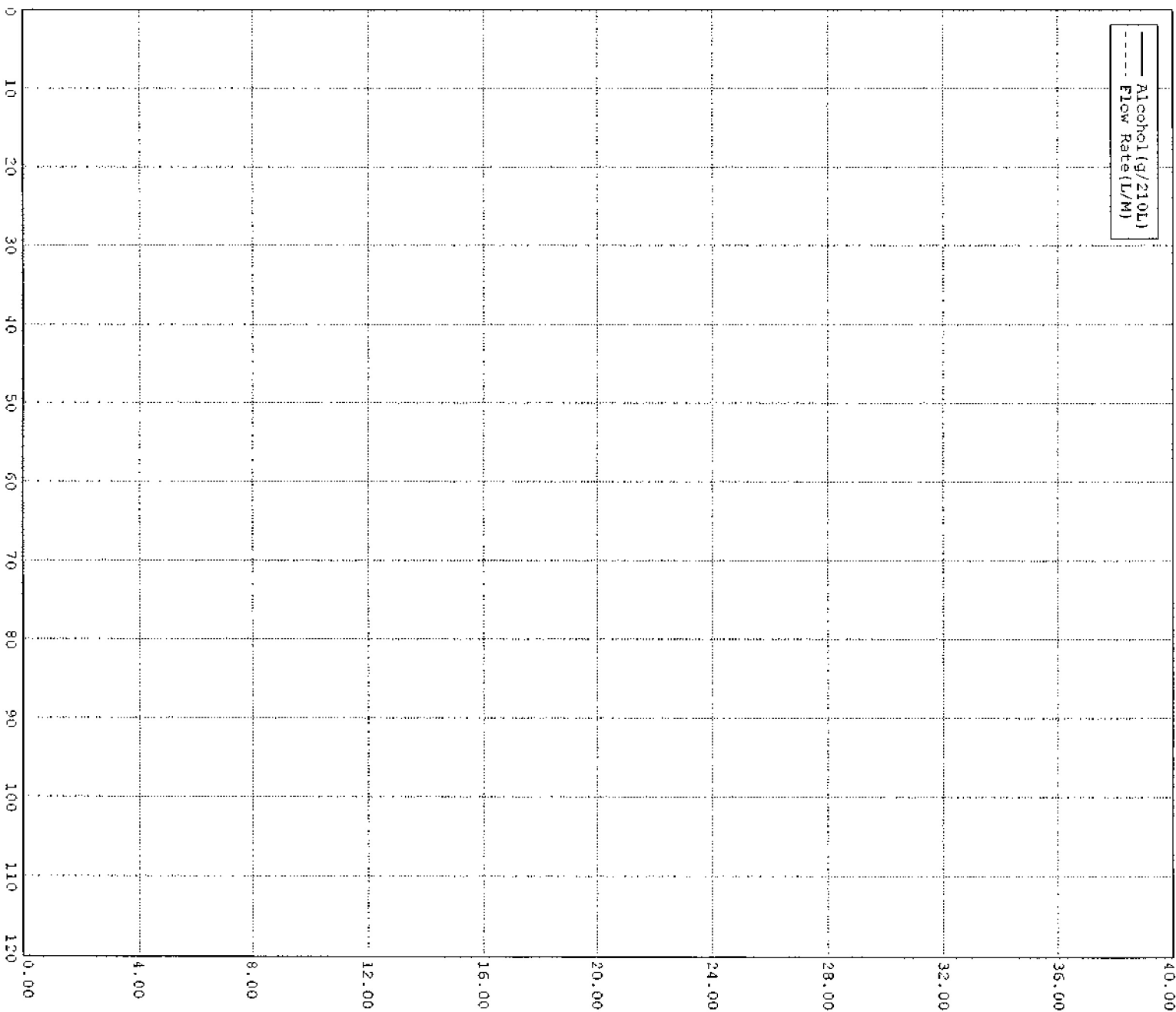
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.078
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:20
BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:20
EXTERNAL STANDARD	0.079	14:20
BLANK TEST	0.000	14:21
SUBJECT SAMPLE	INCOMPLETE	14:23



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 06/20/2013
Time: 14:27:22

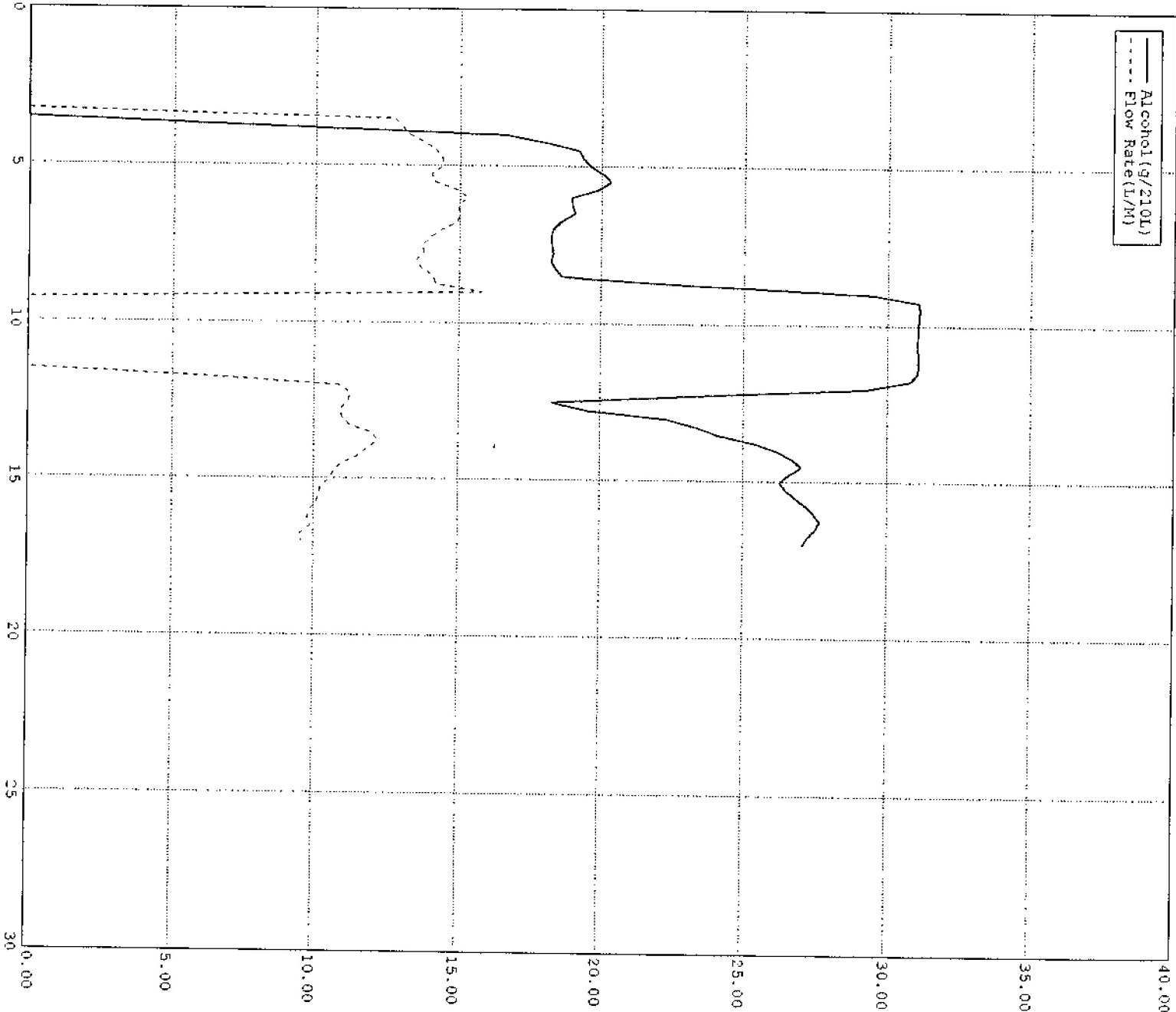
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID MOUTH ETOH
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 #: 22612080A1
EXPIRATION: 09/01/2014

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 06/20/2013
Time: 14:37:50

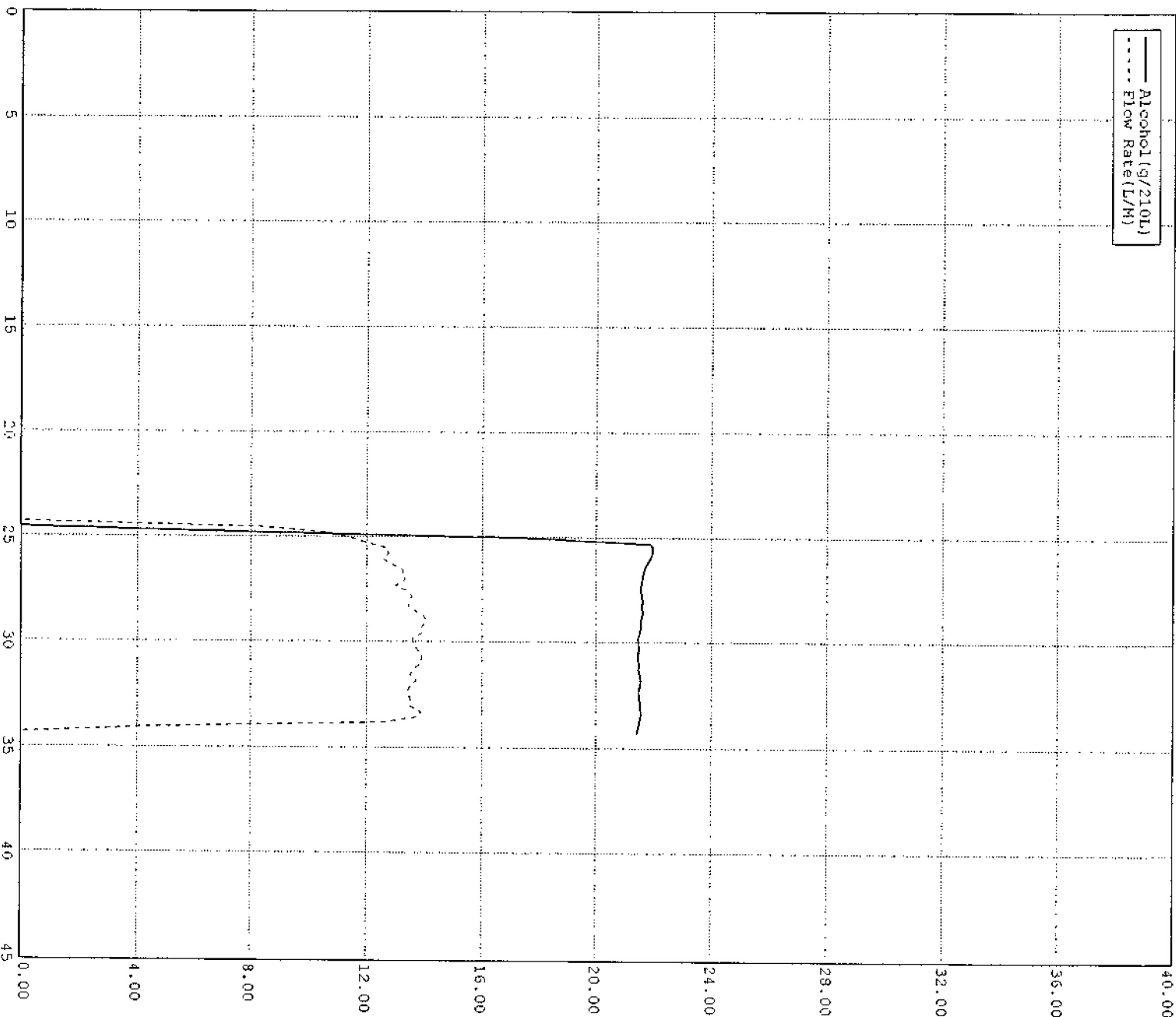
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.45: 0.078
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:39
BLANK TEST	0.000	14:39
INTERNAL STANDARD	VERIFIED	14:39
Xq = 0.106 (1.77%)	0.078	14:39
EXTERNAL STANDARD	X[1] = 0.0789 (0.0014)	(0.0041)
BLANK TEST	0.000	14:40
SUBJECT SAMPLE	INTERFERENCE	14:41
X[1] = 0.1076 (-0.0189)	(0.0025)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100672

Date: 06/20/2013
 Time: 14:43:00

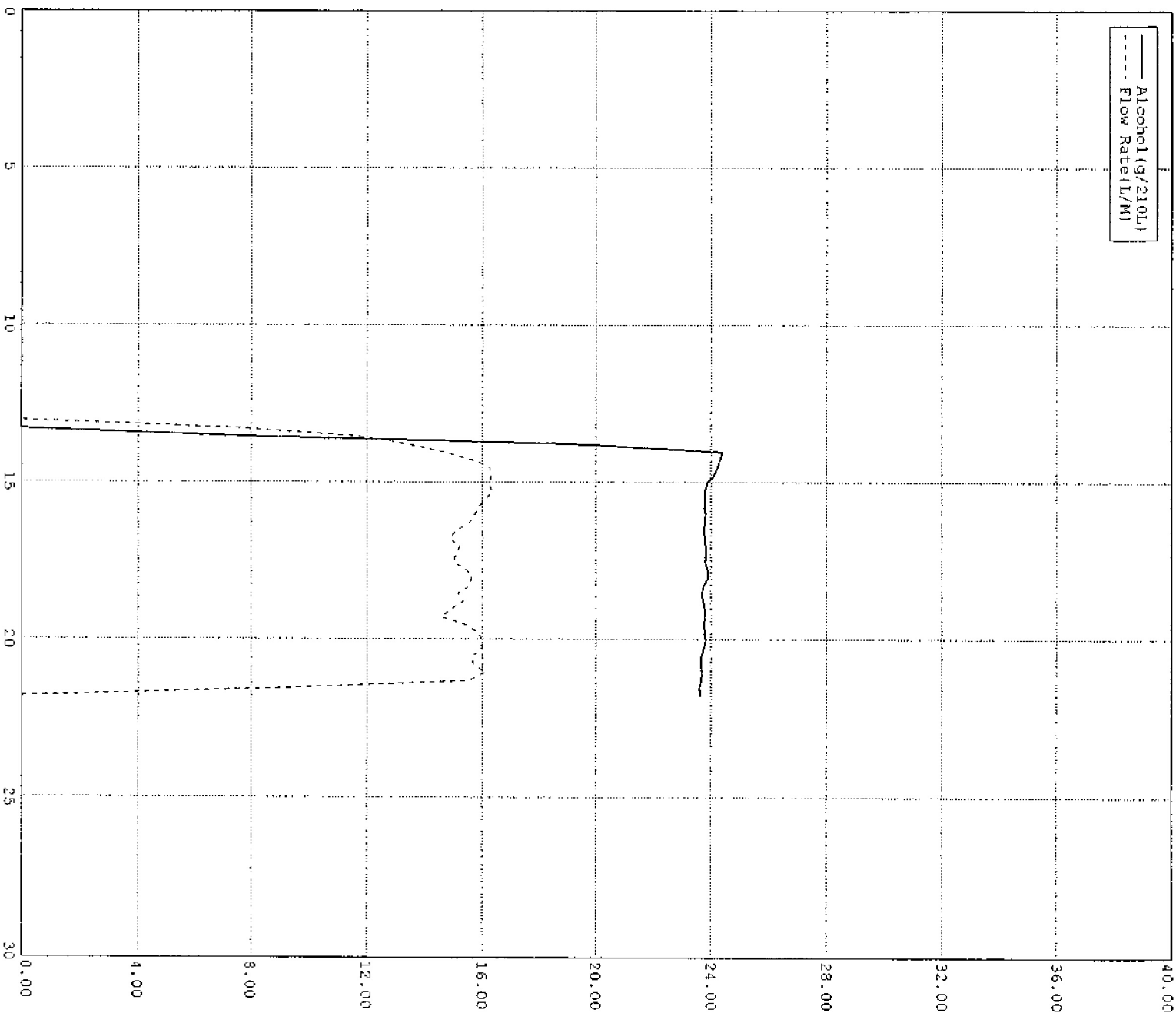
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.46: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:44
BLANK TEST	0.000	14:44
INTERNAL STANDARD	VERIFIED	14:44
Xq = 0.107 (2.53%)		
EXTERNAL STANDARD	0.079	14:44
X[1] = 0.0797 (0.0008)	(0.0031)	
BLANK TEST	0.000	14:45
SUBJECT SAMPLE	INTERFERENCE	14:46
X[1] = 0.1182 (-0.0218)	(0.0018)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100672

Date: 06/20/2013
 Time: 14:49:30

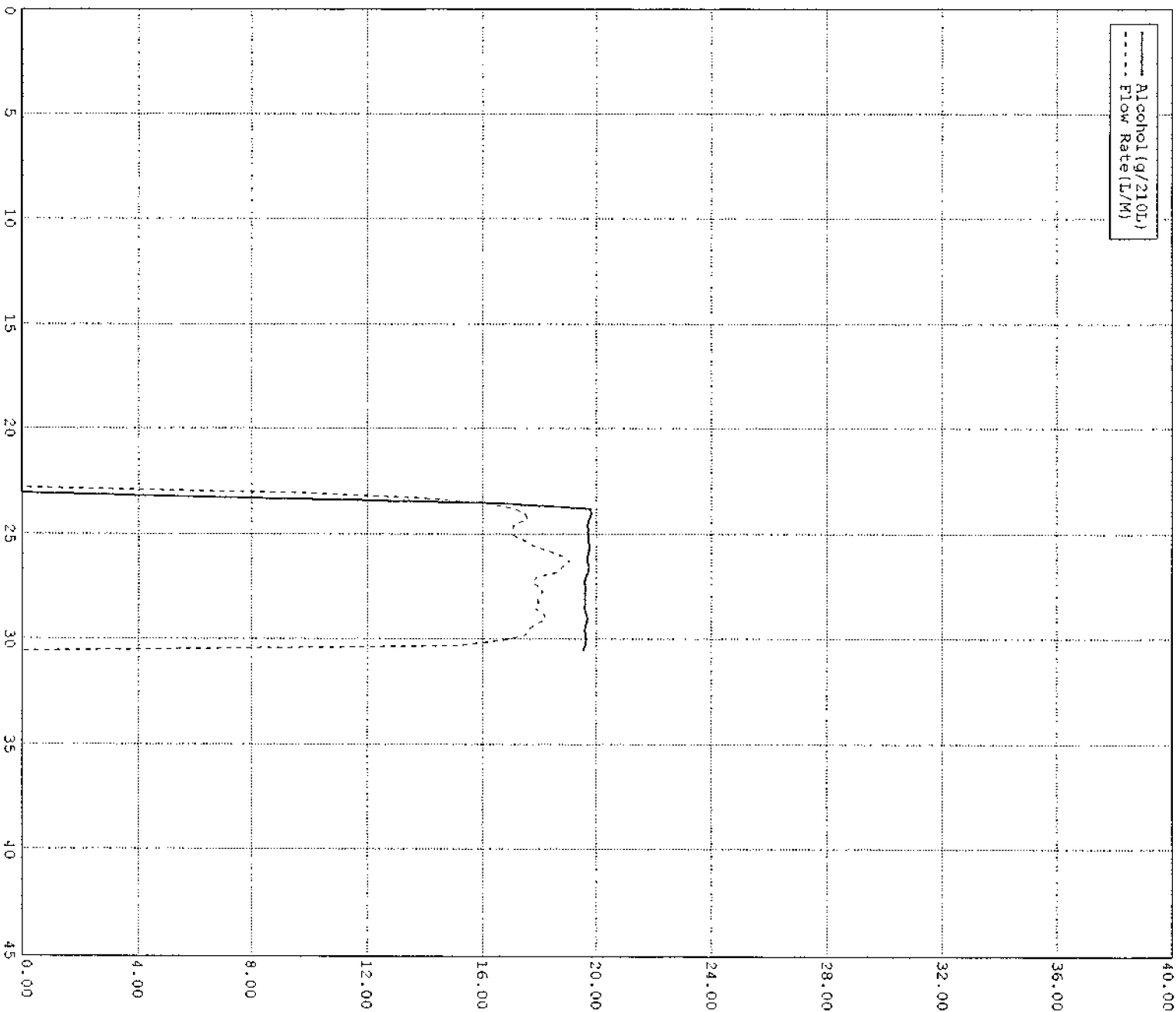
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.45: 0.078
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:52
BLANK TEST	0.000	14:52
INTERNAL STANDARD	VERIFIED	14:52
Xq = 0.107 (2.19%)		
EXTERNAL STANDARD	0.079	14:52
X[1] = 0.0793 (0.0006)	(0.0029)	
BLANK TEST	0.000	14:53
SUBJECT SAMPLE (Vol=2.15L)	0.098	14:54
X[1] = 0.0981 (-0.0005)	(0.0010)	
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.079	14:55
X[1] = 0.0799 (0.0011)	(0.0024)	
BLANK TEST	0.000	14:56



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 06/20/2013
Time: 15:19:31

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

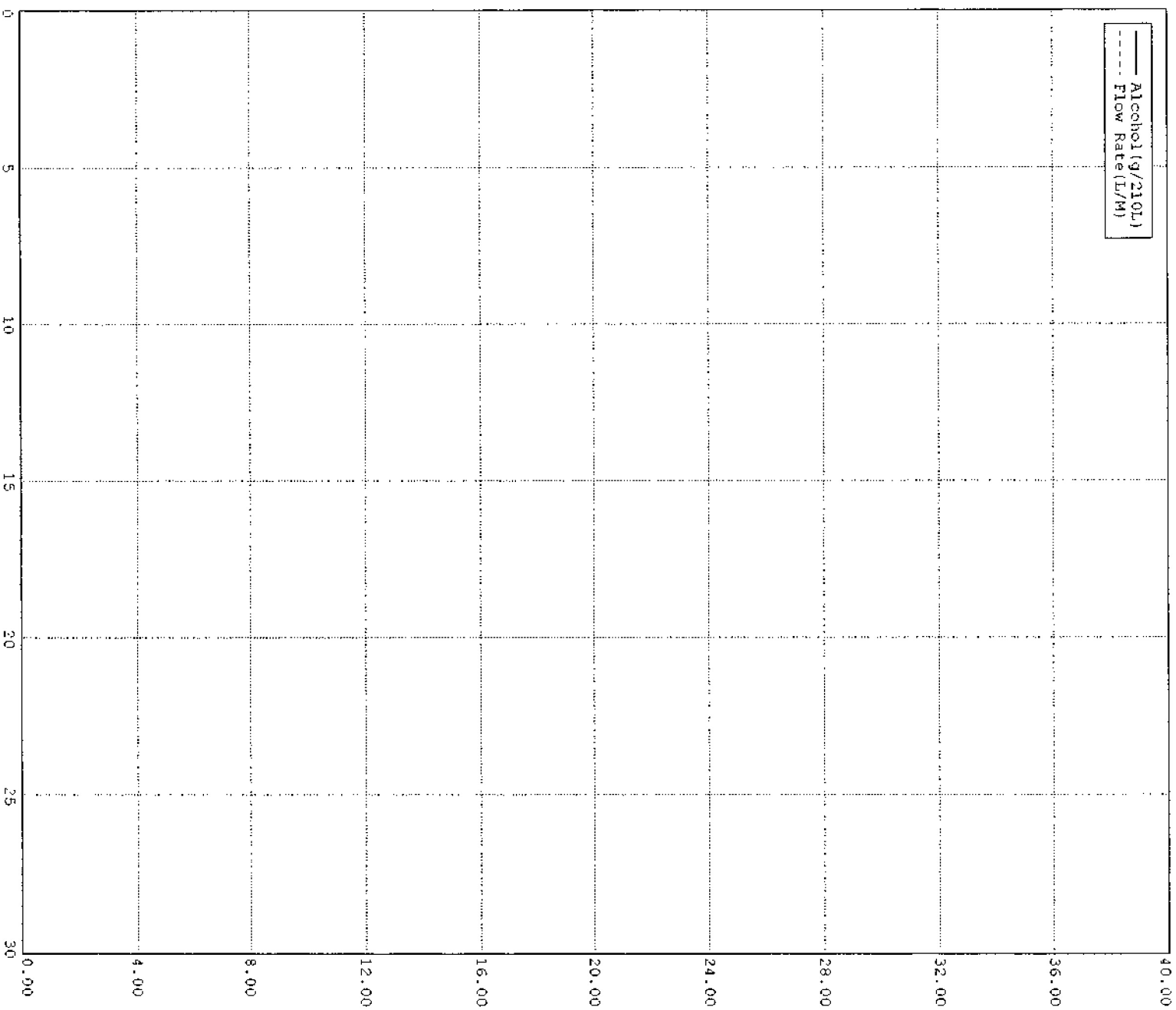
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.44: 0.078
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	15:20
BLANK TEST	0.000	15:20
INTERNAL STANDARD	VERIFIED	15:20
EXTERNAL STANDARD	0.080	15:21
BLANK TEST	0.000	15:21

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 06/20/2013
Time: 15:44:18

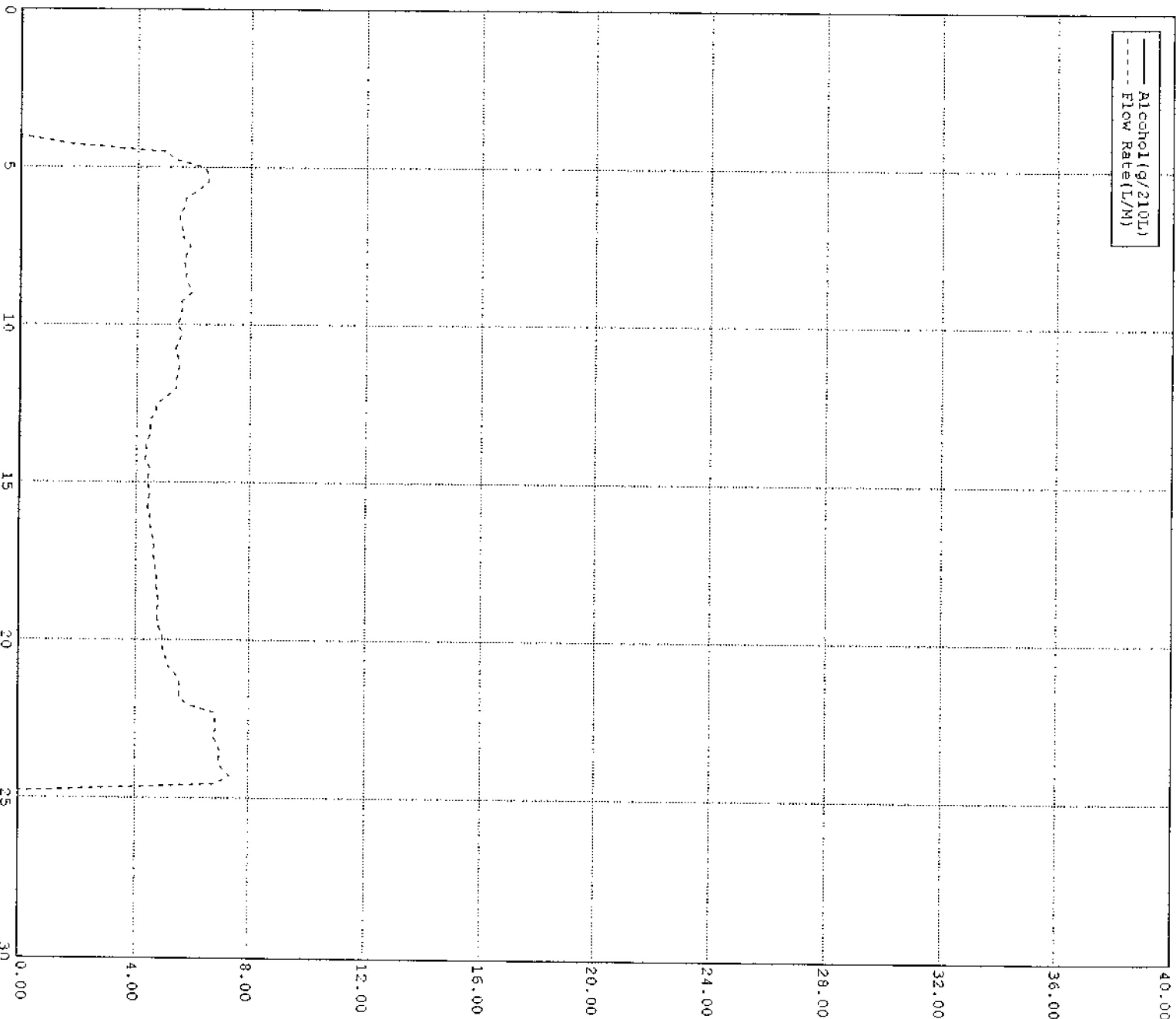
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.078
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	15:45
BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:45
EXTERNAL STANDARD	0.079	15:45
BLANK TEST	0.000	15:46
SUBJECT SAMPLE	0.000	15:47
BLANK TEST	0.000	15:48
EXTERNAL STANDARD	0.080	15:48
BLANK TEST	0.000	15:49



Final page for report

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11/19/2013