

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 2/2/2015
Effective: 2/2/2015

Version: DMCEF 2015 R0
Status: Active

Instrument S/N 100412 Analyst CTF Start Date 4/27/15

1. Diagnostic Test (attached)
2. Voltage Checks
 - a. Adjust voltages, if needed
 - i. Lamp (2.6V Maximum)
 - ii. Bias
 - 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)

3. Print Calibration Factors (attached)

4. Volume Test - Minimum 1.4 L (1.3L to 1.7L)

5. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf ILMO Lot 02915020A2 Exp 3/5/17
- ii. 0.040g/210L Mnf ILMO Lot 02915040A3 Exp 3/5/17
- iii. 0.080g/210L Mnf ILMO Lot 11313040A1 Exp 6/1/15
- iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17
- v. 0.200g/210L Mnf Guth Lot 13220 Exp 8/5/15
 1. Simulator S/N SD1200 Date Calibrated 1/20/15
- vi. 0.300g/210L Mnf Guth Lot 14270 Exp 12/3/16
 1. Simulator S/N DR6267 Date Calibrated 1/20/15

6. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference
- d. Exceeded attempts

- i. Acetone - Mnf Guth Lot 14110 Level 0.100 Exp 5/1/16
 1. Simulator S/N DR4162 Date Calibrated 1/19/15
- ii. Isopropanol - Mnf Guth Lot 14110 Level 0.100 Exp 5/1/16
 1. Simulator S/N DR4163 Date Calibrated 1/19/15
- iii. Negative Control - Mnf Guth Lot 14030 Level 0.100 Exp 1/20/16
 1. Simulator S/N DR4178 Date Calibrated 1/19/15

e. RFI

7. Verify stylus is calibrated
8. Reset Options
9. Clear Memory
10. Verification of Calibration
11. Non-Drinking Subject Test (attached)
12. Upload
13. Remove tank prior to shut down

End Date 4/28/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100412

Date: 04/27/2015
Time: 10:30:09

VERSIONS
DMT: 3.00
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 45.8°C PASSED

PUMP INFO

Flow Rate = 5.184 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: 100412

Date: 04/27/2015
Time: 10:36 AM

Temperatures (°C)

Sample Cell: 49.6°C
Breath Tube: 45.9°C

Current Barometer 29.4 in
Volume (Ltr) 1.50

Settings

Lamp: 1.81 V
Bias: 81 V
Cooler: 1.71 V
Chopper: 532 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.012 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100412

Date: 09/29/2012
Time: 10:04:42

OPERATOR NAME:
T T T
CERTIFICATE #: T

LOT #: 09
BOTTLE #: 09
EXPIRATION: 09/09/2013

Ca = 0.0980
CAL = 0.991236 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0045 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.1035 0.0500 <= Xq < 0.2000
a21 = 1.157112 1.050 <= a21 < 1.300
a31 = 0.558563 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100412

Date: 04/27/2015
Time: 10:55:52

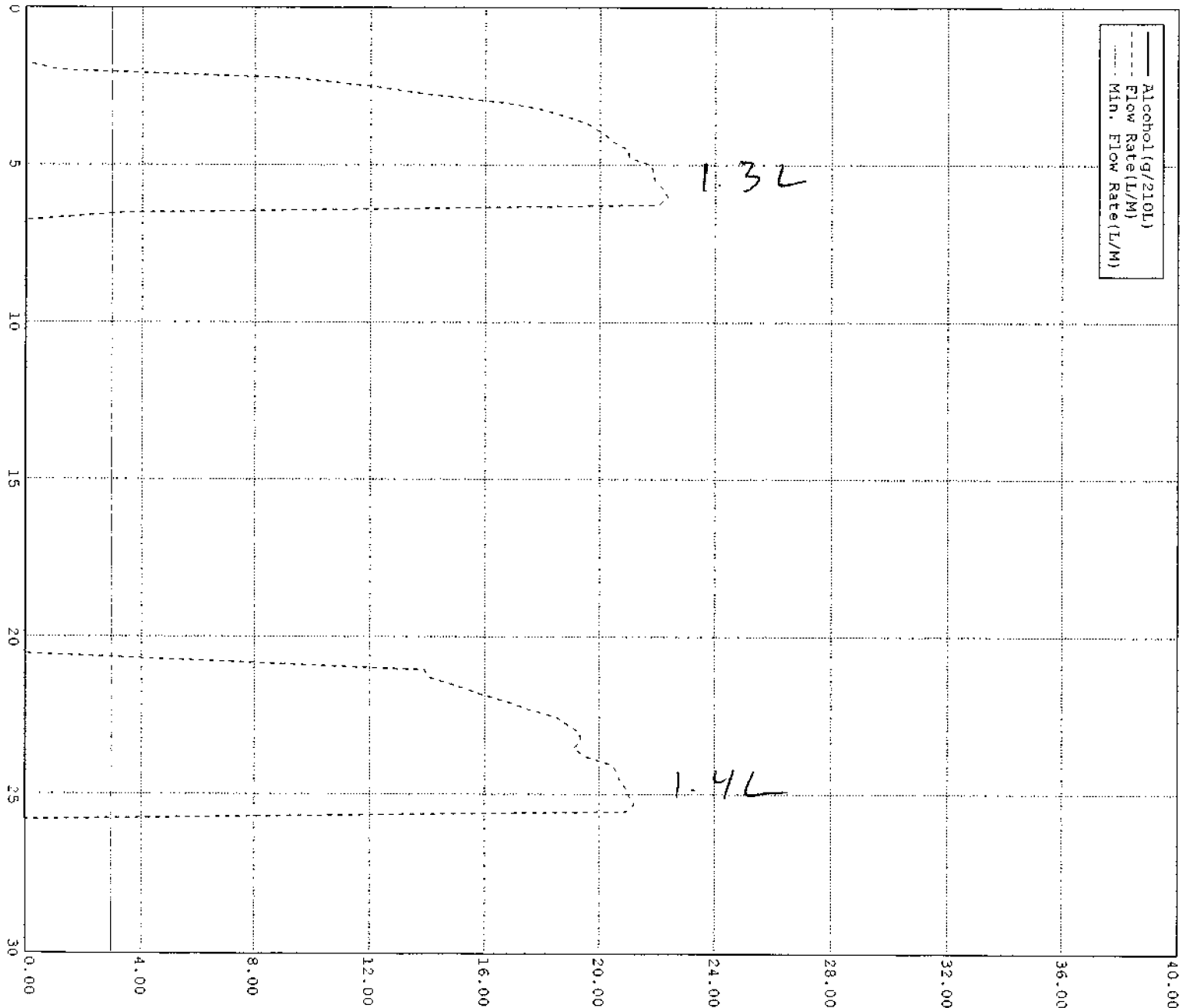
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	11:04
BLANK TEST	0.000	11:04
INTERNAL STANDARD	VERIFIED	11:04
EXTERNAL STANDARD	0.081	11:04
BLANK TEST	0.000	11:05
SUBJECT SAMPLE (Vol=1.51L)	0.000	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.081	11:07
BLANK TEST	0.000	11:07



LINEARITY CHECK

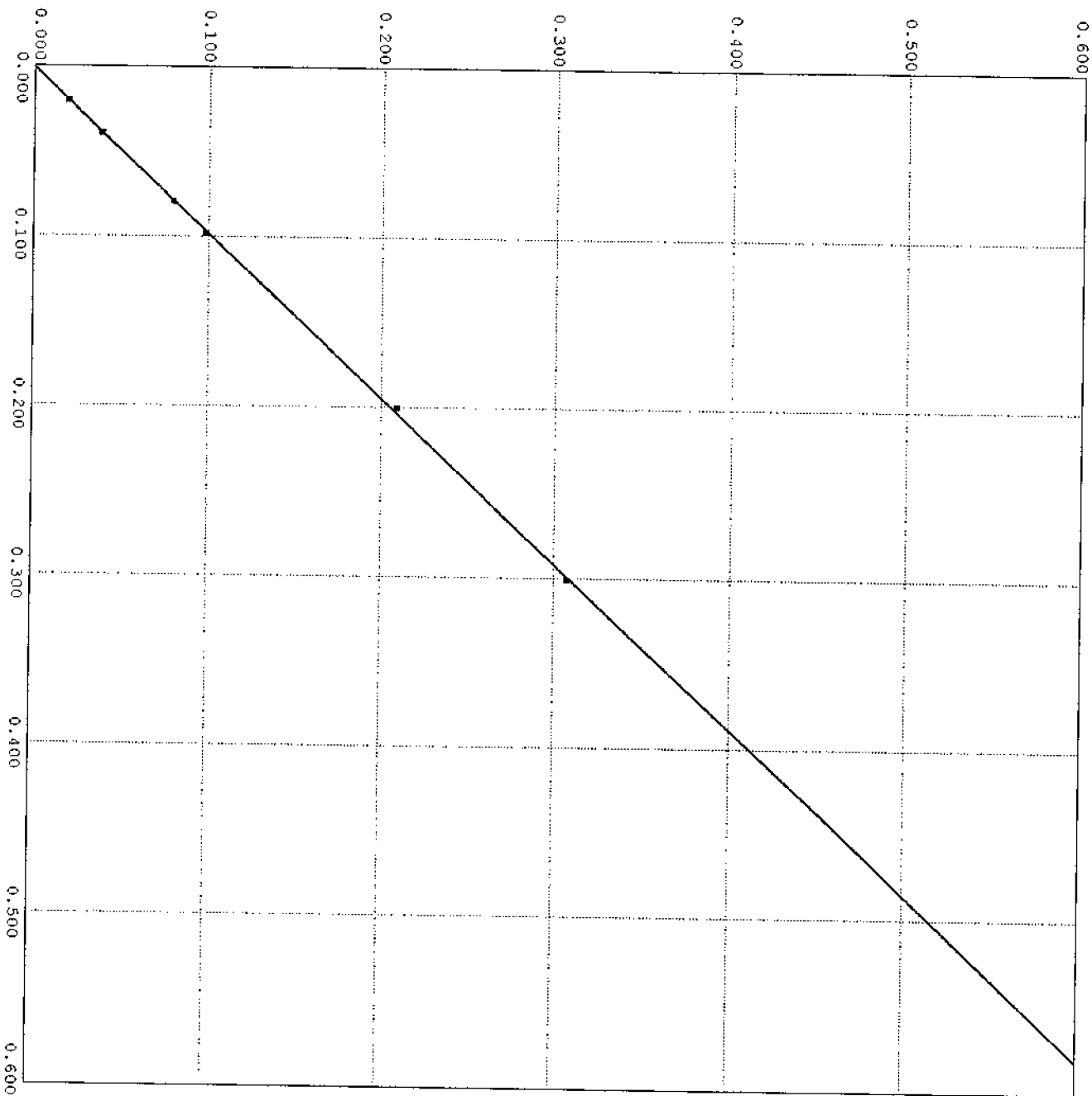
Alaska Department of Public Safety
 DATAMASTER dmt: 100412

Date: 04/27/2015
 Time: 13:28:33

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.039	0.0398	0.0004
0.079	0.0808	0.0004
0.098	0.0992	0.0004
0.200	0.2098	0.0004
0.300	0.3080	0.0007

SLOPE = 1.034460
 R² = 0.999709



LINEARITY CHECK: Control Test 1

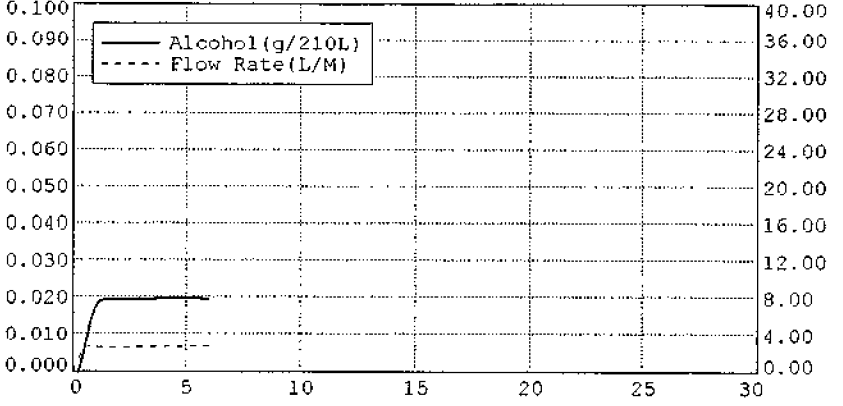
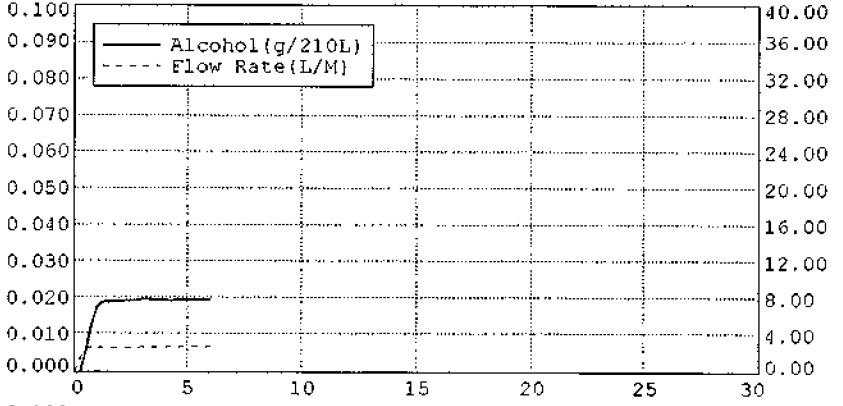
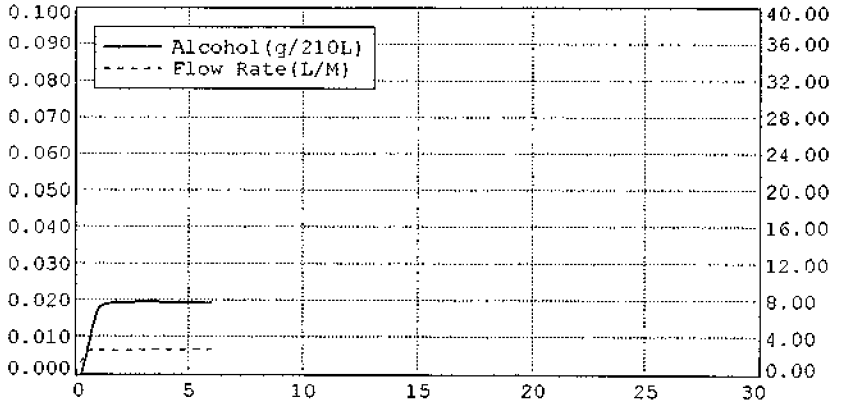
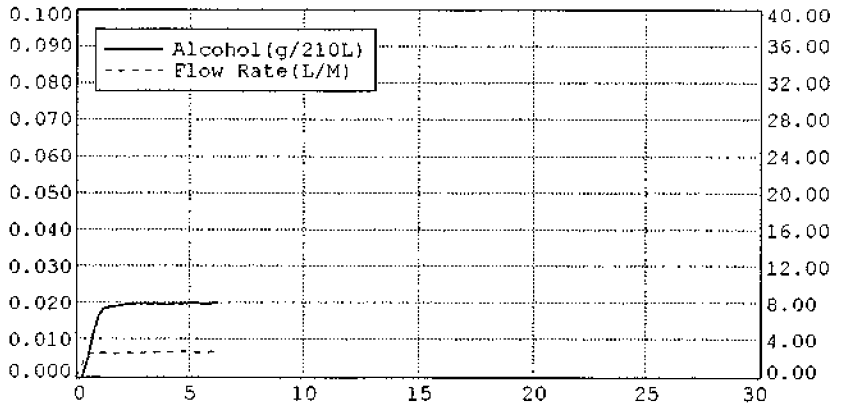
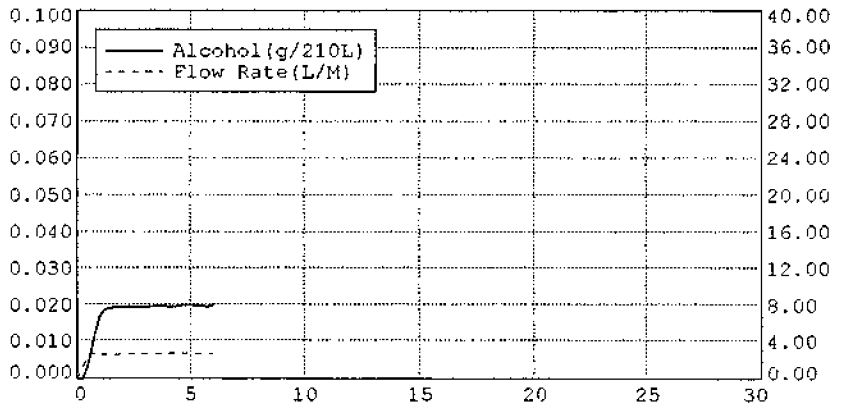
Alaska Department of Public Safety
 DATAMASTER dmt: 100412

Date: 04/27/2015
 Time: 13:28:34

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 29.46: 0.020
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 891 psi

BLANK TEST	0.000	13:29
INTERNAL STANDARD	VERIFIED	13:29
EXTERNAL STANDARD	0.020	13:30
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.021	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.020	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.020	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.020	13:34
BLANK TEST	0.000	13:35

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100412

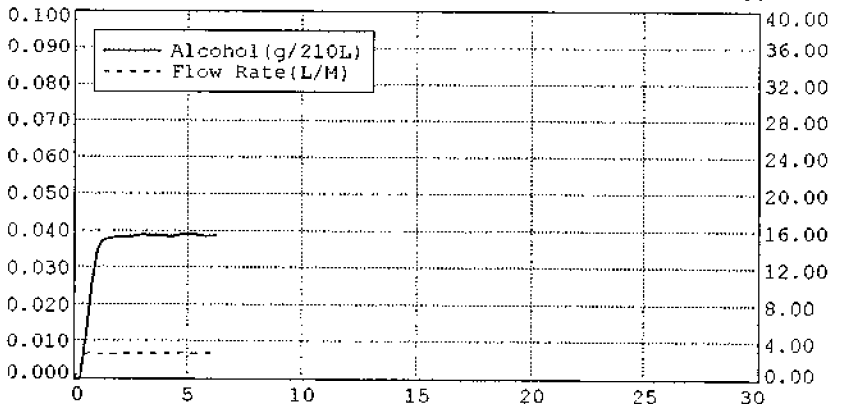
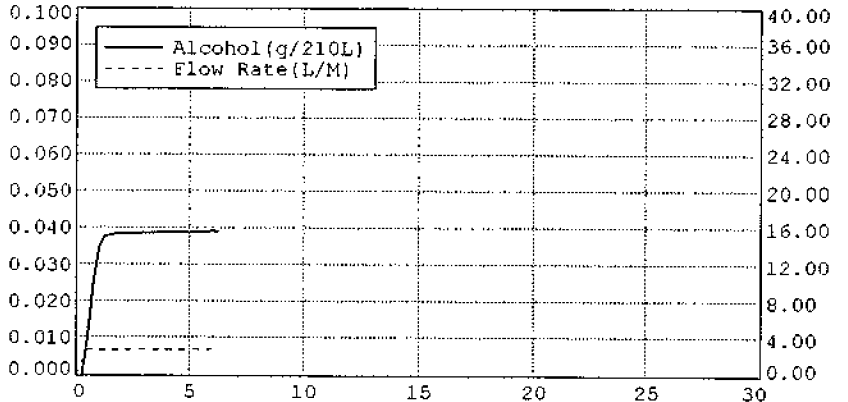
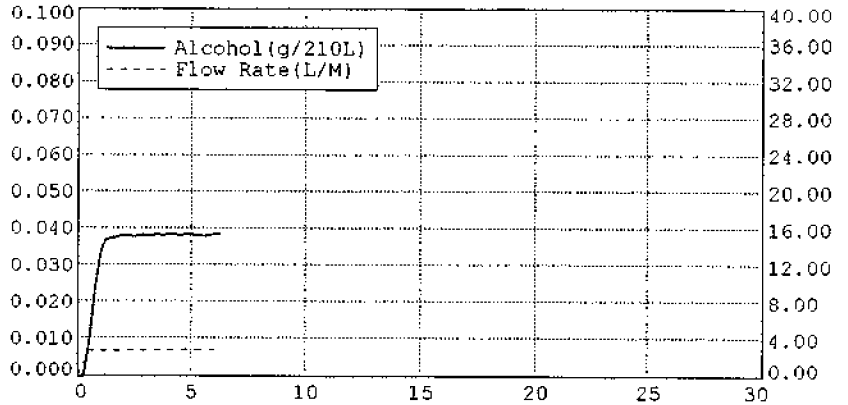
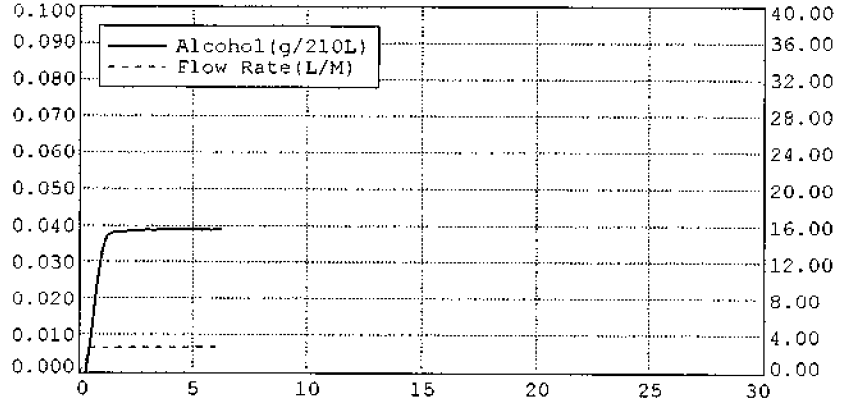
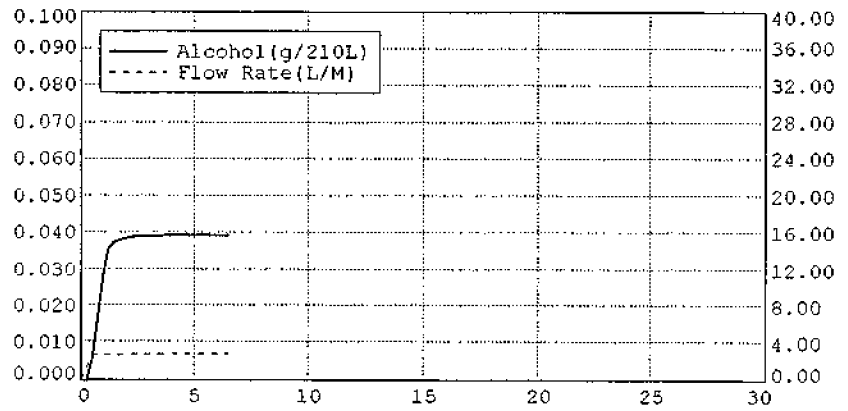
Date: 04/27/2015
 Time: 13:36:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.45: 0.039
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 956 psi

BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
EXTERNAL STANDARD	0.040	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.040	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.039	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.040	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.040	13:42
BLANK TEST	0.000	13:43

Average = 0.0398
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100412

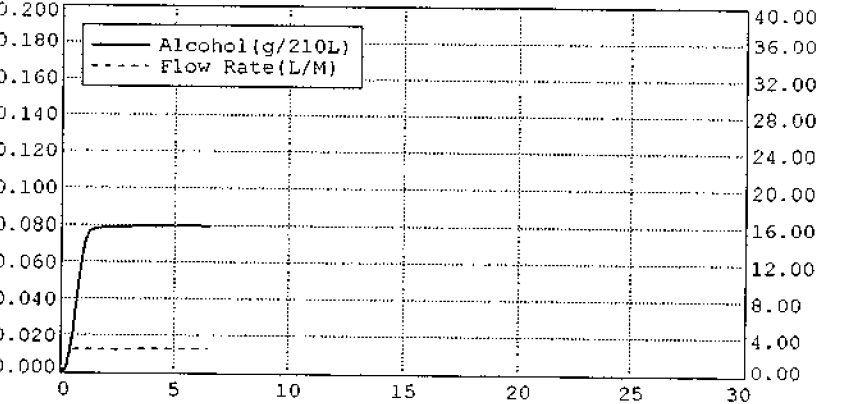
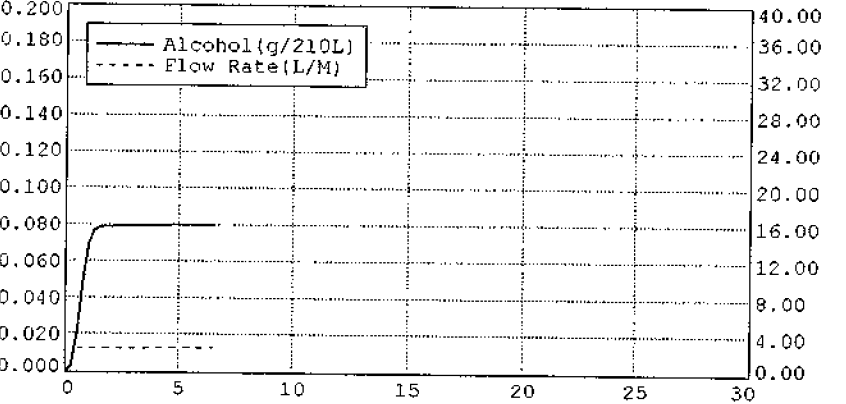
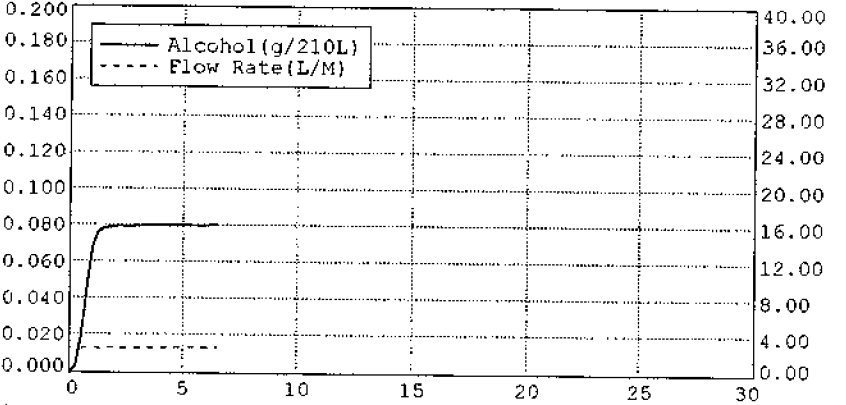
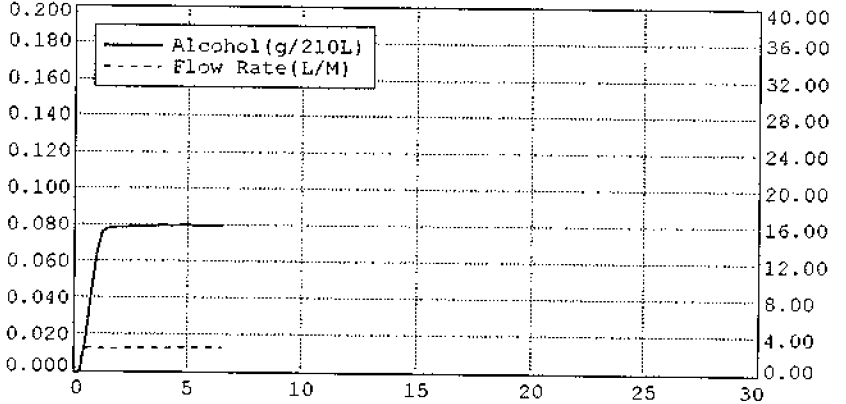
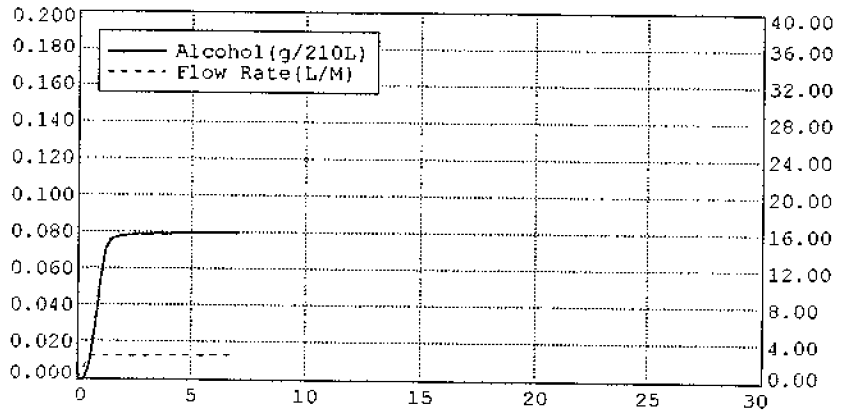
Date: 04/27/2015
 Time: 13:46:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.46: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015
 TANK PRESSURE: 486 psi

BLANK TEST	0.000	13:48
INTERNAL STANDARD	VERIFIED	13:48
EXTERNAL STANDARD	0.081	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.081	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.080	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.081	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.081	13:52
BLANK TEST	0.000	13:53

Average = 0.0808
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER gmt: 100412

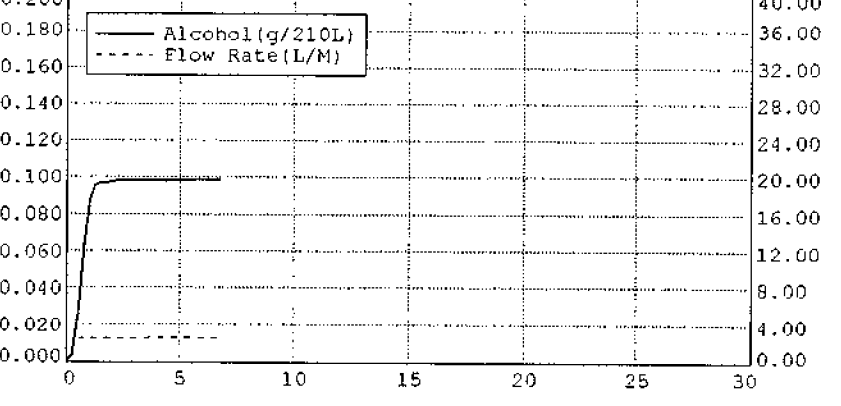
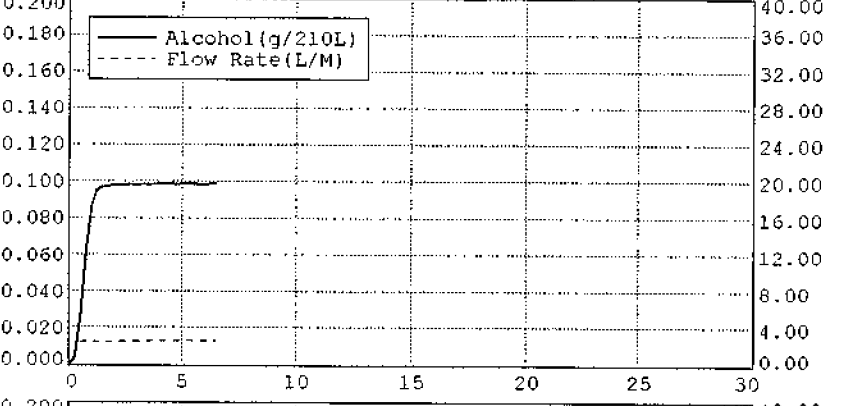
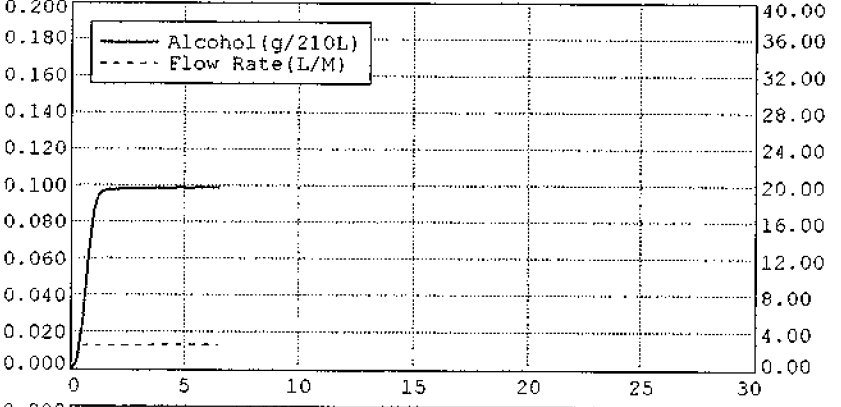
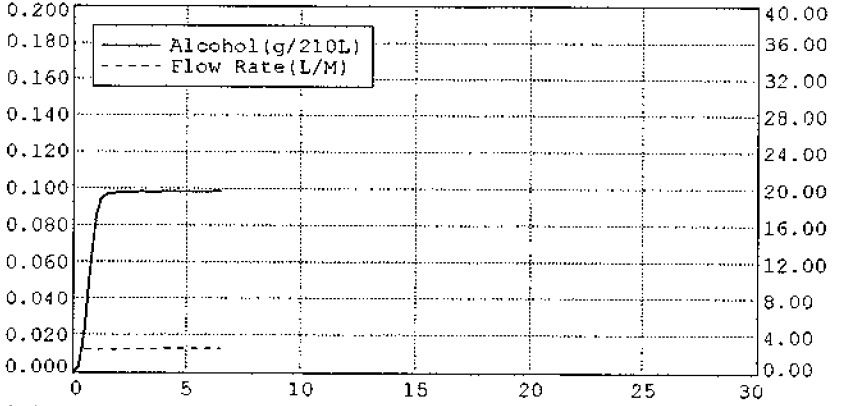
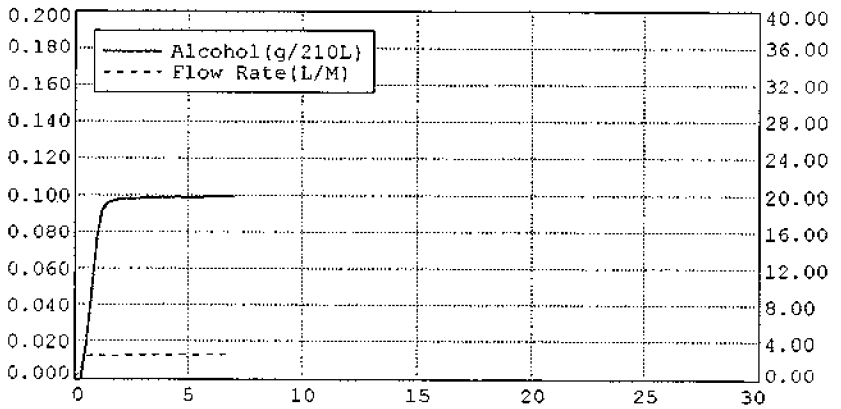
Date: 04/27/2015
 Time: 14:01:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.46: 0.098
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 895 psi

BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.100	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.099	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.099	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.099	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.099	14:07
BLANK TEST	0.000	14:07

Average = 0.0992
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100412

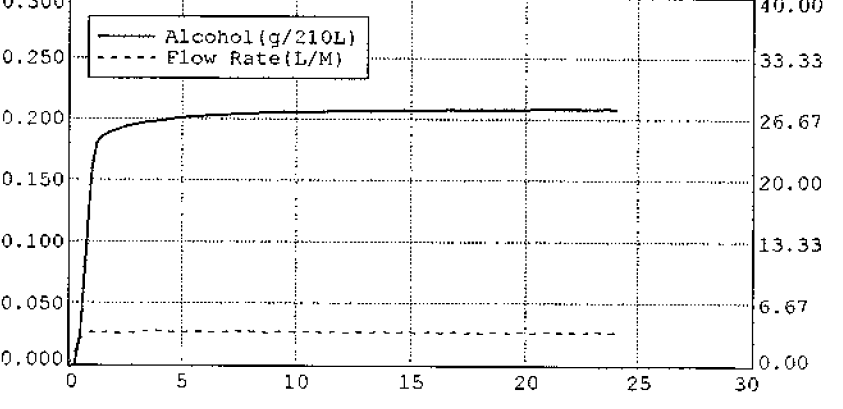
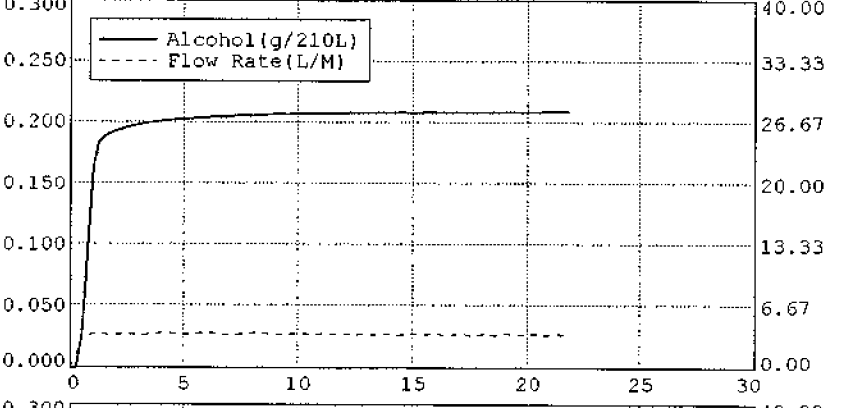
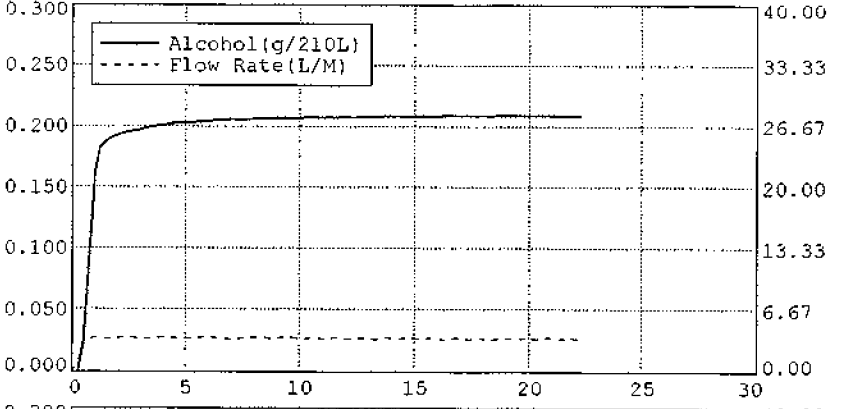
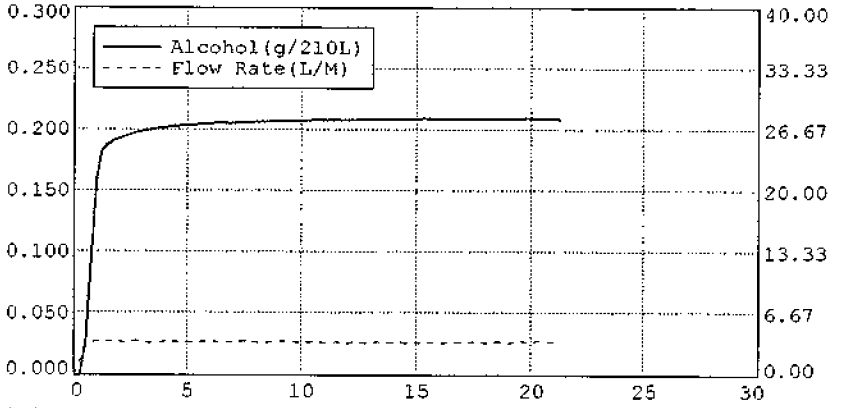
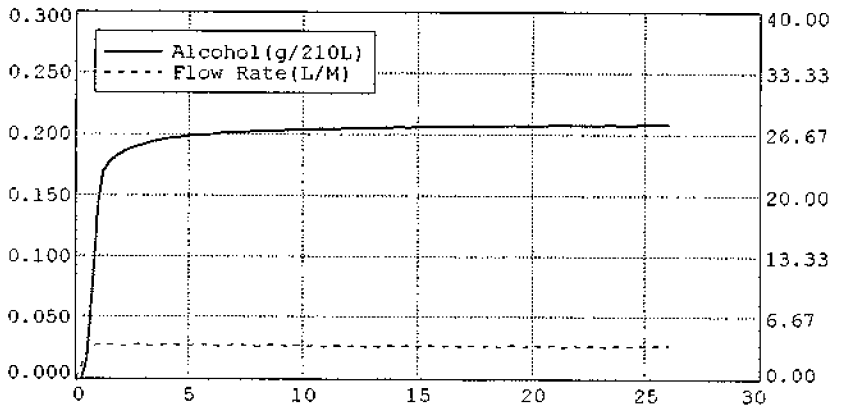
Date: 04/27/2015
 Time: 14:14:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 13220
 EXPIRATION: 08/05/2015

BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:15
EXTERNAL STANDARD	0.209	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.210	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.210	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.210	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.210	14:22
BLANK TEST	0.000	14:23

Average = 0.2098
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100412

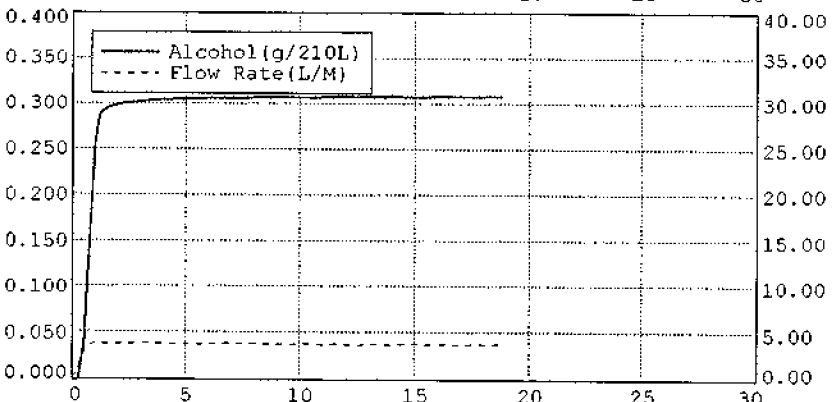
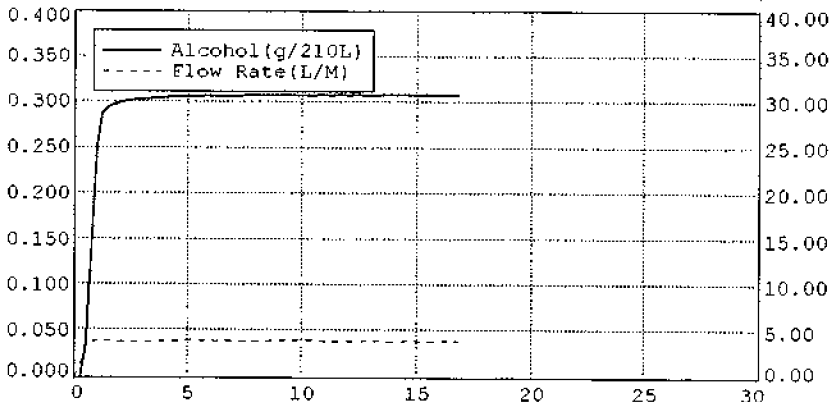
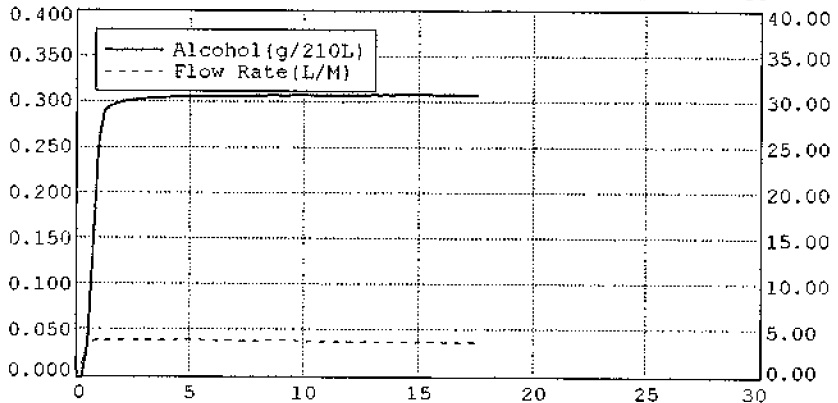
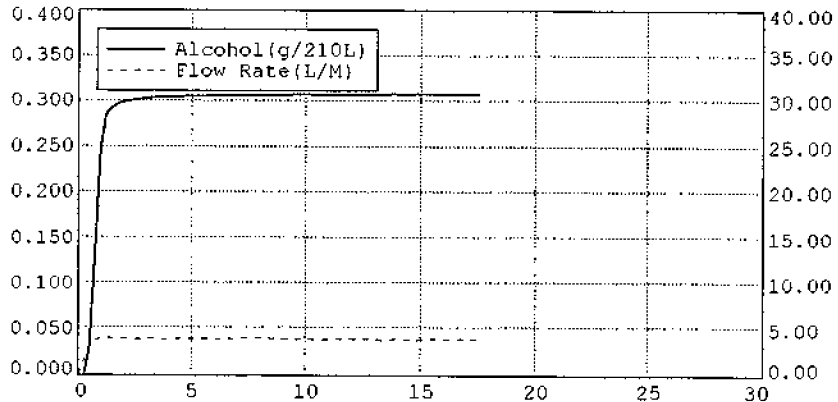
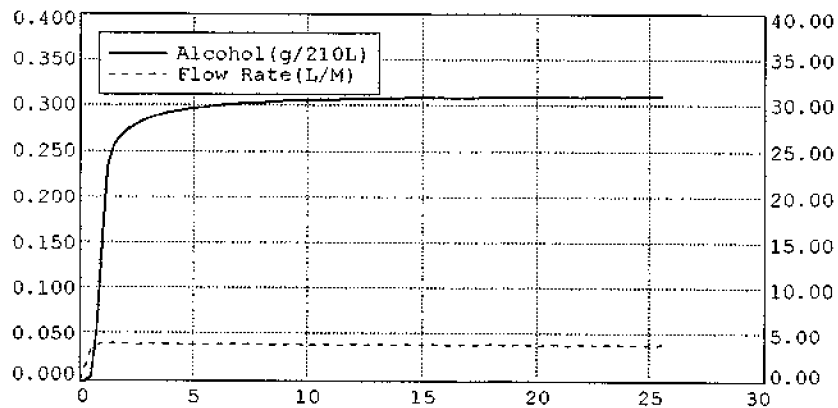
Date: 04/27/2015
 Time: 14:24:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 14270
 EXPIRATION: 12/02/2016

BLANK TEST	0.000	14:25
INTERNAL STANDARD	VERIFIED	14:25
EXTERNAL STANDARD	0.309	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.307	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.308	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.308	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.308	14:31
BLANK TEST	0.000	14:32

Average = 0.3080
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100412

Date: 04/27/2015
 Time: 14:40:14

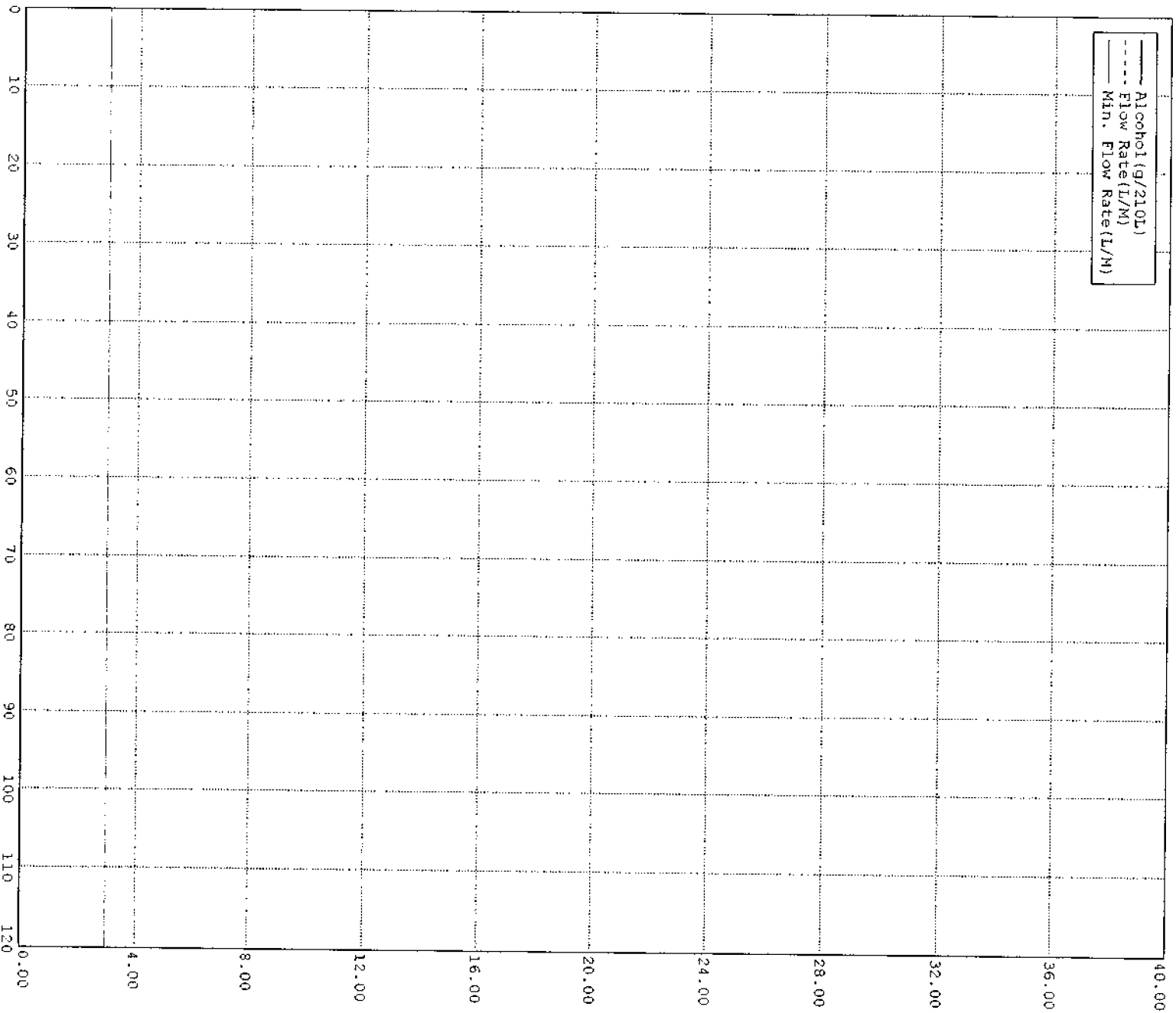
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:41
BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.080	14:41
BLANK TEST	0.000	14:42
SUBJECT SAMPLE	INCOMPLETE	14:44



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100412

Date: 04/27/2015
 Time: 14:49:55

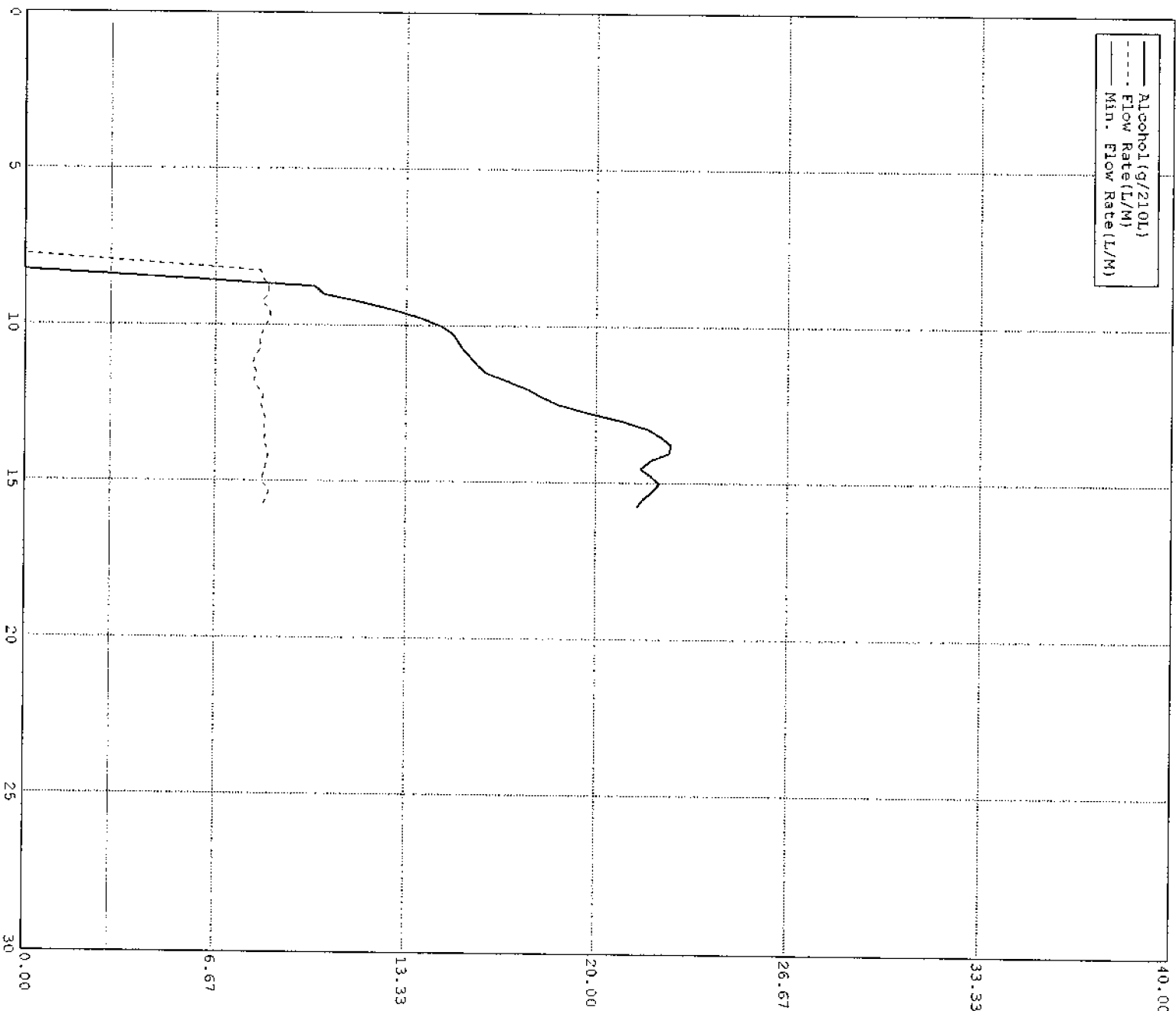
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MOUTH ETOH
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.45: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:53
BLANK TEST	0.000	14:53
INTERNAL STANDARD	VERIFIED	14:53
EXTERNAL STANDARD	0.081	14:54
BLANK TEST	0.000	14:55
SUBJECT SAMPLE	INVALID	14:55



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100412

Date: 04/27/2015
Time: 15:34:44

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

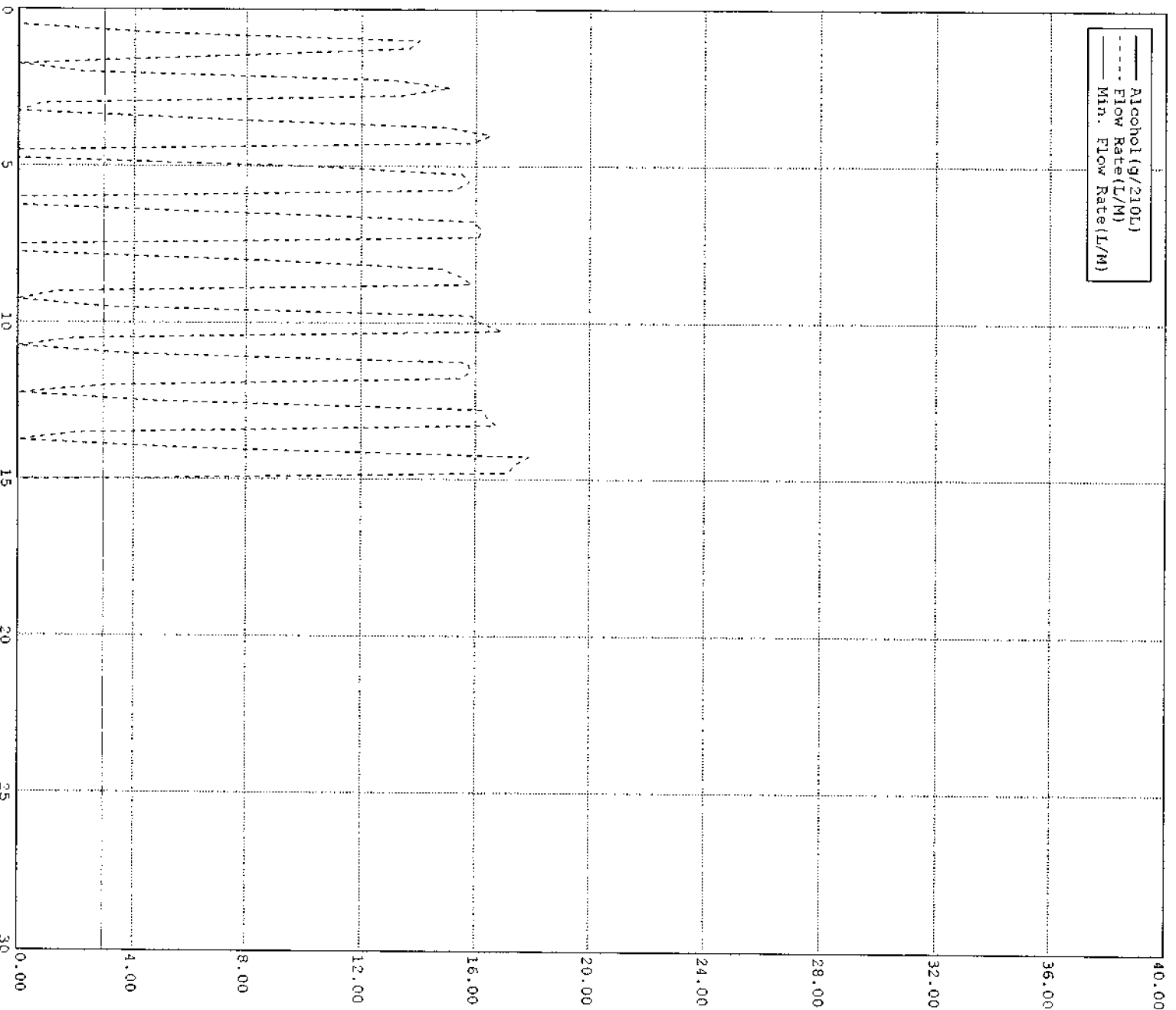
OPERATOR NAME:
EXCEEDED ATTEMPTS
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.44: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:43
BLANK TEST	0.000	15:43
INTERNAL STANDARD	VERIFIED	15:43
EXTERNAL STANDARD	0.082	15:43
BLANK TEST	0.000	15:44
SUBJECT SAMPLE	XXX	15:45

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100412

Date: 04/27/2015
Time: 14:57:48

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE ACETONE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

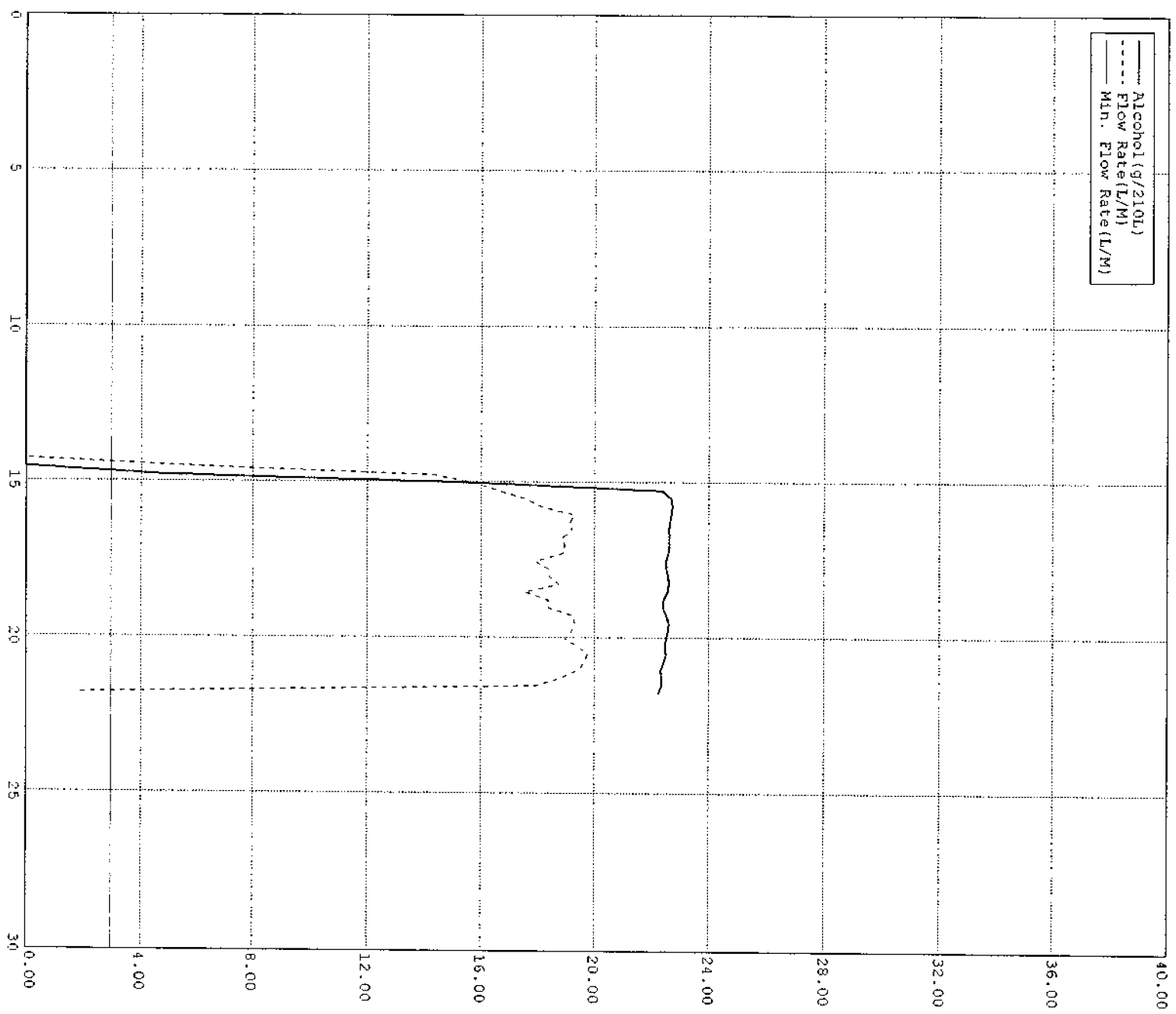
DIAGNOSTIC CHECK
BLANK TEST PASSED 15:01
INTERNAL STANDARD VERIFIED 15:02
Xq = 0.106 (2.12%)
EXTERNAL STANDARD 0.081 15:02
X[1] = 0.0809 (-0.0001) (0.0036)
BLANK TEST 0.000 15:03
SUBJECT SAMPLE XXX 15:03
X[1] = 0.1114 (-0.0153) (0.0050)

Interference Detected

Filter 2 Avg. = -0.0014

Filter 3 Avg. = 0.0031

CTF 4/28/15



SUBJECT TEST

Alaska Department of Public Safety
DAPMASTER dnt: 100412

Date: 04/27/2015
Time: 15:06:32

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

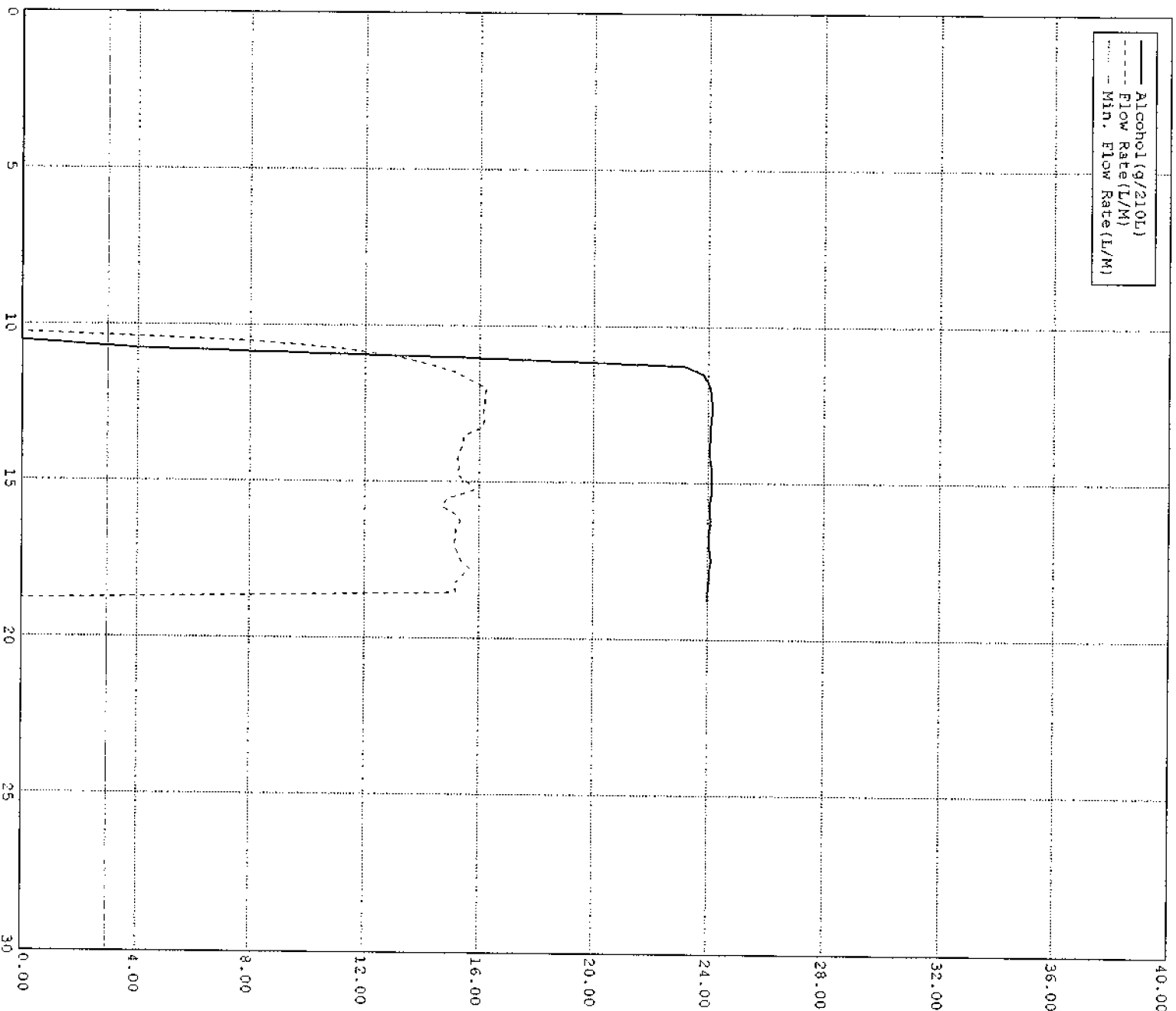
OPERATOR NAME:
INTERFERENCE IPA
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK
BLANK TEST PASSED 15:10
INTERNAL STANDARD 0.000 15:10
X9 = 0.105 (1.27%) VERIFIED 15:10
EXTERNAL STANDARD 0.081 15:11
X[1] = 0.0806 (-0.0011) (0.0034)
BLANK TEST 0.000 15:11
SUBJECT SAMPLE XXX 15:12
X[1] = 0.1202 (-0.0272) (0.0022)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100412

Date: 04/27/2015
Time: 15:14:40

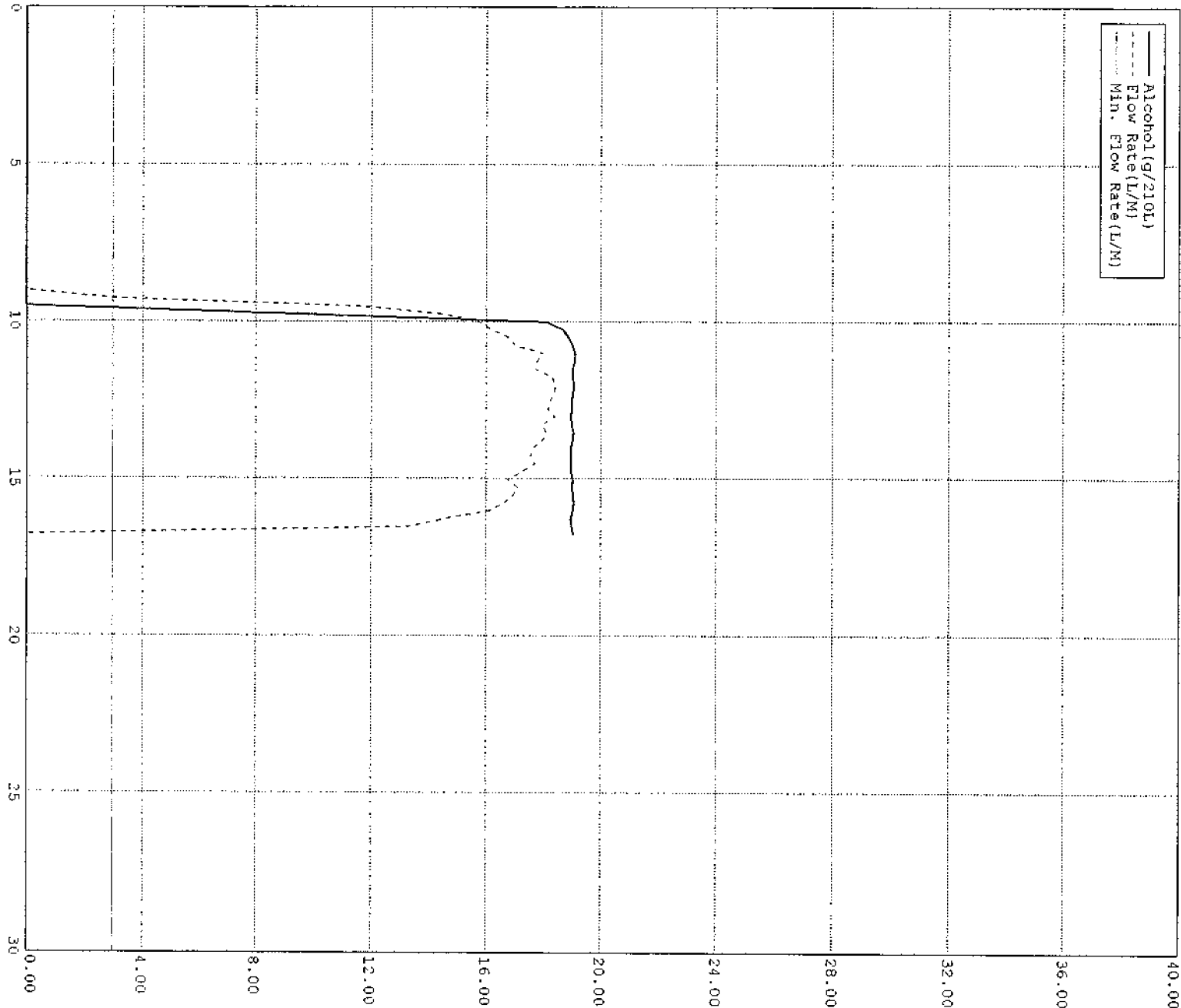
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE NEGATIVE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:19
BLANK TEST	0.000	15:19
INTERNAL STANDARD	VERIFIED	15:20
Xq = 0.106 (2.21%)		
EXTERNAL STANDARD	0.080	15:20
X[1] = 0.0801 (-0.0023)	(0.0023)	
BLANK TEST	0.000	15:21
SUBJECT SAMPLE (Vol=2.05L)	0.095	15:21
X[1] = 0.0953 (-0.0027)	(0.0020)	
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.081	15:22
X[1] = 0.0807 (-0.0020)	(0.0031)	
BLANK TEST	0.000	15:23



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100412

Date: 04/27/2015
 Time: 15:46:48

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

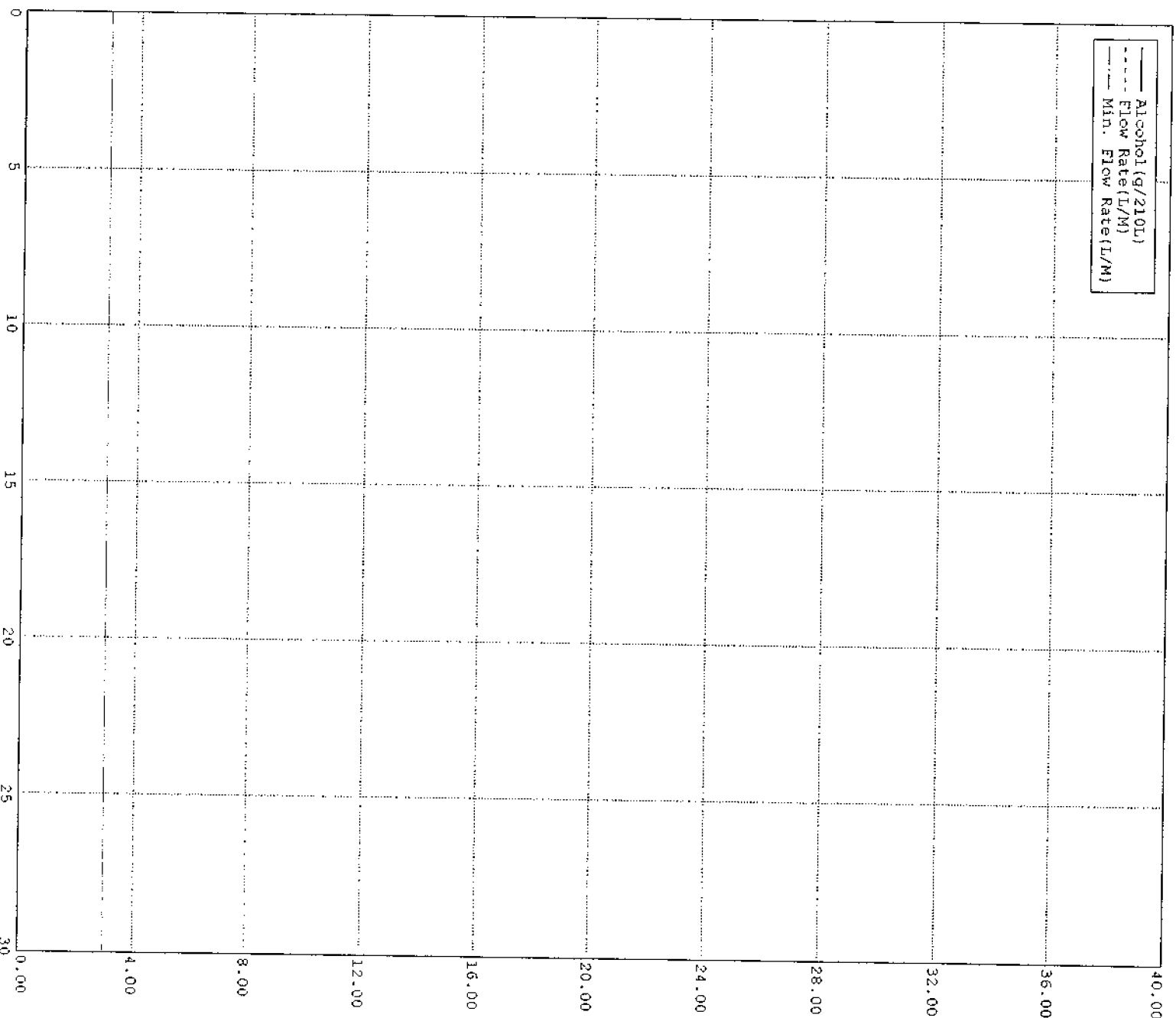
OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.44: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:47
BLANK TEST	0.000	15:48
INTERNAL STANDARD	VERIFIED	15:48
EXTERNAL STANDARD	0.082	15:48
BLANK TEST	0.000	15:49

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100412

Date: 04/28/2015
Time: 08:51:35

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 29.25: 0.078
LOF #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	08:52
BLANK TEST	0.000	08:52
INTERNAL STANDARD	VERIFIED	08:52
EXTERNAL STANDARD	0.082	08:53
BLANK TEST	0.000	08:54
SUBJECT SAMPLE (Vol=2.83L)	0.000	08:54
BLANK TEST	0.000	08:55
EXTERNAL STANDARD	0.081	08:55
BLANK TEST	0.000	08:56

