

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 100684 Analyst CTF Start Date 2/18/15

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 1.6 L (1.3L to 1.7L)

5. 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 11313080A1 Exp 6/1/15
- iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15
- v. 0.200g/210L Mnf Guth Lot 13220 Exp 8/5/15
 1. Simulator S/N DR5298 Date Calibrated 2/19/14
- vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15
 1. Simulator S/N SD1177 Date Calibrated 2/20/14

6. Functional Tests (attached)

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

- i. Acetone - Mnf Guth Lot 14030 Level 0.100 Exp 1/20/16
 1. Simulator S/N SD1198 Date Calibrated 2/20/14
- ii. Isopropanol - Mnf Guth Lot 14030 Level 0.100 Exp 1/20/16
 1. Simulator S/N SD1202 Date Calibrated 2/20/14
- iii. Negative Control - Mnf Guth Lot 14030 Level 0.100 Exp 1/20/16
 1. Simulator S/N DR4161 Date Calibrated 2/19/14

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 2/19/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 02/18/2015
Time: 08:56:39

VERSIONS
DMT: 3.00
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C PASSED
Breath Tube = 45.1°C PASSED

PUMP INFO
Flow Rate = 4.126 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: 100684

Date: 02/18/2015

Time: 9:24 AM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 45.7°C

Current Barometer 29.6 in

Volume (Ltr) 1.43

Settings

Lamp: 1.85 V

Bias: 80 V

Cooler: 1.65 V

Chopper: 554 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.010 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 10/24/2011
Time: 12:32:44

Ca = 0.0990
CAL = 1.010229 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0040 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0902 0.0500 <= Xq < 0.2000
a21 = 1.170442 1.050 <= a21 < 1.300
a31 = 0.530906 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAWASTER dmt: 100684

Date: 02/18/2015
Time: 09:44:22

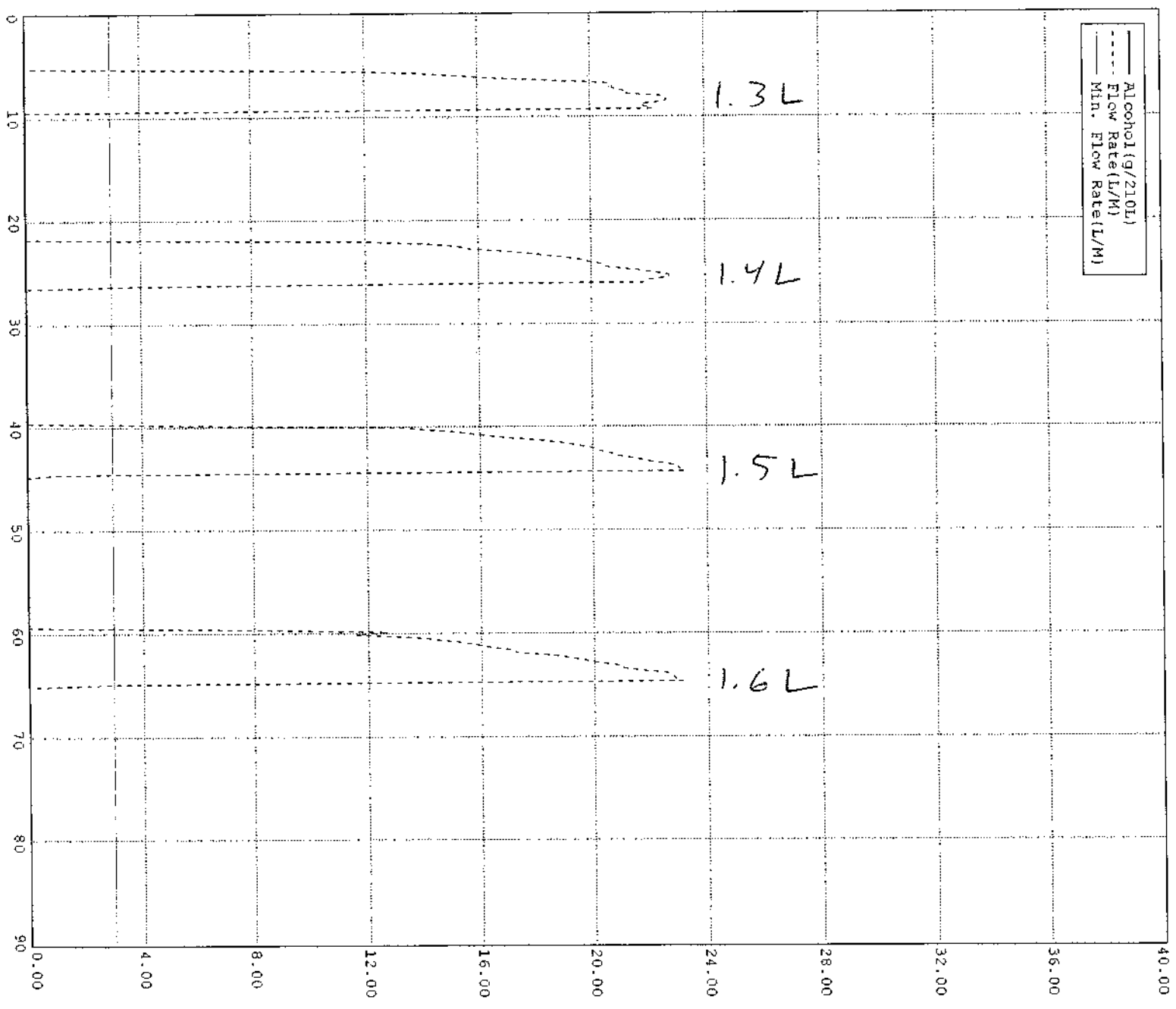
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: 11313080A1
EXPIRATION: 06/01/2015

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	09:45
BLANK TEST	0.000	09:45
INTERNAL STANDARD	VERIFIED	09:45
EXTERNAL STANDARD	0.080	09:45
BLANK TEST	0.000	09:46
BLANK TEST	0.000	09:47
SUBJECT SAMPLE (Vol=1.58L)	0.000	09:48
BLANK TEST	0.081	09:49
EXTERNAL STANDARD	0.000	09:49
BLANK TEST	0.000	09:49



LINEARITY CHECK

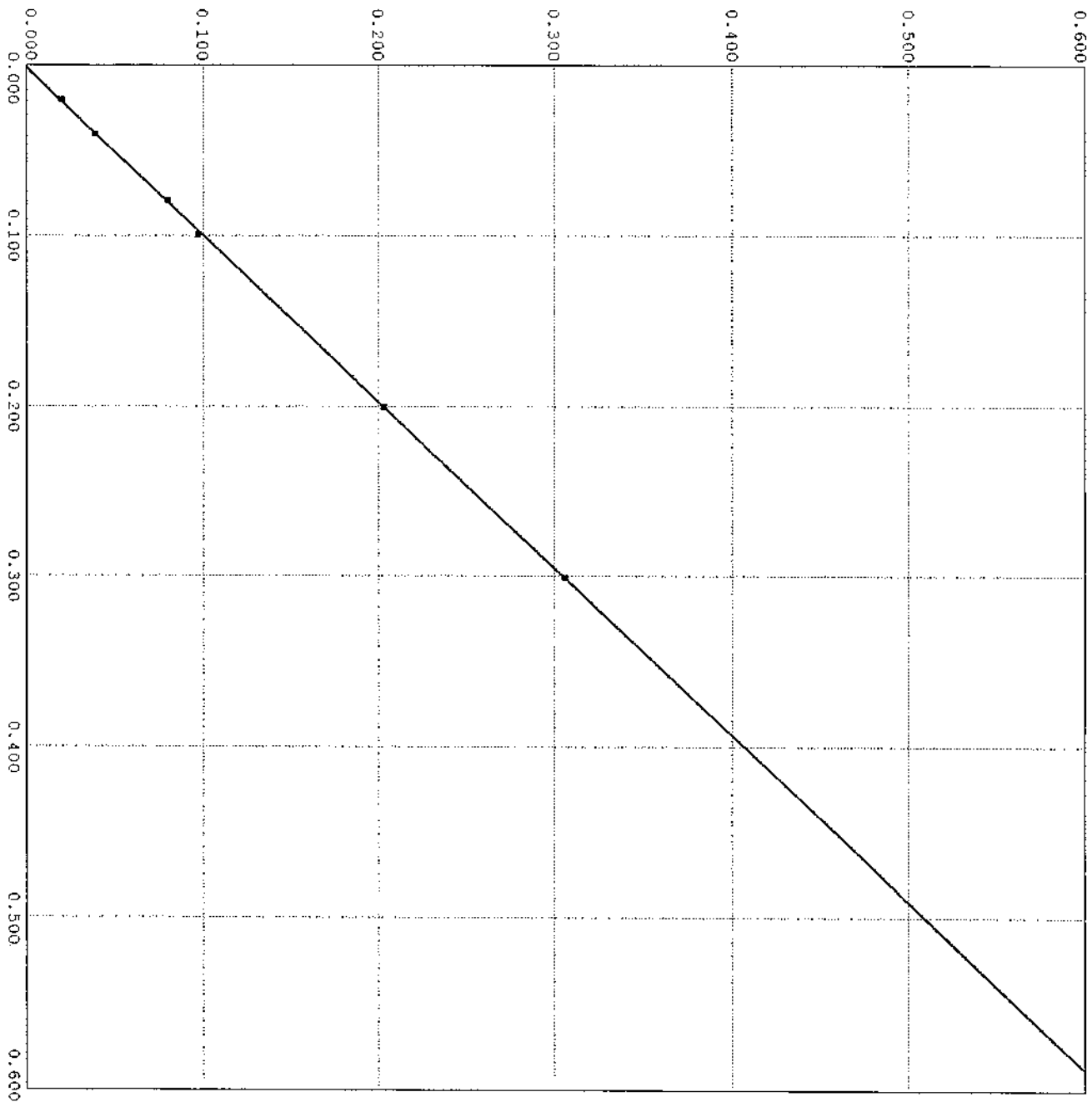
Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 02/18/2015
Time: 12:48:44

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.020	0.0208	0.0004
0.040	0.0400	0.0000
0.079	0.0808	0.0004
0.099	0.0980	0.0000
0.200	0.2038	0.0004
0.300	0.3066	0.0005

SLOPE = 1.023105
R² = 0.999861



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

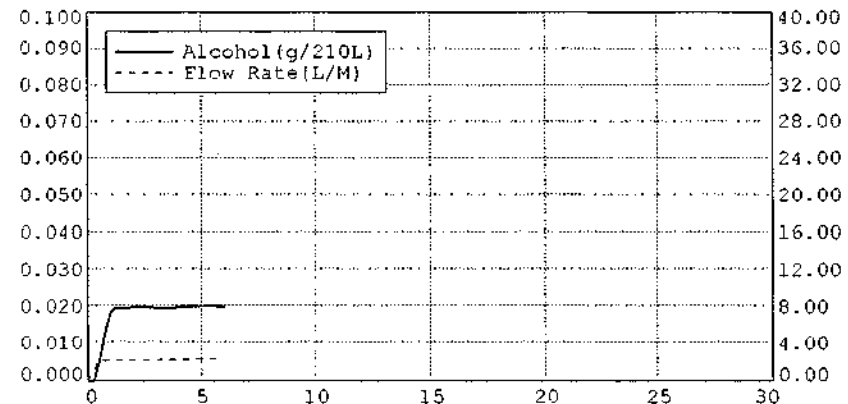
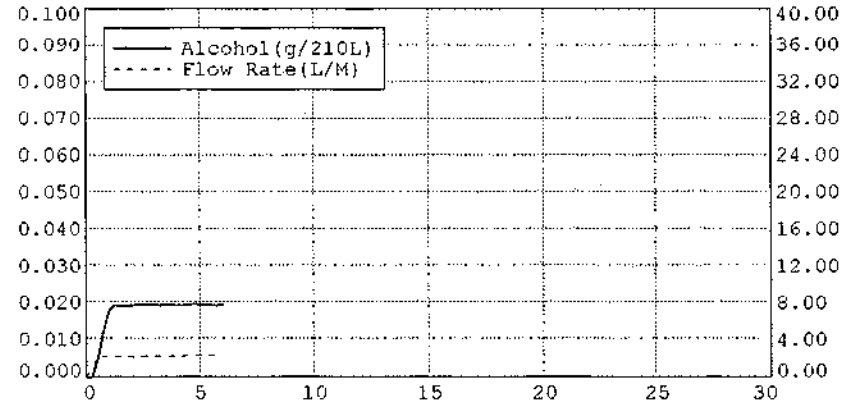
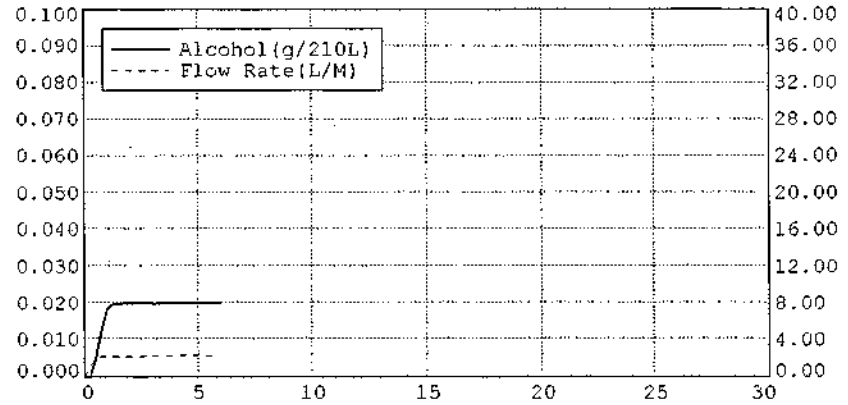
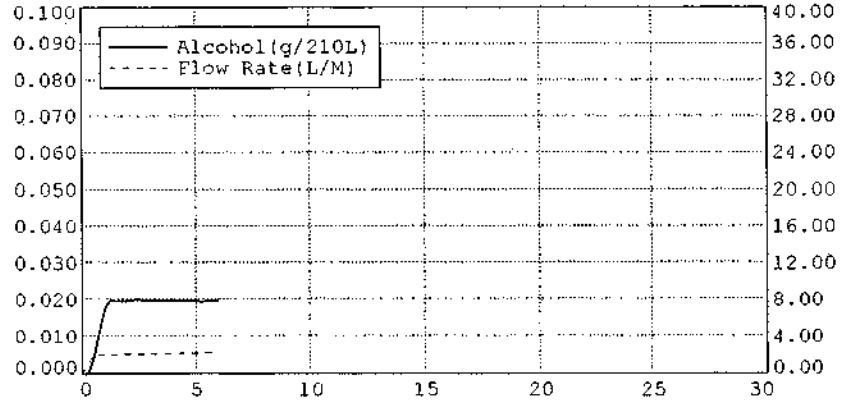
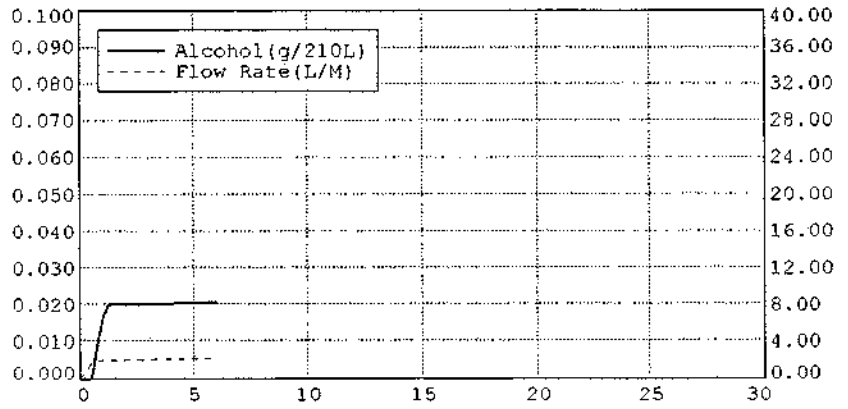
Date: 02/18/2015
 Time: 12:48:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.62: 0.020
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015
 TANK PRESSURE: 369 psi

BLANK TEST	0.000	12:50
INTERNAL STANDARD	VERIFIED	12:50
EXTERNAL STANDARD	0.021	12:50
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.021	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.021	12:52
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.020	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.021	12:54
BLANK TEST	0.000	12:55

Average = 0.0208
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100684

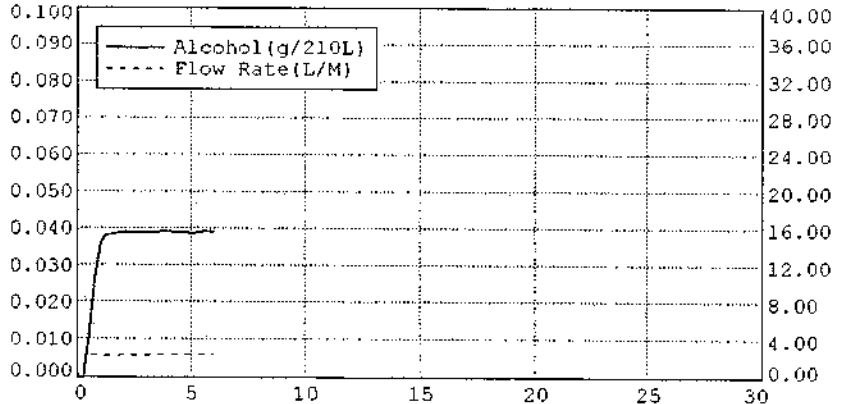
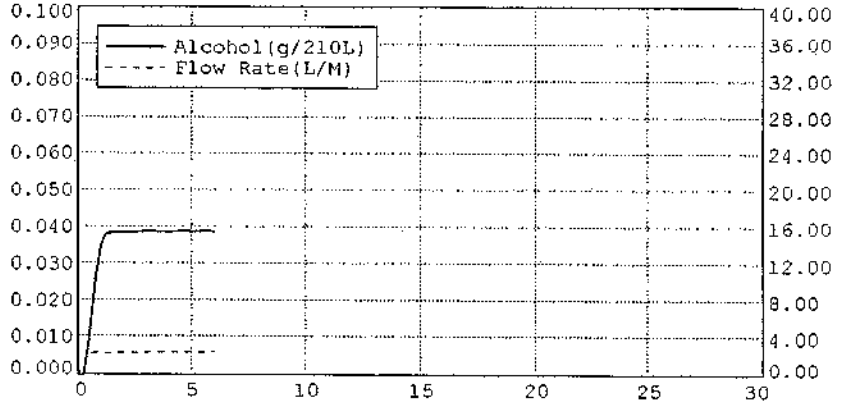
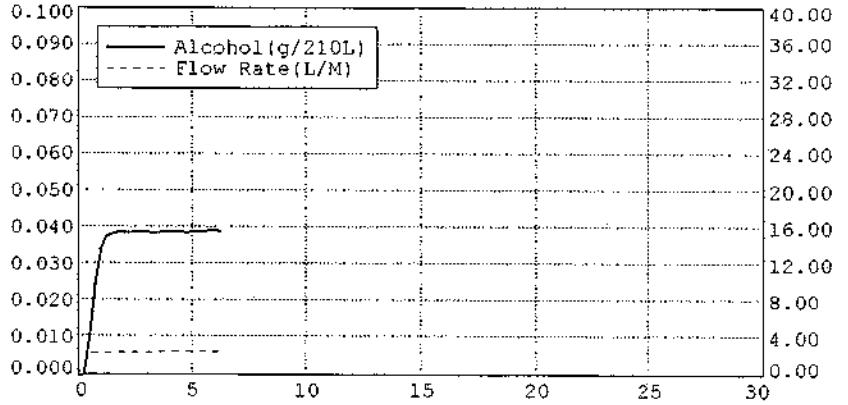
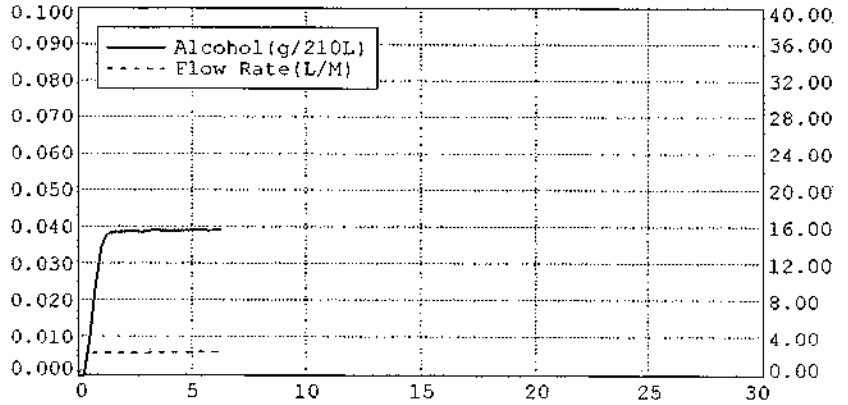
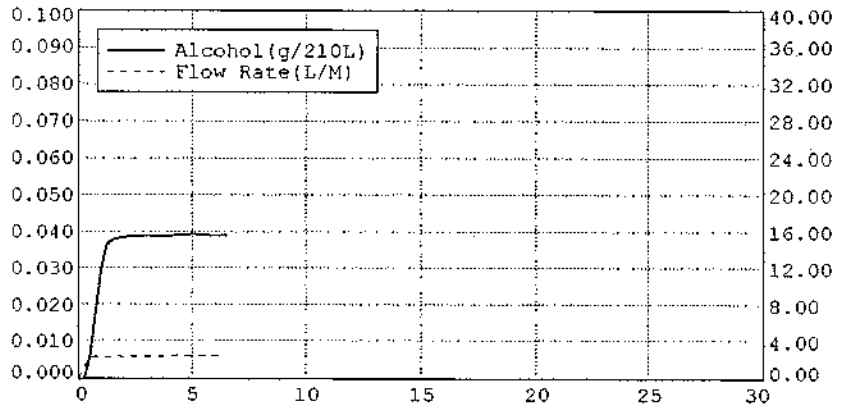
Date: 02/18/2015
Time: 12:56:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.62: 0.040
LOT #: 00813040A2
EXPIRATION: 03/01/2015
TANK PRESSURE: 640 psi

BLANK TEST	0.000	12:57
INTERNAL STANDARD	VERIFIED	12:57
EXTERNAL STANDARD	0.040	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.040	12:59
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.040	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.040	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.040	13:02
BLANK TEST	0.000	13:03

Average = 0.0400
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

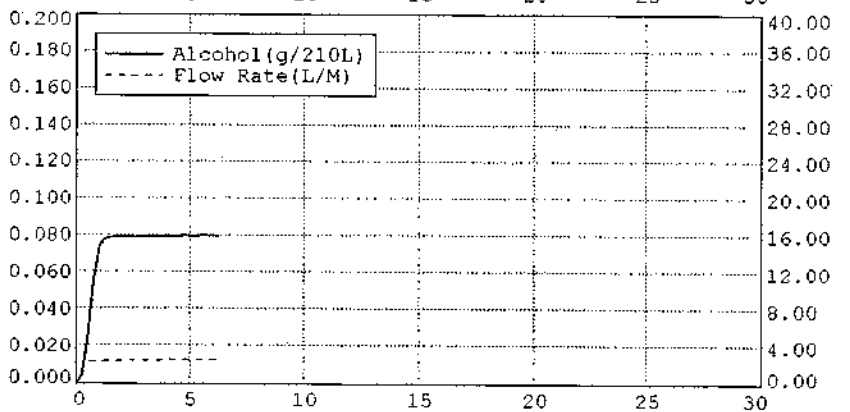
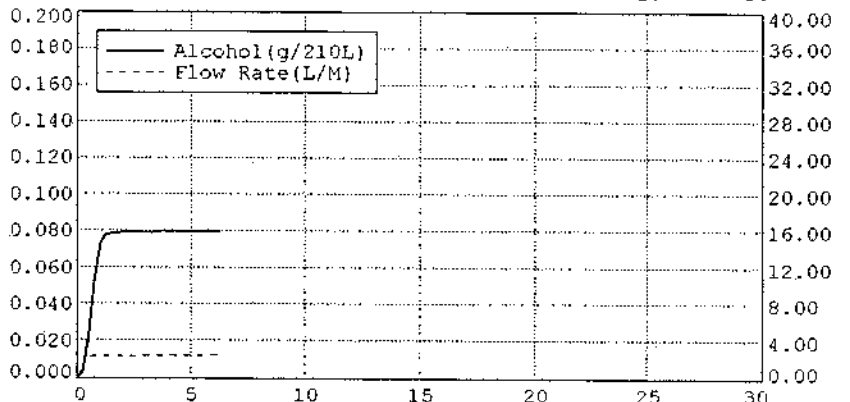
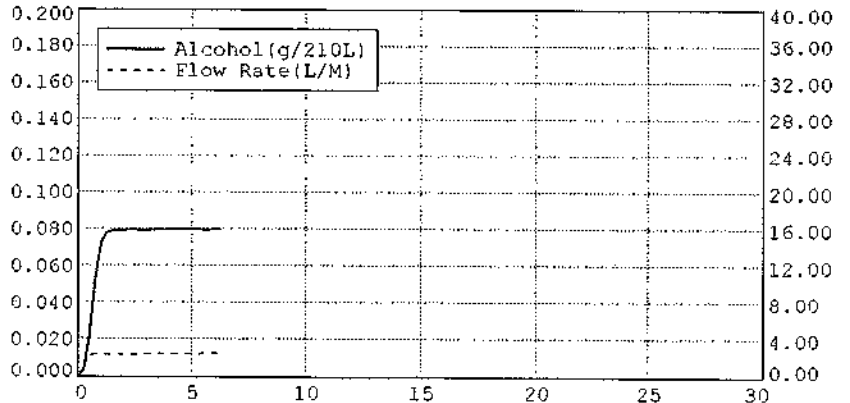
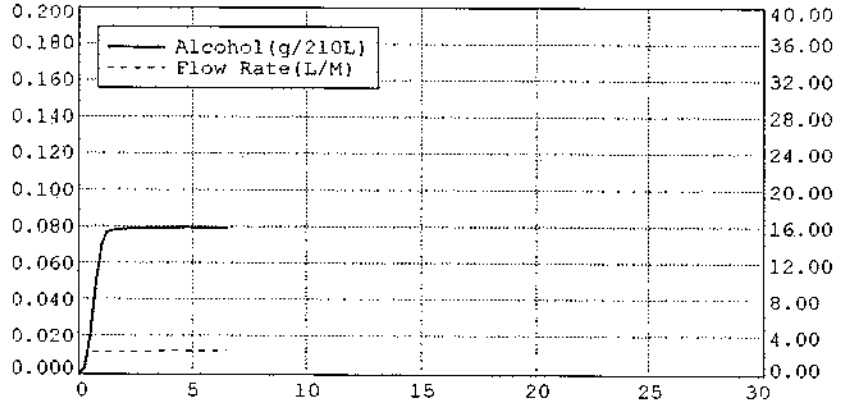
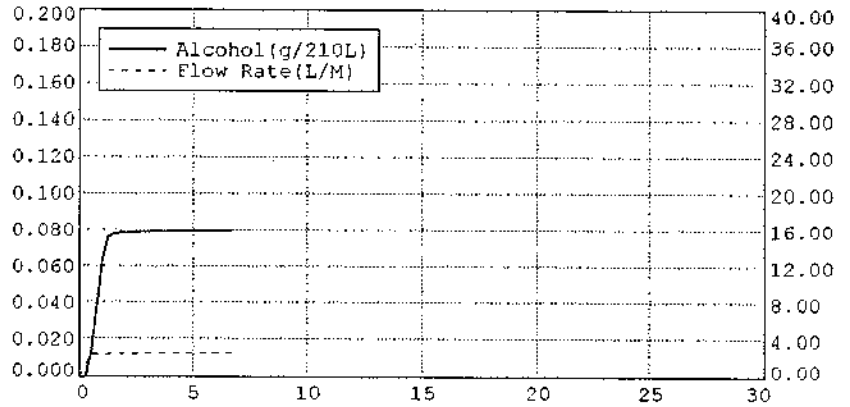
Date: 02/18/2015
 Time: 13:03:44

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.63: 0.079
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015
 TANK PRESSURE: 1062 psi

BLANK TEST	0.000	13:05
INTERNAL STANDARD	VERIFIED	13:05
EXTERNAL STANDARD	0.081	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.080	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.081	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.081	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.081	13:09
BLANK TEST	0.000	13:10

Average = 0.0808
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

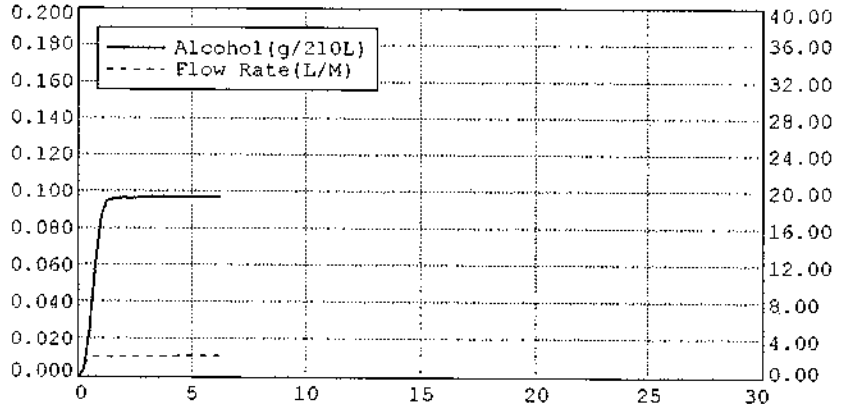
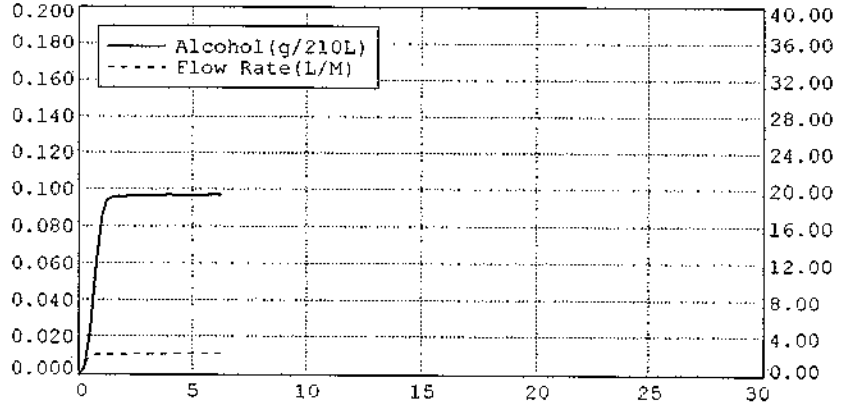
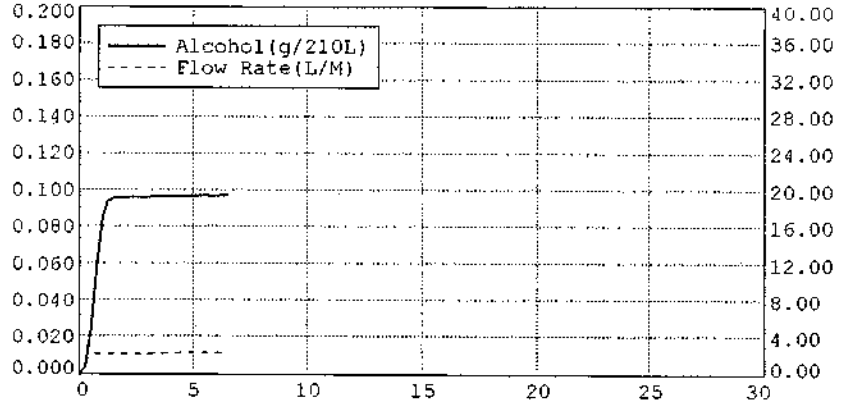
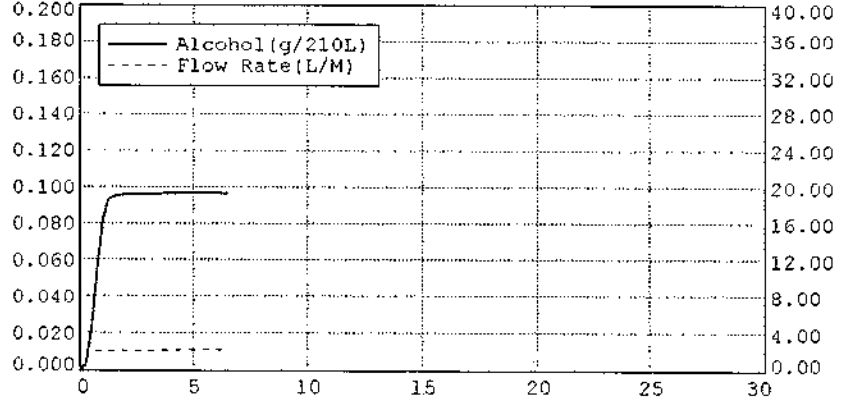
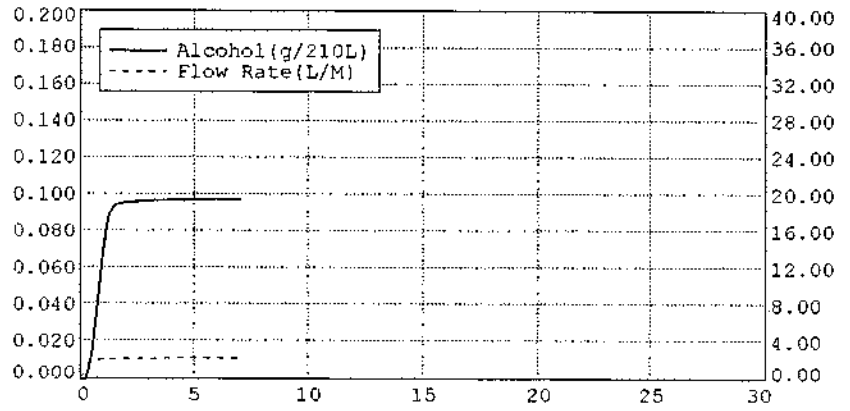
Date: 02/18/2015
 Time: 13:14:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.62: 0.099
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015
 TANK PRESSURE: 383 psi

BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.098	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.098	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.098	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.098	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.098	13:20
BLANK TEST	0.000	13:21

Average = 0.0980
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

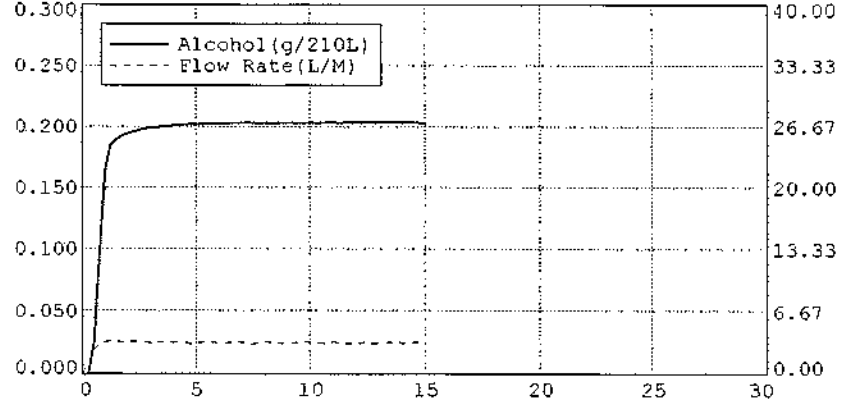
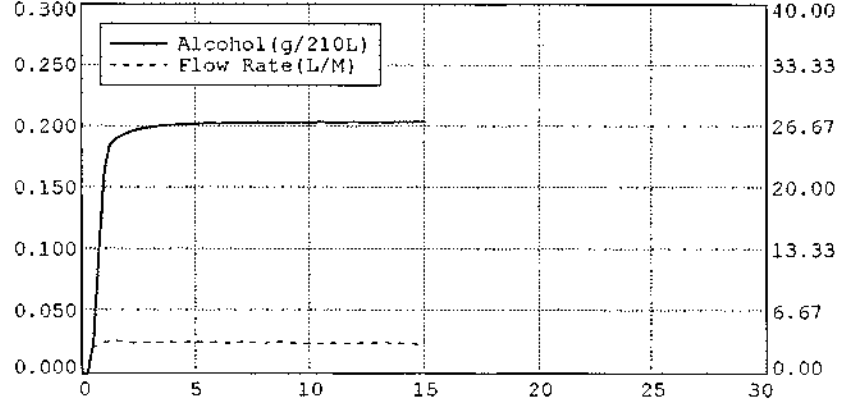
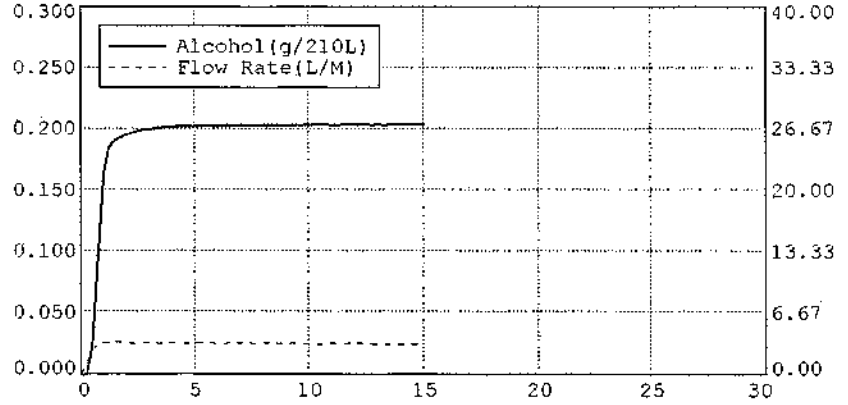
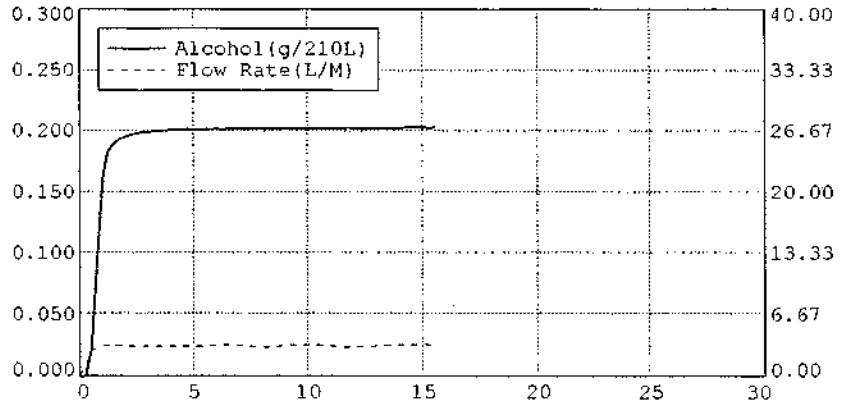
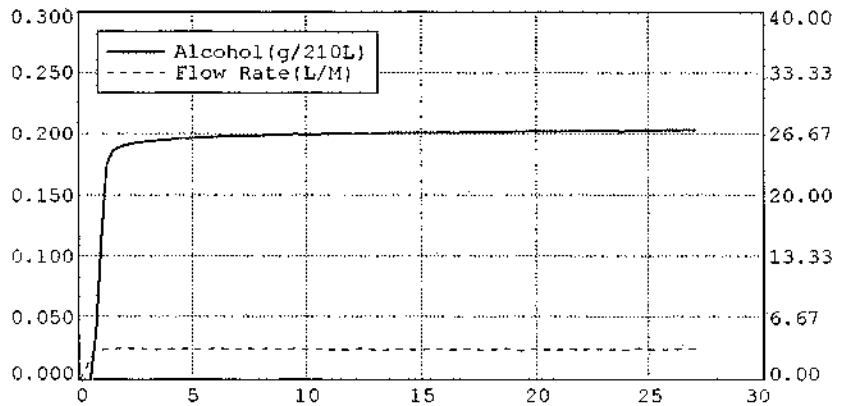
Alaska Department of Public Safety
 DATAMASTER dmt: 100684

Date: 02/18/2015
 Time: 13:26:09

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 13220
 EXPIRATION: 08/05/2015

BLANK TEST	0.000	13:27
INTERNAL STANDARD	VERIFIED	13:28
EXTERNAL STANDARD	0.204	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.203	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.204	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.204	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.204	13:33
BLANK TEST	0.000	13:34

Average = 0.2038
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

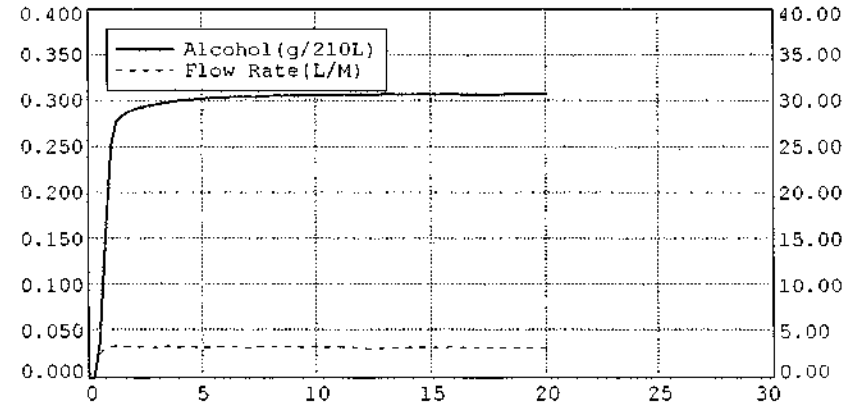
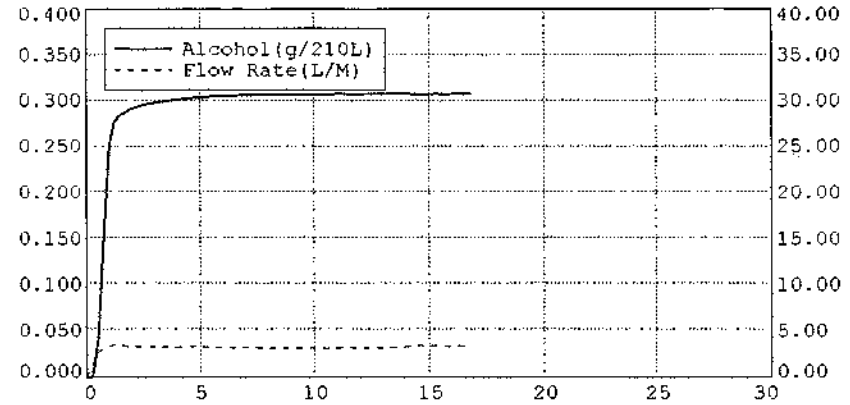
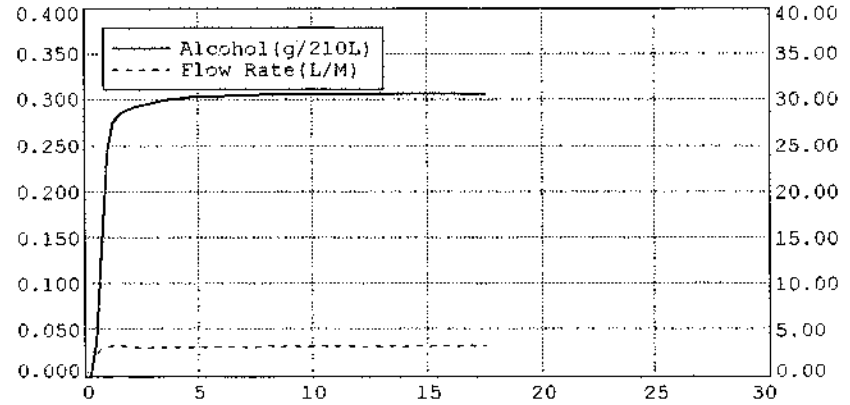
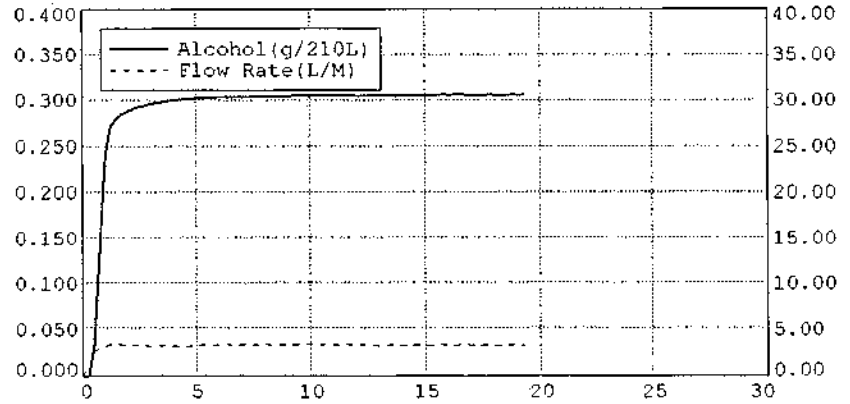
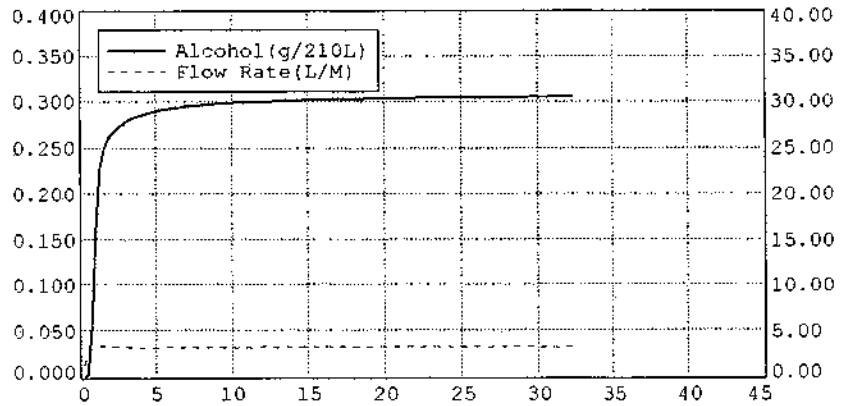
Alaska Department of Public Safety
 DATAMASTER dmt: 100684

Date: 02/18/2015
 Time: 13:36:14

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

BLANK TEST	0.000	13:37
INTERNAL STANDARD	VERIFIED	13:37
EXTERNAL STANDARD	0.306	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.306	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.307	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.307	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.307	13:43
BLANK TEST	0.000	13:44

Average = 0.3066
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 02/19/2015
Time: 09:43:03

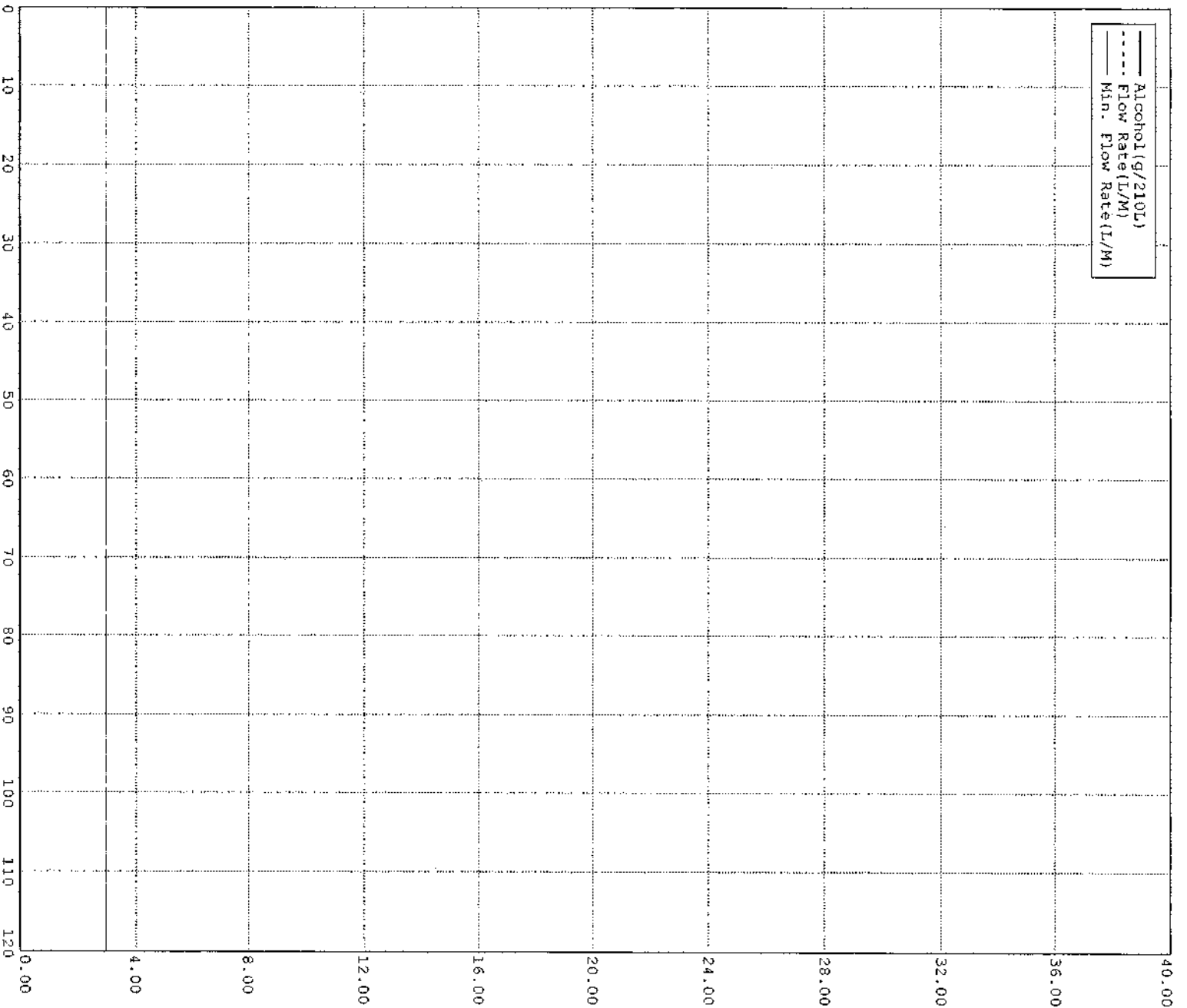
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	09:45
BLANK TEST	0.000	09:45
INTERNAL STANDARD	VERIFIED	09:45
EXTERNAL STANDARD	0.081	09:45
BLANK TEST	0.000	09:46
SUBJECT SAMPLE	INCOMPLETE	09:48



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 02/19/2015
Time: 09:51:10

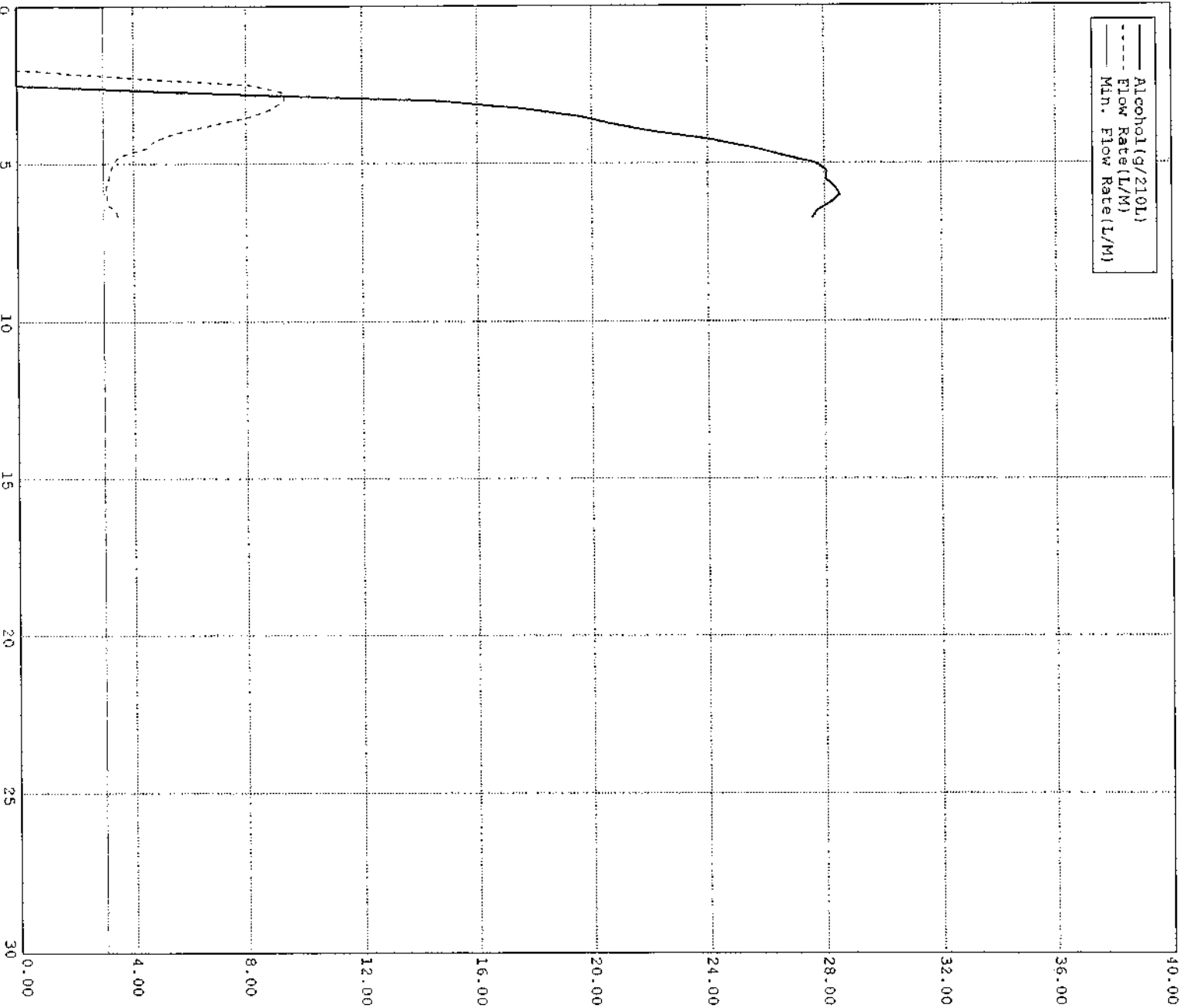
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	09:54
BLANK TEST	0.000	09:54
INTERNAL STANDARD	VERIFIED	09:54
EXTERNAL STANDARD	0.081	09:54
BLANK TEST	0.000	09:55
SUBJECT SAMPLE	INVALID	09:55



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100684

Date: 02/19/2015
Time: 10:20:14

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

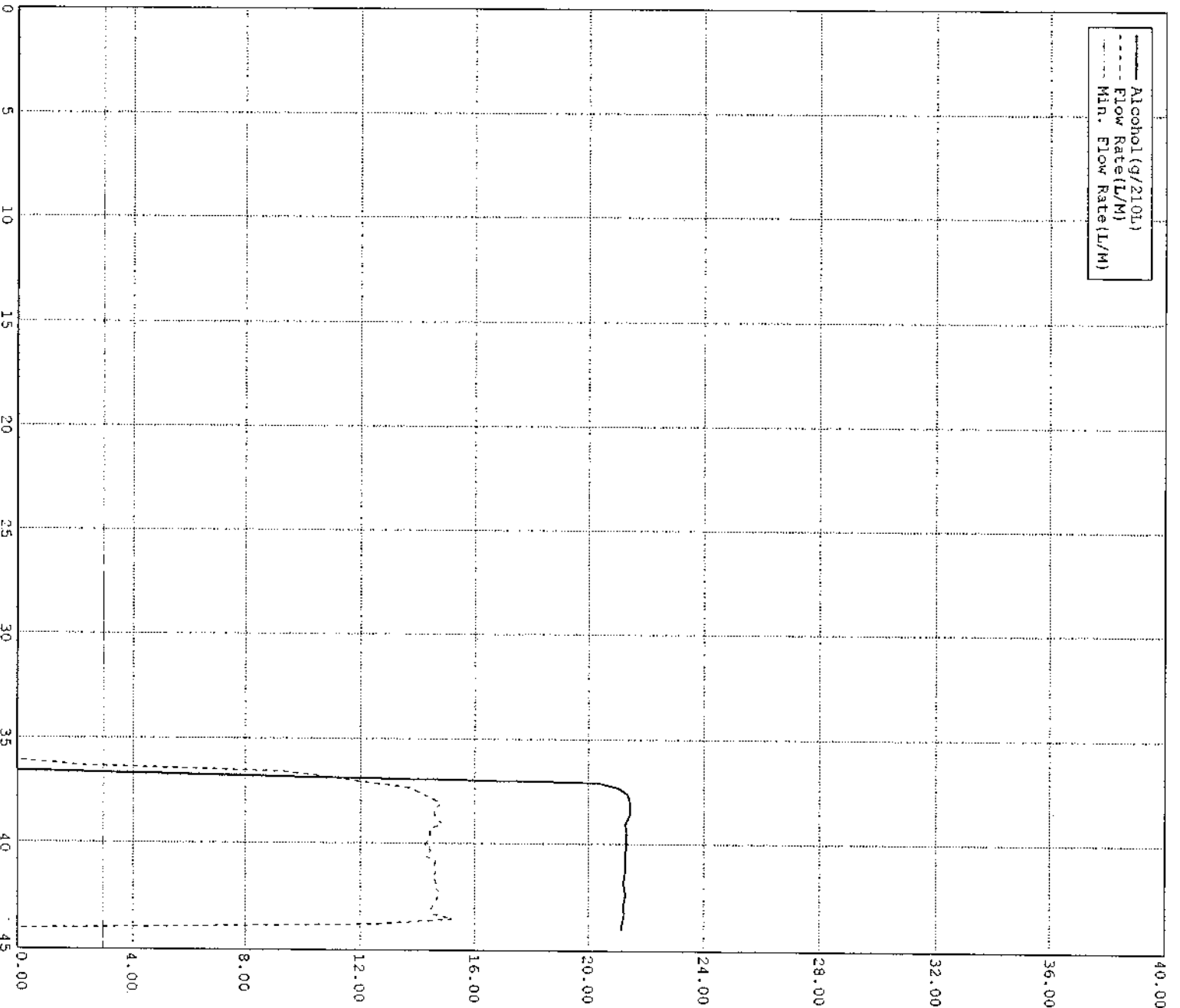
OPERATOR NAME:
INTERFERENCE ACETONE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	10:22
BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED	10:22
Xq = 0.092 (2.03%)	0.081	10:22
EXTERNAL STANDARD	X[1] = 0.0811 (-0.0009)	(0.0013)
BLANK TEST	0.000	10:23
SUBJECT SAMPLE	X[3] = 0.1062 (-0.0189)	(-0.0001)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 02/19/2015
Time: 10:28:54

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

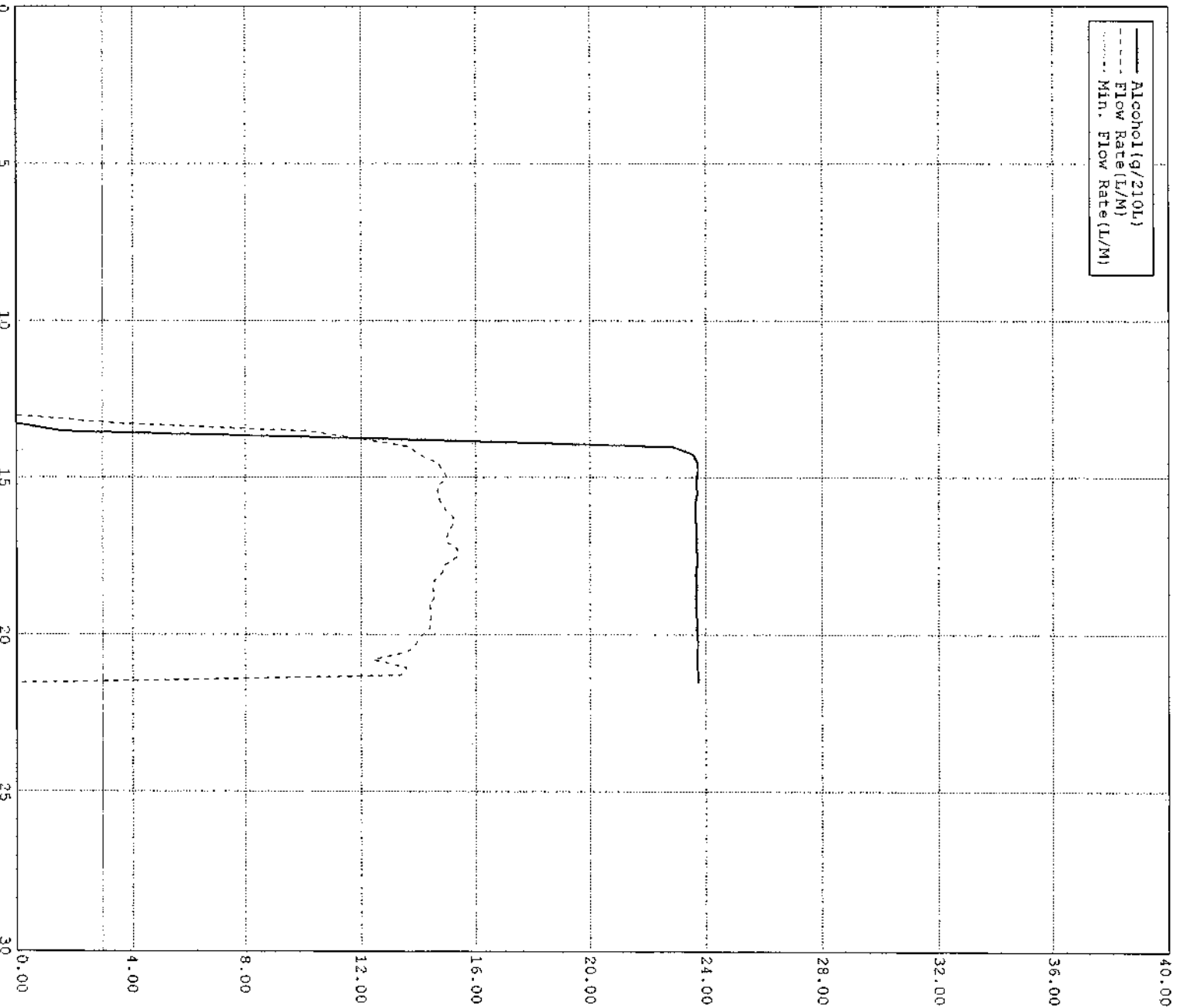
OPERATOR NAME:
INTERFERENCE IPA
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	10:34
BLANK TEST	0.000	10:34
INTERNAL STANDARD	VERIFIED	10:34
Xq = 0.093 (2.81%)	0.082	10:34
EXTERNAL STANDARD	X[1] = 0.0816 (0.0000)	{0.0020}
BLANK TEST	0.000	10:35
SUBJECT SAMPLE	X[1] = 0.1190 (-0.0257)	{-0.0006}

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100584

Date: 02/19/2015
Time: 10:38:36

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE NEGATIVE
OPERATOR'S #: XXXX

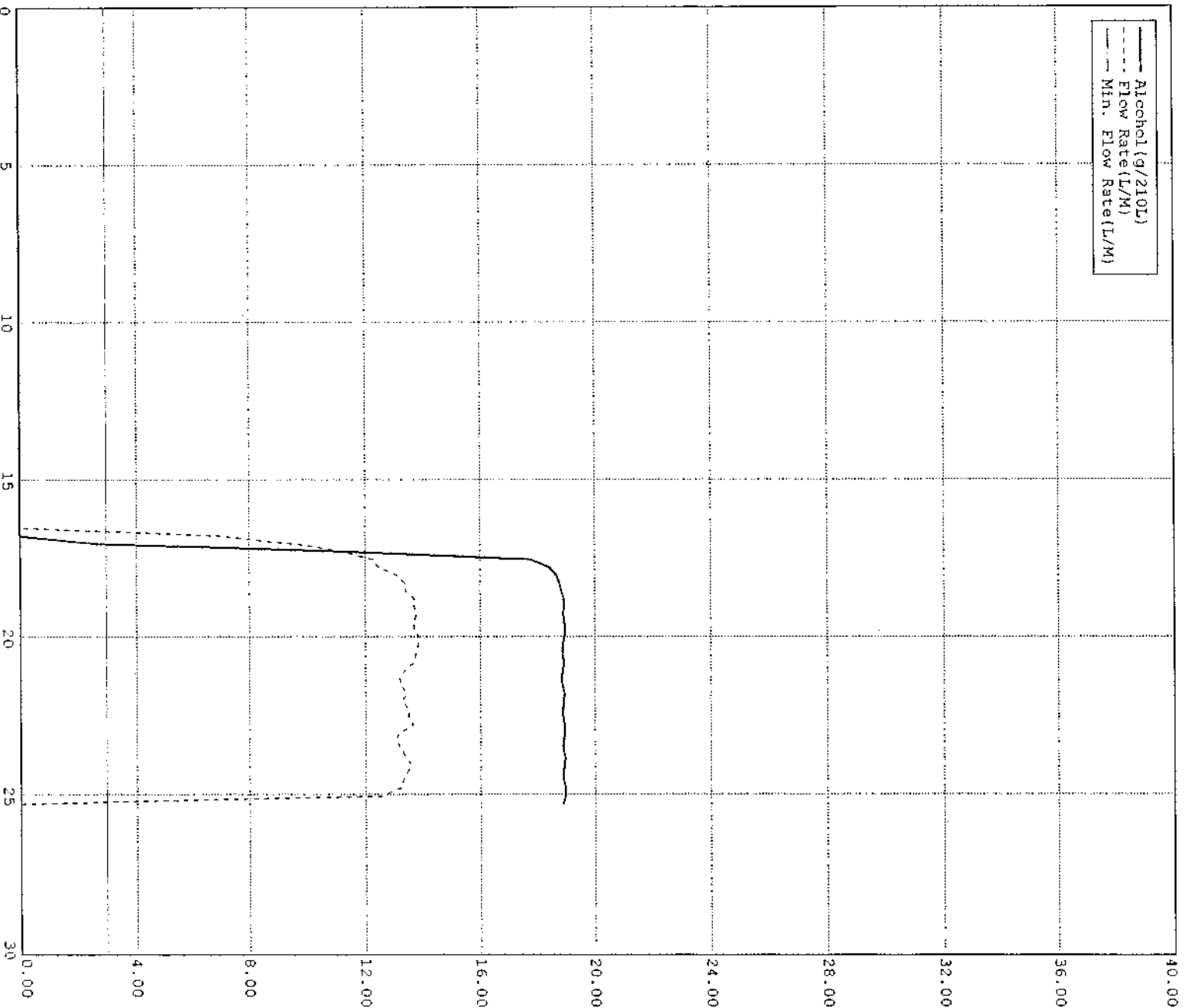
DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.86: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	10:42
BLANK TEST	0.000	10:43
INTERNAL STANDARD	VERIFIED	10:43
Xq = 0.093 (2.71%)		
EXTERNAL STANDARD	0.081	10:43
X[1] = 0.0814 (-0.0008)	(0.0024)	
BLANK TEST	0.000	10:44
SUBJECT SAMPLE (Vol=1.85L)	0.094	10:44
X[1] = 0.0949 (-0.0026)	(-0.0007)	
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.081	10:45
X[1] = 0.0809 (-0.0003)	(0.0013)	
BLANK TEST	0.000	10:46

Filter 2 Average = -0.0005
Filter 3 Average = 0.0018

CDF 2/19/15



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 02/19/2015
Time: 11:52:30

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

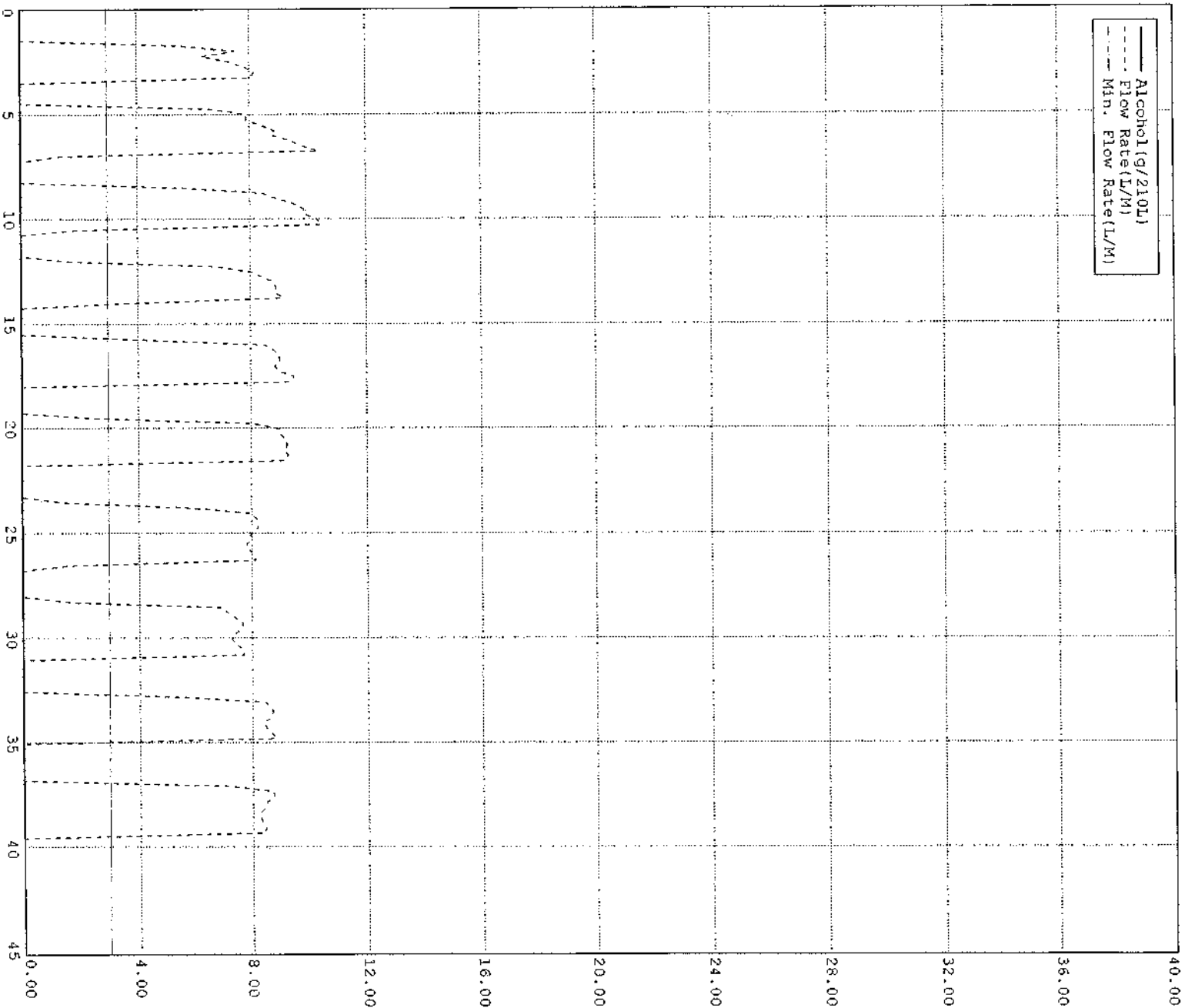
OPERATOR NAME:
EXCEEDED ATTEMPTS
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.89: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	11:53
BLANK TEST	0.000	11:53
INTERNAL STANDARD	VERIFIED	11:53
EXTERNAL STANDARD	0.081	11:53
BLANK TEST	0.000	11:54
SUBJECT SAMPLE	XXX	11:55

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100684

Date: 02/19/2015
Time: 12:08:55

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

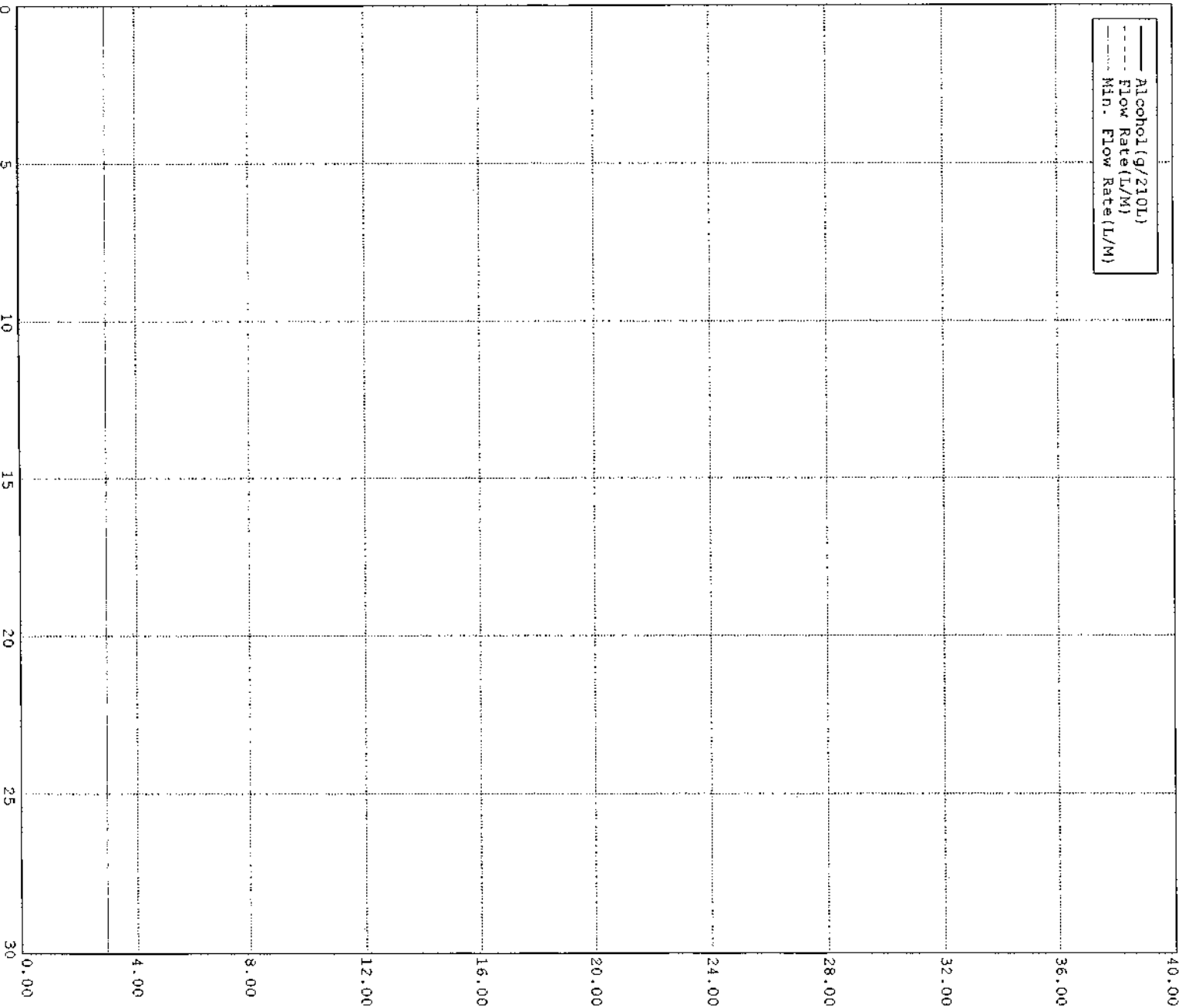
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.89: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK
BLANK TEST PASSED 12:10
INTERNAL STANDARD VERIFIED 12:10
EXTERNAL STANDARD 0.082 12:11
BLANK TEST 0.000 12:12

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DARAMASTER dmt: 100684

Date: 02/19/2015
Time: 12:25:21

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 29.89: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	12:26
BLANK TEST	0.000	12:26
INTERNAL STANDARD	VERIFIED	12:26
EXTERNAL STANDARD	0.081	12:26
BLANK TEST	0.000	12:27
SUBJECT SAMPLE (Vol=3.73L)	0.000	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.082	12:29
BLANK TEST	0.000	12:30

