

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 7/10/2015
Effective: 7/10/2015

Version: DMCEF 2015 R1
Status: Active

Instrument S/N 100666 Analyst CRF Start Date 12/2/15

1. Diagnostic Test (attached) Internal Standard value $\leq 3.00\%$ Yes

1. 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)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1.5 L (1.3L to 1.7L)

4. 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 01315090A3 Exp 2/5/17

iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17

v. 0.200g/210L Mnf Guth Lot 15130 Exp 5/11/17

1. Simulator S/N DR6267 Date Calibrated 1/20/15

vi. 0.300g/210L Mnf Guth Lot 14270 Exp 12/2/16

1. Simulator S/N DR4162 Date Calibrated 1/19/15

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 15050 Level 0.100 Exp 3/9/17

1. Simulator S/N DR4163 Date Calibrated 1/19/15

ii. Isopropanol - Mnf Guth Lot 15050 Level 0.100 Exp 3/9/17

1. Simulator S/N SD1176 Date Calibrated 1/20/15

iii. Negative Control - Mnf Guth Lot 15050 Level 0.100 Exp 3/9/17

1. Simulator S/N DR4178 Date Calibrated 1/19/15

e. RFI

6. Verify stylus is calibrated

7. Reset Options

8. Clear Memory

9. Verification of Calibration

10. Non-Drinking Subject Test (attached)

11. Upload

13. Remove tank prior to shut down

End Date 12/2/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 12/02/2015
Time: 10:12:46

VERSIONS

DMT: 3.01
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.4°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.59 V PASSED
(0.97 V - 2.27 V)
Cooler Voltage = 1.61 V PASSED
(0.98 V - 2.28 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 531 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.752 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.001 V <= 0.010 V)
PUMP OFF PASSED
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.087 0.00% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100666

Date: 12/02/2015
Time: 10:20 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 46.5°C

Current Barometer 29.2 in
Volume (Ltr) 1.45

Settings

Lamp: 1.65 V
Bias: 79 V
Cooler: 1.56 V
Chopper: 530 Hz

Voltages (V)

Flow: 1.04 V
Detector: 0.070 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 10/05/2015
Time: 10:33:02

Ca = 0.1010
CAL = 1.004347 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0044 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.0868 0.0500 <= Xq < 0.2000
a21 = 1.140599 1.050 <= a21 < 1.300
a31 = 0.533959 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100666

Date: 12/02/2015
Time: 10:56:02

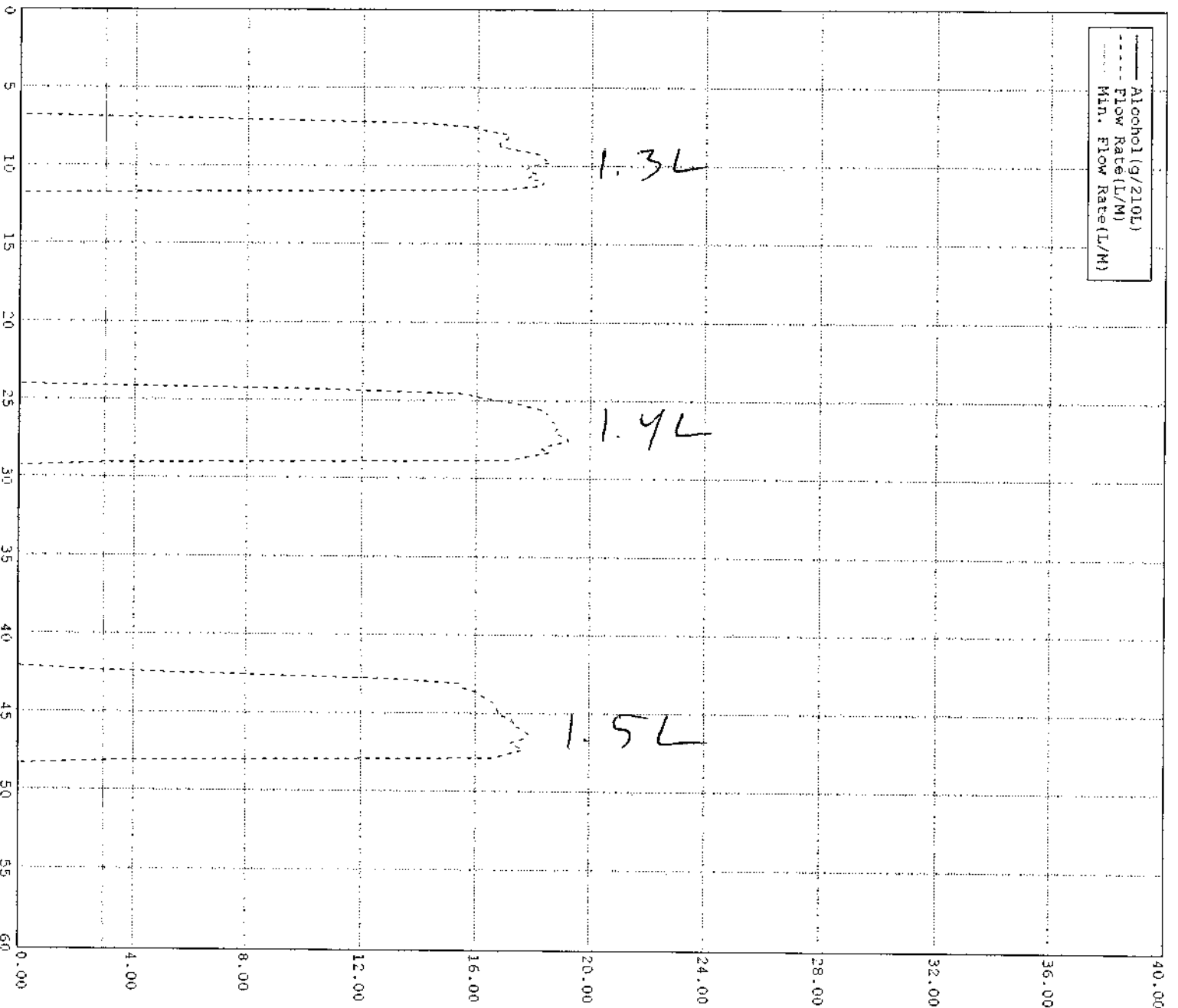
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.16: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	10:57
BLANK TEST	0.000	10:57
INTERNAL STANDARD	VERIFIED	10:57
EXTERNAL STANDARD	0.079	10:57
BLANK TEST	0.000	10:58
SUBJECT SAMPLE (Vol=1.51L)	0.000	10:59
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.079	11:00
BLANK TEST	0.000	11:01



LINEARITY CHECK

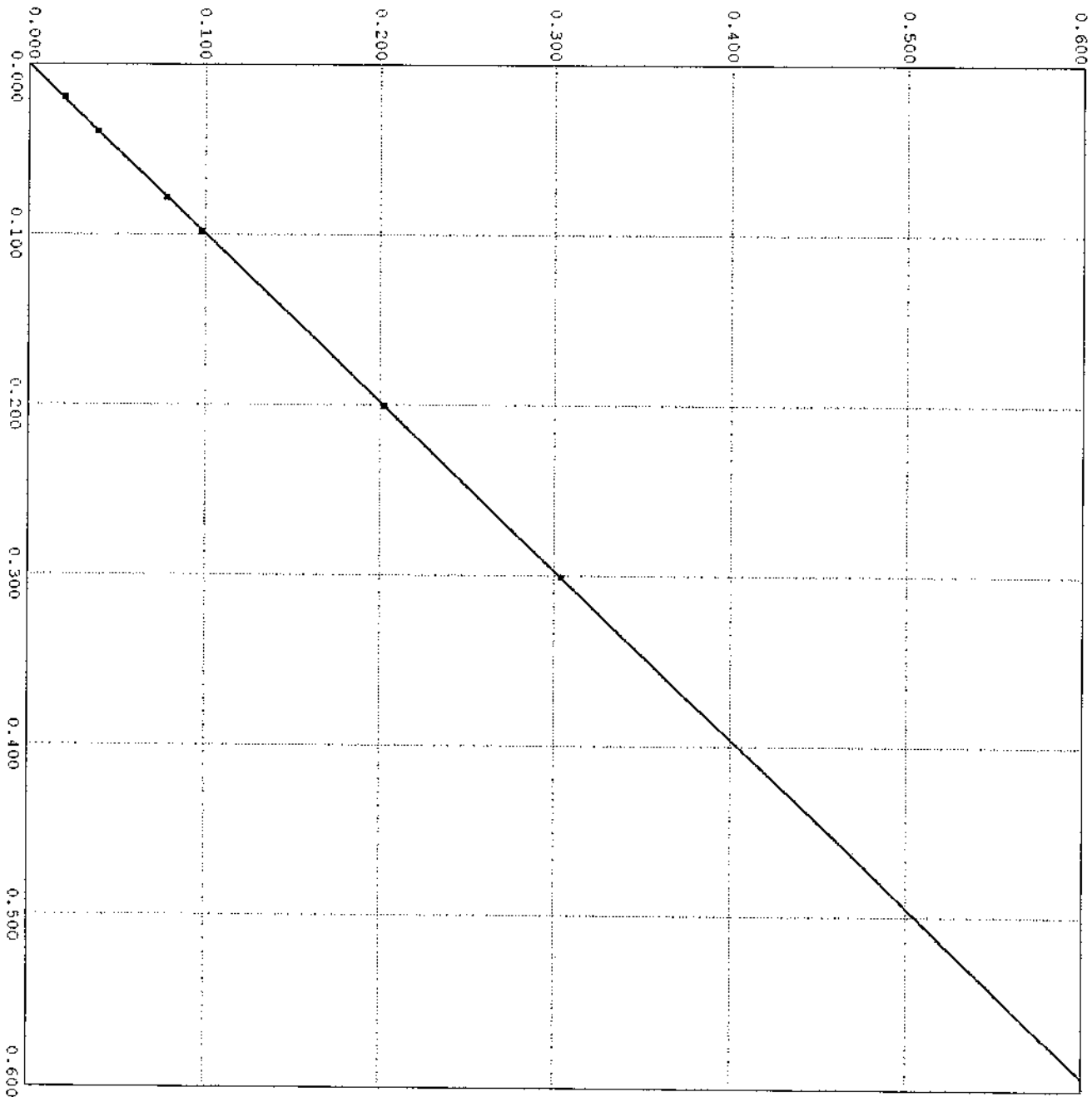
Alaska Department of Public Safety
DATAMASTER dnt: 100666

Date: 12/02/2015
Time: 12:33:22

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0210	0.0000
0.039	0.0400	0.0000
0.078	0.0790	0.0000
0.098	0.0988	0.0004
0.200	0.2032	0.0004
0.300	0.3046	0.0009

SLOPE = 1.012323
R² = 0.999953



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

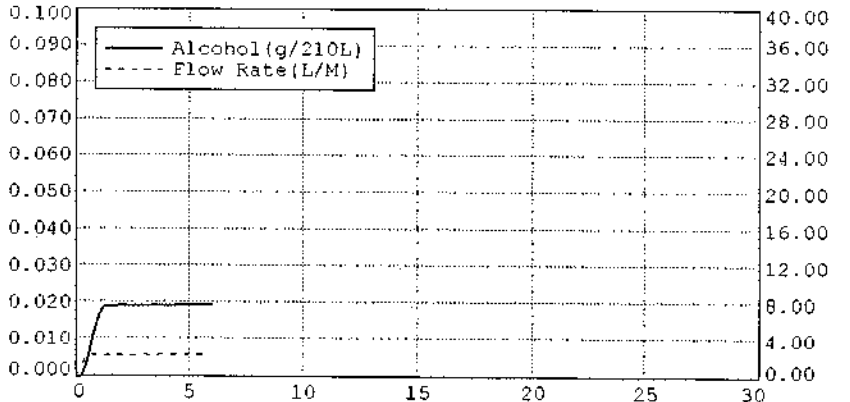
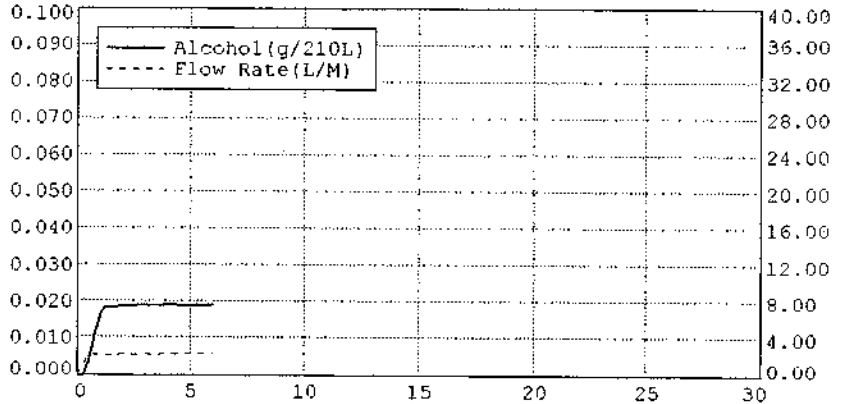
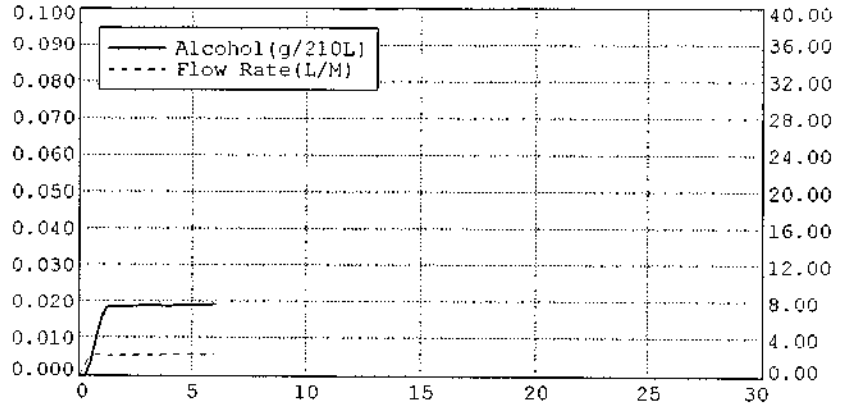
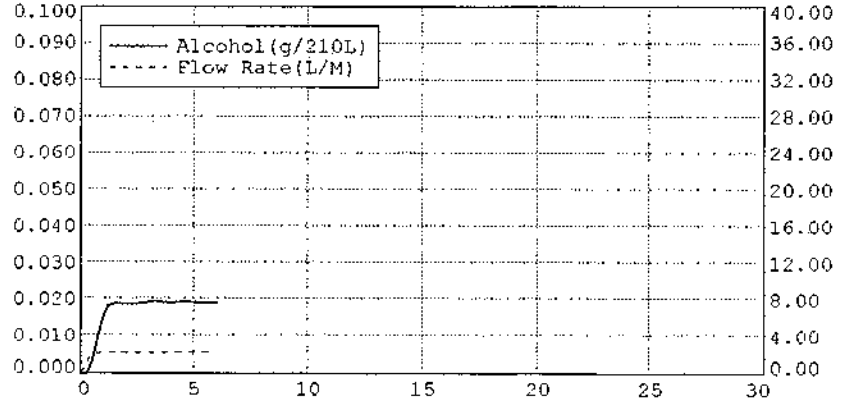
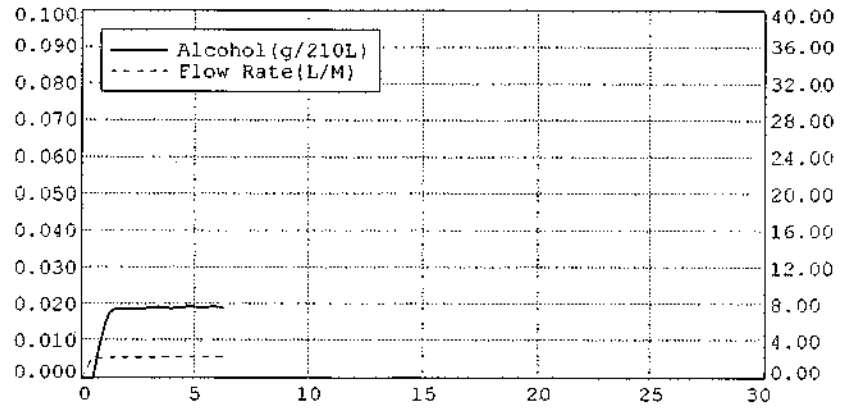
Date: 12/02/2015
 Time: 12:33:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.17: 0.019
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 712 psi

BLANK TEST	0.000	12:34
INTERNAL STANDARD	VERIFIED	12:34
EXTERNAL STANDARD	0.021	12:35
BLANK TEST	0.000	12:35
EXTERNAL STANDARD	0.021	12:36
BLANK TEST	0.000	12:37
EXTERNAL STANDARD	0.021	12:37
BLANK TEST	0.000	12:38
EXTERNAL STANDARD	0.021	12:38
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.021	12:39
BLANK TEST	0.000	12:40

Average = 0.0210
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

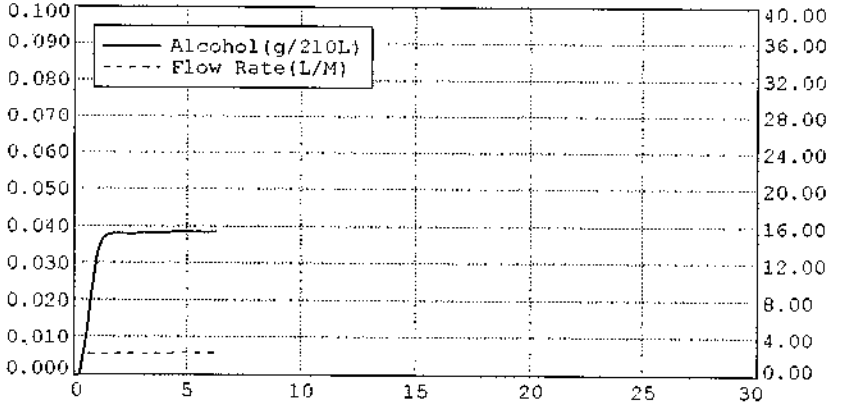
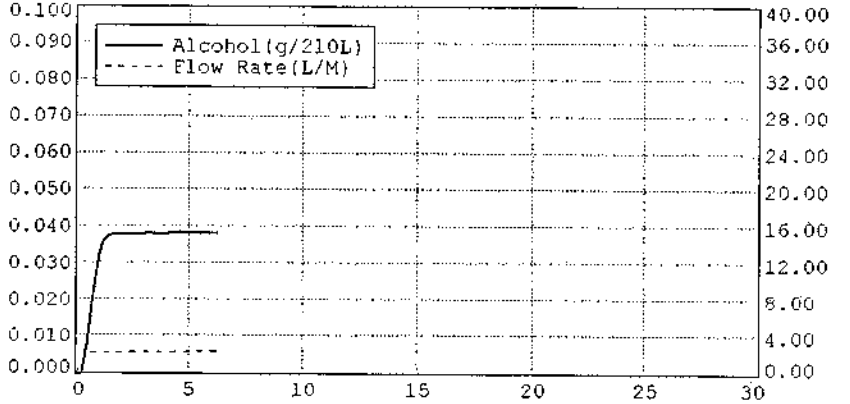
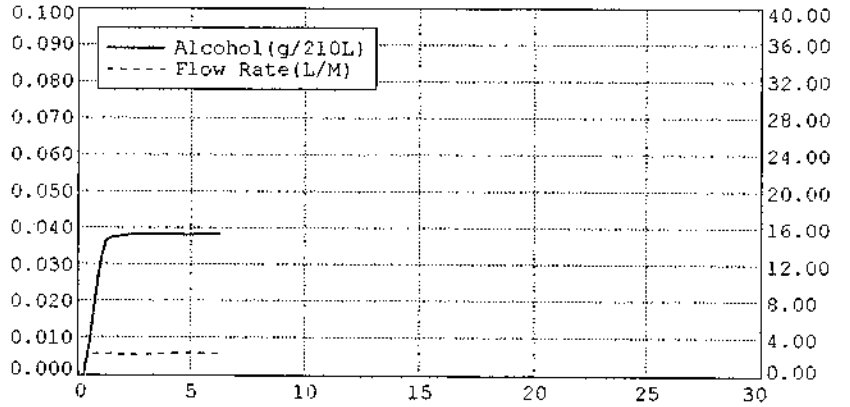
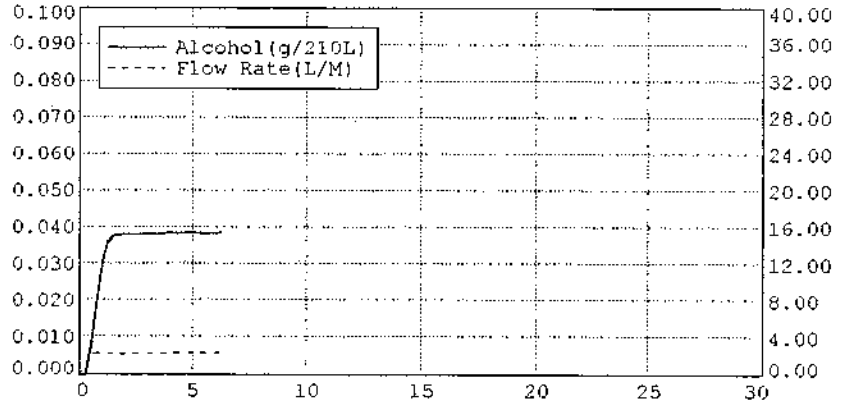
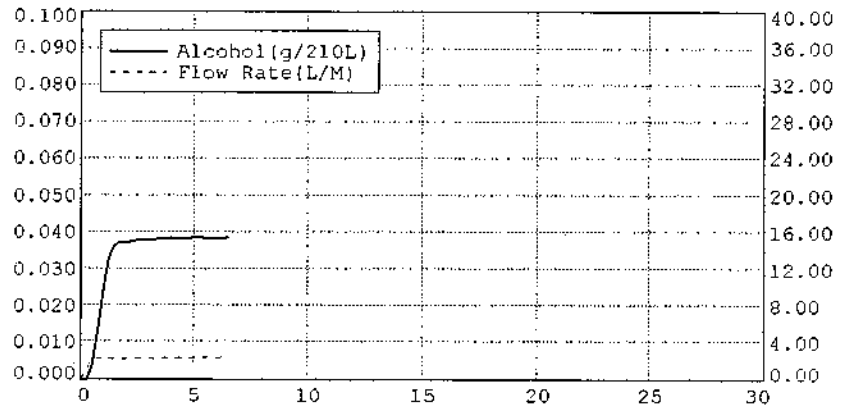
Date: 12/02/2015
 Time: 12:41:19

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.16: 0.039
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 747 psi

BLANK TEST	0.000	12:42
INTERNAL STANDARD	VERIFIED	12:42
EXTERNAL STANDARD	0.040	12:42
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.040	12:44
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.040	12:45
BLANK TEST	0.000	12:46
EXTERNAL STANDARD	0.040	12:46
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.040	12:47
BLANK TEST	0.000	12:48

Average = 0.0400
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

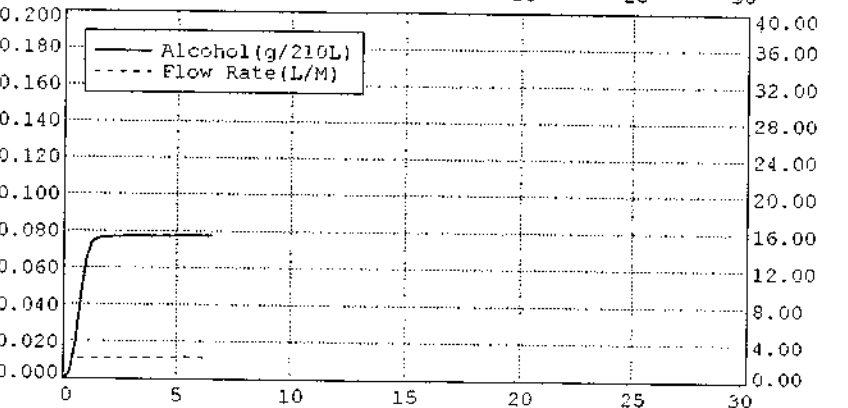
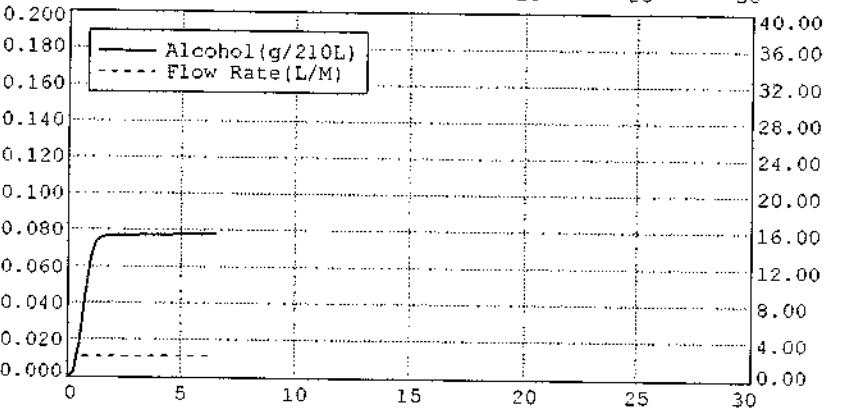
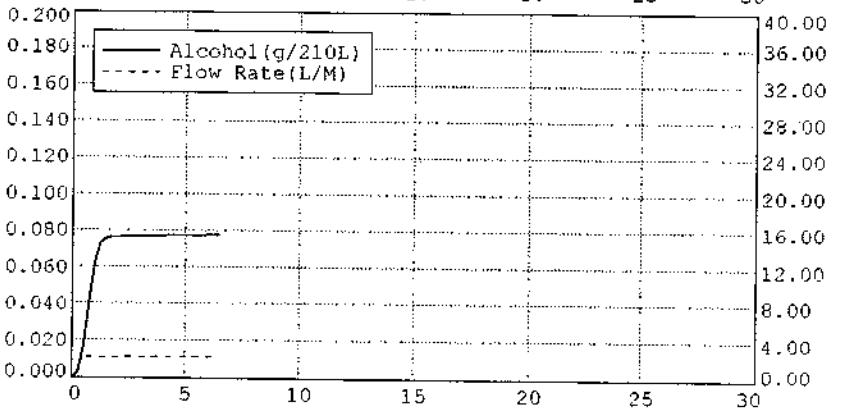
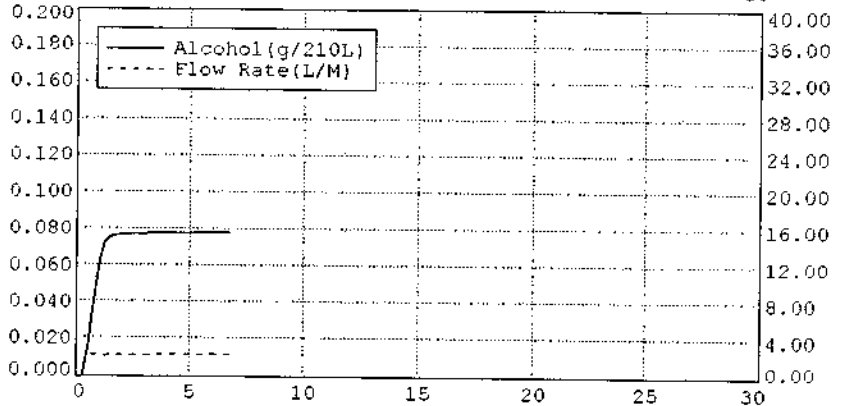
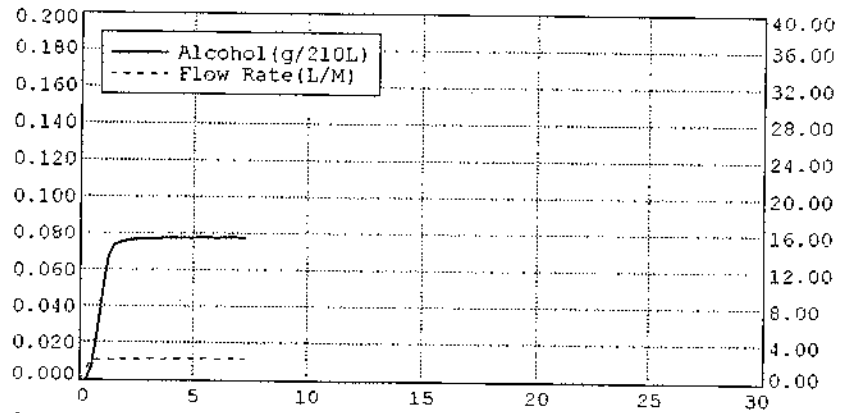
Date: 12/02/2015
 Time: 12:49:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.17: 0.078
 LOT #: 01315080A3
 EXPIRATION: 02/05/2017
 TANK PRESSURE: 800 psi

BLANK TEST	0.000	12:50
INTERNAL STANDARD	VERIFIED	12:50
EXTERNAL STANDARD	0.079	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.079	12:52
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.079	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.079	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.079	12:55
BLANK TEST	0.000	12:56

Average = 0.0790
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

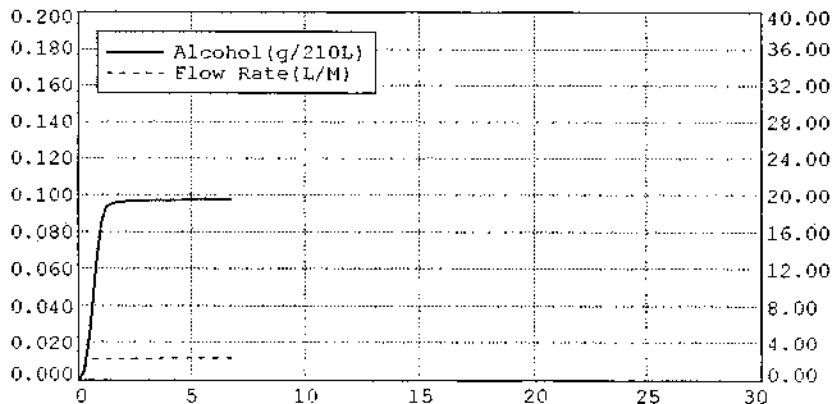
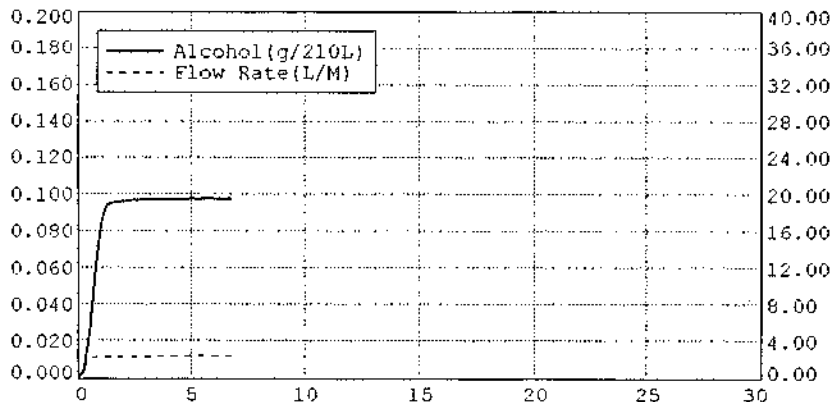
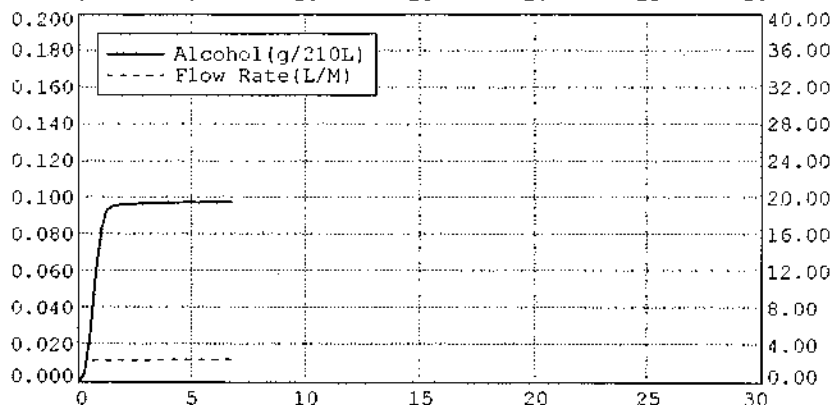
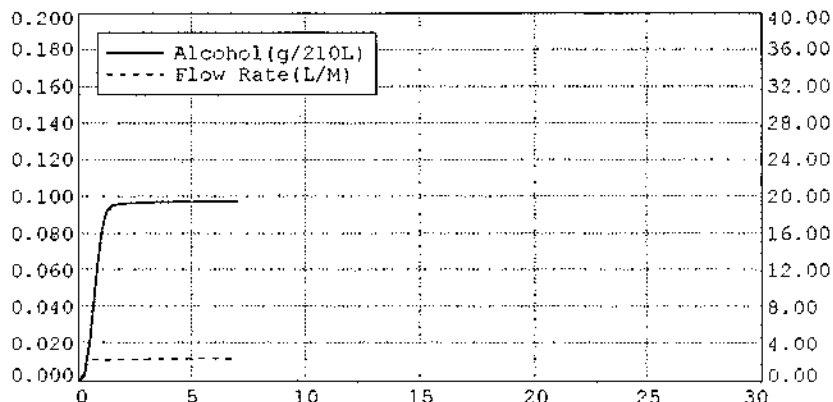
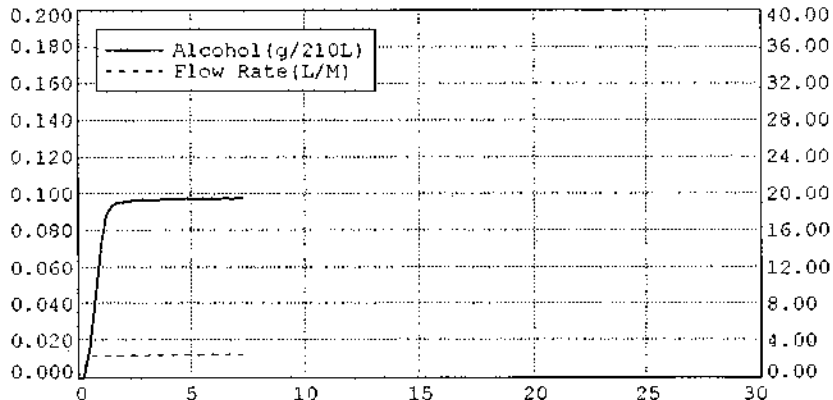
Date: 12/02/2015
 Time: 12:59:44

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.17: 0.098
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 1031 psi

BLANK TEST	0.000	13:00
INTERNAL STANDARD	VERIFIED	13:01
EXTERNAL STANDARD	0.099	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.099	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.099	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.099	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.098	13:05
BLANK TEST	0.000	13:06

Average = 0.0988
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100666

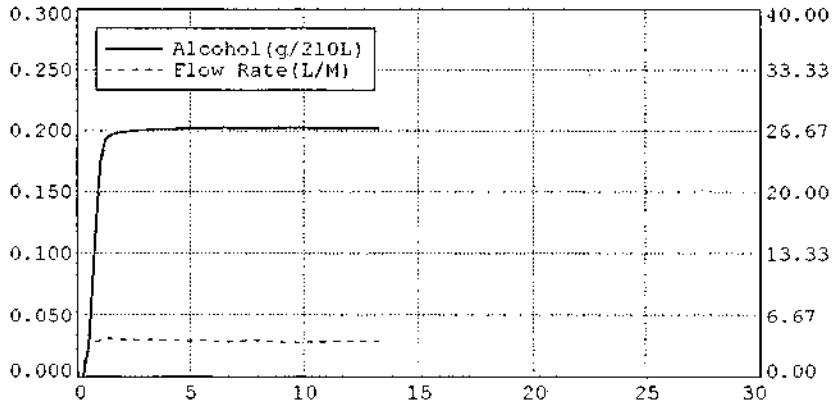
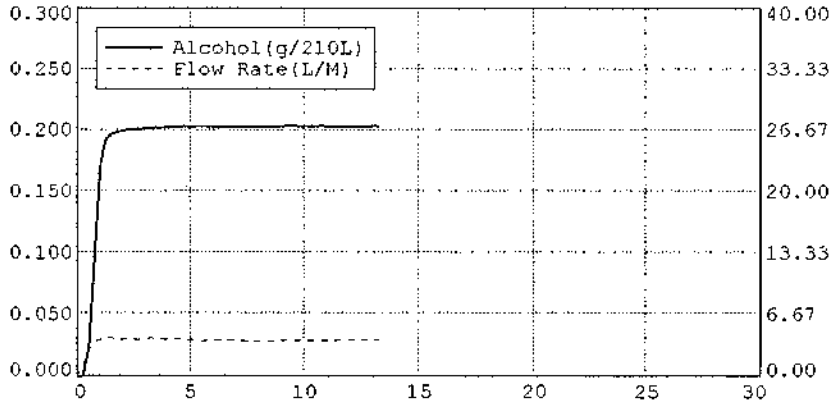
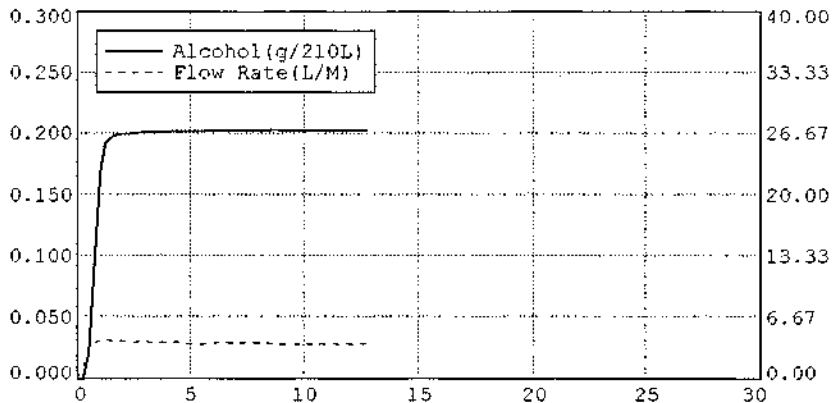
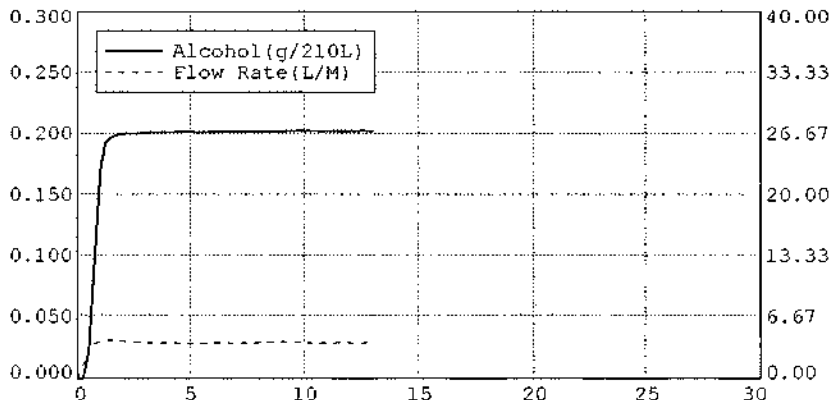
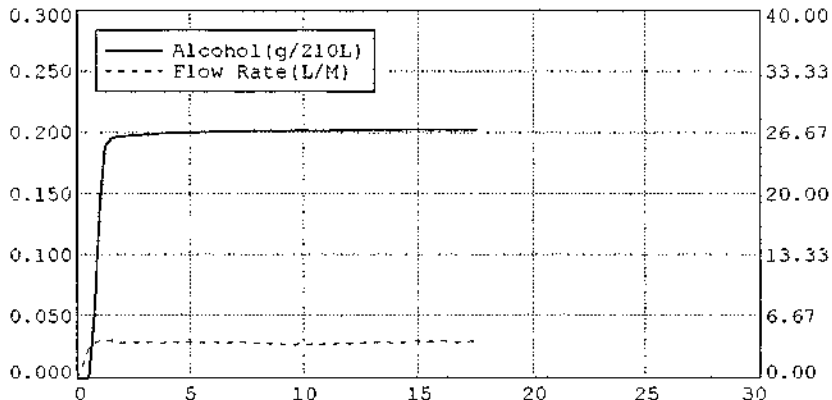
Date: 12/02/2015
 Time: 13:09:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 15130
 EXPIRATION: 05/11/2017

BLANK TEST	0.000	13:10
INTERNAL STANDARD	VERIFIED	13:10
EXTERNAL STANDARD	0.203	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.203	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.203	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.204	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.203	13:16
BLANK TEST	0.000	13:16

Average = 0.2032
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

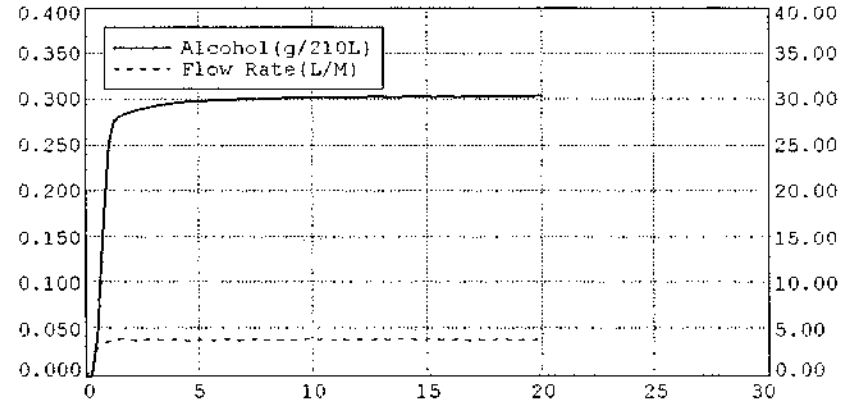
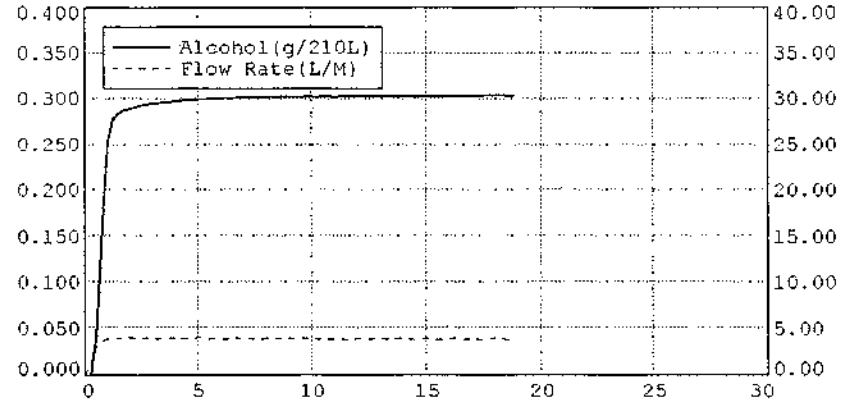
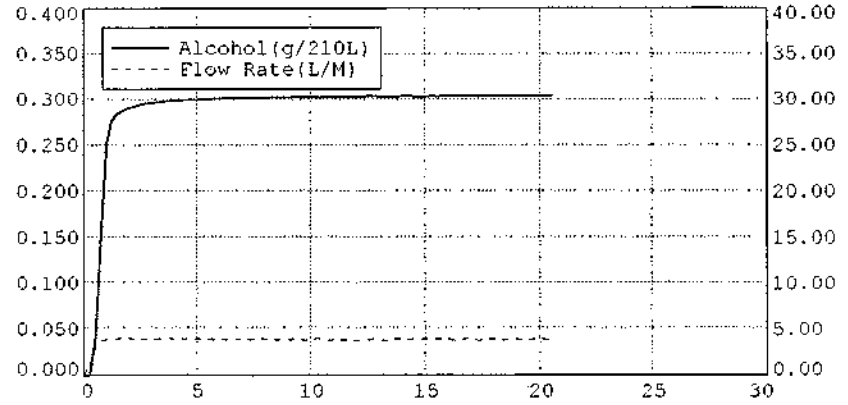
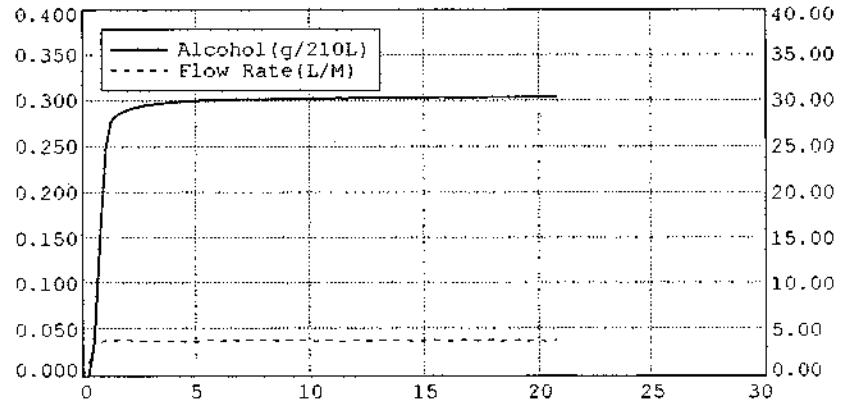
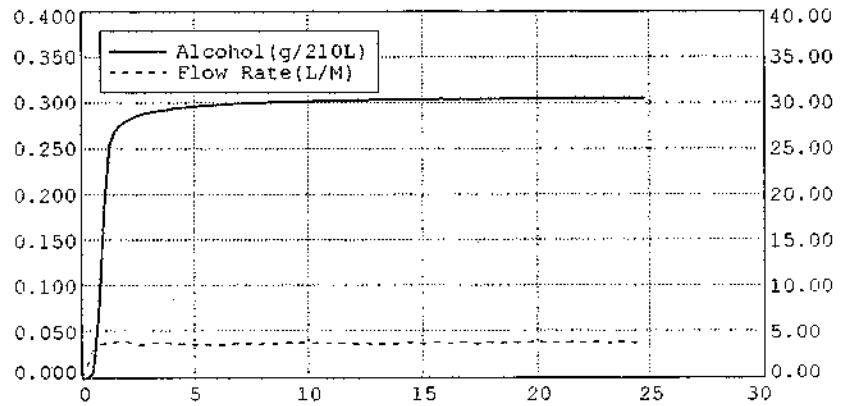
Alaska Department of Public Safety
 DATAMASTER dmt: 100666

Date: 12/02/2015
 Time: 13:18:25

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 14270
 EXPIRATION: 12/02/2016

BLANK TEST	0.000	13:19
INTERNAL STANDARD	VERIFIED	13:19
EXTERNAL STANDARD	0.306	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.304	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.305	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.304	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.304	13:25
BLANK TEST	0.000	13:26

Average = 0.3046
 Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 12/02/2015
Time: 13:31:25

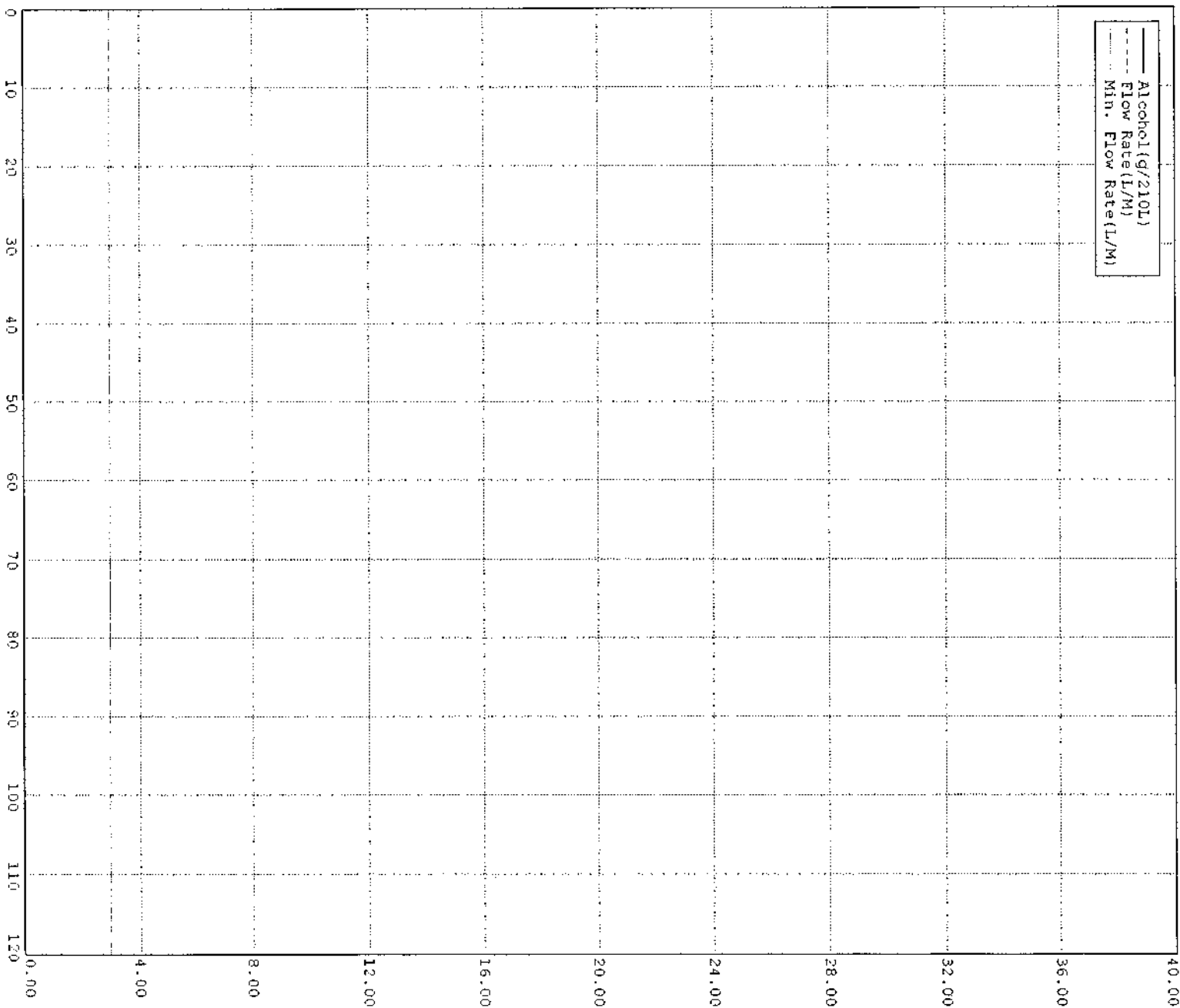
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.16: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	13:32
BLANK TEST	0.000	13:32
INTERNAL STANDARD	VERIFIED	13:32
EXTERNAL STANDARD	0.079	13:32
BLANK TEST	0.000	13:33
SUBJECT SAMPLE	INCOMPLETE	13:35



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 12/02/2015
Time: 14:01:18

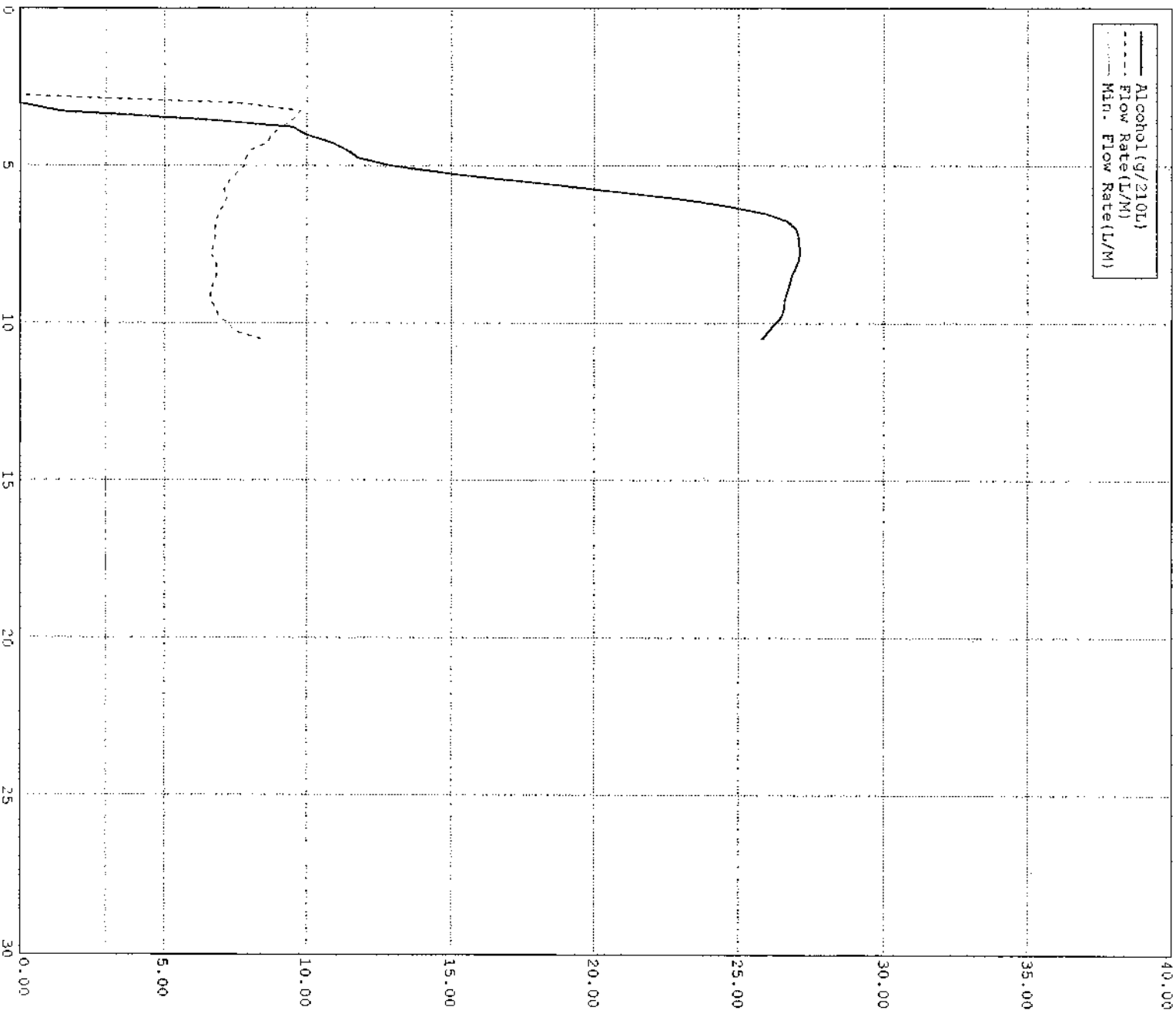
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MOUTH ETCH
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.17: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	14:02
BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.079	14:02
BLANK TEST	0.000	14:03
SUBJECT SAMPLE	INVALID	14:04



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 12/02/2015
Time: 14:07:21

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE ACETONE
OPERATOR'S #: XXXX

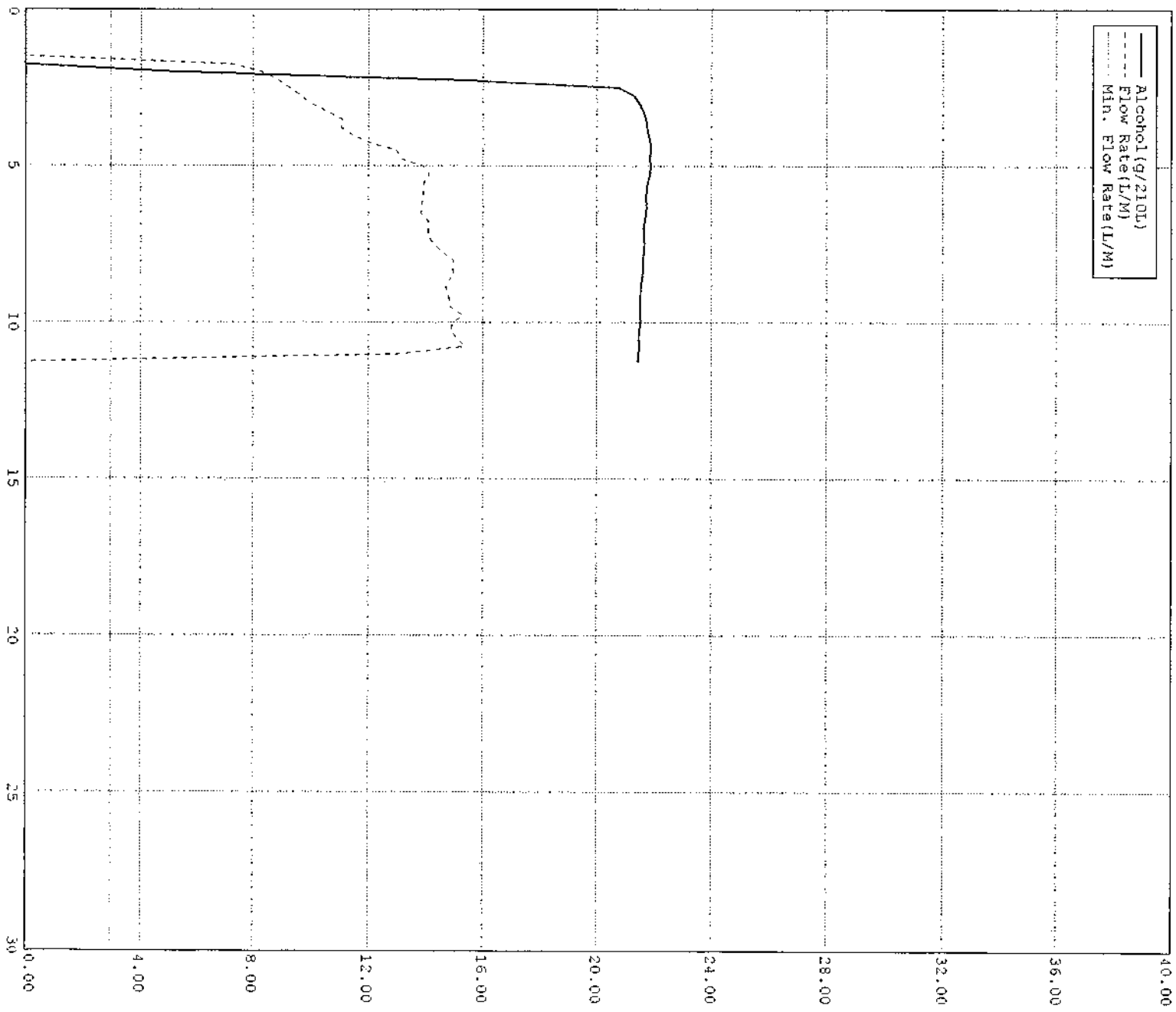
DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.17: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	14:15
BLANK TEST	0.000	14:16
INTERNAL STANDARD	VERIFIED	14:16
Xq = 0.088 (1.21%)		
EXTERNAL STANDARD	0.079	14:16
X[1] = 0.0793 (-0.0010)	(0.0030)	
BLANK TEST	0.000	14:17
SUBJECT SAMPLE	XXX	14:17
X[1] = 0.1080 (-0.0191)	(0.0020)	

Interference Detected

Filter 2 Avg = -0.0008
Filter 3 Avg = 0.0027



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 12/02/2015
Time: 14:19:48

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

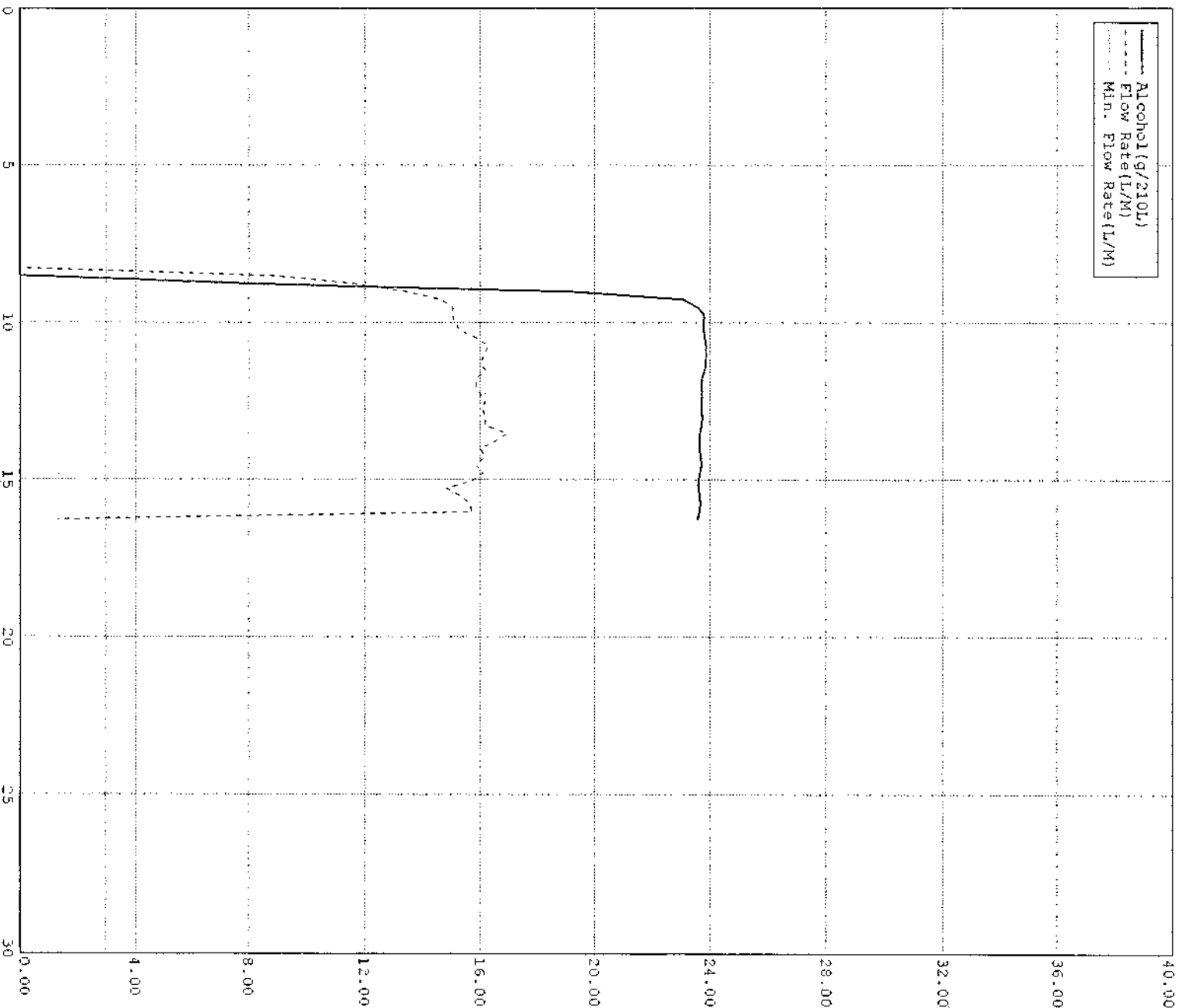
OPERATOR NAME:
INTERFERENCE IPA
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.17: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	14:25
BLANK TEST	0.000	14:25
INTERNAL STANDARD	VERIFIED	14:25
Xq = 0.088 (0.90%)		
EXTERNAL STANDARD	0.079	14:25
X[1] = 0.0790 (-0.0014)	(0.0026)	
BLANK TEST	0.000	14:26
SUBJECT SAMPLE	XXX	14:27
X[1] = 0.1186 (-0.0221)	(0.0028)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 12/02/2015
Time: 14:29:51

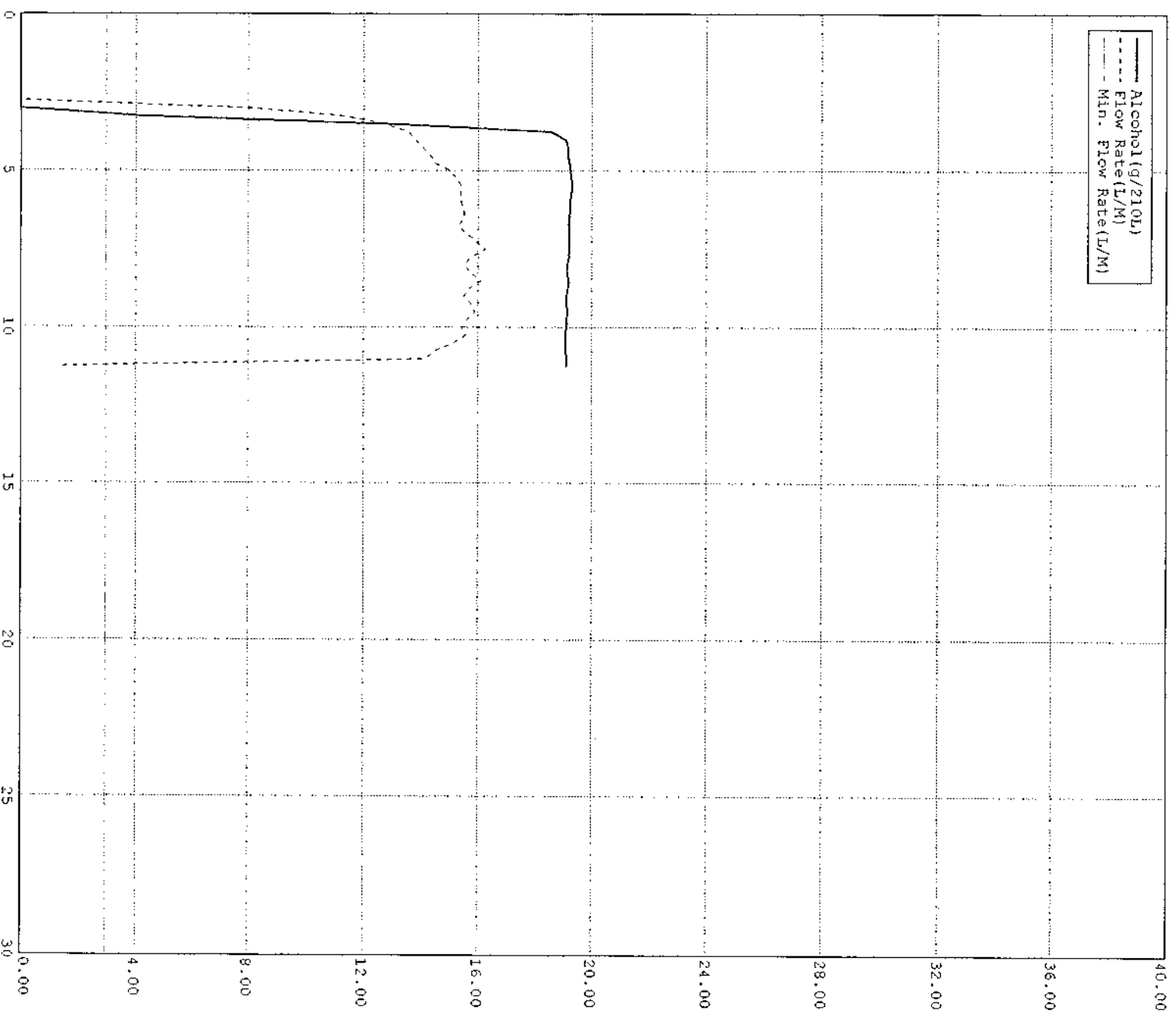
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE NEGATIVE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.16: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	14:36
INTERNAL STANDARD	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:36
Xg = 0.088 (1.21%)		
EXTERNAL STANDARD	0.079	14:36
X[1] = 0.0792 (-0.0007)	(0.0026)	
BLANK TEST	0.000	14:37
SUBJECT SAMPLE (Vol=2.04L)	0.096	14:37
X[1] = 0.0965 (-0.0011)	(0.0014)	
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.079	14:38
X[1] = 0.0792 (-0.0001)	(0.0027)	
BLANK TEST	0.000	14:39



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100666

Date: 12/02/2015
Time: 15:05:50

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

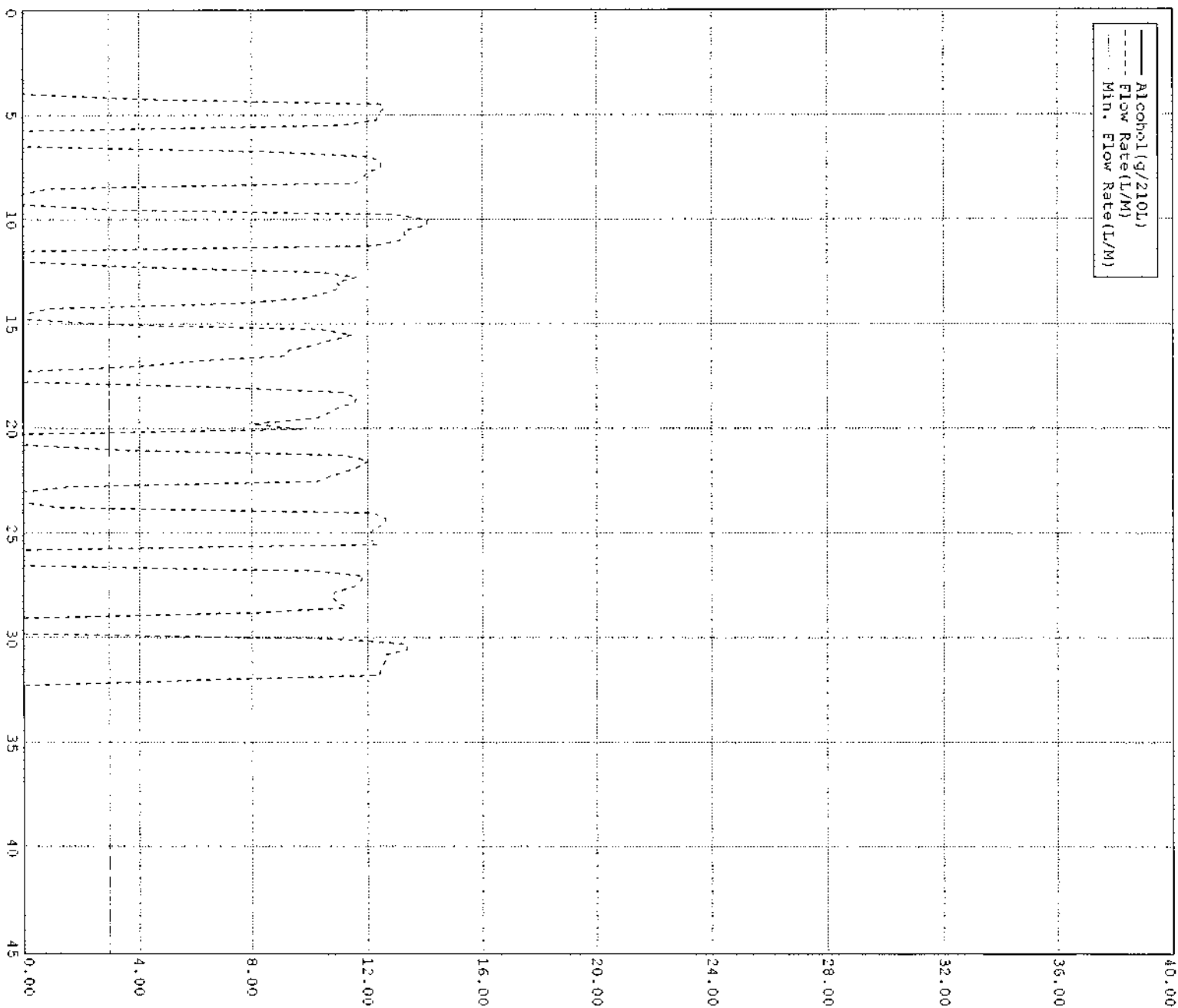
OPERATOR NAME:
EXCEEDED ATTEMPTS
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.16: 0.078
IOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK
BLANK TEST PASSED 15:12
INTERNAL STANDARD VERIFIED 15:12
EXTERNAL STANDARD 0.080 15:12
BLANK TEST 0.000 15:13
SUBJECT SAMPLE XXX 15:14

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100666

Date: 12/02/2015
Time: 15:27:56

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

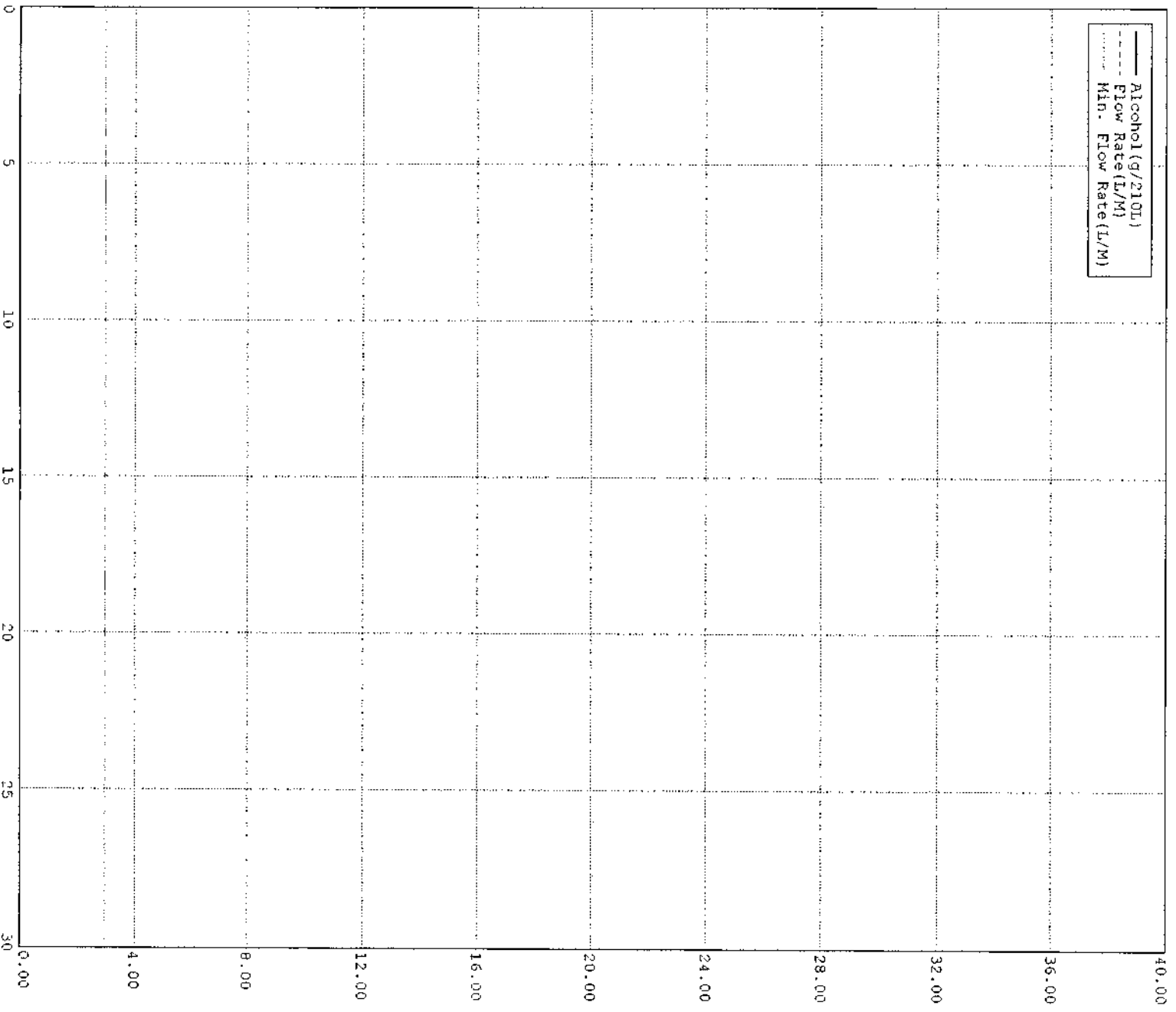
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.16: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK
BLANK TEST PASSED 15:29
INTERNAL STANDARD 0.000 15:29
EXTERNAL STANDARD VERIFIED 15:29
BLANK TEST 0.079 15:29
0.000 15:30

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100666

Date: 12/02/2015
Time: 15:44:35

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 29.16: 0.078
LOT #: 01315080A3
EXPIRATION: 02/05/2017

DIAGNOSTIC CHECK	PASSED	15:48
BLANK TEST	0.000	15:48
INTERNAL STANDARD	VERIFIED	15:48
EXTERNAL STANDARD	0.080	15:48
BLANK TEST	0.000	15:49
SUBJECT SAMPLE (Vol=2.34L)	0.000	15:50
BLANK TEST	0.000	15:51
EXTERNAL STANDARD	0.080	15:51
BLANK TEST	0.000	15:52

