

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 100697 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)
 - 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 00813020A1 Exp 3/1/15
- ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 3/1/15
- iii. 0.080g/210L Mnf ILMO Lot 09214080A2 Exp 5/1/16
- 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: 100697

Date: 02/18/2015
Time: 08:57:56

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO
Flow Rate = 4.397 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: 100697

Date: 02/18/2015
Time: 9:30 AM

Temperatures (°C)
Sample Cell: 48.7°C
Breath Tube: 47.9°C

Current Barometer 29.6 in
Volume (Ltr) 1.49

Settings
Lamp: 1.68 V
Bias: 80 V
Cooler: 1.63 V
Chopper: 542 Hz

Voltages (V)
Flow: 1.07 V
Detector: -0.042 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 09/18/2012
Time: 12:41:18

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 1.000400 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0048 0.0010 <= b2 < 0.0100
b3 = 0.0007 0.0000 <= b3 < 0.0040
Xq = 0.0864 0.0500 <= Xq < 0.2000
a21 = 1.129466 1.050 <= a21 < 1.300
a31 = 0.479692 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 02/18/2015
Time: 09:54:36

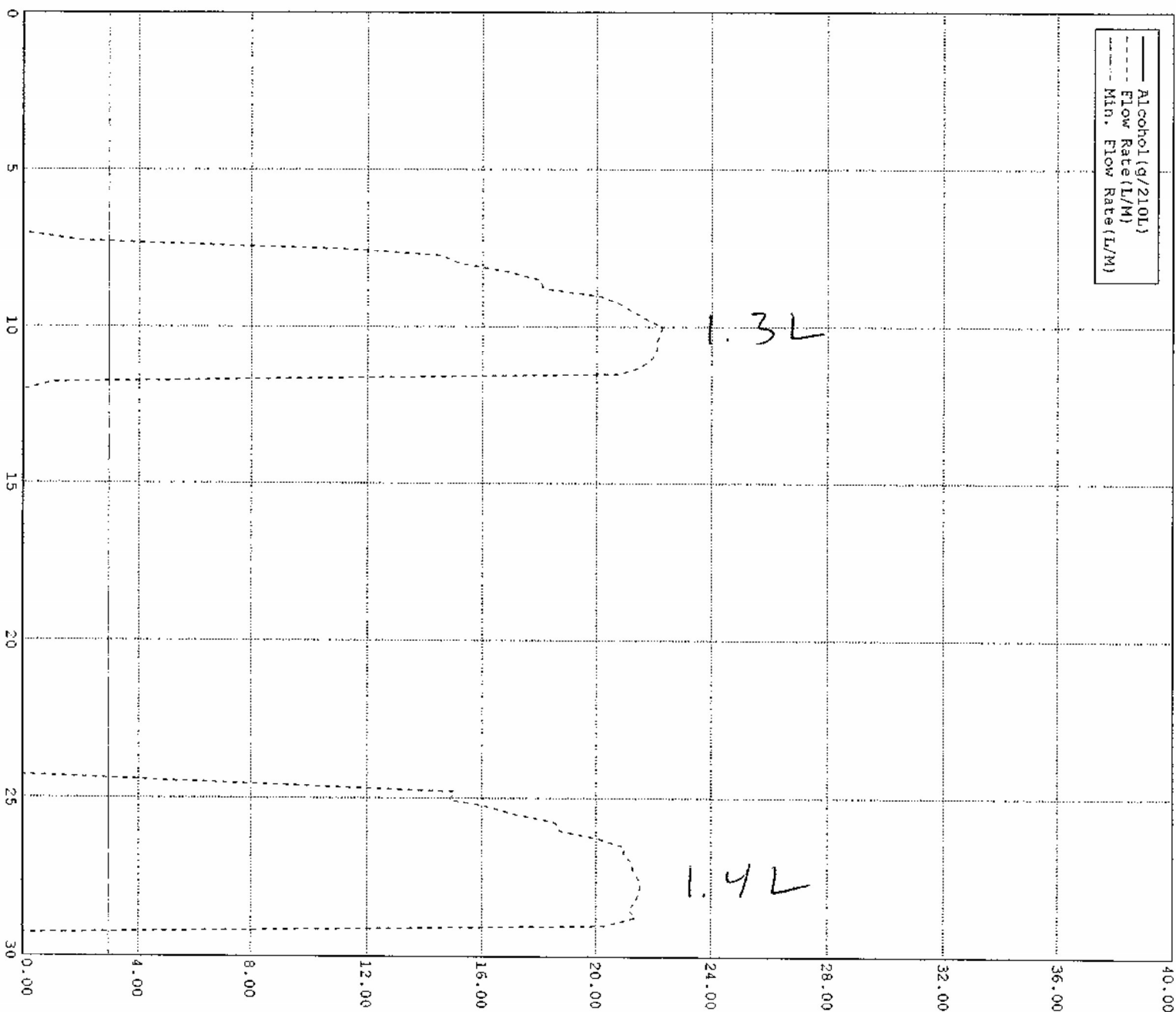
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.59: 0.079
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:55
BLANK TEST	0.000	09:55
INTERNAL STANDARD	VERIFIED	09:55
EXTERNAL STANDARD	0.078	09:56
BLANK TEST	0.000	09:57
SUBJECT SAMPLE (Vol=1.51L)	0.000	09:57
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.078	09:58
BLANK TEST	0.000	09:59



LINEARITY CHECK

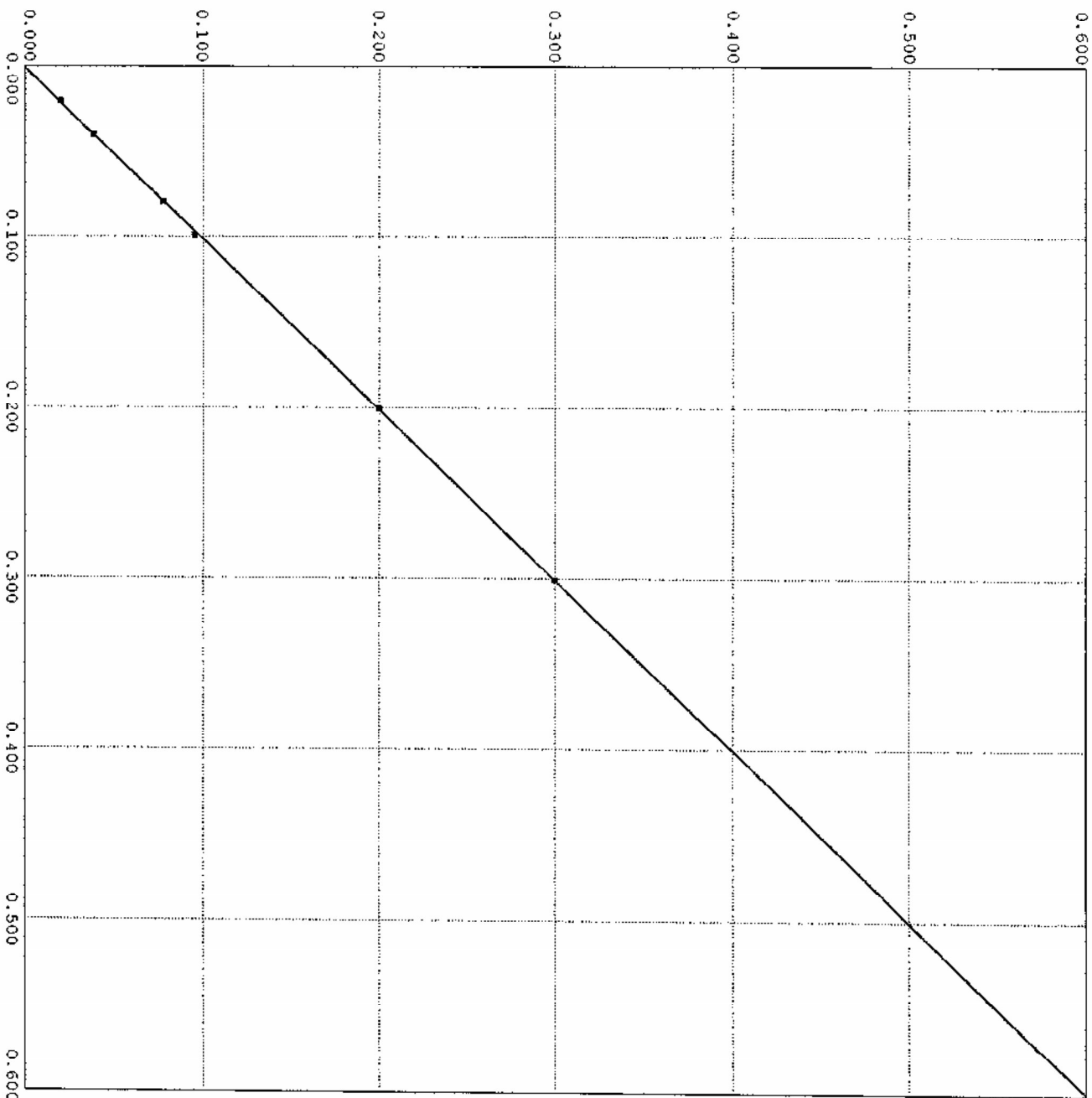
Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 02/18/2015
Time: 12:55:02

SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.020	0.0208	0.0004
0.040	0.0396	0.0005
0.079	0.0786	0.0005
0.099	0.0962	0.0004
0.200	0.2006	0.0005
0.300	0.3006	0.0011

SLOPE = 1.003283
 R^2 = 0.999853



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100697

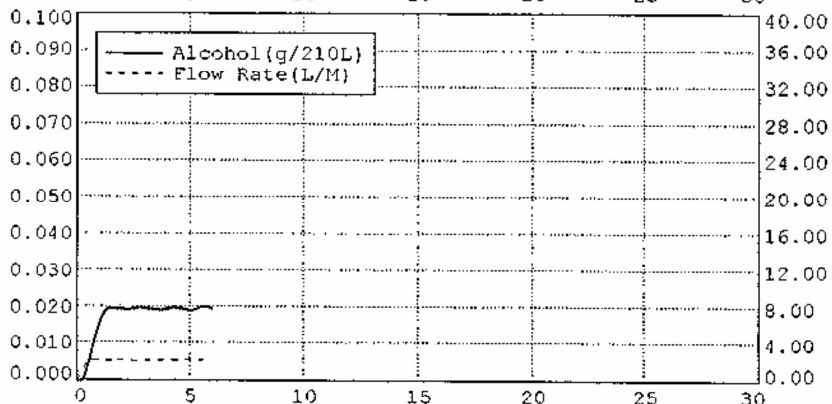
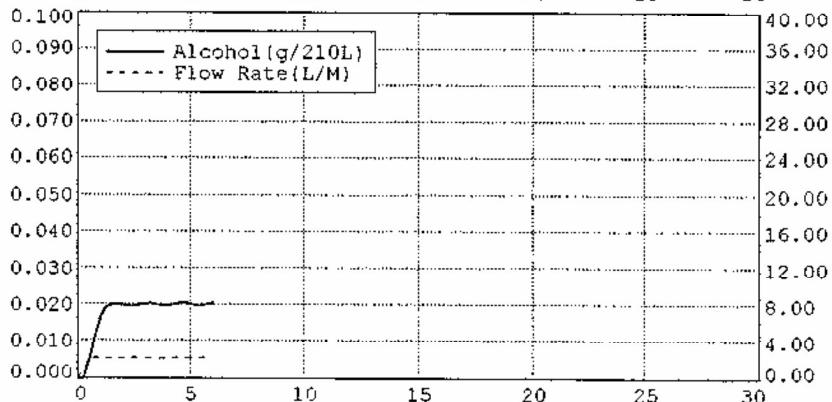
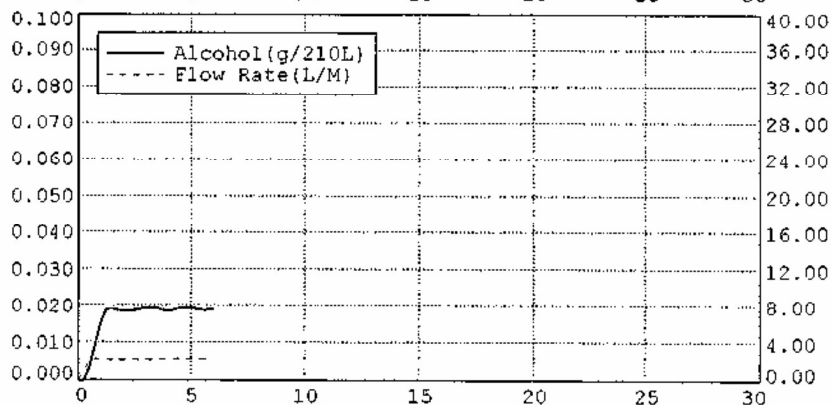
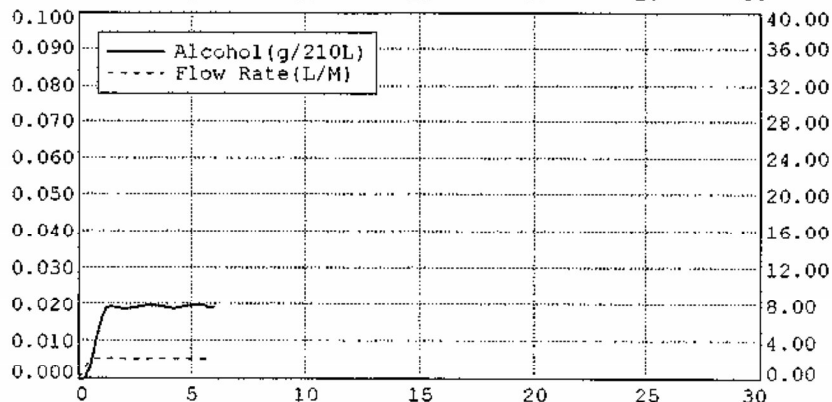
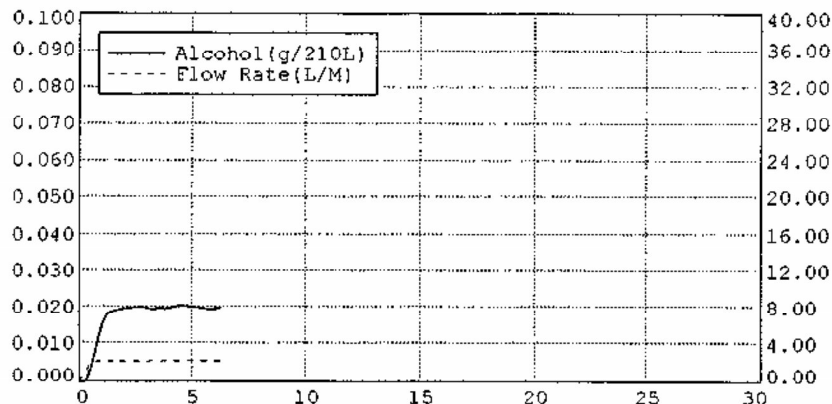
Date: 02/18/2015
Time: 12:55:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.61: 0.020
LOT #: 00813020A1
EXPIRATION: 03/01/2015
TANK PRESSURE: 350 psi

BLANK TEST	0.000	13:09
INTERNAL STANDARD	VERIFIED	13:09
EXTERNAL STANDARD	0.021	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.021	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.020	13:12
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.021	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.021	13:14
BLANK TEST	0.000	13:15

Average = 0.0208
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100697

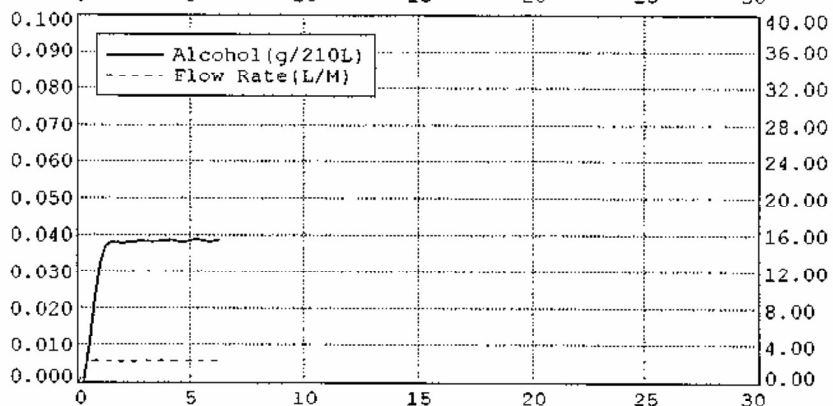
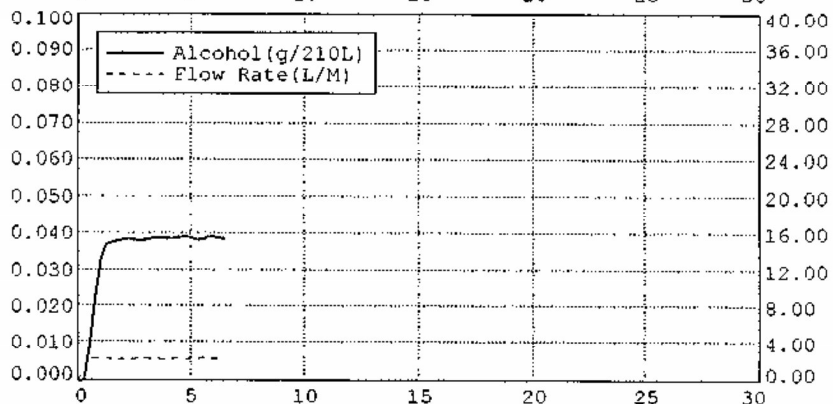
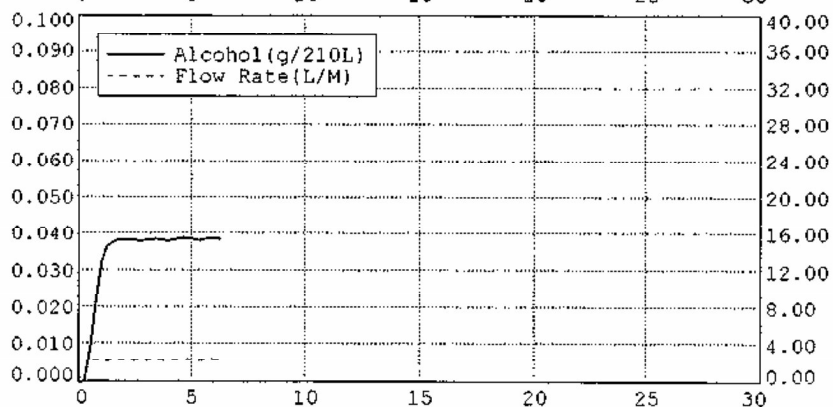
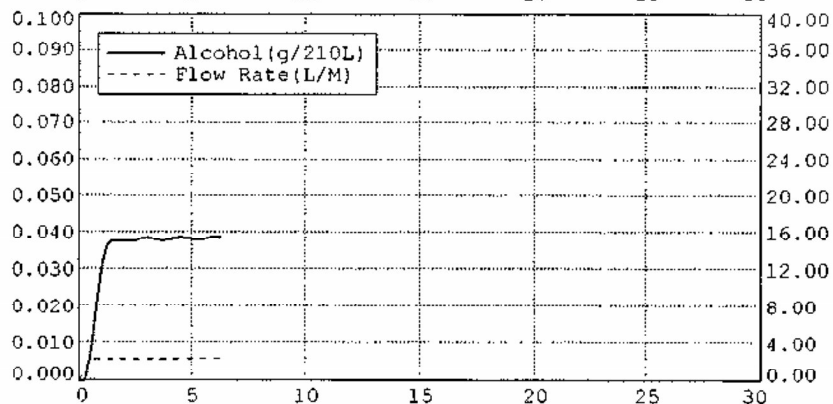
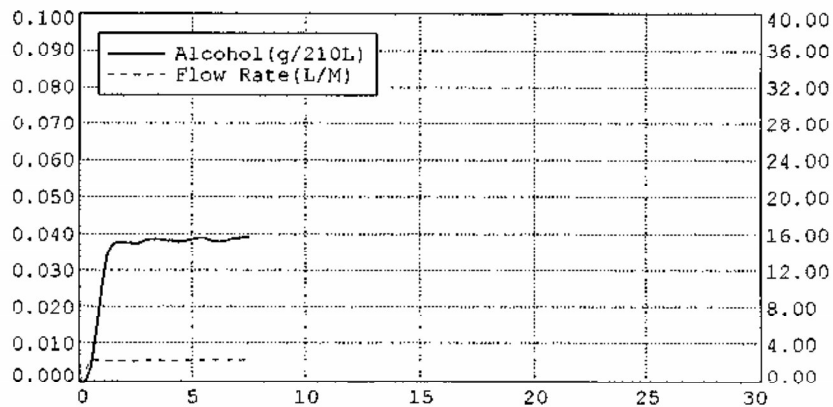
Date: 02/18/2015
Time: 13:22:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.61: 0.040
LOT #: 00813040A2
EXPIRATION: 03/01/2015
TANK PRESSURE: 621 psi

BLANK TEST	0.000	13:23
INTERNAL STANDARD	VERIFIED	13:23
EXTERNAL STANDARD	0.040	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.039	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.040	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.040	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.039	13:28
BLANK TEST	0.000	13:29

Average = 0.0396
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100697

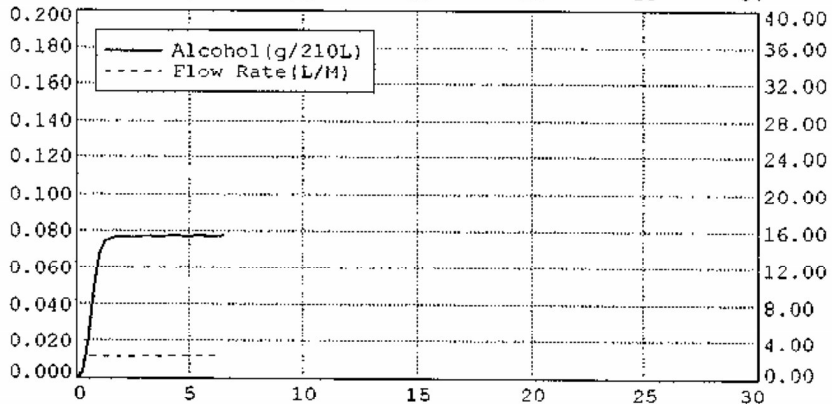
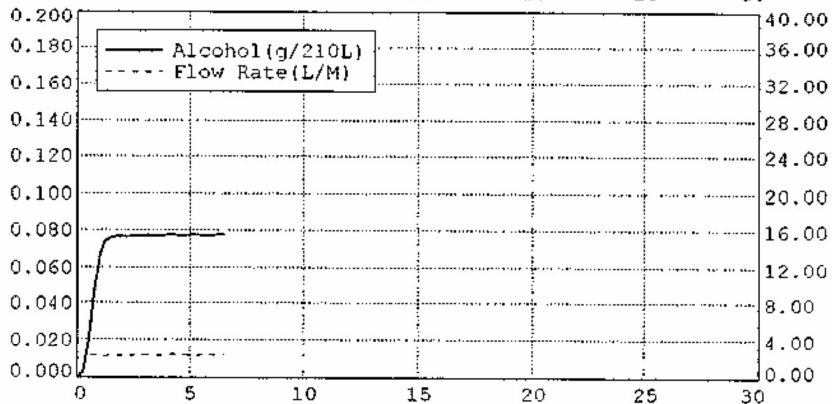
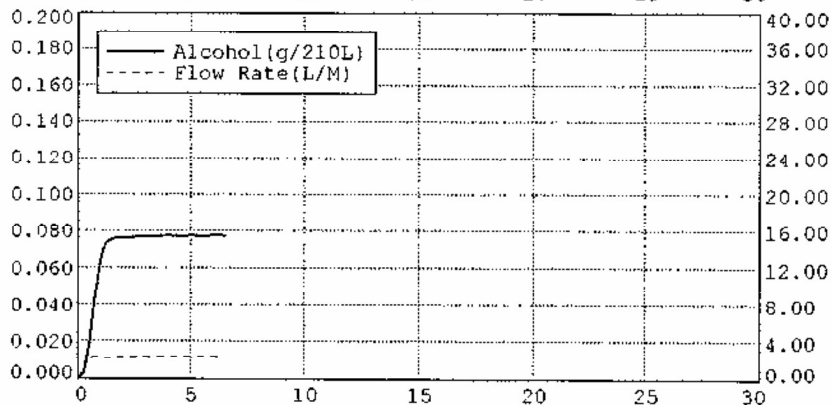
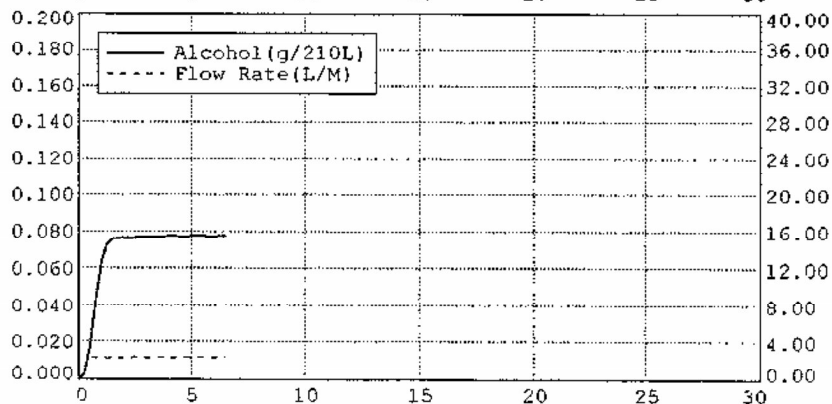
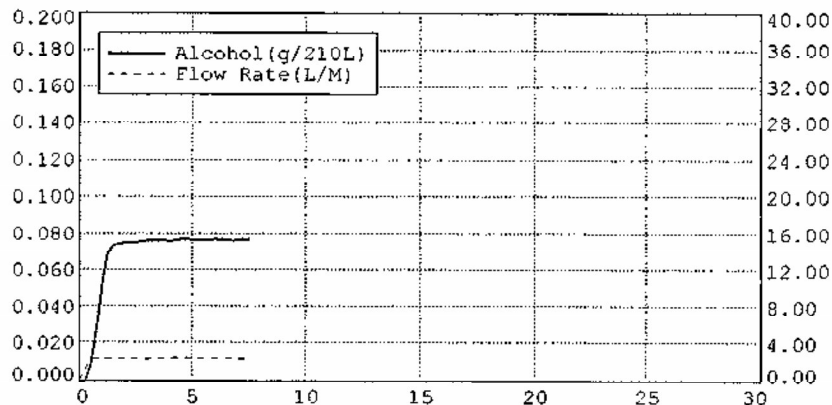
Date: 02/18/2015
Time: 13:30:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: 09214080A2
EXPIRATION: 05/01/2016
TANK PRESSURE: 933 psi

BLANK TEST	0.000	13:32
INTERNAL STANDARD	VERIFIED	13:32
EXTERNAL STANDARD	0.078	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.079	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.079	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.079	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.078	13:36
BLANK TEST	0.000	13:37

Average = 0.0786
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100697

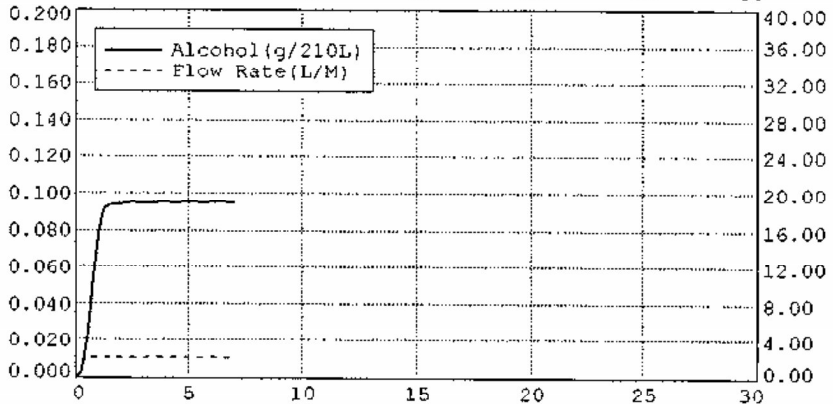
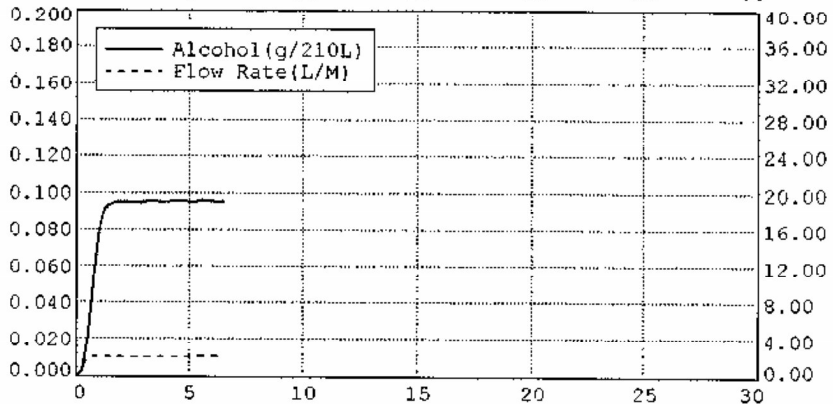
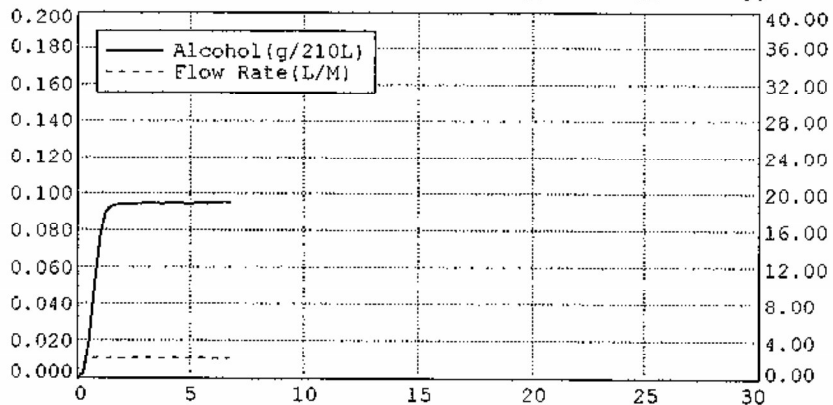
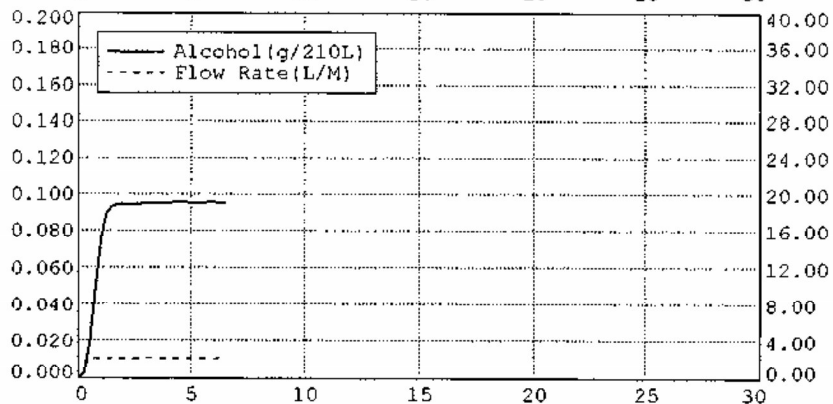
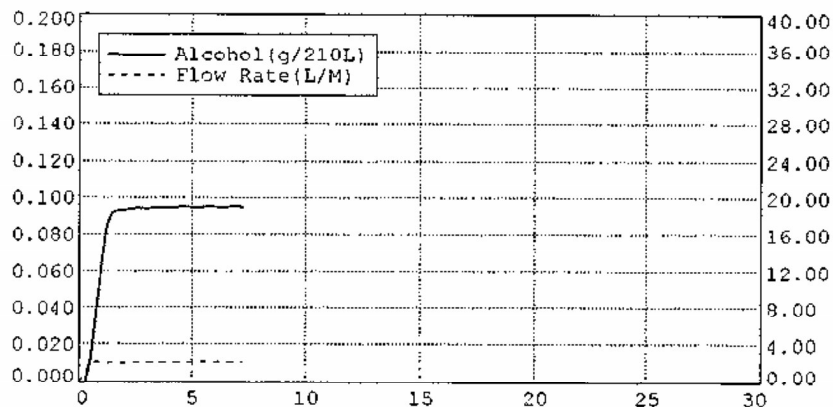
Date: 02/18/2015
Time: 13:39:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.61: 0.099
LOT #: 00813100A3
EXPIRATION: 03/01/2015
TANK PRESSURE: 347 psi

BLANK TEST	0.000	13:40
INTERNAL STANDARD	VERIFIED	13:41
EXTERNAL STANDARD	0.096	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.096	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.096	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.097	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.096	13:45
BLANK TEST	0.000	13:46

Average = 0.0962
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 02/18/2015
Time: 13:48:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200

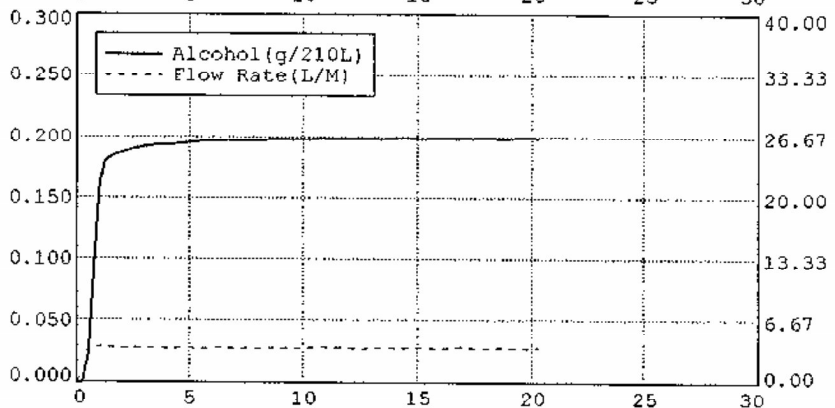
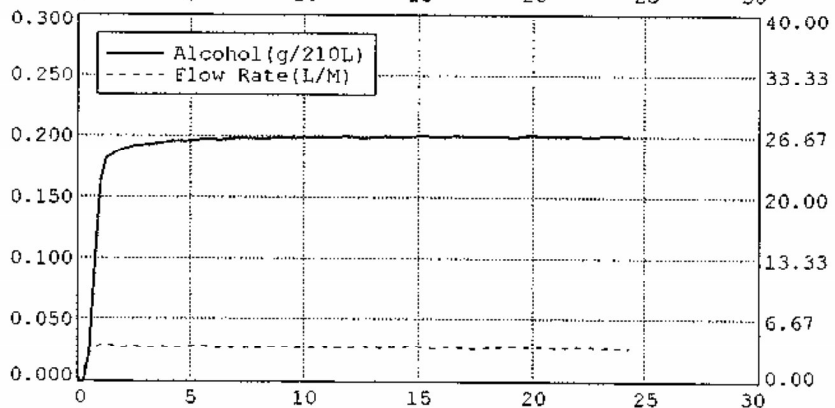
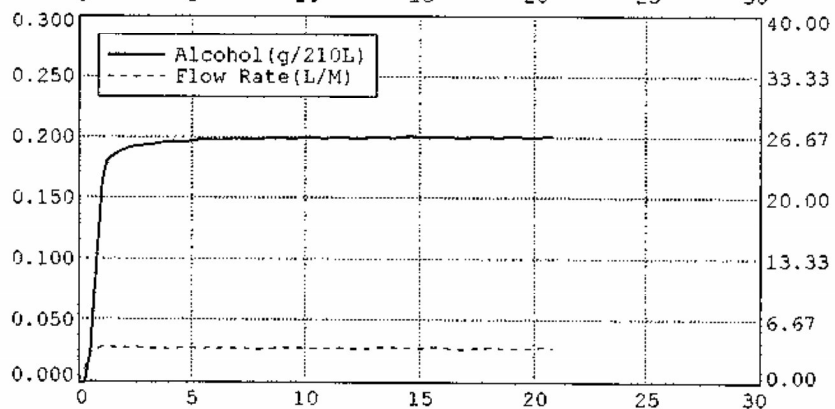
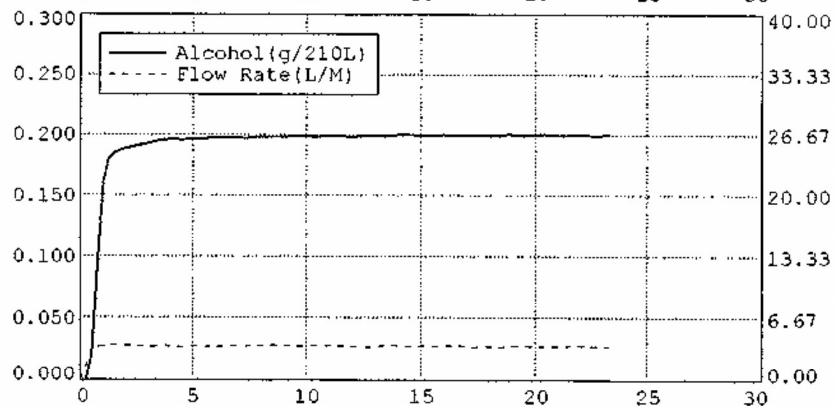
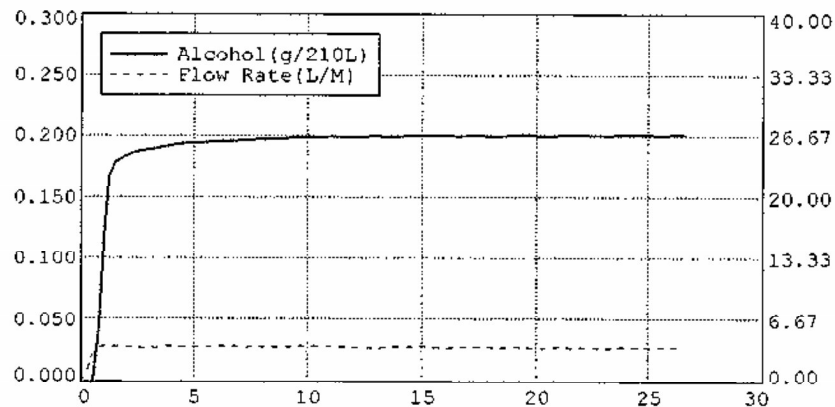
LOT #: 13220

EXPIRATION: 08/05/2015

BLANK TEST	0.000	13:50
INTERNAL STANDARD	VERIFIED	13:50
EXTERNAL STANDARD	0.201	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.200	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.201	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.201	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.200	13:56
BLANK TEST	0.000	13:57

Average = 0.2006

Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100697

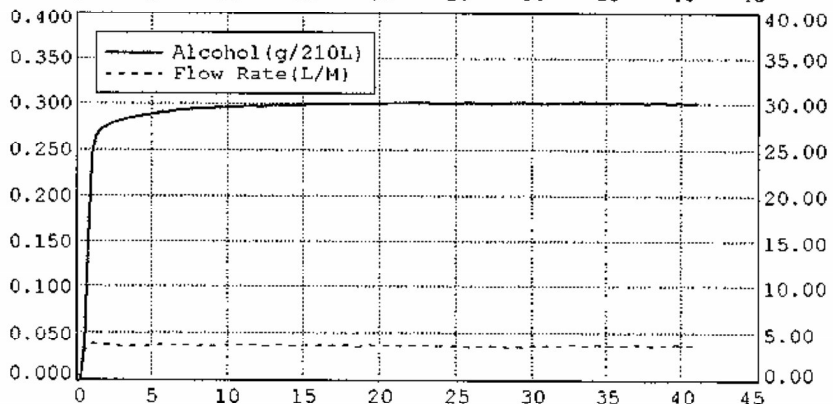
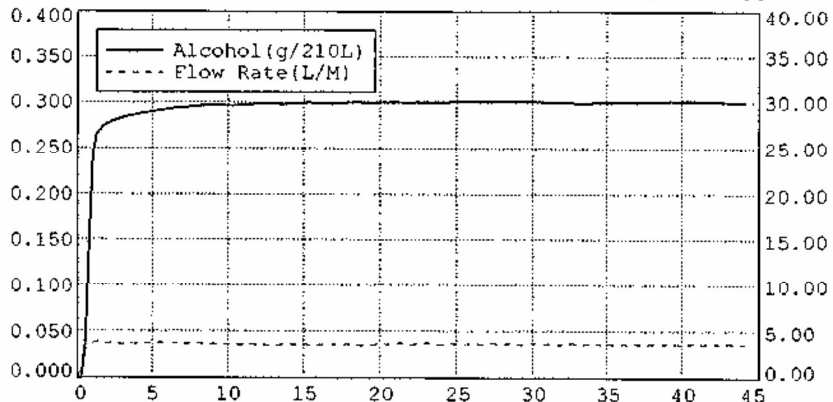
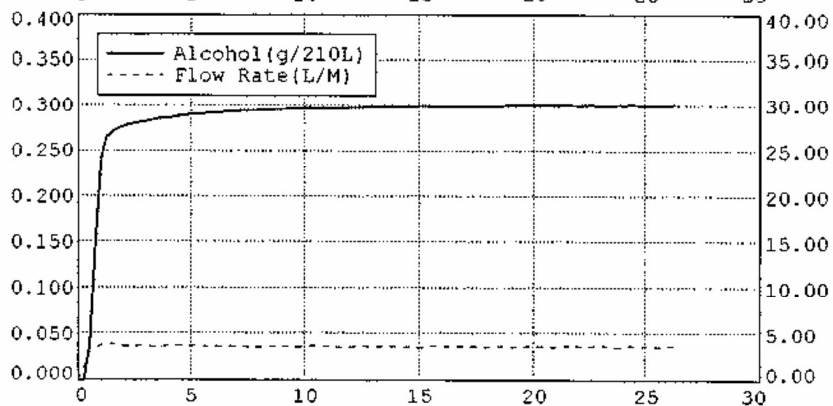
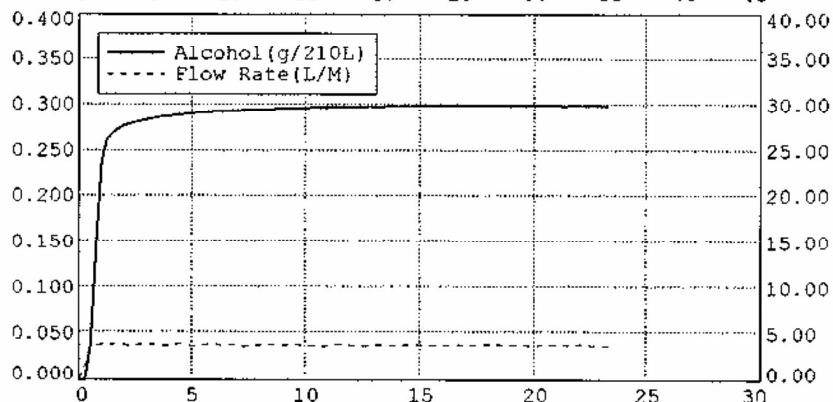
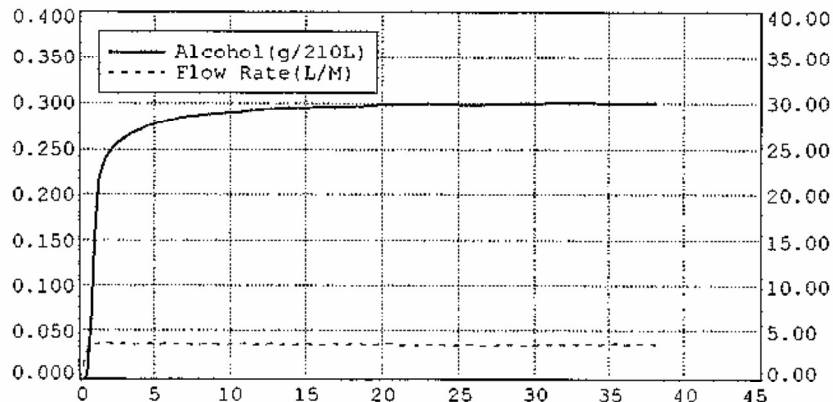
Date: 02/18/2015
Time: 14:03:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 13080
EXPIRATION: 03/19/2015

BLANK TEST	0.000	14:05
INTERNAL STANDARD	VERIFIED	14:05
EXTERNAL STANDARD	0.301	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.299	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.300	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.301	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.302	14:12
BLANK TEST	0.000	14:13

Average = 0.3006
Std Dev = 0.0011



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100697

Date: 02/19/2015
Time: 09:45:04

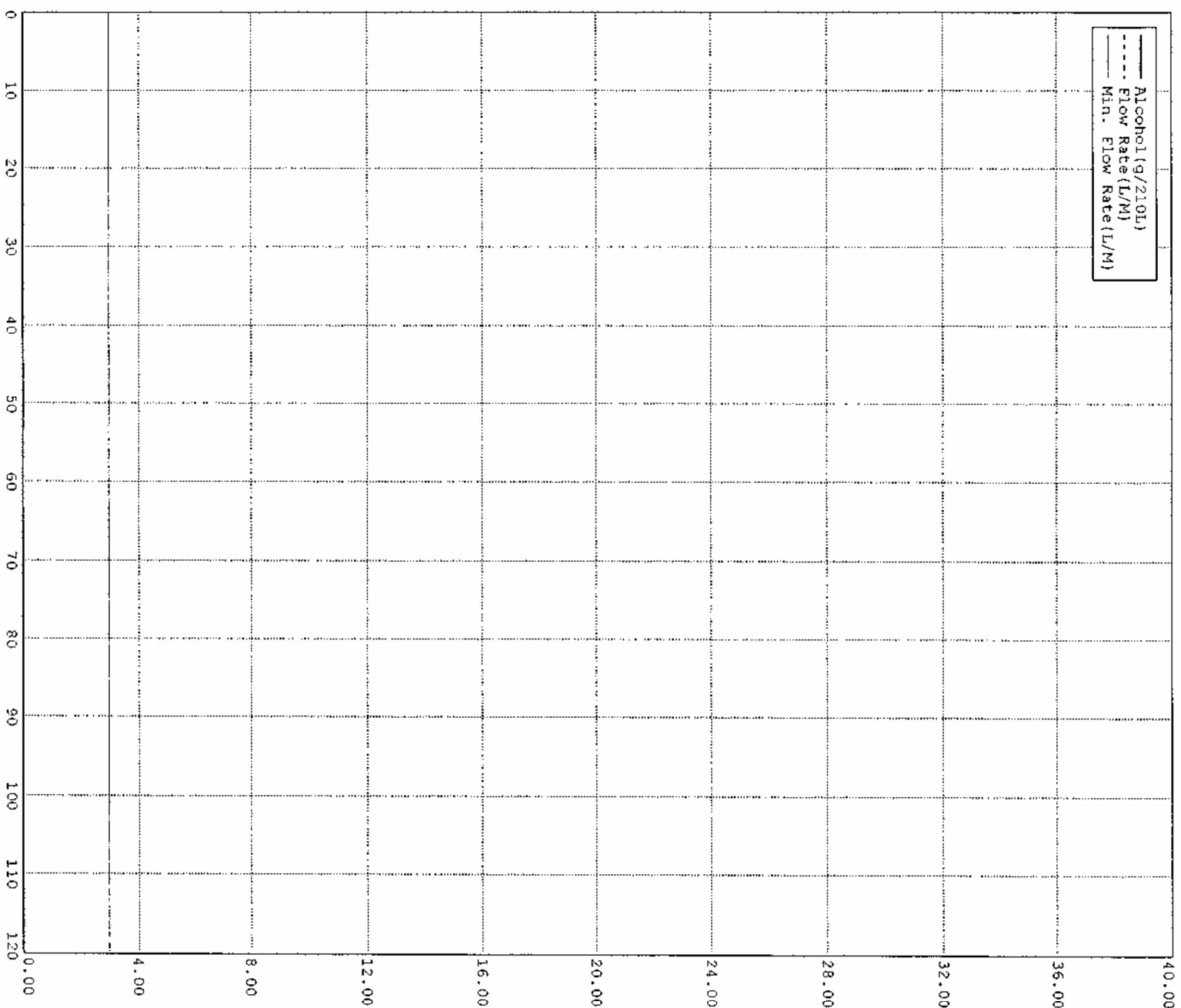
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:46
BLANK TEST	0.000	09:46
INTERNAL STANDARD	VERIFIED	09:46
EXTERNAL STANDARD	0.079	09:47
BLANK TEST	0.000	09:47
SUBJECT SAMPLE	INCOMPLETE	09:49



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 02/19/2015
Time: 09:52:57

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

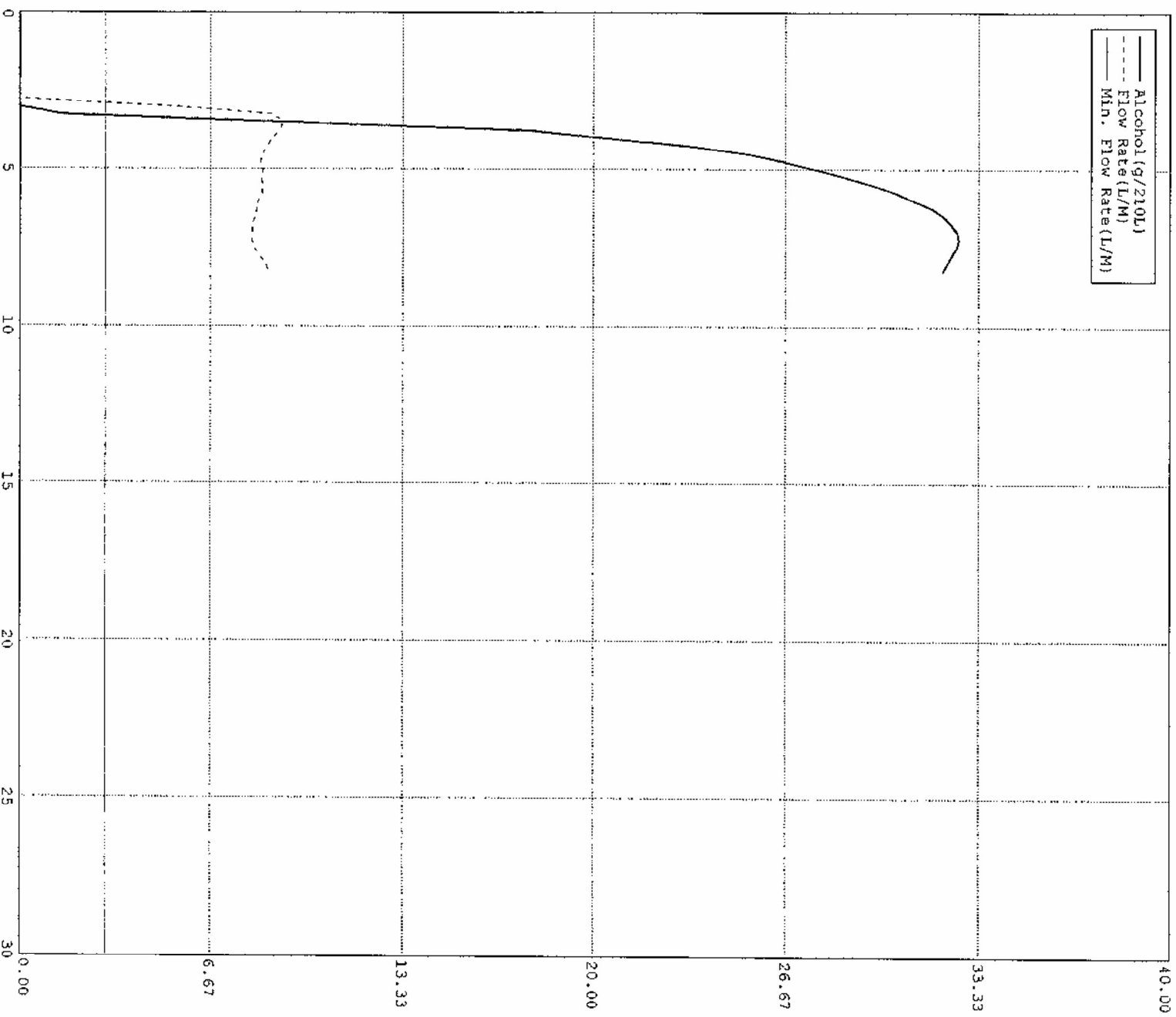
OPERATOR NAME:
INVALID XXXX
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX

CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:56
BLANK TEST	0.000	09:56
INTERNAL STANDARD	VERIFIED	09:56
EXTERNAL STANDARD	0.079	09:56
BLANK TEST	0.000	09:57
SUBJECT SAMPLE	INVALID	09:58



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 02/19/2015
Time: 10:20:18

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

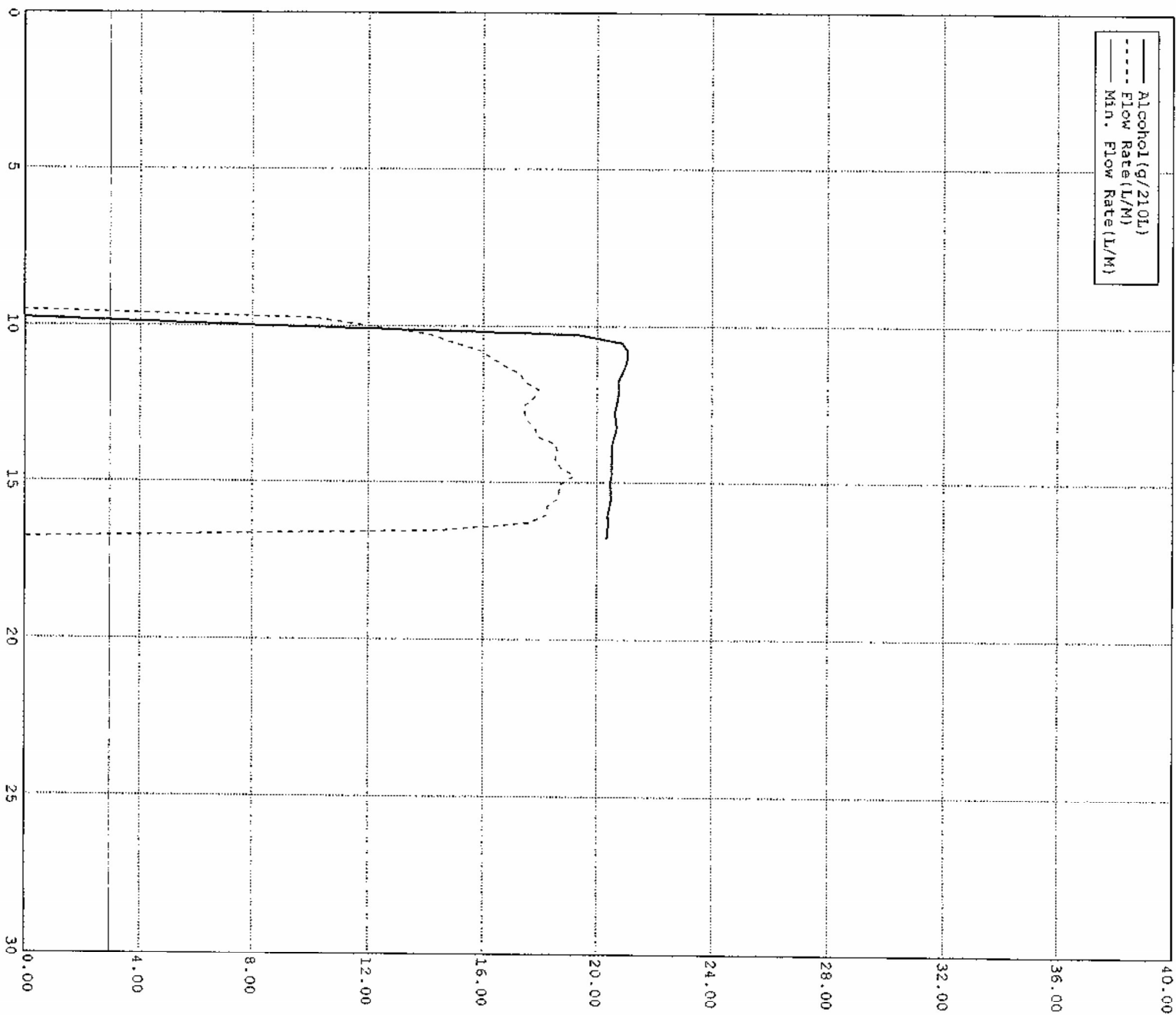
OPERATOR NAME:
INTERFERENCE ACETONE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	10:21
BLANK TEST	0.000	10:21
INTERNAL STANDARD	VERIFIED	10:21
Xq = 0.085 (1.21%)		
EXTERNAL STANDARD	0.079	10:22
X[1] = 0.0788 (-0.0015)	(0.0014)	
BLANK TEST	0.000	10:23
SUBJECT SAMPLE	XXX	10:23
X[1] = 0.1025 (-0.0186)	(-0.0010)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 02/19/2015
Time: 10:29:37

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

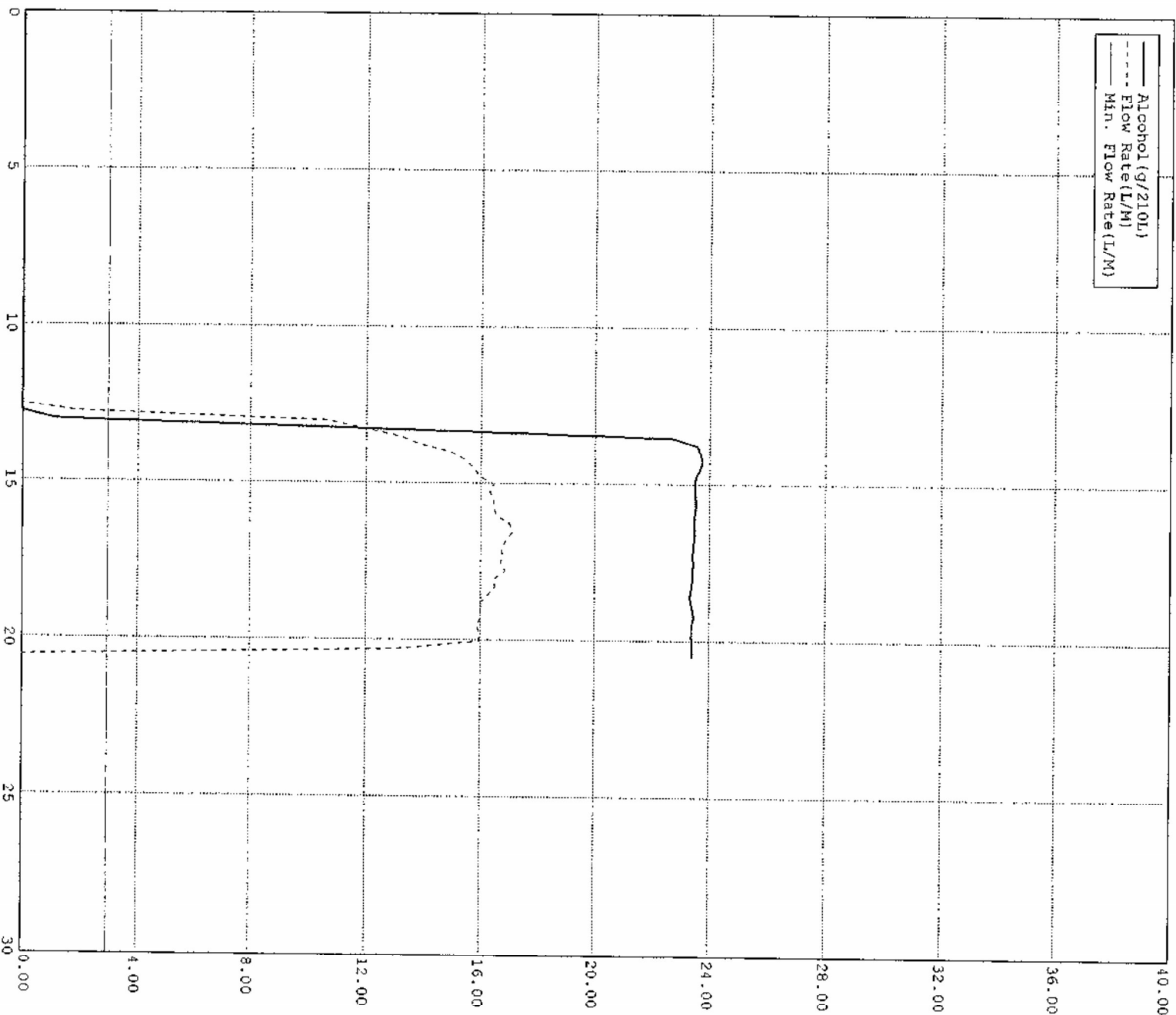
OPERATOR NAME:
INTERFERENCE IPA
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.85: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK
BLANK TEST PASSED 10:31
INTERNAL STANDARD VERIFIED 10:32
Xq = 0.086 (0.91%)
EXTERNAL STANDARD 0.079 10:32
X[1] = 0.0790 (-0.0016) (0.0011)
BLANK TEST 0.000 10:33
SUBJECT SAMPLE XXX 10:33
X[1] = 0.1171 (-0.0186) (0.0002)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100697

Date: 02/19/2015
Time: 10:39:18

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE NEGATIVE
OPERATOR'S #: XXXX

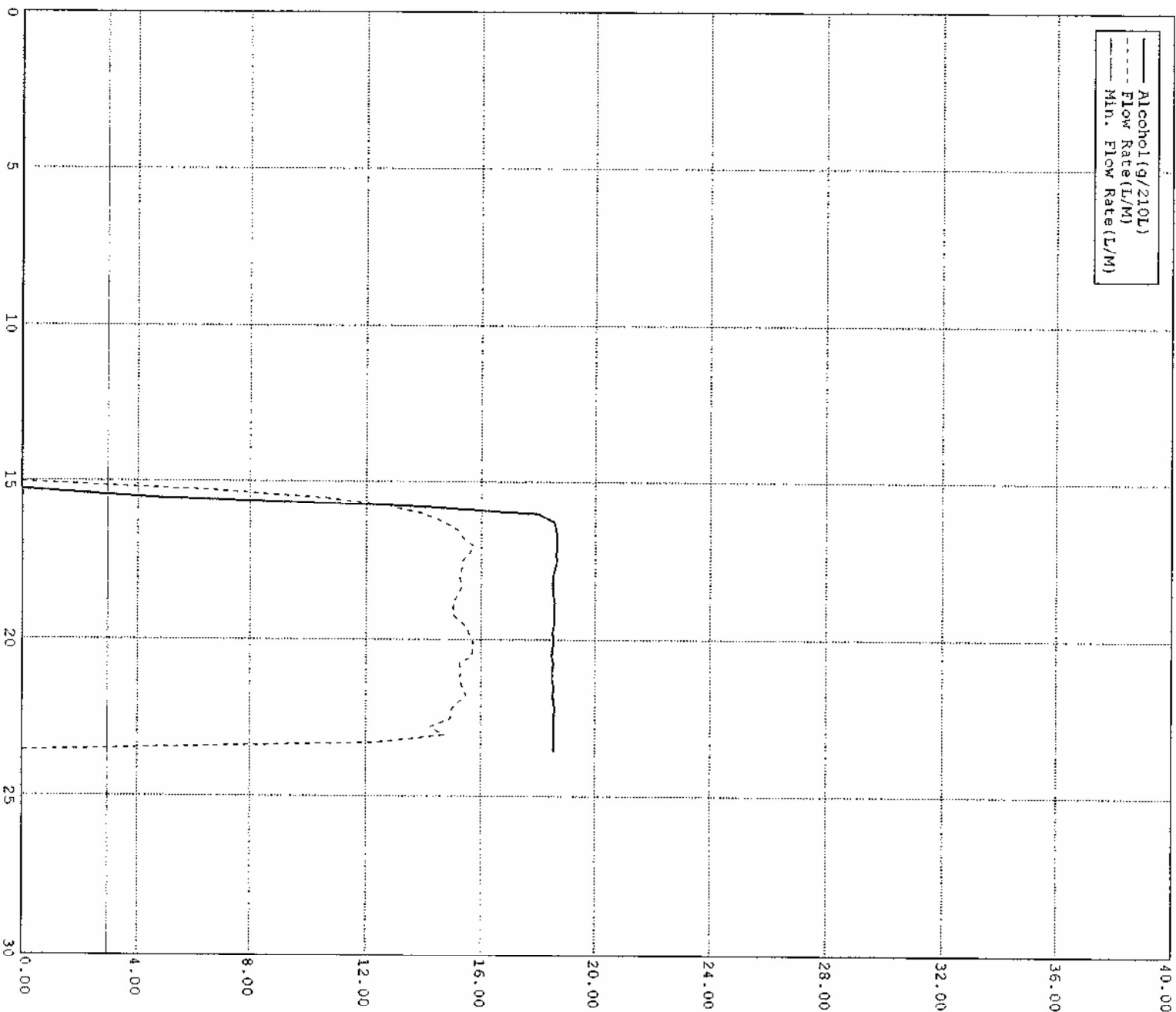
DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.86: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	10:42
BLANK TEST	0.000	10:42
INTERNAL STANDARD	VERIFIED	10:42
Xq = 0.086 (0.40%)	0.079	10:42
EXTERNAL STANDARD	X[1] = 0.0793 (-0.0006)	(0.0014)
BLANK TEST	0.000	10:43
SUBJECT SAMPLE (Vol=2.02L)	0.093	10:43
X[1] = 0.0932 (-0.0001)	(-0.0009)	
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.079	10:45
X[1] = 0.0787 (-0.0021)	(0.0008)	
BLANK TEST	0.000	10:45

Filter 2 Average = -0.0015
Filter 3 Average = 0.0012

CTF 2/19/15



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 02/19/2015
Time: 12:01:50

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

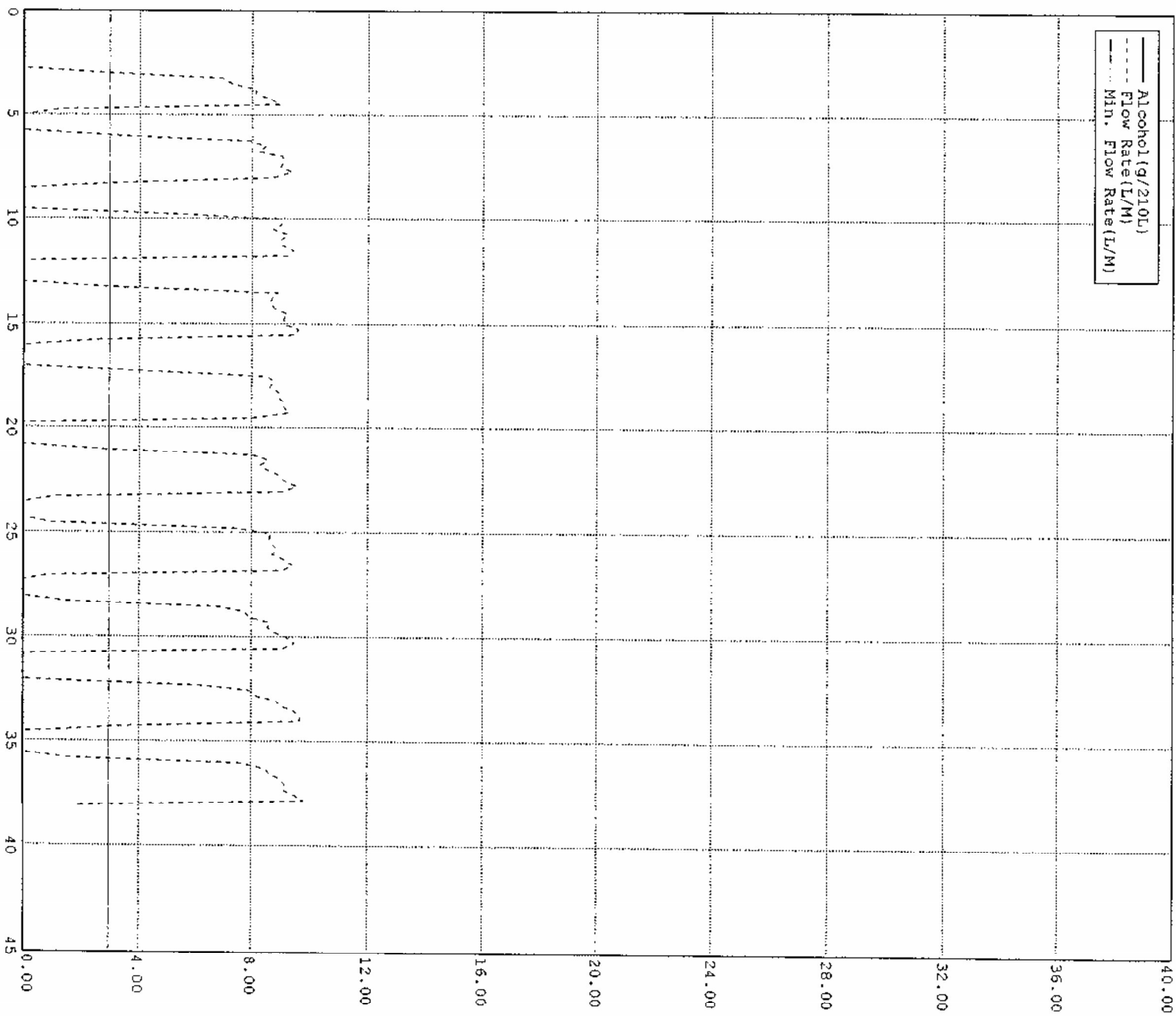
OPERATOR NAME:
EXCEEDED ATTEMPTS
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.88: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK PASSED 12:02
BLANK TEST 0.000 12:02
INTERNAL STANDARD VERIFIED 12:03
EXTERNAL STANDARD 0.079 12:03
BLANK TEST 0.000 12:04
SUBJECT SAMPLE XXX 12:04

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 02/19/2015
Time: 12:10:35

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

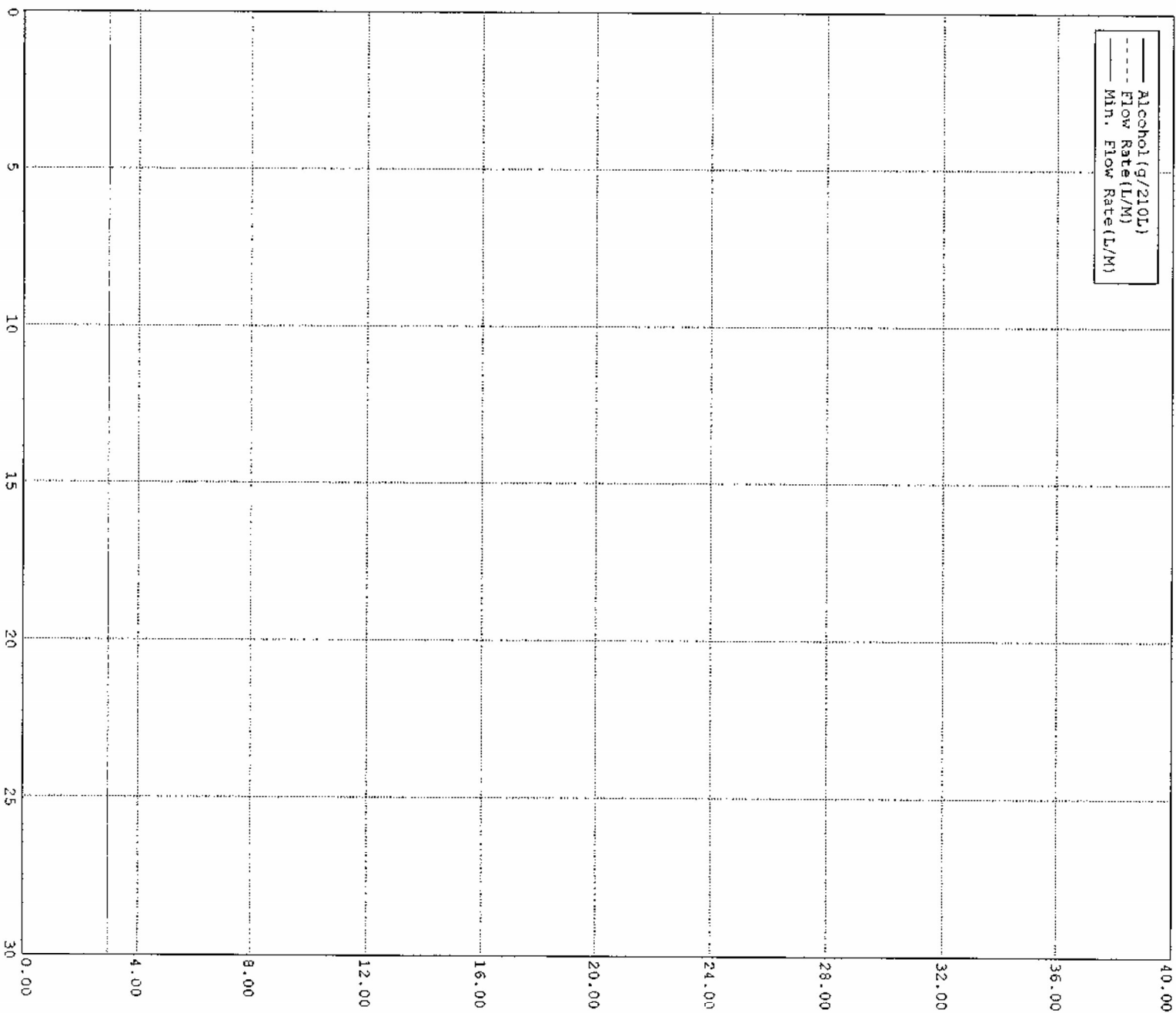
OPERATOR NAME:
RPT XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.88: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK
BLANK TEST PASSED 12:12
INTERNAL STANDARD VERIFIED 12:12
EXTERNAL STANDARD 0.080 12:12
BLANK TEST 0.000 12:13

RPT DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 02/19/2015
Time: 12:27:45

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 29.88: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	12:28
BLANK TEST	0.000	12:28
INTERNAL STANDARD	VERIFIED	12:29
EXTERNAL STANDARD	0.079	12:29
BLANK TEST	0.000	12:30
SUBJECT SAMPLE (Vol=3.11L)	0.000	12:30
BLANK TEST	0.000	12:31
EXTERNAL STANDARD	0.079	12:31
BLANK TEST	0.000	12:32

