

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 6/11/2014
Effective: 6/11/2014

Version: DMCEF 2014 R0
Status: Active

Instrument S/N 100351 Analyst CTF Start Date 9/18/14

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 1.5 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 14130 Exp 5/12/16
 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
 - i. Acetone - Mnf Guth Lot 14030 Level 0.10 Exp 1/20/16
 1. Simulator S/N SD1198 Date Calibrated 2/20/14
 - ii. Isopropanol - Mnf Guth Lot 14030 Level 0.10 Exp 1/20/16
 1. Simulator S/N SD1202 Date Calibrated 2/20/14
 - iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15
 1. Simulator S/N DR4161 Date Calibrated 2/19/14

d. RFI

7. Verify stylus is calibrated
8. Reset Options
9. Clear Memory
10. Verification of Calibration
11. Non-Drinking Subject Test (attached)
12. Upload

End Date 9/22/14

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 09/18/2014
Time: 14:54:47

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 46.9°C PASSED

PUMP INFO

Flow Rate = 4.587 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: 100351

Date: 09/18/2014
Time: 3:10 PM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 45.8°C

Current Barometer 28.8 in
Volume (Ltr) 1.47

Settings

Lamp: 1.82 V
Bias: 80 V
Cooler: 1.93 V
Chopper: 542 Hz

Voltages (V)

Flow: 1.04 V
Detector: 0.057 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 07/31/2014
Time: 13:25:55

OPERATOR NAME:
R MARTIN
CERTIFICATE #: GUTH 2100, DR7001, 34.0C

Ca = 0.1000
CAL = 0.968230 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0051 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.1103 0.0500 <= Xq < 0.2000
a21 = 1.167066 1.050 <= a21 < 1.300
a31 = 0.468488 0.300 <= a31 < 0.800

972.45
35.9%
72.9F

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 09/18/2014
 Time: 15:31:34

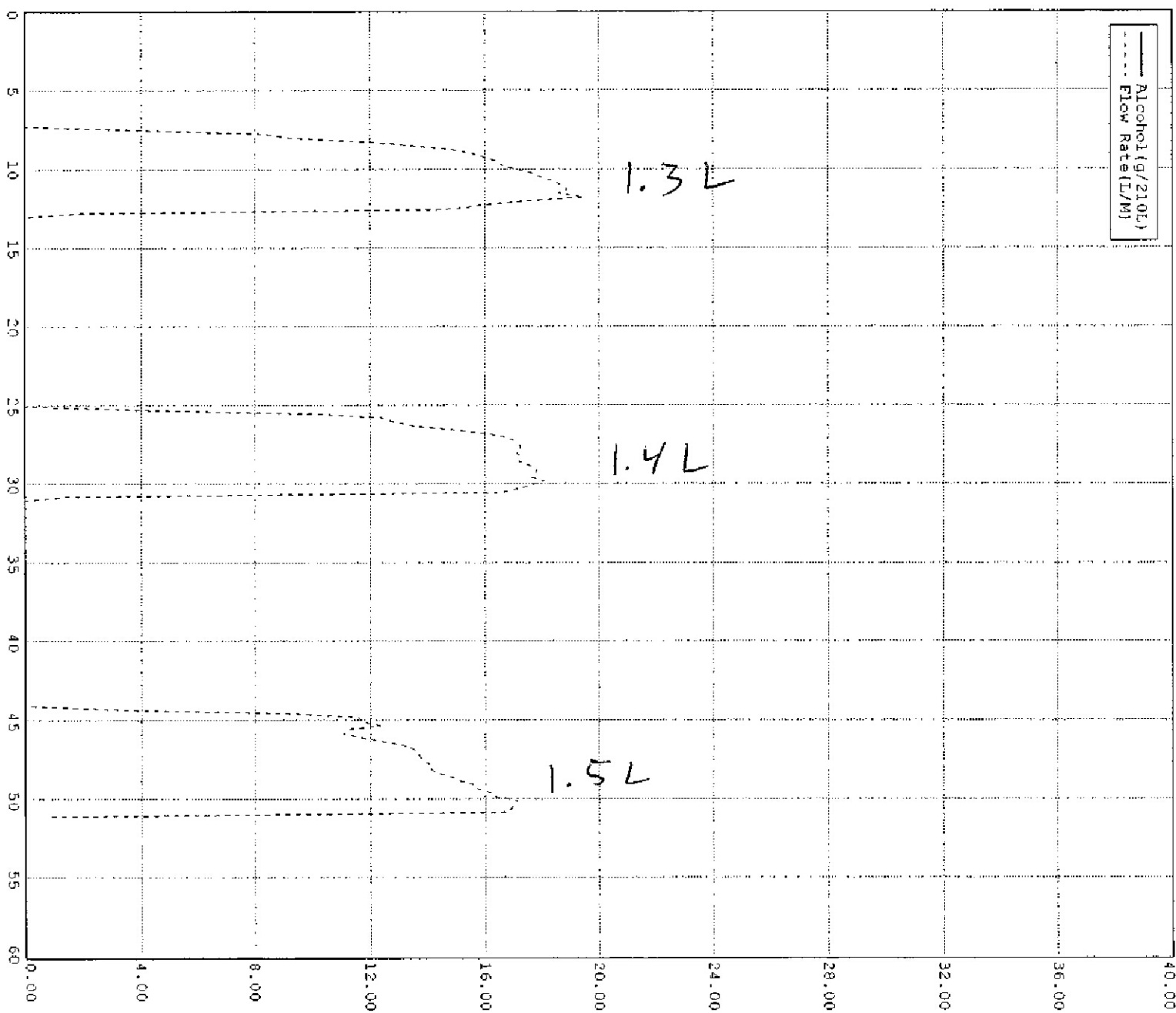
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.76: 0.076
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

TEST TYPE	PASSED	TIME
DIAGNOSTIC CHECK	0.000	15:32
BLANK TEST	0.000	15:32
INTERNAL STANDARD	0.076	15:33
EXTERNAL STANDARD	0.000	15:34
BLANK TEST	0.000	15:34
SUBJECT SAMPLE	0.000	15:35
BLANK TEST	0.076	15:36
EXTERNAL STANDARD	0.000	15:36
BLANK TEST	0.000	15:36



LINEARITY CHECK

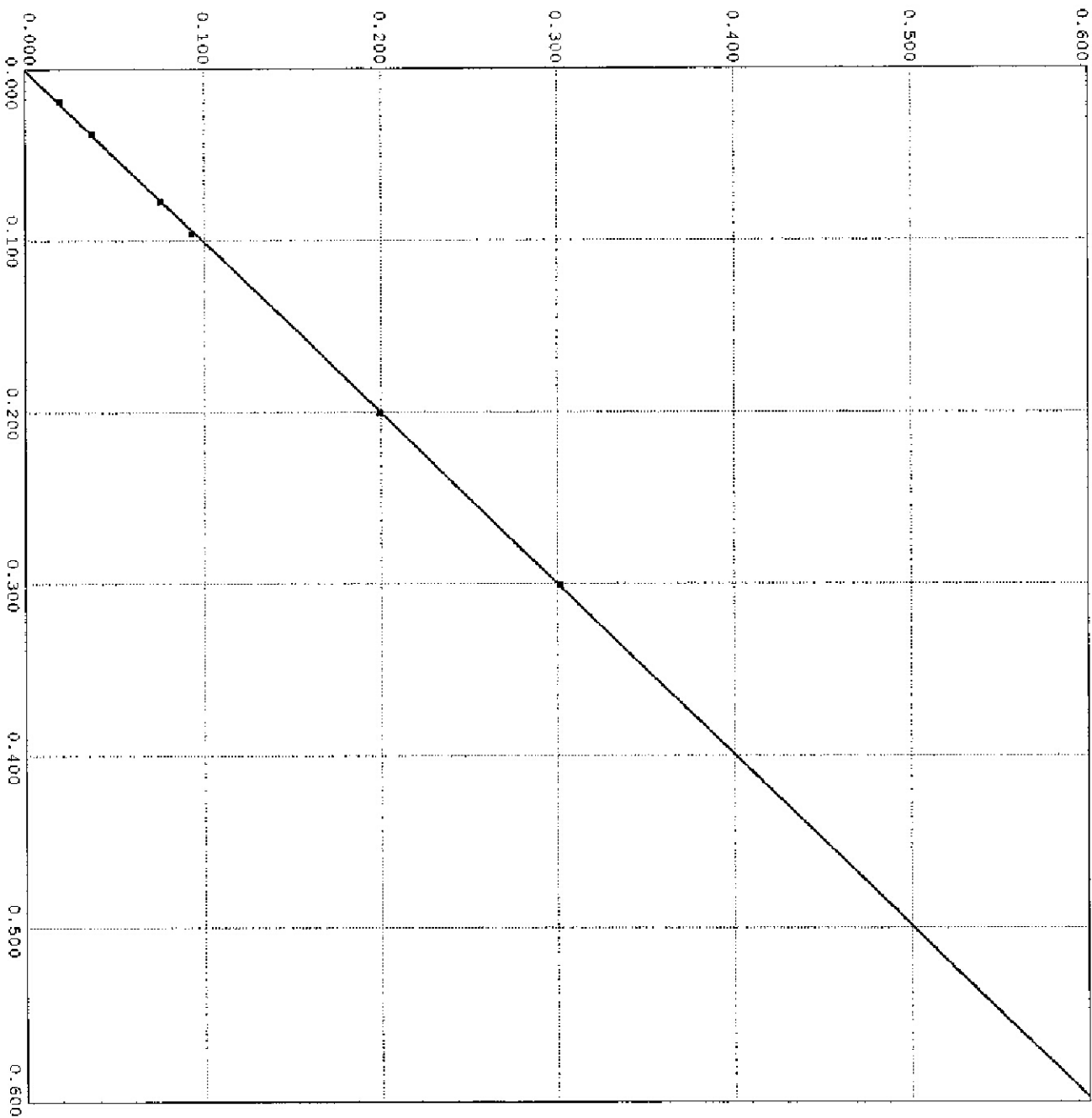
Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 09/19/2014
 Time: 09:37:34

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0003
0.038	0.0385	0.0002
0.077	0.0768	0.0003
0.096	0.0938	0.0002
0.200	0.2001	0.0004
0.300	0.3024	0.0006

SLOPE = 1.005786
 R² = 0.999834



LINEARITY CHECK: Control Test 1

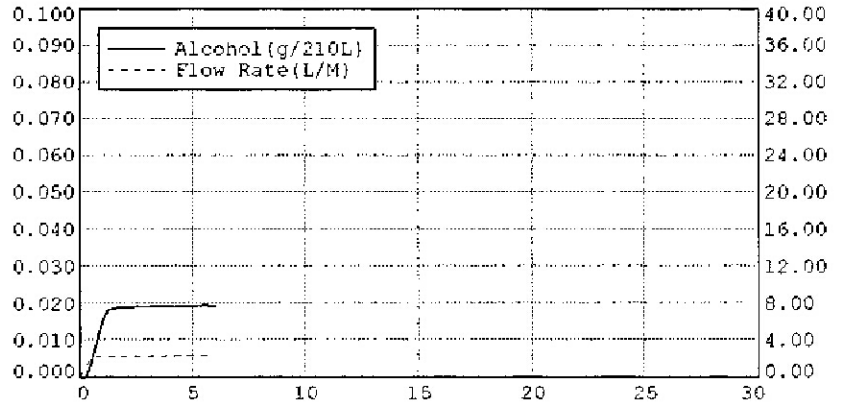
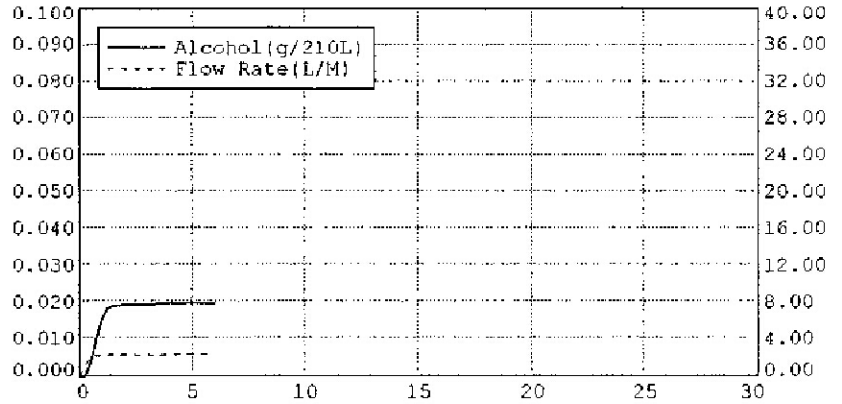
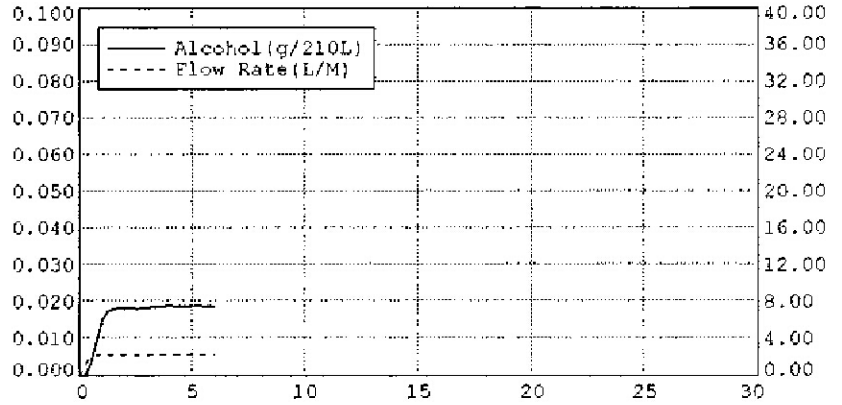
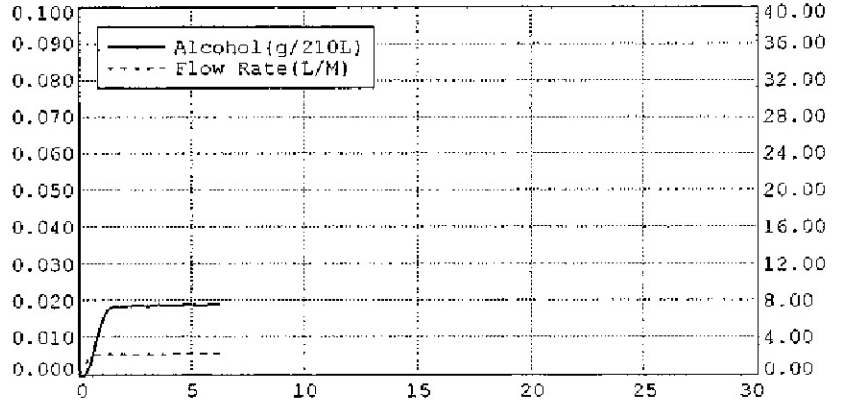
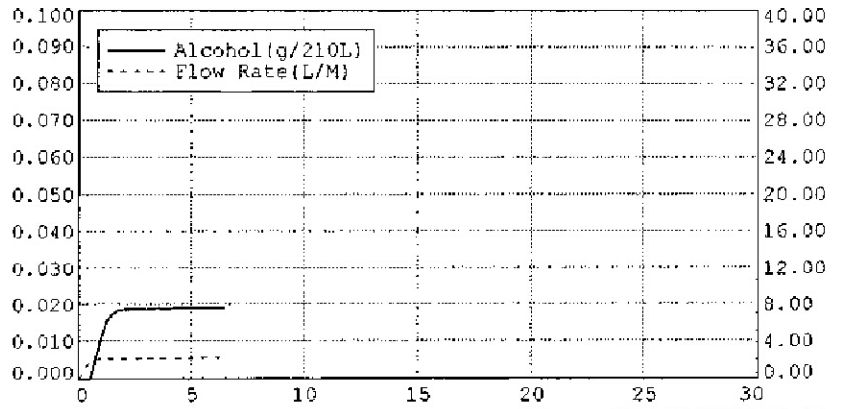
Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 09/19/2014
 Time: 09:37:35

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 28.95: 0.019
 LOT #: 00813020A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:40
INTERNAL STANDARD	VERIFIED	09:40
EXTERNAL STANDARD	0.020	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.020	09:42
BLANK TEST	0.000	09:43
EXTERNAL STANDARD	0.019	09:43
BLANK TEST	0.000	09:44
EXTERNAL STANDARD	0.020	09:44
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.020	09:45
BLANK TEST	0.000	09:46

Average = 0.0202
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

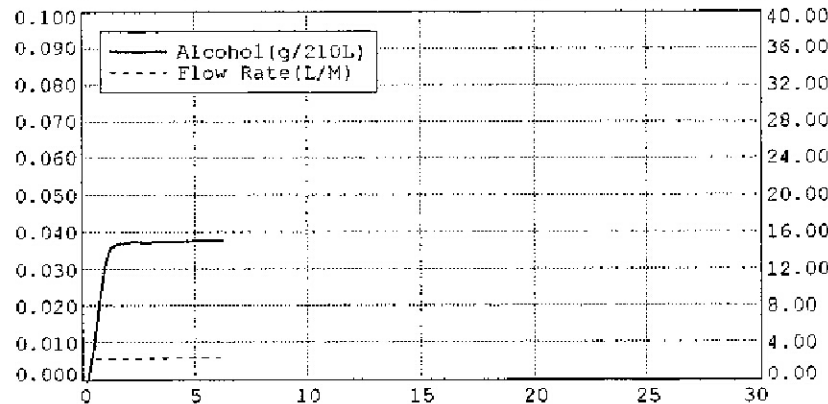
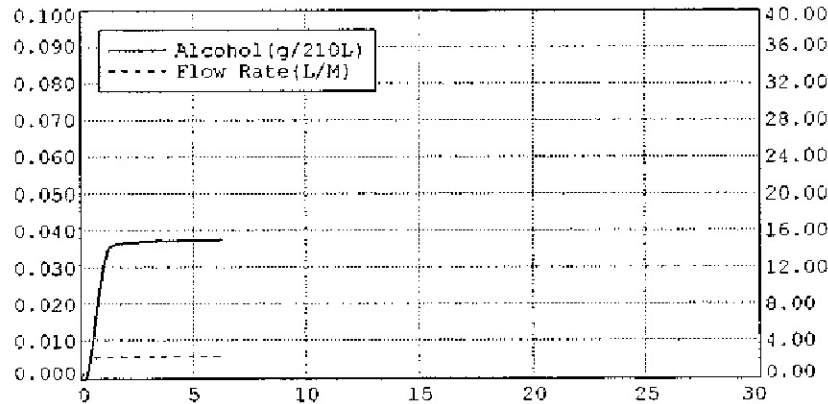
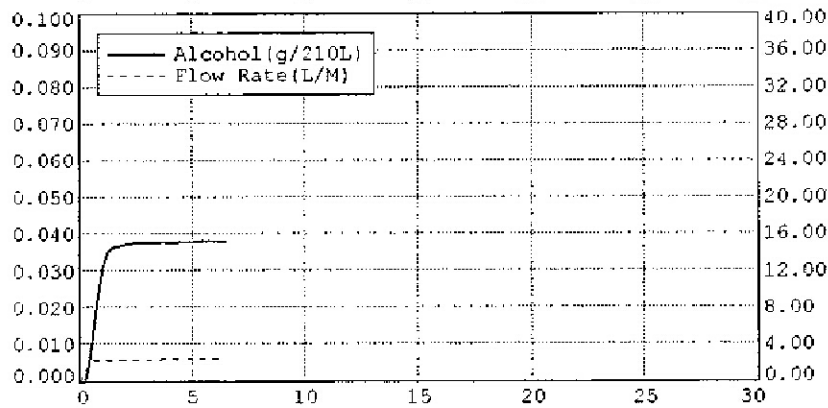
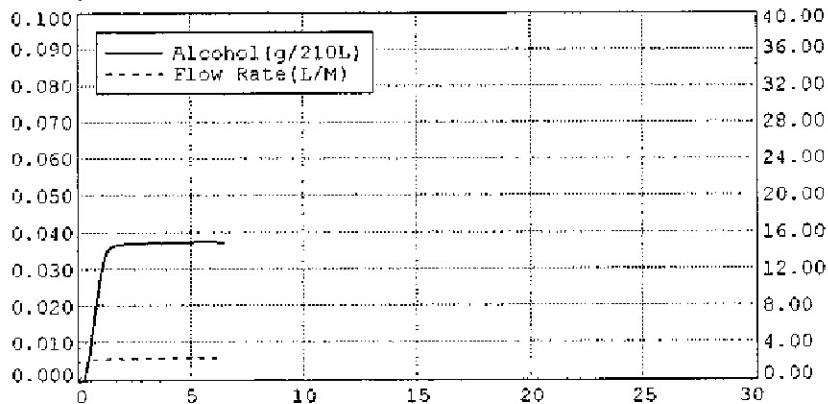
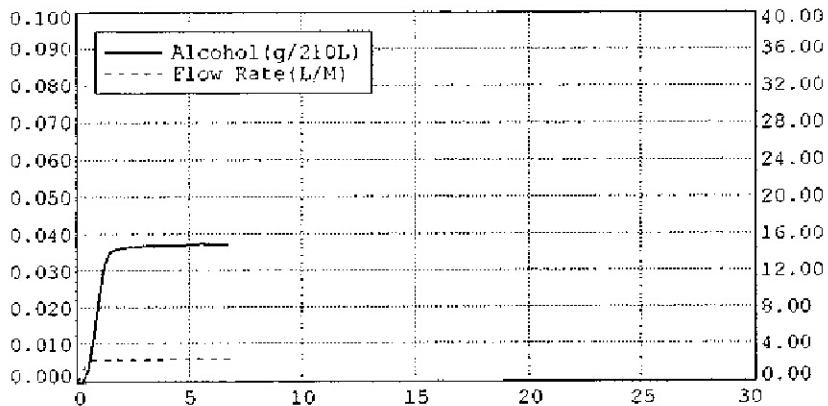
 Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 09/19/2014
 Time: 09:47:58

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 28.95: 0.038
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:49
INTERNAL STANDARD	VERIFIED	09:49
EXTERNAL STANDARD	0.038	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.038	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.038	09:52
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.038	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.038	09:54
BLANK TEST	0.000	09:55

Average = 0.0385
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

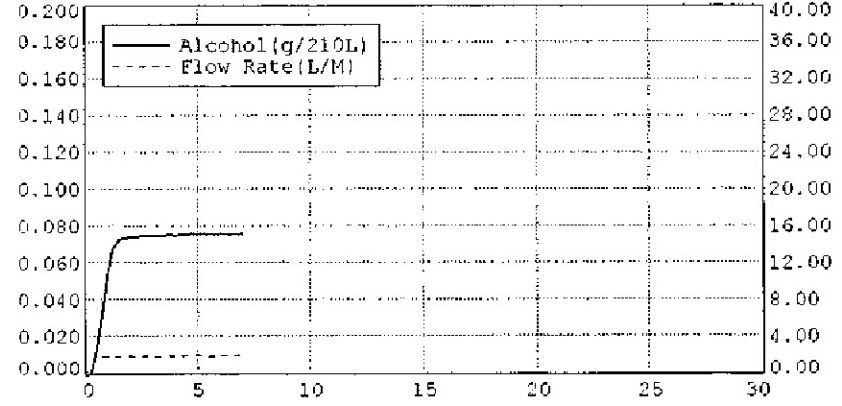
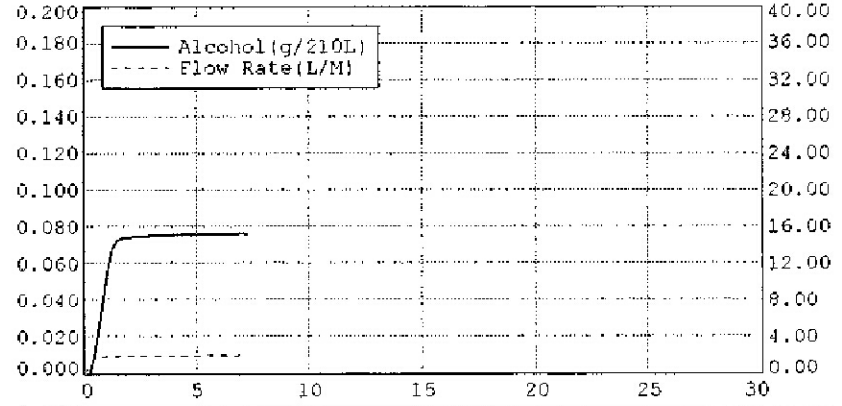
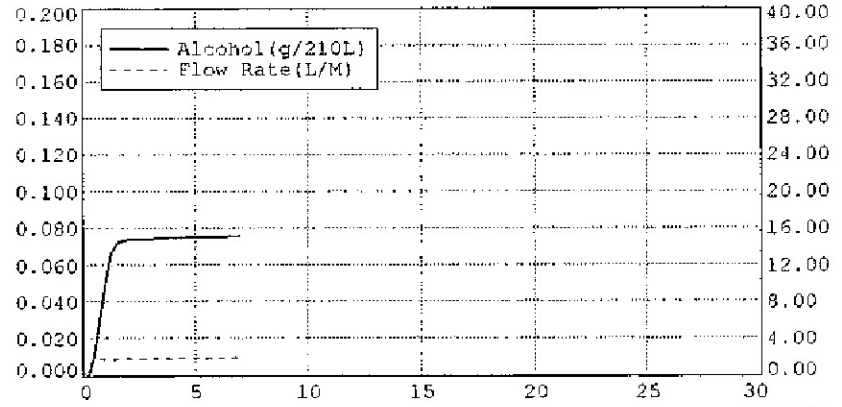
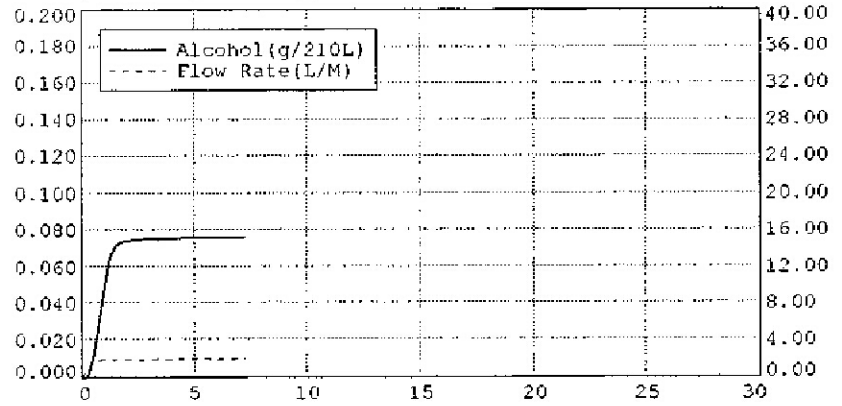
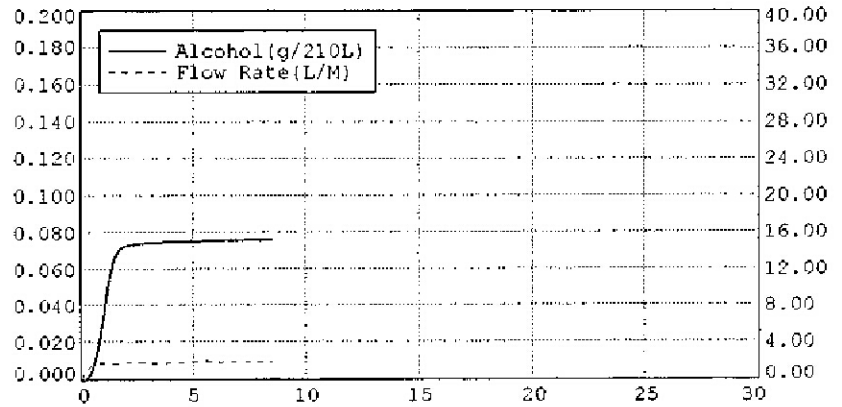
Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 09/19/2014
 Time: 09:56:53

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.95: 0.077
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

BLANK TEST	0.000	09:58
INTERNAL STANDARD	VERIFIED	09:58
EXTERNAL STANDARD	0.077	09:58
BLANK TEST	0.000	09:59
EXTERNAL STANDARD	0.076	09:59
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.076	10:01
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.077	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.076	10:03
BLANK TEST	0.000	10:04

Average = 0.0768
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

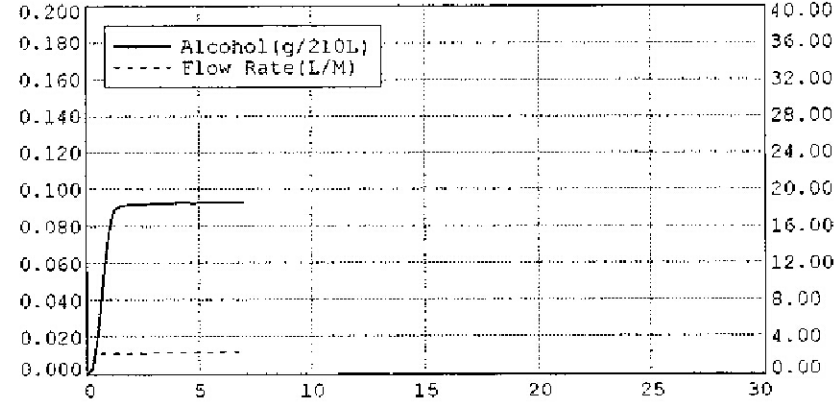
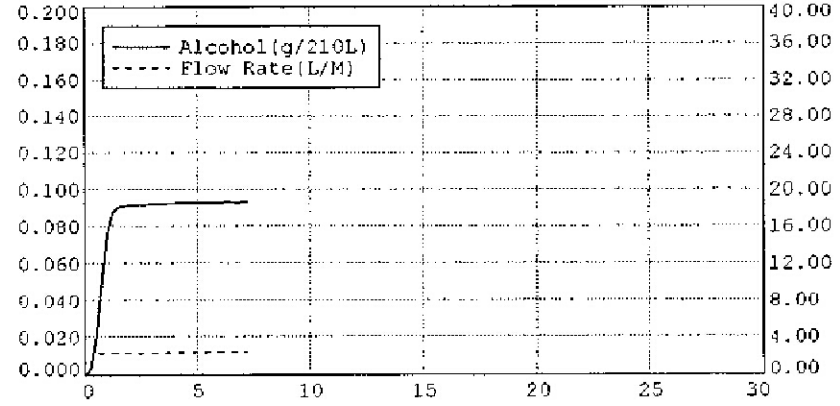
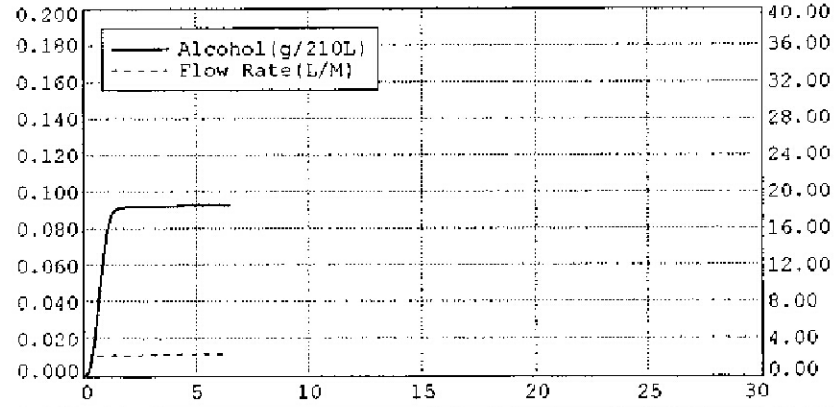
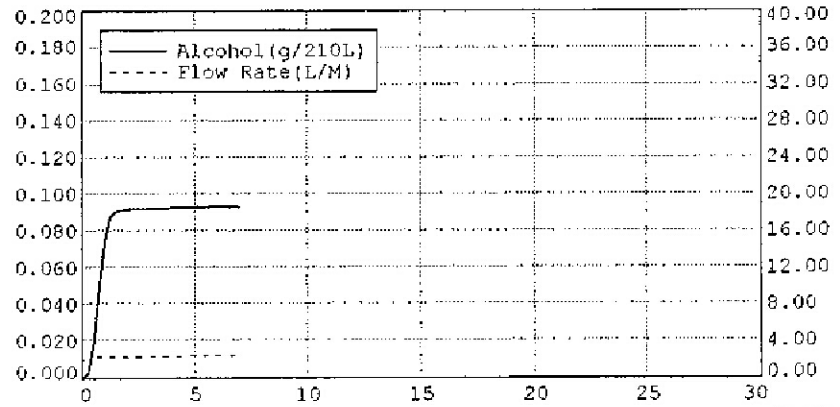
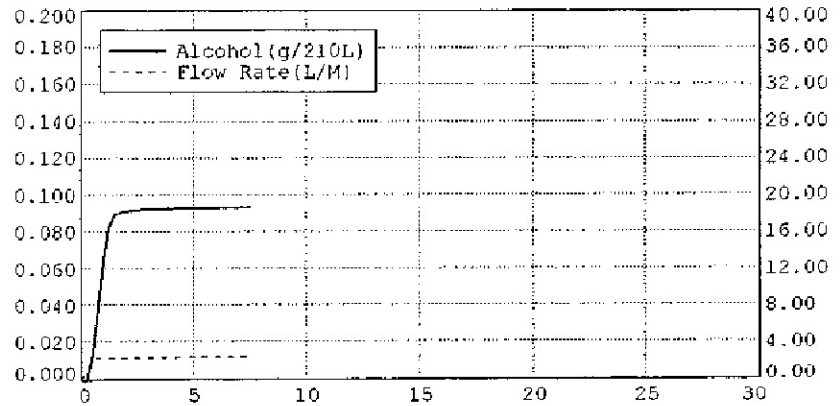
Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 09/19/2014
 Time: 10:06:23

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 28.95: 0.096
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:07
INTERNAL STANDARD	VERIFIED	10:08
EXTERNAL STANDARD	0.094	10:08
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.093	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.093	10:10
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.093	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.093	10:12
BLANK TEST	0.000	10:13

Average = 0.0938
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

 Alaska Department of Public Safety
 DATAMASTER dmt: 100351

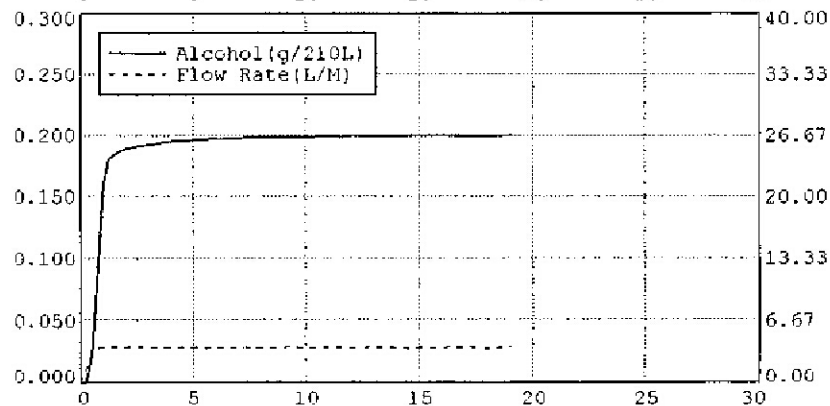
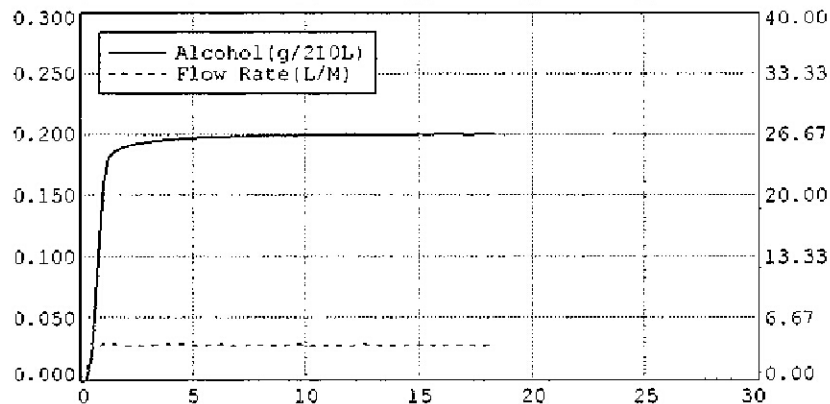
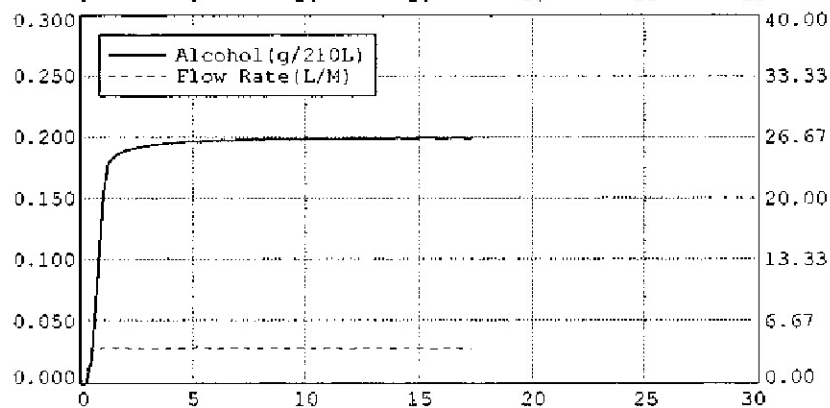
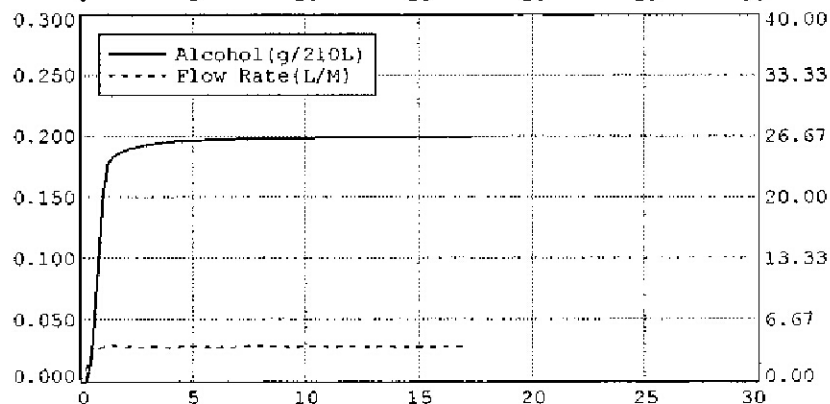
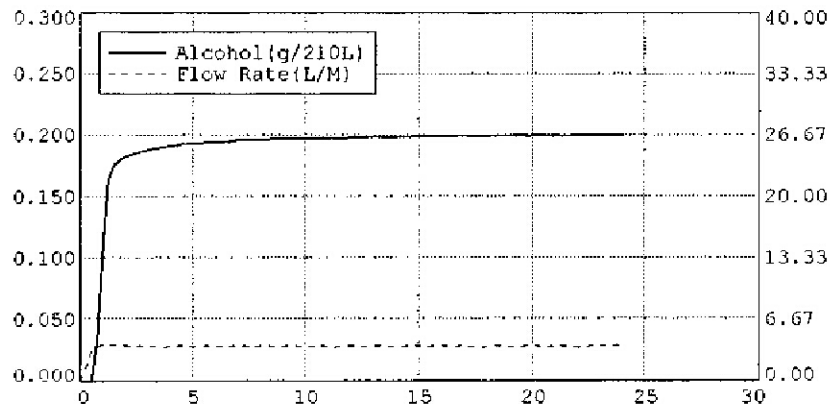
Date: 09/19/2014
 Time: 10:15:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 14130
 EXPIRATION: 05/12/2016

BLANK TEST	0.000	10:17
INTERNAL STANDARD	VERIFIED	10:17
EXTERNAL STANDARD	0.200	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.199	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.199	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.200	10:21
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.200	10:23
BLANK TEST	0.000	10:24

Average = 0.2001
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

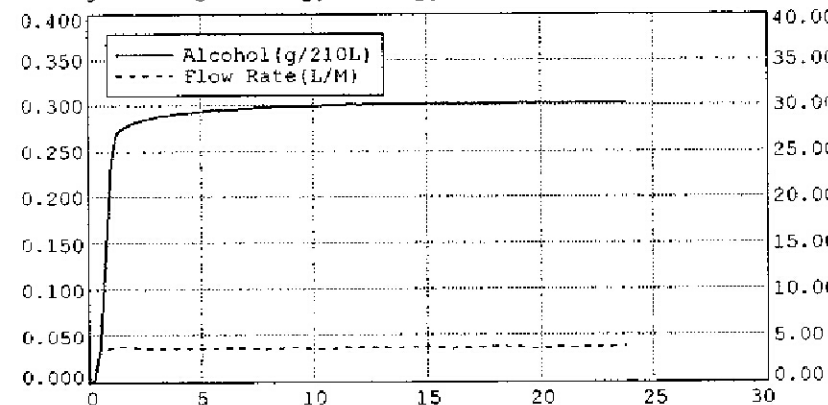
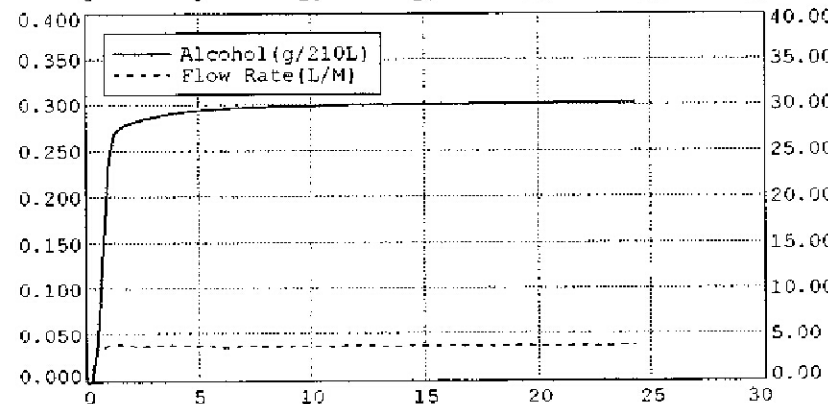
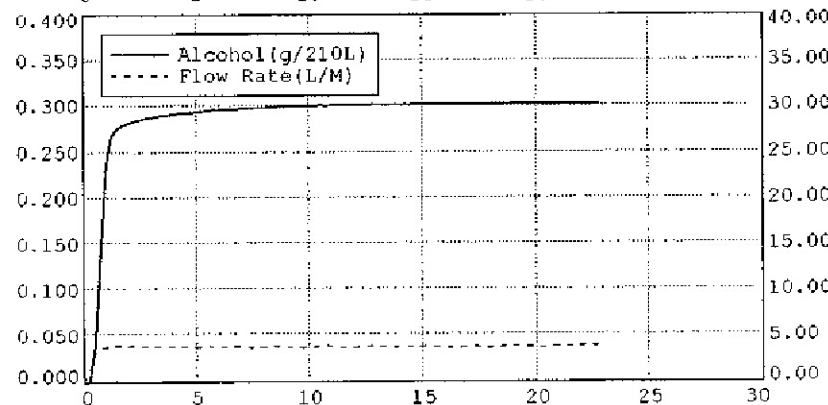
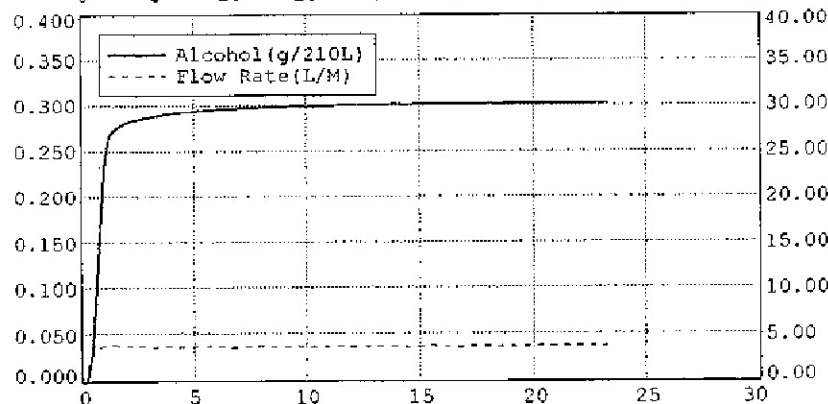
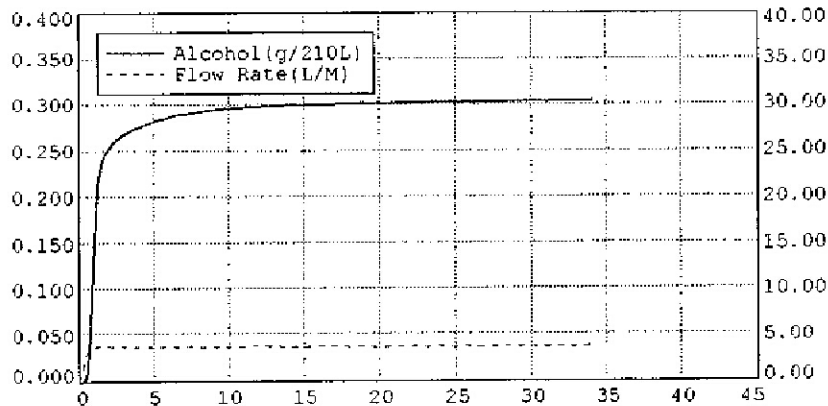
 Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 09/19/2014
 Time: 10:25:34

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

BLANK TEST	0.000	10:26
INTERNAL STANDARD	VERIFIED	10:26
EXTERNAL STANDARD	0.303	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.302	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.301	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.302	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.302	10:33
BLANK TEST	0.000	10:34

Average = 0.3024
 Std Dev = 0.0006



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 09/19/2014
 Time: 11:14:07

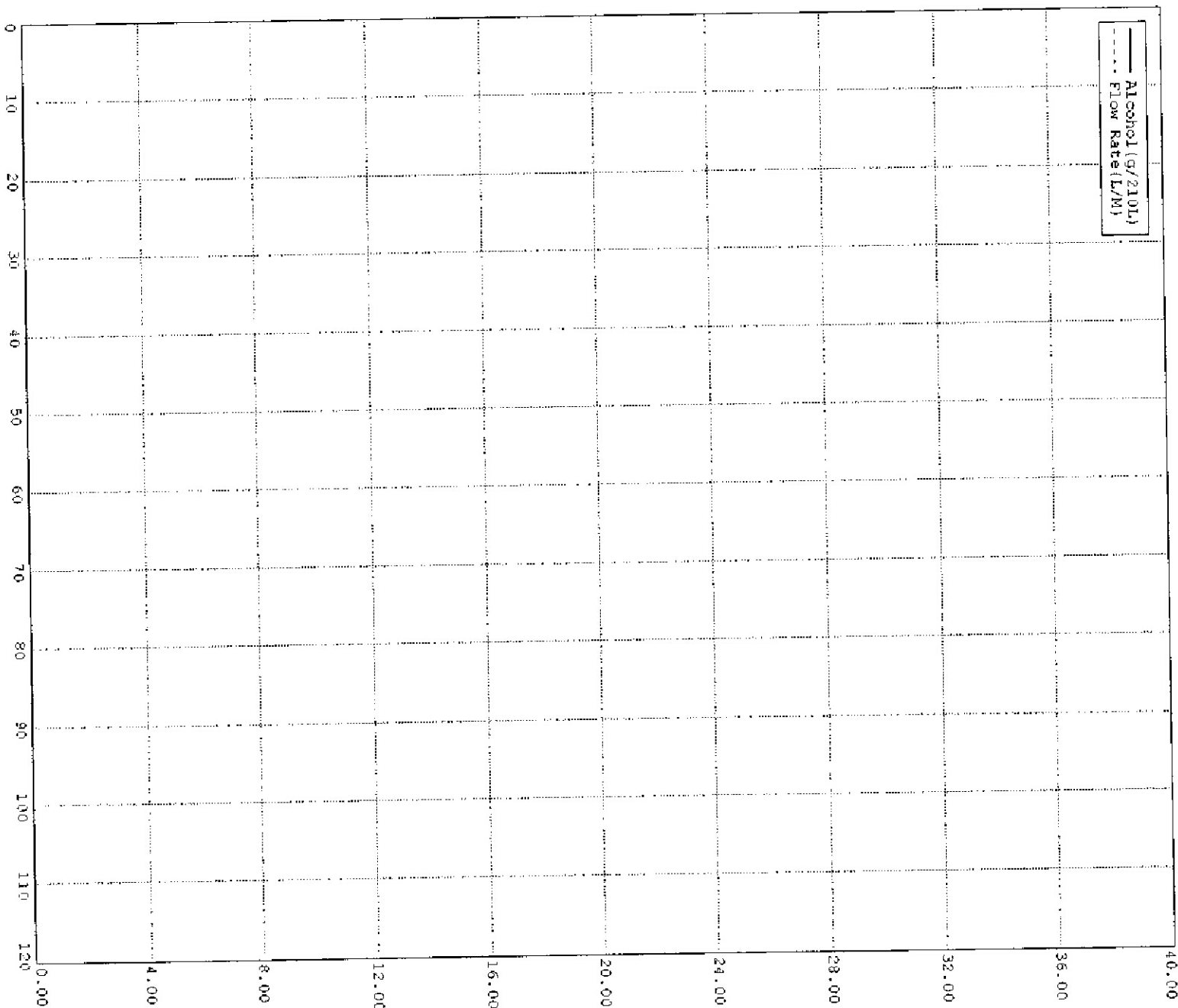
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 28.99: 0.077
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	11:16
BLANK TEST	0.000	11:16
INTERNAL STANDARD	VERIFIED	11:16
EXTERNAL STANDARD	0.076	11:16
BLANK TEST	0.000	11:17
SUBJECT SAMPLE	INCOMPLETE	11:19



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 09/19/2014
Time: 13:54:04

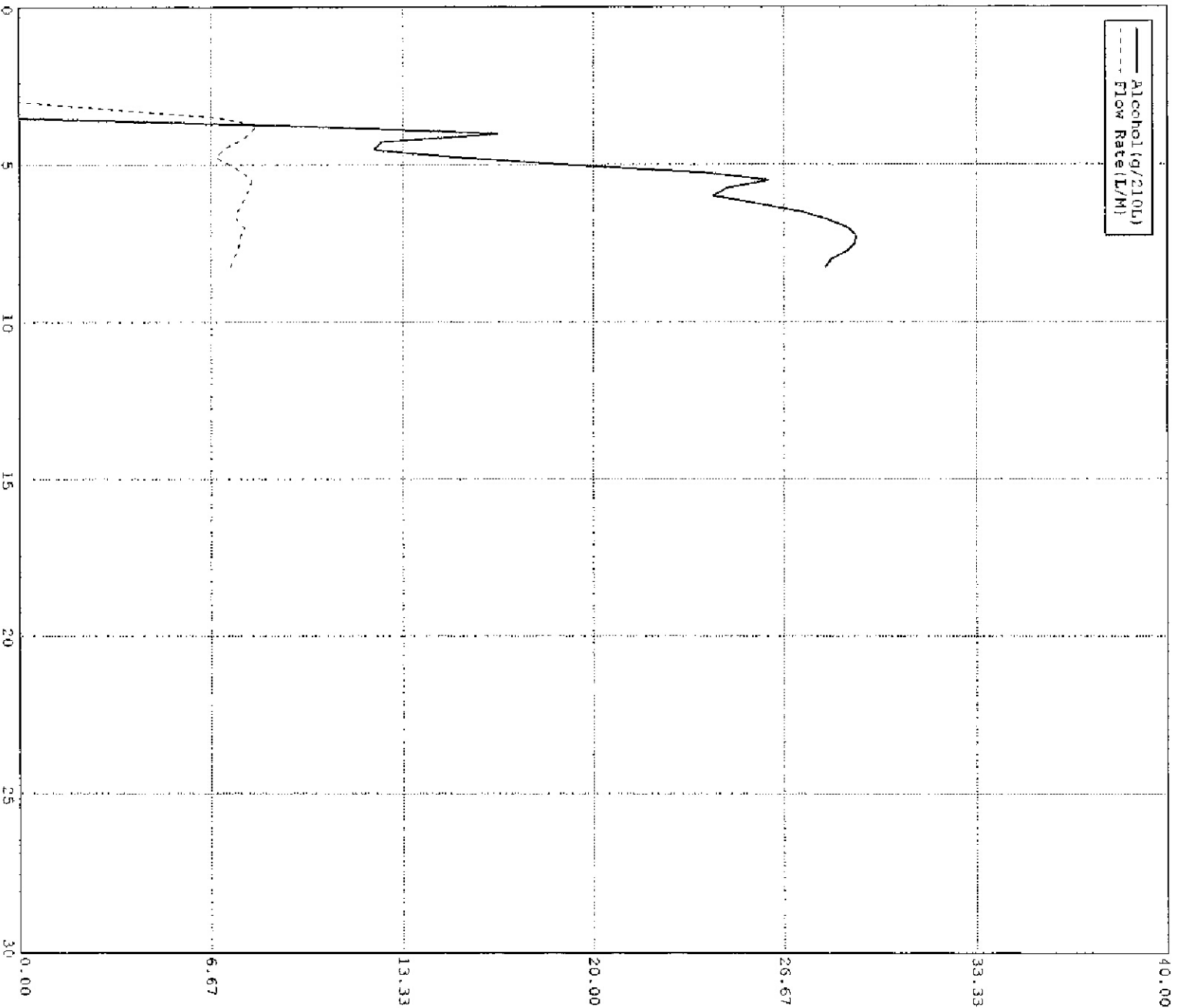
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID MOUTH ETCH
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.04: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	13:57
BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.076	13:58
BLANK TEST	0.000	13:59
SUBJECT SAMPLE	INVALID	13:59



SUBJECT TEST

Alaska Department of Public Safety
DAYMASTER dmt: 100351

Date: 09/19/2014
Time: 14:17:47

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE ACETONE
OPERATOR'S #: XXXX

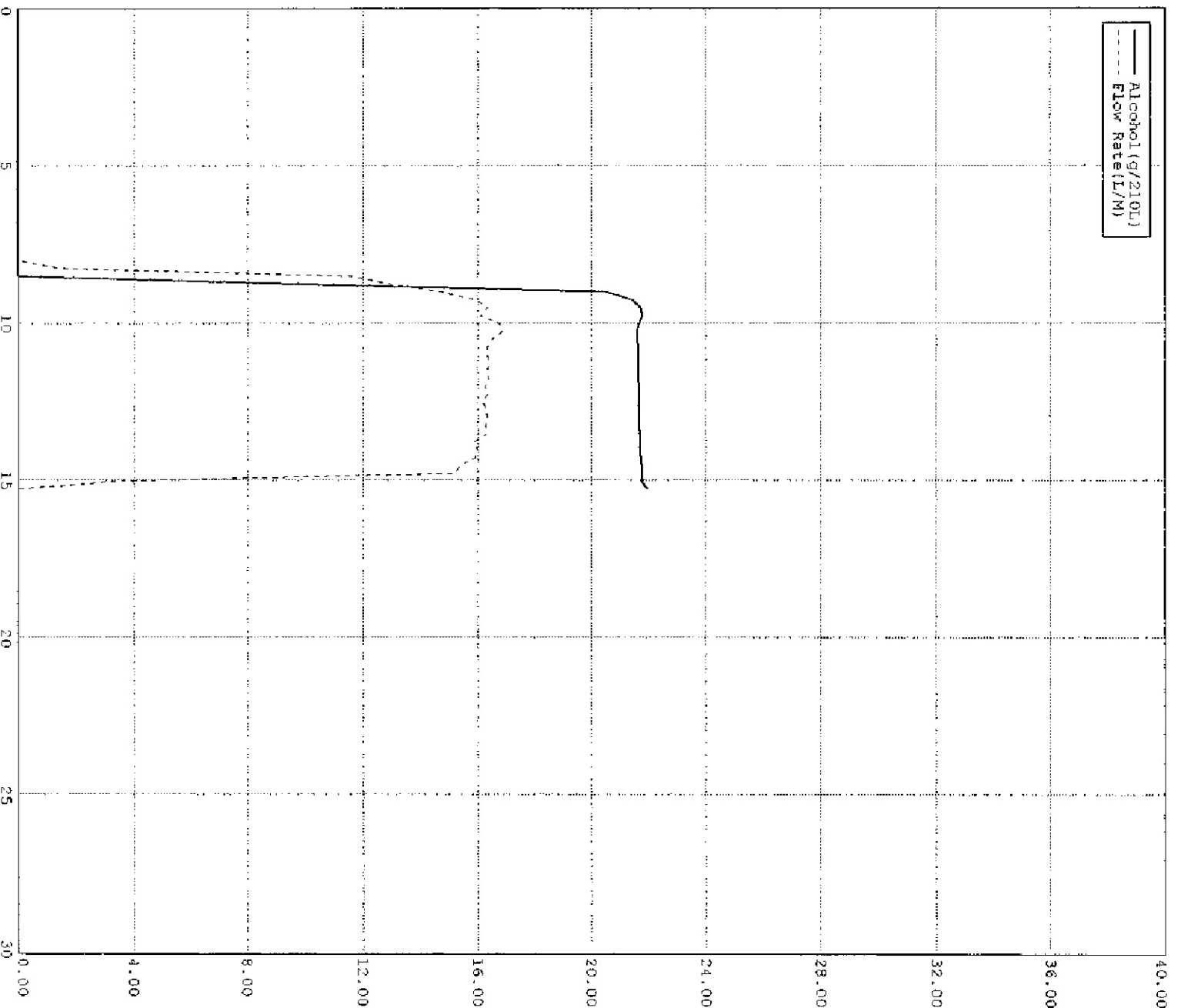
DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AV 29.04: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:22
BLANK TEST	0.000	14:22
INTERNAL STANDARD	VERIFIED	14:22
Xq = 0.110 (0.00%)		
EXTERNAL STANDARD	0.076	14:22
X[1] = 0.0768 (-0.0010)	(0.0016)	
BLANK TEST	0.000	14:23
SUBJECT SAMPLE	INTERFERENCE	14:24
X[1] = 0.1097 (-0.0142)	(0.0020)	

Filter 2 Avg = -0.0009
Filter 3 Avg = 0.0016

CTF
9/22/14



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 09/19/2014
 Time: 14:37:10

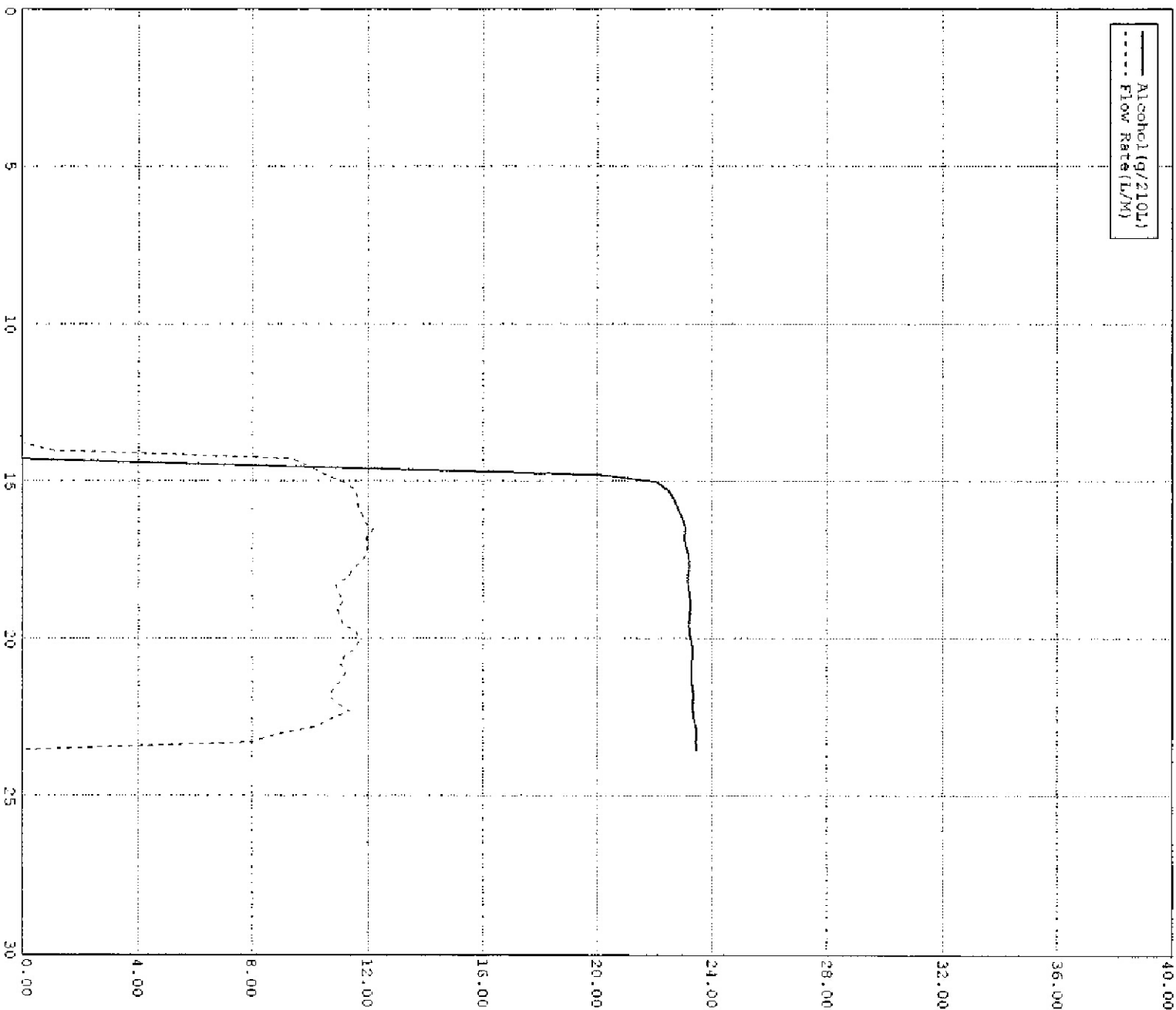
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE IPA
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AP 29.04: 0.077
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:38
BLANK TEST	0.000	14:38
INTERNAL STANDARD	VERIFIED	14:38
Xg = 0.110 (0.08%)		
EXTERNAL STANDARD	0.076	14:38
X[1] = 0.0769 (-0.0009) (0.0019)		
BLANK TEST	0.000	14:39
SUBJECT SAMPLE	INTERFERENCE	14:40
X[1] = 0.1174 (-0.0241) (0.0007)		



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnr: 100351

Date: 09/19/2014
Time: 14:41:50

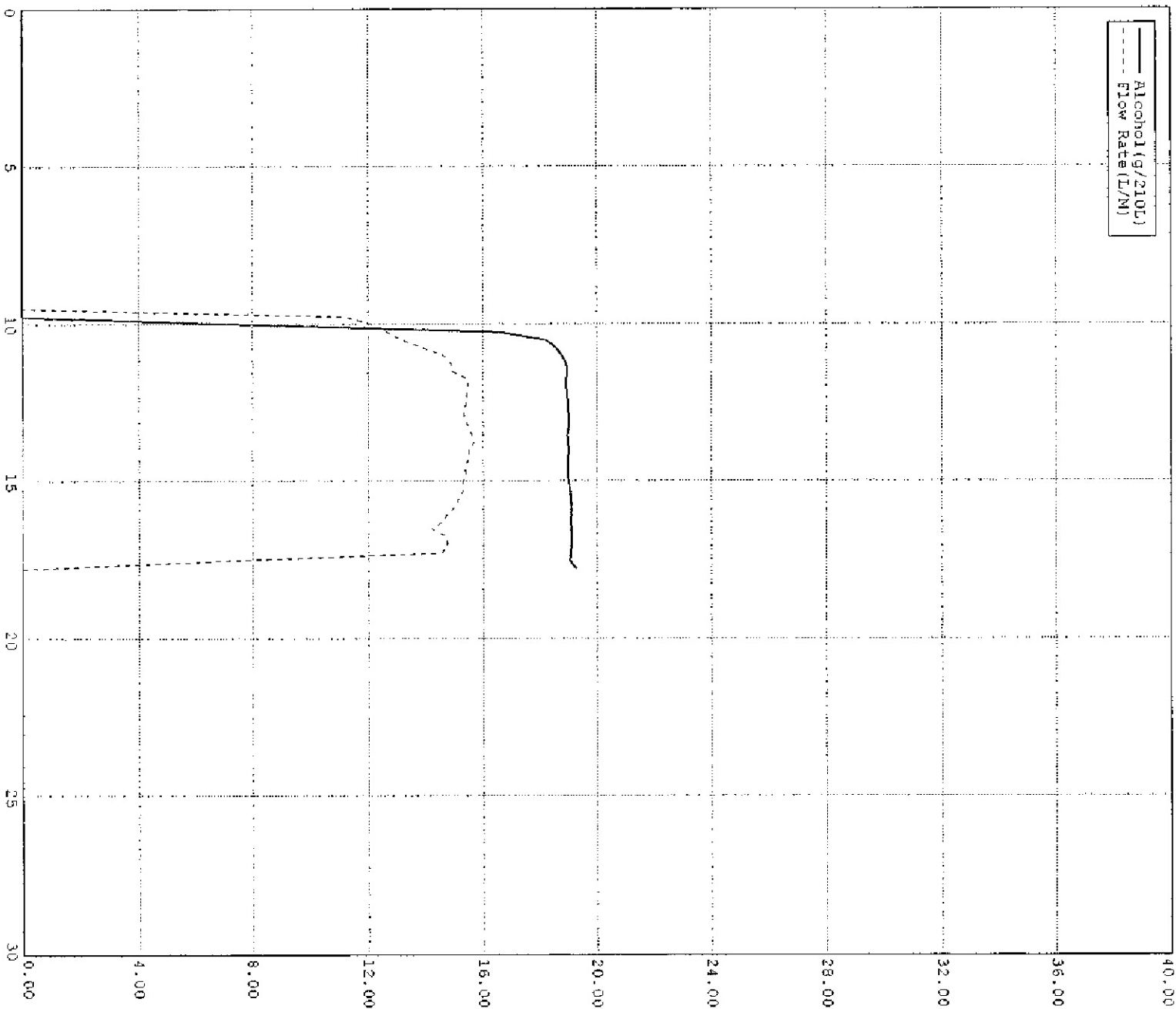
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE NEGATIVE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.04: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:46
BLANK TEST	0.000	14:46
INTERNAL STANDARD	VERIFIED	14:46
Xq = 0.111 (0.40%)		
EXTERNAL STANDARD	0.077	14:47
X[1] = 0.0773 (-0.0006)	(0.0016)	
BLANK TEST	0.000	14:48
SUBJECT SAMPLE (Vol=1.94L)	0.096	14:48
X[1] = 0.0963 (0.0008)	(0.0004)	
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.076	14:49
X[1] = 0.0766 (-0.0010)	(0.0011)	
BLANK TEST	0.000	14:50



SUBJECT TEST

Alaska Department of Public Safety
DATA/MASTER dnt: 100351

Date: 09/22/2014
Time: 08:17:52

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

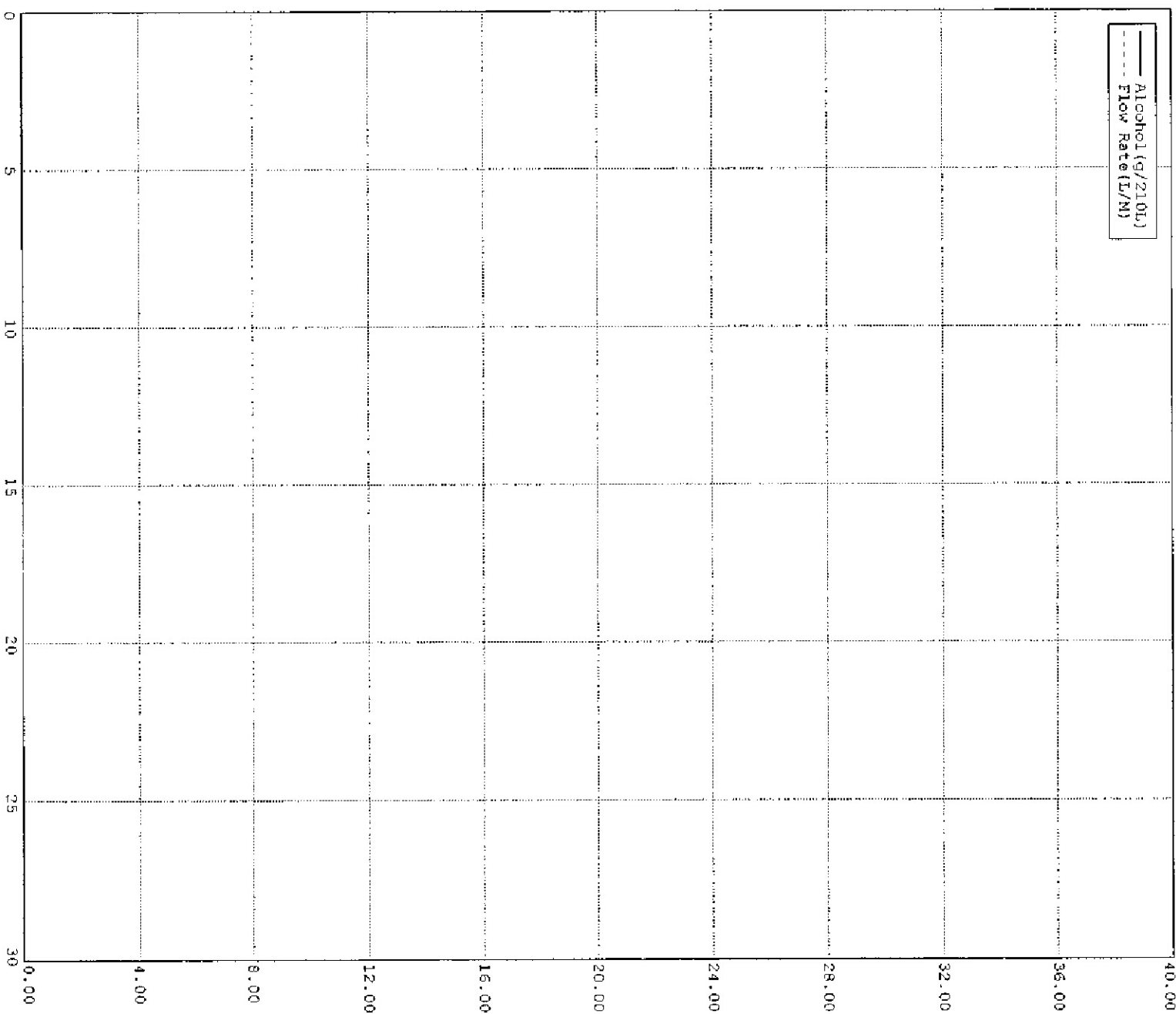
DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.32: 0.078
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	08:19
BLANK TEST	0.000	08:19
INTERNAL STANDARD	VERIFIED	08:19
EXTERNAL STANDARD	0.077	08:19
BLANK TEST	0.000	08:20

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 09/22/2014
 Time: 08:46:22

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

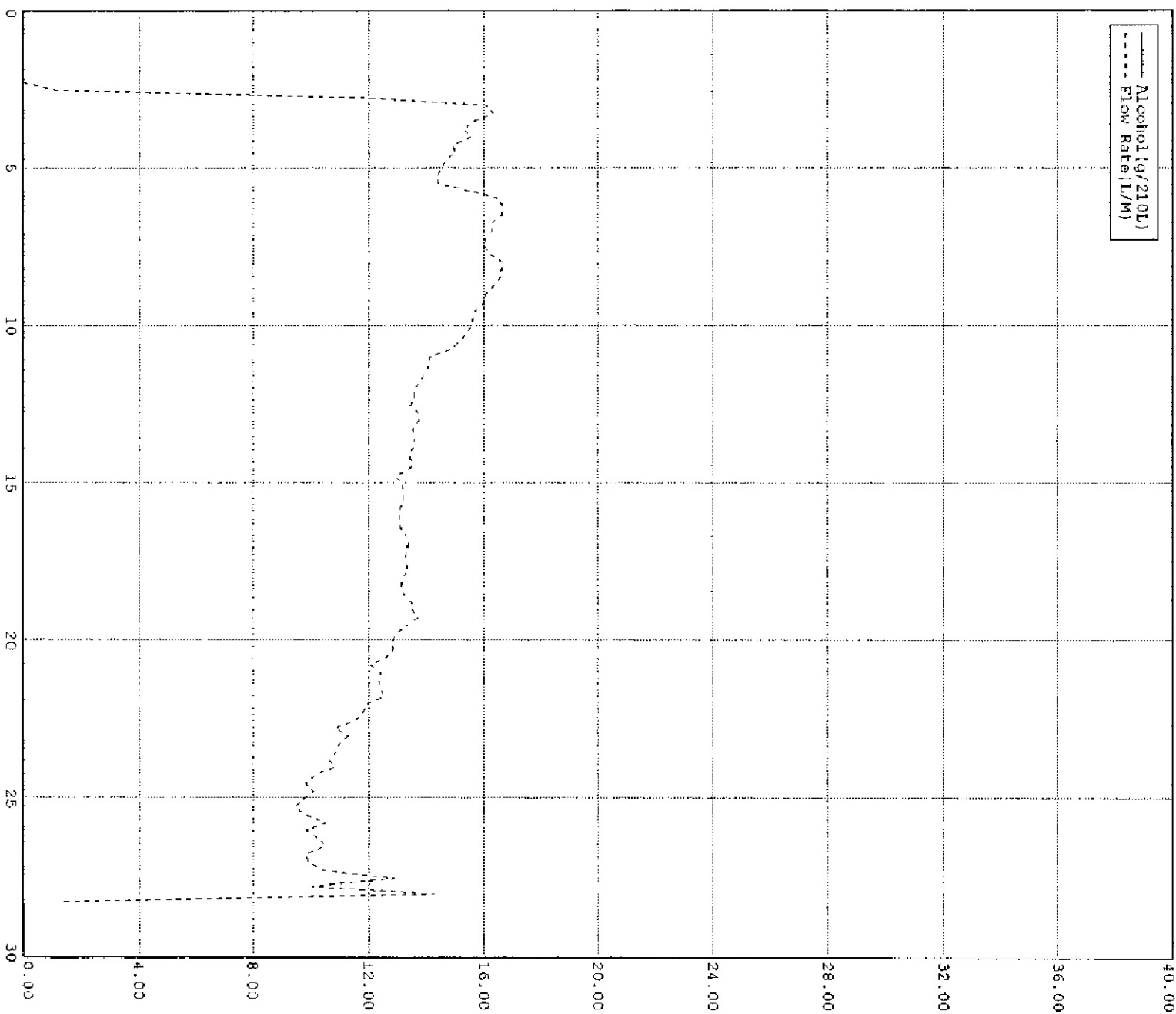
OPERATOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AP 29.32: 0.078
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	08:48
BLANK TEST	0.000	08:48
INTERNAL STANDARD	VERIFIED	08:48
EXTERNAL STANDARD	0.077	08:49
BLANK TEST	0.000	08:50
SUBJECT SAMPLE	0.000	08:50
BLANK TEST	0.000	08:51
EXTERNAL STANDARD	0.078	08:51
BLANK TEST	0.000	08:52



Final page for report

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10/13/2014