

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100376 Analyst Brandi Barnett Start Date 5/1/14

Diagnostic Test (attached)

1. Voltage Checks

a. Adjust voltages, if needed

i. Lamp (2.6V Maximum)

ii. Bias (80V)

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 1500 mL (1.3L to 1.7L)

4. 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 22612080A1 Exp 9/1/14

iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15

v. 0.200g/210L Mnf Guth Lot 12120 Exp 8/10/14

1. Simulator S/N DR4176 Date Calibrated 11/1/13

vi. 0.300g/210L Mnf Guth Lot 13080 Exp 3/19/15

1. Simulator S/N DR4163 Date Calibrated 11/4/13

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 13010 Level 0.100 Exp 5/20/14 ^{1/9/15} _{BMB}

1. Simulator S/N DR4162 Date Calibrated 11/1/13

ii. Isopropanol - Mnf Guth Lot 13010 Level 0.100 Exp 5/19/15

1. Simulator S/N DR62107 Date Calibrated 11/5/13

iii. Negative Control - Mnf Guth Lot 13010 Level 0.100 Exp 1/9/15

1. Simulator S/N DR4177 Date Calibrated 11/5/13

d. RFI

6. Verify stylus is calibrated

7. Verify card reader is functional

8. Reset Options

9. Clear Memory

10. Verification of Calibration

11. Non-Drinking Subject Test (attached)

12. Upload

13. Update agency information and polling status in DM Host Calling Program

End Date 5/1/14 ^{BMB} 5/2/14

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dnt: 100376

Date: 05/01/2014
Time: 13:07:05

VERSIONS

DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 47.6°C PASSED

PUMP INFO

Flow Rate = 4.440 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: 100376

Date: 05/01/2014

Time: 1:15 PM

Temperatures (°C)

Sample Cell: 49.0°C

Breath Tube: 47.8°C

Current Barometer 30.3 in

Volume (Ltr) 1.52

Settings

Lamp: 1.62 V

Bias: 79 V

Cooler: 1.61 V

Chopper: 547 Hz

Voltages (V)

Flow: 1.07 V

Detector: -0.079 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100376

Date: 03/02/2011

Time: 16:04:33

Ca = 0.1000
CAL = 0.982831 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0041 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xg = 0.0775 0.0500 <= Xg < 0.2000
a21 = 1.184234 1.050 <= a21 < 1.300
a31 = 0.361160 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

Date: 05/01/2014
 Time: 13:23:09

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

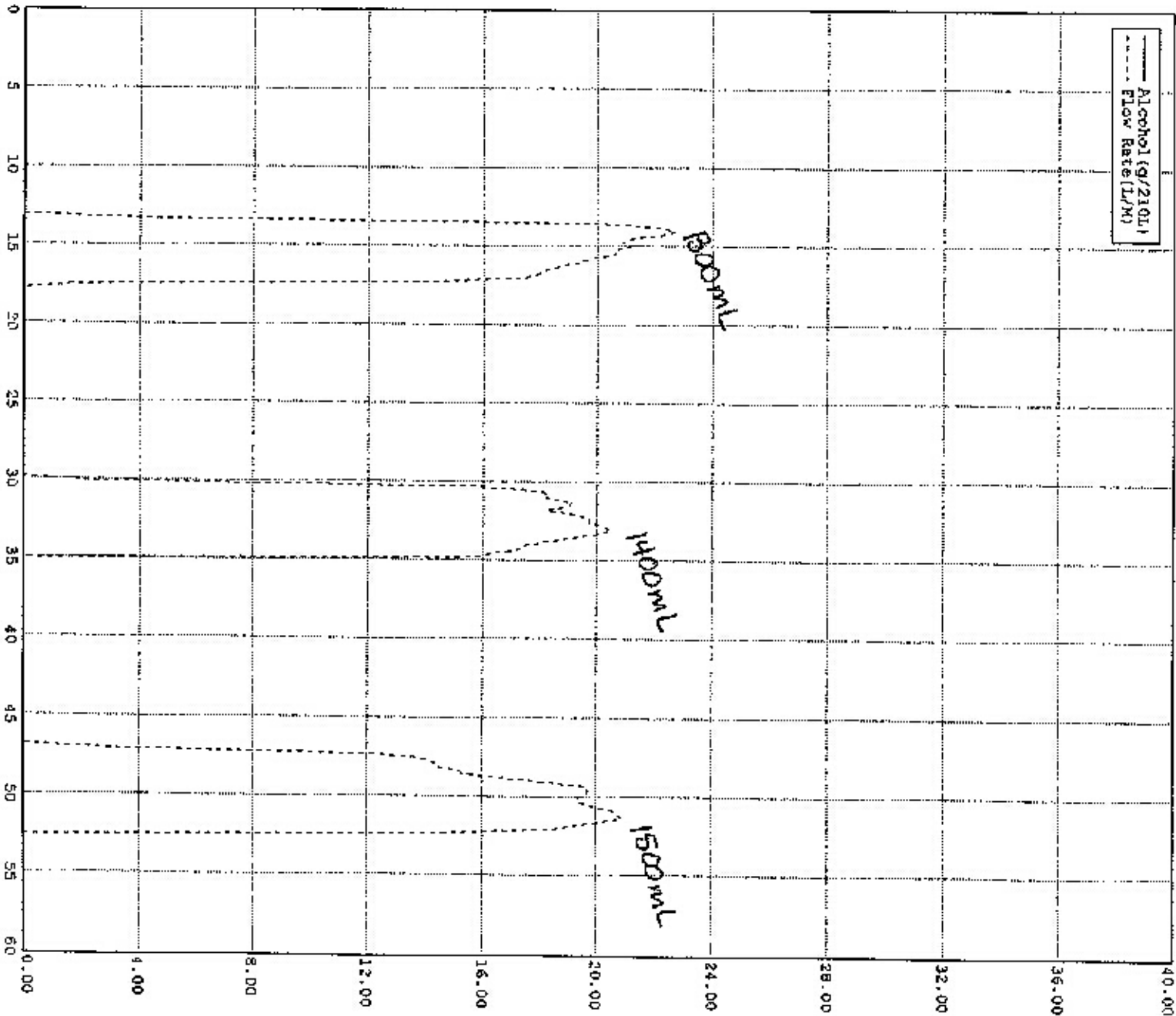
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7039

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.28: 0.080
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	13:24
BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:24
EXTERNAL STANDARD	0.079	13:24
BLANK TEST	0.000	13:25
SUBJECT SAMPLE	0.000	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.079	13:27
BLANK TEST	0.000	13:28

BMB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dnt: 100376

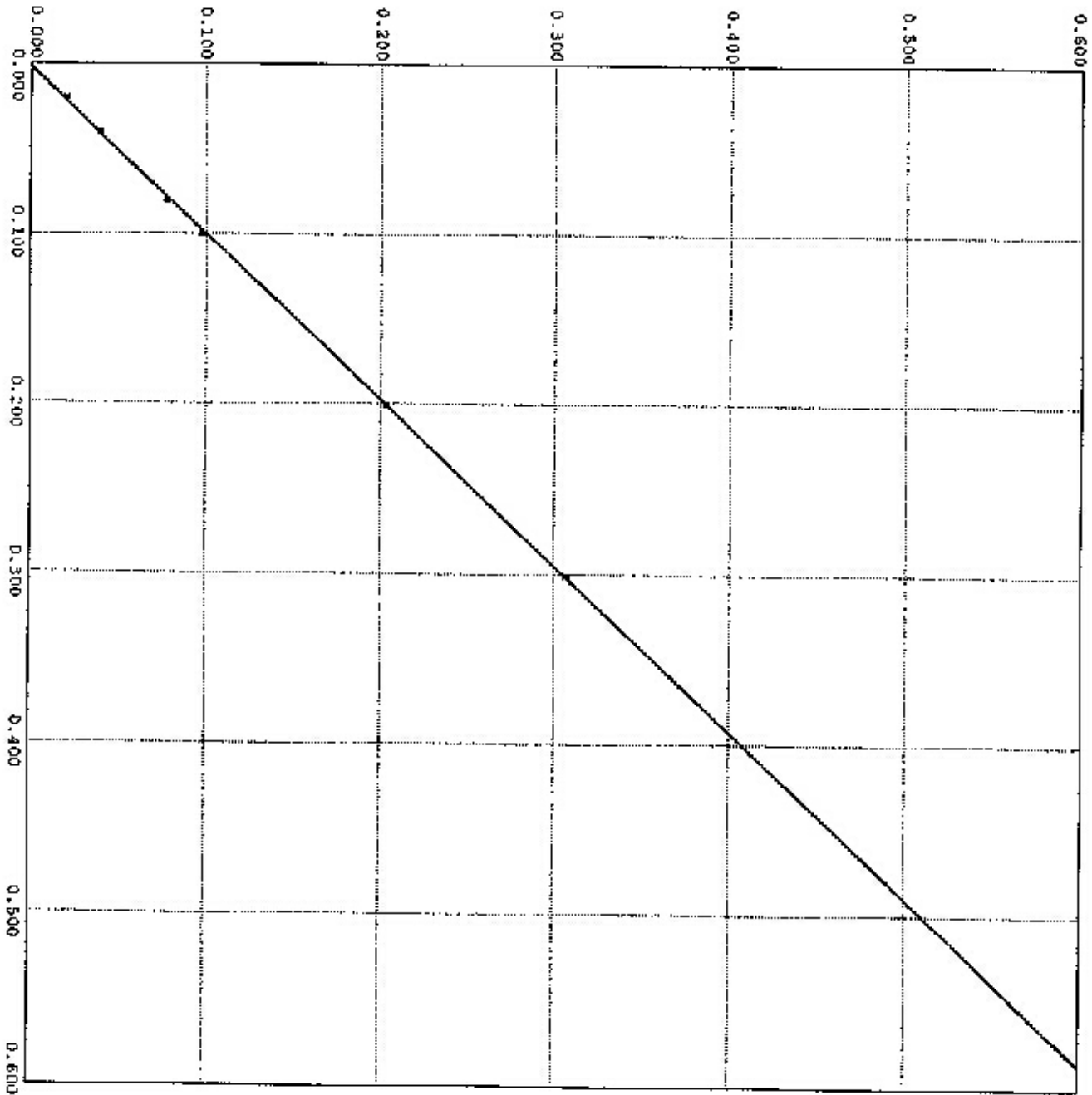
Date: 05/02/2014
 Time: 13:17:46

SUPERVISOR NAME:
 BRANDI M BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0211	0.0001
0.040	0.0407	0.0002
0.080	0.0789	0.0001
0.100	0.0987	0.0001
0.200	0.2038	0.0003
0.300	0.3075	0.0004

SLOPE = 1.026723
 R² = 0.999741

BMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

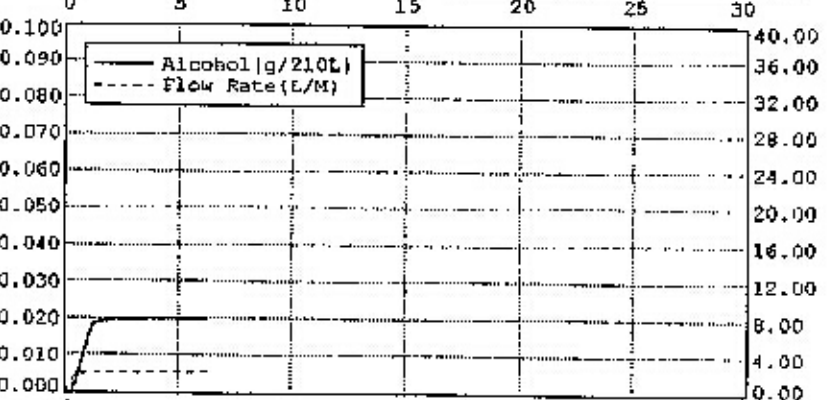
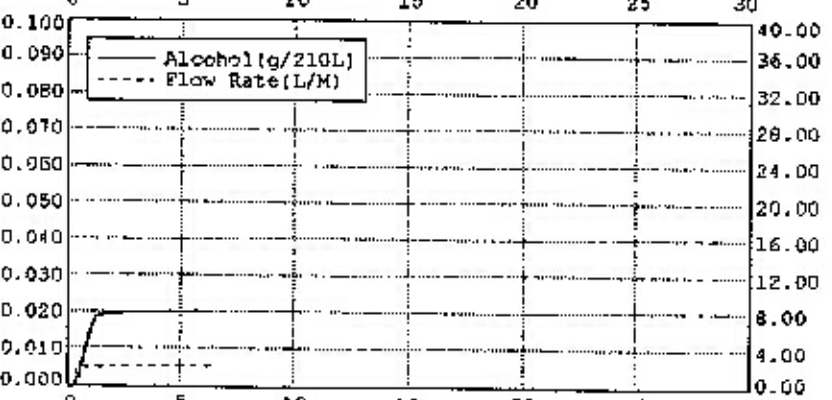
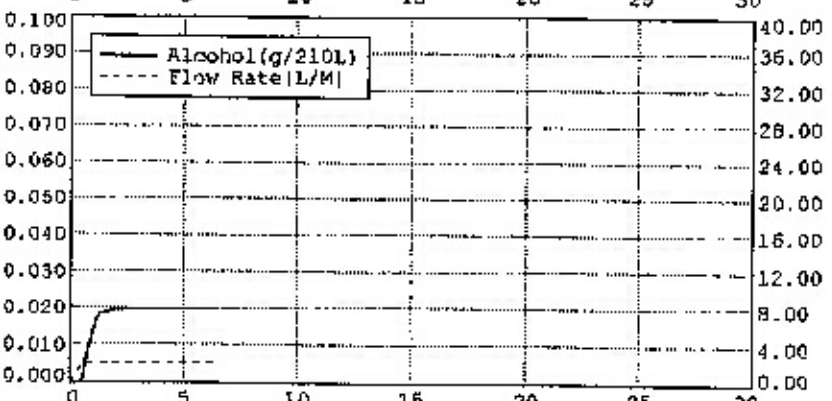
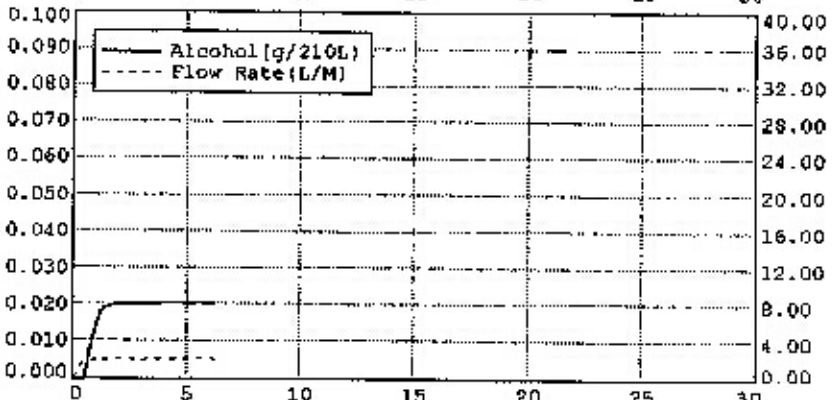
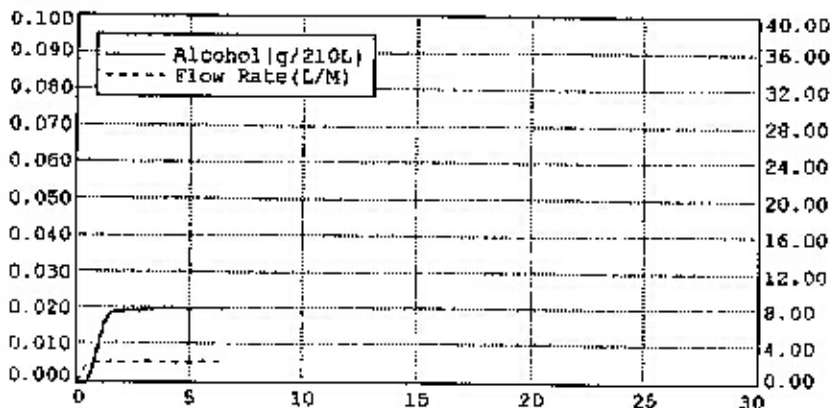
Date: 05/02/2014
 Time: 13:17:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.93: 0.020
 LOT #: 00813820A1
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:19
INTERNAL STANDARD	VERIFIED	13:19
EXTERNAL STANDARD	0.020	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.021	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.021	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.021	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.021	13:23
BLANK TEST	0.000	13:24

Average = 0.0211
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

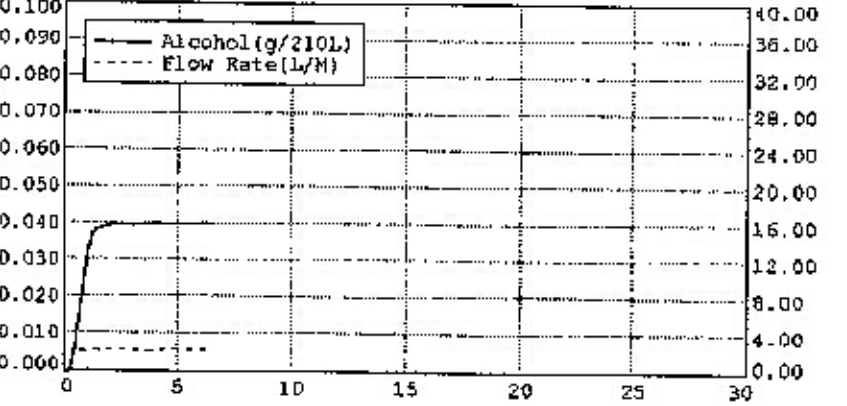
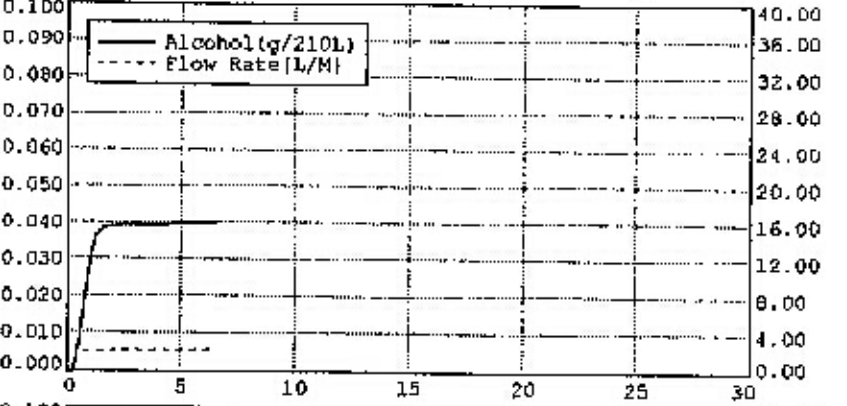
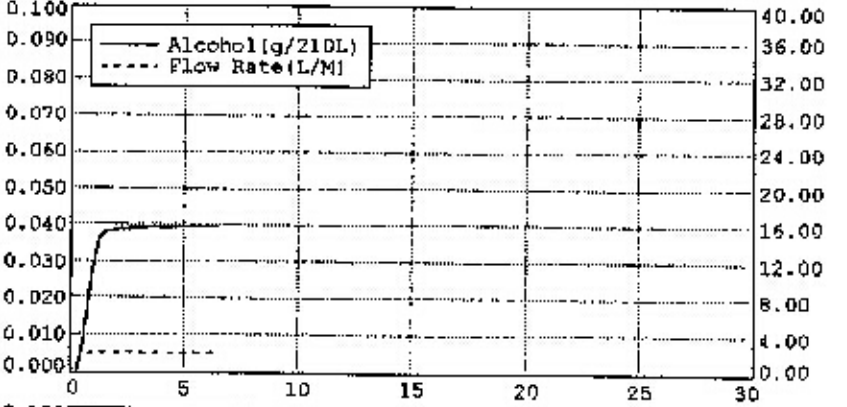
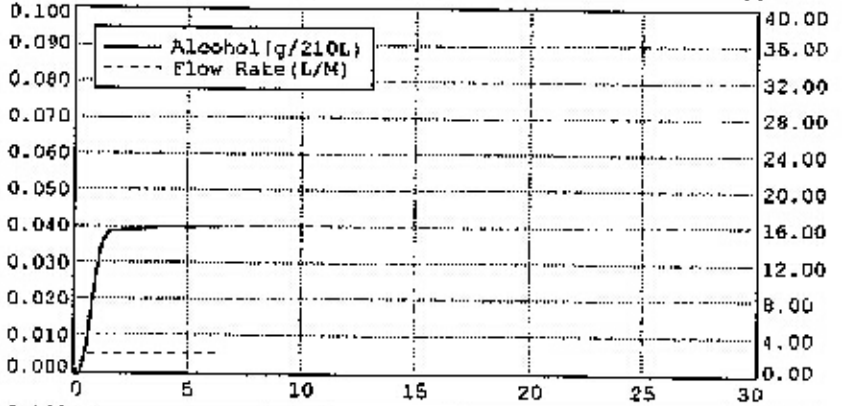
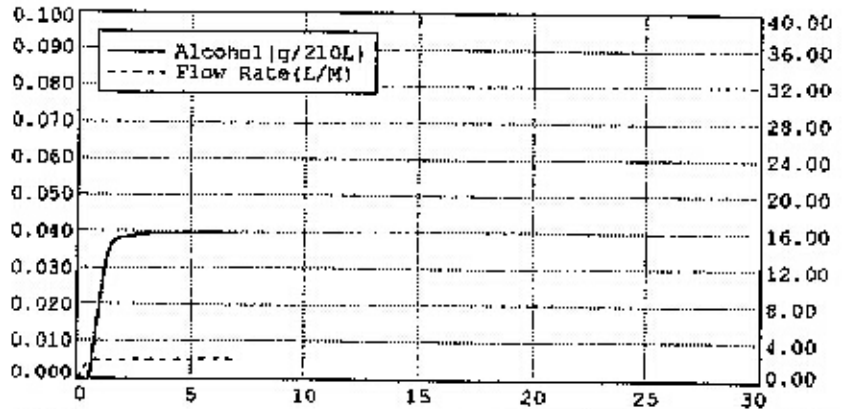
Date: 05/02/2014
 Time: 13:27:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.93: 0.040
 LOT #: 00813040A2
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:28
INTERNAL STANDARD	VERIFIED	13:28
EXTERNAL STANDARD	0.040	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.040	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.040	13:31
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.040	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.040	13:33
BLANK TEST	0.000	13:34

Average = 0.0407
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100376

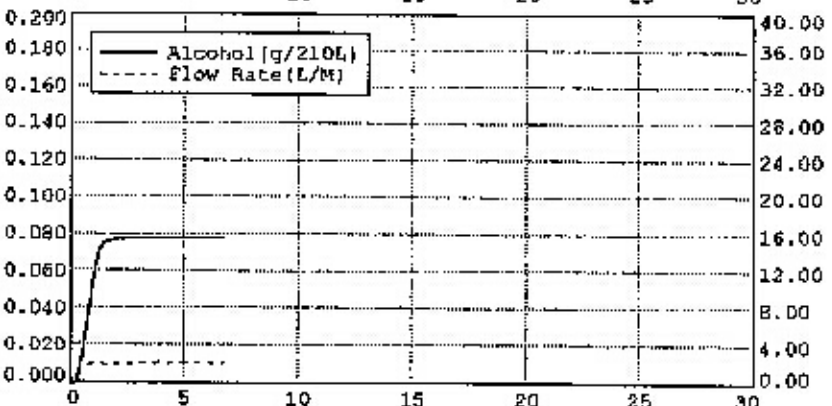
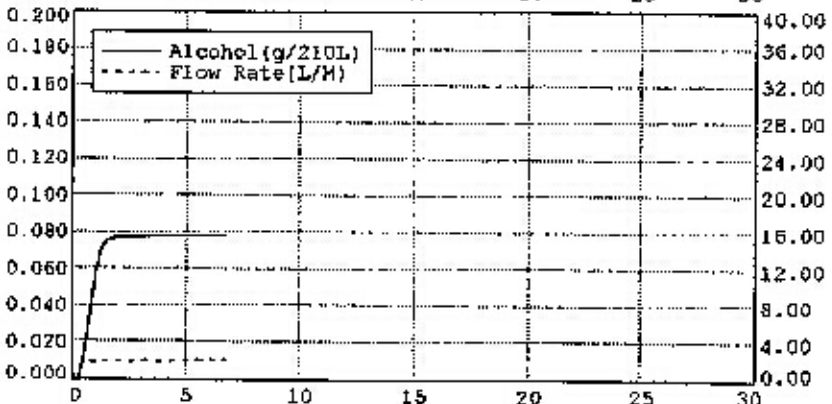
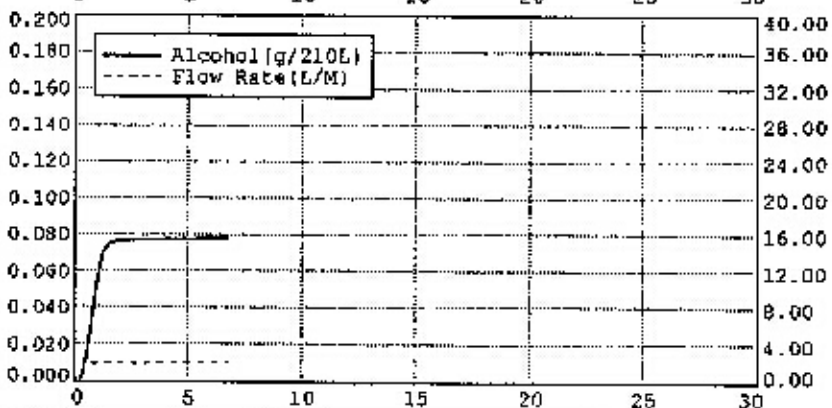
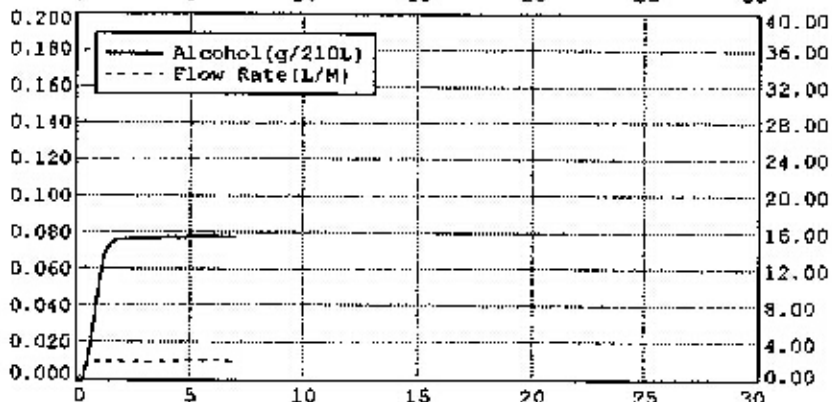
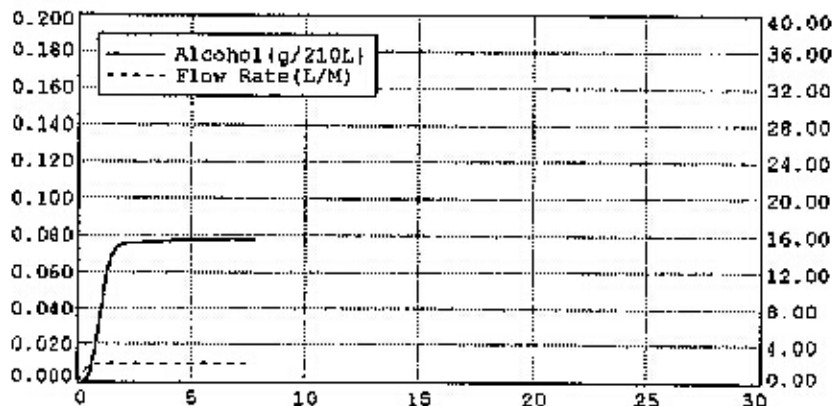
Date: 05/02/2014
Time: 13:35:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 22612080A1
EXPIRATION: 09/01/2014

BLANK TEST	0.000	13:36
INTERNAL STANDARD	VERIFIED	13:36
EXTERNAL STANDARD	0.078	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.078	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.079	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.078	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.079	13:41
BLANK TEST	0.000	13:42

Average = 0.0789
Std Dev = 0.0001



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dat: 100376

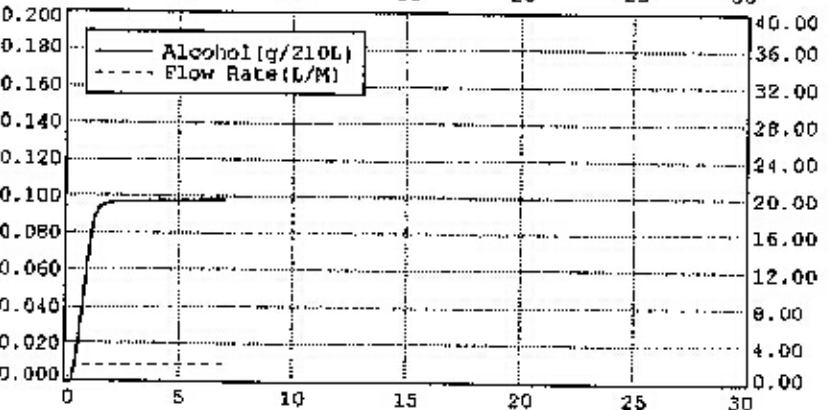
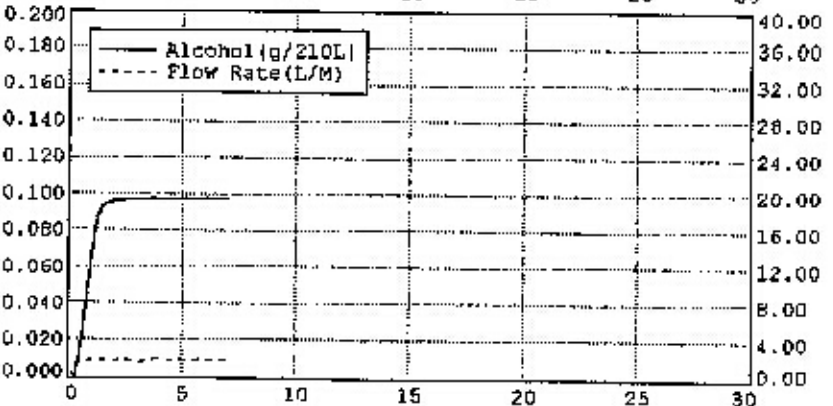
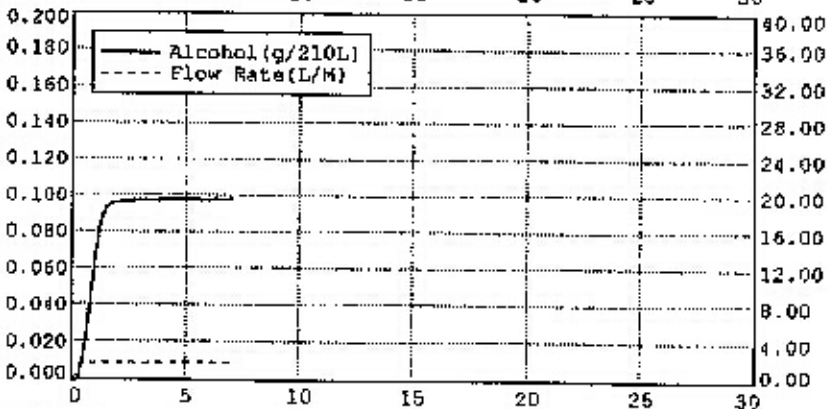
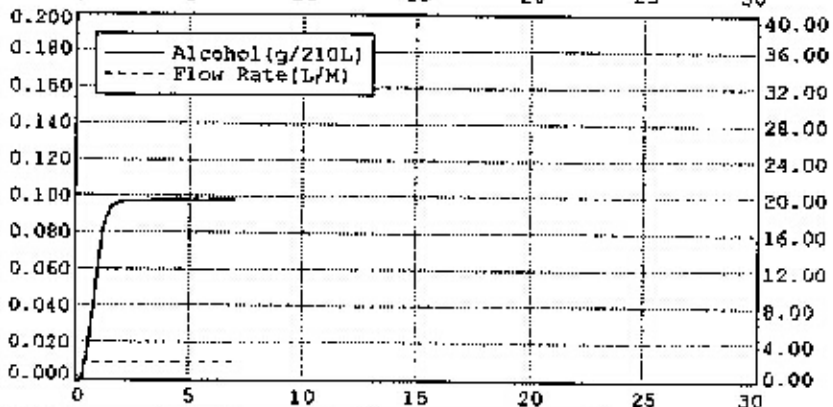
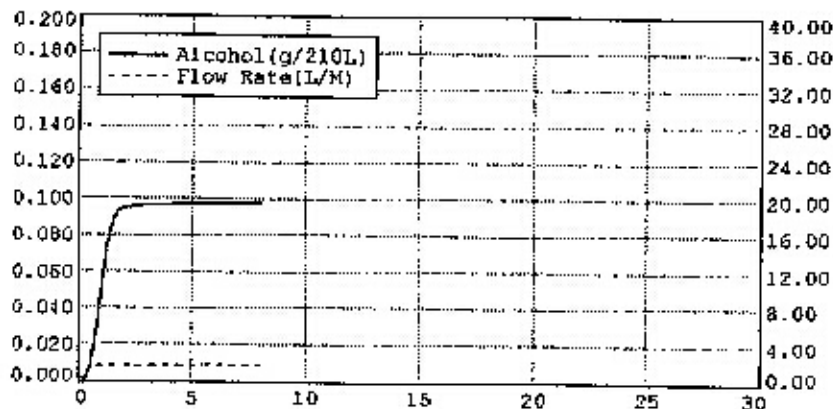
Date: 05/02/2014
 Time: 13:44:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.92: 0.100
 LOT #: 00813100A3
 EXPIRATION: 03/01/2015

BLANK TEST	0.000	13:45
INTERNAL STANDARD	VERIFIED	13:45
EXTERNAL STANDARD	0.098	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.098	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.098	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.098	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.098	13:50
BLANK TEST	0.000	13:50

Average = 0.0987
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

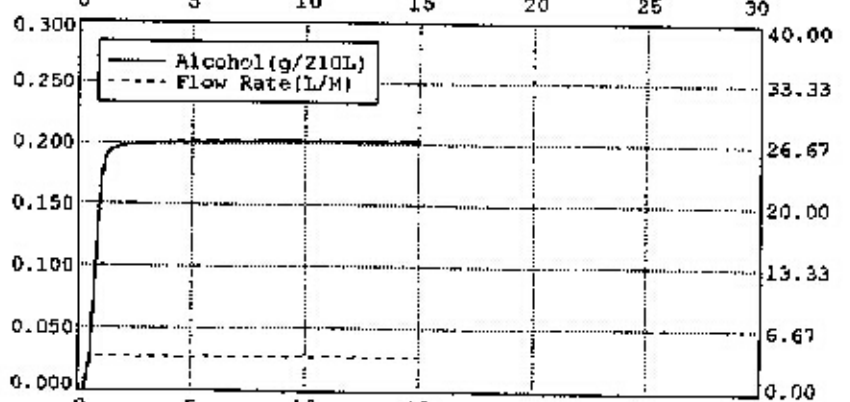
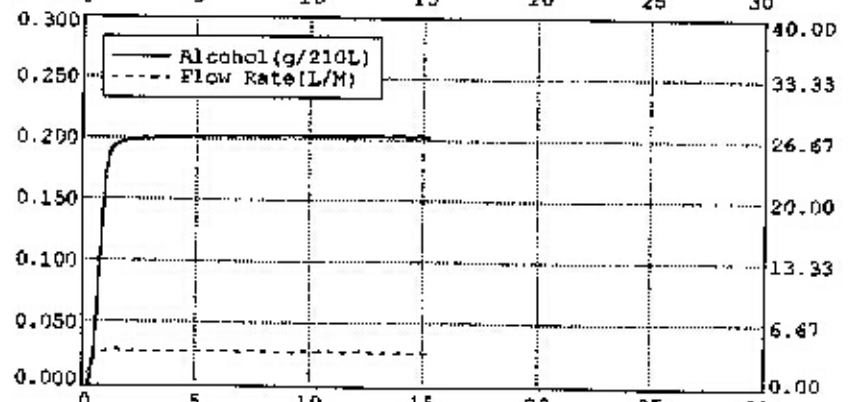
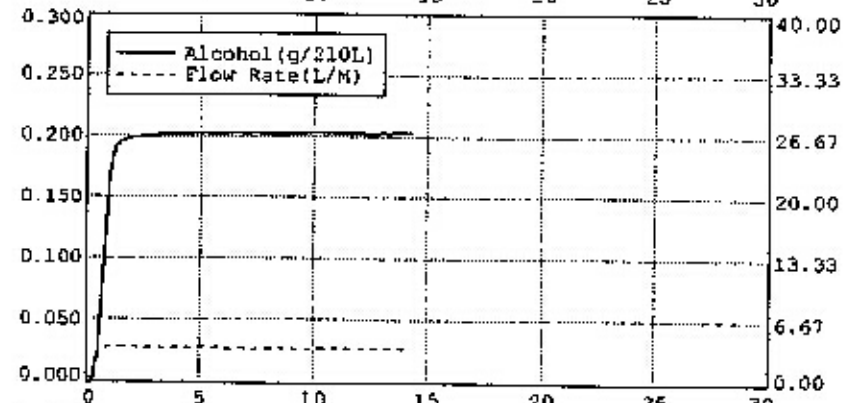
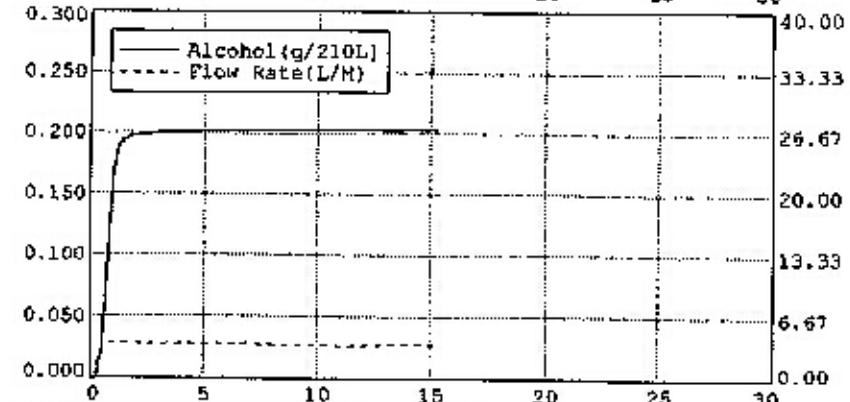
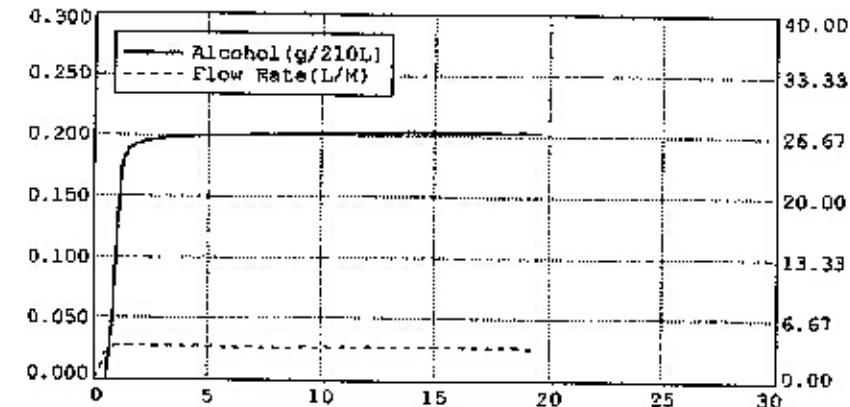
Date: 05/02/2014
 Time: 13:53:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 12120
 EXPIRATION: 08/10/2014

BLANK TEST	0.000	13:54
INTERNAL STANDARD	VERIFIED	13:54
EXTERNAL STANDARD	0.204	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.203	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.203	13:58
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.203	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.203	14:00
BLANK TEST	0.000	14:01

Average = 0.2038
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dnt: 100376

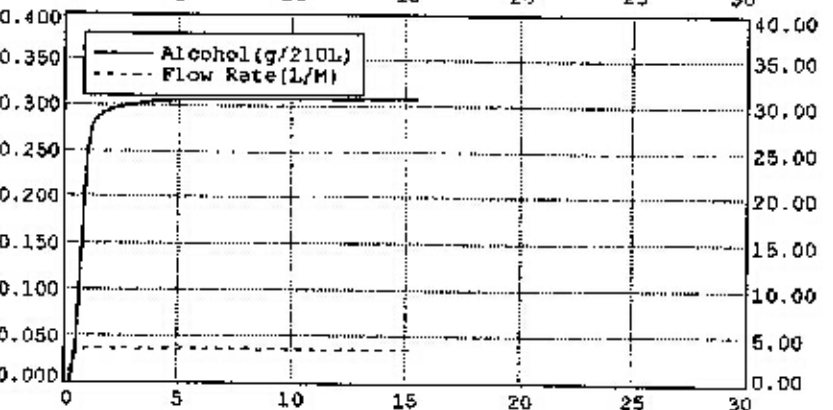
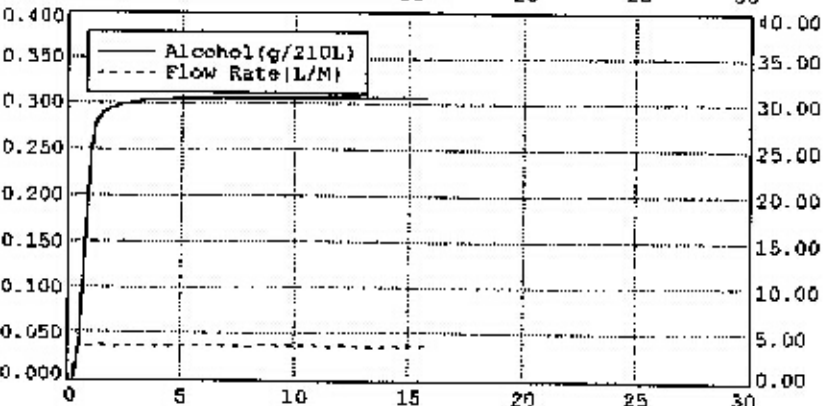
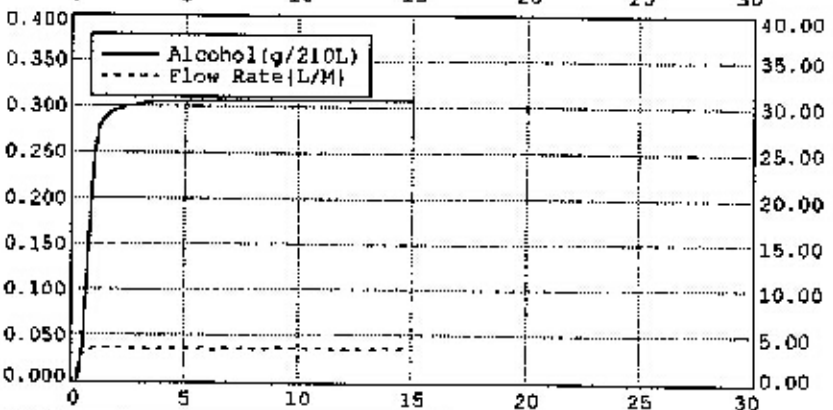
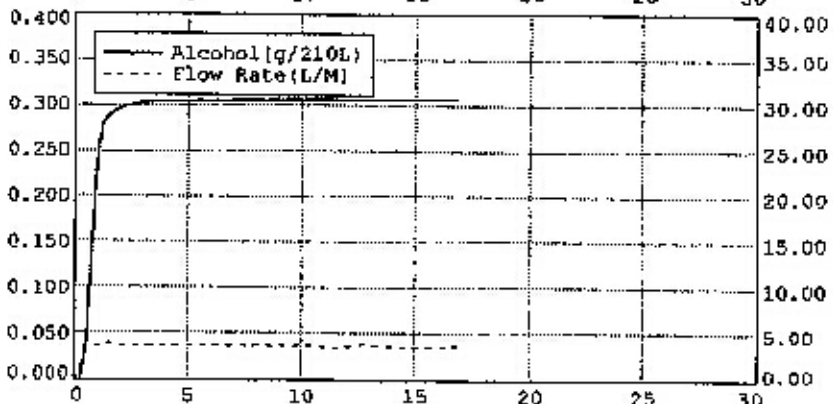
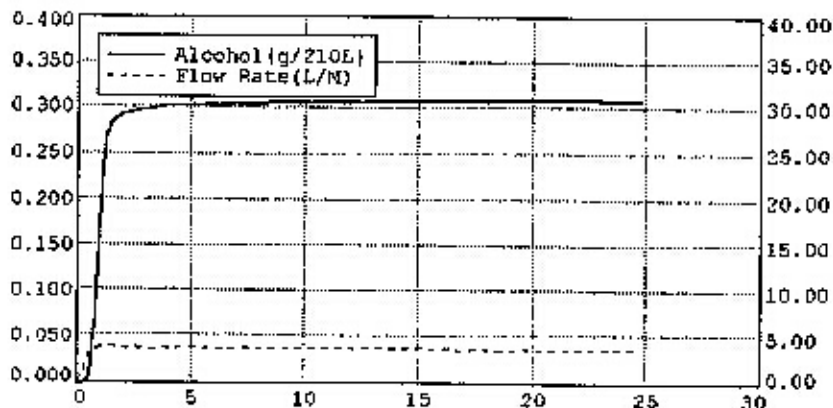
Date: 05/02/2014
Time: 14:05:20

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:06
INTERNAL STANDARD	VERIFIED	14:06
EXTERNAL STANDARD	0.308	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.306	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.307	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.307	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.307	14:12
BLANK TEST	0.000	14:13

Average = 0.3075
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE# dmt: 100376

Date: 05/01/2014
 Time: 14:07:33

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

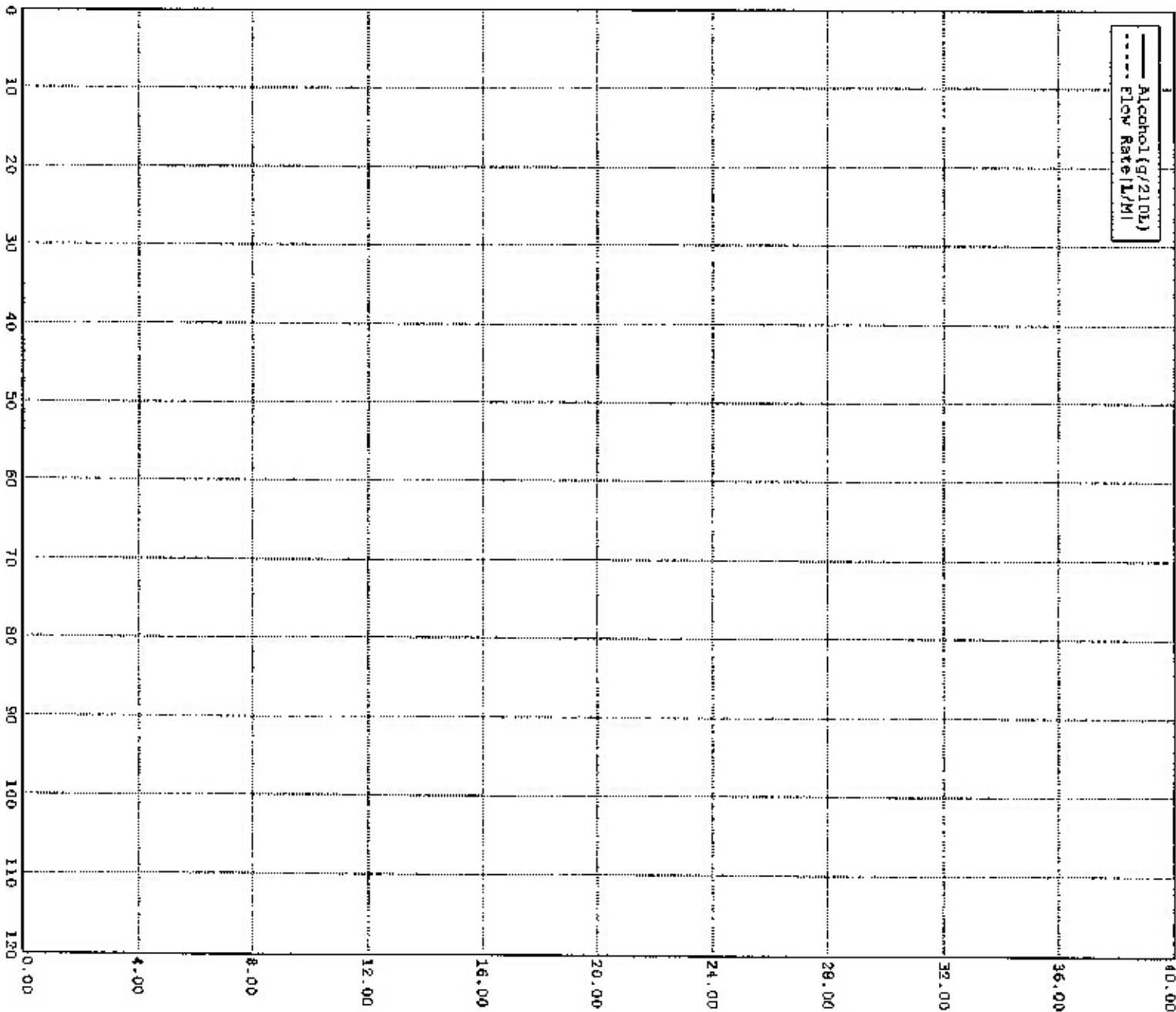
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7037

DEPT/AGENCY:
 INCOMPLETE
 CASE/REPORT: XXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.27: 0.080
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:09
BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:10
EXTERNAL STANDARD	0.079	14:10
BLANK TEST	0.000	14:11
SUBJECT SAMPLE	INCOMPLETE	14:13

Brandi Barnett



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE dnt: 100376

Date: 05/01/2014
 Time: 14:39:04

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

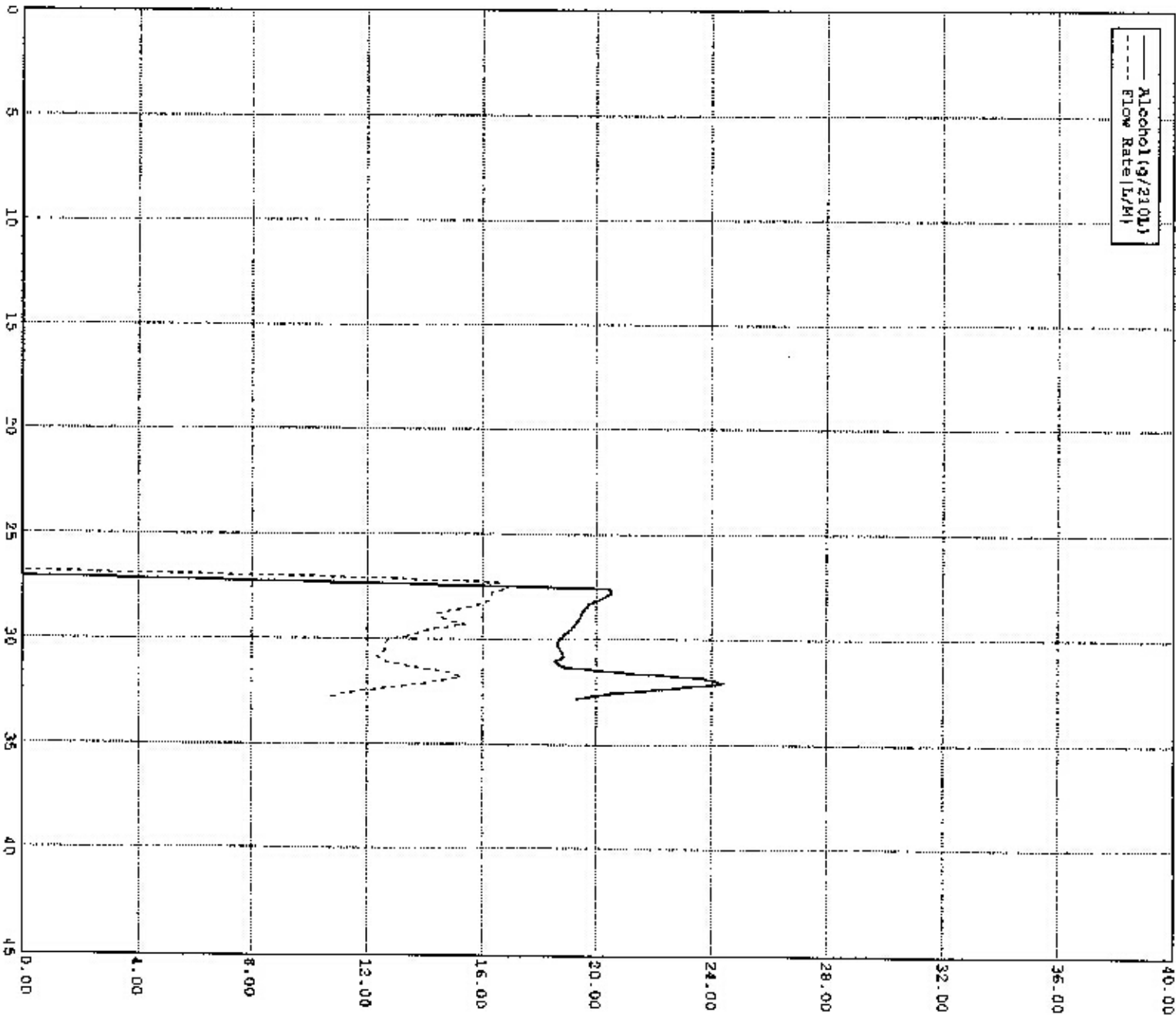
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INVALID KNOWN MOUTH ALCOHOL
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.27: 0.080
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:49
BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.079	14:50
BLANK TEST	0.000	14:51
SUBJECT SAMPLE	INVALID	14:51

BSMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100376

Date: 05/02/2014
 Time: 14:34:52

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

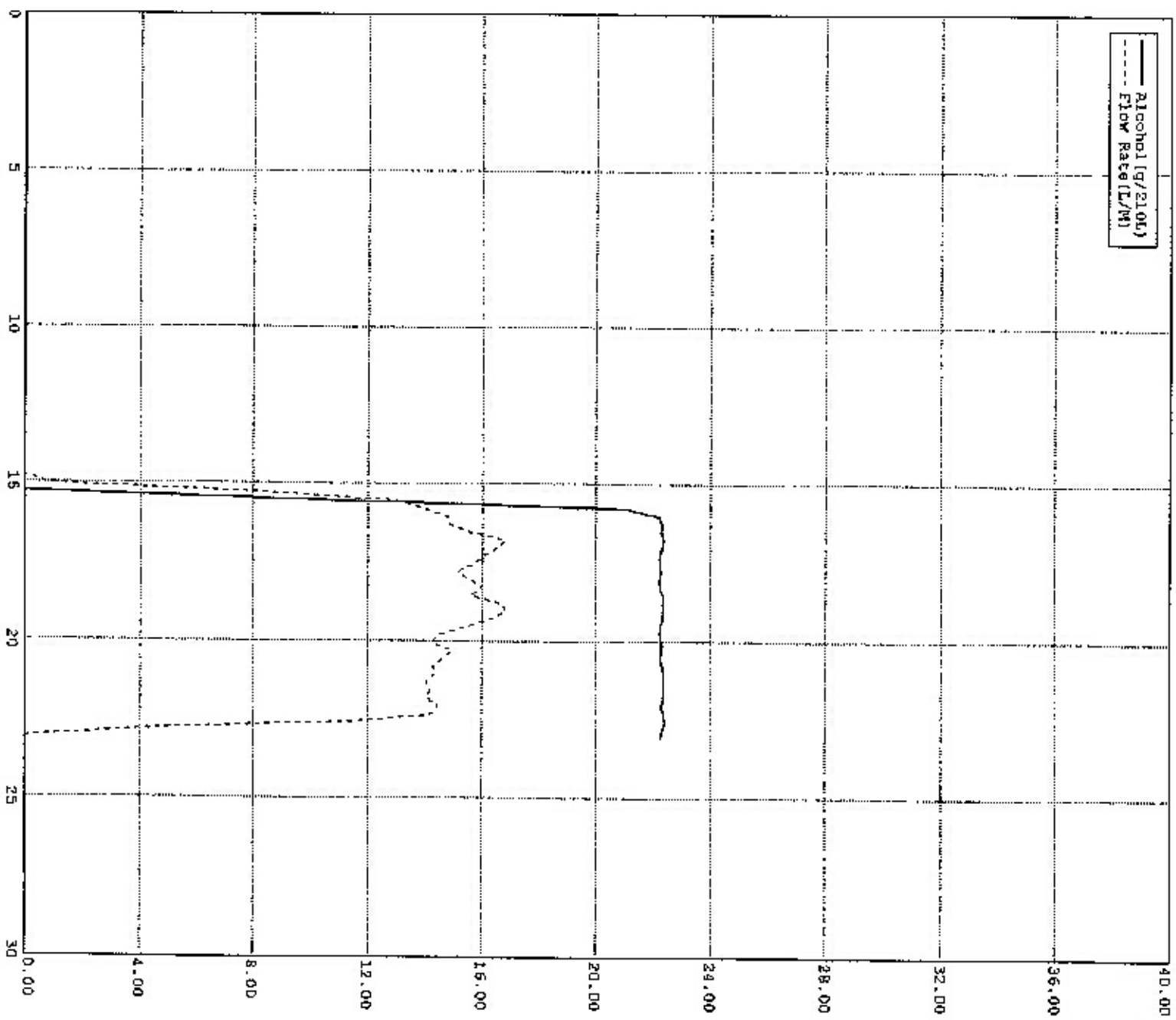
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.90: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:36
BLANK TEST	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:36
Xg = 0.077 (1.23%)	0.077	14:36
EXTERNAL STANDARD	X[1] = 0.0778 (-0.0006)	(0.0019)
BLANK TEST	0.000	14:37
SUBJECT SAMPLE	INTERFERENCE	14:37
X[1] = 0.1119 (-0.0153)	(0.0004)	

BBMB



SUBJECT TEST

Alaska Department of Public Safety
ZADAMASTER dmt: 100376

Date: 05/02/2014
Time: 14:44:38

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

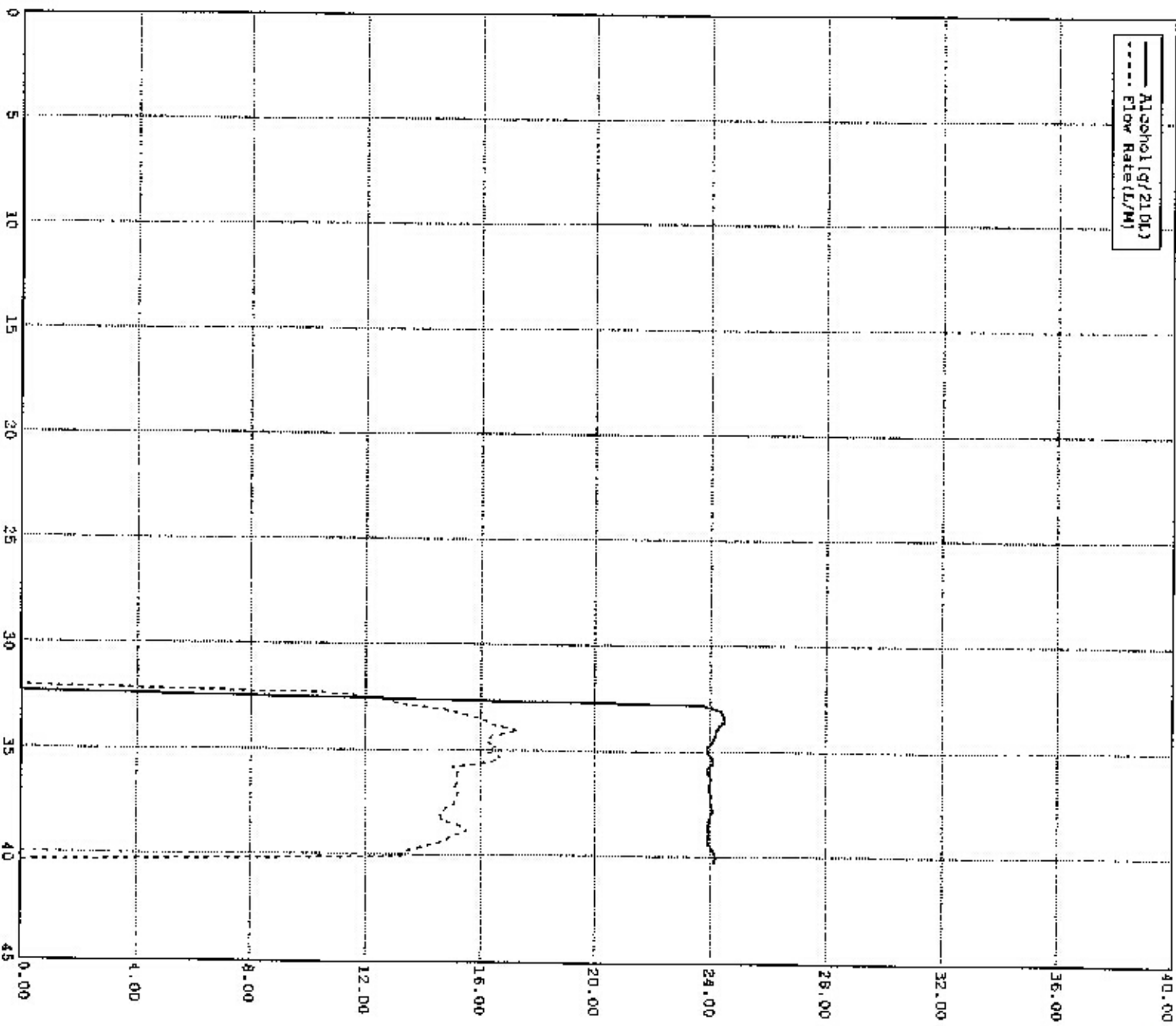
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.90: 0.079
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:46
BLANK TEST	0.000	14:46
INTERNAL STANDARD	VERIFIED	14:46
Xg = 0.077 (1.12e)		
EXTERNAL STANDARD	0.078	14:47
X[1] = 0.0786 (0.0004)	(0.0009)	
BLANK TEST	0.000	14:48
SUBJECT SAMPLE	INTERFERENCE	14:48
X[1] = 0.1207 (-0.0276)	(0.0004)	

BMFB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 05/02/2014
Time: 14:57:05

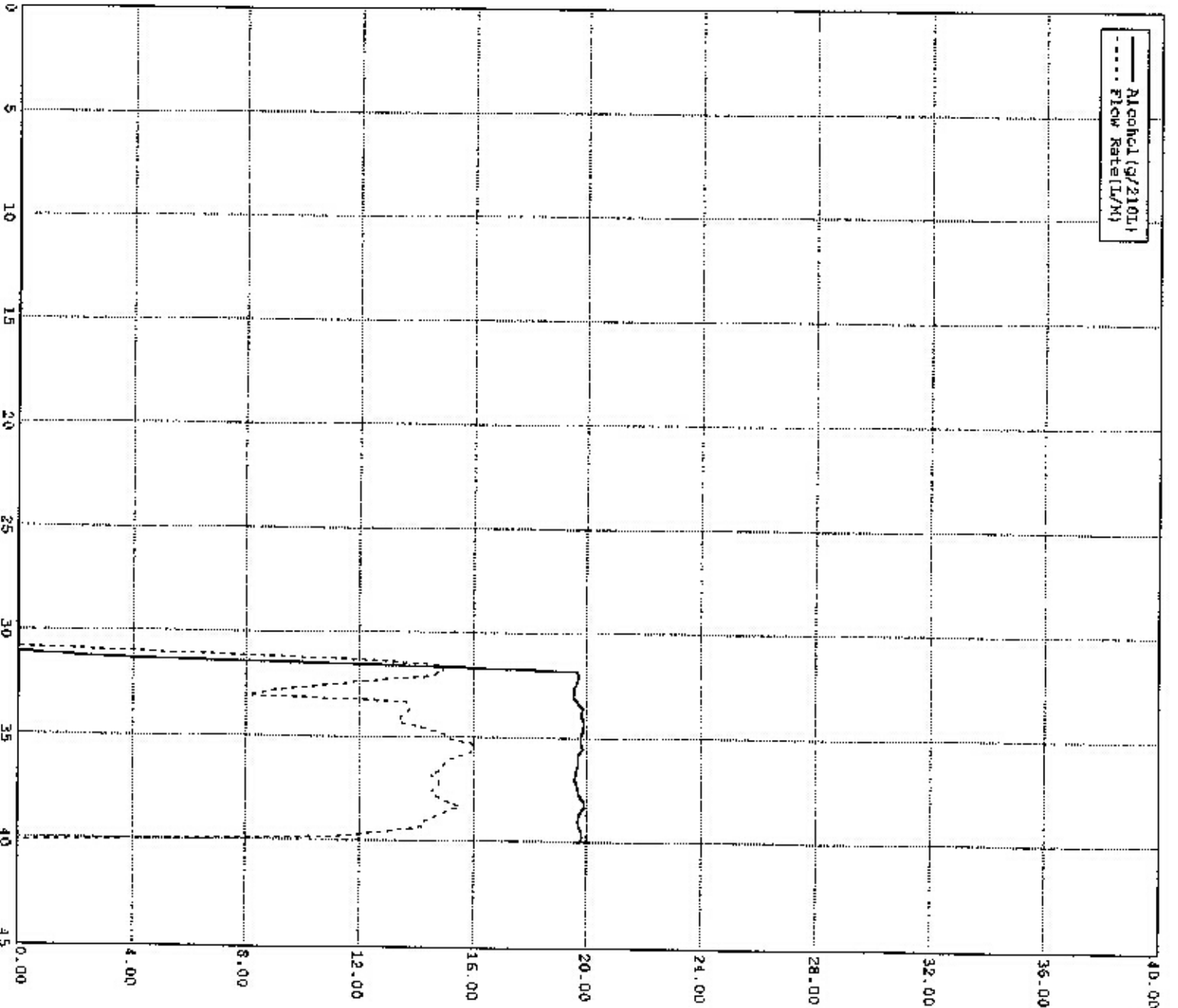
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
INTERFERENCE NEGATIVE CONTROL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AP 29.90: 0.079
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:58
BLANK TEST	0.000	14:58
INTERNAL STANDARD	VERIFIED	14:58
Xq = 0.077 (0.908)	0.078	14:58
EXTERNAL STANDARD	X[1] = 0.0762 (0.0002)	(0.0014)
BLANK TEST	0.000	14:59
SUBJECT SAMPLE (Vol=2.05L)	0.099	15:00
X[1] = 0.0992 (-0.0010)	(0.0002)	
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.078	15:01
X[1] = 0.0786 (0.0009)	(0.0007)	
BLANK TEST	0.000	15:02

BRMB



SUBJECT TEST

Alaska Department of Public Safety
DRYMASTER dnt: 100376

Date: 05/01/2014
Time: 14:56:08

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

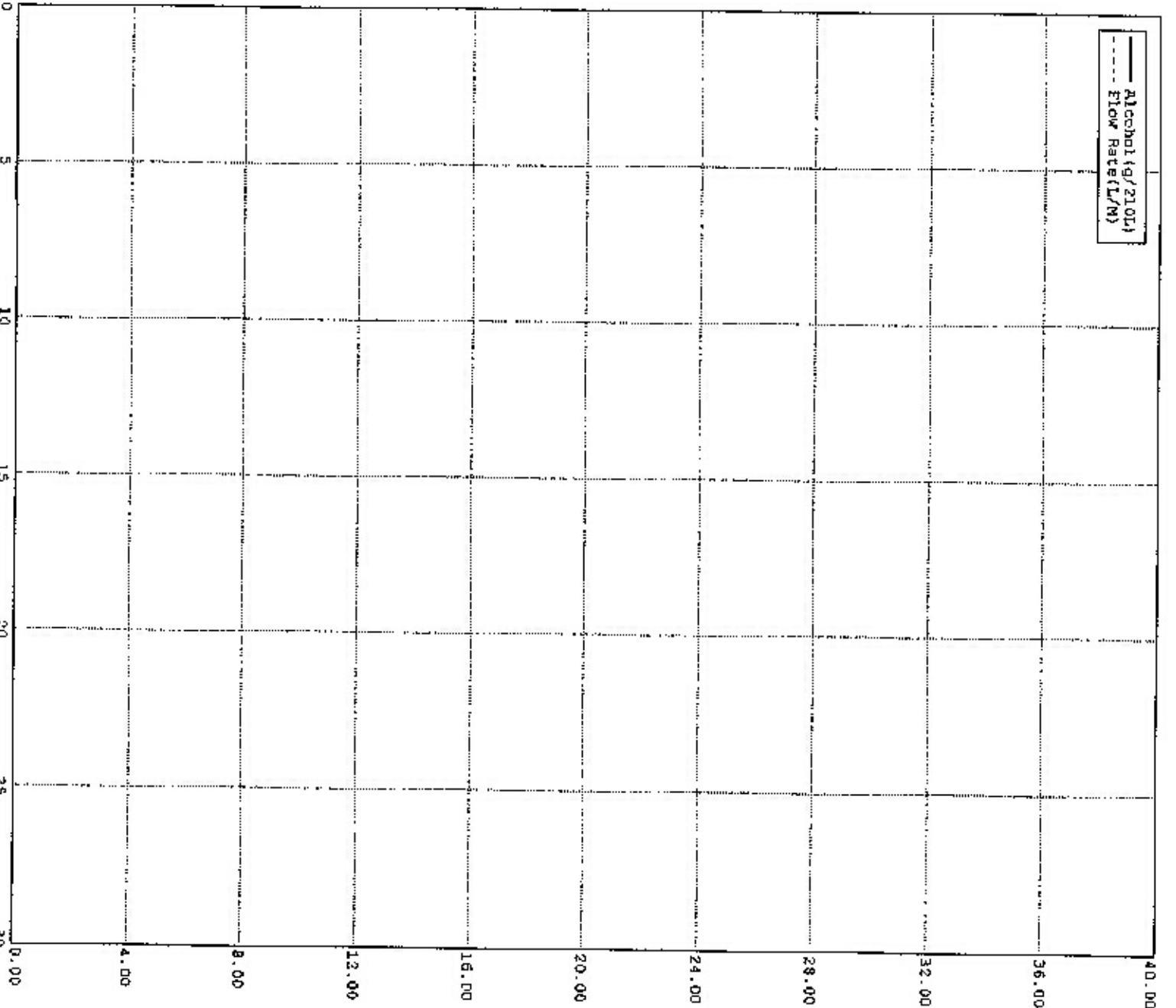
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
RADIO FREQUENCY INTERFERENCE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.27: 0.080
LOT #: 22612080A1
EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	14:57
BLANK TEST	0.000	14:58
INTERNAL STANDARD	VERIFIED	14:58
EXTERNAL STANDARD	0.079	14:58
BLANK TEST	0.000	14:59

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAREGISTER dmc: 100376

Date: 05/02/2014
 Time: 15:24:03

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

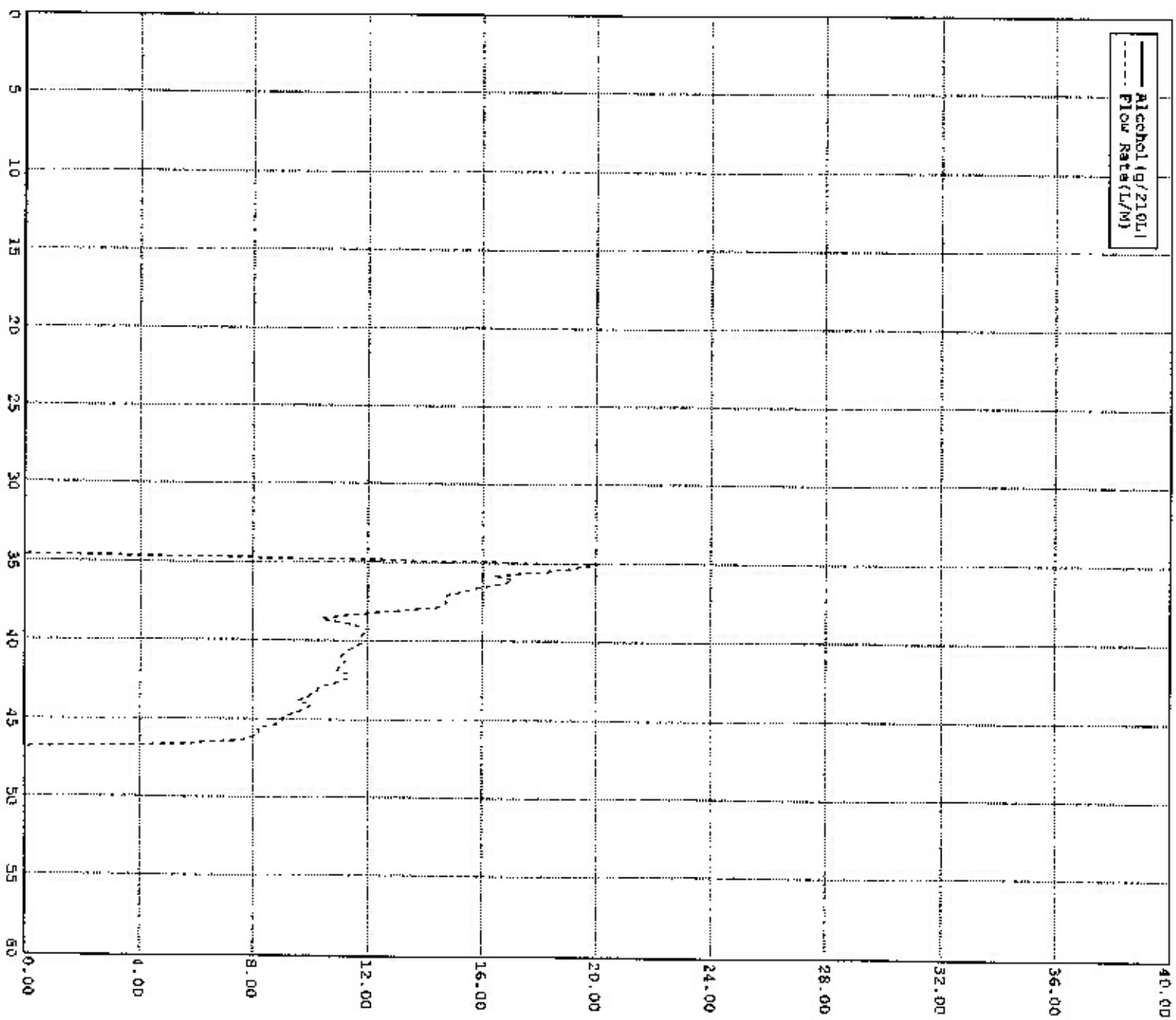
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 NON DRINKING SUBJECT
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.90: 0.079
 LOT #: 22612080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK	PASSED	15:25
BLANK TEST	0.000	15:25
INTERNAL STANDARD	VERIFIED	15:25
EXTERNAL STANDARD	0.078	15:25
BLANK TEST	0.000	15:26
SUBJECT SAMPLE	0.000	15:27
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.079	15:28
BLANK TEST	0.000	15:29

BBMB



Final page for report

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7/3/2014