

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 100402 Analyst Brandi Barnett Start Date 8/21/15

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 09214080A2 Exp 5/1/16

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

v. 0.200g/210L Mnf Guth Lot 15130 Exp 5/1/17

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

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

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

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 14110 Level 0.100 Exp 5/1/16

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 8/25/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 08/21/2015
Time: 09:11:47

VERSIONS

DMT: 3.01
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.5°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.85 V PASSED
(1.11 V - 2.59 V)
Cooler Voltage = 1.59 V PASSED
(0.95 V - 2.23 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 535 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.660 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.002 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 = 0.083 0.63% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100402

Date: 08/21/2015
Time: 9:23 AM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 46.6°C

Current Barometer 29.7 in
Volume (Ltr) 1.52

Settings

Lamp: 1.85 V
Bias: 80 V
Cooler: 1.69 V
Chopper: 534 Hz

Voltages (V)

Flow: 1.04 V
Detector: -0.076 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 08/12/2015
Time: 13:14:12

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.938109 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0064 0.0010 <= b2 < 0.0100
b3 = 0.0006 0.0000 <= b3 < 0.0040
Xq = 0.0825 0.0500 <= Xq < 0.2000
a21 = 1.169275 1.050 <= a21 < 1.300
a31 = 0.370388 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 08/21/2015
Time: 09:26:30

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

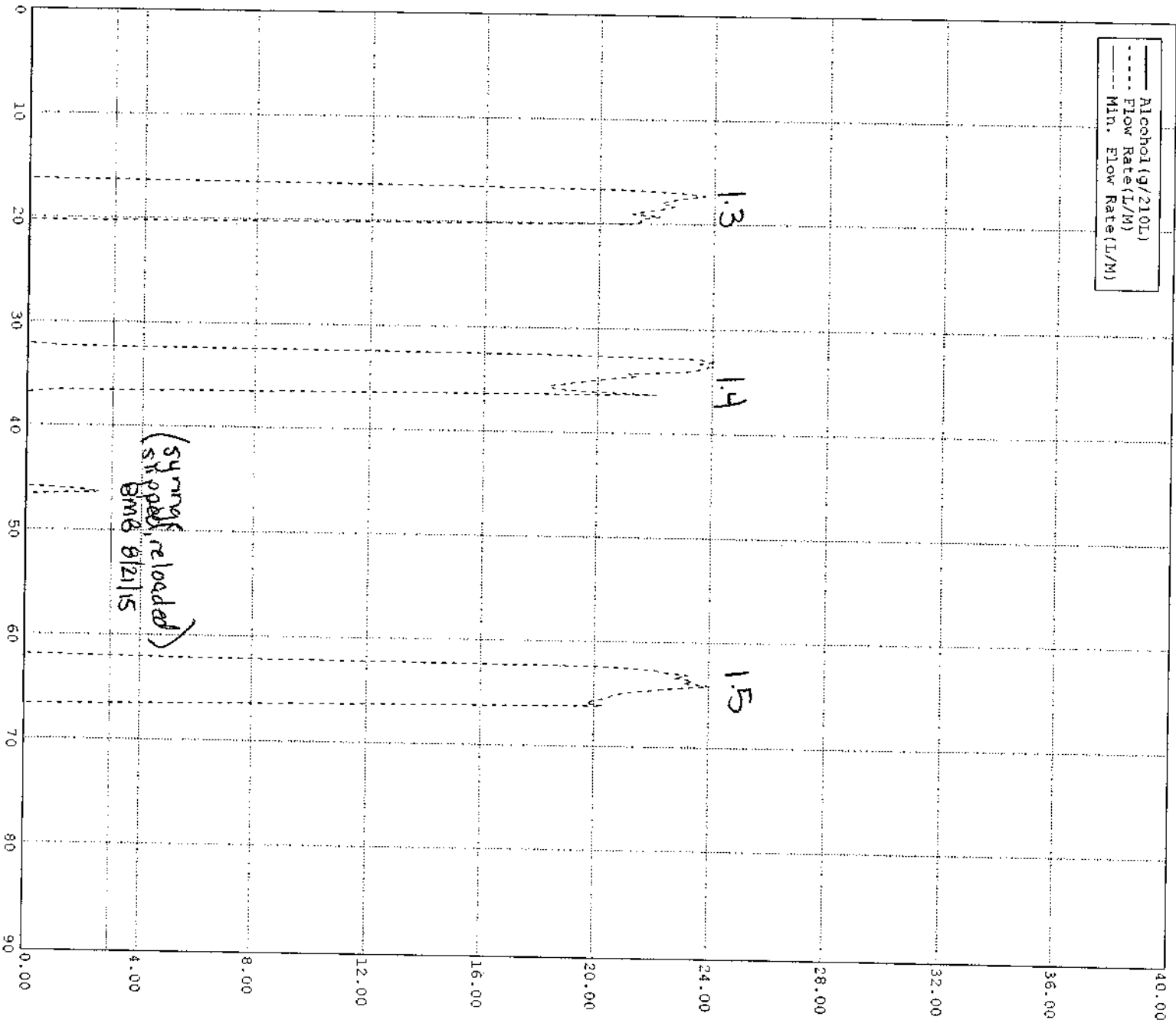
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:28
BLANK TEST	0.000	09:28
INTERNAL STANDARD	VERIFIED	09:28
EXTERNAL STANDARD	0.075	09:28
BLANK TEST	0.000	09:29
SUBJECT SAMPLE (Vol=1.51L)	0.000	09:30
BLANK TEST	0.000	09:31
EXTERNAL STANDARD	0.076	09:31
BLANK TEST	0.000	09:32

BMB



LINEARITY CHECK

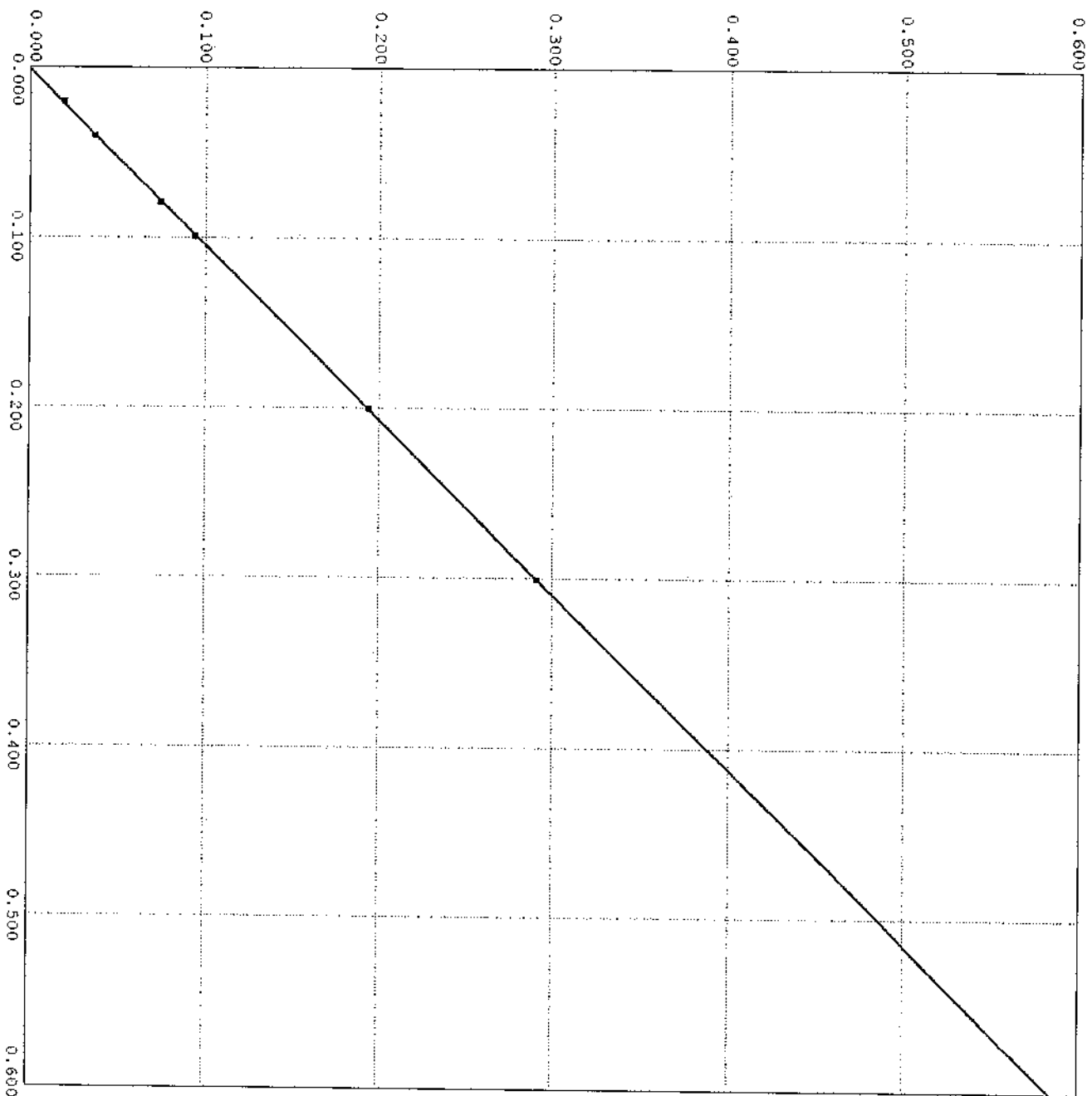
Alaska Department of Public Safety
DATAMASTER dml: 100402

Date: 08/21/2015
Time: 09:36:05

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0380	0.0000
0.079	0.0752	0.0004
0.099	0.0948	0.0004
0.200	0.1948	0.0004
0.300	0.2920	0.0007

SLOPE = 0.975861
R² = 0.999926



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100402

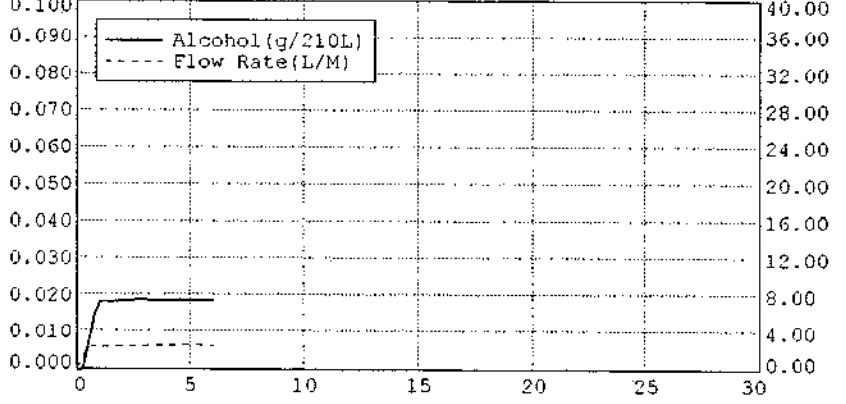
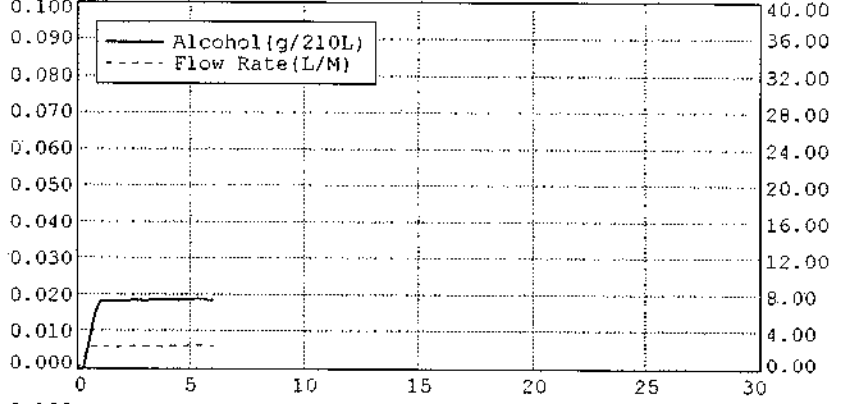
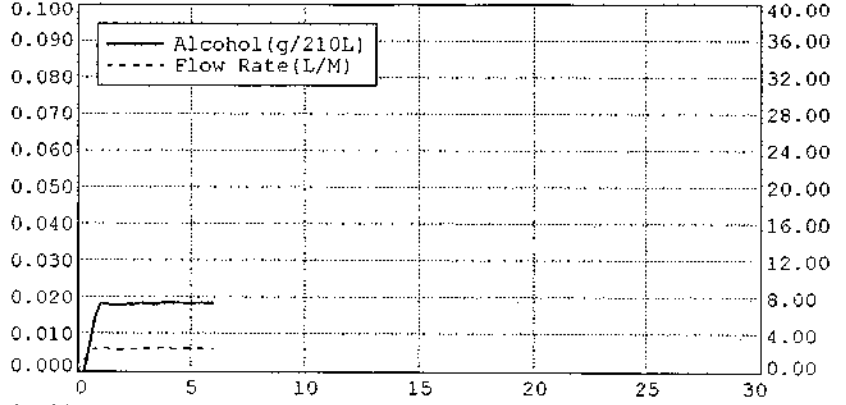
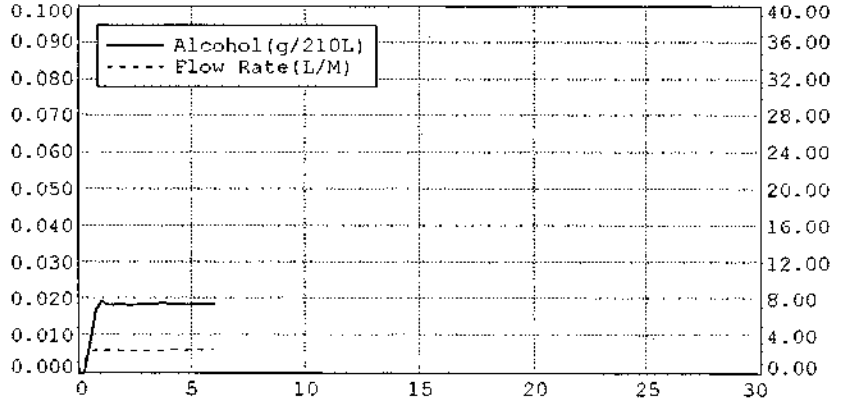
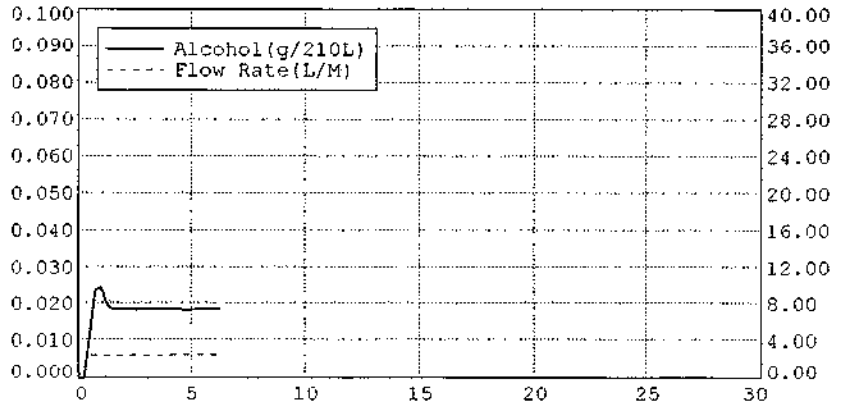
Date: 08/21/2015
Time: 09:36:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.65: 0.020
LOT #: 02915020A2
EXPIRATION: 03/05/2017
TANK PRESSURE: 550 psi

BLANK TEST	0.000	09:37
INTERNAL STANDARD	VERIFIED	09:37
EXTERNAL STANDARD	0.020	09:37
BLANK TEST	0.000	09:38
EXTERNAL STANDARD	0.020	09:38
BLANK TEST	0.000	09:39
EXTERNAL STANDARD	0.020	09:40
BLANK TEST	0.000	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

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dnt: 100402

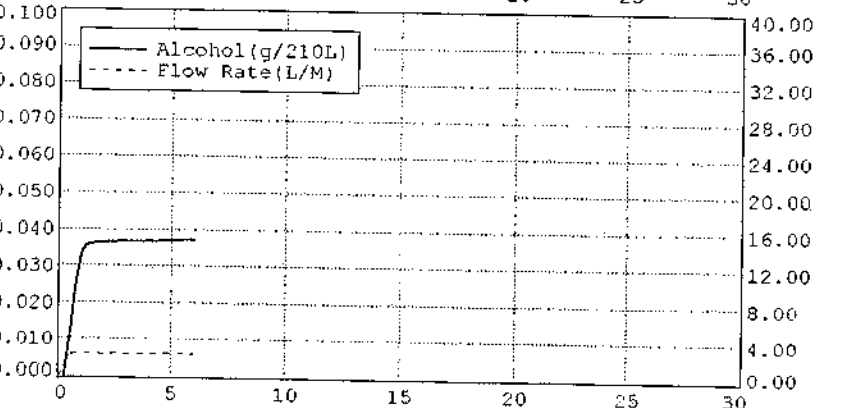
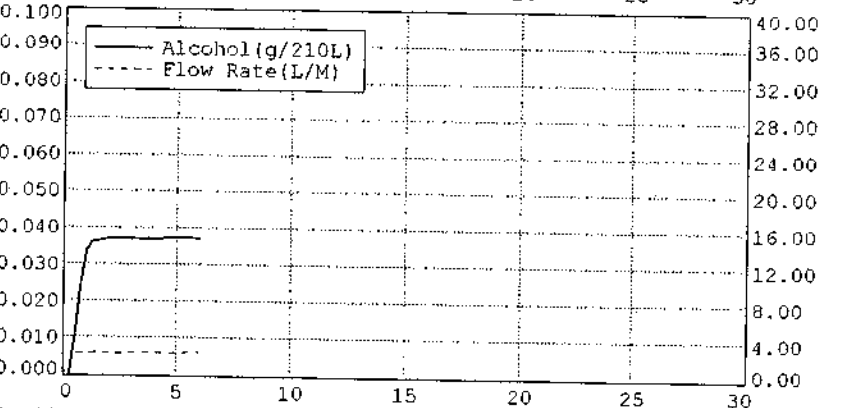
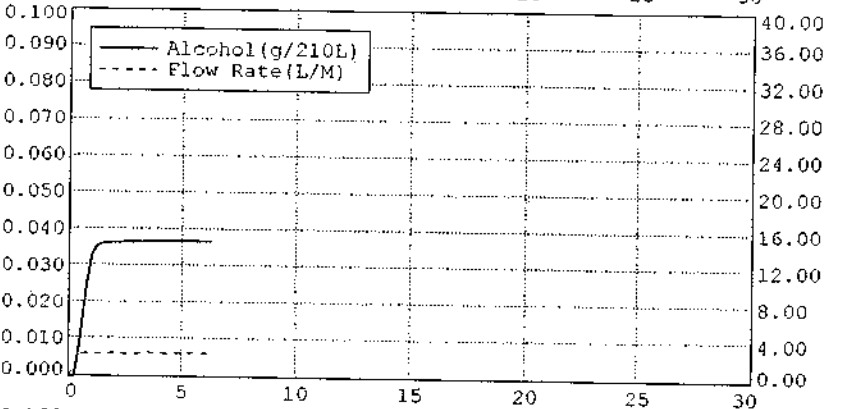
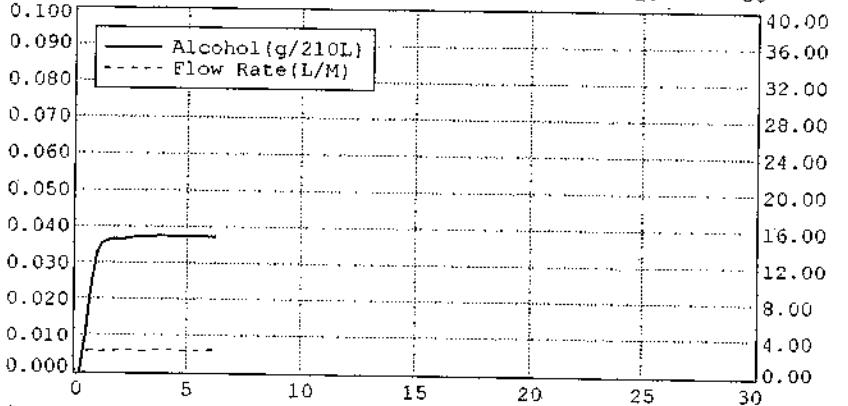
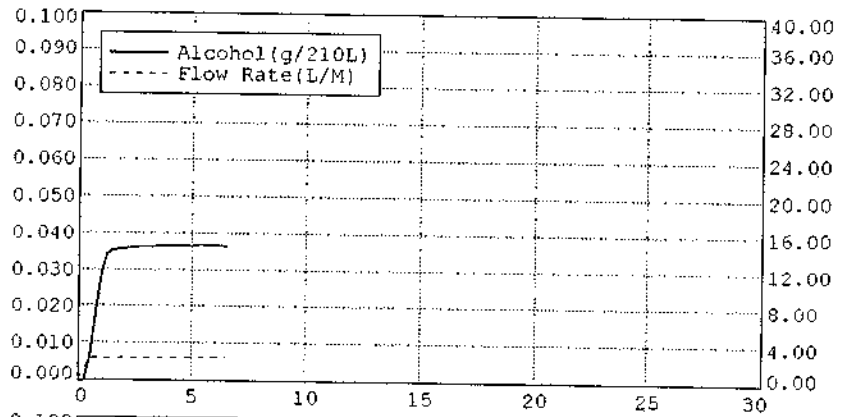
Date: 08/21/2015
 Time: 09:48:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.65: 0.040
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 651 psi

BLANK TEST	0.000	09:50
INTERNAL STANDARD	VERIFIED	09:50
EXTERNAL STANDARD	0.038	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.038	09:51
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.038	09:52
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.038	09:54
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.038	09:55
BLANK TEST	0.000	09:56

Average = 0.0380
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

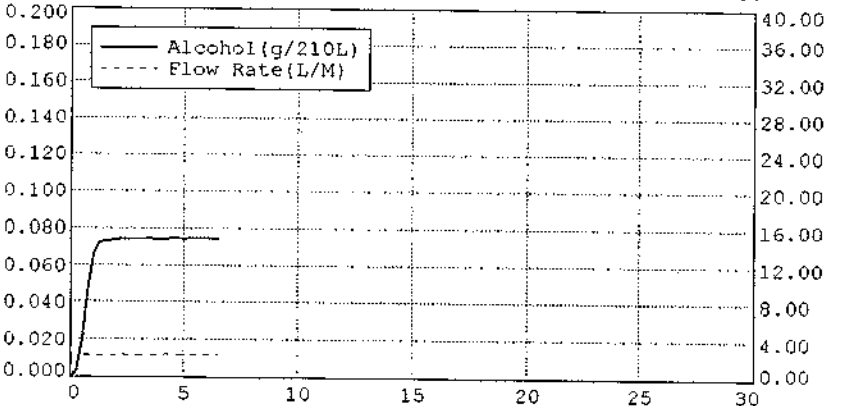
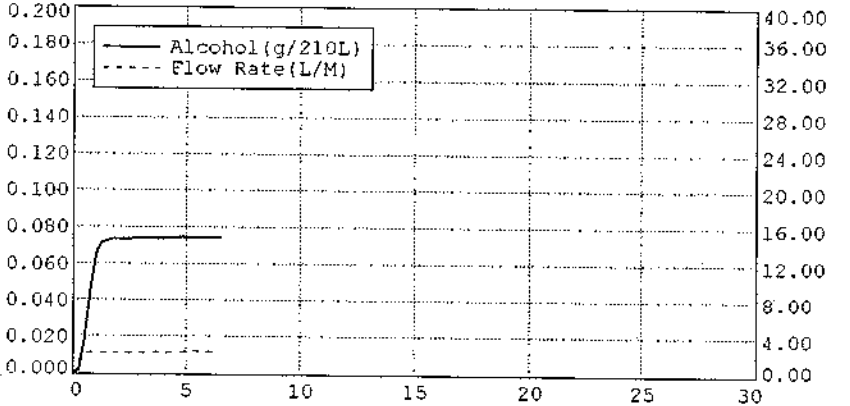
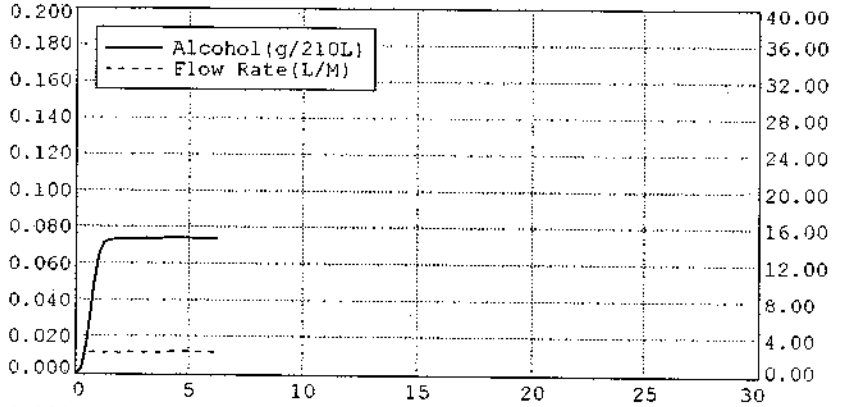
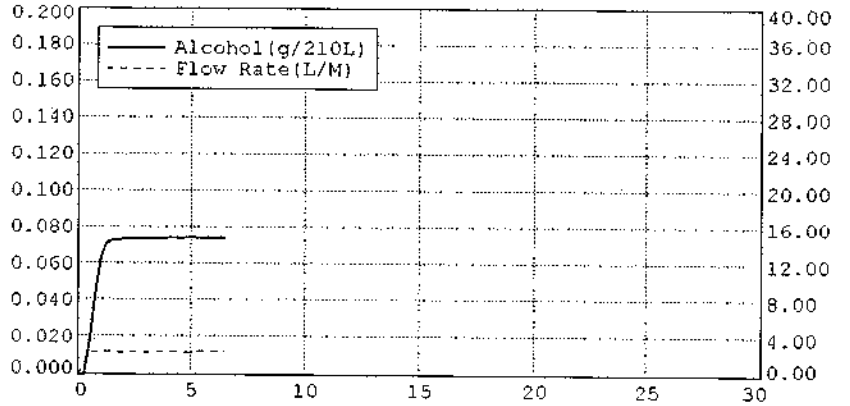
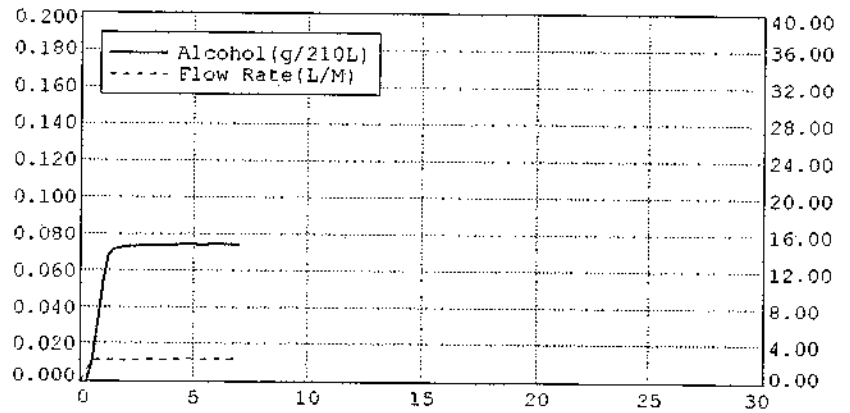
Date: 08/21/2015
 Time: 09:58:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.65: 0.079
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016
 TANK PRESSURE: 471 psi

BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	09:59
EXTERNAL STANDARD	0.076	09:59
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.075	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.075	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.075	10:03
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.075	10:04
BLANK TEST	0.000	10:05

Average = 0.0752
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

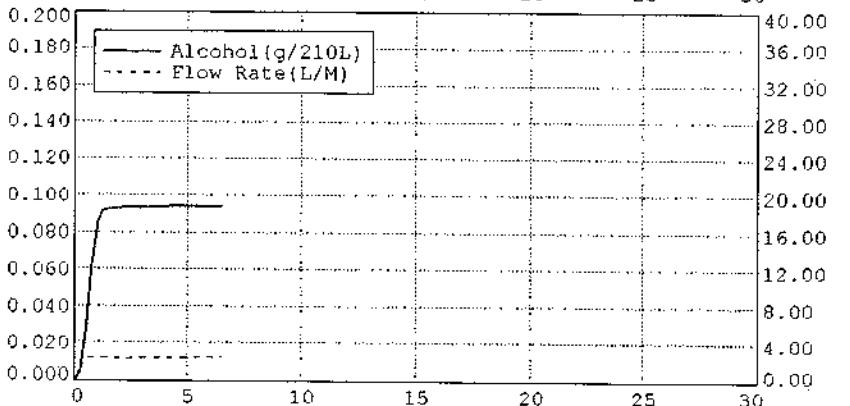
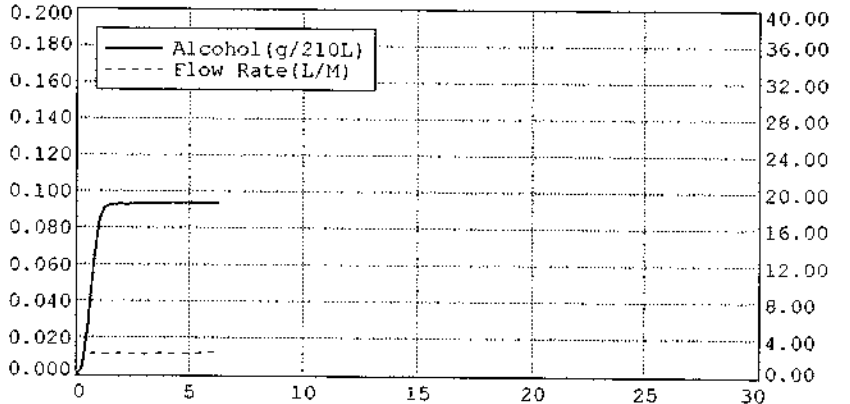
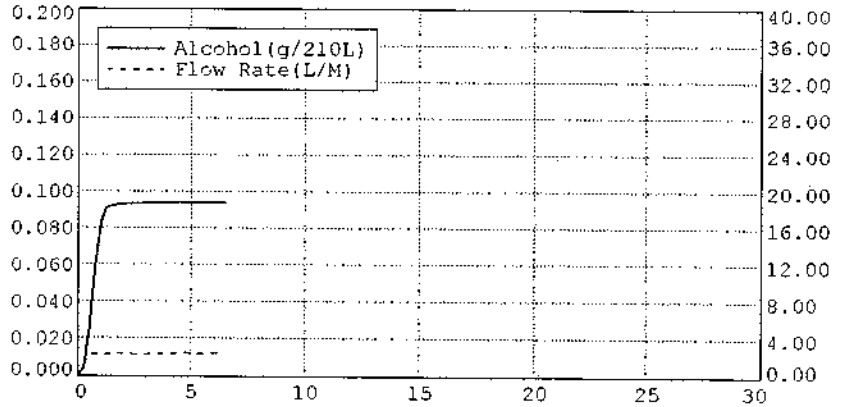
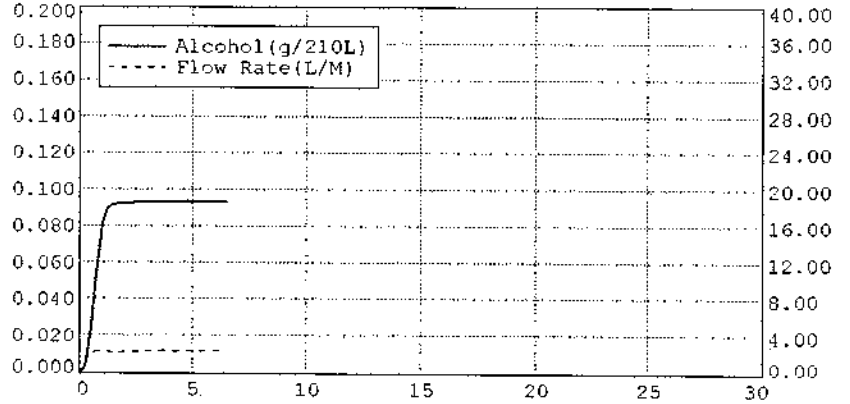
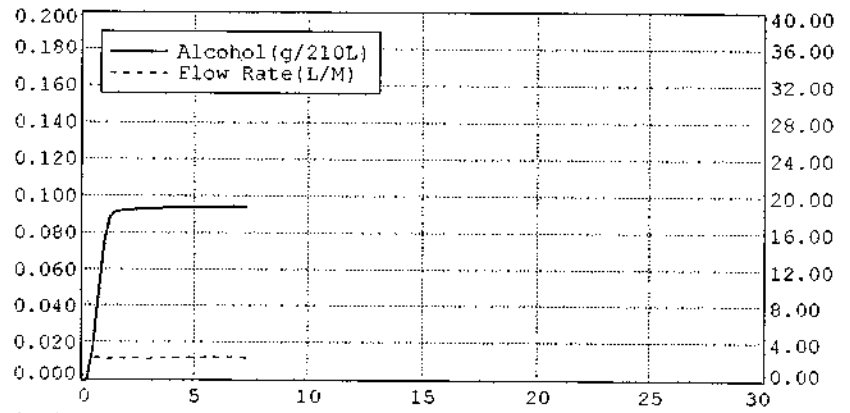
Date: 08/21/2015
 Time: 10:08:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.65: 0.099
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 511 psi

BLANK TEST	0.000	10:09
INTERNAL STANDARD	VERIFIED	10:09
EXTERNAL STANDARD	0.095	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.094	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.095	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.095	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.095	10:14
BLANK TEST	0.000	10:15

Average = 0.0948
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

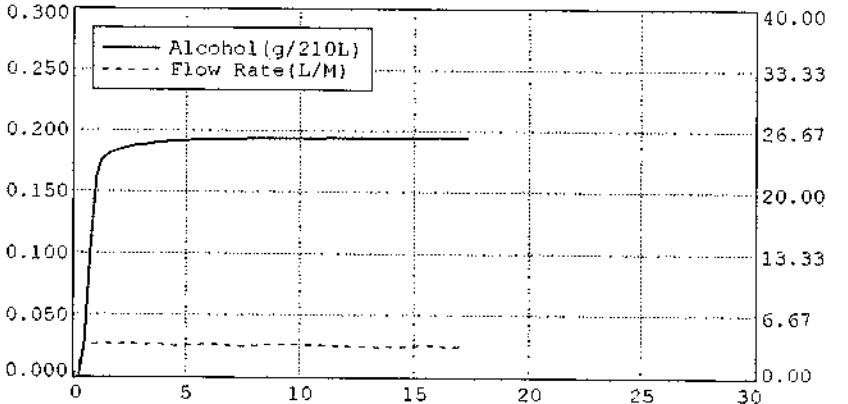
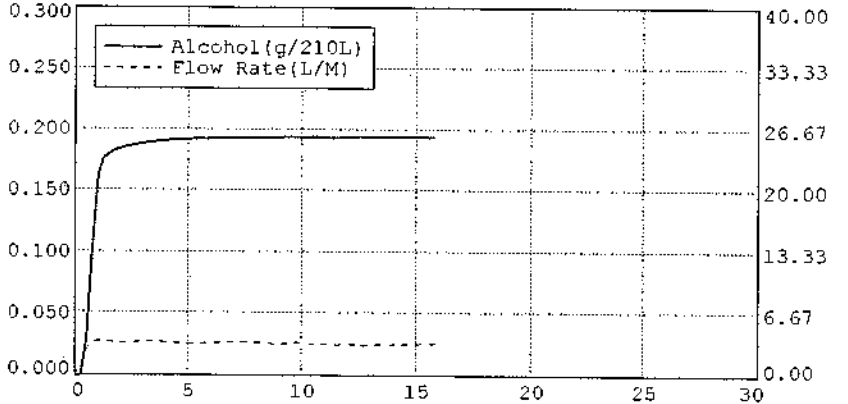
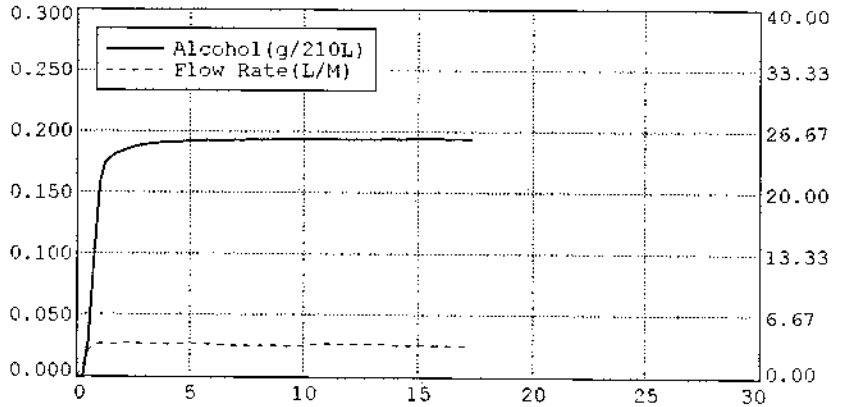
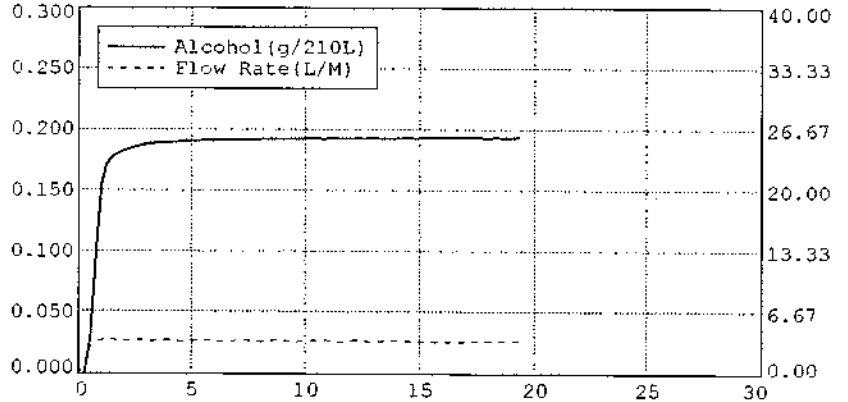
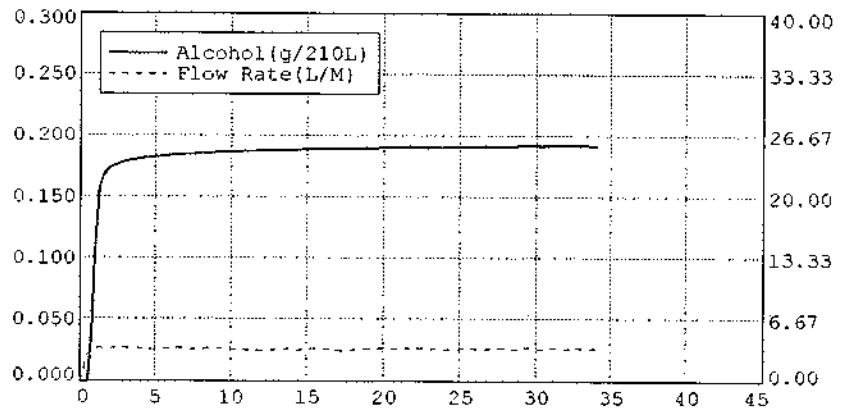
Date: 08/21/2015
 Time: 12:55:54

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:57
INTERNAL STANDARD	VERIFIED	12:57
EXTERNAL STANDARD	0.194	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.195	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.195	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.195	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.195	13:03
BLANK TEST	0.000	13:03

Average = 0.1948
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

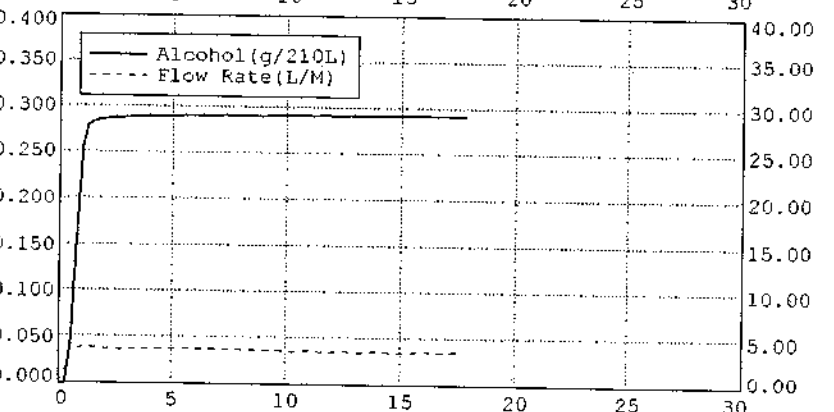
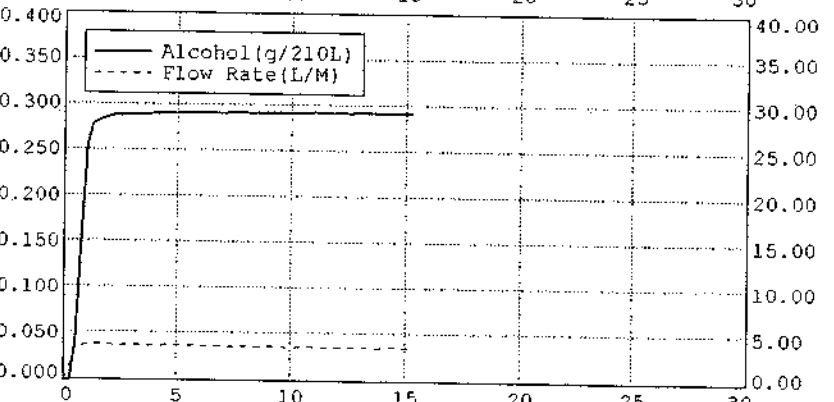
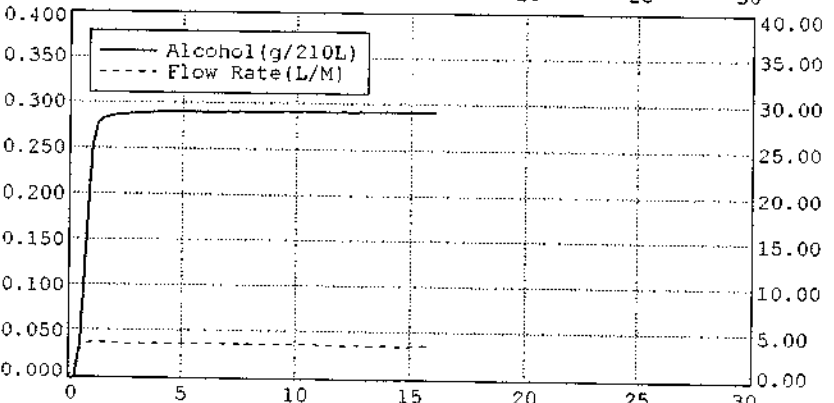
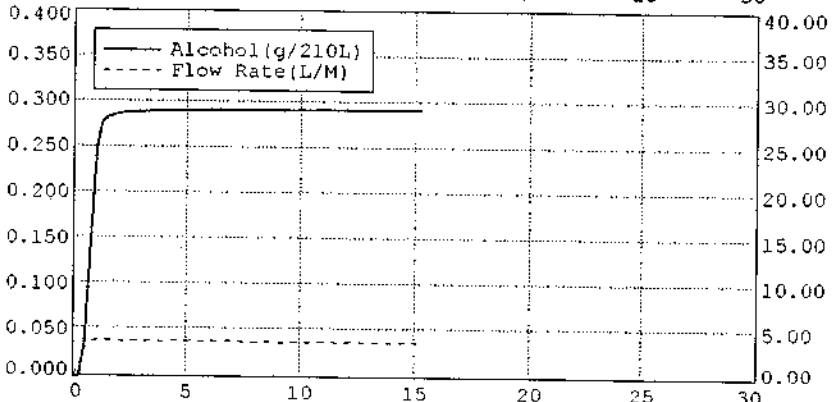
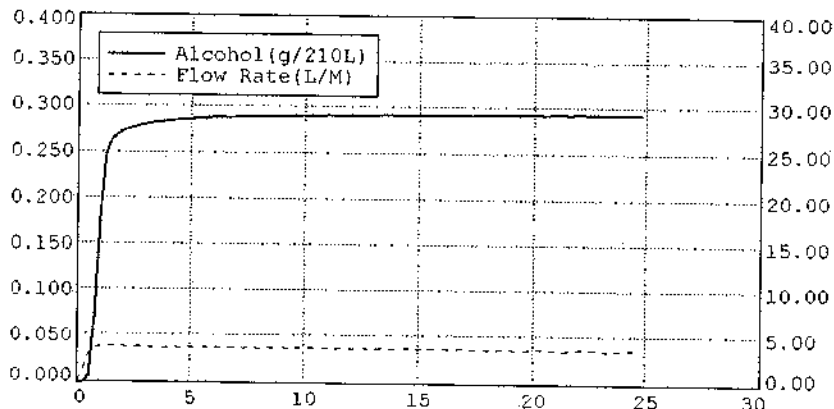
Date: 08/21/2015
 Time: 13:07:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: GUTH 14270
 EXPIRATION: 12/02/2016

BLANK TEST	0.000	13:08
INTERNAL STANDARD	VERIFIED	13:08
EXTERNAL STANDARD	0.293	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.291	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.292	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.292	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.292	13:14
BLANK TEST	0.000	13:14

Average = 0.2920
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 08/25/2015
Time: 09:10:44

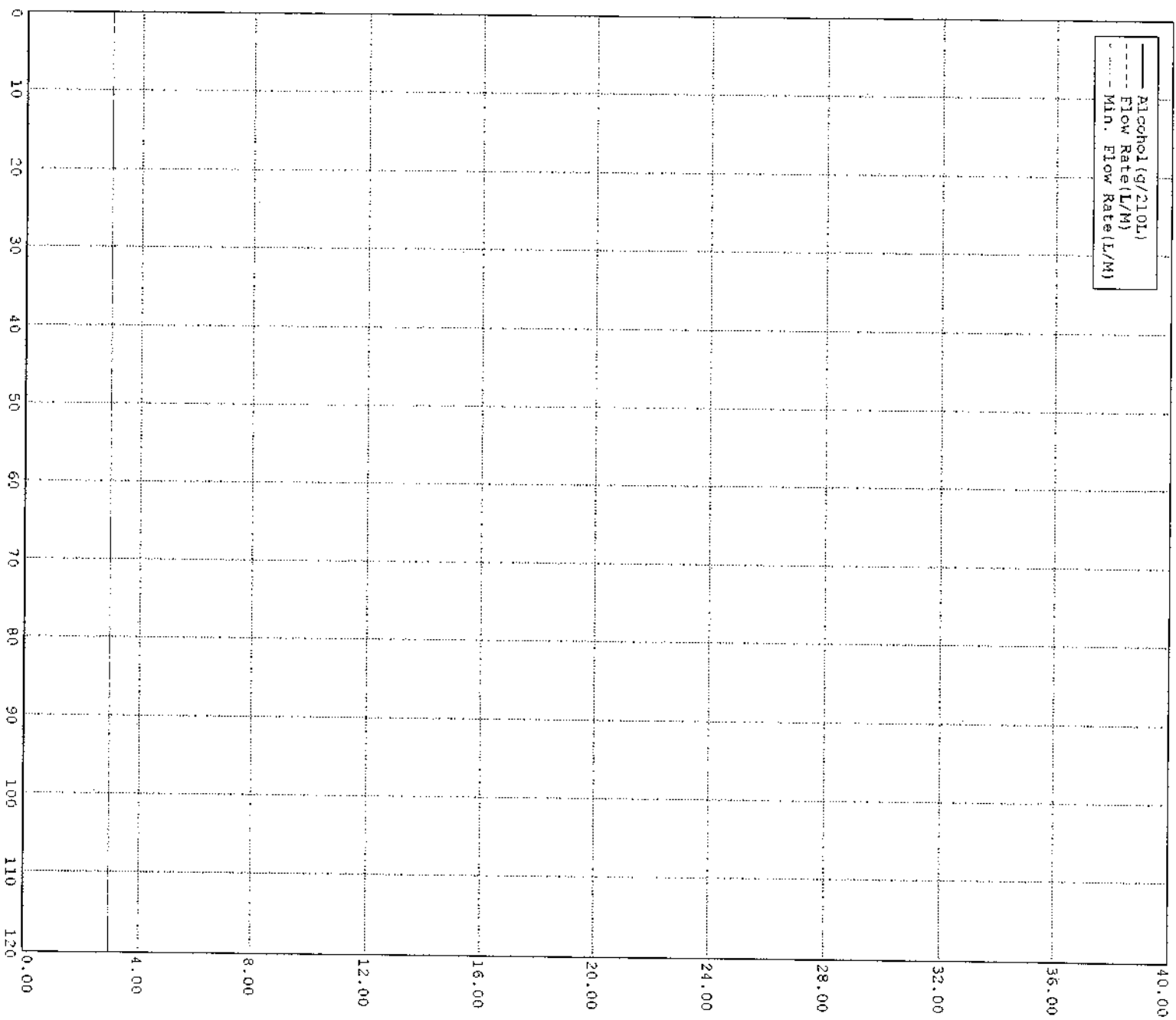
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:11
BLANK TEST	0.000	09:11
INTERNAL STANDARD	VERIFIED	09:12
EXTERNAL STANDARD	0.076	09:12
BLANK TEST	0.000	09:13
SUBJECT SAMPLE	INCOMPLETE	09:15



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 08/25/2015
Time: 09:17:17

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

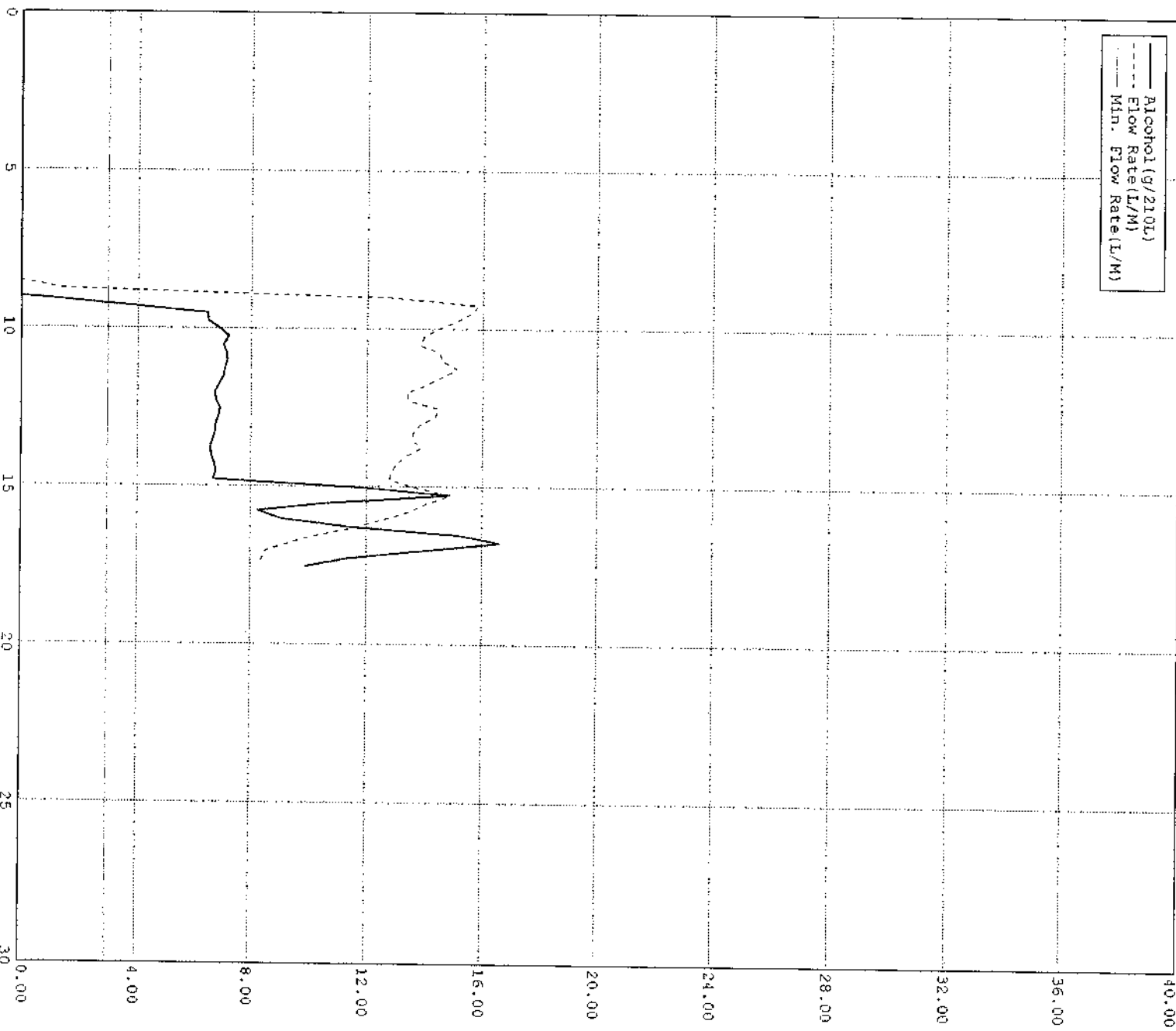
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:18
BLANK TEST	0.000	09:18
INTERNAL STANDARD	VERIFIED	09:18
EXTERNAL STANDARD	0.076	09:18
BLANK TEST	0.000	09:19
SUBJECT SAMPLE	INVALID	09:20

BRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 08/25/2015
Time: 09:34:36

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

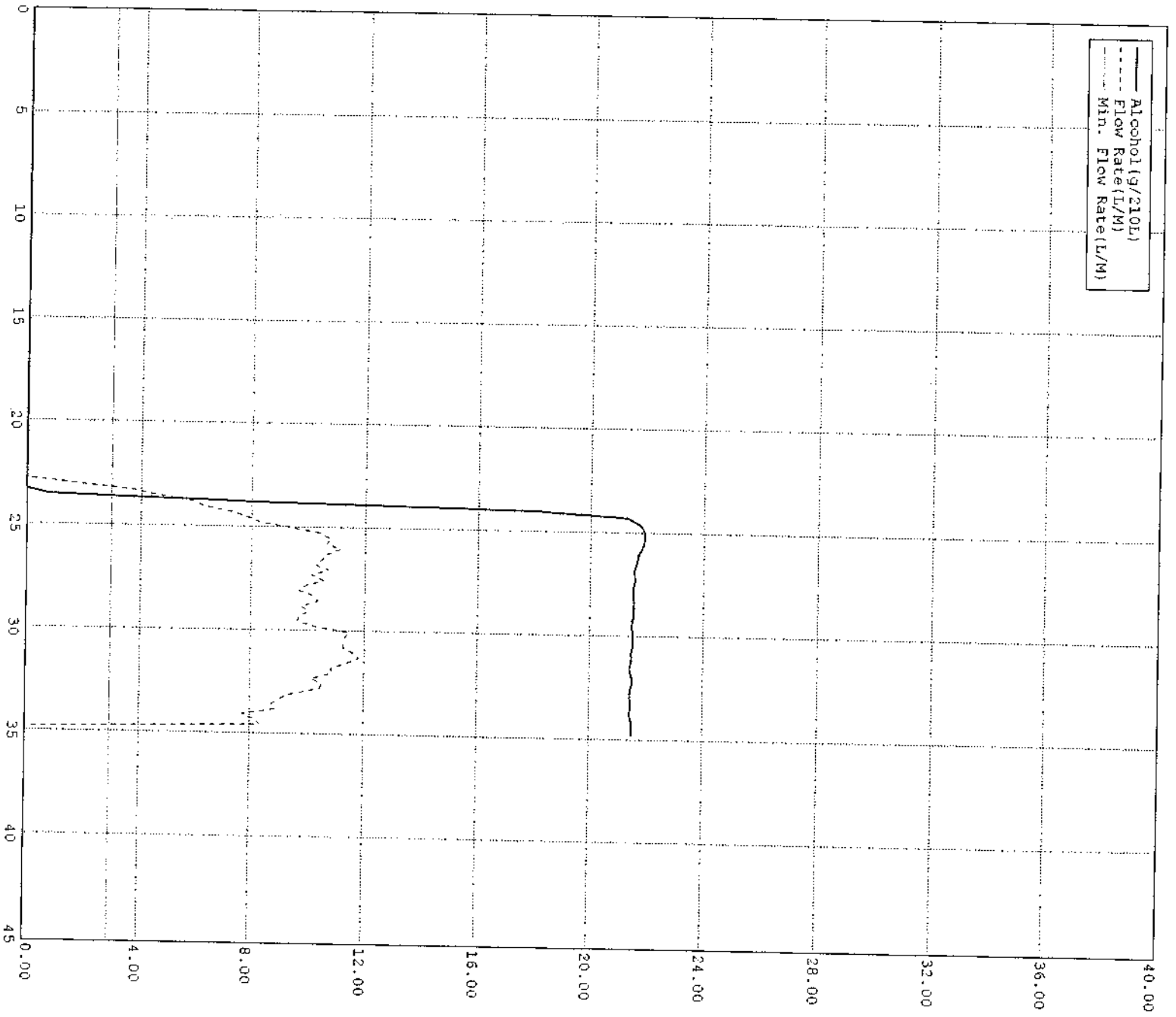
DEPT/AGENCY:
INTERFERENCE ACETONE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:35
BLANK TEST	0.000	09:35
INTERNAL STANDARD	VERIFIED	09:35
X9 = 0.083 (0.00%)		
EXTERNAL STANDARD	0.077	09:36
X[1] = 0.0767 (-0.0017)	(0.0018)	
BLANK TEST	0.000	09:37
SUBJECT SAMPLE	XXX	09:37
X[1] = 0.1081 (-0.0115)	(0.0006)	

Interference Detected

F2 Avg: -0.0015
F3 Avg: 0.0019



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 08/25/2015
Time: 09:41:05

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

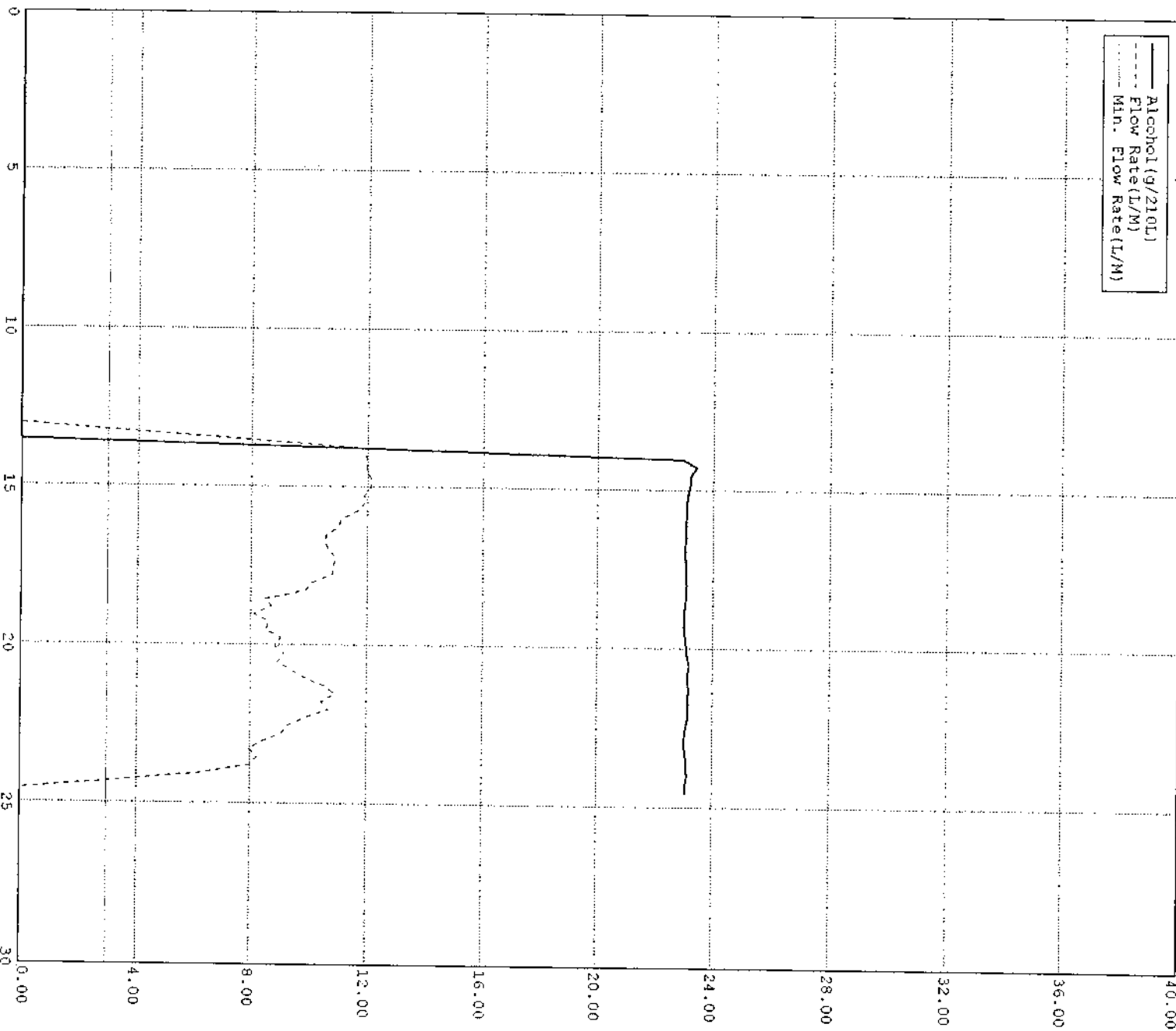

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:42
BLANK TEST	0.000	09:42
INTERNAL STANDARD	VERIFIED	09:42
Xq = 0.082 (0.11%)		
EXTERNAL STANDARD	0.077	09:42
X[1] = 0.0766 (-0.0017)	(0.0021)	
BLANK TEST	0.000	09:43
SUBJECT SAMPLE	XXX	09:43
X[1] = 0.1159 (-0.0262)	(0.0007)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 08/25/2015
Time: 09:46:29

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

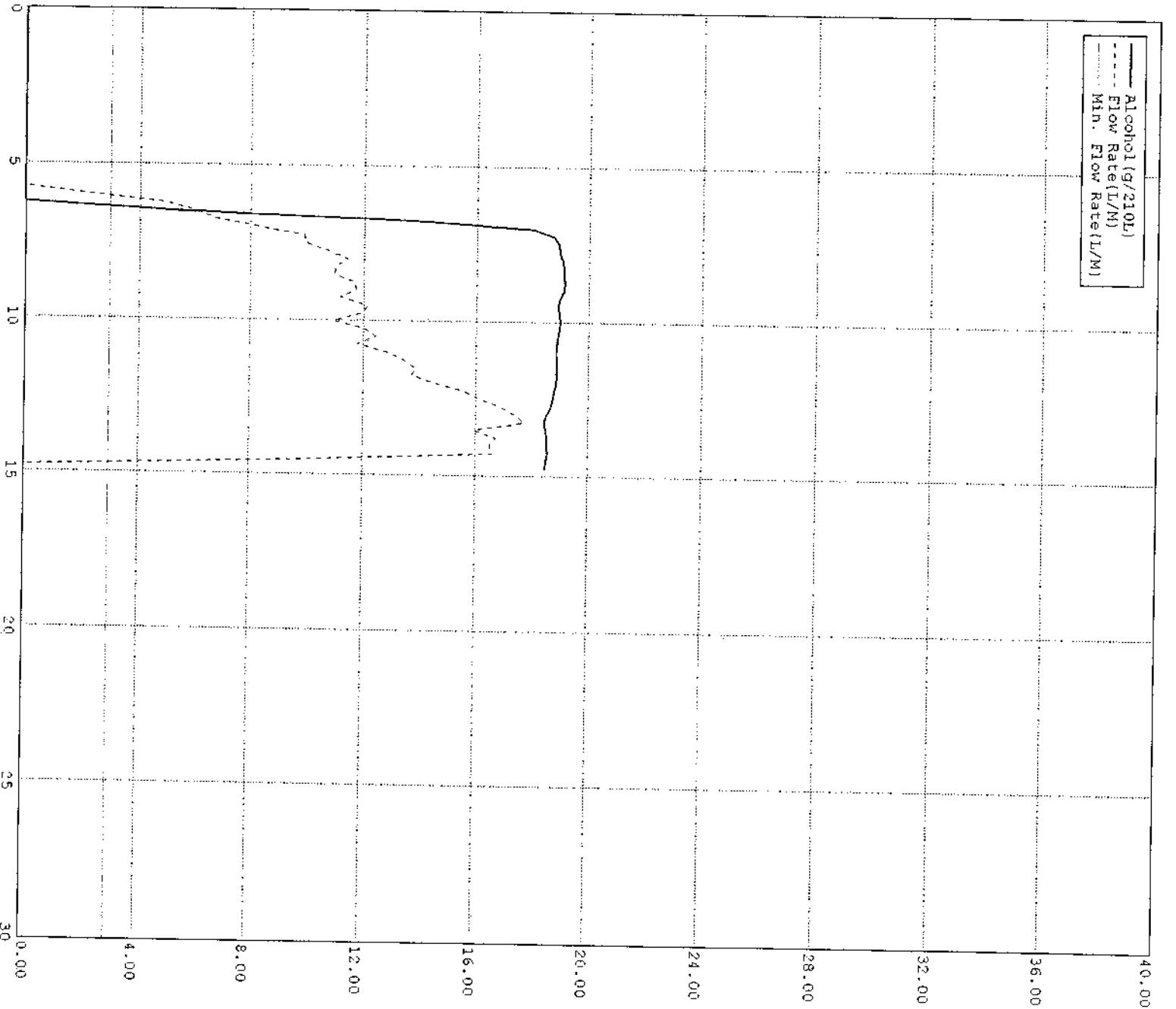
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:47
BLANK TEST	0.000	09:47
INTERNAL STANDARD	VERIFIED	09:47
Xq = 0.082 (0.32%)		
EXTERNAL STANDARD	0.076	09:47
X[1] = 0.0763 (-0.0016)	(0.0020)	
BLANK TEST	0.000	09:48
SUBJECT SAMPLE (Vol=1.77L)	0.092	09:49
X[1] = 0.0924 (0.0004)	(0.0006)	
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.076	09:50
X[1] = 0.0763 (-0.0010)	(0.0016)	
BLANK TEST	0.000	09:51

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100402

Date: 08/25/2015
Time: 09:29:01

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

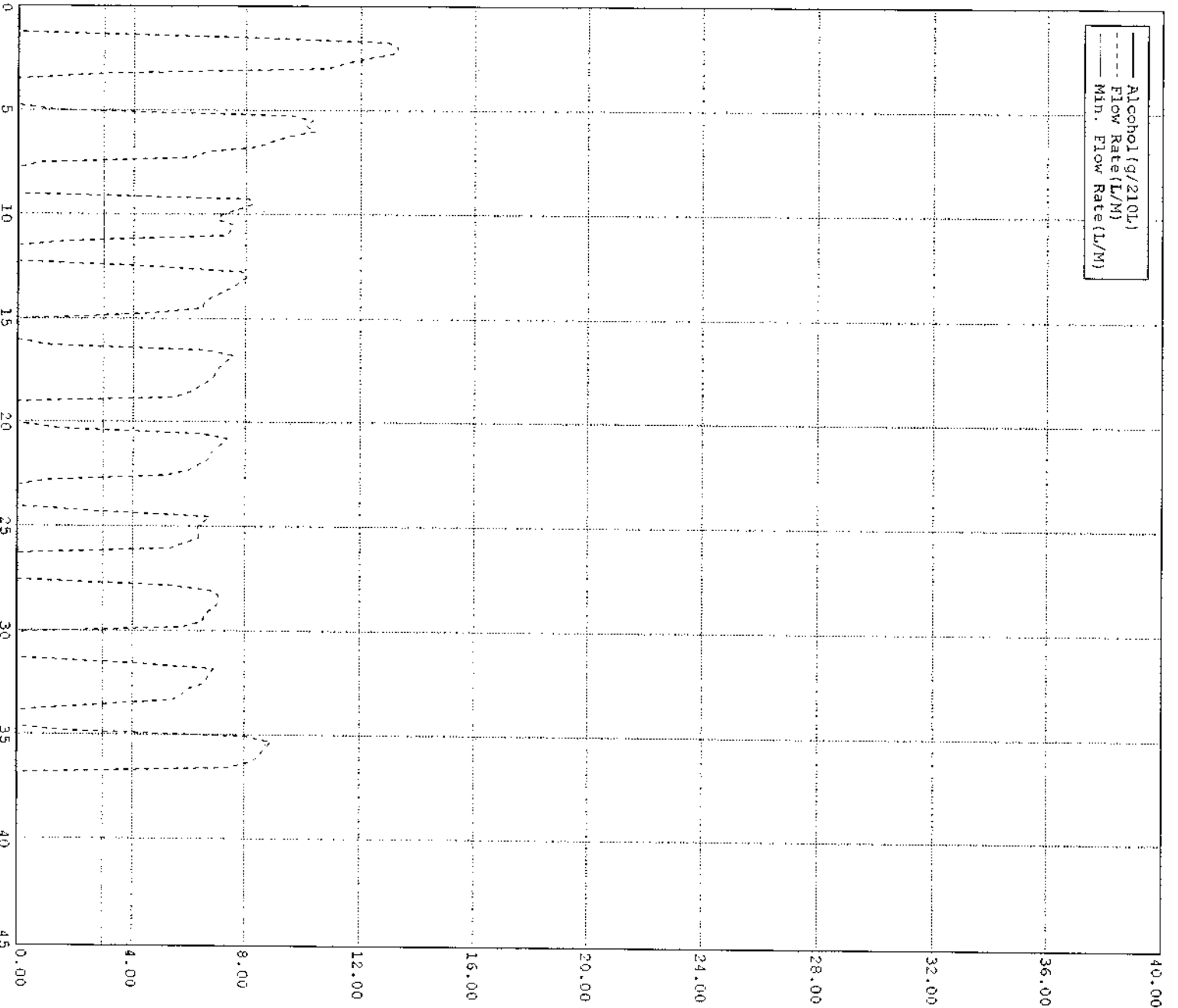
DEPT/AGENCY:
EXCEEDED ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:30
BLANK TEST	0.000	09:30
INTERNAL STANDARD	VERIFIED	09:30
EXTERNAL STANDARD	0.076	09:30
BLANK TEST	0.000	09:31
SUBJECT SAMPLE	XXX	09:32

Maximum Attempts Exceeded

Handwritten signature: BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 08/25/2015
Time: 09:24:13

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

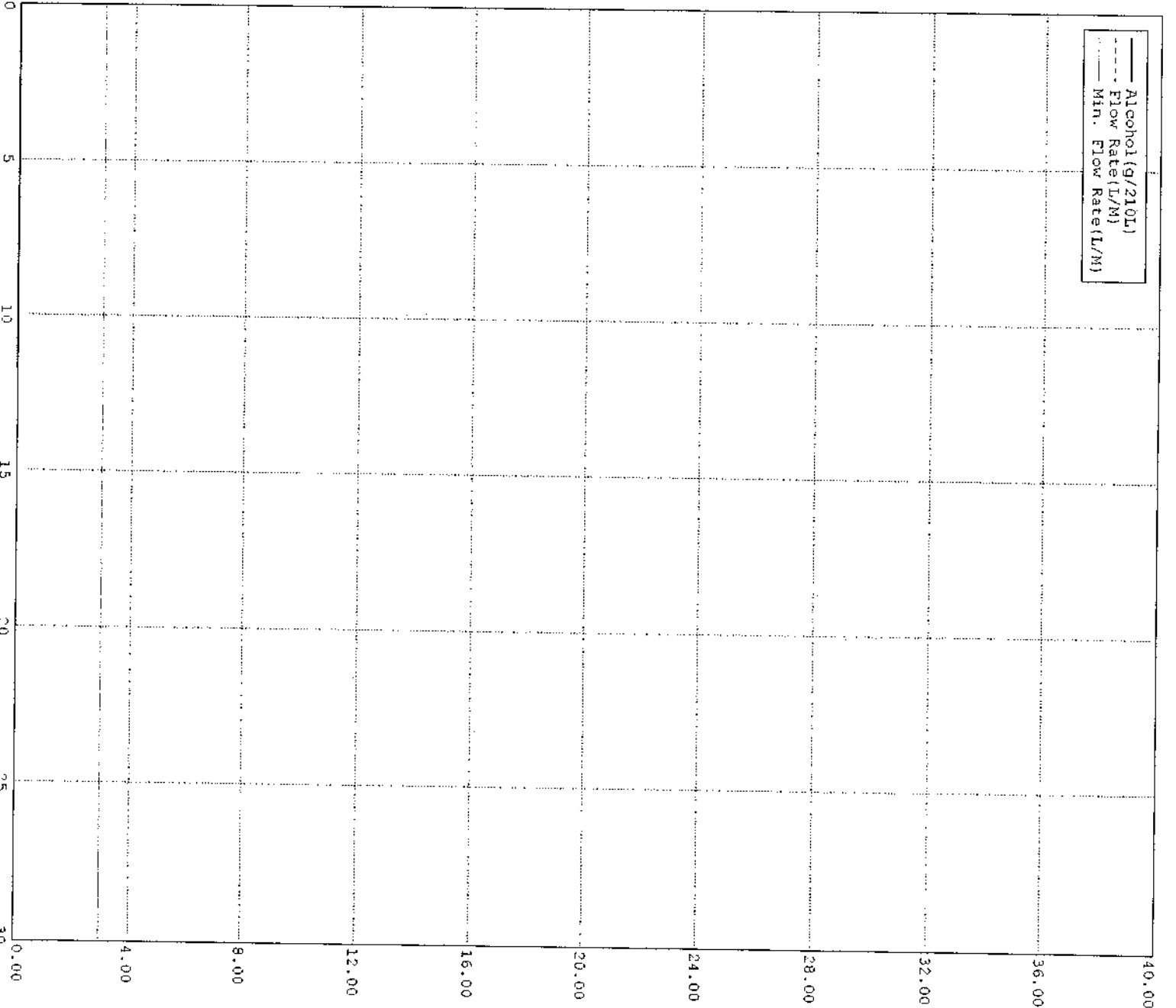
DEPT/AGENCY:
RFI
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.96: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK
BLANK TEST PASSED 09:25
INTERNAL STANDARD VERIFIED 09:25
EXTERNAL STANDARD 0.076 09:25
BLANK TEST 0.000 09:26

RFI DETECTED

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 08/25/2015
Time: 10:05:06

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.97: 0.080
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	10:06
BLANK TEST	0.000	10:06
INTERNAL STANDARD	VERIFIED	10:06
EXTERNAL STANDARD	0.076	10:06
BLANK TEST	0.000	10:07
SUBJECT SAMPLE (Vol=2.38L)	0.000	10:08
BLANK TEST	0.000	10:09
EXTERNAL STANDARD	0.077	10:09
BLANK TEST	0.000	10:10

BMB

