

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 100397 Analyst Brandi Barnett Start Date 8/10/16

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 03/05/17

ii. 0.040g/210L Mnf ILMO Lot 02915040A3 Exp 03/05/17

iii. 0.080g/210L Mnf Aircaps Lot AG6008504 Exp 03/25/18

iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 03/05/17

v. 0.200g/210L Mnf Guth Lot 15130 Exp 05/11/17

1. Simulator S/N DR6267 Date Calibrated 03/03/16

vi. 0.300g/210L Mnf Guth Lot 47715170 Exp 07/20/17

1. Simulator S/N DR476 Date Calibrated 03/03/16

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 15220 Level 0.100 Exp 09/28/17

1. Simulator S/N DR4162 Date Calibrated 03/02/16

ii. Isopropanol - Mnf Guth Lot 15220 Level 0.100 Exp 9/28/17

1. Simulator S/N DR4163 Date Calibrated 03/02/16

iii. Negative Control - Mnf Guth Lot 15220 Level 0.100 Exp 09/28/17

1. Simulator S/N SD1200 Date Calibrated 03/03/16

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 8/11/16

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/10/2016
Time: 10:06:47

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.72 V PASSED
(1.03 V - 2.41 V)
Cooler Voltage = 1.71 V PASSED
(1.04 V - 2.44 V)
Bias Voltage = 81 V PASSED
(49 V - 113 V)
Chopper Freq = 540 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.7 in

PUMP INFO

Flow Rate = 3.949 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 = 0.093 0.00% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100397

Date: 08/10/2016
Time: 10:12 AM

Temperatures (°C)
Sample Cell: 49.0°C
Breath Tube: 48.0°C

Current Barometer 29.7 in
Volume (Ltr) 1.51

Settings
Lamp: 1.72 V
Bias: 81 V
Cooler: 1.71 V
Chopper: 539 Hz

Voltages (V)
Flow: 1.06 V
Detector: 0.086 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 05/18/2011
Time: 13:35:39

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca = 0.1000
CAL = 0.983031 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0079 0.0010 <= b2 < 0.0100
b3 = 0.0004 0.0000 <= b3 < 0.0040
Xq = 0.0932 0.0500 <= Xq < 0.2000
a21 = 1.208582 1.050 <= a21 < 1.300
a31 = 0.521034 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100397

Date: 08/10/2016
Time: 10:15:56

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

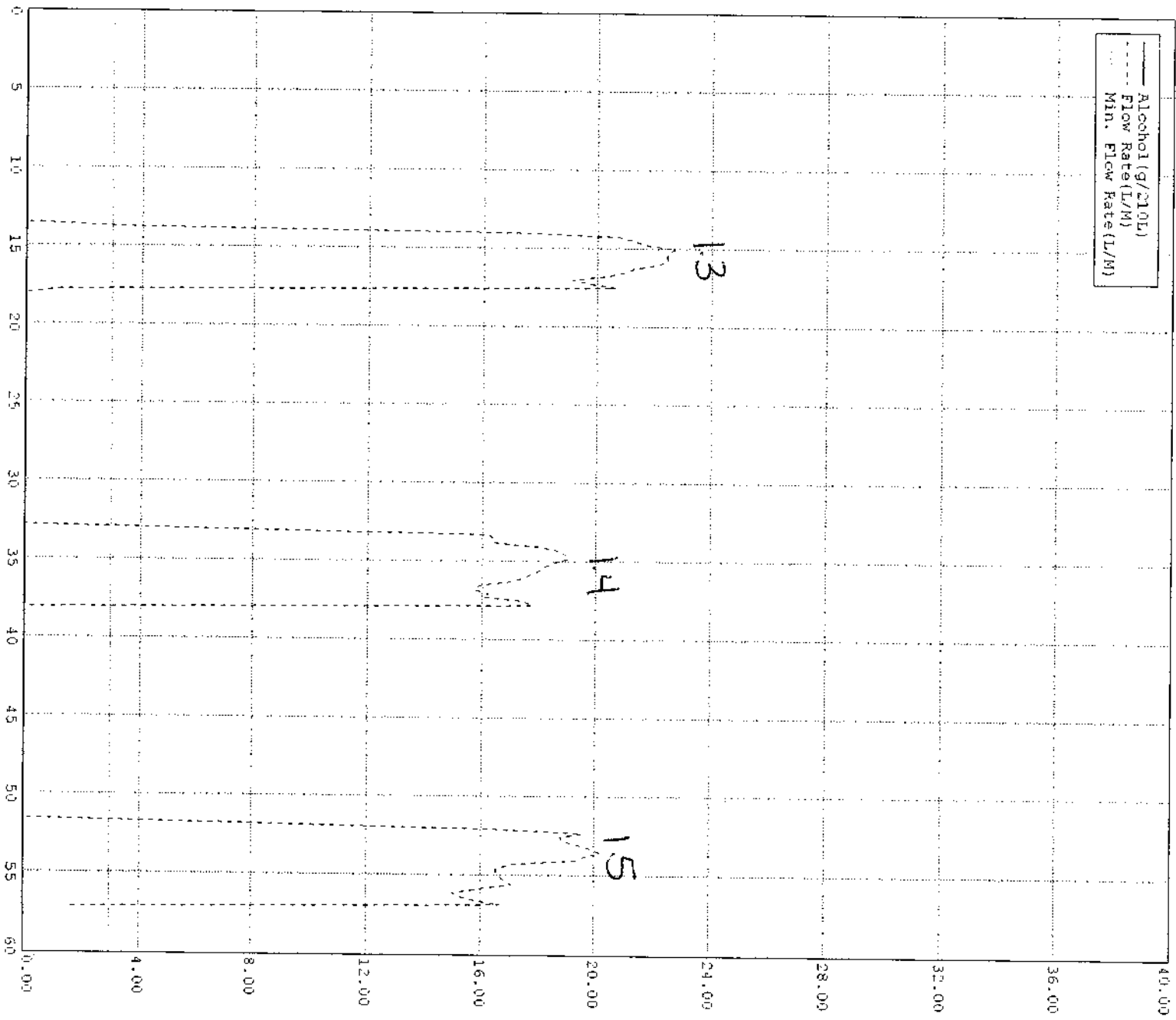
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	10:17
BLANK TEST	0.000	10:17
INTERNAL STANDARD	VERIFIED	10:17
EXTERNAL STANDARD	0.079	10:17
BLANK TEST	0.000	10:18
SUBJECT SAMPLE (Vol=1.51L)	0.000	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.079	10:20
BLANK TEST	0.000	10:21

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LINEARITY CHECK

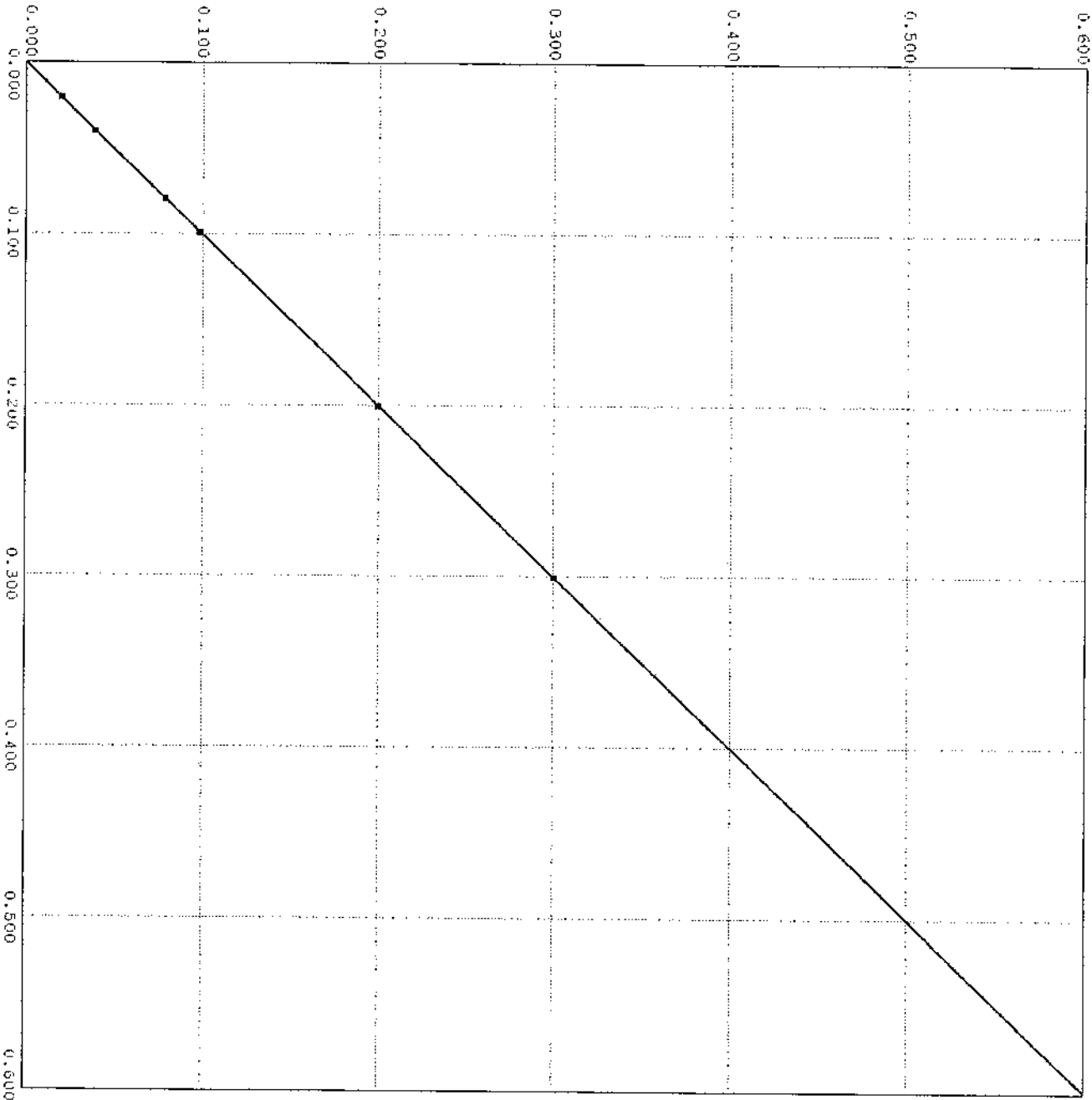
Alaska Department of Public Safety
DATAMASTER dnt: 100397

Date: 08/10/2016
Time: 12:52:29

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0208	0.0004
0.040	0.0400	0.0000
0.079	0.0796	0.0005
0.099	0.0990	0.0000
0.200	0.2004	0.0005
0.300	0.3012	0.0004

SLOPE = 1.002347
R² = 0.999986



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

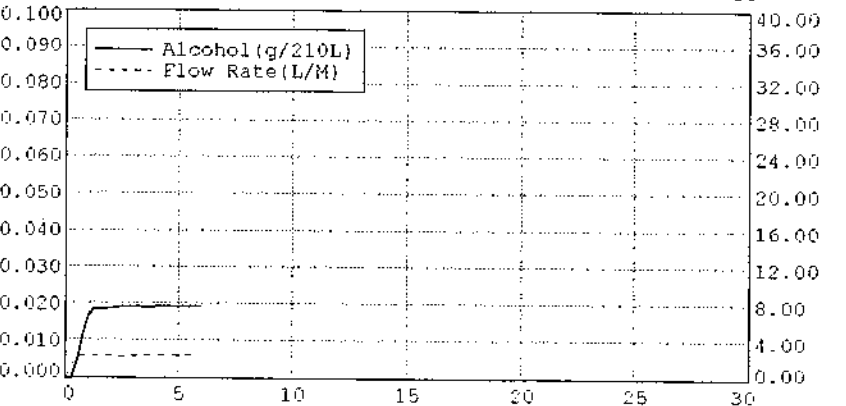
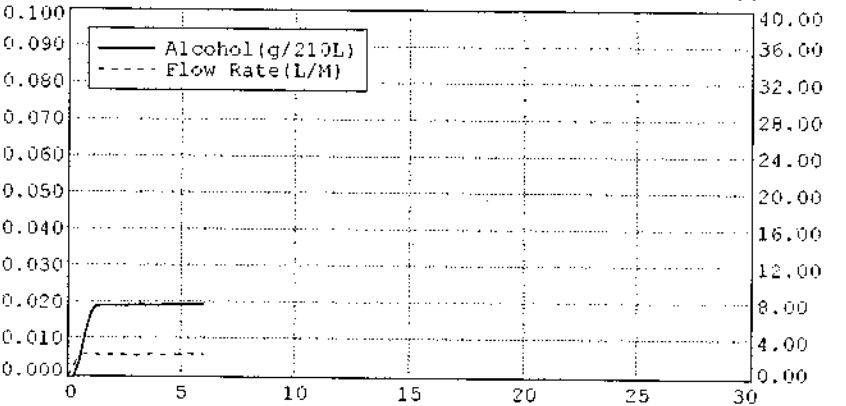
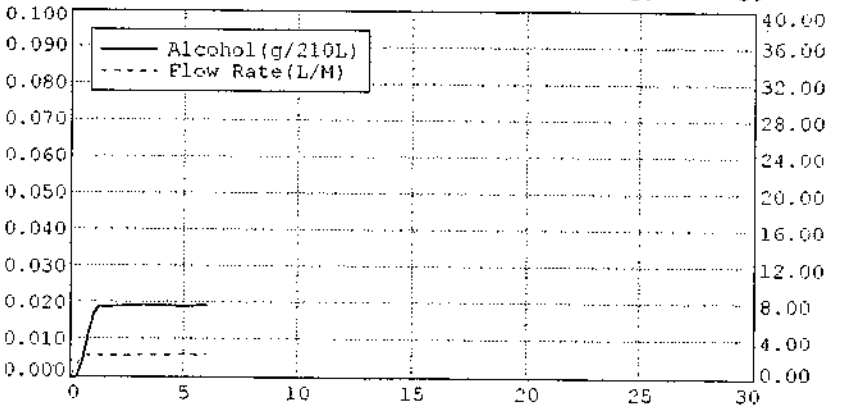
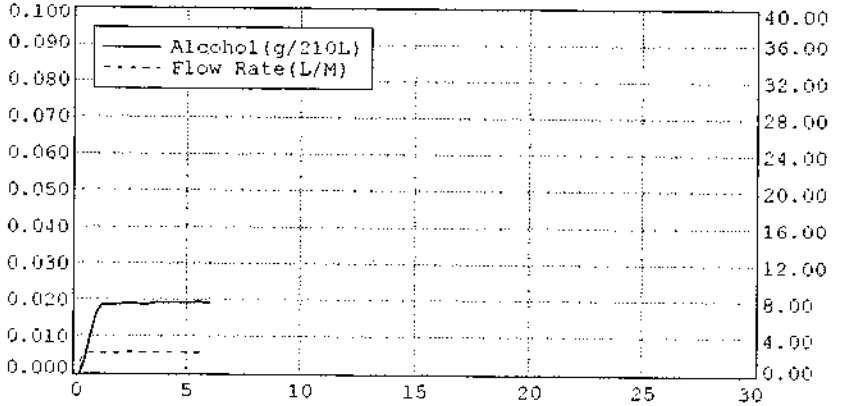
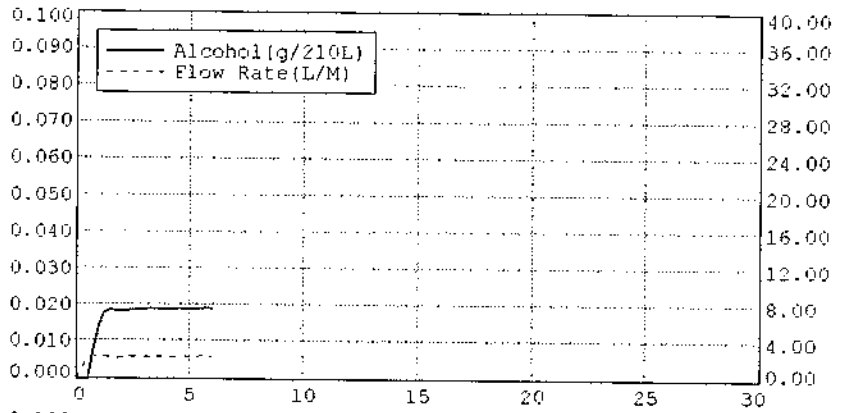
Date: 08/10/2016
 Time: 12:52:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.72: 0.020
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 730 psi

BLANK TEST	0.000	12:53
INTERNAL STANDARD	VERIFIED	12:53
EXTERNAL STANDARD	0.020	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.021	12:55
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.021	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.021	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.021	12:58
BLANK TEST	0.000	12:59

Average = 0.0208
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

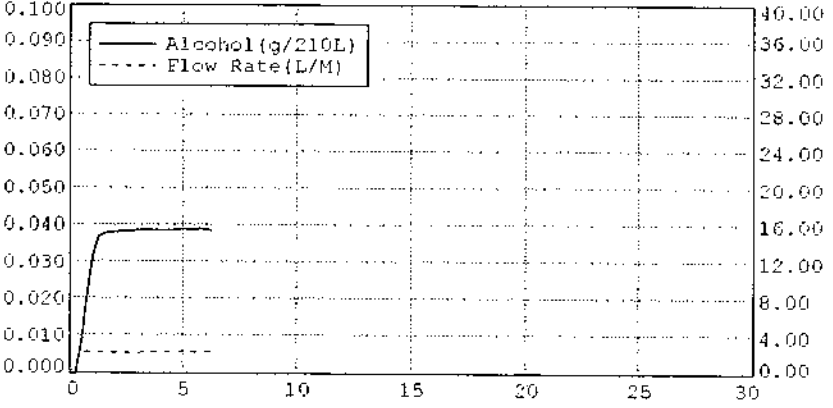
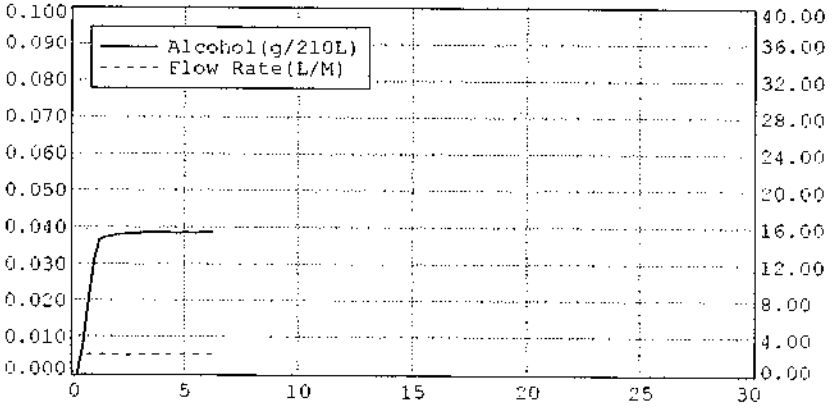
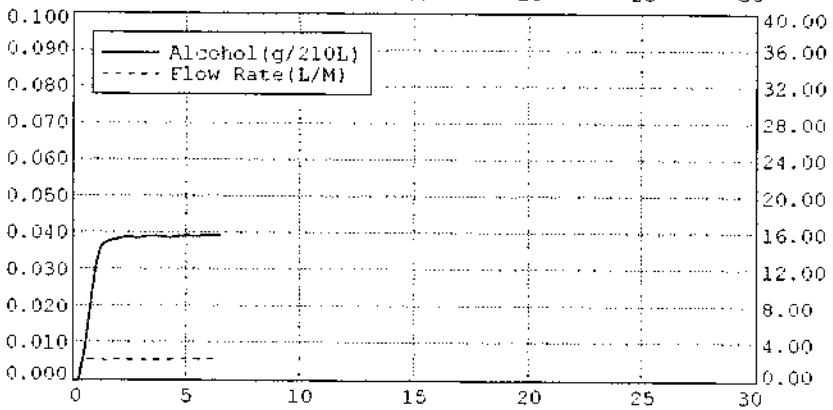
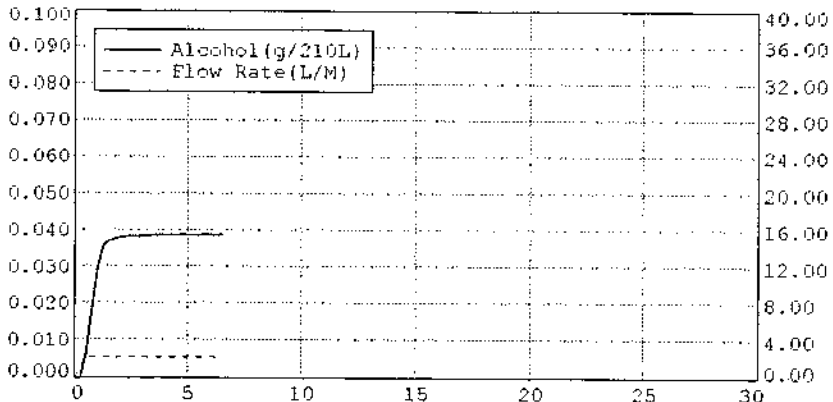
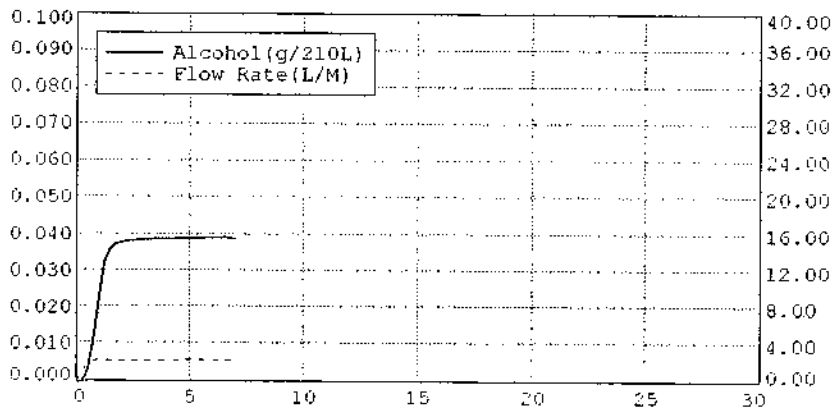
Date: 08/10/2016
 Time: 13:00:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.72: 0.040
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 208 psi

BLANK TEST	0.000	13:01
INTERNAL STANDARD	VERIFIED	13:01
EXTERNAL STANDARD	0.040	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.040	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.040	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.040	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.040	13:06
BLANK TEST	0.000	13:07

Average = 0.0400
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

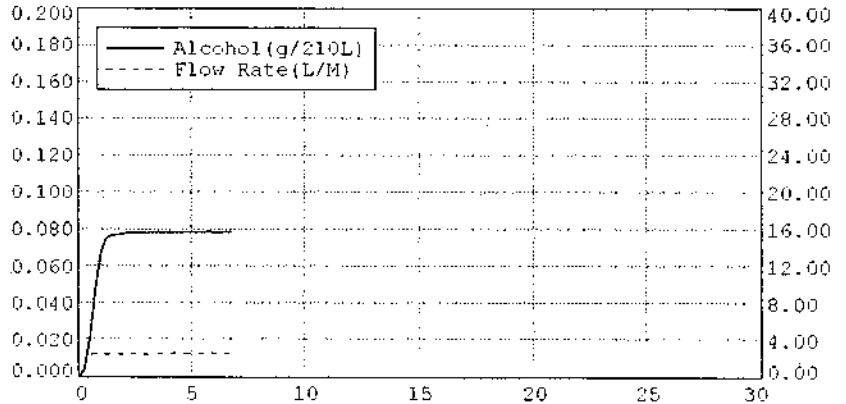
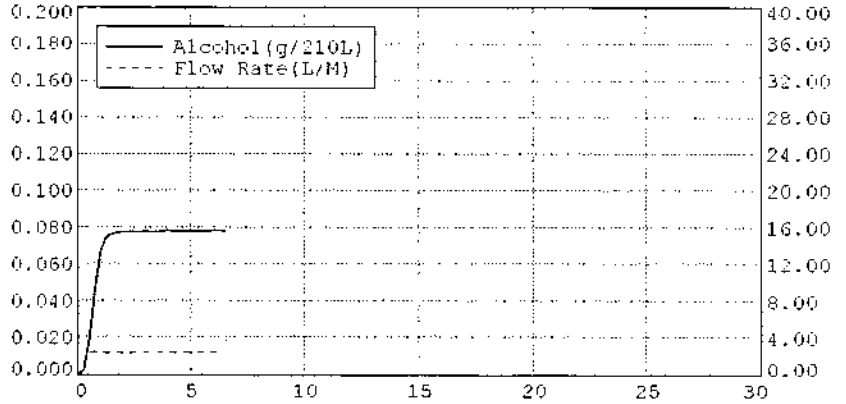
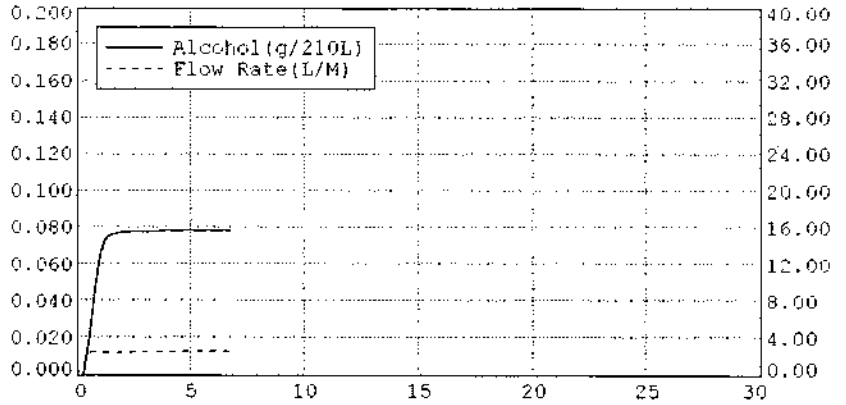
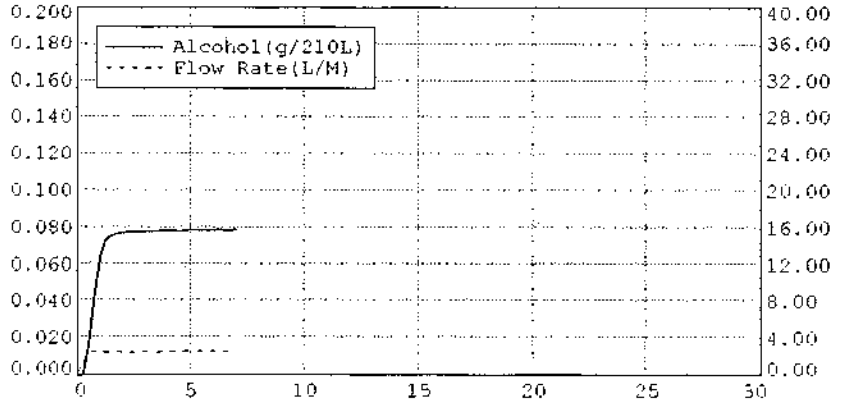
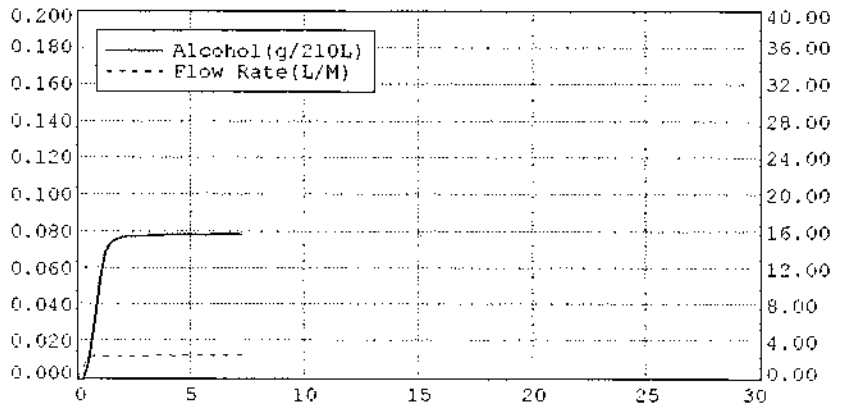
Date: 08/10/2016
 Time: 13:08:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.73: 0.079
 LOT #: AG608504
 EXPIRATION: 03/25/2018
 TANK PRESSURE: 1052 psi

BLANK TEST	0.000	13:09
INTERNAL STANDARD	VERIFIED	13:09
EXTERNAL STANDARD	0.080	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.080	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.079	13:12
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.079	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.080	13:14
BLANK TEST	0.000	13:15

Average = 0.0796
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

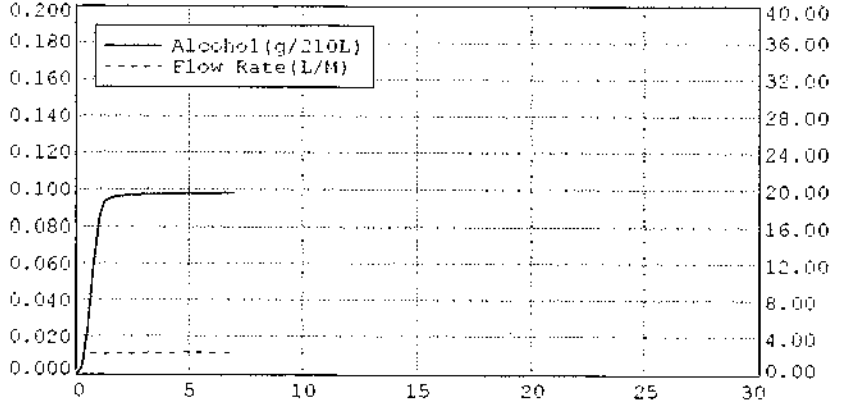
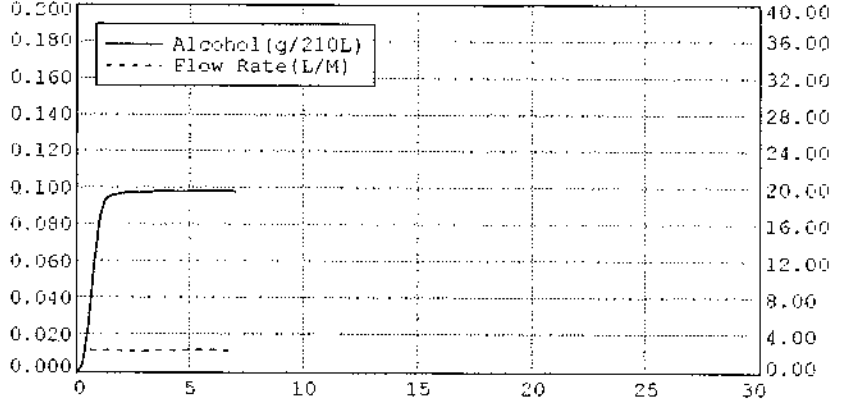
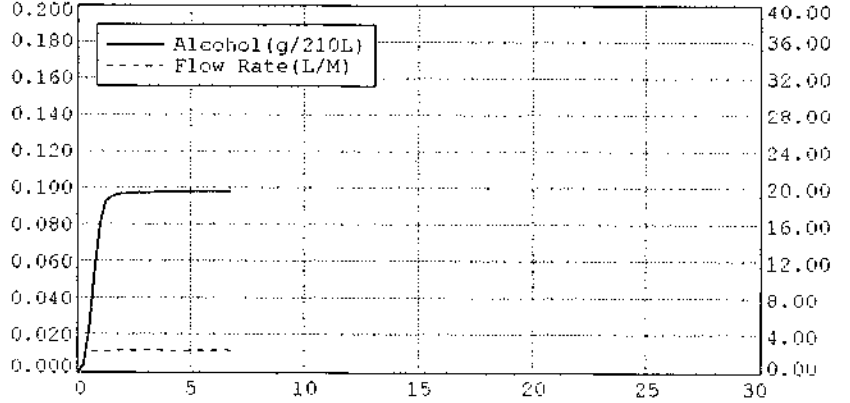
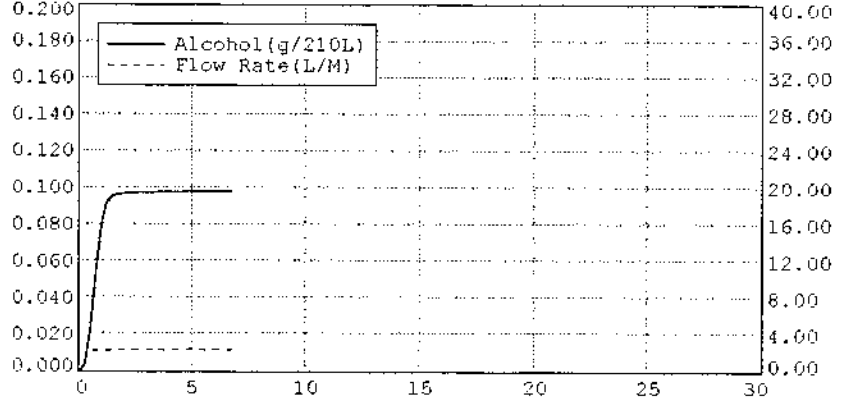
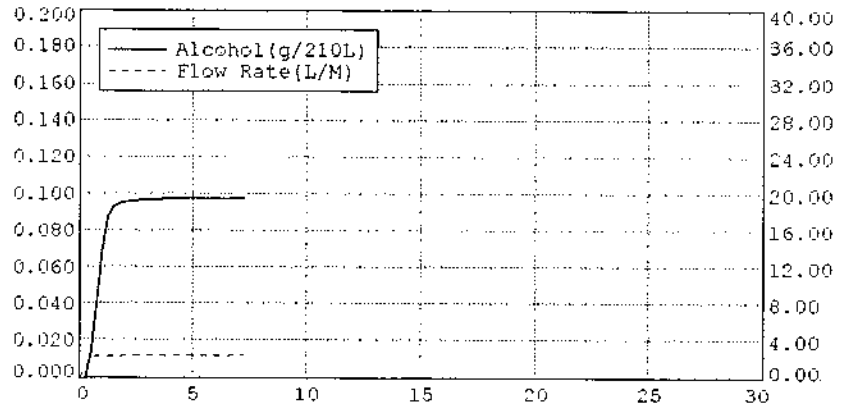
Alaska Department of Public Safety
 DATAMASTER dmt: 100397

Date: 08/10/2016
 Time: 13:18:04

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 29.73: 0.099
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 456 psi

BLANK TEST	0.000	13:19
INTERNAL STANDARD	VERIFIED	13:19
EXTERNAL STANDARD	0.099	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.099	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.099	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.099	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.099	13:23
BLANK TEST	0.000	13:24

Average = 0.0990
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

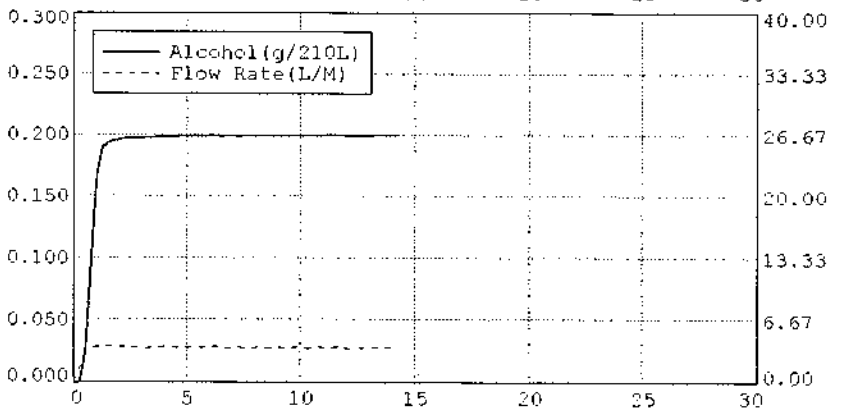
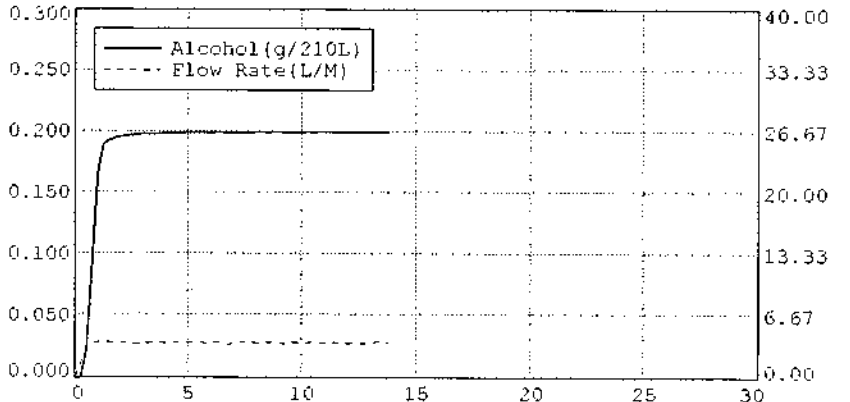
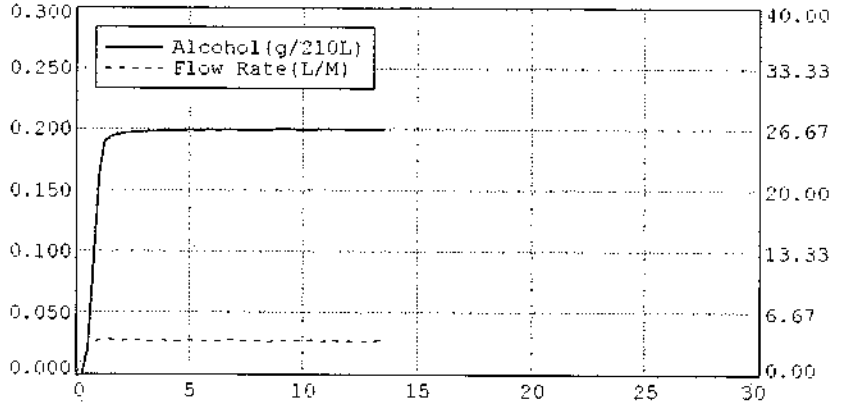
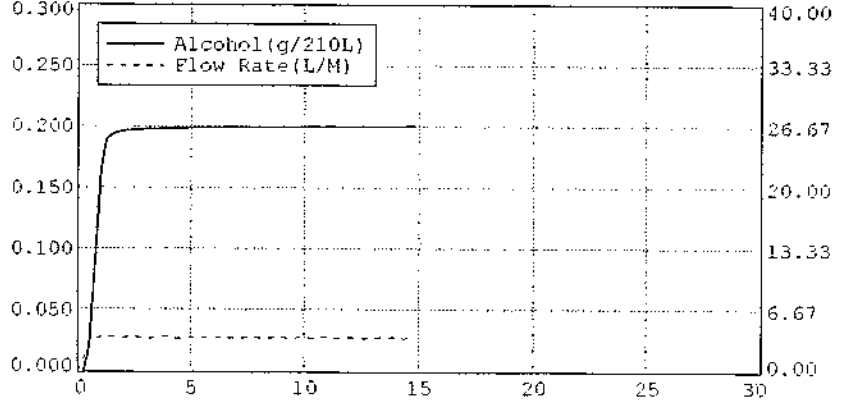
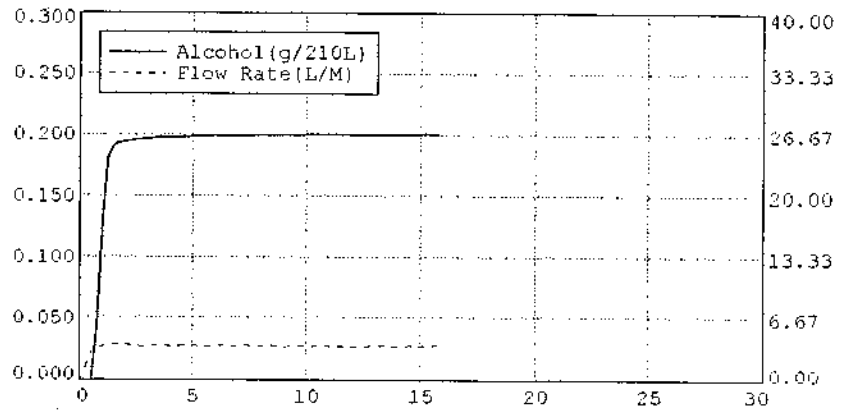
Date: 08/10/2016
 Time: 13:28:28

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:29
INTERNAL STANDARD	VERIFIED	13:29
EXTERNAL STANDARD	0.201	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.200	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.201	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.200	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.200	13:35
BLANK TEST	0.000	13:36

Average = 0.2004
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100397

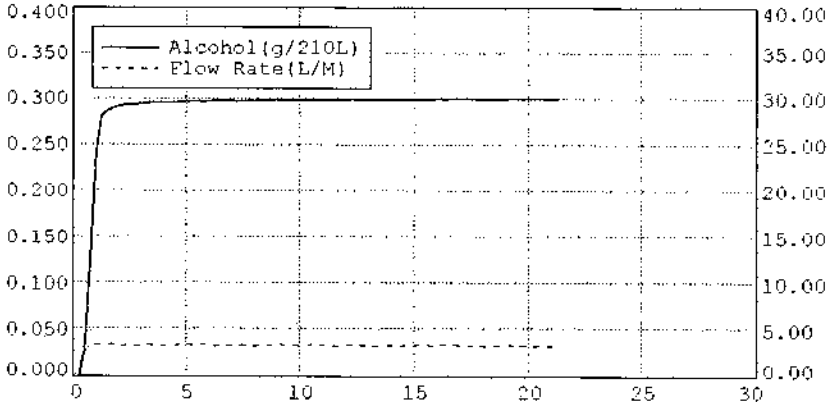
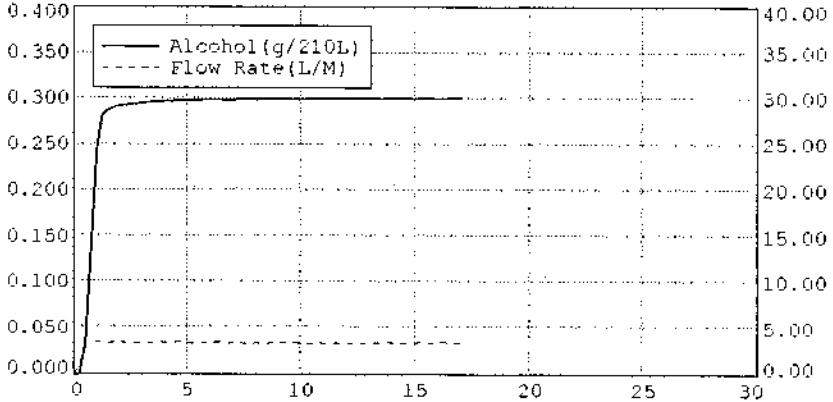
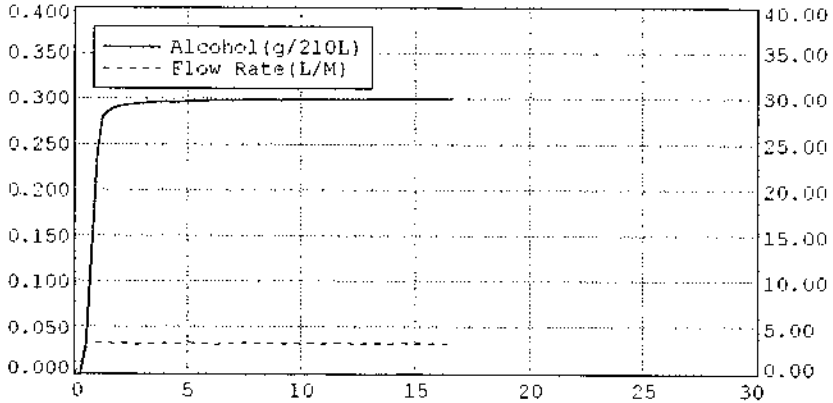
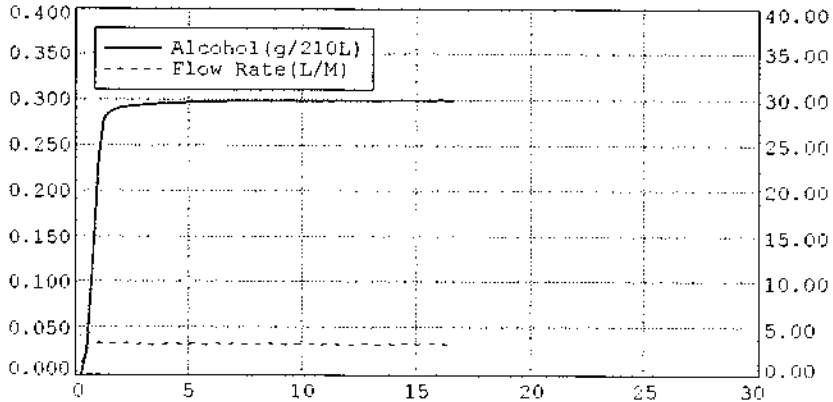
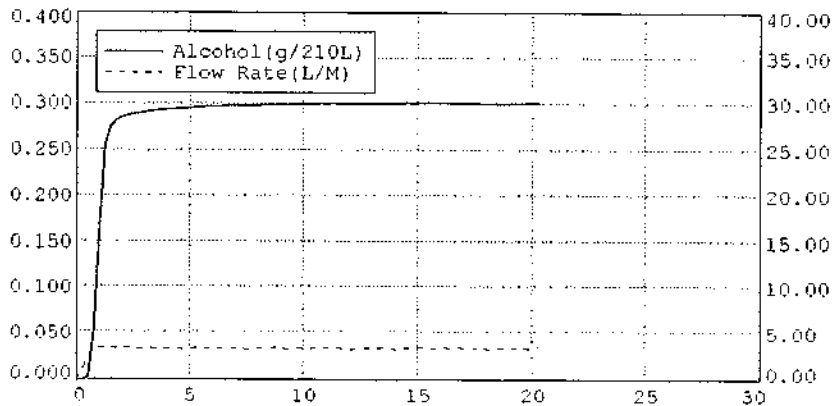
Date: 08/10/2016
 Time: 13:42:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 15170
 EXPIRATION: 07/20/2017

BLANK TEST	0.000	13:43
INTERNAL STANDARD	VERIFIED	13:43
EXTERNAL STANDARD	0.302	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.301	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.301	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.301	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.301	13:49
BLANK TEST	0.000	13:50

Average = 0.3012
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100397

Date: 08/11/2016
Time: 09:06:35

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

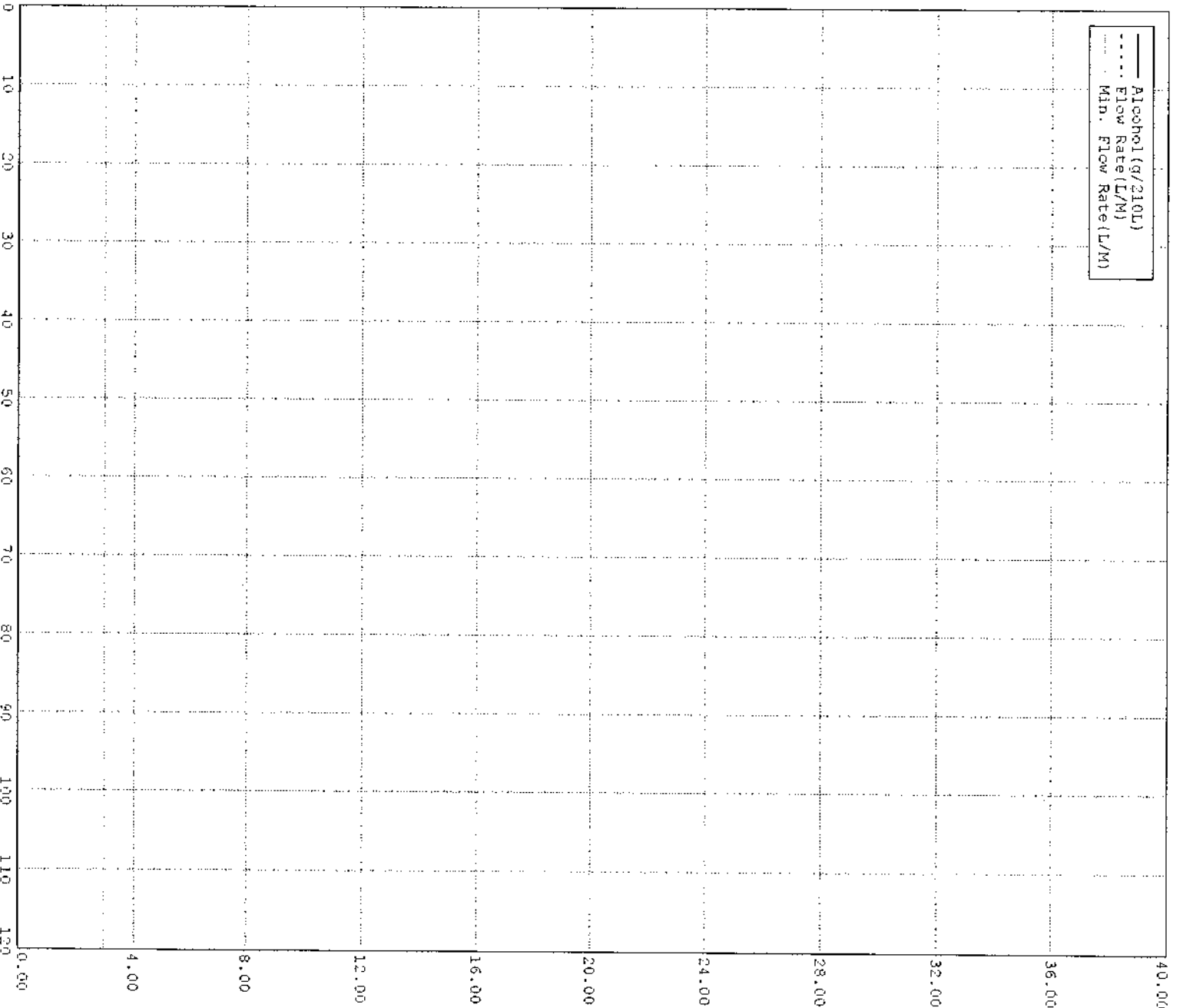
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.73: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	09:17
BLANK TEST	0.000	09:17
INTERNAL STANDARD	VERIFIED	09:18
EXTERNAL STANDARD	0.080	09:18
BLANK TEST	0.000	09:19
SUBJECT SAMPLE	INCOMPLETE	09:21

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/11/2016
Time: 09:39:08

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

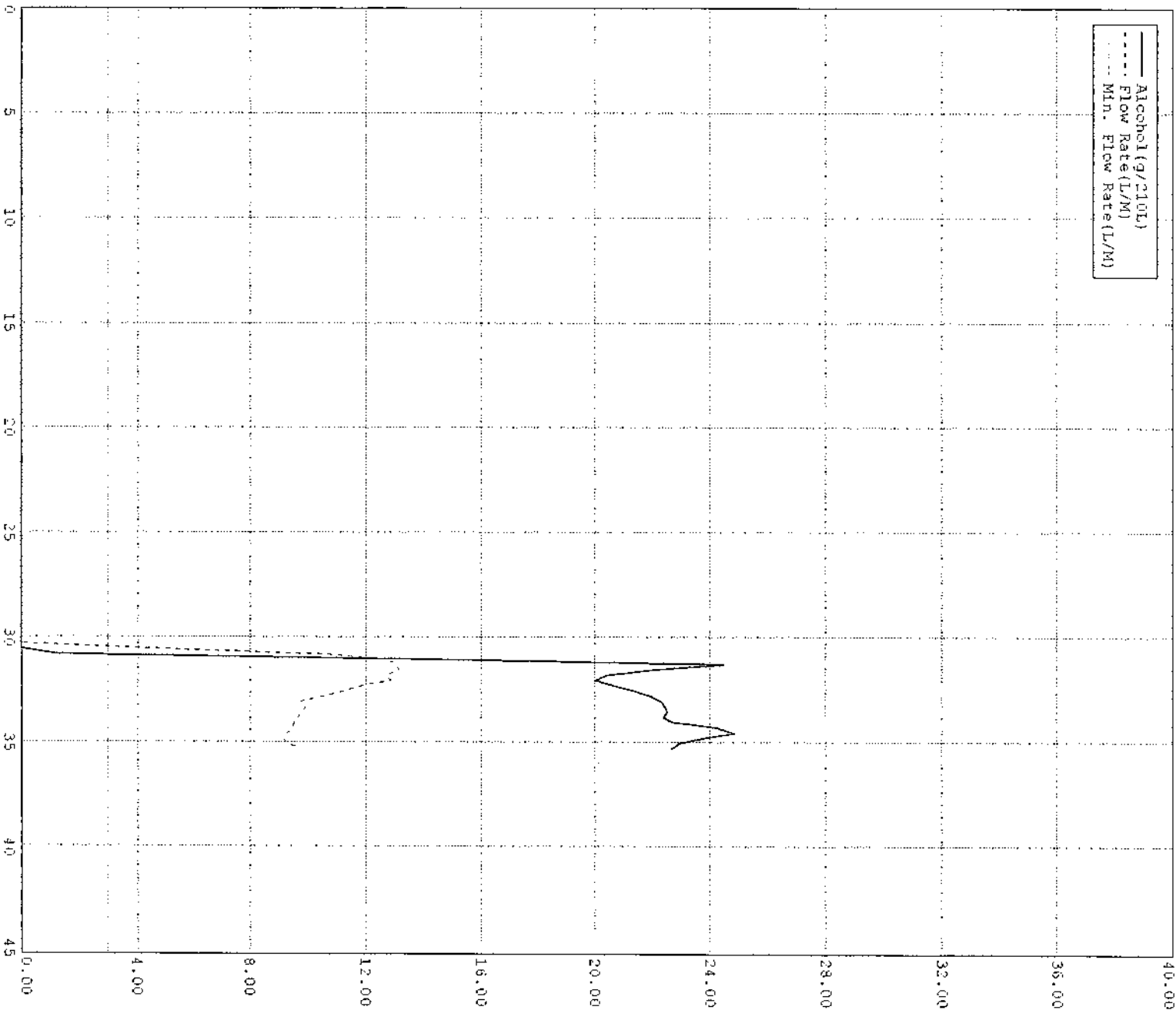
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK
BLANK TEST PASSED 10:00
INTERNAL STANDARD VERIFIED 10:00
EXTERNAL STANDARD 0.080 10:00
BLANK TEST 0.000 10:01
SUBJECT SAMPLE INVALID 10:02

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/11/2016
Time: 10:43:38

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

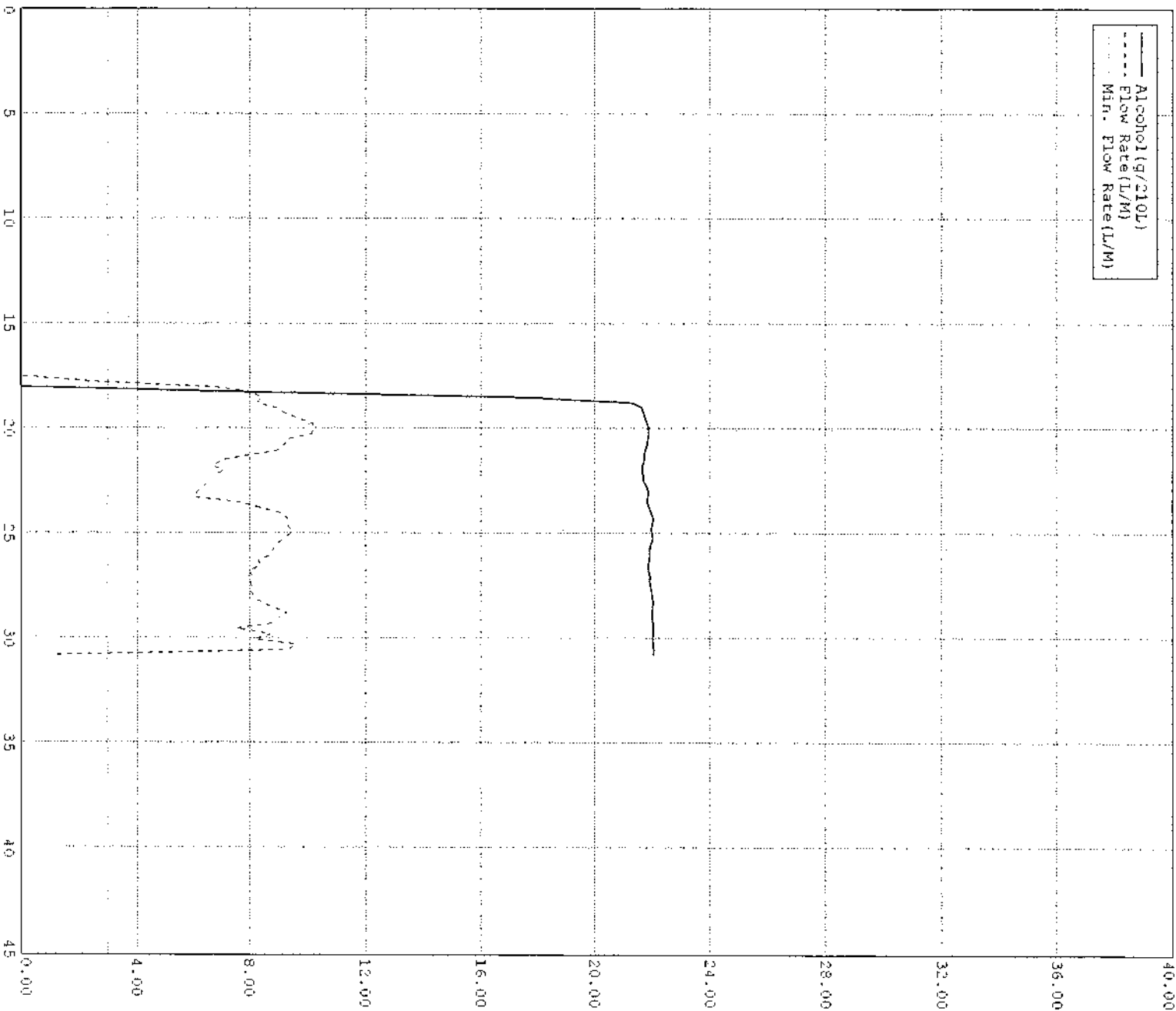
DEPT/AGENCY:
INTERFERENCE ACETONE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 10:44
BLANK TEST 0.000 10:44
INTERNAL STANDARD VERIFIED 10:44
Xg = 0.094 (0.84%)
EXTERNAL STANDARD 0.080 10:45
X[1] = 0.0797 (-0.0015) (0.0019)
BLANK TEST 0.000 10:46
SUBJECT SAMPLE XXX 10:46
X[1] = 0.1112 (-0.0155) (0.0014)

Interference Detected

BNB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/11/2016
Time: 10:37:14

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

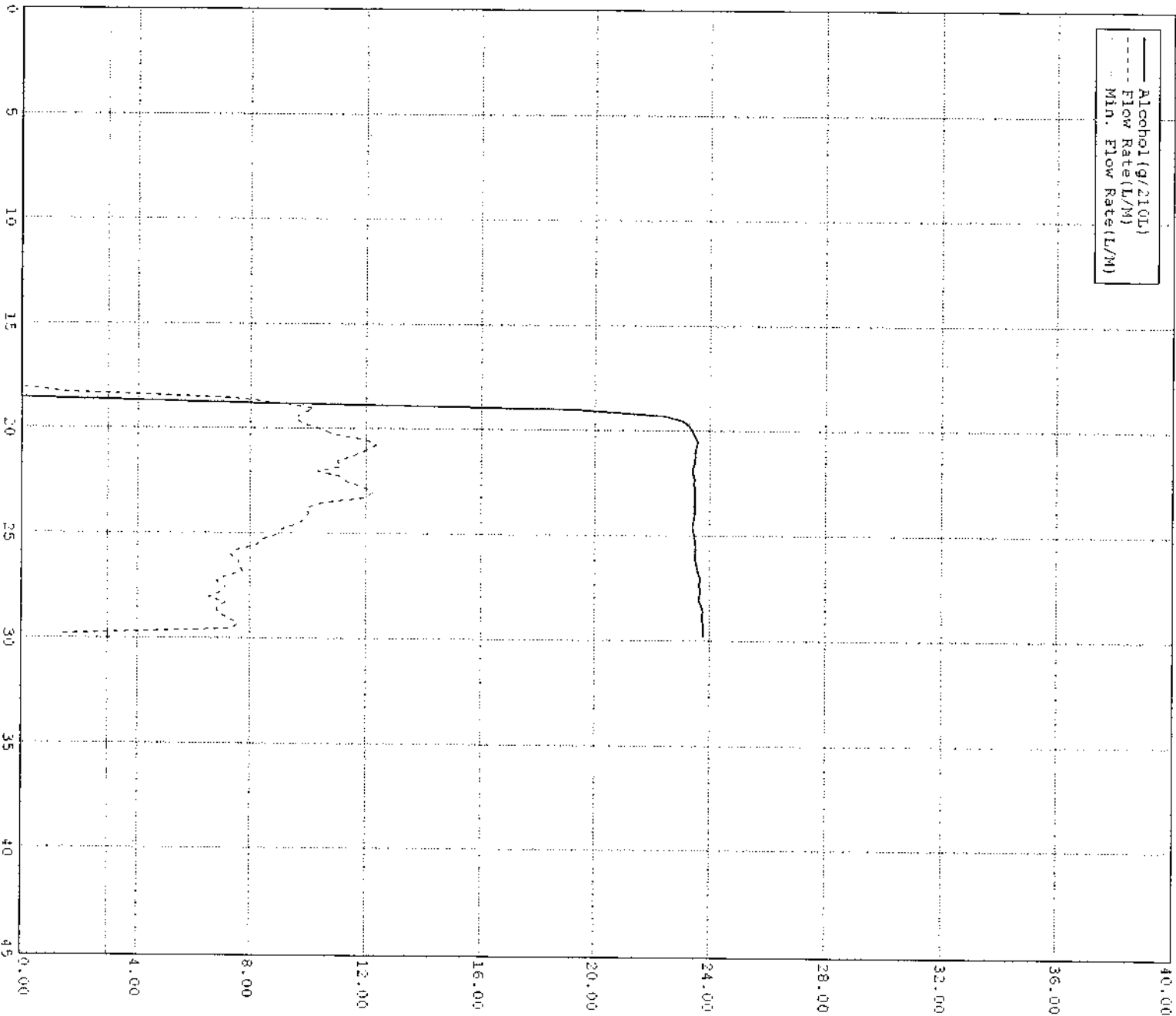
DEPT/AGENCY:
INTERFERENCE ISOPROPYL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK
BLANK TEST PASSED 10:38
INTERNAL STANDARD 0.000 10:38
INTERNAL STANDARD VERIFIED 10:38
Xq = 0.094 (0.848) 0.080 10:39
EXTERNAL STANDARD X[1] = 0.0801 (-0.0012) (0.0024)
BLANK TEST 0.000 10:39
SUBJECT SAMPLE XXX 10:40
X[1] = 0.1195 (-0.0278) (0.0015)

Interference Detected

BBMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/11/2016
Time: 10:49:52

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

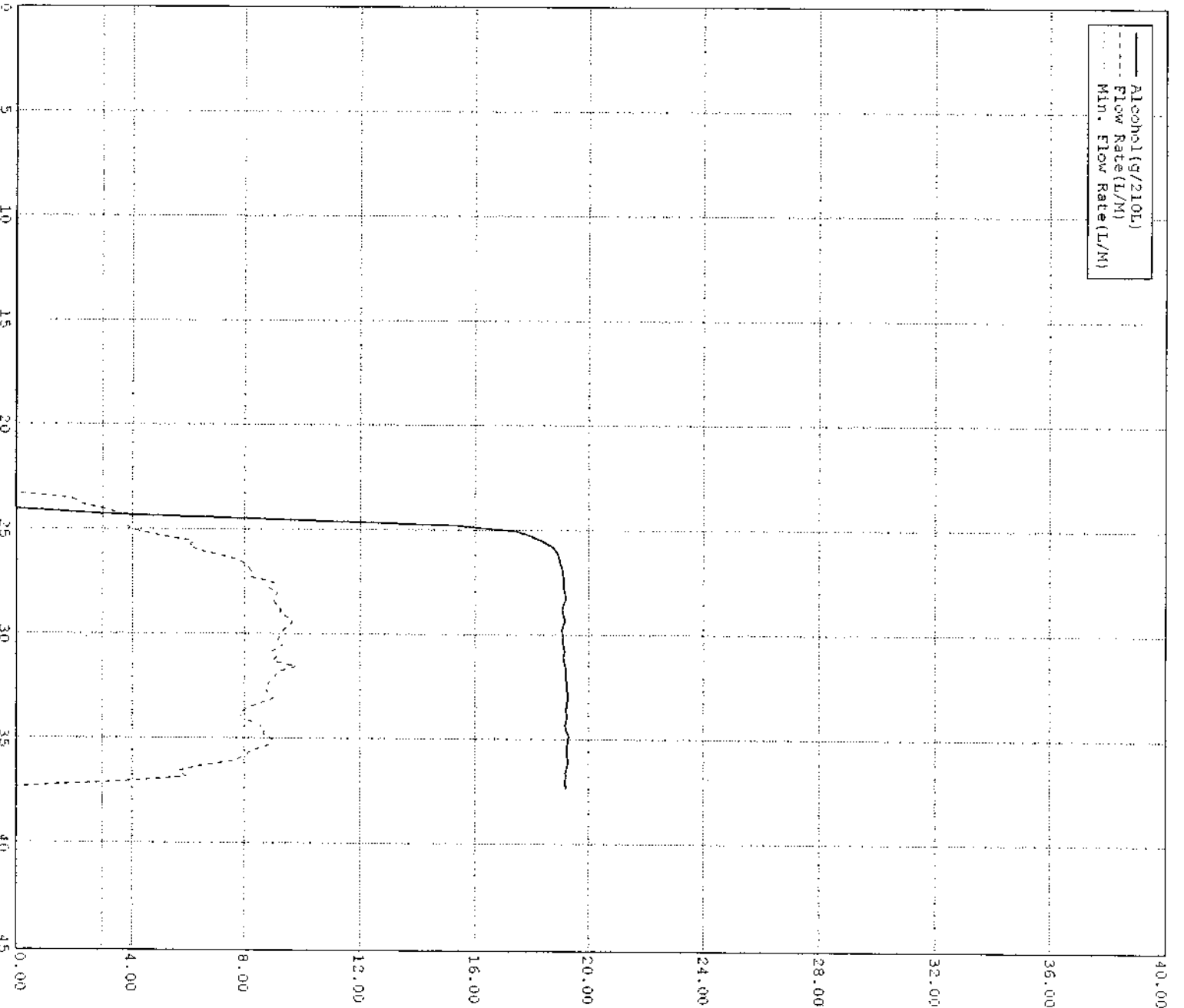
DEPT/AGENCY:
INTERFERENCE NEGATIVE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	10:51
BLANK TEST	0.000	10:51
INTERNAL STANDARD	VERIFIED	10:52
Xq = 0.094 (1.138)		
EXTERNAL STANDARD	0.080	10:52
X[1] = 0.0800 (-0.0016)	(0.0019)	
BLANK TEST	0.000	10:53
SUBJECT SAMPLE (Vol=1.73L)	0.096	10:53
X[1] = 0.0967 (0.0009)	(0.0012)	
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.079	10:55
X[1] = 0.0791 (-0.0008)	(0.0022)	
BLANK TEST	0.000	10:55

Filter 2 Avg: -0.0013
Filter 3 Avg: 0.0021

BMB 8/12/16



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/11/2016
Time: 10:11:03

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

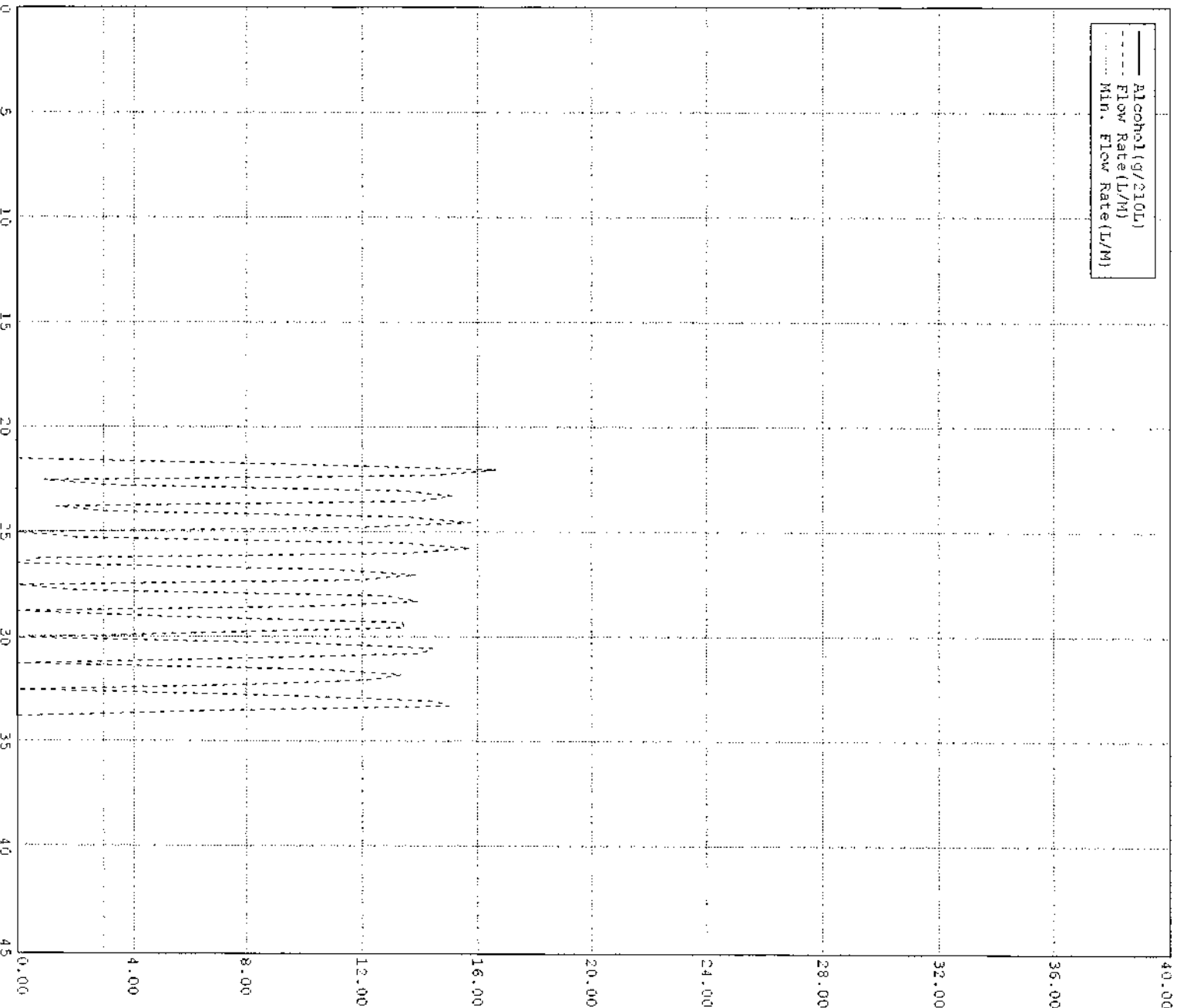
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	10:12
BLANK TEST	0.000	10:12
INTERNAL STANDARD	VERIFIED	10:12
EXTERNAL STANDARD	0.080	10:13
BLANK TEST	0.000	10:14
SUBJECT SAMPLE	XXX	10:14

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100397

Date: 08/11/2016
Time: 10:17:53

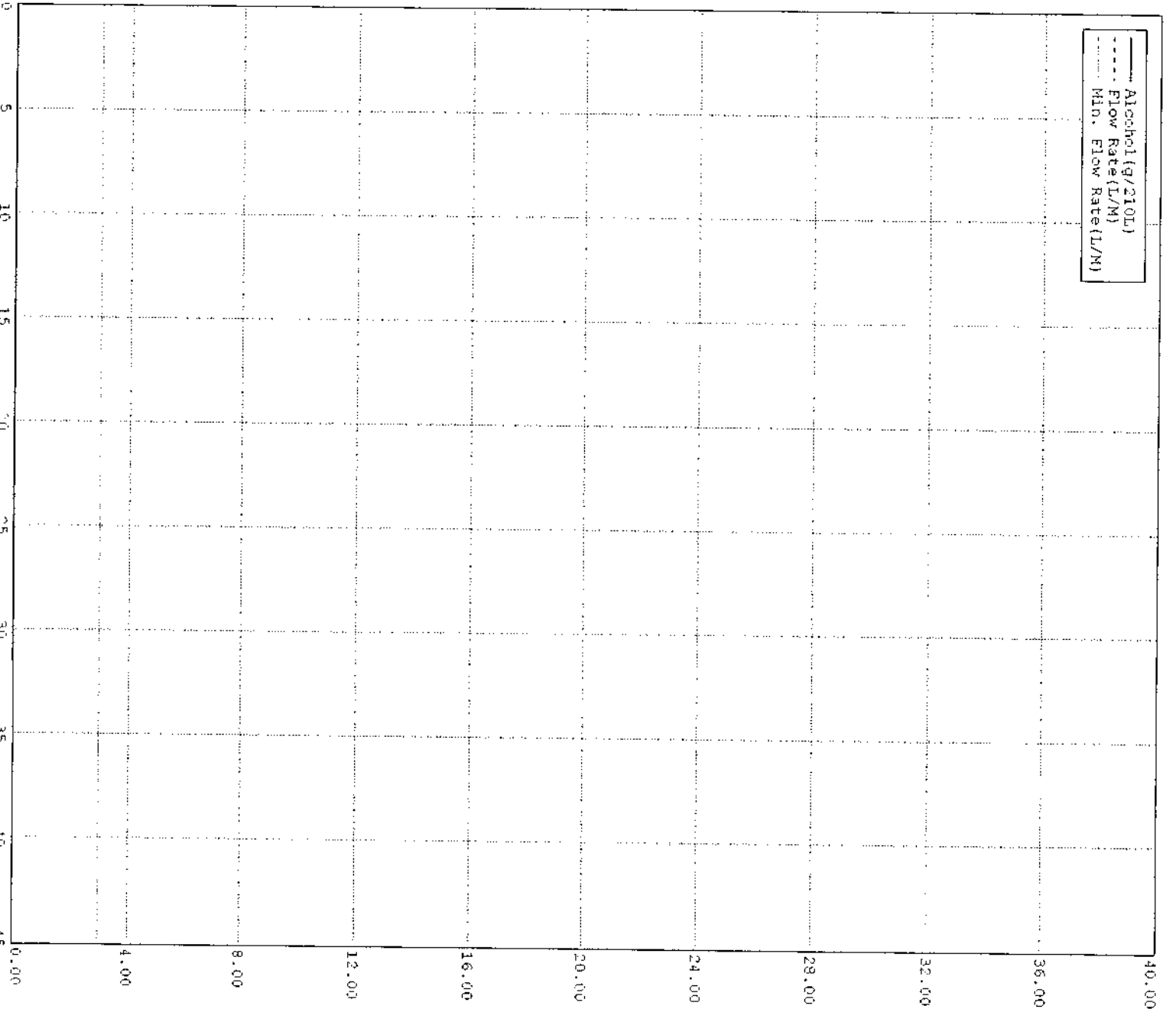
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK
BLANK TEST PASSED 10:19
INTERNAL STANDARD VERIFIED 10:19
EXTERNAL STANDARD 0.080 10:19
BLANK TEST 0.000 10:20
RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100397

Date: 08/11/2016
Time: 13:29:33

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 29.71: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	13:31
BLANK TEST	0.000	13:31
INTERNAL STANDARD	VERIFIED	13:31
EXTERNAL STANDARD	0.079	13:31
BLANK TEST	0.000	13:32
SUBJECT SAMPLE (Vol=1.84L)	0.000	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.080	13:34
BLANK TEST	0.000	13:34

BMB

