

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 100373 Analyst Brand Barnett Start Date 2/28/17

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 1.6 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 Airgas Lot AG608504 Exp 3/25/18

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

v. 0.200g/210L Mnf Guth Lot 15130 Exp 5/11/17

1. Simulator S/N DR5298 Date Calibrated 9/14/16 ^{BWP}

vi. 0.300g/210L Mnf Guth Lot 16210 Exp 8/22/18

1. Simulator S/N SD1177 Date Calibrated 9/13/16

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 15220 Level 0.100 Exp 9/28/17

1. Simulator S/N SD1199 Date Calibrated 9/13/16

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

1. Simulator S/N SD1088 Date Calibrated 9/13/16

iii. Negative Control - Mnf Guth Lot 15220 Level 0.100 Exp 9/28/17

1. Simulator S/N DR4161 Date Calibrated 9/14/16

e. RFI

6. Verify stylus is calibrated

9. Verification of Calibration

7. Reset Options

10. Non-Drinking Subject Test (attached)

8. Clear Memory

11. Upload

13. Remove tank prior to shut down

End Date 3-1-17

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 02/28/2017
Time: 10:12:41

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.71 V PASSED
(1.03 V - 2.39 V)
Cooler Voltage = 1.66 V PASSED
(0.97 V - 2.25 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 539 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.5 in

PUMP INFO

Flow Rate = 4.699 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 1.92% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100373

Date: 02/28/2017
Time: 12:23 PM

Temperatures (°C)

Sample Cell: 49.0°C
Breath Tube: 48.0°C

Current Barometer 29.5 in
Volume (Ltr) 1.42

Settings

Lamp: 1.71 V
Bias: 79 V
Cooler: 1.71 V
Chopper: 540 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.085 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 04/12/2011
Time: 16:20:23

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2012

Ca = 0.1000
CAL = 0.963237 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0051 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0814 0.0500 <= Xq < 0.2000
a21 = 1.168708 1.050 <= a21 < 1.300
a31 = 0.507741 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 02/28/2017
Time: 12:24:32

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

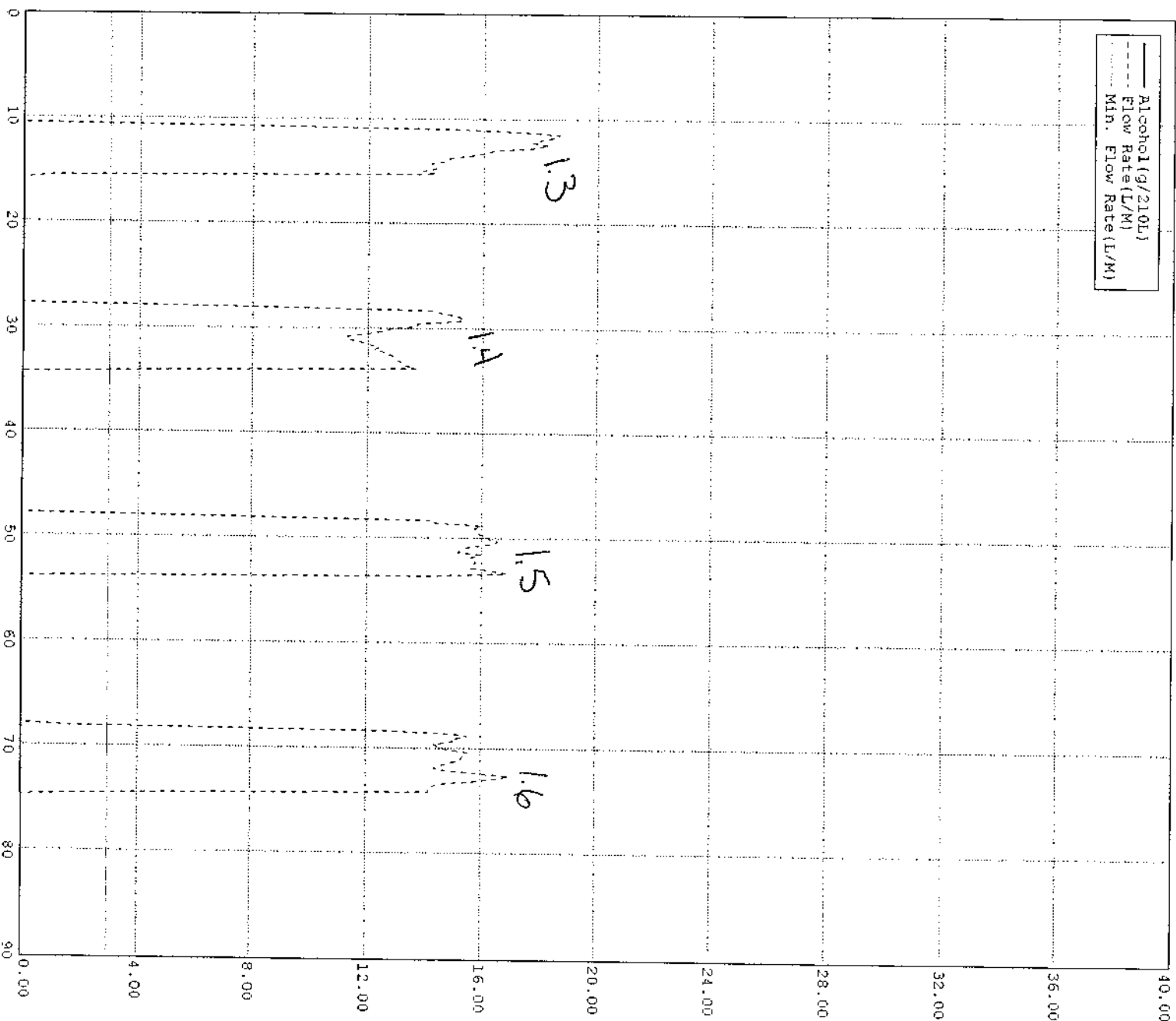
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.51: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	12:26
BLANK TEST	0.000	12:26
INTERNAL STANDARD	VERIFIED	12:26
EXTERNAL STANDARD	0.079	12:26
BLANK TEST	0.000	12:27
SUBJECT SAMPLE (Vol=1.52L)	0.000	12:29
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.078	12:30
BLANK TEST	0.000	12:31

BMB



LINEARITY CHECK

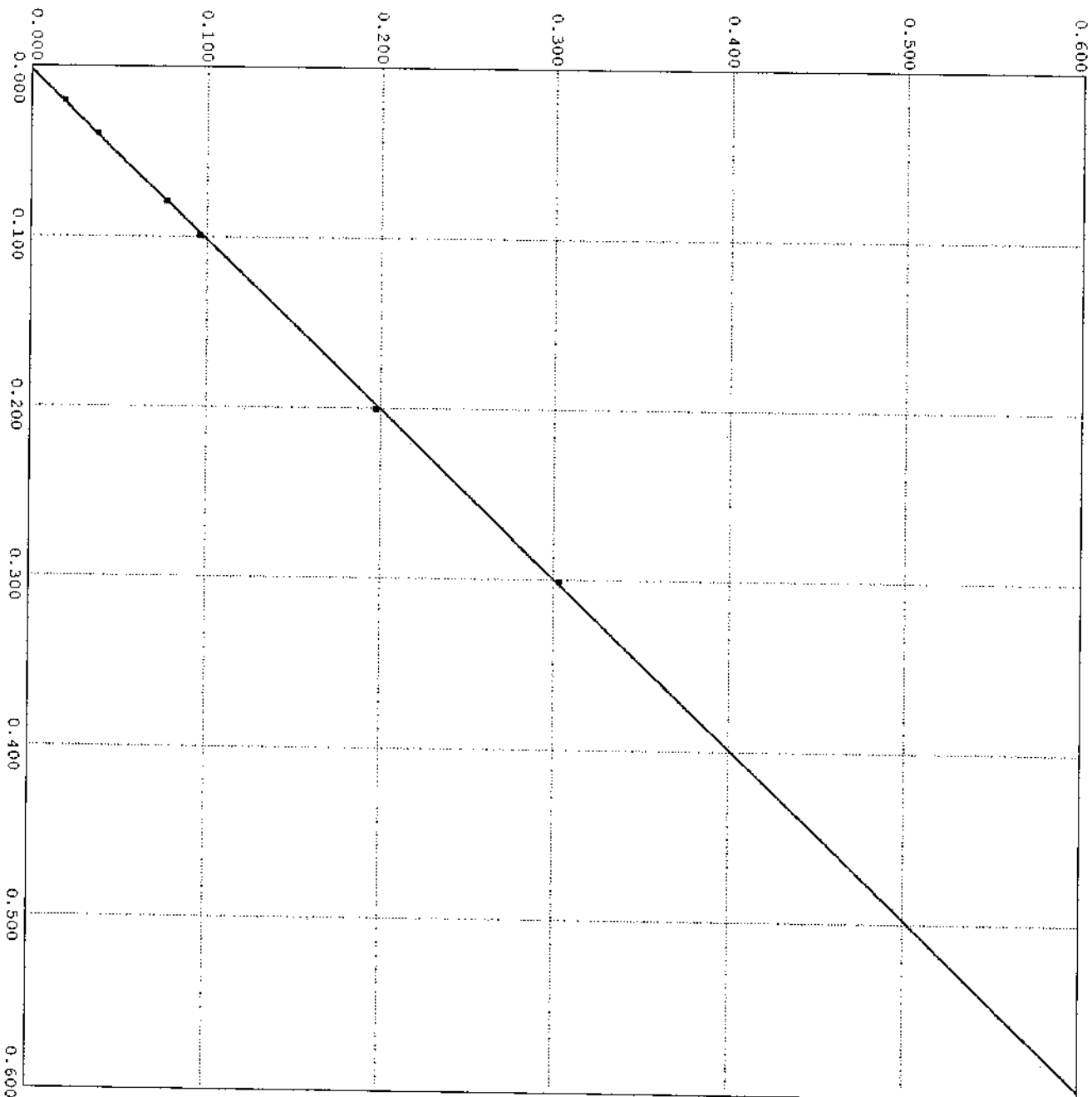
Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 02/28/2017
Time: 12:57:01

SUPERVISOR NAME:
BRANDI BARNEETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0390	0.0000
0.079	0.0782	0.0004
0.099	0.0970	0.0000
0.200	0.1982	0.0004
0.300	0.3038	0.0004

SLOPE = 1.010744
R² = 0.999734



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100373

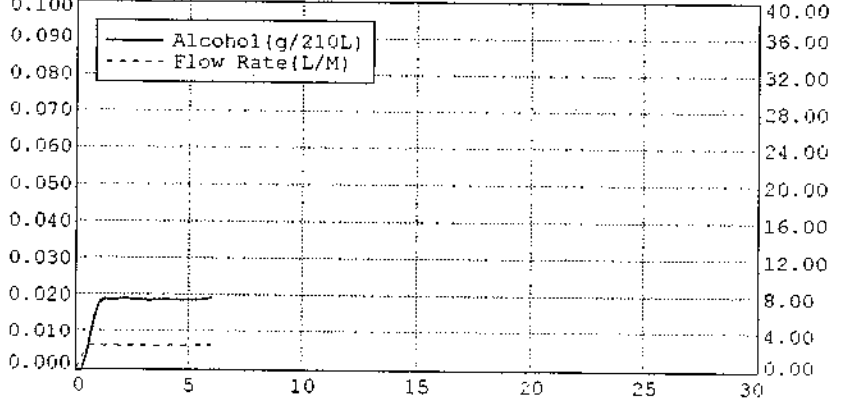
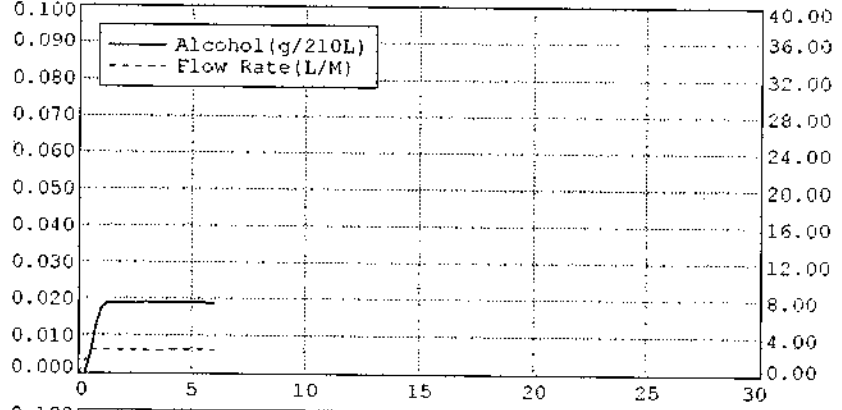
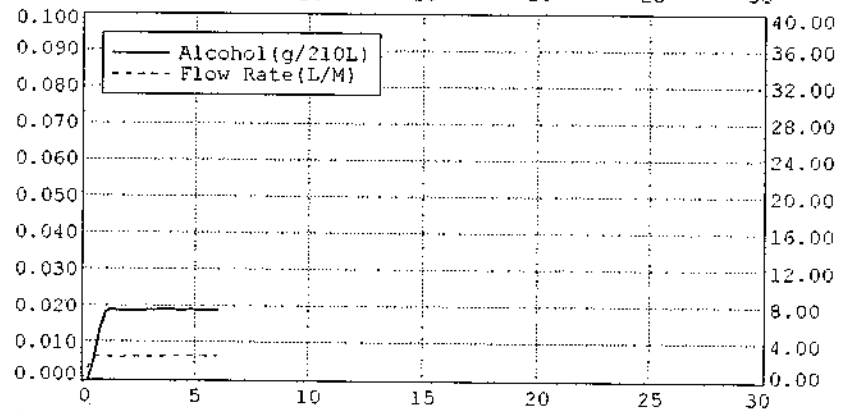
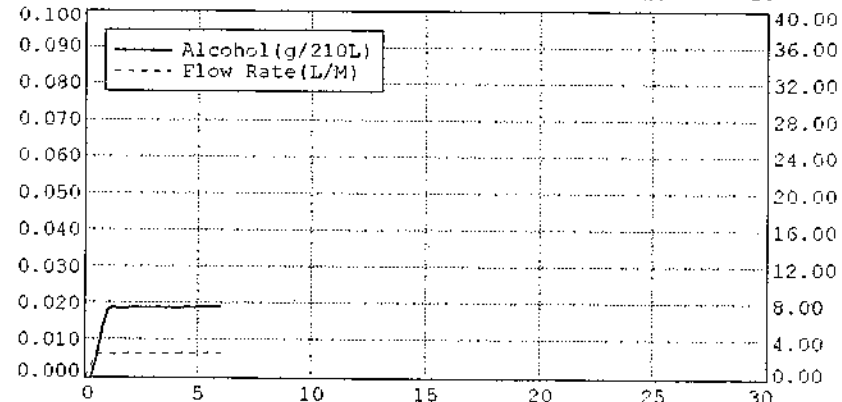
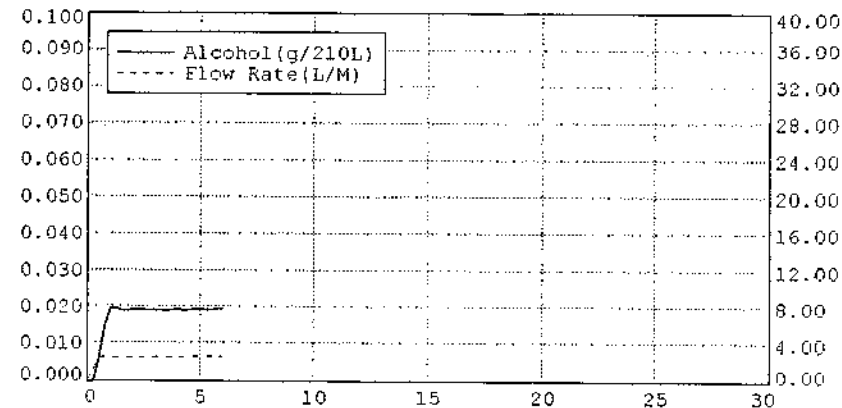
Date: 02/28/2017
 Time: 12:57:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.52: 0.020
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 1016 psi

BLANK TEST	0.000	12:58
INTERNAL STANDARD	VERIFIED	12:58
EXTERNAL STANDARD	0.020	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.020	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.020	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.020	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.020	13:02
BLANK TEST	0.000	13:03

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100373

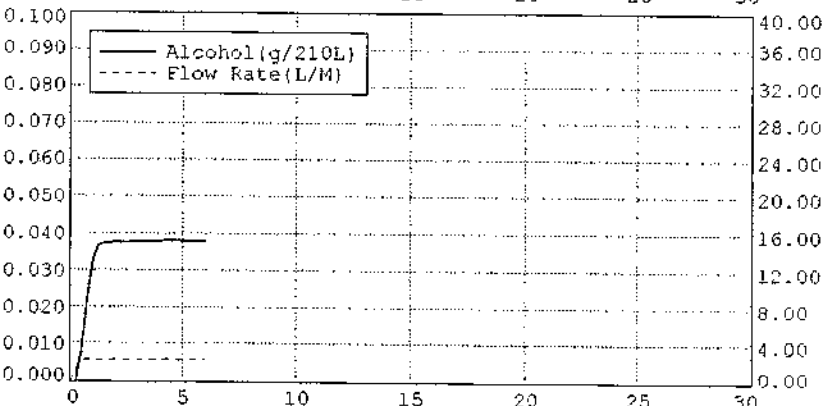
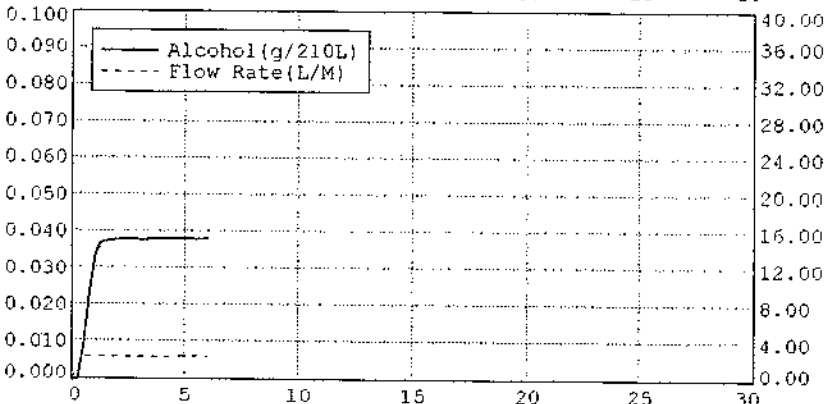
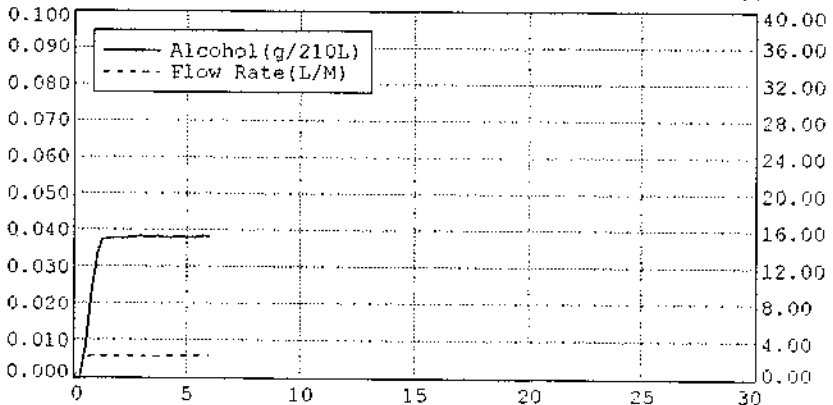
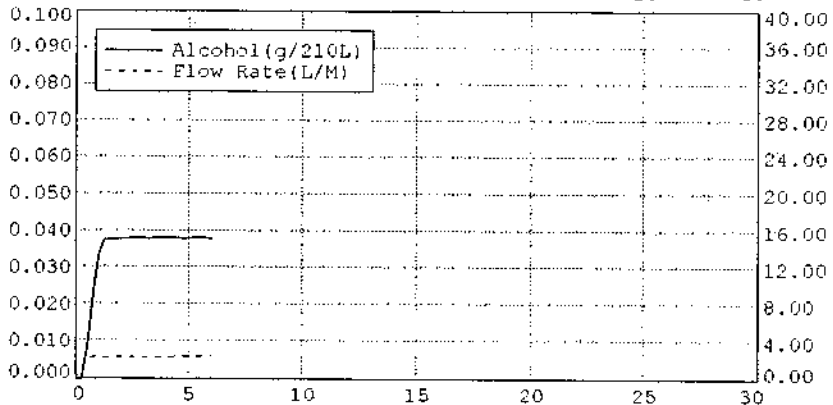
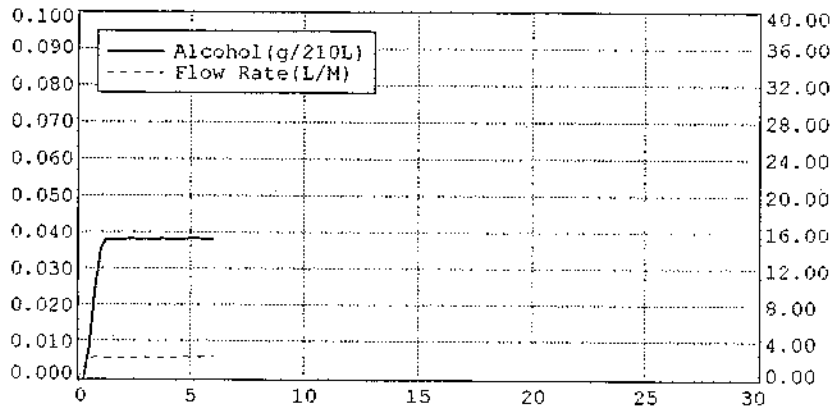
Date: 02/28/2017
 Time: 13:12:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.51: 0.039
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 476 psi

BLANK TEST	0.000	13:13
INTERNAL STANDARD	VERIFIED	13:13
EXTERNAL STANDARD	0.039	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.039	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.039	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.039	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.039	13:18
BLANK TEST	0.000	13:19

Average = 0.0390
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100373

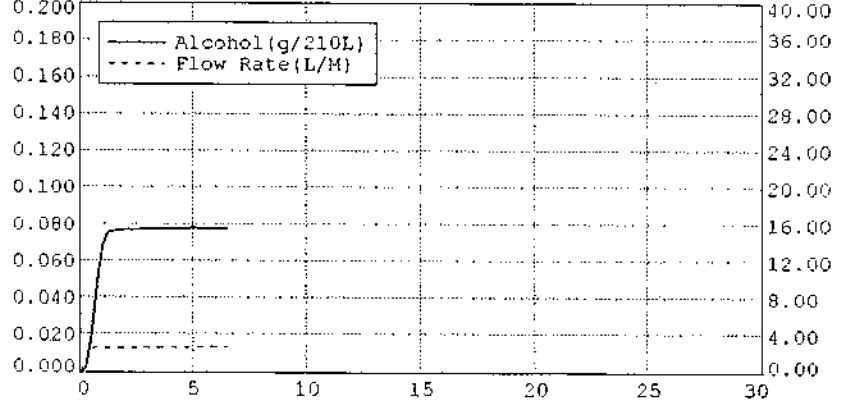
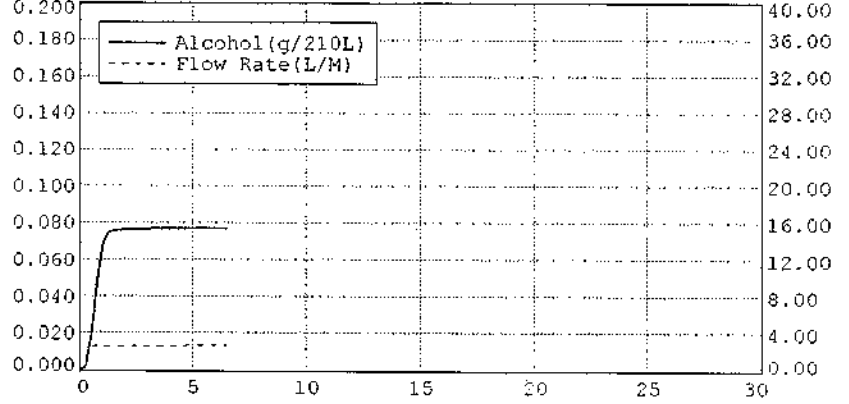
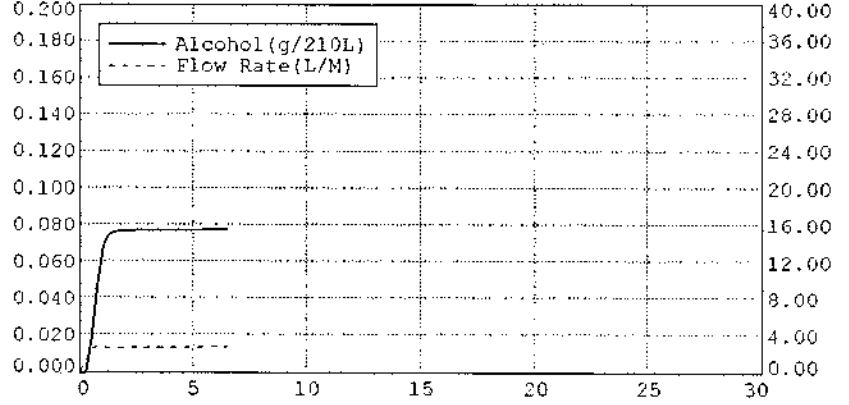
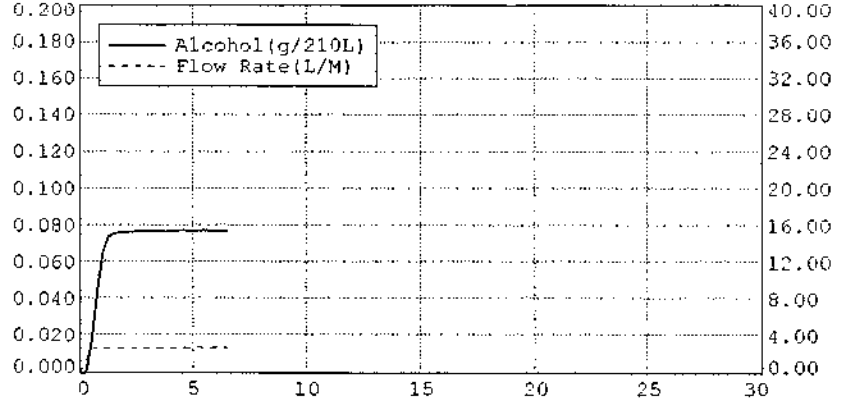
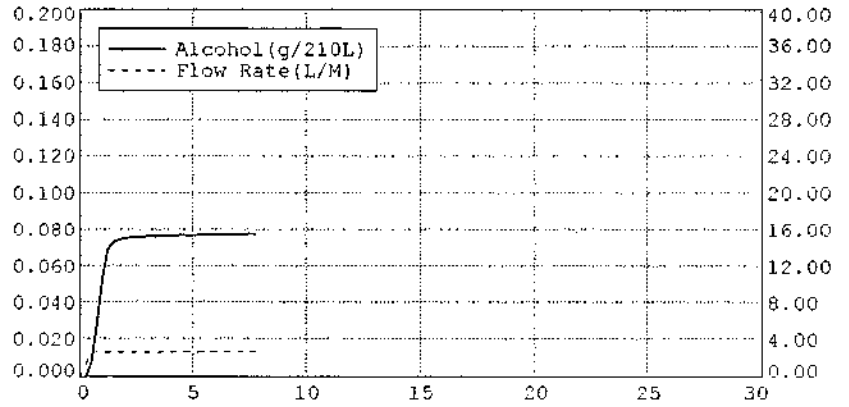
Date: 02/28/2017
 Time: 13:42:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.51: 0.079
 LOT #: AG608504
 EXPIRATION: 03/25/2018
 TANK PRESSURE: 1164 psi

BLANK TEST	0.000	13:44
INTERNAL STANDARD	VERIFIED	13:44
EXTERNAL STANDARD	0.078	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.078	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.078	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.078	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.079	13:48
BLANK TEST	0.000	13:49

Average = 0.0782
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100373

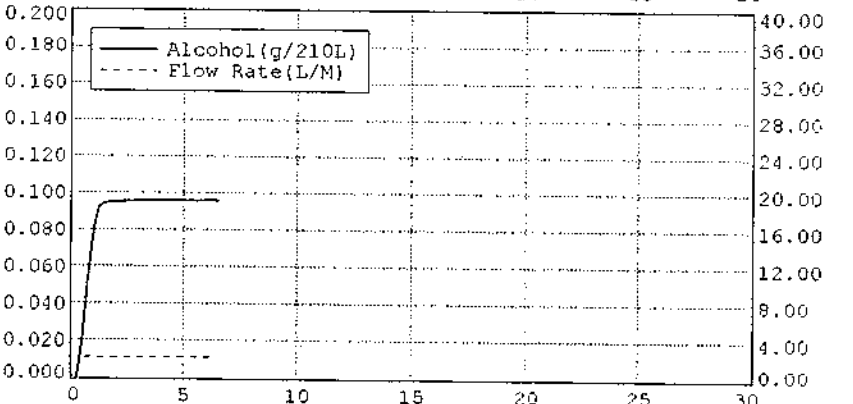
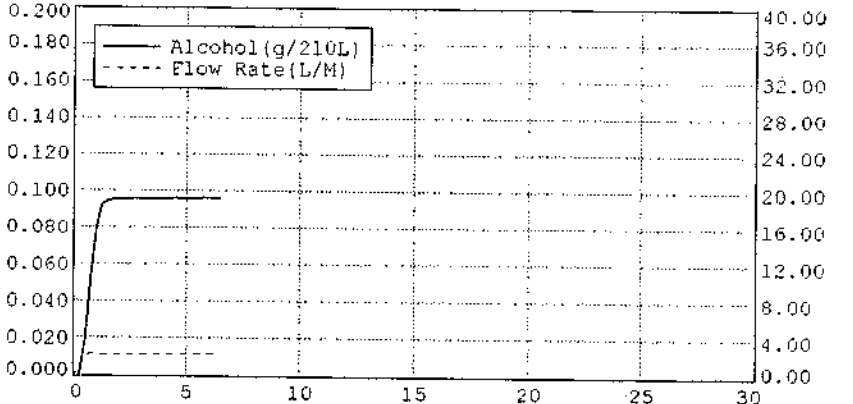
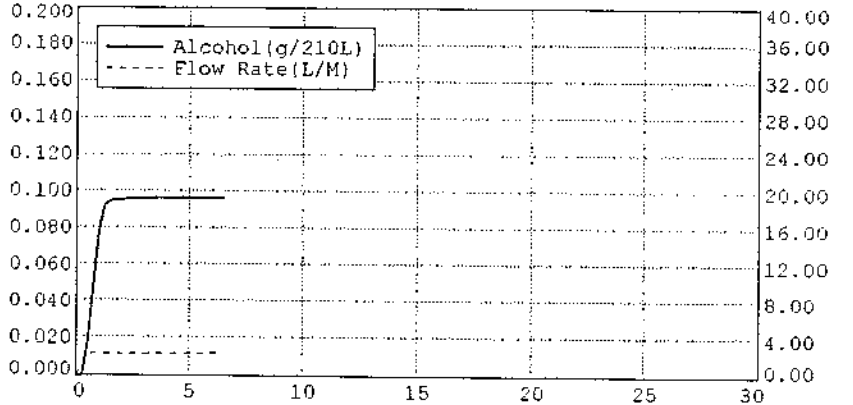
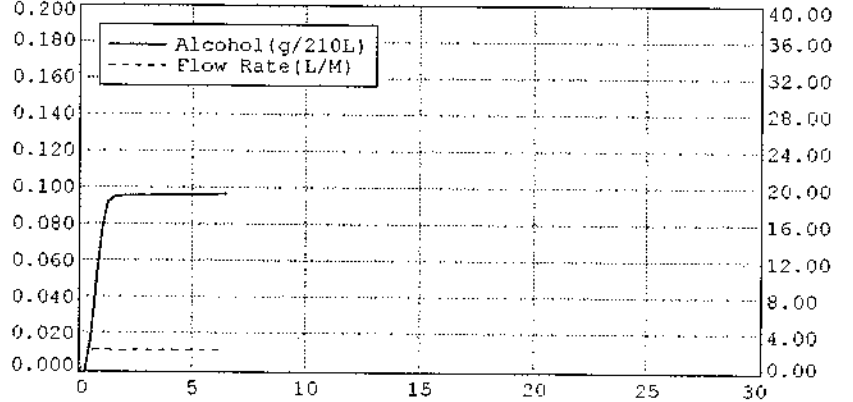
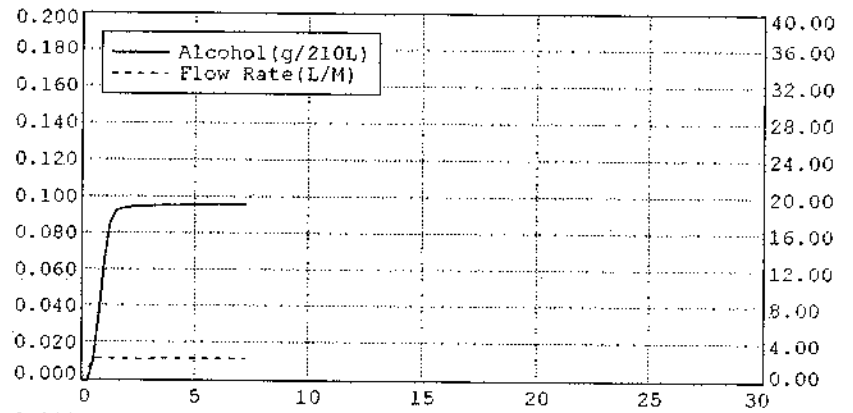
Date: 02/28/2017
 Time: 14:01:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.49: 0.099
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 446 psi

BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.097	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.097	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.097	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.097	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.097	14:07
BLANK TEST	0.000	14:07

Average = 0.0970
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100373

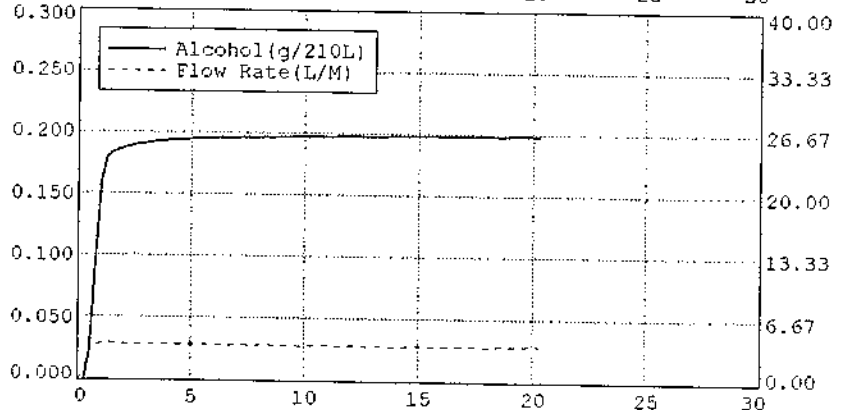
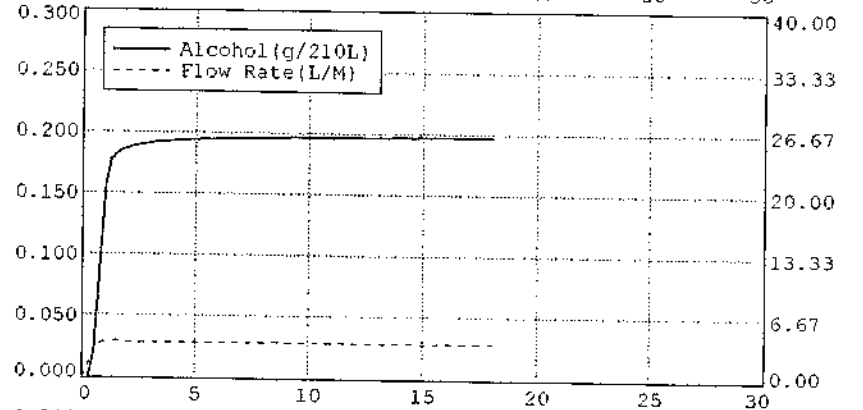
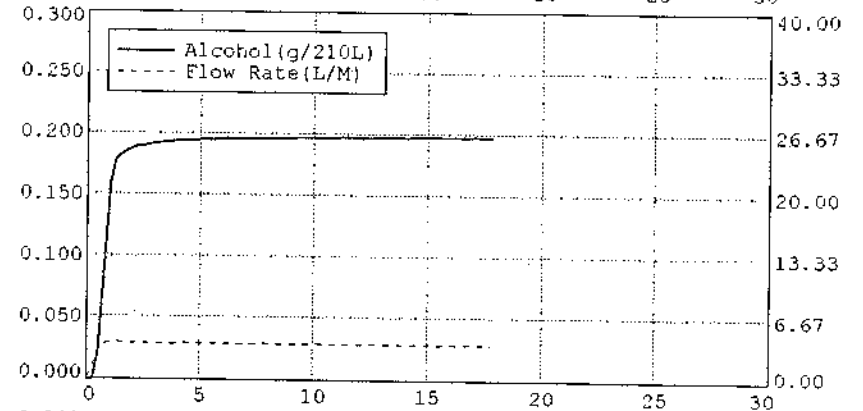
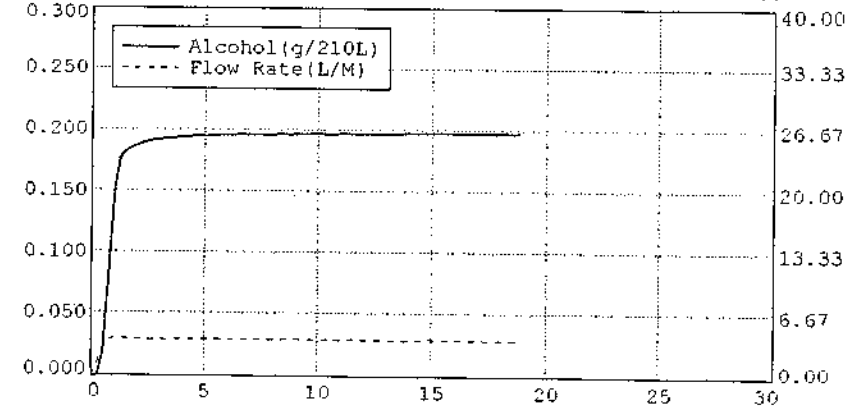
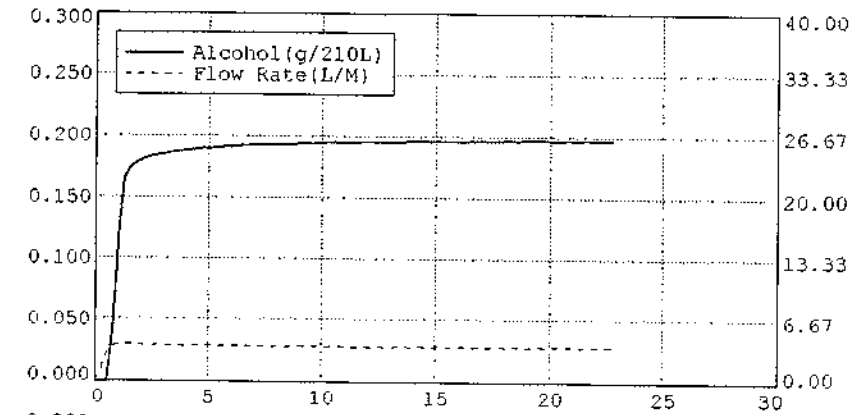
Date: 02/28/2017
 Time: 14:08:53

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:10
EXTERNAL STANDARD	0.198	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.198	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.198	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.198	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.199	14:16
BLANK TEST	0.000	14:17

Average = 0.1982
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100373

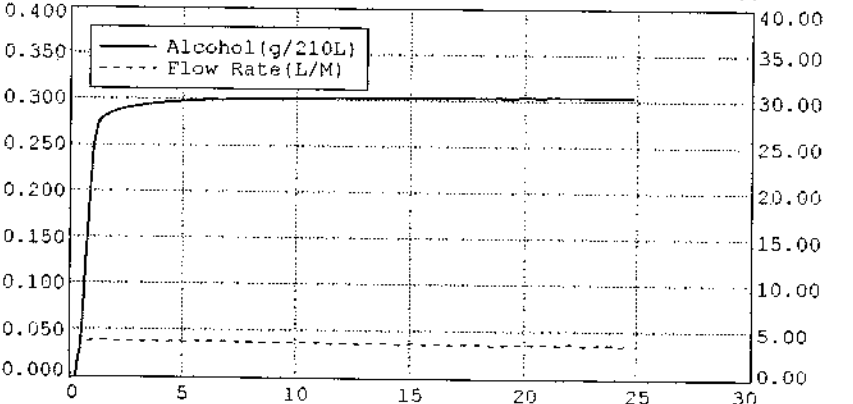
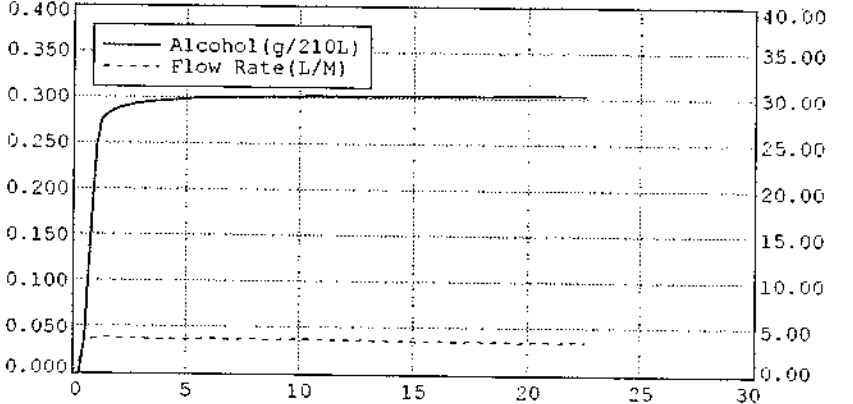
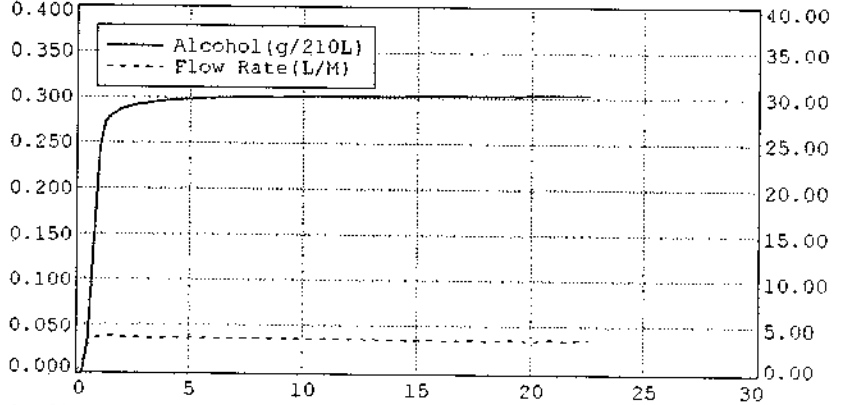
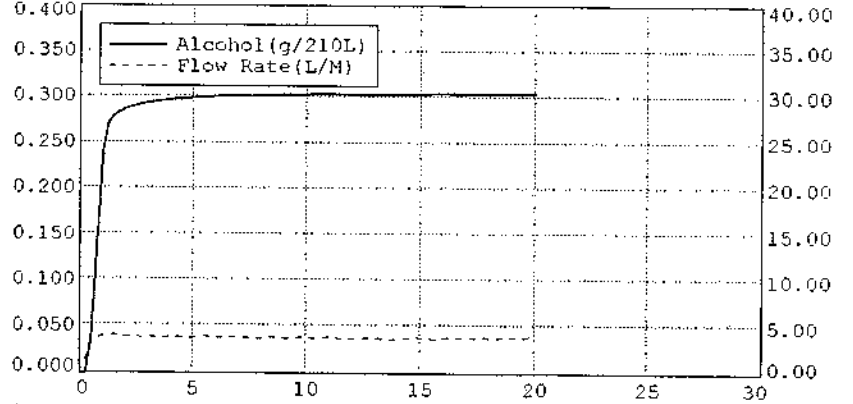
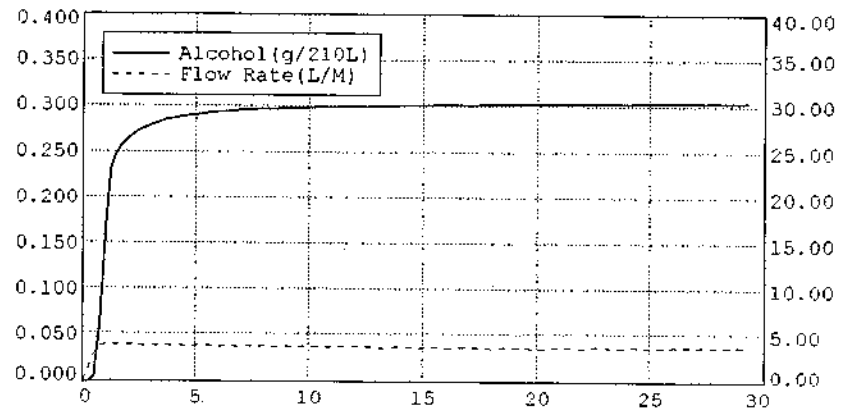
Date: 02/28/2017
 Time: 14:19:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: GUTH 16210
 EXPIRATION: 08/22/2018

BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:20
EXTERNAL STANDARD	0.304	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.303	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.304	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.304	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.304	14:26
BLANK TEST	0.000	14:27

Average = 0.3038
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 03/01/2017
Time: 11:09:43

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

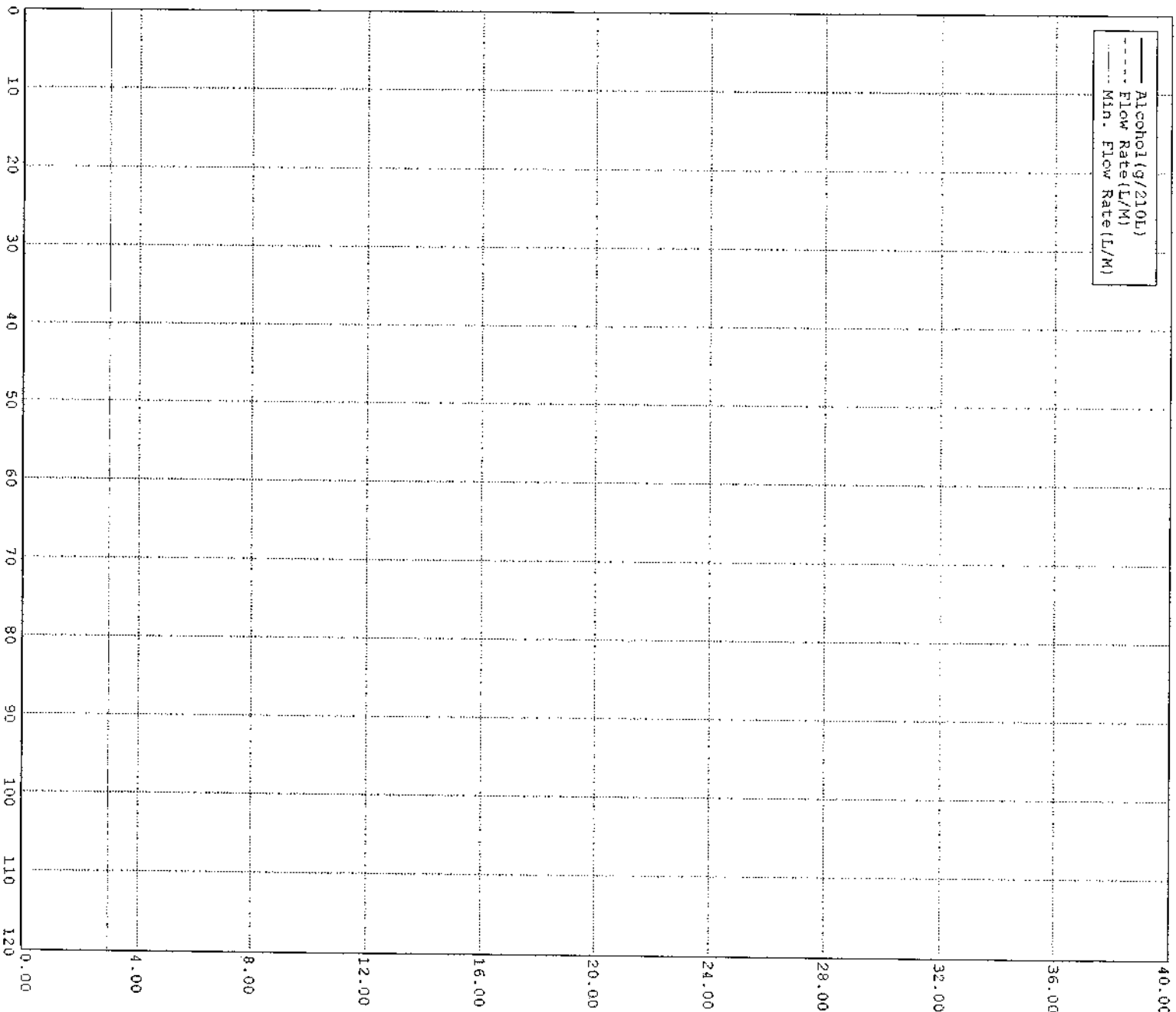
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	11:10
BLANK TEST	0.000	11:11
INTERNAL STANDARD	VERIFIED	11:11
EXTERNAL STANDARD	0.078	11:11
BLANK TEST	0.000	11:12
SUBJECT SAMPLE	INCOMPLETE	11:14

BBMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100373

Date: 03/01/2017
Time: 11:48:08

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

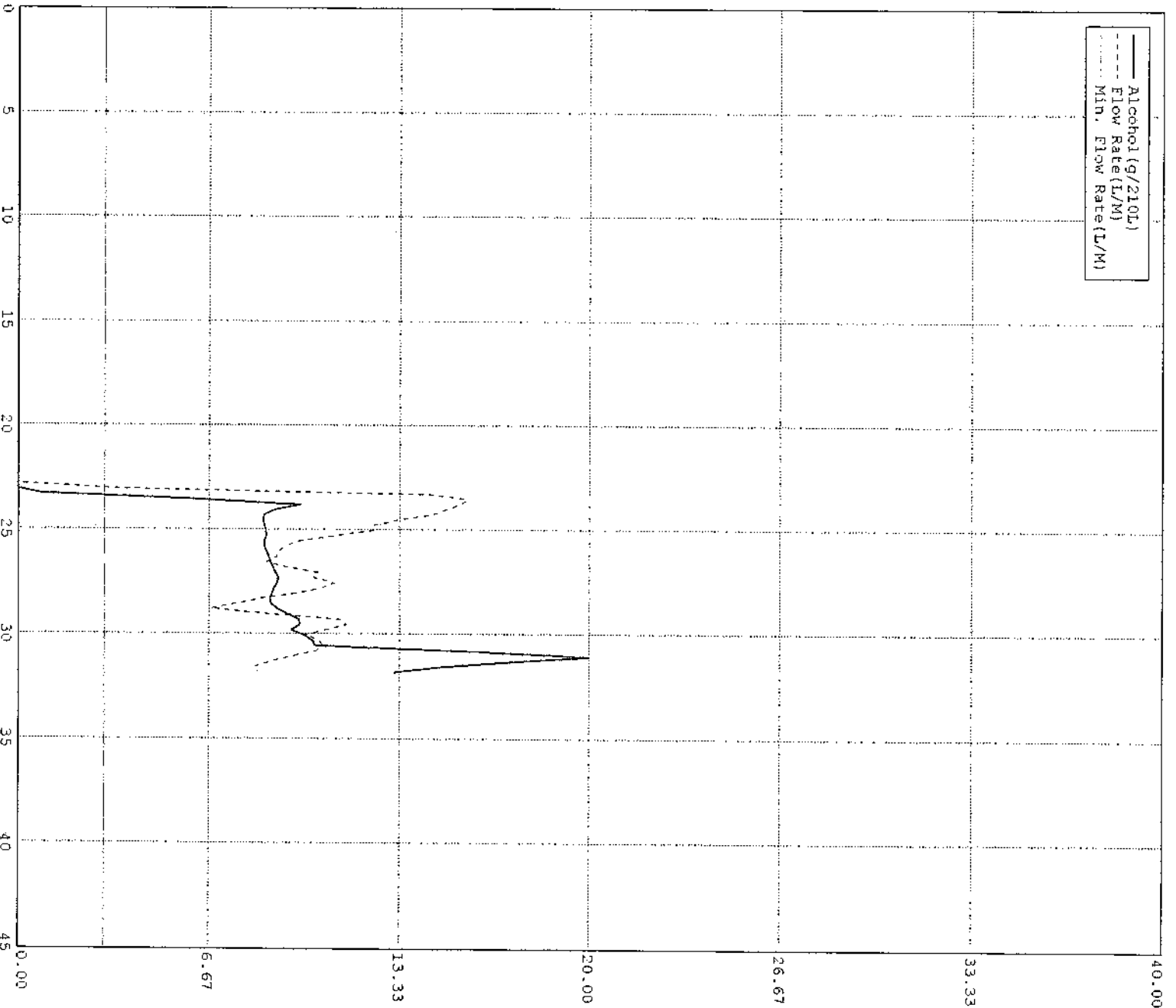
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	11:52
BLANK TEST	0.000	11:52
INTERNAL STANDARD	VERIFIED	11:53
EXTERNAL STANDARD	0.078	11:53
BLANK TEST	0.000	11:54
SUBJECT SAMPLE	INVALID	11:54

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 03/01/2017
Time: 12:11:11

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

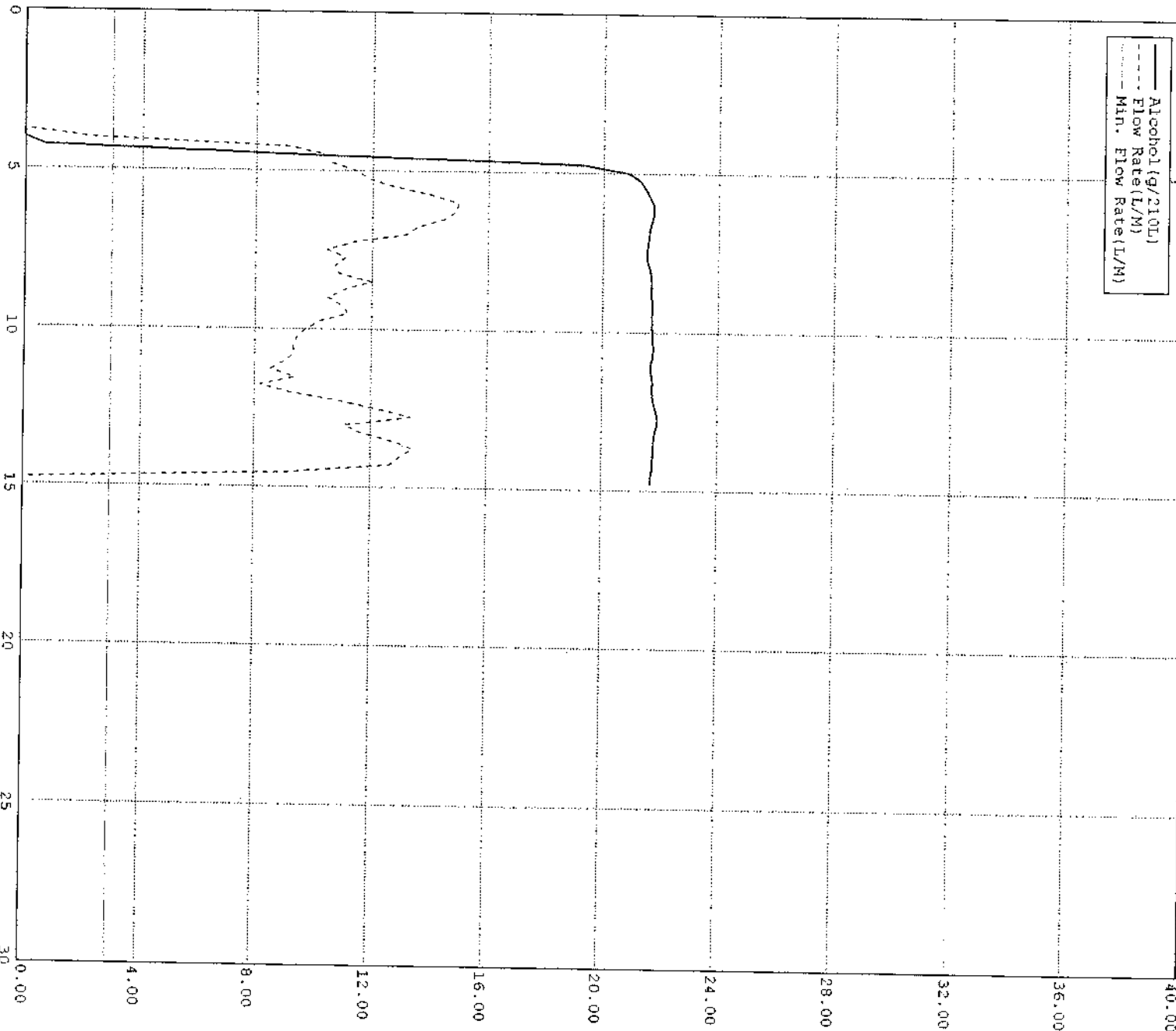
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	12:12
BLANK TEST	0.000	12:12
INTERNAL STANDARD	VERIFIED	12:13
Xq = 0.083 (1.71%)		
EXTERNAL STANDARD	0.079	12:13
X[1] = 0.0789 (-0.0016)	(0.0031)	
BLANK TEST	0.000	12:14
SUBJECT SAMPLE	XXX	12:14
X[1] = 0.1089 (-0.0191)	(0.0011)	

Interference Detected

Filter 2 Avg: -0.0018
Filter 3 Avg: 0.0027
BMB 3/1/17

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 03/01/2017
Time: 12:17:10

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

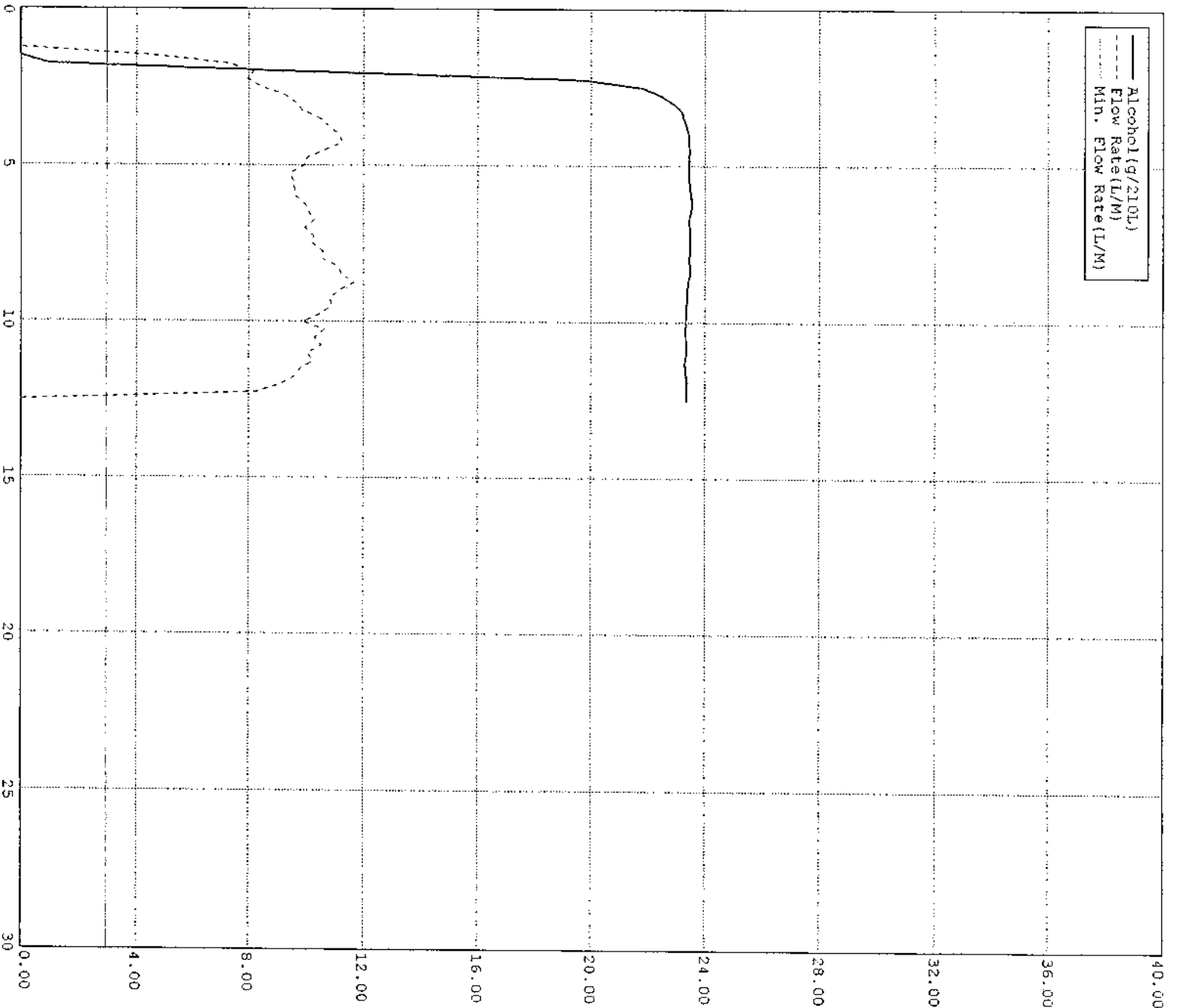
DEPT/AGENCY:
INTERFERENCE ISOPROPYL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	12:20
BLANK TEST	0.000	12:20
INTERNAL STANDARD	VERIFIED	12:20
Xq = 0.082 (1.07%)		
EXTERNAL STANDARD	0.078	12:20
X[1] = 0.0781 (-0.0020)	(0.0024)	
BLANK TEST	0.000	12:21
SUBJECT SAMPLE	XXX	12:21
X[1] = 0.1170 (-0.0246)	(0.0015)	

Interference Detected

BBMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 03/01/2017
Time: 12:25:21

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

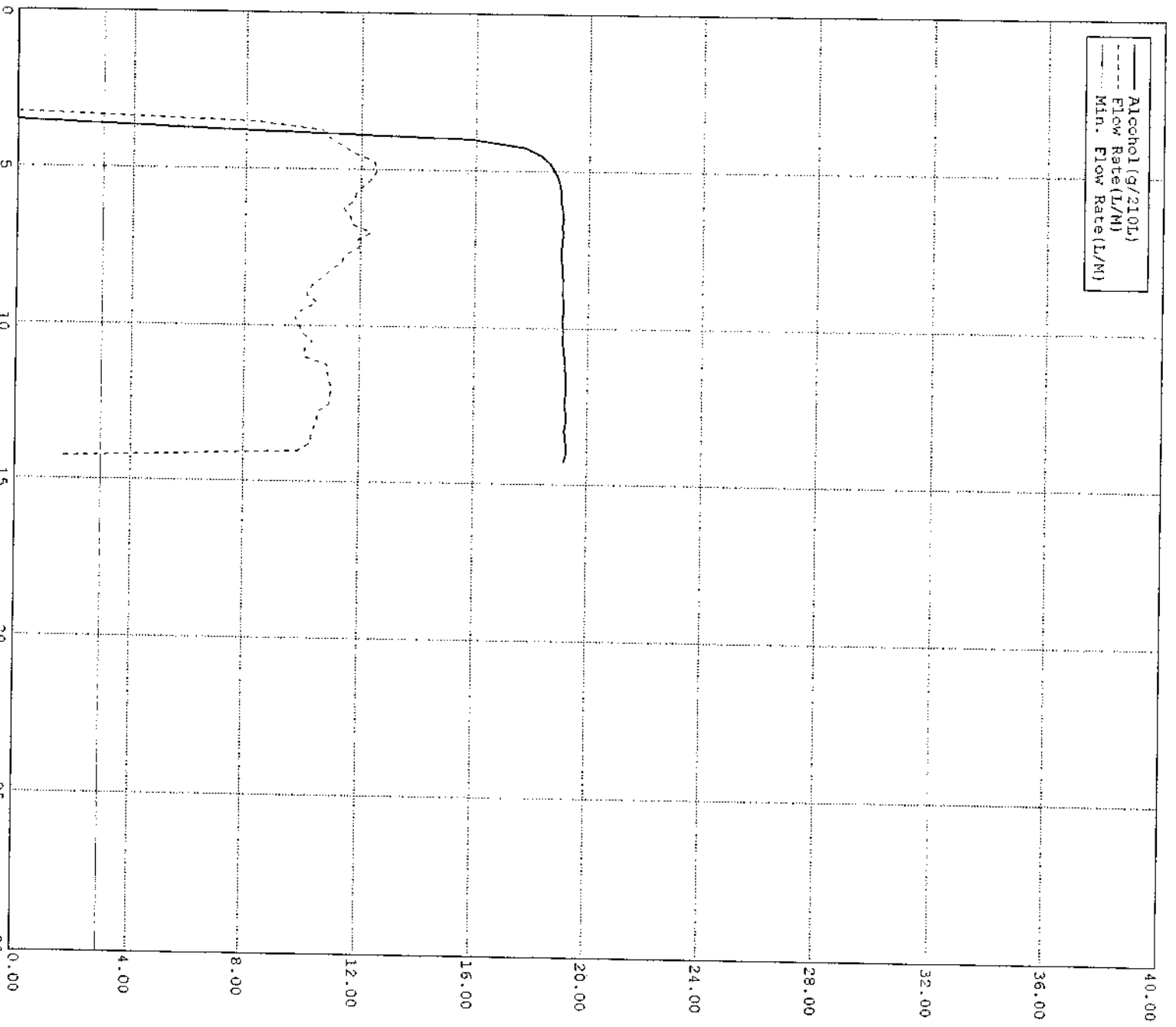
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	12:26
BLANK TEST	0.000	12:26
INTERNAL STANDARD	VERIFIED	12:27
Xq = 0.083 (1.82%)		
EXTERNAL STANDARD	0.078	12:27
X[1] = 0.0784 (-0.0021)	(0.0028)	
BLANK TEST	0.000	12:28
SUBJECT SAMPLE (Vol=1.97L)	0.096	12:28
X[1] = 0.0963 (-0.0001)	(0.0008)	
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.079	12:29
X[1] = 0.0787 (-0.0016)	(0.0025)	
BLANK TEST	0.000	12:30

BBMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 03/01/2017
Time: 11:42:06

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

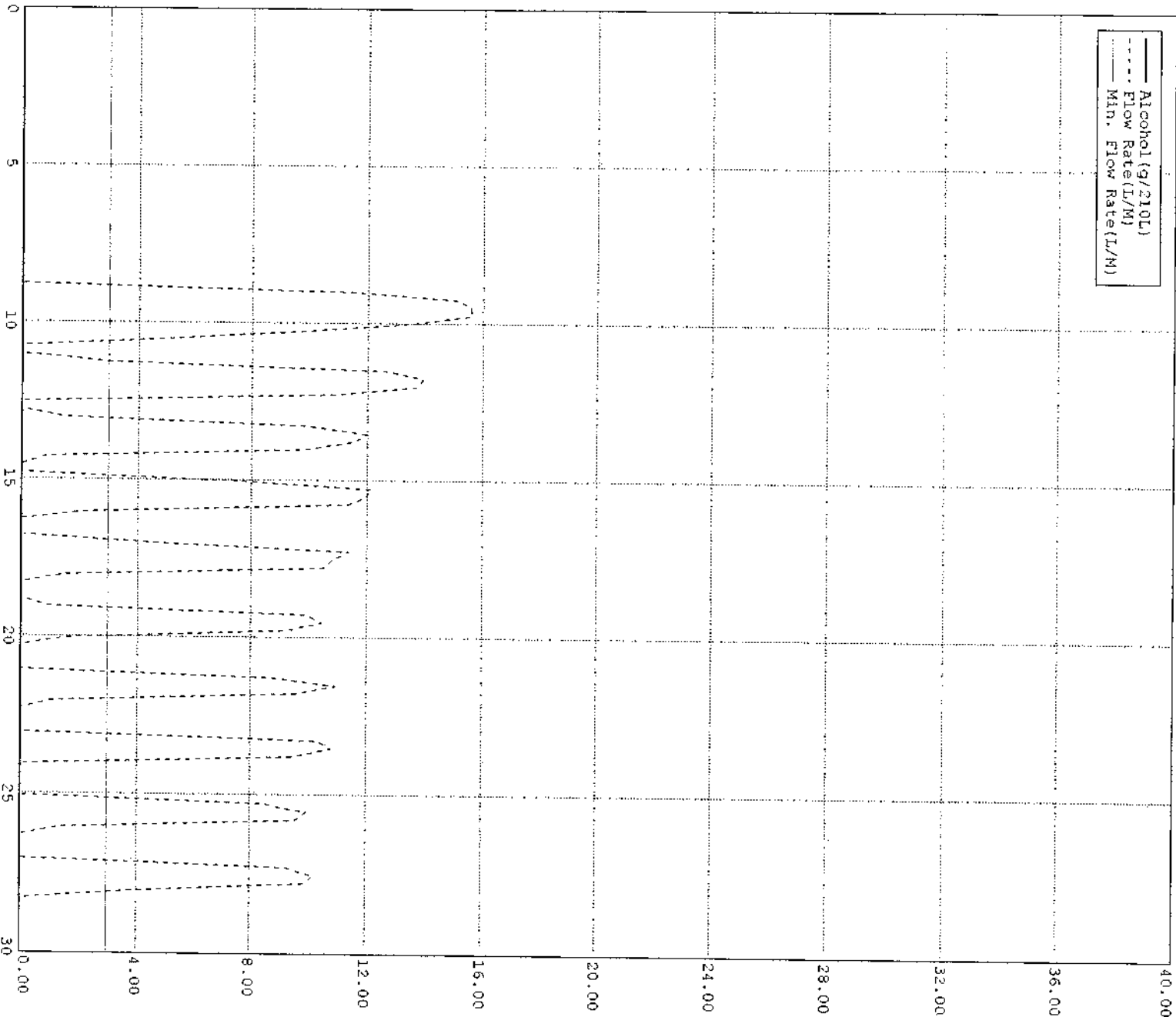
DEPT/AGENCY:
MAXIMUM ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	11:43
BLANK TEST	0.000	11:43
INTERNAL STANDARD	0.079	11:43
EXTERNAL STANDARD	0.000	11:44
BLANK TEST	XXX	11:45

Maximum Attempts Exceeded

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 03/01/2017
Time: 11:36:51

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

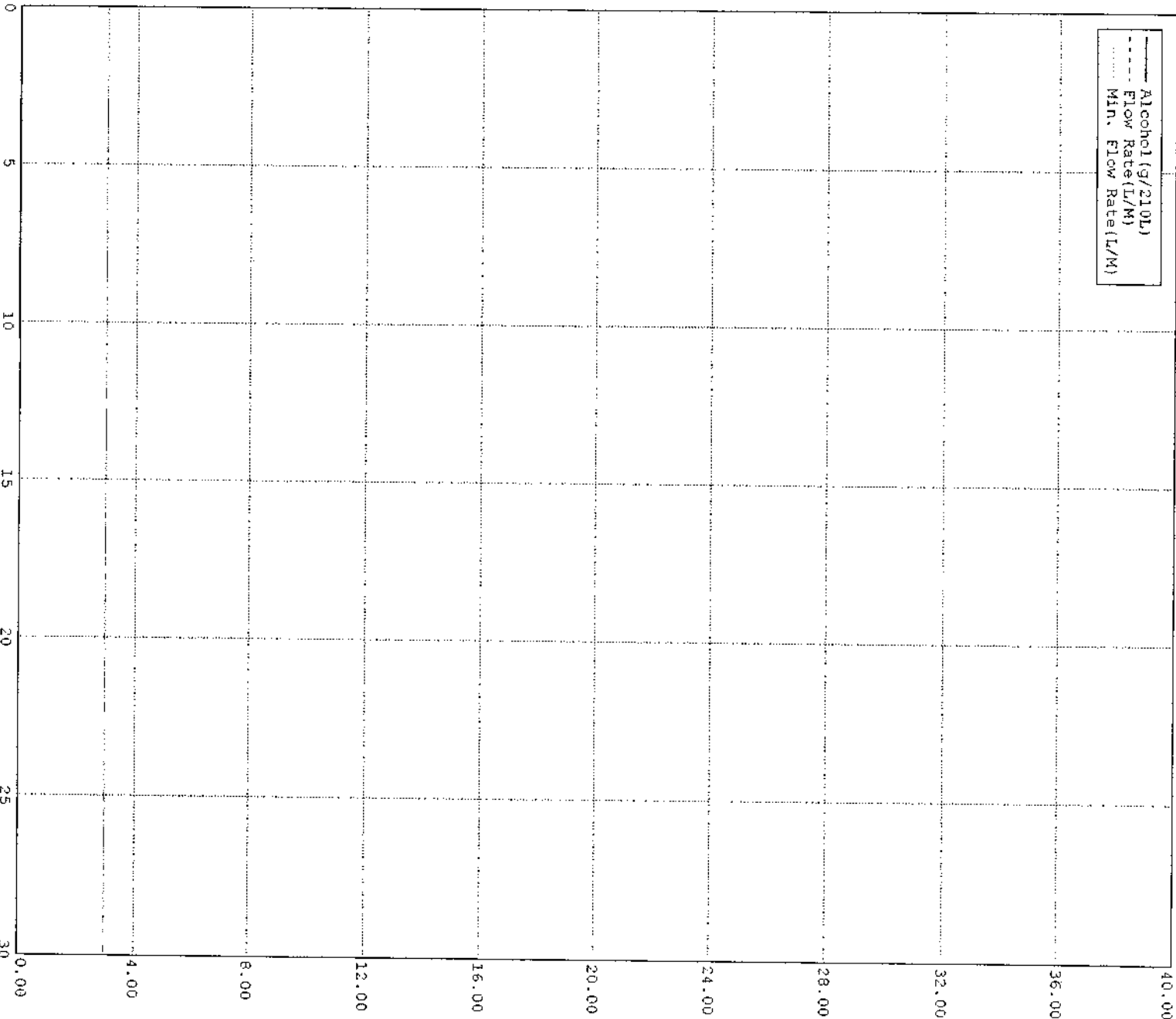
DEPT/AGENCY:
RFI
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	11:38
BLANK TEST	0.000	11:38
INTERNAL STANDARD	VERIFIED	11:38
EXTERNAL STANDARD	0.078	11:38
BLANK TEST	0.000	11:39

RFI DETECTED

BNB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100373

Date: 03/01/2017
Time: 13:40:33

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 29.62: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	13:41
BLANK TEST	0.000	13:41
INTERNAL STANDARD	VERIFIED	13:42
EXTERNAL STANDARD	0.078	13:42
BLANK TEST	0.000	13:43
SUBJECT SAMPLE (Vol=1.59L)	0.000	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.079	13:44
BLANK TEST	0.000	13:45

