

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 100405 Analyst Brandi Burnett Start Date 3/29/17

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 1.5 L (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf Airgas Lot AG1616504 Exp 6/13/18

ii. 0.040g/210L Mnf Airgas Lot AG1630101 Exp 10/27/18

iii. 0.080g/210L Mnf Airgas Lot AG134001 Exp 12/5/18

iv. 0.100g/210L Mnf Airgas Lot AG1629304 Exp 10/19/18

v. 0.200g/210L Mnf Guth Lot 16190 Exp 8/15/18

1. Simulator S/N DR5298 Date Calibrated 9/14/16

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 5220 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 3/30/17

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 03/29/2017
Time: 12:08:09

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.67 V PASSED
(1.03 V - 2.41 V)
Cooler Voltage = 1.69 V PASSED
(0.98 V - 2.30 V)
Bias Voltage = 81 V PASSED
(49 V - 113 V)
Chopper Freq = 547 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.917 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.005 V <= 0.010 V)
PUMP OFF PASSED
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.086 0.00% PASSED
(0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100405

Date: 03/29/2017
Time: 12:20 PM

Temperatures (°C)
Sample Cell: 48.8°C
Breath Tube: 45.2°C

Current Barometer 29.3 in
Volume (litr) 1.59

Settings
Lamp: 1.72 V
Bias: 81 V
Cooler: 1.71 V
Chopper: 546 Hz

Voltages (V)
Flow: 1.05 V
Detector: -0.057 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 05/03/2011
Time: 11:47:16

Ca	=	0.1000			
CAL	=	0.983919	0.800	<=	CAL < 1.200
b1	=	0.0003	0.0000	<=	b1 < 0.0040
b2	=	0.0028	0.0010	<=	b2 < 0.0100
b3	=	0.0000	0.0000	<=	b3 < 0.0040
Xq	=	0.0855	0.0500	<=	Xq < 0.2000
a21	=	1.121109	1.050	<=	a21 < 1.300
a31	=	0.488526	0.300	<=	a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 03/29/2017
Time: 12:21:38

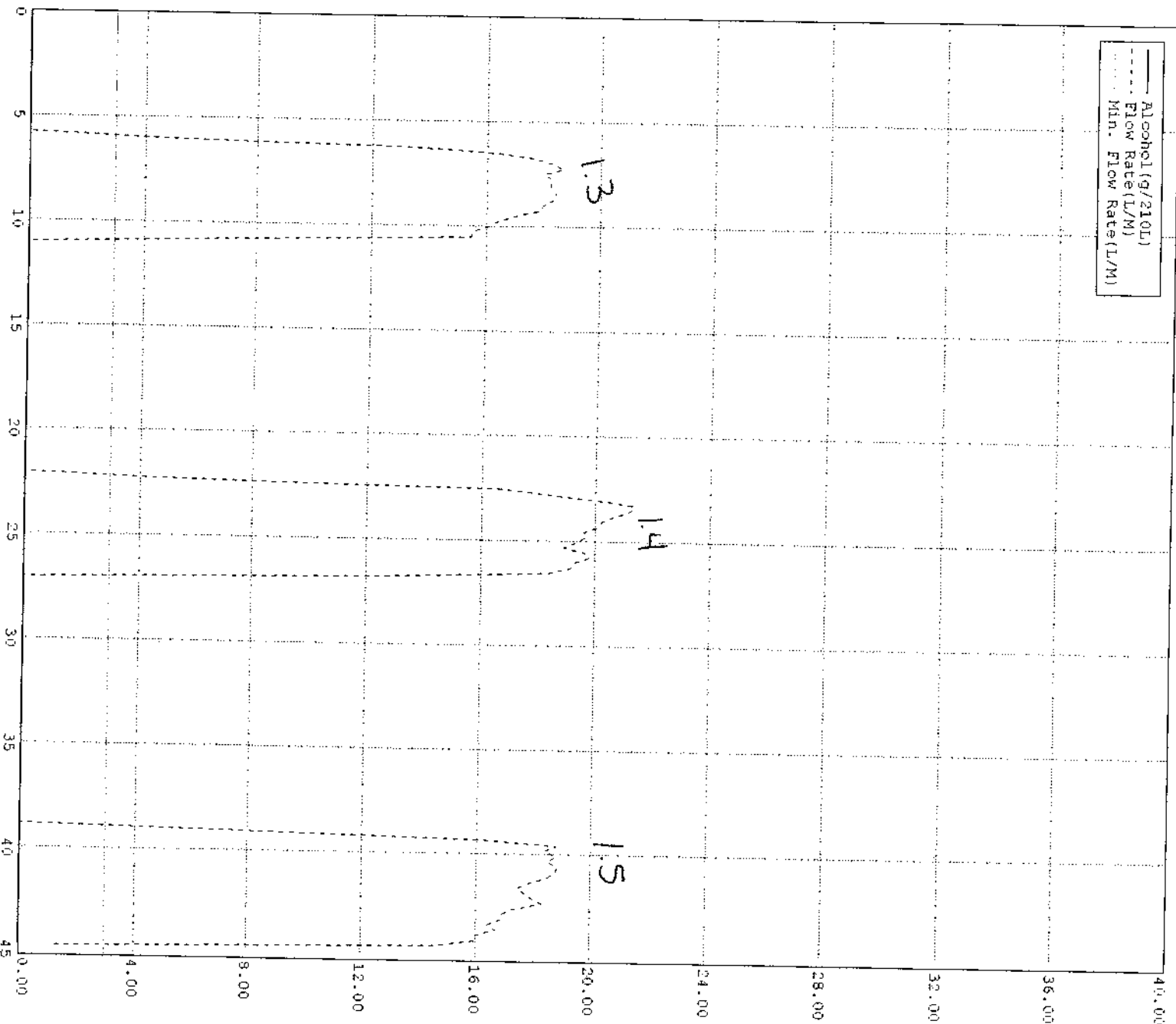
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.34: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	12:22
BLANK TEST	0.000	12:22
INTERNAL STANDARD	VERIFIED	12:23
EXTERNAL STANDARD	0.078	12:23
BLANK TEST	0.000	12:24
SUBJECT SAMPLE (Vol=1.57L)	0.000	12:25
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.078	12:26
BLANK TEST	0.000	12:27



LINEARITY CHECK

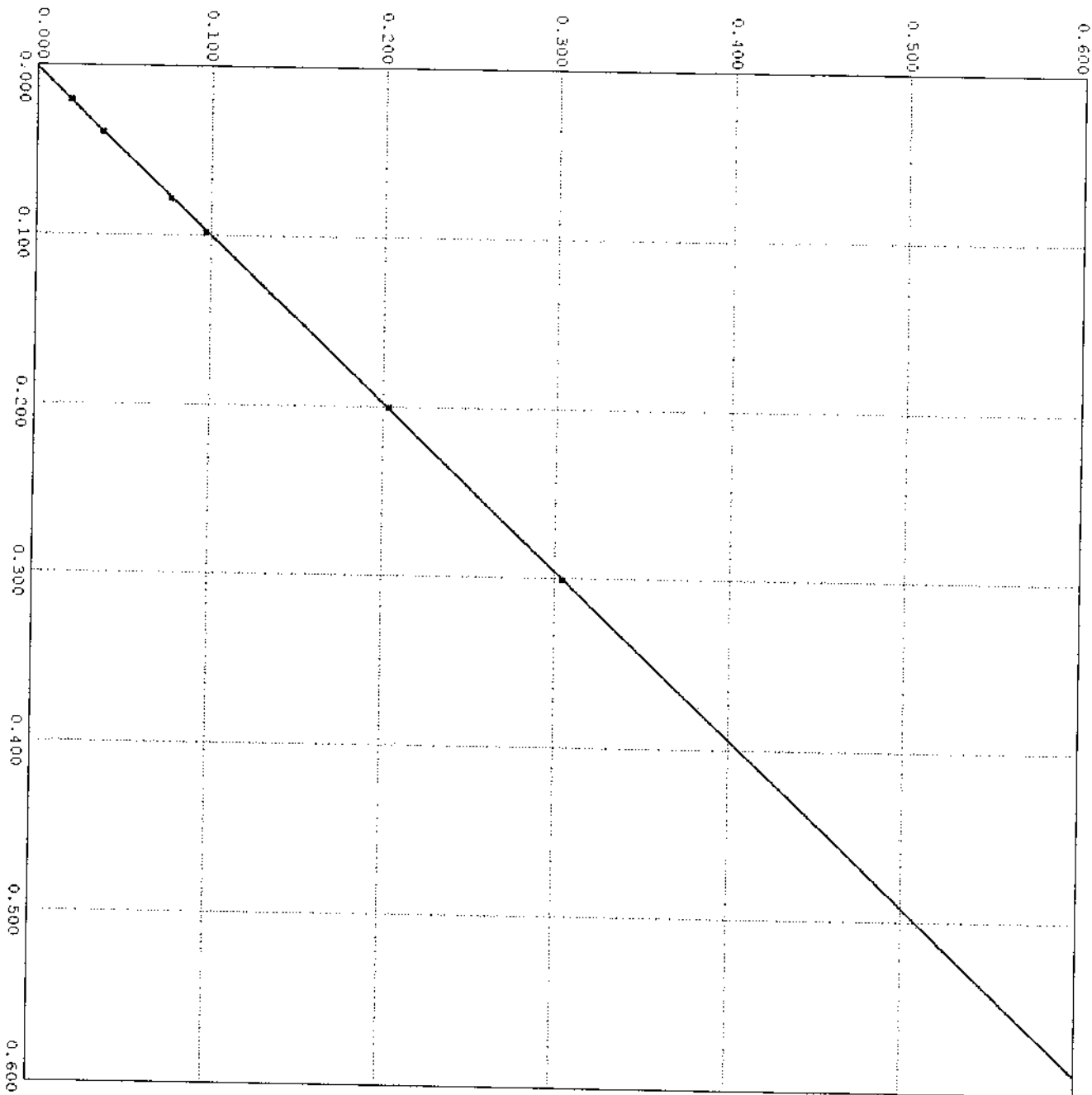
Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 03/29/2017
Time: 12:55:59

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.039	0.0388	0.0004
0.078	0.0780	0.0000
0.098	0.0980	0.0000
0.200	0.2040	0.0000
0.300	0.3052	0.0004

SLOPE = 1.021351
R² = 0.999954



Handwritten signature

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

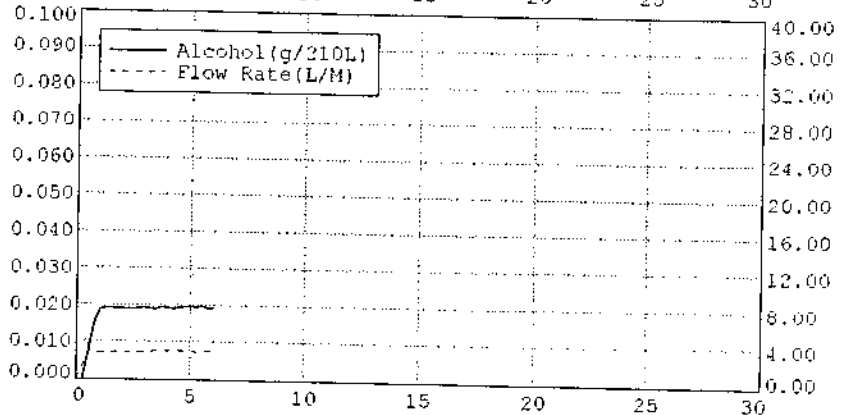
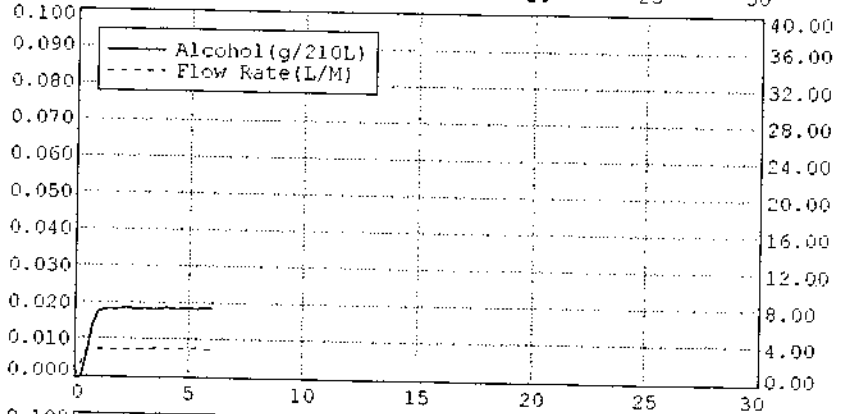
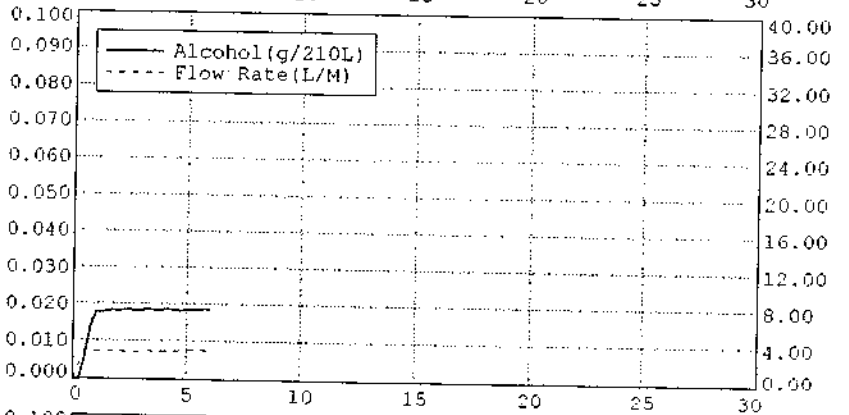
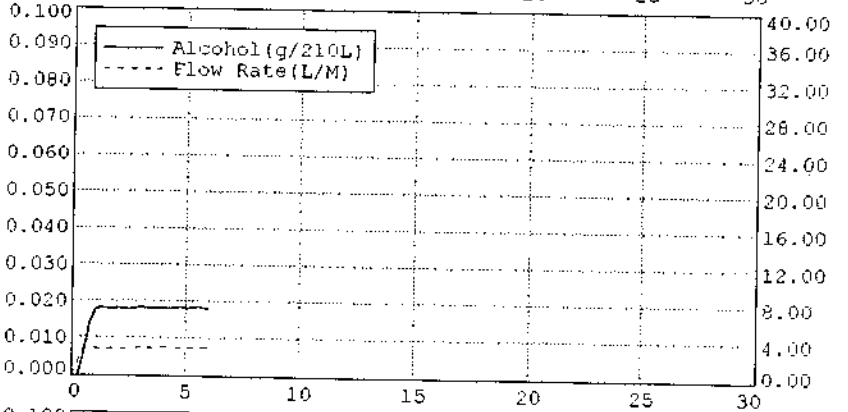
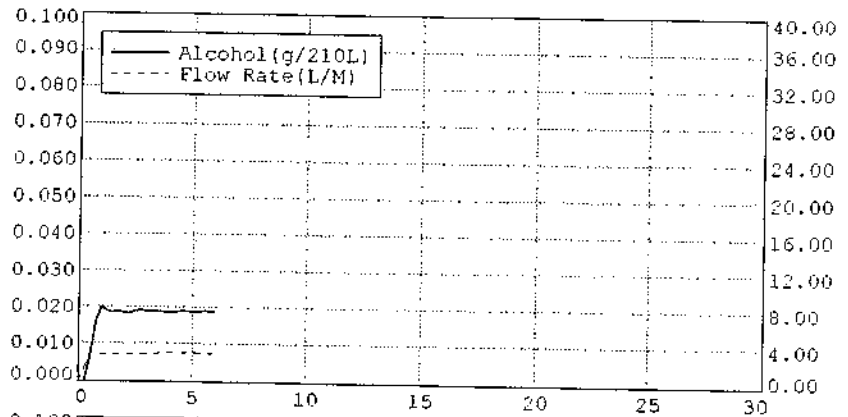
Date: 03/29/2017
 Time: 12:56:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.35: 0.020
 LOT #: AG616504
 EXPIRATION: 06/13/2018
 TANK PRESSURE: 1011 psi

BLANK TEST	0.000	12:57
INTERNAL STANDARD	VERIFIED	12:57
EXTERNAL STANDARD	0.020	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.020	12:58
BLANK TEST	0.000	12:59
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	0.021	13:02
BLANK TEST	0.000	13:03

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

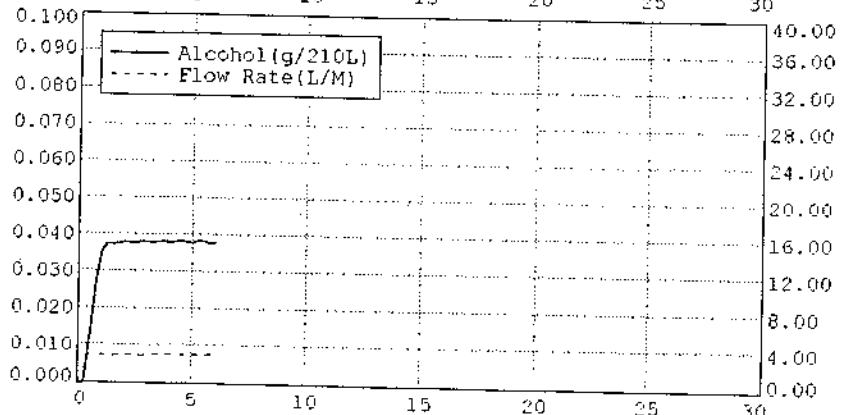
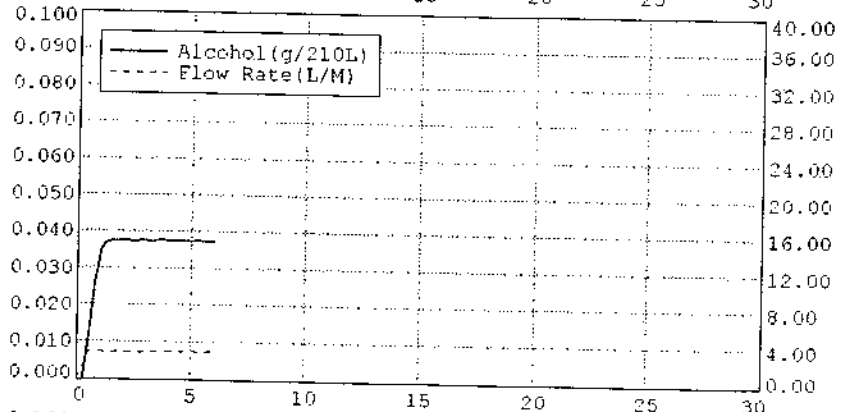
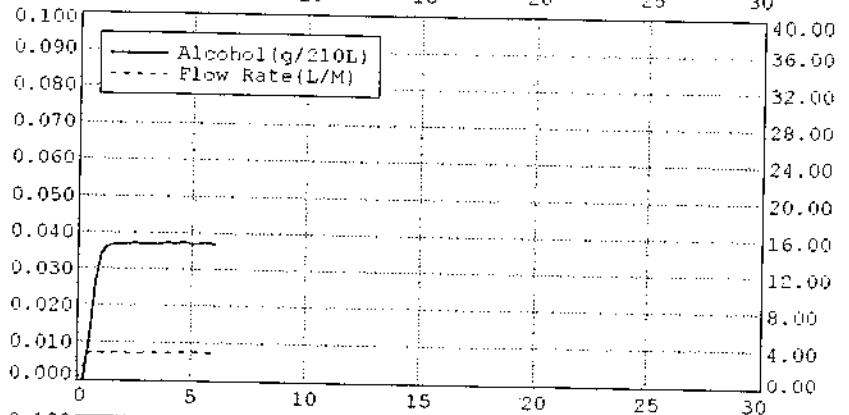
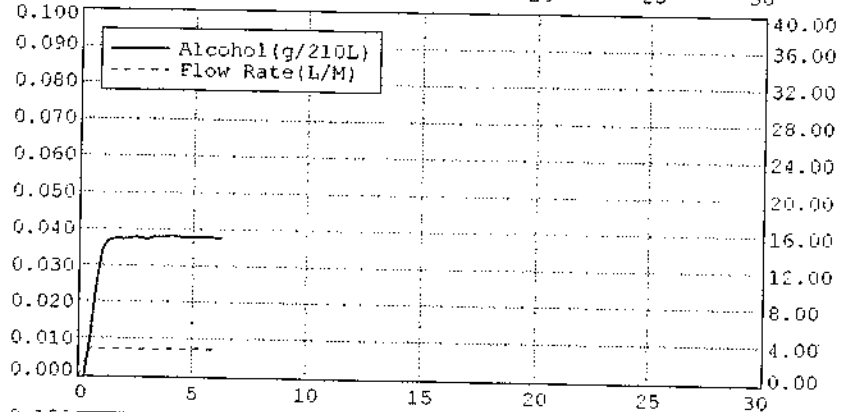
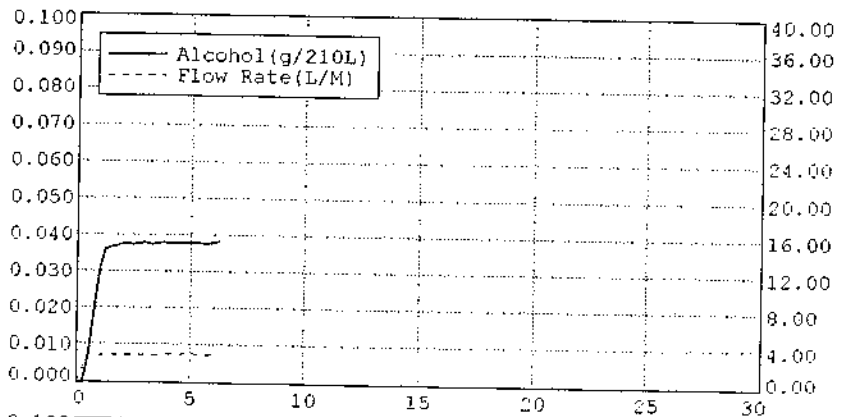
Date: 03/29/2017
 Time: 13:07:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.35: 0.039
 LOT #: AG630101
 EXPIRATION: 10/27/2018
 TANK PRESSURE: 1012 psi

BLANK TEST	0.000	13:08
INTERNAL STANDARD	VERIFIED	13:09
EXTERNAL STANDARD	0.039	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.039	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.038	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.039	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.039	13:13
BLANK TEST	0.000	13:14

Average = 0.0388
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DAYAMASTER dmt: 100405

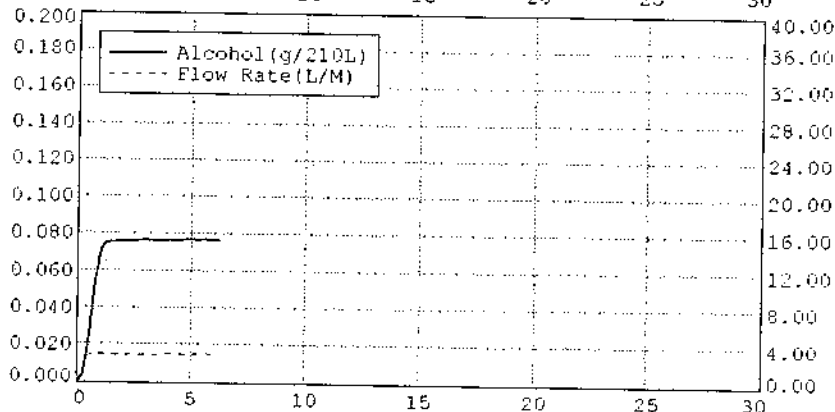
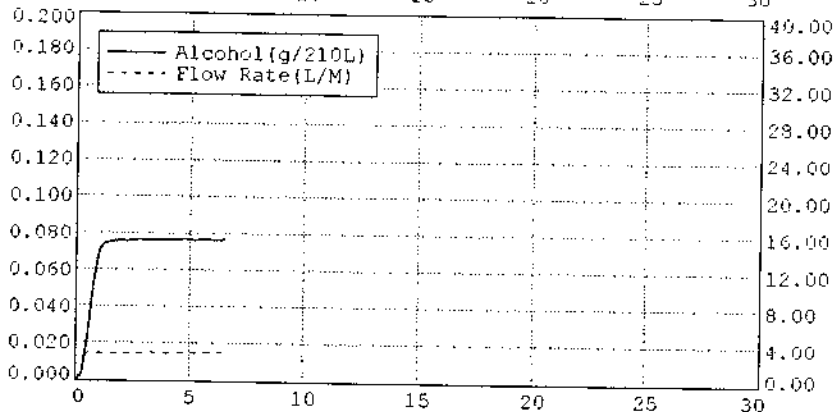
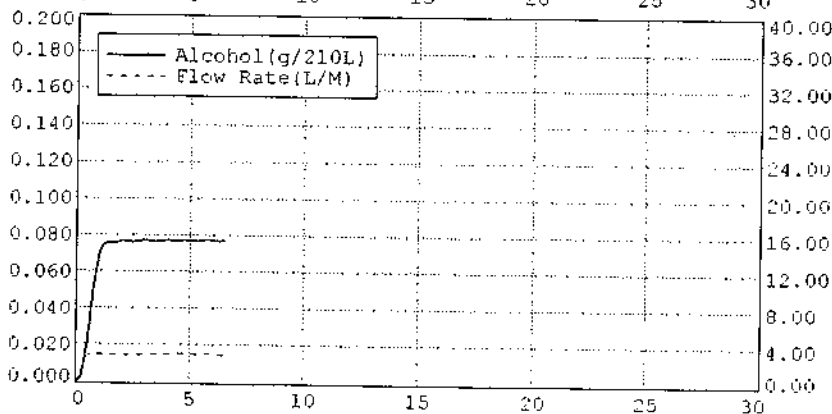
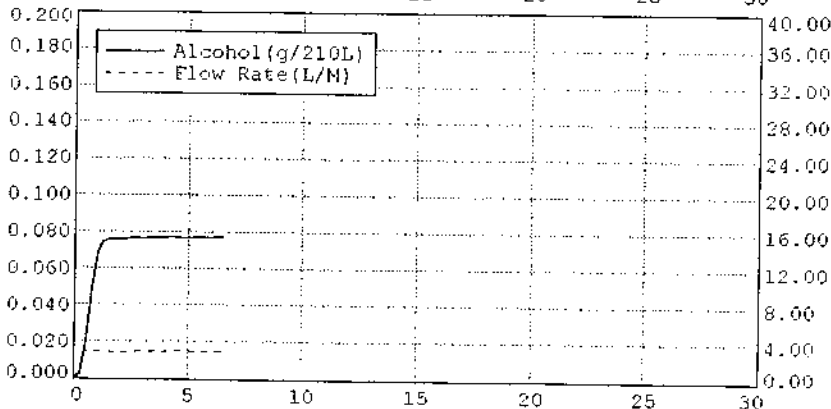
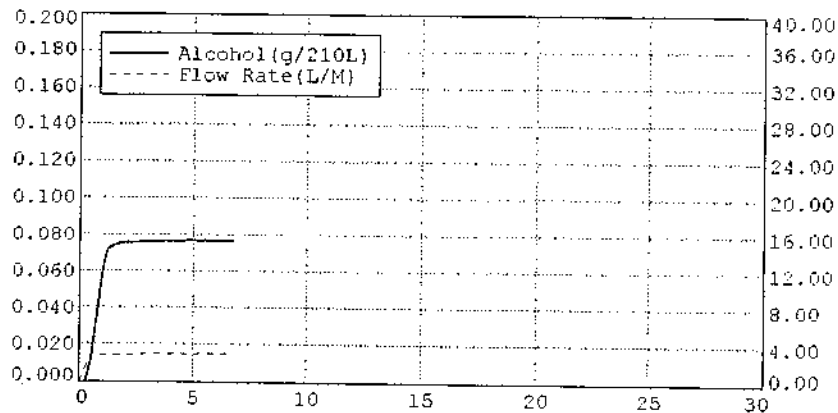
Date: 03/29/2017
 Time: 13:19:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.35: 0.078
 LOT #: AG634001
 EXPIRATION: 12/05/2018
 TANK PRESSURE: 1057 psi

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
EXTERNAL STANDARD	0.078	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.078	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.078	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.078	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.078	13:26
BLANK TEST	0.000	13:26

Average = 0.0780
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

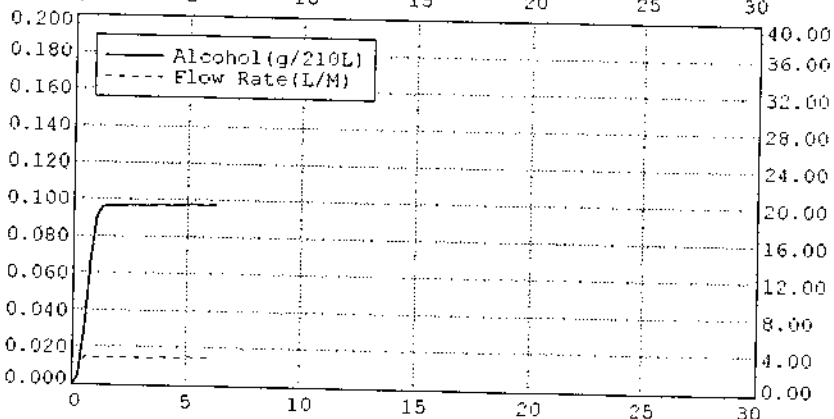
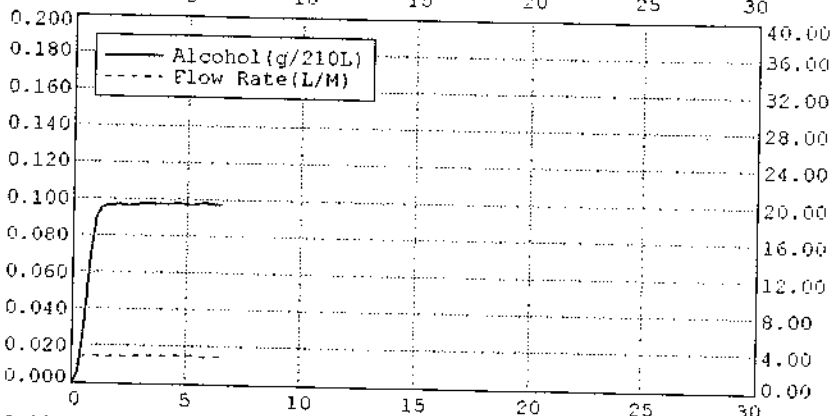
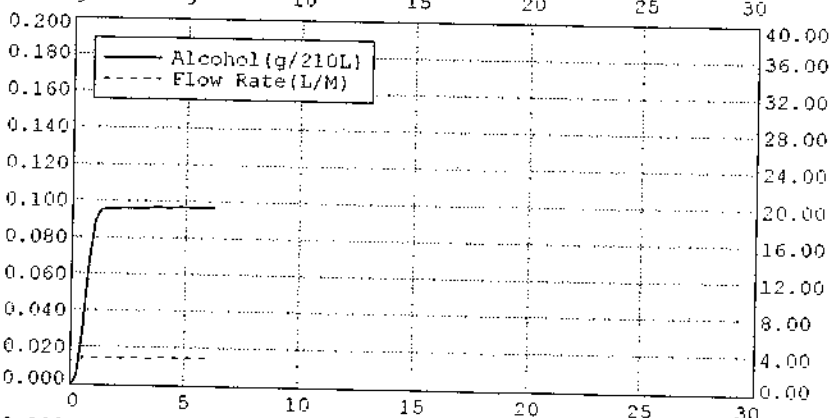
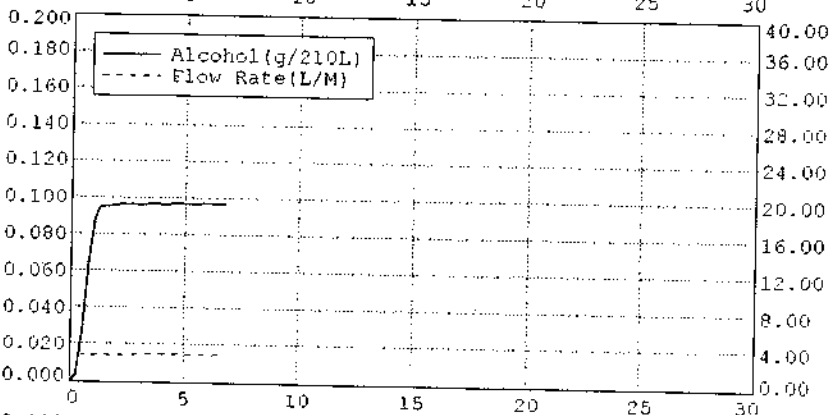
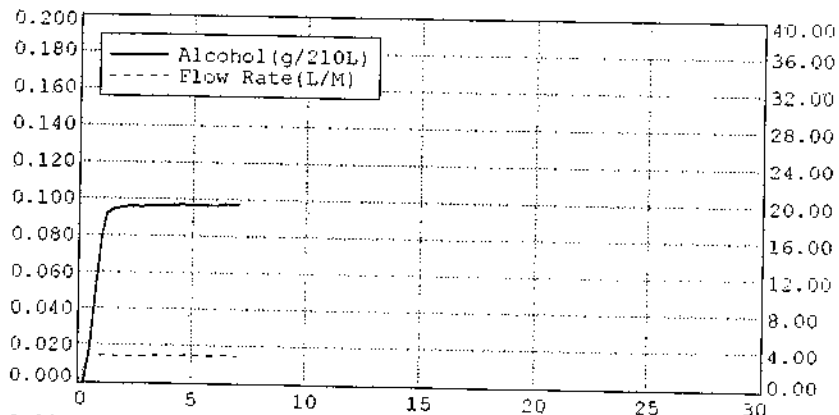
Date: 03/29/2017
 Time: 13:32:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.35: 0.098
 LOT #: AG629304
 EXPIRATION: 10/19/2018
 TANK PRESSURE: 962 psi

BLANK TEST	0.000	13:34
INTERNAL STANDARD	VERIFIED	13:34
EXTERNAL STANDARD	0.098	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.098	13:36
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.098	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.098	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.098	13:39
BLANK TEST	0.000	13:40

Average = 0.0980
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

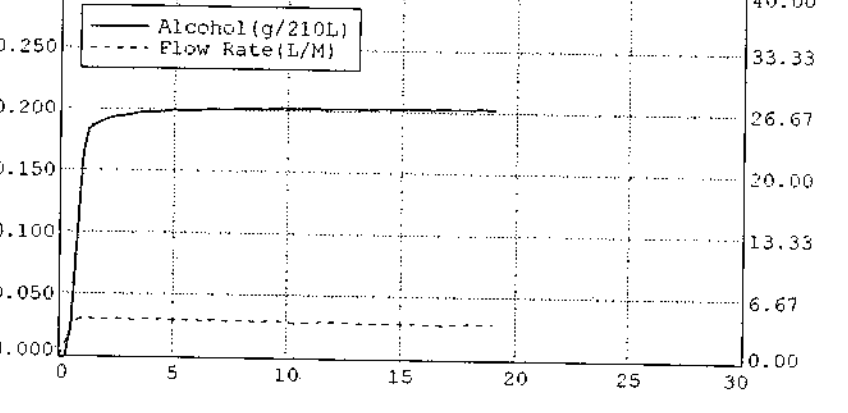
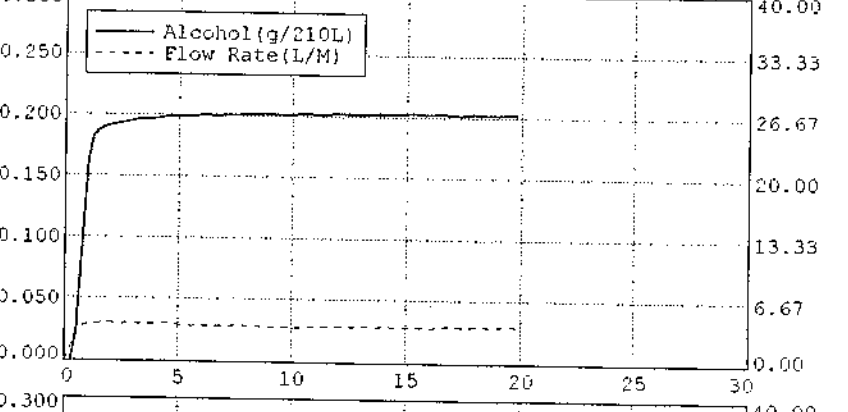
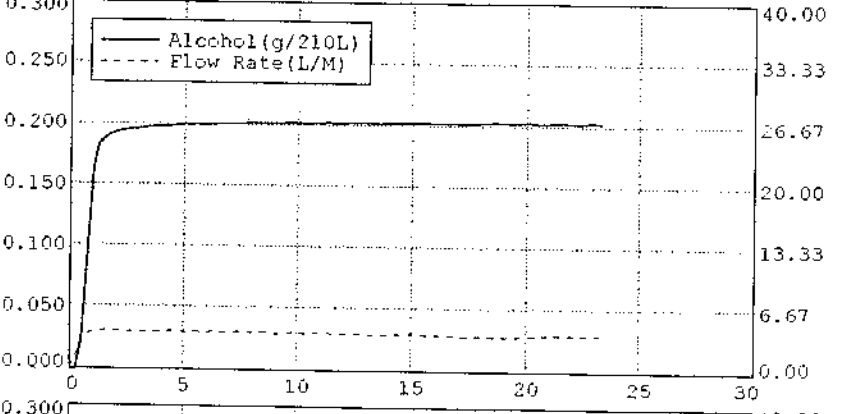
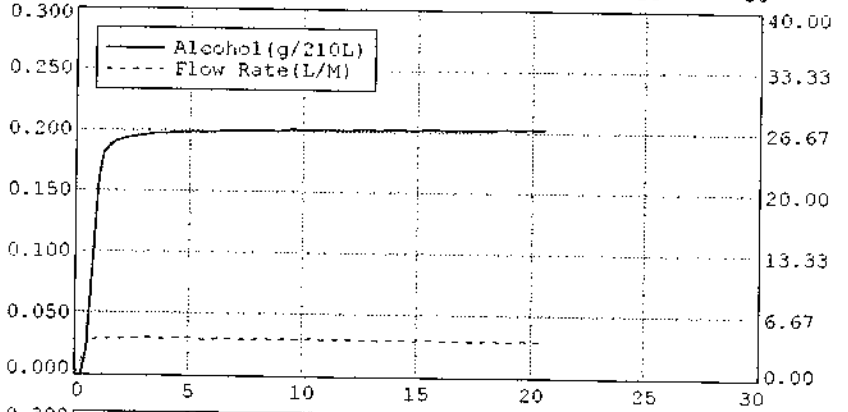
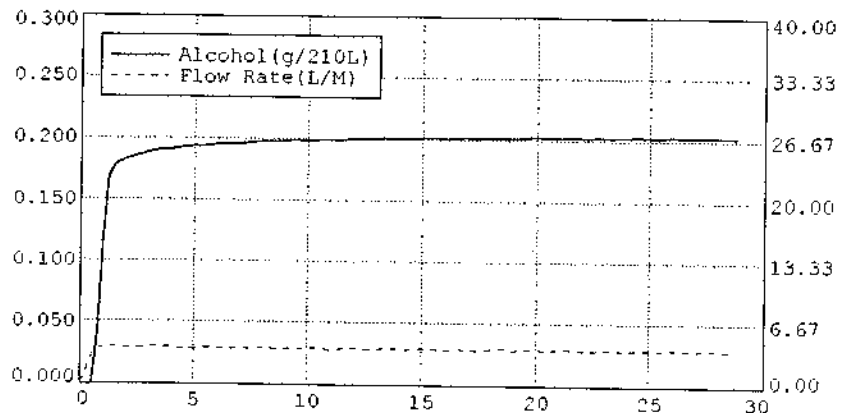
Date: 03/29/2017
 Time: 13:43:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: GUTH 16190
 EXPIRATION: 08/15/2018

BLANK TEST	0.000	13:46
INTERNAL STANDARD	VERIFIED	13:46
EXTERNAL STANDARD	0.204	13:47
BLANK TEST	0.000	13:47
EXTERNAL SPANDARD	0.204	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.204	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.204	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.204	13:52
BLANK TEST	0.000	13:53

Average = 0.2040
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

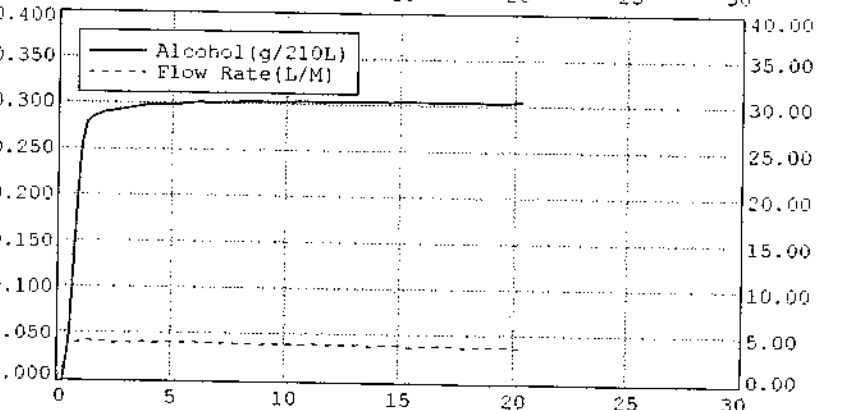
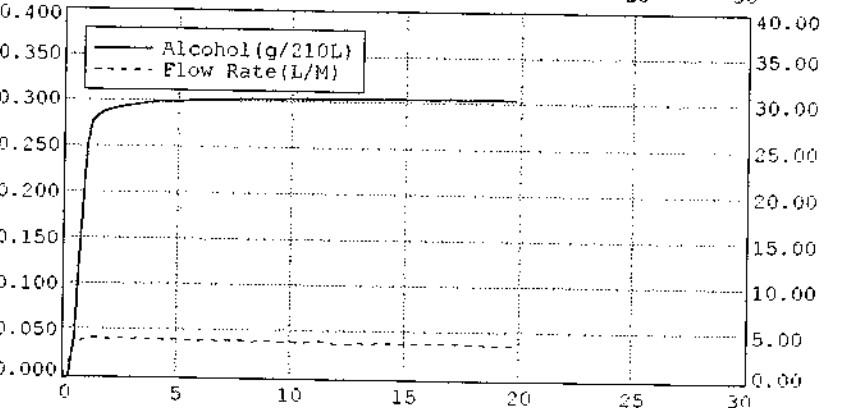
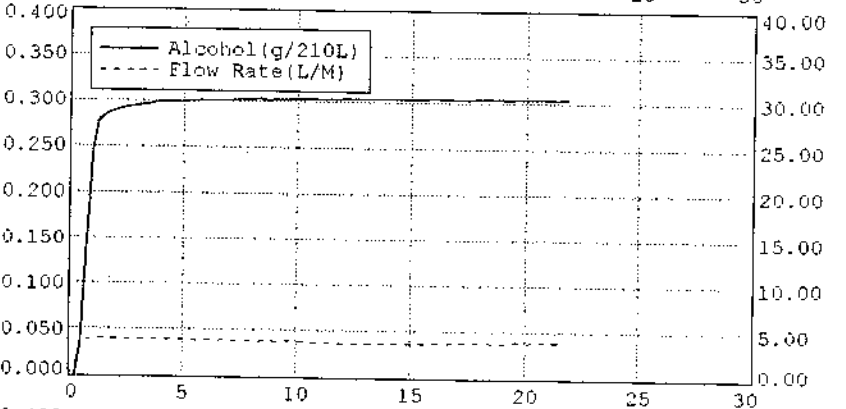
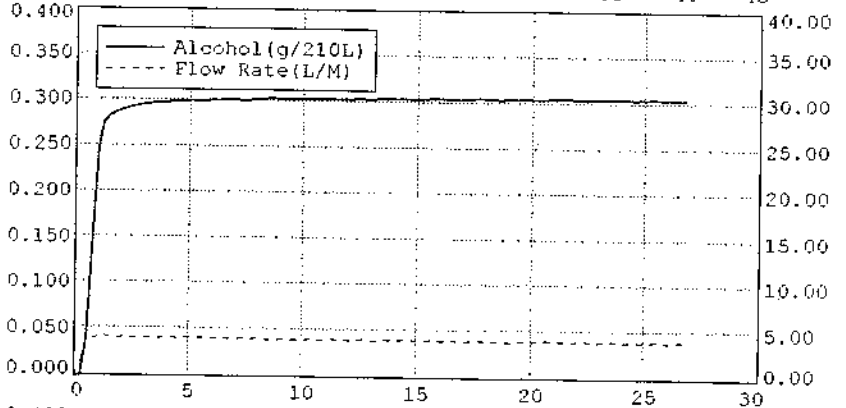
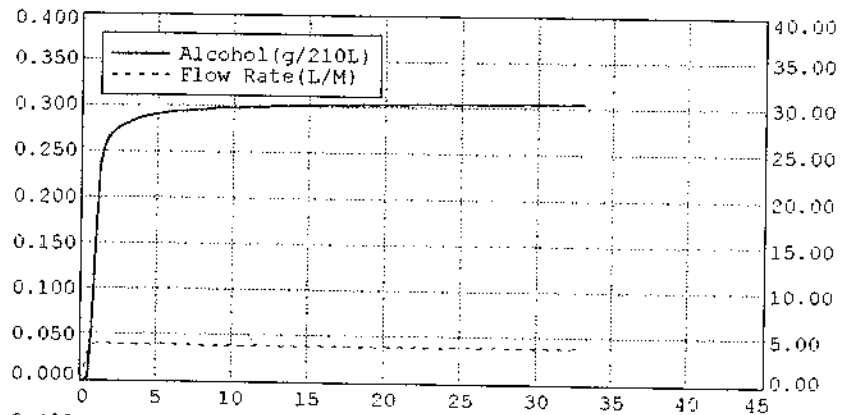
Date: 03/29/2017
 Time: 13:55:42

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:56
INTERNAL STANDARD	VERIFIED	13:56
EXTERNAL STANDARD	0.306	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.305	13:59
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.305	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.305	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.305	14:03
BLANK TEST	0.000	14:04

Average = 0.3052
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 03/30/2017
Time: 09:06:32

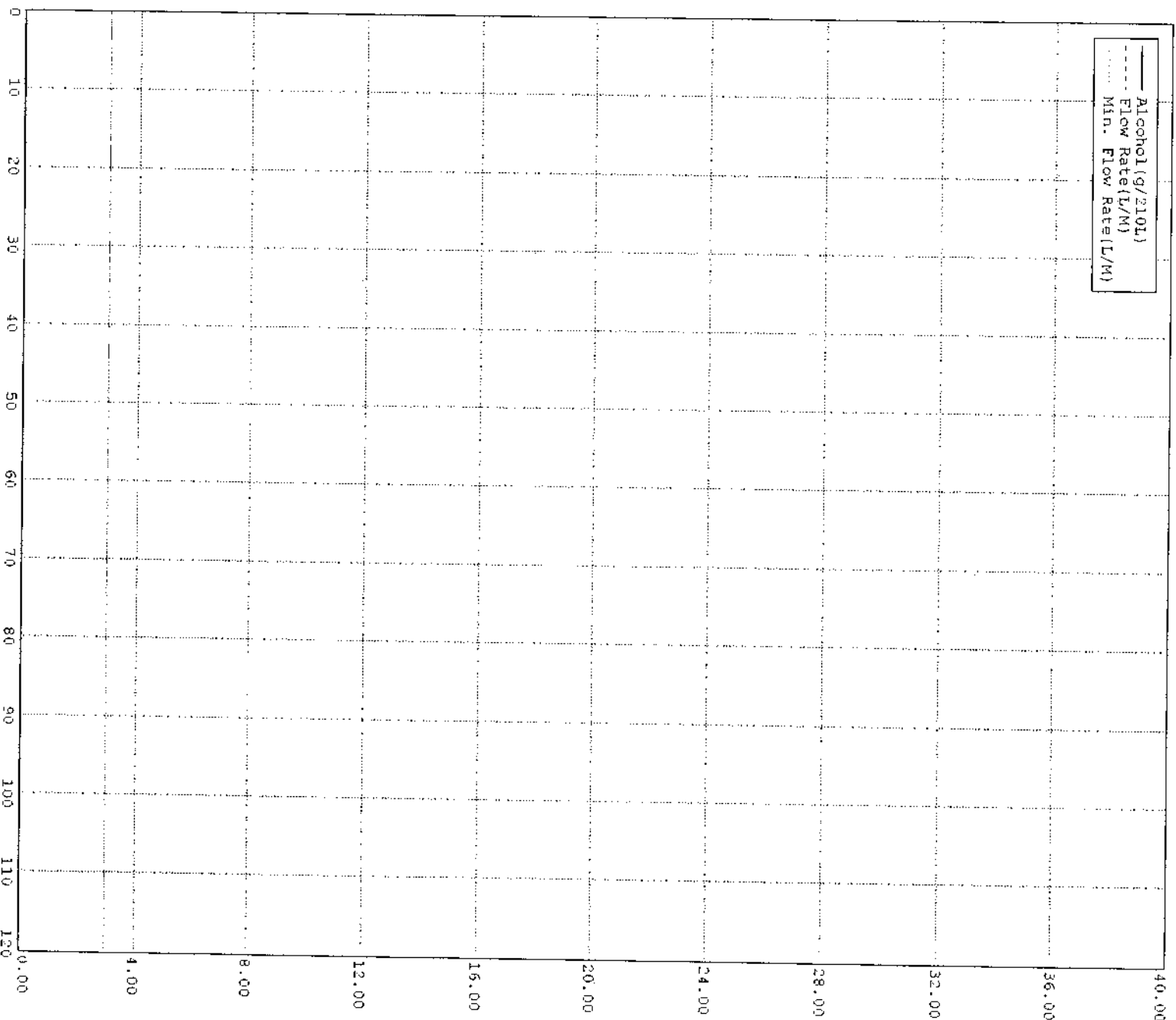
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	09:08
BLANK TEST	0.000	09:09
INTERNAL STANDARD	VERIFIED	09:09
EXTERNAL STANDARD	0.080	09:09
BLANK TEST	0.000	09:10
SUBJECT SAMPLE	INCOMPLETE	09:12



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 03/30/2017
Time: 09:19:03

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

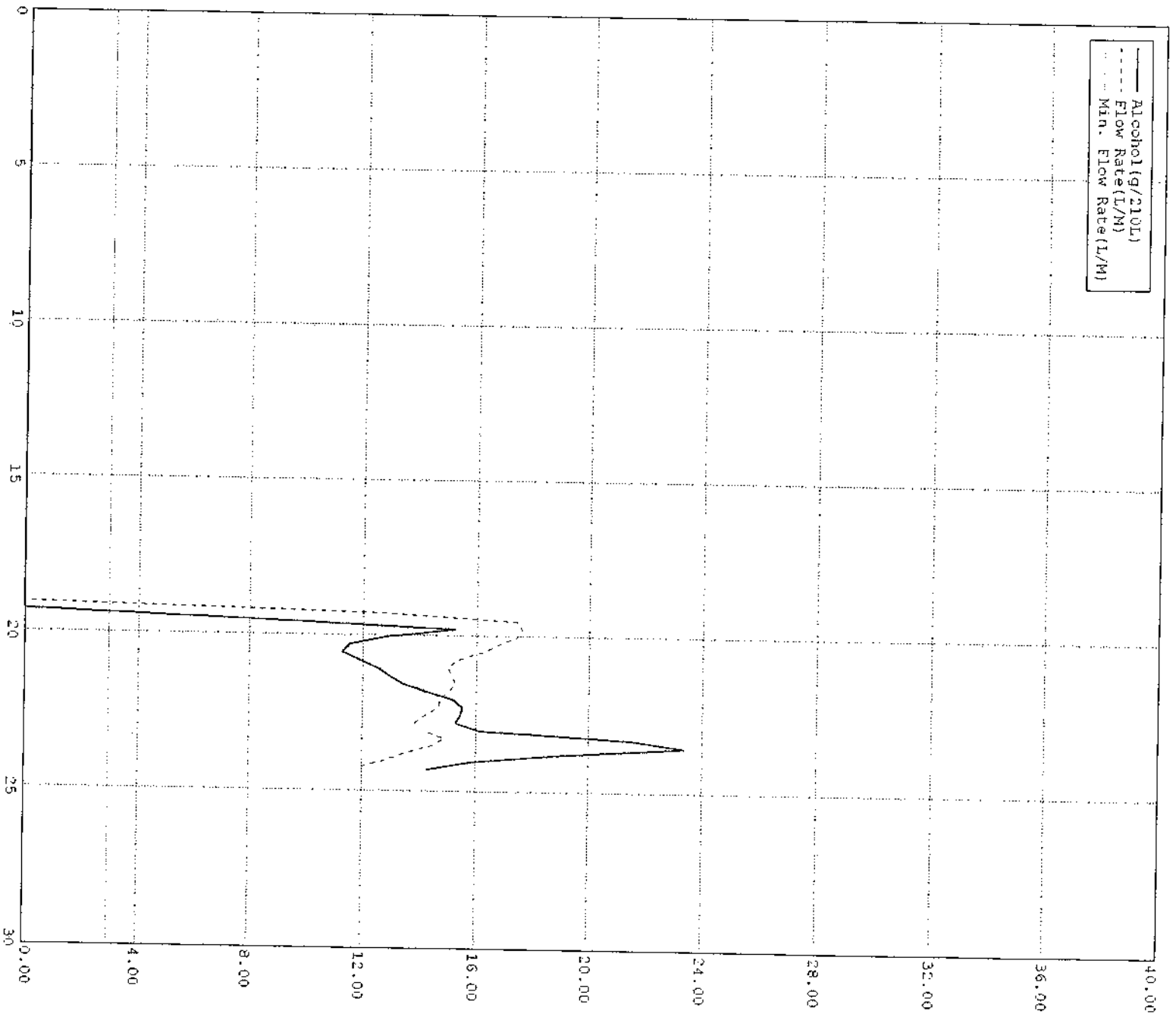
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.079
LOI #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	09:20
BLANK TEST	0.000	09:21
INTERNAL STANDARD	VERIFIED	09:21
EXTERNAL STANDARD	0.078	09:21
BLANK TEST	0.000	09:22
SUBJECT SAMPLE	INVALID	09:22

BSMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 03/30/2017
Time: 09:45:21

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

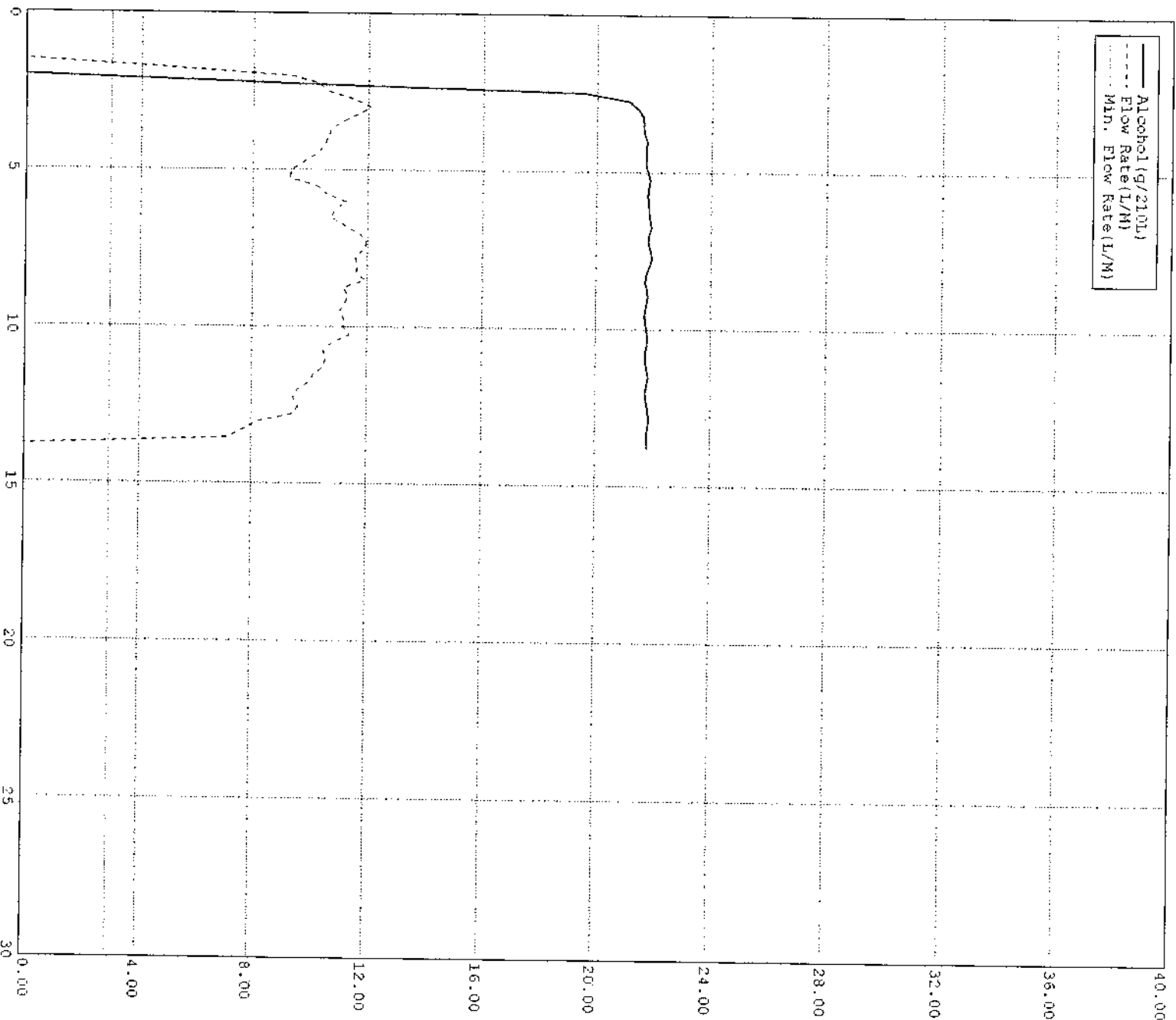
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK
BLANK TEST PASSED 09:46
INTERNAL STANDARD 0.000 09:46
Xq = 0.085 (0.31%) VERIFIED 09:46
EXTERNAL STANDARD 0.078 09:46
X[1] = 0.0785 (0.0001) (0.0032)
BLANK TEST 0.000 09:47
SUBJECT SAMPLE XXXX 09:48
X[1] = 0.1098 (-0.0179) (0.0003)

Interference Detected

Filter 2 Avg: 0.0007
Filter 3 Avg: 0.0025
BWB 3/30/17

BWB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 03/30/2017
Time: 09:50:46

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

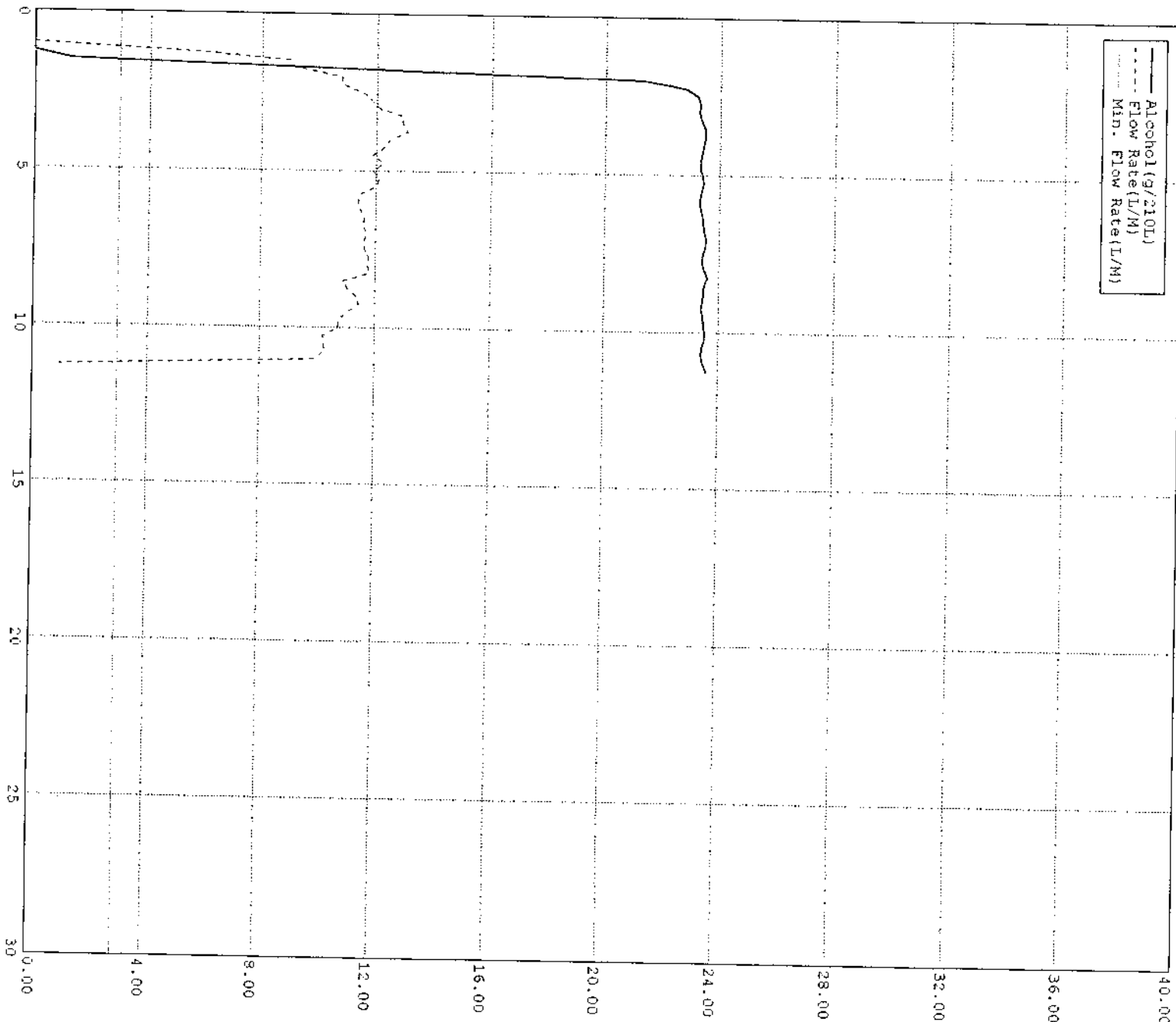
DEPT/AGENCY:
INTERFERENCE ISOPROPYL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	09:52
BLANK TEST	0.000	09:52
INTERNAL STANDARD	VERIFIED	09:53
Xq = 0.087 (1.22%)		
EXTERNAL STANDARD	0.079	09:53
X[1] = 0.0789 (0.0008)	(0.0027)	
BLANK TEST	0.000	09:54
SUBJECT SAMPLE	XXX	09:54
X[1] = 0.1182 (-0.0175)	(0.0008)	

Interference Detected

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100405

Date: 03/30/2017
Time: 09:56:39

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

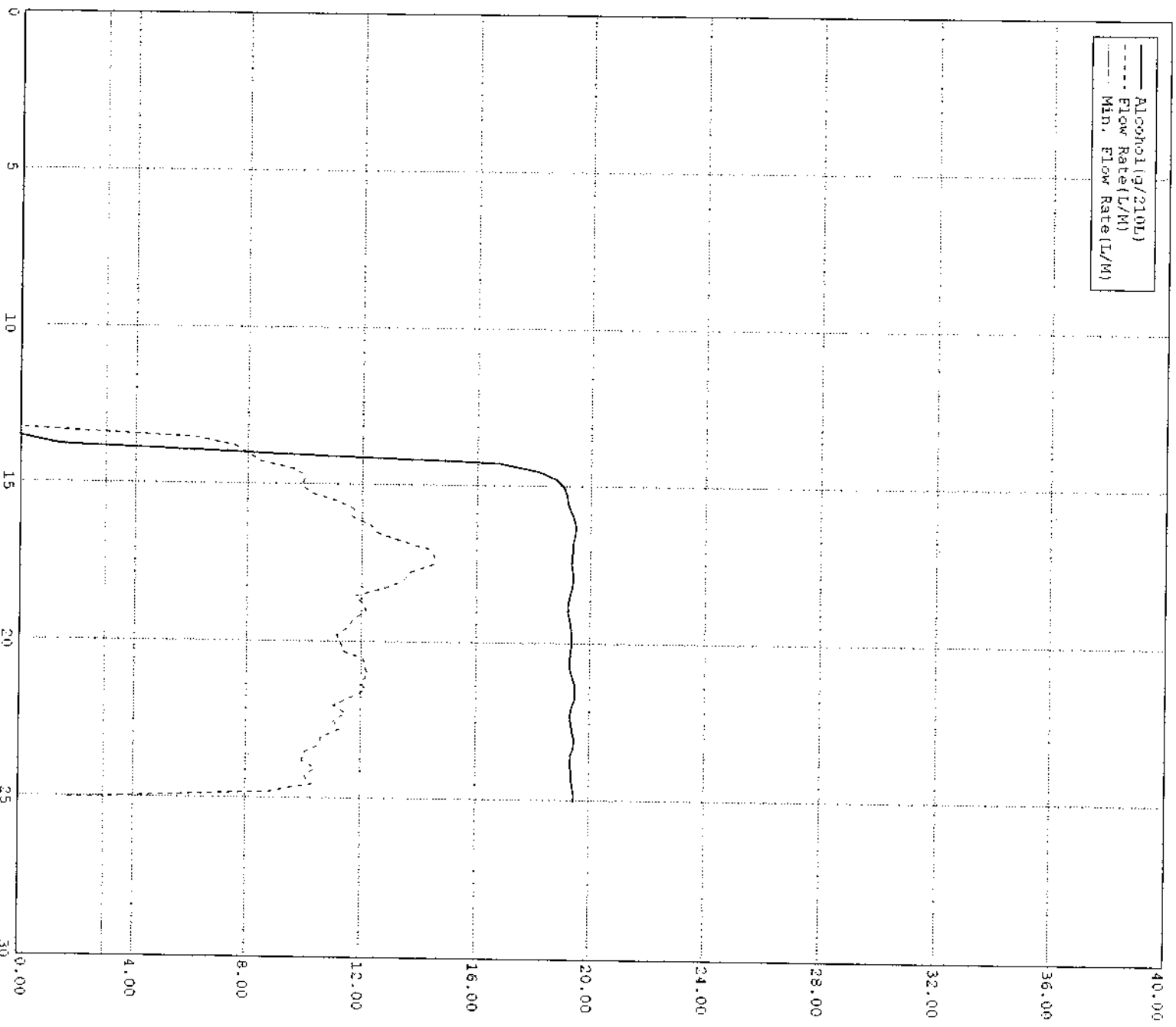
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	09:58
BLANK TEST	0.000	09:58
INTERNAL STANDARD	VERIFIED	09:58
Xq = 0.085 (0.10%)		
EXTERNAL STANDARD	0.079	09:58
X[1] = 0.0787 (0.0011)	(0.0018)	
BLANK TEST	0.000	09:59
SUBJECT SAMPLE (Vol=2.16L)	0.098	10:00
X[1] = 0.0980 (-0.0001)	(0.0001)	
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.079	10:01
X[1] = 0.0788 (0.0009)	(0.0022)	
BLANK TEST	0.000	10:02

BMNB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100405

Date: 03/30/2017
Time: 09:30:59

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

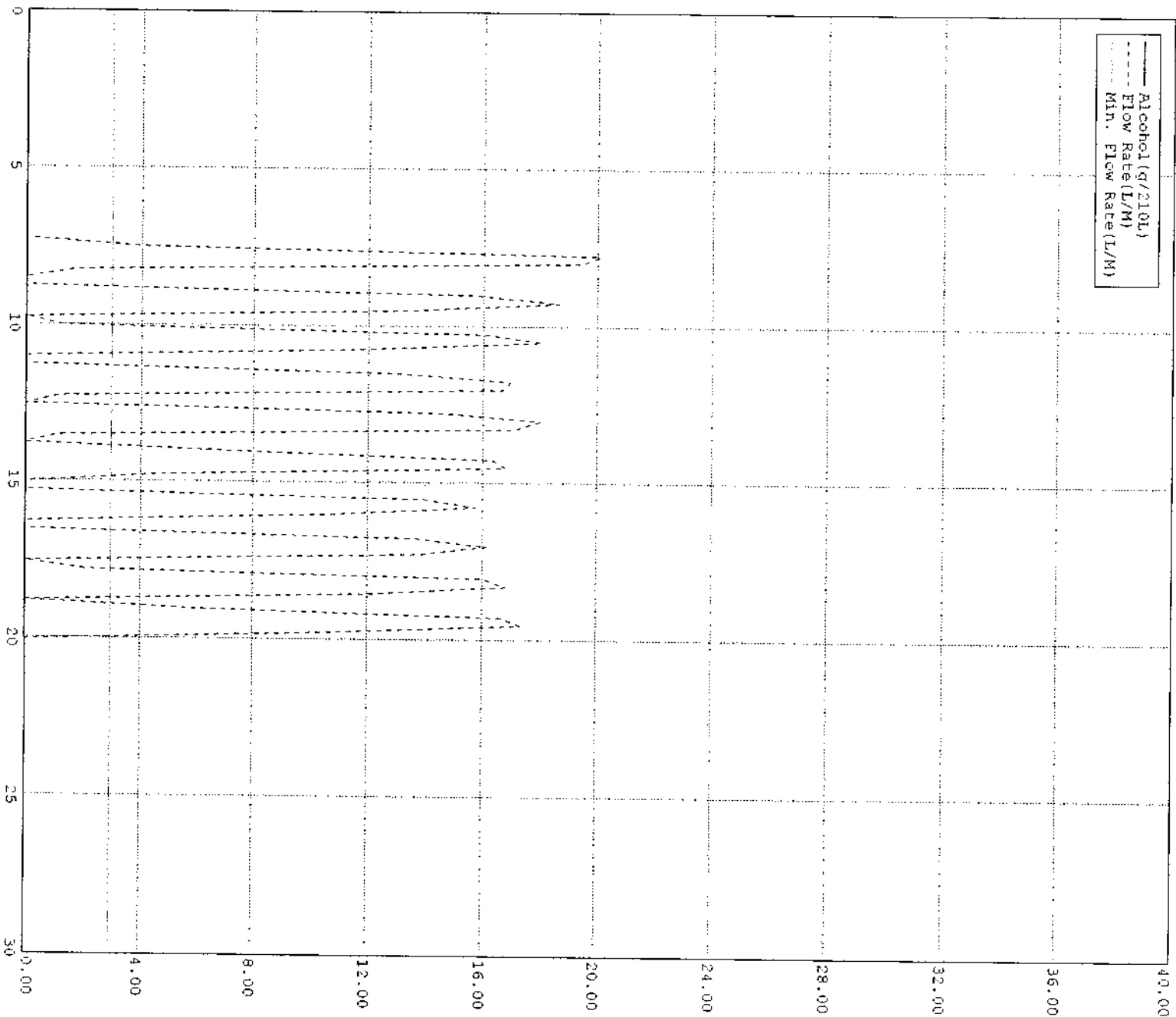
DEPT/AGENCY:
MAXIMUM ATTEMPTS EXCEEDED
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	09:32
BLANK TEST	0.000	09:32
INTERNAL STANDARD	VERIFIED	09:32
EXTERNAL STANDARD	0.079	09:32
BLANK TEST	0.000	09:33
SUBJECT SAMPLE	XXX	09:33

Maximum Attempts Exceeded

BRMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 03/30/2017
Time: 09:24:53

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

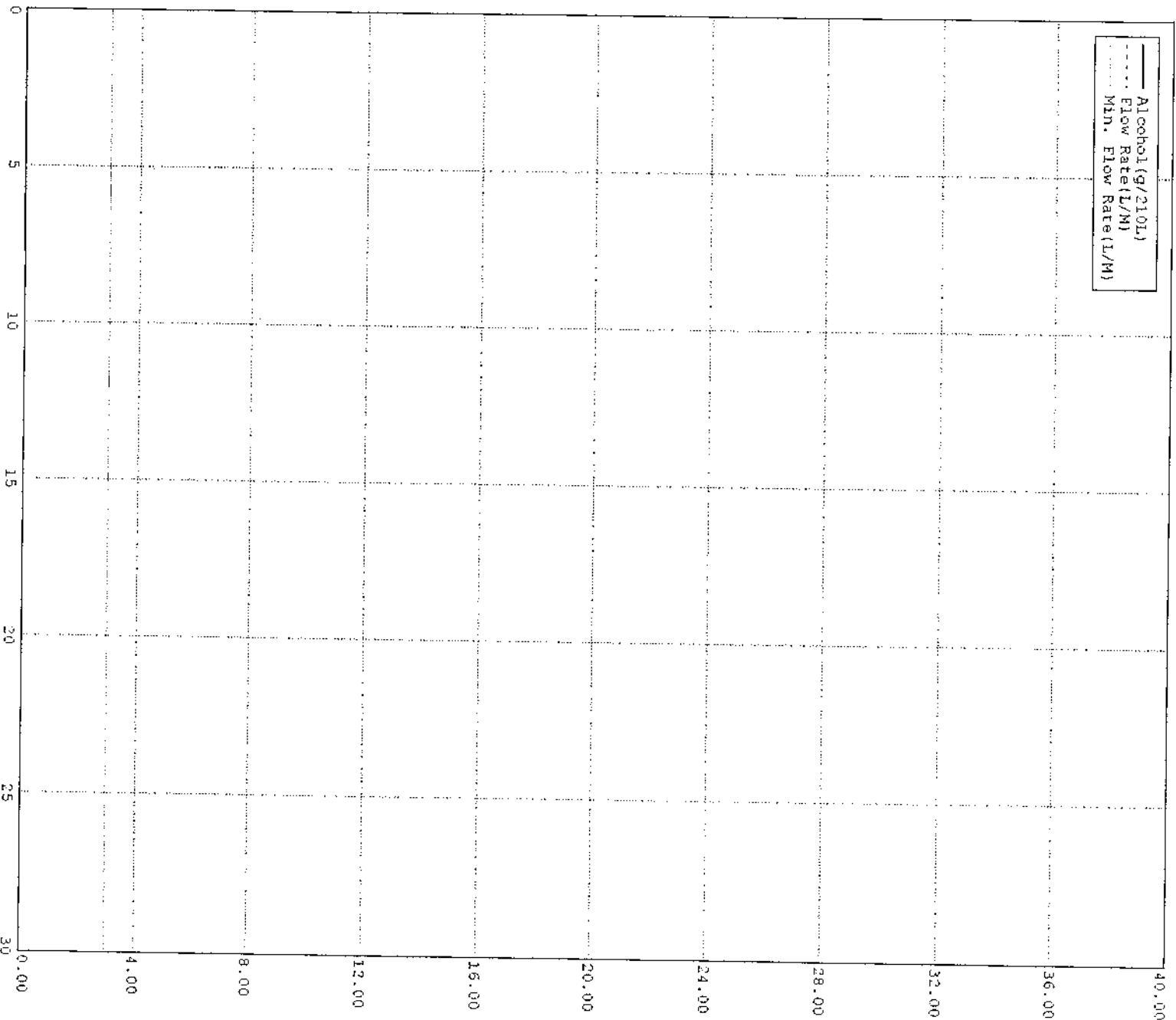
DEPT/AGENCY:
RFI
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK
BLANK TEST PASSED 09:25
INTERNAL STANDARD VERIFIED 09:26
EXTERNAL STANDARD 0.079 09:26
BLANK TEST 0.000 09:27

RFI DETECTED

Alcohol (g/210L)
Flow Rate (L/M)
Min. Flow Rate (L/M)



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 03/30/2017
Time: 10:22:55

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 29.43: 0.079
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	10:24
BLANK TEST	0.000	10:24
INTERNAL STANDARD	VERIFIED	10:24
EXTERNAL STANDARD	0.079	10:24
BLANK TEST	0.000	10:25
SUBJECT SAMPLE (Vol=1.70L)	0.000	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.079	10:27
BLANK TEST	0.000	10:28

ESMB

