

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 100410 Analyst Brandi Barnett Start Date 11/30/16

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 1.7 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 Aicgas Lot AG608501 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 DR6267 Date Calibrated 3/3/16

vi. 0.300g/210L Mnf Guth Lot 15170 Exp 1/20/17

1. Simulator S/N DR4176 Date Calibrated 3/3/16

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 DR4162 Date Calibrated 3/2/16

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

1. Simulator S/N DR4163 Date Calibrated 3/2/16

iii. Negative Control - Mnf Guth Lot 16160 Level 0.100 Exp 7/19/18

1. Simulator S/N SD1176 Date Calibrated 3/4/16

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 12/1/16

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 11/30/2016
Time: 08:26:04

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 = 44.5°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.67 V PASSED
(1.01 V - 2.35 V)
Cooler Voltage = 1.72 V PASSED
(1.03 V - 2.41 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 542 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.243 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.004 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 PASSED
Xq = 0.087 0.40% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100410

Date: 11/30/2016
Time: 8:43 AM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 45.3°C

Current Barometer 29.2 in
Volume (Ltr) 1.44

Settings

Lamp: 1.67 V
Bias: 80 V
Cooler: 1.72 V
Chopper: 527 Hz

Voltages (V)

Flow: 1.05 V
Detector: -0.080 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 06/01/2011
Time: 09:04:36

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: REPC0100
BOTTLE #: 10003
EXPIRATION: 09/08/2012

Ca	=	0.1000			
CAL	=	0.973587	0.800	<=	CAL < 1.200
b1	=	0.0004	0.0000	<=	b1 < 0.0040
b2	=	0.0066	0.0010	<=	b2 < 0.0100
b3	=	0.0000	0.0000	<=	b3 < 0.0040
Xq	=	0.0869	0.0500	<=	Xq < 0.2000
a21	=	1.207265	1.050	<=	a21 < 1.300
a31	=	0.452869	0.300	<=	a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DAYMASTER dmt: 100410

Date: 11/30/2016
Time: 08:50:34

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

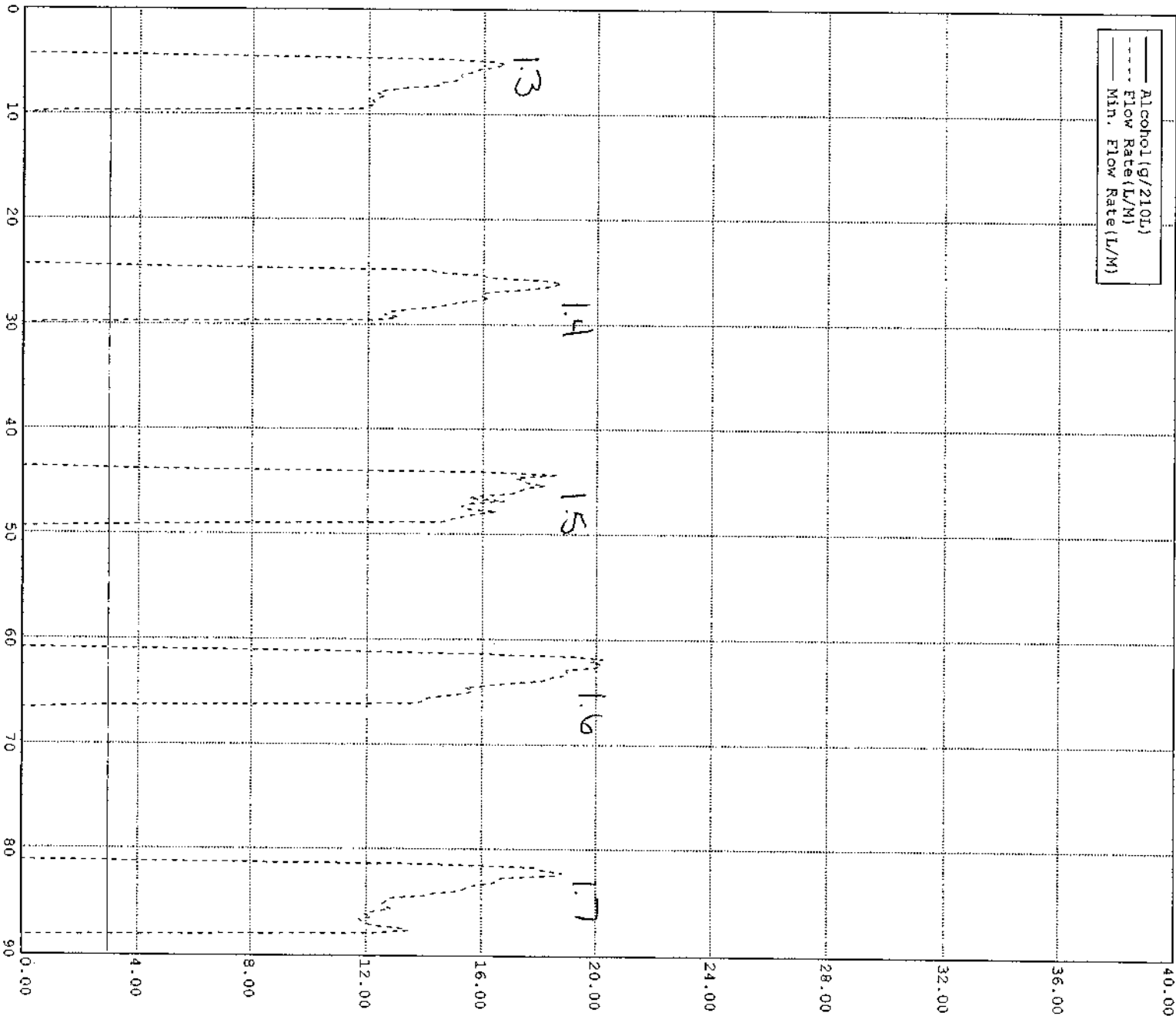
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.22: 0.078
LOT #: AG688504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	08:51
BLANK TEST	0.000	08:51
INTERNAL STANDARD	VERIFIED	08:51
EXTERNAL STANDARD	0.077	08:52
BLANK TEST	0.000	08:52
SUBJECT SAMPLE (Vol=1.61L)	0.000	08:54
BLANK TEST	0.000	08:55
EXTERNAL STANDARD	0.076	08:55
BLANK TEST	0.000	08:56

Handwritten signature: BMB



LINEARITY CHECK

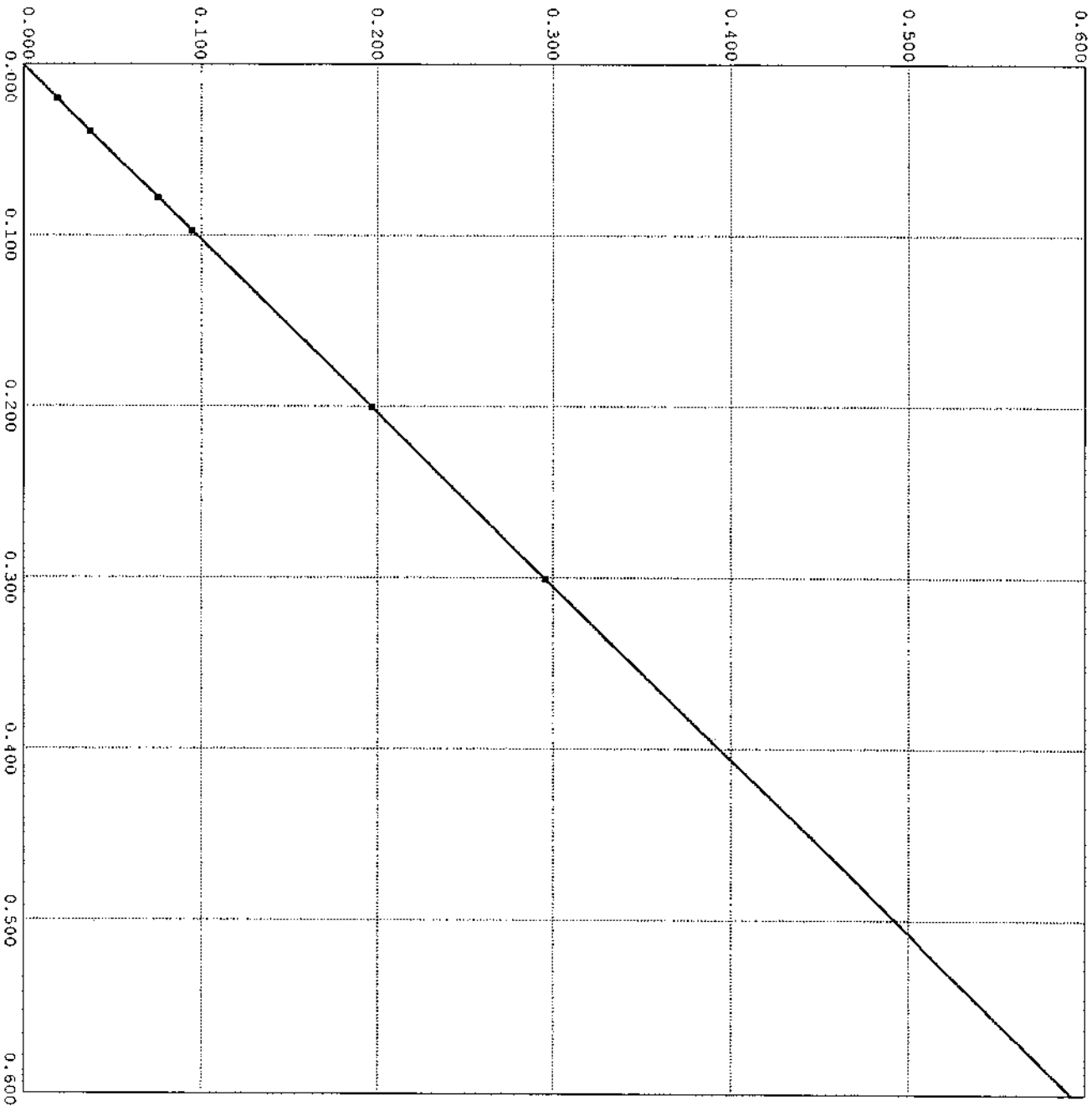
Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 11/30/2016
Time: 09:47:05

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.039	0.0386	0.0005
0.078	0.0766	0.0005
0.097	0.0954	0.0005
0.200	0.1976	0.0005
0.300	0.2962	0.0008

SLOPE = 0.987763
R² = 0.999995



BMB

LINEARITY CHECK: Control Test 1

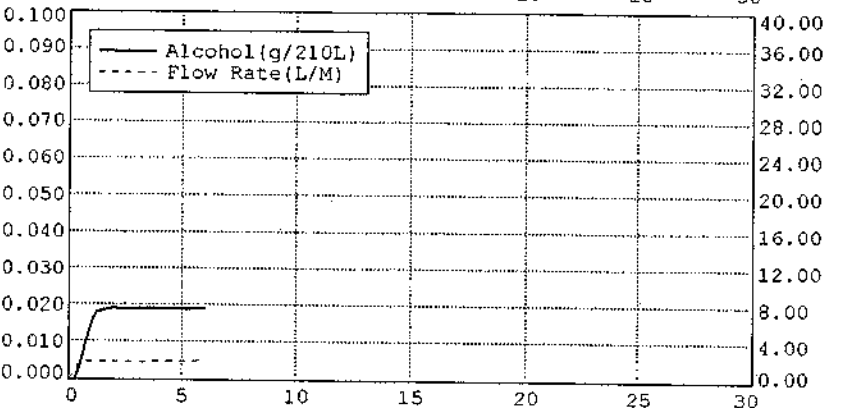
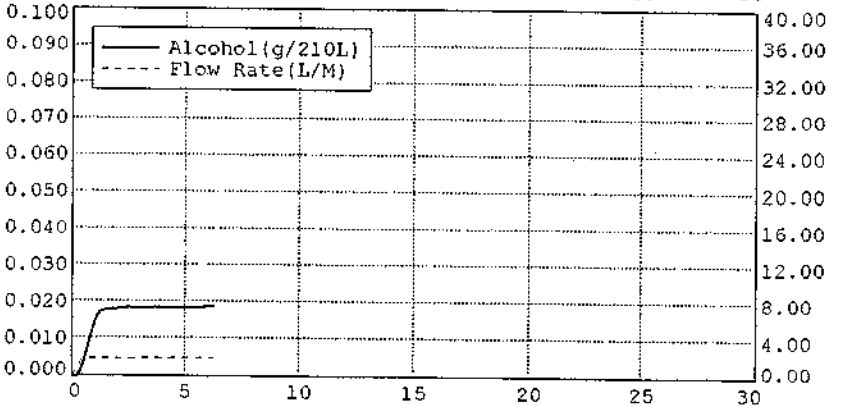
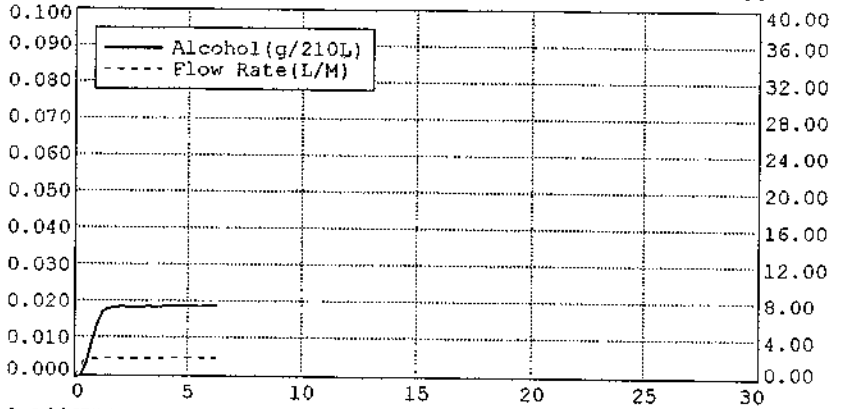
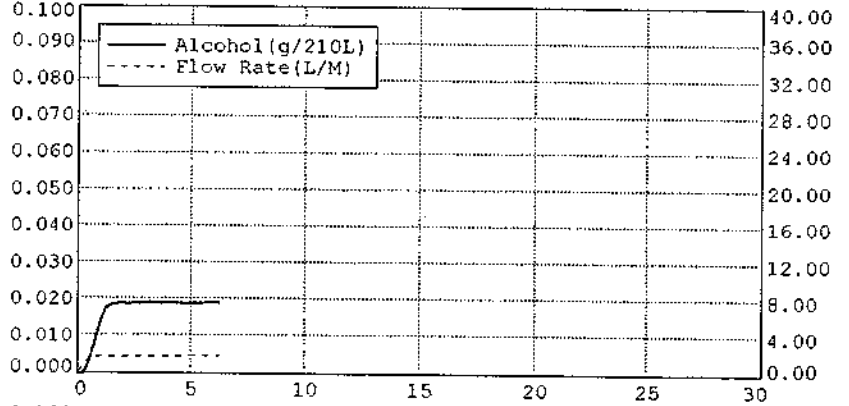
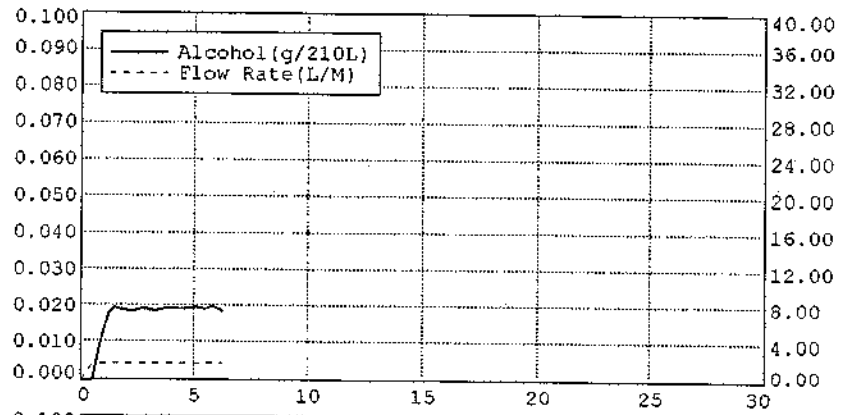
Alaska Department of Public Safety
 DATAMASTER dmt: 100410

Date: 11/30/2016
 Time: 09:47:07

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 29.21: 0.020
 LOT #: 02915020A2
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 284 psi

BLANK TEST	0.000	10:24
INTERNAL STANDARD	VERIFIED	10:25
EXTERNAL STANDARD	0.020	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.020	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.020	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.019	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.020	10:29
BLANK TEST	0.000	10:30

Average = 0.0198
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100410

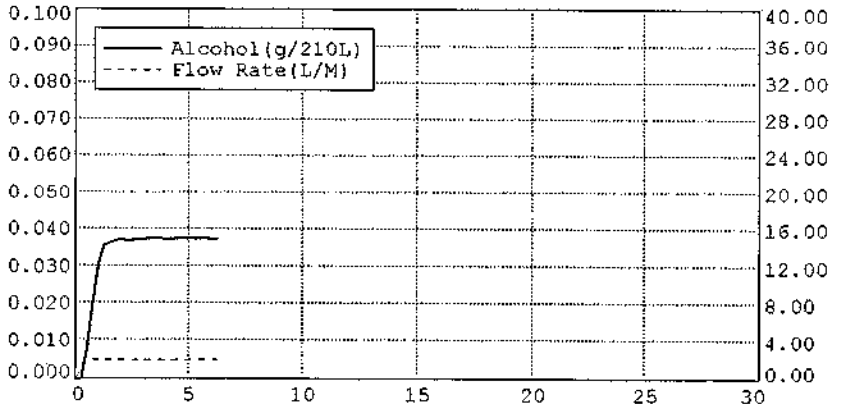
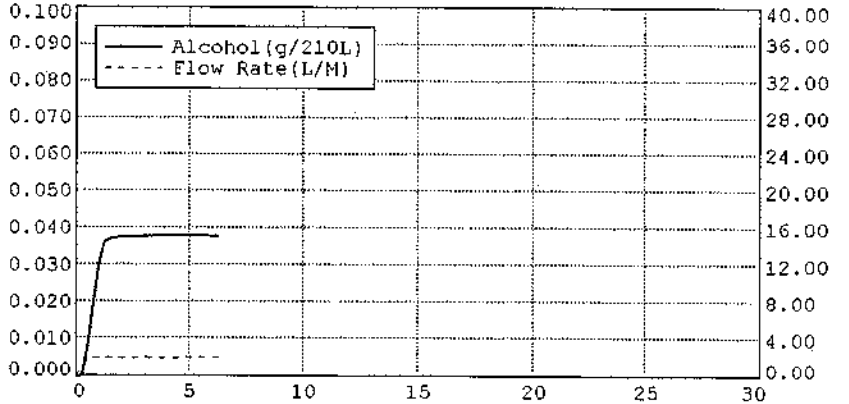
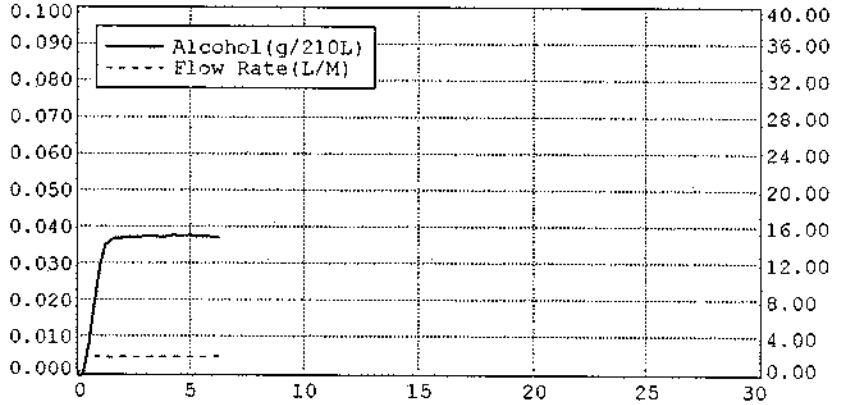
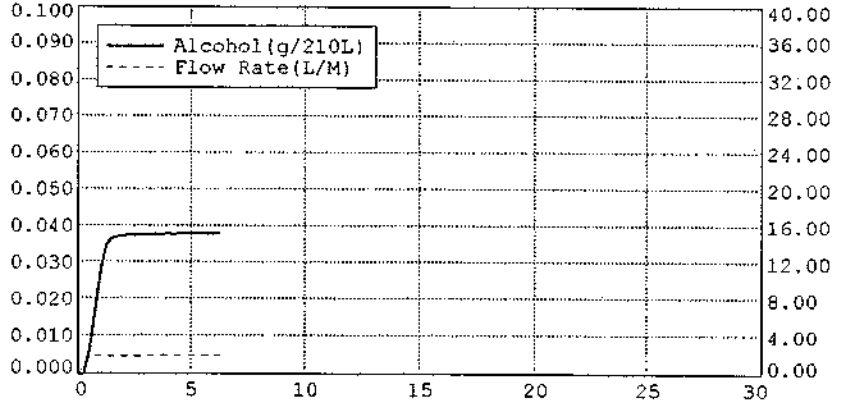
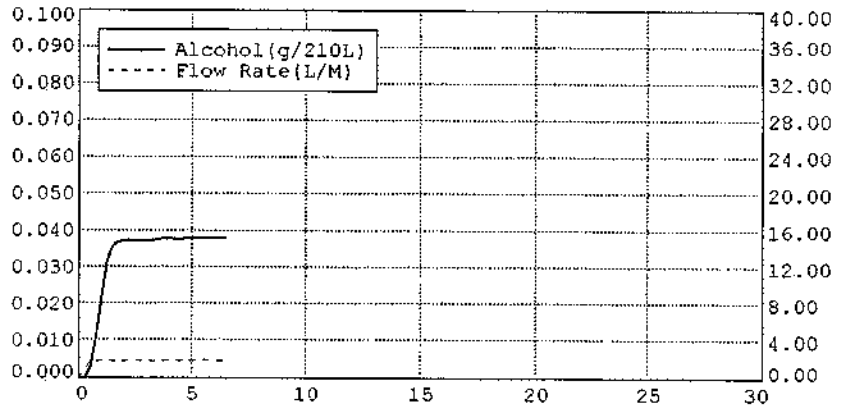
Date: 11/30/2016
 Time: 10:38:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.21: 0.039
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 149 psi

BLANK TEST	0.000	10:40
INTERNAL STANDARD	VERIFIED	10:40
EXTERNAL STANDARD	0.039	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.039	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.038	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.039	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.038	10:44
BLANK TEST	0.000	10:45

Average = 0.0386
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100410

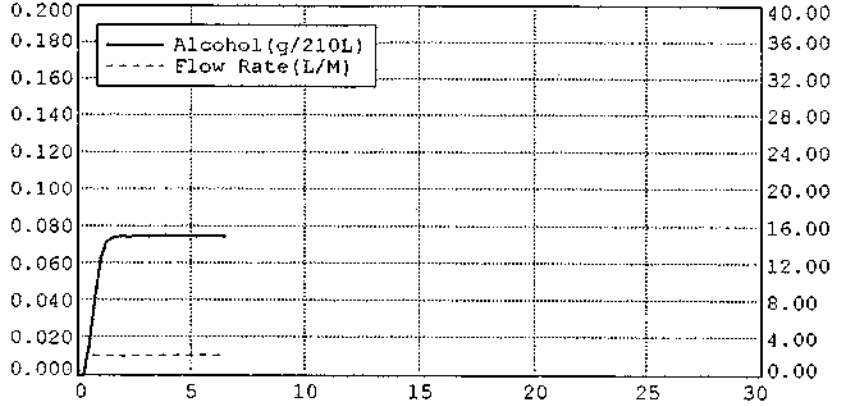
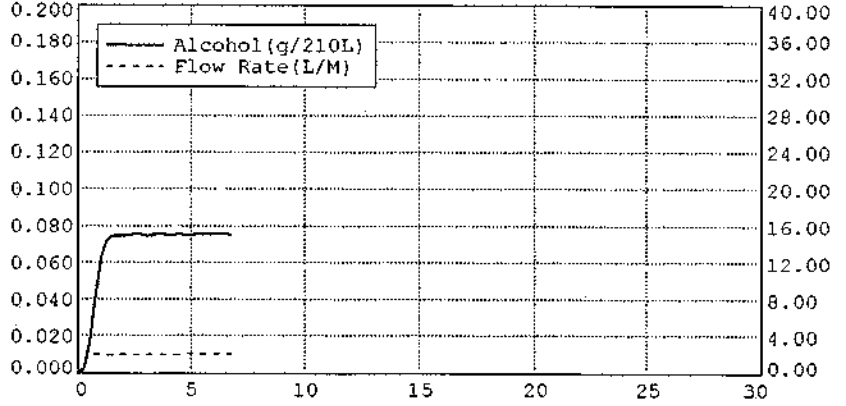
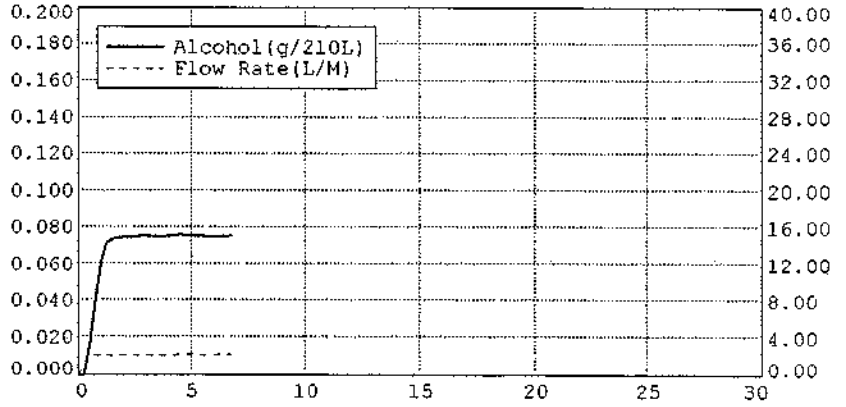
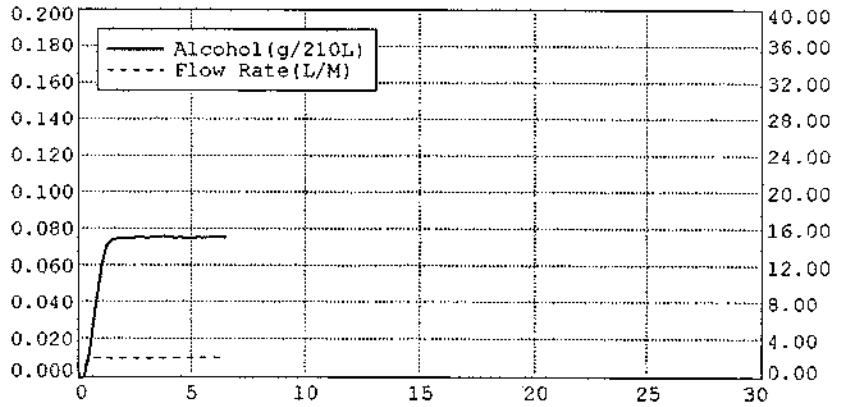
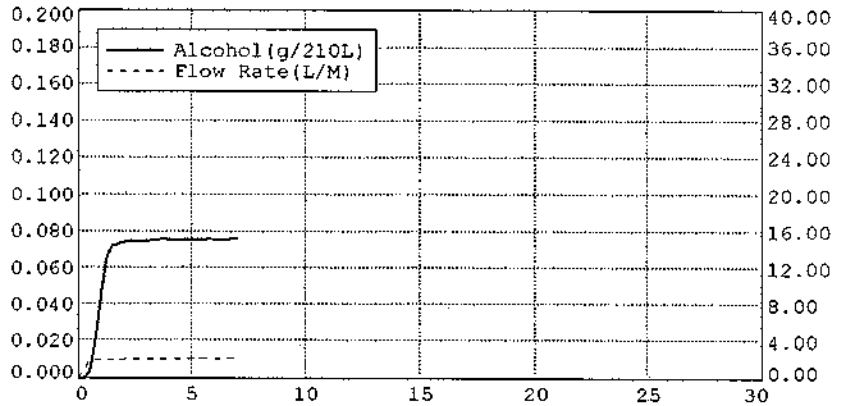
Date: 11/30/2016
 Time: 13:01:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.16: 0.078
 LOT #: AG608504
 EXPIRATION: 03/25/2018
 TANK PRESSURE: 460 psi

BLANK TEST	0.000	13:02
INTERNAL STANDARD	VERIFIED	13:02
EXTERNAL STANDARD	0.077	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.077	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.077	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.076	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.076	13:07
BLANK TEST	0.000	13:08

Average = 0.0766
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100410

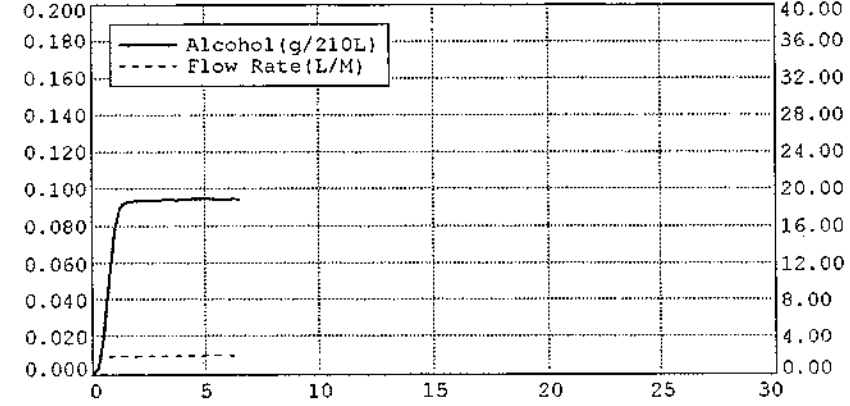
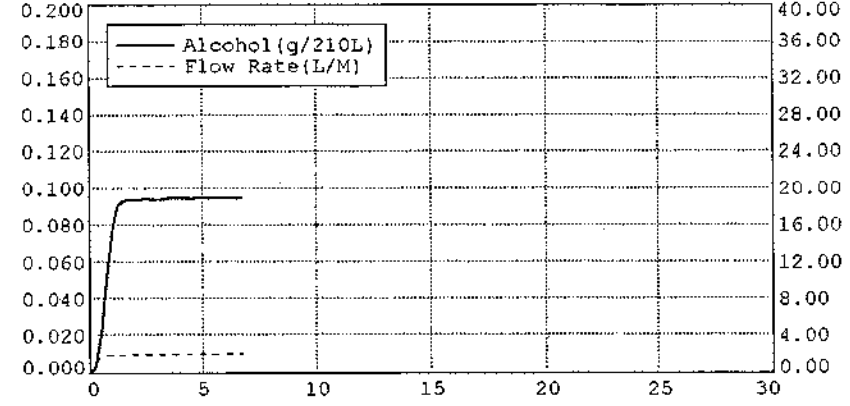
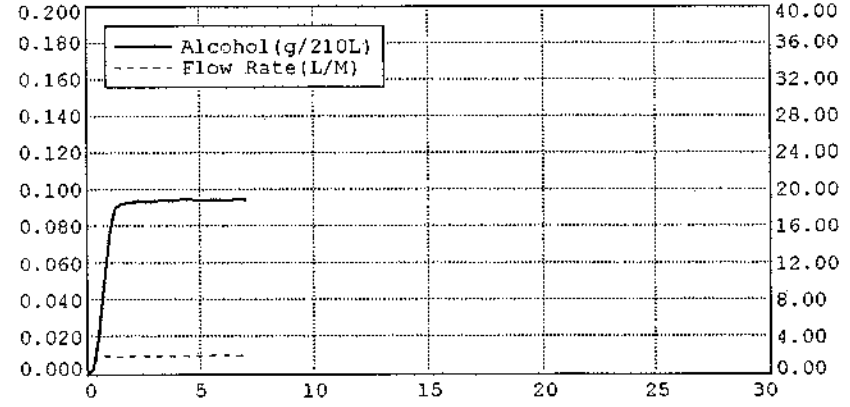
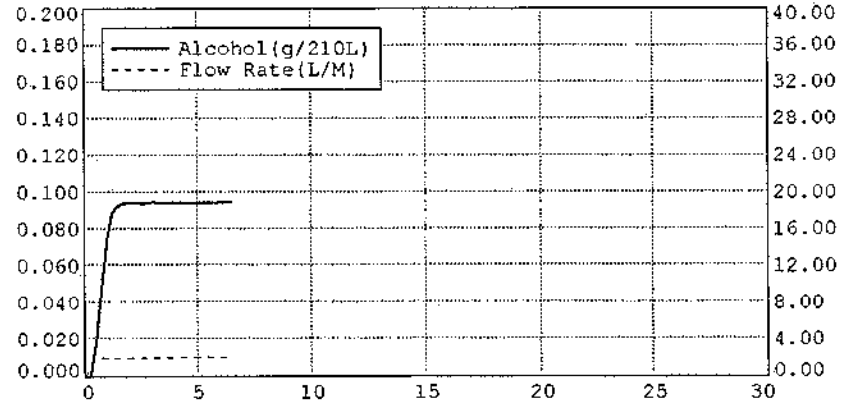
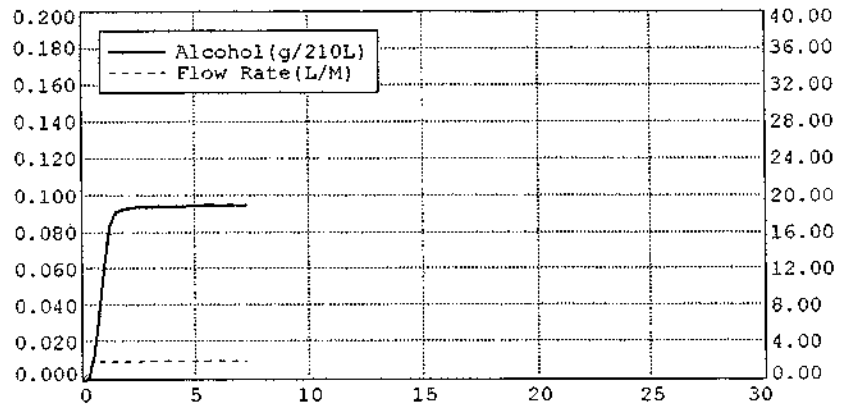
Date: 11/30/2016
 Time: 13:11:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.16: 0.097
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 322 psi

BLANK TEST	0.000	13:12
INTERNAL STANDARD	VERIFIED	13:12
EXTERNAL STANDARD	0.096	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.095	13:14
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.095	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.096	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.095	13:17
BLANK TEST	0.000	13:18

Average = 0.0954
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100410

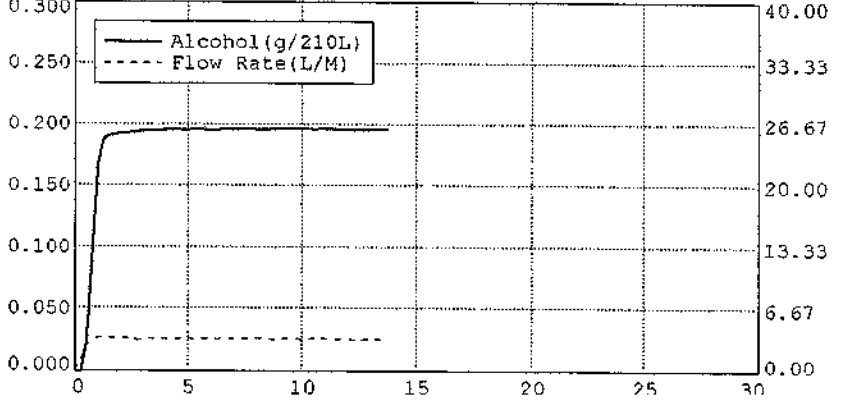
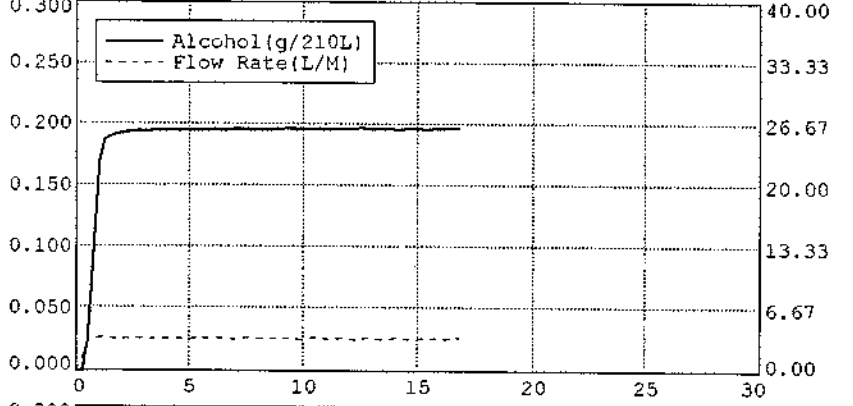
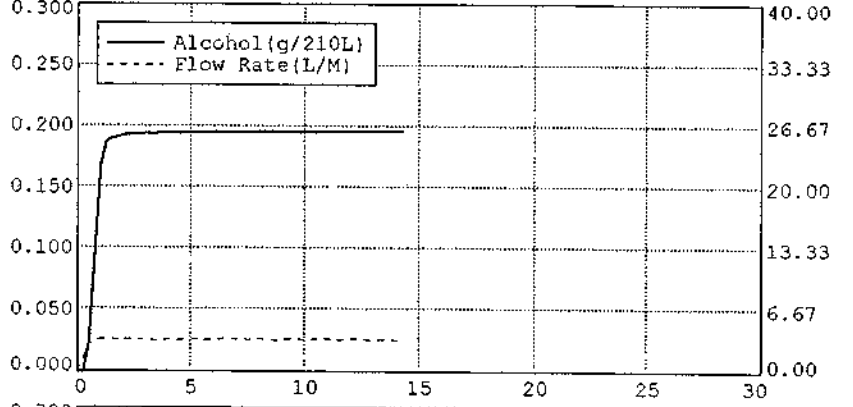
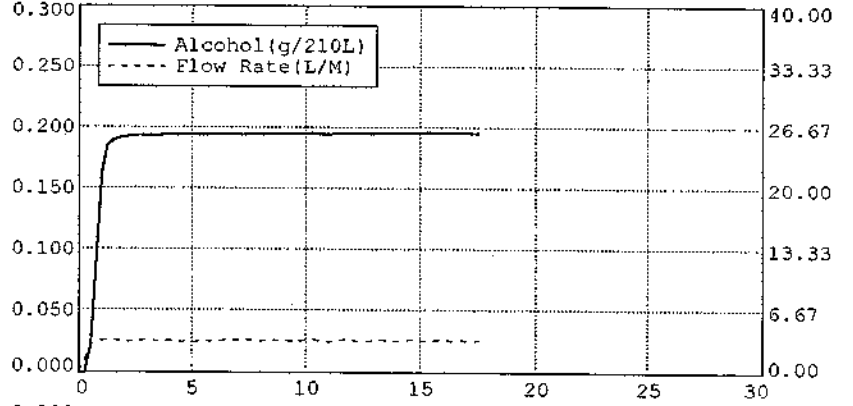
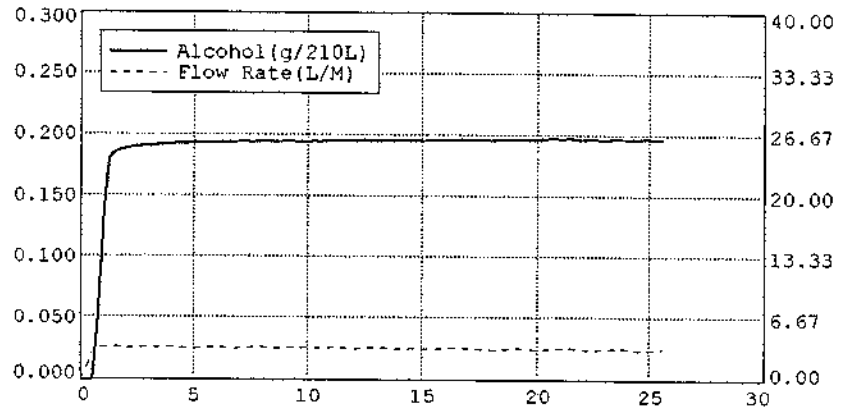
Date: 11/30/2016
 Time: 13:23:22

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:24
EXTERNAL STANDARD	0.198	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.197	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.197	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.198	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.198	13:30
BLANK TEST	0.000	13:31

Average = 0.1976
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100410

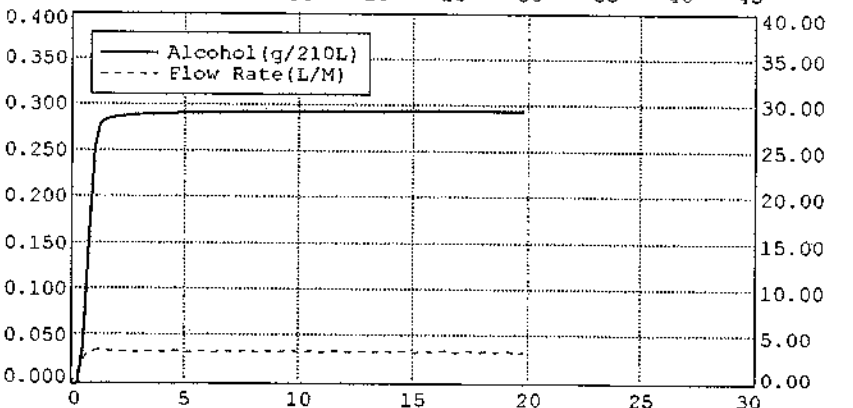
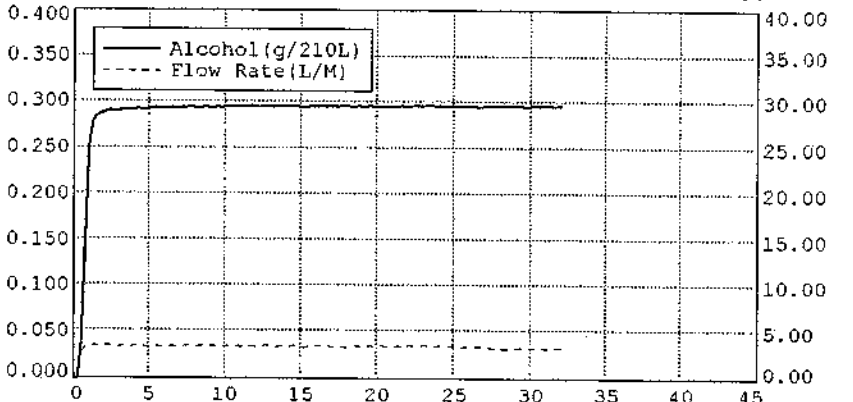
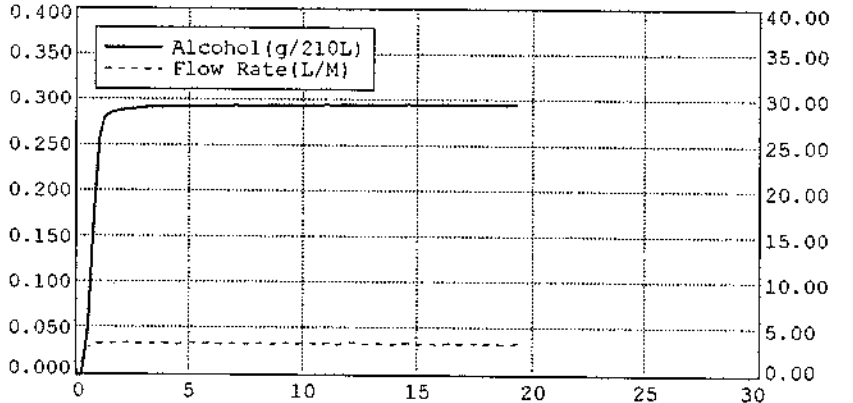
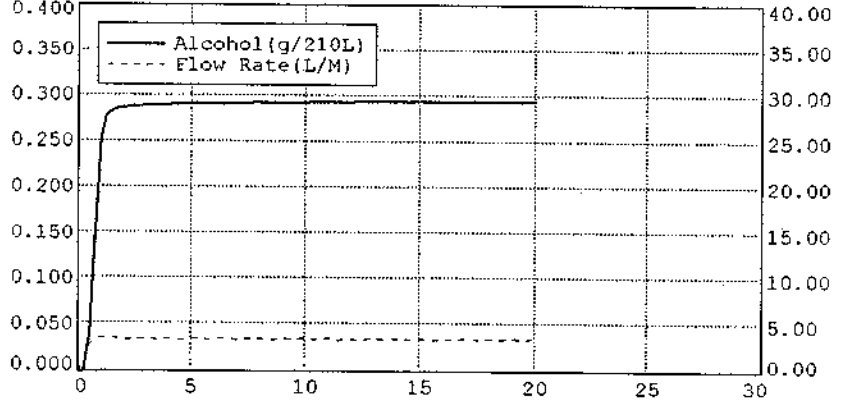
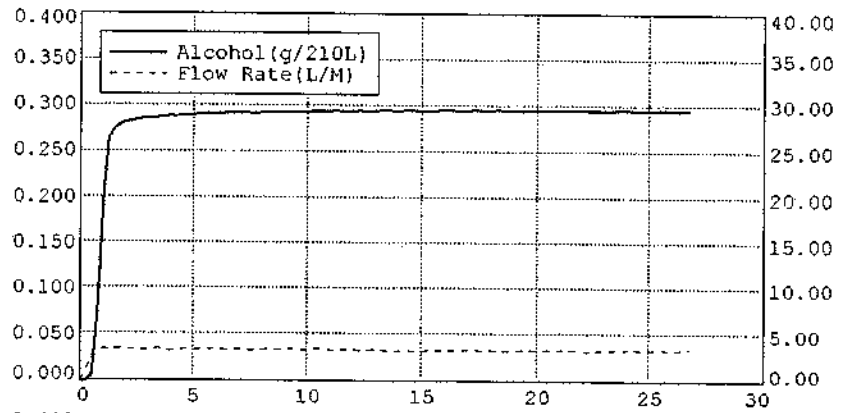
Date: 11/30/2016
 Time: 13:33:19

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:34
INTERNAL STANDARD	VERIFIED	13:34
EXTERNAL STANDARD	0.297	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.296	13:36
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.296	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.297	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.295	13:40
BLANK TEST	0.000	13:41

Average = 0.2962
 Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100410

Date: 11/30/2016
Time: 13:45:29

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

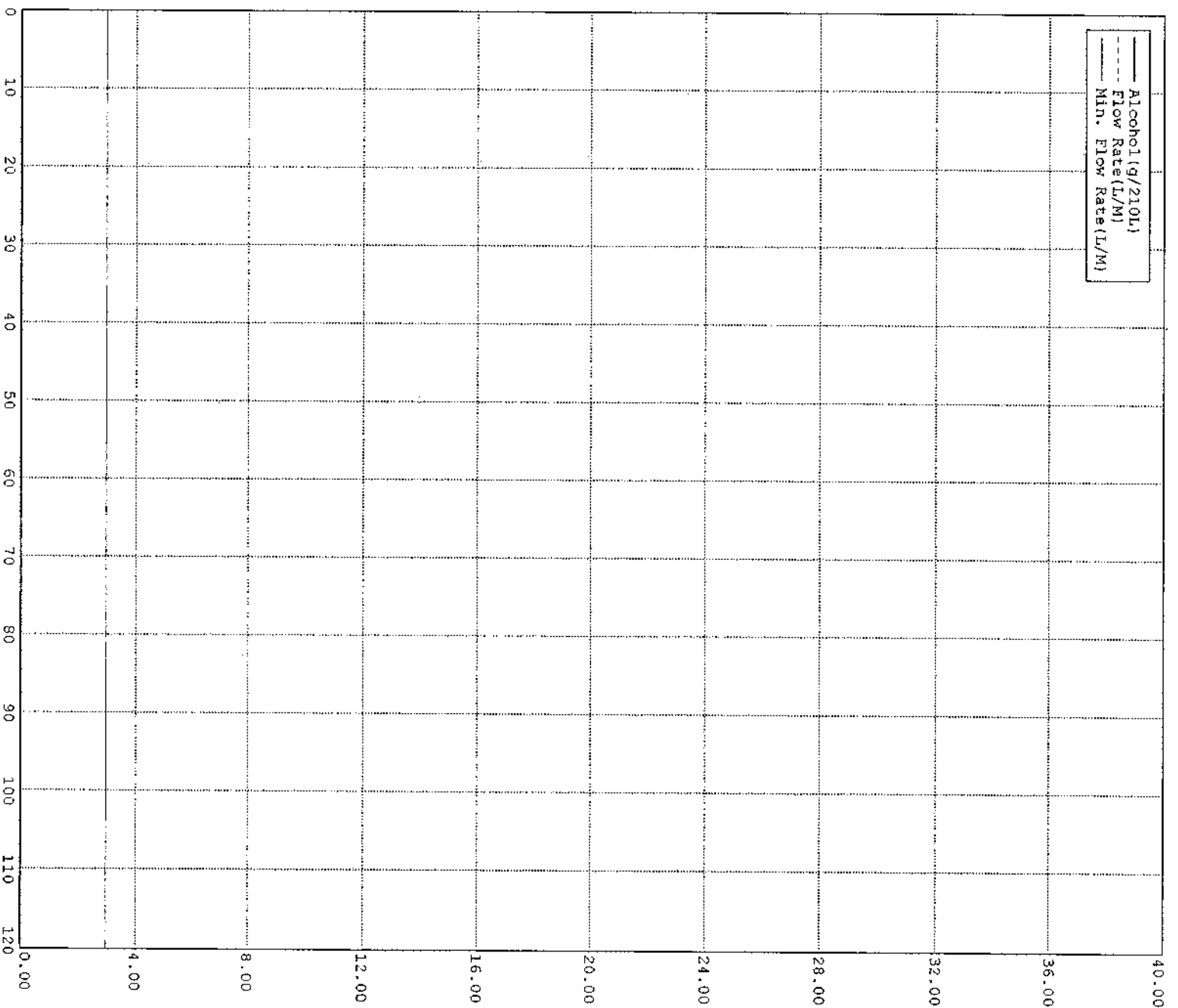
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.12: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	13:46
BLANK TEST	0.000	13:46
INTERNAL STANDARD	VERIFIED	13:46
EXTERNAL STANDARD	0.076	13:47
BLANK TEST	0.000	13:48
SUBJECT SAMPLE	INCOMPLETE	13:50

BBMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 11/30/2016
Time: 13:52:28

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

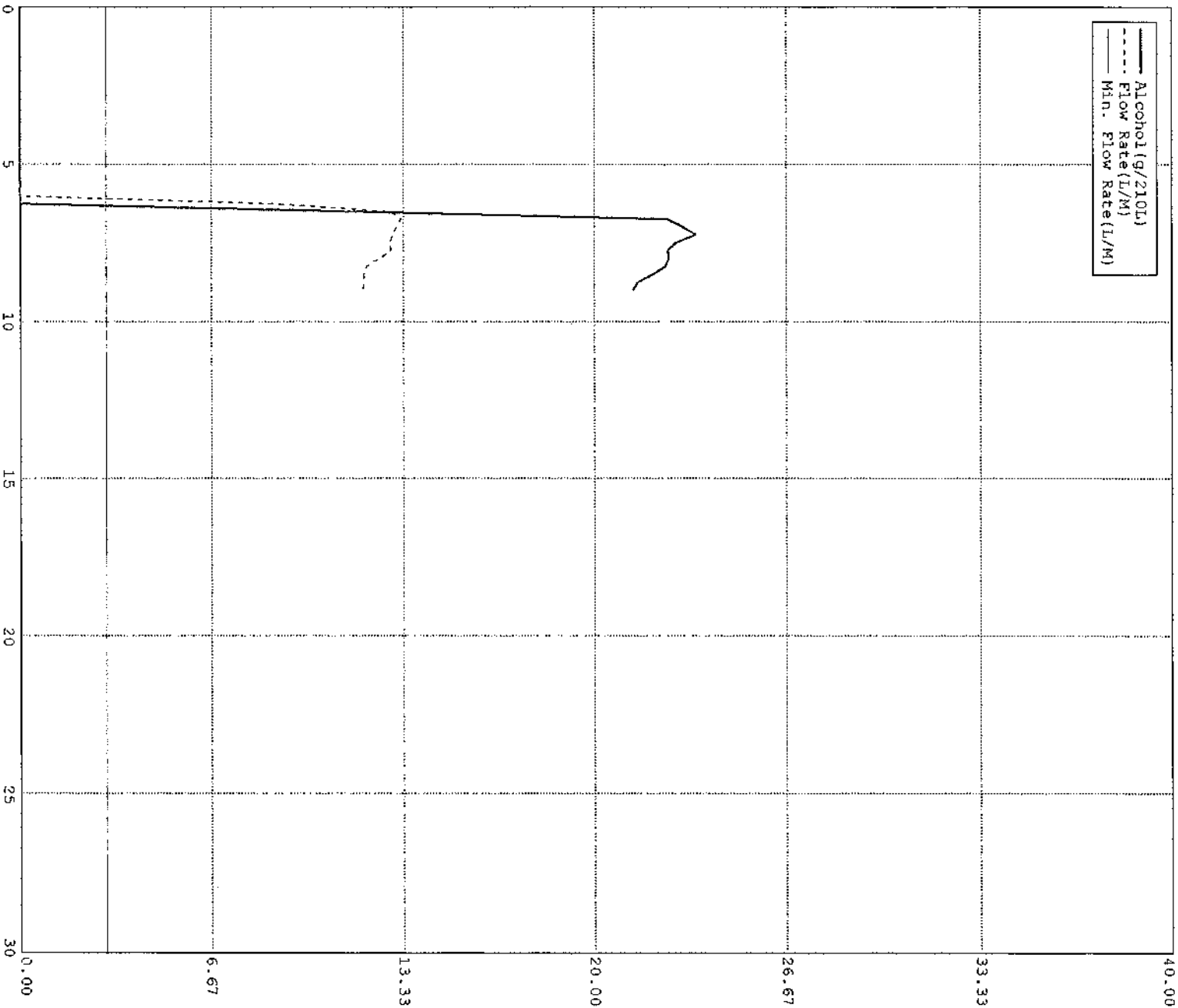
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.13: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	13:53
BLANK TEST	0.000	13:54
INTERNAL STANDARD	VERIFIED	13:54
EXTERNAL STANDARD	0.076	13:54
BLANK TEST	0.000	13:55
SUBJECT SAMPLE	INVALID	13:56

BMB



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100410

Date: 12/01/2016
Time: 09:01:04

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 29.04: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

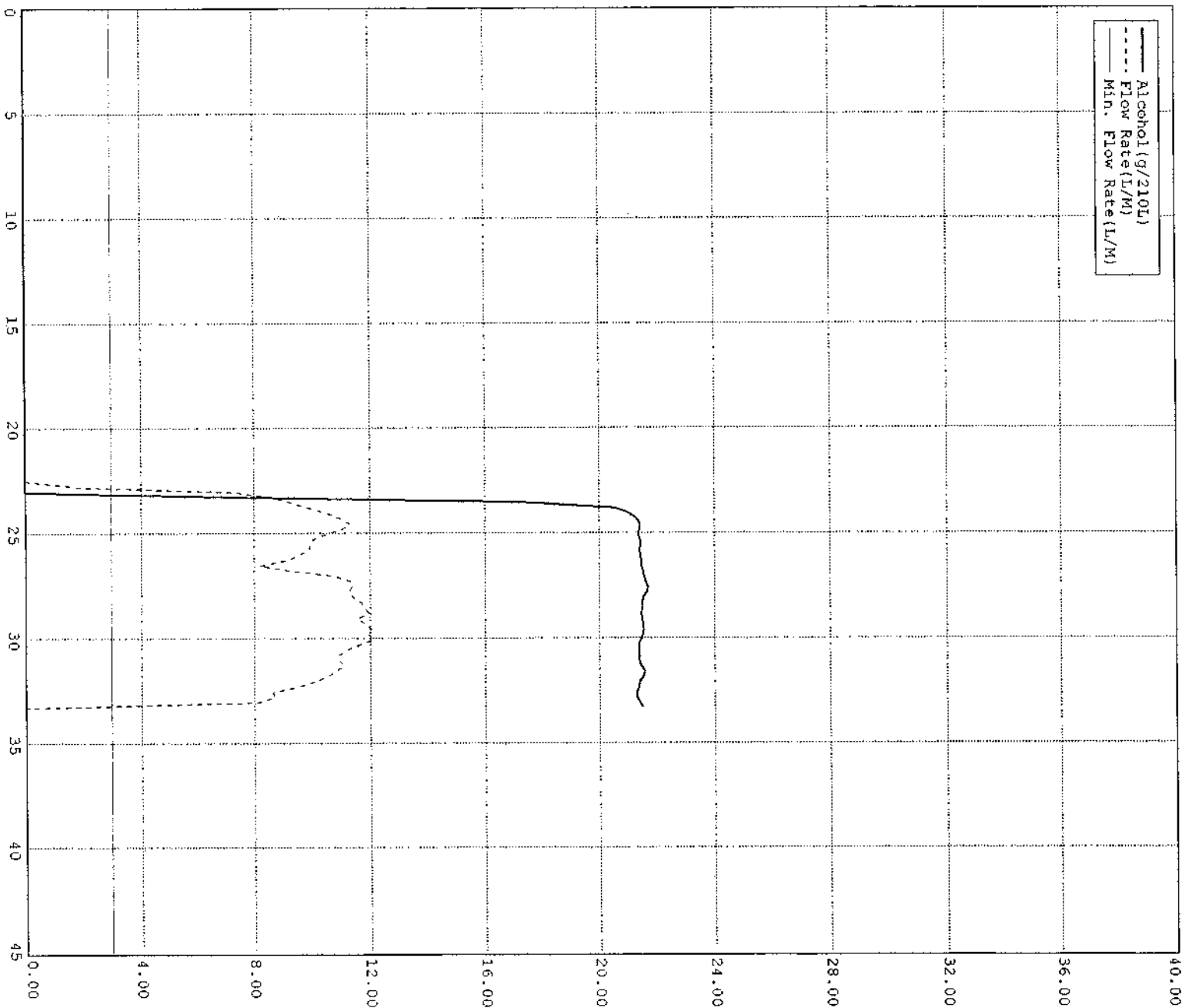
DIAGNOSTIC CHECK	PASSED	09:02
BLANK TEST	0.000	09:02
INTERNAL STANDARD	VERIFIED	09:02
Xg = 0.088 (1.20%)		
EXTERNAL STANDARD	0.079	09:02
X[1] = 0.0787 (-0.0017)	(0.0006)	
BLANK TEST	0.000	09:03
SUBJECT SAMPLE	XXX	09:04
X[1] = 0.1083 (-0.0187)	(-0.0011)	

Interference Detected

Filter 2 Avg: -0.0021
Filter 3 Avg: 0.0012

BMB 12/1/16

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 12/01/2016
Time: 09:11:35

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

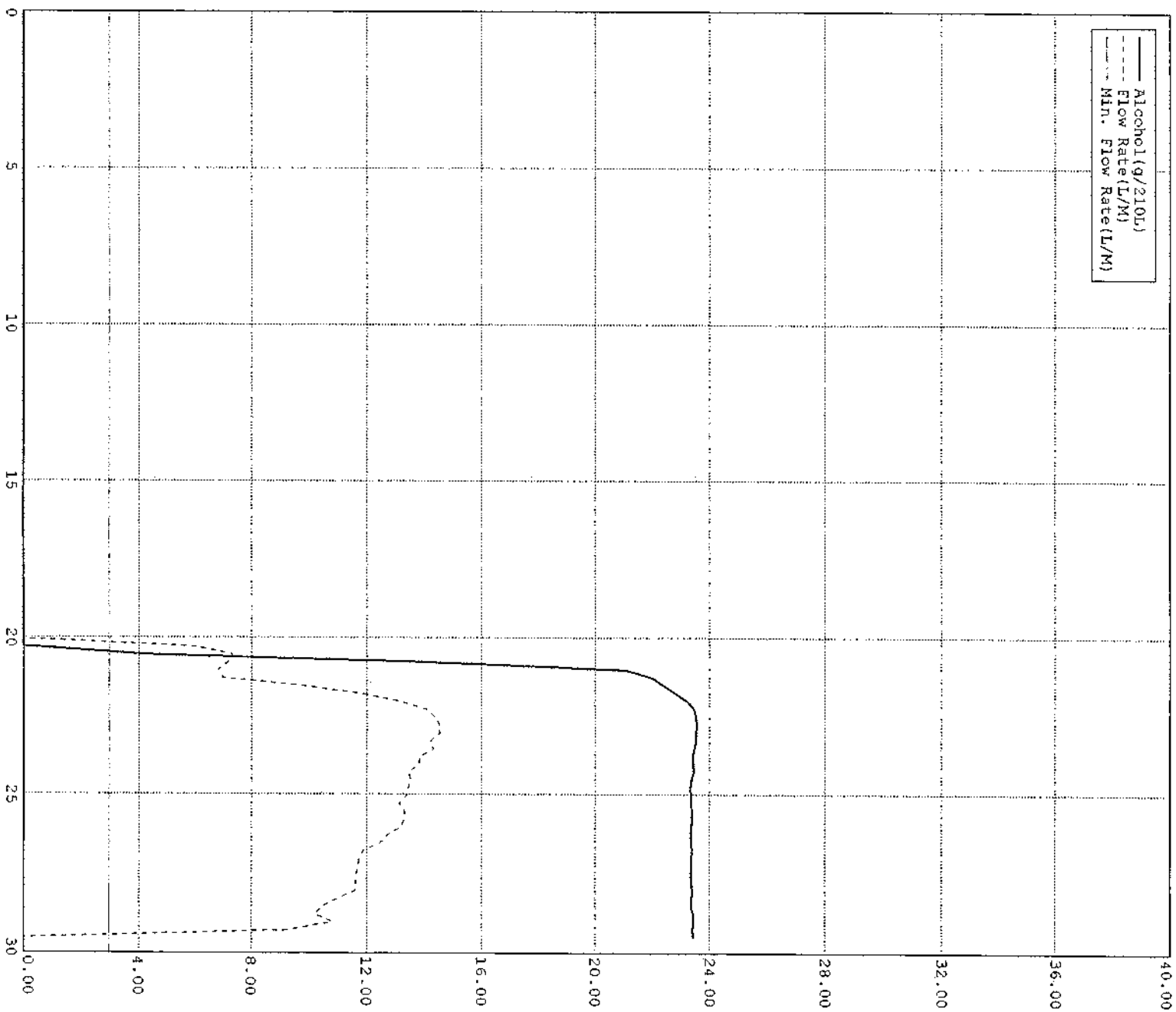
DEPT/AGENCY:
INTERFERENCE ISOPROPYL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.04: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	09:12
BLANK TEST	0.000	09:13
INTERNAL STANDARD	VERIFIED	09:13
Xq = 0.087 (0.60%)		
EXTERNAL STANDARD	0.077	09:13
X[1] = 0.0767 (-0.0018)	(0.0017)	
BLANK TEST	0.000	09:14
SUBJECT SAMPLE	XXX	09:14
X[1] = 0.1179 (-0.0293)	(0.0015)	

Interference Detected

EMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 12/01/2016
Time: 09:22:12

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

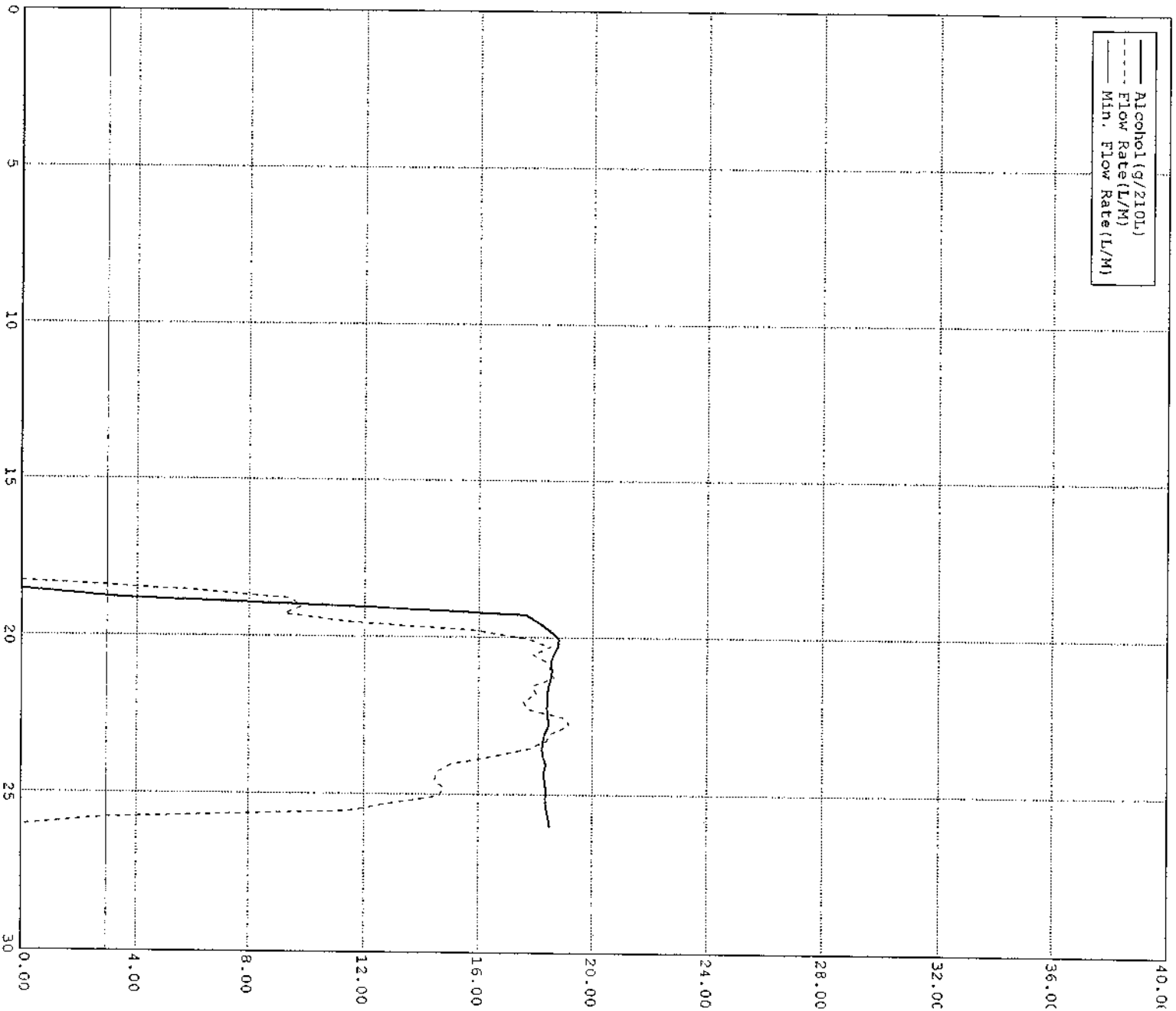
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.04: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	09:26
BLANK TEST	0.000	09:26
INTERNAL STANDARD	VERIFIED	09:26
Xq = 0.087 (0.20%)		
EXTERNAL STANDARD	0.076	09:26
X[1] = 0.0762 (-0.0019)	(0.0014)	
BLANK TEST	0.000	09:27
SUBJECT SAMPLE (Vol=1.89L)	0.092	09:28
X[1] = 0.0929 (-0.0017)	(0.0000)	
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.076	09:29
X[1] = 0.0759 (-0.0028)	(0.0010)	
BLANK TEST	0.000	09:30

BNB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 11/30/2016
Time: 14:34:05

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

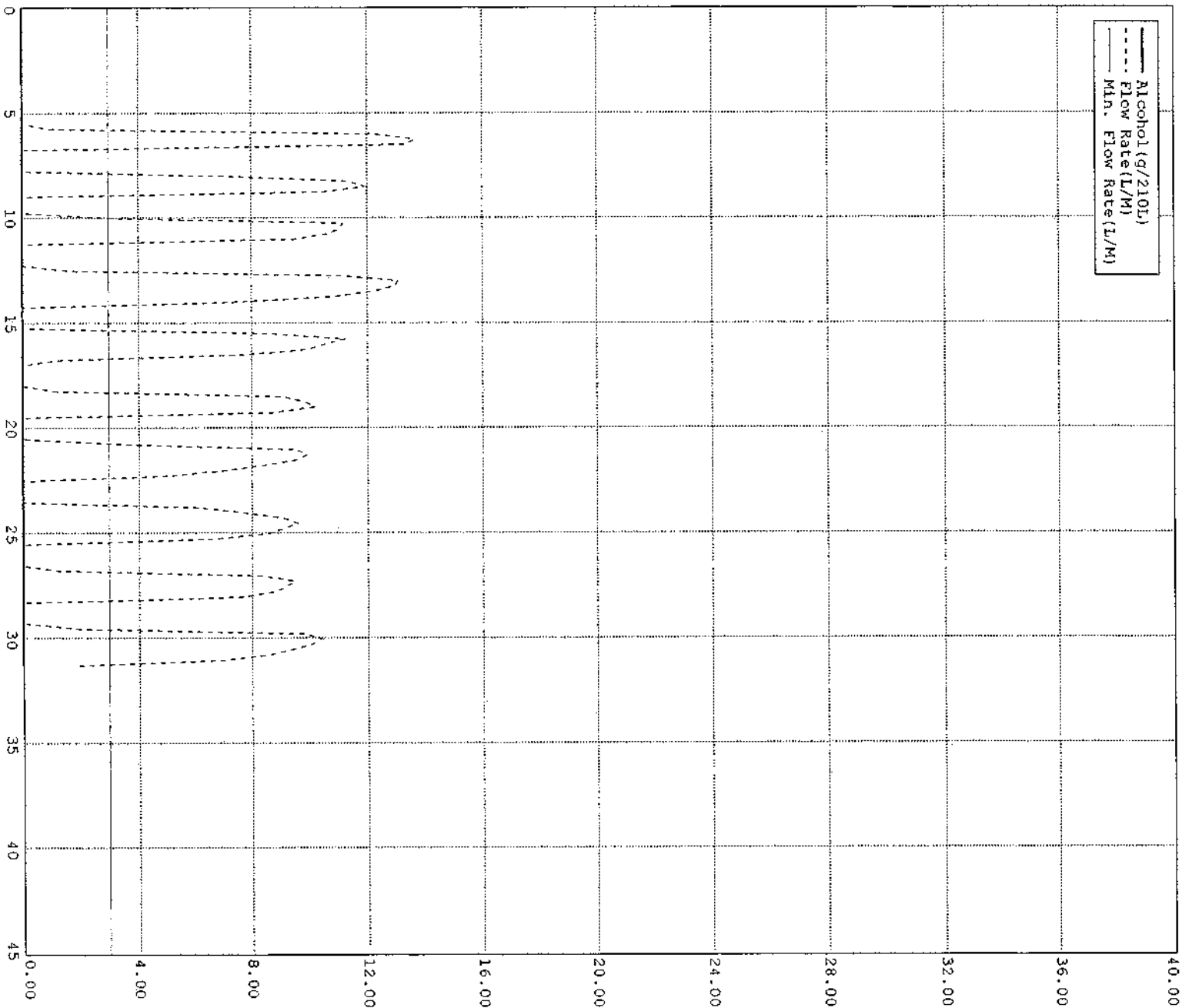
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.11: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	14:35
BLANK TEST	0.000	14:35
INTERNAL STANDARD	VERIFIED	14:35
EXTERNAL STANDARD	0.077	14:35
BLANK TEST	0.000	14:36
SUBJECT SAMPLE	XXX	14:37

Maximum Attempts Exceeded

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 11/30/2016
Time: 13:58:19

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

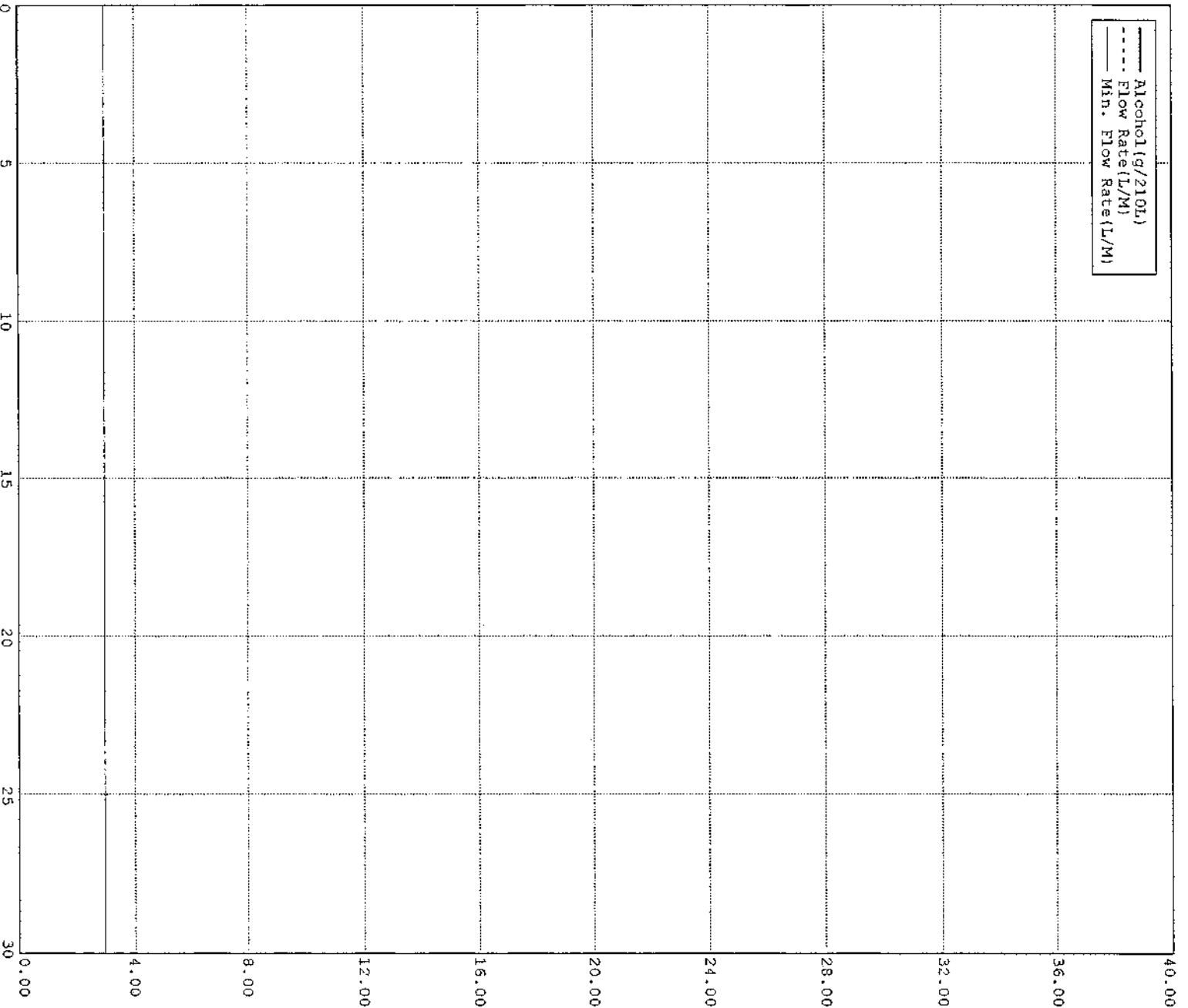
DEPT/AGENCY:
RFI
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.12: 0.078
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	14:00
BLANK TEST	0.000	14:00
INTERNAL STANDARD	0.076	14:00
EXTERNAL STANDARD	0.000	14:01

RFI DETECTED

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100410

Date: 12/01/2016
Time: 10:29:35

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 29.04: 0.078
LOT #: AG60B504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	10:31
BLANK TEST	0.000	10:31
INTERNAL STANDARD	VERIFIED	10:31
EXTERNAL STANDARD	0.076	10:31
BLANK TEST	0.000	10:32
SUBJECT SAMPLE (Vol=1.81L)	0.000	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.076	10:34
BLANK TEST	0.000	10:34

BBMB

