

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 100422 Analyst Brandi Barnett Start Date 9/16/15

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 1.6 L (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf TLMO Lot 02915020A2 Exp 3/5/17

ii. 0.040g/210L Mnf TLMO Lot 02915040A3 Exp 3/5/17

iii. 0.080g/210L Mnf TLMO Lot 09214080A2 Exp 5/1/16

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

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

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 9/17/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100422

Date: 09/16/2015
Time: 10:56:26

VERSIONS
DMT: 3.01
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 48.0°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.69 V PASSED
(1.03 V - 2.41 V)
Cooler Voltage = 1.65 V PASSED
(1.00 V - 2.34 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 559 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.645 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 = 0.09% 0.18% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100422

Date: 09/16/2015
Time: 11:09 AM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 48.0°C

Current Barometer 29.2 in
Volume (Ltr) 1.51

Settings

Lamp: 1.75 V
Bias: 80 V
Cooler: 1.68 V
Chopper: 559 Hz

Voltages (V)

Flow: 1.06 V
Detector: -0.001 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100422

Date: 10/03/2011
Time: 13:45:03

Ca	=	0.1000		
CAL	=	1.010043	0.800	<= CAL < 1.200
b1	=	0.0000	0.0000	<= b1 < 0.0040
b2	=	0.0050	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0960	0.0500	<= Xq < 0.2000
a21	=	1.221242	1.050	<= a21 < 1.300
a31	=	0.412262	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 109422

Date: 09/16/2015
Time: 11:10:25

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

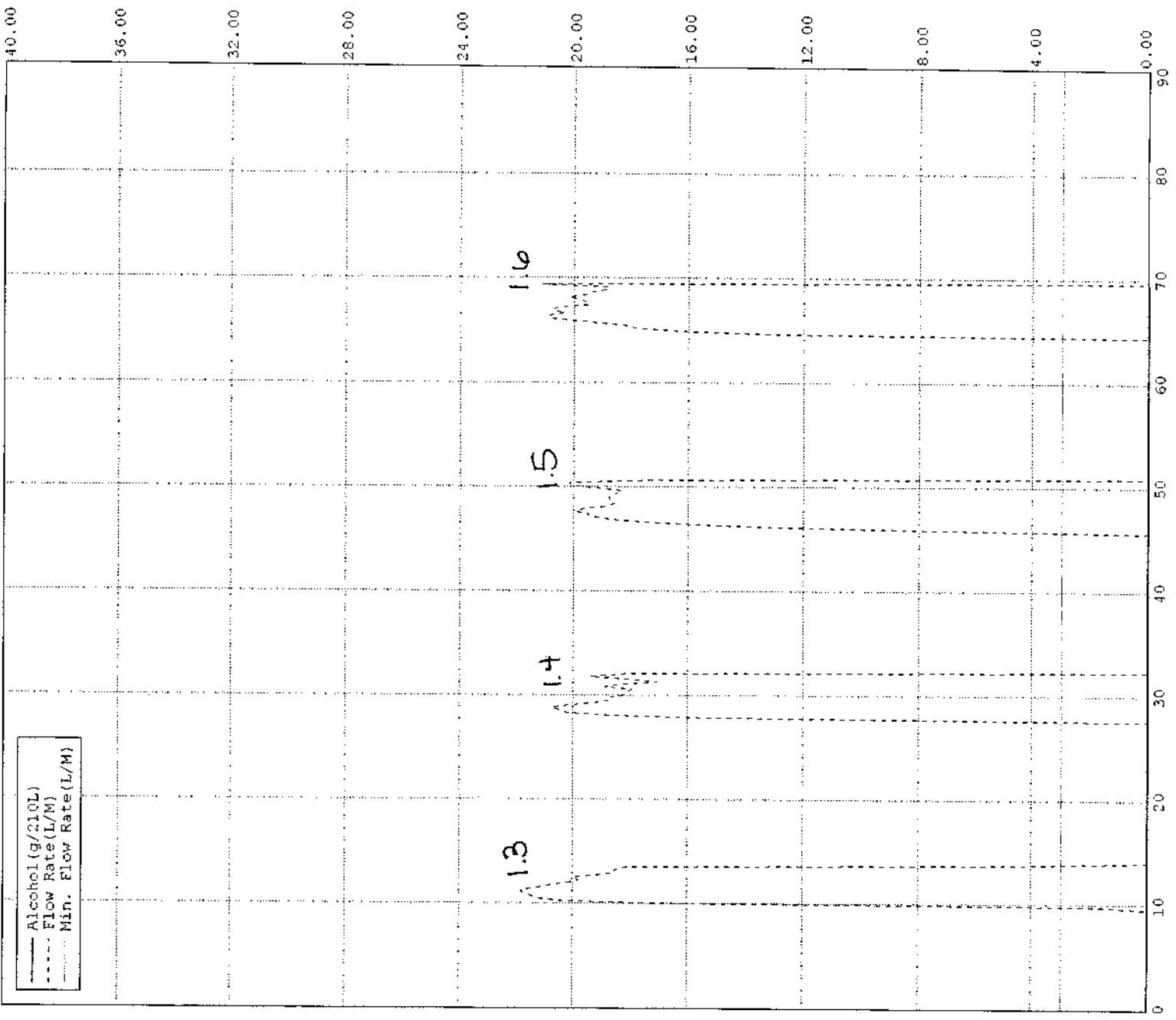
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.21: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	11:11
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 (Vol=1.60L)	0.000	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.078	11:15
BLANK TEST	0.000	11:16



LINEARITY CHECK

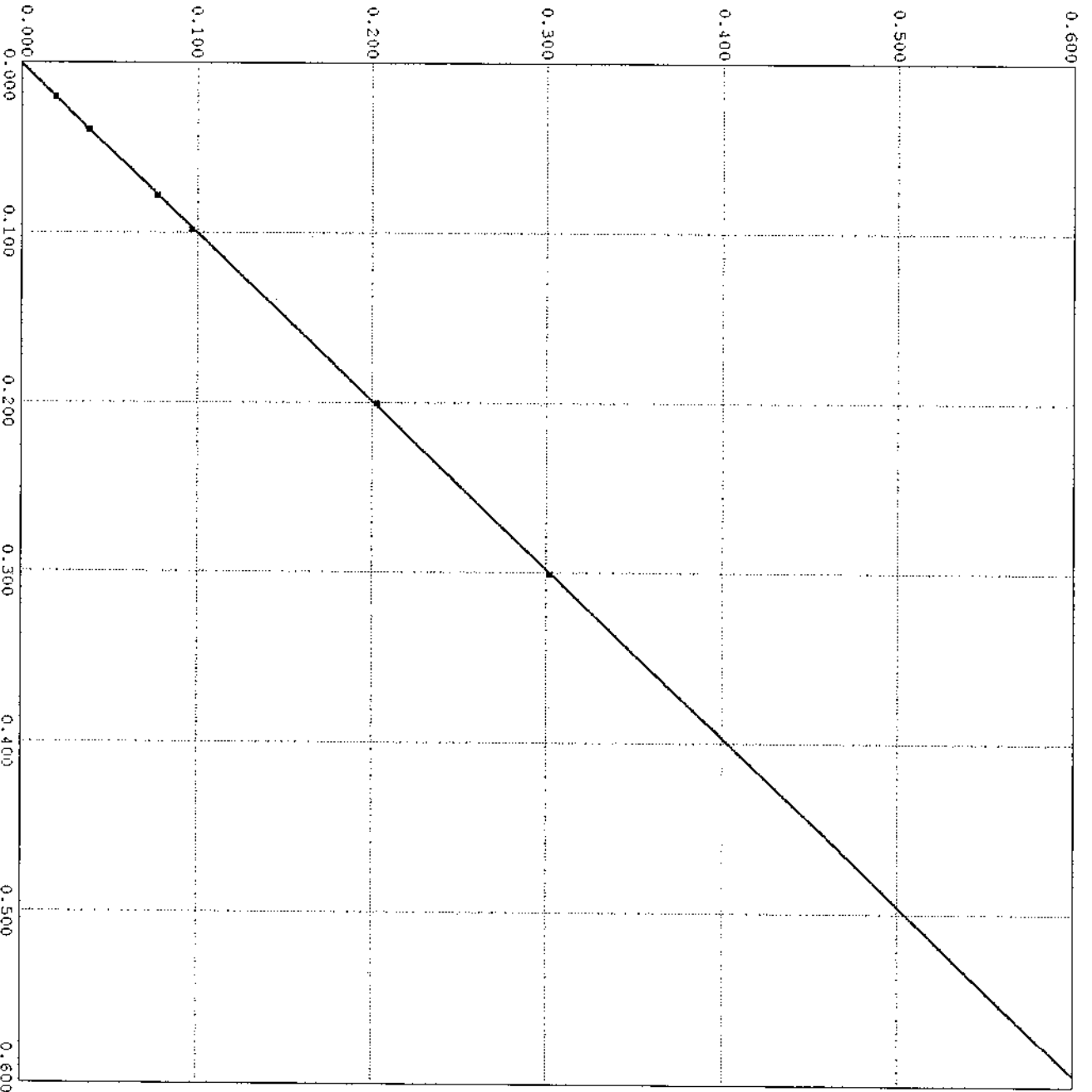
Alaska Department of Public Safety
DATAMASTER dnt: 100422

Date: 09/16/2015
Time: 12:54:06

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0392	0.0004
0.078	0.0782	0.0008
0.098	0.0978	0.0004
0.200	0.2036	0.0009
0.300	0.3026	0.0011

SLOPE = 1.012503
R² = 0.999932



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100422

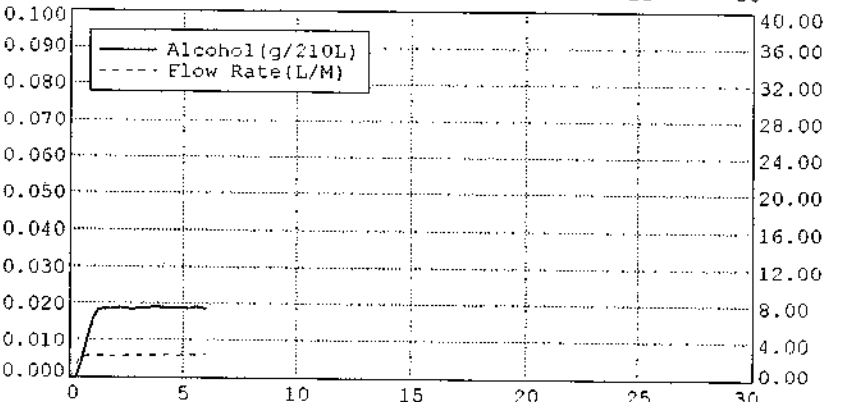
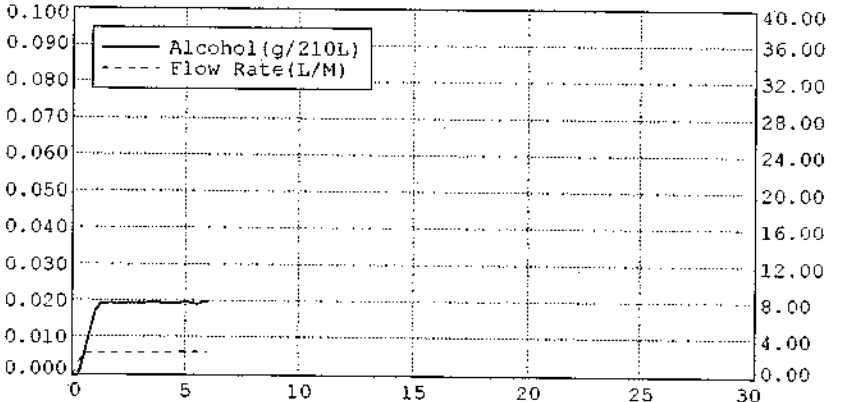
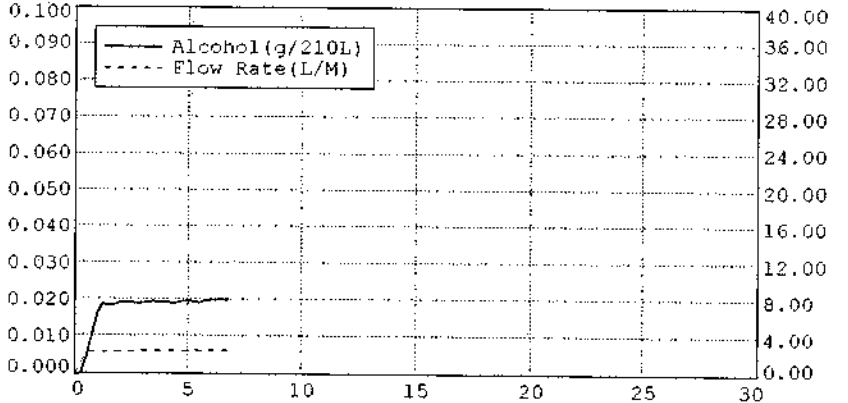
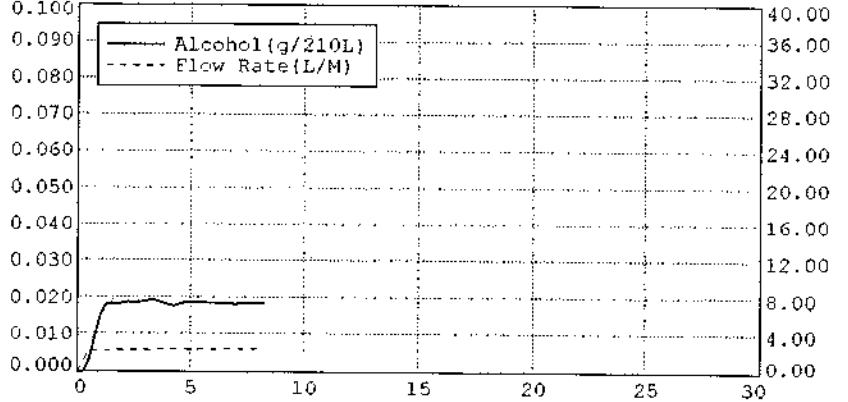
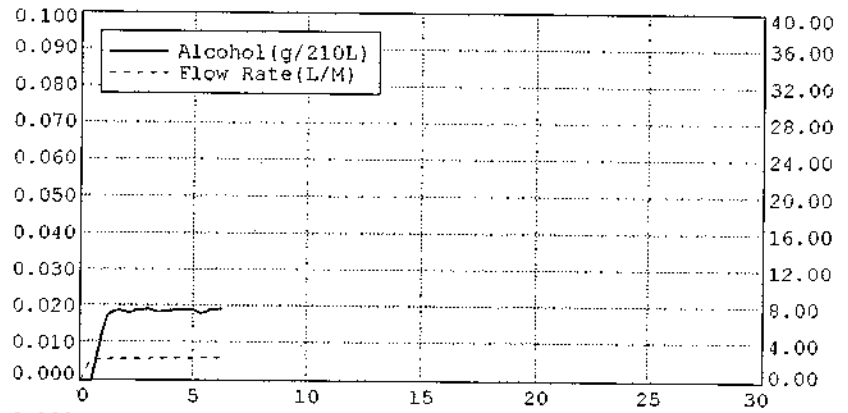
Date: 09/16/2015
Time: 12:54:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.20: 0.020
LOT #: 02915020A2
EXPIRATION: 03/05/2017
TANK PRESSURE: 352 psi

BLANK TEST	0.000	12:55
INTERNAL STANDARD	VERIFIED	12:55
EXTERNAL STANDARD	0.020	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.020	12:56
BLANK TEST	0.000	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	12:59
BLANK TEST	0.000	13:00

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100422

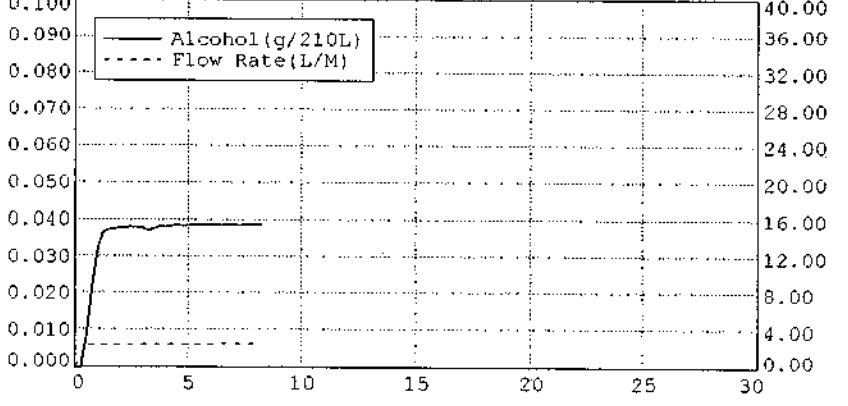
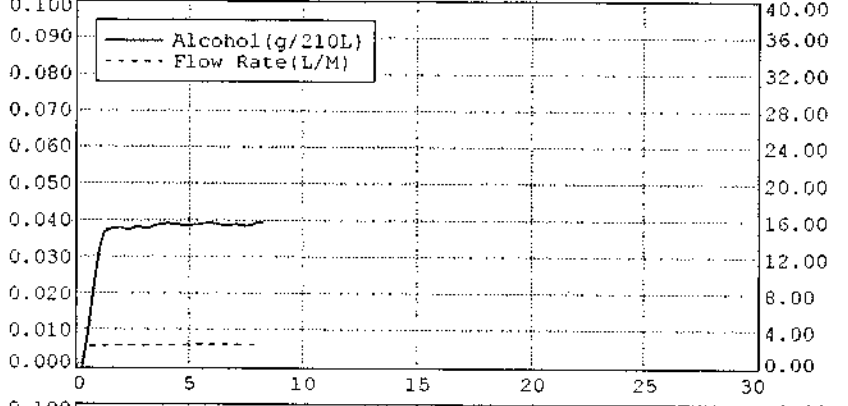
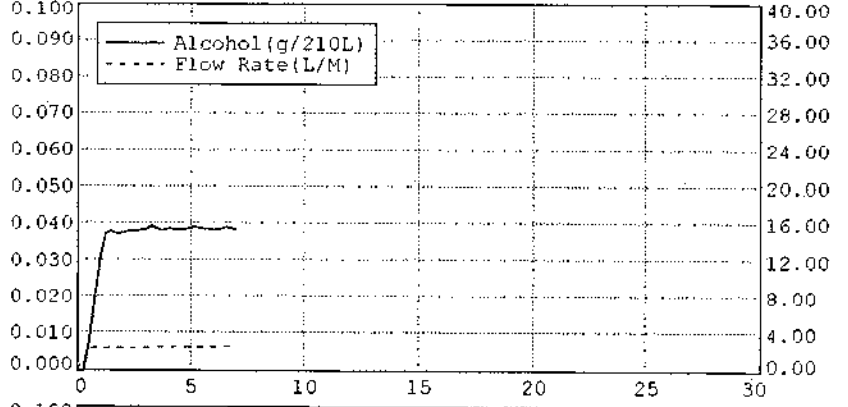
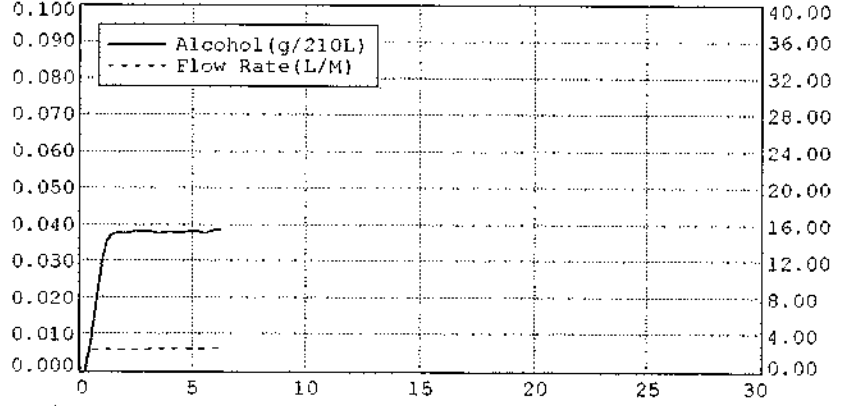
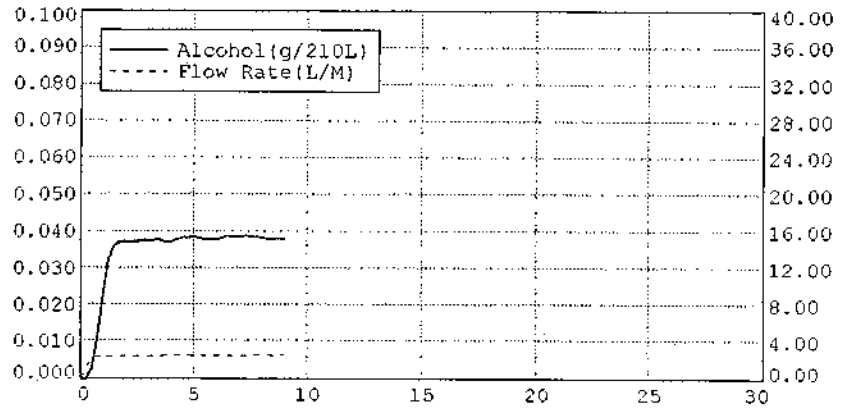
Date: 09/16/2015
 Time: 13:22:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.20: 0.039
 LOT #: 02915040A3
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 441 psi

BLANK TEST	0.000	13:23
INTERNAL STANDARD	VERIFIED	13:23
EXTERNAL STANDARD	0.039	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.039	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.039	13:26
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.040	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.039	13:28
BLANK TEST	0.000	13:29

Average = 0.0392
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100422

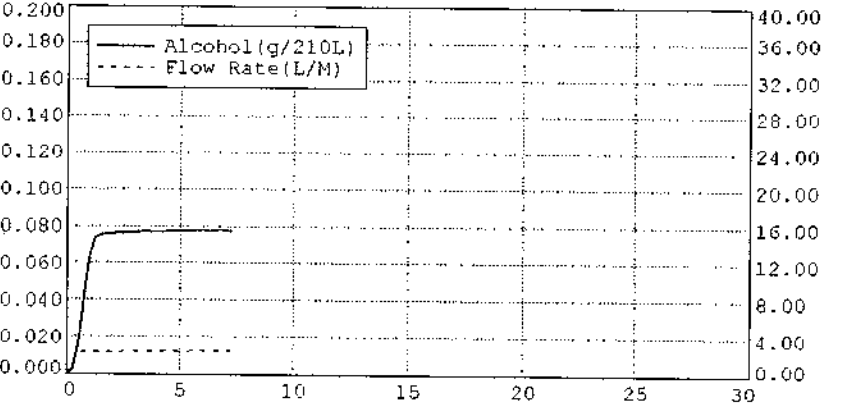
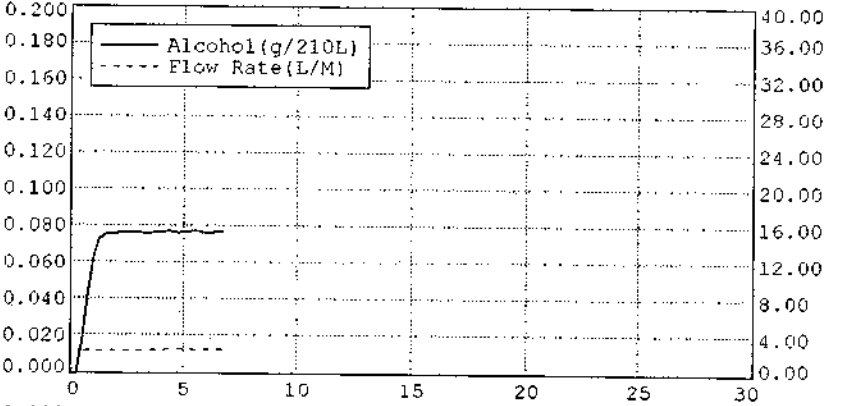
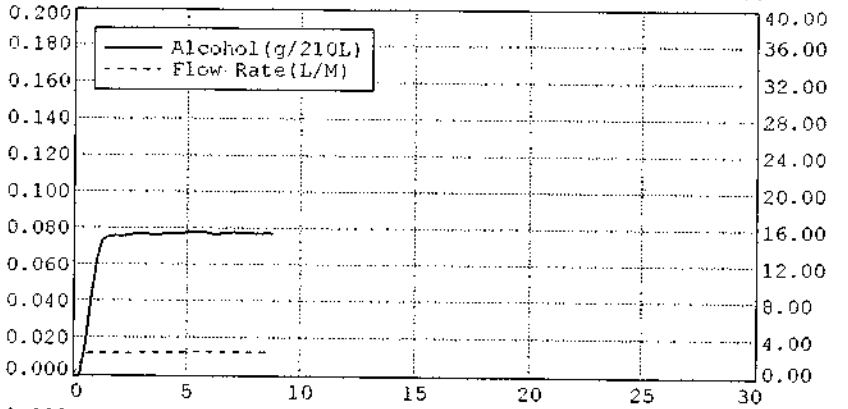
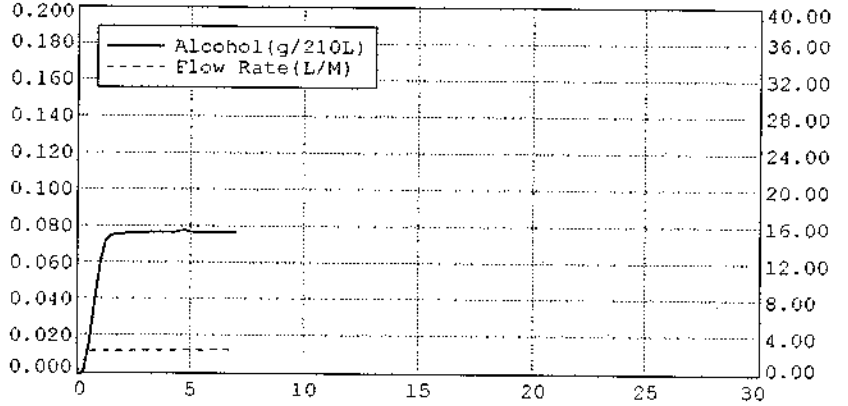
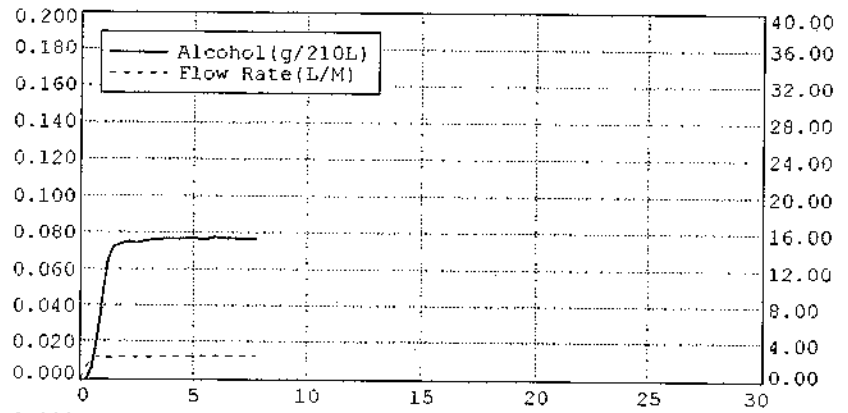
Date: 09/16/2015
 Time: 13:33:40

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.20: 0.078
 LOT #: 09214080A2
 EXPIRATION: 05/01/2016
 TANK PRESSURE: 491 psi

BLANK TEST	0.000	13:35
INTERNAL STANDARD	VERIFIED	13:35
EXTERNAL STANDARD	0.078	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.078	13:37
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.079	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.077	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.079	13:40
BLANK TEST	0.000	13:41

Average = 0.0782
 Std Dev = 0.0008



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dnt: 100422

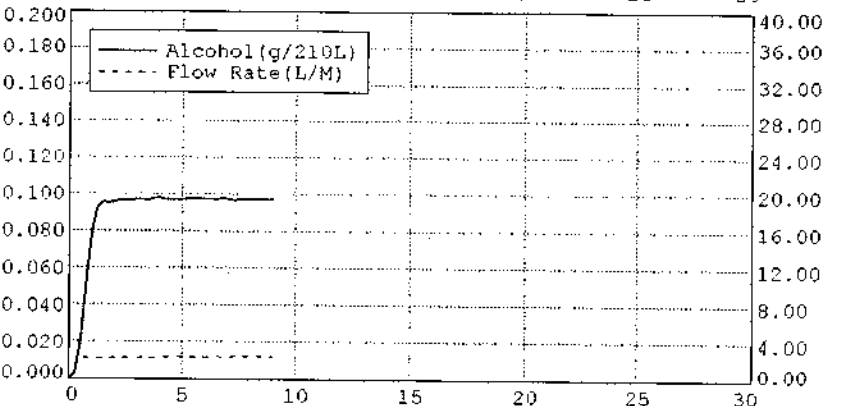
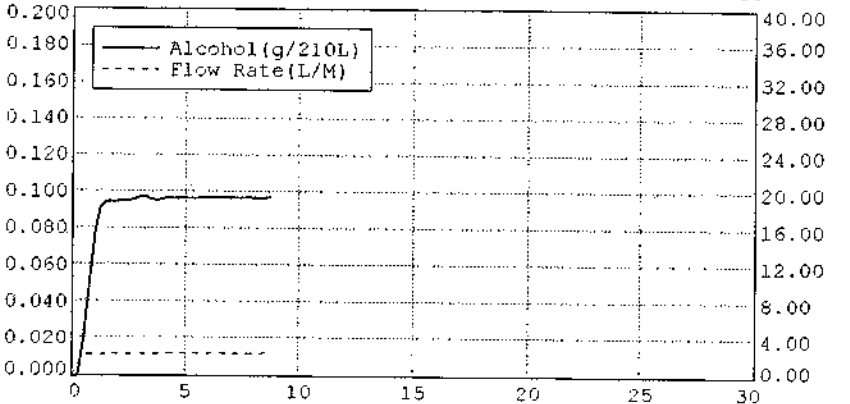
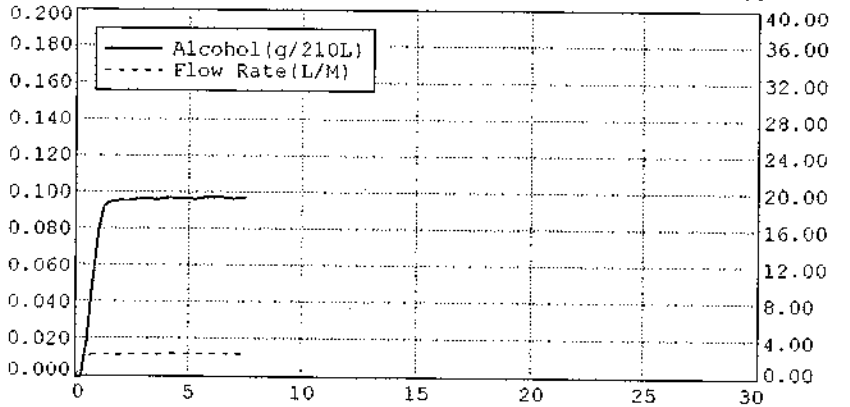
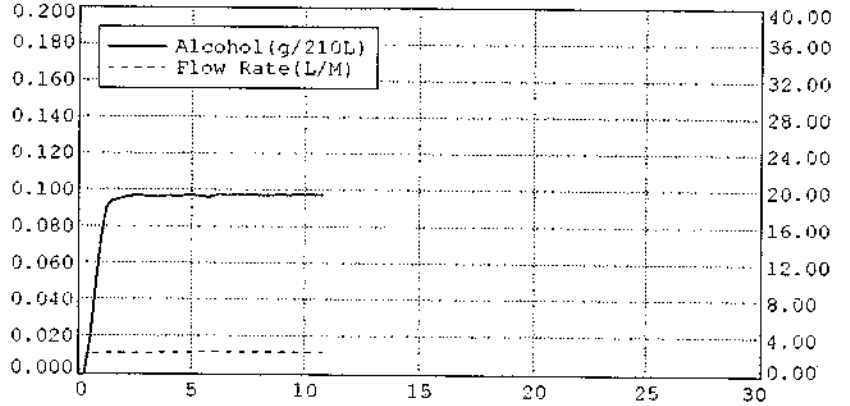
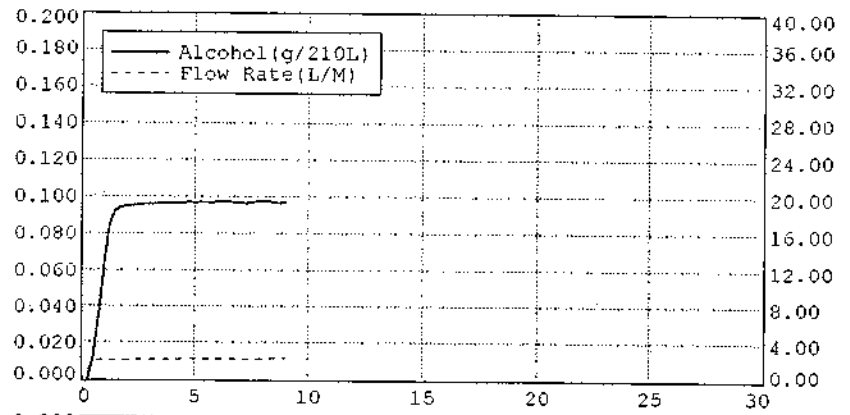
Date: 09/16/2015
 Time: 13:42:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.20: 0.098
 LOT #: 02915100A1
 EXPIRATION: 03/05/2017
 TANK PRESSURE: 288 psi

BLANK TEST	0.000	13:43
INTERNAL STANDARD	VERIFIED	13:44
EXTERNAL STANDARD	0.098	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.098	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.098	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.097	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.098	13:48
BLANK TEST	0.000	13:49

Average = 0.0978
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100422

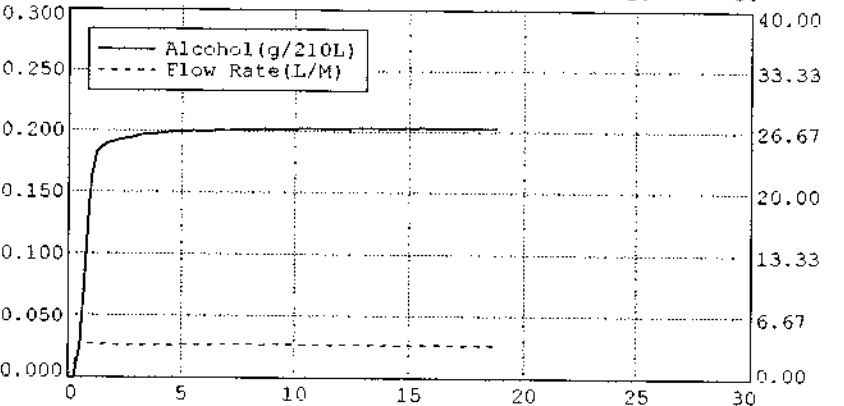
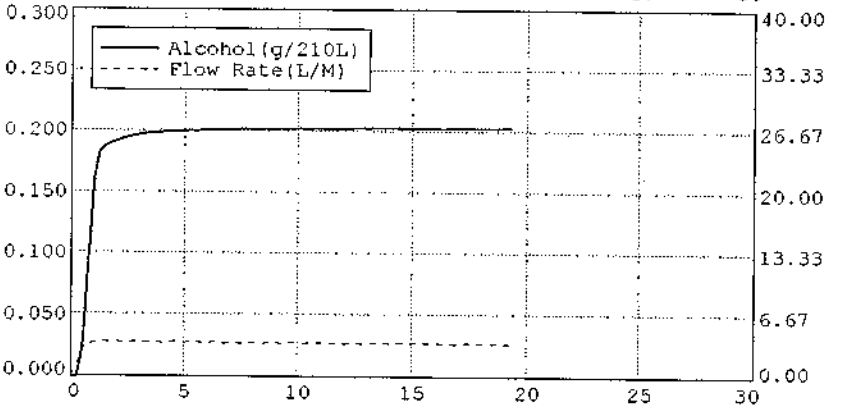
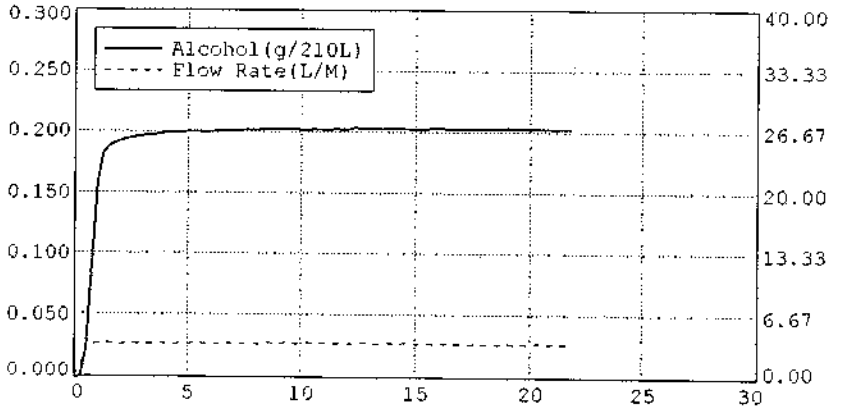
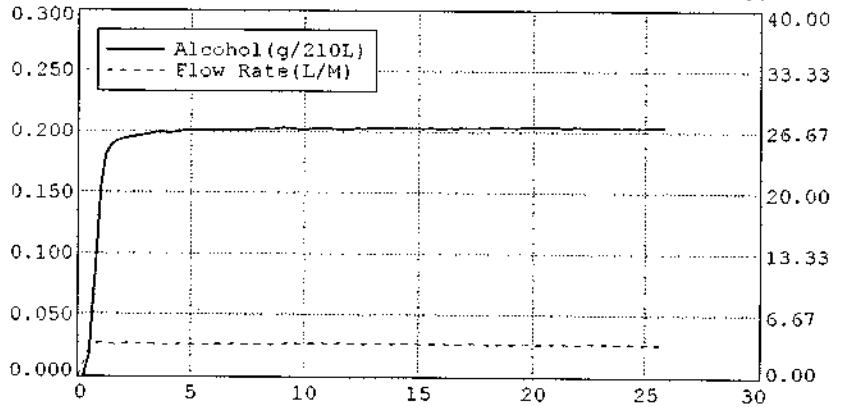
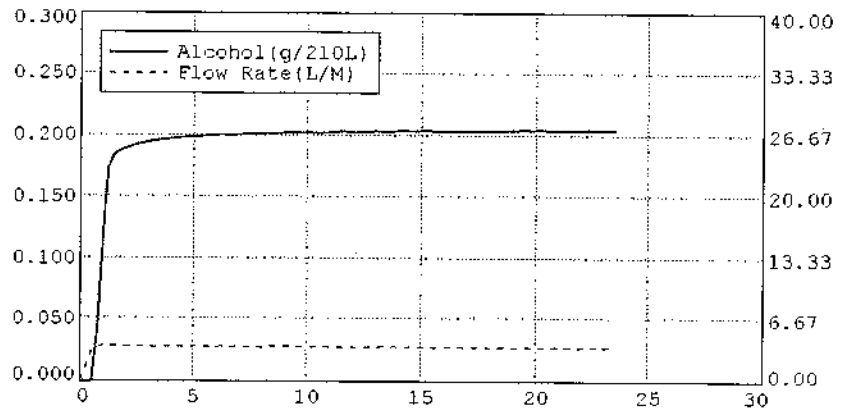
Date: 09/16/2015
 Time: 13:50:28

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:52
INTERNAL STANDARD	VERIFIED	13:52
EXTERNAL STANDARD	0.205	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.204	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.203	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.203	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.203	13:58
BLANK TEST	0.000	13:59

Average = 0.2036
 Std Dev = 0.0009



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100422

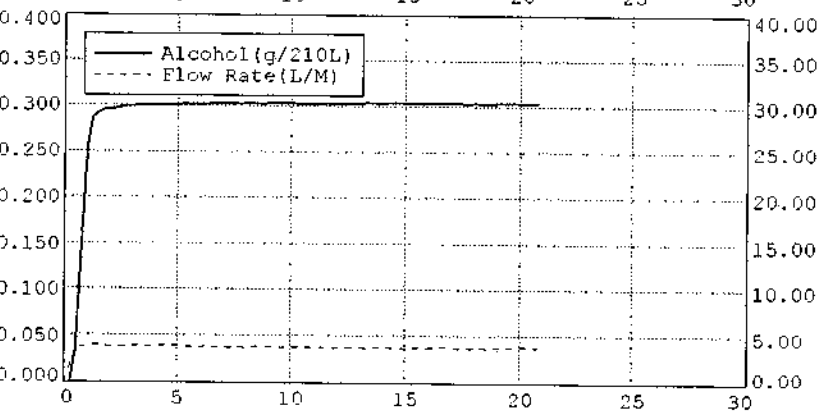
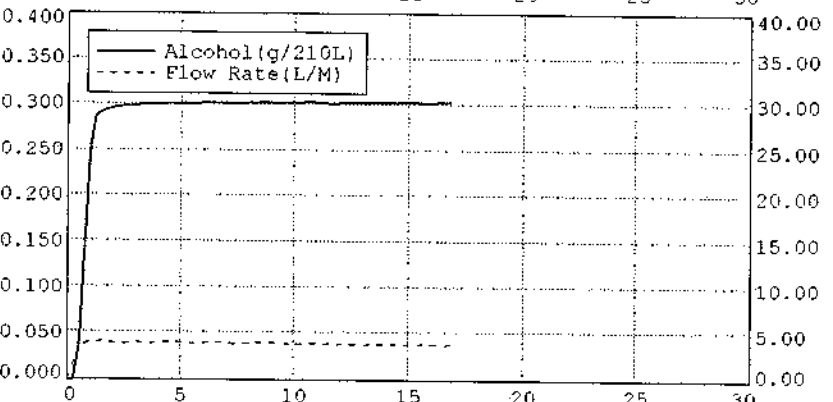
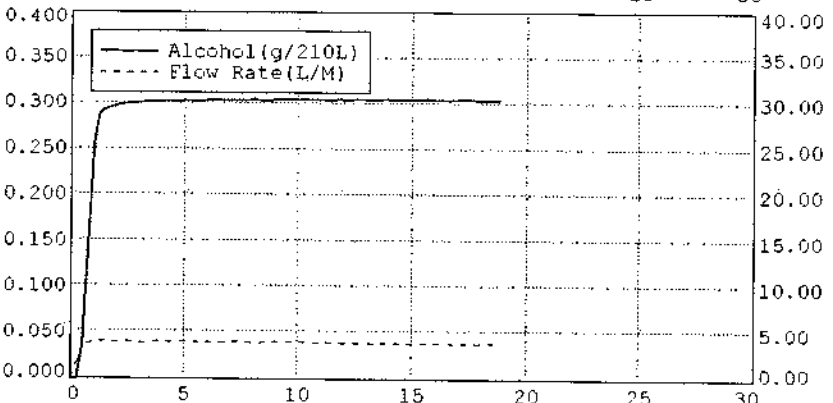
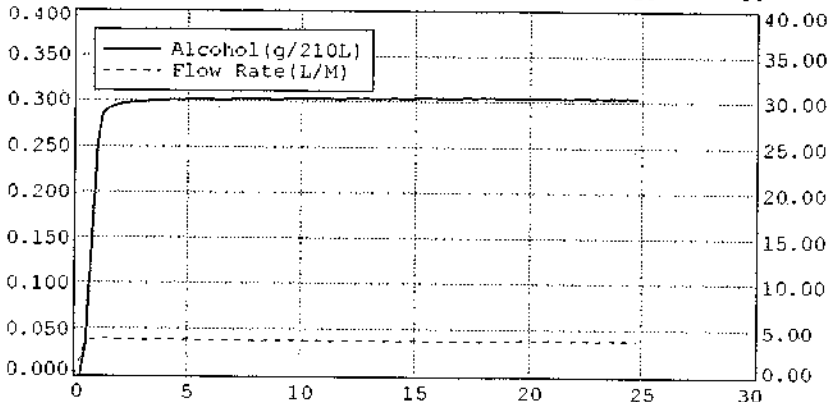
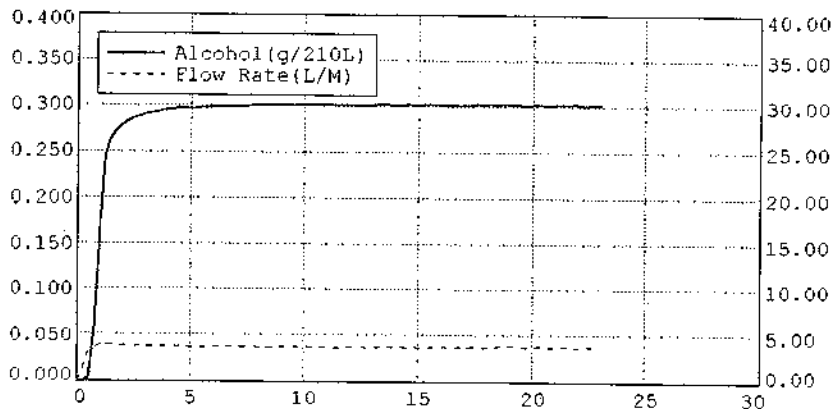
Date: 09/16/2015
 Time: 14:01:06

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:04
INTERNAL STANDARD	VERIFIED	14:04
EXTERNAL STANDARD	0.302	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.304	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.303	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.301	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.303	14:11
BLANK TEST	0.000	14:12

Average = 0.3026
 Std Dev = 0.0011



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dntc: 100422

Date: 09/17/2015
Time: 09:04:54

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

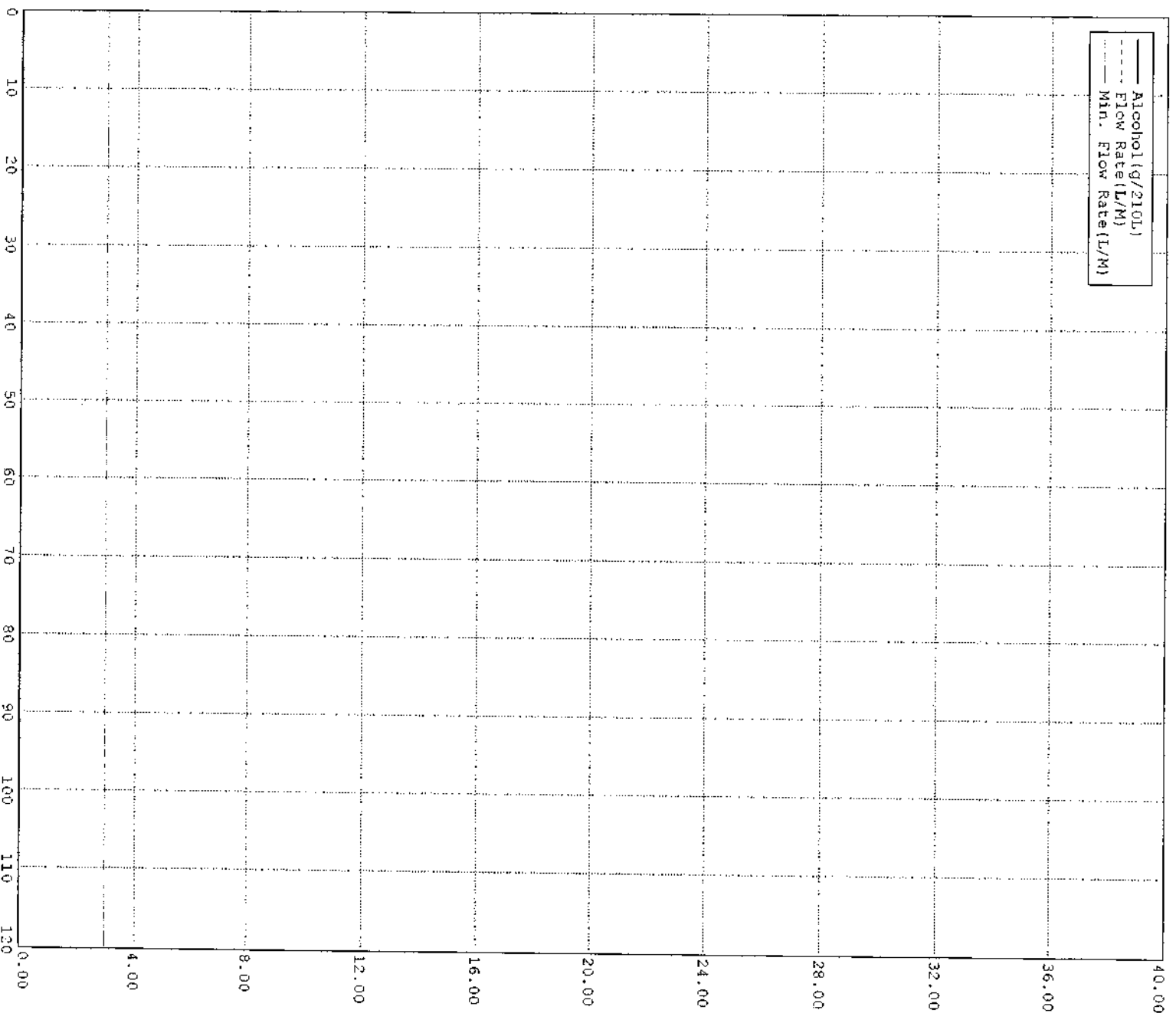
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.03: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:07
BLANK TEST	0.000	09:07
INTERNAL STANDARD	VERIFIED	09:07
EXTERNAL STANDARD	0.078	09:08
BLANK TEST	0.000	09:09
SUBJECT SAMPLE	INCOMPLETE	09:11

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100422

Date: 09/17/2015
Time: 09:13:04

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

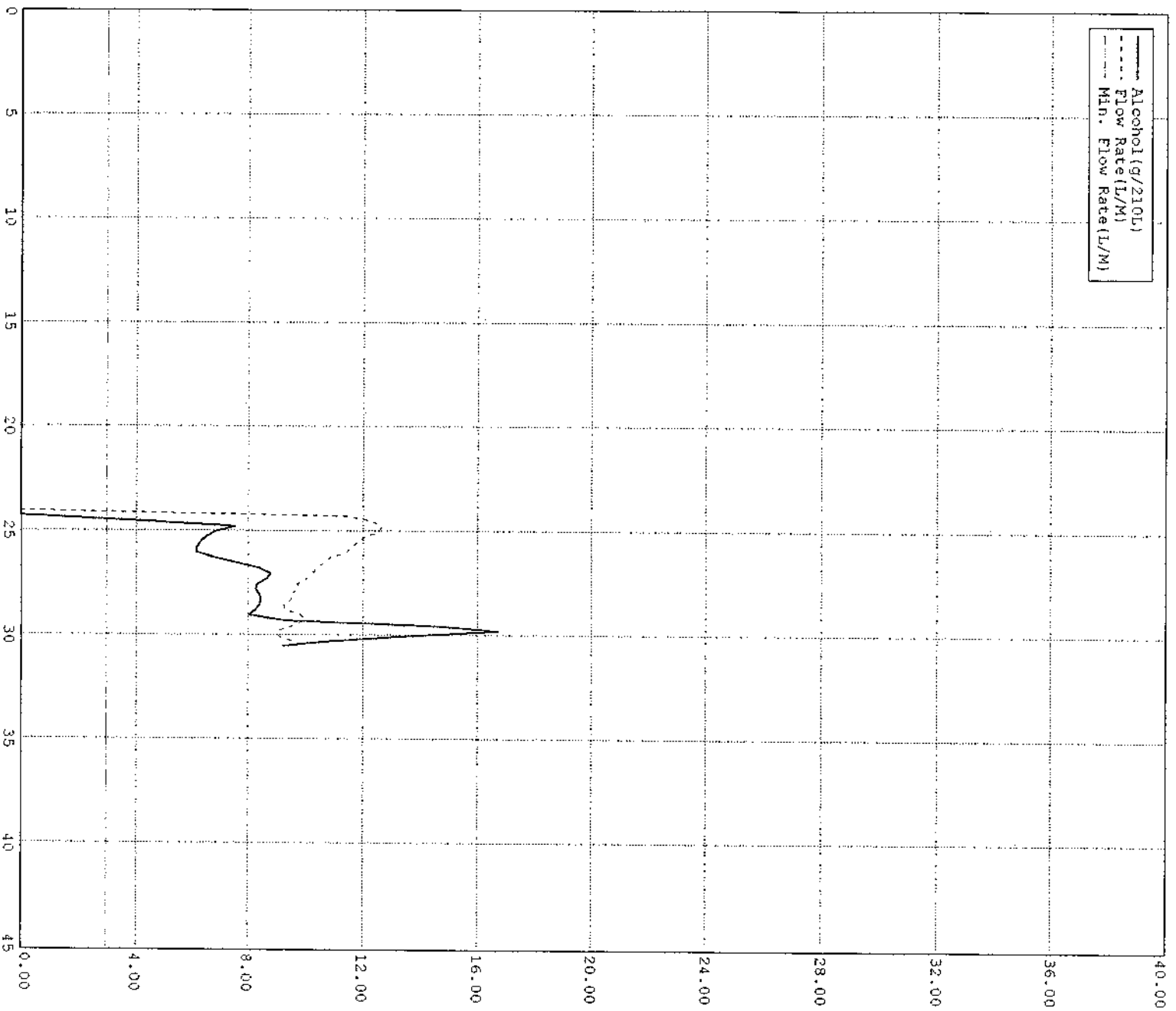
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.02: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:14
BLANK TEST	0.000	09:14
INTERNAL STANDARD	VERIFIED	09:14
EXTERNAL STANDARD	0.078	09:14
BLANK TEST	0.000	09:15
SUBJECT SAMPLE	INVALID	09:16

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100422

Date: 09/17/2015
Time: 12:04:56

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

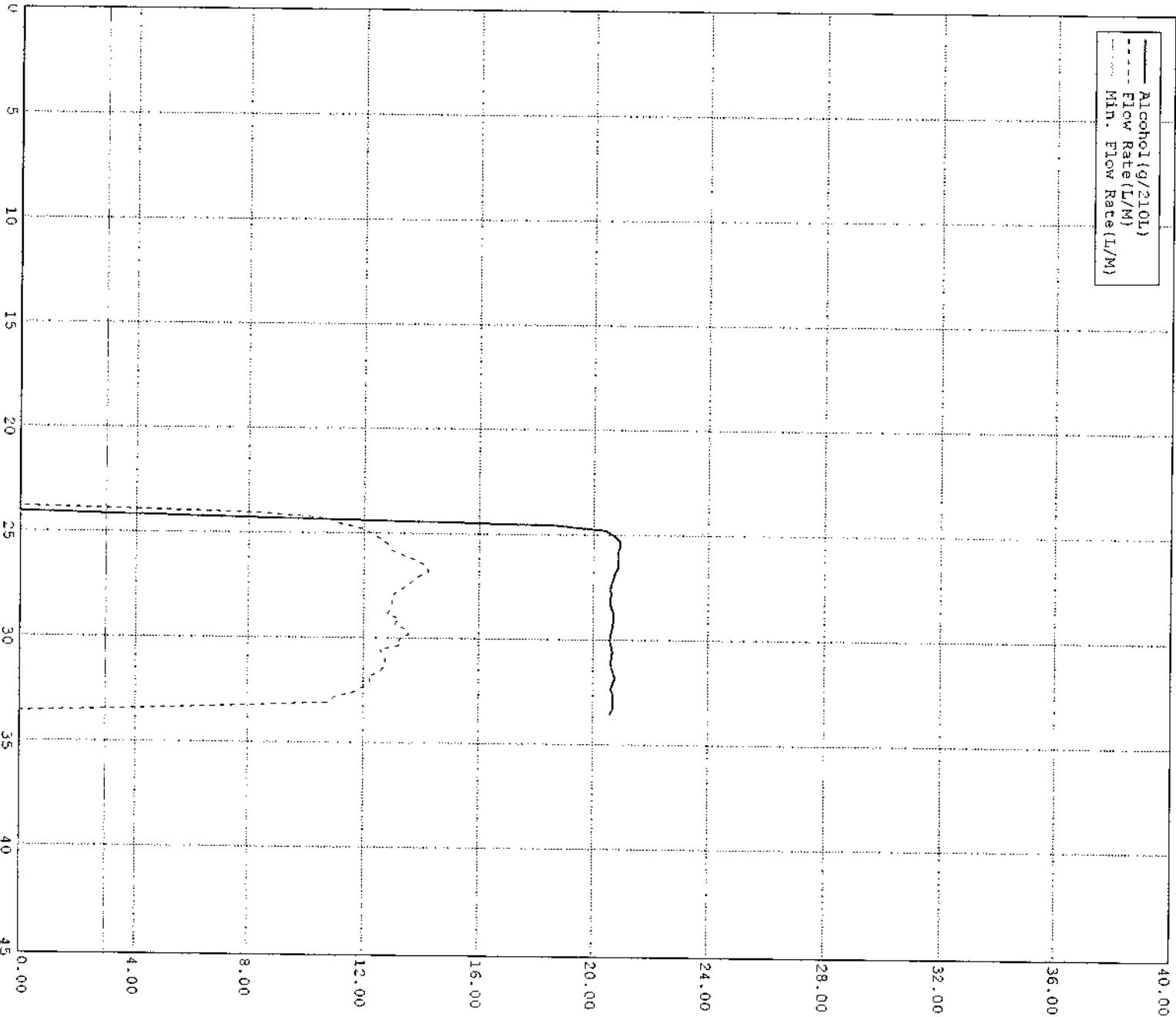
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AP 29.02: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	12:05
BLANK TEST	0.000	12:06
INTERNAL STANDARD	VERIFIED	12:06
Xg = 0.096 (0.18%)		
EXTERNAL STANDARD	0.077	12:06
X[1] = 0.0772 (-0.0004)	(0.0020)	
BLANK TEST	0.000	12:07
SUBJECT SAMPLE	XXX	12:07
X[1] = 0.1035 (-0.0152)	(-0.0002)	

Interference Detected

Filkr 2 Avg: -0.0063
Filkr 3 Avg: 0.0015

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100422

Date: 09/17/2015
Time: 12:12:51

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

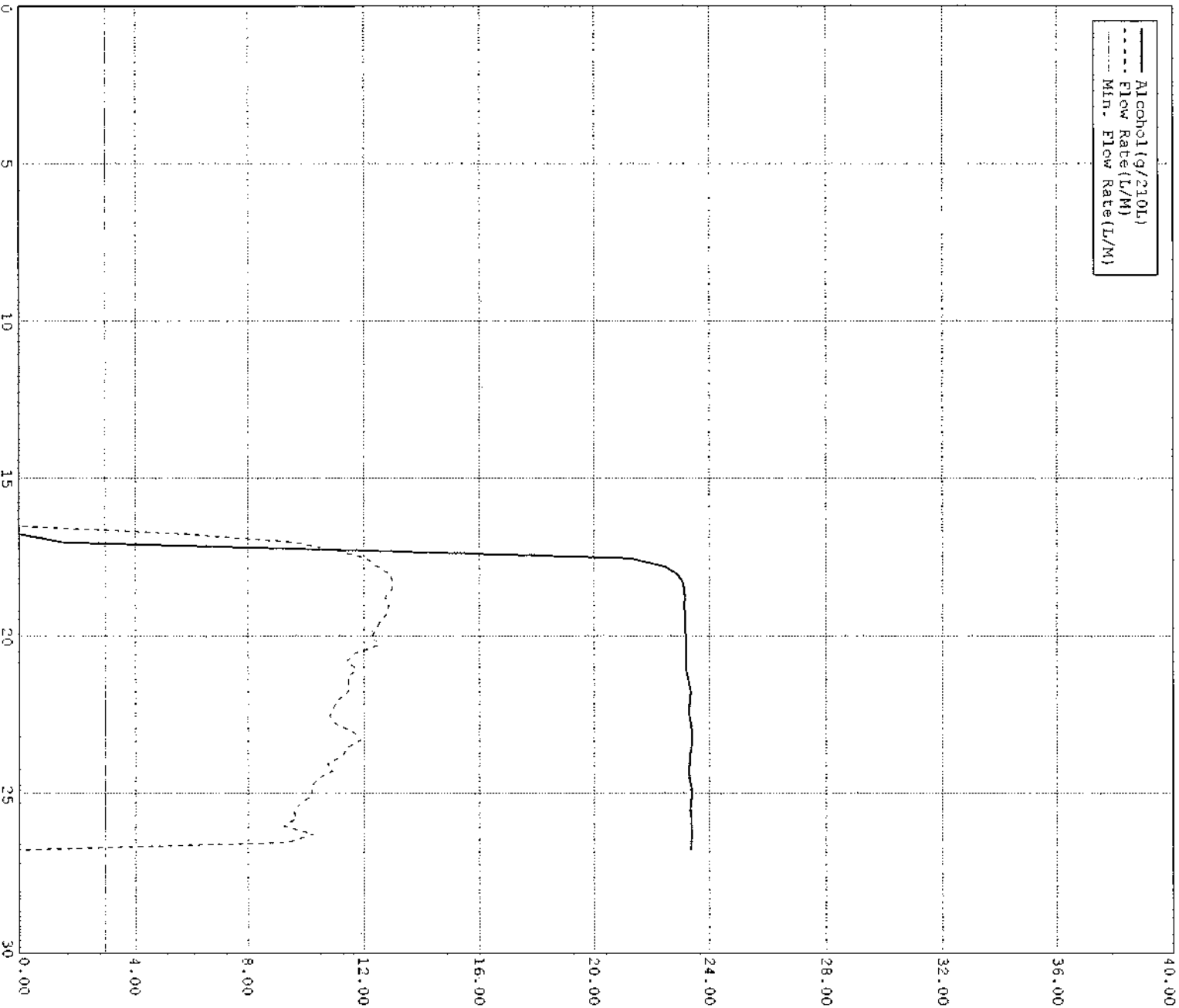
DEPT/AGENCY:
INTERREFERENCE ISOPROPYL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.02: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	12:13
BLANK TEST	0.000	12:13
INTERNAL STANDARD	VERIFIED	12:14
Xq = 0.096 (0.00%)		
EXTERNAL STANDARD	0.078	12:14
X[1] = 0.0776 (0.0000) (0.0010)		
BLANK TEST	0.000	12:15
SUBJECT SAMPLE	XXX	12:15
X[1] = 0.1167 (-0.0295) (0.0006)		

Interference Detected

BBMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100422

Date: 09/17/2015
Time: 09:40:20

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

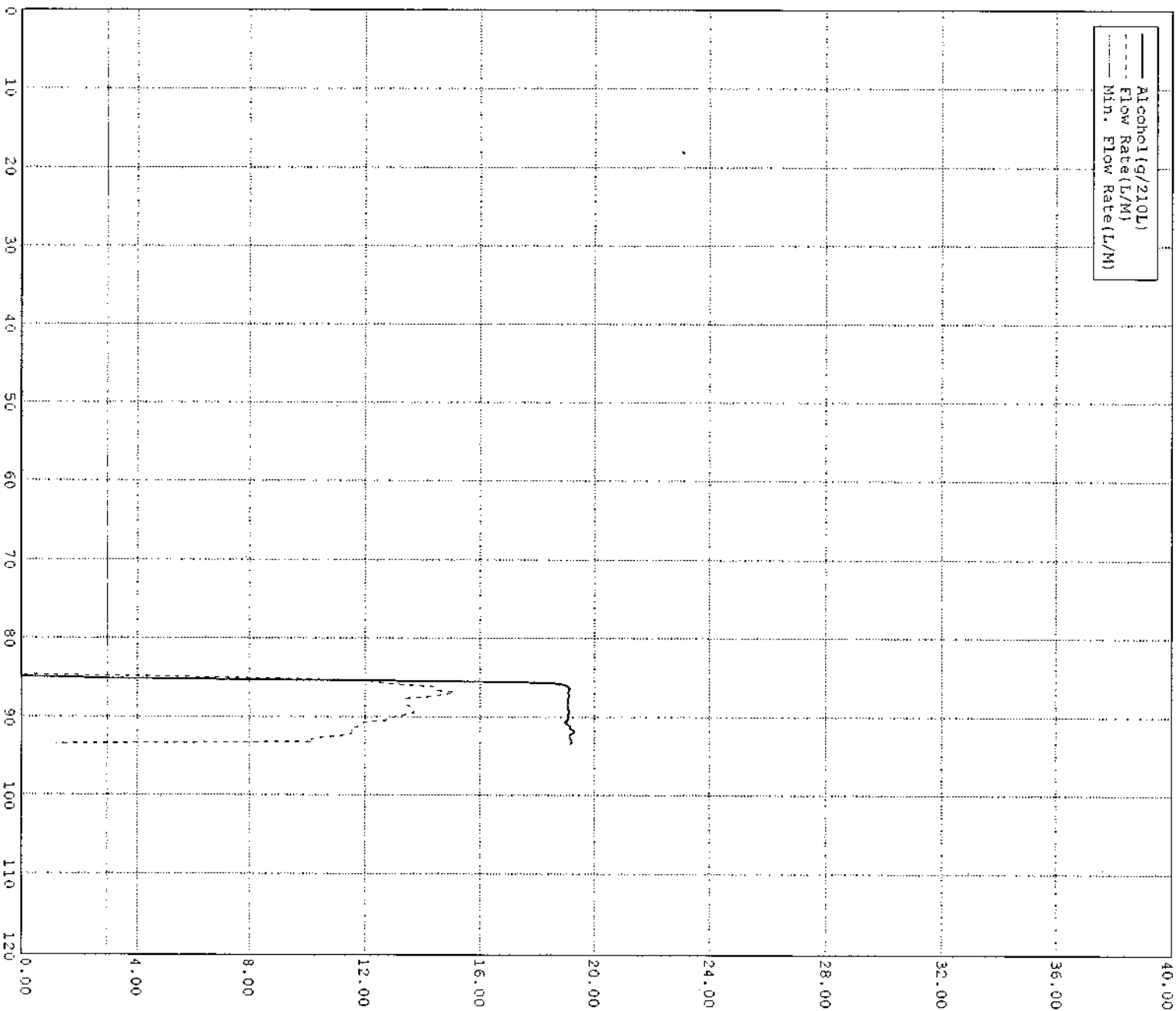
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.04: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:41
BLANK TEST	0.000	09:41
INTERNAL STANDARD	VERIFIED	09:42
Xq = 0.096 (0.27%)		
EXTERNAL STANDARD	0.078	09:42
X[1] = 0.0782 (-0.0005)	(0.0023)	
BLANK TEST	0.000	09:43
SUBJECT SAMPLE (Vol=1.77L)	0.095	09:44
X[1] = 0.0959 (-0.0025)	(0.0002)	
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.077	09:46
X[1] = 0.0774 (-0.0004)	(0.0008)	
BLANK TEST	0.000	09:47

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100422

Date: 09/17/2015
Time: 09:31:05

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

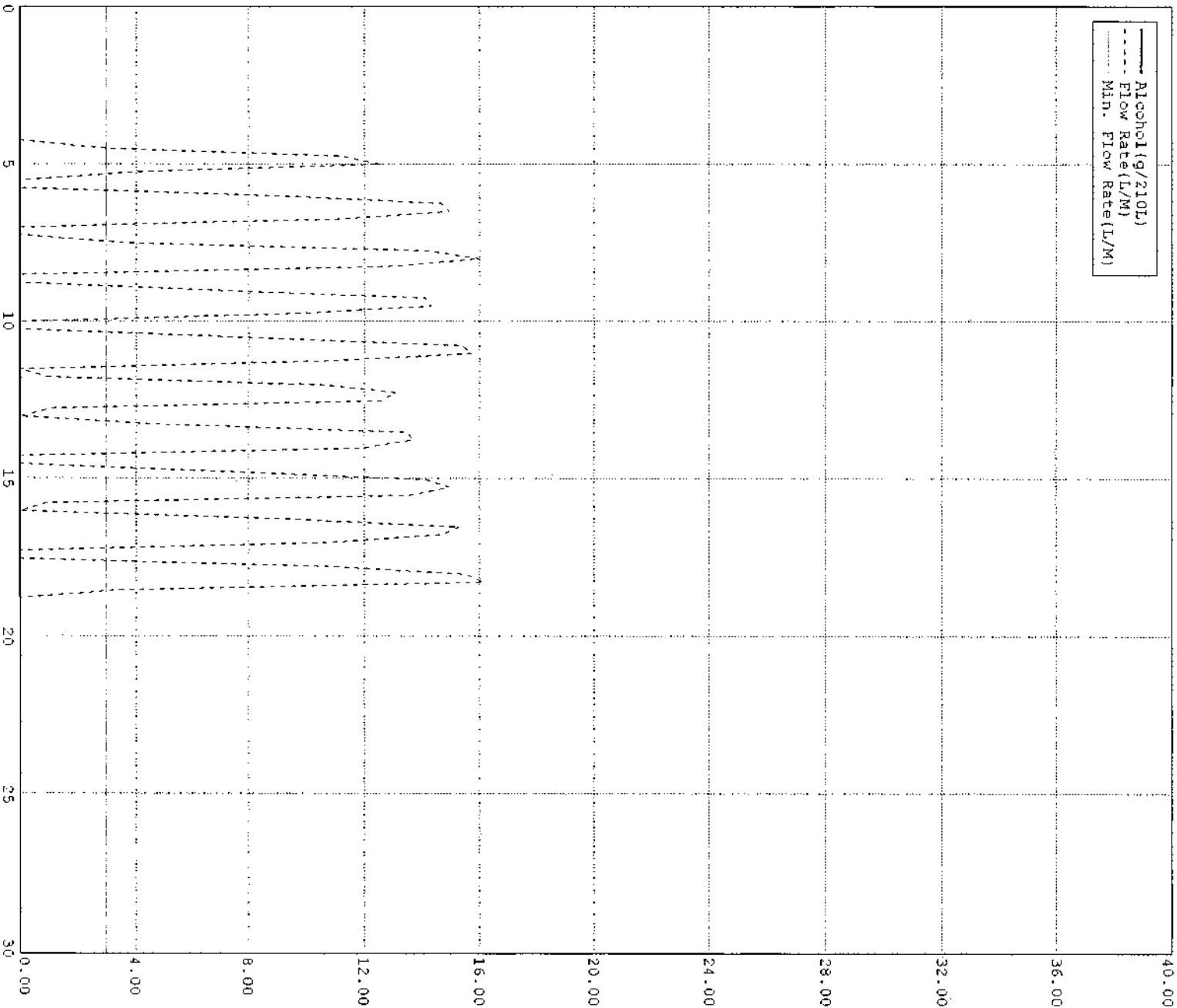
DEPT/AGENCY:
EXCEEDED ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.04: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	09:32
BLANK TEST	0.000	09:32
INTERNAL STANDARD	VERIFIED	09:32
EXTERNAL STANDARD	0.078	09:32
BLANK TEST	0.000	09:33
SUBJECT SAMPLE	XXX	09:34

Maximum Attempts Exceeded

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100422

Date: 09/17/2015
Time: 09:18:09

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

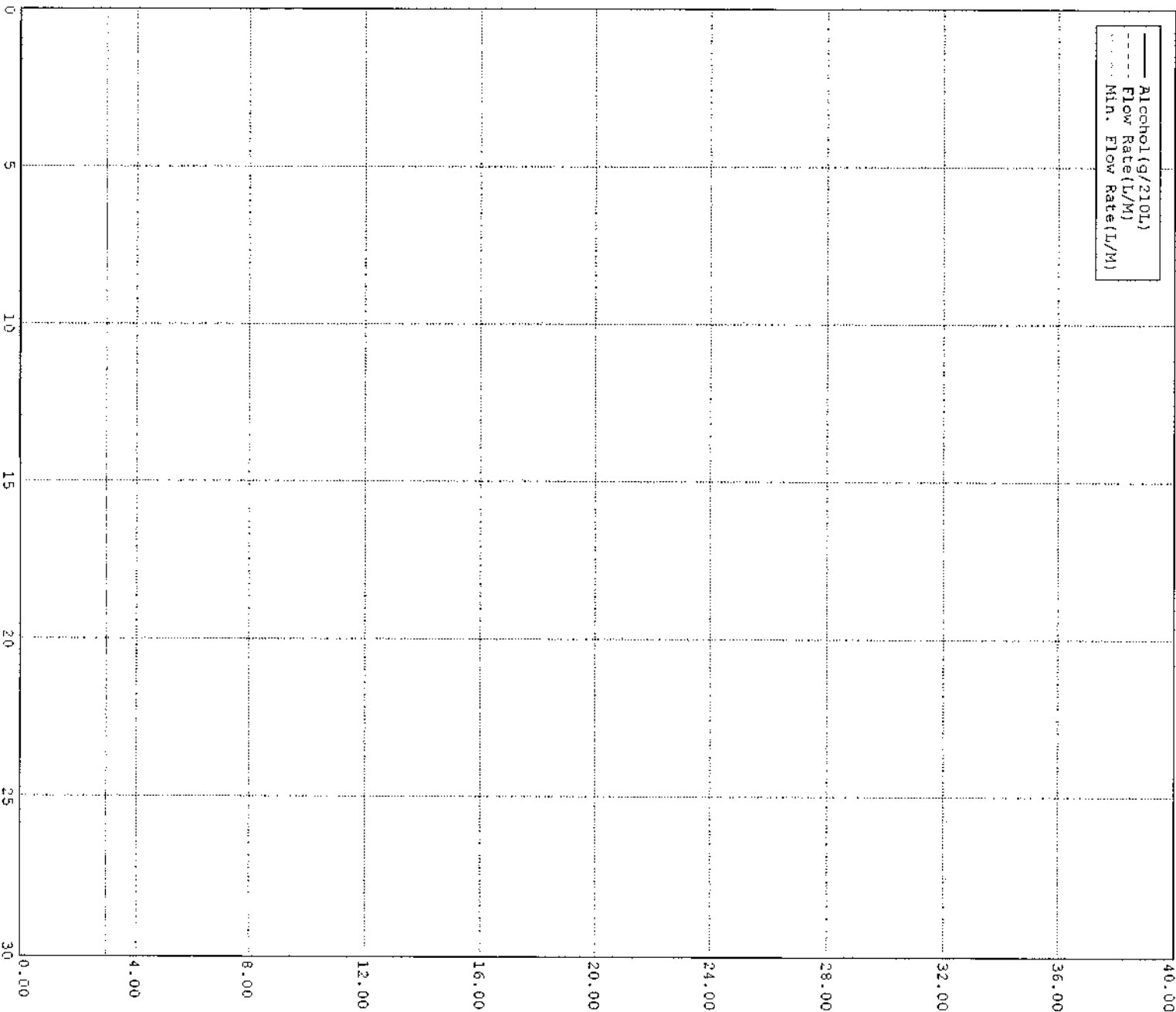
DEPT/AGENCY:
RFI
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.04: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK PASSED 09:22
BLANK TEST 0.000 09:22
INTERNAL STANDARD VERIFIED 09:22
EXTERNAL STANDARD 0.078 09:22
BLANK TEST 0.000 09:23

RFI DETECTED

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100422

Date: 09/17/2015
Time: 12:38:23

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 29.02: 0.078
LOT #: 09214080A2
EXPIRATION: 05/01/2016

DIAGNOSTIC CHECK	PASSED	12:39
BLANK TEST	0.000	12:39
INTERNAL STANDARD	VERIFIED	12:39
EXTERNAL STANDARD	0.078	12:39
BLANK TEST	0.000	12:40
SUBJECT SAMPLE (Vol=1.80L)	0.000	12:41
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.079	12:42
BLANK TEST	0.000	12:43

BMB

