

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 100404 Analyst C. O. Bryant Start Date 10/12/17

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 Airgas Lot AG616504 Exp 06/13/18

ii. 0.040g/210L Mnf Airgas Lot AG630101 Exp 10/27/18

iii. 0.080g/210L Mnf Airgas Lot AG634001 Exp 12/05/18

iv. 0.100g/210L Mnf Airgas Lot AG629304 Exp 10/19/18

v. 0.200g/210L Mnf Guth Lot 17090 Exp 2/24/19

1. Simulator S/N CD1200 Date Calibrated 3/27/17

vi. 0.300g/210L Mnf Guth Lot 16410 Exp 12/19/18

1. Simulator S/N DR4162 Date Calibrated 3/27/17

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 16160 Level 0.100 Exp 7/19/18

1. Simulator S/N DR4178 Date Calibrated 3/27/17

ii. Isopropanol - Mnf Guth Lot 17060 Level 0.100 Exp 2/14/19

1. Simulator S/N SD1176 Date Calibrated 3/29/17

iii. Negative Control - Mnf Guth Lot 17280 Level 0.100 Exp 9/11/19

1. Simulator S/N DR4176 Date Calibrated 3/28/17

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 10/17/17

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 10/12/2017
Time: 07:13:44

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 = 46.8°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.72 V PASSED
(1.06 V - 2.48 V)
Cooler Voltage = 1.65 V PASSED
(1.01 V - 2.35 V)
Bias Voltage = 82 V PASSED
(49 V - 115 V)
Chopper Freq = 534 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 4.468 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 = 0.088 0.79% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100404

Date: 10/12/2017
Time: 1:39 PM

Temperatures (°C)

Sample Cell: 49.1°C
Breath Tube: 48.3°C

Current Barometer 29.7 in
Volume (Ltr) 1.50

Settings

Lamp: 1.72 V
Bias: 82 V
Cooler: 1.73 V
Chopper: 533 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.083 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 05/18/2011
Time: 14:02:44

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 01/01/2012

Ca = 0.1000
CAL = 0.970035 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0071 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xq = 0.0888 0.0500 <= Xq < 0.2000
a21 = 1.183100 1.050 <= a21 < 1.300
a31 = 0.434619 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100404

Date: 10/12/2017
Time: 13:41:48

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

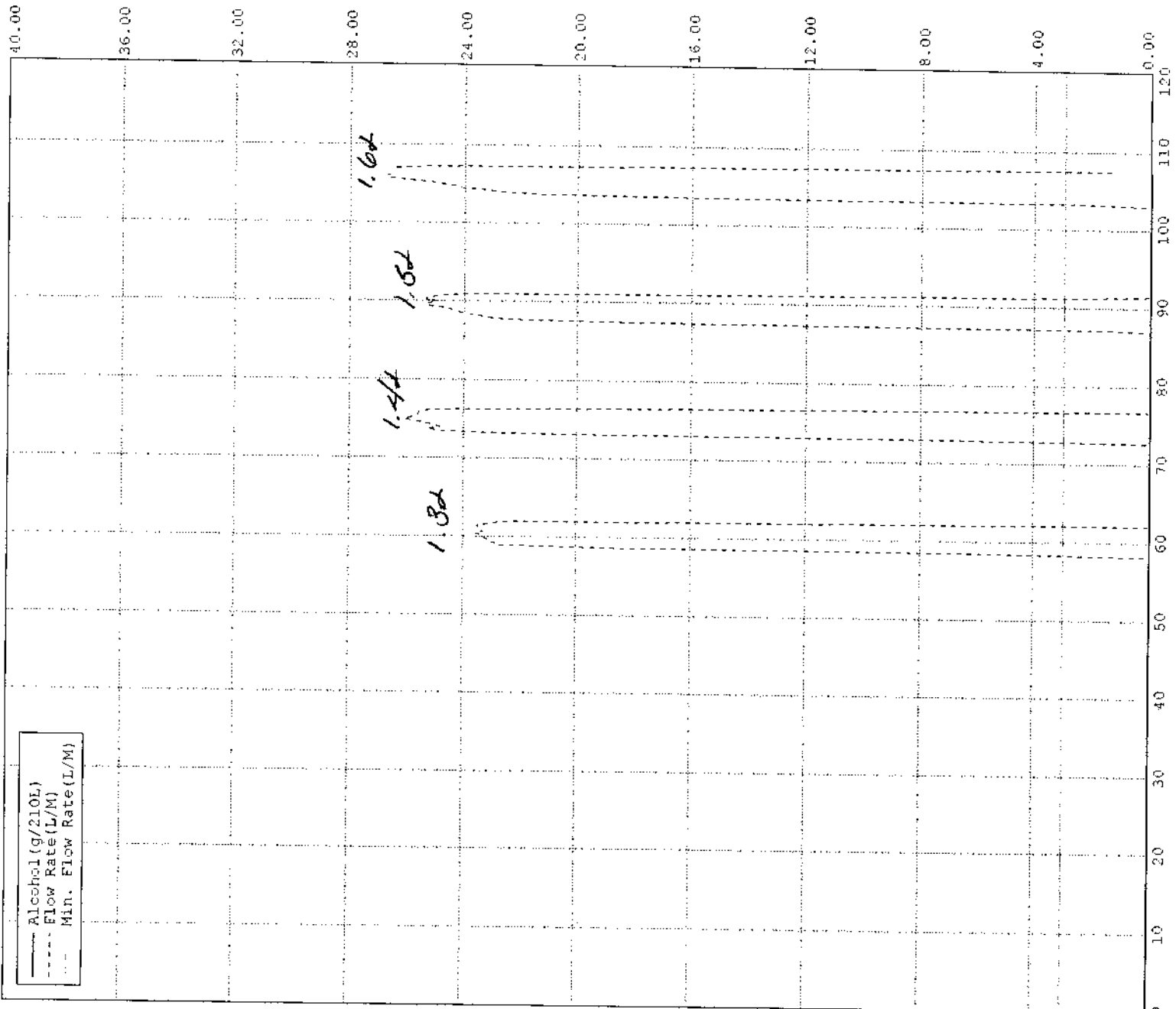
DEPT/AGENCY:
AAA1

CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	13:45
INTERNAL STANDARD	VERIFIED	13:45
EXTERNAL STANDARD	0.079	13:45
BLANK TEST	0.000	13:46
SUBJECT SAMPLE (Vol=1.63L)	0.000	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.079	13:49
BLANK TEST	0.000	13:50



LINEARITY CHECK

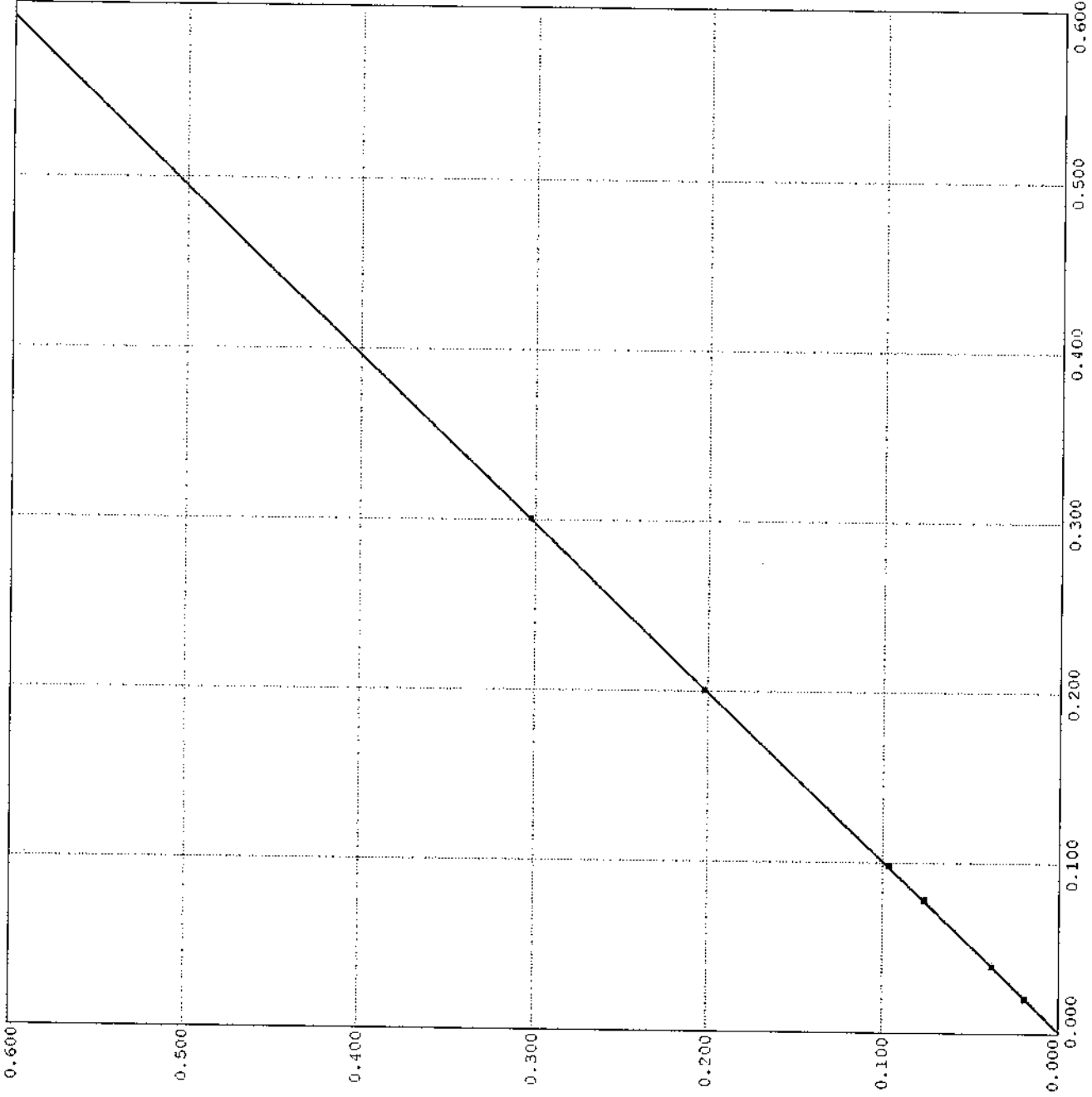
Alaska Department of Public Safety
 DATAMASTER dmt: 100404

Date: 10/17/2017
 Time: 08:26:45

SUPERVISOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0390	0.0000
0.078	0.0774	0.0005
0.098	0.0976	0.0005
0.200	0.2030	0.0007
0.300	0.3034	0.0009

SLOPE = 1.015155
 R² = 0.999949



COS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100404

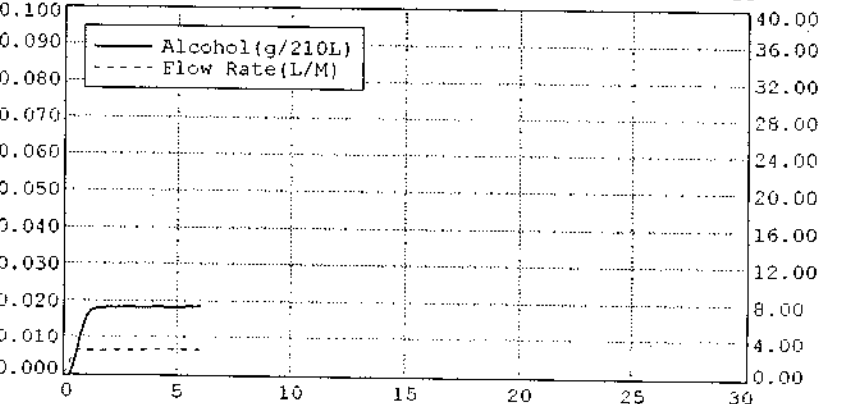
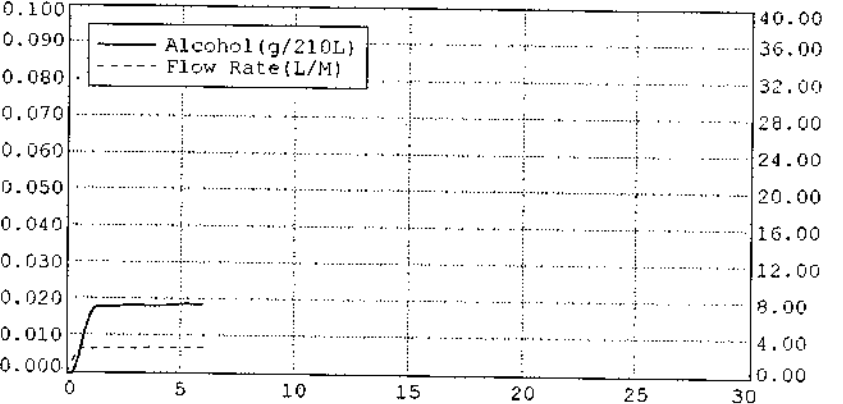
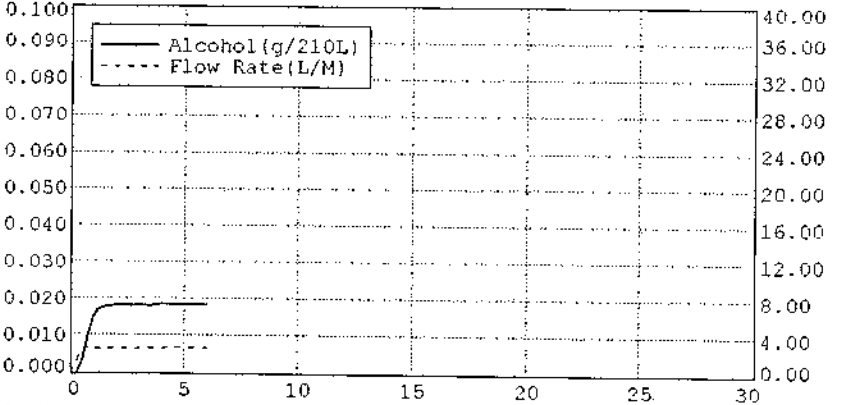
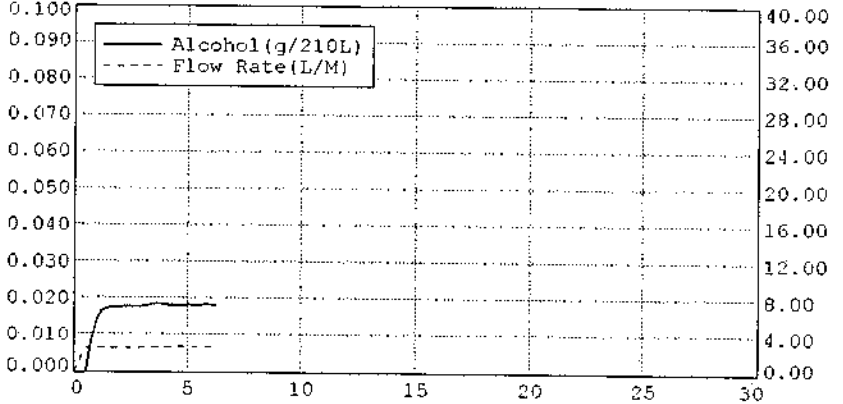
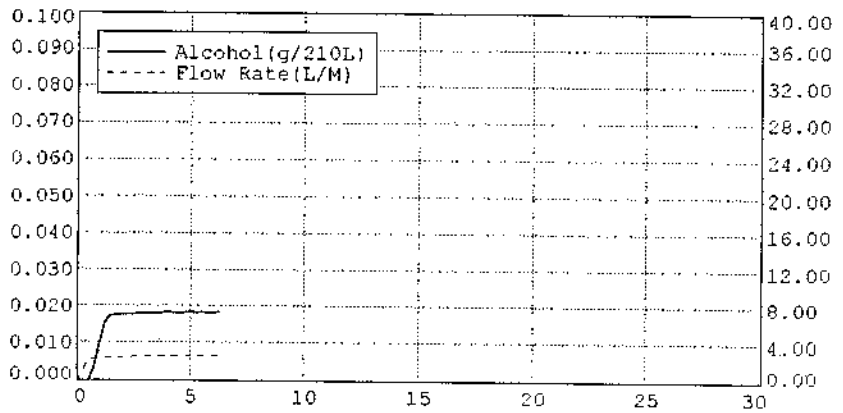
Date: 10/17/2017
 Time: 08:26:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.20: 0.020
 LOT #: AG616504
 EXPIRATION: 06/13/2018
 TANK PRESSURE: 482 psi

BLANK TEST	0.000	08:41
INTERNAL STANDARD	VERIFIED	08:42
EXTERNAL STANDARD	0.020	08:42
BLANK TEST	0.000	08:43
EXTERNAL STANDARD	0.020	08:43
BLANK TEST	0.000	08:44
EXTERNAL STANDARD	0.020	08:44
BLANK TEST	0.000	08:45
EXTERNAL STANDARD	0.020	08:45
BLANK TEST	0.000	08:46
EXTERNAL STANDARD	0.020	08:46
BLANK TEST	0.000	08:47

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100404

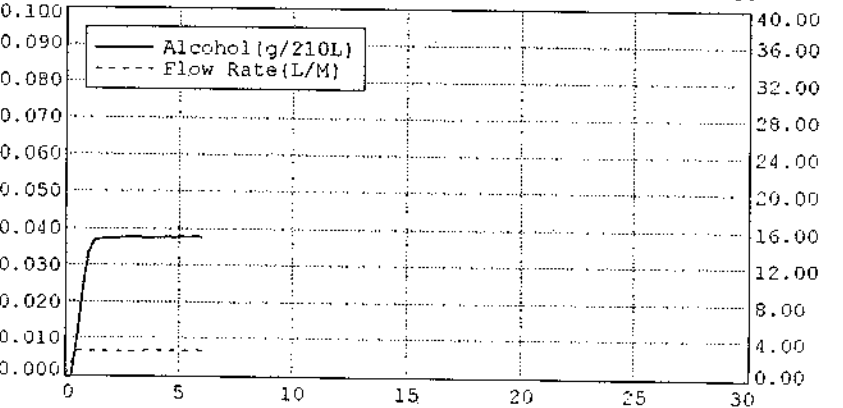
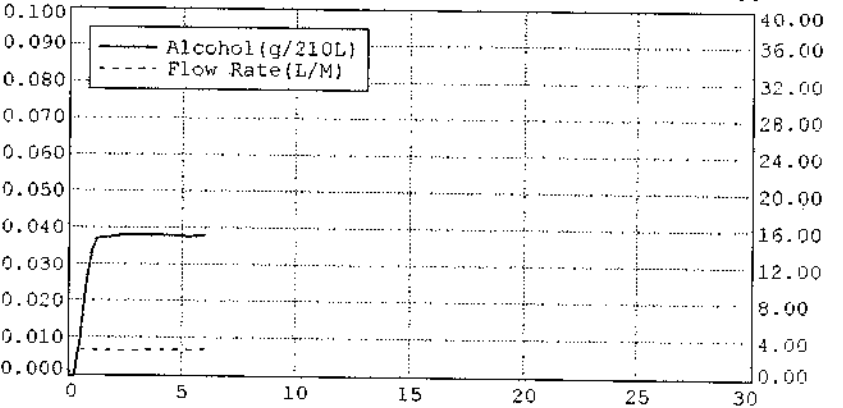
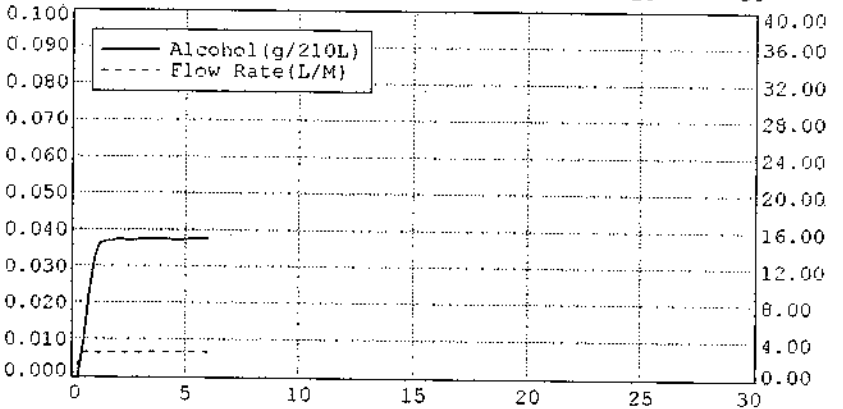
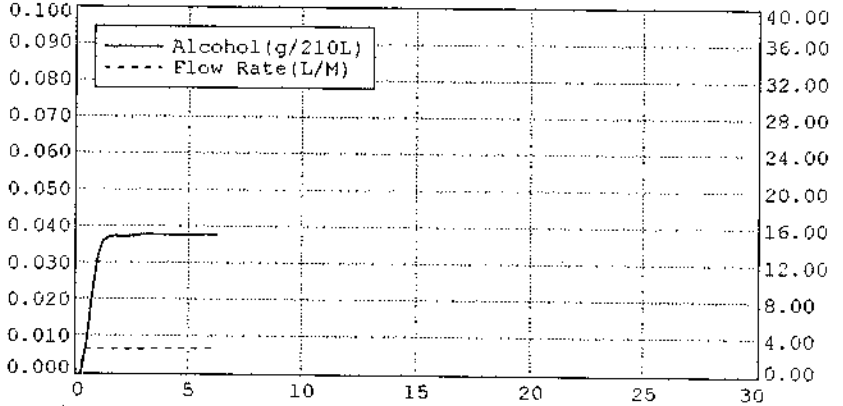
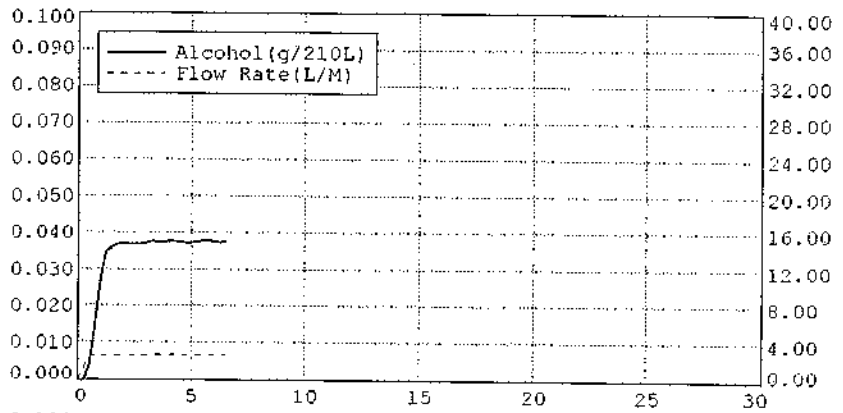
Date: 10/17/2017
 Time: 08:49:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.20: 0.039
 LOT #: AG630101
 EXPIRATION: 10/27/2018
 TANK PRESSURE: 566 psi

BLANK TEST	0.000	08:50
INTERNAL STANDARD	VERIFIED	08:50
EXTERNAL STANDARD	0.039	08:50
BLANK TEST	0.000	08:51
EXTERNAL STANDARD	0.039	08:51
BLANK TEST	0.000	08:52
EXTERNAL STANDARD	0.039	08:52
BLANK TEST	0.000	08:53
EXTERNAL STANDARD	0.039	08:53
BLANK TEST	0.000	08:54
EXTERNAL STANDARD	0.039	08:55
BLANK TEST	0.000	08:55

Average = 0.0390
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100404

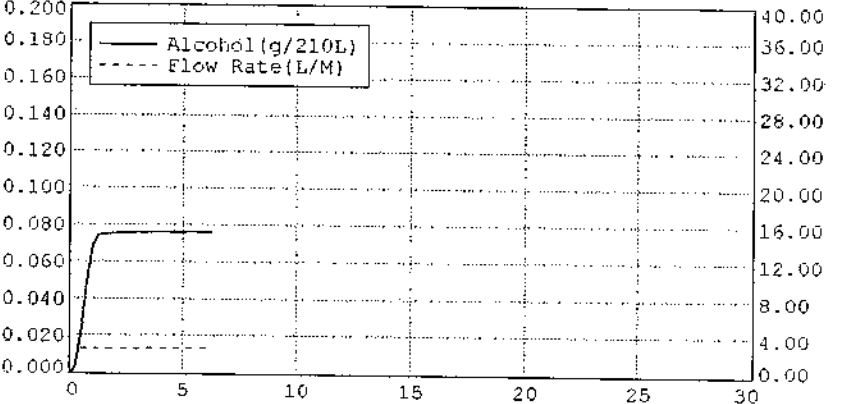
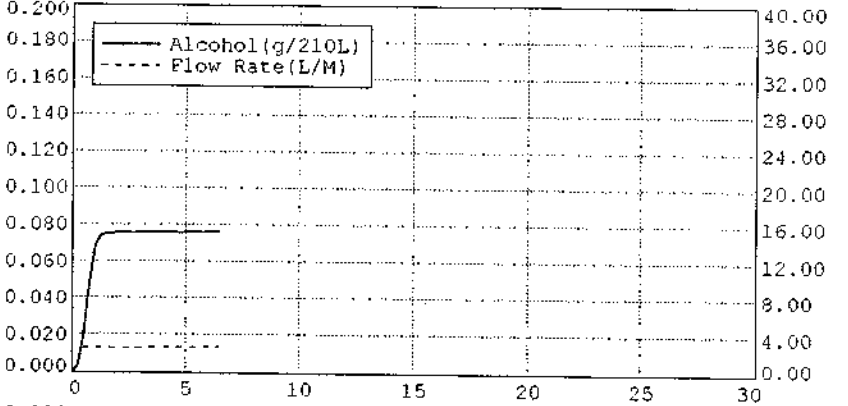
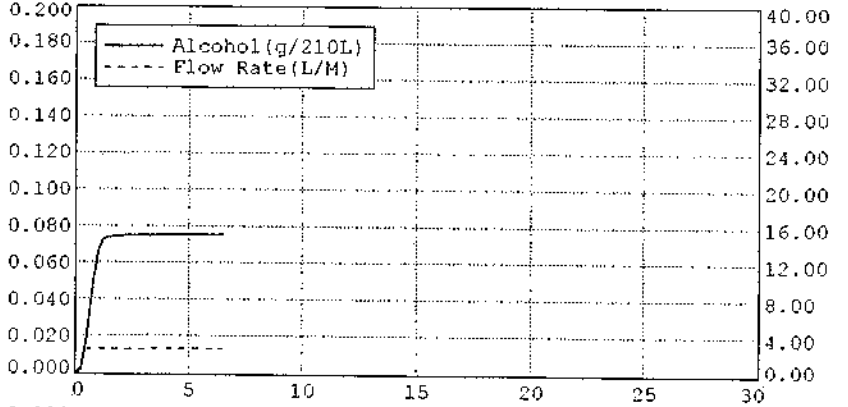
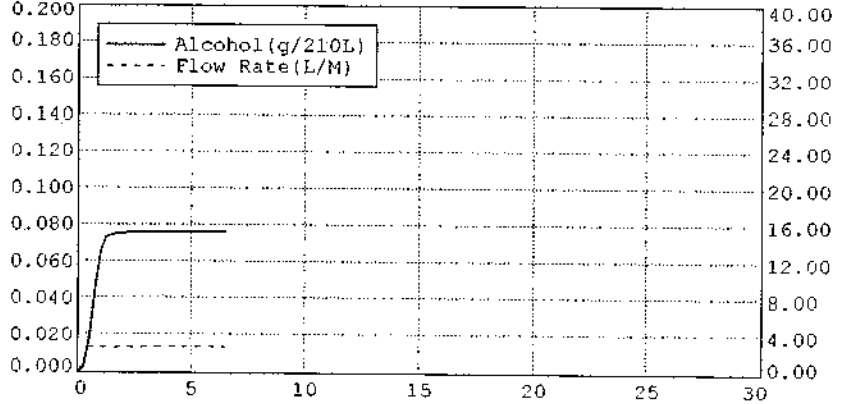
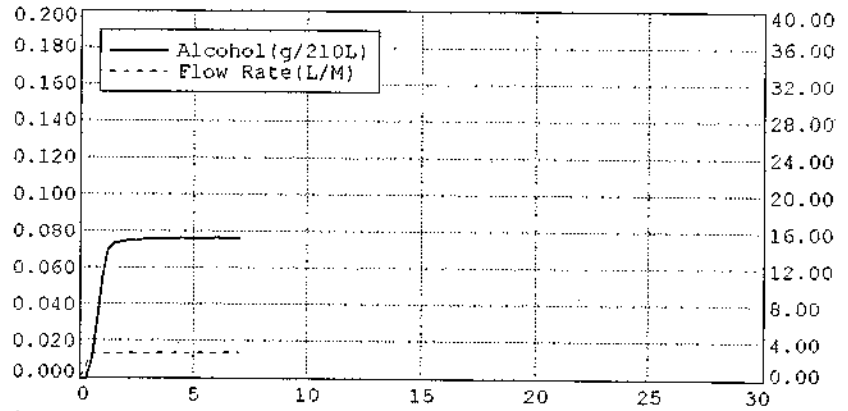
Date: 10/17/2017
 Time: 08:57:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.19: 0.078
 LOT #: AG634001
 EXPIRATION: 12/05/2018
 TANK PRESSURE: 593 psi

BLANK TEST	0.000	08:58
INTERNAL STANDARD	VERIFIED 0.078	08:58
EXTERNAL STANDARD	0.078	08:58
BLANK TEST	0.000	08:59
EXTERNAL STANDARD	0.078	08:59
BLANK TEST	0.000	09:00
EXTERNAL STANDARD	0.077	09:00
BLANK TEST	0.000	09:01
EXTERNAL STANDARD	0.077	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.077	09:02
BLANK TEST	0.000	09:03

Average = 0.0774
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100404

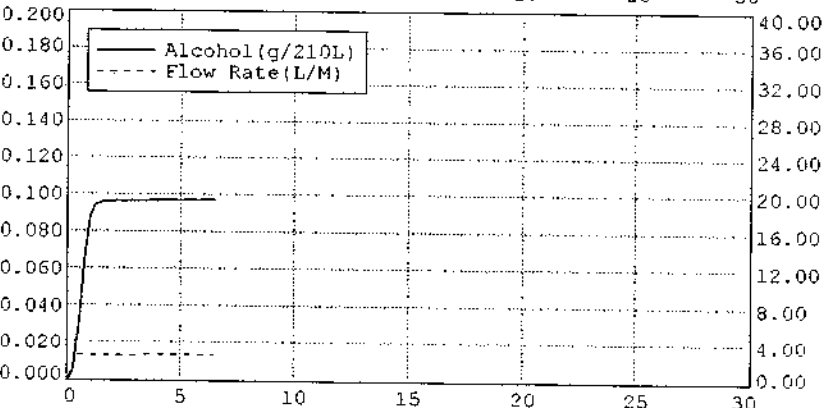
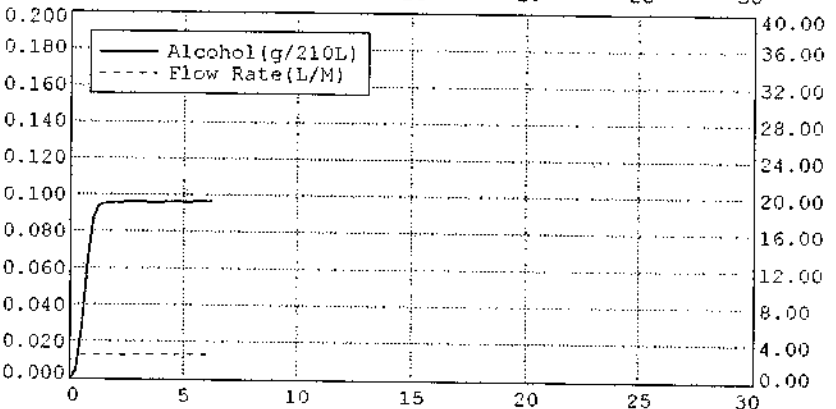
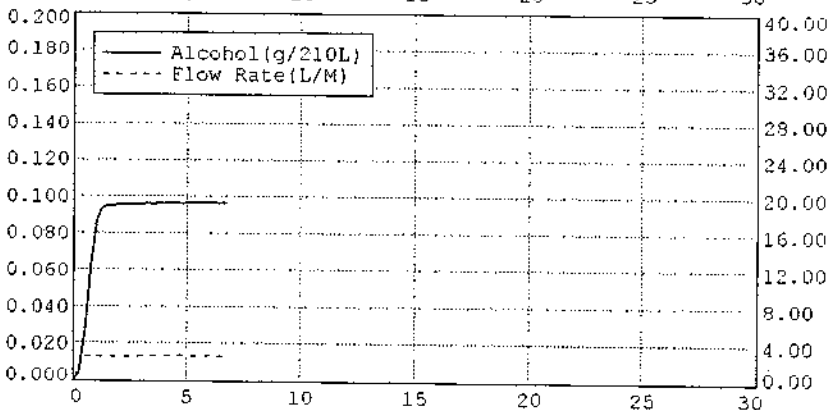
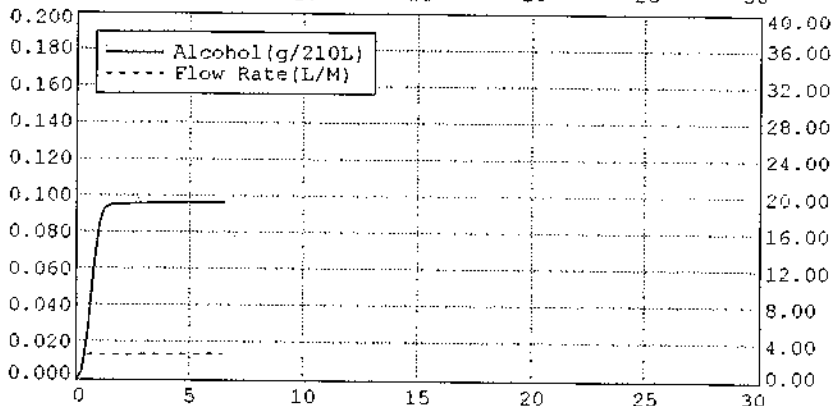
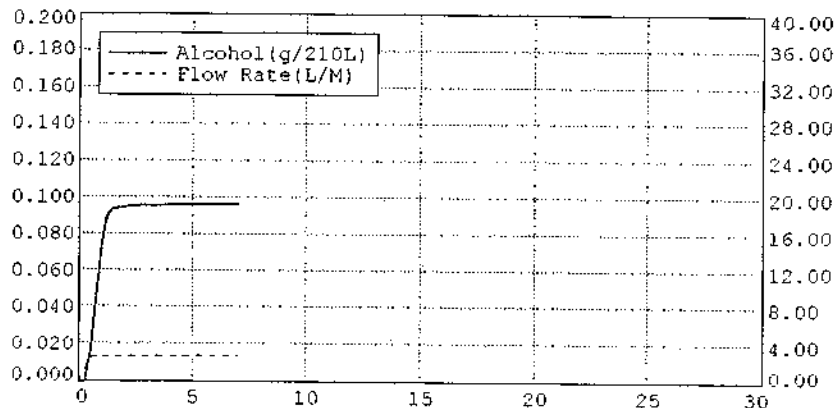
Date: 10/17/2017
 Time: 09:06:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.19: 0.098
 LOT #: AG629304
 EXPIRATION: 10/19/2018
 TANK PRESSURE: 710 psi

BLANK TEST	0.000	09:08
INTERNAL STANDARD	VERIFIED	09:08
EXTERNAL STANDARD	0.097	09:08
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.097	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.098	09:10
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.098	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.098	09:12
BLANK TEST	0.000	09:13

Average = 0.0976
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100404

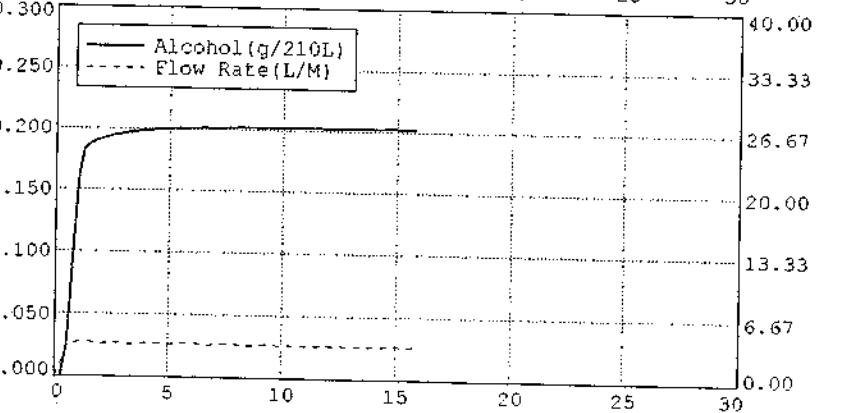
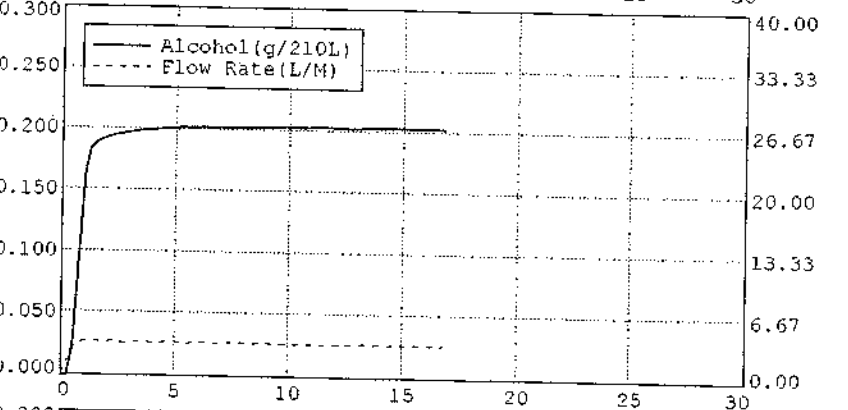
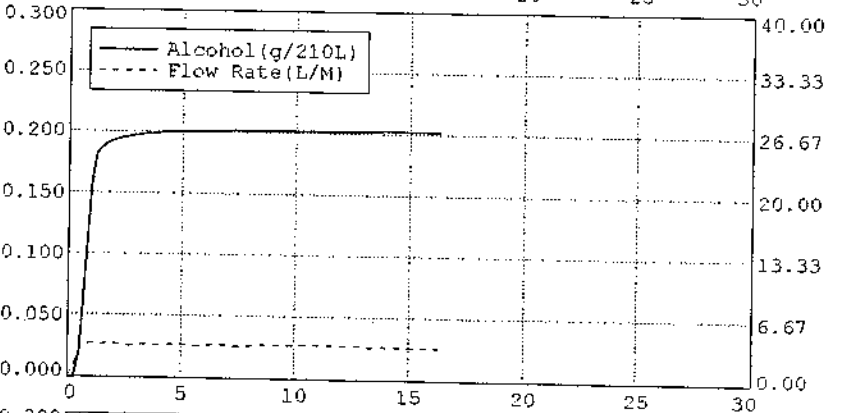
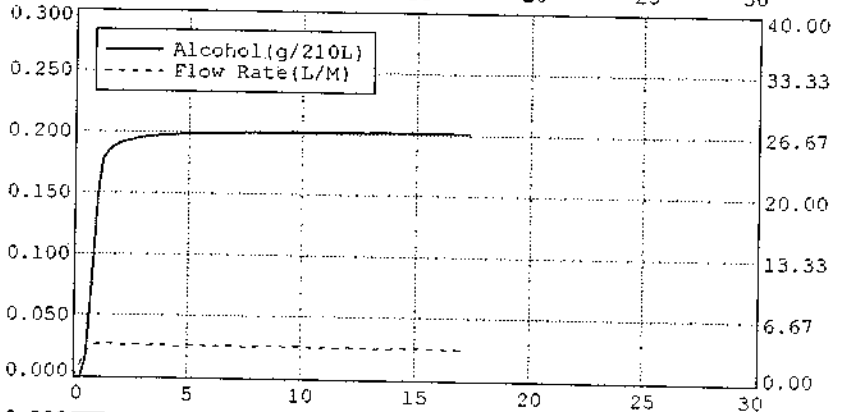
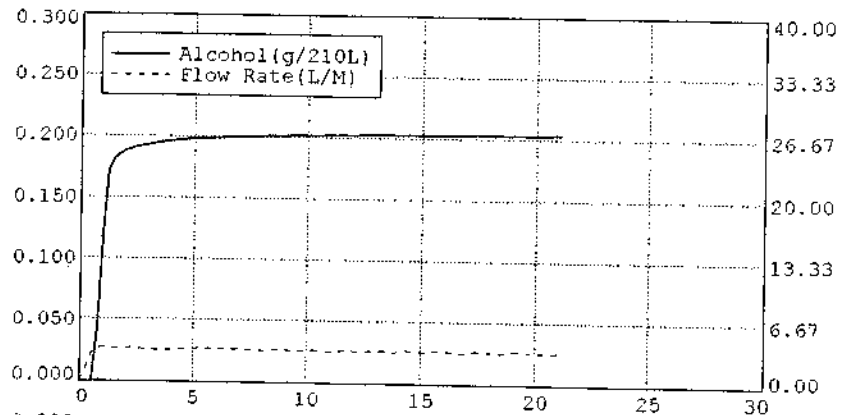
Date: 10/17/2017
 Time: 09:18:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 17090
 EXPIRATION: 02/24/2019

BLANK TEST	0.000	09:20
INTERNAL STANDARD	VERIFIED	09:20
EXTERNAL STANDARD	0.204	09:21
BLANK TEST	0.000	09:22
EXTERNAL STANDARD	0.202	09:22
BLANK TEST	0.000	09:23
EXTERNAL STANDARD	0.203	09:24
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.203	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.203	09:26
BLANK TEST	0.000	09:27

Average = 0.2030
 Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100404

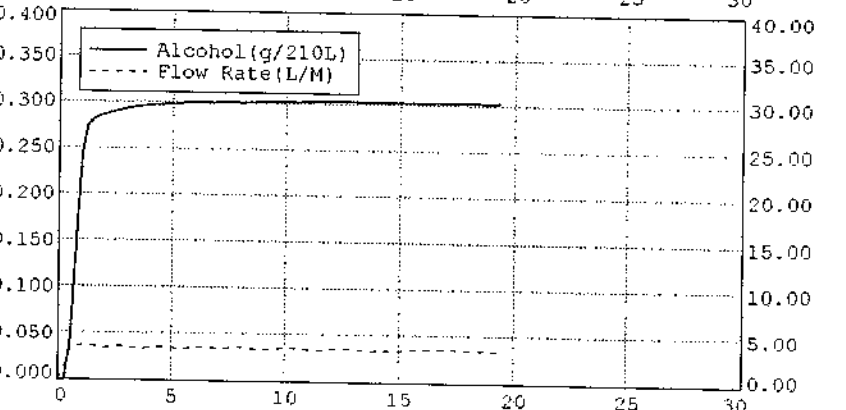
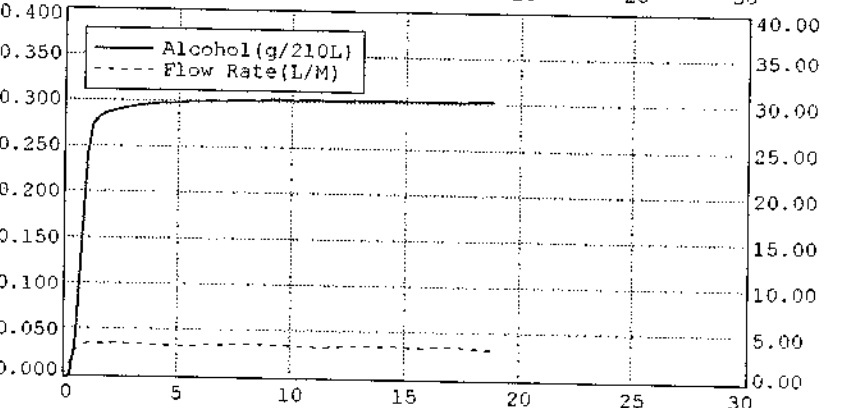
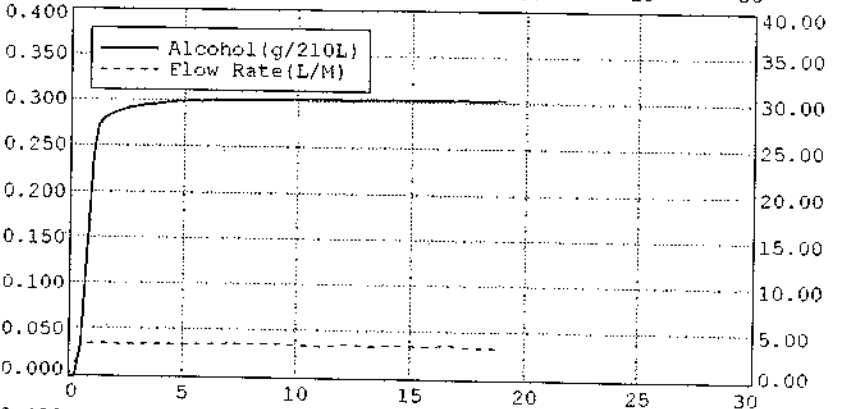
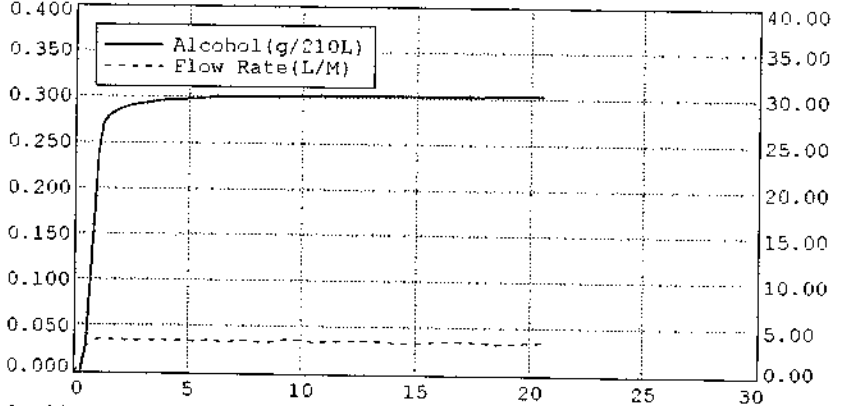
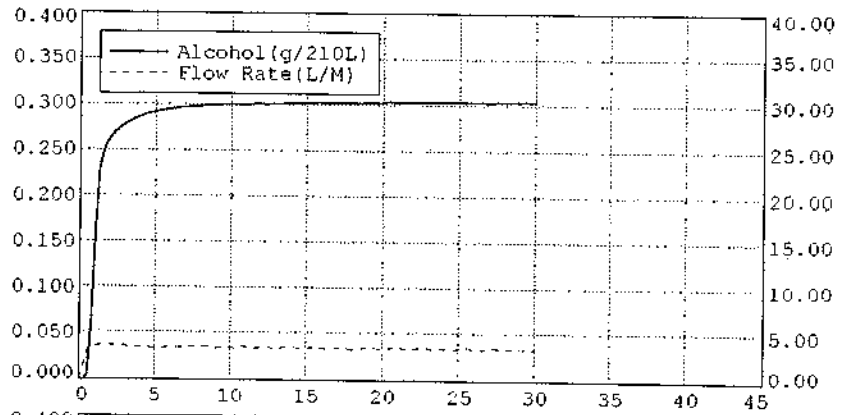
Date: 10/17/2017
 Time: 09:28:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 16410
 EXPIRATION: 12/19/2018

BLANK TEST	0.000	09:29
INTERNAL STANDARD	VERIFIED	09:30
EXTERNAL STANDARD	0.305	09:30
BLANK TEST	0.000	09:31
EXTERNAL STANDARD	0.303	09:32
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.303	09:33
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.303	09:34
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.303	09:36
BLANK TEST	0.000	09:37

Average = 0.3034
 Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 10/17/2017
Time: 10:01:54

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

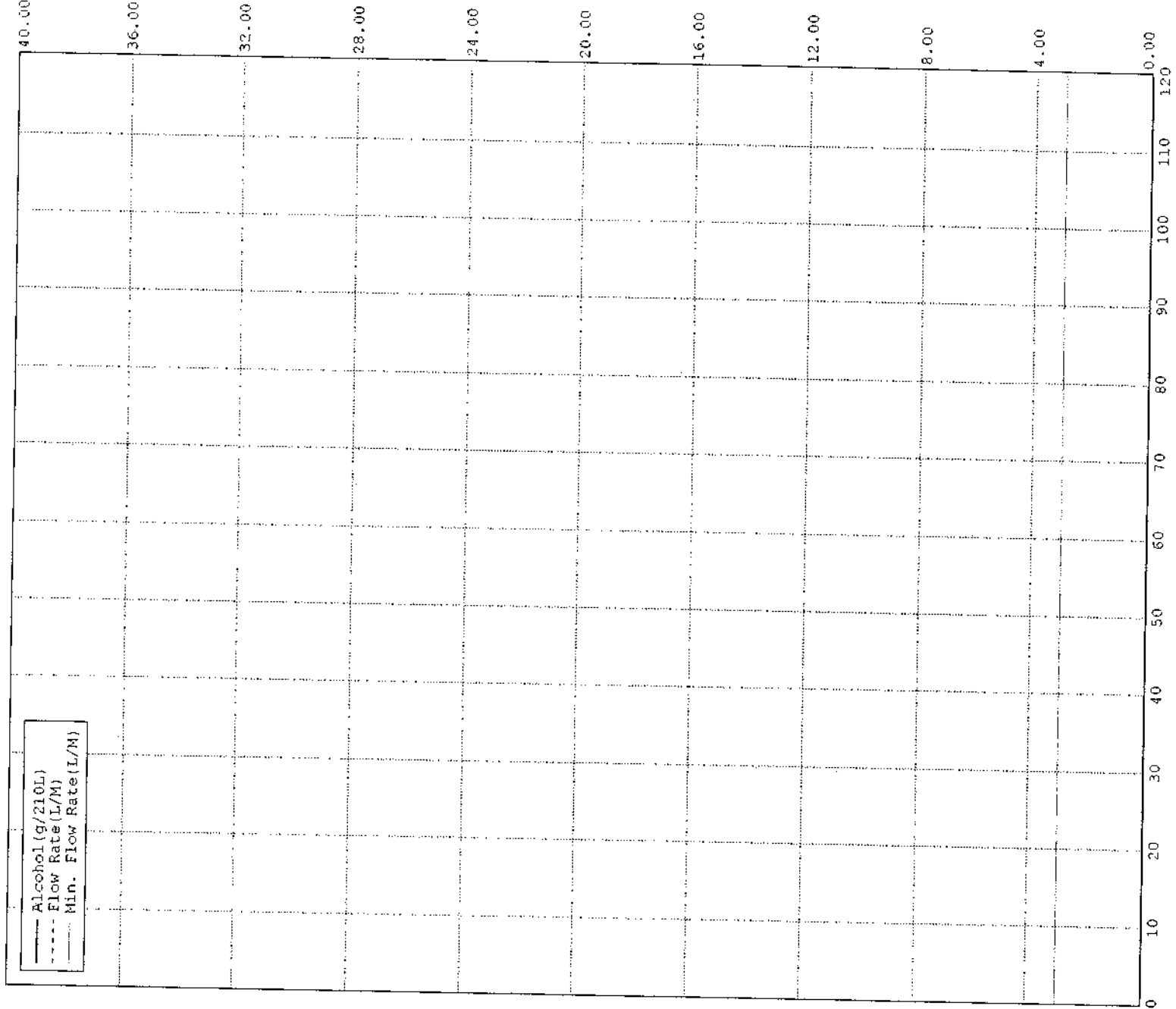
DEPT/AGENCY:

AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 10:02
BLANK TEST 0.000 10:03
INTERNAL STANDARD VERIFIED 10:03
EXTERNAL STANDARD 0.077 10:03
BLANK TEST 0.000 10:04
SUBJECT SAMPLE INCOMPLETE 10:06



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100404

Date: 10/17/2017
Time: 10:12:05

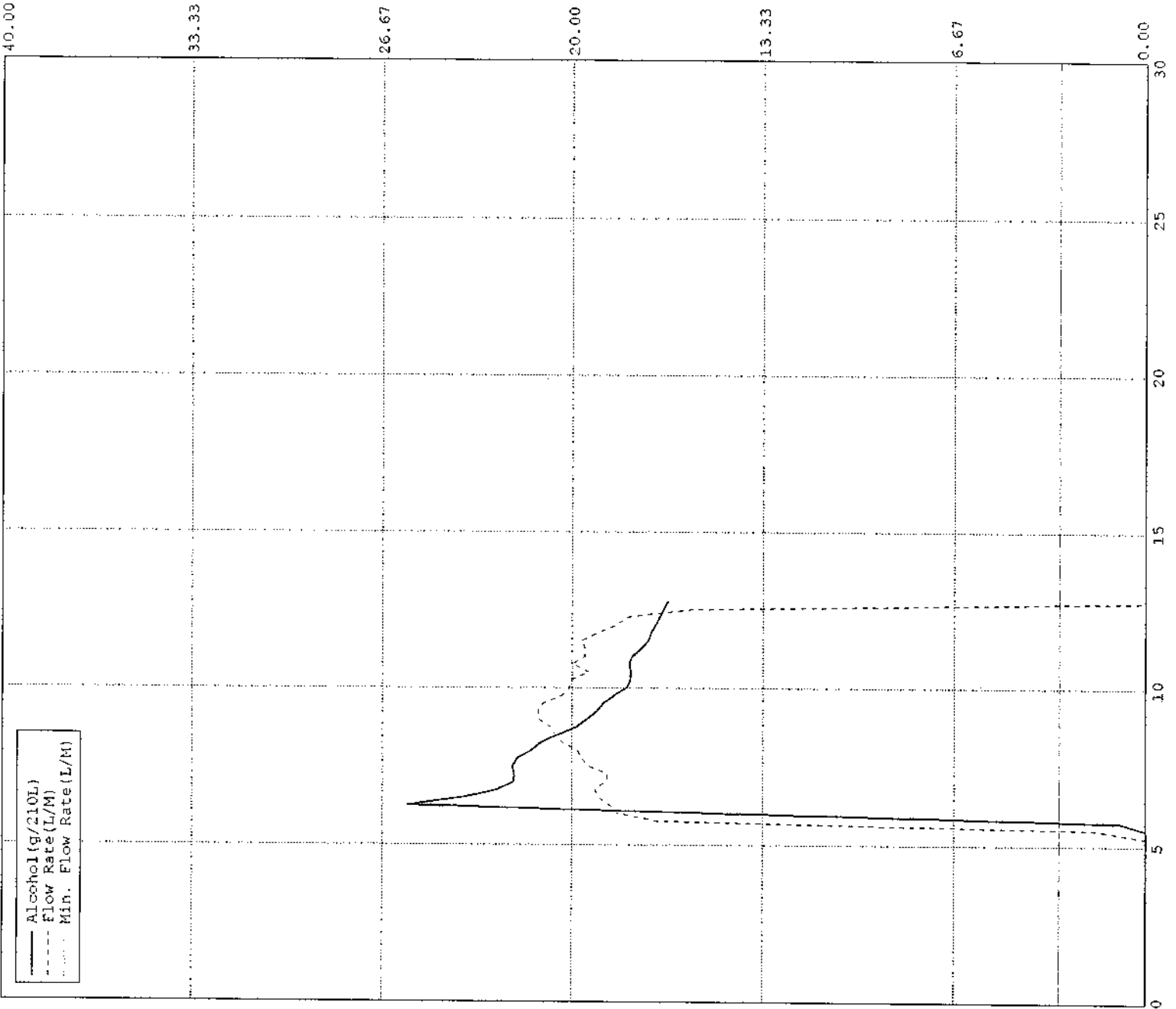
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 10:13
BLANK TEST 0.000 10:13
INTERNAL STANDARD VERIFIED 10:13
EXTERNAL STANDARD 0.077 10:13
BLANK TEST 0.000 10:14
SUBJECT SAMPLE INVALID 10:14



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 10/17/2017
Time: 09:40:51

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

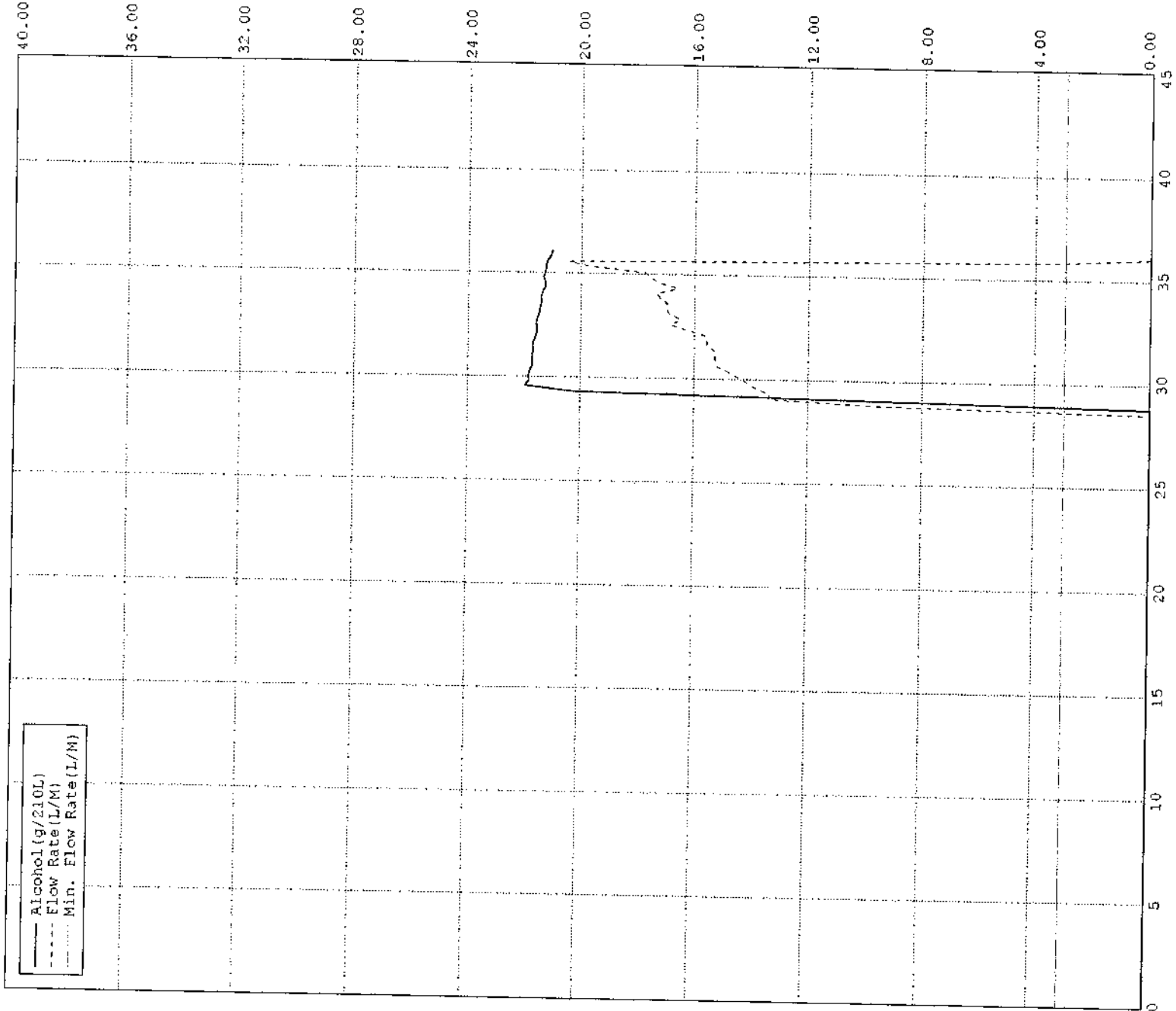
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	09:43
BLANK TEST	0.000	09:43
INTERNAL STANDARD	VERIFIED	09:43
Xq = 0.089 (0.69%)		
EXTERNAL STANDARD	0.077	09:43
X[1] = 0.0774 (-0.0028)	(0.0032)	
BLANK TEST	0.000	09:44
SUBJECT SAMPLE	XXX	09:45
X[1] = 0.1054 (-0.0125)	(0.0031)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 10/17/2017
Time: 09:47:29

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

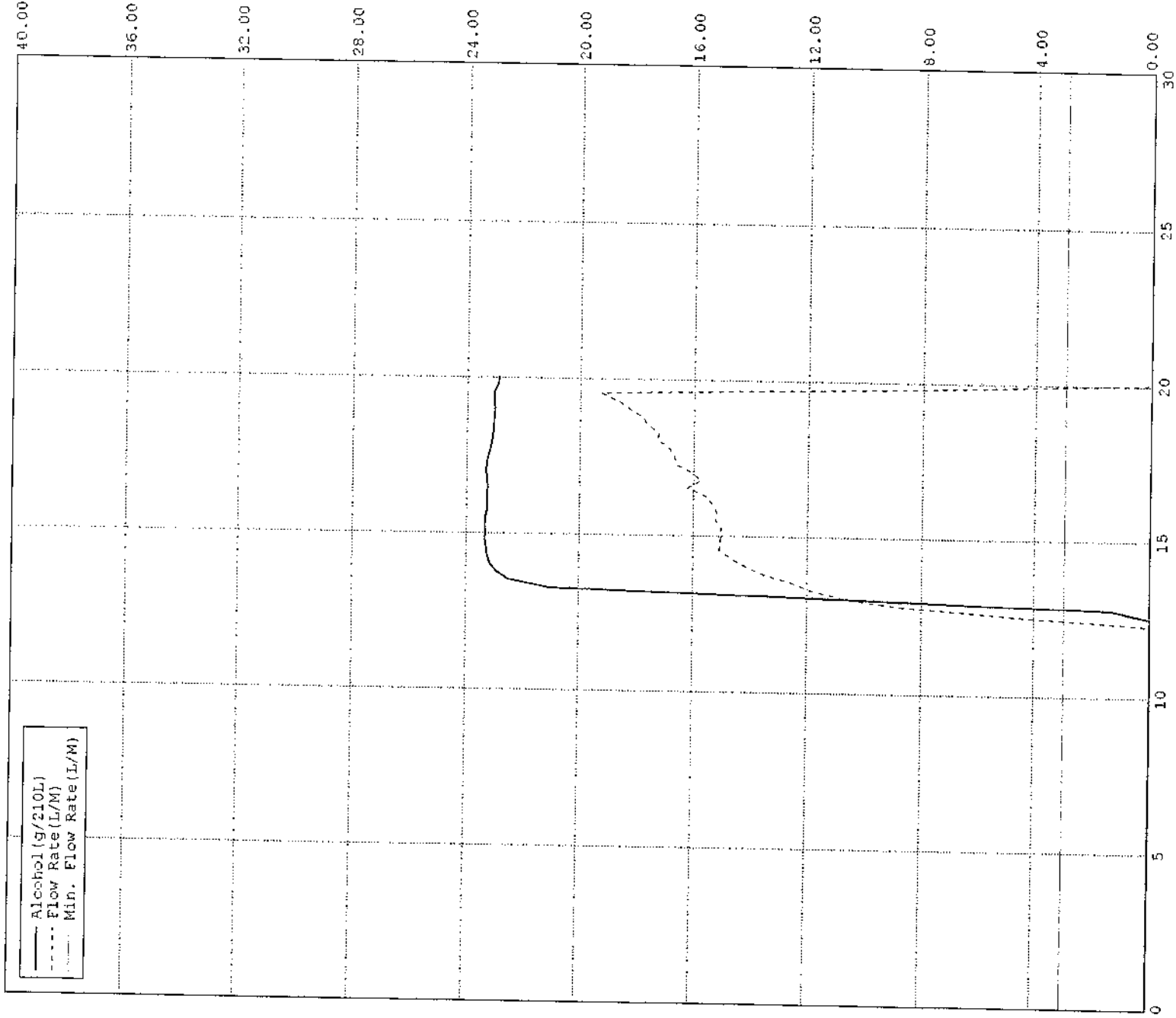
DEPT/AGENCY:
AAAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	09:48
BLANK TEST	0.000	09:48
INTERNAL STANDARD	VERIFIED	09:48
Xq = 0.089 (0.69%)		
EXTERNAL STANDARD	0.078	09:48
X[1] = 0.0776 (-0.0025)	(0.0032)	
BLANK TEST	0.000	09:49
SUBJECT SAMPLE	XXX	09:50
X[1] = 0.1147 (-0.0271)	(0.0022)	

Interference Detected

CRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 10/17/2017
Time: 09:53:00

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1

CASE/REPORT: 17-1234
TEST TYPE: TEST

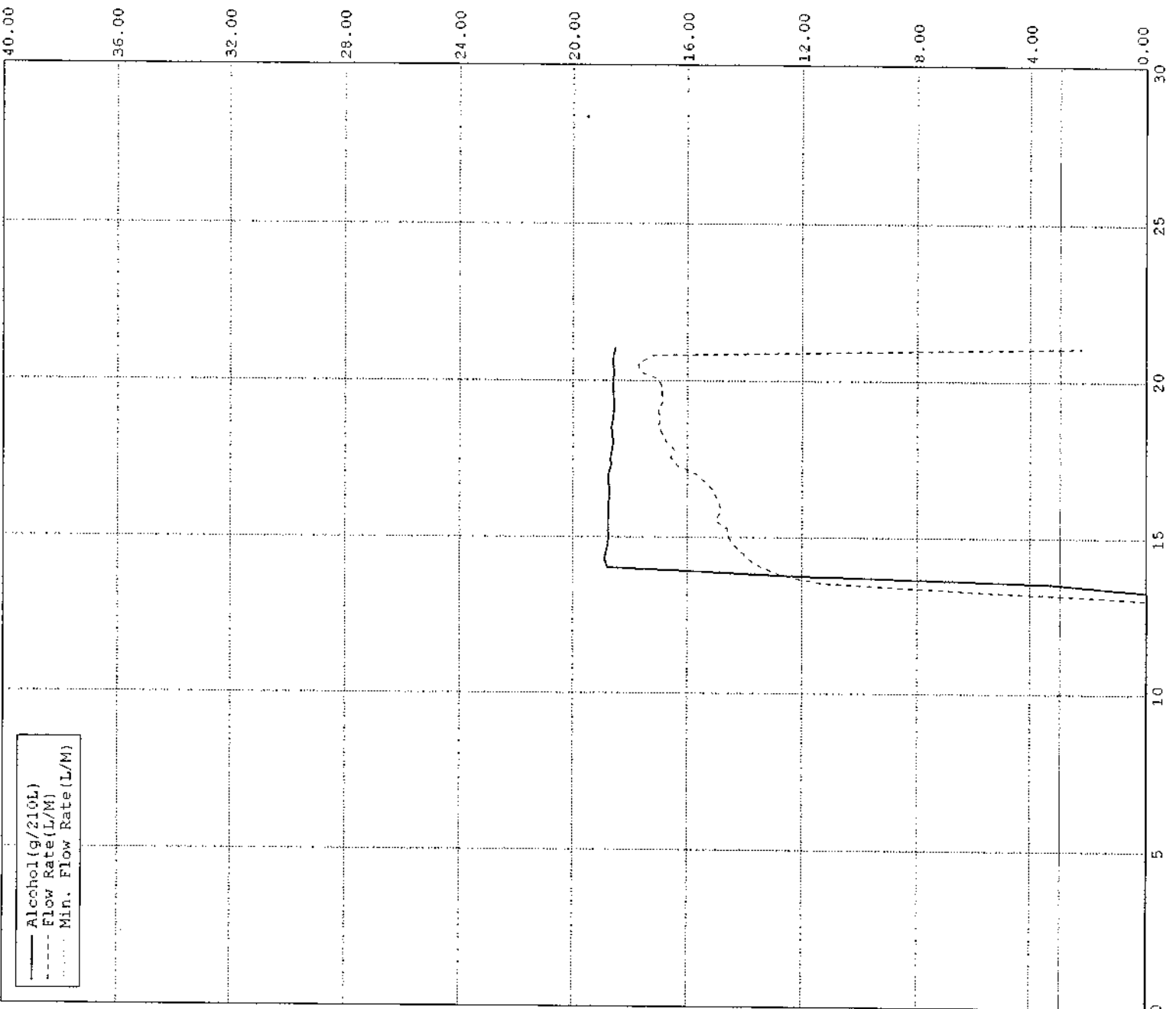
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	09:54
BLANK TEST	0.000	09:54
INTERNAL STANDARD	VERIFIED	09:54
XQ = 0.090 (0.88%)		
EXTERNAL STANDARD	0.077	09:54
X[1] = 0.0773 (-0.0032)	(0.0028)	
BLANK TEST	0.000	09:55
SUBJECT SAMPLE (Vol=1.98L)	0.092	09:55
X[1] = 0.0927 (-0.0014)	(0.0013)	
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.077	09:57
X[1] = 0.0773 (-0.0022)	(0.0028)	
BLANK TEST	0.000	09:58

Filter 3 avg = 0.0030
Filter 2 avg = -0.00308 10/17/17
-0.0027

CS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 10/17/2017
Time: 10:17:52

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

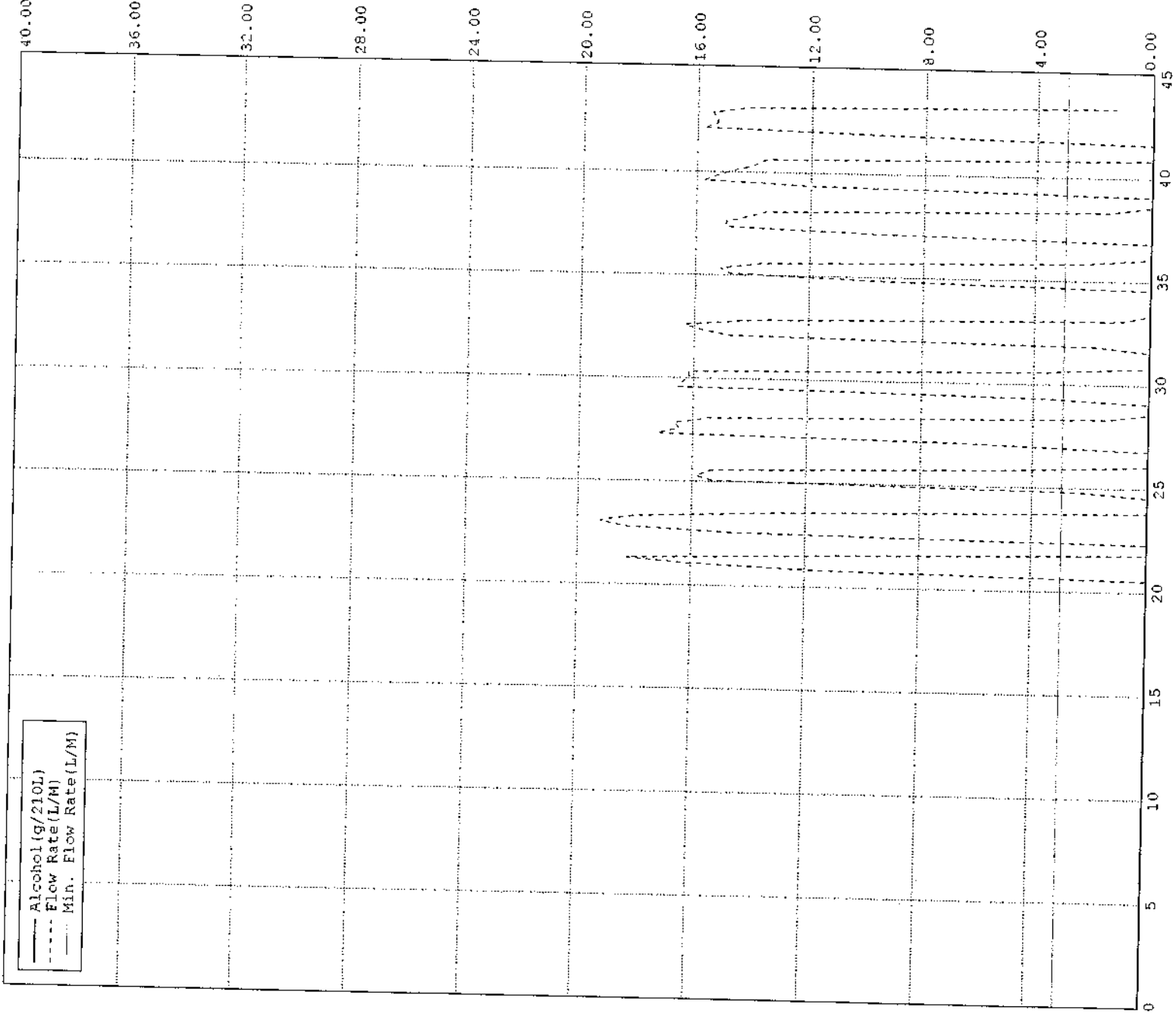
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	10:21
BLANK TEST	0.000	10:21
INTERNAL STANDARD	VERIFIED	10:21
EXTERNAL STANDARD	0.077	10:21
BLANK TEST	0.000	10:22
SUBJECT SAMPLE	XXX	10:23

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100404

Date: 10/17/2017
Time: 10:31:02

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1

CASE/REPORT: 17-1234
TEST TYPE: TEST

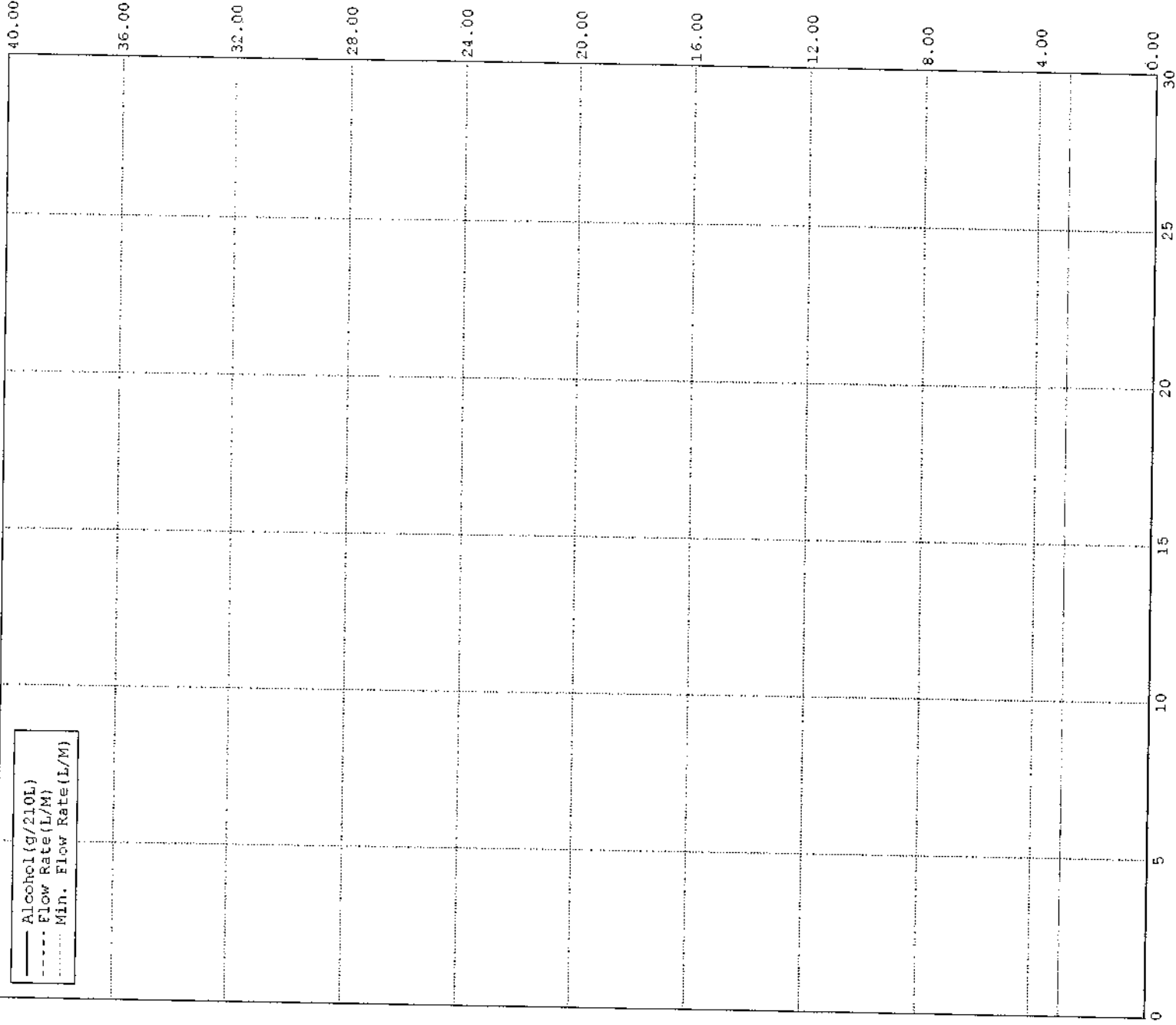
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 10:32
BLANK TEST 0.000 10:32
INTERNAL STANDARD VERIFIED 10:32
EXTERNAL STANDARD 0.077 10:32
BLANK TEST 0.000 10:33

RFI DETECTED

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 10/17/2017
Time: 10:49:03

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.18: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	10:51
BLANK TEST	0.000	10:51
INTERNAL STANDARD	VERIFIED	10:51
EXTERNAL STANDARD	0.078	10:51
BLANK TEST	0.000	10:52
SUBJECT SAMPLE (Vol=1.97L)	0.000	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.078	10:53
BLANK TEST	0.000	10:54

