

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 100400 Analyst C. O. Bryant Start Date 2/12/18

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 1.4 ^{ccs 2/12/18} L (1.3L to 1.7L)

4. Linearity Test (attached) 1.62

a. Levels Used

i. 0.020g/210L Mnf Argas Lot AG616504 Exp 6/13/18

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

iii. 0.080g/210L Mnf Argas Lot AG634001 Exp 12/5/18

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

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

1. Simulator S/N SD1200 Date Calibrated 3/29/17

vi. 0.300g/210L Mnf Guth Lot 17140 Exp 5/15/19

1. Simulator S/N DD4162 Date Calibrated 3/27/17

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 17060 Level 0.100 Exp 2/14/19

1. Simulator S/N SD1177 Date Calibrated 1/24/18

ii. Isopropanol - Mnf Guth Lot 17280 Level 0.100 Exp 9/11/19

1. Simulator S/N SD1199 Date Calibrated 1/24/18

iii. Negative Control - Mnf Guth Lot 17060 Level 0.100 Exp 2/14/19

1. Simulator S/N SD1088 Date Calibrated 1/24/18

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 2/12/18

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 02/12/2018
Time: 08:25:38

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

TEMPERATURES

Sample Chamber = 49.3°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
(1.01 V - 2.37 V)
Cooler Voltage = 1.67 V PASSED
(0.95 V - 2.23 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 523 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.503 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.003 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 = 0.106 0.08% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100400

Date: 02/12/2018

Time: 8:52 AM

Temperatures (°C)

Sample Cell: 49.1°C

Breath Tube: 47.5°C

Current Barometer 29.4 in

Volume (Ltr) 1.53

Settings

Lamp: 1.68 V

Bias: 80 V

Cooler: 1.67 V

Chopper: 514 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.016 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 01/19/2018
Time: 10:55:38

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca	=	0.1000		
CAL	=	0.960593	0.800	<= CAL < 1.200
b1	=	0.0005	0.0000	<= b1 < 0.0040
b2	=	0.0047	0.0010	<= b2 < 0.0100
b3	=	0.0001	0.0000	<= b3 < 0.0040
Xq	=	0.1063	0.0500	<= Xq < 0.2000
a21	=	1.196469	1.050	<= a21 < 1.300
a31	=	0.466641	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 02/12/2018
Time: 08:53:07

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

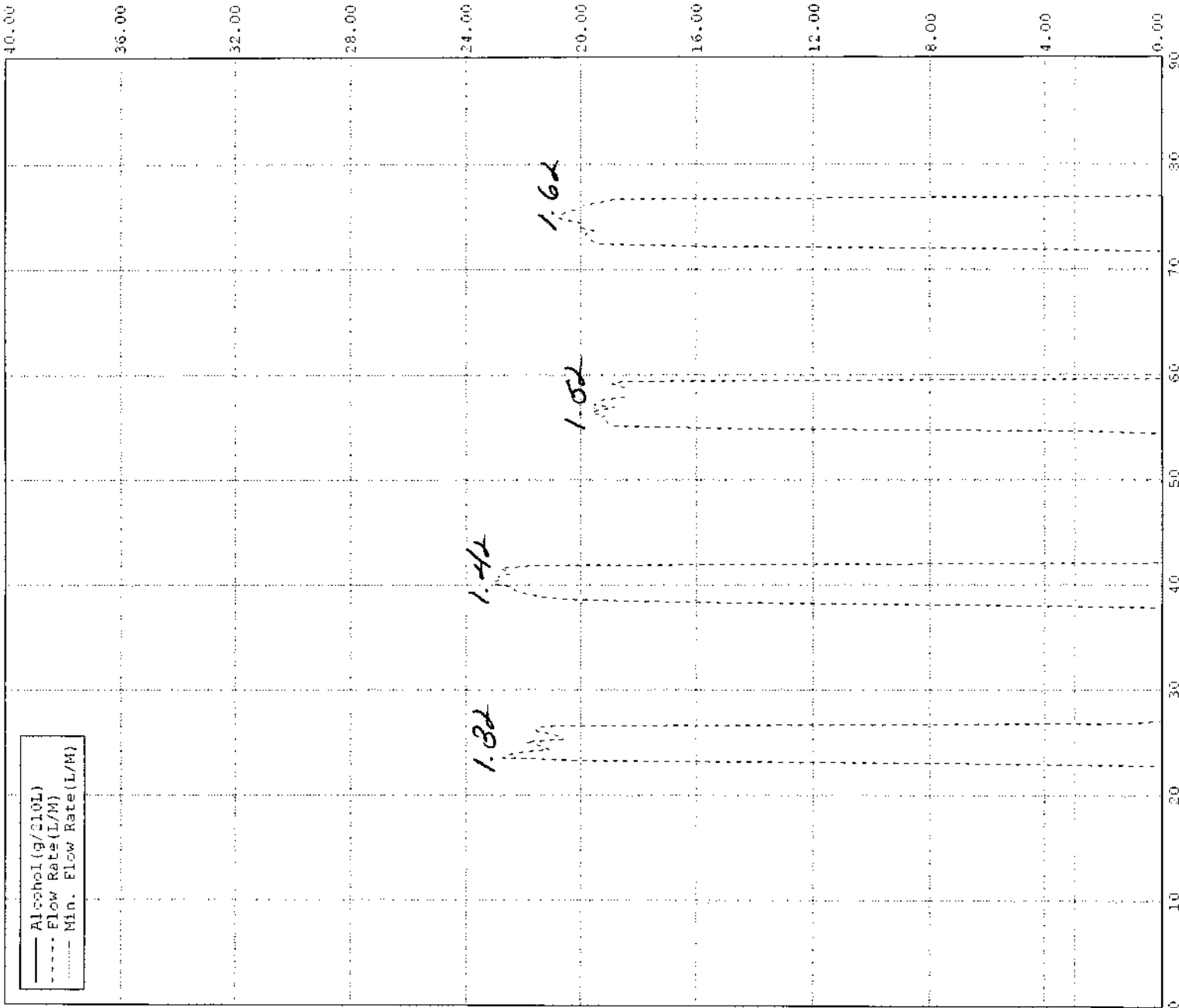
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.35: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 08:54
BLANK TEST 0.000 08:54
INTERNAL STANDARD VERIFIED 08:54
INTERNAL STANDARD 0.076 08:54
BLANK TEST 0.000 08:55
SUBJECT SAMPLE (Vol=1.58L) 0.000 08:56
BLANK TEST 0.000 08:57
EXTERNAL STANDARD 0.077 08:58
BLANK TEST 0.000 08:58

COB



LINEARITY CHECK

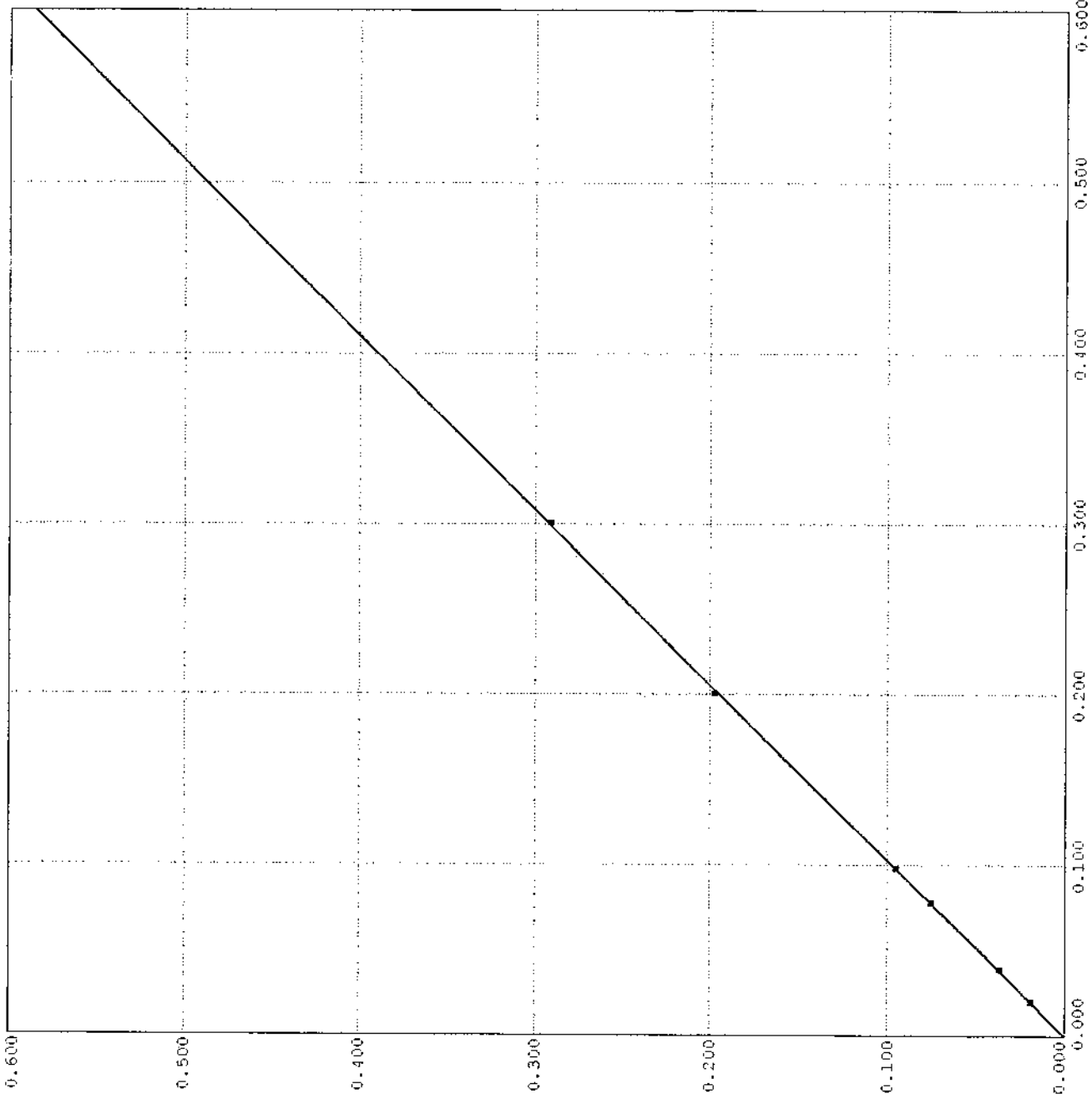
Alaska Department of Public Safety
 DATAMASTER cmt: 100400

Date: 02/12/2018
 Time: 09:08:12

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0380	0.0000
0.078	0.0762	0.0004
0.098	0.0960	0.0000
0.200	0.1982	0.0004
0.300	0.2920	0.0007

SLOPE = 0.976605
 R² = 0.999846



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

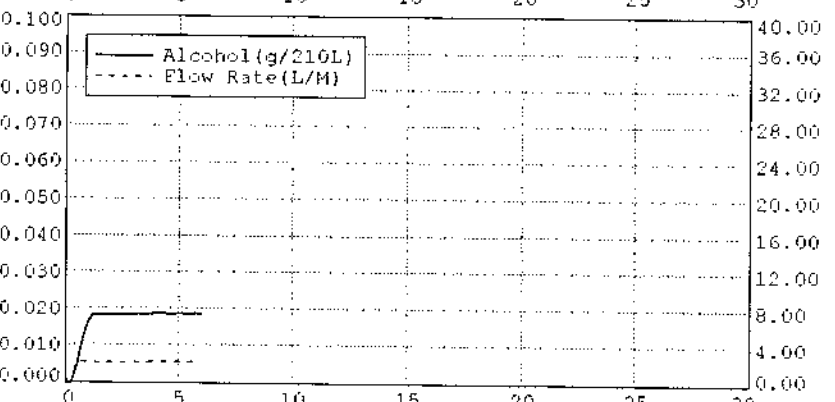
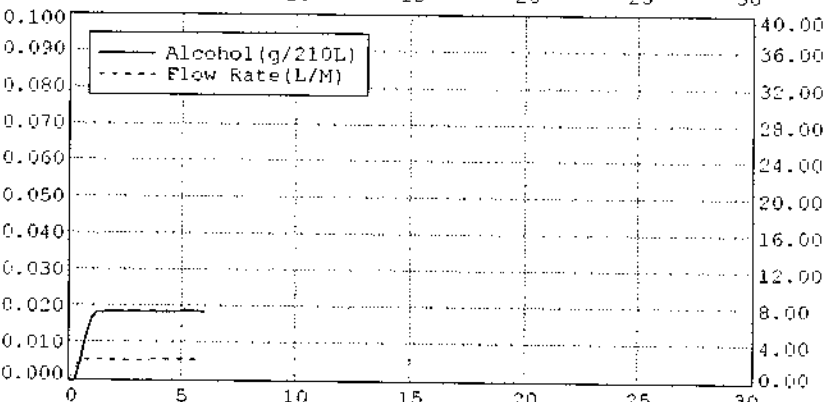
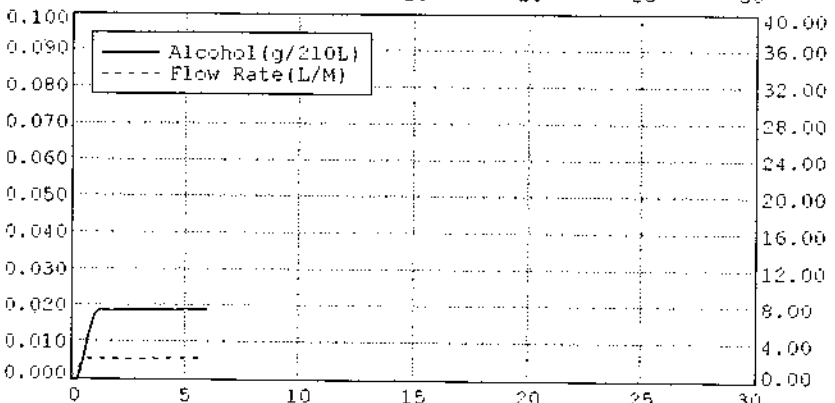
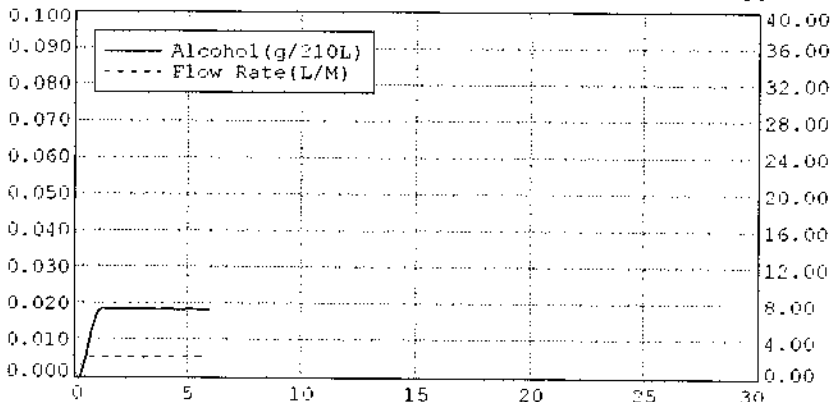
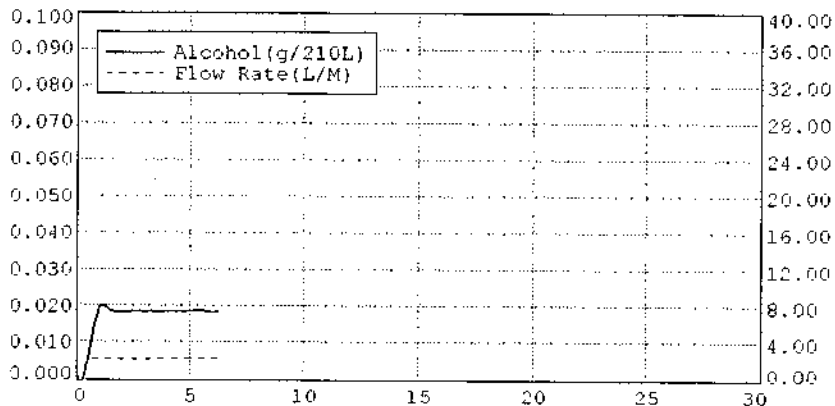
Date: 02/12/2018
 Time: 09:08:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.35: 0.020
 LOT #: AG616504
 EXPIRATION: 06/13/2018
 TANK PRESSURE: 266 psi

BLANK TEST	0.000	09:46
INTERNAL STANDARD	VERIFIED	09:46
EXTERNAL STANDARD	0.020	09:46
BLANK TEST	0.000	09:47
EXTERNAL STANDARD	0.020	09:47
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.020	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.020	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.020	09:50
BLANK TEST	0.000	09:51

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100400

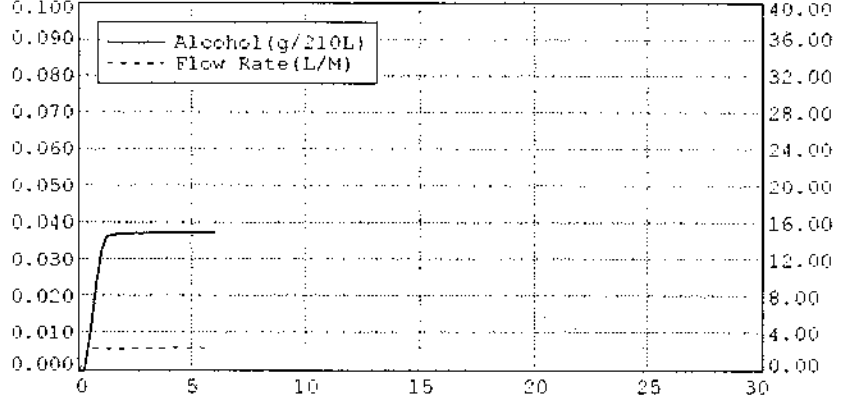
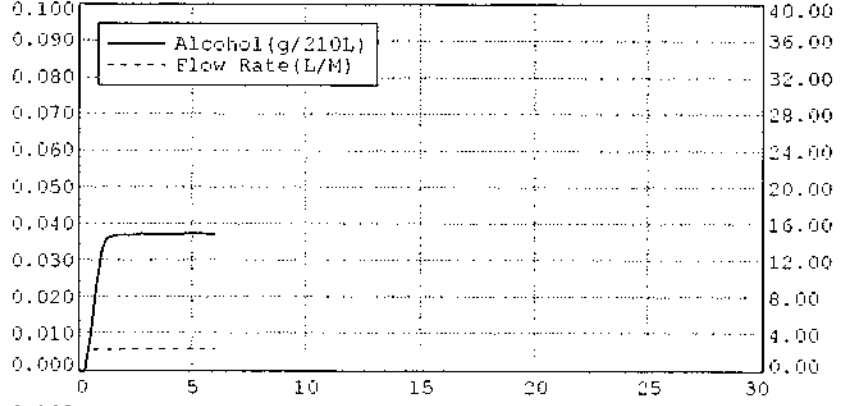
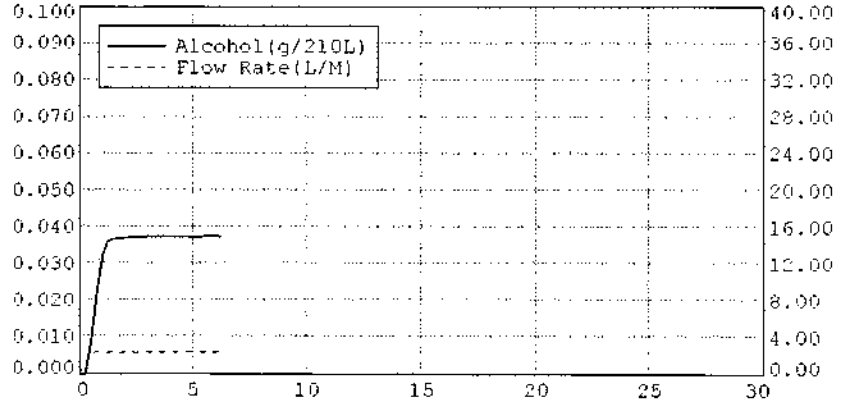
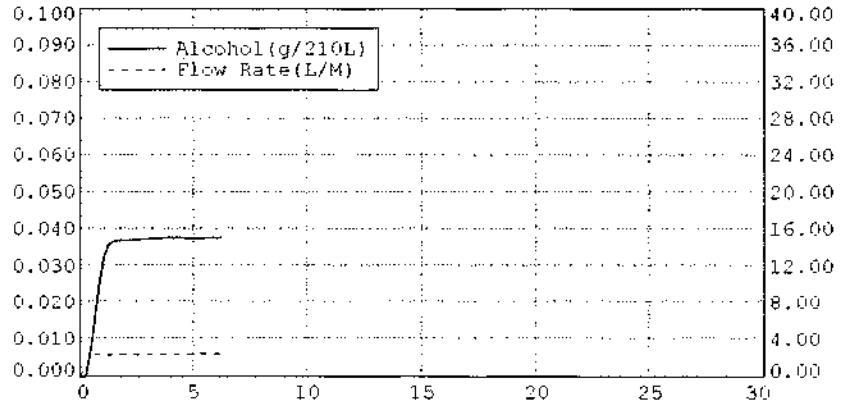
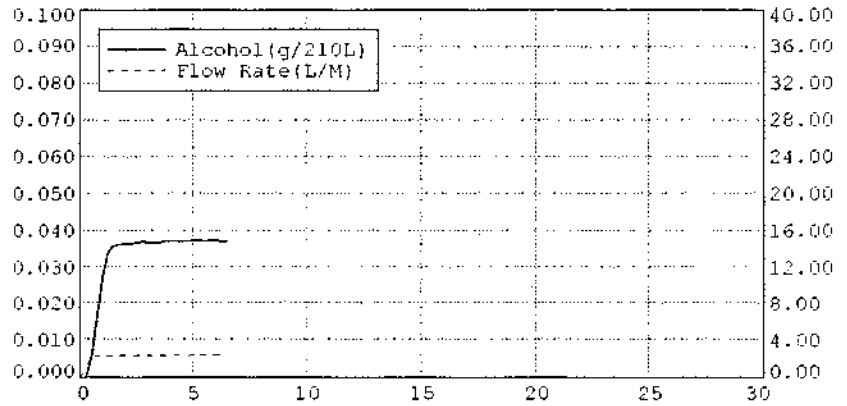
Date: 02/12/2018
Time: 09:58:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.35: 0.039
LOT #: AG630101
EXPIRATION: 10/27/2018
TANK PRESSURE: 351 psi

BLANK TEST	0.000	10:00
INTERNAL STANDARD	VERIFIED	10:00
EXTERNAL STANDARD	0.038	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.038	10:02
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.038	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.038	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.038	10:05
BLANK TEST	0.000	10:06

Average = 0.0380
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

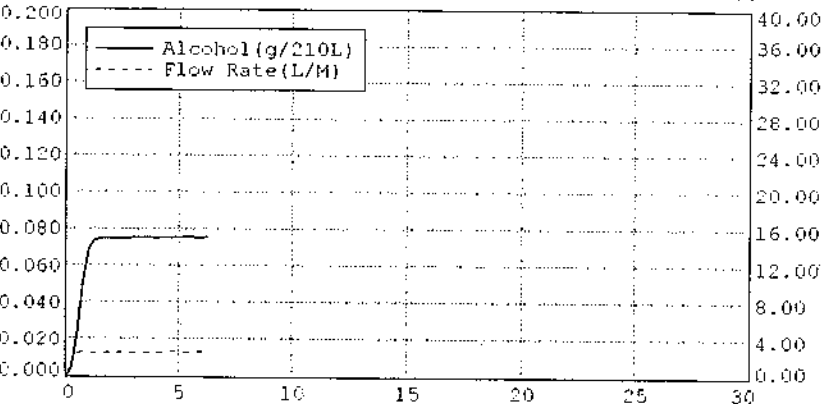
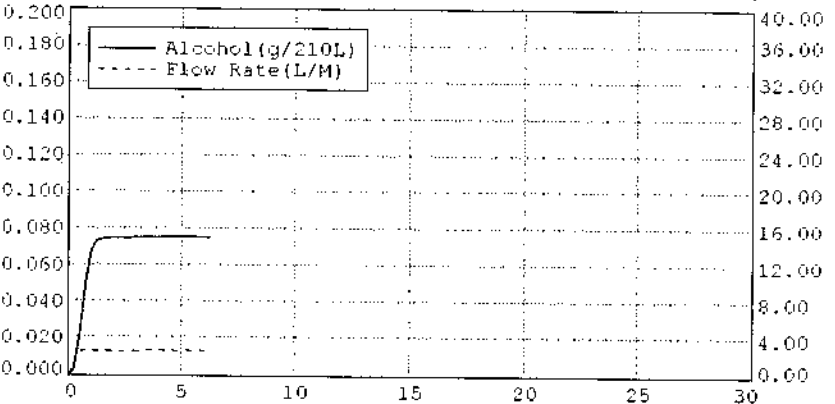
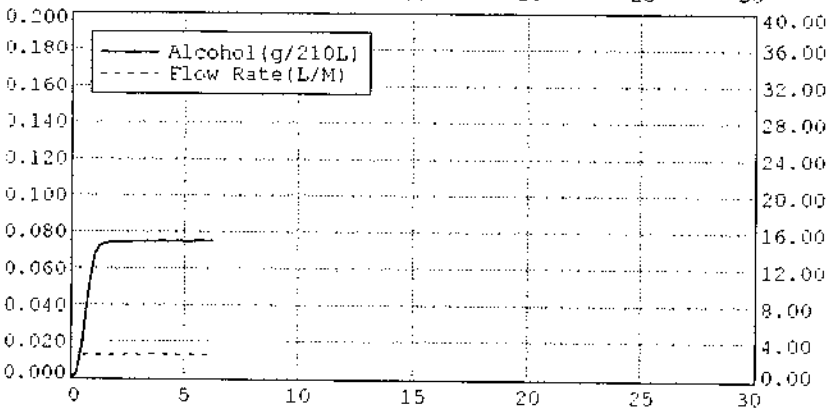
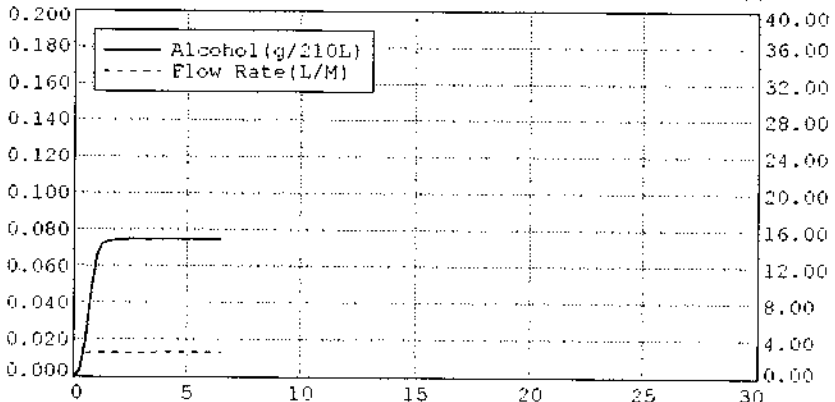
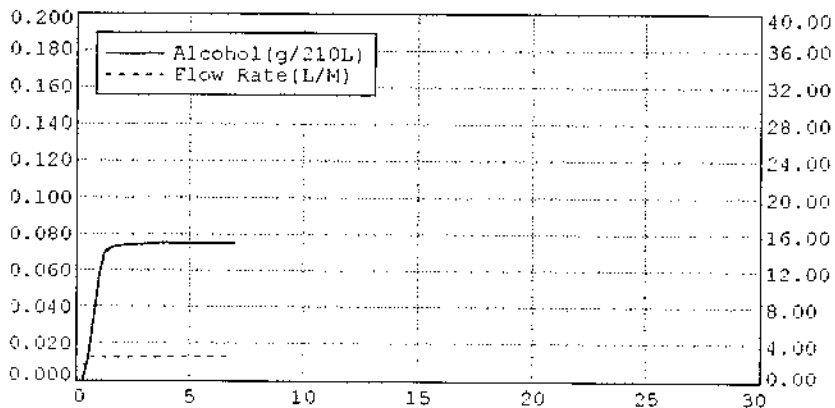
Date: 02/12/2018
 Time: 10:07:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.35: 0.078
 LOT #: AG634001
 EXPIRATION: 12/05/2018
 TANK PRESSURE: 819 psi

BLANK TEST	0.000	10:08
INTERNAL STANDARD	VERIFIED	10:09
EXTERNAL STANDARD	0.076	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.076	10:10
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.076	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.076	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.077	10:13
BLANK TEST	0.000	10:14

Average = 0.0762
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

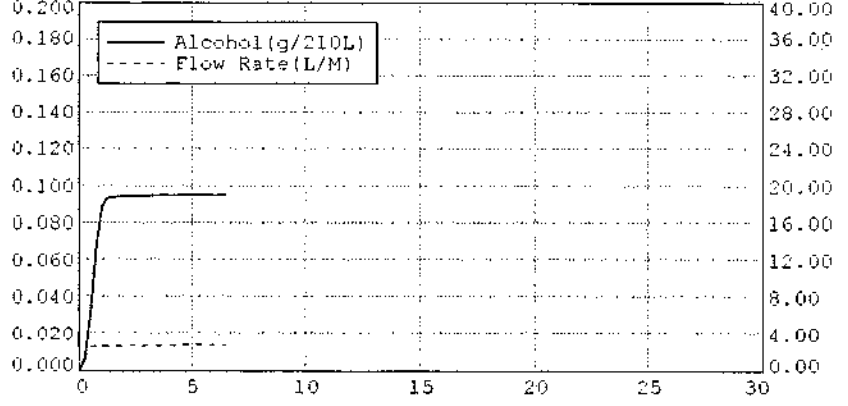
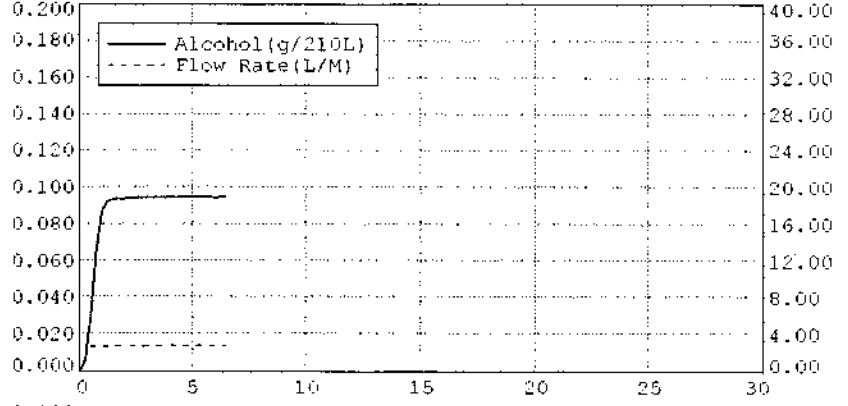
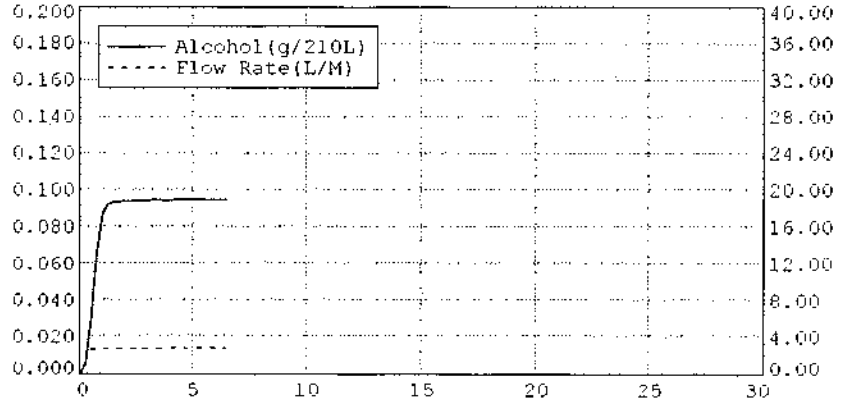
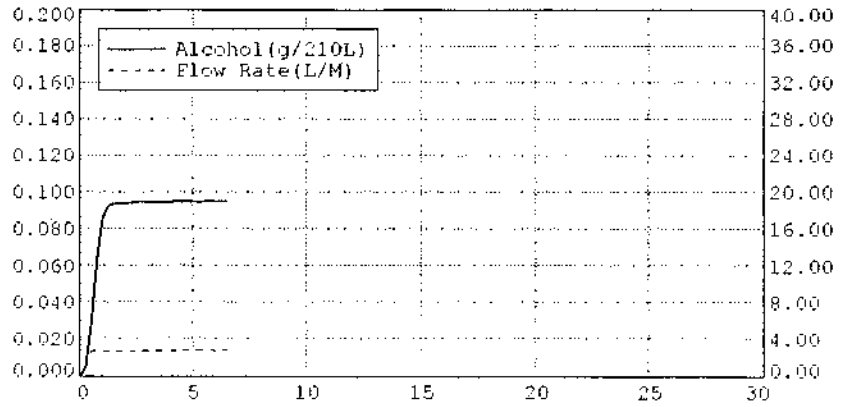
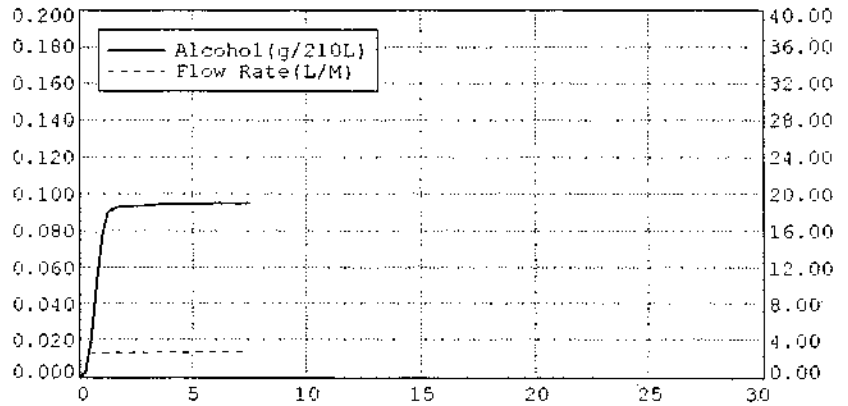
Date: 02/12/2018
 Time: 10:17:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.35: 0.098
 LOT #: AG629304
 EXPIRATION: 10/19/2018
 TANK PRESSURE: 1117 psi

BLANK TEST	0.000	10:18
INTERNAL STANDARD	VERIFIED	10:18
EXTERNAL STANDARD	0.096	10:19
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.096	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.096	10:21
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.096	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.096	10:23
BLANK TEST	0.000	10:24

Average = 0.0960
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

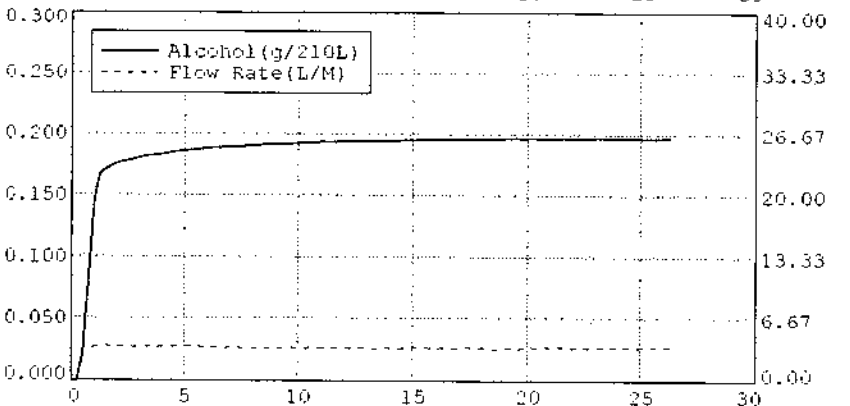
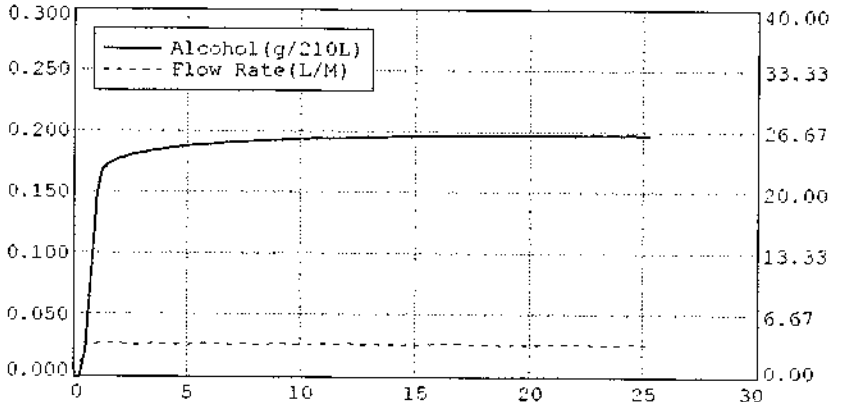
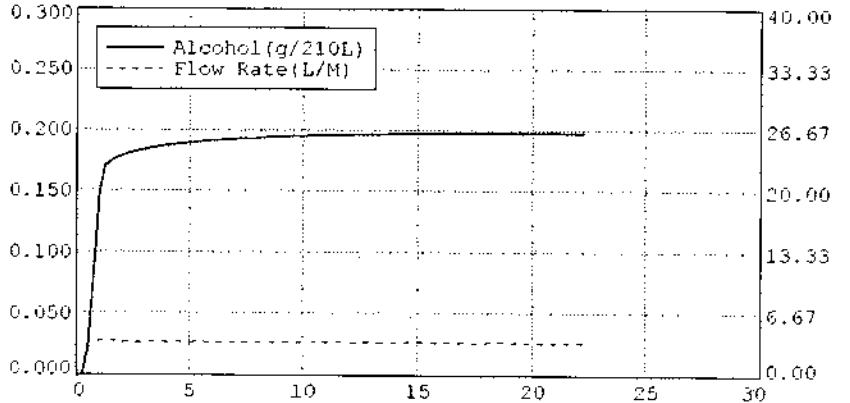
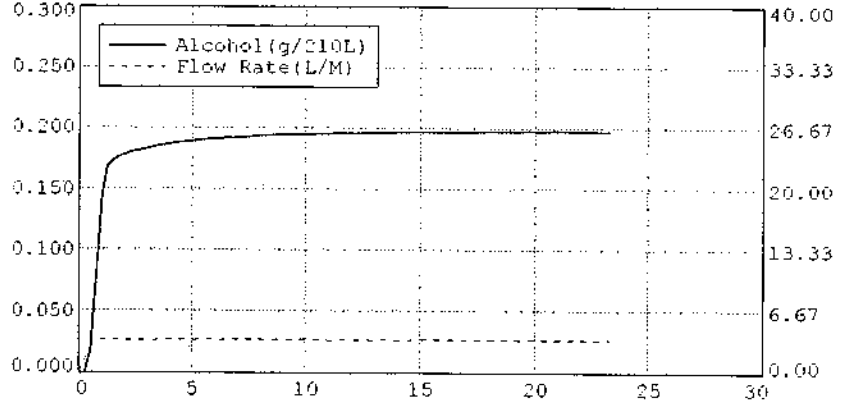
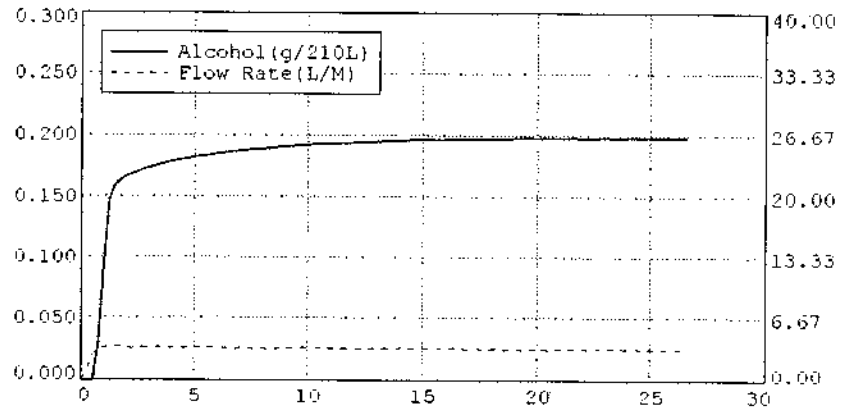
Alaska Department of Public Safety
 DATAMASTER dmt: 100400

Date: 02/12/2018
 Time: 10:25:39

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 17090
 EXPIRATION: 02/24/2019

BLANK TEST	0.000	10:27
INTERNAL STANDARD	VERIFIED	10:27
EXTERNAL STANDARD	0.199	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.198	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.198	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.198	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.198	10:33
BLANK TEST	0.000	10:34

Average = 0.1982
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100400

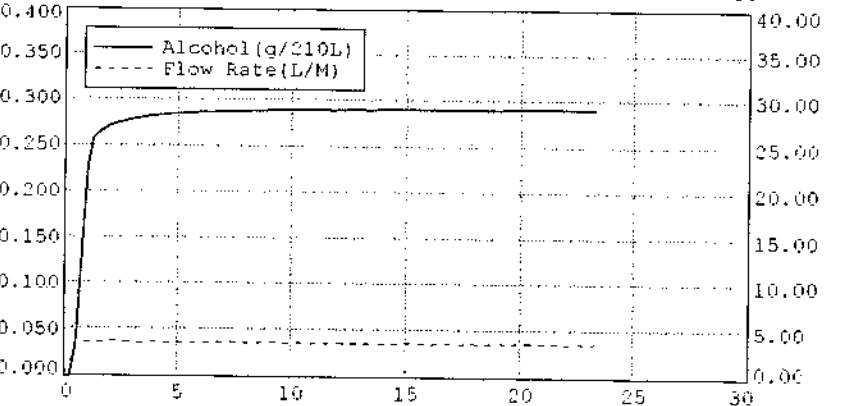
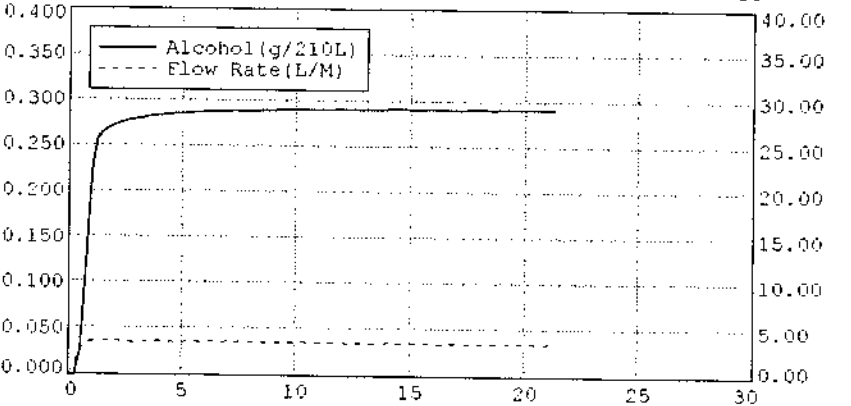
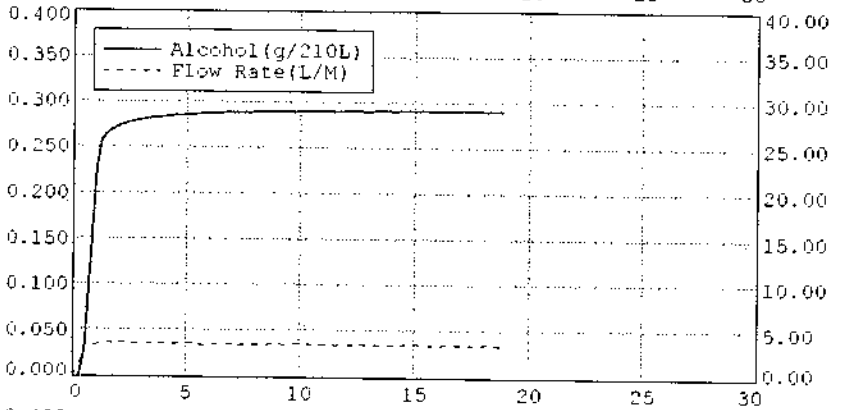
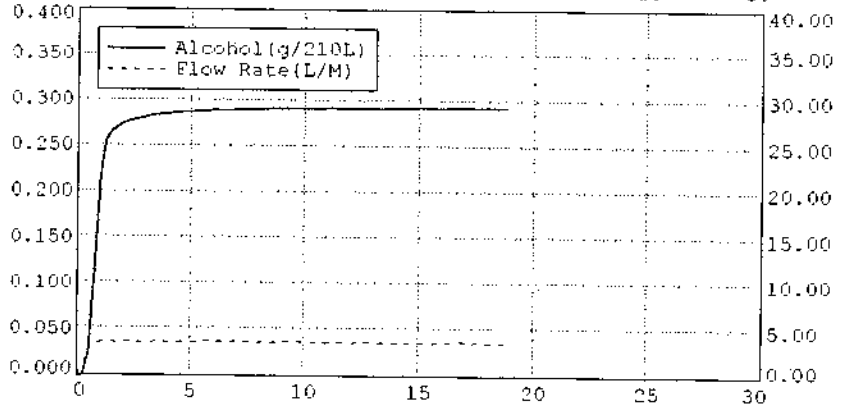
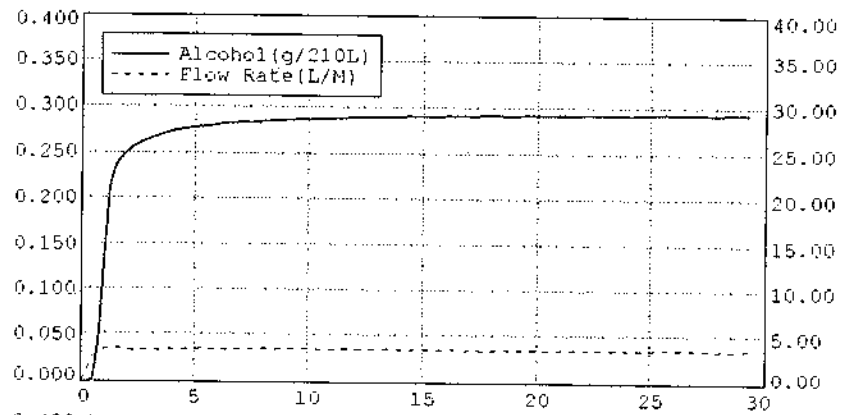
Date: 02/12/2018
 Time: 10:37:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 17140
 EXPIRATION: 05/15/2019

BLANK TEST	0.000	10:38
INTERNAL STANDARD	VERIFIED	10:38
EXTERNAL STANDARD	0.293	10:39
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.292	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.292	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.291	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.292	10:44
BLANK TEST	0.000	10:45

Average = 0.2920
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 02/12/2018
Time: 10:51:34

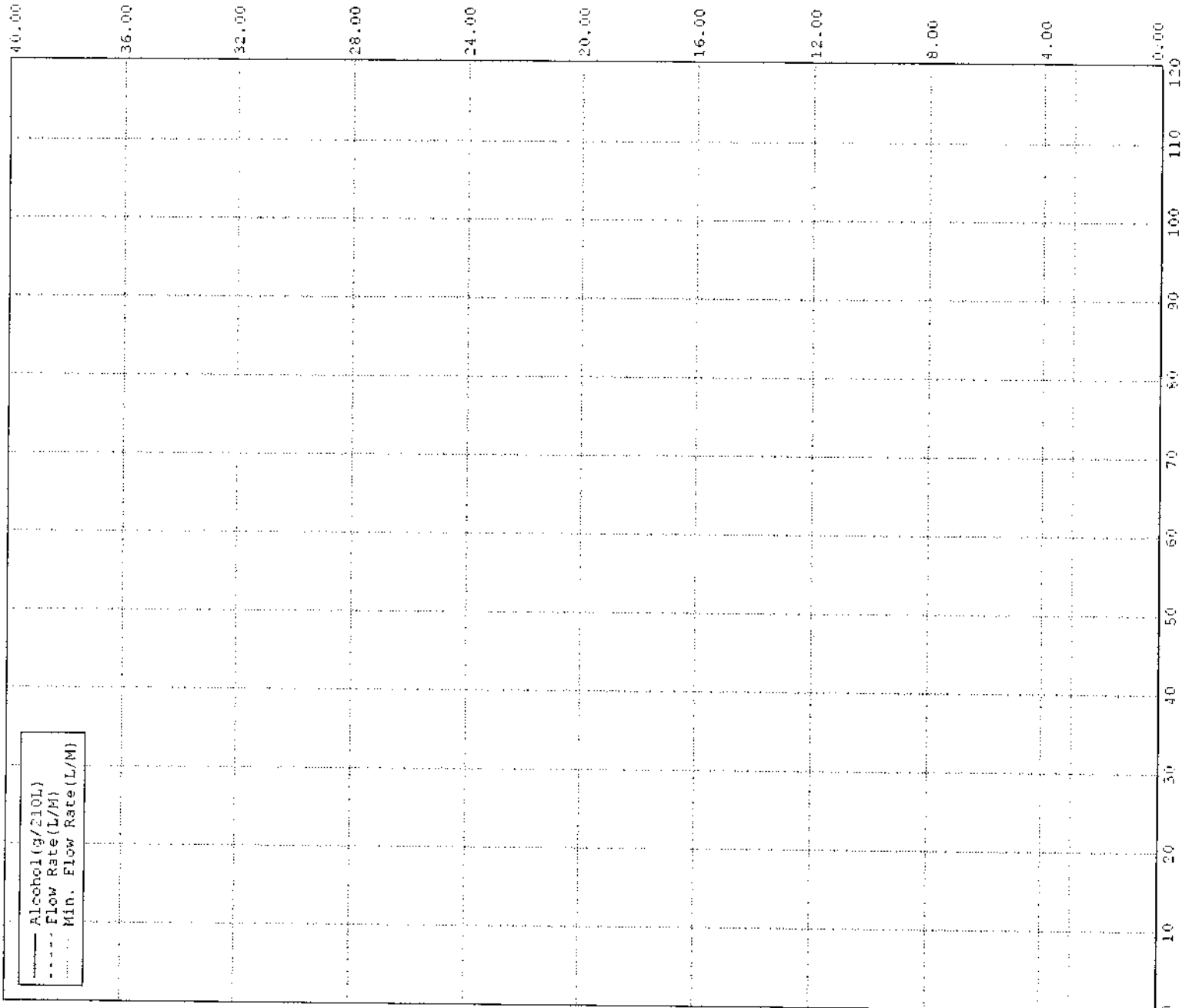
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.33: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	11:02
BLANK TEST	0.000	11:02
INTERNAL STANDARD	VERIFIED	11:02
EXTERNAL STANDARD	0.076	11:02
BLANK TEST	0.000	11:03
SUBJECT SAMPLE	INCOMPLETE	11:05



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 02/12/2018
Time: 11:09:18

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

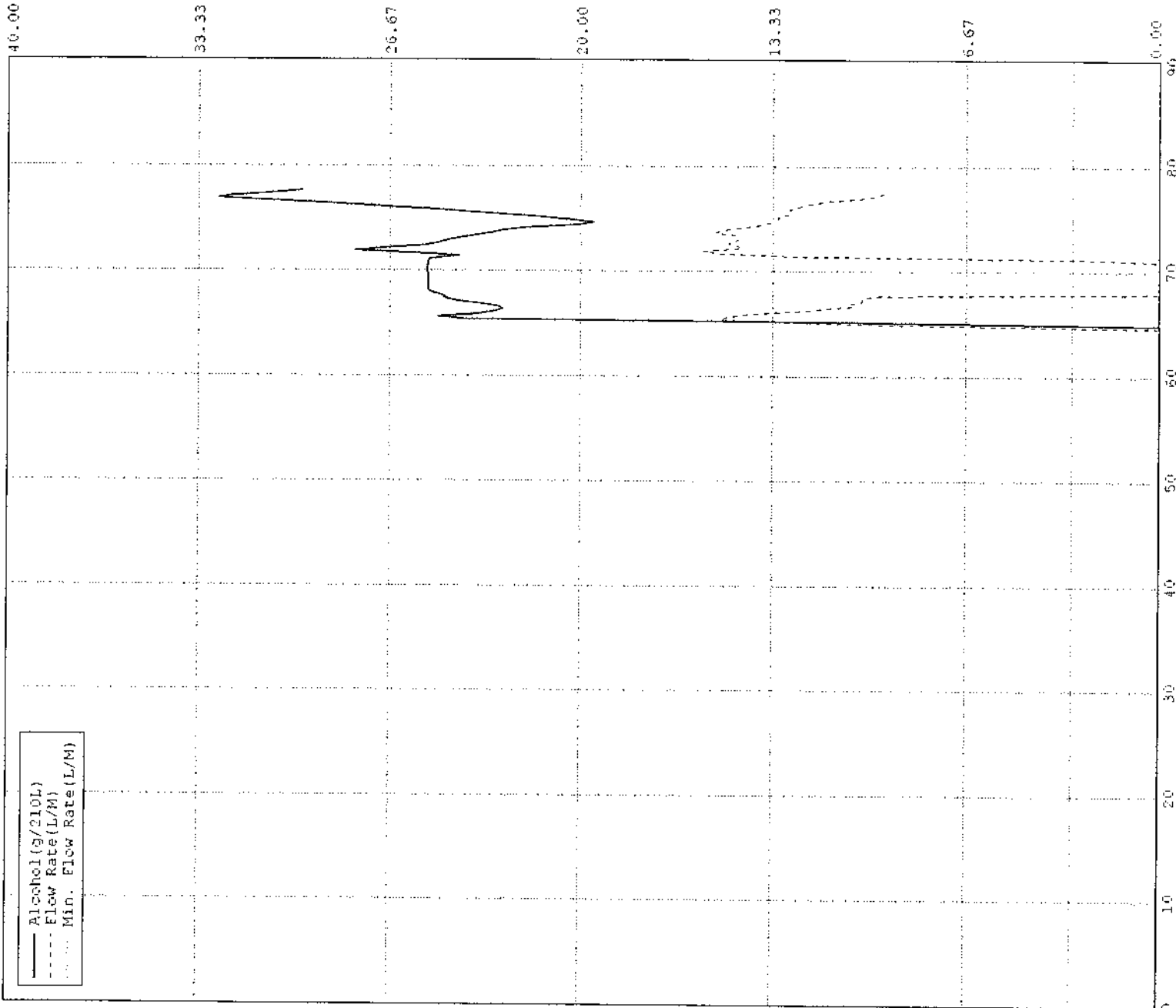
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.33: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 11:10
BLANK TEST 0.000 11:10
INTERNAL STANDARD VERIFIED 11:10
EXTERNAL STANDARD 0.076 11:10
BLANK TEST 0.000 11:11
SUBJECT SAMPLE INVALID 11:13



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 02/12/2018
Time: 11:17:49

SUBJECT NAME:
TEST TEST

LICENSE #: INT-~~XXXXXX~~ *Acetone*
028 2/12/18

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

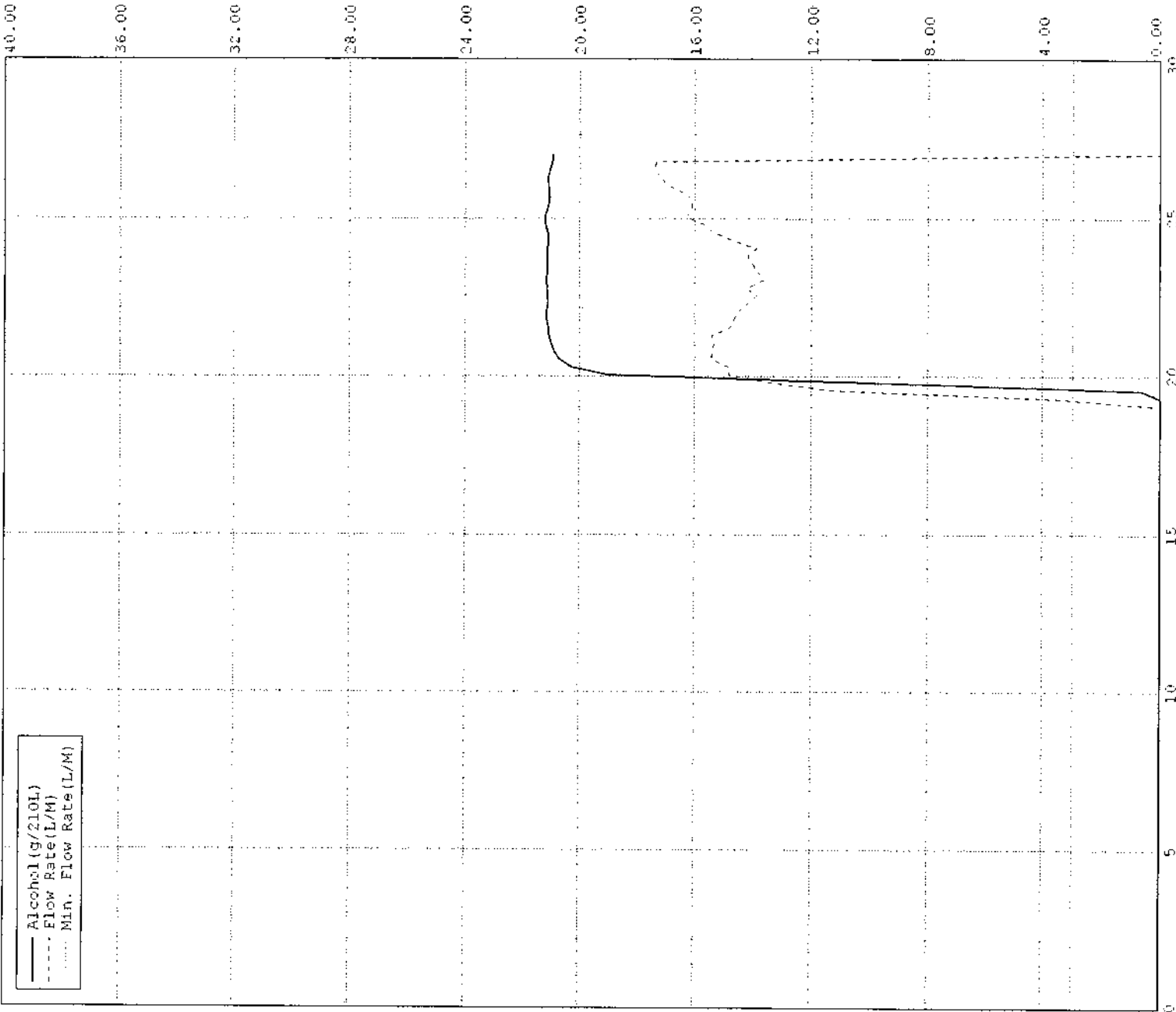
NOMINAL: 0.080
TARGET AT 29.33: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	11:20
BLANK TEST	0.000	11:20
INTERNAL STANDARD	VERIFIED	11:20
Xq = 0.106 (0.08%)		
EXTERNAL STANDARD	0.076	11:20
X[1] = 0.0759 (0.0008) (0.0032)		
BLANK TEST	0.000	11:21
SUBJECT SAMPLE	XXX	11:22
X[1] = 0.1046 (-0.0164) (0.0011)		

Interference Detected

Filter Avg = 0.0007
Filter Avg = 0.0032

CS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 02/12/2018
Time: 11:25:39

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

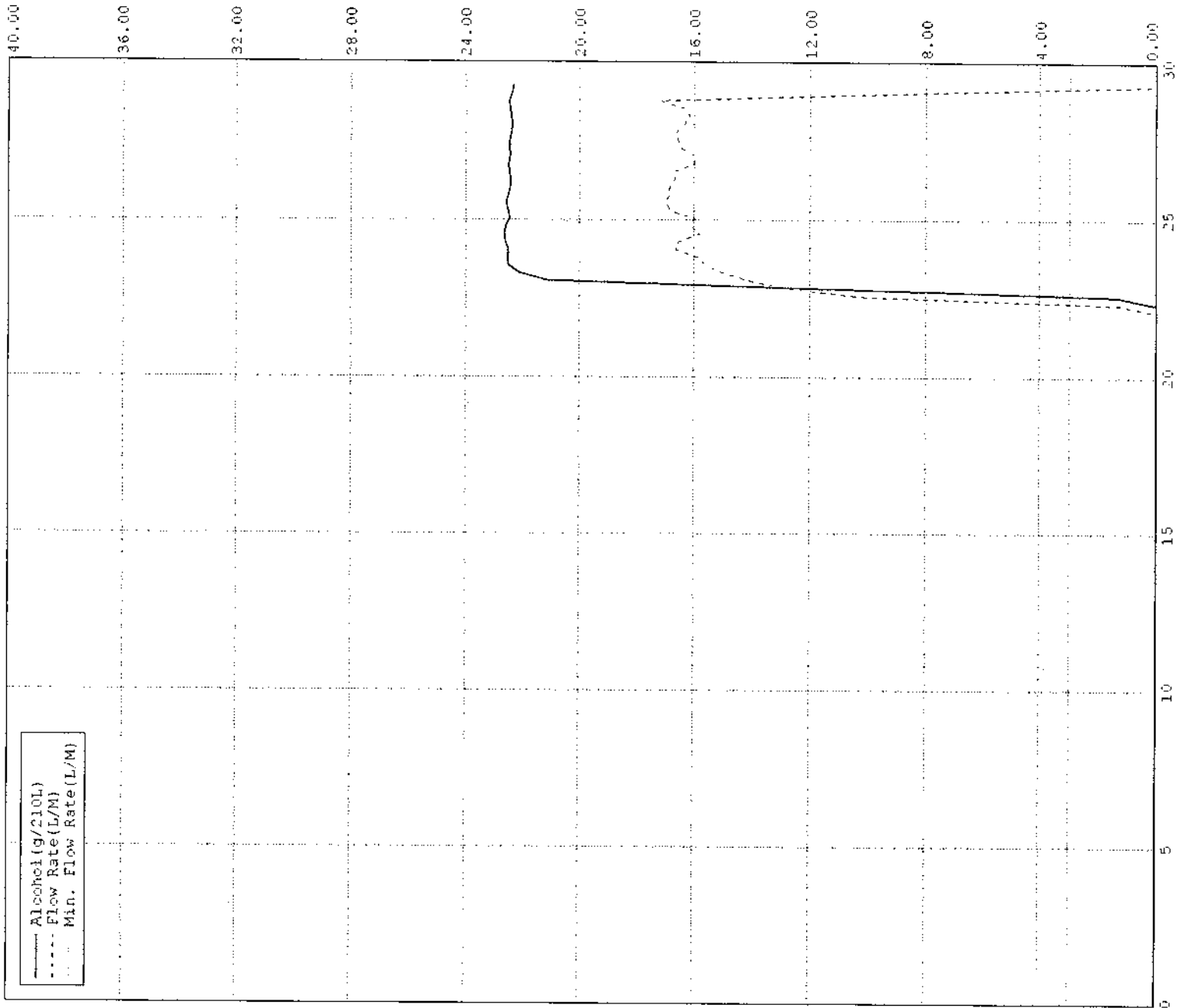
DEPT/AGENCY:
AAA1
CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.33: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	11:26
BLANK TEST	0.000	11:27
INTERNAL STANDARD	VERIFIED	11:27
Xq = 0.106 (0.25%)		
EXTERNAL STANDARD	0.076	11:27
X{1} = 0.0760 (0.0006) (0.0035)		
BLANK TEST	0.000	11:28
SUBJECT SAMPLE	XXX	11:28
X[1] = 0.1117 (-0.0209) (0.0027)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100400

Date: 02/12/2018
Time: 11:32:04

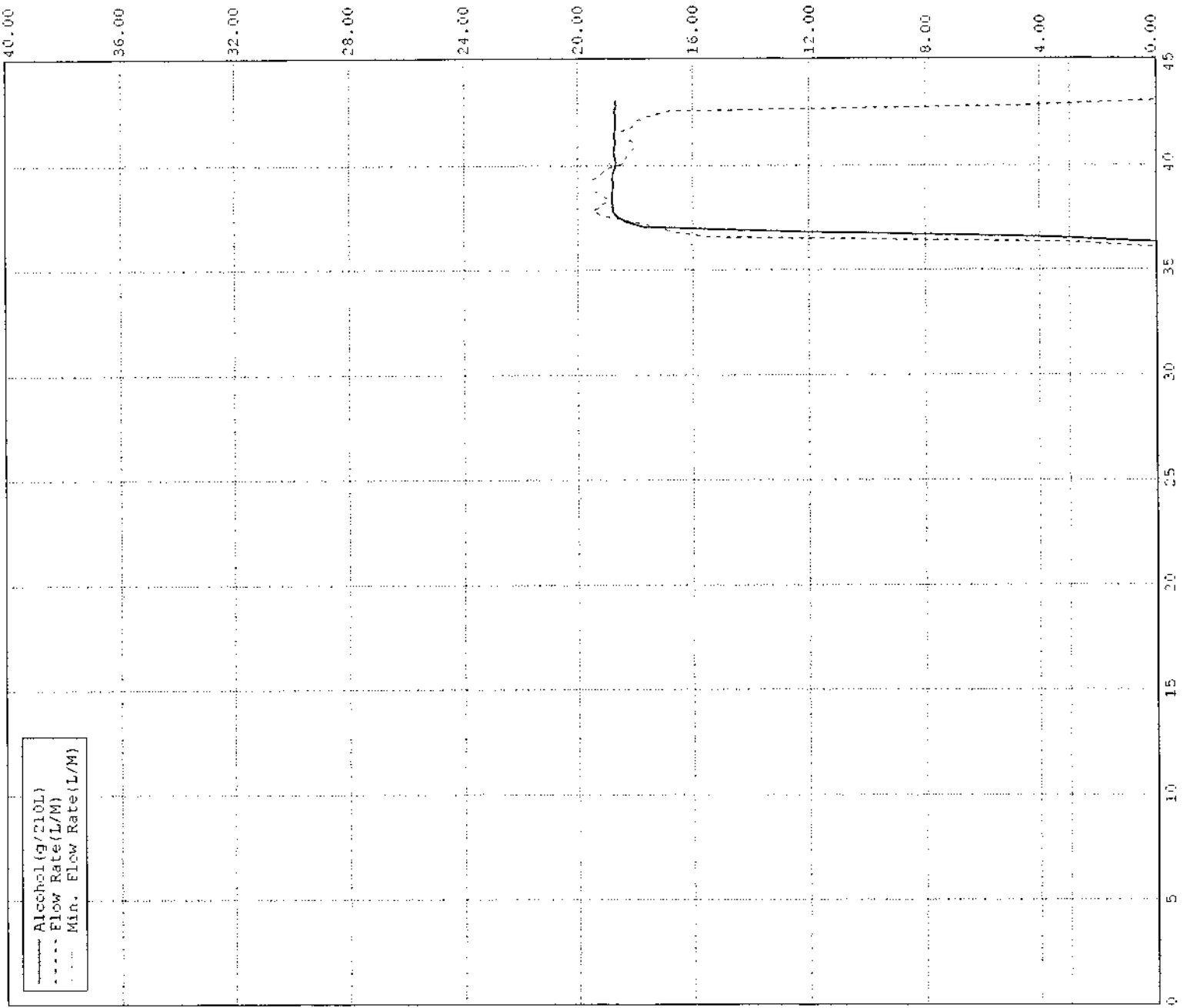
SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.32: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	11:33
BLANK TEST	0.000	11:33
INTERNAL STANDARD	VERIFIED	11:33
Xg = 0.106 (0.41%)		
EXTERNAL STANDARD	0.076	11:33
X[1] = 0.0759 (0.0007) (0.0032)		
BLANK TEST	0.000	11:34
SUBJECT SAMPLE (Vol=1.95L)	0.093	11:35
X[1] = 0.0935 (0.0011) (0.0021)		
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.076	11:36
X[1] = 0.0756 (0.0005) (0.0028)		
BLANK TEST	0.000	11:37



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100400

Date: 02/12/2018

Time: 13:22:56

SUBJECT NAME:

TEST TEST

LICENSE #: MAX ATTEMPTS

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 18-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.31: 0.078

LOT #: AG634001

EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK

PASSED 13:24

BLANK TEST

0.000

INTERNAL STANDARD

VERIFIED 13:24

EXTERNAL STANDARD

0.076

BLANK TEST

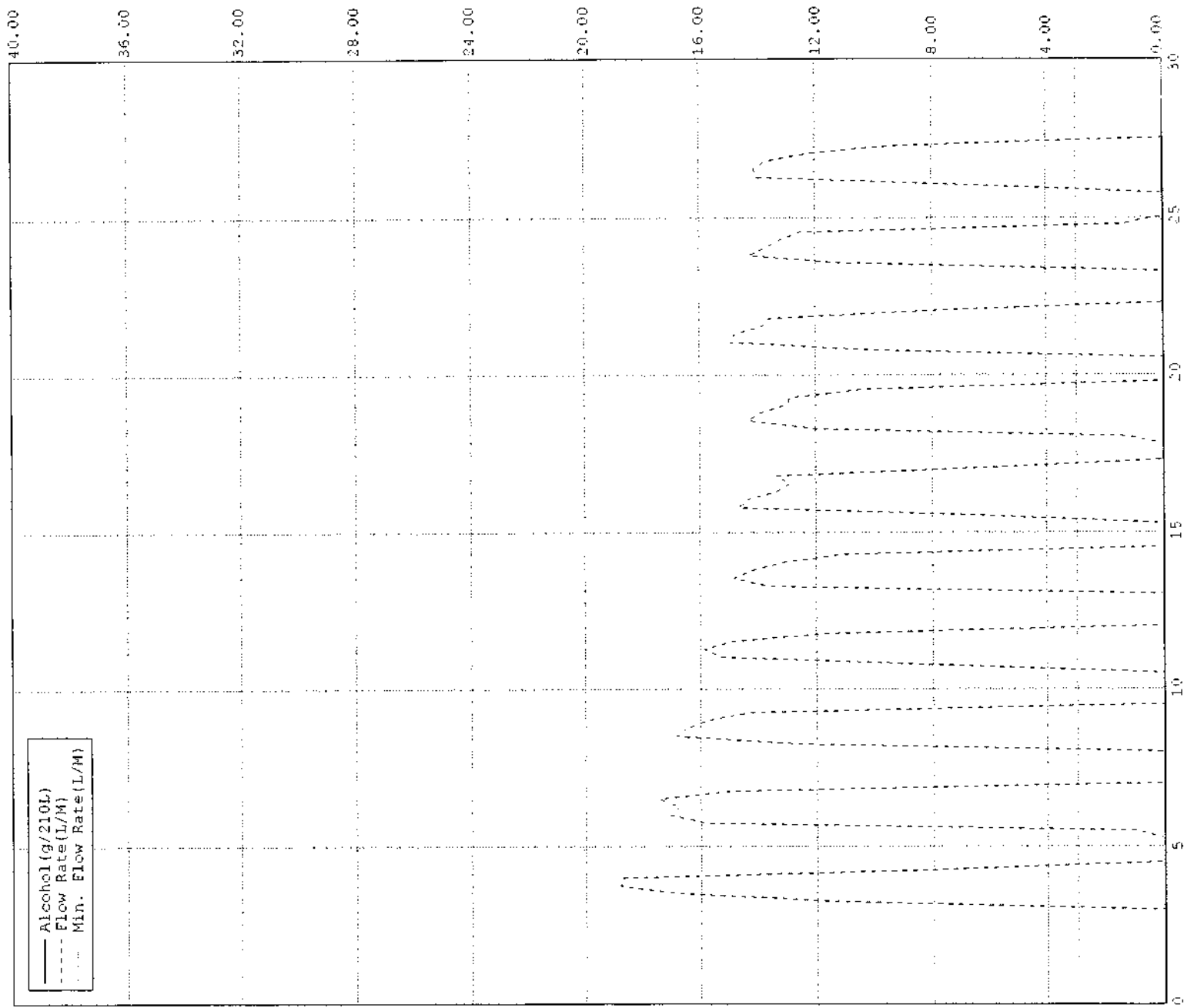
0.000

SUBJECT SAMPLE

XXX

13:26

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100400

Date: 02/12/2018
Time: 13:34:21

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

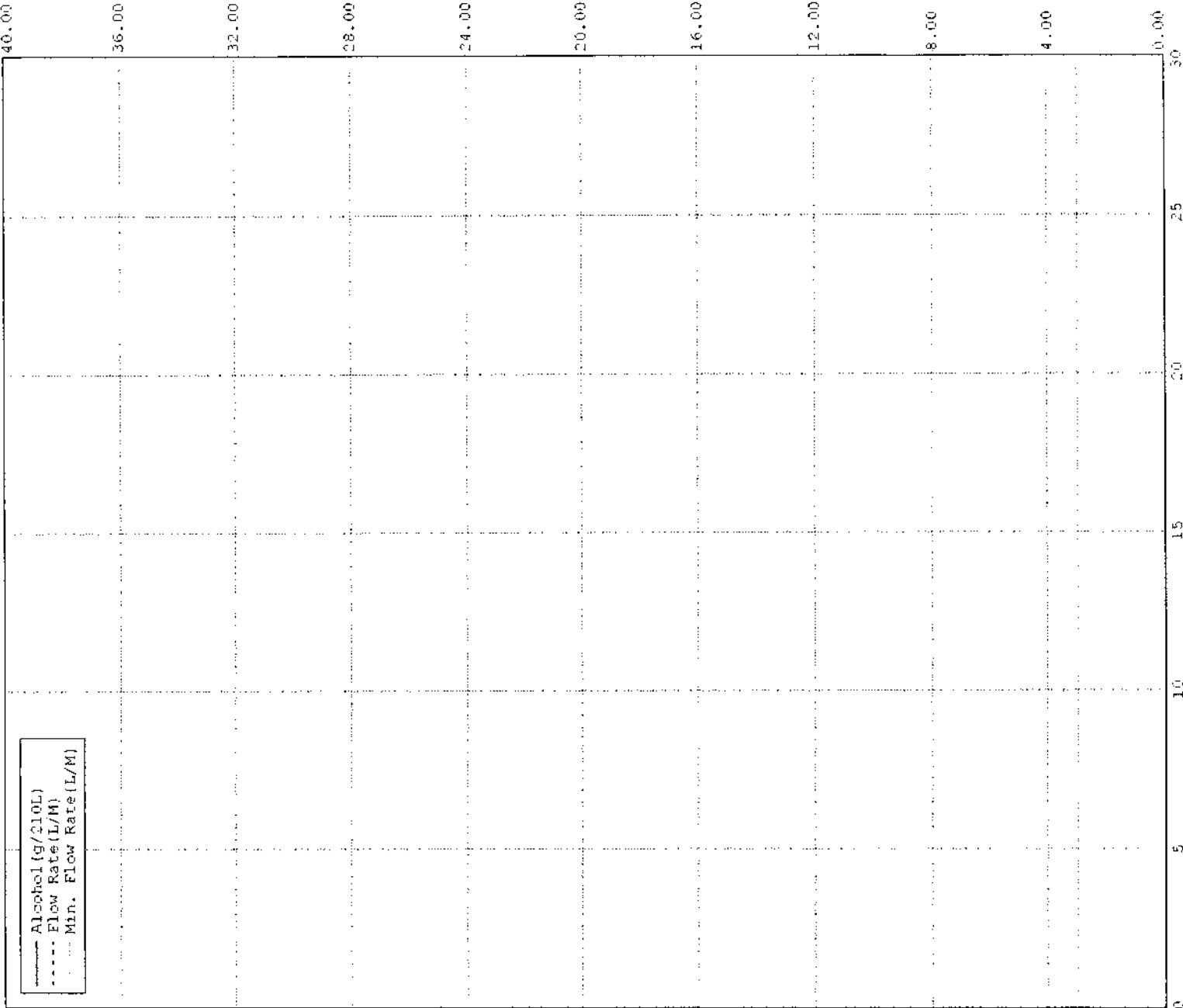
DEPT/AGENCY:
AAA1
CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.31: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK PASSED 13:35
BLANK TEST 0.000 13:36
INTERNAL STANDARD VERIFIED 13:36
EXTERNAL STANDARD 0.076 13:36
BLANK TEST 0.000 13:37

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 02/12/2018
Time: 13:50:26

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.30: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	13:51
BLANK TEST	0.000	13:51
INTERNAL STANDARD	VERIFIED	13:51
EXTERNAL STANDARD	0.077	13:52
BLANK TEST	0.000	13:53
SUBJECT SAMPLE (Vol=1.81L)	0.000	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.077	13:54
BLANK TEST	0.000	13:55

