

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 100690 Analyst C. O. Bryant Start Date 2/8/18

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 1.5 L (1.3L to 1.7L)

4. Linearity Test (attached)

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 DR4162 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 CFD1088 Date Calibrated 1/24/18

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 2/12/18

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/08/2018
Time: 16:17:57

VERSIONS
DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 43.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.76 V PASSED
(1.06 V - 2.46 V)
Cooler Voltage = 1.90 V PASSED
(1.14 V - 2.66 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 534 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.3 in

PUMP INFO

Flow Rate = 4.389 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
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED
Xq = 0.104 0.59% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 8:09 AM

Temperatures (°C)
Sample Cell: 48.8°C
Breath Tube: 44.5°C

Current Barometer 29.3 in
Volume (Ltr) 1.54

Settings
Lamp: 1.86 V
Bias: 80 V
Cooler: 1.95 V
Chopper: 534 Hz

Voltages (V)
Flow: 1.05 V
Detector: 0.040 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 01/19/2018
Time: 12:09:37

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 0.975414 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0043 0.0010 <= b2 < 0.0100
b3 = 0.0006 0.0000 <= b3 < 0.0040
Xq = 0.1036 0.0500 <= Xq < 0.2000
a21 = 1.144230 1.050 <= a21 < 1.300
a31 = 0.428904 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 08:10:36

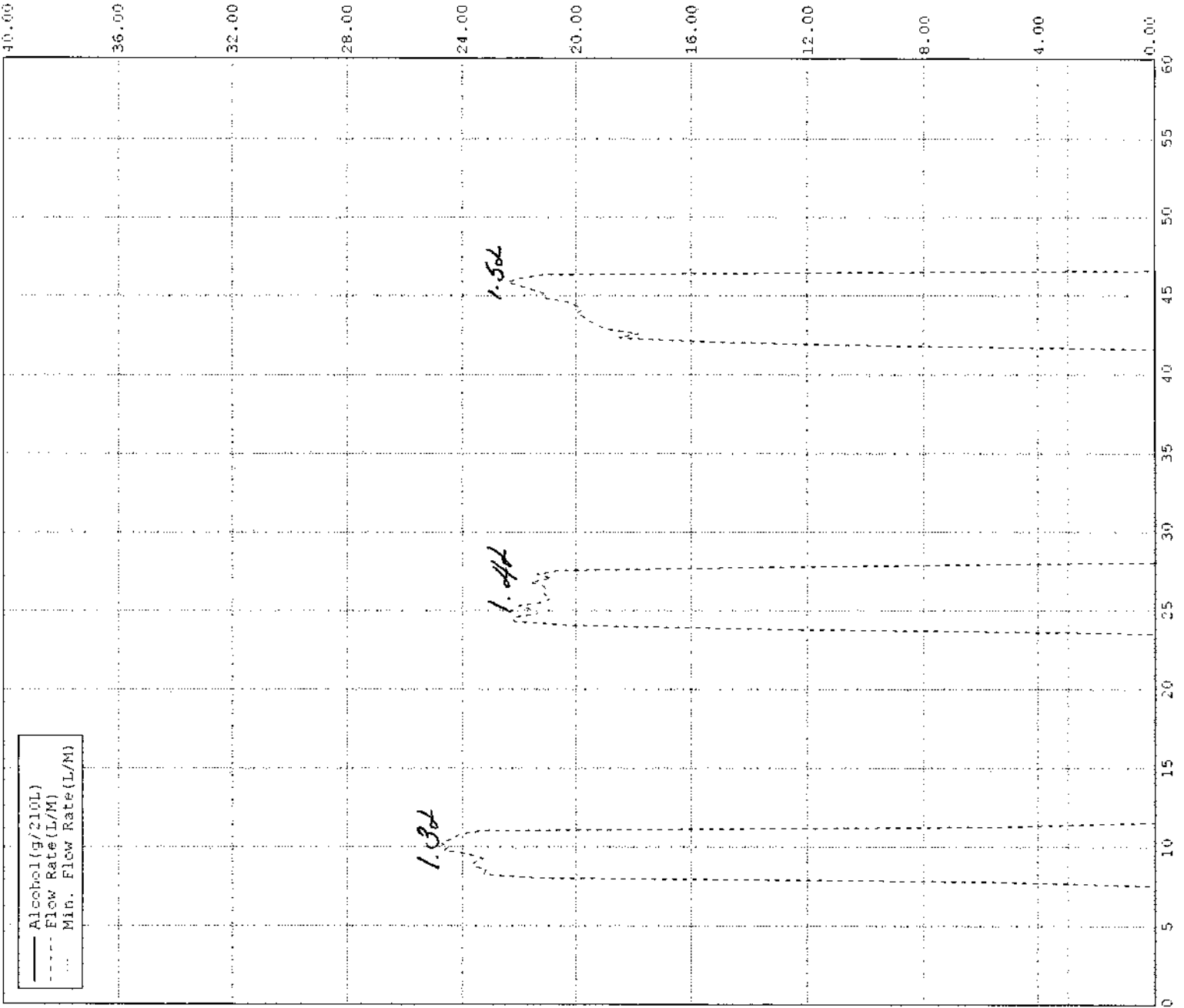
SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

DIAGNOSTIC CHECK	PASSED	08:12
BLANK TEST	0.000	08:13
INTERNAL STANDARD	VERIFIED	08:13
EXTERNAL STANDARD	0.077	08:13
BLANK TEST	0.000	08:14
SUBJECT SAMPLE (Vol=1.54L)	0.000	08:15
BLANK TEST	0.000	08:16
EXTERNAL STANDARD	0.077	08:16
BLANK TEST	0.000	08:17



LINEARITY CHECK

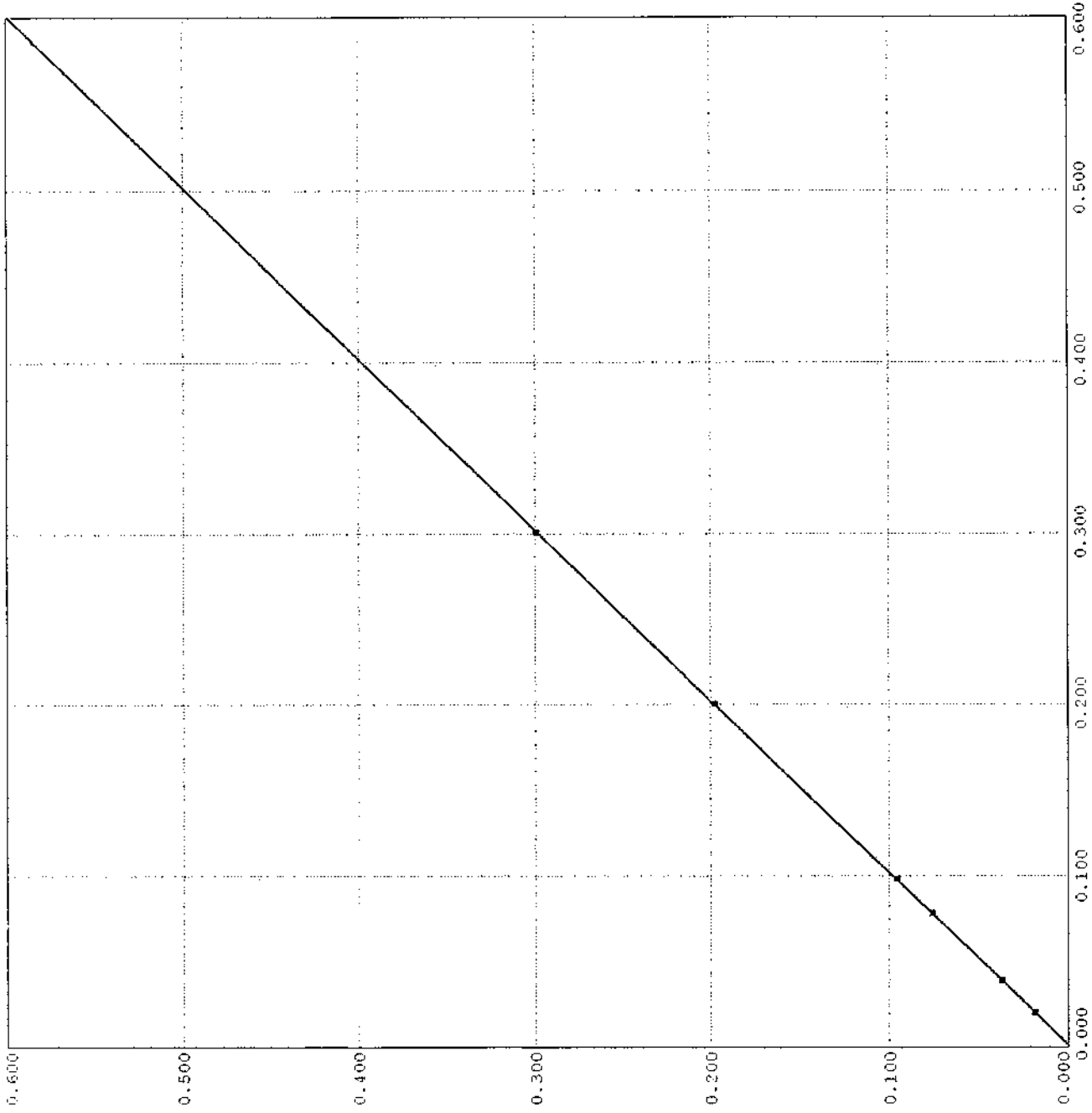
Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 09:04:40

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.039	0.0382	0.0004
0.078	0.0768	0.0004
0.098	0.0966	0.0005
0.200	0.1982	0.0011
0.300	0.3000	0.0014

SLOPE = 1.000973
R² = 0.999963



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100690

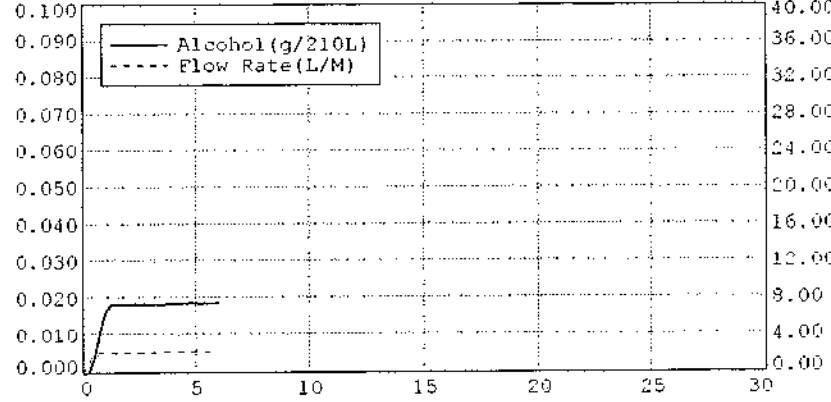
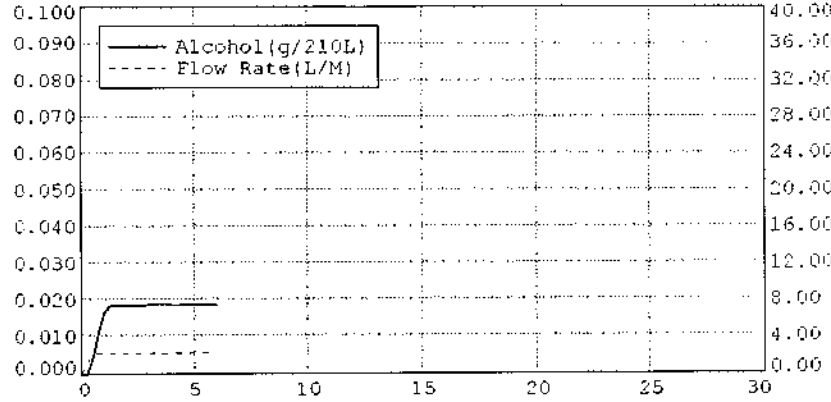
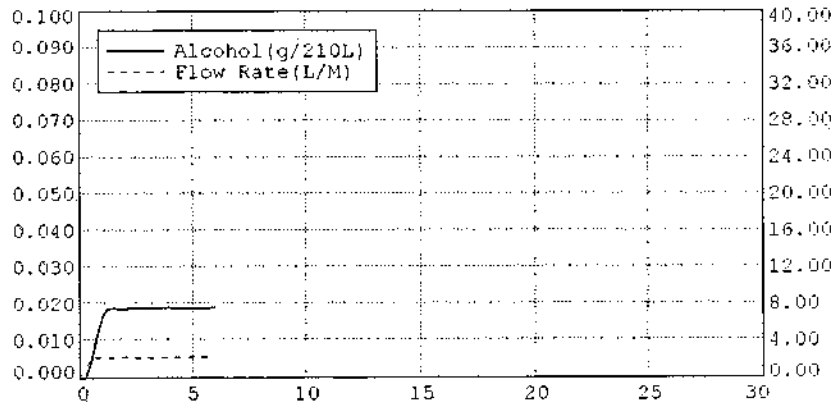
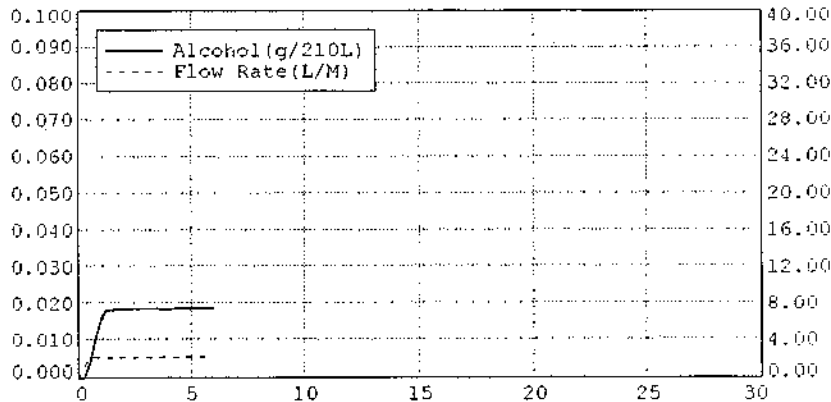
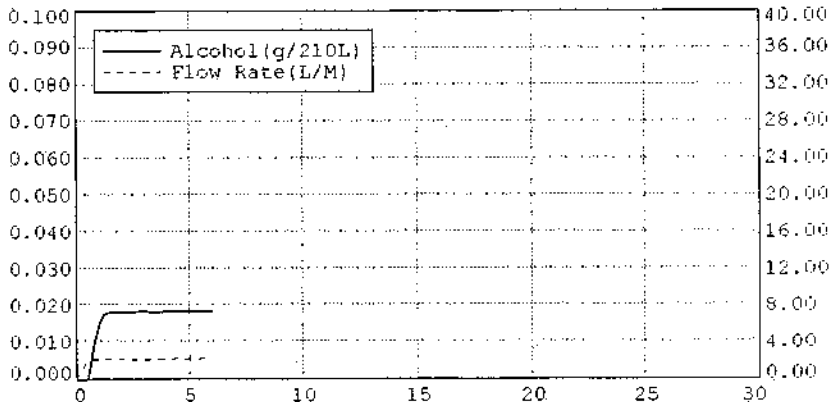
Date: 02/12/2018
 Time: 09:04:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.34: 0.020
 LOT #: AG616504
 EXPIRATION: 06/13/2018
 TANK PRESSURE: 291 psi

BLANK TEST	0.000	09:07
INTERNAL STANDARD	VERIFIED	09:07
EXTERNAL STANDARD	0.019	09:07
BLANK TEST	0.000	09:08
EXTERNAL STANDARD	0.019	09:08
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.020	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.020	09:10
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.020	09:11
BLANK TEST	0.000	09:12

Average = 0.0196
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100690

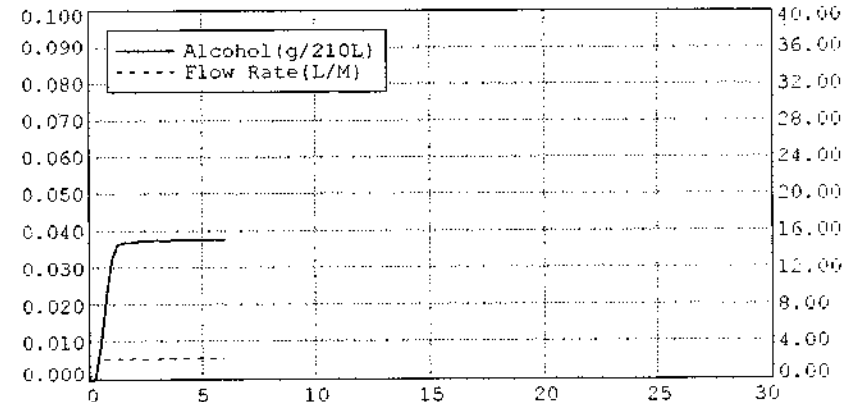
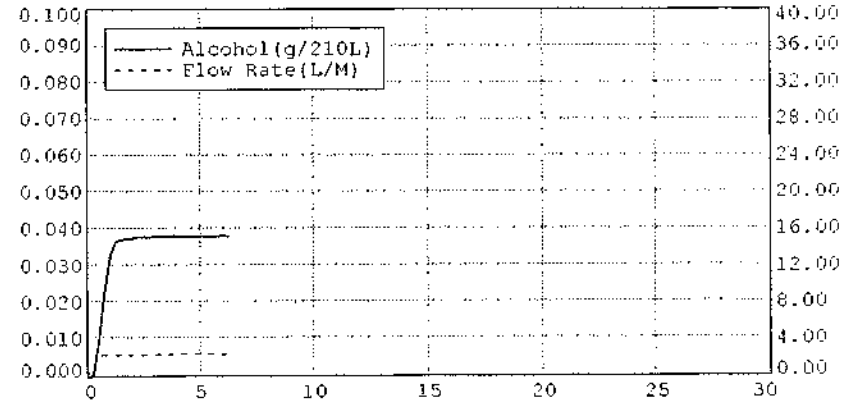
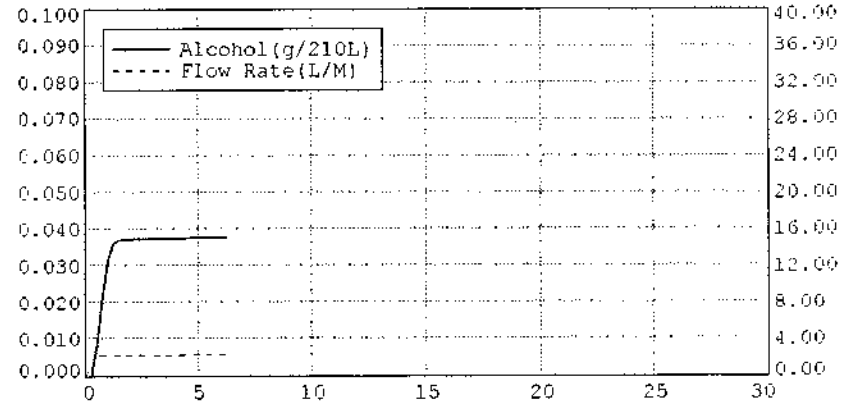
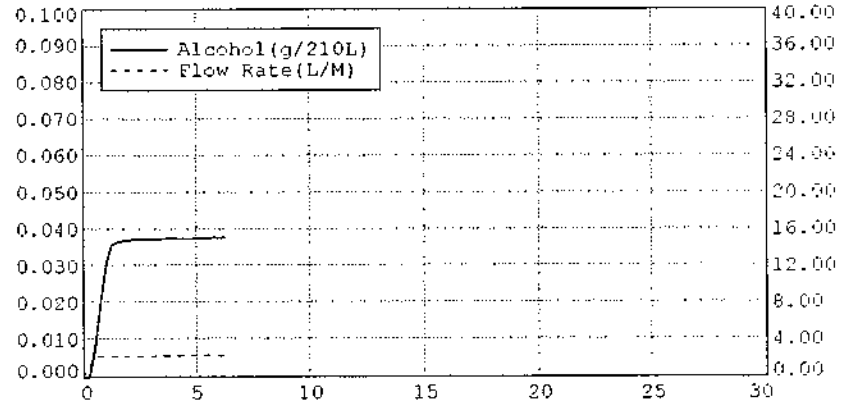
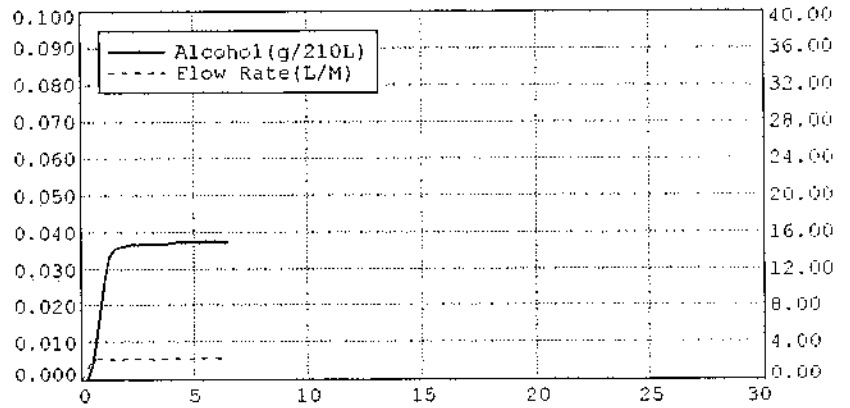
Date: 02/12/2018
 Time: 09:13:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.35: 0.039
 LOT #: AG630101
 EXPIRATION: 10/27/2018
 TANK PRESSURE: 380 psi

BLANK TEST	0.000	09:14
INTERNAL STANDARD	VERIFIED	09:14
EXTERNAL STANDARD	0.038	09:14
BLANK TEST	0.000	09:15
EXTERNAL STANDARD	0.038	09:15
BLANK TEST	0.000	09:16
EXTERNAL STANDARD	0.038	09:16
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.039	09:17
BLANK TEST	0.000	09:18
EXTERNAL STANDARD	0.038	09:19
BLANK TEST	0.000	09:19

Average = 0.0382
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

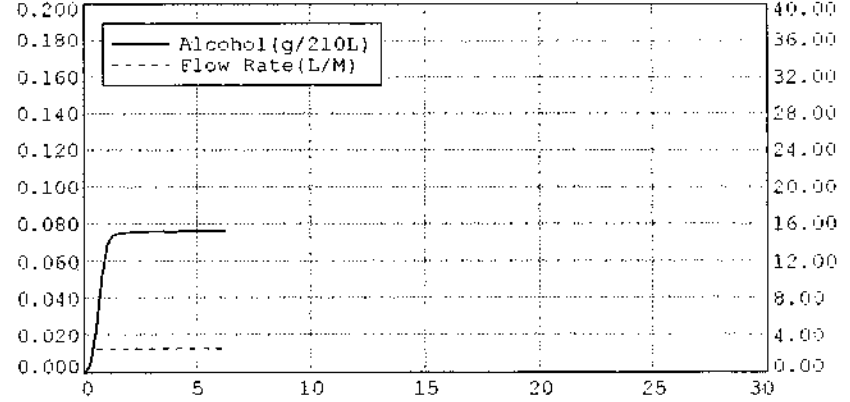
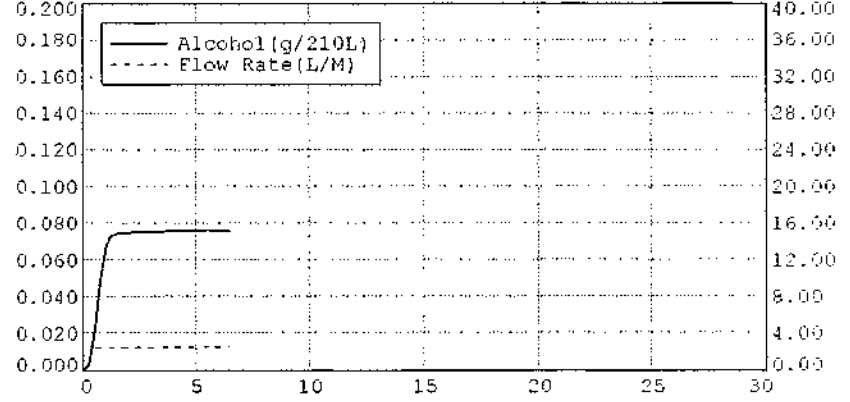
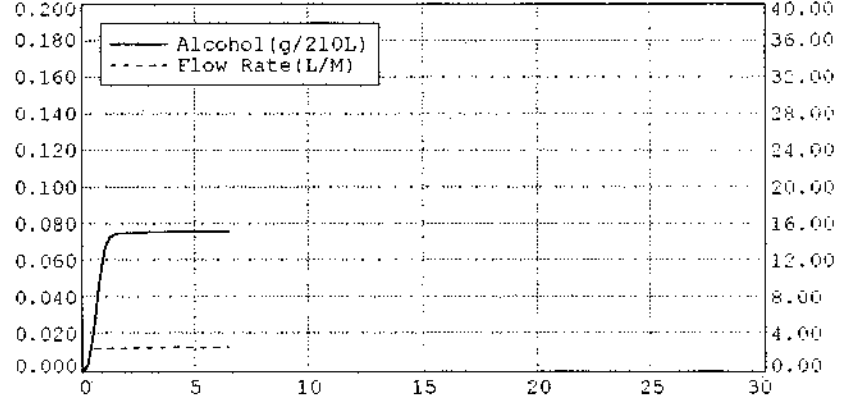
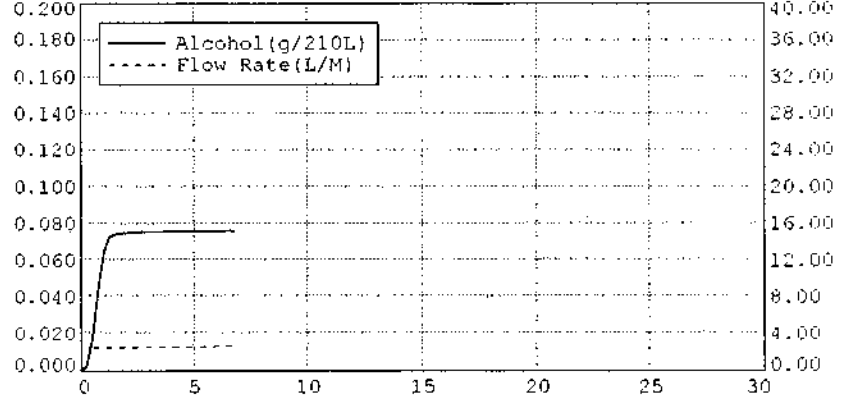
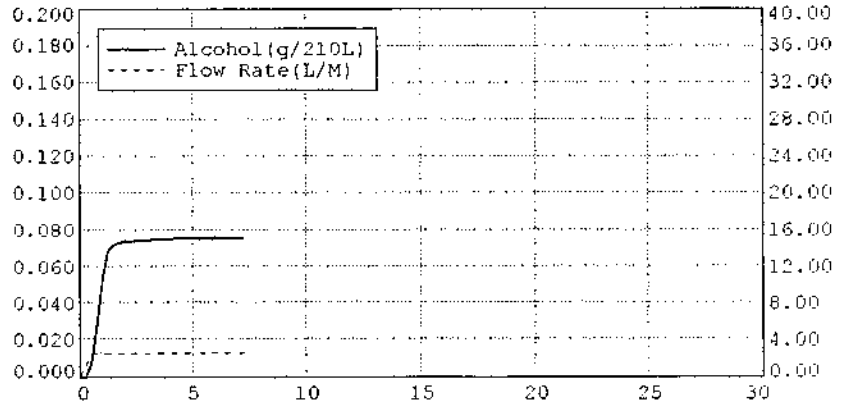
Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 09:44:41

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.34: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 1088 psi

BLANK TEST	0.000	09:45
INTERNAL STANDARD	VERIFIED	09:45
EXTERNAL STANDARD	0.076	09:46
BLANK TEST	0.000	09:46
EXTERNAL STANDARD	0.077	09:47
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.077	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.077	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.077	09:50
BLANK TEST	0.000	09:51

Average = 0.0768
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100690

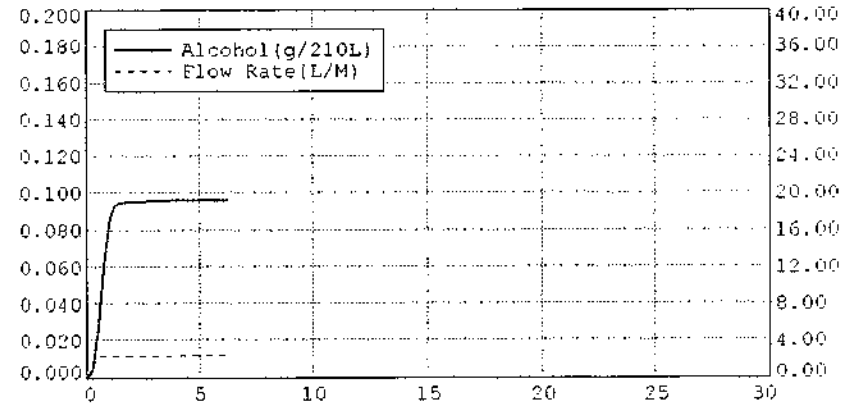
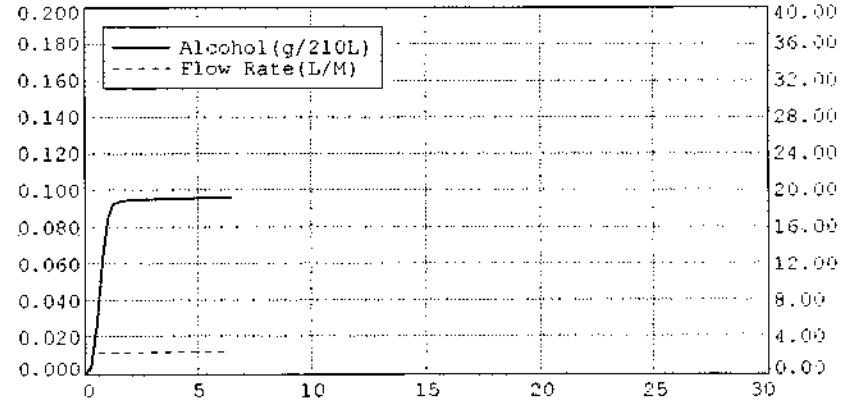
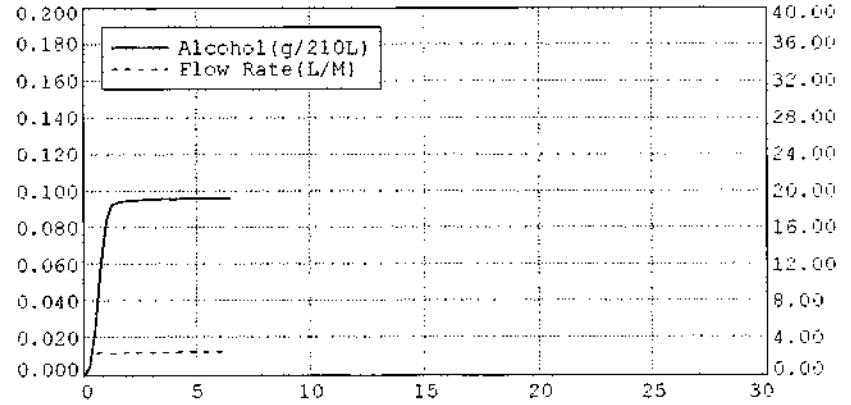
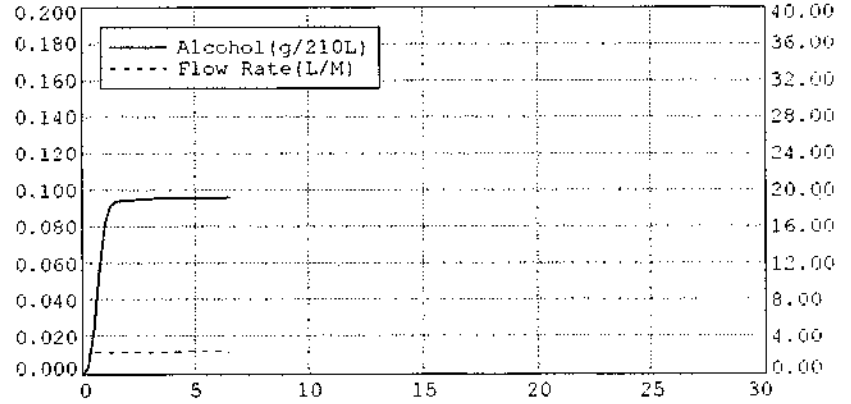
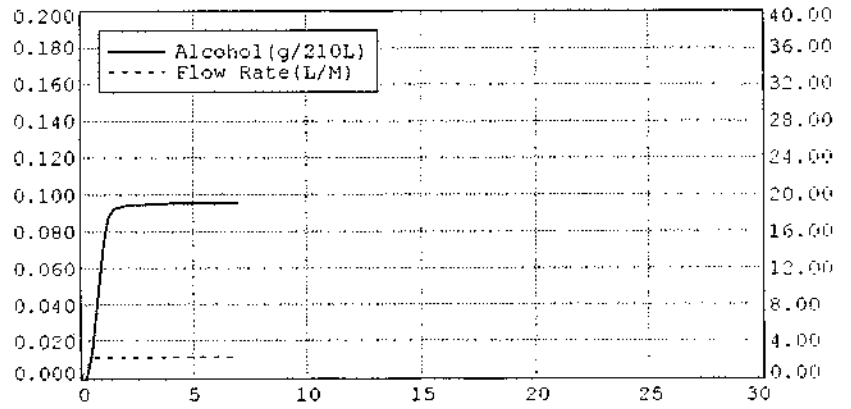
Date: 02/12/2018
 Time: 09:57:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.34: 0.098
 LOT #: AG629304
 EXPIRATION: 10/19/2018
 TANK PRESSURE: 690 psi

BLANK TEST	0.000	09:58
INTERNAL STANDARD	VERIFIED	09:58
EXTERNAL STANDARD	0.097	09:58
BLANK TEST	0.000	09:59
EXTERNAL STANDARD	0.096	10:00
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.097	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.096	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.097	10:03
BLANK TEST	0.000	10:04

Average = 0.0966
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

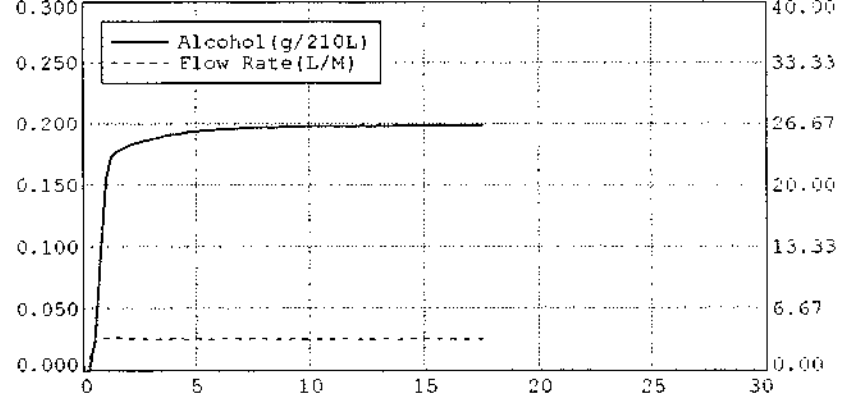
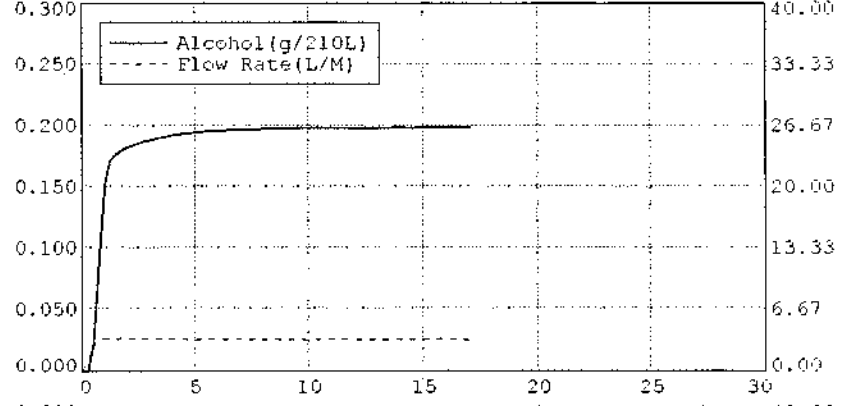
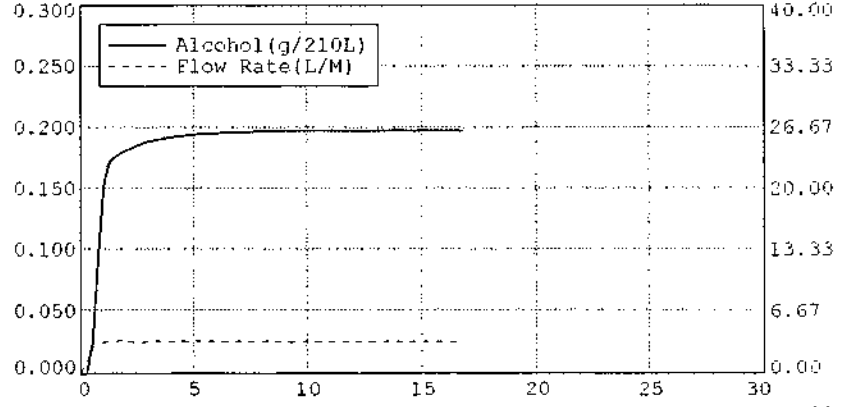
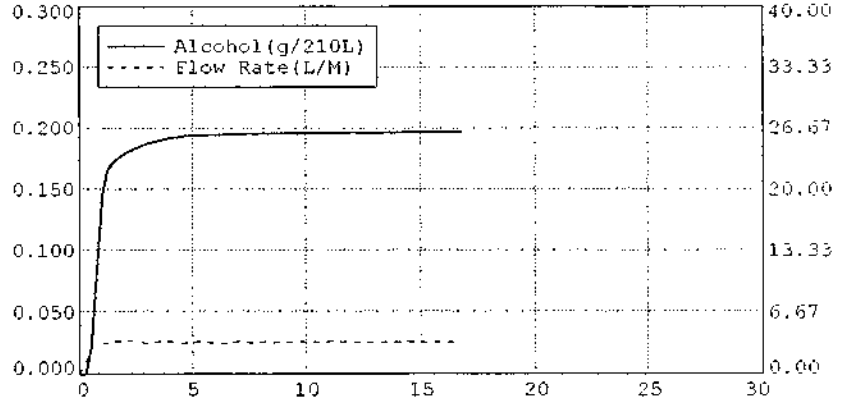
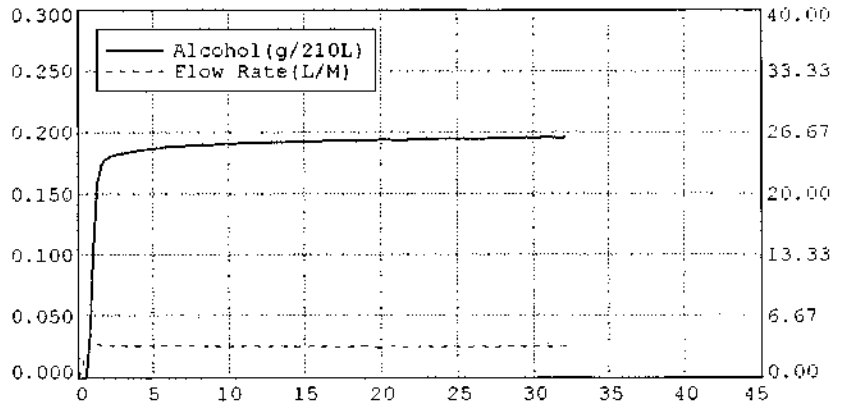
Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 10:05:32

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

BLANK TEST	0.000	10:07
INTERNAL STANDARD	VERIFIED	10:07
EXTERNAL STANDARD	0.197	10:07
BLANK TEST	0.000	10:08
EXTERNAL STANDARD	0.197	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.199	10:10
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.199	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.199	10:13
BLANK TEST	0.000	10:14

Average = 0.1982
Std Dev = 0.0011



LINEARITY CHECK: Control Test 6

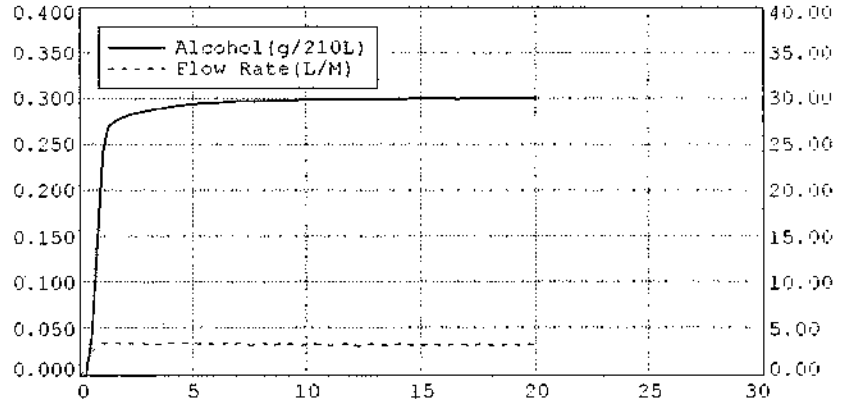
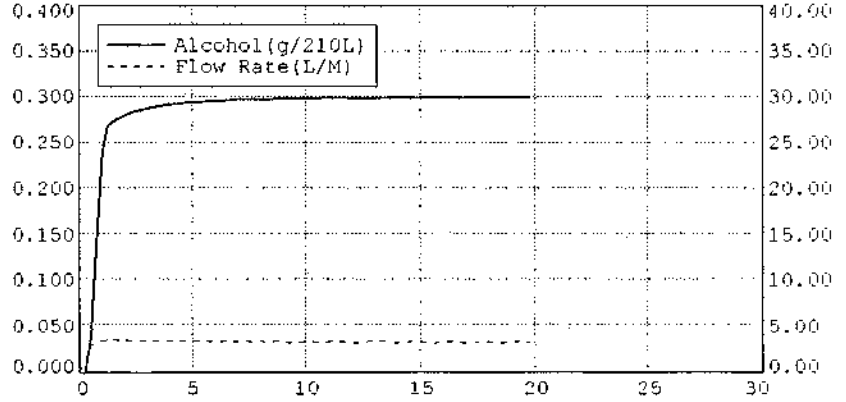
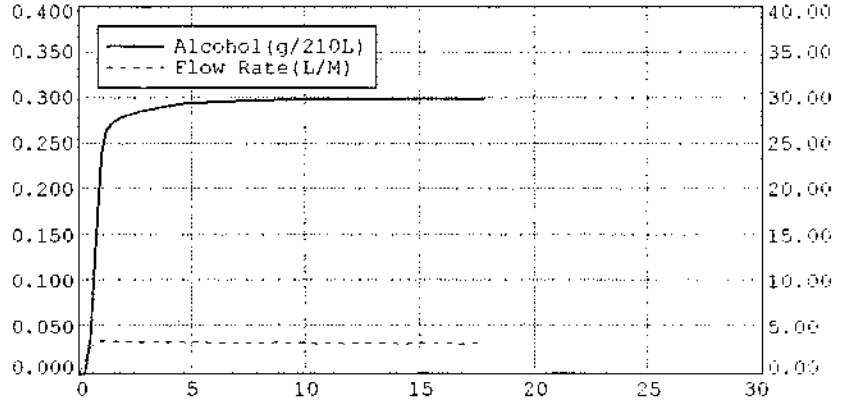
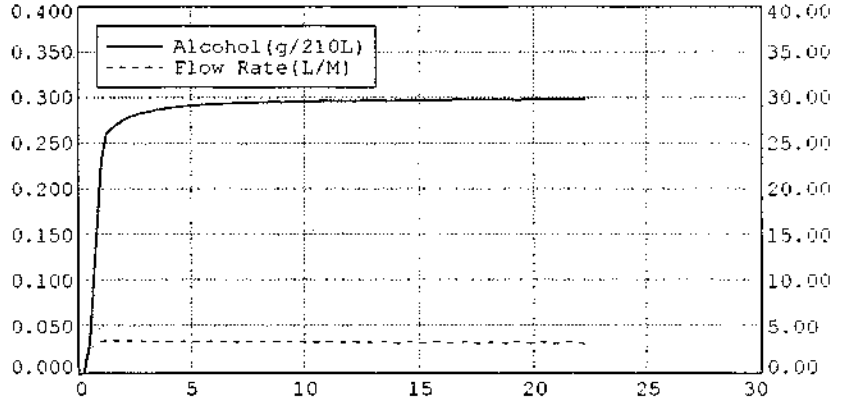
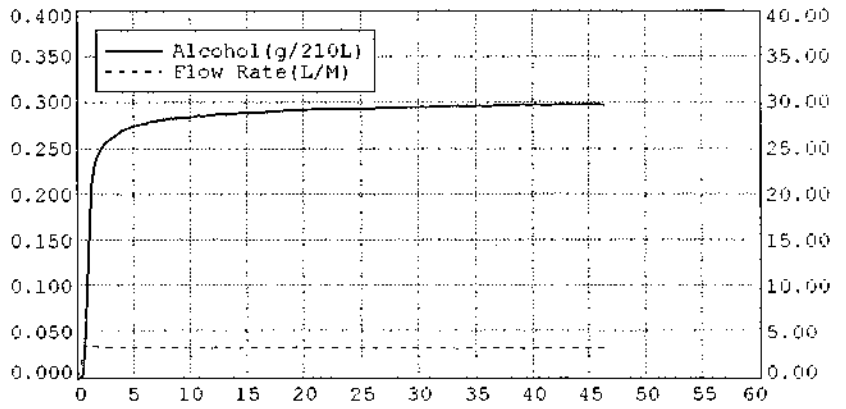
Alaska Department of Public Safety
 DATAMASTER dmt: 100690

Date: 02/12/2018
 Time: 10:16:13

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 17140
 EXPIRATION: 05/15/2019

BLANK TEST	0.000	10:17
INTERNAL STANDARD	VERIFIED	10:17
EXTERNAL STANDARD	0.299	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.299	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.299	10:21
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.301	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.302	10:23
BLANK TEST	0.000	10:24

Average = 0.3000
 Std Dev = 0.0014



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 10:51:25

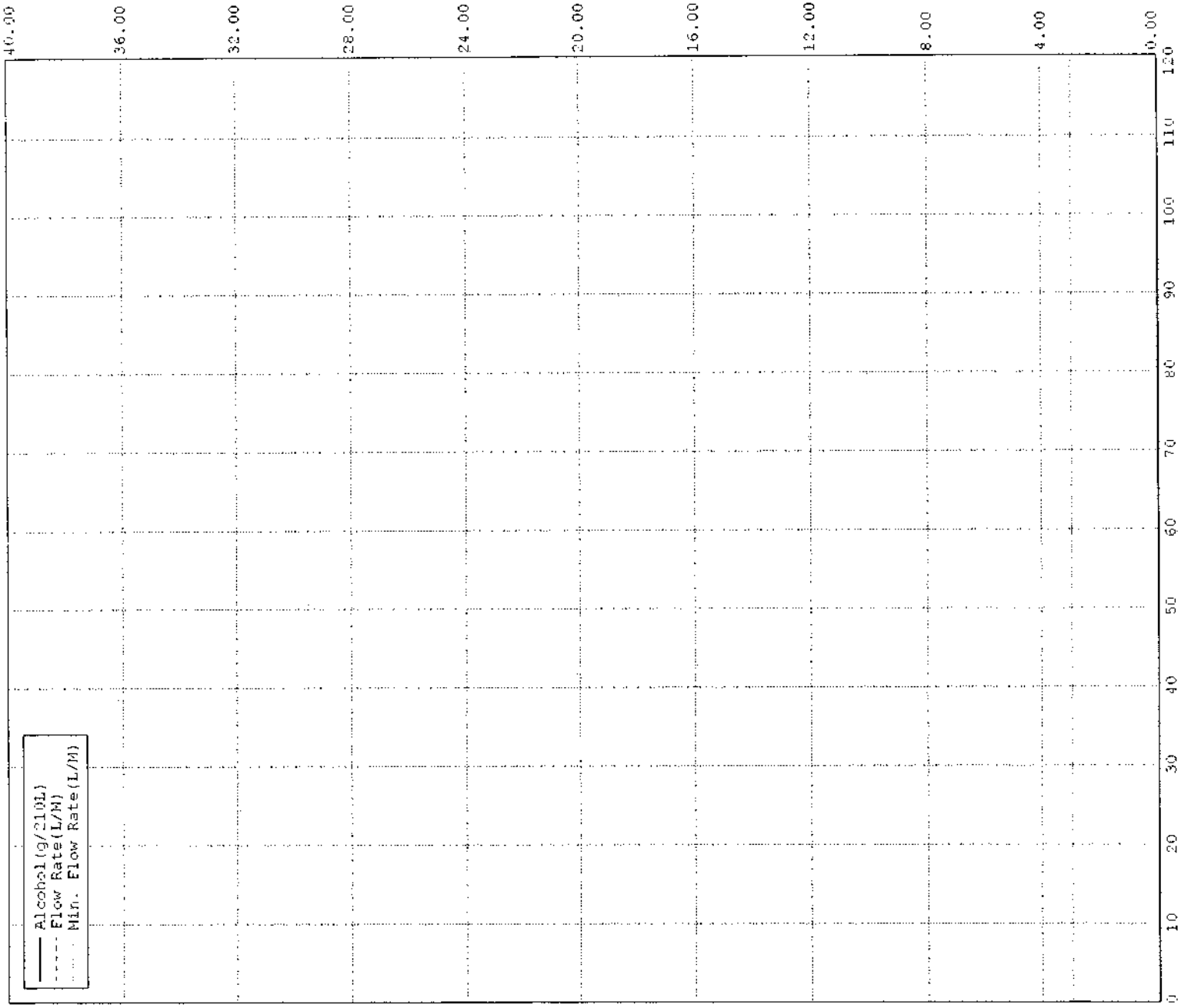
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DIAGNOSTIC CHECK PASSED 11:02
BLANK TEST 0.000 11:03
INTERNAL STANDARD VERIFIED 11:03
EXTERNAL STANDARD 0.077 11:03
BLANK TEST 0.000 11:04
SUBJECT SAMPLE INCOMPLETE 11:06



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 11:09:30

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

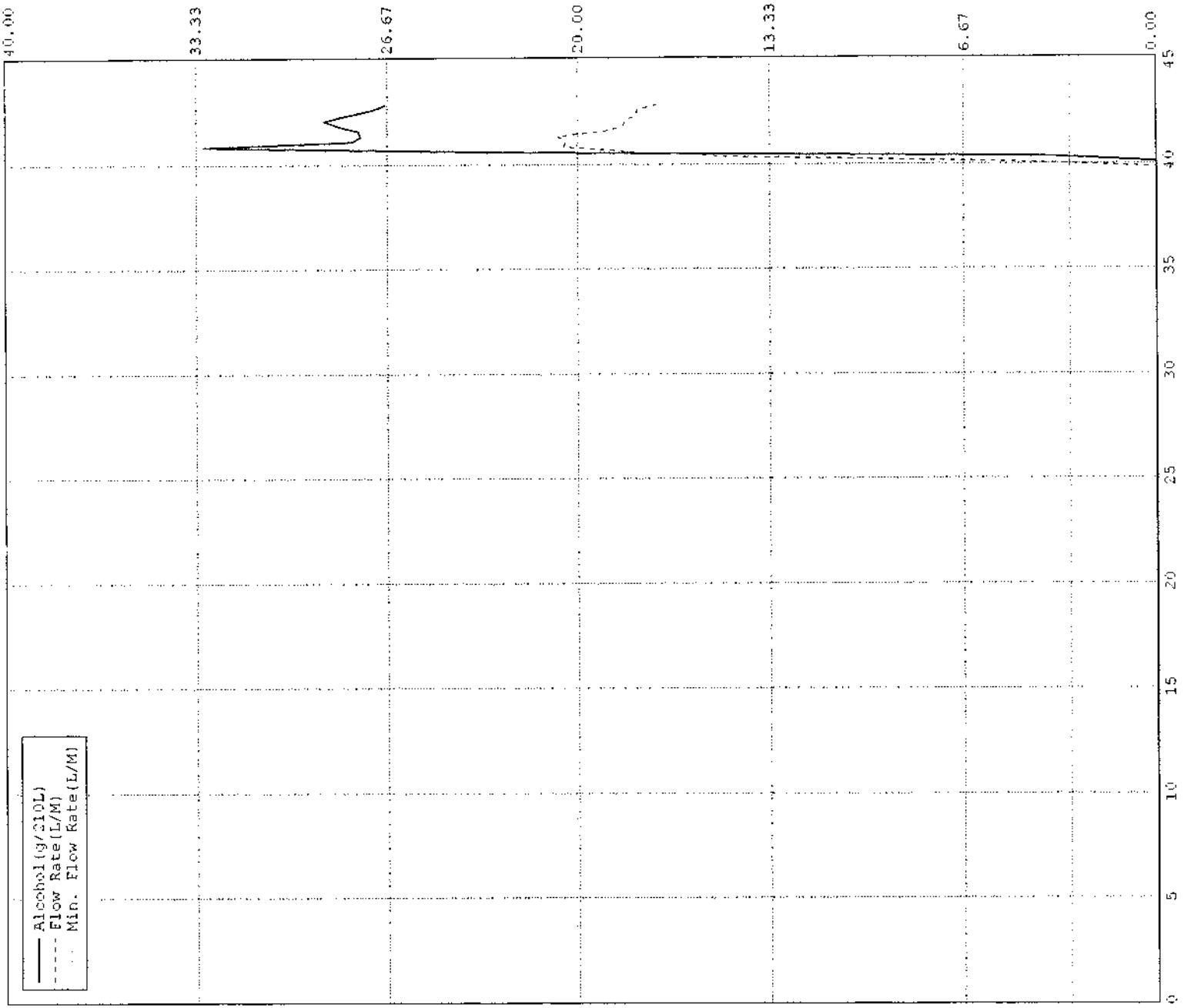
DEPT/AGENCY:
AAA1

CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.34: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	11:10
BLANK TEST	0.000	11:11
INTERNAL STANDARD	VERIFIED	11:11
EXTERNAL STANDARD	0.077	11:11
BLANK TEST	0.000	11:12
SUBJECT SAMPLE	INVALID	11:13



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 11:15:36

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 18-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

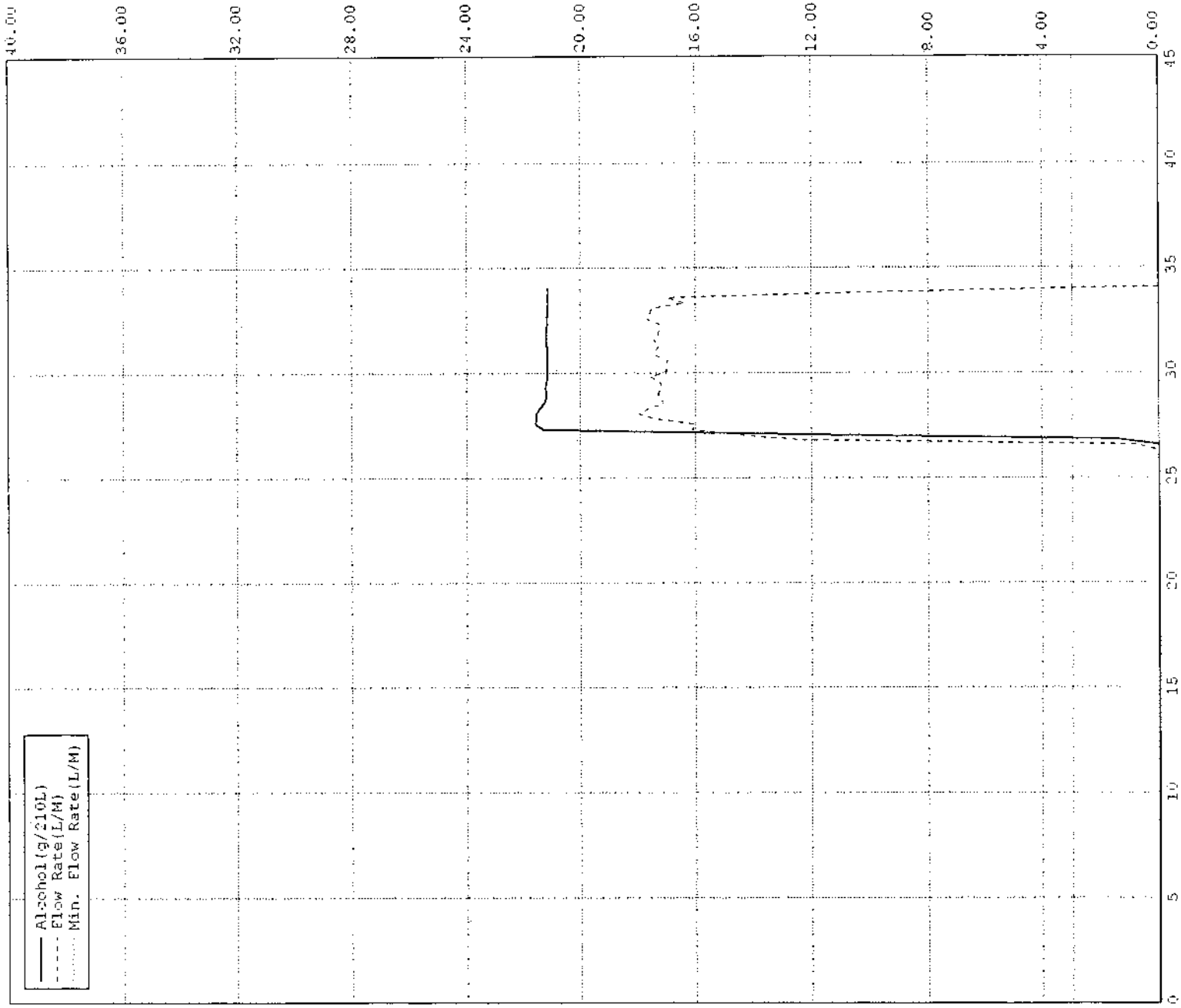
NOMINAL: 0.080
TARGET AT 29.34: 0.078
LOT #: AG634001
EXPIRATION: 12/05/2018

DIAGNOSTIC CHECK	PASSED	11:16
BLANK TEST	0.000	11:16
INTERNAL STANDARD	VERIFIED	11:16
Xq = 0.104 (0.00%)		
EXTERNAL STANDARD	0.076	11:17
X[1] = 0.0763 (0.0005) (0.0023)		
BLANK TEST	0.000	11:18
SUBJECT SAMPLE	XXX	11:18
X[1] = 0.1051 (-0.0172) (0.0004)		

Interference Detected

Filter 2 avg = 0.0008
Filter 3 avg = 0.0023

CS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 11:21:26

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

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

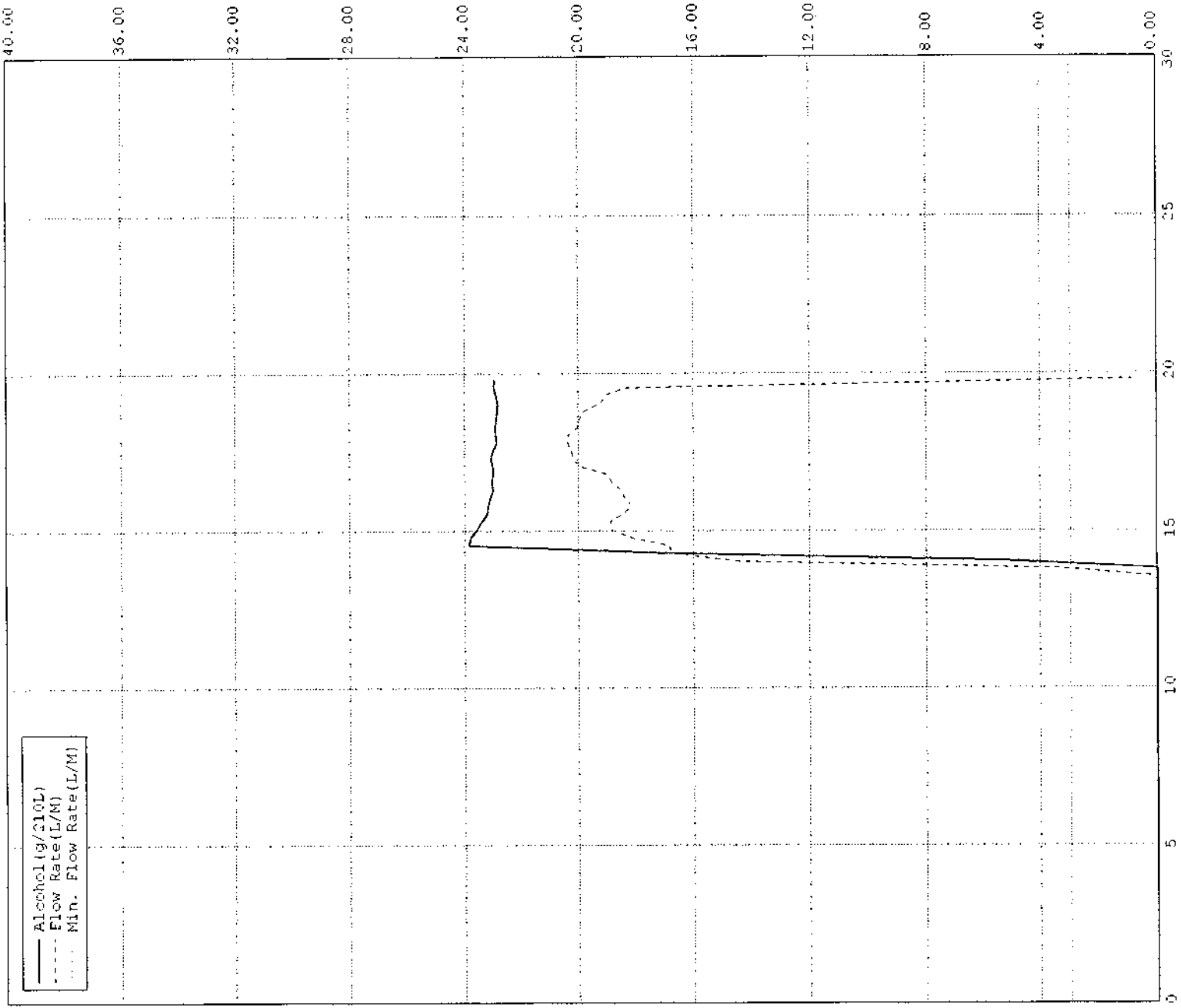
EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK	PASSED	11:22
BLANK TEST	0.000	11:22
INTERNAL STANDARD	VERIFIED	11:22
Xq = 0.103 (0.08%)		
EXTERNAL STANDARD	0.076	11:23
X[1] = 0.0763 (0.0008) (0.0025)		
BLANK TEST	0.000	11:24
SUBJECT SAMPLE	XXX	11:24
X[1] = 0.1140 (-0.0171) (0.0019)		

Interference Detected

ms



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 11:26:49

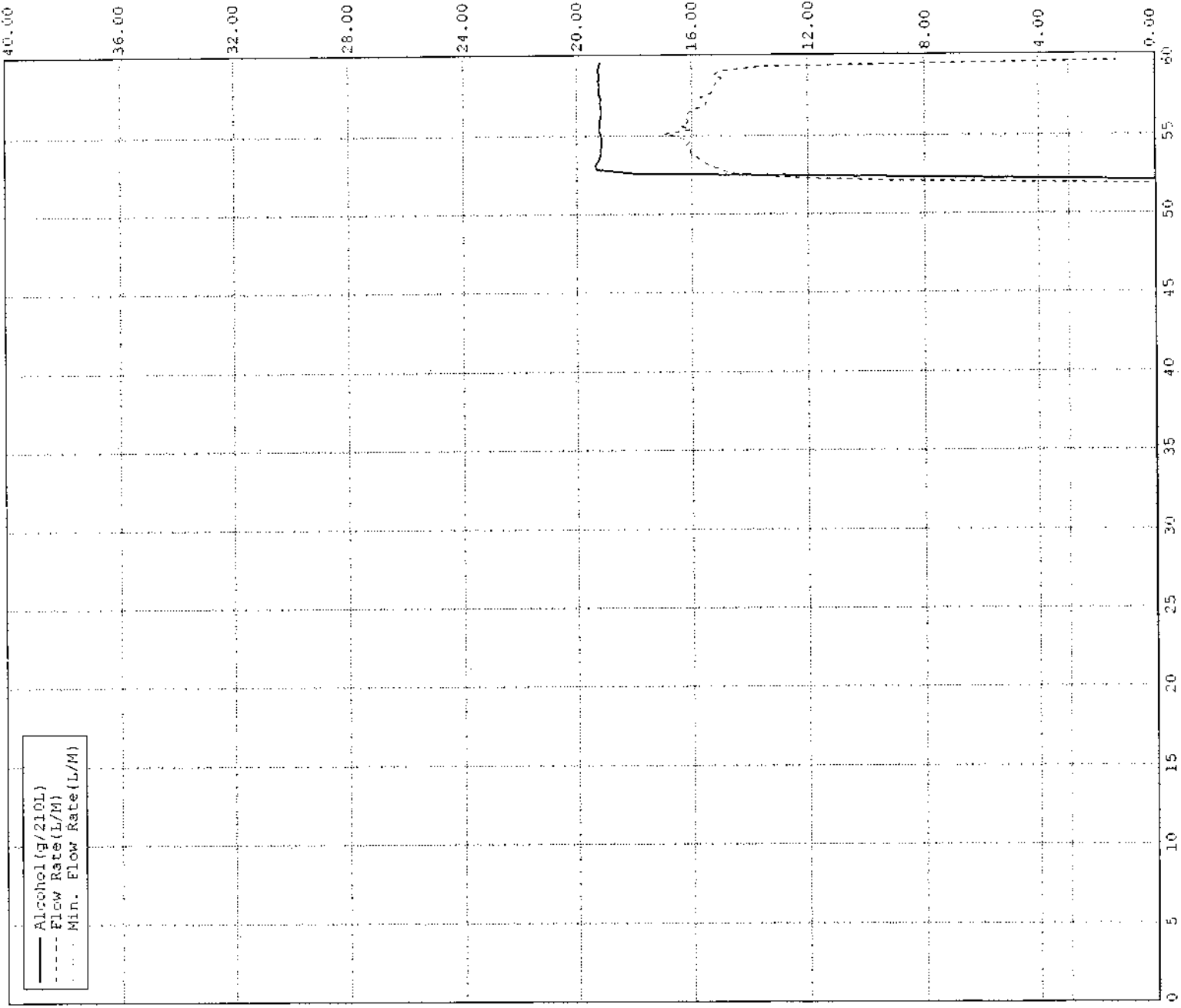
SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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	11:27
BLANK TEST	0.000	11:28
INTERNAL STANDARD	VERIFIED	11:28
Xq = 0.104 (0.00%)		
EXTERNAL STANDARD	0.077	11:28
X[1] = 0.0767 (0.0009)	(0.0026)	
BLANK TEST	0.000	11:29
SUBJECT SAMPLE (Vol=1.92L)	0.095	11:30
X[1] = 0.0956 (0.0012)	(0.0008)	
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.077	11:31
X[1] = 0.0766 (0.0011)	(0.0017)	
BLANK TEST	0.000	11:32



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 11:38:02

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

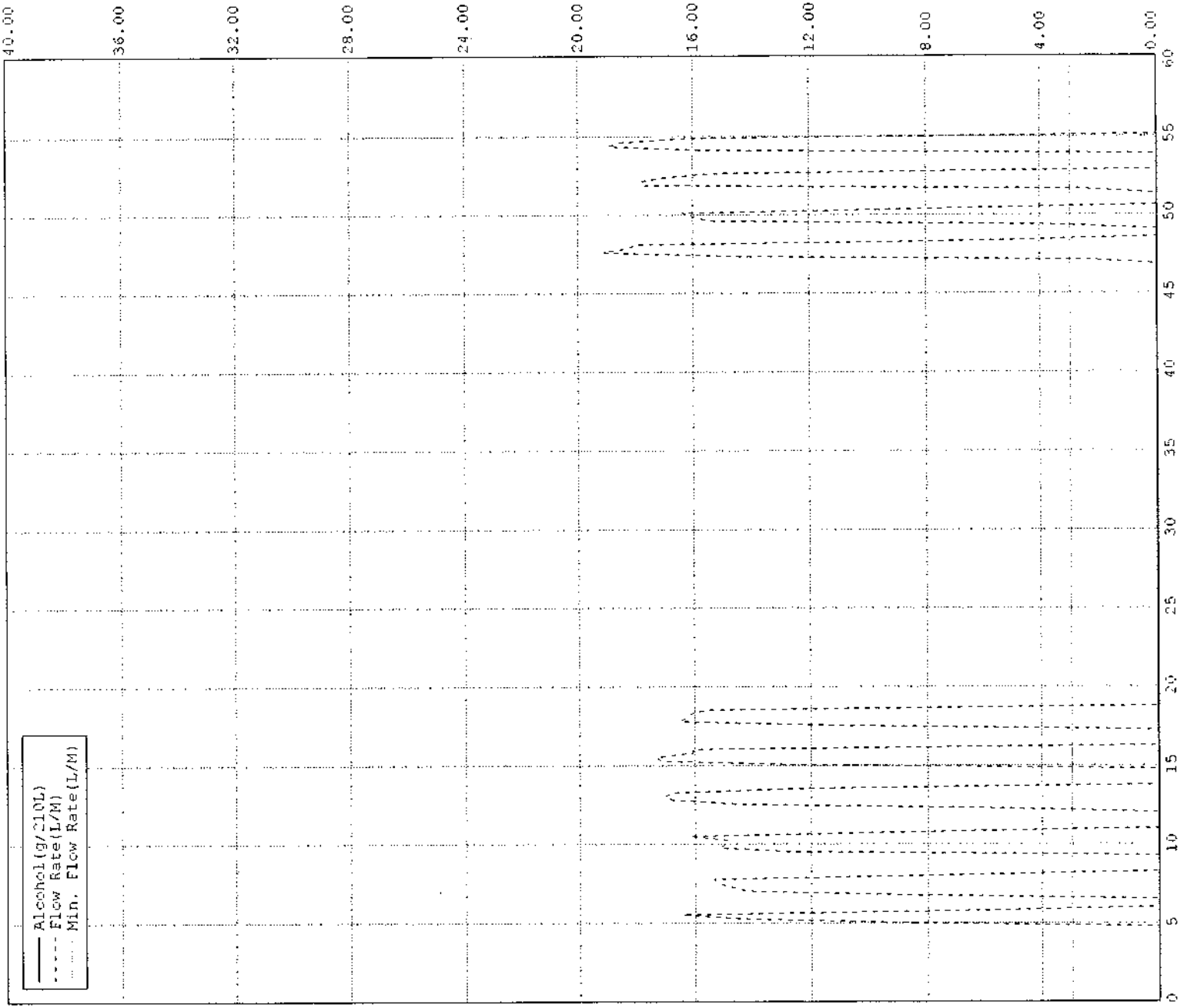
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

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

DIAGNOSTIC CHECK PASSED 11:39
BLANK TEST 0.000 11:39
INTERNAL STANDARD VERIFIED 11:39
EXTERNAL STANDARD 0.077 11:39
BLANK TEST 0.000 11:40
SUBJECT SAMPLE XXX 11:41

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 13:27:08

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

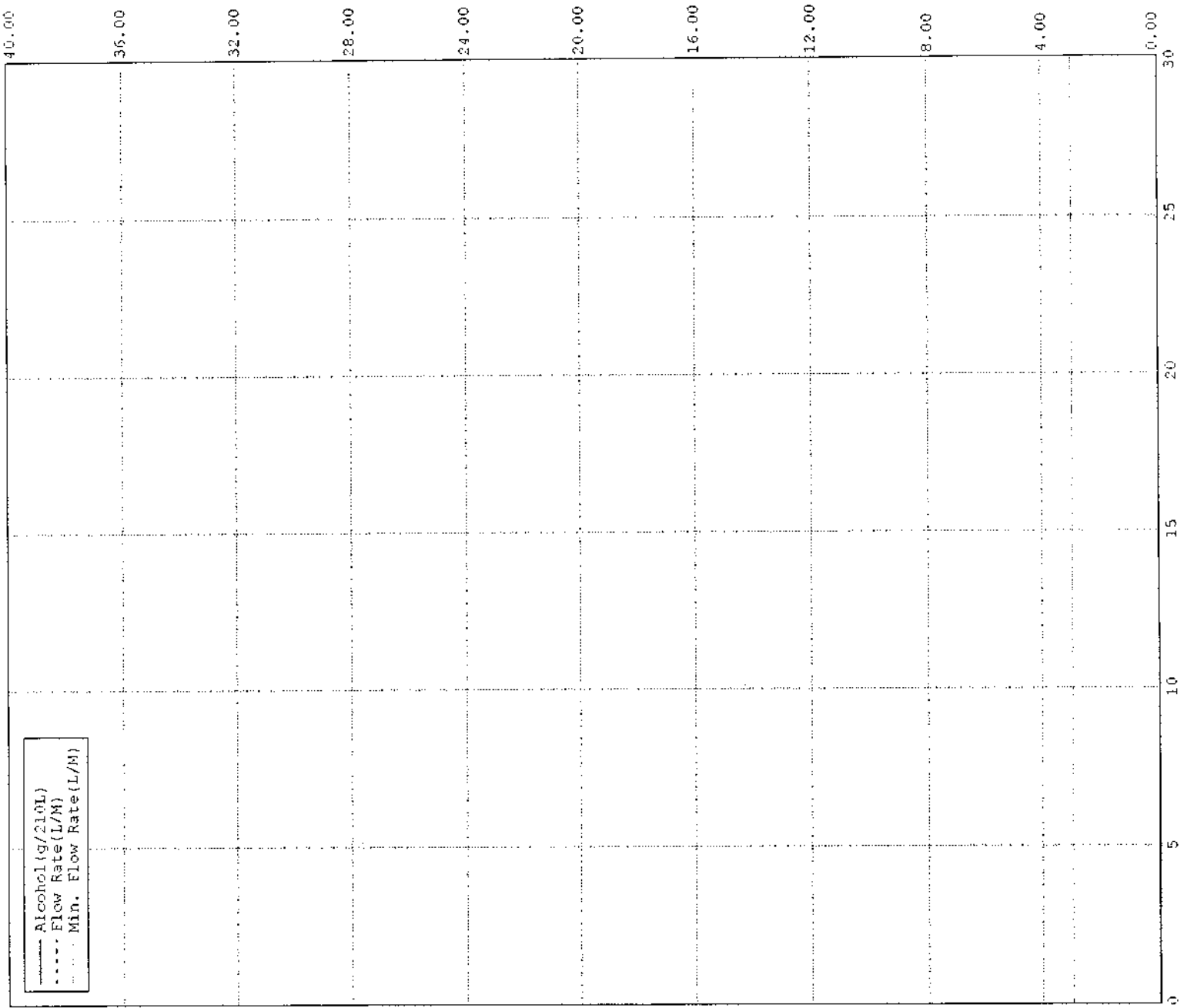
DEPT/AGENCY:
AAA1
CASE/REPORT: 18-1234
TEST TYPE: TEST

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

DIAGNOSTIC CHECK PASSED 13:36
BLANK TEST 0.000 13:36
INTERNAL STANDARD VERIFIED 13:36
EXTERNAL STANDARD 0.077 13:36
BLANK TEST 0.000 13:37

RFI DETECTED

TK



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 02/12/2018
Time: 13:49:45

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
AAAI
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	13:50
BLANK TEST	0.000	13:50
INTERNAL STANDARD	VERIFIED	13:51
EXTERNAL STANDARD	0.077	13:51
BLANK TEST	0.000	13:52
SUBJECT SAMPLE (Vol=1.82L)	0.000	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.077	13:53
BLANK TEST	0.000	13:54

