

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 100667 Analyst C. O. Bryant Start Date 4/28/20

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 Argon Lot AG 928203 Exp 10/9/21

ii. 0.040g/210L Mnf Argon Lot AG915607 Exp 6/5/21

iii. 0.080g/210L Mnf Argon Lot AG826101 Exp 9/18/20

iv. 0.100g/210L Mnf Argon Lot AG 924701 Exp 9/4/21

v. 0.200g/210L Mnf Buth Lot 19200 Exp 8/6/21

1. Simulator S/N DR4176 Date Calibrated 10/7/19

vi. 0.300g/210L Mnf Buth Lot 19330 Exp 11/13/21

1. Simulator S/N DR4178 Date Calibrated 10/4/19

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Buth Lot 19301 Level 0.100 Exp 10/30/21

1. Simulator S/N DR4162 Date Calibrated 10/7/19

ii. Isopropanol - Mnf Buth Lot 19301 Level 0.100 Exp 10/30/21

1. Simulator S/N DR4163 Date Calibrated 10/4/19

iii. Negative Control - Mnf Buth Lot 19301 Level 0.100 Exp 10/30/21

1. Simulator S/N SD1176 Date Calibrated 10/7/19

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 4/28/20

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 04/28/2020
Time: 10:59:30

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 44.8°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.91 V PASSED
(1.15 V - 2.67 V)
Cooler Voltage = 1.93 V PASSED
(1.16 V - 2.70 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 529 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 5.239 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 = 0.113 0.47% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100667

Date: 04/28/2020
Time: 11:24 AM

Temperatures (°C)

Sample Cell: 49.2°C
Breath Tube: 45.0°C

Current Barometer 29.4 in
Volume (Ltr) 1.53

Settings

Lamp: 1.91 V
Bias: 80 V
Cooler: 1.93 V
Chopper: 528 Hz

Voltages (V)

Flow: 1.07 V
Detector: -0.080 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 04/21/2020
Time: 09:14:41

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.982698 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0061 0.0010 <= b2 < 0.0100
b3 = 0.0009 0.0000 <= b3 < 0.0040
Xq = 0.1126 0.0500 <= Xq < 0.2000
a21 = 1.230172 1.050 <= a21 < 1.300
a31 = 0.488061 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 04/28/2020
Time: 11:25:30

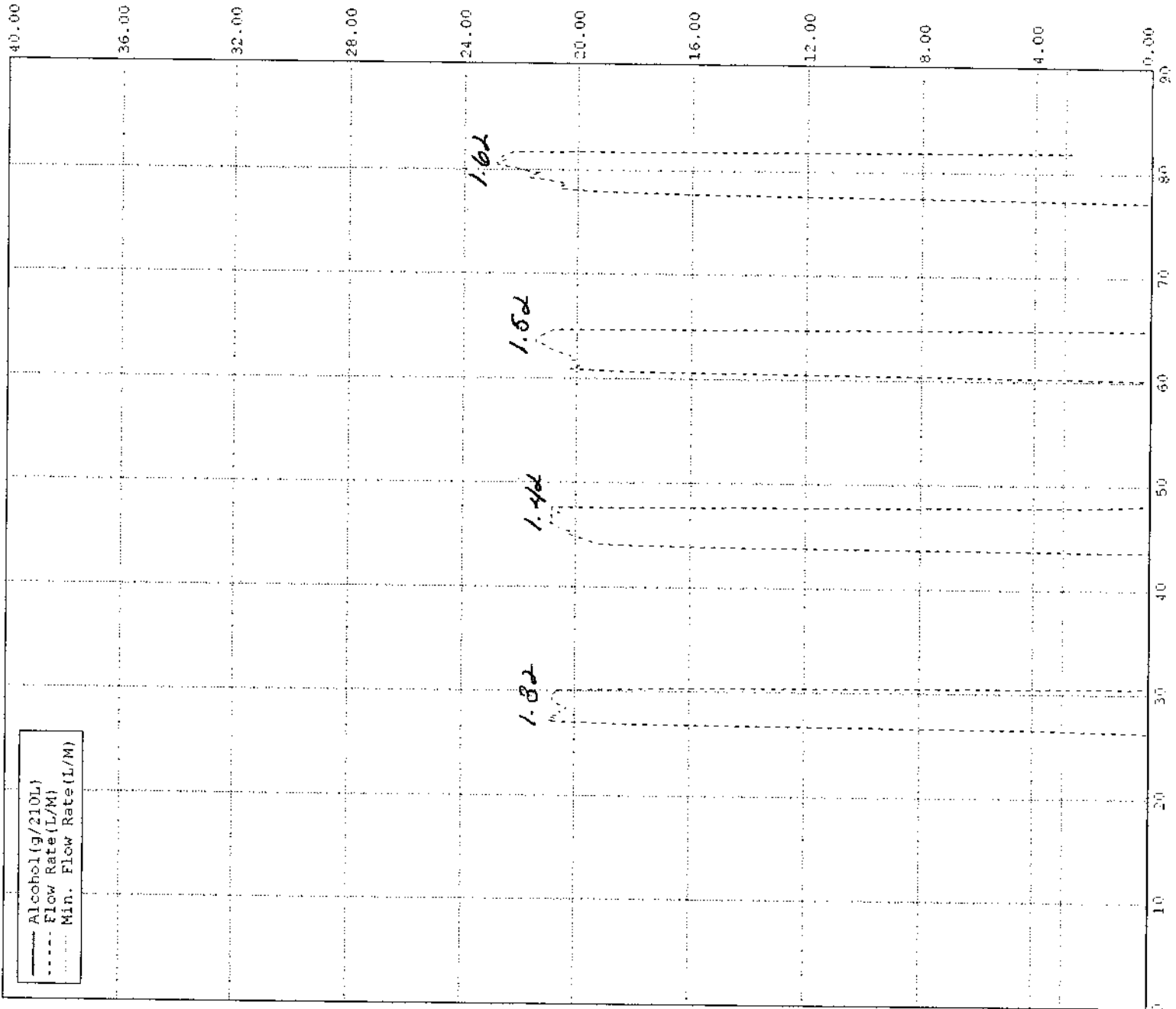
SUBJECT NAME:
TEST TEST
LICENSE #: MIN VOLUME

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.37: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	11:26
BLANK TEST	0.000	11:26
INTERNAL STANDARD	VERIFIED	11:26
EXTERNAL STANDARD	0.076	11:27
BLANK TEST	0.000	11:28
SUBJECT SAMPLE (Vol=1.54L)	0.000	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.077	11:30
BLANK TEST	0.000	11:31



LINEARITY CHECK

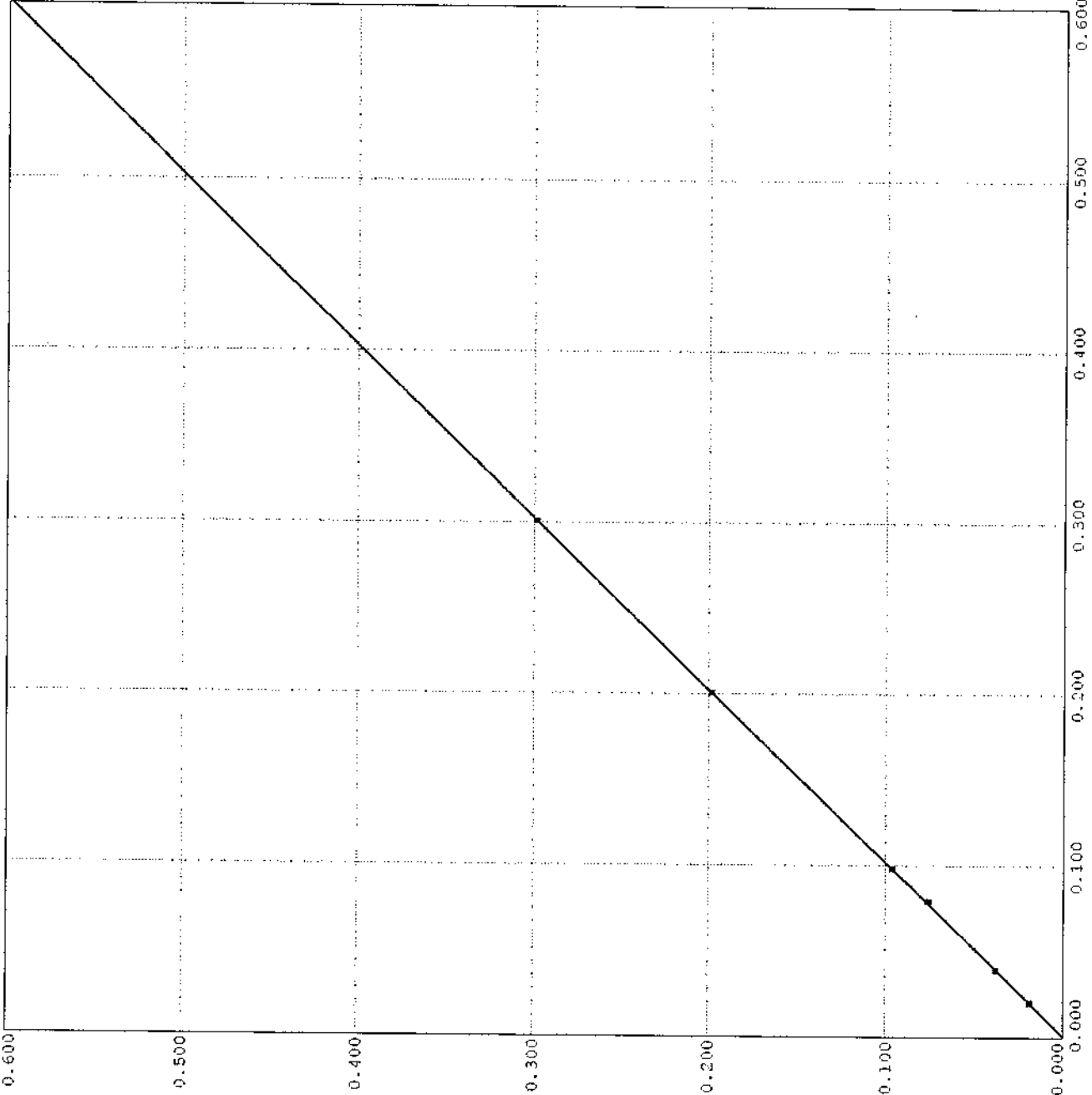
Alaska Department of Public Safety
 DATAMASTER dmt: 100667

Date: 04/28/2020
 Time: 11:34:57

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.039	0.0390	0.0000
0.079	0.0770	0.0000
0.098	0.0972	0.0004
0.200	0.1992	0.0004
0.300	0.2990	0.0007

SLOPE = 0.998416
 R² = 0.999963



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

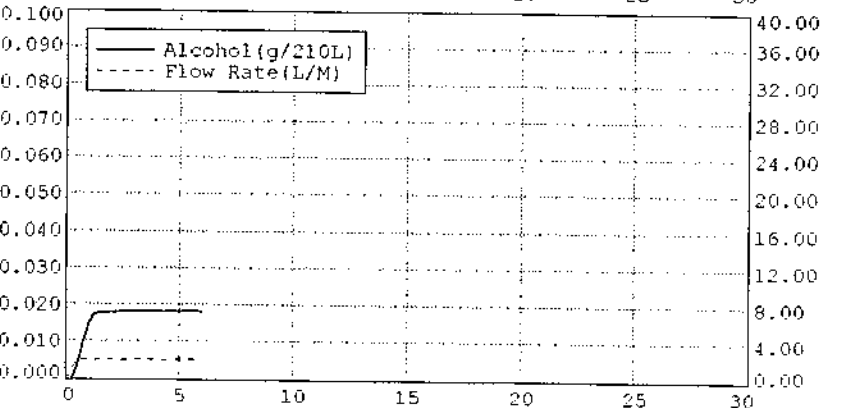
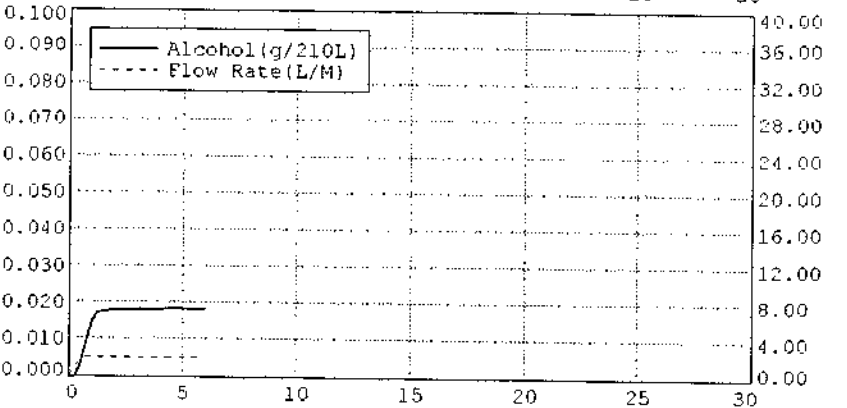
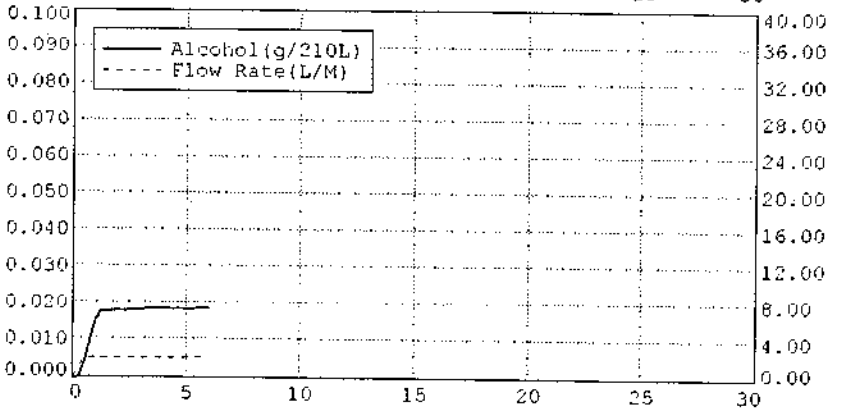
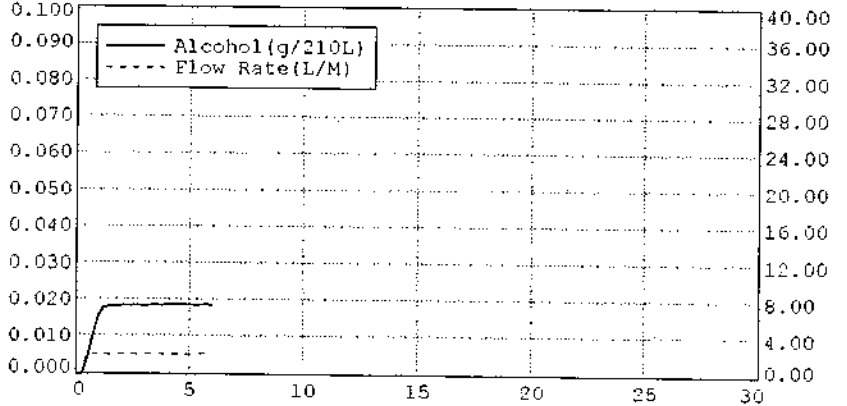
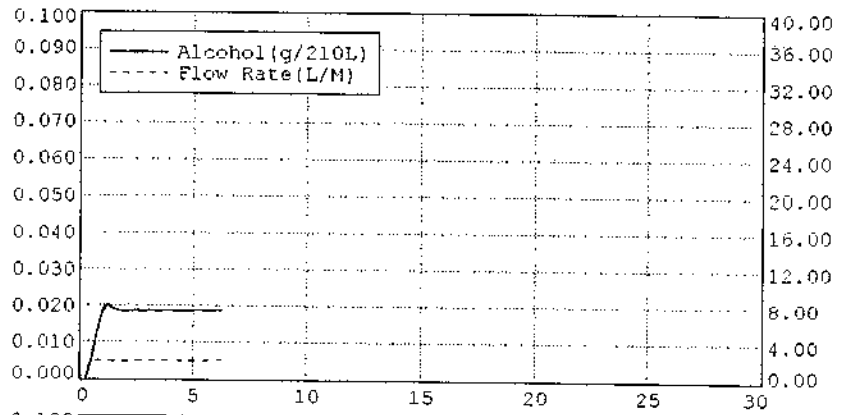
Date: 04/28/2020
 Time: 11:35:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.38: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 975 psi

BLANK TEST	0.000	11:49
INTERNAL STANDARD	VERIFIED	11:50
EXTERNAL STANDARD	0.020	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.020	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.019	11:52
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.019	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.020	11:54
BLANK TEST	0.000	11:55

Average = 0.0196
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

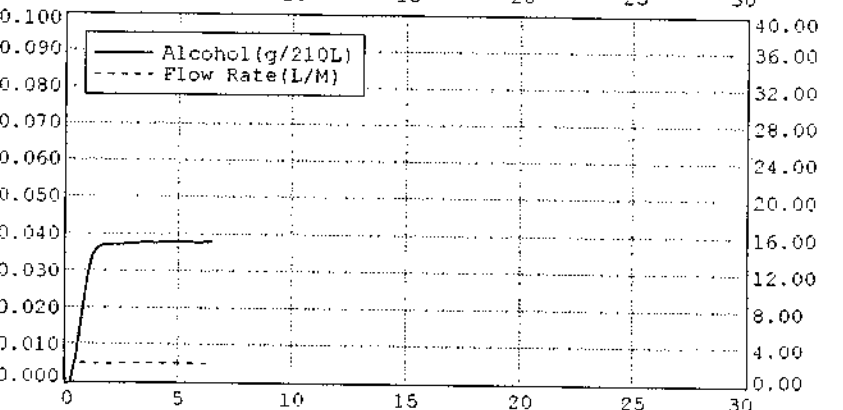
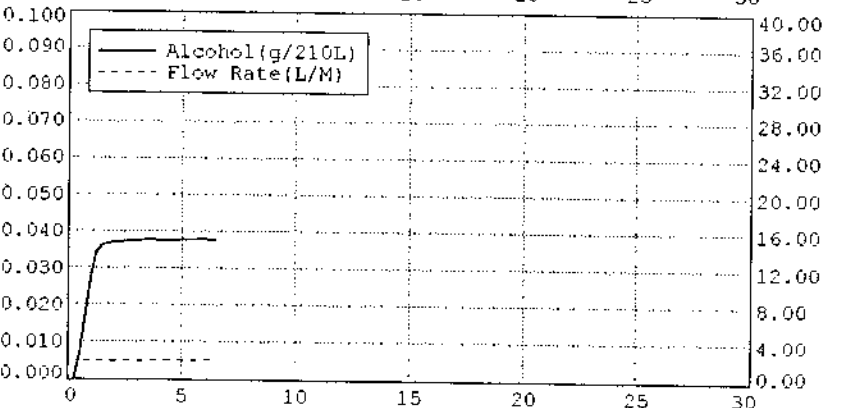
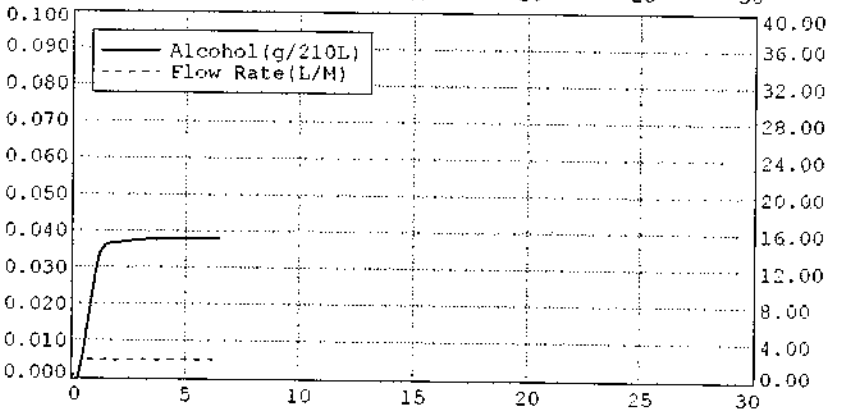
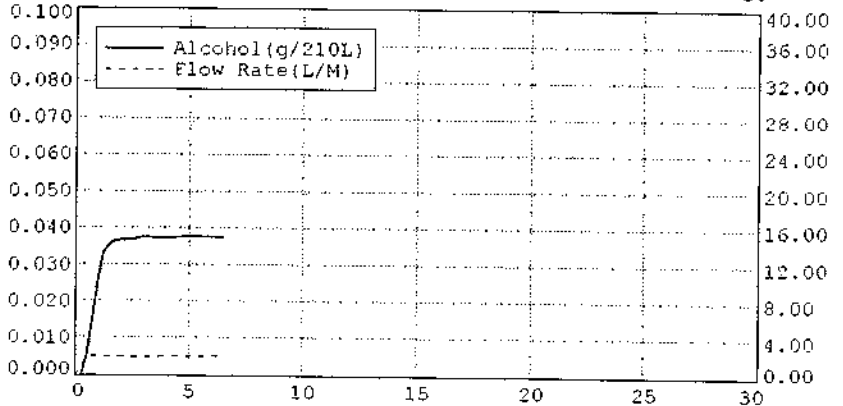
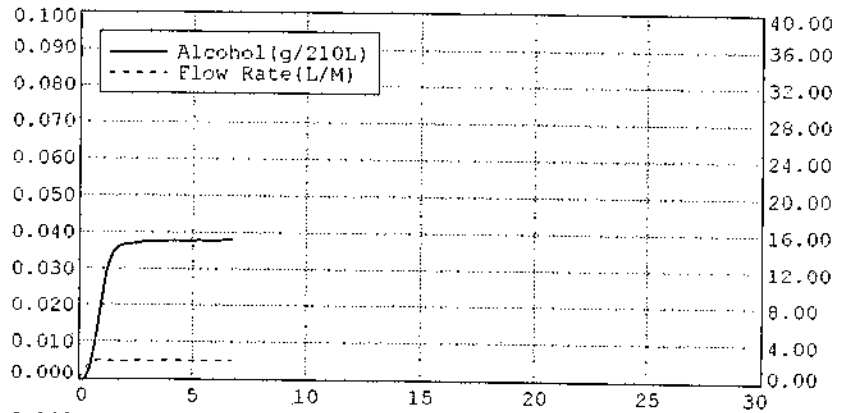
Date: 04/28/2020
 Time: 11:59:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.37: 0.039
 LOT #: AG915607
 EXPIRATION: 06/05/2021
 TANK PRESSURE: 796 psi

BLANK TEST	0.000	12:00
INTERNAL STANDARD	VERIFIED	12:00
EXTERNAL STANDARD	0.039	12:00
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.039	12:01
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.039	12:03
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.039	12:04
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.039	12:05
BLANK TEST	0.000	12:06

Average = 0.0390
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

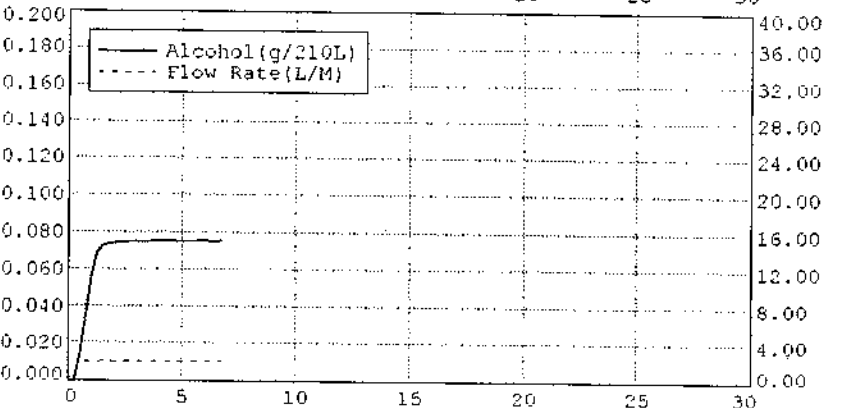
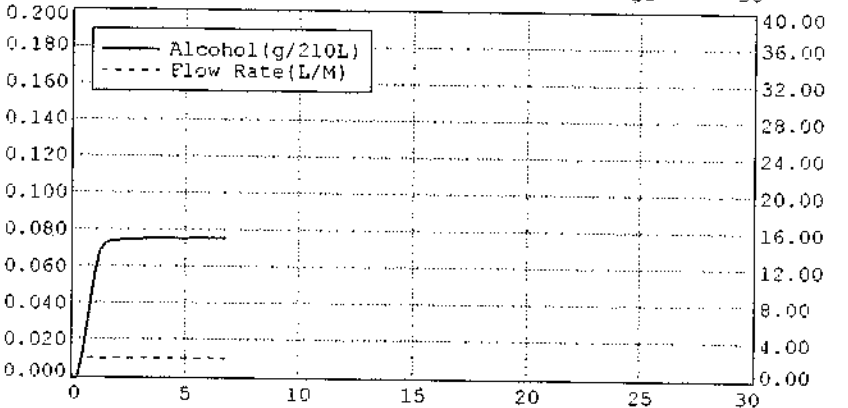
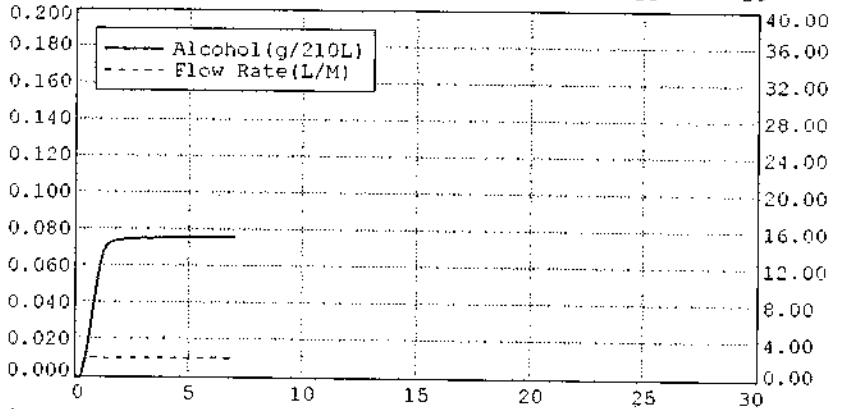
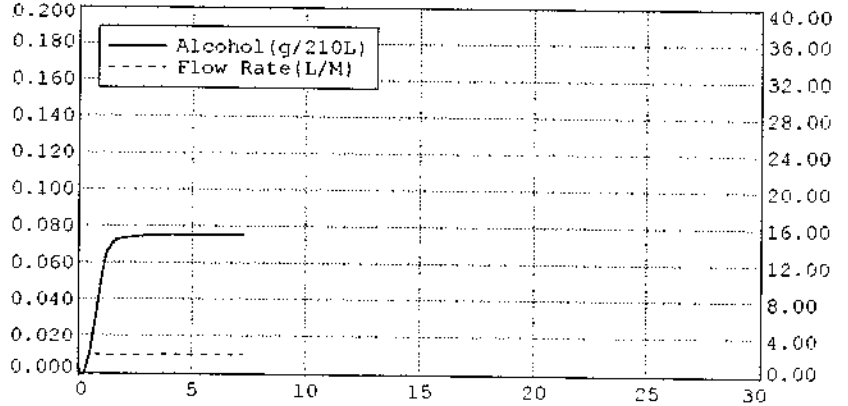
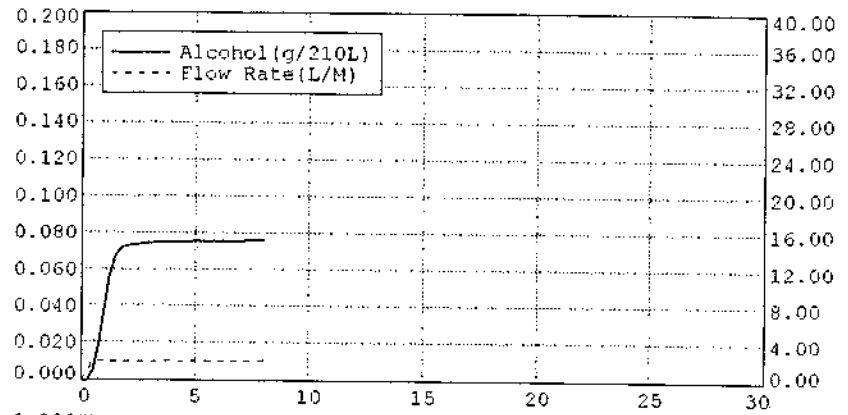
Date: 04/28/2020
 Time: 12:07:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.37: 0.079
 LOT #: AG826101
 EXPIRATION: 09/18/2020
 TANK PRESSURE: 705 psi

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

Average = 0.0770
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

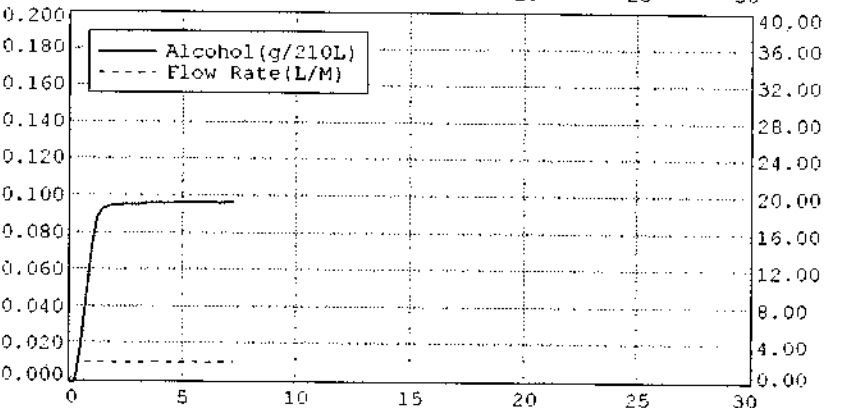
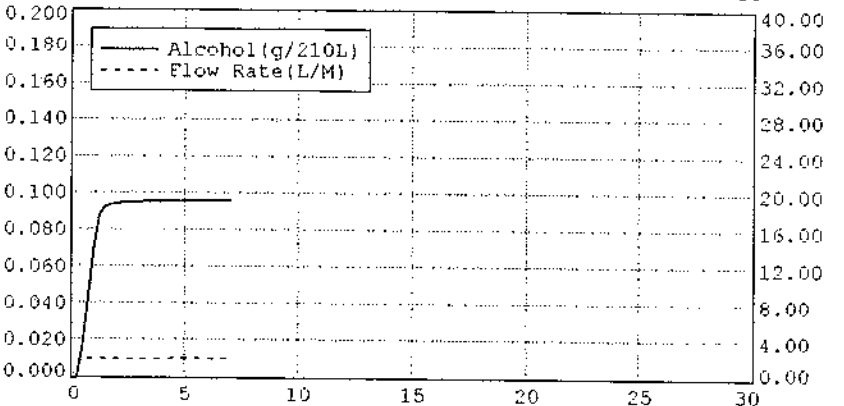
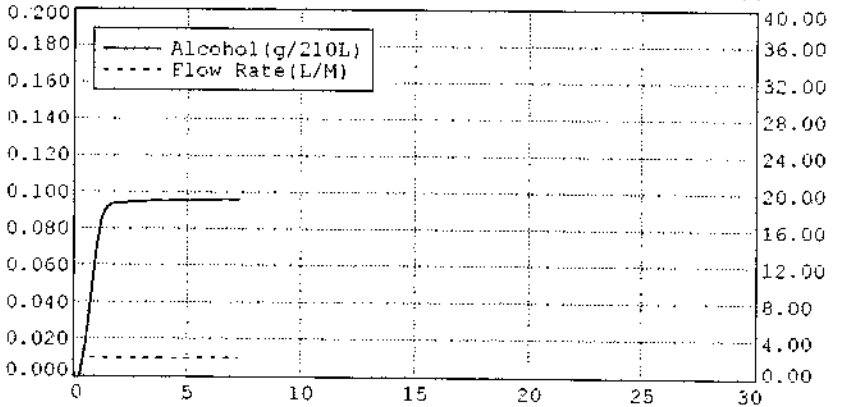
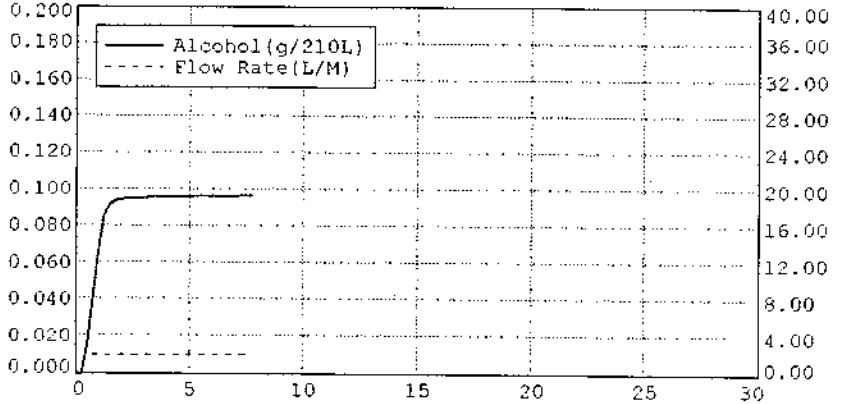
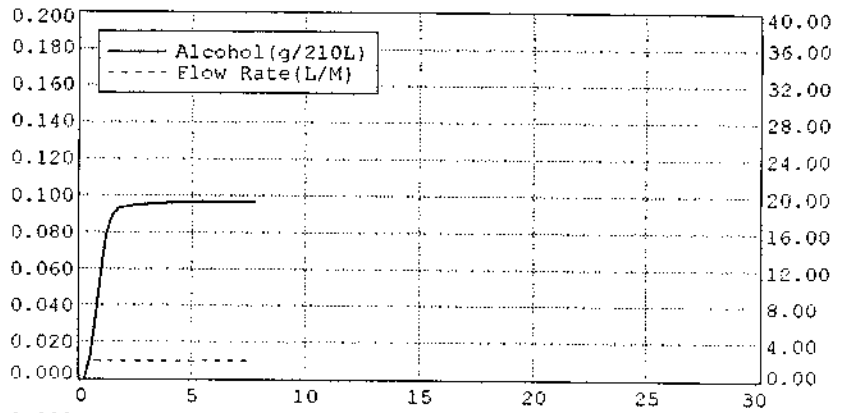
Date: 04/28/2020
 Time: 12:15:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.37: 0.098
 LOT #: AG924701
 EXPIRATION: 09/04/2021
 TANK PRESSURE: 580 psi

BLANK TEST	0.000	12:16
INTERNAL STANDARD	VERIFIED	12:16
EXTERNAL STANDARD	0.098	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.097	12:17
BLANK TEST	0.000	12:18
EXTERNAL STANDARD	0.097	12:18
BLANK TEST	0.000	12:19
EXTERNAL STANDARD	0.097	12:19
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.097	12:21
BLANK TEST	0.000	12:22

Average = 0.0972
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

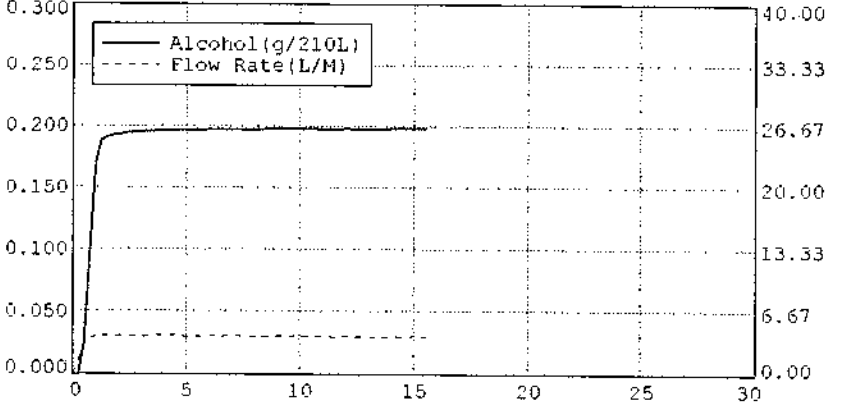
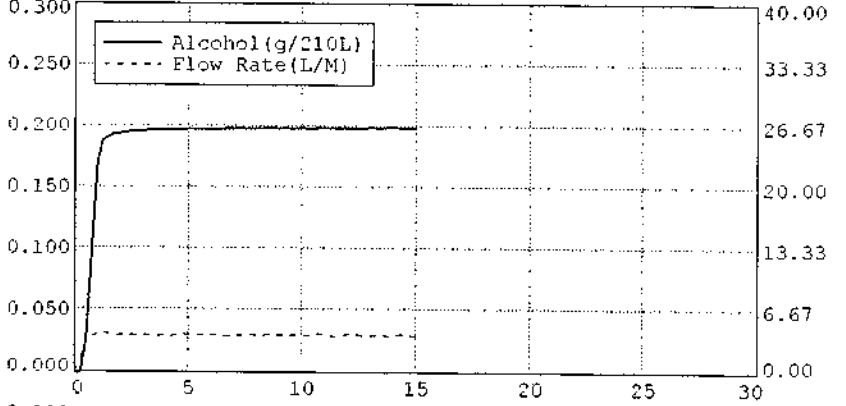
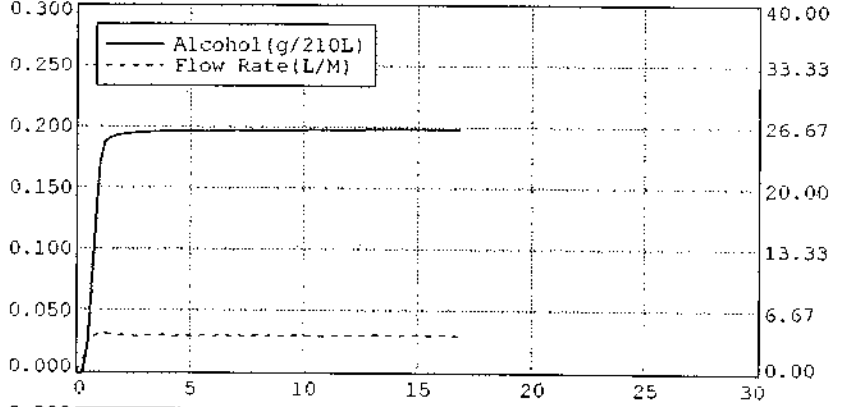
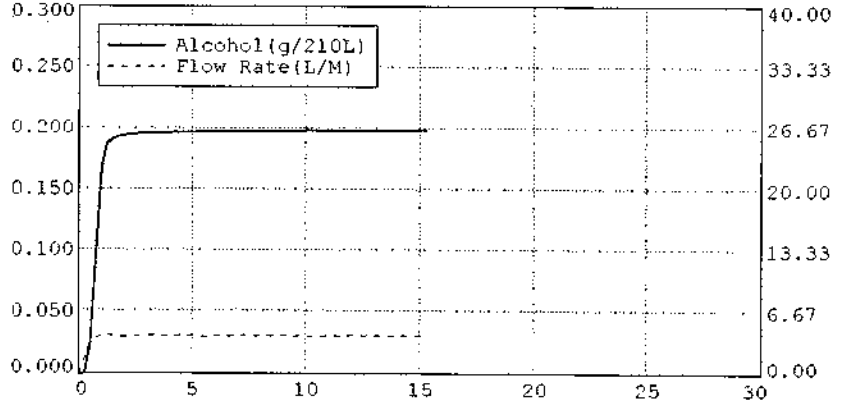
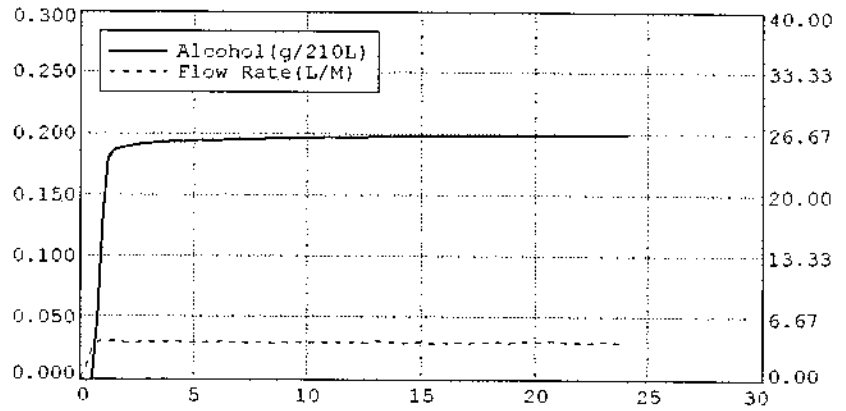
Date: 04/28/2020
 Time: 12:23:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 19200
 EXPIRATION: 08/06/2021

BLANK TEST	0.000	12:25
INTERNAL STANDARD	VERIFIED	12:25
EXTERNAL STANDARD	0.200	12:25
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.199	12:27
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.199	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.199	12:29
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.199	12:31
BLANK TEST	0.000	12:31

Average = 0.1992
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

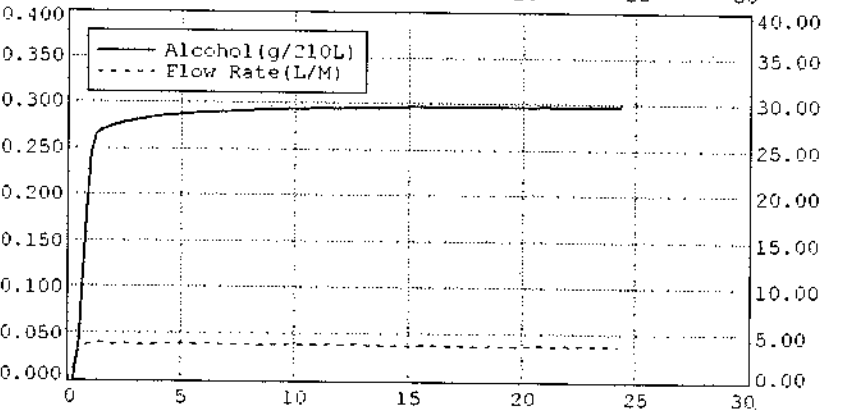
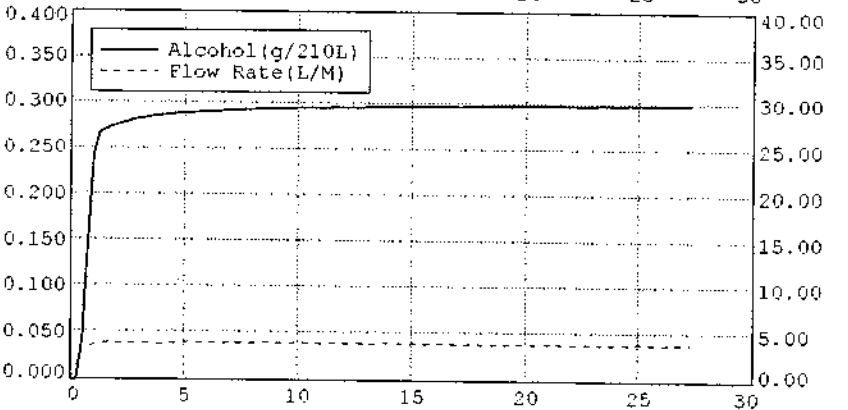
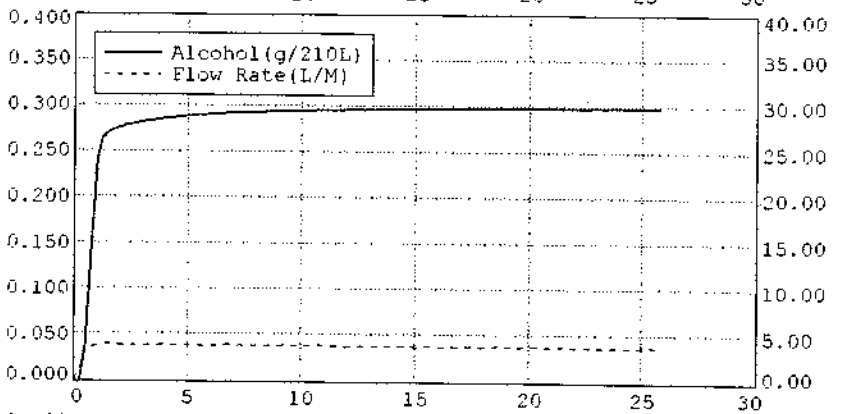
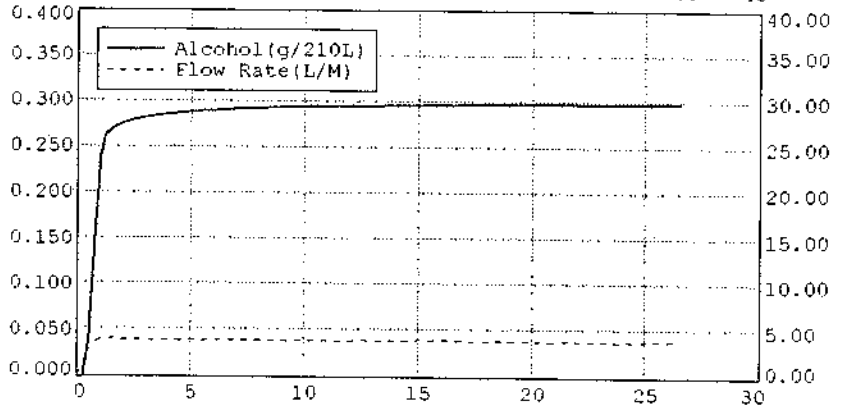
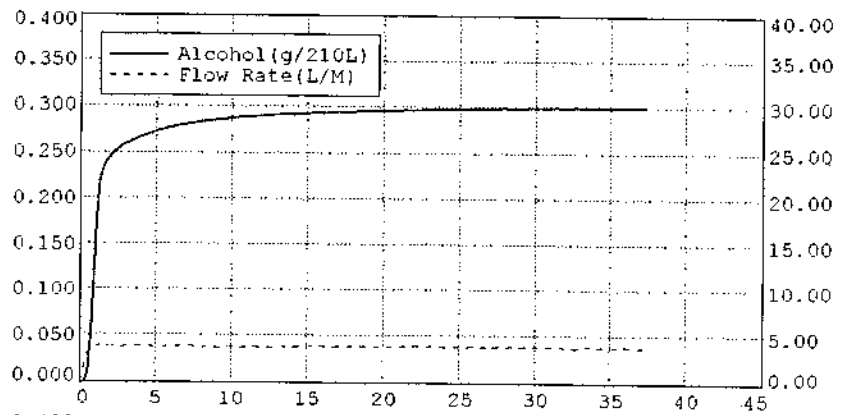
Date: 04/28/2020
 Time: 12:44:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 19330
 EXPIRATION: 11/13/2021

BLANK TEST	0.000	12:45
INTERNAL STANDARD	VERIFIED	12:45
EXTERNAL STANDARD	0.300	12:46
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.299	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.299	12:49
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.299	12:51
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.298	12:52
BLANK TEST	0.000	12:53

Average = 0.2990
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 04/28/2020
Time: 13:39:13

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAA1

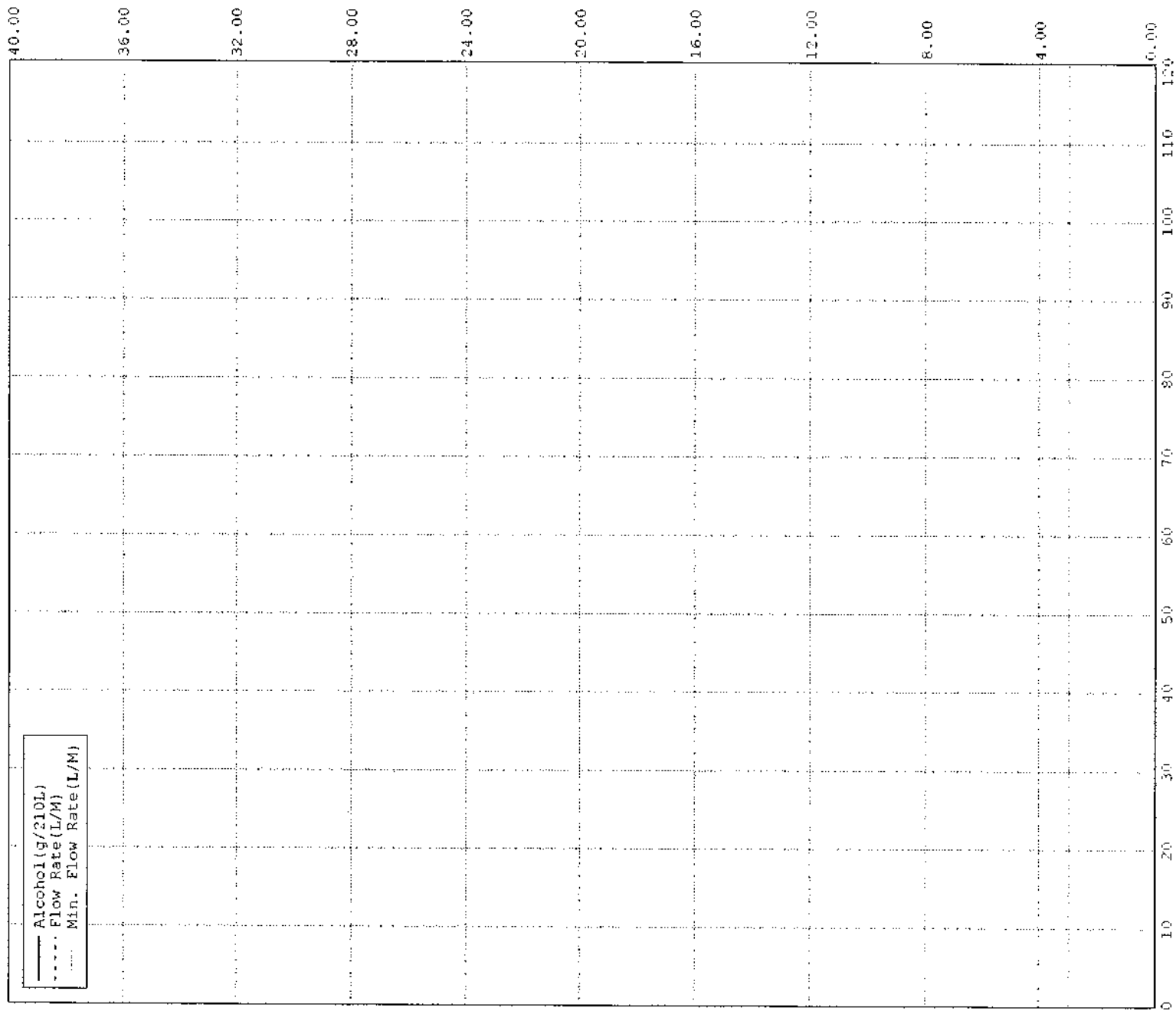
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.36: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 13:40
BLANK TEST 0.000 13:40
INTERNAL STANDARD VERIFIED 13:40
EXTERNAL STANDARD 0.078 13:41
BLANK TEST 0.000 13:42
SUBJECT SAMPLE INCOMPLETE 13:44

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 04/28/2020
Time: 13:54:58

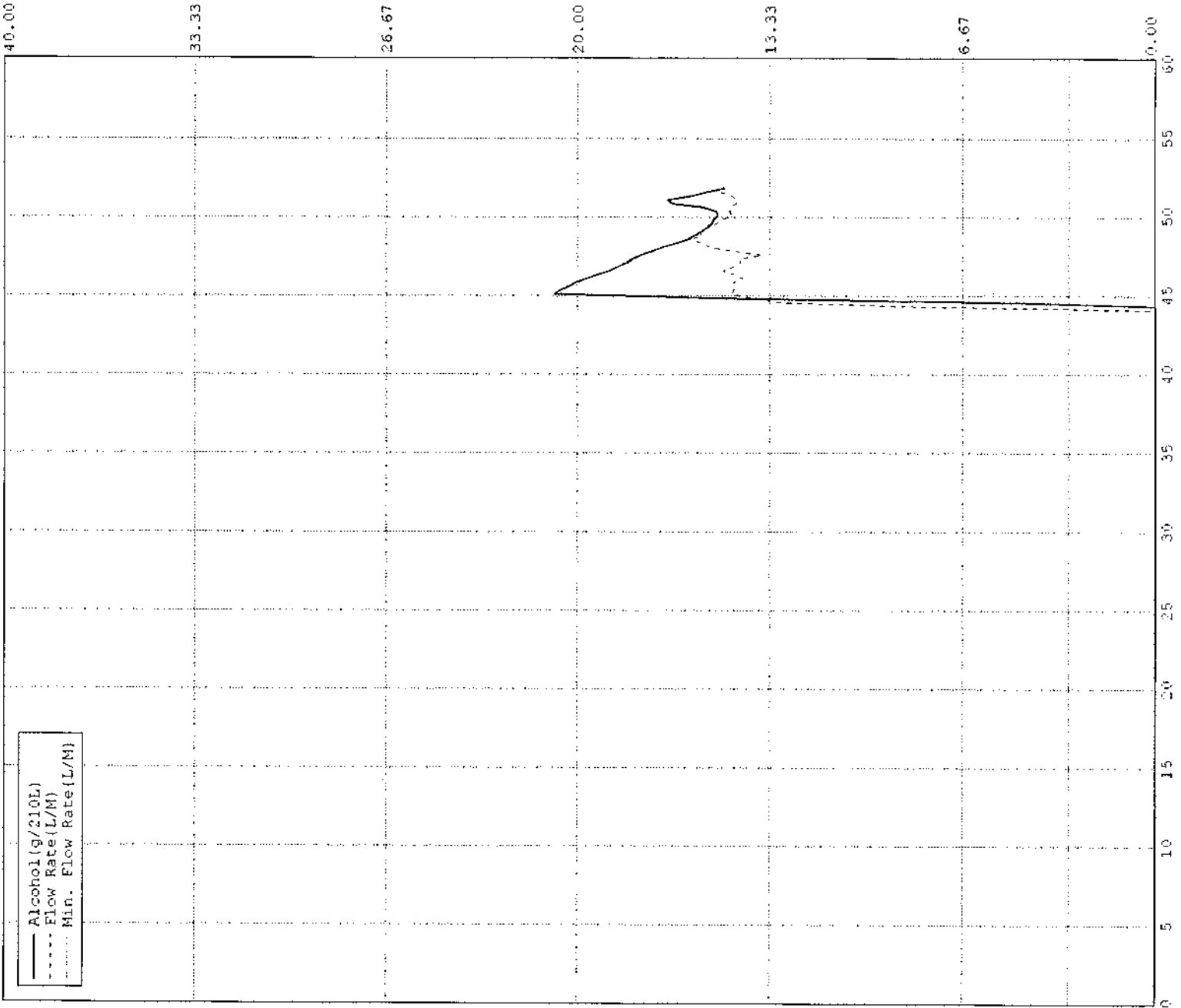
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.35: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 14:01
BLANK TEST 0.000 14:02
INTERNAL STANDARD VERIFIED 14:02
EXTERNAL STANDARD 0.078 14:02
BLANK TEST 0.000 14:03
SUBJECT SAMPLE INVALID 14:04



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 04/28/2020
Time: 13:01:06

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

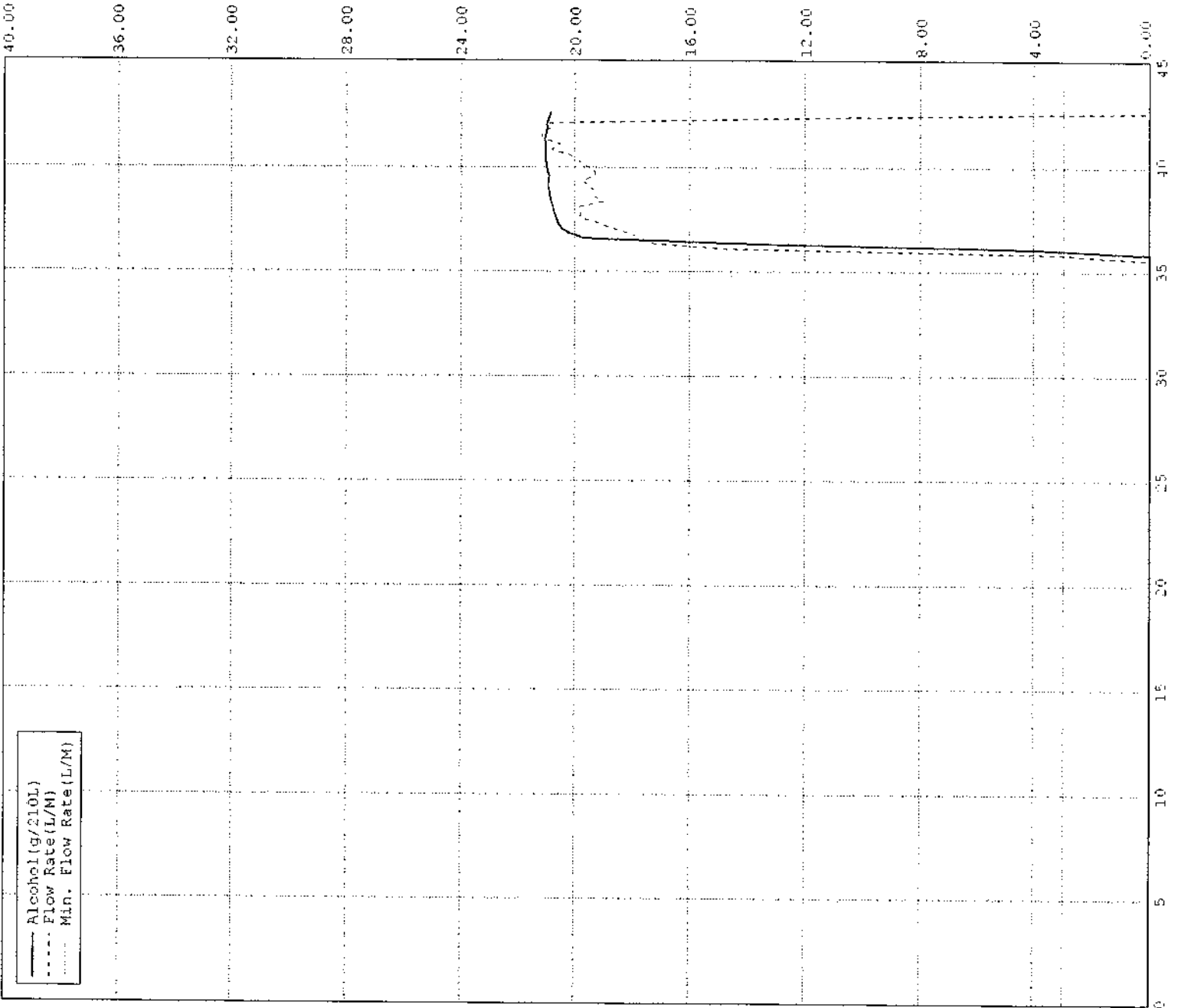
DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.37: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	13:04
BLANK TEST	0.000	13:04
INTERNAL STANDARD	VERIFIED	13:05
Xq = 0.114 (1.41%)		
EXTERNAL STANDARD	0.077	13:05
X[1] = 0.0774 (0.0004) (0.0040)		
BLANK TEST	0.000	13:06
SUBJECT SAMPLE	XXX	13:07
X[1] = 0.1047 (-0.0175) (0.0027)		

Interference Detected

Filter 2 avg = 0.0001
Filter 3 avg = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 04/28/2020
Time: 13:09:58

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

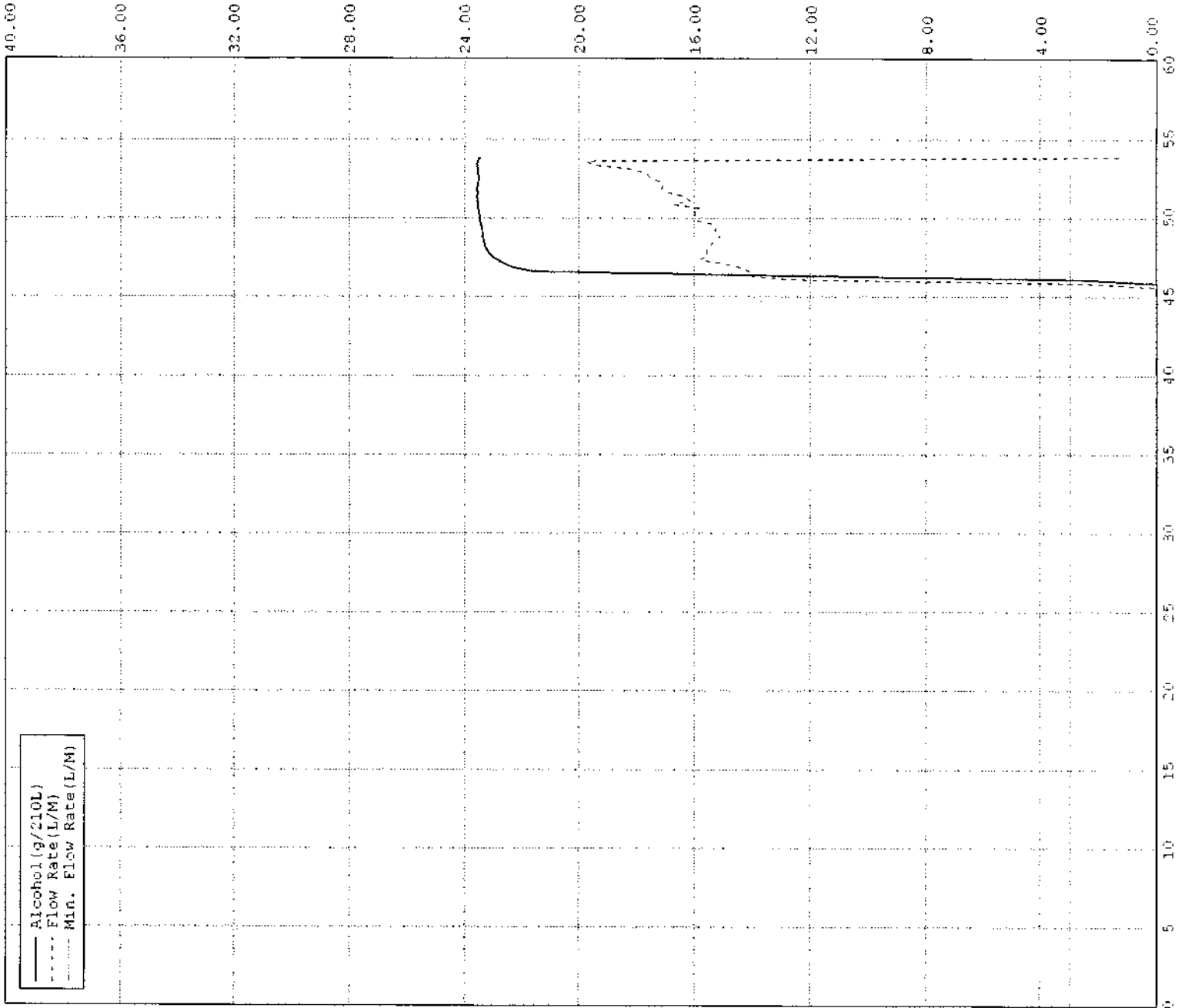
DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.36: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 13:11
BLANK TEST 0.000 13:11
INTERNAL STANDARD VERIFIED 13:11
Xg = 0.114 (1.18%)
EXTERNAL STANDARD 0.077 13:11
X[1] = 0.0774 (0.0004) (0.0039)
BLANK TEST 0.000 13:12
SUBJECT SAMPLE XXX 13:13
X[1] = 0.1174 (-0.0305) (0.0050)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100667

Date: 04/28/2020
Time: 13:16:36

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

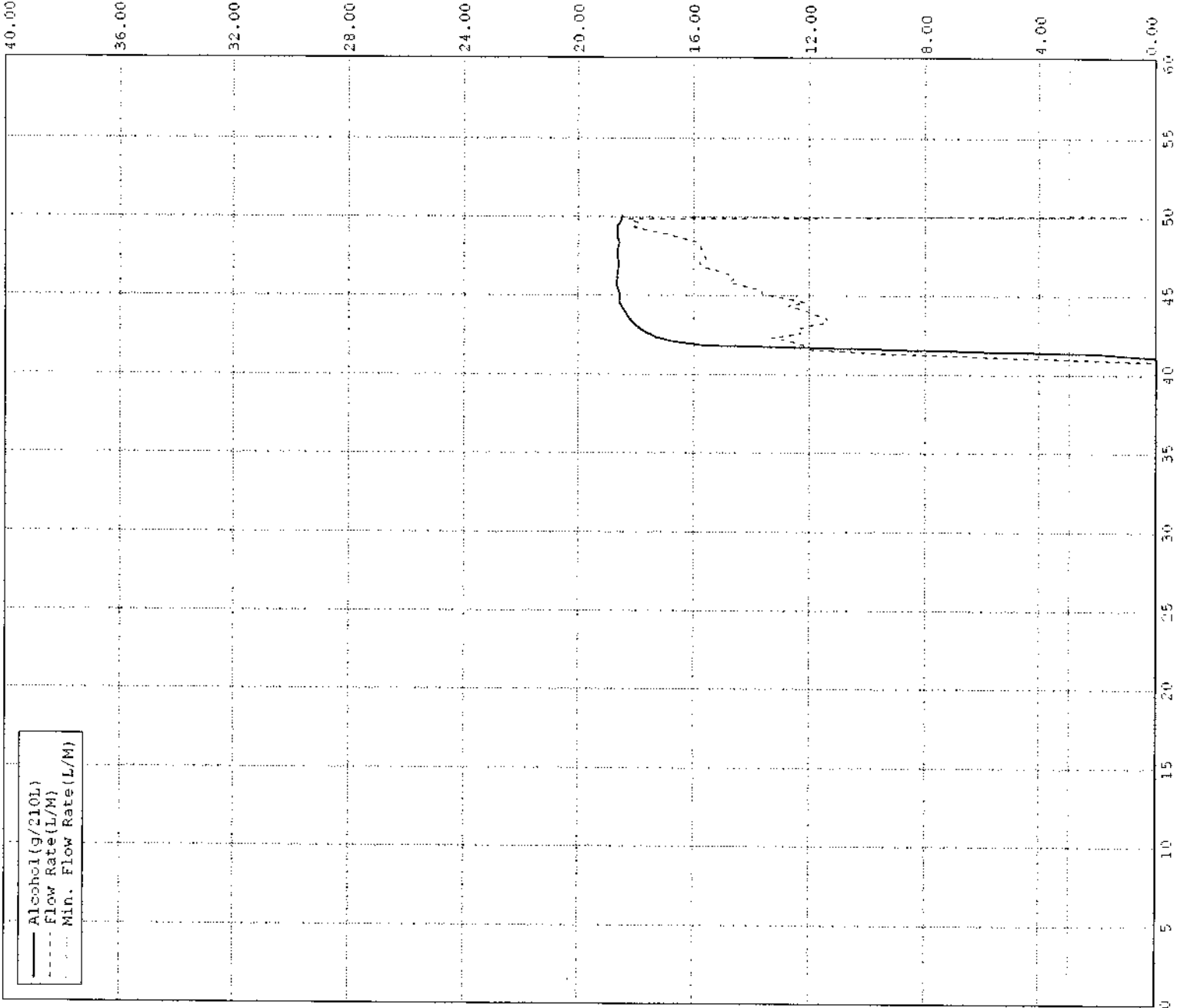
DEPT/AGENCY:
AAA1

CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.36: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	13:17
BLANK TEST	0.000	13:17
INTERNAL STANDARD	VERIFIED	13:17
Xq = 0.114 (0.94%)		
EXTERNAL STANDARD	0.077	13:18
X[1] = 0.0766 (-0.0004)	(0.0043)	
BLANK TEST	0.000	13:19
SUBJECT SAMPLE (Vol=2.10L)	0.092	13:19
X[1] = 0.0928 (0.0003)	(0.0036)	
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.077	13:21
X[1] = 0.0767 (0.0001)	(0.0027)	
BLANK TEST	0.000	13:21



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100667

Date: 04/28/2020

Time: 13:33:37

SUBJECT NAME:

TEST TEST

LICENSE #: MAX ATTEMPTS

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 20-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.36: 0.079

LOT #: AG826101

EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK

PASSED 13:34

BLANK TEST

0.000

INTERNAL STANDARD

VERIFIED 13:34

EXTERNAL STANDARD

0.077

BLANK TEST

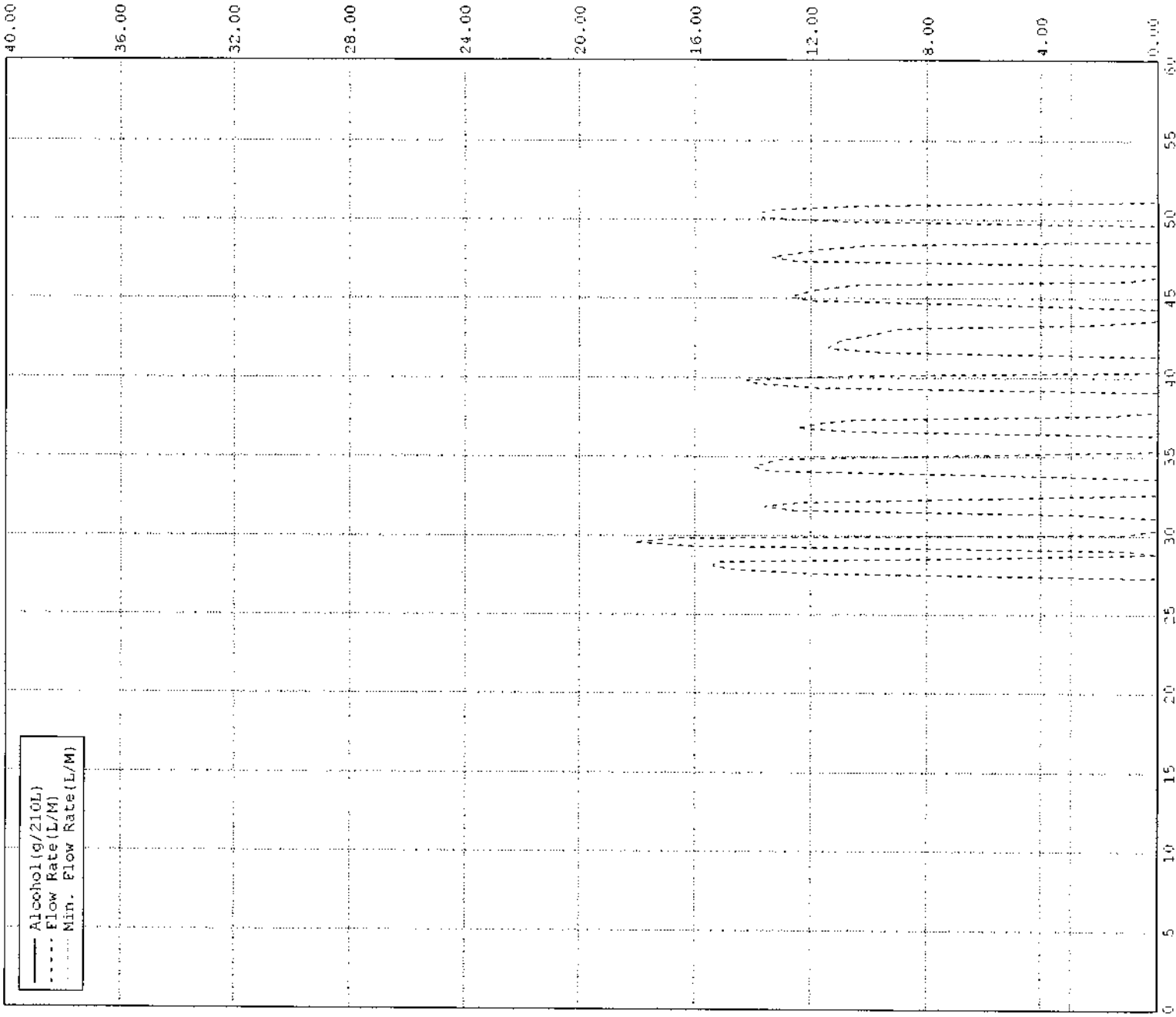
0.000

SUBJECT SAMPLE

XXX

13:37

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 04/28/2020
Time: 13:48:24

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAA1

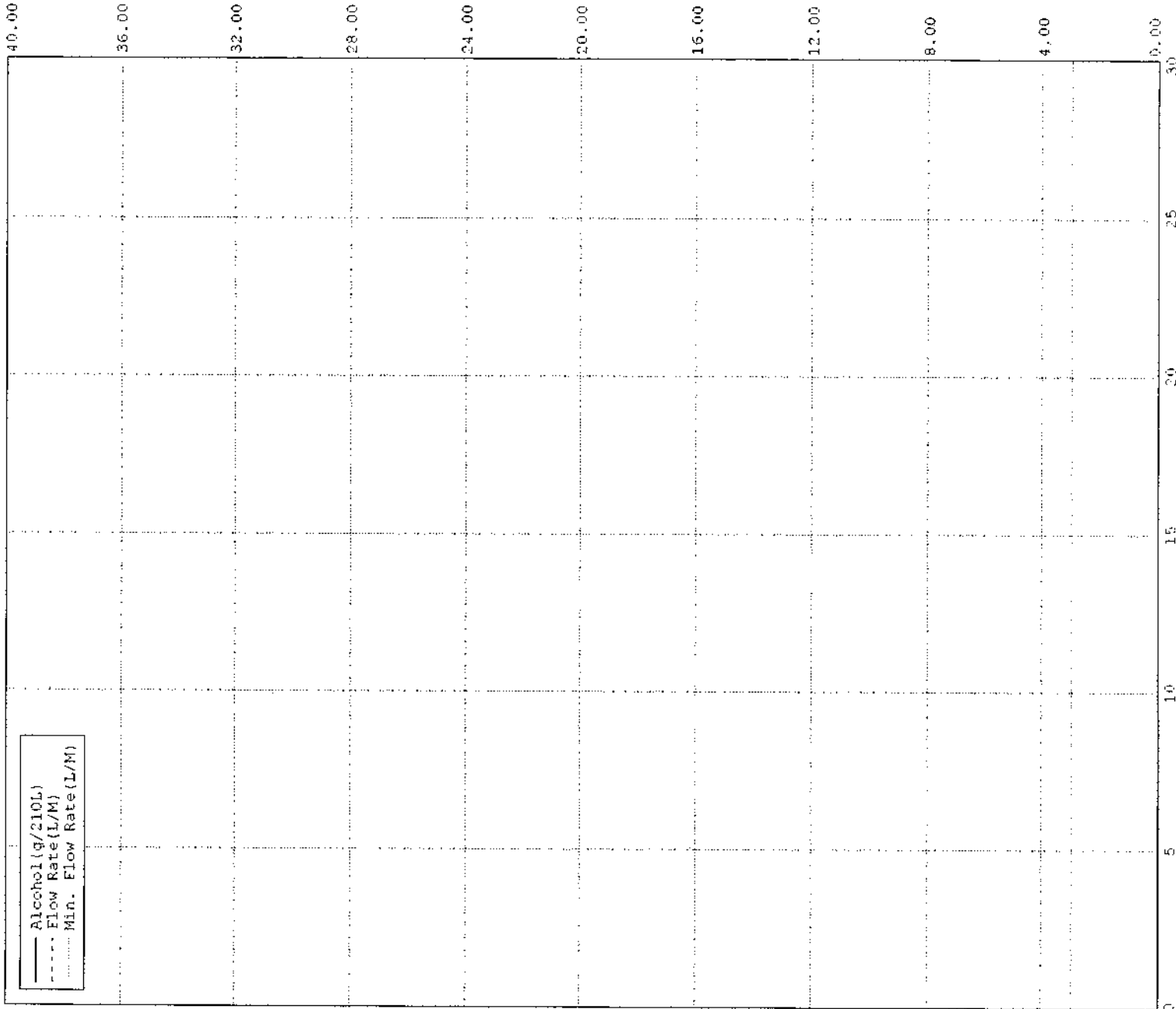
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.36: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 13:49
BLANK TEST 0.000 13:49
INTERNAL STANDARD VERIFIED 13:49
EXTERNAL STANDARD 0.077 13:50
BLANK TEST 0.000 13:51

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 04/28/2020
Time: 14:33:08

SUBJECT NAME:
TEST TEST
LICENSE #: NON DRINKING

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.34: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	14:36
BLANK TEST	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:36
EXTERNAL STANDARD	0.078	14:36
BLANK TEST	0.000	14:37
SUBJECT SAMPLE (Vol=2.23L)	0.000	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.077	14:39
BLANK TEST	0.000	14:39

