

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 100674 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 1.5 L (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf Aargas Lot AG928203 Exp 10/9/21

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

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

iv. 0.100g/210L Mnf Aargas Lot AG924701 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 AGuth 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 DR1176 Date Calibrated 10/7/19 COB 05/07/2020

e. RFI

10/7/19

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: 100674

Date: 04/28/2020
Time: 11:10:17

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 = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.80 V PASSED
(1.04 V - 2.44 V)
Cooler Voltage = 1.81 V PASSED
(1.05 V - 2.45 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 536 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.486 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

Xq = 0.104 0.50% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100674

Date: 04/28/2020
Time: 11:18 AM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 47.3°C

Current Barometer 29.4 in
Volume (Ltr) 1.42

Settings
Lamp: 1.80 V
Bias: 80 V
Cooler: 1.73 V
Chopper: 534 Hz

Voltages (V)
Flow: 1.03 V
Detector: -0.028 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100674

Date: 05/16/2013
Time: 07:20:44

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.978600 0.800 <= CAL < 1.200
b1 = 0.0015 0.0000 <= b1 < 0.0040
b2 = 0.0055 0.0010 <= b2 < 0.0100
b3 = 0.0006 0.0000 <= b3 < 0.0040
Xq = 0.1049 0.0500 <= Xq < 0.2000
a21 = 1.116940 1.050 <= a21 < 1.300
a31 = 0.416219 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100674

Date: 04/28/2020
Time: 11:19:32

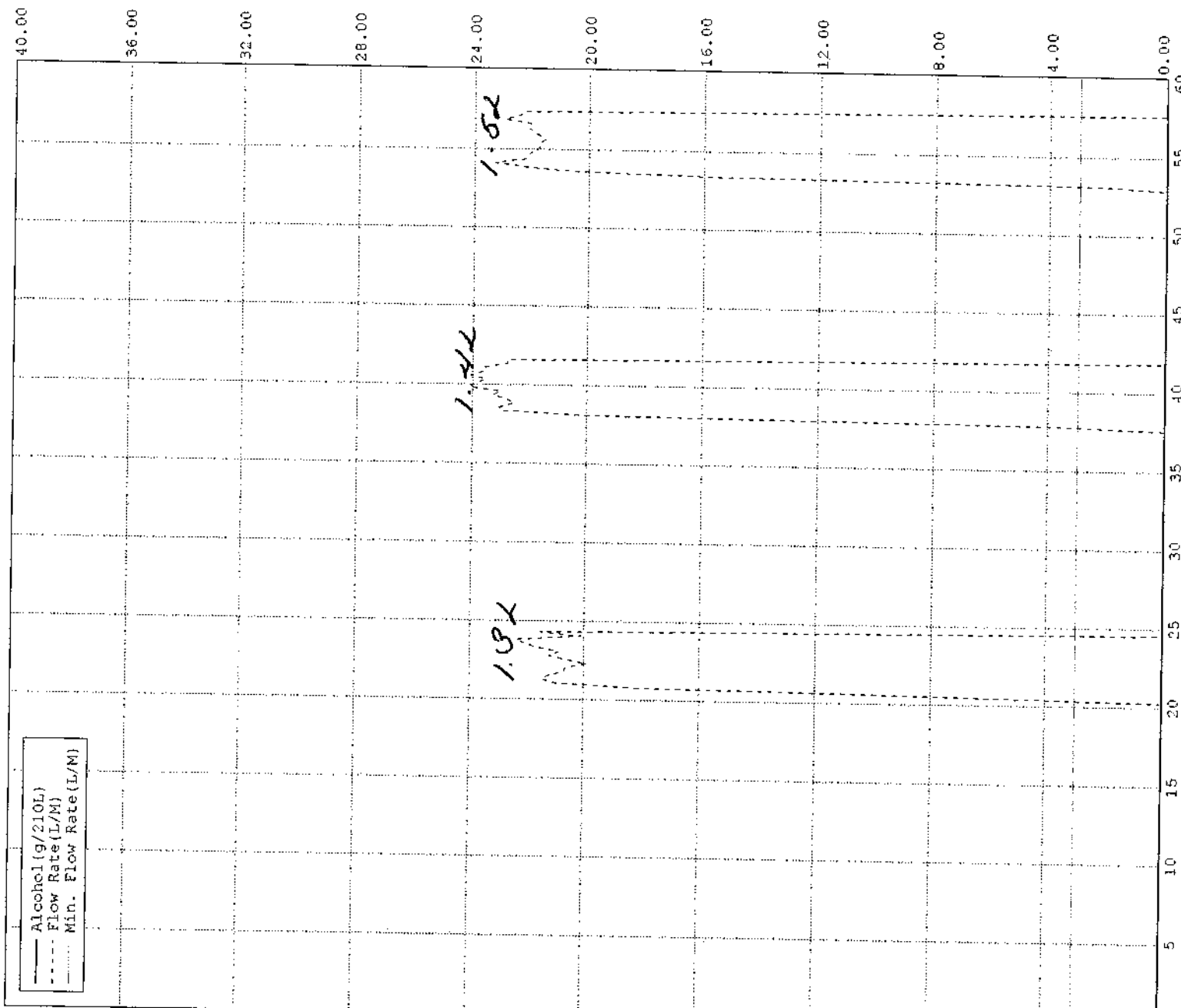
SUBJECT NAME:
TEST TEST
LICENSE #: MIN. VOLUME

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 29.36: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	11:20
BLANK TEST	0.000	11:20
INTERNAL STANDARD	VERIFIED	11:20
EXTERNAL STANDARD	0.077	11:21
BLANK TEST	0.000	11:21
SUBJECT SAMPLE (Vol=1.54L)	0.000	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.077	11:24
BLANK TEST	0.000	11:24



LINEARITY CHECK

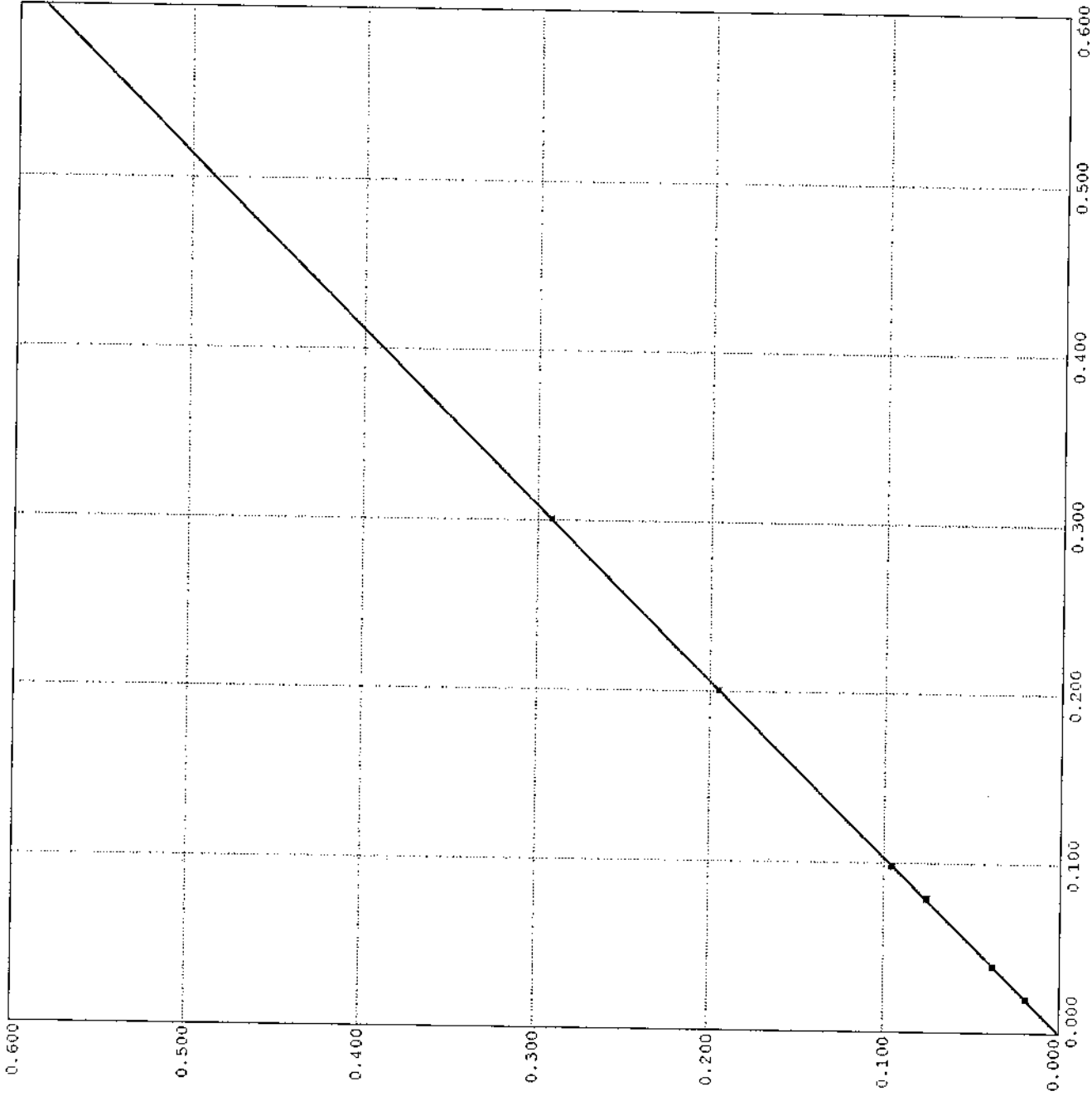
Alaska Department of Public Safety
 DATAMASTER dmt: 100674

Date: 04/28/2020
 Time: 11:28:06

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0392	0.0004
0.079	0.0766	0.0005
0.098	0.0966	0.0005
0.200	0.1960	0.0007
0.300	0.2928	0.0008

SLOPE = 0.974540
 R² = 0.999966



CAS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100674

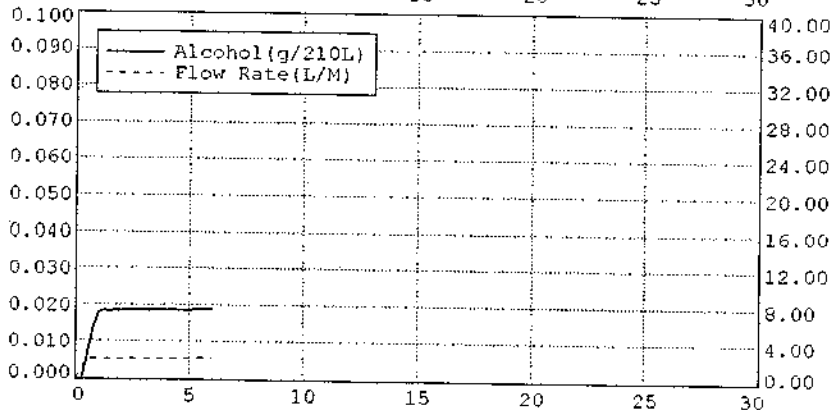
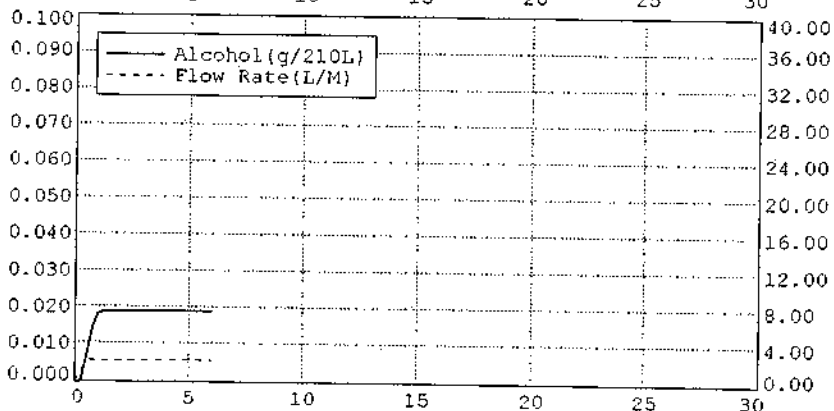
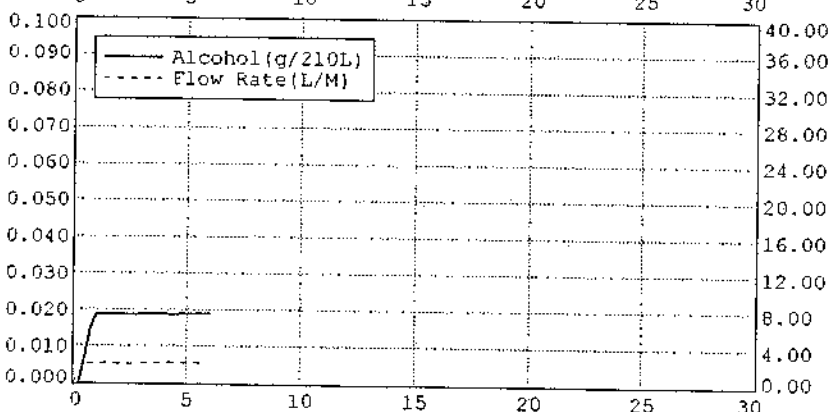
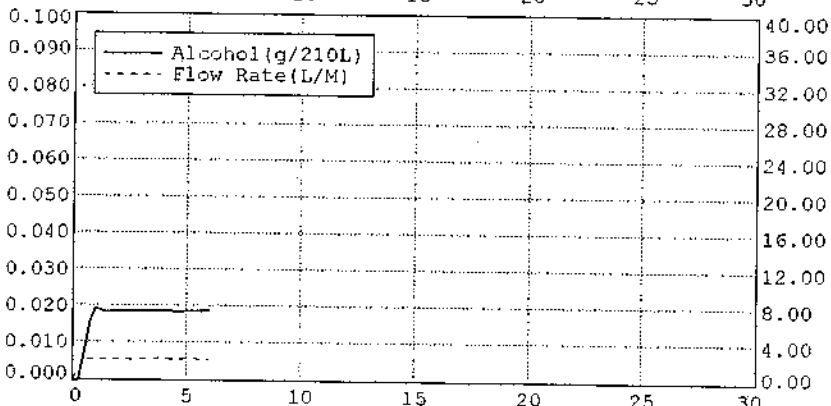
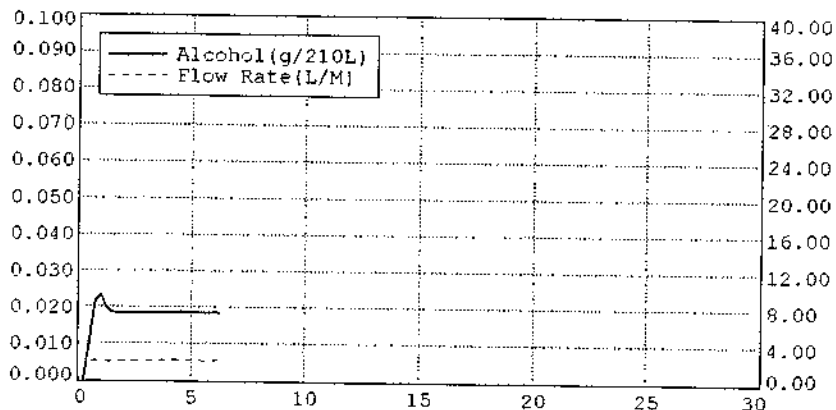
Date: 04/28/2020
 Time: 11:28:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.36: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 1036 psi

BLANK TEST	0.000	11:29
INTERNAL STANDARD	VERIFIED	11:29
EXTERNAL STANDARD	0.020	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.020	11:30
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.020	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.020	11:33
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.020	11:34
BLANK TEST	0.000	11:35

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100674

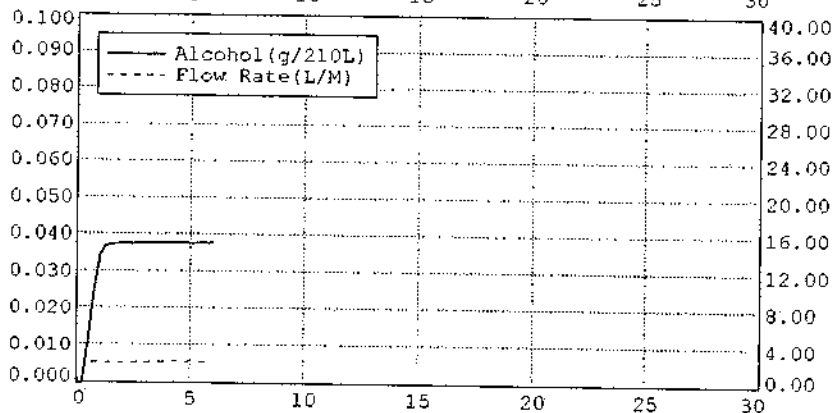
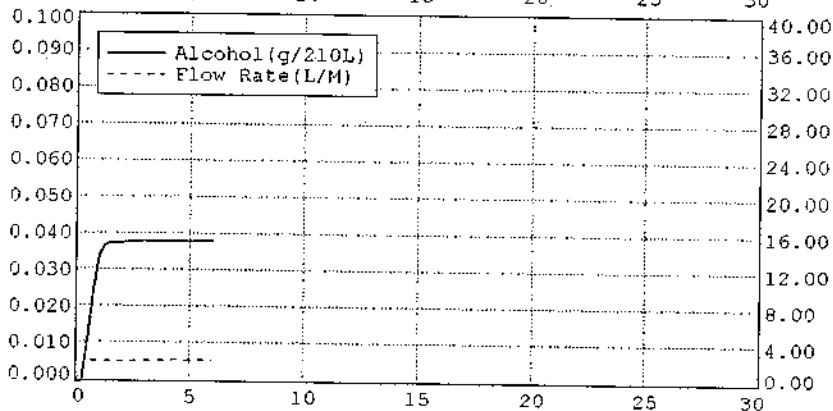
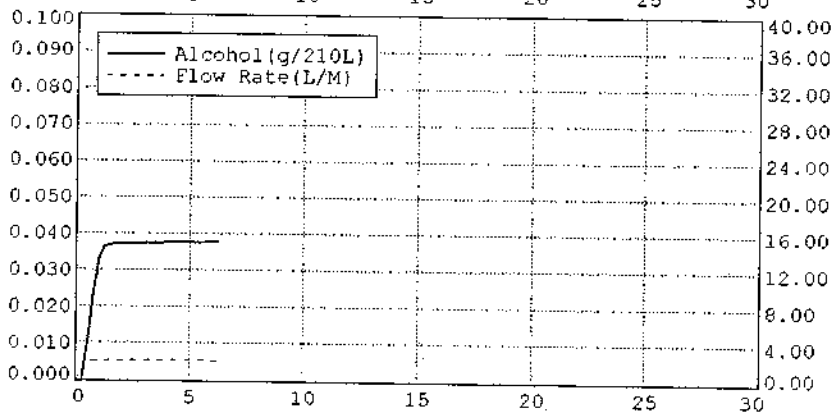
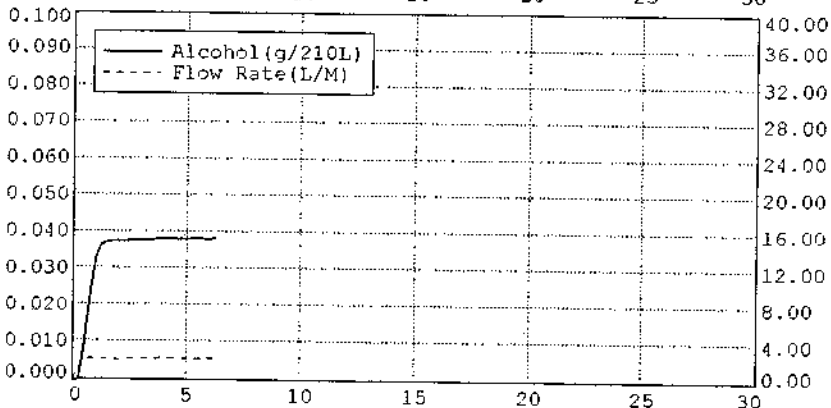
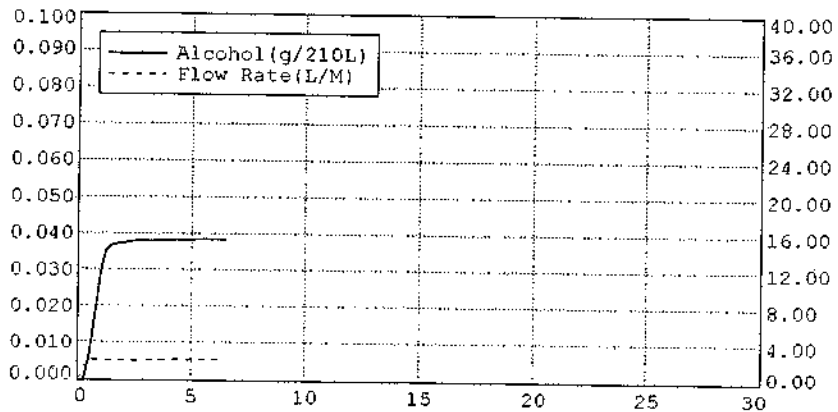
Date: 04/28/2020
 Time: 11:42:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.37: 0.039
 LOT #: AG915607
 EXPIRATION: 06/05/2021
 TANK PRESSURE: 860 psi

BLANK TEST	0.000	11:44
INTERNAL STANDARD	VERIFIED	11:44
EXTERNAL STANDARD	0.040	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.039	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.039	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.039	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.039	11:48
BLANK TEST	0.000	11:49

Average = 0.0392
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

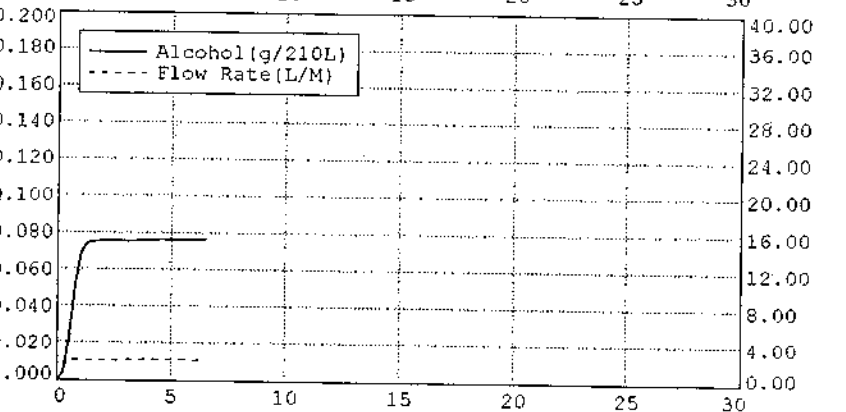
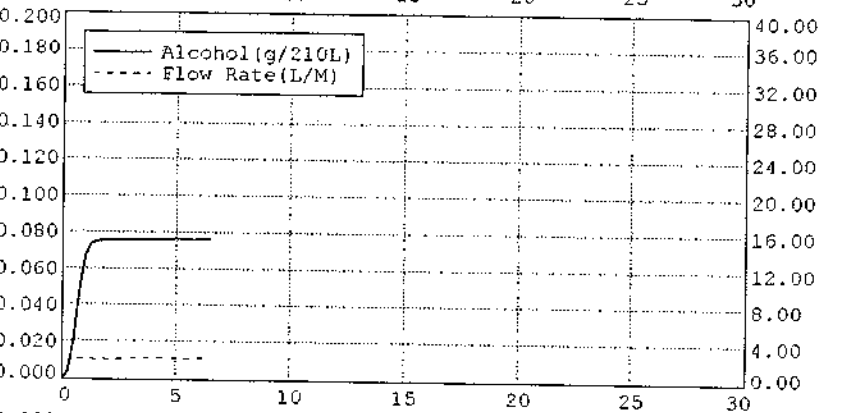
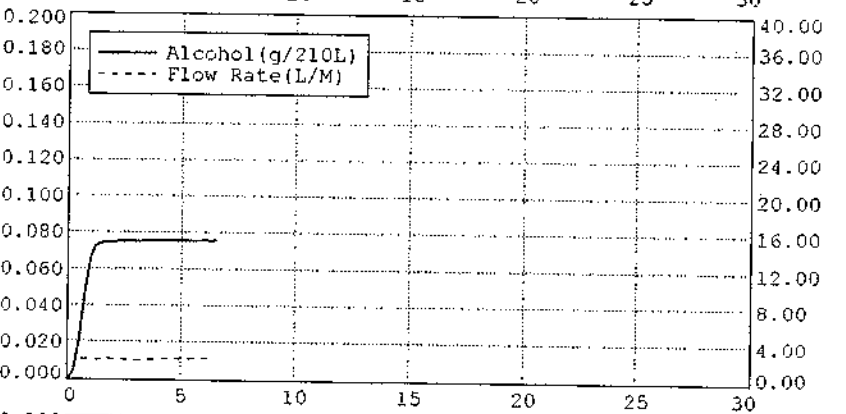
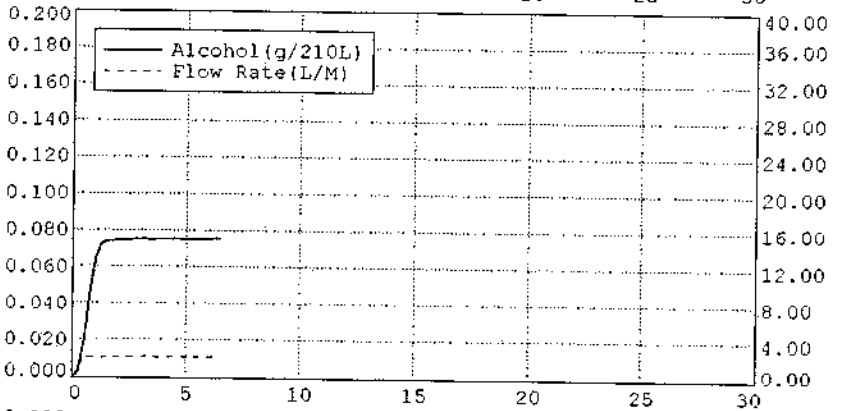
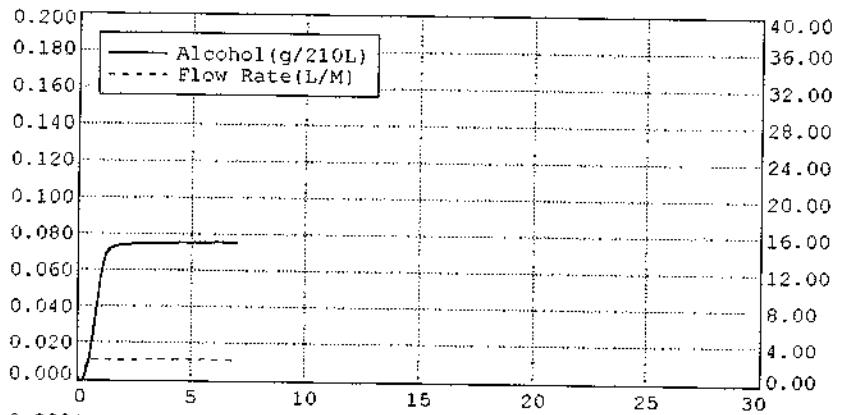
Alaska Department of Public Safety
 DATAMASTER dmt: 100674

Date: 04/28/2020
 Time: 11:51:06

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.37: 0.079
 LOT #: AG826101
 EXPIRATION: 09/18/2020
 TANK PRESSURE: 1046 psi

BLANK TEST	0.000	11:52
INTERNAL STANDARD	VERIFIED	11:52
EXTERNAL STANDARD	0.076	11:52
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.076	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.077	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.077	11:55
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.077	11:57
BLANK TEST	0.000	11:57

Average = 0.0766
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100674

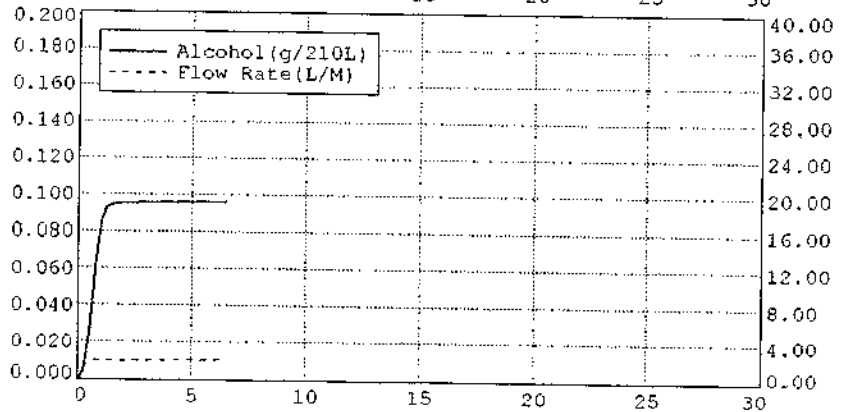
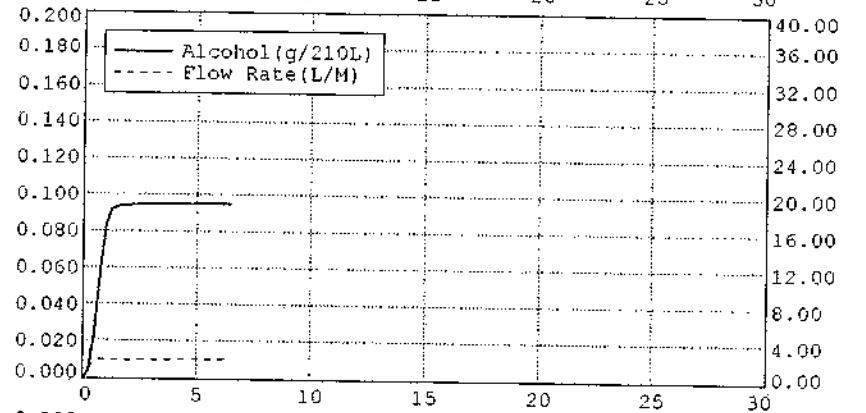
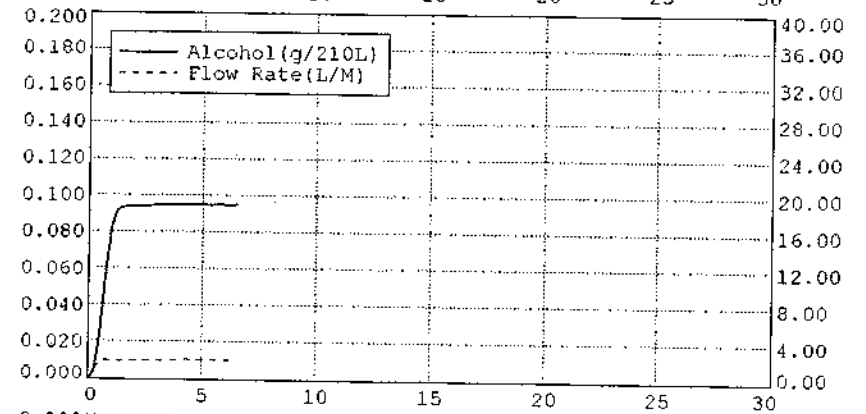
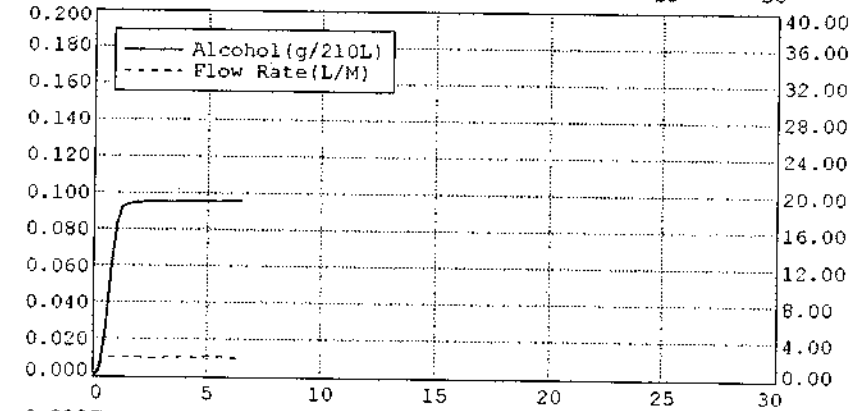
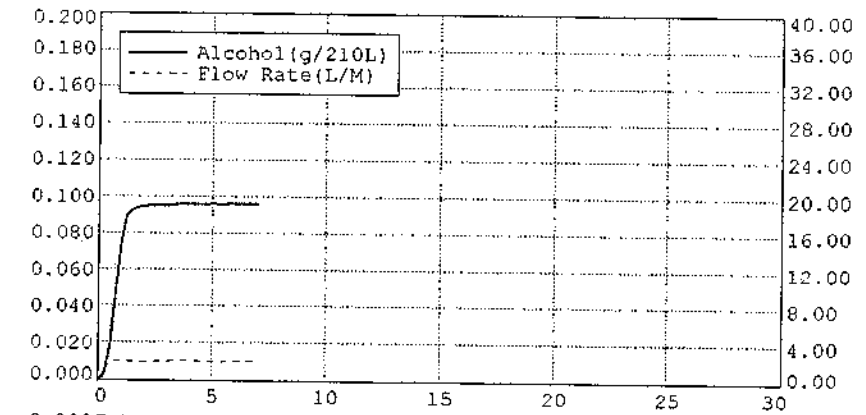
Date: 04/28/2020
 Time: 11:58:16

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.36: 0.098
 LOT #: AG924701
 EXPIRATION: 09/04/2021
 TANK PRESSURE: 655 psi

BLANK TEST	0.000	11:59
INTERNAL STANDARD	VERIFIED	11:59
EXTERNAL STANDARD	0.097	11:59
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.097	12:00
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.096	12:02
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.096	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.097	12:04
BLANK TEST	0.000	12:05

Average = 0.0966
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100674

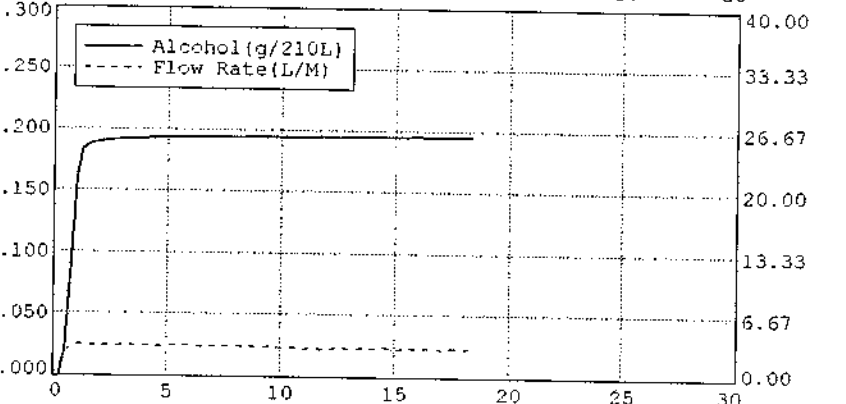
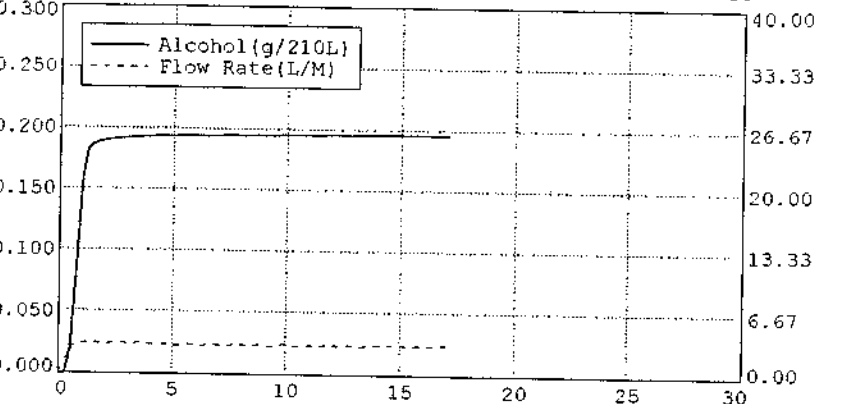
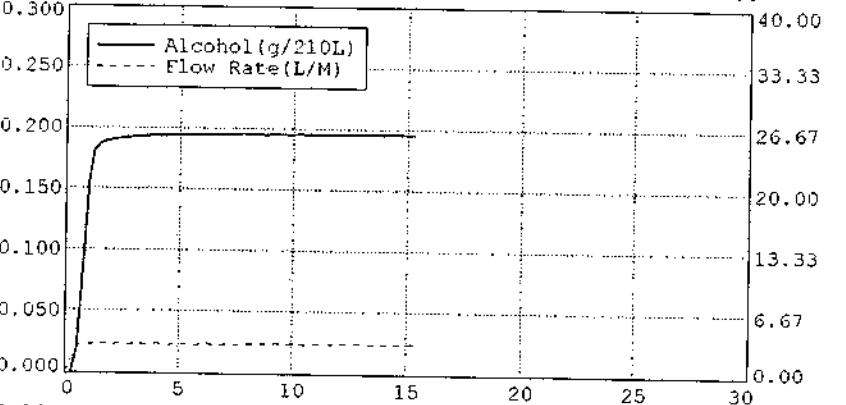
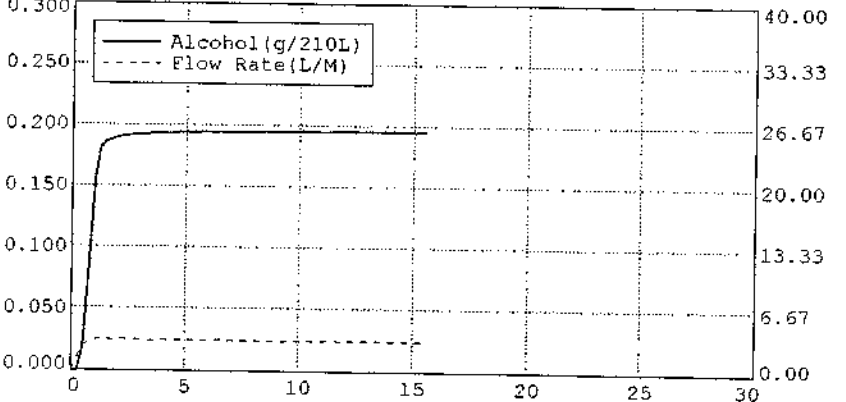
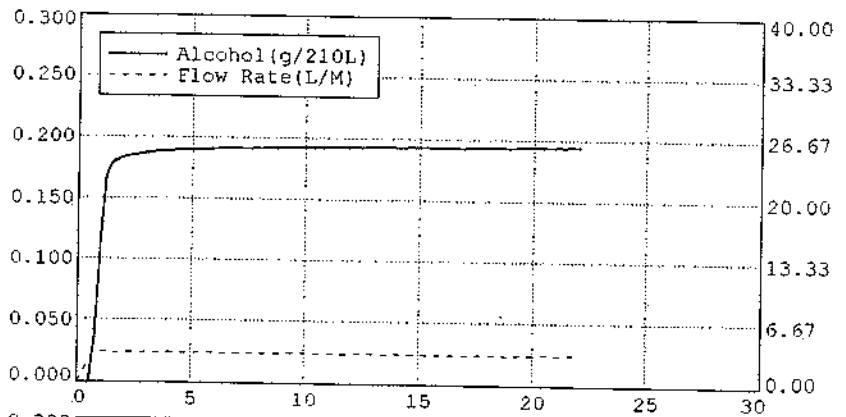
Date: 04/28/2020
 Time: 12:06:32

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:08
INTERNAL STANDARD	VERIFIED	12:08
EXTERNAL STANDARD	0.195	12:09
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.196	12:10
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.196	12:11
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.196	12:12
BLANK TEST	0.000	12:13
EXTERNAL STANDARD	0.197	12:14
BLANK TEST	0.000	12:15

Average = 0.1960
 Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100674

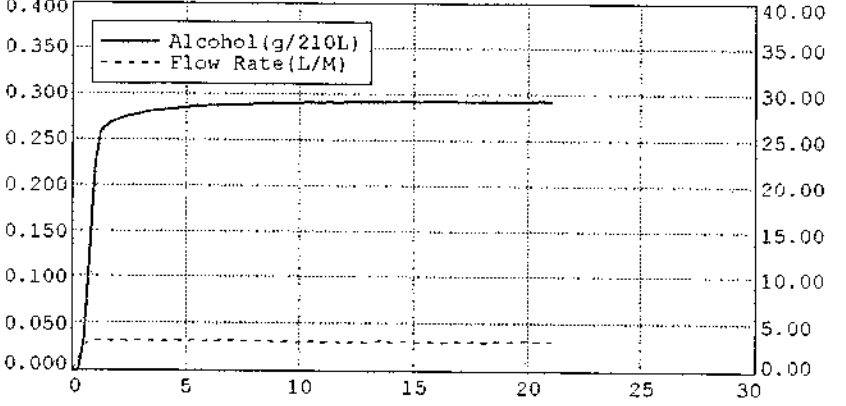
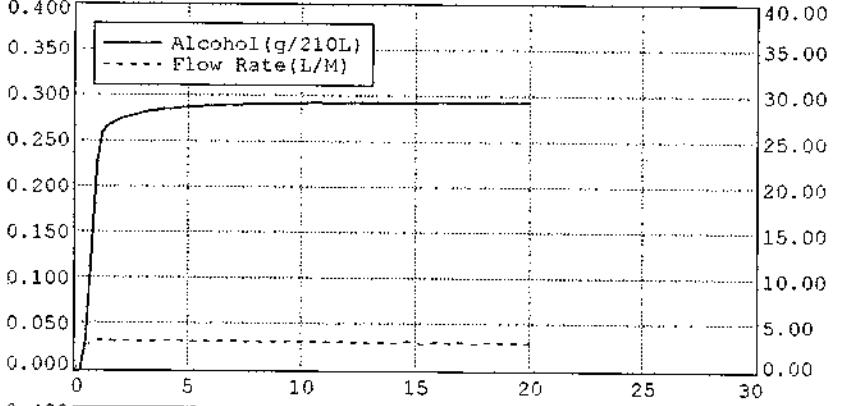
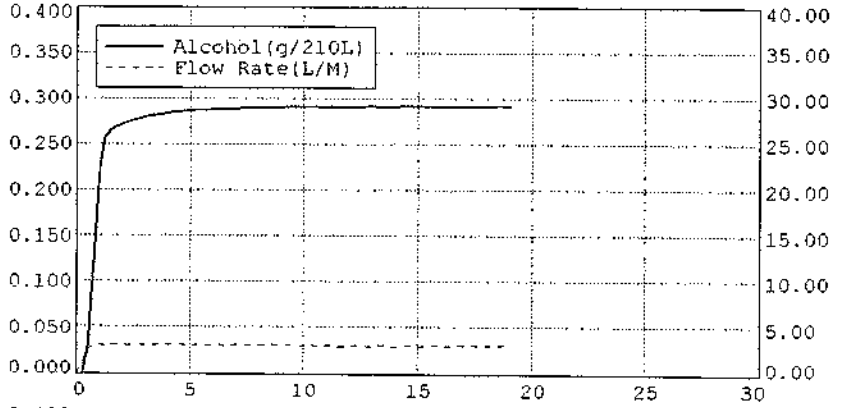
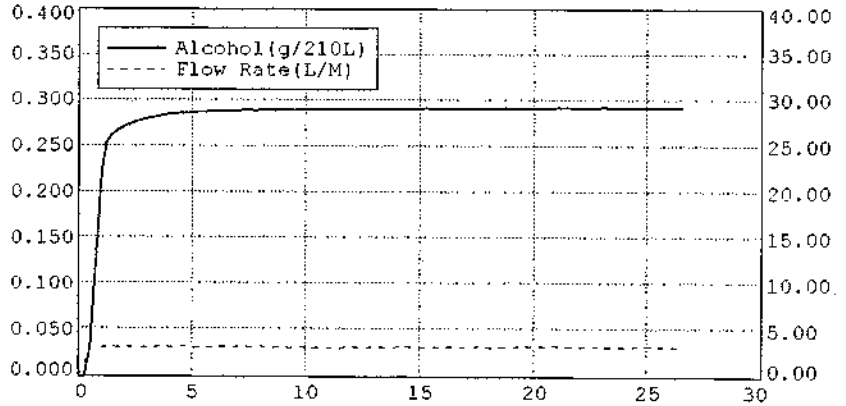
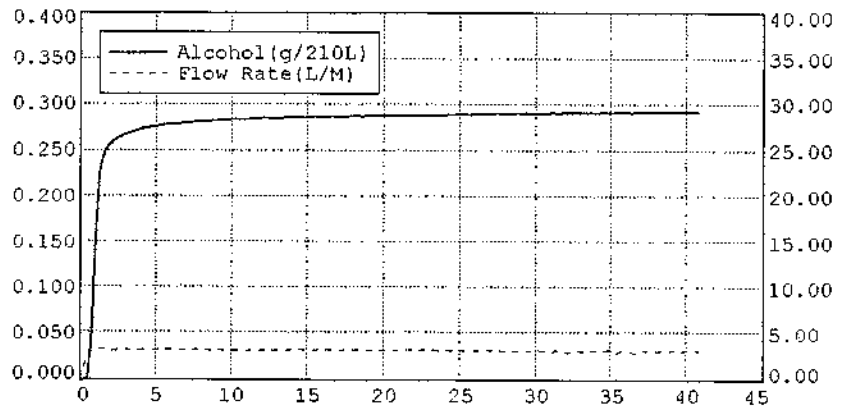
Date: 04/28/2020
 Time: 12:16:24

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:17
INTERNAL STANDARD	VERIFIED	12:17
EXTERNAL STANDARD	0.293	12:18
BLANK TEST	0.000	12:19
EXTERNAL STANDARD	0.292	12:19
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.292	12:21
BLANK TEST	0.000	12:22
EXTERNAL STANDARD	0.293	12:22
BLANK TEST	0.000	12:23
EXTERNAL STANDARD	0.294	12:23
BLANK TEST	0.000	12:24

Average = 0.2928
 Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100674

Date: 04/28/2020
Time: 13:50:54

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAA1

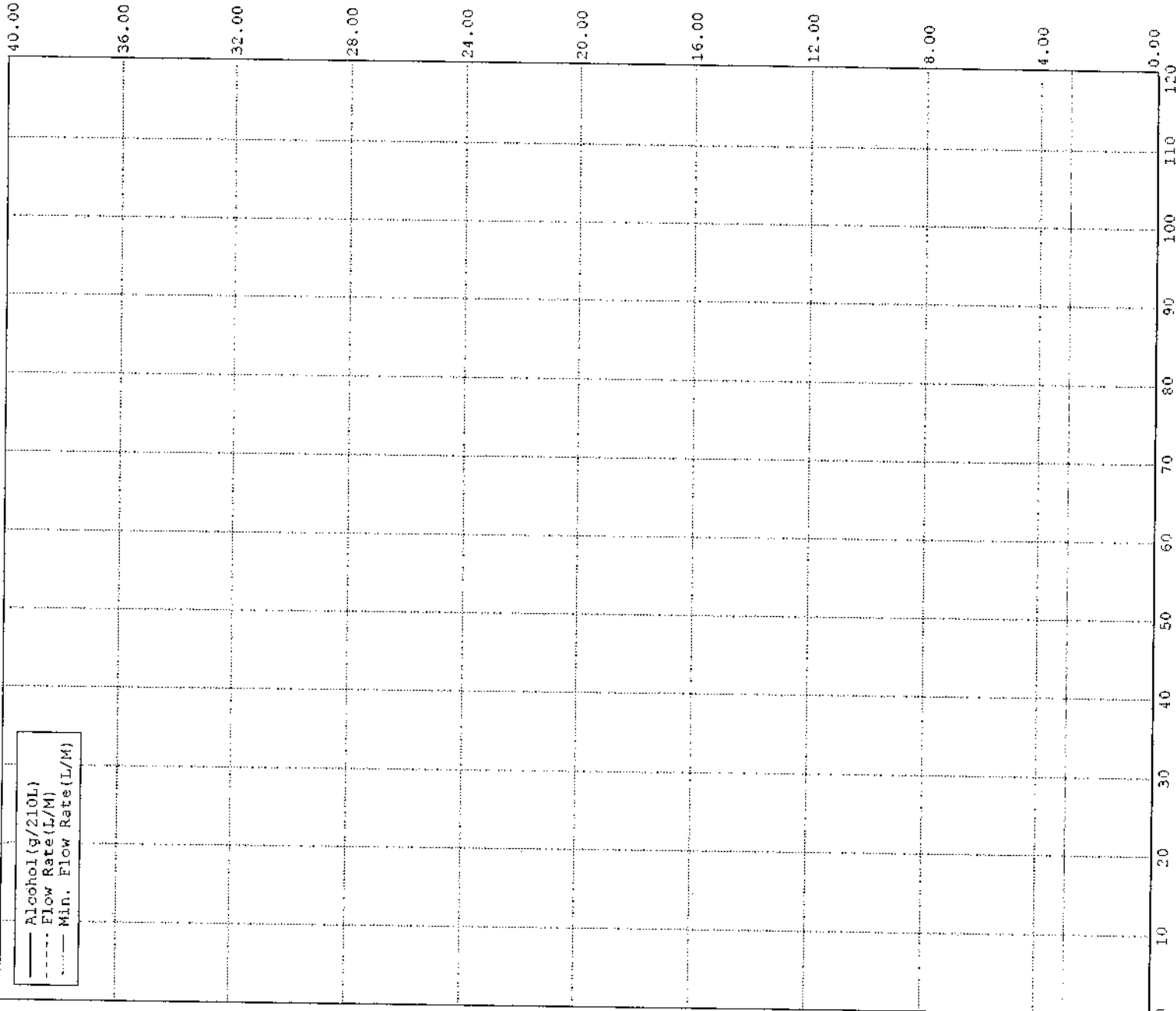
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK PASSED 13:51
BLANK TEST 0.000 13:52
INTERNAL STANDARD VERIFIED 13:52
EXTERNAL STANDARD 0.076 13:52
BLANK TEST 0.000 13:53
SUBJECT SAMELE INCOMPLETE 13:55

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



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100674

Date: 04/28/2020
Time: 14:05:38

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

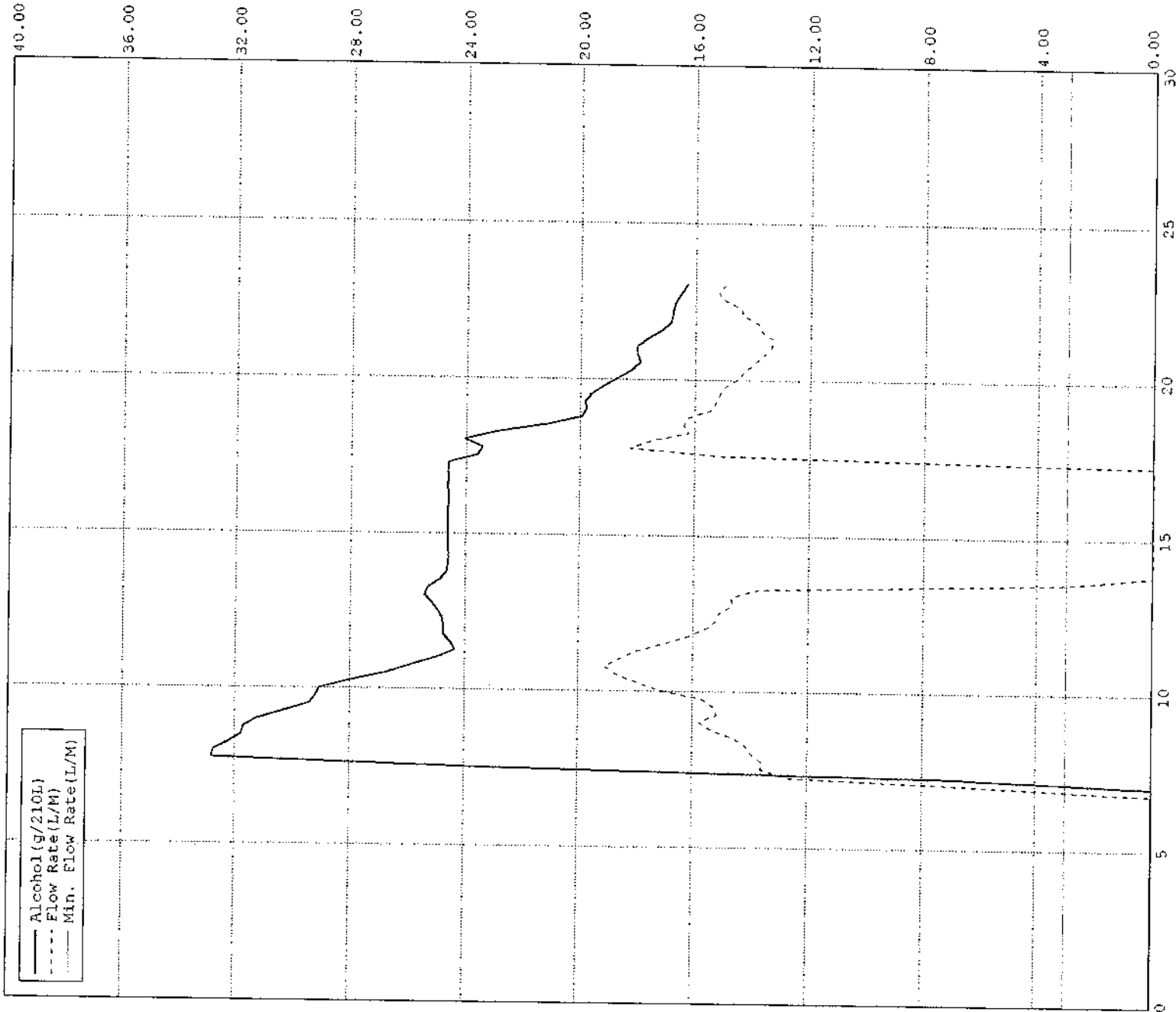
DEPT/AGENCY:
AAA1

CASE/REPORT: 20-123
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK	PASSED	14:12
BLANK TEST	0.000	14:13
INTERNAL STANDARD	VERIFIED	14:13
EXTERNAL STANDARD	0.077	14:13
BLANK TEST	0.000	14:14
SUBJECT SAMPLE	INVALID	14:14



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100674

Date: 04/28/2020
Time: 12:29:54

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

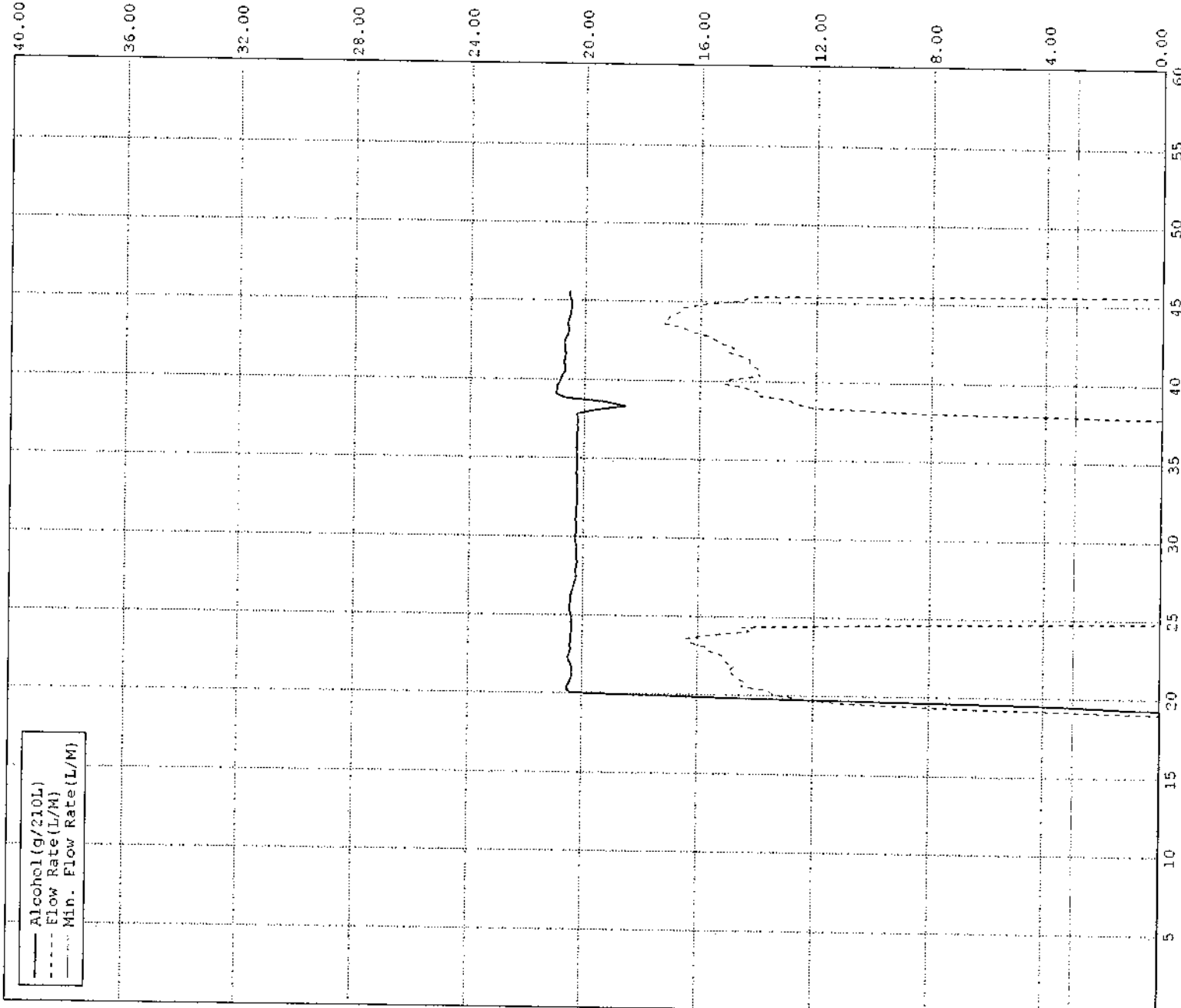
NOMINAL: 0.080
TARGET AT 29.37: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	12:31
BLANK TEST	0.000	12:31
INTERNAL STANDARD	VERIFIED	12:31
Xg = 0.105 (0.17%)		
EXTERNAL STANDARD	0.076	12:31
X{1} = 0.0764 (-0.0003)	(0.0039)	
BLANK TEST	0.000	12:32
SUBJECT SAMPLE	XXX	12:33
X{1} = 0.1019 (-0.0203)	(-0.0004)	

Interference Detected

Filter 2 avg = 0.0008
Filter 3 avg = -0.00030

Filter 3 avg = 0.0032



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100674

Date: 04/28/2020
Time: 12:38:14

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

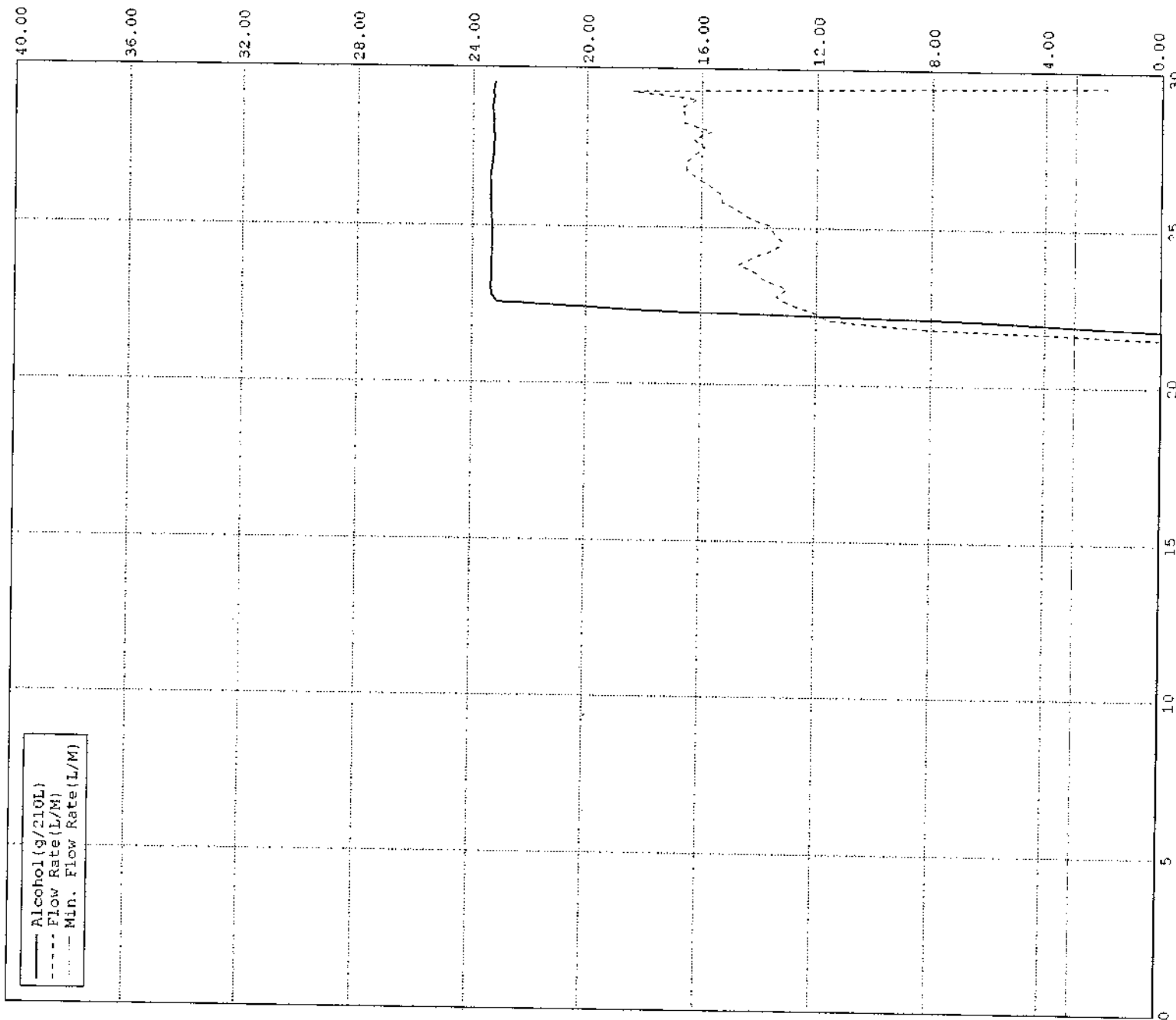
OPERATOR NAME:
COLLEEN S OBRVANT
OPERATOR'S #: 6237

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	12:40
BLANK TEST	0.000	12:40
INTERNAL STANDARD	VERIFIED	12:40
Xq = 0.105 (0.50%)		
EXTERNAL STANDARD	0.077	12:40
X[1] = 0.0771 (-0.0007) (0.0031)		
BLANK TEST	0.000	12:41
SUBJECT SAMPLE	XXX	12:42
X[1] = 0.1150 (-0.0175) (0.0019)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100674

Date: 04/28/2020
Time: 12:45:43

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

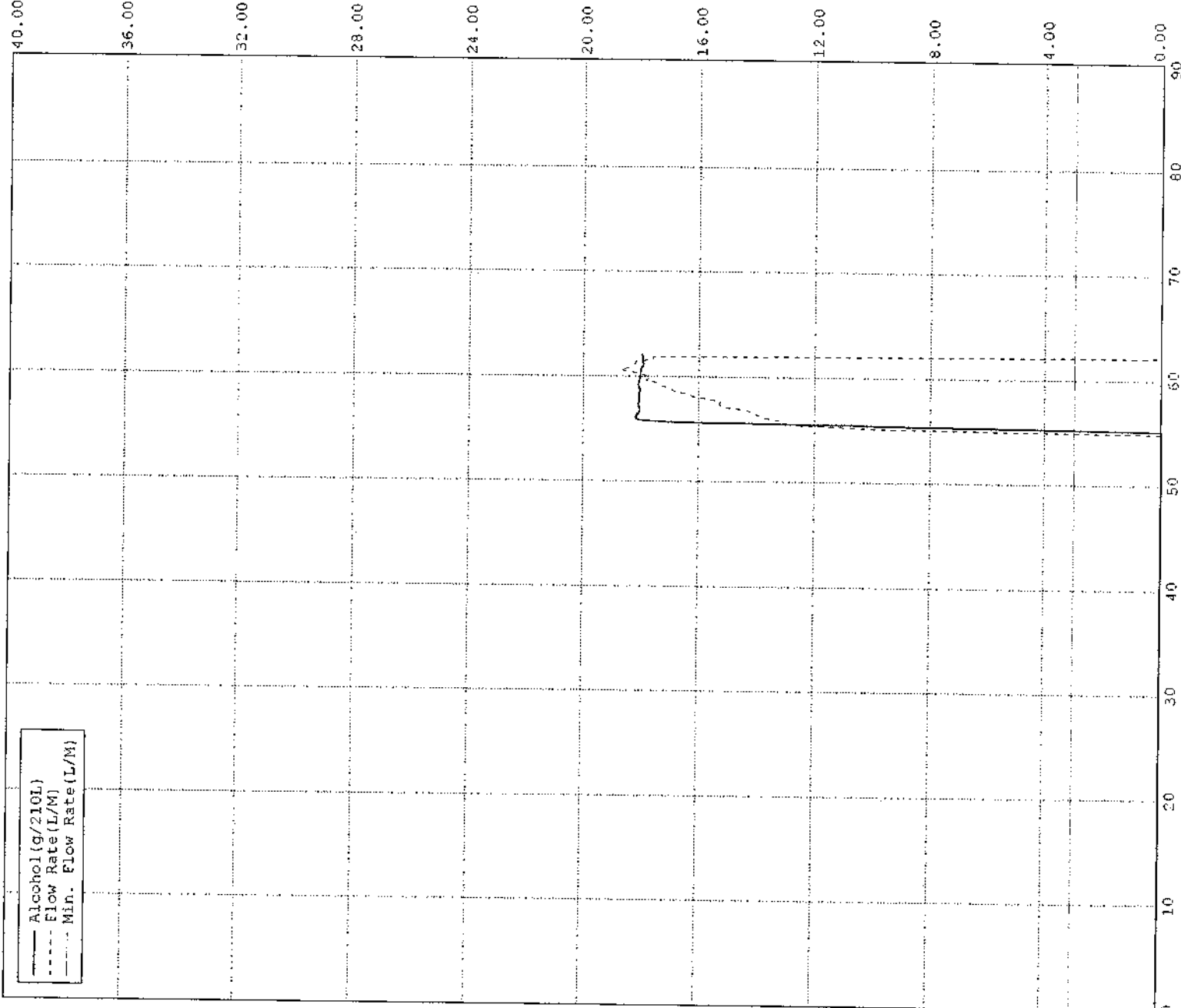
DEPT/AGENCY:
AAA1

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	12:46
BLANK TEST	0.000	12:46
INTERNAL STANDARD	VERIFIED	12:46
$Xq = 0.105 (0.17\%)$		
EXTERNAL STANDARD	0.077	12:47
$X[1] = 0.0767 (-0.0007) (0.0036)$		
BLANK TEST	0.000	12:48
SUBJECT SAMPLE (Vol=1.87L)	0.089	12:49
$X[1] = 0.0891 (0.0003) (0.0011)$		
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.076	12:50
$X[1] = 0.0763 (-0.0013) (0.0023)$		
BLANK TEST	0.000	12:51



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100674

Date: 04/28/2020
Time: 12:53:48

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

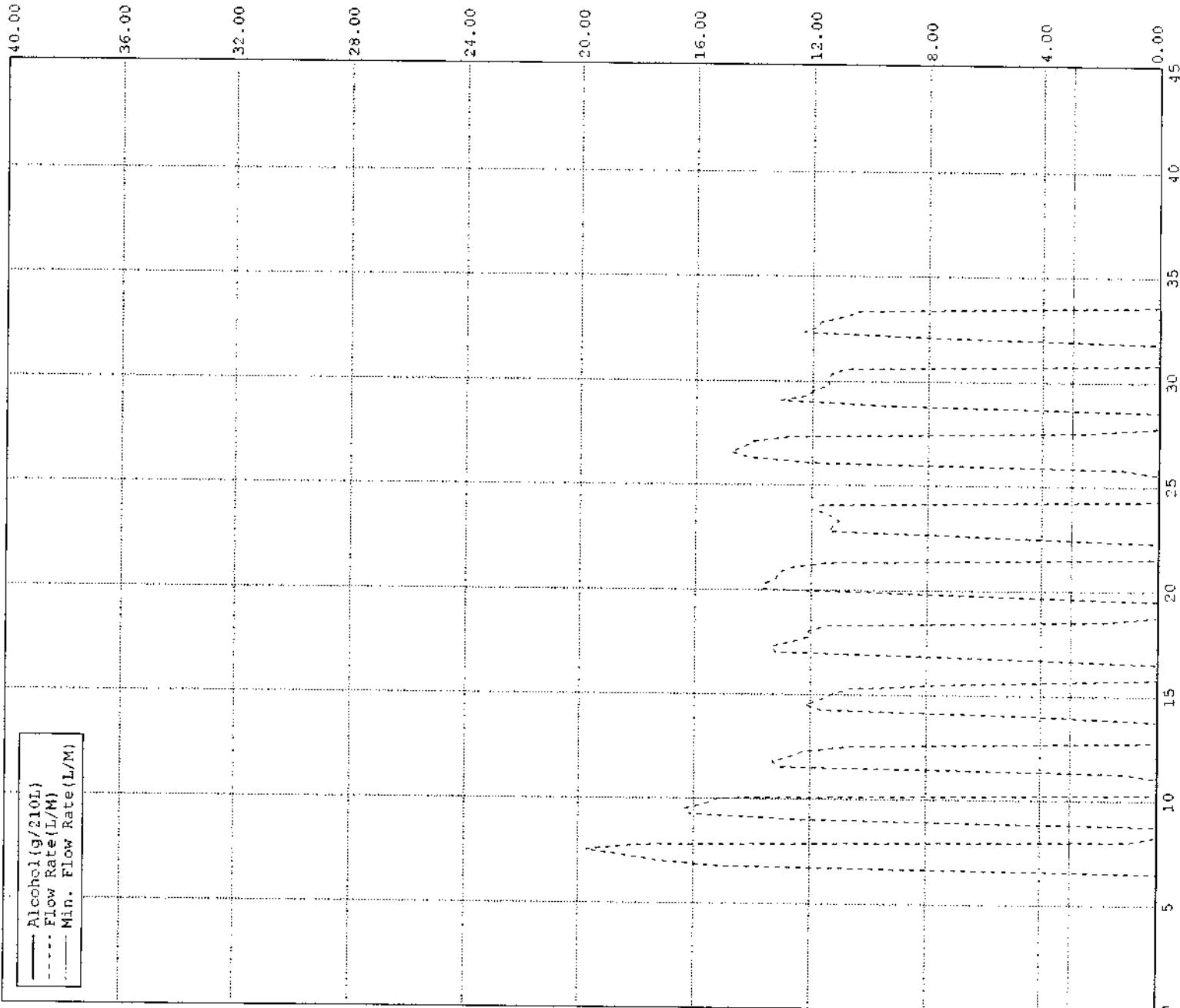
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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 12:56
BLANK TEST 0.000 12:56
INTERNAL STANDARD VERIFIED 12:56
EXTERNAL STANDARD 0.077 12:56
BLANK TEST 0.000 12:57
SUBJECT SAMPLE XXX 12:58

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100574

Date: 04/28/2020
Time: 13:57:43

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAA1

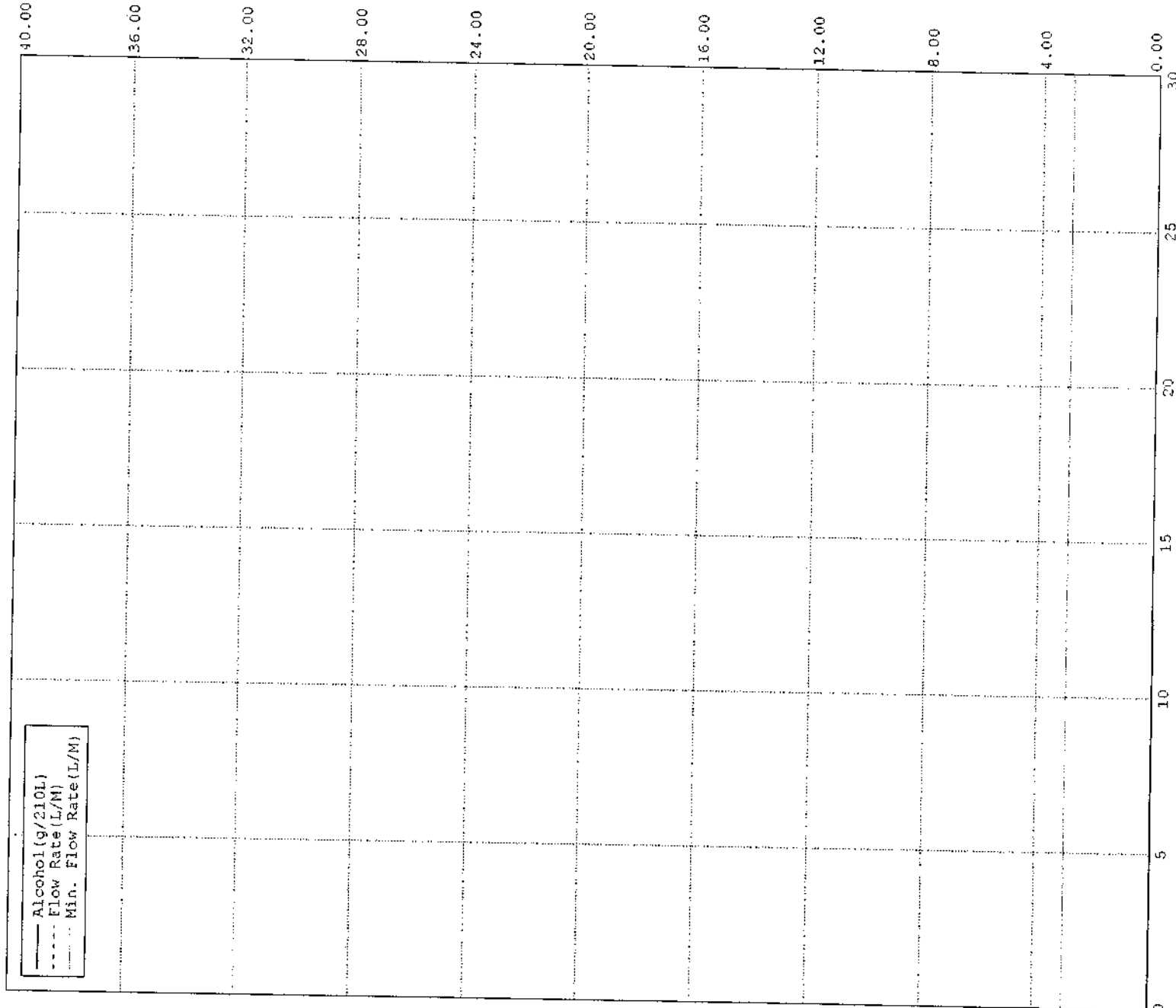
CASE/REPORT: 20-123
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK
BLANK TEST PASSED 14:00
INTERNAL STANDARD 0.000 14:00
EXTERNAL STANDARD 0.077 14:01
BLANK TEST 0.000 14:01

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100674

Date: 04/28/2020
Time: 14:38:03

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 29.36: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	14:44
BLANK TEST	0.000	14:44
INTERNAL STANDARD	VERIFIED	14:44
EXTERNAL STANDARD	0.078	14:44
BLANK TEST	0.000	14:45
SUBJECT SAMPLE (Vol=1.89L)	0.000	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.077	14:47
BLANK TEST	0.000	14:47

