

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 100696 Analyst C. O'Bryen Start Date 2/26/2020

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 AG 928203 Exp 10/19/21
AG 805807 ^{CO} 10/7/20 ^{CO}

ii. 0.040g/210L Mnf Argas Lot AG 928203 Exp 6/5/21 Lot AG915607

iii. 0.080g/210L Mnf Argas Lot AG 826101 Exp 9/18/20

iv. 0.100g/210L Mnf Argas Lot AG 805903 Exp 2/28/20

v. 0.200g/210L Mnf Guth Lot 19040 Exp 1/29/21

1. Simulator S/N DR4162 Date Calibrated 10/4/19 ^{CO} 10/7/19

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

1. Simulator S/N DR 6267 Date Calibrated 10/8/19

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

d. Exceeded attempts

i. Acetone - Mnf Guth Lot 18370 Level 0.100 Exp 12/15/20

1. Simulator S/N SD1199 Date Calibrated 3/6/19

ii. Isopropanol - Mnf Guth Lot 18370 Level 0.100 Exp 12/15/20

1. Simulator S/N DR4161 Date Calibrated 3/7/19

iii. Negative Control - Mnf Guth Lot 18370 Level 0.100 Exp 12/15/20

1. Simulator S/N SD1802 Date Calibrated 3/5/19

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 2/27/20

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 02/26/2020
Time: 10:07:24

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 = 45.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.74 V PASSED
(1.04 V - 2.44 V)
Cooler Voltage = 1.74 V PASSED
(1.06 V - 2.48 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 530 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.578 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 = 0.104 0.59% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100696

Date: 02/26/2020

Time: 10:25 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 45.1°C

Current Barometer 29.3 in

Volume (ltr) 1.51

Settings

Lamp: 1.71 V

Bias: 80 V

Cooler: 1.72 V

Chopper: 529 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.111 V *

The detector voltage requirement listed on the certification form (reference voltage checks v.) is listed as (-0.100V to 0.100V). This range was selected to ensure the instrument voltage was near 0.000. In this instance the voltage drifted slightly above the upper limit prior to printing. This has no anticipated effect on the instrument function.

BMB 2/27/20

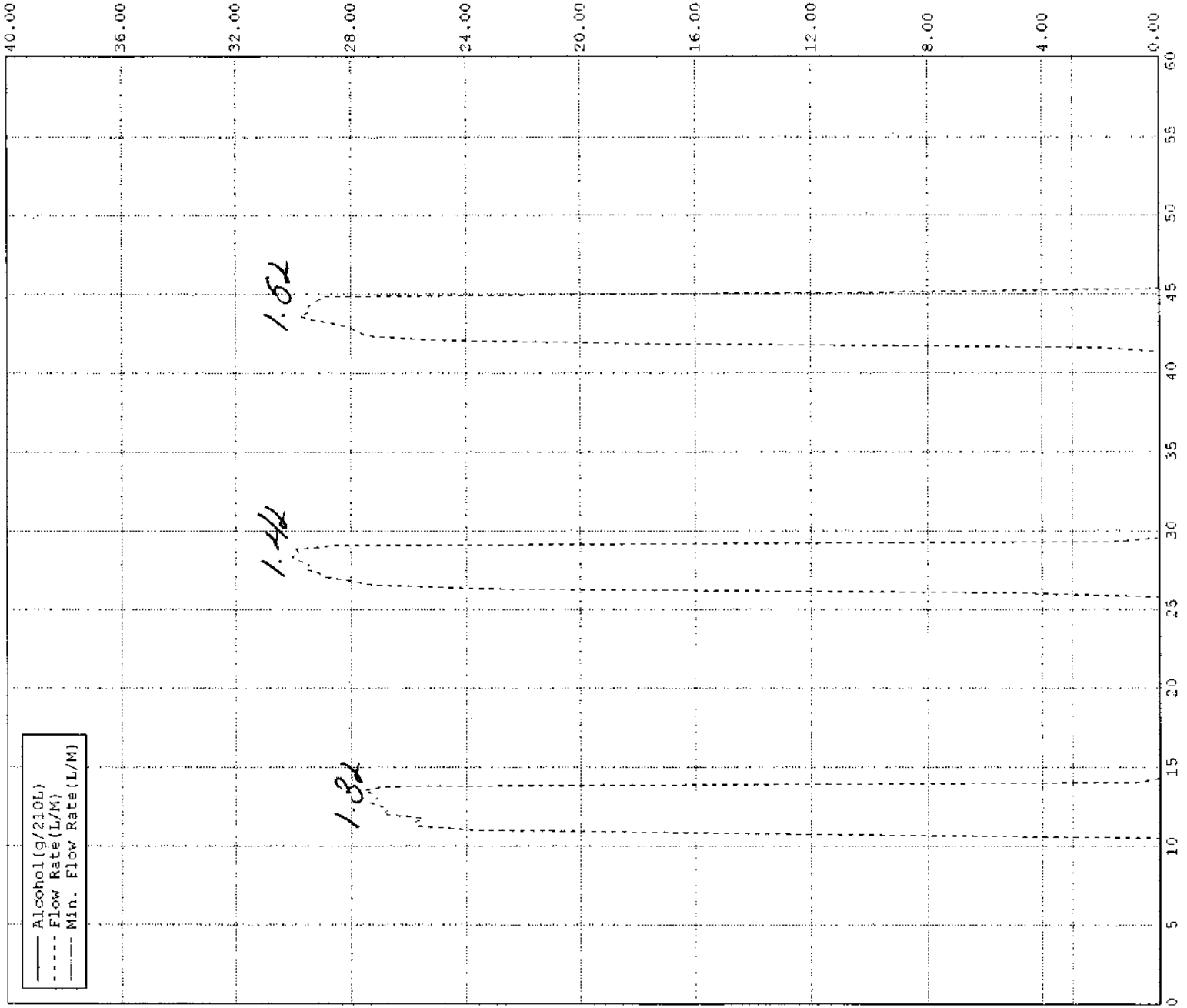
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 02/11/2016
Time: 09:57:19

OPERATOR NAME:
NPAS TECH
CERTIFICATE #: G12921, 15200, 34.0C

Ca = 0.1010
CAL = 1.002703 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0062 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xq = 0.1037 0.0500 <= Xq < 0.2000
a21 = 1.171655 1.050 <= a21 < 1.300
a31 = 0.482404 0.300 <= a31 < 0.800



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100696

 Date: 02/26/2020
 Time: 10:29:34

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

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 29.26: 0.078
 LOT #: AG826101
 EXPIRATION: 09/18/2020

TEST TYPE	TIME	ALCOHOL (g/210L)	FLOW RATE (L/M)	MIN. FLOW RATE (L/M)
DIAGNOSTIC CHECK	10:30	PASSED		
BLANK TEST	10:30	0.000		
INTERNAL STANDARD	10:30	VERIFIED		
EXTERNAL STANDARD	10:31	0.078		
BLANK TEST	10:32	0.000		
SUBJECT SAMPLE (Vol=1.54L)	10:32	0.000		
BLANK TEST	10:33	0.000		
EXTERNAL STANDARD	10:33	0.078		
BLANK TEST	10:34	0.000		

LINEARITY CHECK

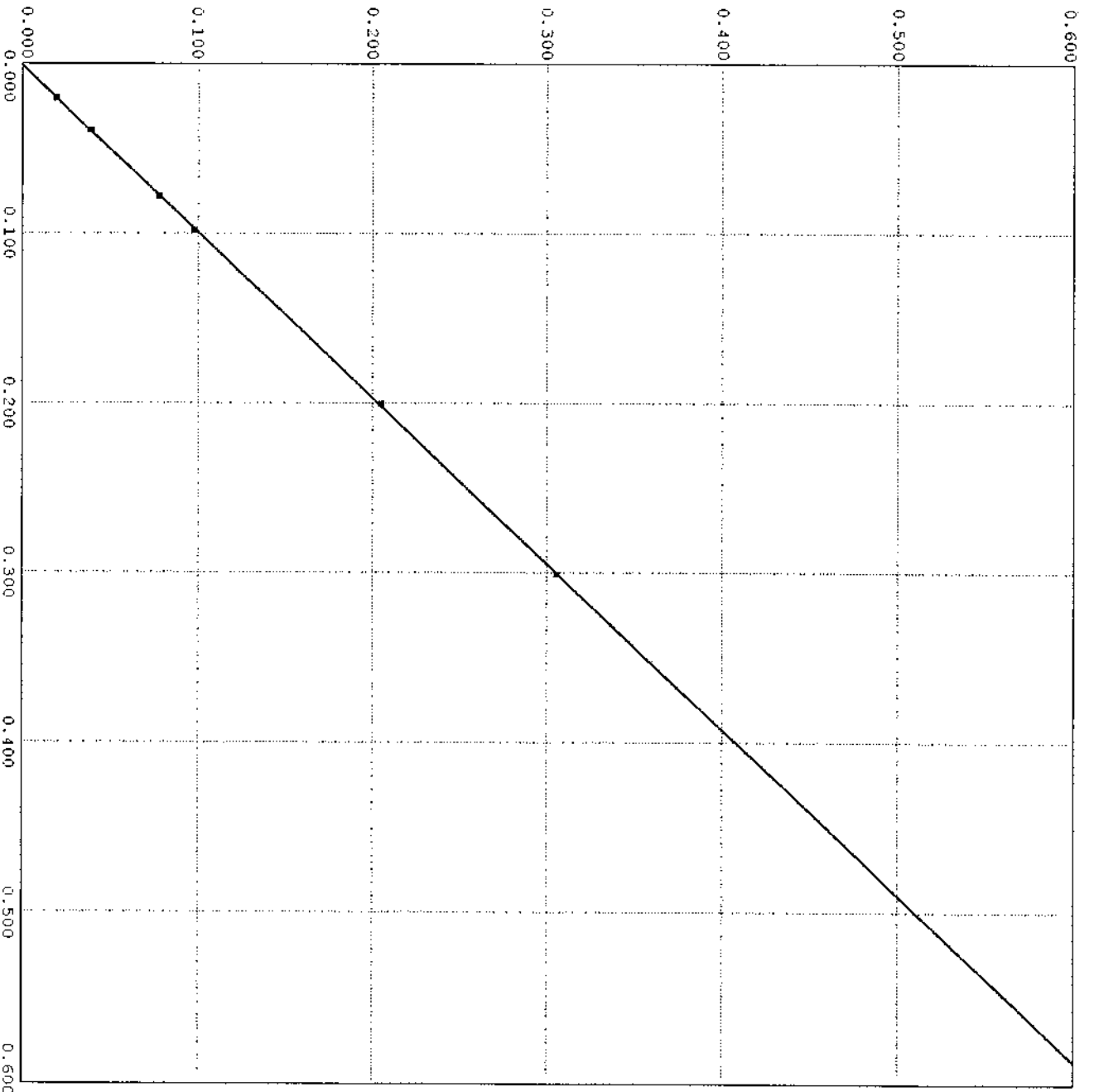
Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 02/26/2020
Time: 10:49:28

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0400	0.0000
0.078	0.0790	0.0000
0.098	0.0988	0.0004
0.200	0.2056	0.0005
0.300	0.3064	0.0005

SLOPE = 1.024707
R² = 0.999945



CB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100696

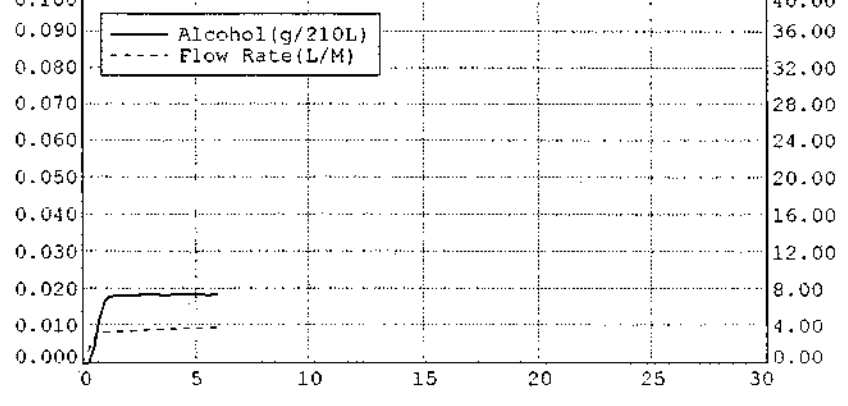
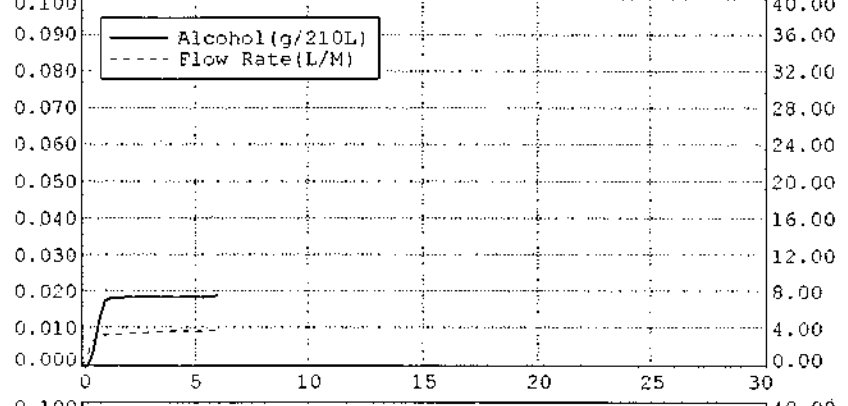
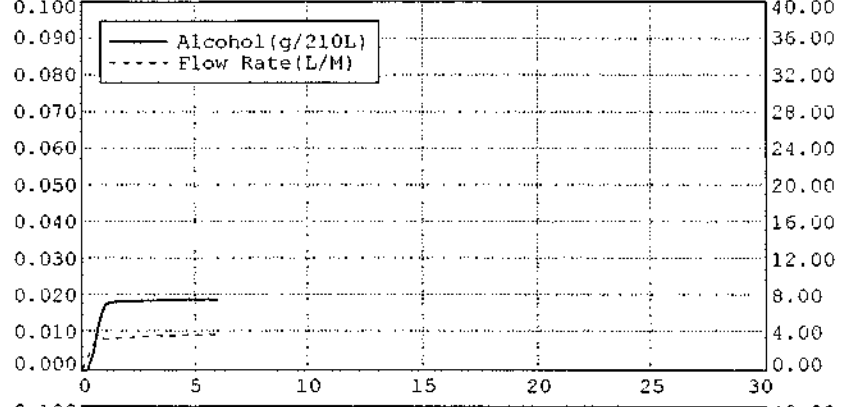
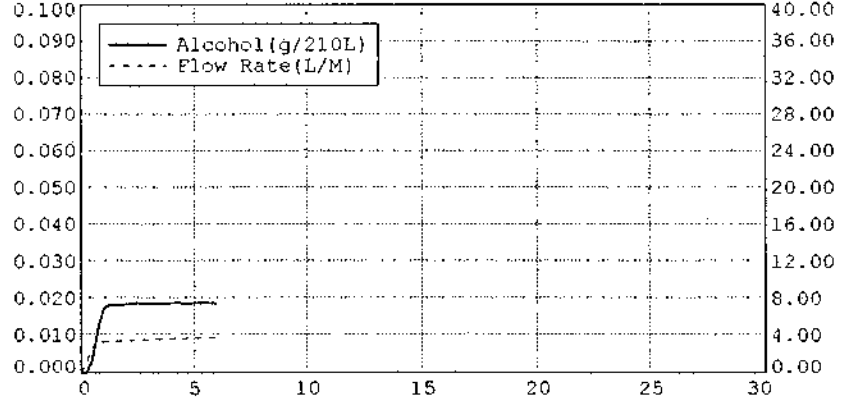
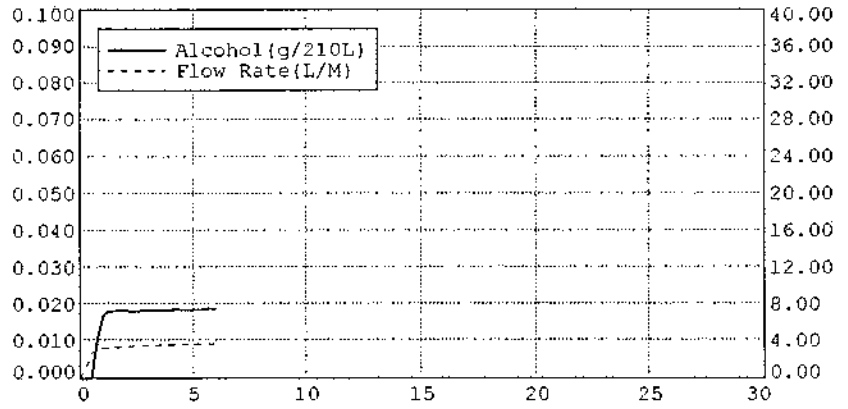
Date: 02/26/2020
Time: 11:06:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.26: 0.020
LOT #: AG928203
EXPIRATION: 10/09/2021
TANK PRESSURE: 992 psi

BLANK TEST	0.000	11:07
INTERNAL STANDARD	VERIFIED	11:08
EXTERNAL STANDARD	0.020	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.020	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.020	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.020	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.020	11:12
BLANK TEST	0.000	11:13

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100696

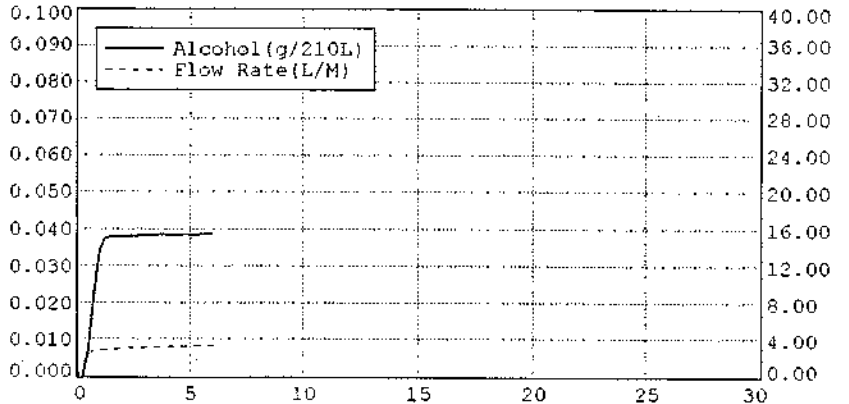
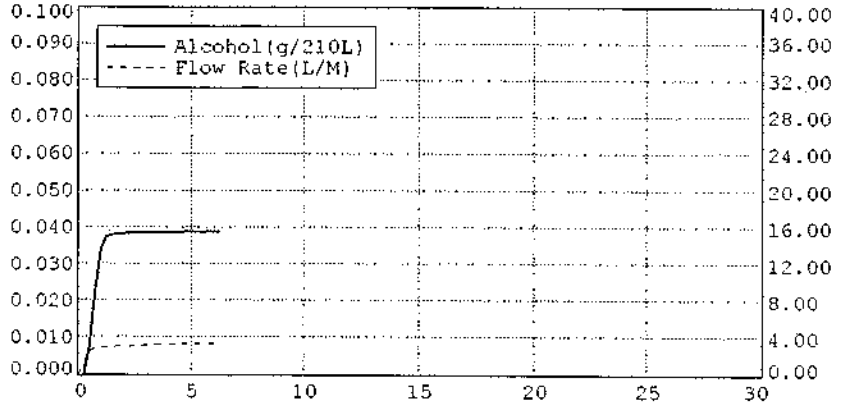
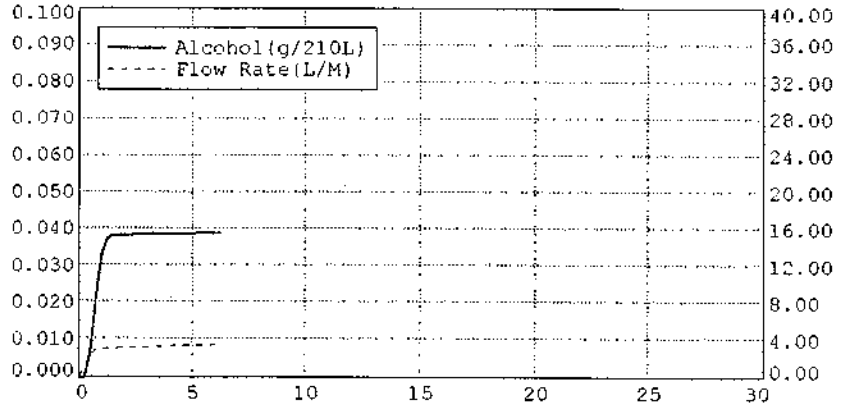
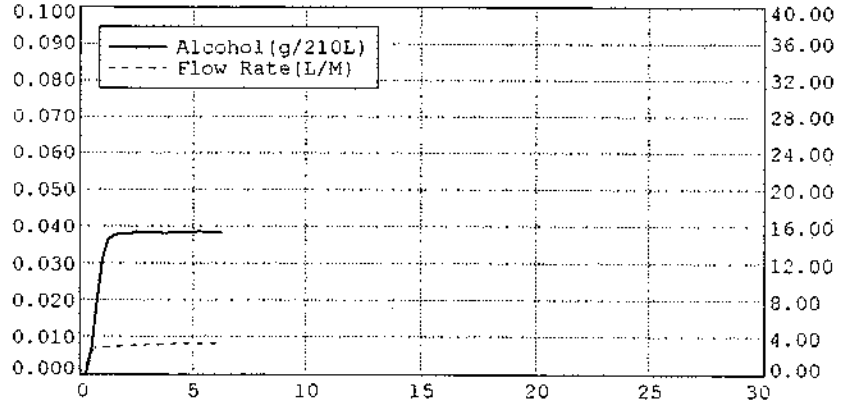
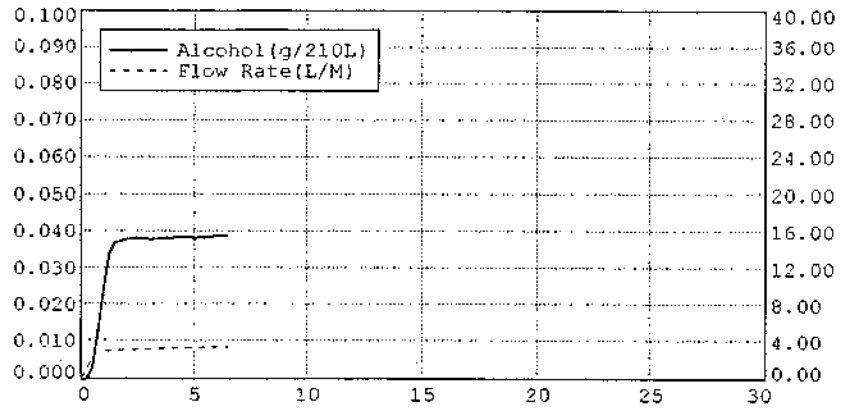
Date: 02/26/2020
 Time: 11:14:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.26: 0.039
 LOT #: AG915607
 EXPIRATION: 06/05/2021
 TANK PRESSURE: 820 psi

BLANK TEST	0.000	11:15
INTERNAL STANDARD	VERIFIED	11:15
EXTERNAL STANDARD	0.040	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.040	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.040	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.040	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.040	11:20
BLANK TEST	0.000	11:21

Average = 0.0400
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100696

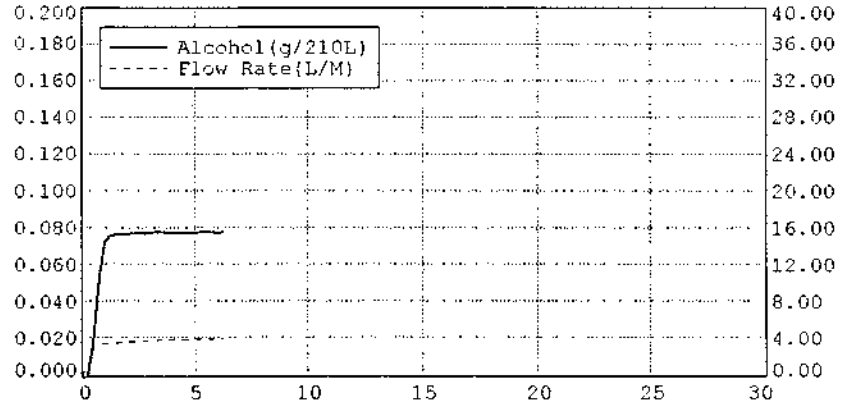
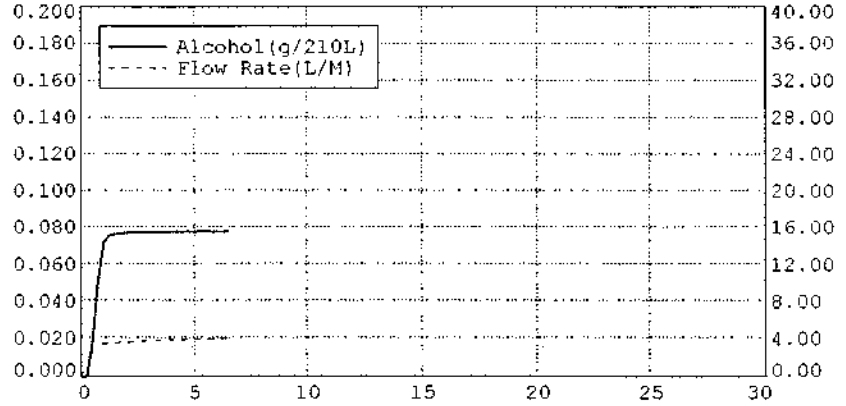
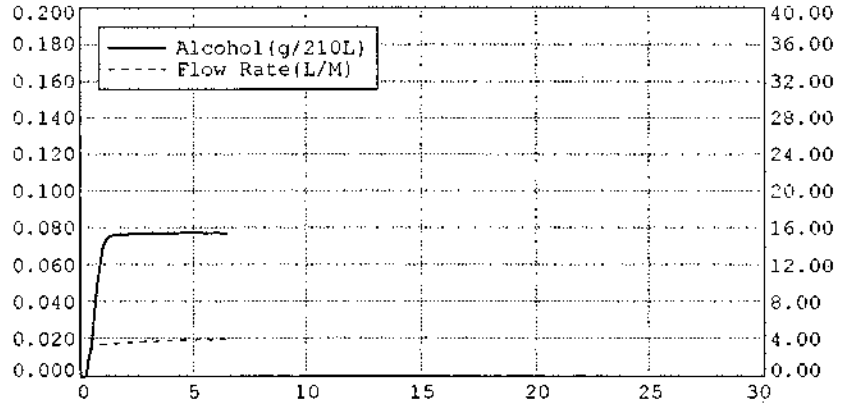
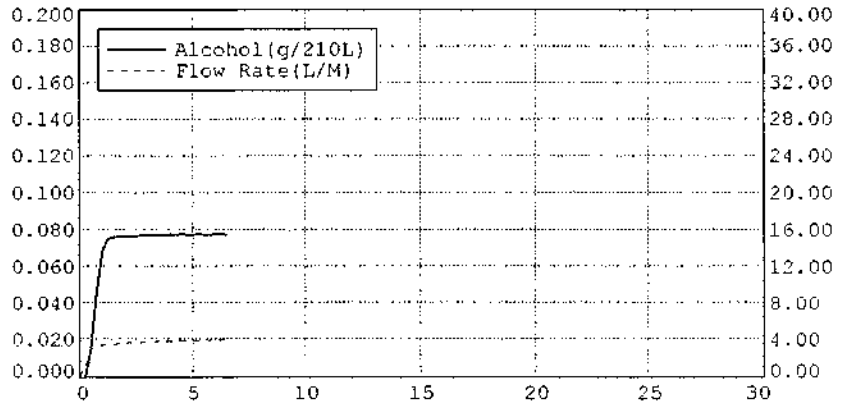
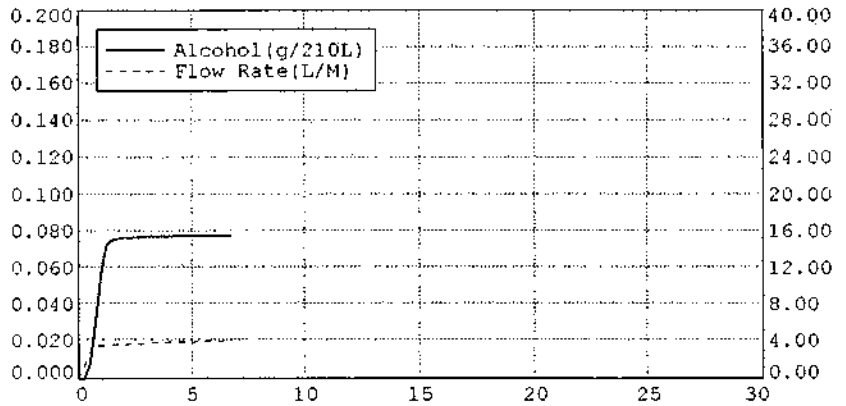
Date: 02/26/2020
Time: 11:21:33

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.27: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 975 psi

BLANK TEST	0.000	11:22
INTERNAL STANDARD	VERIFIED	11:22
EXTERNAL STANDARD	0.079	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.079	11:24
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.079	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.079	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.079	11:27
BLANK TEST	0.000	11:28

Average = 0.0790
Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100696

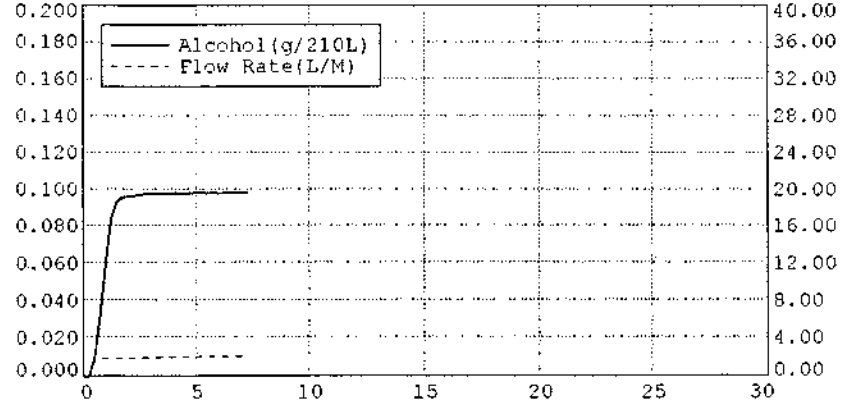
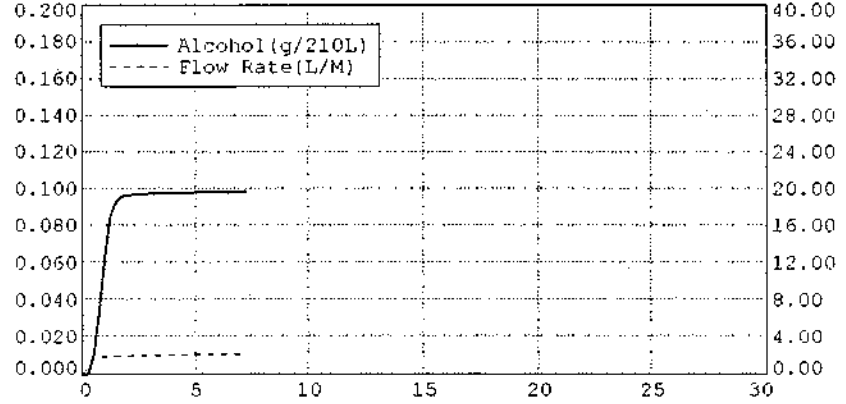
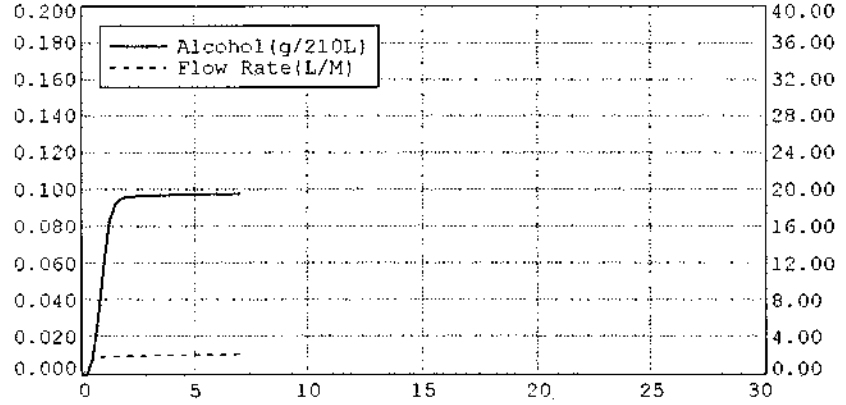
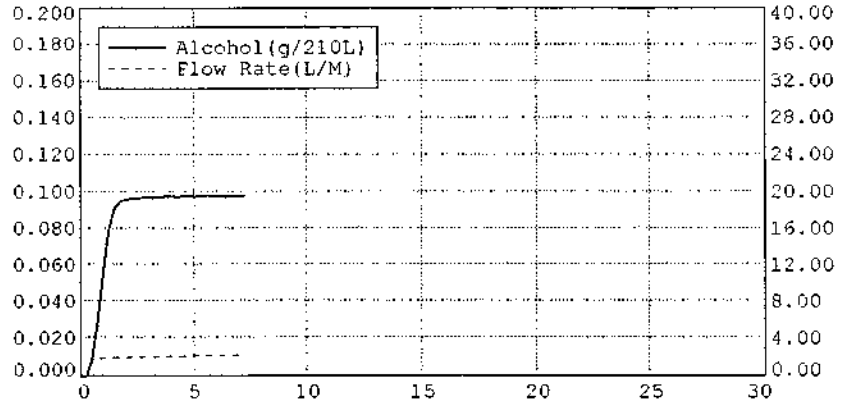
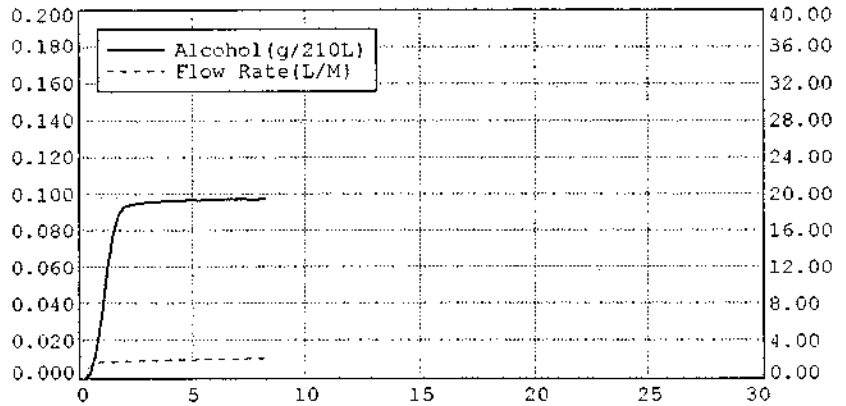
Date: 02/26/2020
Time: 11:36:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.26: 0.098
LOT #: AG805903
EXPIRATION: 02/28/2020
TANK PRESSURE: 338 psi

BLANK TEST	0.000	11:37
INTERNAL STANDARD	VERIFIED	11:37
EXTERNAL STANDARD	0.098	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.099	11:39
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.099	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.099	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.099	11:42
BLANK TEST	0.000	11:43

Average = 0.0988
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100696

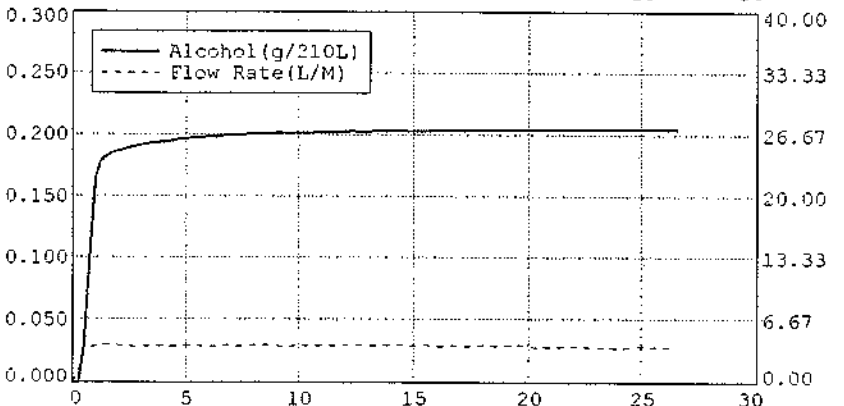
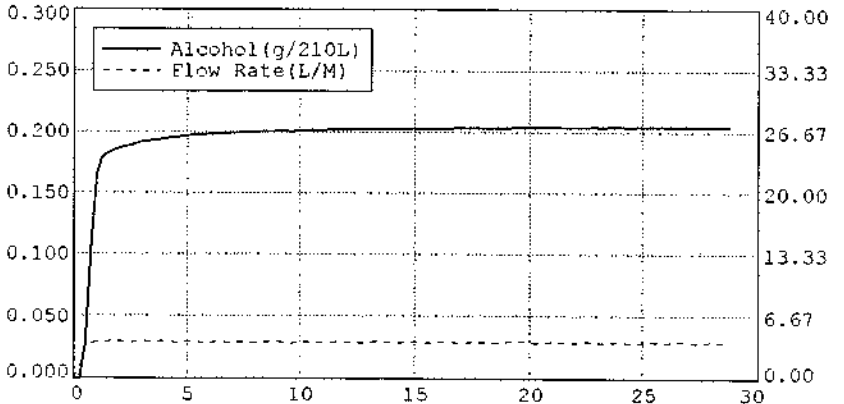
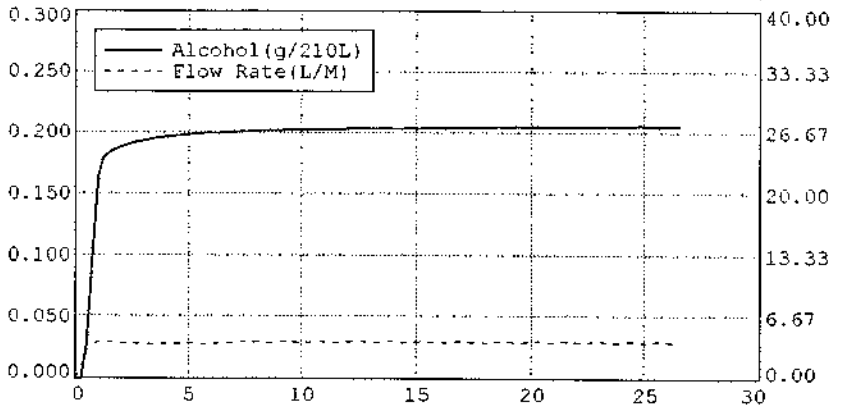
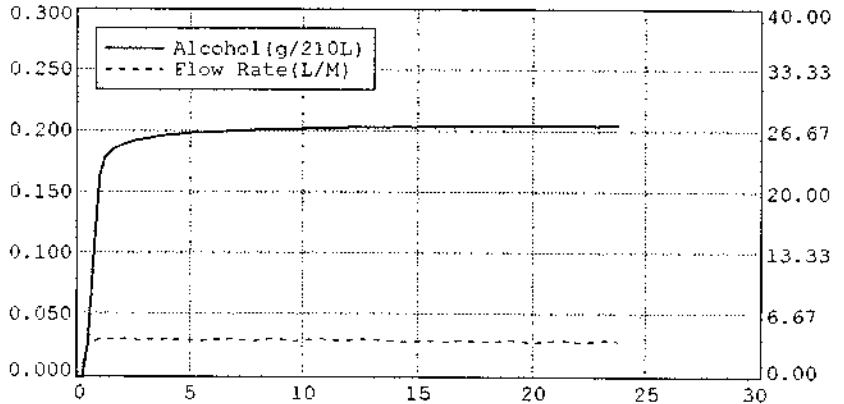
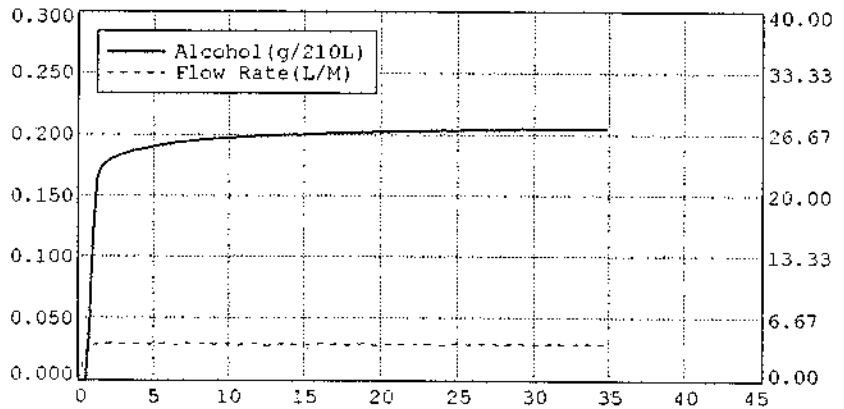
Date: 02/26/2020
 Time: 11:44:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 19040
 EXPIRATION: 01/29/2021

BLANK TEST	0.000	11:45
INTERNAL STANDARD	VERIFIED	11:46
EXTERNAL STANDARD	0.206	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.206	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.206	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.205	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.205	11:52
BLANK TEST	0.000	11:53

Average = 0.2056
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100696

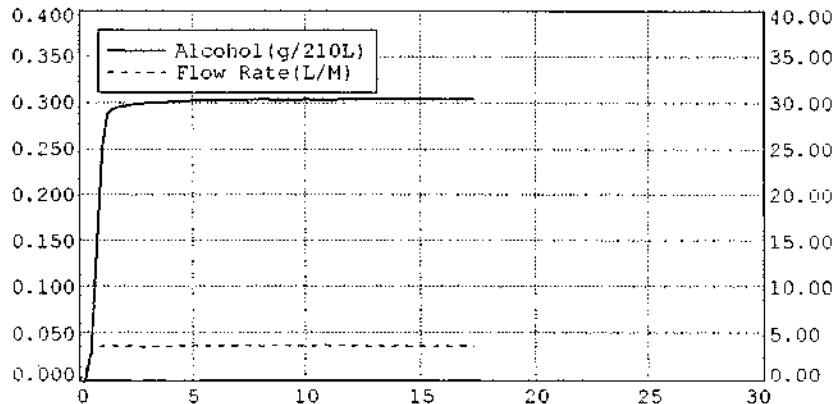
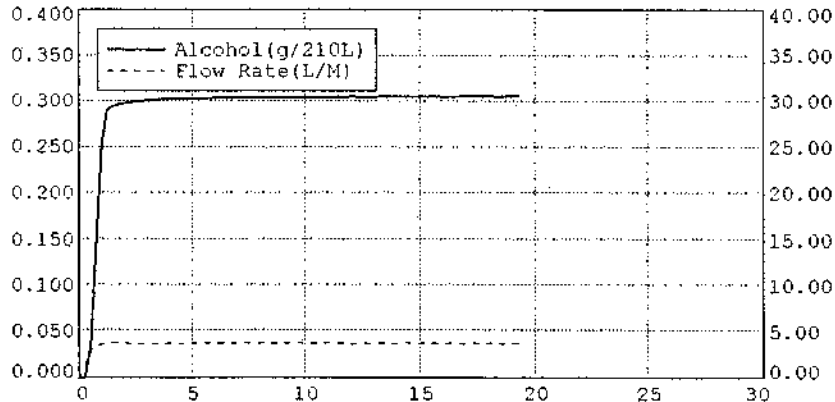
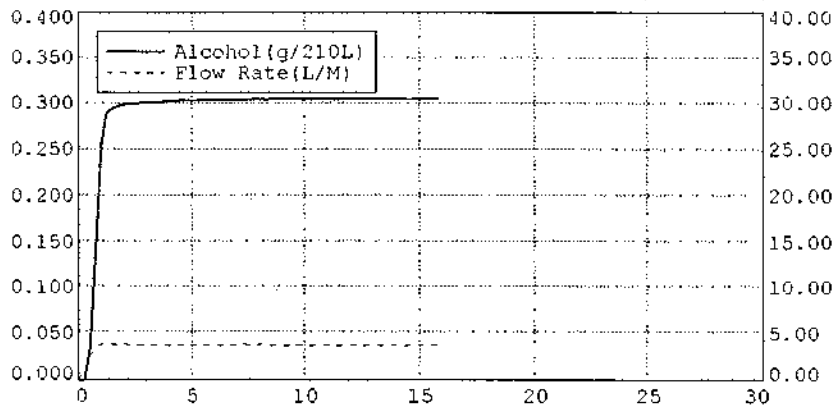
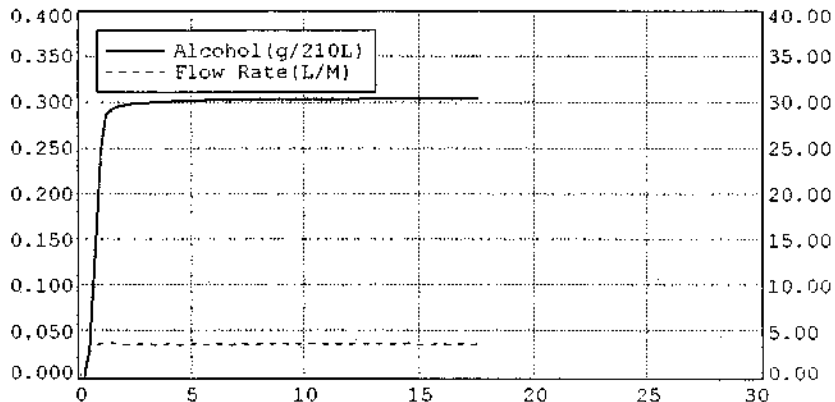
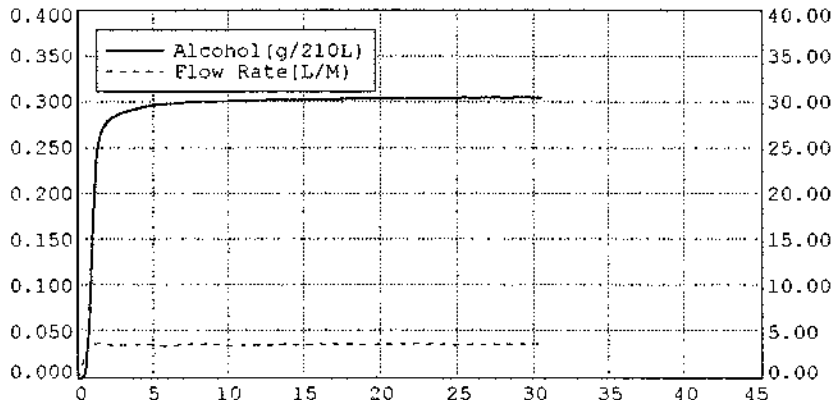
Date: 02/26/2020
 Time: 11:55:05

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:56
INTERNAL STANDARD	VERIFIED	11:56
EXTERNAL STANDARD	0.307	11:57
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.306	11:58
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.306	11:59
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.307	12:01
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.306	12:02
BLANK TEST	0.000	12:03

Average = 0.3064
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 02/26/2020
Time: 13:38:30

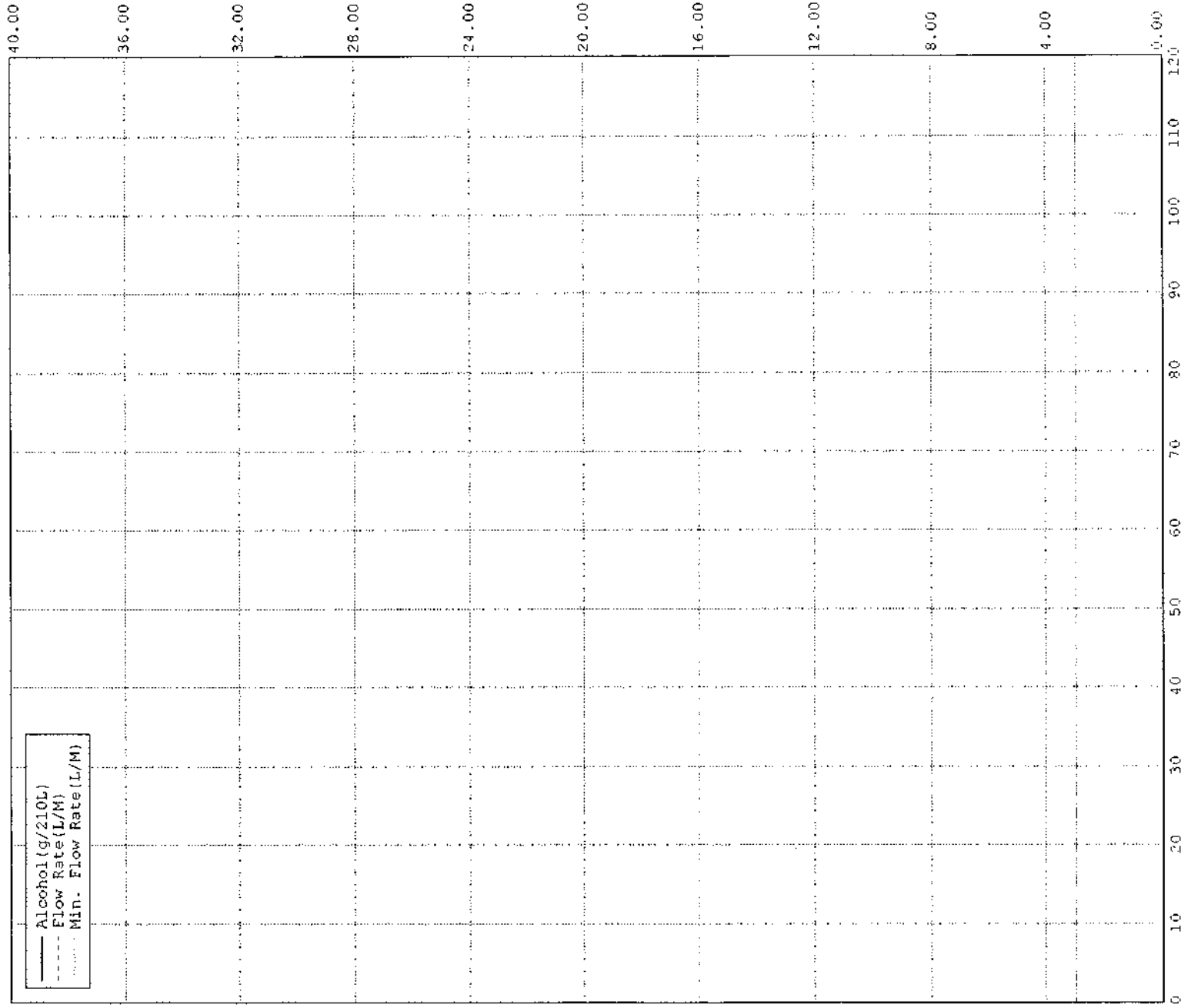
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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 29.26: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 13:39
BLANK TEST 0.000 13:40
INTERNAL STANDARD VERIFIED 13:40
EXTERNAL STANDARD 0.078 13:40
BLANK TEST 0.000 13:41
SUBJECT SAMPLE INCOMPLETE 13:43



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 02/26/2020
Time: 13:46:13

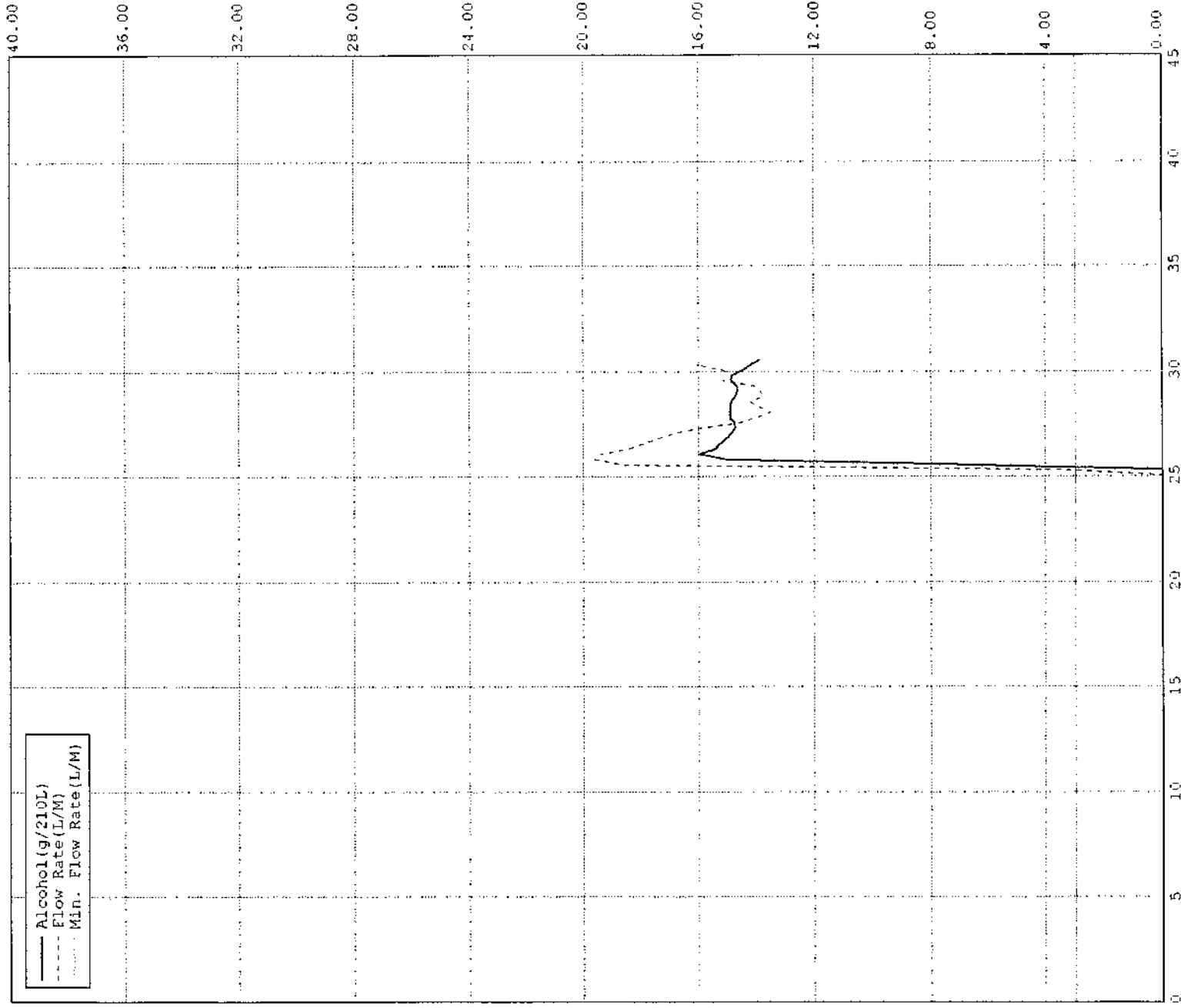
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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 29.26: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK
BLANK TEST PASSED 13:47
INTERNAL STANDARD 0.000 13:48
EXTERNAL STANDARD VERIFIED 13:48
BLANK TEST 0.078 13:48
SUBJECT SAMPLE 0.000 13:49
INVALID 13:49



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 02/26/2020
Time: 14:01:50

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

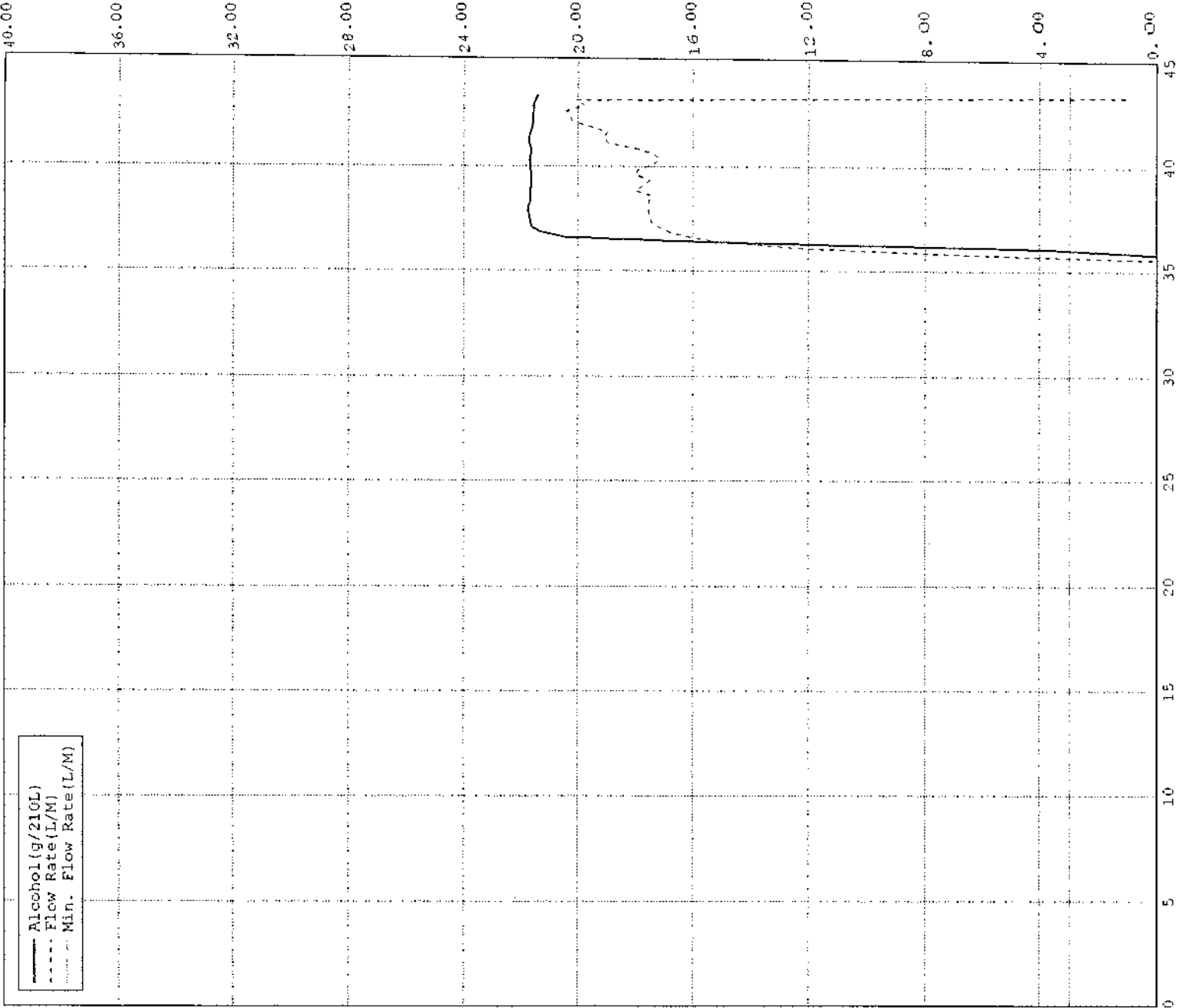
NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	14:02
BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
Xq = 0.105 (1.36%)		
EXTERNAL STANDARD	0.079	14:03
X[1] = 0.0788 (-0.0009) (0.0031)		
BLANK TEST	0.000	14:04
SUBJECT SAMPLE	XXX	14:05
X[1] = 0.1077 (-0.0176) (0.0017)		

Interference Detected

Filter 2 avg = 0.0016

Filter 3 avg = 0.0028



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 02/26/2020
Time: 14:09:56

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

DEPT/AGENCY:
AAA1

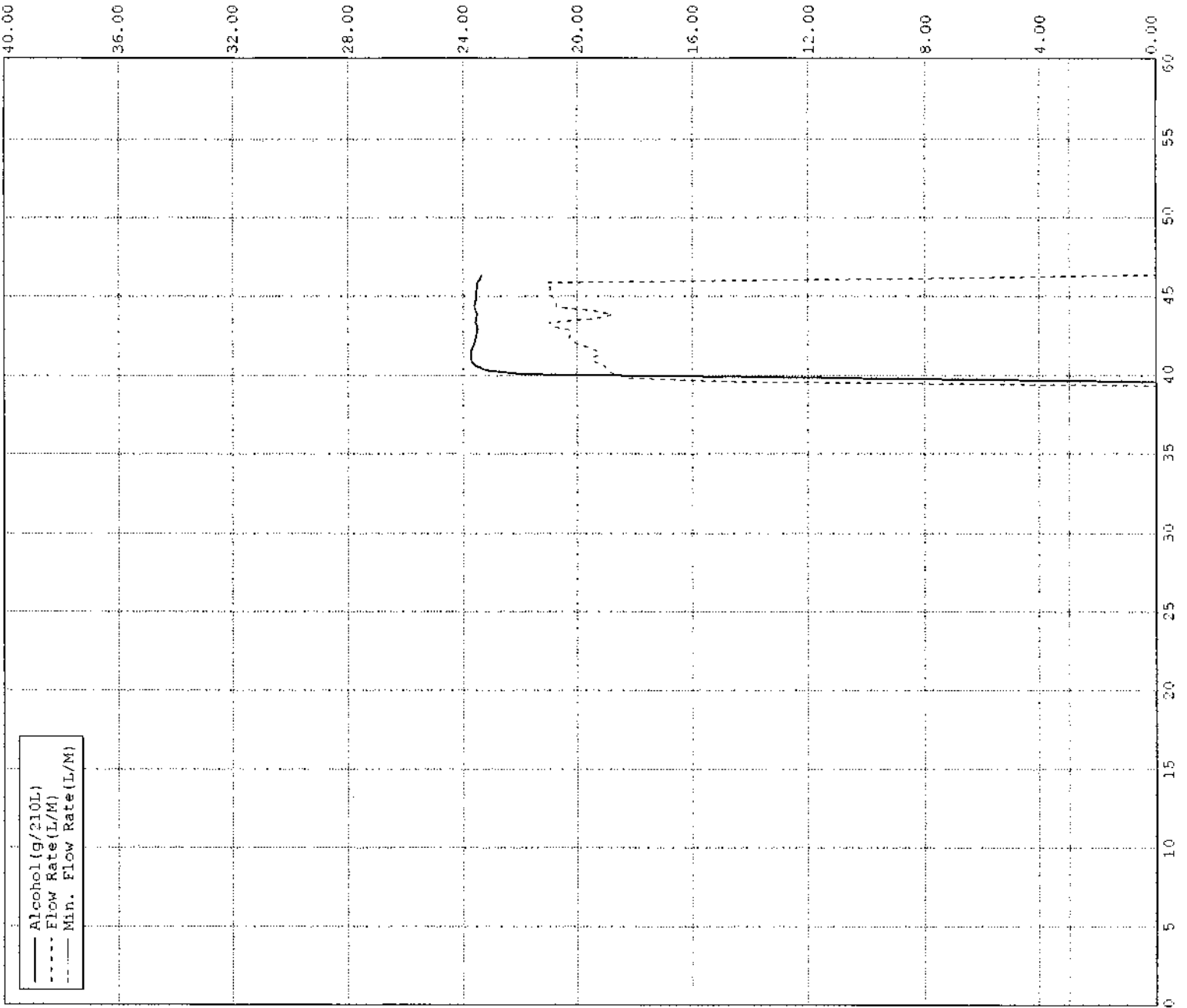
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	14:10
BLANK TEST	0.000	14:11
INTERNAL STANDARD	VERIFIED	14:11
Xq = 0.105 (1.02%)		
EXTERNAL STANDARD	0.078	14:11
X[1] = 0.0783 (-0.0021)	(0.0025)	
BLANK TEST	0.000	14:12
SUBJECT SAMPLE	XXX	14:13
X[1] = 0.1170 (-0.0266)	(0.0008)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
 DAFAMASTER dmt: 100696

Date: 02/26/2020
 Time: 14:27:55

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-NEG

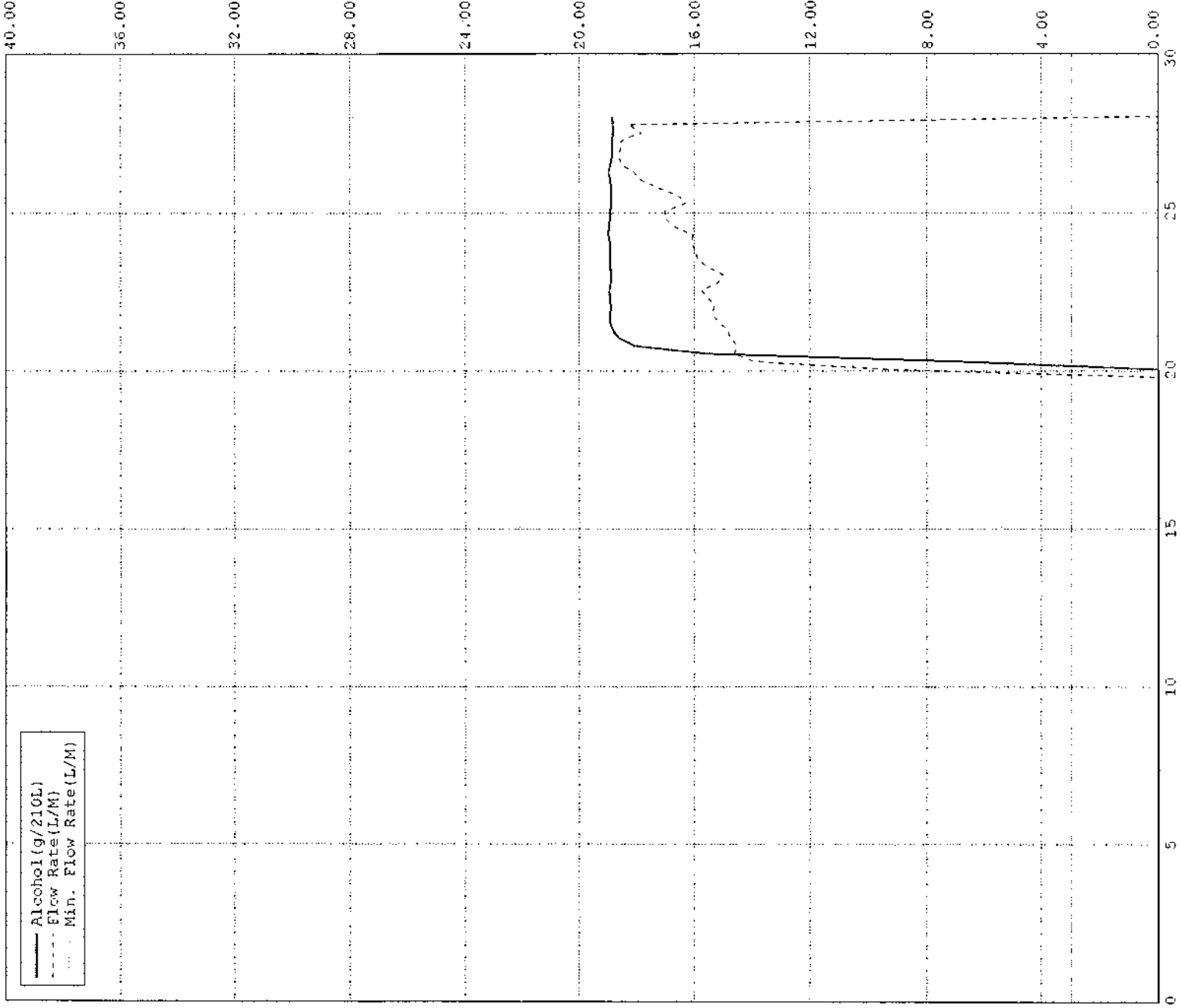
OPERATOR NAME:
 COLLEEN S OBRVANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.26: 0.078
 LOT #: AG826101
 EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	14:29
BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
$X_q = 0.104$ (0.76%)	0.078	14:29
EXTERNAL STANDARD	$X[1] = 0.0784$ (-0.0015) (0.0032)	14:30
BLANK TEST	0.000	14:30
SUBJECT SAMPLE (Vol=2.15L)	0.094	14:30
$X[1] = 0.0946$ (0.0004) (0.0005)	0.000	14:31
BLANK TEST	0.078	14:32
EXTERNAL STANDARD	$X[1] = 0.0780$ (-0.0019) (0.0022)	14:33
BLANK TEST	0.000	14:33



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 02/27/2020
Time: 08:44:10

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

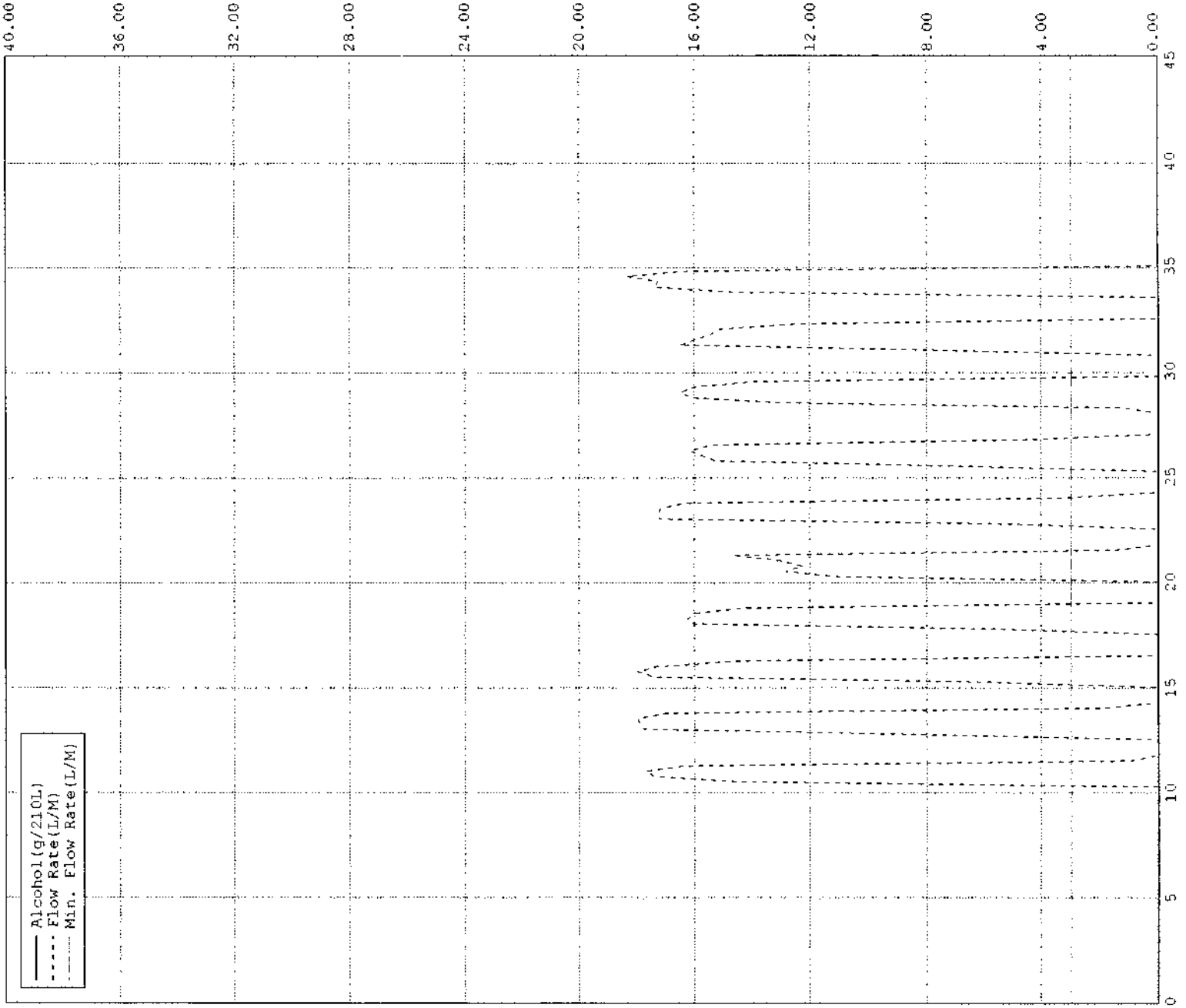
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.32: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 08:46
BLANK TEST 0.000 08:46
INTERNAL STANDARD VERIFIED 08:46
EXTERNAL STANDARD 0.078 08:46
BLANK TEST 0.000 08:47
SUBJECT SAMPLE XXX 08:48

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 02/27/2020
Time: 08:49:47

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAA1

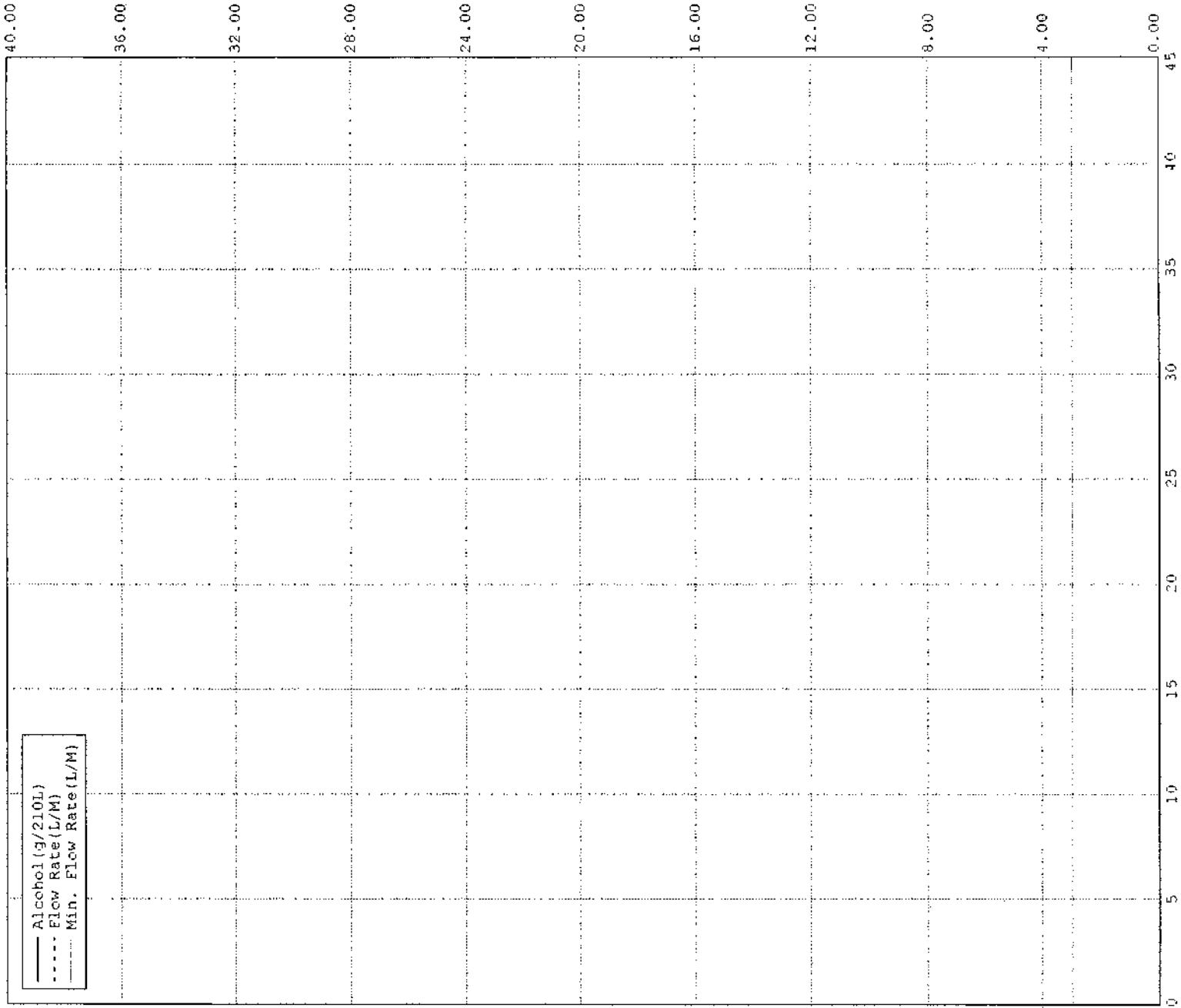
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.33: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 08:51
BLANK TEST 0.000 08:51
INTERNAL STANDARD VERIFIED 08:51
EXTERNAL STANDARD 0.080 08:51
BLANK TEST 0.000 08:52

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100696

Date: 02/27/2020
Time: 09:39:16

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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 29.33: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	09:41
BLANK TEST	0.000	09:41
INTERNAL STANDARD	VERIFIED	09:41
EXTERNAL STANDARD	0.079	09:41
BLANK TEST	0.000	09:42
SUBJECT SAMPLE (Vol=2.09L)	0.000	09:43
BLANK TEST	0.000	09:43
EXTERNAL STANDARD	0.079	09:44
BLANK TEST	0.000	09:45

