

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMCEF 2020 R0
Status: Active

Instrument S/N 100351 Analyst Brandi Barnett Start Date 6/10/20

Diagnostic Test (attached)

Internal Standard value $\leq 3.00\%$

Voltage Checks

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)

Set RFI

Adjust barometer reading to match NIST traceable barometer

Adjust volume setting, if needed (1.5L +/- 0.1L)

Print Technician Screen (attached)

Print Calibration Factors (attached)

Volume Test - Minimum 1.5 L (1.3L to 1.7L)

Linearity Test (attached)

Levels Used

i. 0.020g/210L Mnf Airgas Lot AG 928203 Exp 10/9/21

ii. 0.040g/210L Mnf Airgas Lot AG 915607 Exp 6/5/21

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

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

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

Simulator S/N SD1200 Date Calibrated 10/8/19

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

Simulator S/N DR4177 Date Calibrated 10/8/19

Functional Tests (attached)

Incomplete

Invalid

Interference

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

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

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

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

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

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

Exceeded Attempts

RFI

Verify stylus is calibrated

Verification of Calibration

Reset Options

Non-Drinking Subject Test (attached)

Clear Memory

Upload

Remove tank prior to shut down

Add Linearity Data to Spreadsheet

End Date 6/11/20

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 06/10/2020
Time: 11:02:00

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 44.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.92 V PASSED
(1.15 V - 2.69 V)
Cooler Voltage = 1.86 V PASSED
(1.12 V - 2.60 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 527 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 5.357 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.001 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 = 0.124 1.53% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100351

Date: 06/10/2020
Time: 11:18 AM

Temperatures (°C)

Sample Cell: 49.6°C
Breath Tube: 44.7°C

Current Barometer 29.7 in
Volume (Ltr) 1.46

Settings

Lamp: 1.87 V
Bias: 80 V
Cooler: 1.83 V
Chopper: 525 Hz

Voltages (V)

Flow: 1.04 V
Detector: -0.030 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 03/18/2020
Time: 08:09:54

OPERATOR NAME:
INTOX I METERS
CERTIFICATE #: 1

Ca = 0.2000
CAL = 0.975058 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0055 0.0010 <= b2 < 0.0100
b3 = 0.0008 0.0000 <= b3 < 0.0040
Xq = 0.1217 0.0500 <= Xq < 0.2000
a21 = 1.157872 1.050 <= a21 < 1.300
a31 = 0.464353 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100351

Date: 06/10/2020

Time: 11:19:54

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

BRANDI BARNETT

OPERATOR'S #: 7038

DEPT/AGENCY:

MINIMUM VOLUME

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.65: 0.079

LOT #: AG826101

EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE (Vol=1.52L)

BLANK TEST

EXTERNAL STANDARD

BLANK TEST

PASSED 11:21

0.000 11:21

VERIFIED 11:21

0.078 11:21

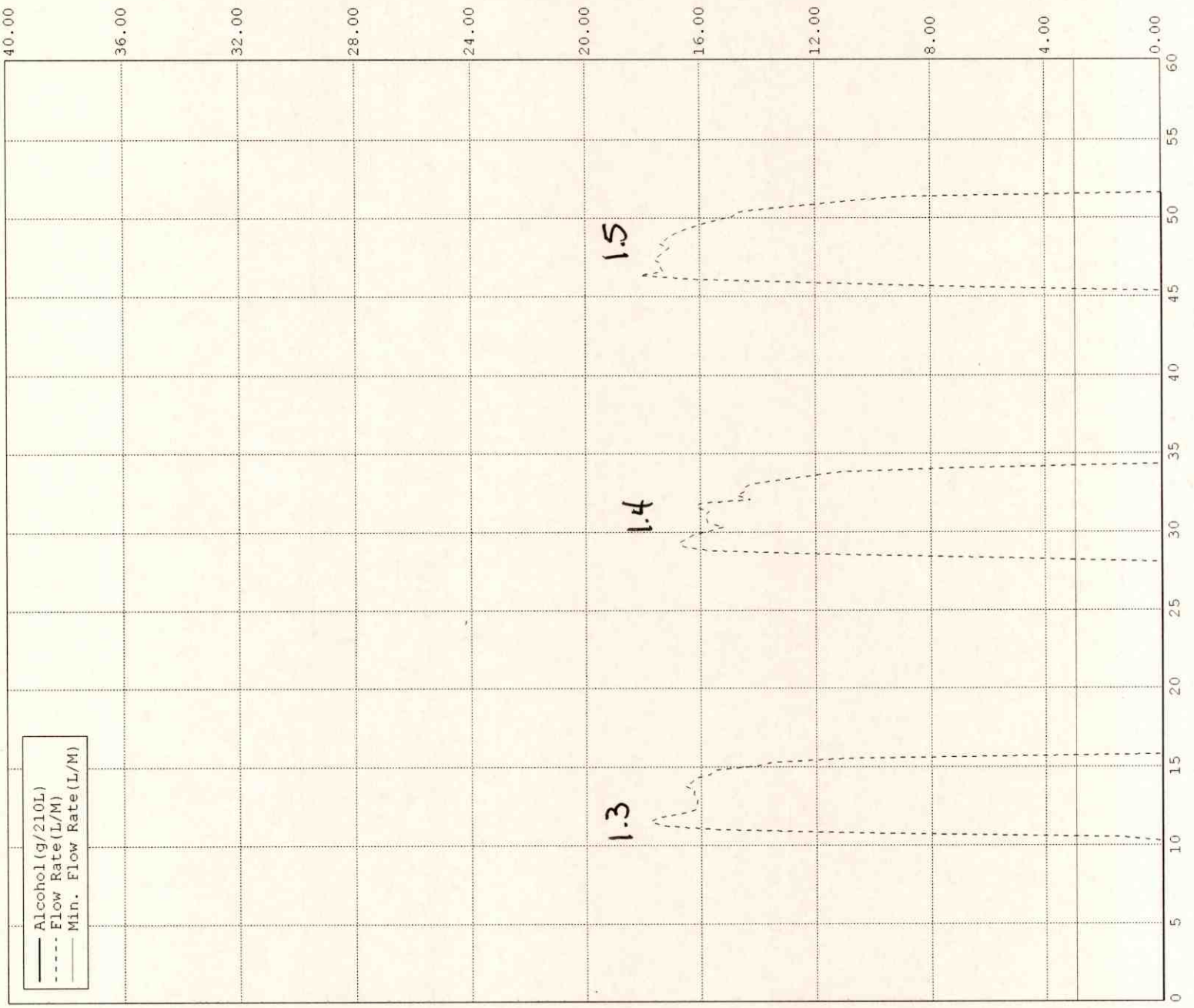
0.000 11:22

0.000 11:23

0.000 11:24

0.078 11:24

0.000 11:25



LINEARITY CHECK

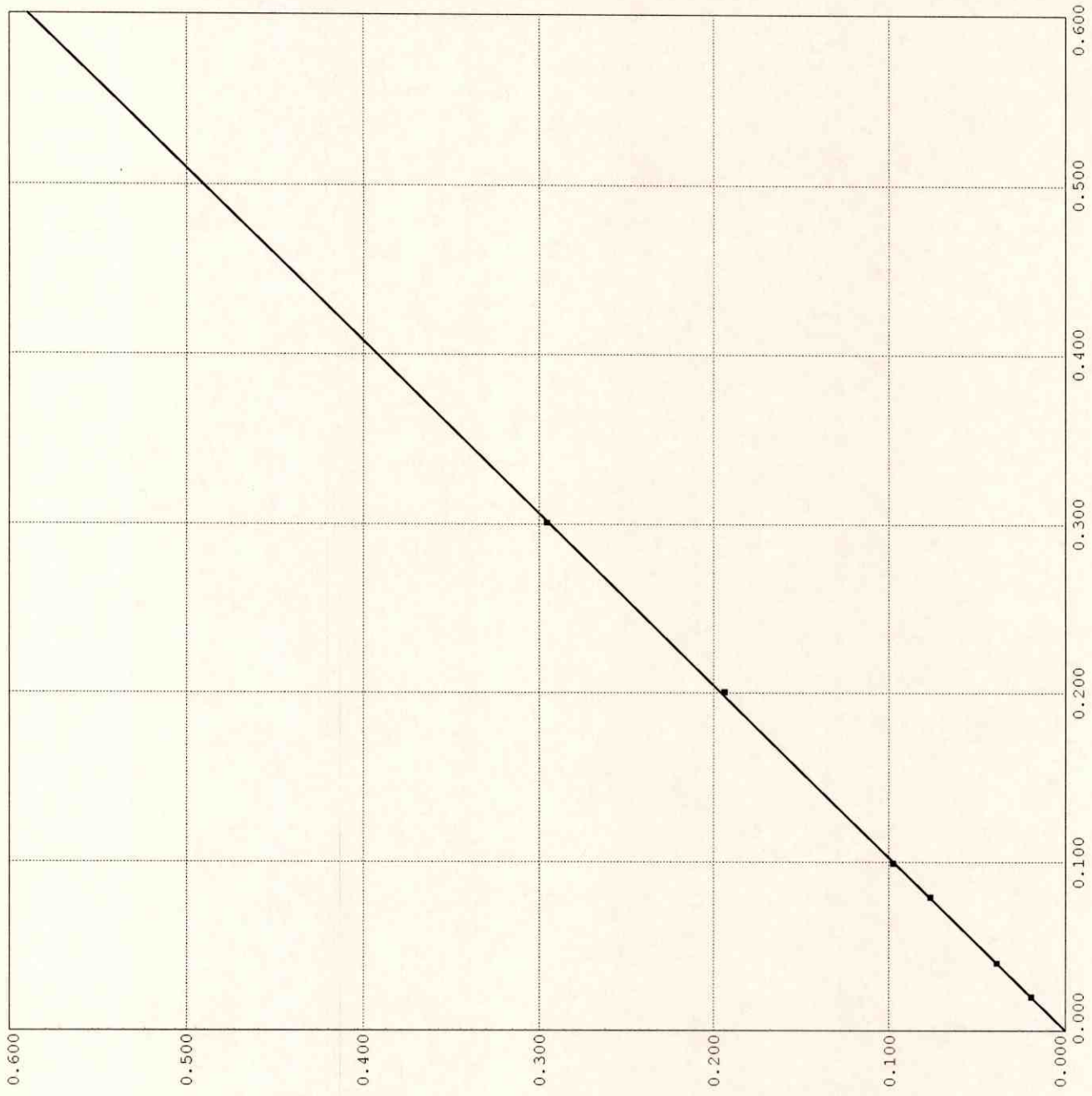
 Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 06/10/2020
 Time: 11:29:42

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0396	0.0005
0.079	0.0774	0.0005
0.099	0.0986	0.0005
0.200	0.1946	0.0027
0.300	0.2962	0.0008

SLOPE = 0.982971
 R² = 0.999865



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

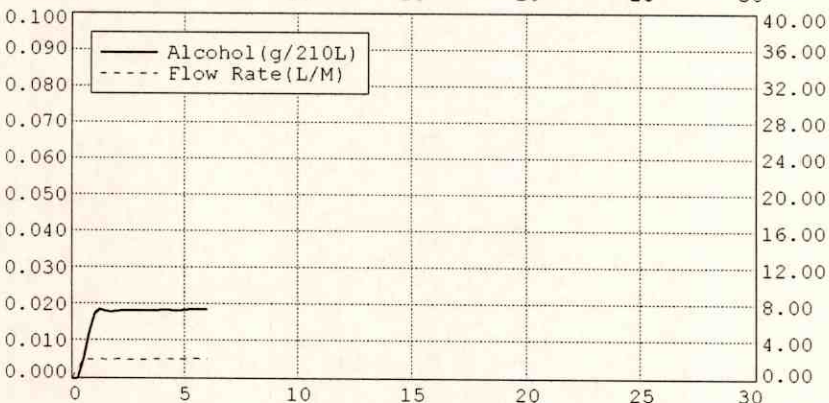
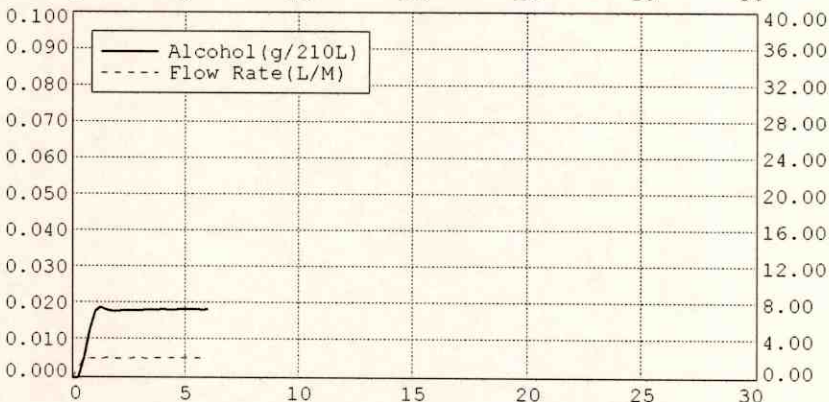
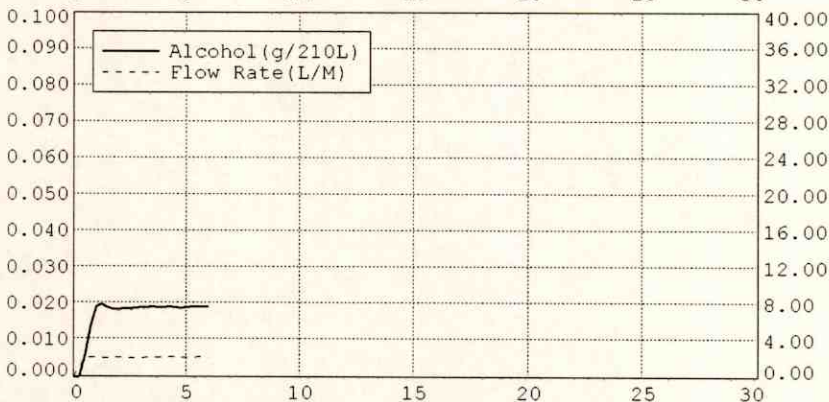
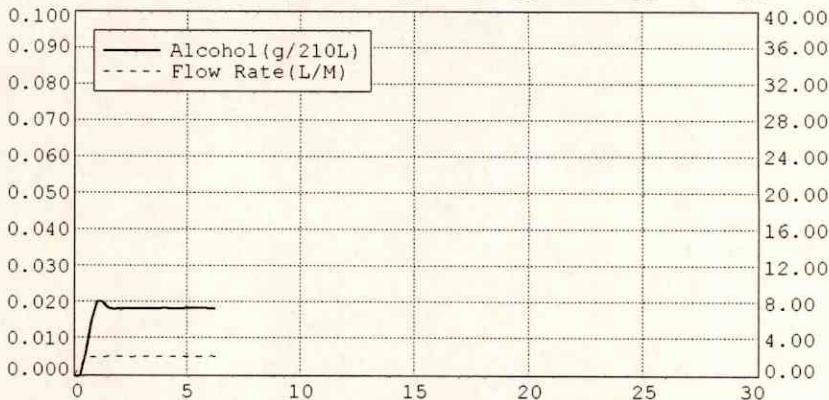
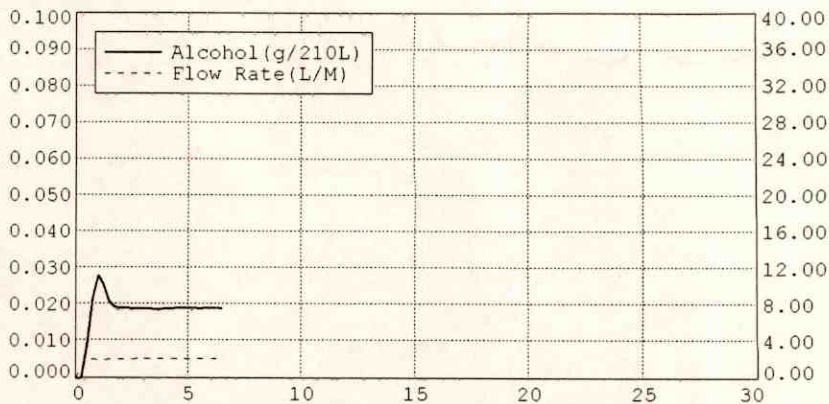
Date: 06/10/2020
 Time: 11:29:44

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.66: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 505 psi

BLANK TEST	0.000	11:30
INTERNAL STANDARD	VERIFIED	11:31
EXTERNAL STANDARD	0.020	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.020	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.020	11:33
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.020	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.020	11:35
BLANK TEST	0.000	11:36

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100351

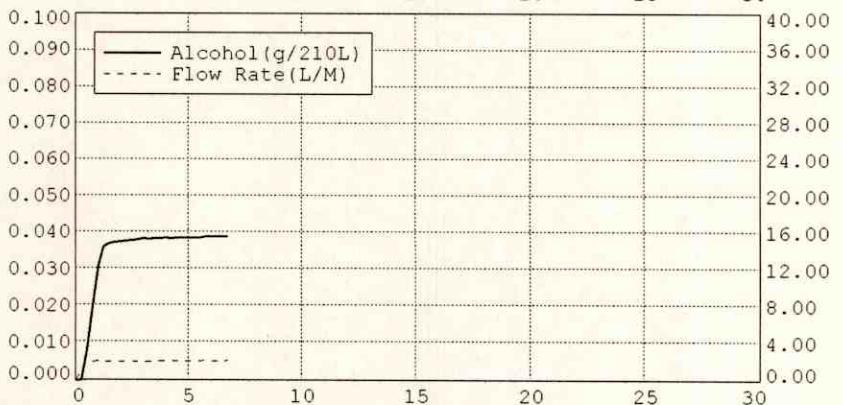
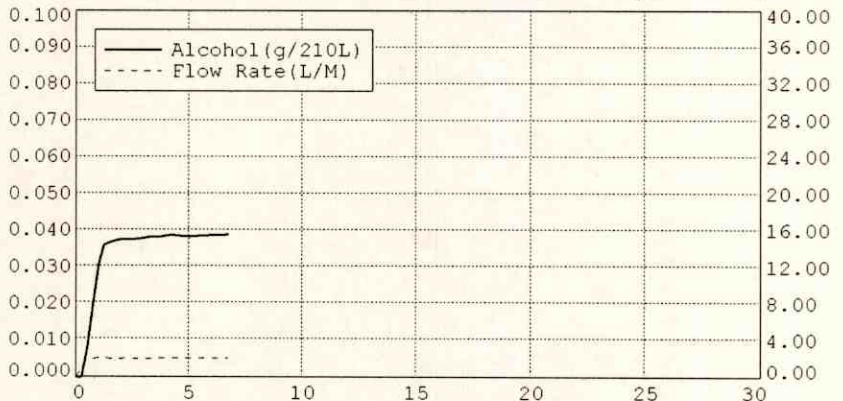
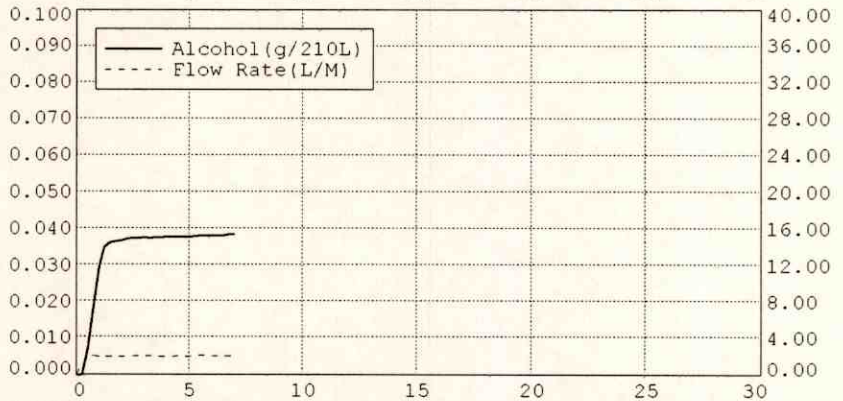
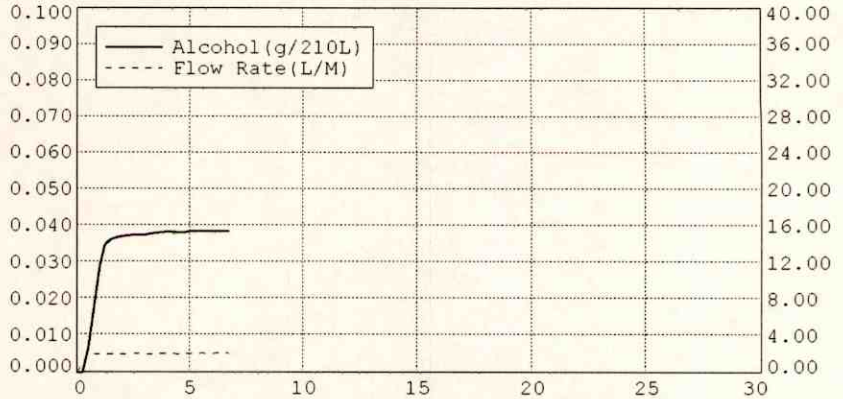
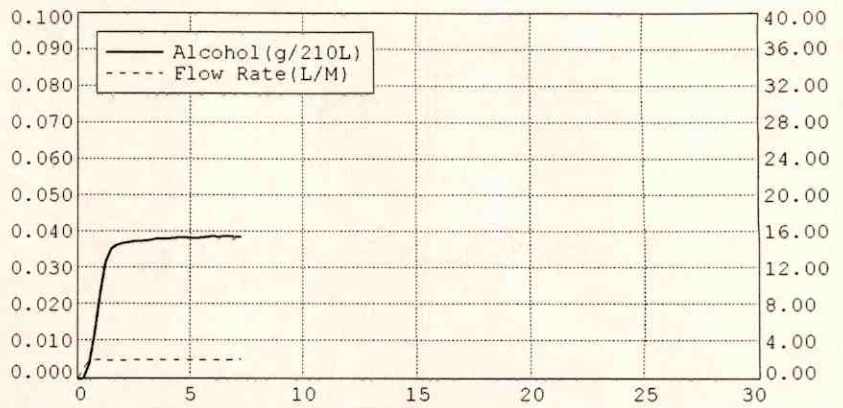
Date: 06/10/2020
Time: 12:22:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.66: 0.040
LOT #: AG915607
EXPIRATION: 06/05/2021
TANK PRESSURE: 722 psi

BLANK TEST	0.000	12:24
INTERNAL STANDARD	VERIFIED	12:24
EXTERNAL STANDARD	0.039	12:25
BLANK TEST	0.000	12:25
EXTERNAL STANDARD	0.040	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.039	12:27
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.040	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.040	12:29
BLANK TEST	0.000	12:30

Average = 0.0396
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100351

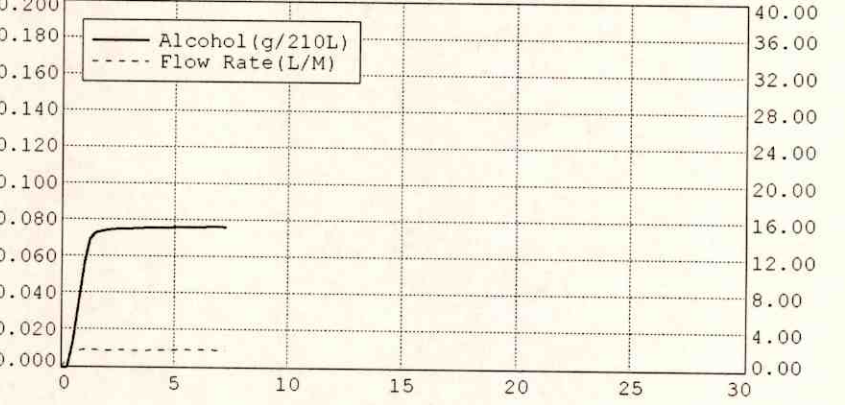
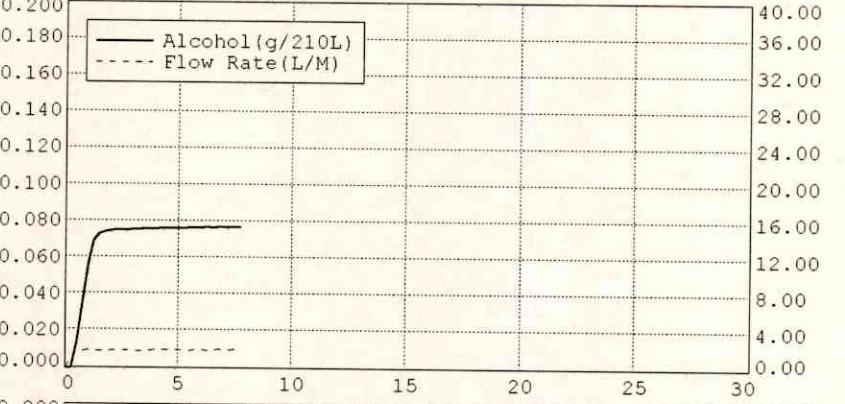
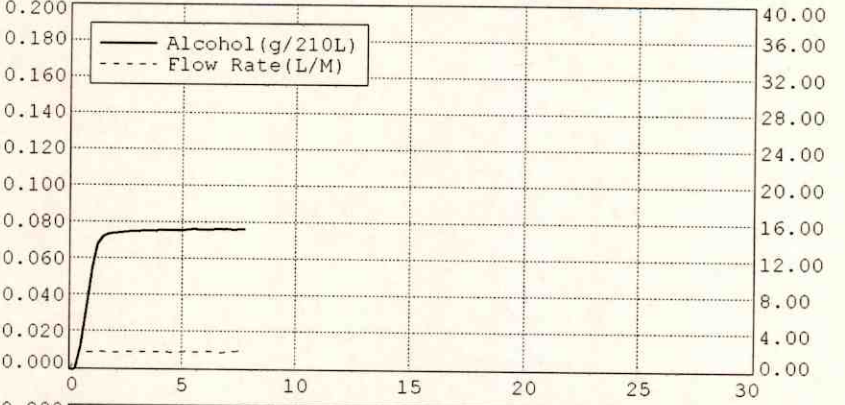
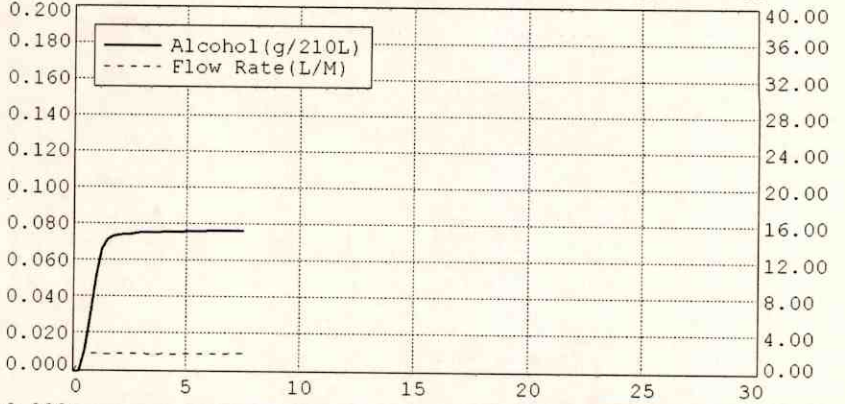
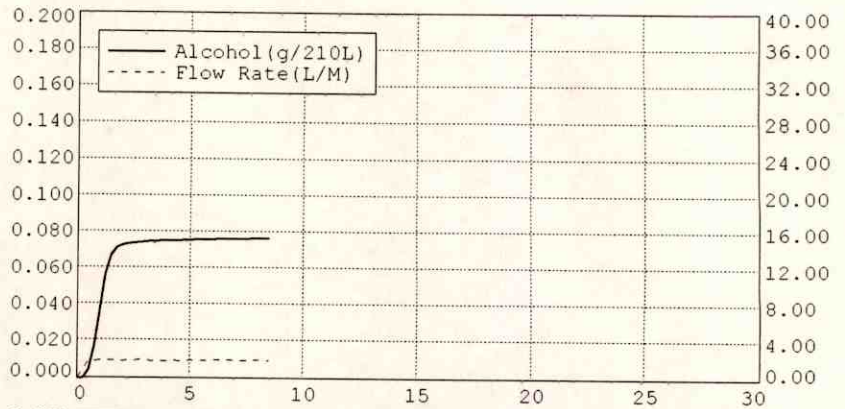
Date: 06/10/2020
Time: 12:37:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.67: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 497 psi

BLANK TEST	0.000	12:38
INTERNAL STANDARD	VERIFIED	12:38
EXTERNAL STANDARD	0.077	12:38
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.077	12:40
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.078	12:41
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.078	12:42
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.077	12:43
BLANK TEST	0.000	12:44

Average = 0.0774
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

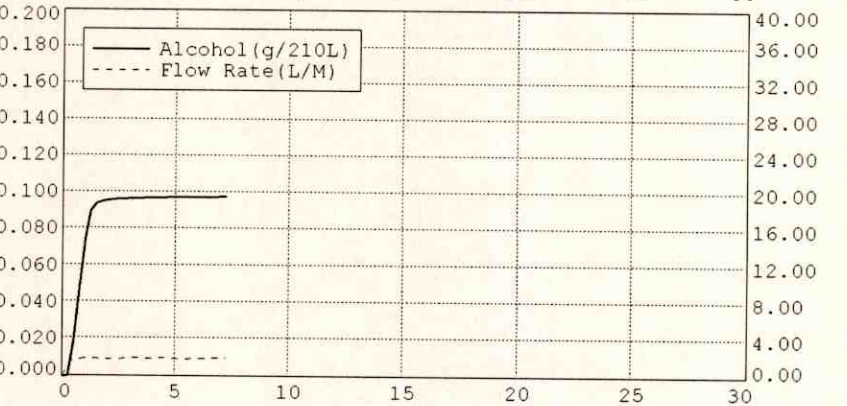
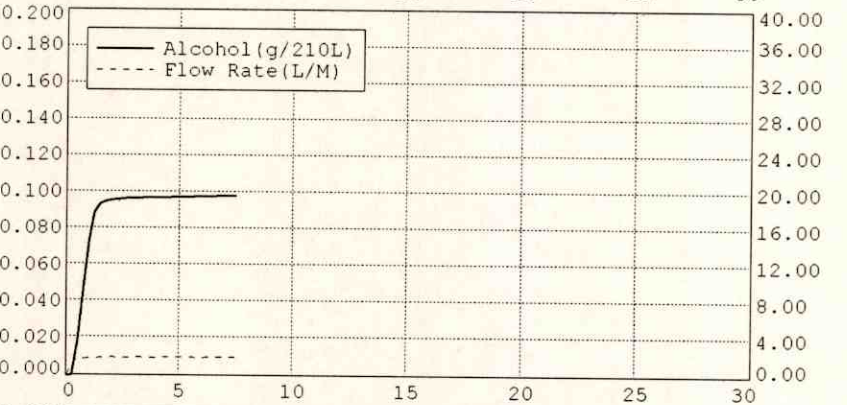
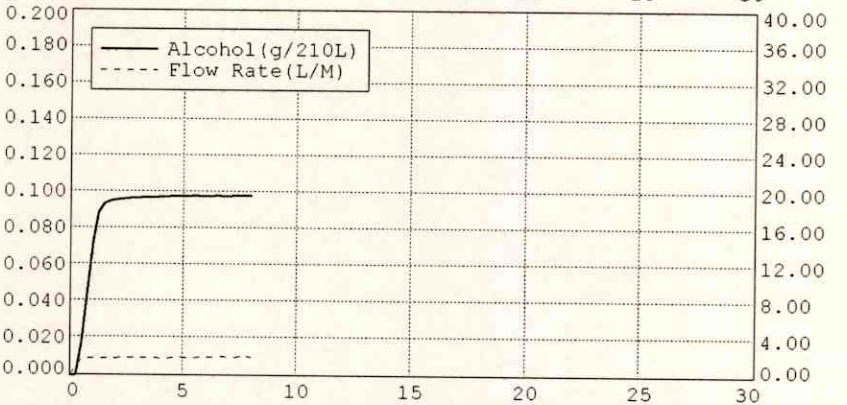
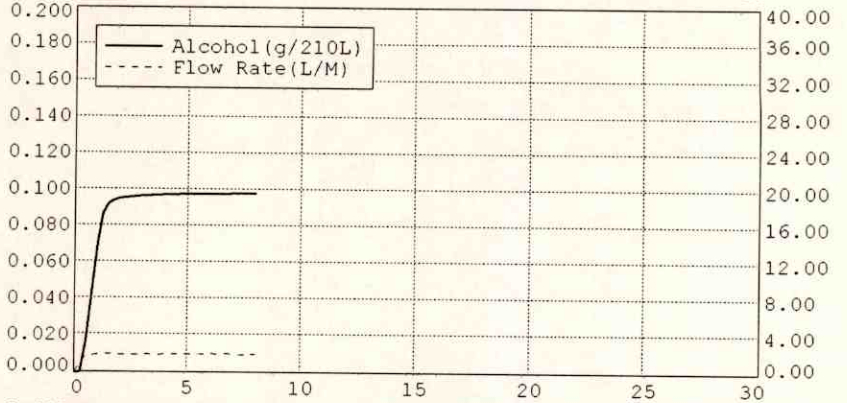
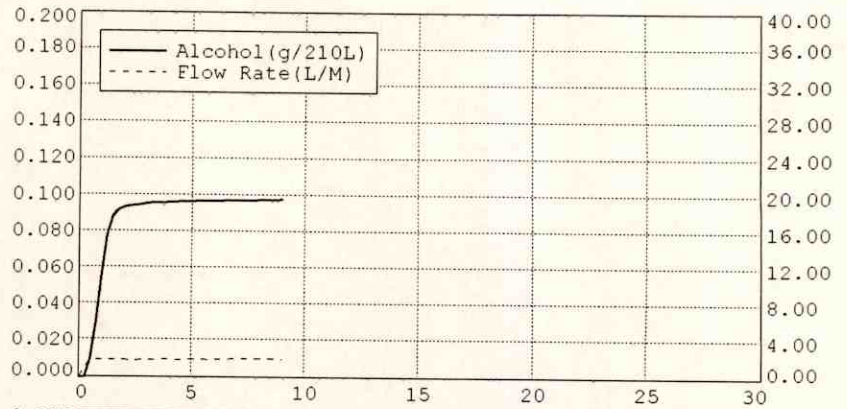
Date: 06/10/2020
 Time: 12:48:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.67: 0.099
 LOT #: AG924701
 EXPIRATION: 09/04/2021
 TANK PRESSURE: 550 psi

BLANK TEST	0.000	12:50
INTERNAL STANDARD	VERIFIED	12:50
EXTERNAL STANDARD	0.098	12:50
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.099	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.099	12:52
BLANK TEST	0.000	12:53
EXTERNAL STANDARD	0.099	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.098	12:54
BLANK TEST	0.000	12:55

Average = 0.0986
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

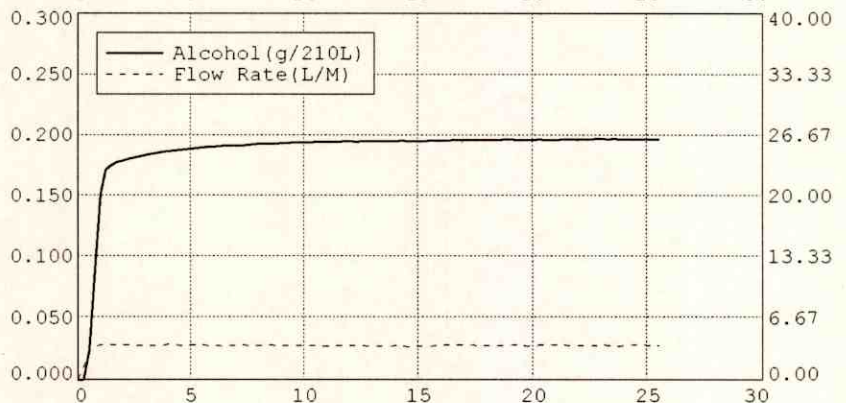
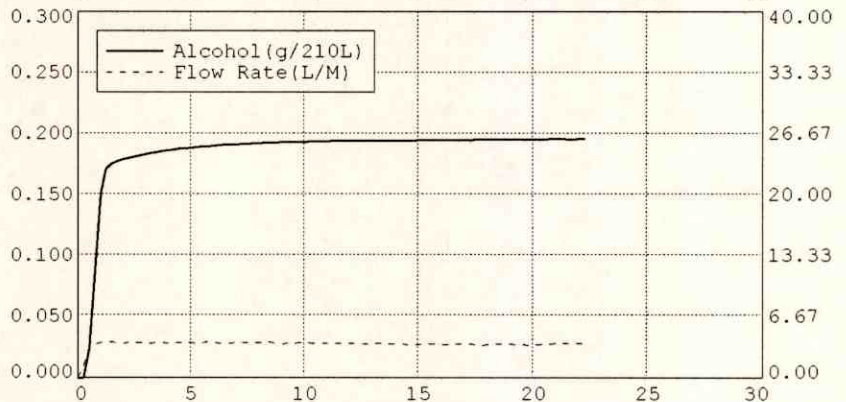
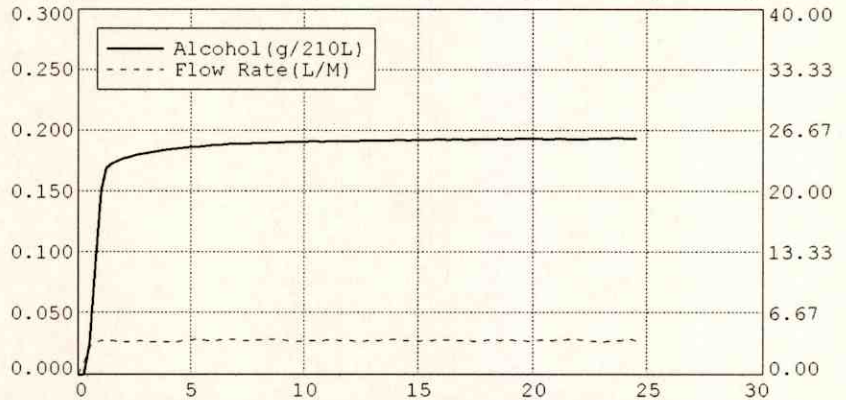
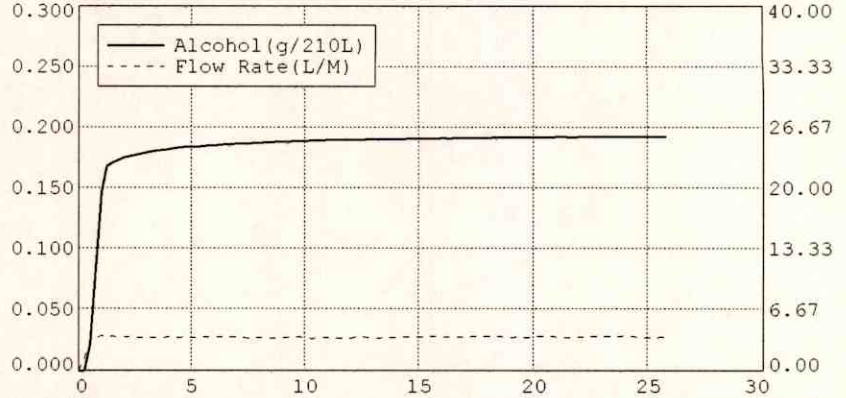
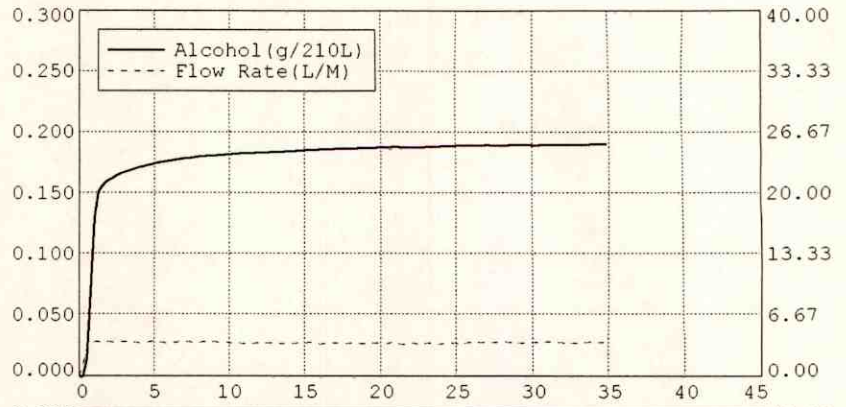
Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 06/10/2020
 Time: 13:14:16

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: GUTH 19200
 EXPIRATION: 08/06/2021

BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.191	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.193	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.195	13:19
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.196	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.198	13:21
BLANK TEST	0.000	13:22

Average = 0.1946
 Std Dev = 0.0027



LINEARITY CHECK: Control Test 6

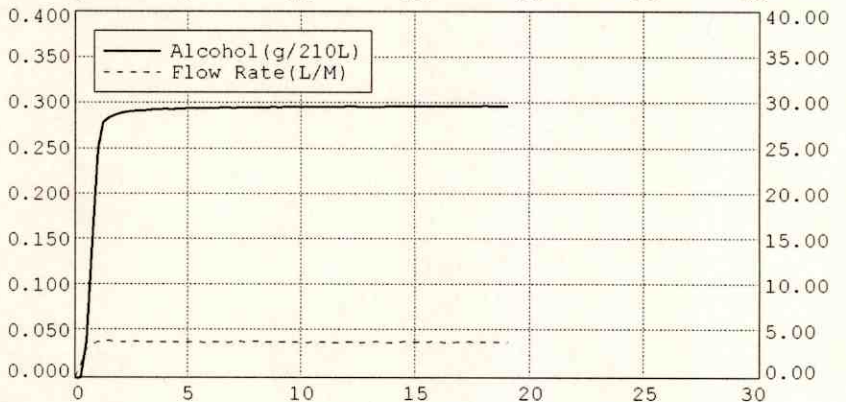
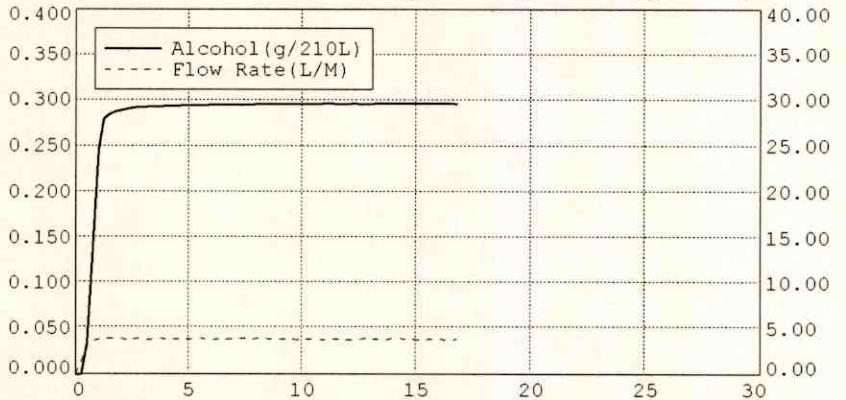
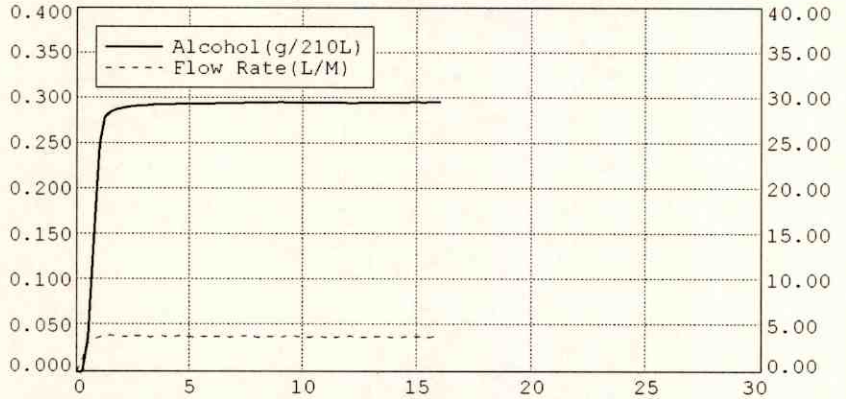
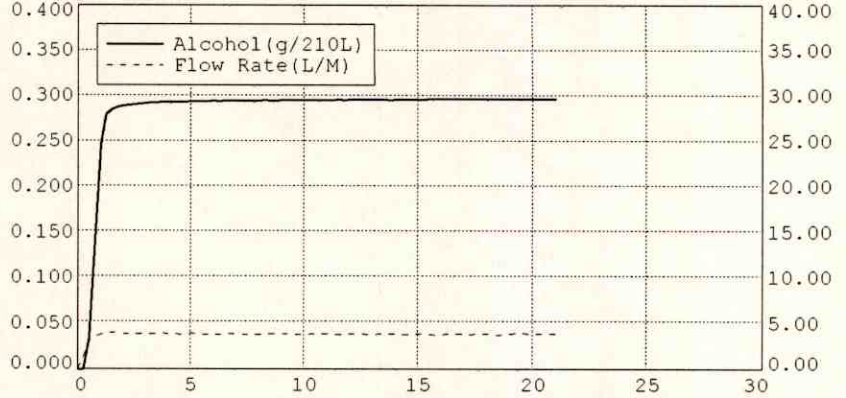
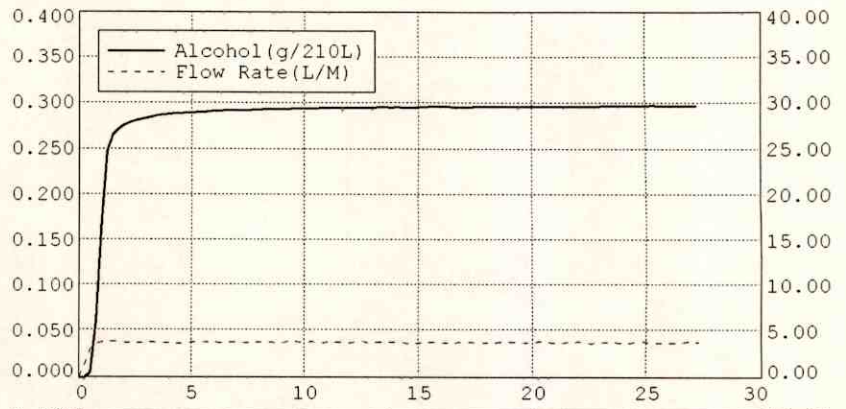
Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 06/10/2020
 Time: 13:26:10

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: GUTH 19330
 EXPIRATION: 11/13/2021

BLANK TEST	0.000	13:27
INTERNAL STANDARD	VERIFIED	13:27
EXTERNAL STANDARD	0.297	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.296	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.295	13:31
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.296	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.297	13:33
BLANK TEST	0.000	13:34

Average = 0.2962
 Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100351

Date: 06/11/2020
Time: 11:07:43

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

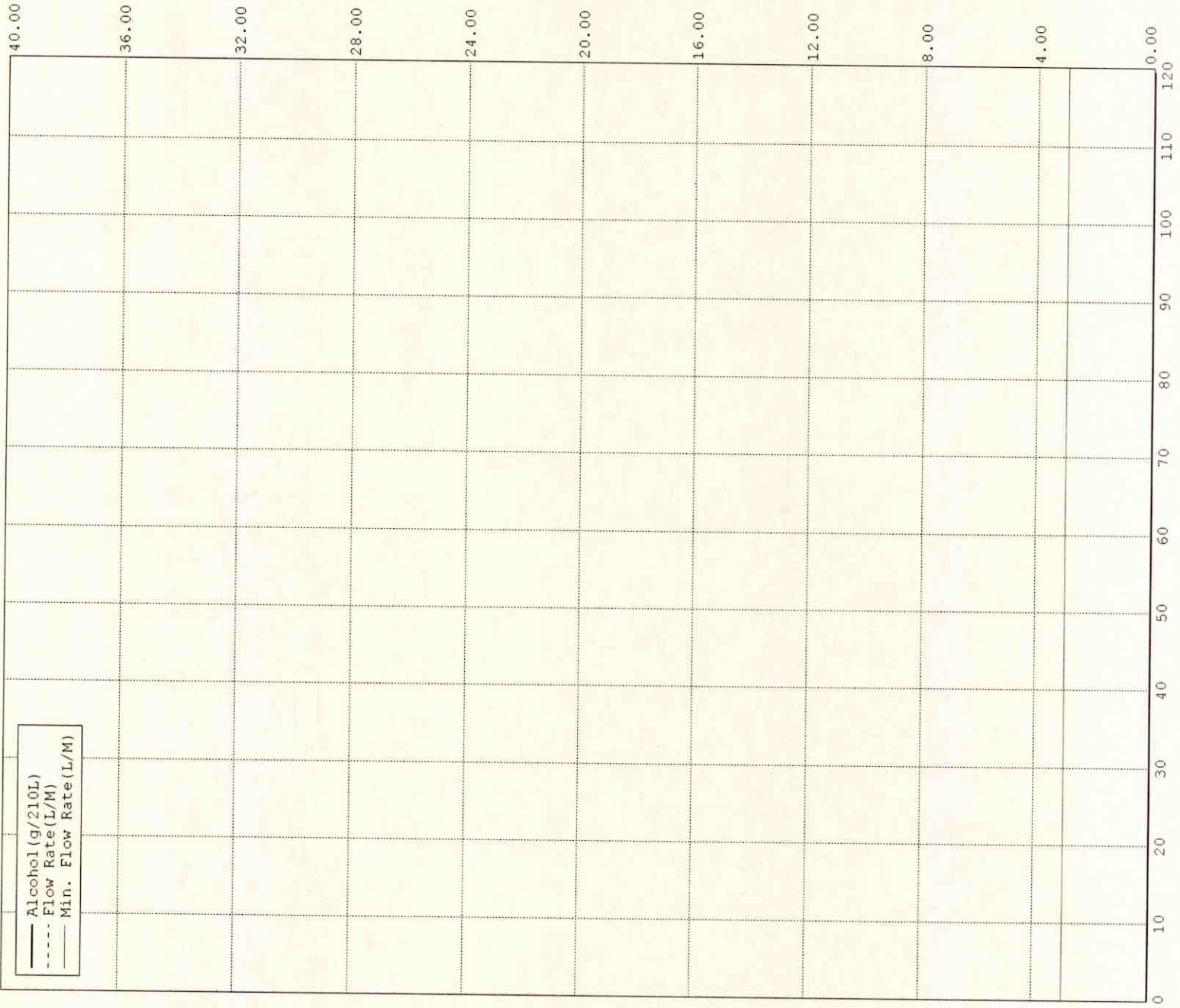
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
INCOMPLETE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 11:11
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 INCOMPLETE 11:14



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 06/11/2020
Time: 11:17:23

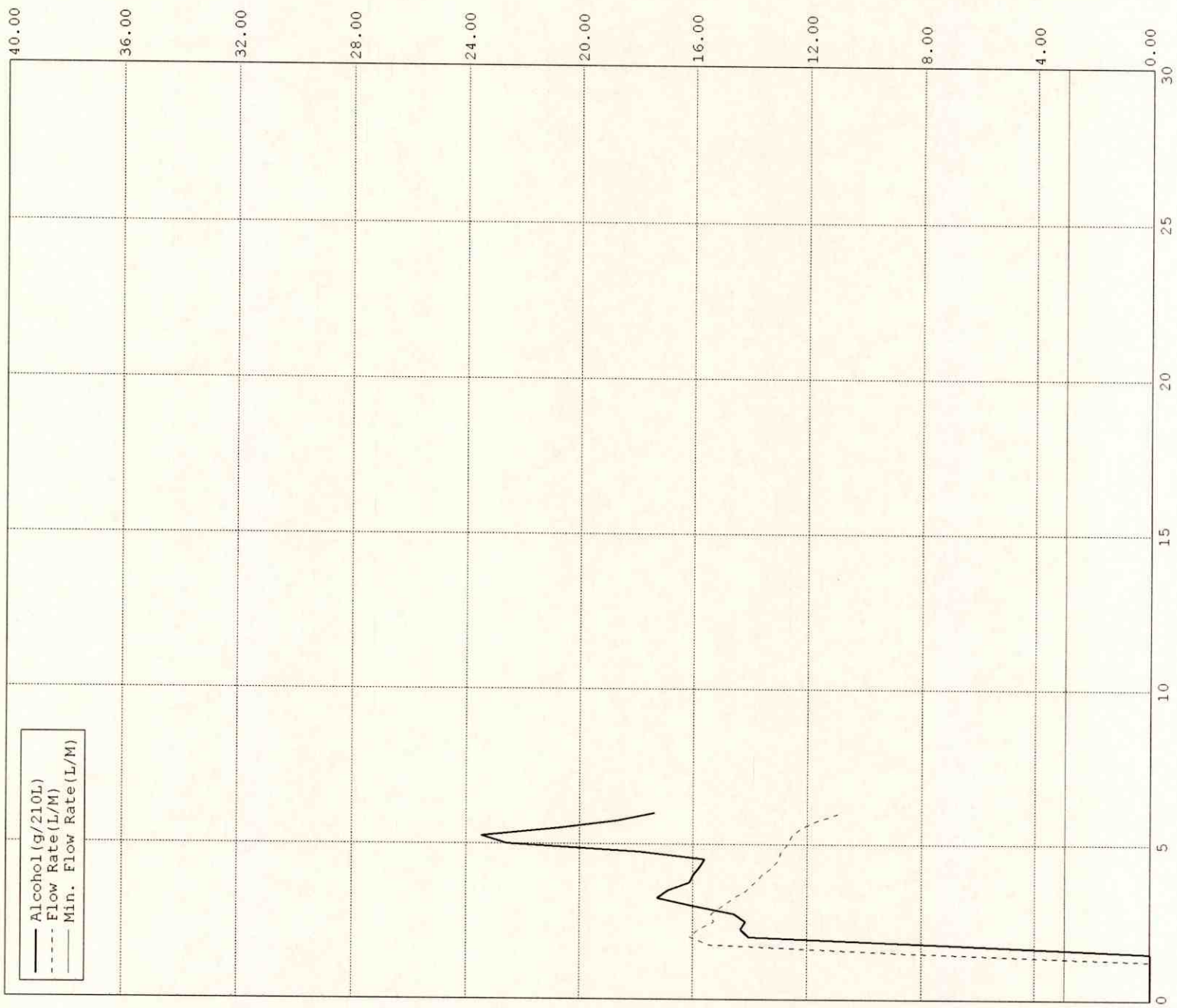
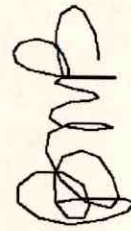
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
INVALID
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK
BLANK TEST PASSED 11:18
INTERNAL STANDARD VERIFIED 11:18
EXTERNAL STANDARD 0.078 11:18
BLANK TEST 0.000 11:19
SUBJECT SAMPLE INVALID 11:20



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 06/11/2020
Time: 12:31:13

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

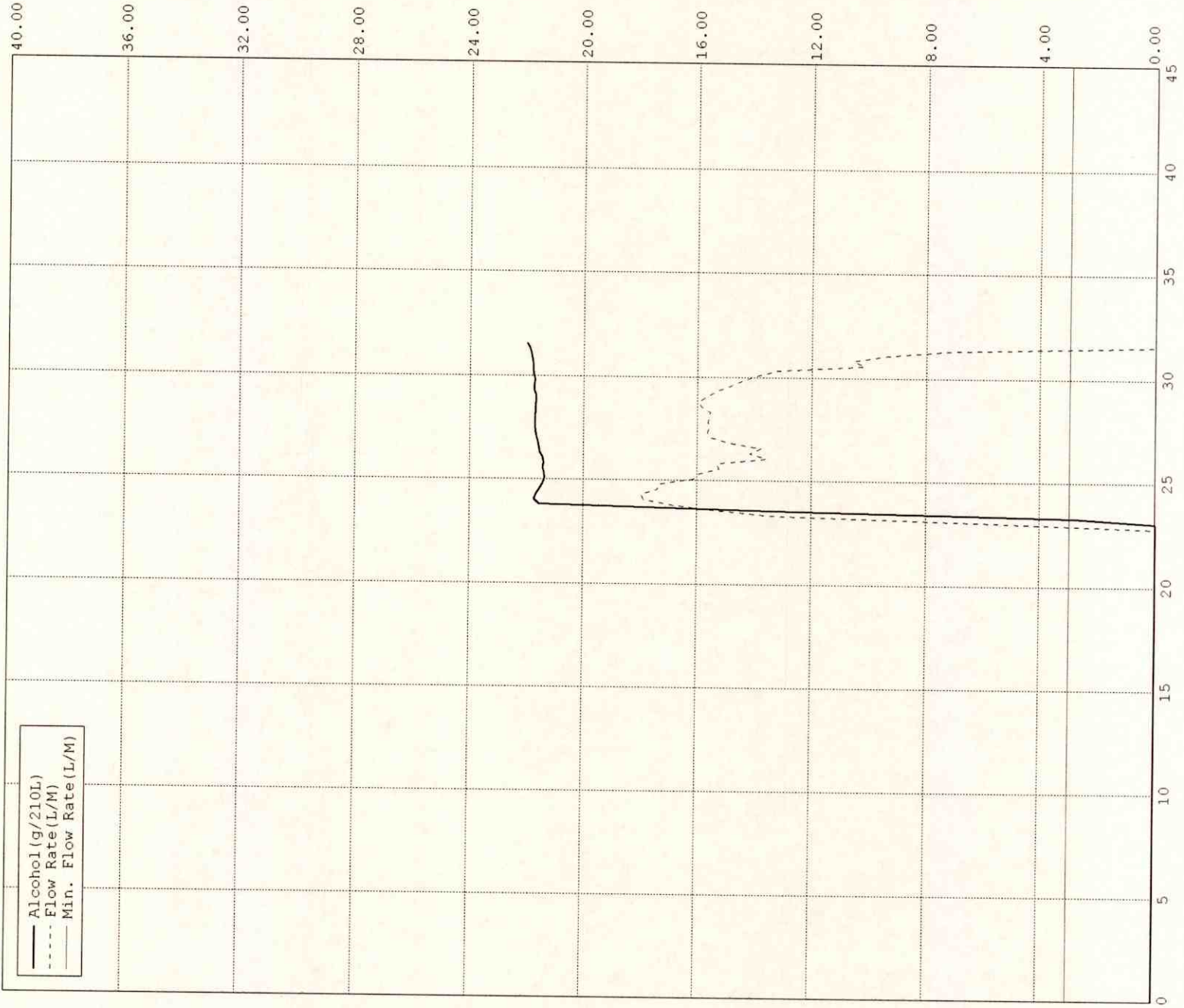
DEPT/AGENCY:
INTERFERENCE ACETONE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 12:32
BLANK TEST 0.000 12:32
INTERNAL STANDARD VERIFIED 12:32
Xq = 0.123 (0.95%)
EXTERNAL STANDARD 0.078 12:33
X[1] = 0.0779 (-0.0015) (0.0006)
BLANK TEST 0.000 12:33
SUBJECT SAMPLE XXX 12:34
X[1] = 0.1106 (-0.0162) (0.0013)

Interference Detected

Filter 2 Avg: -0.0014
Filter 3 Avg: 0.0010
BMB 6/11/20



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 06/11/2020
Time: 12:39:38

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

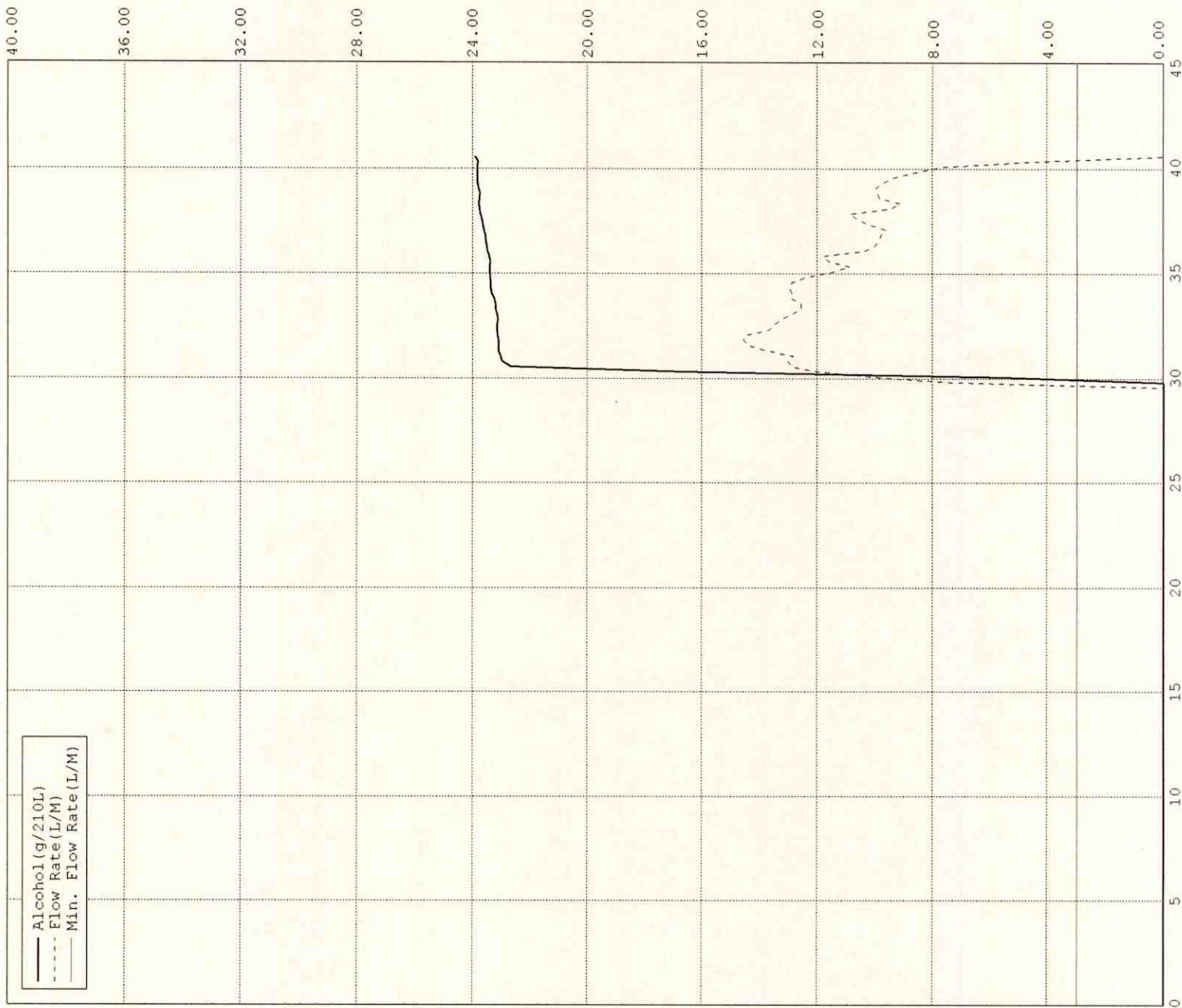
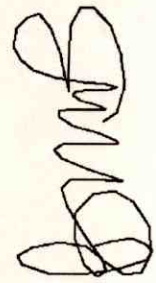
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
INTERFERENCE ISOPROPYL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.82: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 12:40
BLANK TEST 0.000 12:40
INTERNAL STANDARD VERIFIED 12:41
Xq = 0.122 (0.58%) 0.078 12:41
EXTERNAL STANDARD X[1] = 0.0777 (-0.0014) (0.0014) 0.000 12:42
BLANK TEST 0.000 XXX 12:42
SUBJECT SAMPLE X[1] = 0.1200 (-0.0276) (0.0005)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 06/11/2020
Time: 12:47:09

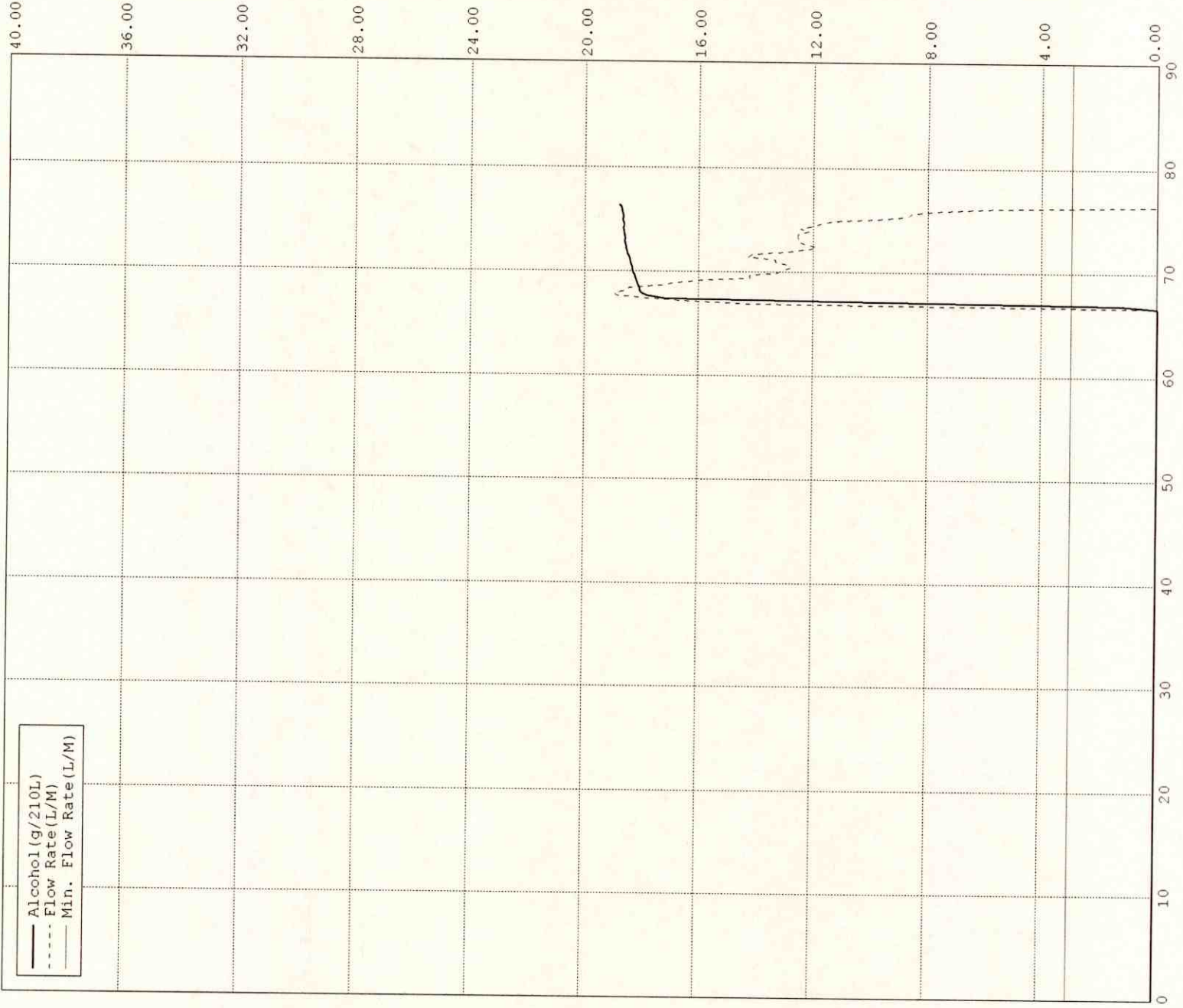
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
INTERFERENCE NEGATIVE CONTROL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.82: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	12:48
BLANK TEST	0.000	12:48
INTERNAL STANDARD	VERIFIED	12:48
$x_q = 0.123$ (0.87%)		
EXTERNAL STANDARD	0.078	12:48
$x[1] = 0.0777$ (-0.0013) (0.0012)		
BLANK TEST	0.000	12:49
SUBJECT SAMPLE (Vol=2.12L)	0.094	12:51
$x[1] = 0.0945$ (0.0004) (0.0005)		
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.078	12:52
$x[1] = 0.0775$ (-0.0012) (0.0009)		
BLANK TEST	0.000	12:53



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100351

Date: 06/11/2020
Time: 12:25:18

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

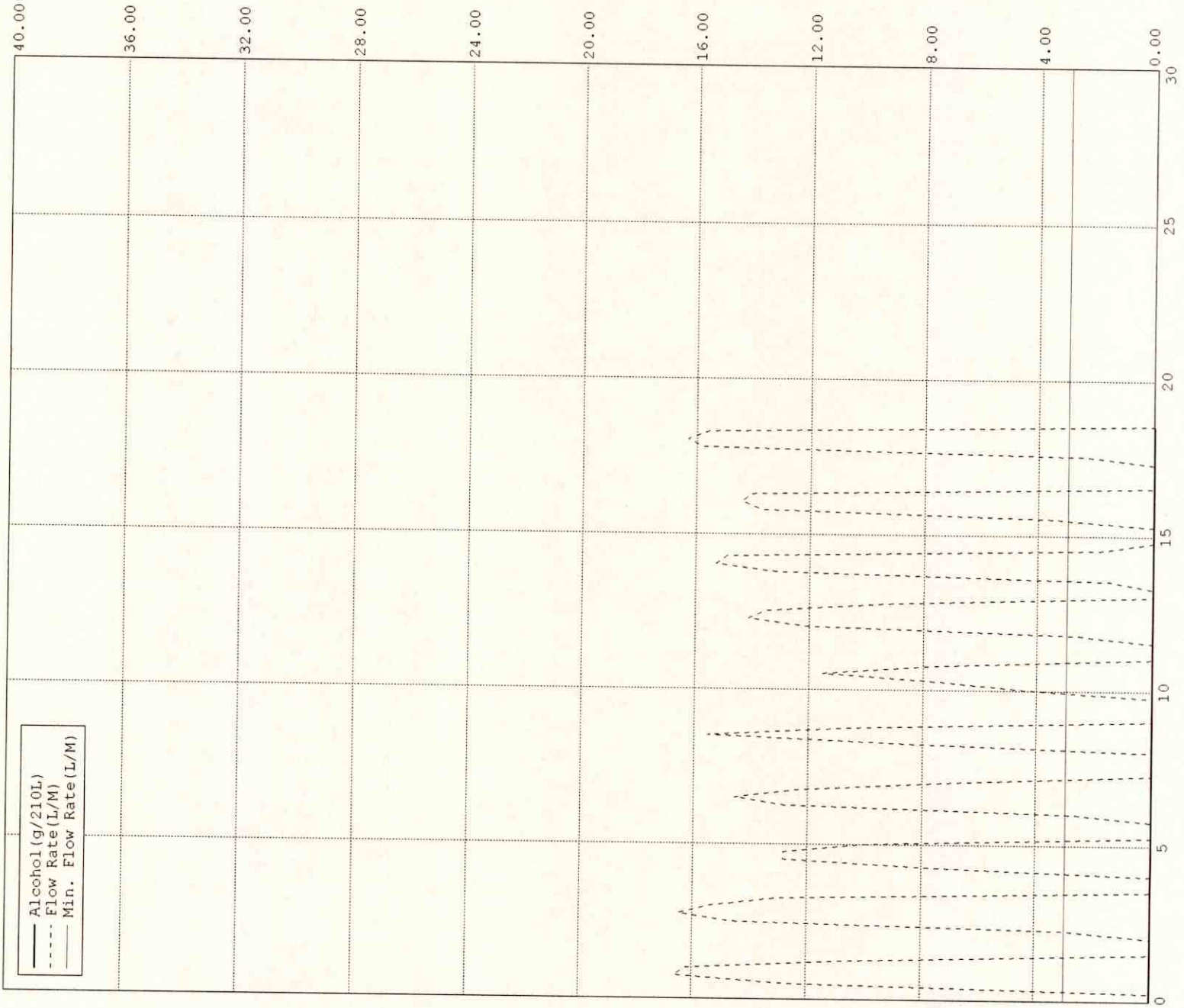
DEPT/AGENCY:
EXCEEDED ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 12:26
BLANK TEST 0.000 12:26
INTERNAL STANDARD VERIFIED 12:26
EXTERNAL STANDARD 0.078 12:26
BLANK TEST 0.000 12:27
SUBJECT SAMPLE XXX 12:28

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100351

Date: 06/11/2020
Time: 11:23:01

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

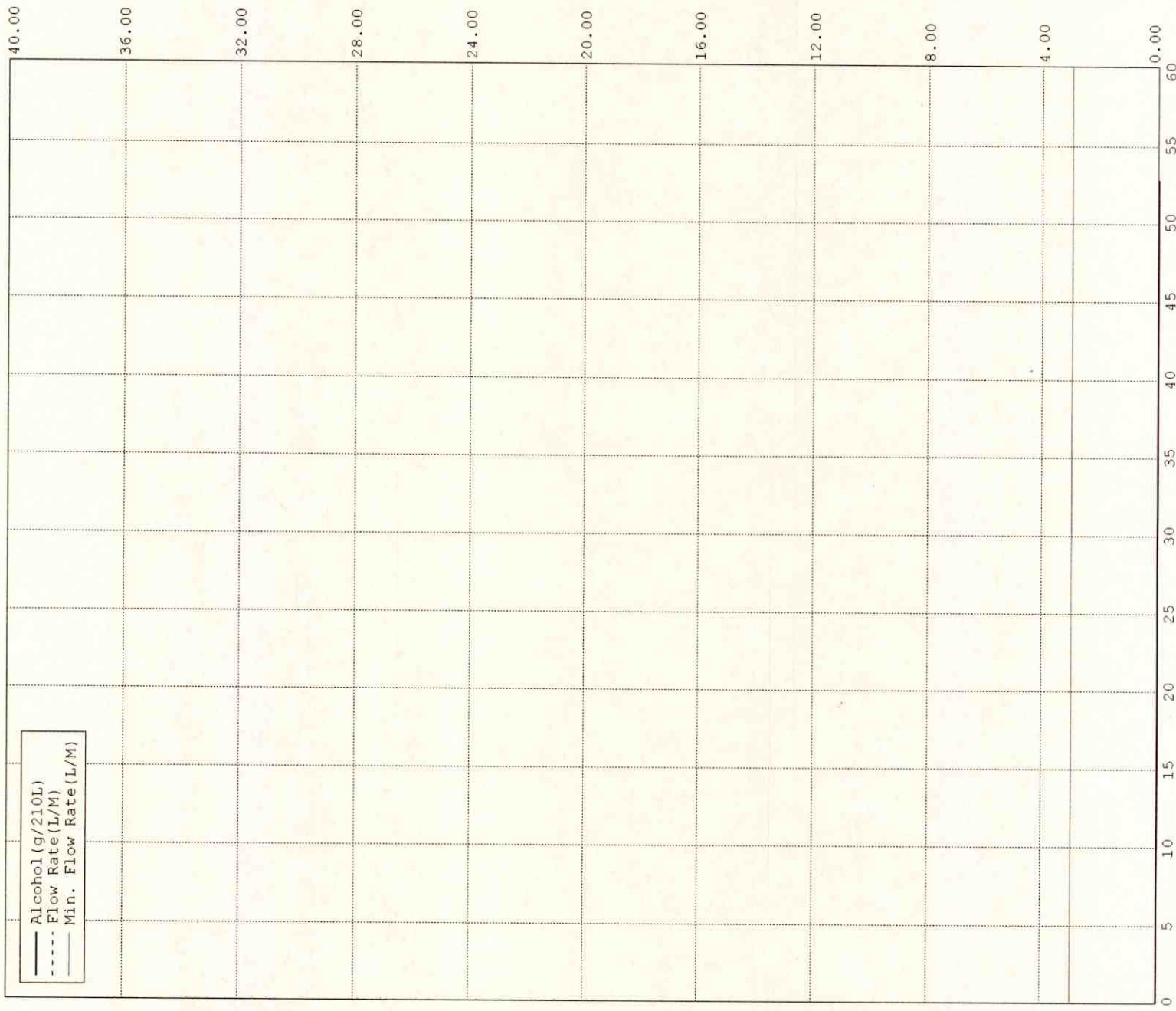

DEPT/AGENCY:
RFI
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK
BLANK TEST PASSED 11:23
INTERNAL STANDARD VERIFIED 11:24
EXTERNAL STANDARD 0.077 11:24
BLANK TEST 0.000 11:25

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 06/11/2020
Time: 13:11:20

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
NON DRINKING SUBJECT
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.82: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 13:13
BLANK TEST 0.000 13:13
INTERNAL STANDARD VERIFIED 13:13
EXTERNAL STANDARD 0.079 13:13
BLANK TEST 0.000 13:14
SUBJECT SAMPLE (Vol=1.96L) 0.000 13:15
BLANK TEST 0.000 13:15
EXTERNAL STANDARD 0.078 13:16
BLANK TEST 0.000 13:17

