

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 100384 Analyst Carlie Glaister Start Date 11/4/21

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-100401 Exp 1/4/23
- ii. 0.040g/210L Mnf Airgas Lot AG-111710 Exp 4/27/23
- iii. 0.080g/210L Mnf Airgas Lot AG-018102 Exp 6/29/22
- iv. 0.100g/210L Mnf Airgas Lot AG-108404 Exp 3/25/23
- v. 0.200g/210L Mnf Buth Lot 20510 Exp 12/31/22
Simulator S/N DR4161 Date Calibrated 6/16/21
- vi. 0.300g/210L Mnf Buth Lot 21030 Exp 2/2/23
Simulator S/N SD1202 Date Calibrated 6/15/21

Functional Tests (attached)

Incomplete

Invalid

Interference

- i. Acetone - Mnf Lifeloc Lot 21DP41158 Level 0.100 Exp 4/29/23
Simulator S/N SD1177 Date Calibrated 6/15/21
- ii. Isopropanol - Mnf Lifeloc Lot 21DP41158 Level 0.100 Exp 4/29/23
Simulator S/N SD1198 Date Calibrated 6/15/21
- iii. Negative Control - Mnf Lifeloc Lot 21DP41158 Level 0.100 Exp 4/29/23
Simulator S/N SP1088 Date Calibrated 6/15/21

Exceeded Attempts

RFI

Verify stylus is calibrated

Reset Options

Clear Memory

Remove tank prior to shut down

Verification of Calibration

Non-Drinking Subject Test (attached)

Upload

Add Linearity Data to Spreadsheet

End Date 11/4/2021

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 11/04/2021
Time: 09:44:28

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 = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.64 V PASSED
(0.98 V - 2.30 V)
Cooler Voltage = 1.78 V PASSED
(1.07 V - 2.49 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 528 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.1 in

PUMP INFO

Flow Rate = 4.749 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 = 0.090 0.58% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100384

Date: 11/04/2021
Time: 10:03 AM

Temperatures (°C)

Sample Cell: 48.7°C
Breath Tube: 47.7°C

Current Barometer 29.1 in
Volume (Ltr) 1.49

Settings

Lamp: 1.61 V
Bias: 80 V
Cooler: 1.83 V
Chopper: 528 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.020 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 10/29/2021
Time: 12:59:57

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.976941 0.800 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0065 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.0903 0.0500 <= Xq < 0.2000
a21 = 1.178742 1.050 <= a21 < 1.300
a31 = 0.530893 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100384

Date: 11/04/2021
Time: 10:05:57

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

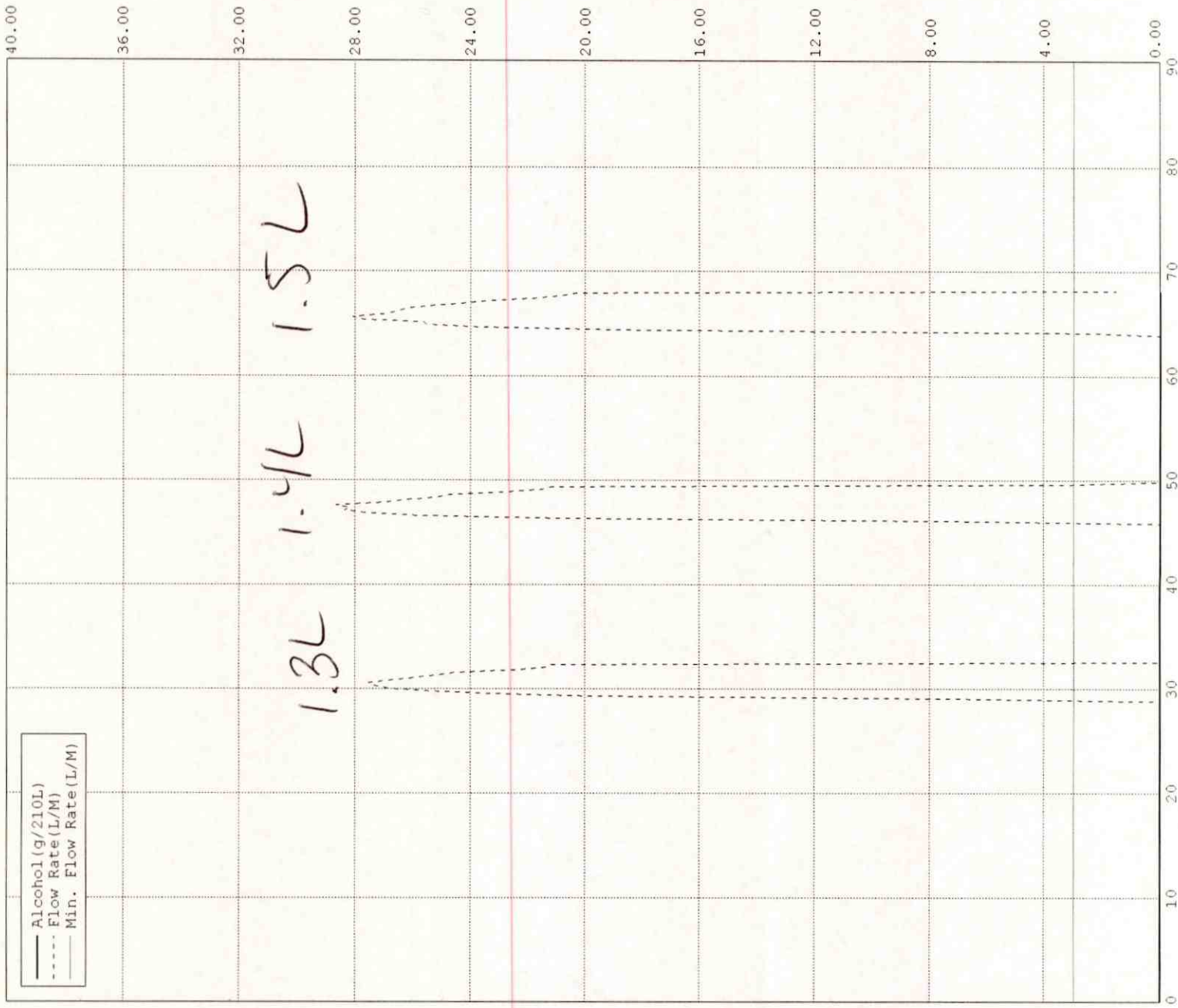
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

DEPT/AGENCY:
MINIMUM VOLUME TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	10:08
BLANK TEST	0.000	10:08
INTERNAL STANDARD	VERIFIED	10:08
EXTERNAL STANDARD	0.076	10:08
BLANK TEST	0.000	10:09
SUBJECT SAMPLE (Vol=1.52L)	0.000	10:10
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.077	10:11
BLANK TEST	0.000	10:12

OK



LINEARITY CHECK

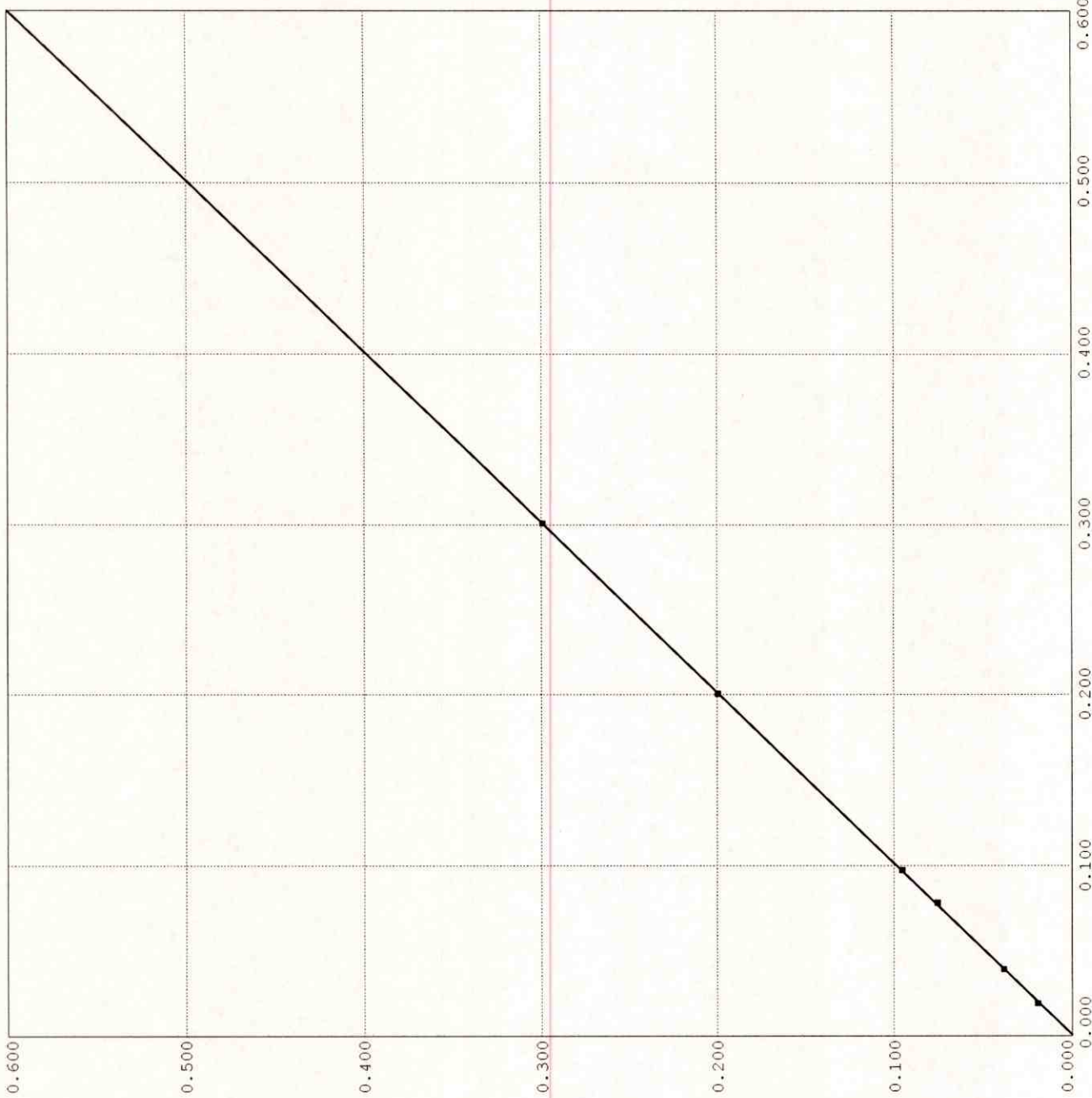
Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 11/04/2021
Time: 10:54:47

SUPERVISOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.019	0.0198	0.0004
0.039	0.0390	0.0000
0.078	0.0764	0.0005
0.097	0.0964	0.0005
0.200	0.2004	0.0005
0.300	0.3000	0.0000

SLOPE = 1.000594
R² = 0.999939



CKG

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100384

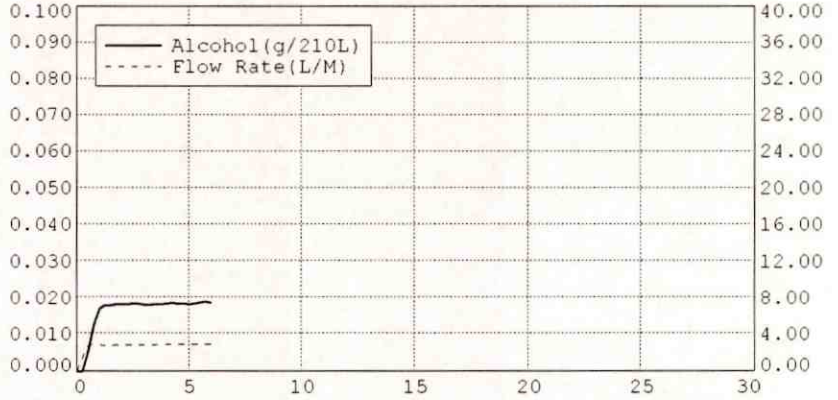
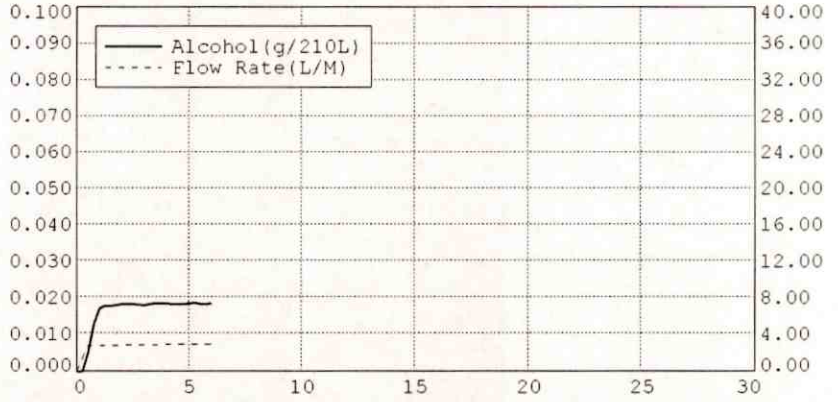
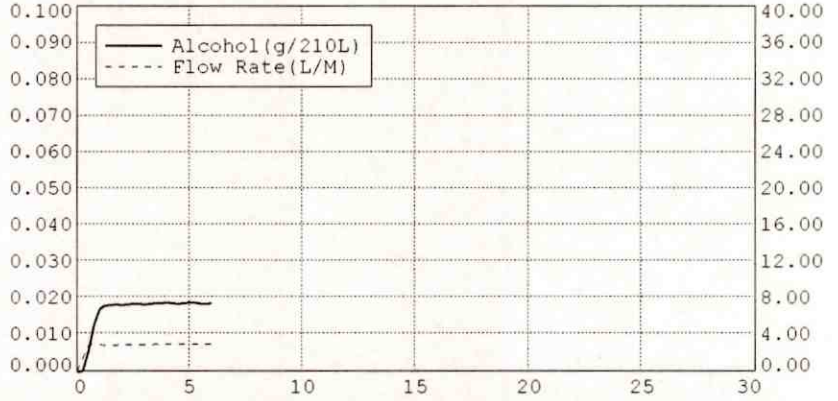
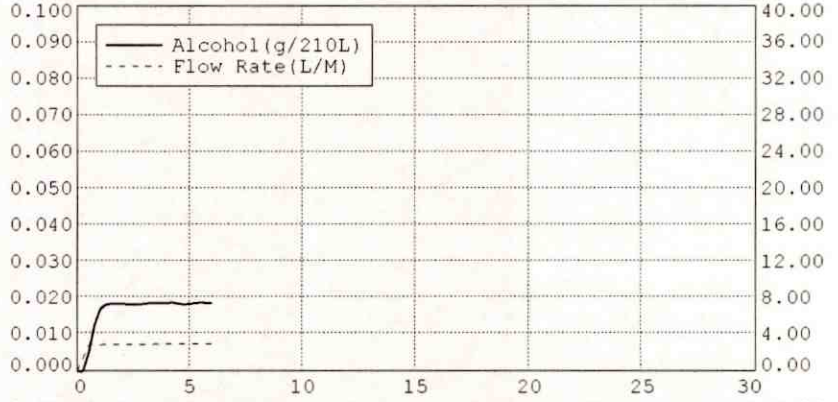
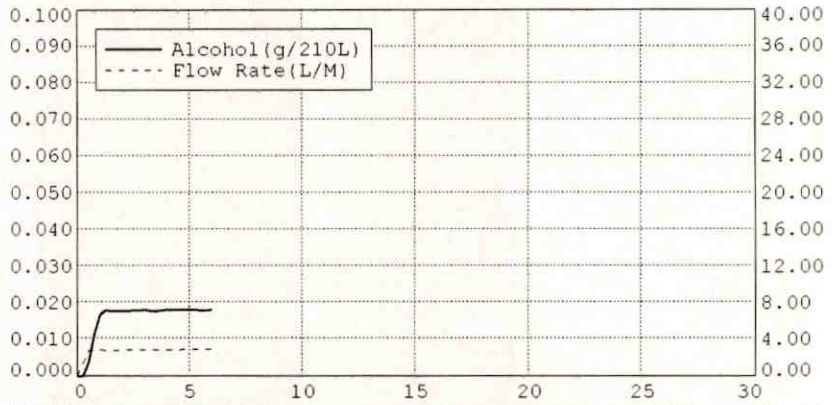
Date: 11/04/2021
Time: 10:54:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.10: 0.019
LOT #: AG100401
EXPIRATION: 01/04/2023
TANK PRESSURE: 1031 psi

BLANK TEST	0.000	10:56
INTERNAL STANDARD	VERIFIED	10:56
EXTERNAL STANDARD	0.019	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.020	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.020	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.020	10:59
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.020	11:01
BLANK TEST	0.000	11:01

Average = 0.0198
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100384

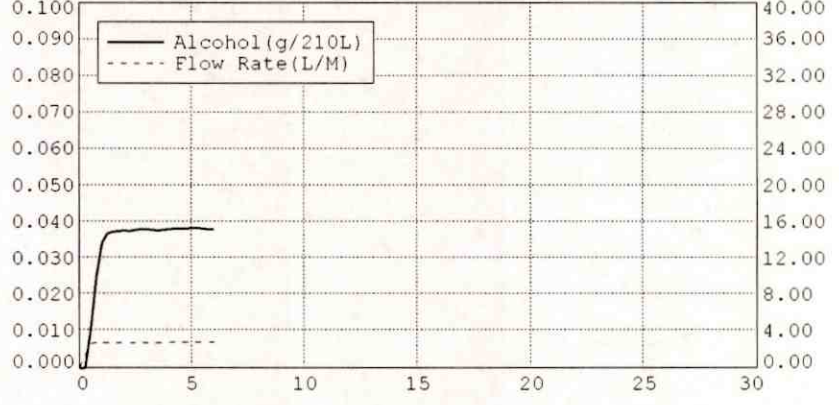
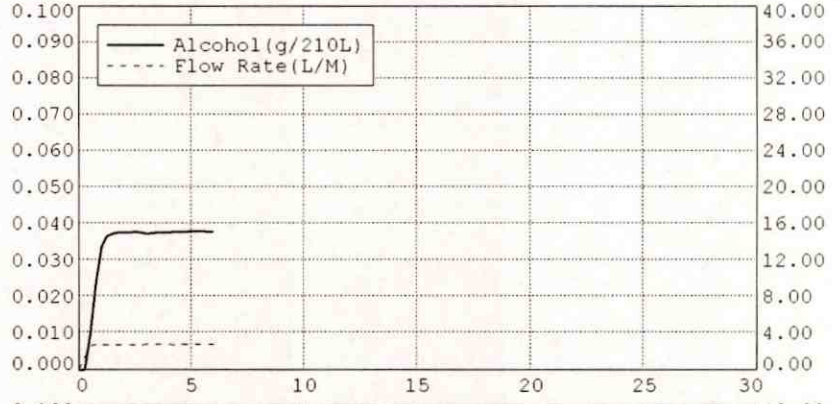
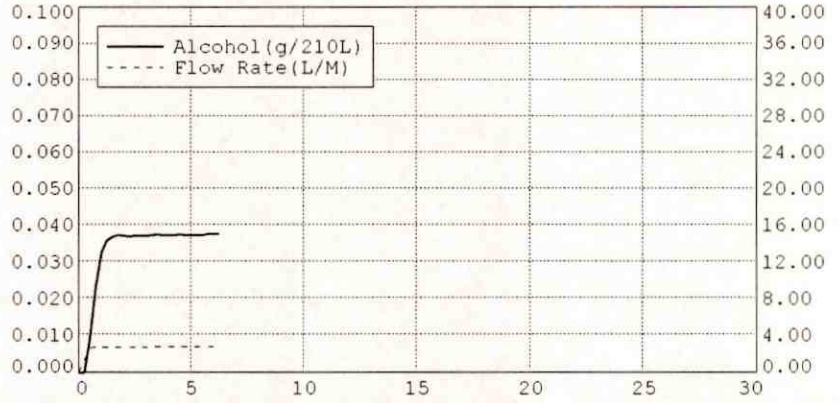
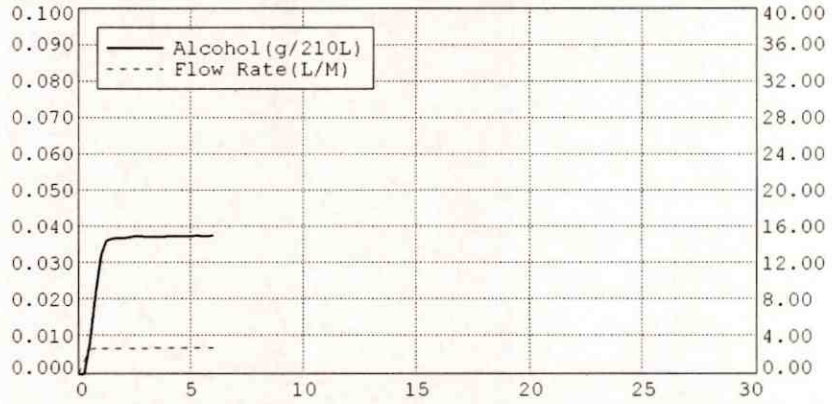
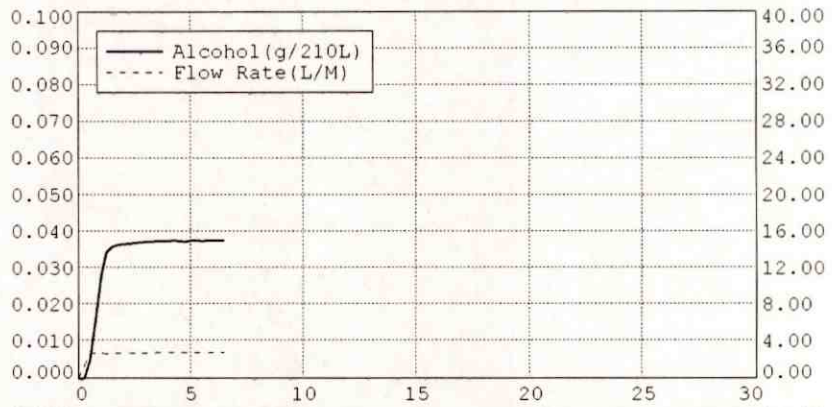
Date: 11/04/2021
 Time: 11:03:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.09: 0.039
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 702 psi

BLANK TEST	0.000	11:04
INTERNAL STANDARD	VERIFIED	11:04
EXTERNAL STANDARD	0.039	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.039	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.039	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.039	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.039	11:09
BLANK TEST	0.000	11:10

Average = 0.0390
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100384

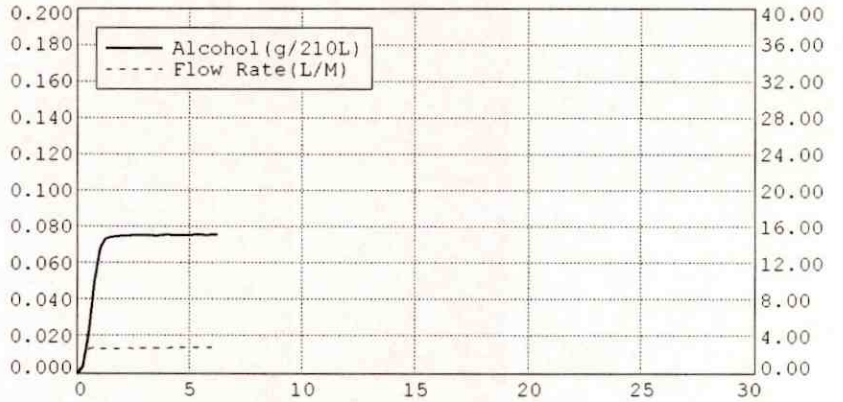
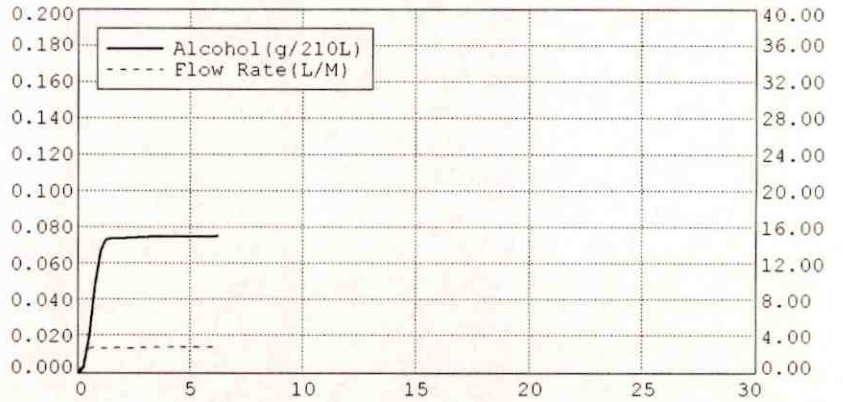
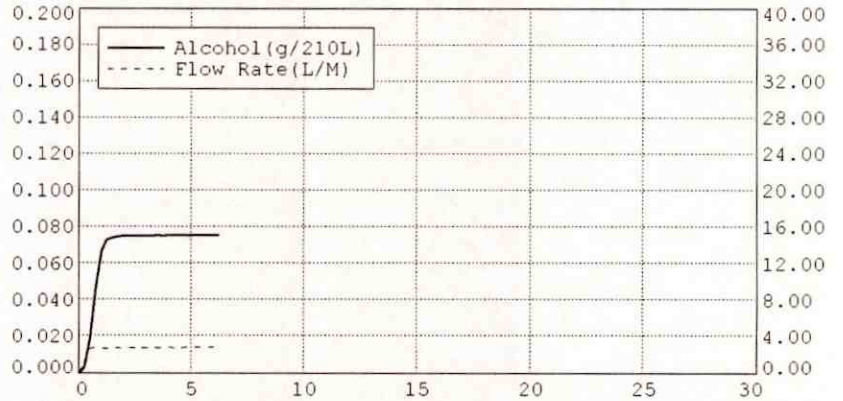
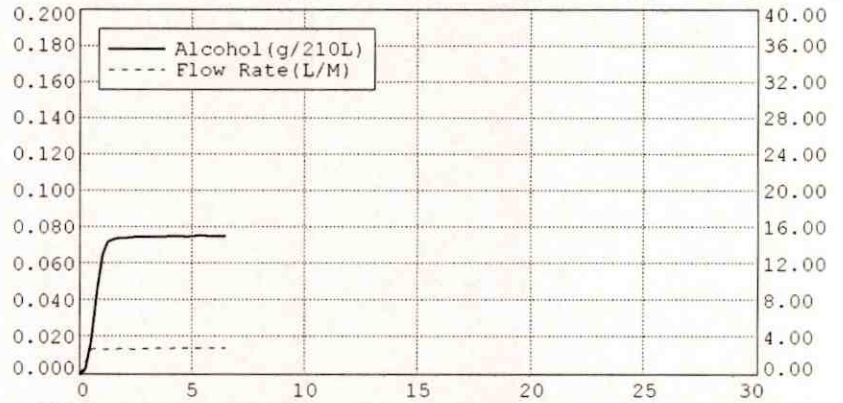
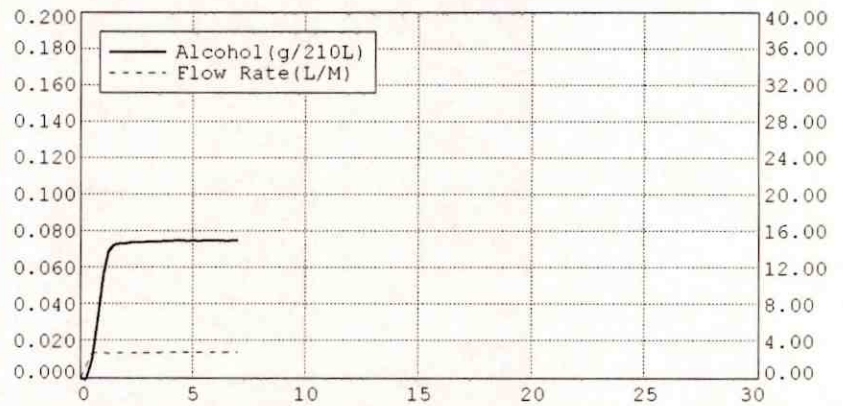
Date: 11/04/2021
 Time: 11:11:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.08: 0.078
 LOT #: AG018102
 EXPIRATION: 06/29/2022
 TANK PRESSURE: 869 psi

BLANK TEST	0.000	11:12
INTERNAL STANDARD	VERIFIED	11:13
EXTERNAL STANDARD	0.076	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.076	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.077	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.076	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.077	11:17
BLANK TEST	0.000	11:18

Average = 0.0764
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100384

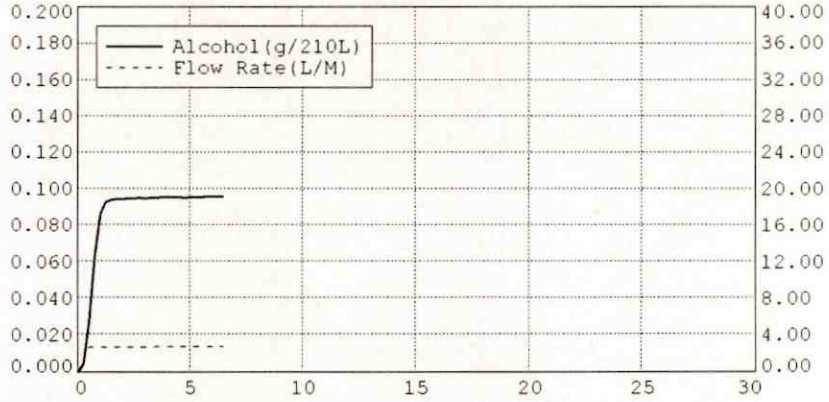
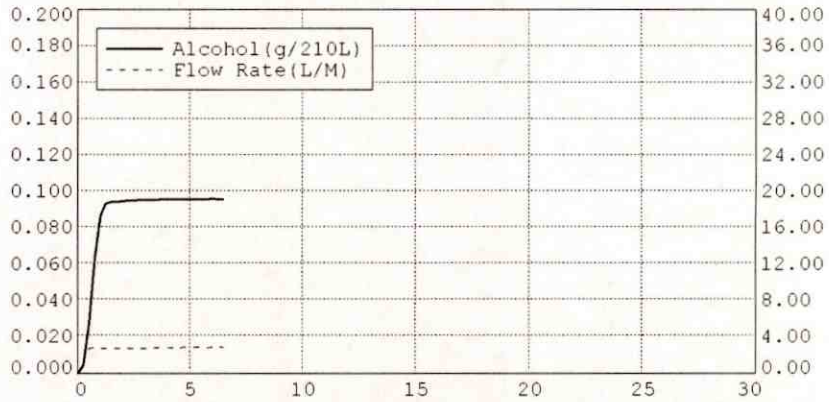
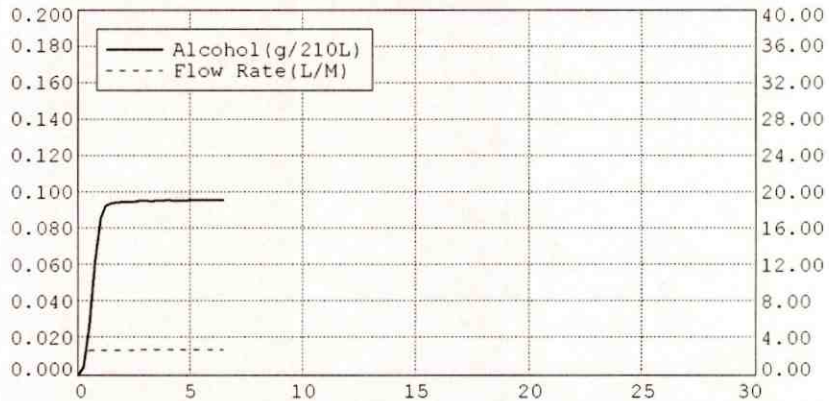
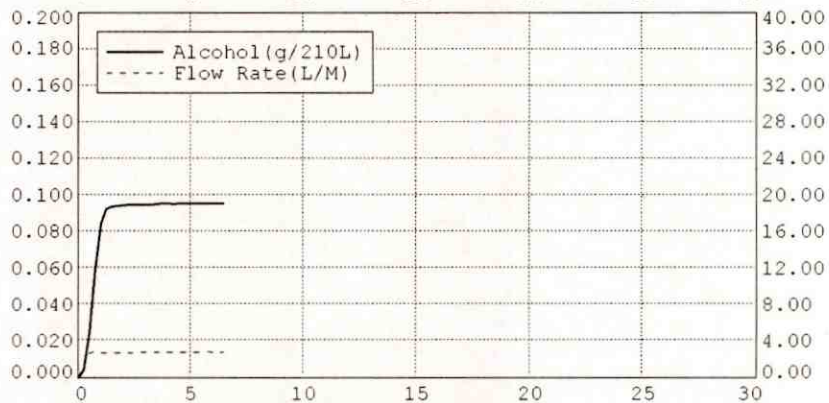
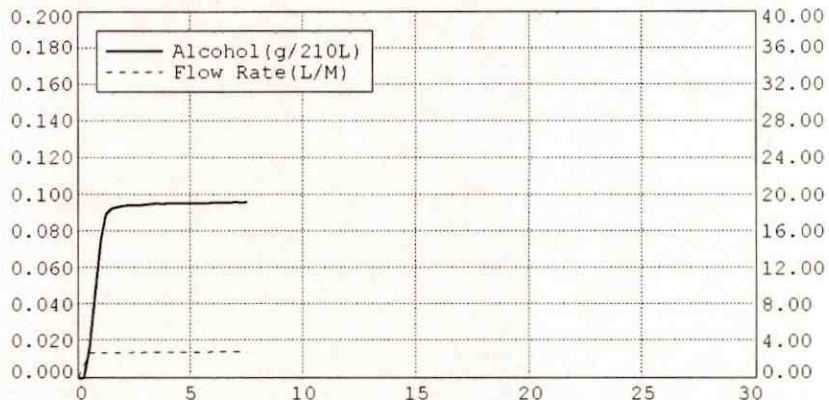
Date: 11/04/2021
 Time: 11:21:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.08: 0.097
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 802 psi

BLANK TEST	0.000	11:23
INTERNAL STANDARD	VERIFIED	11:23
EXTERNAL STANDARD	0.097	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.096	11:24
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.097	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.096	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.096	11:27
BLANK TEST	0.000	11:28

Average = 0.0964
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100384

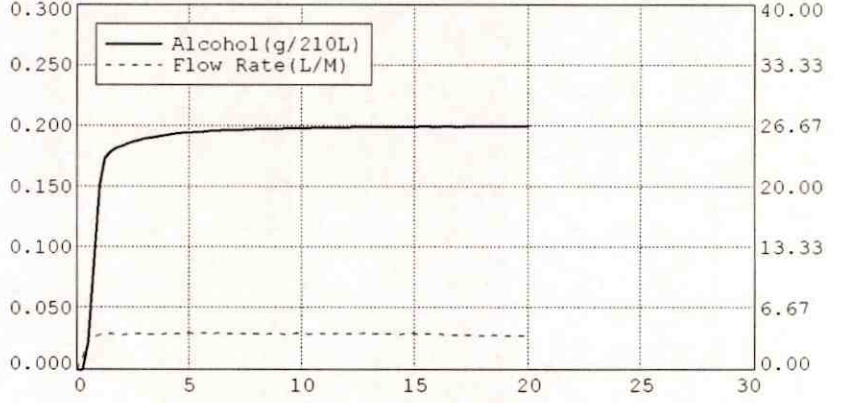
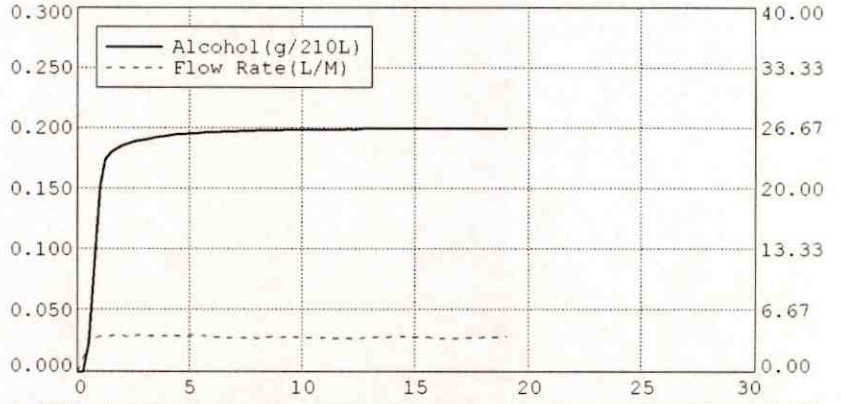
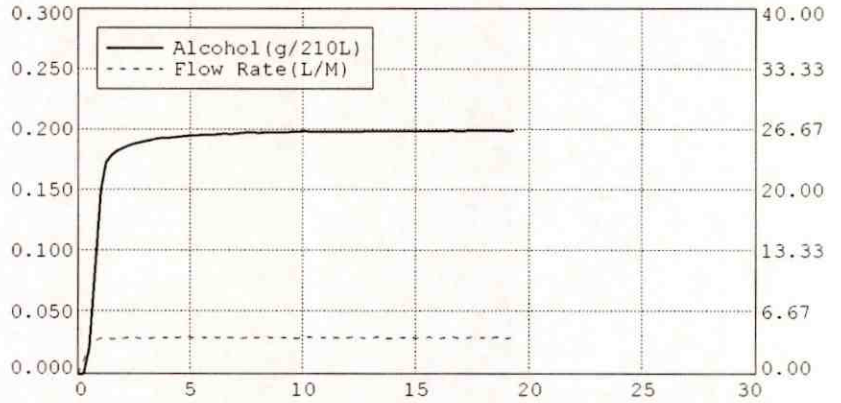
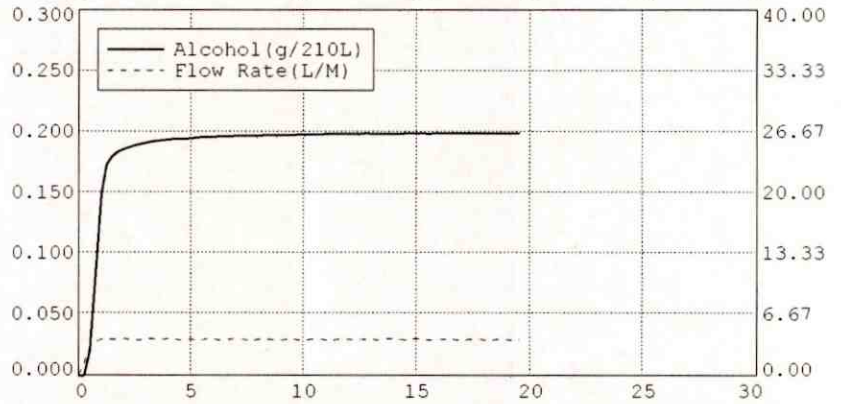
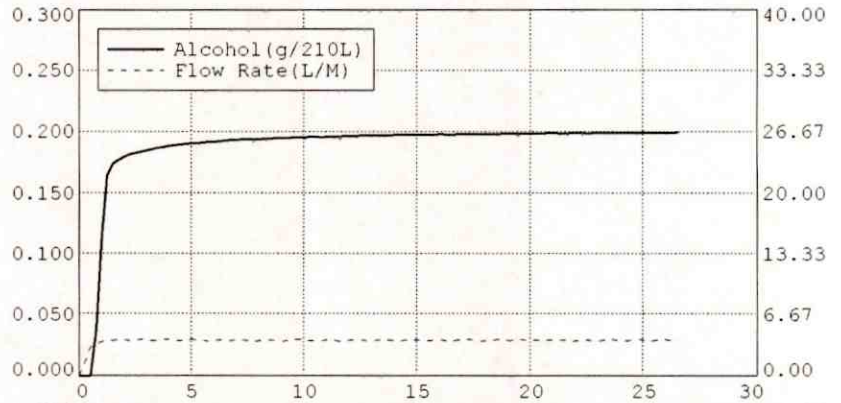
Date: 11/04/2021
 Time: 11:34:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 20510
 EXPIRATION: ~~12/02/2022~~ *12/03/2022 ckg 11/17/2021

BLANK TEST	0.000	11:35
INTERNAL STANDARD	VERIFIED	11:35
EXTERNAL STANDARD	0.200	11:36
BLANK TEST	0.000	11:37
EXTERNAL STANDARD	0.200	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.200	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.201	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.201	11:41
BLANK TEST	0.000	11:42

Average = 0.2004
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

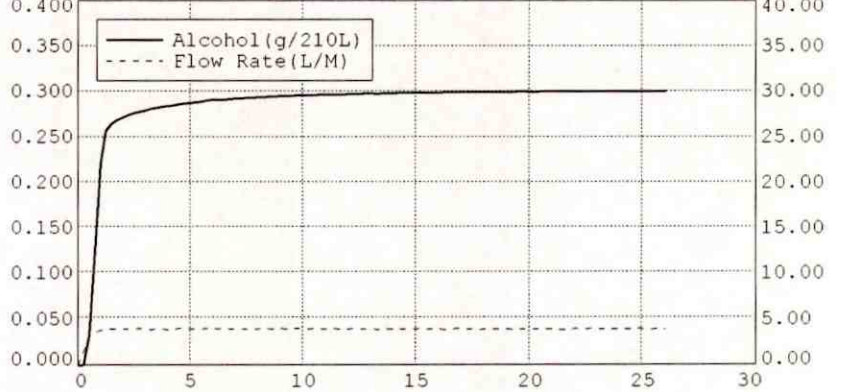
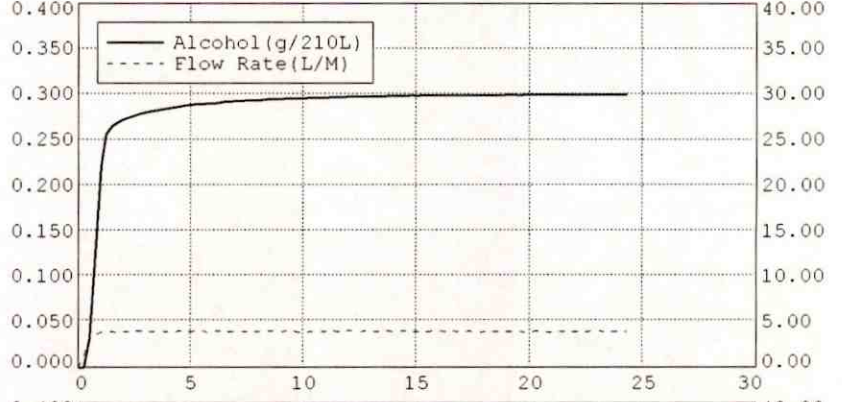
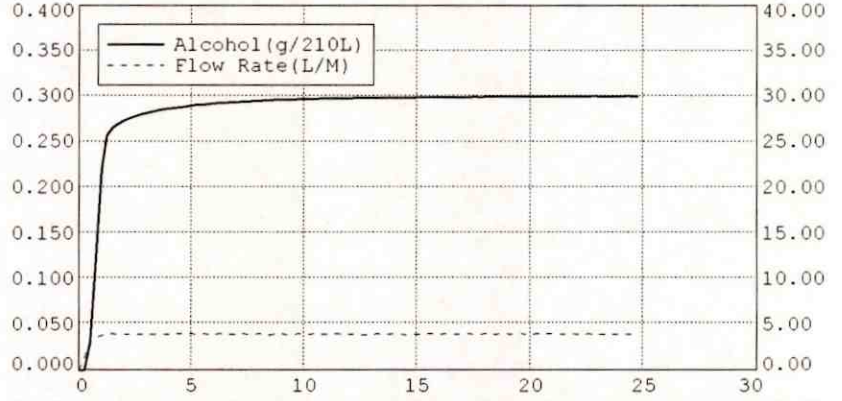
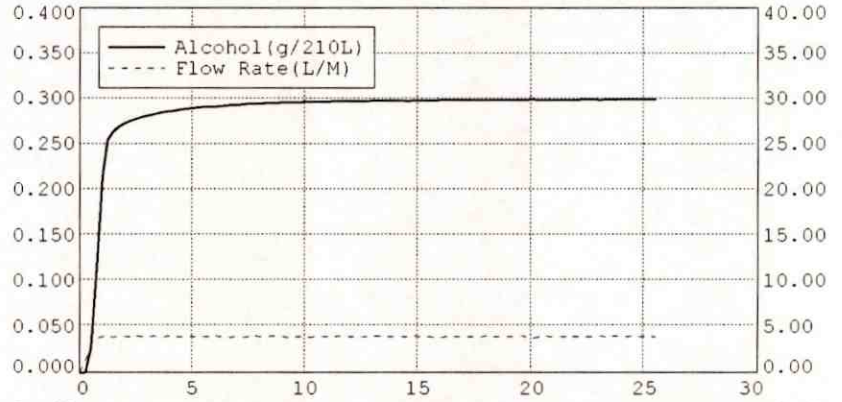
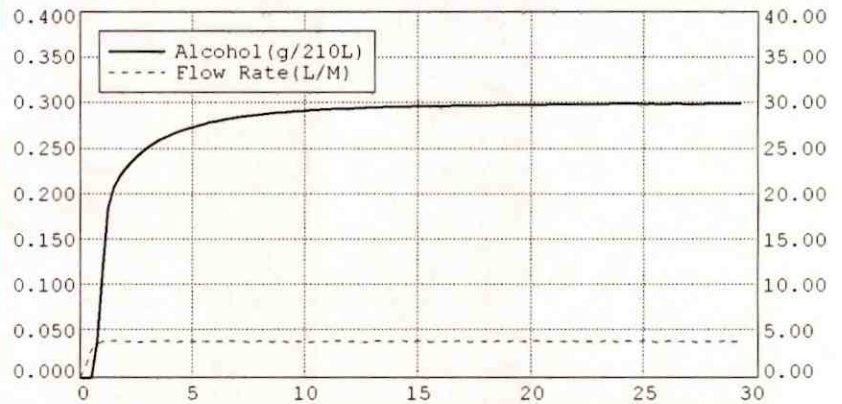
Alaska Department of Public Safety
 DATAMASTER dmt: 100384

Date: 11/04/2021
 Time: 11:45:09

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 21030
 EXPIRATION: 02/02/2023

BLANK TEST	0.000	11:46
INTERNAL STANDARD	VERIFIED	11:46
EXTERNAL STANDARD	0.300	11:47
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.300	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.300	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.300	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.300	11:52
BLANK TEST	0.000	11:53

Average = 0.3000
 Std Dev = 0.0000



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 11/04/2021
Time: 12:00:04

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

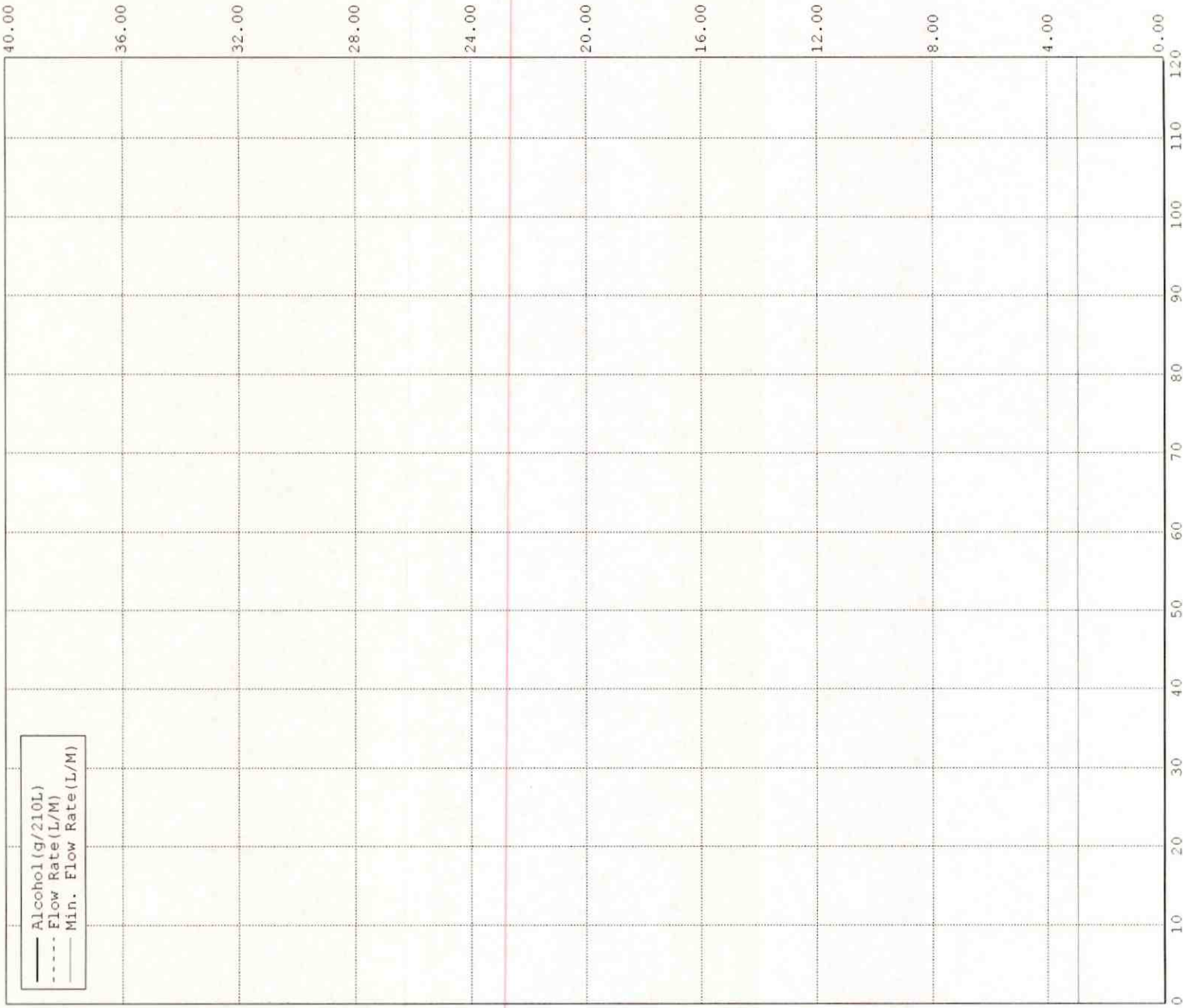
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.11: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 12:01
BLANK TEST 0.000 12:01
INTERNAL STANDARD VERIFIED 12:01
EXTERNAL STANDARD 0.076 12:01
BLANK TEST 0.000 12:02
SUBJECT SAMPLE INCOMPLETE 12:04

CRG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 11/04/2021
Time: 13:19:39

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

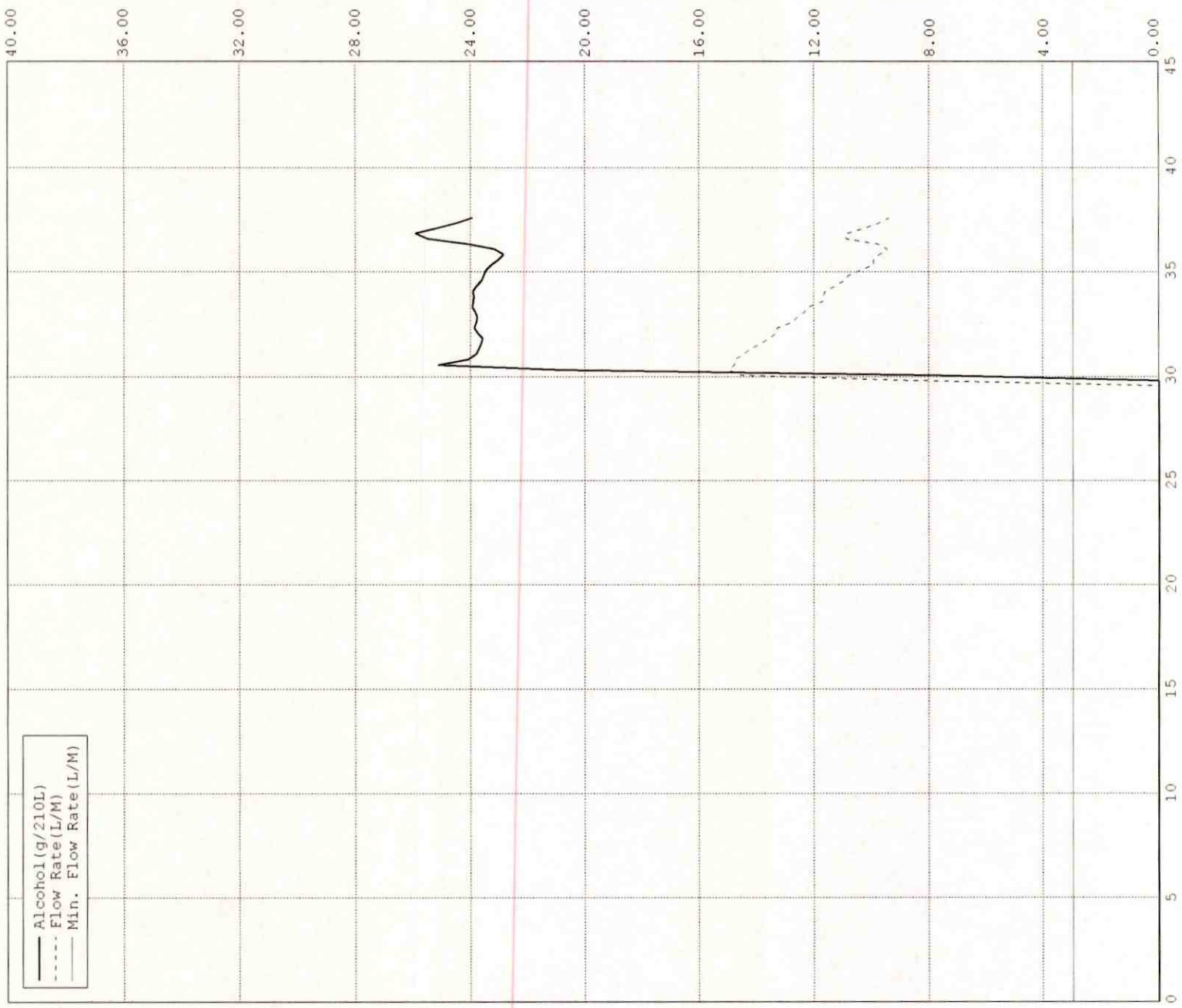
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:21
BLANK TEST 0.000 13:21
INTERNAL STANDARD VERIFIED 13:21
EXTERNAL STANDARD 0.076 13:21
BLANK TEST 0.000 13:22
SUBJECT SAMPLE INVALID 13:23

CRG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 11/04/2021
Time: 13:47:49

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

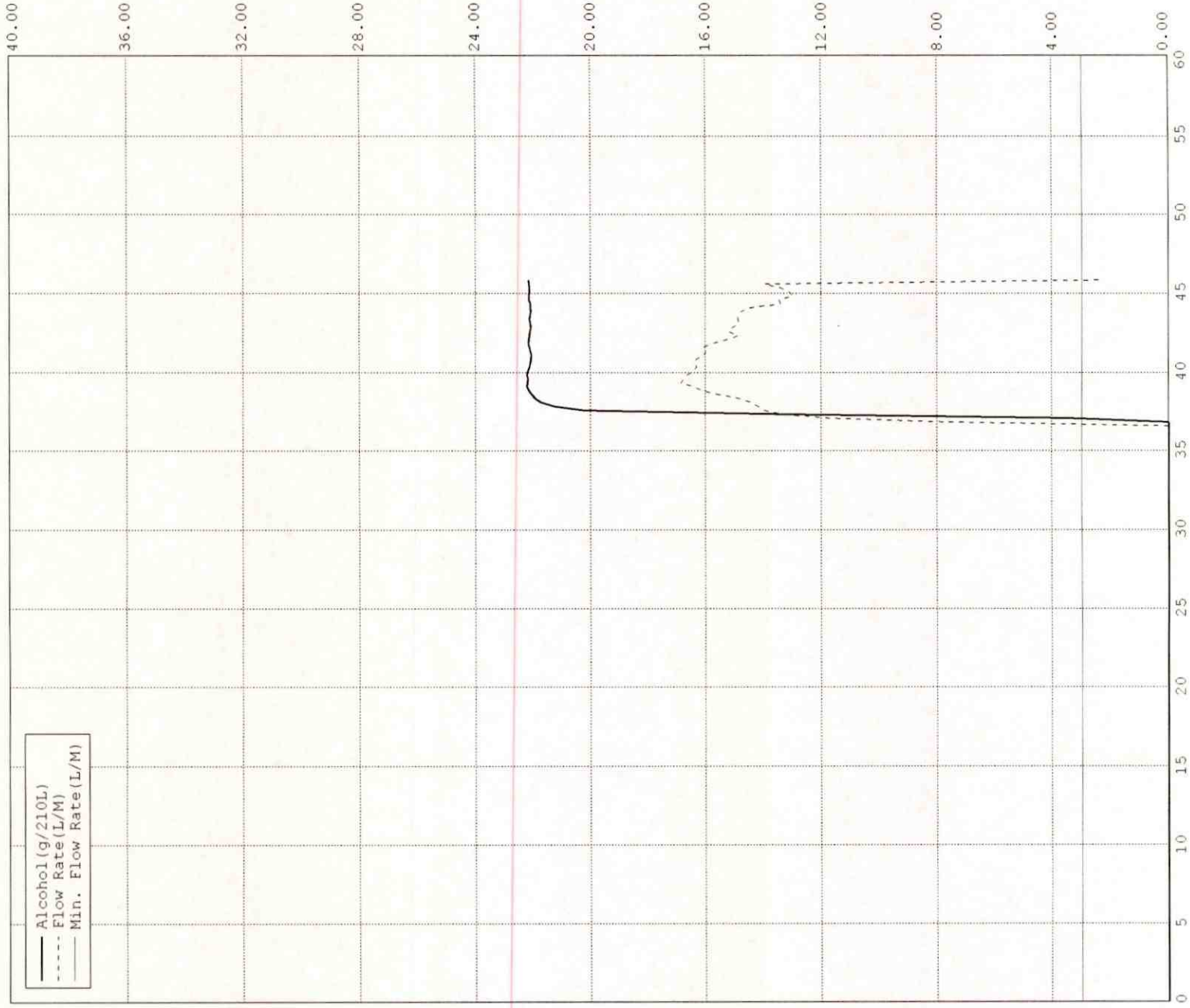
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:49
BLANK TEST 0.000 13:49
INTERNAL STANDARD VERIFIED 13:49
Xq = 0.090 (0.87%)
EXTERNAL STANDARD 0.076 13:50
X[1] = 0.0763 (-0.0017) (0.0026)
BLANK TEST 0.000 13:51
SUBJECT SAMPLE XXX 13:51
X[1] = 0.1117 (-0.0170) (0.0020)

Interference Detected

Filter 2 Average: -0.0014
Filter 3 Average: 0.0025
VUG- 11/4/21

OR G



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 11/04/2021
Time: 13:56:09

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

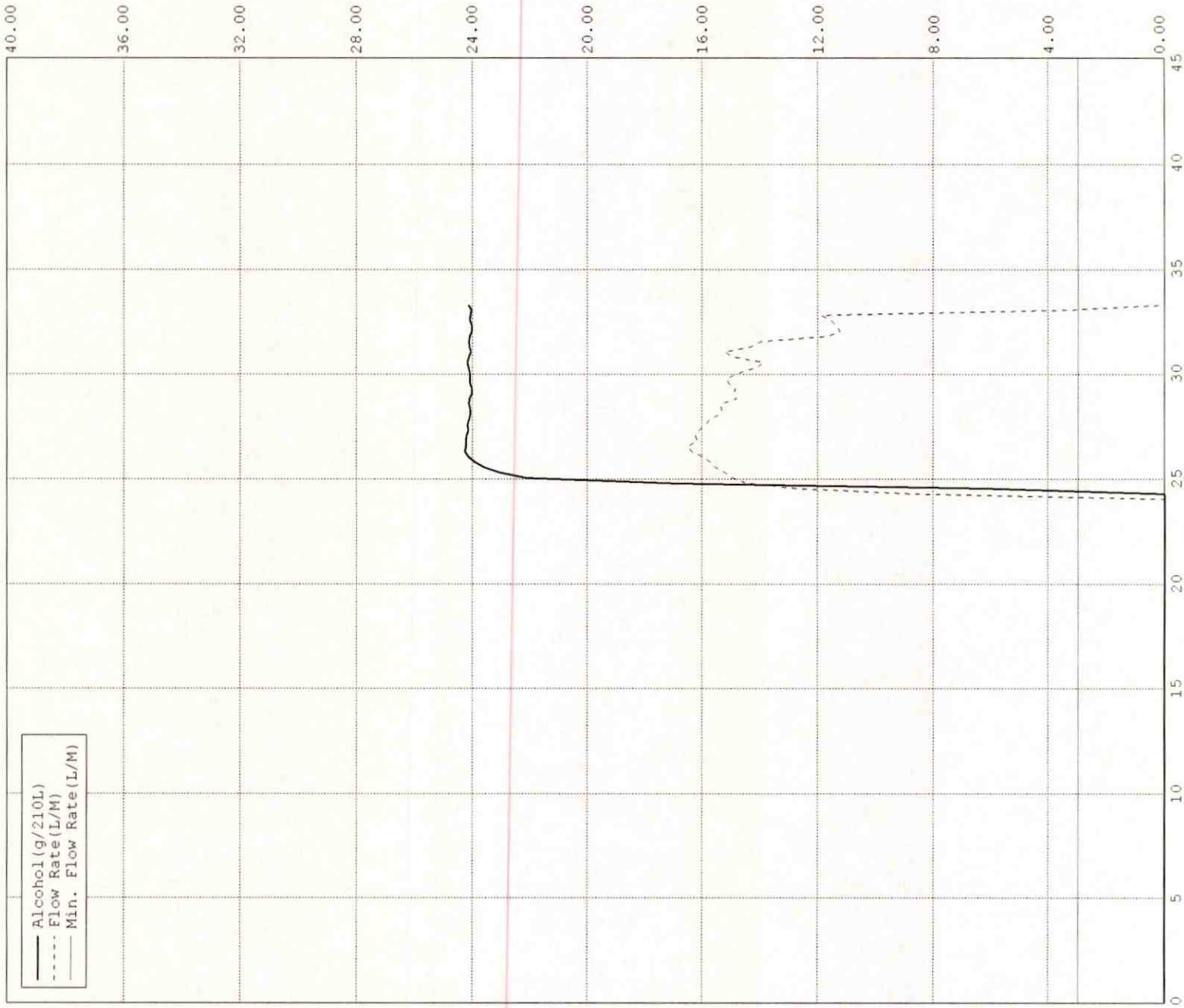
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.10: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	13:57
BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:57
$x_q = 0.089$ (0.97%)		
EXTERNAL STANDARD	0.076	13:57
$x[1] = 0.0763$ (-0.0005)	(0.0023)	
BLANK TEST	0.000	13:58
SUBJECT SAMPLE	XXX	13:59
$X[1] = 0.1213$ (-0.0306)	(0.0014)	

Interference Detected

OXG



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100384

Date: 11/04/2021

Time: 14:02:20

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

CARLIE GLAISTER

OPERATOR'S #: 10436

DEPT/AGENCY:

INTERFERENCE NEGATIVE

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

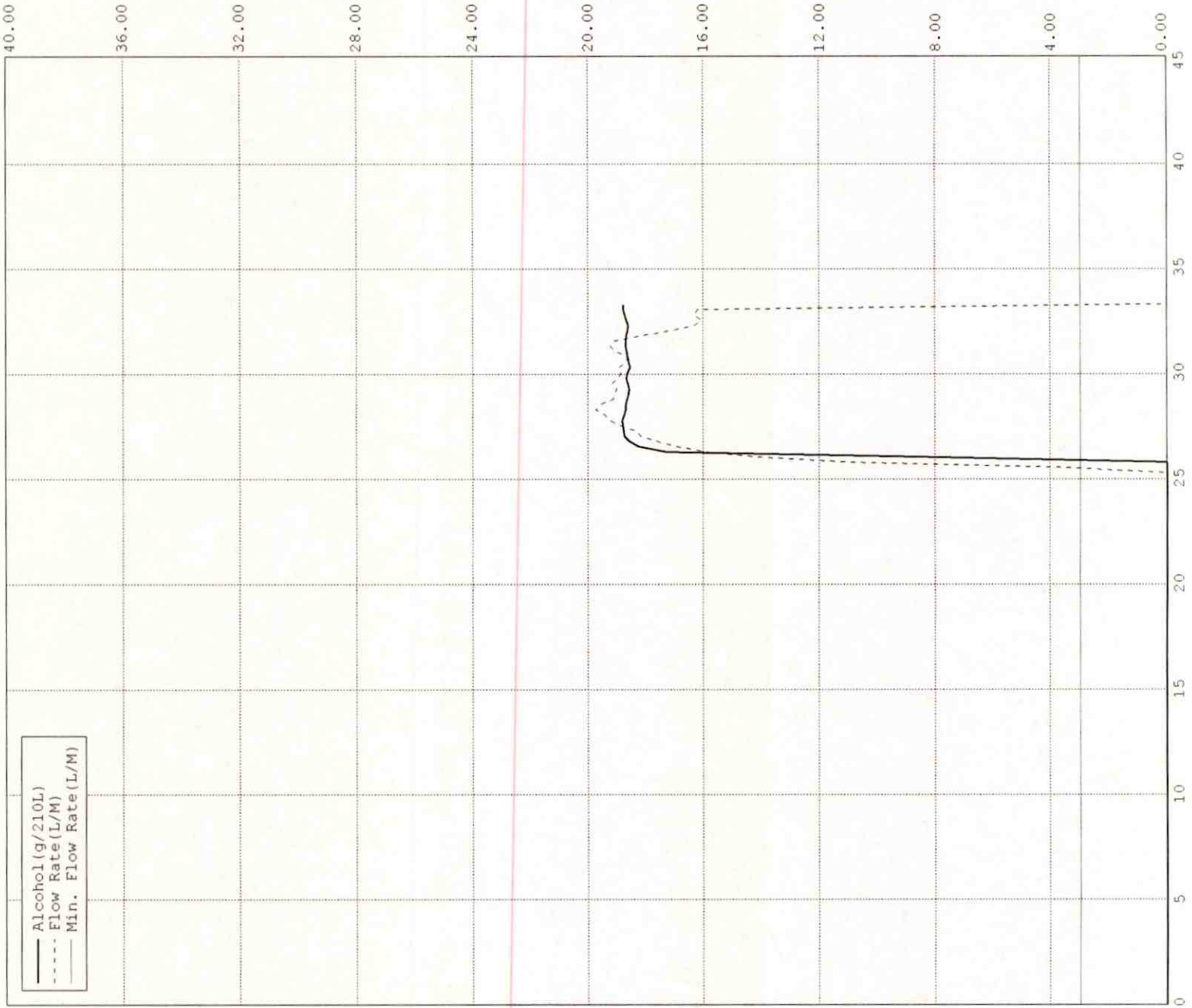
TARGET AT 29.09: 0.078

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:04
BLANK TEST	0.000	14:04
INTERNAL STANDARD	VERIFIED	14:04
Xq = 0.089 (1.64%)		
EXTERNAL STANDARD	0.076	14:04
X[1] = 0.0759 (-0.0025)	(0.0025)	
BLANK TEST	0.000	14:05
SUBJECT SAMPLE (Vol=2.25L)	0.094	14:06
X[1] = 0.0945 (-0.0017)	(0.0005)	
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.077	14:07
X[1] = 0.0765 (-0.0008)	(0.0027)	
BLANK TEST	0.000	14:08

OKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 11/04/2021
Time: 12:06:57

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

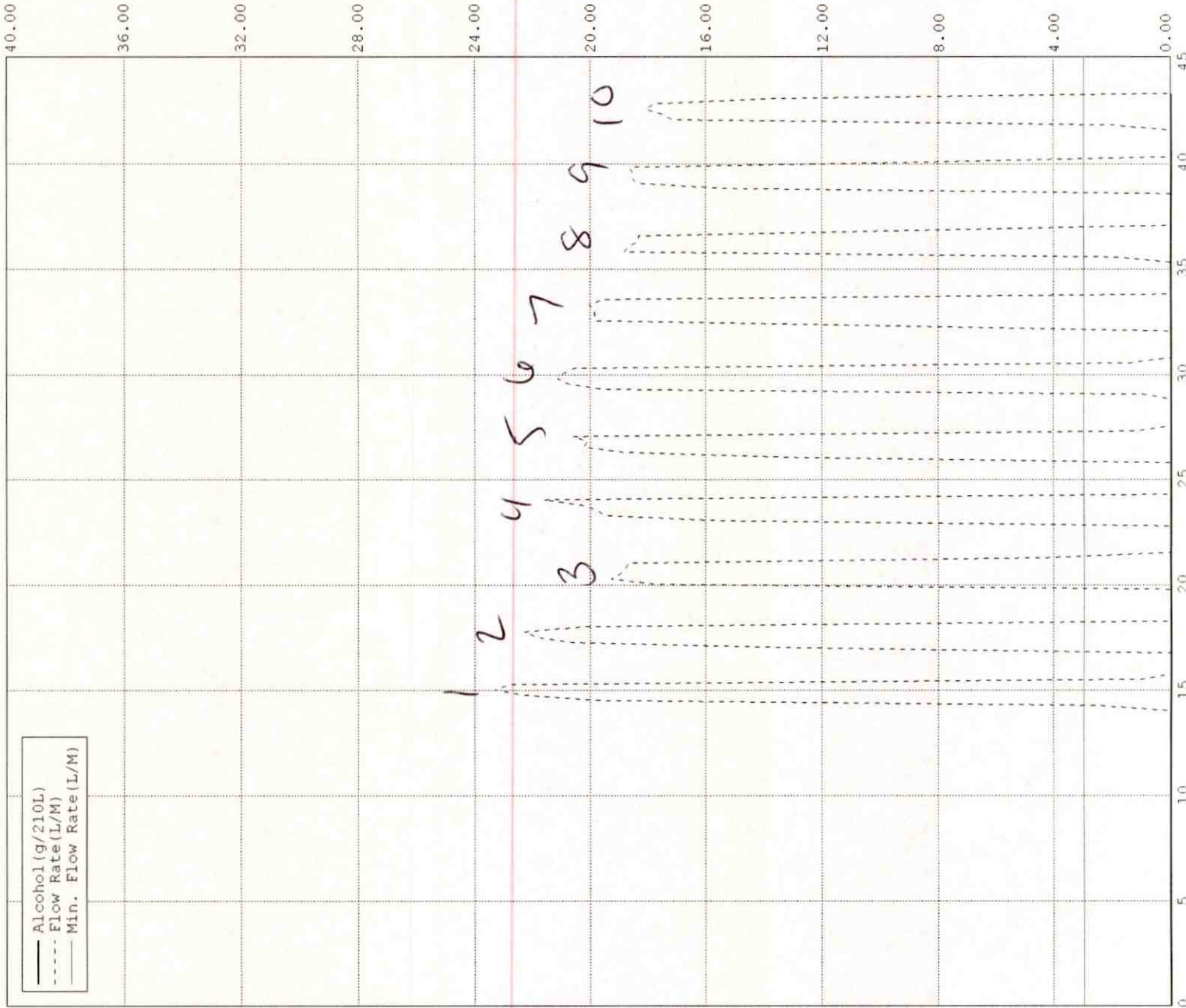
DEPT/AGENCY:
MAXIMUM ATTEMPTS EXCEEDED
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.10: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 12:08
BLANK TEST 0.000 12:08
INTERNAL STANDARD VERIFIED 12:08
EXTERNAL STANDARD 0.077 12:08
BLANK TEST 0.000 12:09
SUBJECT SAMPLE XXX 12:10

Maximum Attempts Exceeded

CKB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 11/04/2021
Time: 13:26:13

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

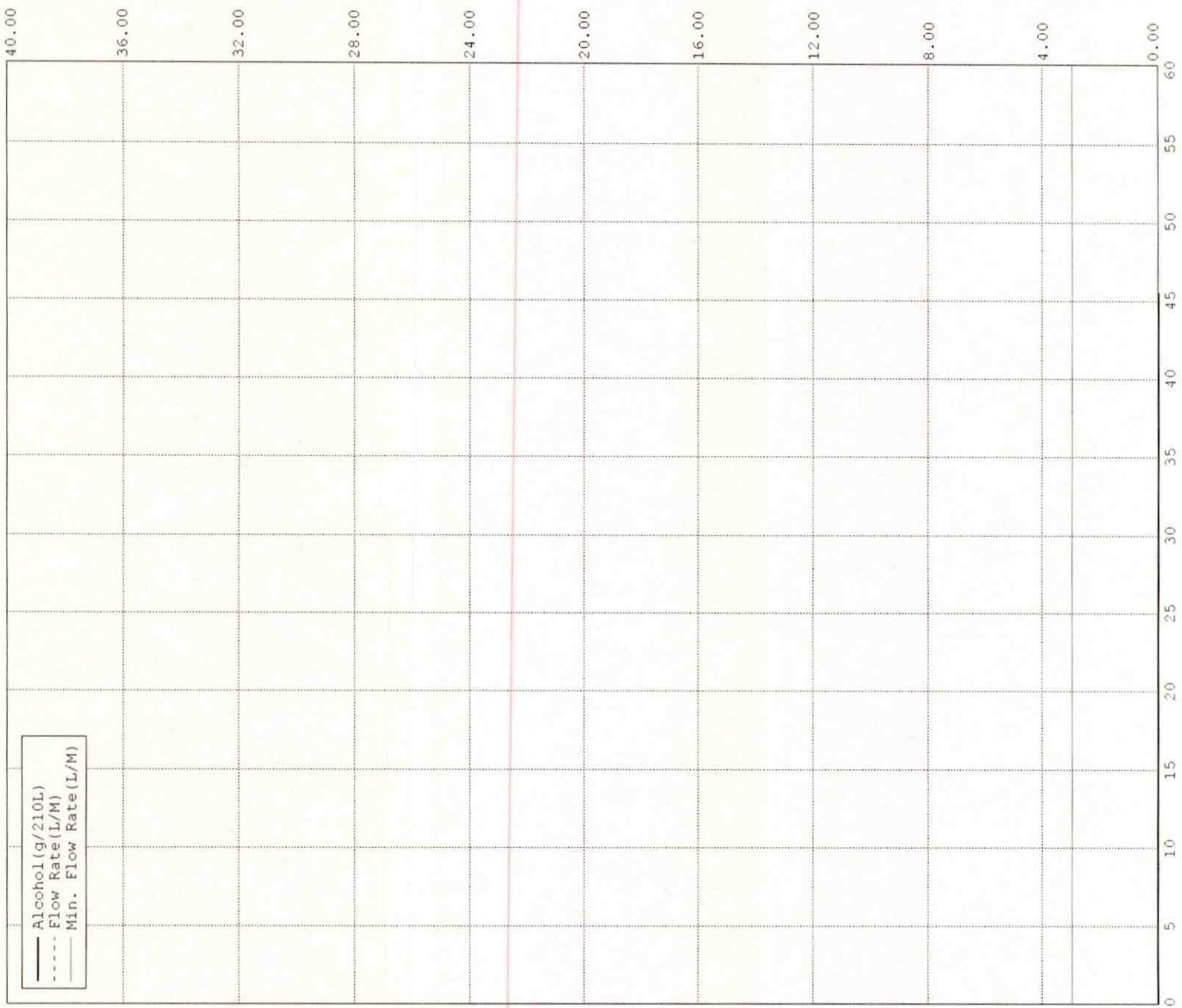
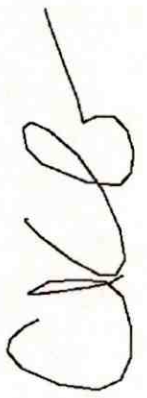
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.11: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:27
BLANK TEST 0.000 13:27
INTERNAL STANDARD VERIFIED 13:28
EXTERNAL STANDARD 0.076 13:28
BLANK TEST 0.000 13:29

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 11/04/2021
Time: 14:39:25

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:40
BLANK TEST	0.000	14:40
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.077	14:41
BLANK TEST	0.000	14:42
SUBJECT SAMPLE (Vol=2.90L)	0.000	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.077	14:43
BLANK TEST	0.000	14:44

CVG

