

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 100402 Analyst C. O'Bryant
Carlie Glaister Start Date 10/15/2021

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 01/04/2023

ii. 0.040g/210L Mnf Airgas Lot AG-111710 Exp 04/27/2023

iii. 0.080g/210L Mnf Airgas Lot AG-018102 Exp 06/29/2022

iv. 0.100g/210L Mnf Airgas Lot AG-108404 Exp 03/25/2023

v. 0.200g/210L Mnf Guth Lot 20510 Exp 12/03/2022

Simulator S/N DR4161 Date Calibrated 06/16/2021

vi. 0.300g/210L Mnf Guth Lot 21030 Exp 02/02/2023

Simulator S/N SD1202 Date Calibrated 06/15/2021

Functional Tests (attached)

Incomplete

Invalid

Interference

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

Simulator S/N SD1177 Date Calibrated 06/15/2021

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

Simulator S/N SD1198 Date Calibrated 06/15/2021

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

Simulator S/N SD1088 Date Calibrated 06/15/2021

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 10/15/2021

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 10/15/2021
Time: 08:57:23

VERSIONS

DMT: 3.02
PIC: 3.02
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 = 1.88 V PASSED
(1.13 V - 2.63 V)
Cooler Voltage = 1.87 V PASSED
(1.12 V - 2.62 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 521 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 5.087 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 = 0.077 0.91% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100402

Date: 10/15/2021
Time: 9:12 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 48.1°C

Current Barometer 29.3 in
Volume (Ltr) 1.51

Settings

Lamp: 1.82 V
Bias: 80 V
Cooler: 1.89 V
Chopper: 520 Hz

Voltages (V)

Flow: 1.04 V
Detector: -0.016 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 10/12/2021
Time: 14:30:02

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.953874 0.800 <= CAL < 1.200
b1 = 0.0010 0.0000 <= b1 < 0.0040
b2 = 0.0066 0.0010 <= b2 < 0.0100
b3 = 0.0008 0.0000 <= b3 < 0.0040
Xq = 0.0759 0.0500 <= Xq < 0.2000
a21 = 1.176229 1.050 <= a21 < 1.300
a31 = 0.376163 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100402

Date: 10/15/2021
Time: 09:17:10

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

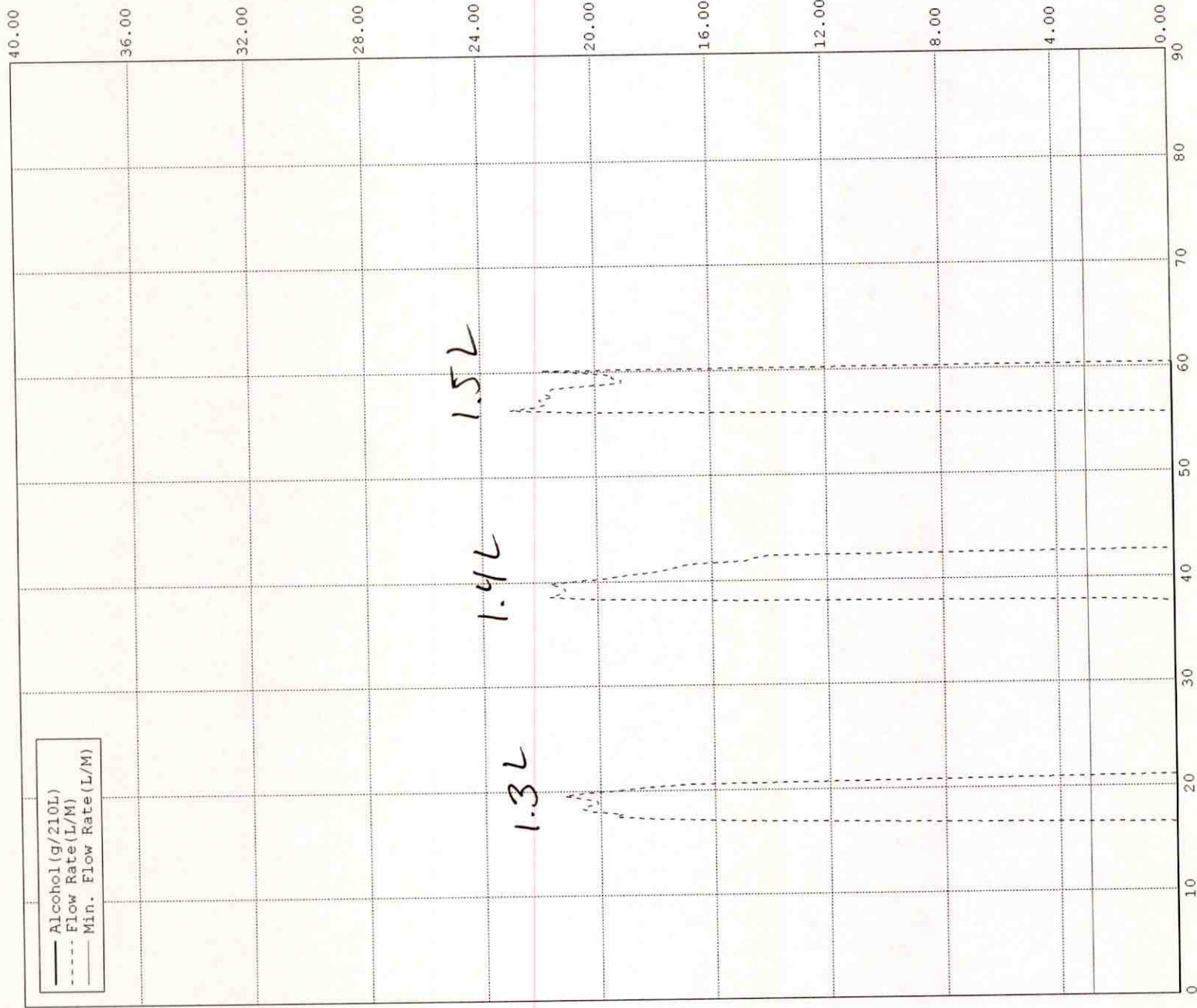
DEPT/AGENCY:
MINIMUM VOLUME TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.31: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:18
BLANK TEST	0.000	09:18
INTERNAL STANDARD	VERIFIED	09:18
EXTERNAL STANDARD	0.076	09:18
BLANK TEST	0.000	09:19
SUBJECT SAMPLE (Vol=1.54L)	0.000	09:20
BLANK TEST	0.000	09:21
EXTERNAL STANDARD	0.077	09:21
BLANK TEST	0.000	09:22

OKG



LINEARITY CHECK

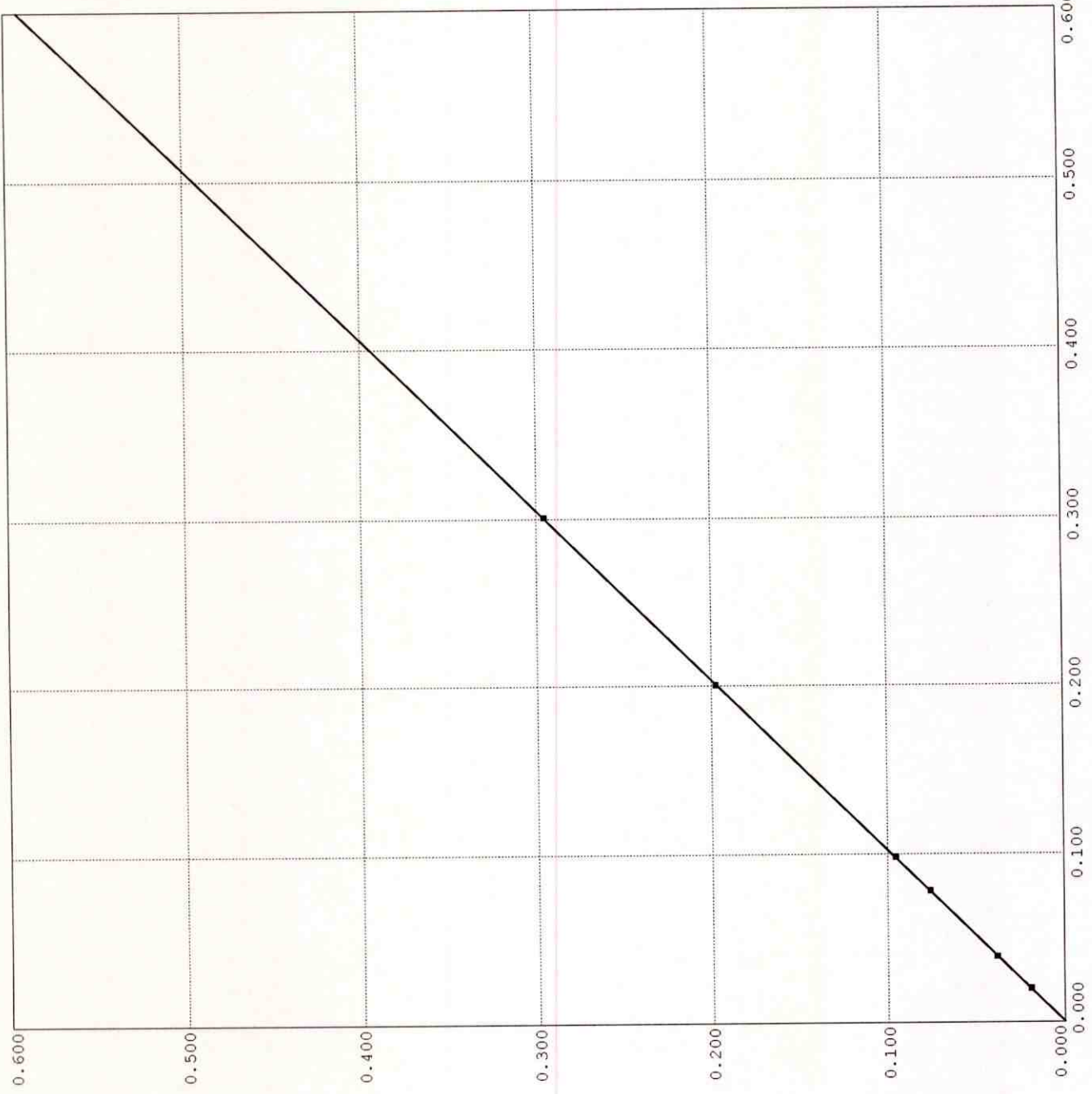
 Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 10/15/2021
 Time: 09:27:17

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.020	0.0196	0.0005
0.039	0.0388	0.0004
0.078	0.0768	0.0004
0.098	0.0964	0.0005
0.200	0.1984	0.0005
0.300	0.2962	0.0008

SLOPE = 0.988741
 R² = 0.999982



CKG

LINEARITY CHECK: Control Test 1

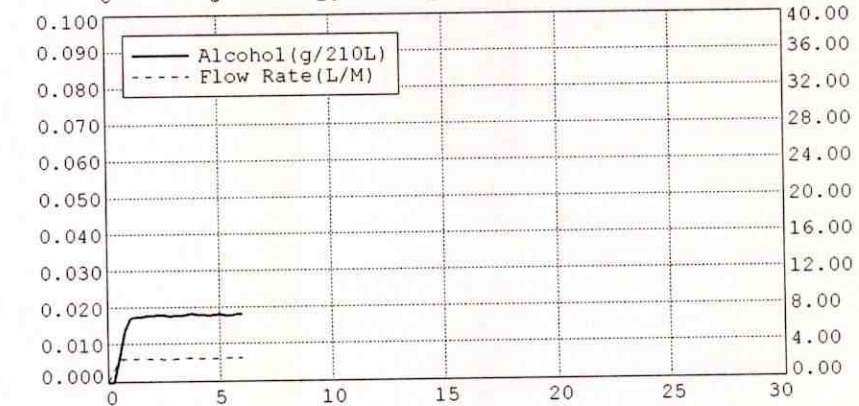
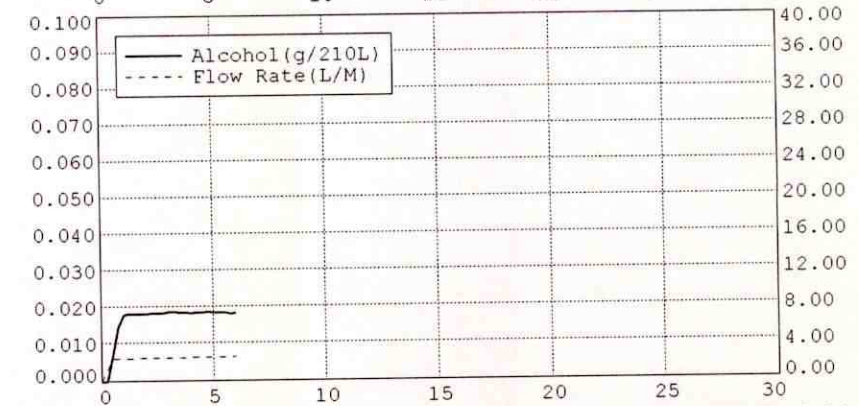
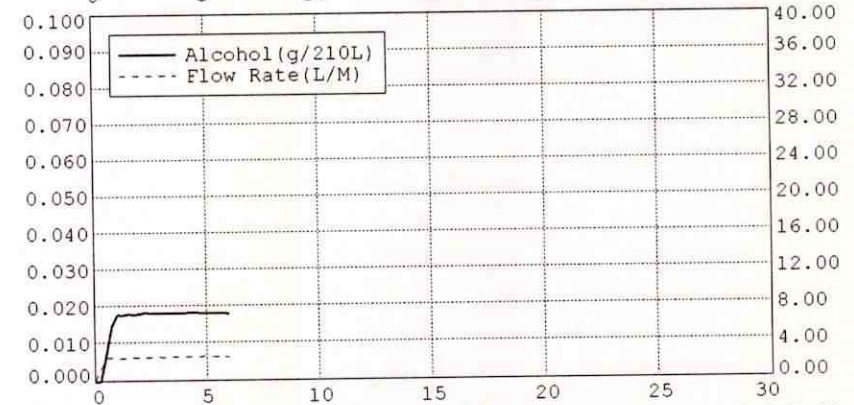
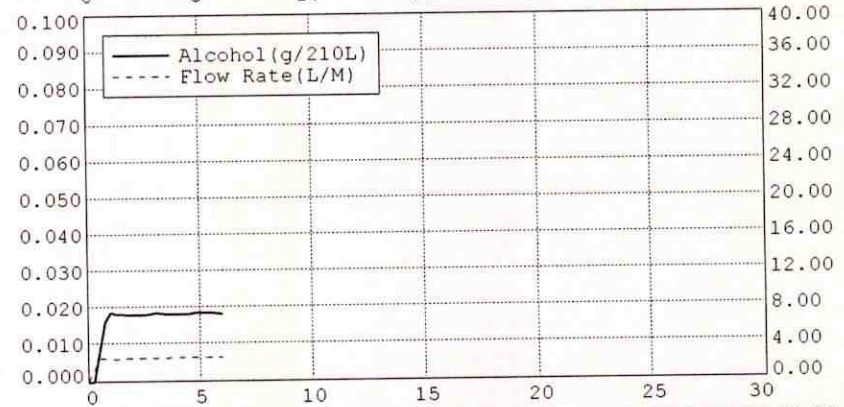
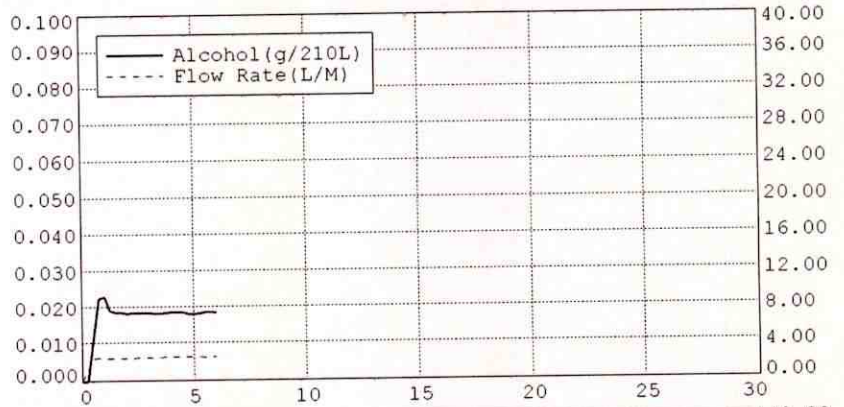
Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 10/15/2021
 Time: 09:27:20

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.020
 TARGET AT 29.32: 0.020
 LOT #: AG100401
 EXPIRATION: 01/04/2023
 TANK PRESSURE: 1127 psi

BLANK TEST	0.000	09:28
INTERNAL STANDARD	VERIFIED	09:28
EXTERNAL STANDARD	0.020	09:28
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.020	09:29
BLANK TEST	0.000	09:30
EXTERNAL STANDARD	0.019	09:31
BLANK TEST	0.000	09:31
EXTERNAL STANDARD	0.020	09:32
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.019	09:33
BLANK TEST	0.000	09:34

Average = 0.0196
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

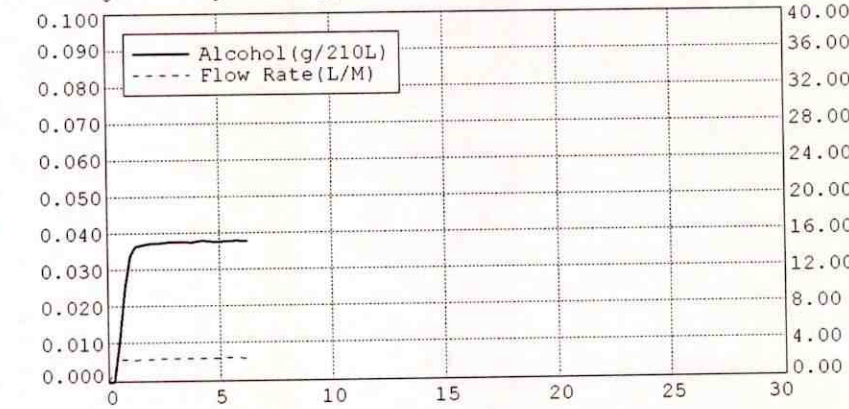
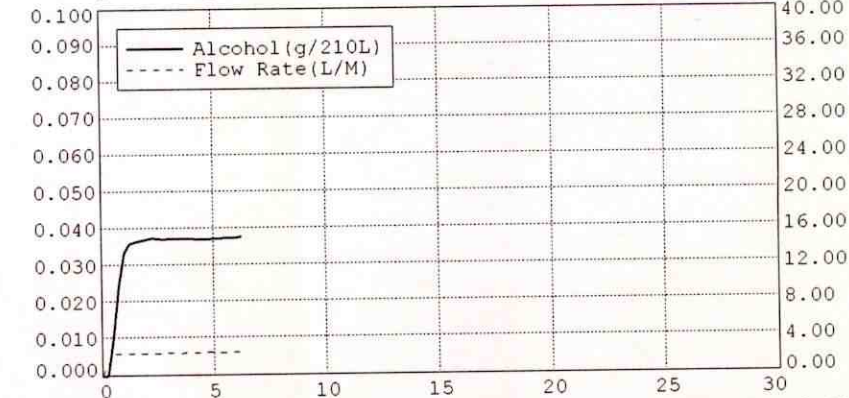
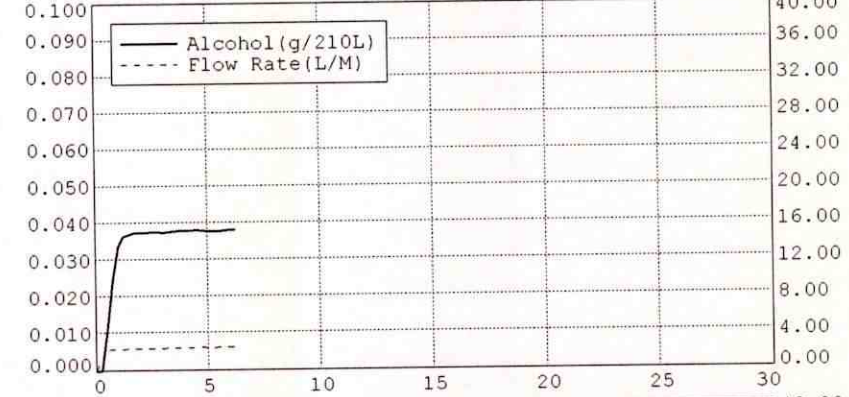
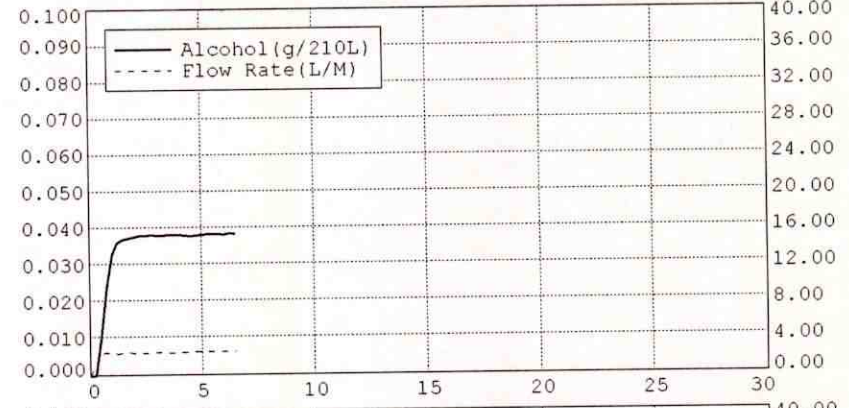
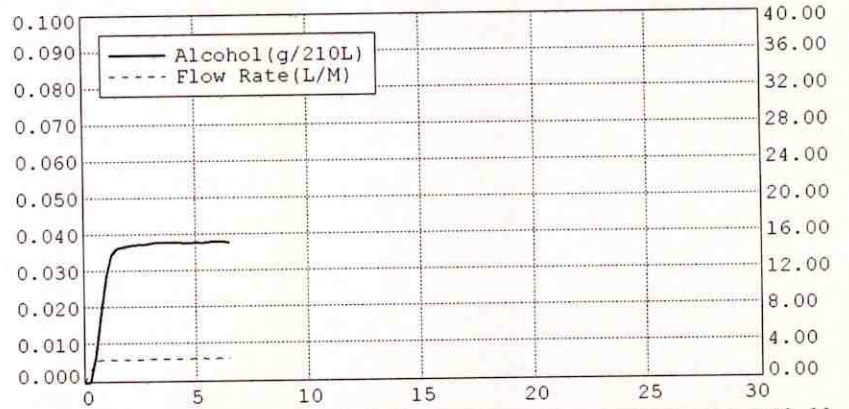
Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 10/15/2021
 Time: 09:36:43

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.31: 0.039
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 757 psi

BLANK TEST	0.000	09:37
INTERNAL STANDARD	VERIFIED	09:38
EXTERNAL STANDARD	0.039	09:38
BLANK TEST	0.000	09:39
EXTERNAL STANDARD	0.039	09:39
BLANK TEST	0.000	09:40
EXTERNAL STANDARD	0.039	09:40
BLANK TEST	0.000	09:41
EXTERNAL STANDARD	0.038	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.039	09:42
BLANK TEST	0.000	09:43

Average = 0.0388
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

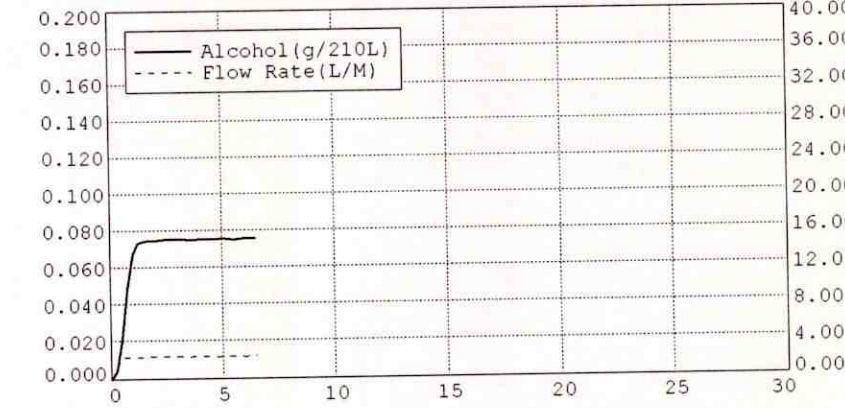
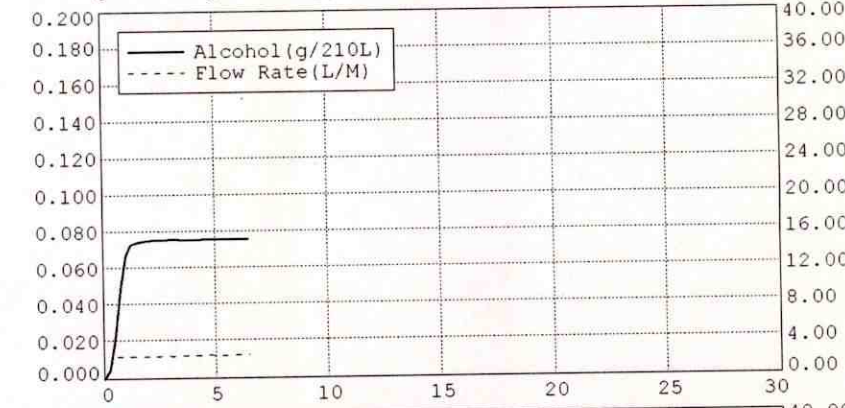
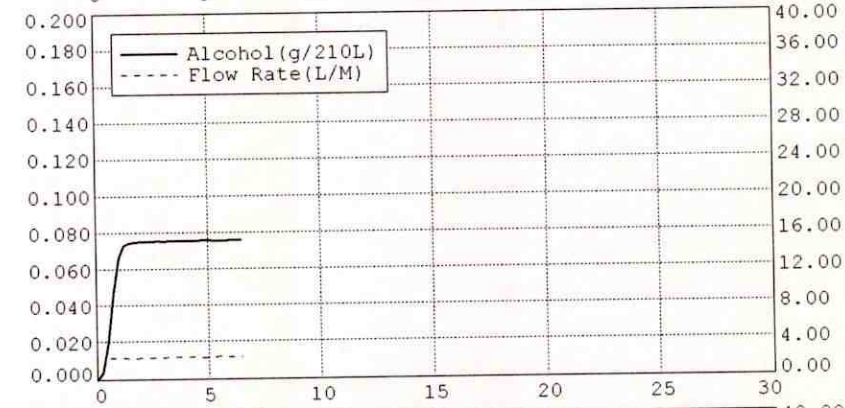
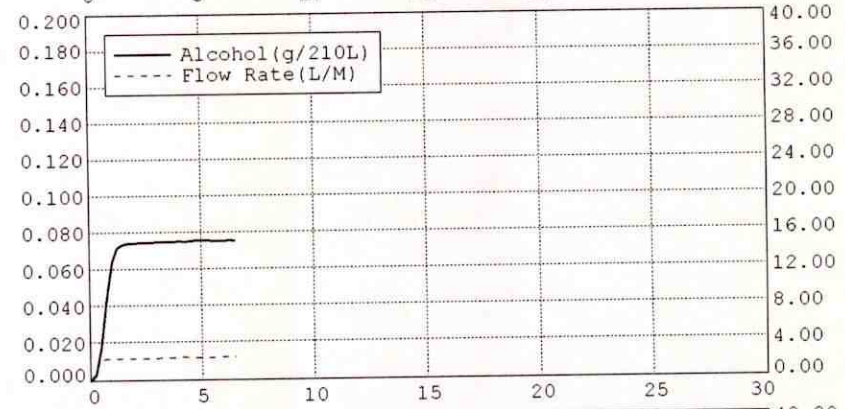
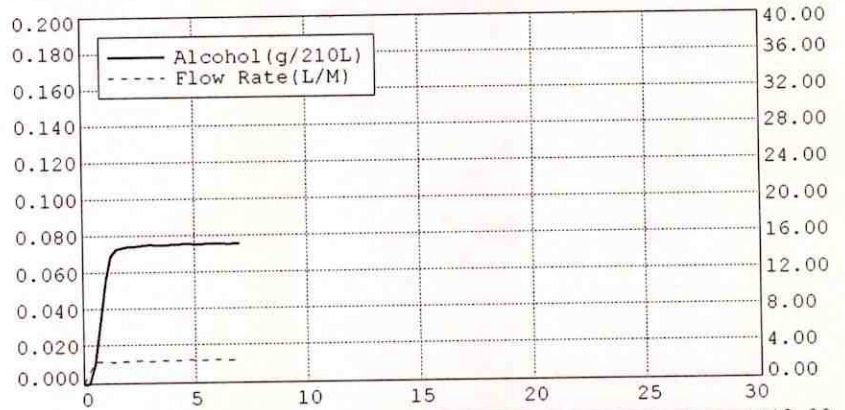
Date: 10/15/2021
 Time: 09:45:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.32: 0.078
 LOT #: AG018102
 EXPIRATION: 06/29/2022
 TANK PRESSURE: 761 psi

BLANK TEST	0.000	09:46
INTERNAL STANDARD	VERIFIED	09:46
EXTERNAL STANDARD	0.077	09:47
BLANK TEST	0.000	09:47
EXTERNAL STANDARD	0.077	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.077	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.077	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.076	09:51
BLANK TEST	0.000	09:52

Average = 0.0768
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

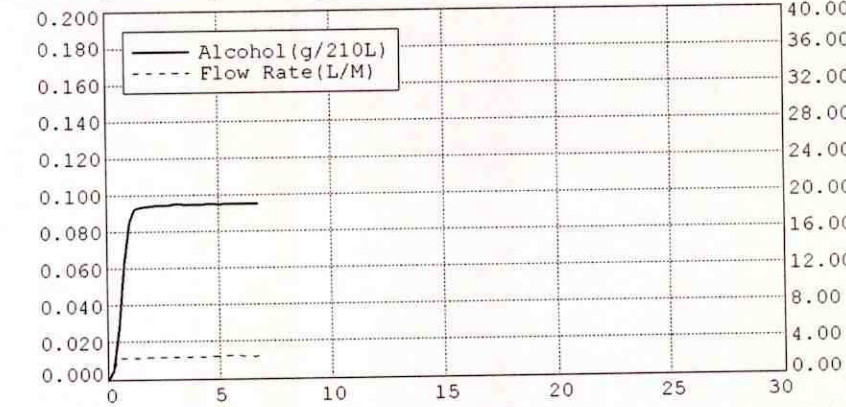
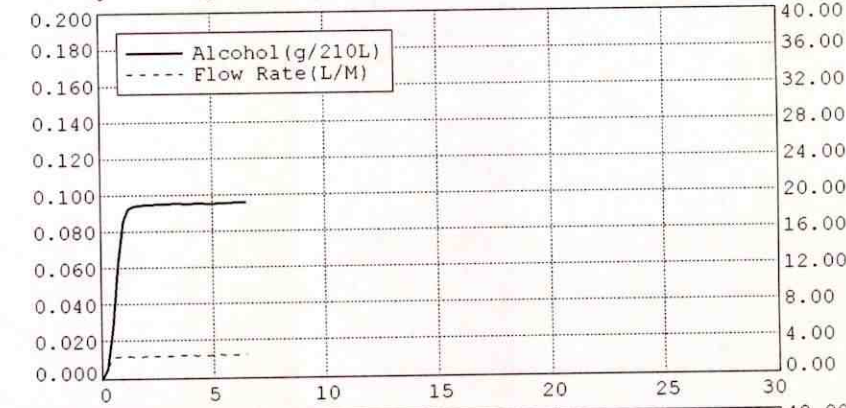
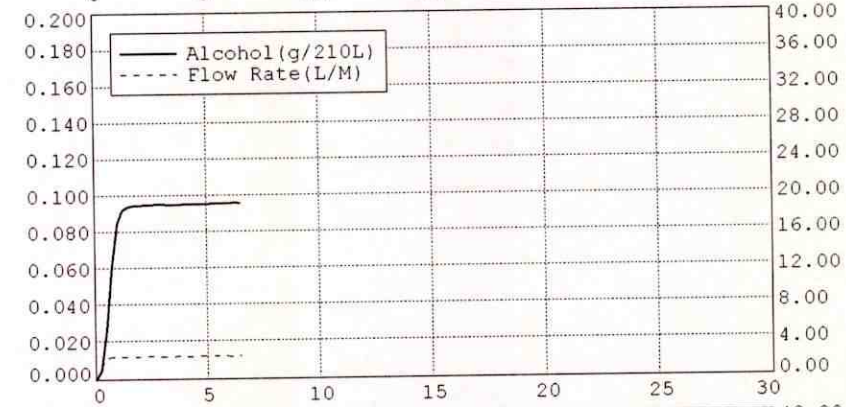
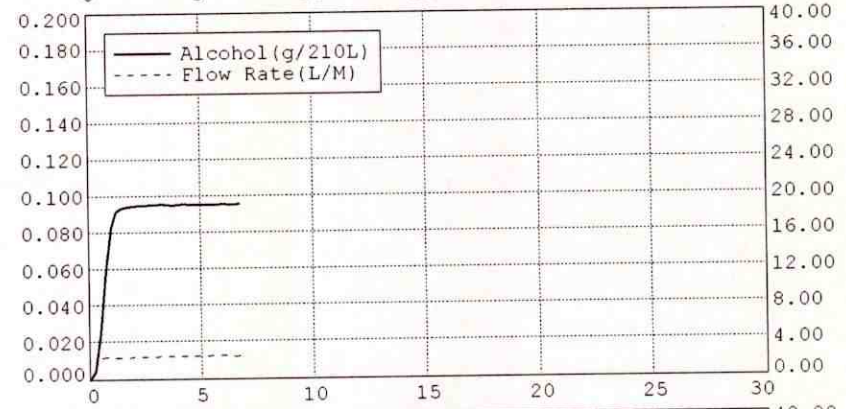
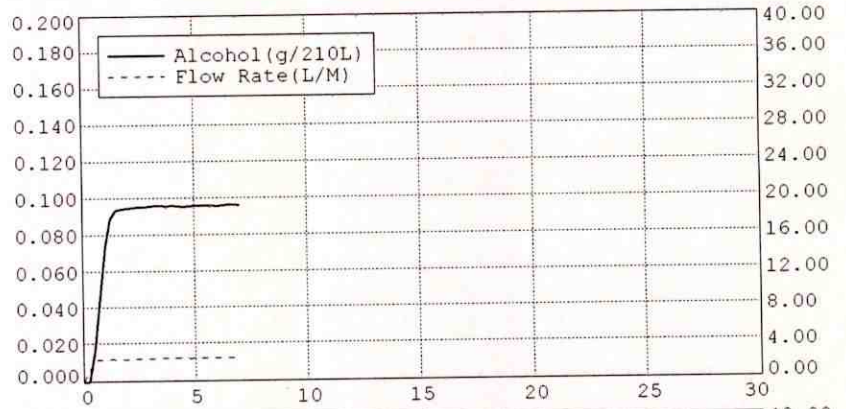
Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 10/15/2021
 Time: 09:59:14

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.100
 TARGET AT 29.32: 0.098
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 928 psi

BLANK TEST	0.000	10:00
INTERNAL STANDARD	VERIFIED	10:00
EXTERNAL STANDARD	0.097	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.096	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.096	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.097	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.096	10:05
BLANK TEST	0.000	10:06

Average = 0.0964
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

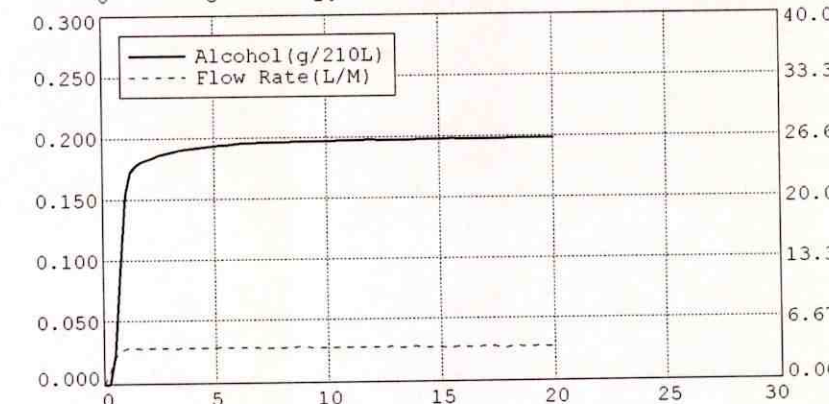
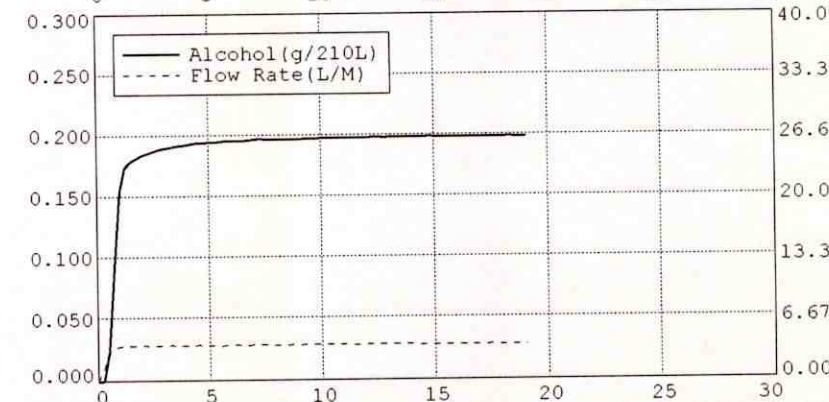
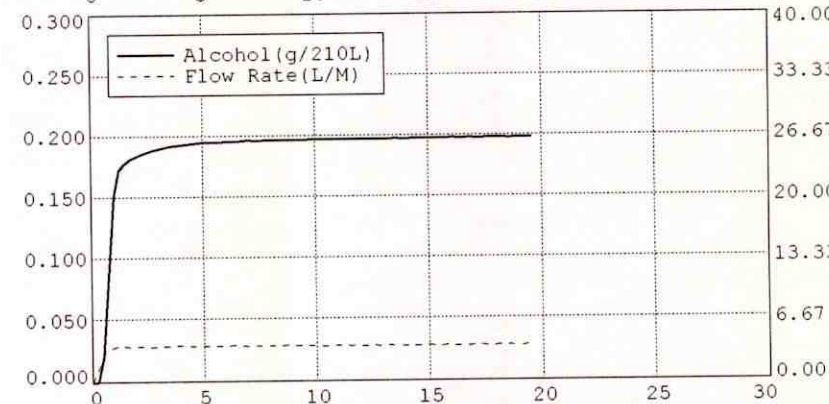
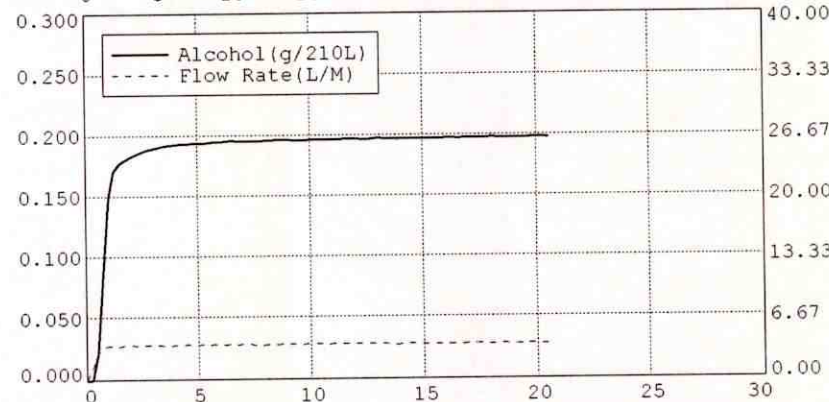
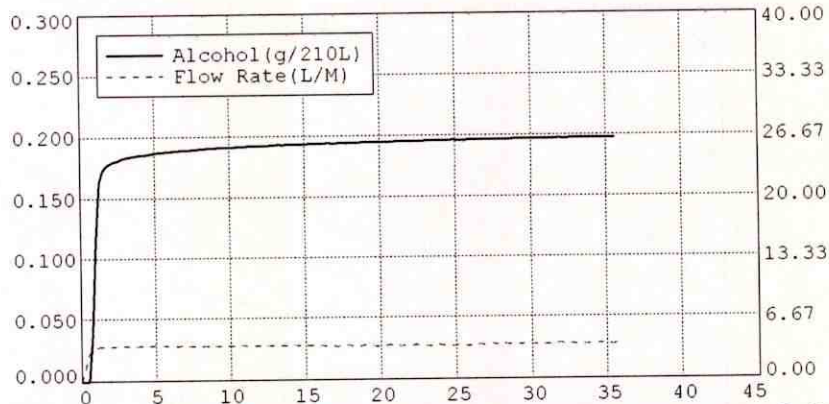
Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 10/15/2021
 Time: 10:07:27

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 20510
 EXPIRATION: 12/03/2022

BLANK TEST	0.000	10:10
INTERNAL STANDARD	VERIFIED	10:10
EXTERNAL STANDARD	0.198	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.198	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.198	10:14
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.199	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.199	10:16
BLANK TEST	0.000	10:17

Average = 0.1984
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

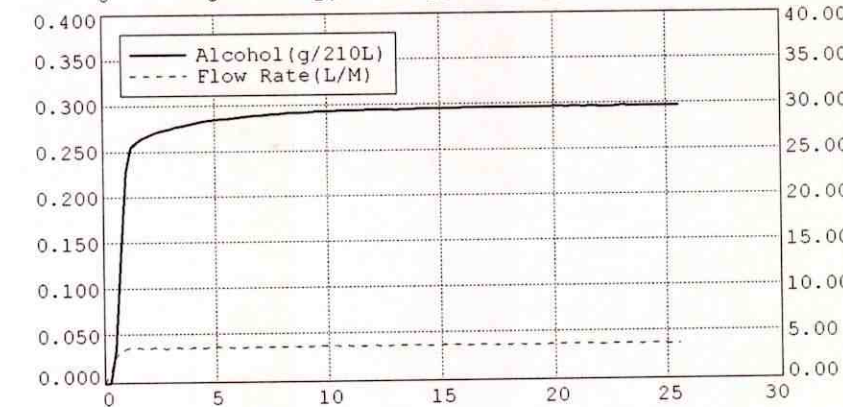
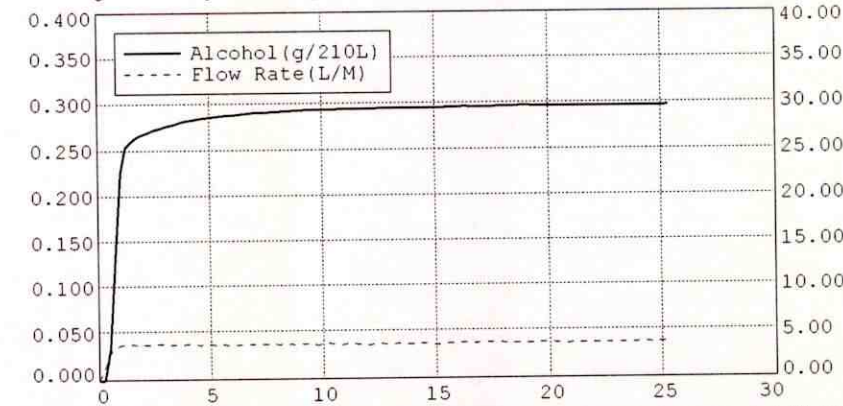
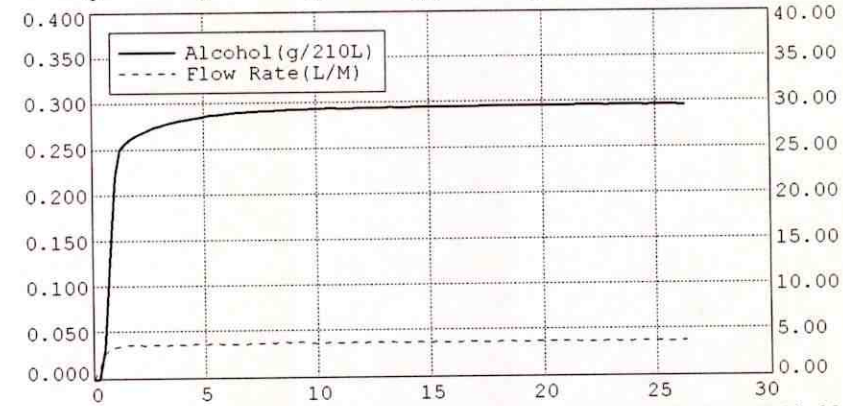
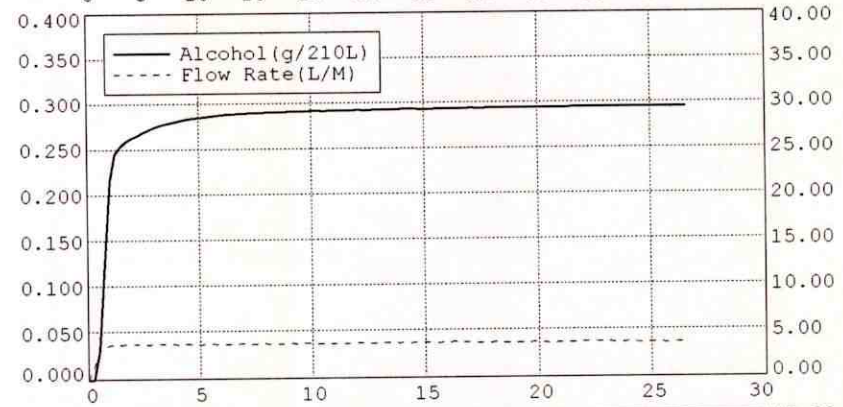
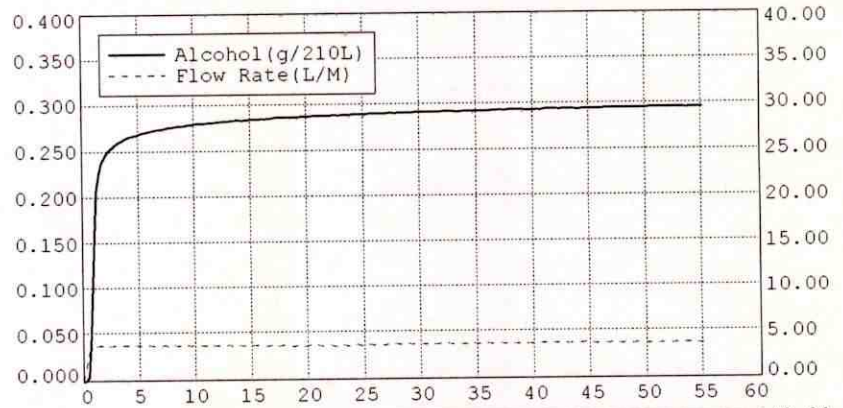
Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 10/15/2021
 Time: 10:25:31

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

BLANK TEST	0.000	10:30
INTERNAL STANDARD	VERIFIED	10:30
EXTERNAL STANDARD	0.296	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.295	10:33
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.296	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.297	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.297	10:37
BLANK TEST	0.000	10:38

Average = 0.2962
 Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100402

Date: 10/15/2021

Time: 11:01:40

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 29.34: 0.078

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 11:02
0.000 11:02
VERIFIED 11:03
0.077 11:03
0.000 11:04
INCOMPLETE 11:06

CYG



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100402

Date: 10/15/2021
Time: 13:45:00

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

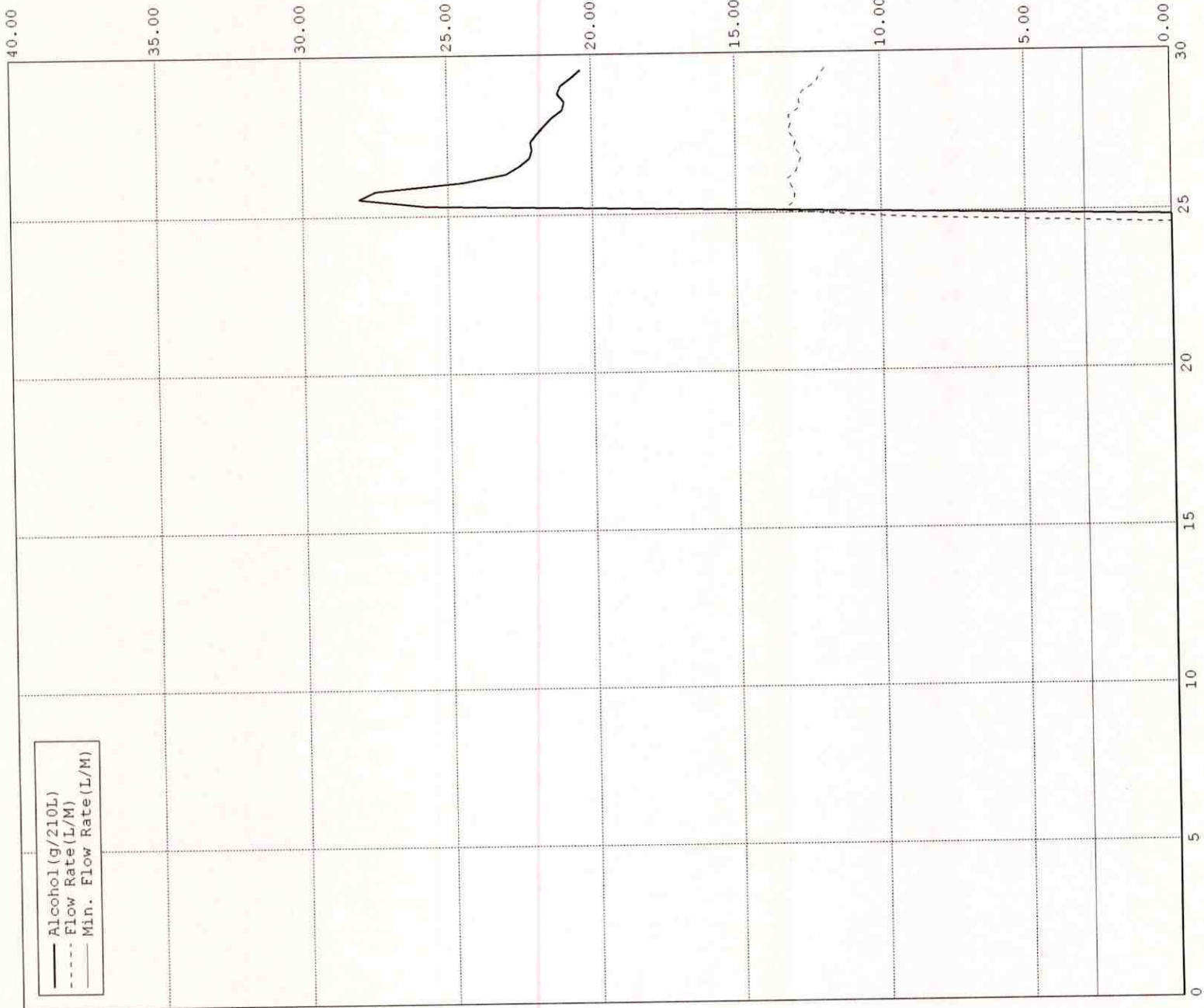
DEPT/AGENCY:
INVALID
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.38: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	13:46
BLANK TEST	0.000	13:46
INTERNAL STANDARD	VERIFIED	13:46
EXTERNAL STANDARD	0.077	13:46
BLANK TEST	0.000	13:47
SUBJECT SAMPLE	INVALID	13:48

CKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 10/15/2021
Time: 12:02:59

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

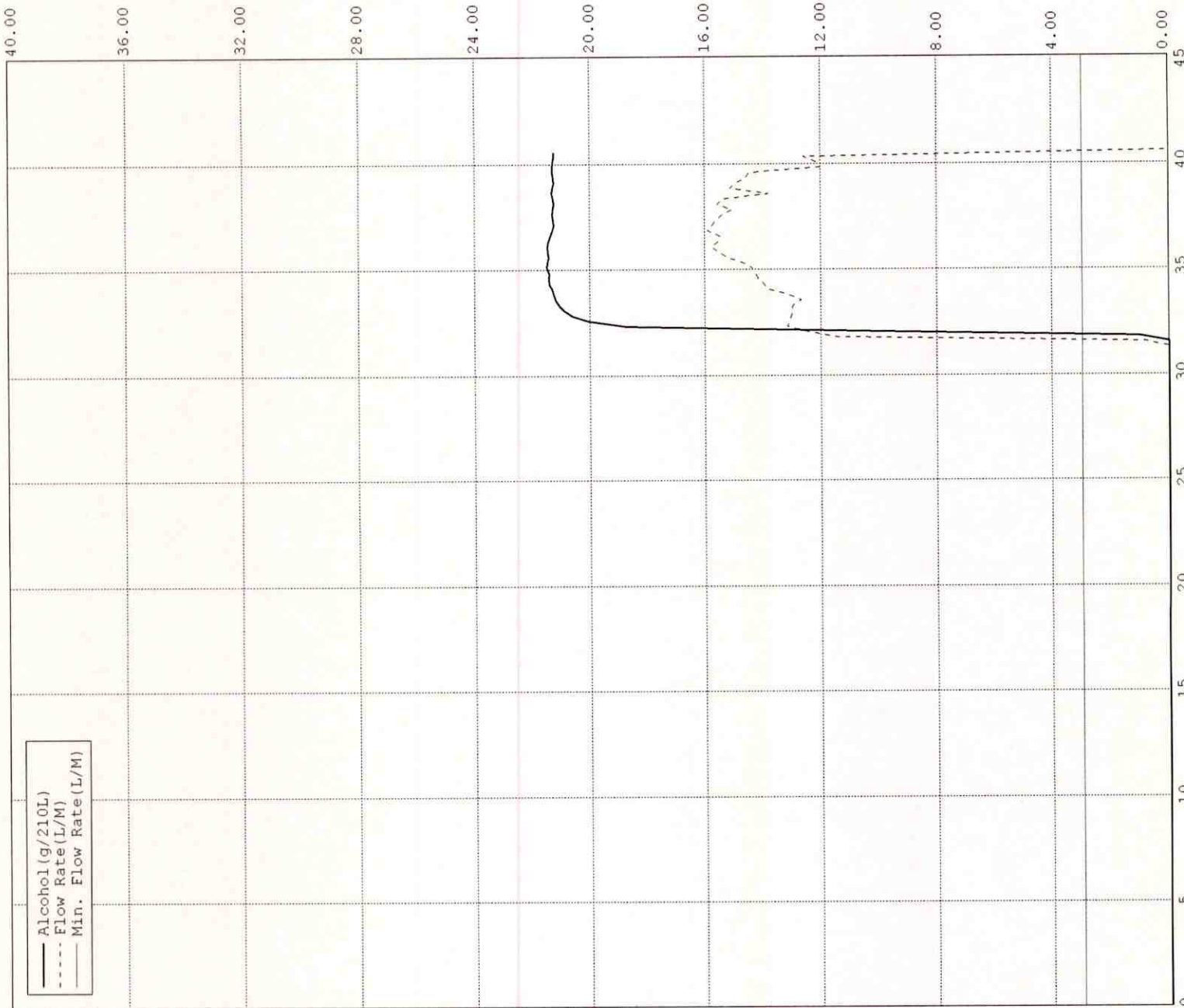
DEPT/AGENCY:
INTERFERENCE ACETONE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.36: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 12:04
BLANK TEST 0.000 12:04
INTERNAL STANDARD VERIFIED 12:04
Xq = 0.076 (0.11%)
EXTERNAL STANDARD 0.077 12:04
X[1] = 0.0768 (-0.0010) (0.0031)
BLANK TEST 0.000 12:05
SUBJECT SAMPLE XXX 12:06
X[1] = 0.1069 (-0.0135) (0.0021)

Interference Detected

Filter 2 average: -0.0014
Filter 3 average: 0.0025



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 10/15/2021
Time: 12:09:31

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

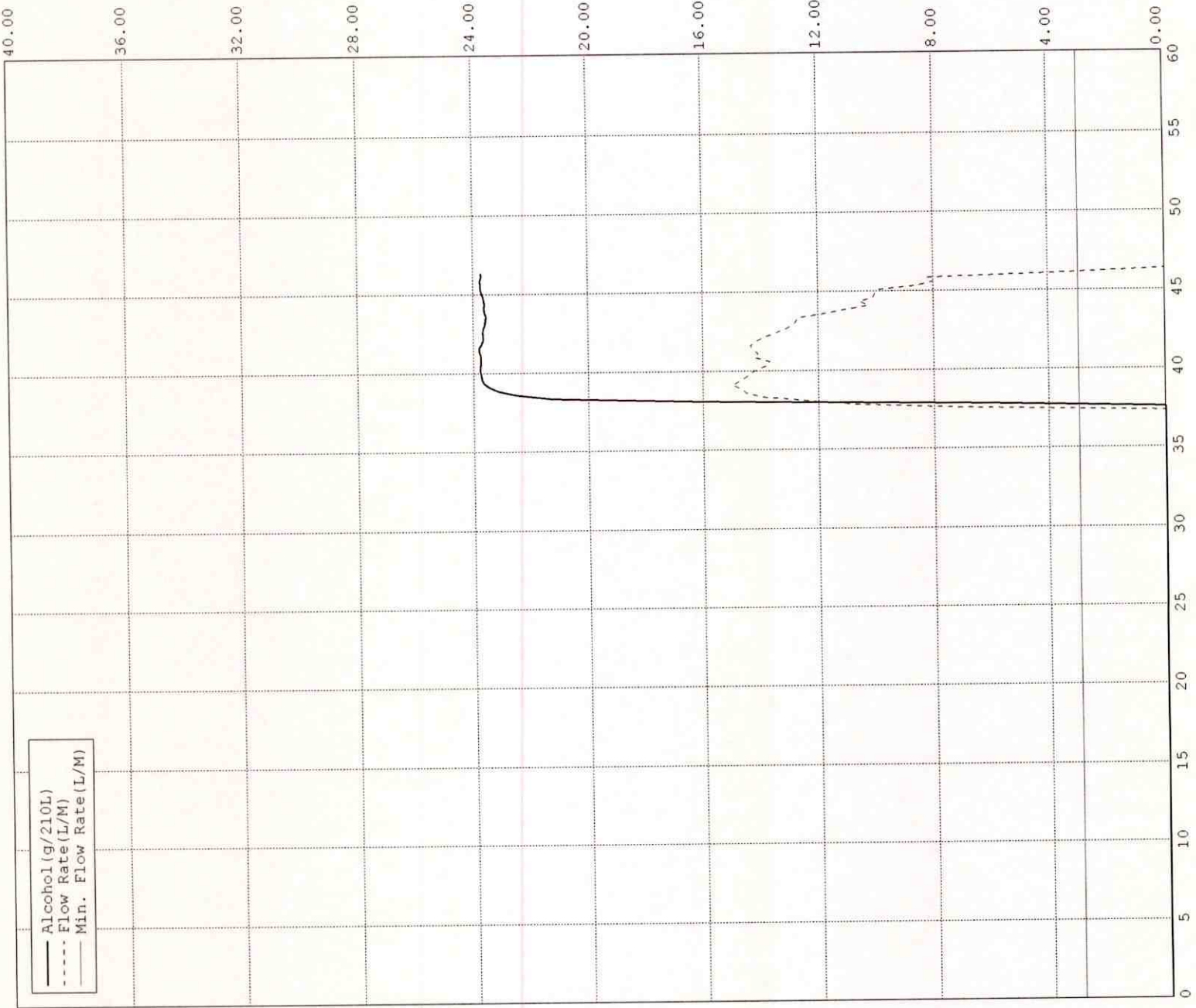
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.36: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 12:10
BLANK TEST 0.000 12:10
INTERNAL STANDARD VERIFIED 12:10
Xq = 0.077 (0.80%) 0.077 12:11
EXTERNAL STANDARD X[1] = 0.0768 (-0.0016) (0.0024)
BLANK TEST 0.000 12:12
SUBJECT SAMPLE XXX 12:12
X[1] = 0.1192 (-0.0303) (0.0018)

Interference Detected

CXO



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100402

Date: 10/15/2021
 Time: 12:15:42

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

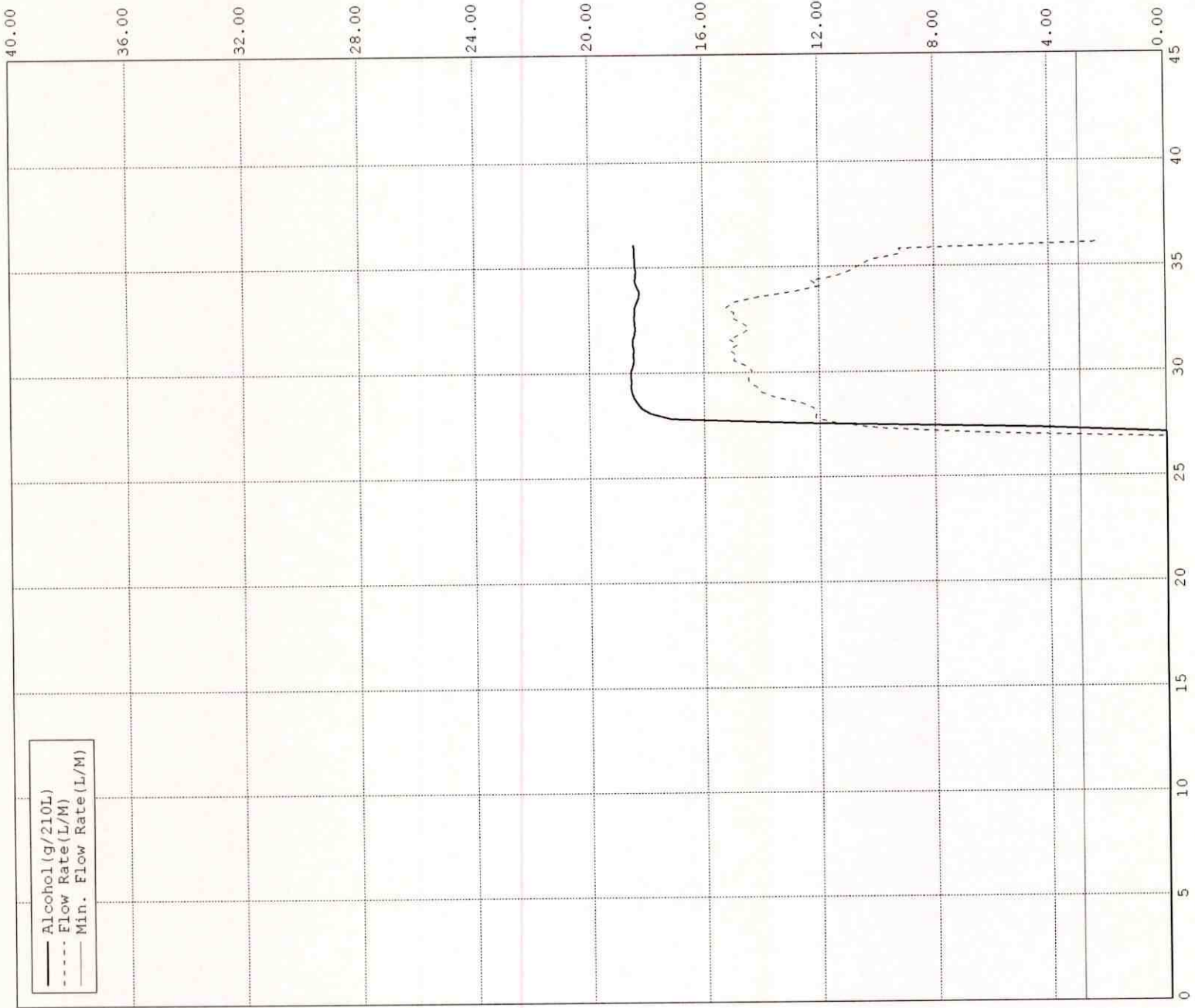
OPERATOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.36: 0.079
 LOT #: AG018102
 EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:17
BLANK TEST	0.000	12:17
INTERNAL STANDARD	VERIFIED	12:17
Xq = 0.076 (0.69%)		
EXTERNAL STANDARD	0.077	12:17
X[1] = 0.0770 (-0.0017) (0.0030)		
BLANK TEST	0.000	12:18
SUBJECT SAMPLE (Vol=1.95L)	0.093	12:19
X[1] = 0.0931 (-0.0012) (0.0011)		
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.077	12:20
X[1] = 0.0766 (-0.0014) (0.0014)		
BLANK TEST	0.000	12:21

CKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 10/15/2021
Time: 11:27:42

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

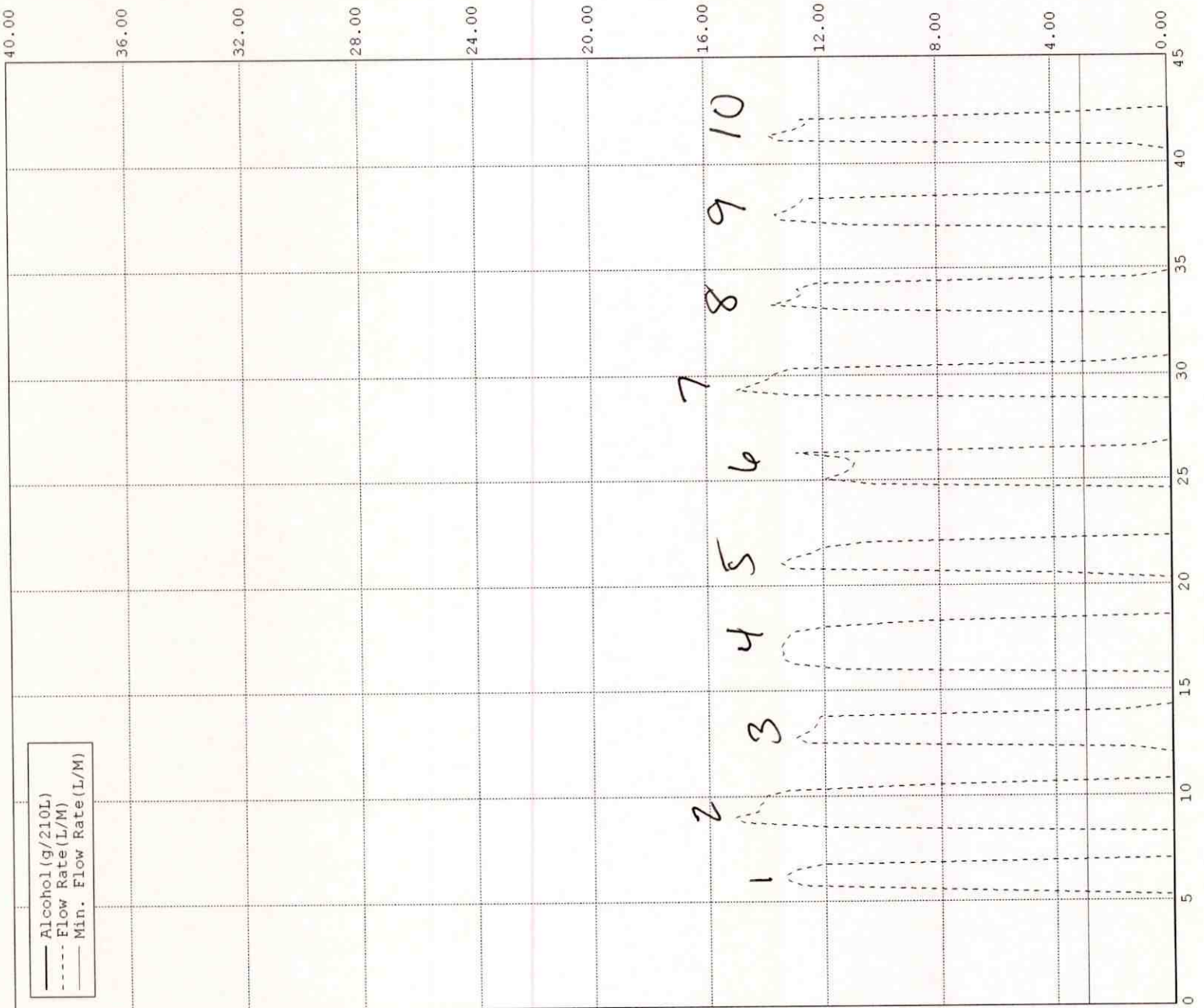
DEPT/AGENCY:
MAXIMUM ATTEMPTS EXCEEDED
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.35: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 11:28
BLANK TEST 0.000 11:28
INTERNAL STANDARD VERIFIED 11:28
EXTERNAL STANDARD 0.076 11:29
BLANK TEST 0.000 11:30
SUBJECT SAMPLE XXX 11:30

Maximum Attempts Exceeded

CVG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100402

Date: 10/15/2021
Time: 14:04:48

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 29.38: 0.079

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

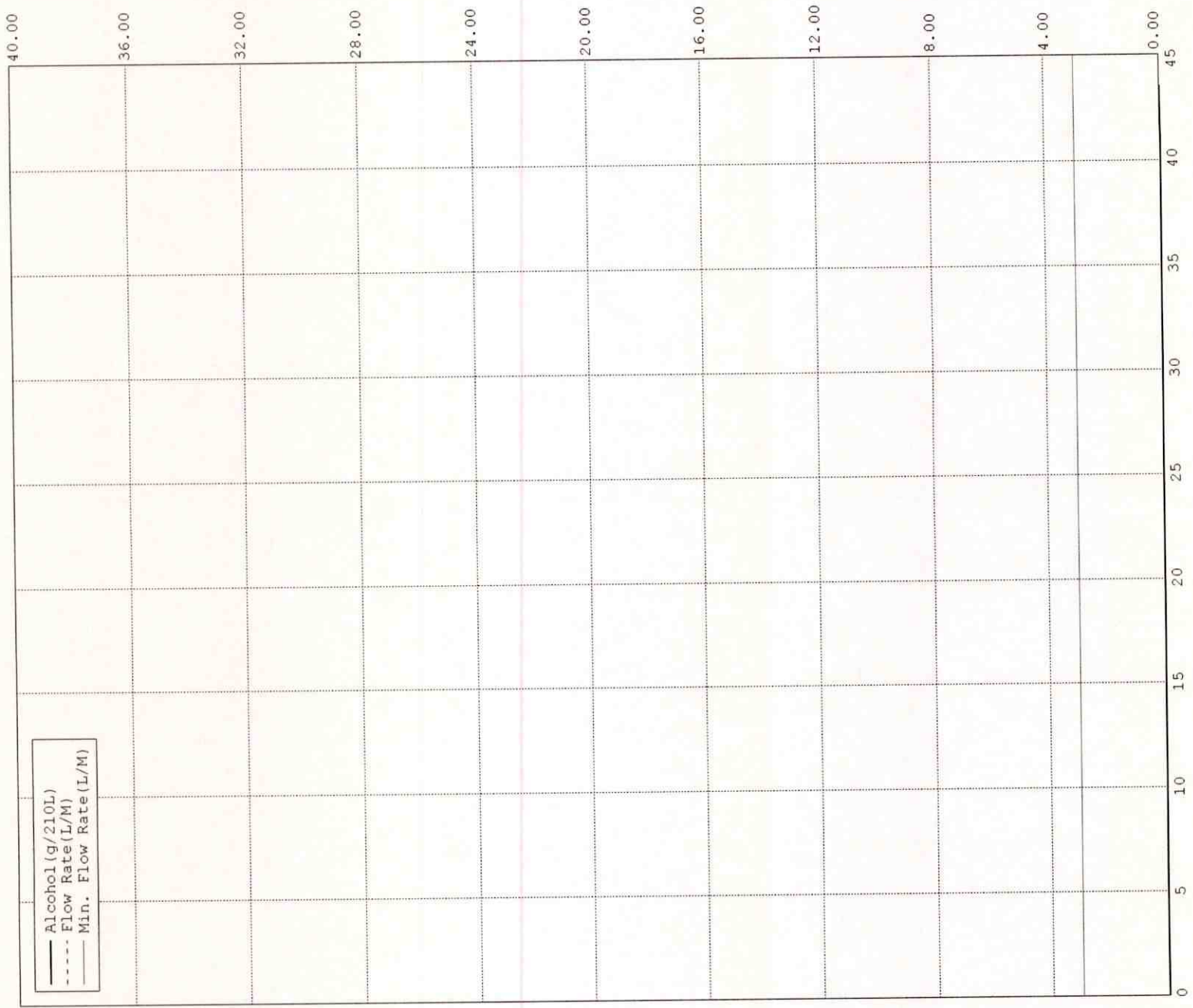
EXTERNAL STANDARD

BLANK TEST

PASSED 14:06
0.000 14:06
VERIFIED 14:06
0.077 14:06
0.000 14:07

RFI DETECTED

CKG



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100402

Date: 10/15/2021

Time: 14:27:19

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 29.39: 0.079

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:28
BLANK TEST	0.000	14:28
INTERNAL STANDARD	VERIFIED	14:28
EXTERNAL STANDARD	0.078	14:28
BLANK TEST	0.000	14:29
SUBJECT SAMPLE (Vol=2.08L)	0.000	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.077	14:31
BLANK TEST	0.000	14:32

CKG

