



State of Alaska
 Department of Public Safety
Scientific Crime Detection Laboratory

4805 Dr. Martin Luther King Jr. Ave.
 Anchorage, Alaska 99507
 David Kanaris, Chief, Forensic Laboratories

Breath Alcohol Calibration Report
Calibration Item: DataMaster DMT
Serial Number: 100370

Report Issue Date: 12/28/2023
Date Received: 2023-10-17
Condition of Item: Needs Repair

Method Used: DataMaster DMT Calibration / Current Breath Alcohol Procedure Manual
Calibration Range: 0.020 g/210L - 0.300 g/210L

No As-Found Data Collected

Regulator damaged and wont thread two different tanks. Unable to perform as-found. Replace regulator.

Start Date 11/30/2023 - As Left - End Date 12/04/2023

As Left Conditions - Barometric Pressure (inHg): 28.83 Barometer Used: Fisher S/N 221250180 Temperature (C): 22.3 Relative Humidity (%): 19

As-Left Data

Nominal Values (g/210L)	Target Values (g/210L)	Lot Number	Results (g/210L)					Mean (g/210L)	Uncertainty (g/210L)
0.020	0.019	AG217902	0.018	0.019	0.019	0.019	0.019	0.019	+/- 0.002
0.040	0.039	AG217904	0.038	0.038	0.039	0.039	0.038	0.038	+/- 0.003
0.080	0.077	AG310901	0.077	0.077	0.077	0.076	0.077	0.077	+/- 0.004
0.100	0.096	AG211003	0.096	0.096	0.097	0.096	0.096	0.096	+/- 0.004
0.150	0.144	AG134205	0.145	0.146	0.146	0.145	0.145	0.145	+/- 0.005
0.300	0.289	AG217903	0.291	0.292	0.292	0.292	0.292	0.292	+/- 0.011

Calibration is performed using dry gas standards traceable to NIST. Standards are sourced from an external provider accredited to ISO/IEC 17025 and ISO 17034 standards. Internal instrument barometer readings are traceable to NIST. External barometers are calibrated by an external calibration provider accredited to the ISO/IEC 17025 standard.

The As-Left results listed above include the estimated measurement uncertainty with a coverage factor k=2 and an expanded coverage probability of 95%. The estimated uncertainty applies to the calibration process and not to subject breath samples.

This report applies only to the item being calibrated and shall not be reproduced, except in full, without written approval from the laboratory.

Results authorized by Carlie Glaister on 12/28/2023

carlie.glaister@alaska.gov

Technically and administratively reviewed by Brandi Barnett on 12/28/2023

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100370 Analyst: Charlie Haister Start Date: 11/30/23

- Diagnostic Test (attached)
- Adjust voltages, if needed
 - Lamp (2.60 V Maximum)
 - Bias
 - Cooler (2.00 V Maximum)
- Internal Standard value \leq 3.00%
 - Chopper Frequency
 - Detector Voltage (-0.100V to 0.100V)
- Set RFI Sensitivity
- Adjust internal barometer reading to match NIST-traceable barometer
- Adjust volume setting, if needed (1.50 L +/- 0.10 L)
- Print Technician Screen (attached)
- Print Calibration Factors (attached)
- Minimum Volume Test 1.5 L (1.3L to 1.7L)

As Left Conditions:

Barometric Pressure (in Hg): 28.83 Temperature (C): 22.3 Relative Humidity (%): 19

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-217902</u>	Exp: <u>6/28/24</u>
0.040g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-217904</u>	Exp: <u>6/28/24</u>
0.080g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-310901</u>	Exp: <u>4/19/25</u>
0.100g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-211003</u>	Exp: <u>4/20/24</u>
0.150g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-134205</u>	Exp: <u>12/8/23</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>AG-217903</u>	Exp: <u>6/28/24</u>

Functional Tests (attached)

- Incomplete
- Maximum Attempts Exceeded
- Interference (Volatiles)
- Invalid
- Radio Frequency Interference (RFI)
- Acetone Mnf: Lifloc Lot: 22HP41201 Level: 0.100 Exp: 8/24/24
Simulator S/N: DR4176 Verification Performed?
- Isopropanol Mnf: Lifloc Lot: 22HP41201 Level: 0.100 Exp: 8/24/24
Simulator S/N: DR4177 Verification Performed?
- Neg. Control Mnf: Lifloc Lot: 22HP41201 Level: 0.100 Exp: 8/24/24
Simulator S/N: DR6267 Verification Performed?

Calibrated External Thermometer:

Thermometer S/N: 230631106 Calibration Due Date: 9/19/2025

- Verify stylus is calibrated
- Reset Options
- Clear Memory
- Verification of Calibration (VOC)
- Non-Drinking Subject Test
- Upload
- Remove Tank Prior to Shutdown
- Calibration End Date: 12/1/23

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 11/30/2023
Time: 09:19:50

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.90 V PASSED
(1.06 V - 2.48 V)
Cooler Voltage = 1.84 V PASSED
(1.06 V - 2.46 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 537 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 28.8 in

PUMP INFO

Flow Rate = 4.350 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.003 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 1.67% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100370

Date: 11/30/2023

Time: 10:38 AM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 46.7°C

Current Barometer 28.8 in

Volume (Ltr) 1.54

Settings

Lamp: 1.90 V

Bias: 80 V

Cooler: 1.92 V

Chopper: 537 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.032 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 09/13/2010
Time: 17:02:07

Ca = 0.1000
CAL = 0.985723 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0023 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0889 0.0500 <= Xq < 0.2000
a21 = 1.164153 1.050 <= a21 < 1.300
a31 = 0.465013 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 11/30/2023
Time: 10:39:53

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

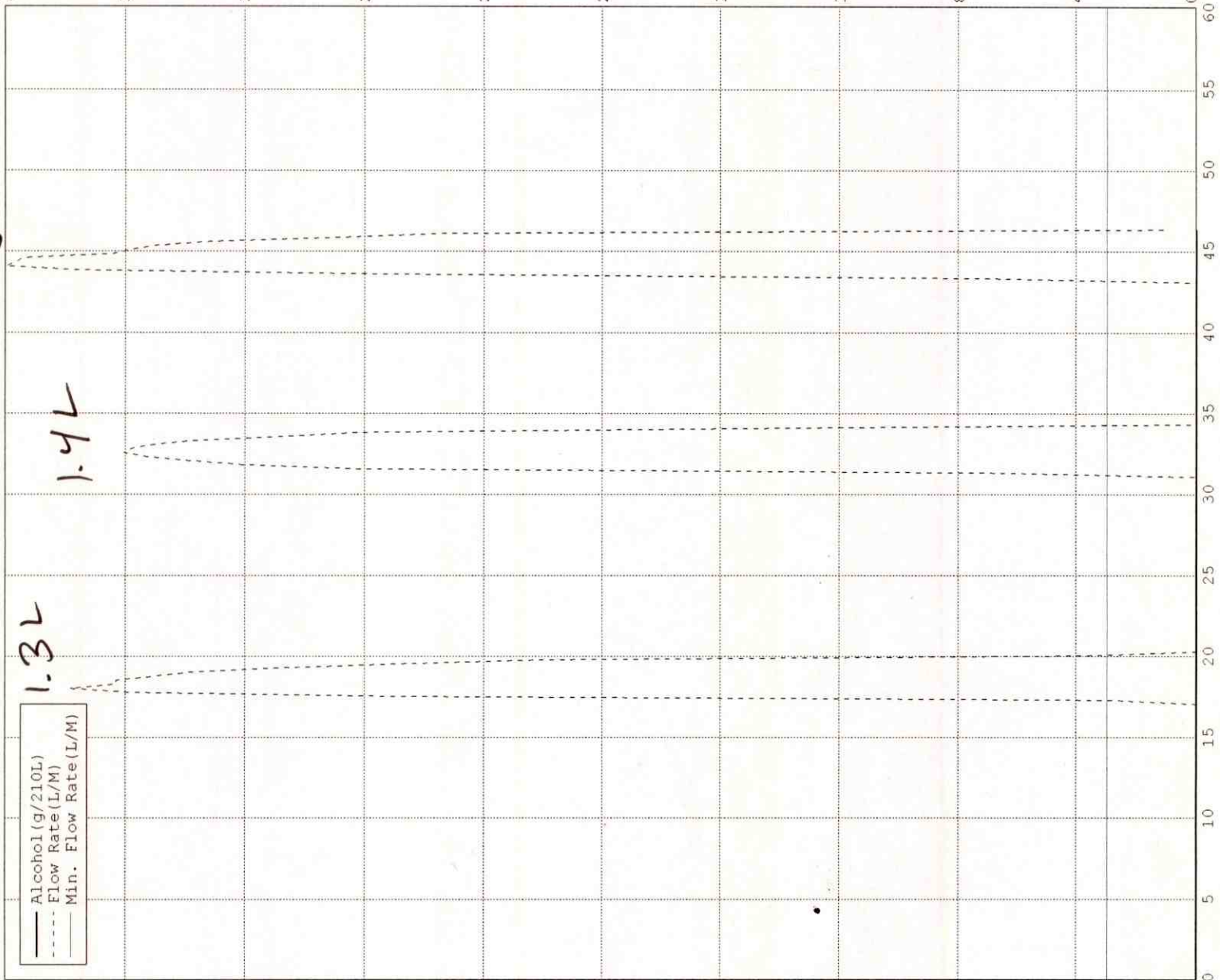
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080	PASSED	10:41
TARGET AT 28.83: 0.077	0.000	10:41
LOT #: AG310901	INTERNAL STANDARD	VERIFIED 10:41
EXPIRATION: 04/19/2025	EXTERNAL STANDARD	0.077 10:42
	BLANK TEST	0.000 10:42
	SUBJECT SAMPLE (Vol=1.61L)	0.000 10:43
	BLANK TEST	0.000 10:44
	EXTERNAL STANDARD	0.077 10:44
	BLANK TEST	0.000 10:45

0.077



LINEARITY CHECK

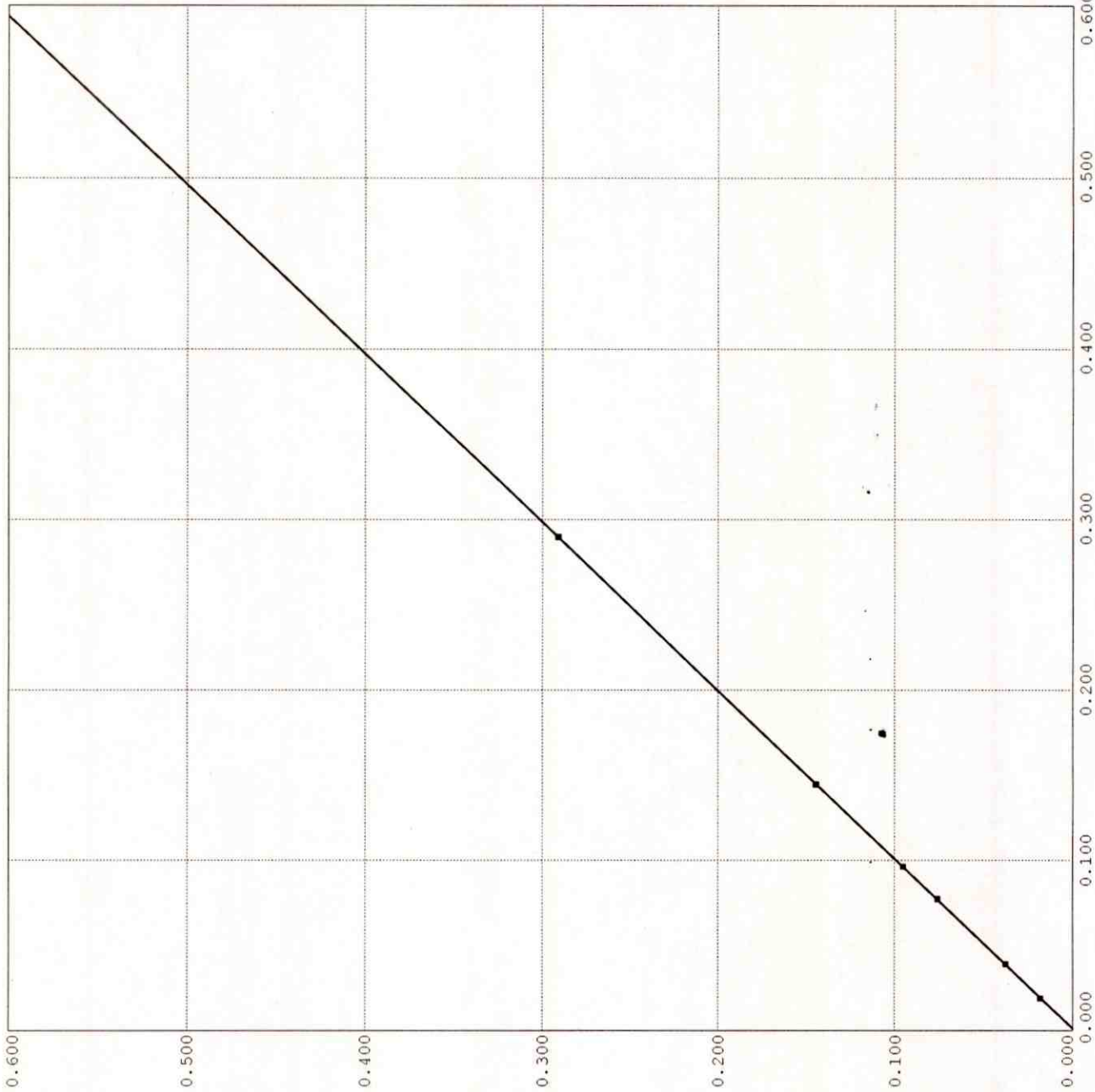
Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 11/30/2023
Time: 12:00:25

SUPERVISOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.019	0.0188	0.0004
0.039	0.0384	0.0005
0.077	0.0768	0.0004
0.096	0.0962	0.0004
0.144	0.1454	0.0005
0.289	0.2918	0.0004

SLOPE = 1.012785
R² = 0.999989



OKG

LINEARITY CHECK: Control Test 1

 Alaska Department of Public Safety
 DATAMASTER dmt: 100370

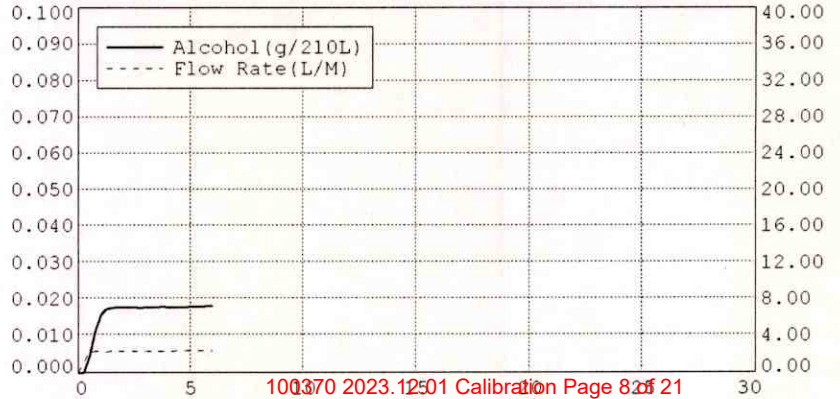
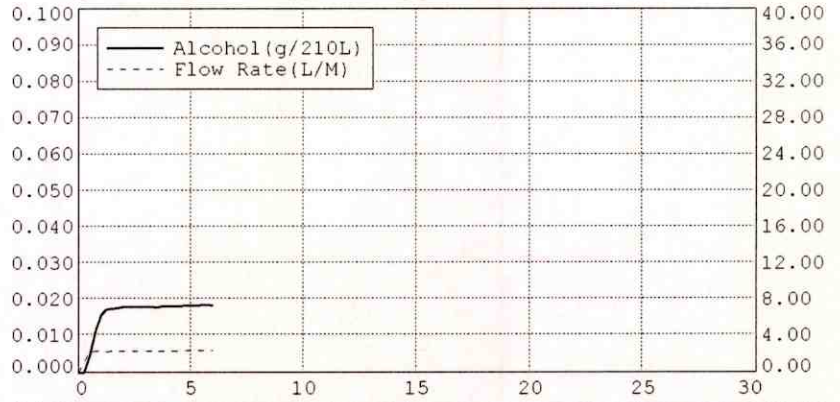
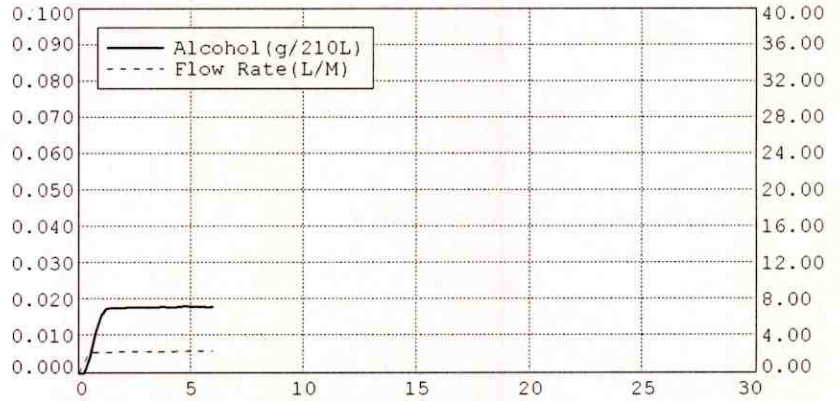
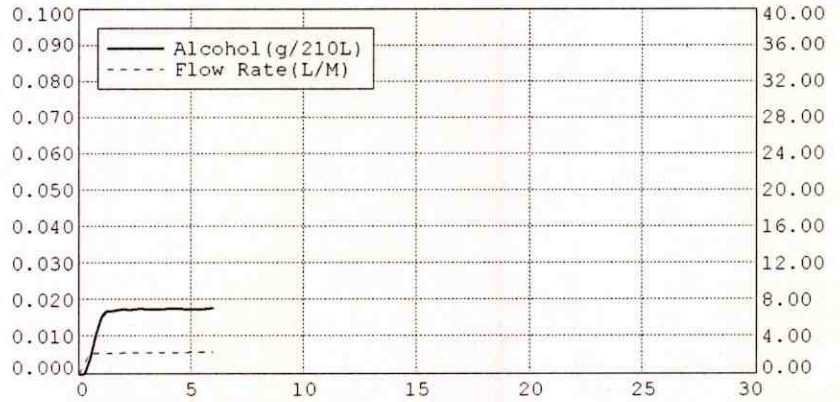
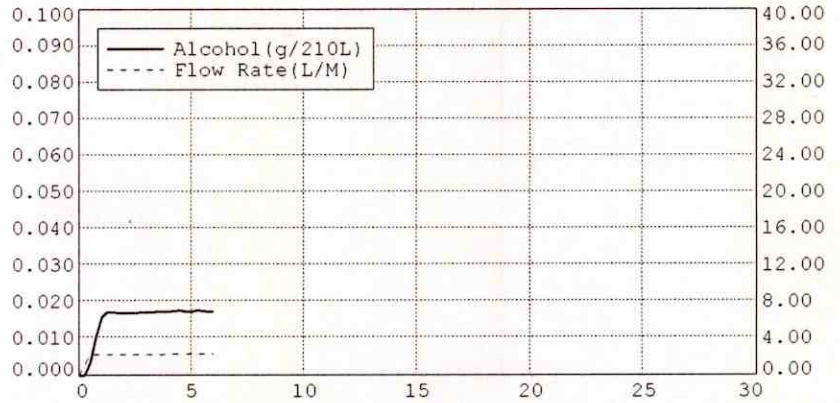
Date: 11/30/2023
 Time: 12:00:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 28.82: 0.019
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 511 psi

BLANK TEST	0.000	12:01
INTERNAL STANDARD	VERIFIED	12:02
EXTERNAL STANDARD	0.018	12:02
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.019	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.019	12:04
BLANK TEST	0.000	12:05
EXTERNAL STANDARD	0.019	12:05
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.019	12:06
BLANK TEST	0.000	12:07

Average = 0.0188
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

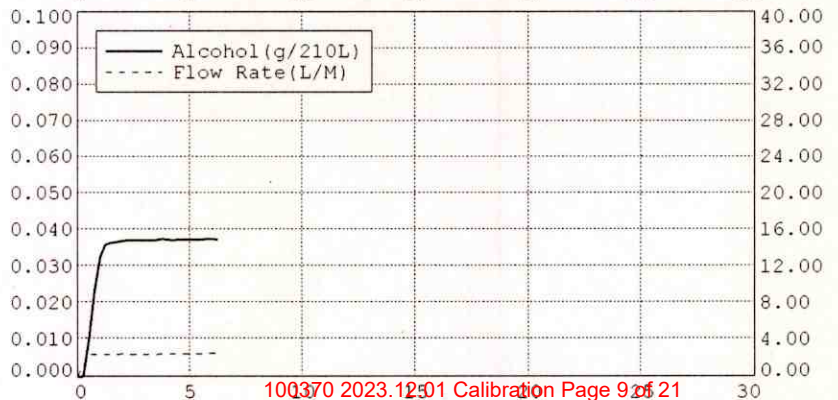
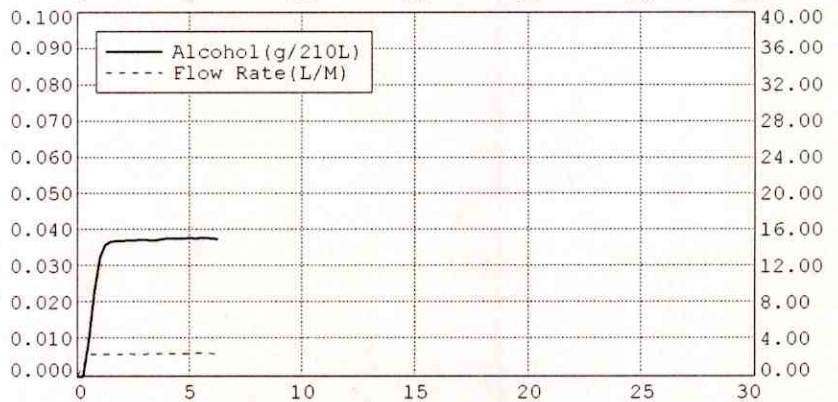
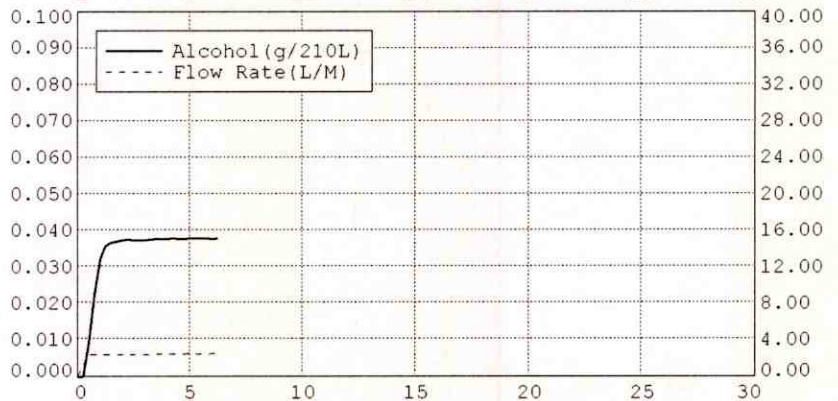
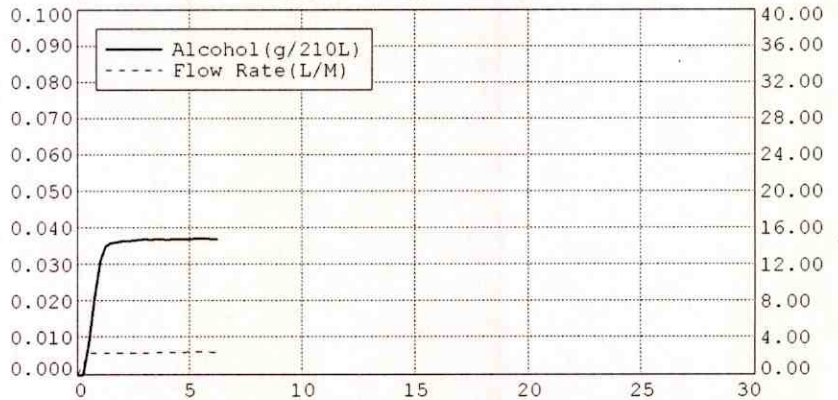
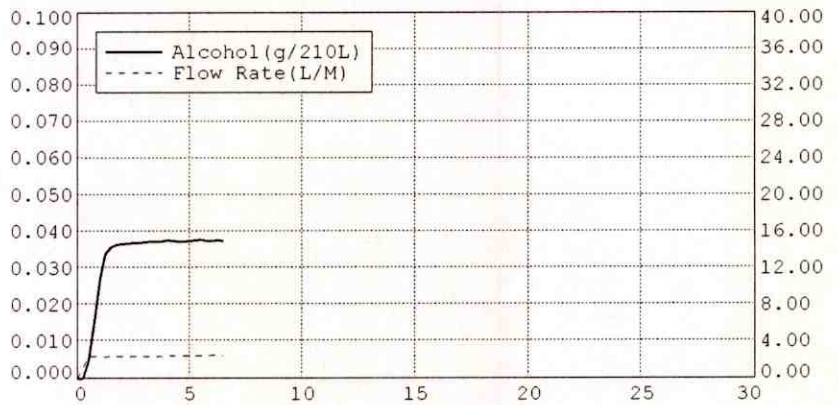
Date: 11/30/2023
 Time: 12:12:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 28.82: 0.039
 LOT #: AG217904
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 829 psi

BLANK TEST	0.000	12:14
INTERNAL STANDARD	VERIFIED	12:14
EXTERNAL STANDARD	0.038	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.038	12:15
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.039	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.039	12:17
BLANK TEST	0.000	12:18
EXTERNAL STANDARD	0.038	12:18
BLANK TEST	0.000	12:19

Average = 0.0384
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

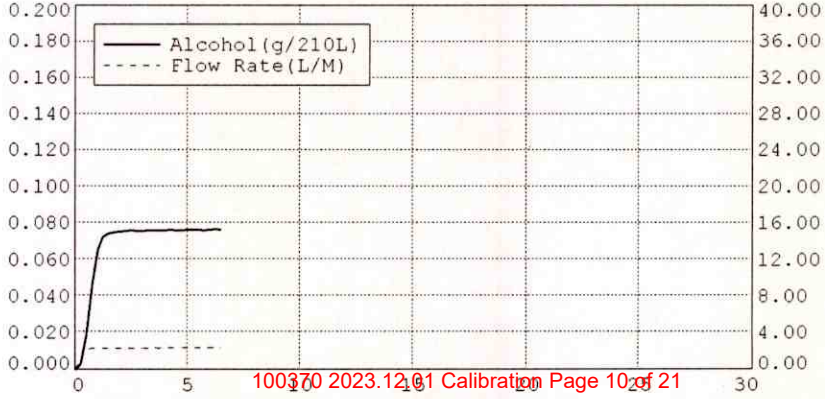
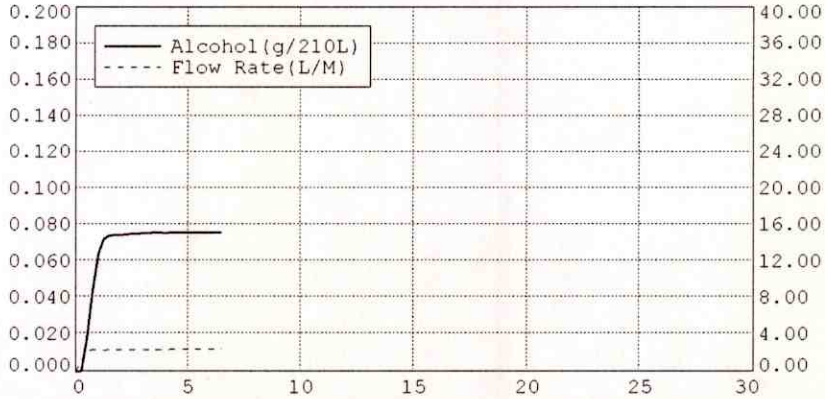
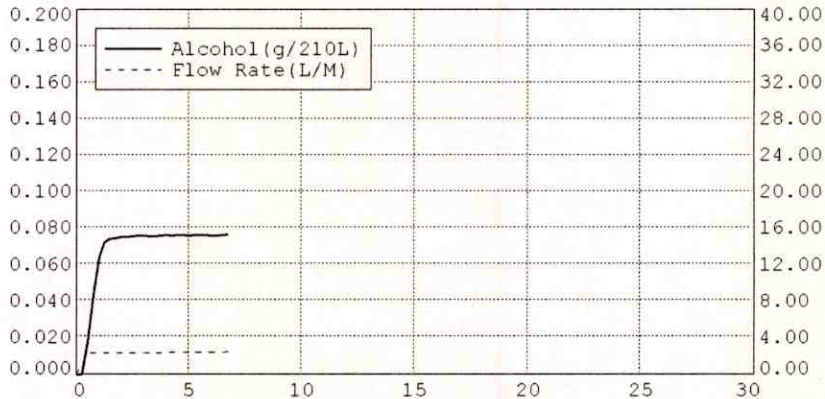
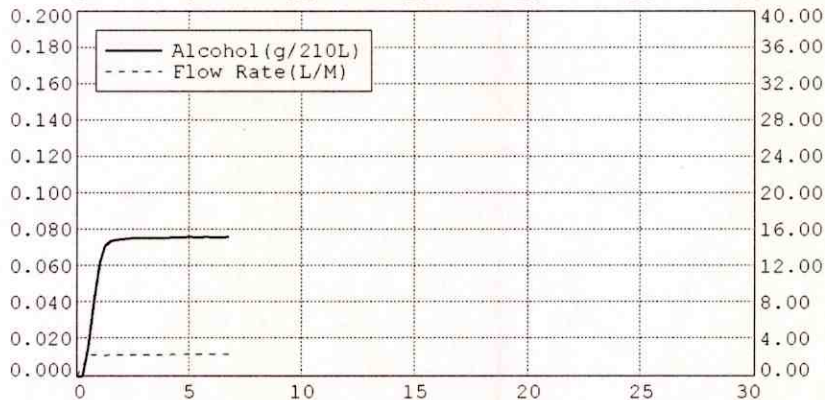
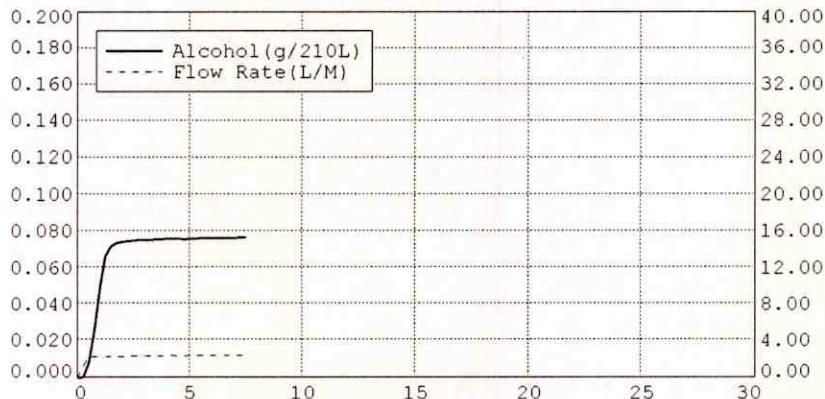
Date: 11/30/2023
 Time: 12:25:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 28.83: 0.077
 LOT #: AG310901
 EXPIRATION: 04/19/2025
 TANK PRESSURE: 556 psi

BLANK TEST	0.000	12:27
INTERNAL STANDARD	VERIFIED	12:27
EXTERNAL STANDARD	0.077	12:27
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.077	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.077	12:29
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.076	12:30
BLANK TEST	0.000	12:31
EXTERNAL STANDARD	0.077	12:32
BLANK TEST	0.000	12:32

Average = 0.0768
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

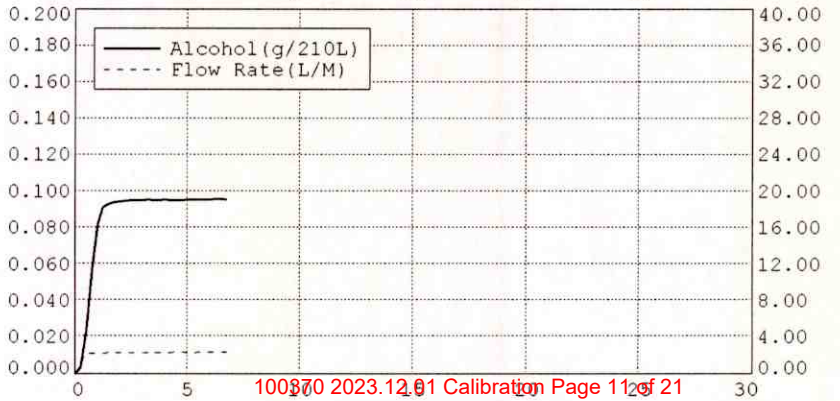
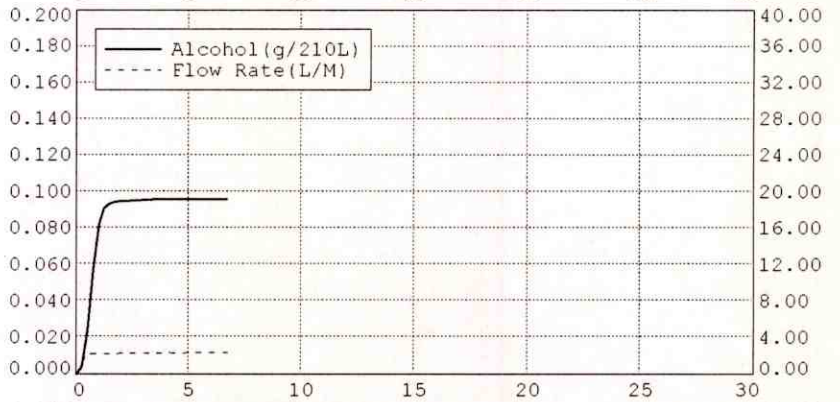
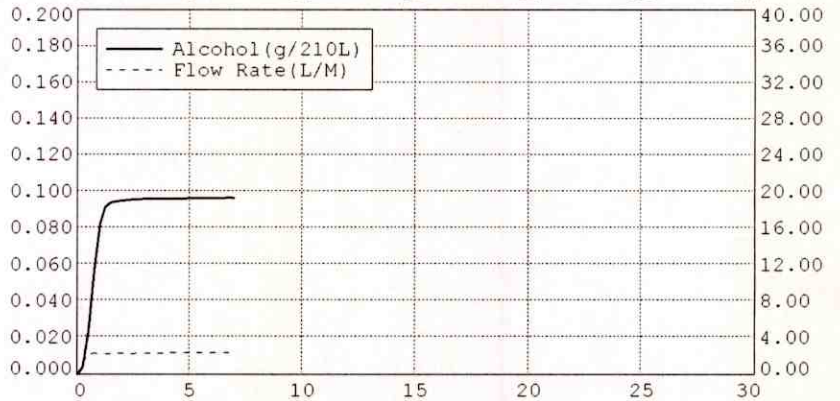
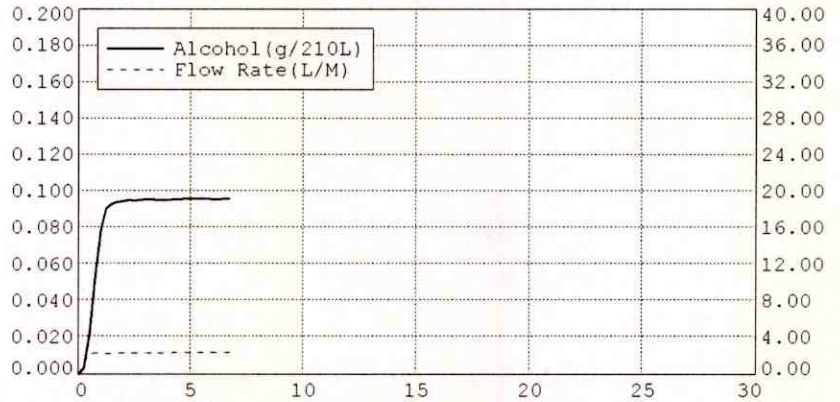
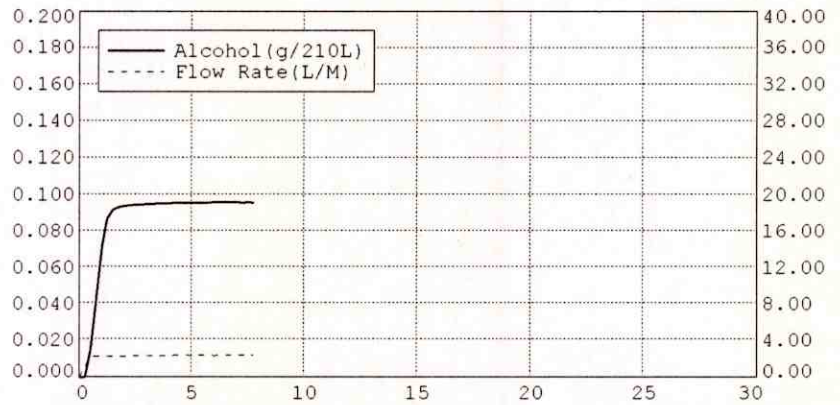
Date: 11/30/2023
 Time: 12:34:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 28.82: 0.096
 LOT #: AG211003
 EXPIRATION: 04/20/2024
 TANK PRESSURE: 489 psi

BLANK TEST	0.000	12:35
INTERNAL STANDARD	VERIFIED	12:35
EXTERNAL STANDARD	0.096	12:35
BLANK TEST	0.000	12:36
EXTERNAL STANDARD	0.096	12:37
BLANK TEST	0.000	12:37
EXTERNAL STANDARD	0.097	12:38
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.096	12:39
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.096	12:40
BLANK TEST	0.000	12:41

Average = 0.0962
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

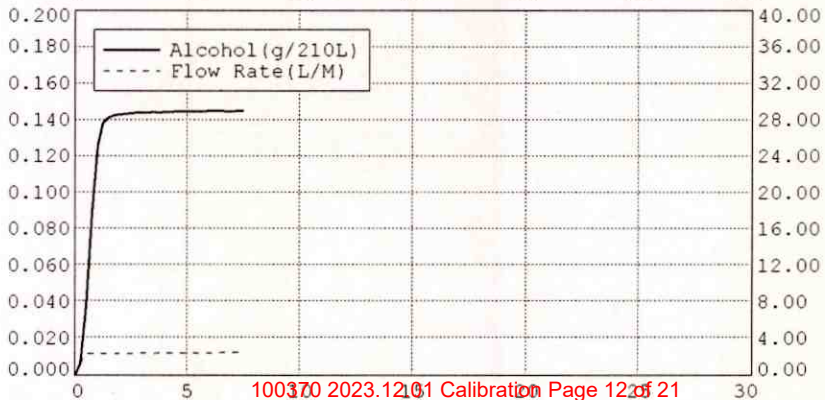
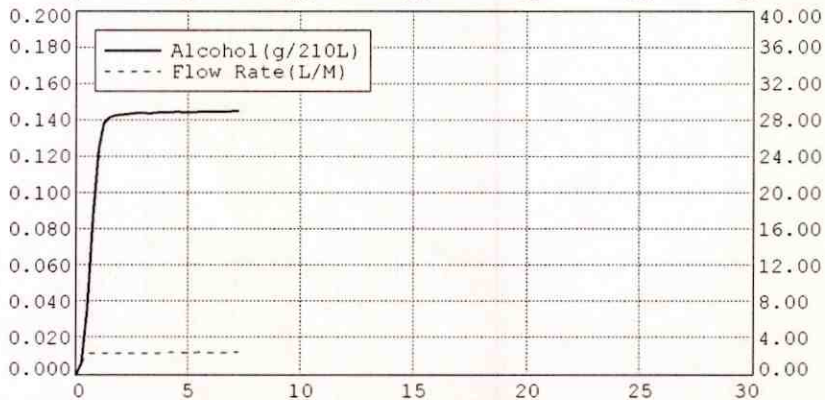
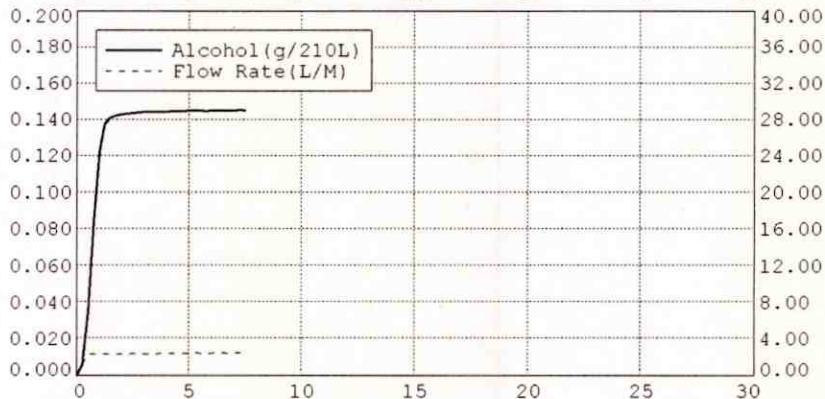
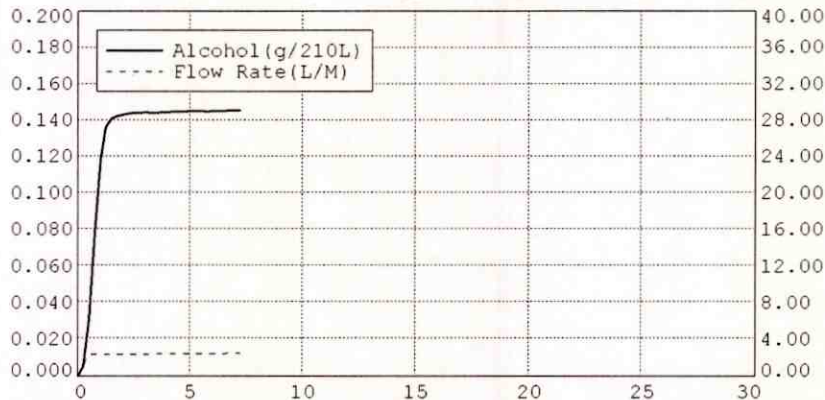
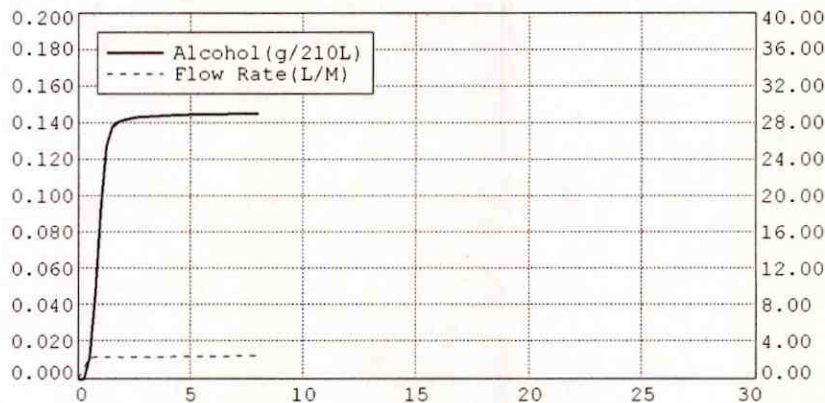
Date: 11/30/2023
 Time: 14:20:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.150
 TARGET AT 28.81: 0.144
 LOT #: AG134205
 EXPIRATION: 12/08/2023
 TANK PRESSURE: 790 psi

BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21
EXTERNAL STANDARD	0.145	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.146	14:23
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.146	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.145	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.145	14:26
BLANK TEST	0.000	14:27

Average = 0.1454
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

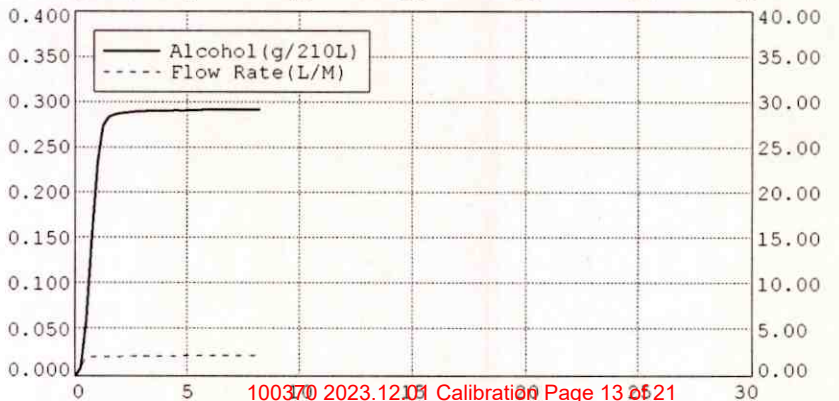
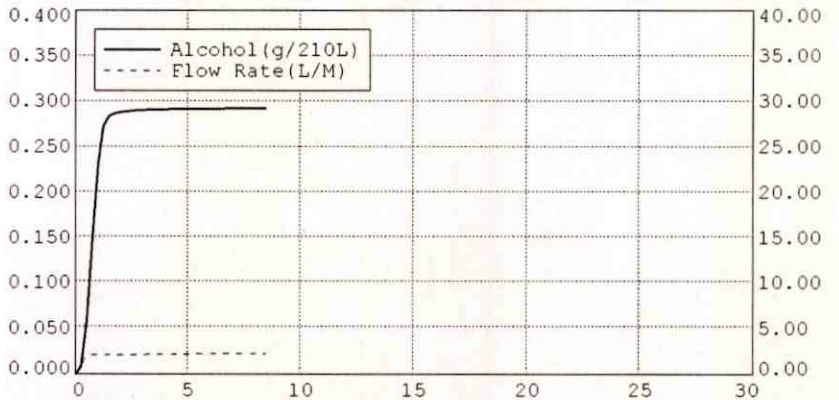
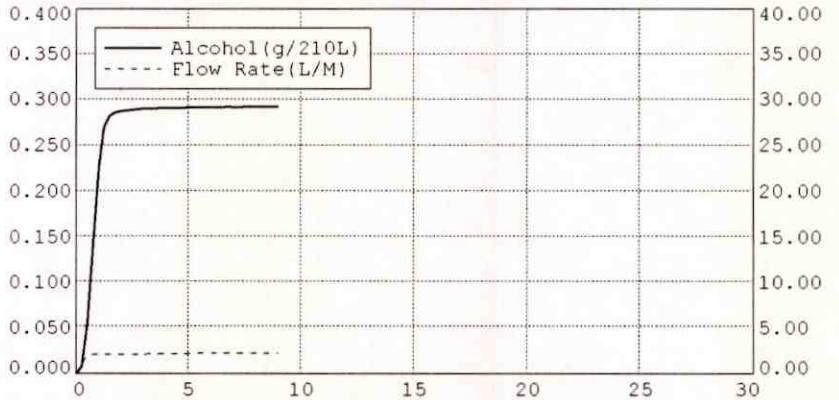
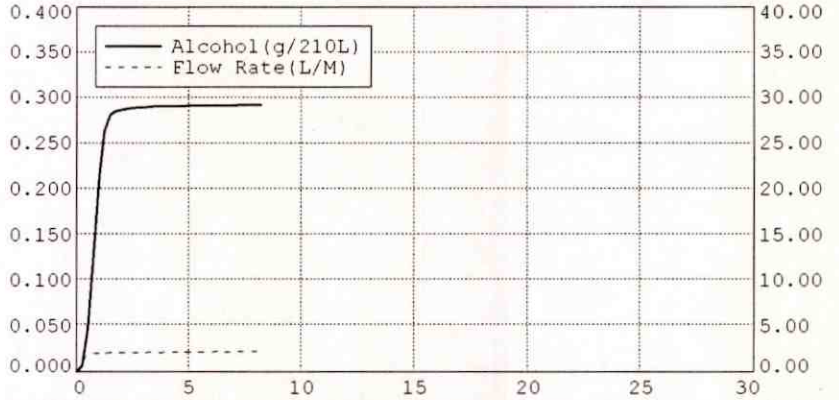
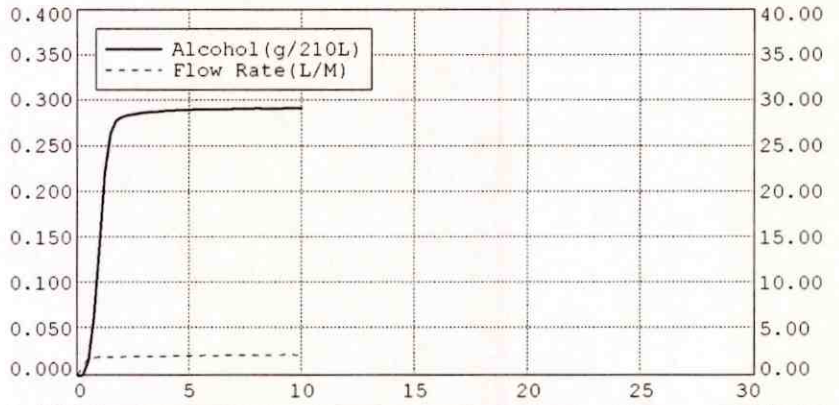
Date: 11/30/2023
 Time: 14:36:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 28.82: 0.289
 LOT #: AG217903
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 148 psi

BLANK TEST	0.000	14:37
INTERNAL STANDARD	VERIFIED	14:38
EXTERNAL STANDARD	0.291	14:38
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.292	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.292	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.292	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.292	14:42
BLANK TEST	0.000	14:43

Average = 0.2918
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 11/30/2023
Time: 14:58:37

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

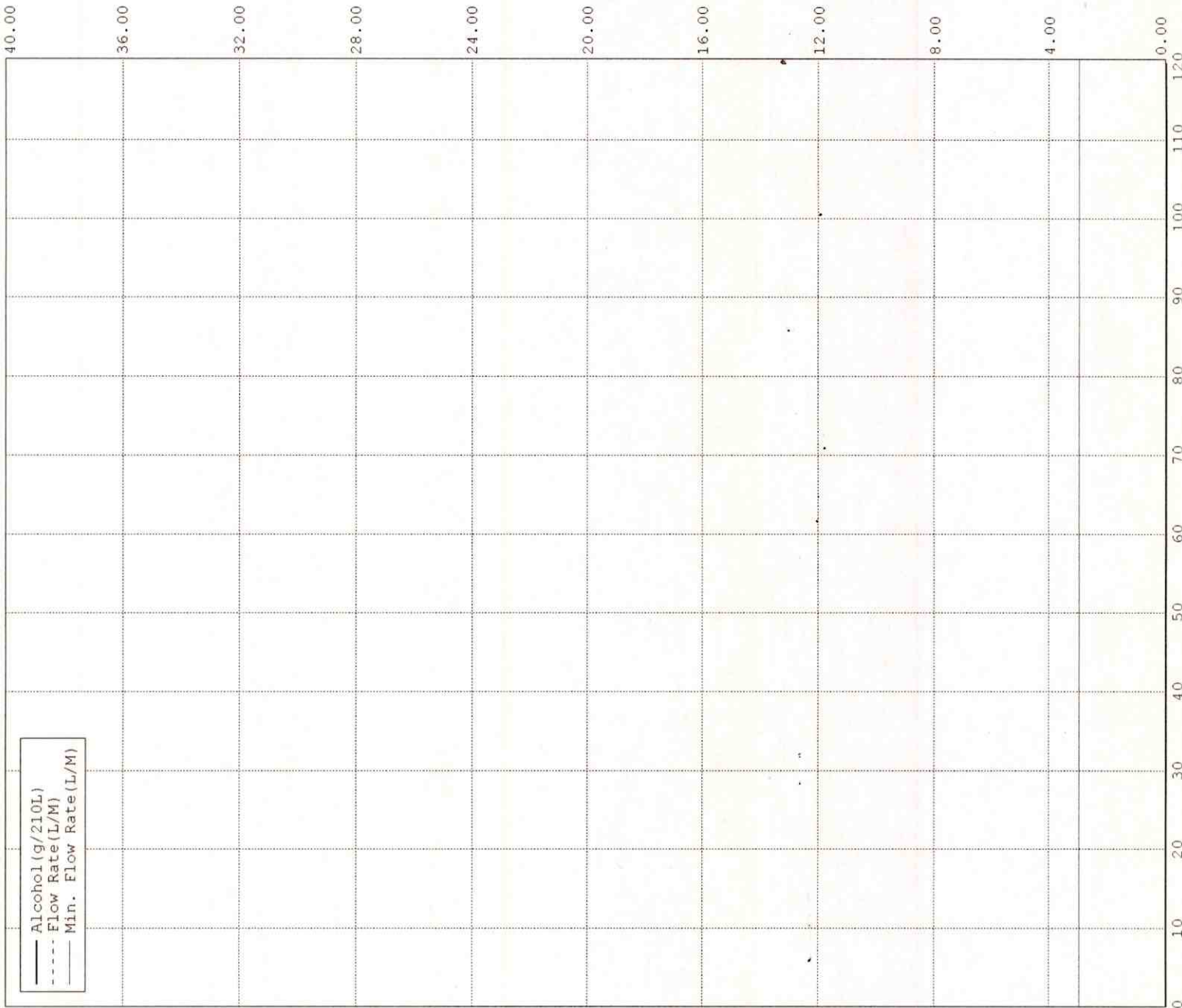
DEPT/AGENCY:
INCOMPLETE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.84: 0.077
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK PASSED 15:04
BLANK TEST 0.000 15:04
INTERNAL STANDARD VERIFIED 15:04
EXTERNAL STANDARD 0.078 15:04
BLANK TEST 0.000 15:05
SUBJECT SAMPLE INCOMPLETE 15:07

CY6



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 12/01/2023
Time: 08:48:30

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

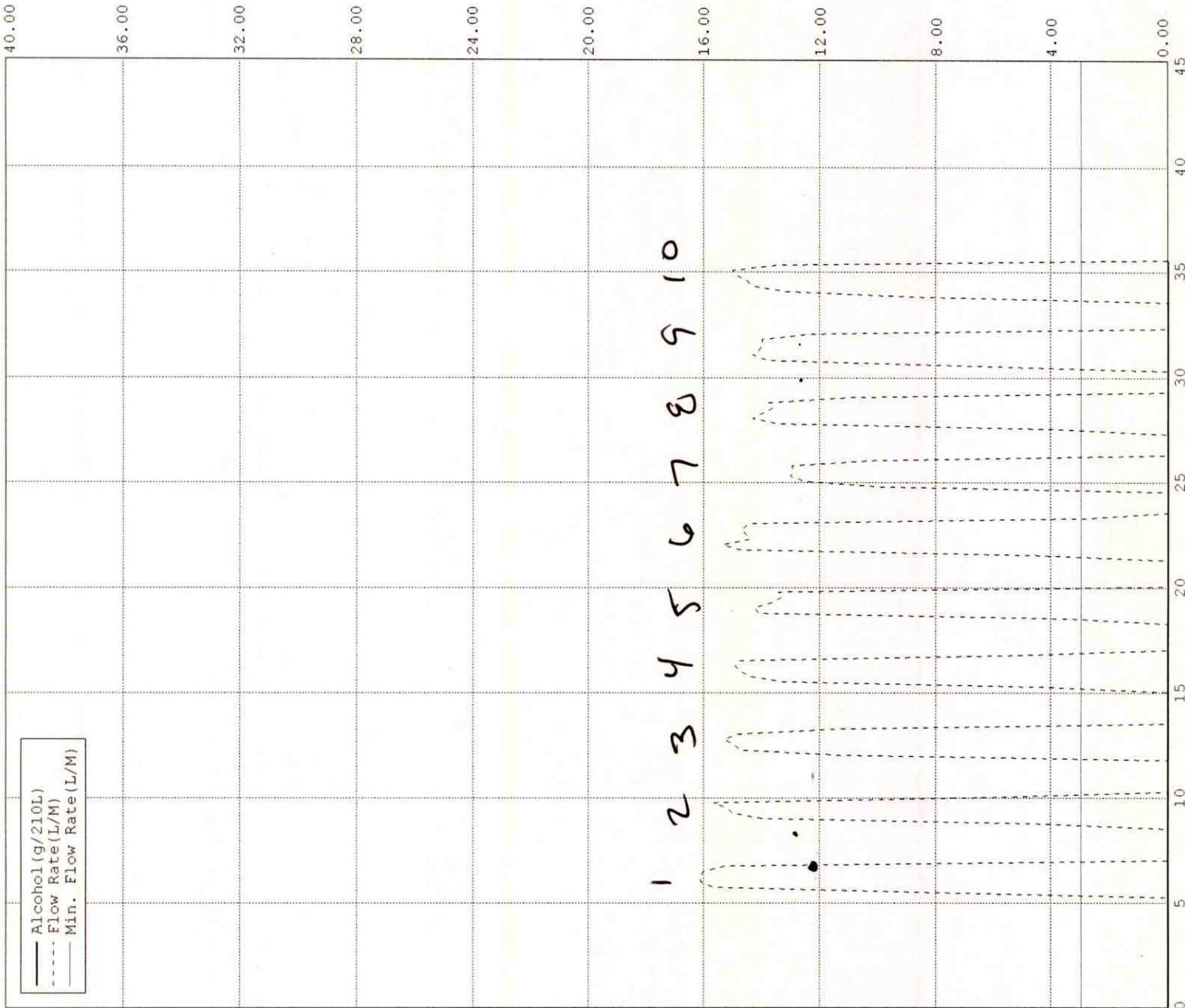
DEPT/AGENCY:
MAXIMUM ATTEMPTS EXCEEDED
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.95: 0.077
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK PASSED 08:49
BLANK TEST 0.000 08:49
INTERNAL STANDARD VERIFIED 08:50
EXTERNAL STANDARD 0.077 08:50
BLANK TEST 0.000 08:51
SUBJECT SAMPLE XXX 08:51

Maximum Attempts Exceeded

OKG



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 12/01/2023
Time: 09:08:05

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

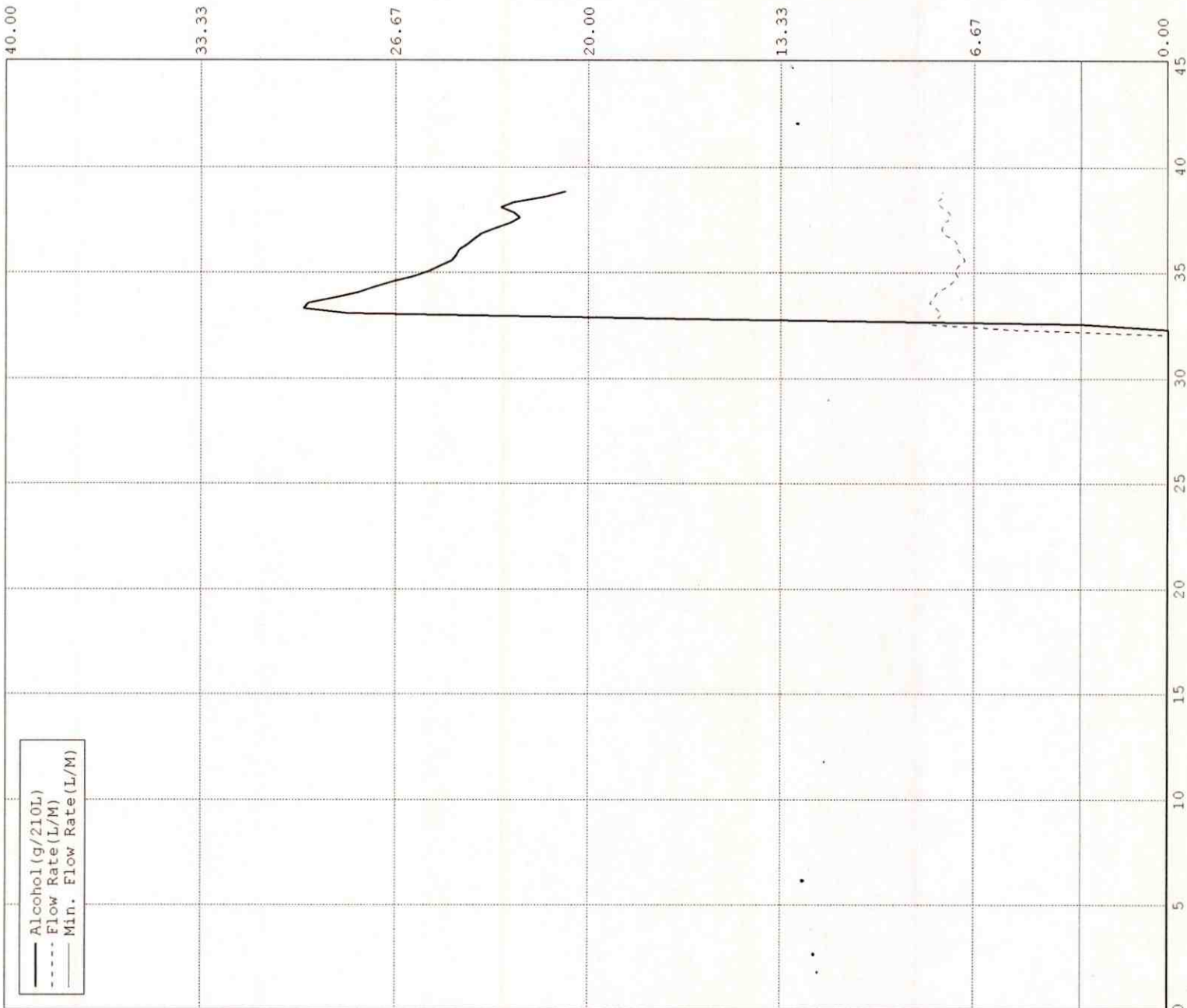
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.95: 0.077
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK PASSED 09:12
BLANK TEST 0.000 09:12
INTERNAL STANDARD VERIFIED 09:12
EXTERNAL STANDARD 0.077 09:12
BLANK TEST 0.000 09:13
SUBJECT SAMPLE INVALID 09:14

Handwritten signature



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 12/01/2023
Time: 09:24:04

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

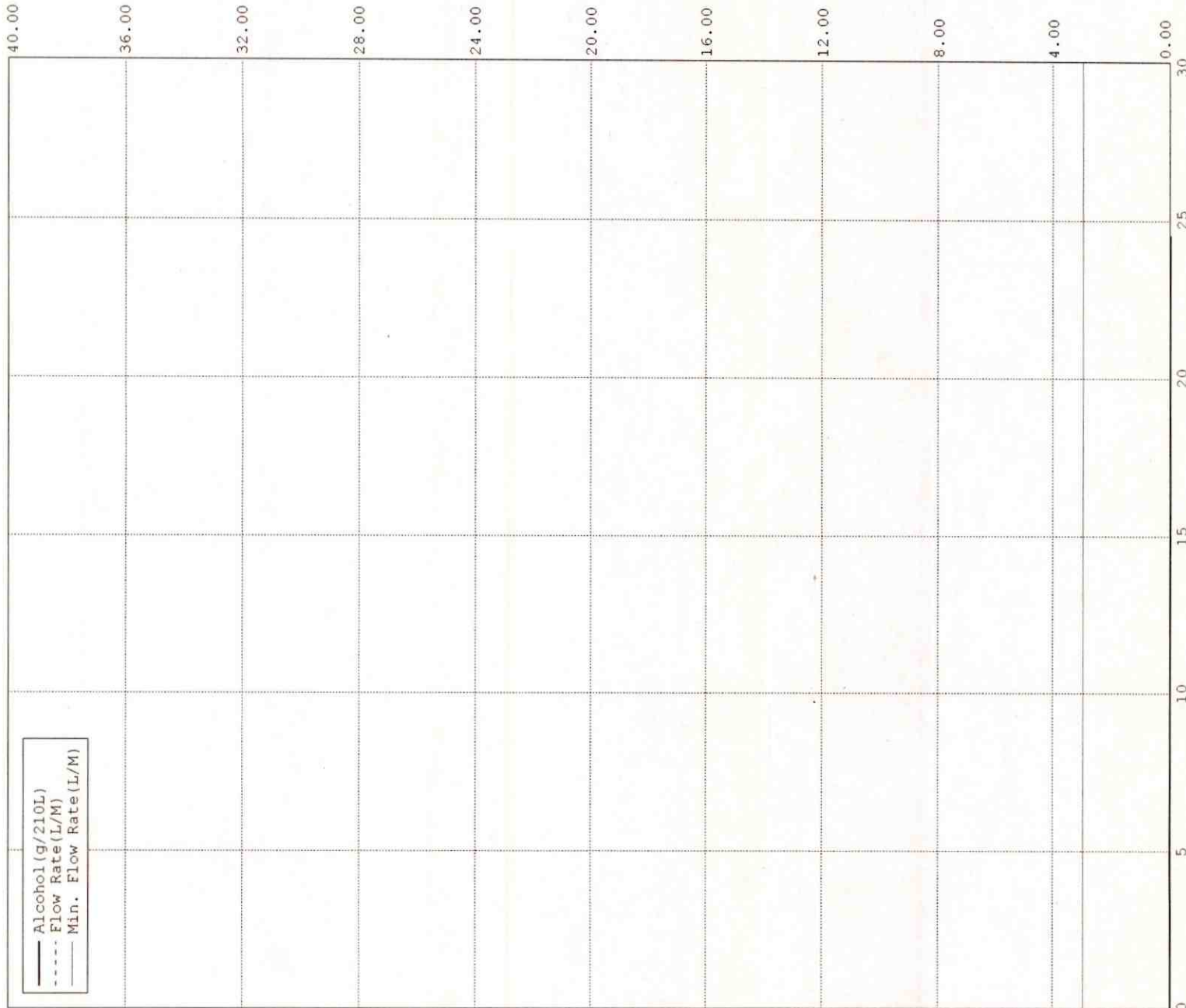
DEPT/AGENCY:
RFI
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.95: 0.077
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK PASSED 09:25
BLANK TEST 0.000 09:25
INTERNAL STANDARD VERIFIED 09:25
EXTERNAL STANDARD 0.077 09:26
BLANK TEST 0.000 09:27

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 12/01/2023
Time: 09:57:27

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

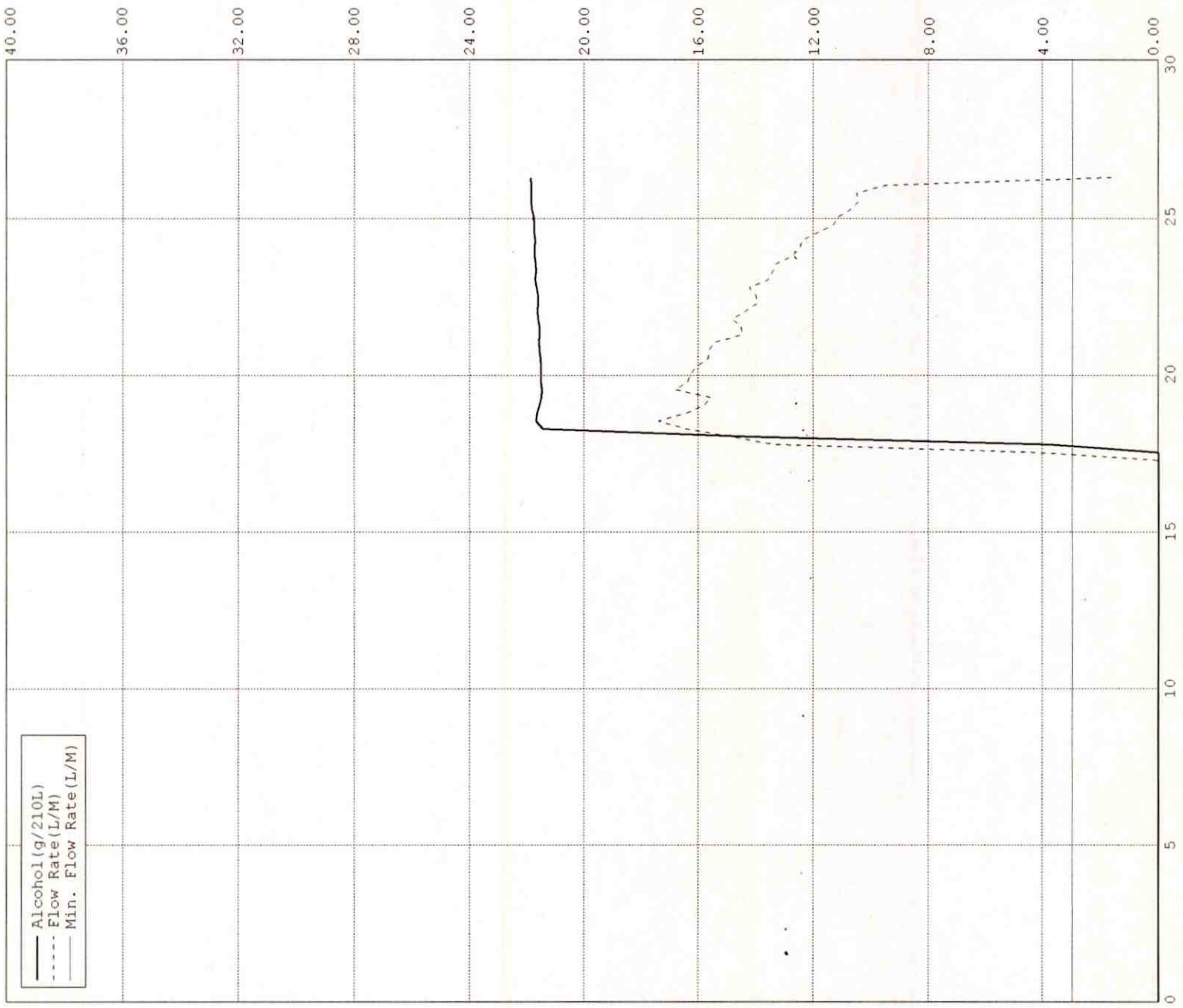
DEPT/AGENCY:
INTERFERENCE ACETONE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.96: 0.077
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK PASSED 09:59
BLANK TEST 0.000 09:59
INTERNAL STANDARD VERIFIED 09:59
Xq = 0.091 (2.85%)
EXTERNAL STANDARD 0.078 09:59
X[1] = 0.0778 (0.0015) (0.0023)
BLANK TEST 0.000 10:00
SUBJECT SAMPLE XXX 10:01
X[1] = 0.1095 (-0.0226) (0.0009)

Interference Detected

Filter 2 Average: 0.0010
Filter 3 Average: 0.0020
CMB- 12/14/23



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 12/01/2023
Time: 09:51:16

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

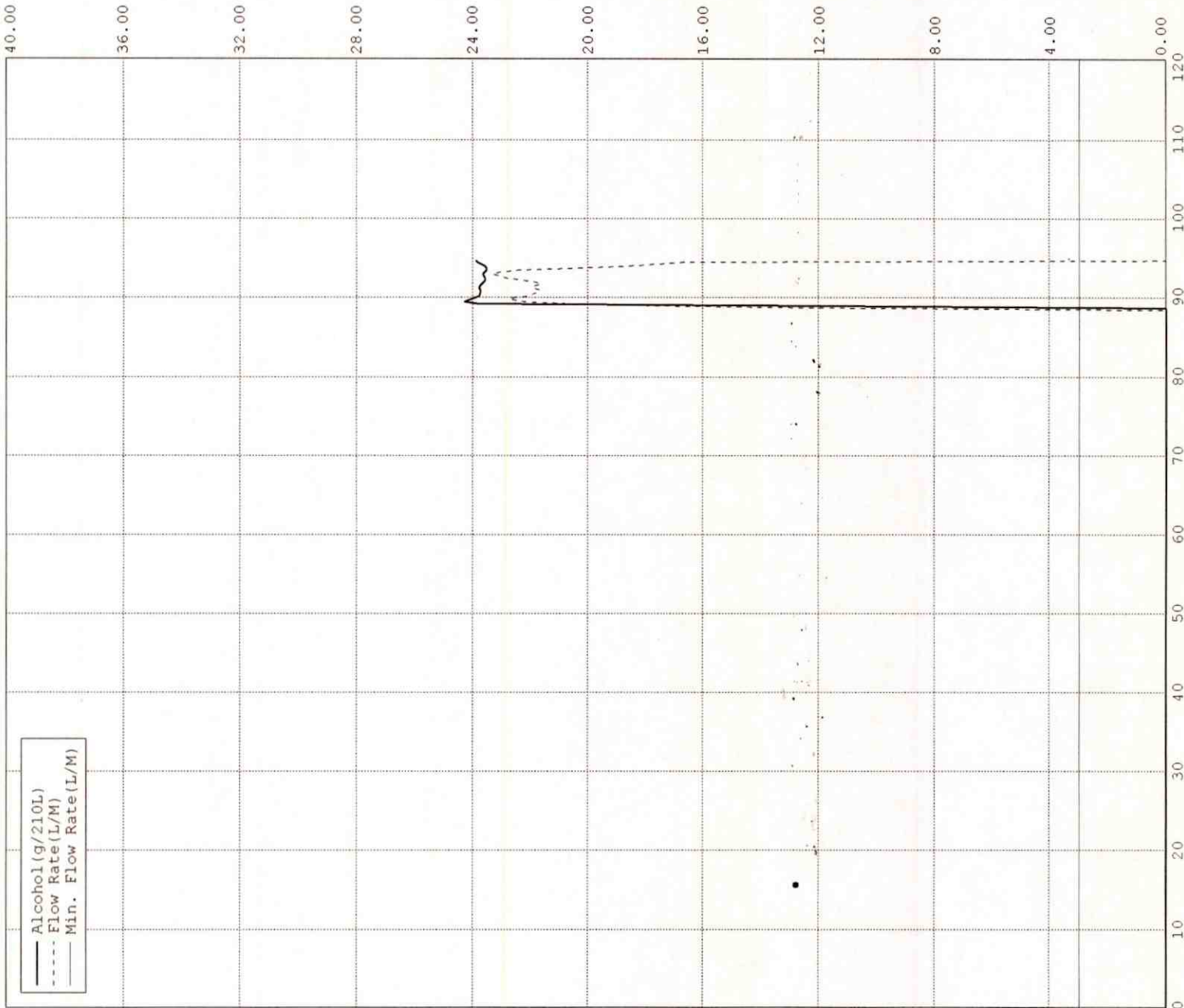
DEPT/AGENCY:
INTERFERENCE IPA
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.96: 0.077
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK PASSED 09:52
BLANK TEST 0.000 09:52
INTERNAL STANDARD VERIFIED 09:52
Xq = 0.091 (2.36%) 0.078 09:52
EXTERNAL STANDARD 0.0018) (0.0018)
BLANK TEST 0.000 09:53
SUBJECT SAMPLE XXX 09:55
X[1] = 0.1195 (-0.0297) (0.0016)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100370

Date: 12/01/2023
 Time: 09:44:17

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

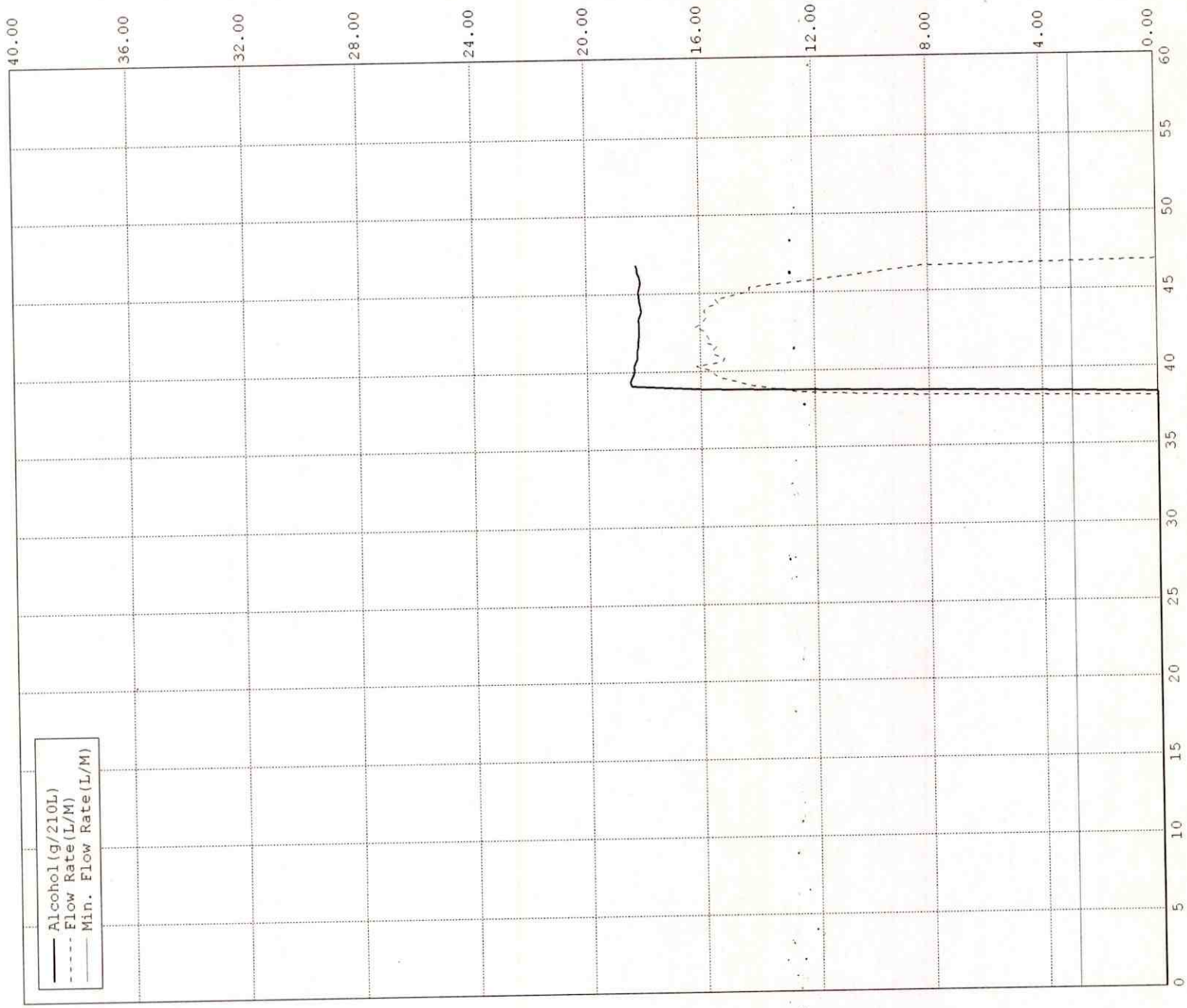
DEPT/AGENCY:
 INTERFERENCE NEGATIVE
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 28.96: 0.077
 LOT #: AG310901
 EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	09:45
BLANK TEST	0.000	09:45
INTERNAL STANDARD	VERIFIED	09:45
Xg = 0.091 (2.06%)	0.077	09:45
EXTERNAL STANDARD	0.000	09:46
X[1] = 0.0770 (0.0003)	(0.0025)	09:47
BLANK TEST	0.000	09:47
SUBJECT SAMPLE (Vol=2.04L)	0.091	09:47
X[1] = 0.0916 (-0.0027)	(0.0004)	09:48
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.077	09:48
X[1] = 0.0766 (0.0008)	(0.0013)	09:49
BLANK TEST	0.000	09:49

CMW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100370

Date: 12/01/2023
Time: 10:23:33

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 28.96: 0.077
LOT #: AG310901
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	10:30
BLANK TEST	0.000	10:30
INTERNAL STANDARD	VERIFIED	10:30
EXTERNAL STANDARD	0.077	10:31
BLANK TEST	0.000	10:31
SUBJECT SAMPLE (Vol=1.65L)	0.000	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.077	10:33
BLANK TEST	0.000	10:34

CVG

