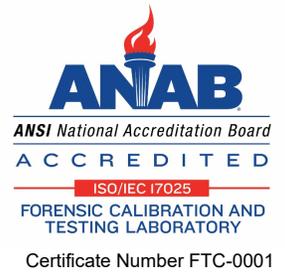




State of Alaska
 Department of Public Safety
Scientific Crime Detection Laboratory

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: 100406

Report Issue Date: 03/12/2026
Date Received: 2025-11-03
Condition of Item: No apparent damage

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

Unable to complete evaluation due to gas flow error during tank change/VOC attempt. Recommend repair.

As-Left Data

Nominal Values (g/210L)	Target Values (g/210L)	Lot Number	Results (g/210L)					Mean (g/210L)	Uncertainty (g/210L)
0.020	0.020	AG515609	0.020	0.020	0.020	0.020	0.019	0.020	+/- 0.002
0.040	0.040	AG515608	0.040	0.040	0.040	0.039	0.040	0.040	+/- 0.003
0.080	0.079	AG436502	0.079	0.079	0.079	0.079	0.079	0.079	+/- 0.004
0.100	0.099	AG515610	0.099	0.099	0.099	0.099	0.099	0.099	+/- 0.004
0.150	0.149	AG515604	0.148	0.147	0.148	0.147	0.148	0.148	+/- 0.006
0.300	0.297	AG516110	0.295	0.294	0.293	0.294	0.294	0.294	+/- 0.012

As Left Conditions - Barometric Pressure (inHg): 29.64 Barometer Used: VWR S/N 240680771 Temperature (C): 22.0 Relative Humidity (%): 1

As-Left Lab Activity Date Range: 03/09/2026 - 03/09/2026

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 03/09/2026

carlie.glaister@alaska.gov

Technically and administratively reviewed by Colleen O'Bryant on 03/12/2026

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 1/23/2024

Version: 4.0

Instrument #: 100406 Analyst or Technician Name: Carlie Glaister

DataMaster DMT Calibration Start Date: 3/9/26

Diagnostic Test

- Perform Diagnostic Test (View Details)
- Internal Standard Value \leq 3.00%

Technician Screen and Calibration Factors

- Adjust Voltages (if needed)
 - Lamp (2.60 V Maximum)
 - Bias
 - Cooler (2.00 V Maximum)
 - Chopper Frequency
 - Detector Voltage (-0.100V to 0.100V)
- Set RFI Sensitivity
- Adjust internal barometer reading to match NIST-traceable barometer
Barometer/Thermometer/Hygrometer S/N: 240680771
Calibration Due Date: 9/10/2026
- Verify Volume Setting (1.50 L +/- 0.10 L), adjust if needed
- Print Technician Screen
- Print "Cal Factors"

Minimum Volume Test

- Perform Minimum Volume (Subject) Test: 1.5 liters (1.3 L to 1.7 L)

As Left Linearity Testing

Barometric Pressure (in Hg) 29.64 Temperature(C) 22.0 Relative Humidity(%) 1

Approved Concentrations (g/210L): 0.020, 0.040, 0.080, 0.100, 0.150, 0.300

Functional Tests

- Incomplete
- Invalid
- Maximum Attempts Exceeded
- Radio Frequency Interference (RFI)
- Interference (Volatiles) - *Print with View Details*

- Acetone Reagent Lot Number: 2026028008 Expiration Date: 5/18/26 / 3/19/27
Simulator S/N: SD1088 Thermometer Verification Performed?
- Isopropanol Reagent Lot Number: 20260218008 Expiration Date: 5/18/26 / 3/19/27
Simulator S/N: SD1199 Thermometer Verification Performed?
- Negative (Ethanol Only) Lot Number: 25CP41280 Expiration Date: 3/19/27 (5/18/26 prep)
Simulator S/N: SD1177 Thermometer Verification Performed?

Calibrated External Thermometer S/N: 250159297
Calibration Due Date: 3/14/27

Administrative

- Verify Stylus Calibration
- Reset Options
- Clear Memory
- Verification of Calibration (VOC)
- Perform Non-Drinking Subject Test
- Upload Instrument
- Remove Dry Gas Tank Before Shutdown
- Add Ready for Tech Review Note

Completion

Lab Work End Date: 3/9/26

Data Interpretation Date (Technician): CKG (if applicable)

Data Interpretation Date (Analyst): NA 3/9/2026 CKG

All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 03/09/2026
Time: 10:56:01

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 43.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.68 V PASSED
(1.07 V - 2.51 V)
Cooler Voltage = 1.94 V PASSED
(1.07 V - 2.51 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 529 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.575 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 = 0.085 0.41% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100406

Date: 03/09/2026
Time: 11:04 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 44.7°C

Current Barometer 29.6 in
Volume (Ltr) 1.56

Settings

Lamp: 1.68 V
Bias: 80 V
Cooler: 1.94 V
Chopper: 529 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.027 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 06/14/2021
Time: 06:49:18

OPERATOR NAME:
INTOX I METERS
CERTIFICATE #: TEST

Ca = 0.1000
CAL = 0.983721 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0062 0.0010 <= b2 < 0.0100
b3 = 0.0009 0.0000 <= b3 < 0.0040
Xq = 0.0850 0.0500 <= Xq < 0.2000
a21 = 1.190258 1.050 <= a21 < 1.300
a31 = 0.460872 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 03/09/2026
Time: 11:09:30

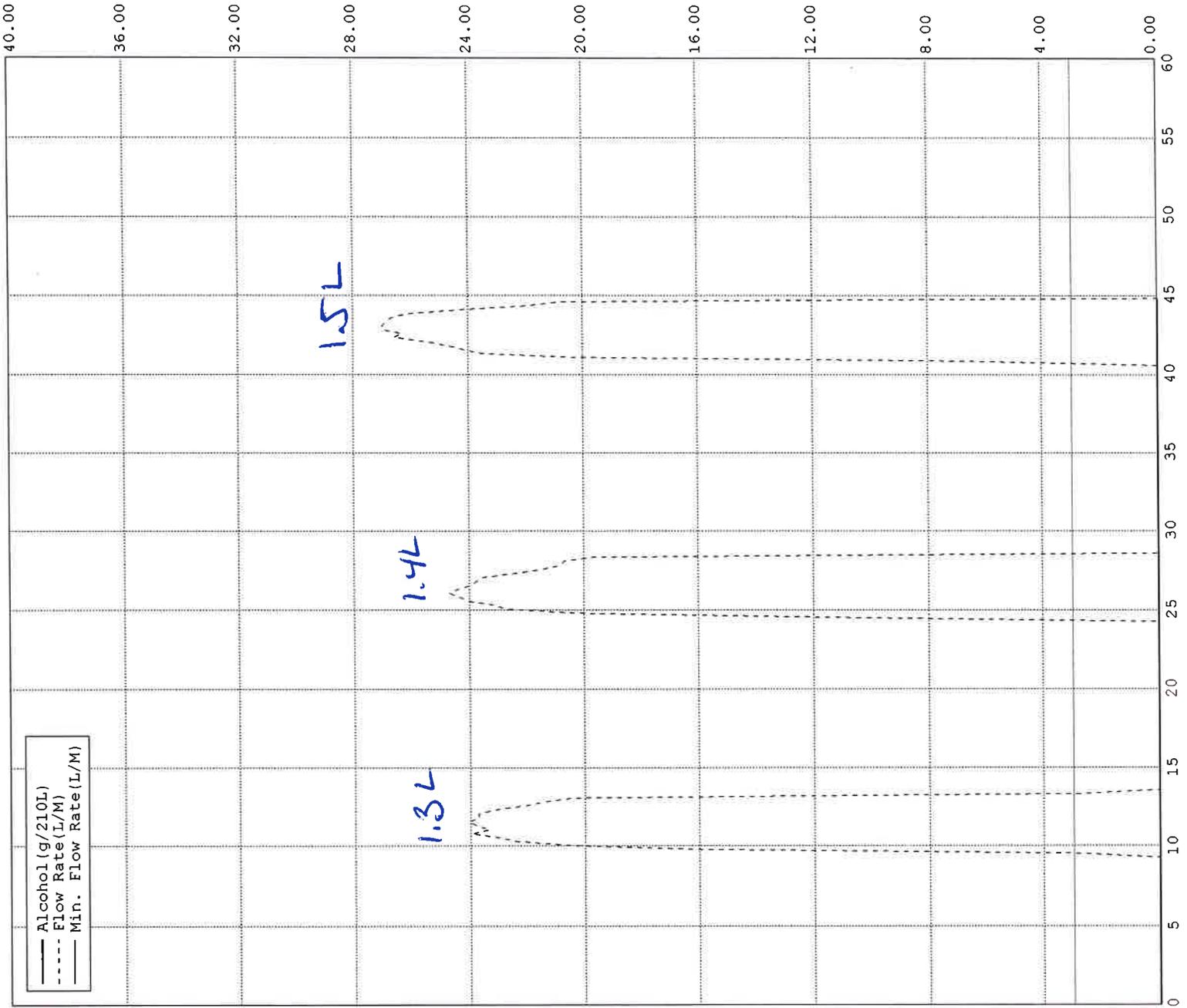
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.64: 0.079
LOT #: AG436502
EXPIRATION: 12/30/2026

DIAGNOSTIC CHECK	PASSED	11:11
BLANK TEST	0.000	11:11
INTERNAL STANDARD	VERIFIED	11:11
EXTERNAL STANDARD	0.080	11:11
BLANK TEST	0.000	11:12
SUBJECT SAMPLE (Vol=1.58L)	0.000	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.080	11:14
BLANK TEST	0.000	11:15



LINEARITY CHECK

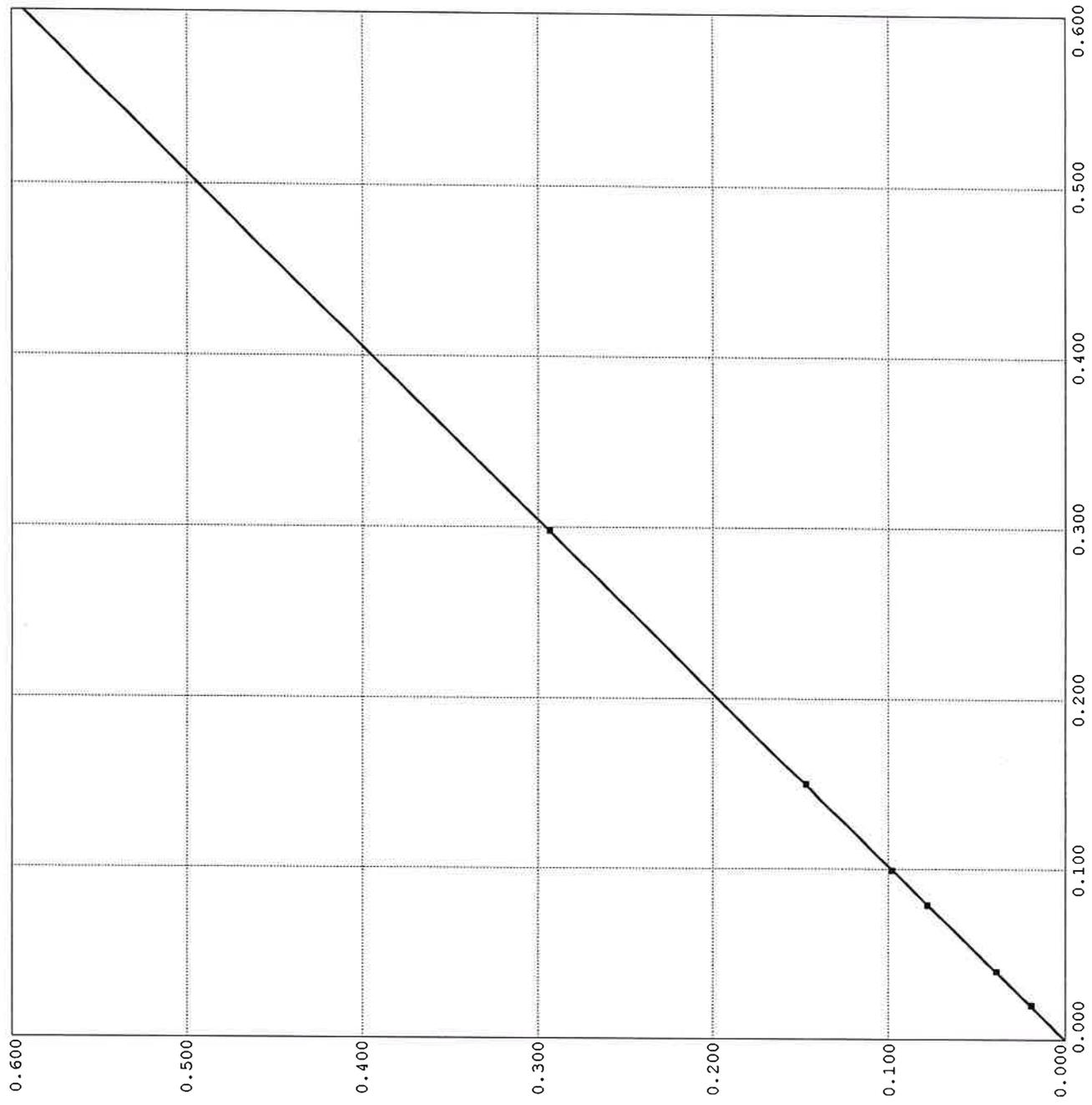
 Alaska Department of Public Safety
 DATAMASTER dmt: 100406

Date: 03/09/2026
 Time: 11:19:27

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.040	0.0398	0.0004
0.079	0.0790	0.0000
0.099	0.0990	0.0000
0.149	0.1476	0.0005
0.297	0.2940	0.0007

SLOPE = 0.988818
 R² = 0.999982



CG

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100406

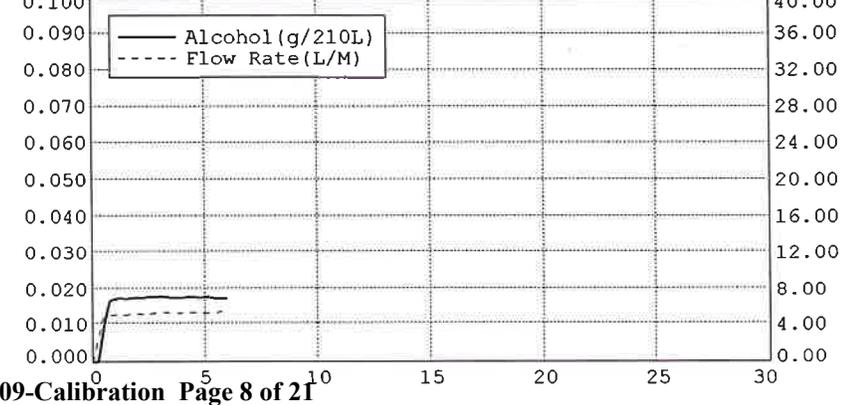
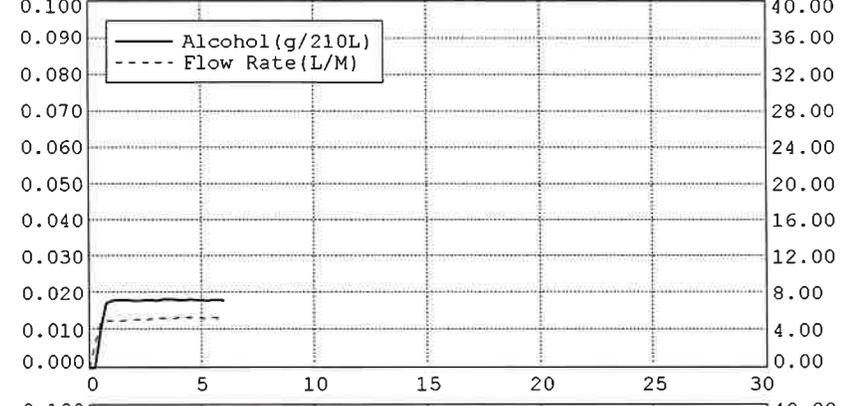
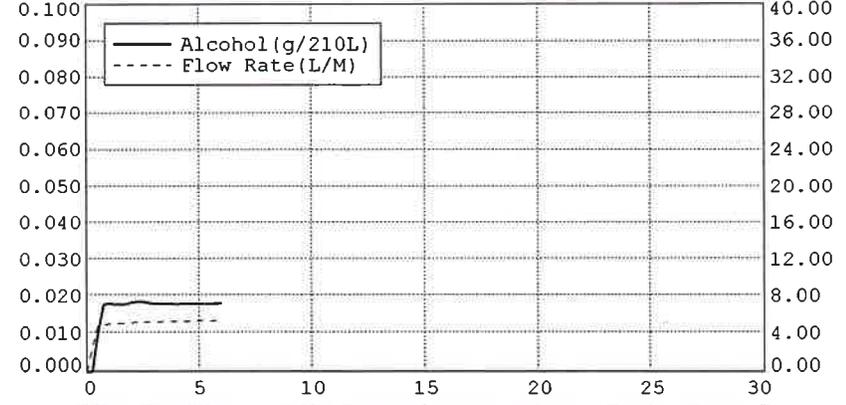
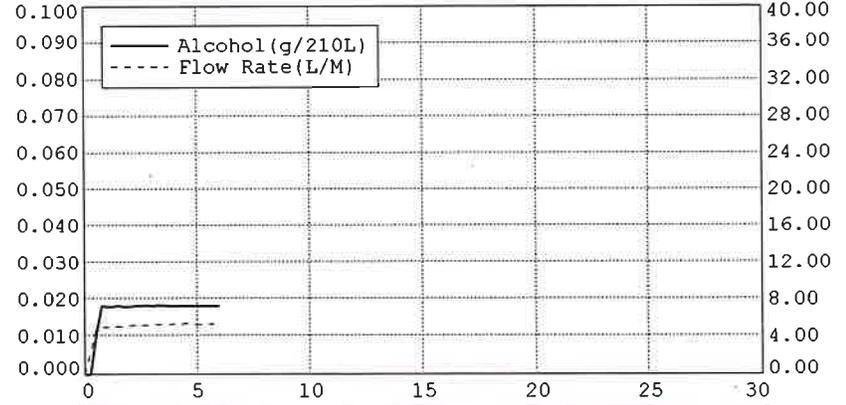
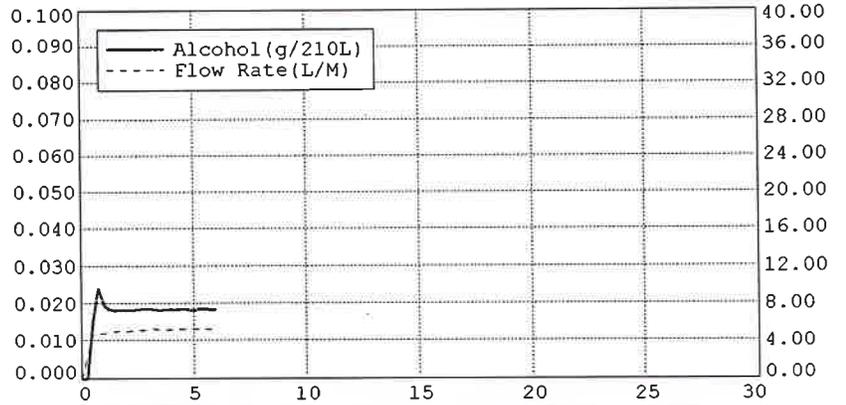
Date: 03/09/2026
Time: 11:19:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.63: 0.020
LOT #: AG515609
EXPIRATION: 06/05/2027
TANK PRESSURE: 1120 psi

BLANK TEST	0.000	11:20
INTERNAL STANDARD	VERIFIED	11:20
EXTERNAL STANDARD	0.020	11:21
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.020	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.020	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.020	11:24
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.019	11:25
BLANK TEST	0.000	11:26

Average = 0.0198
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100406

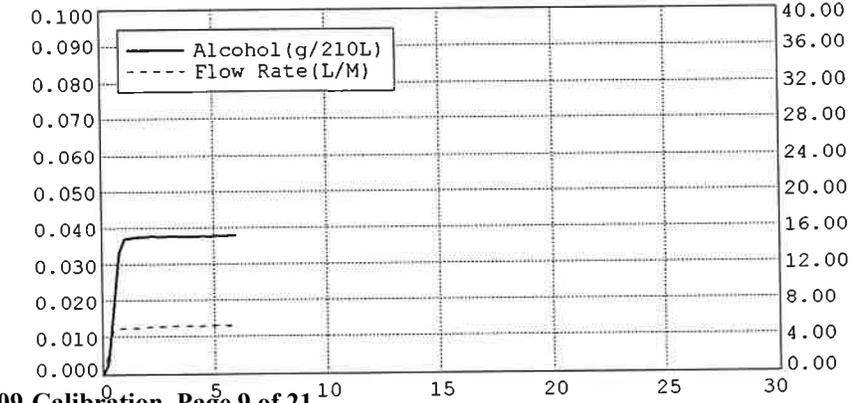
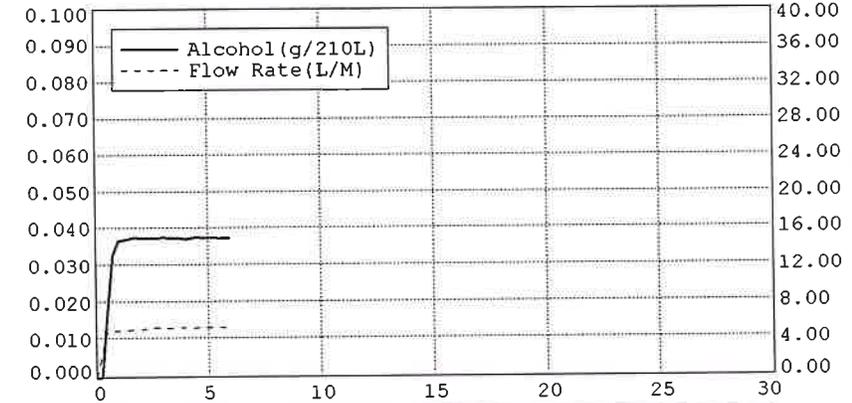
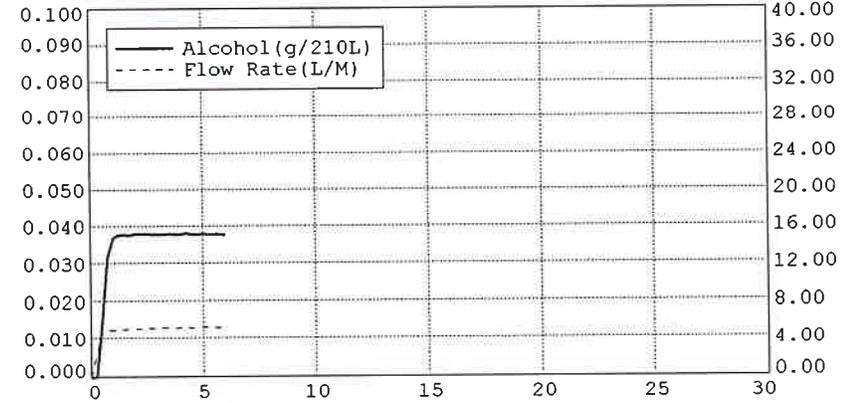
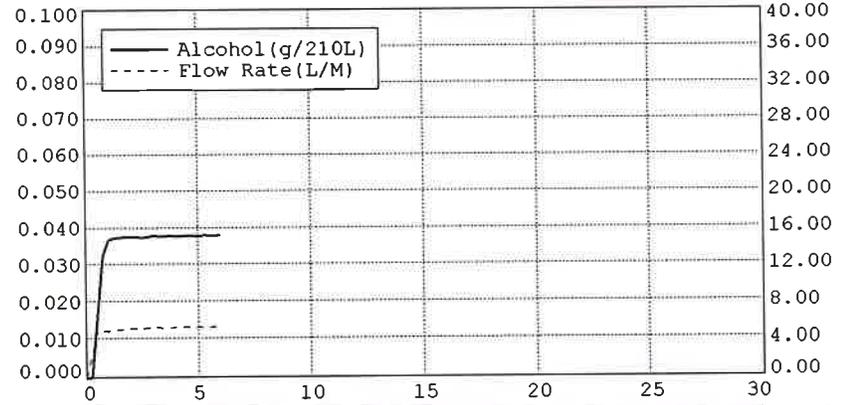
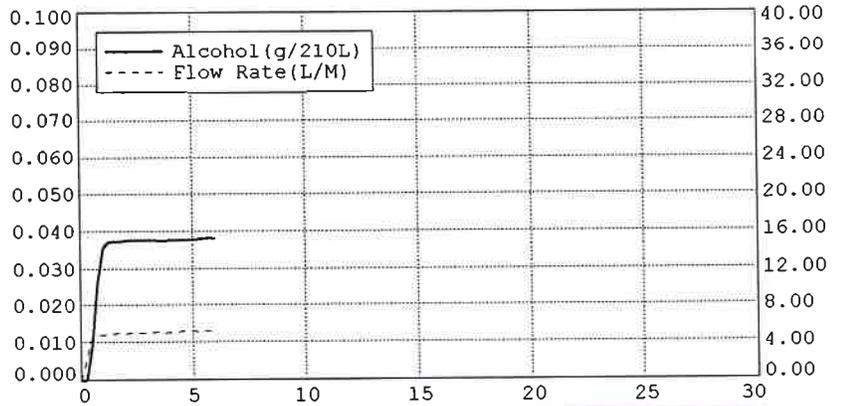
Date: 03/09/2026
 Time: 11:27:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.64: 0.040
 LOT #: AG515608
 EXPIRATION: 06/05/2027
 TANK PRESSURE: 1113 psi

BLANK TEST	0.000	11:28
INTERNAL STANDARD	VERIFIED	11:28
EXTERNAL STANDARD	0.040	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.040	11:30
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.040	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.039	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.040	11:33
BLANK TEST	0.000	11:34

Average = 0.0398
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100406

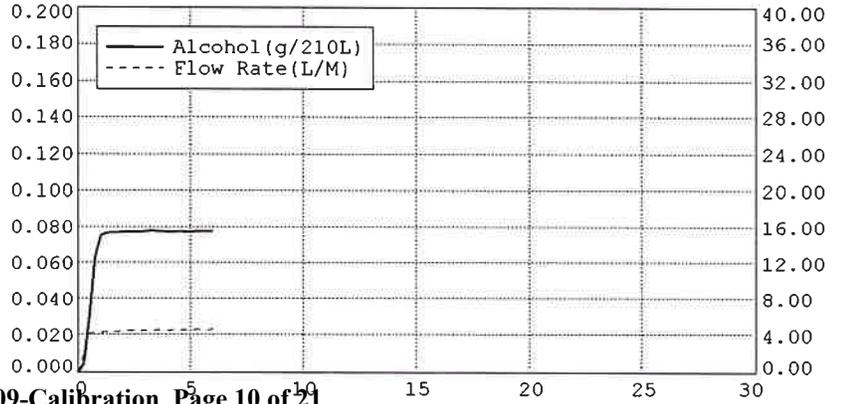
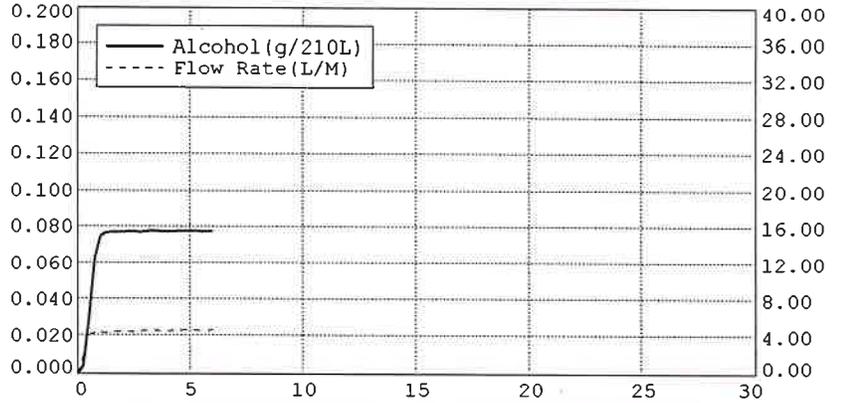
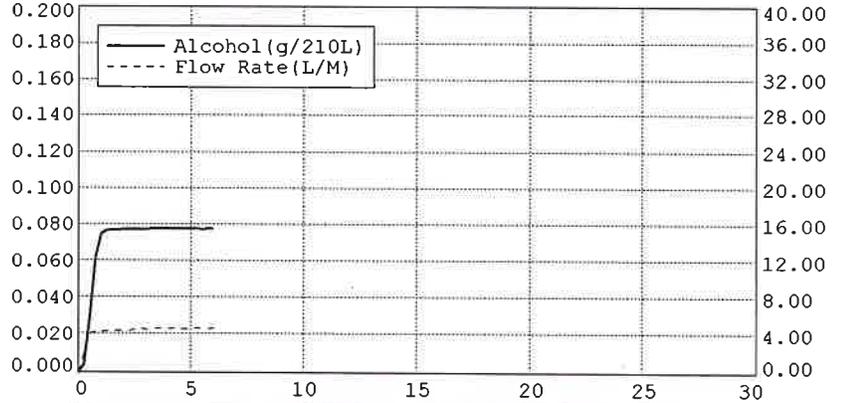
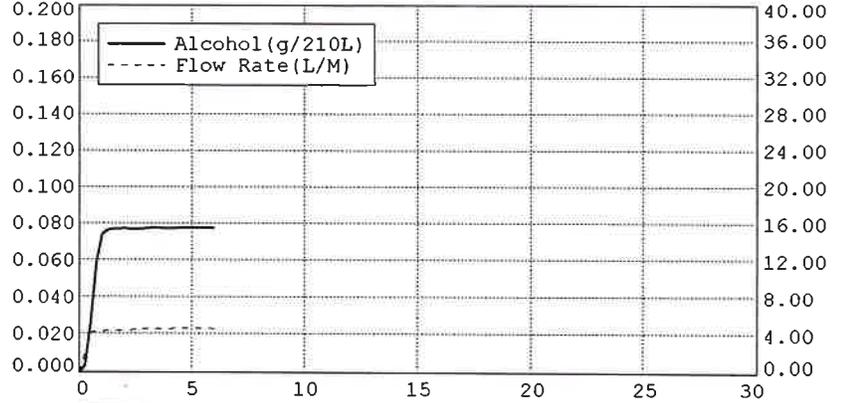
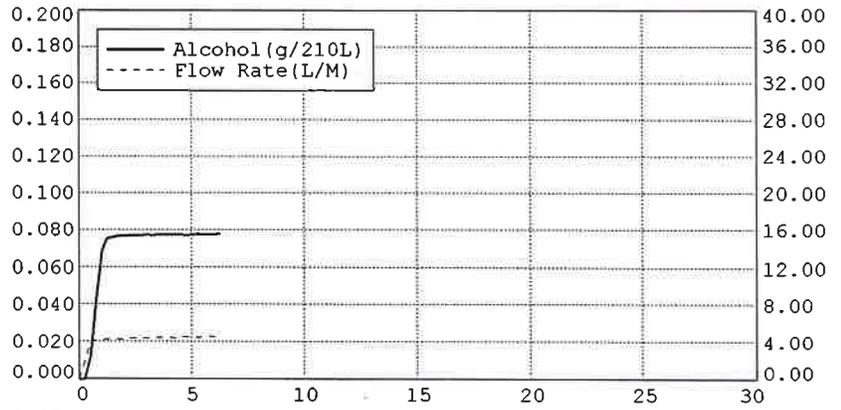
Date: 03/09/2026
Time: 11:35:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG436502
EXPIRATION: 12/30/2026
TANK PRESSURE: 781 psi

BLANK TEST	0.000	11:37
INTERNAL STANDARD	VERIFIED	11:37
EXTERNAL STANDARD	0.079	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.079	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.079	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.079	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.079	11:42
BLANK TEST	0.000	11:42

Average = 0.0790
Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100406

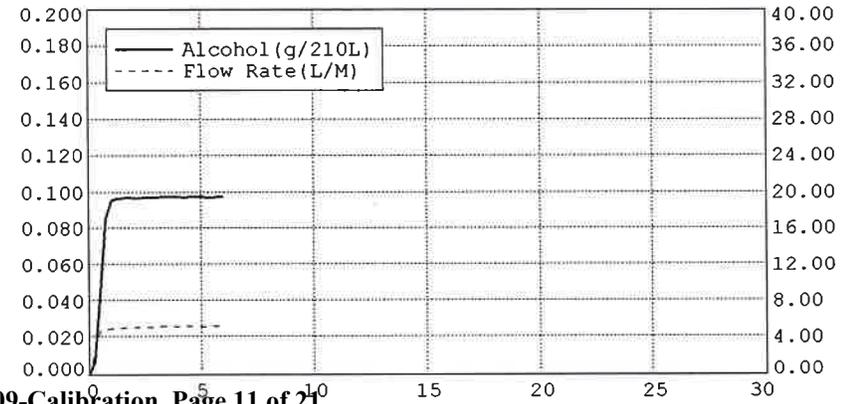
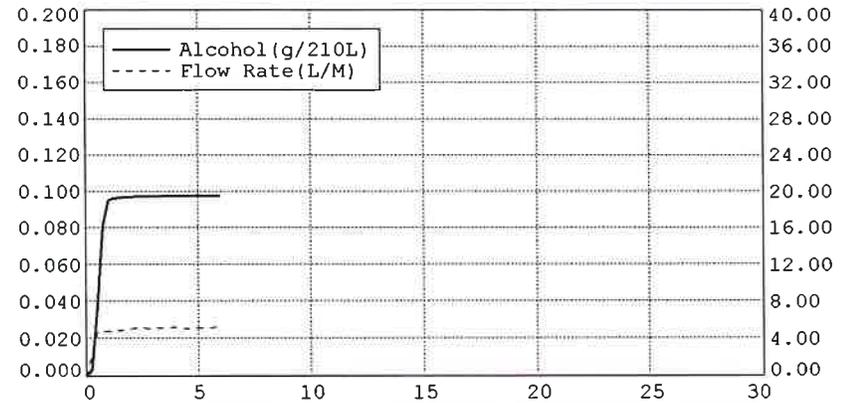
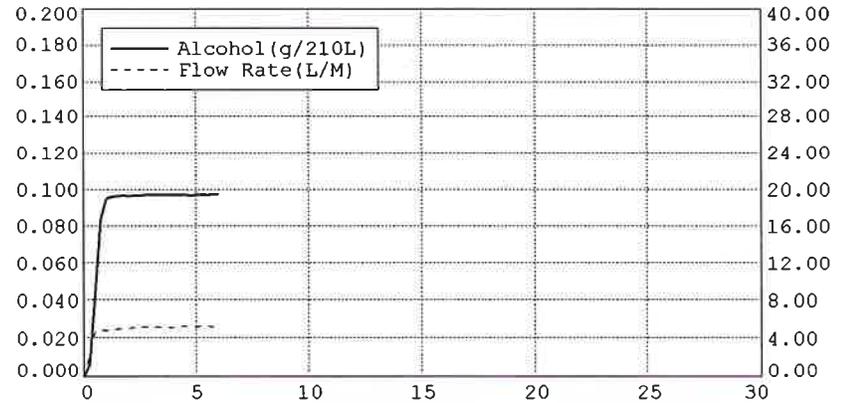
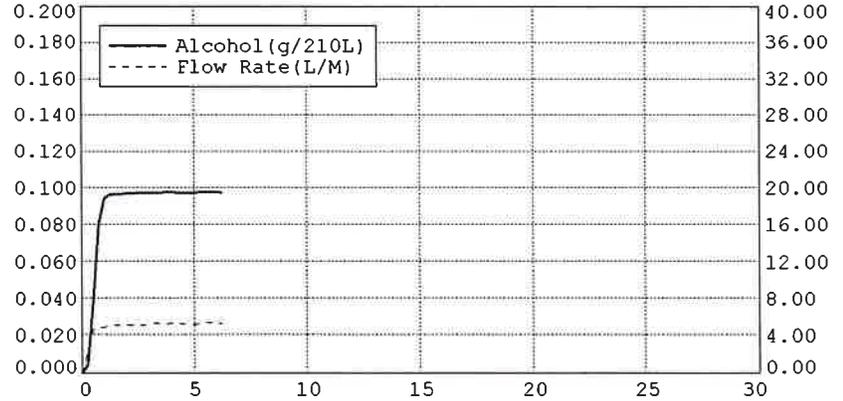
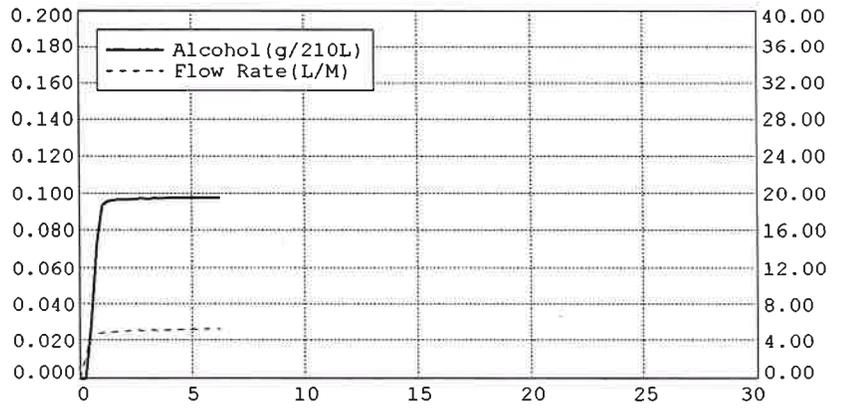
Date: 03/09/2026
 Time: 11:46:10

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.63: 0.099
 LOT #: AG515610
 EXPIRATION: 06/05/2027
 TANK PRESSURE: 1151 psi

BLANK TEST	0.000	11:47
INTERNAL STANDARD	VERIFIED	11:47
EXTERNAL STANDARD	0.099	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.099	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.099	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.099	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.099	11:52
BLANK TEST	0.000	11:52

Average = 0.0990
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100406

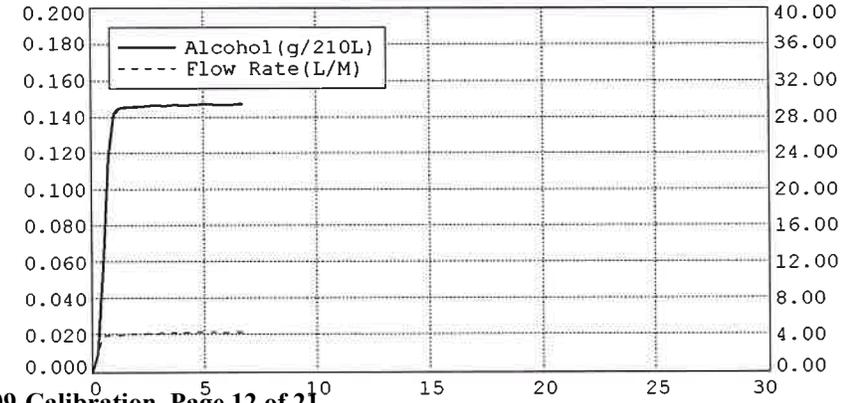
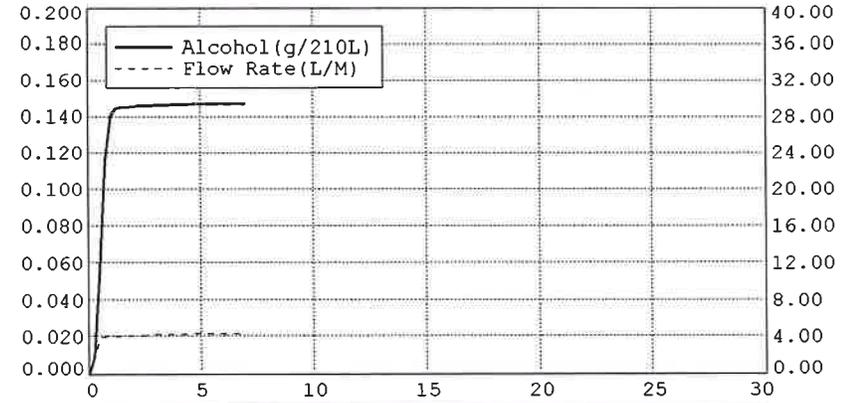
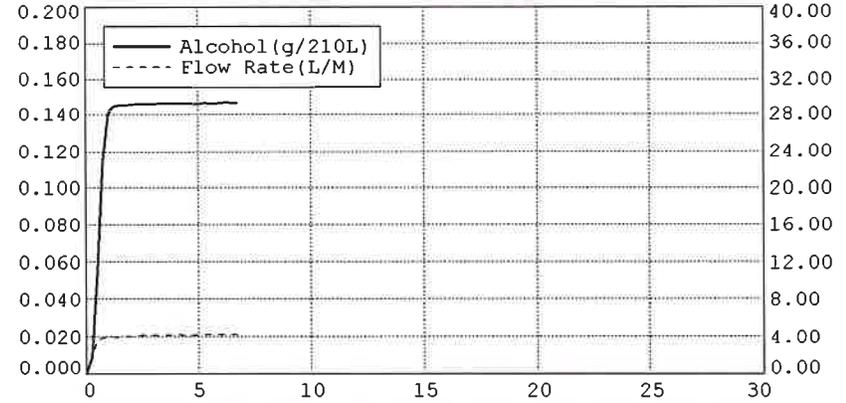
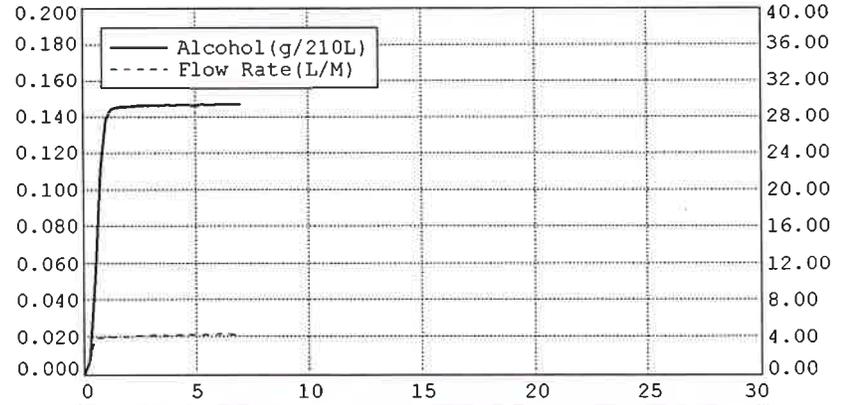
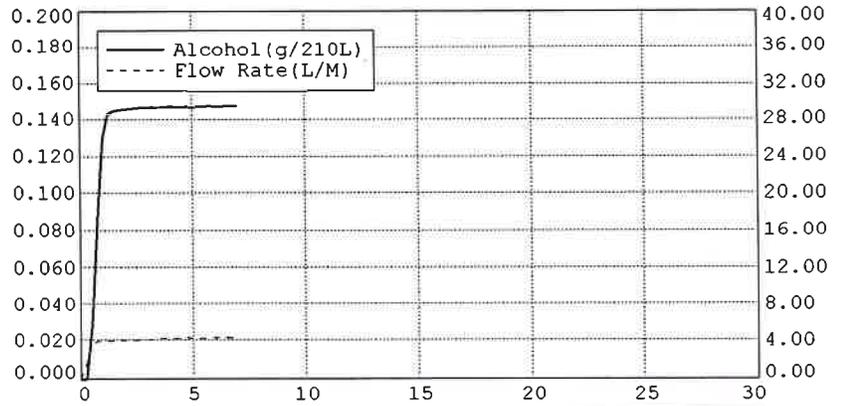
Date: 03/09/2026
 Time: 11:55:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.150
 TARGET AT 29.63: 0.149
 LOT #: AG515604
 EXPIRATION: 06/05/2027
 TANK PRESSURE: 623 psi

BLANK TEST	0.000	11:56
INTERNAL STANDARD	VERIFIED	11:56
EXTERNAL STANDARD	0.148	11:57
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.147	11:58
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.148	11:59
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.147	12:00
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.148	12:01
BLANK TEST	0.000	12:02

Average = 0.1476
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100406

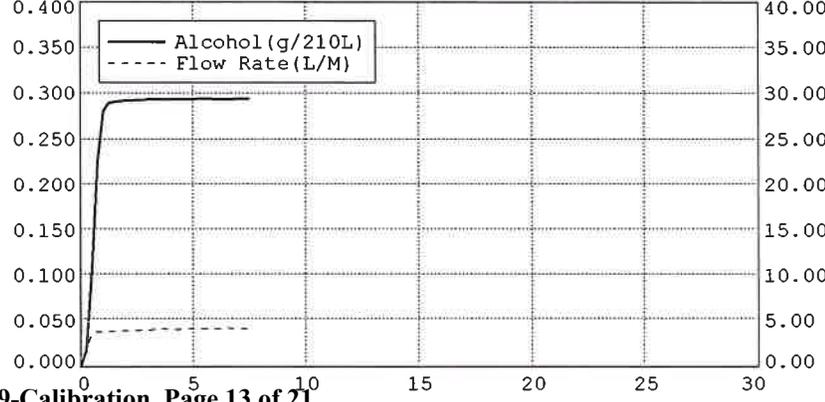
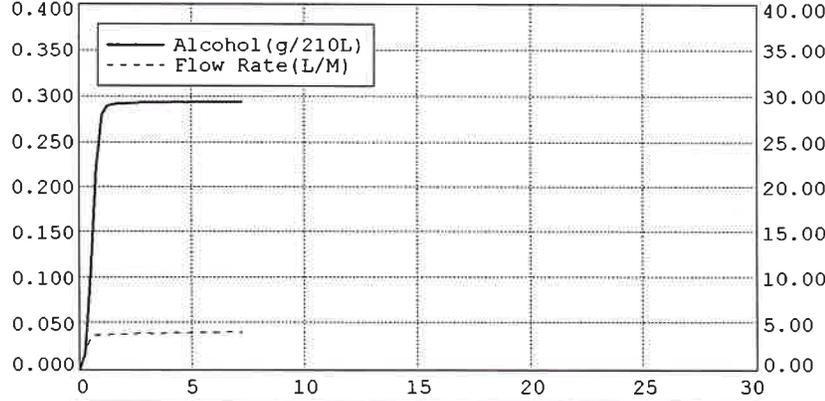
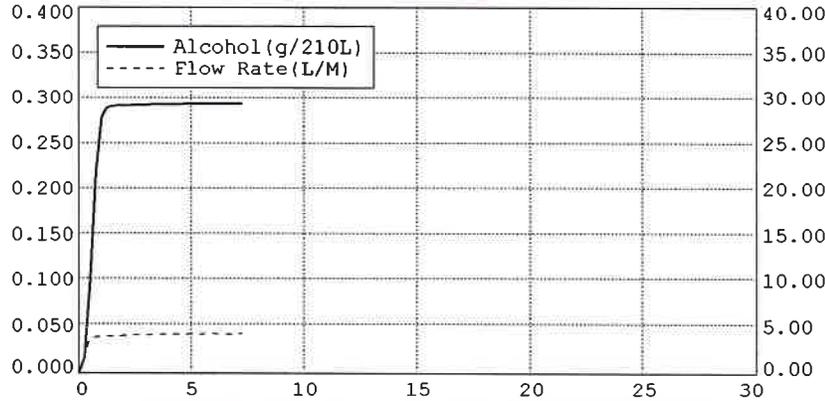
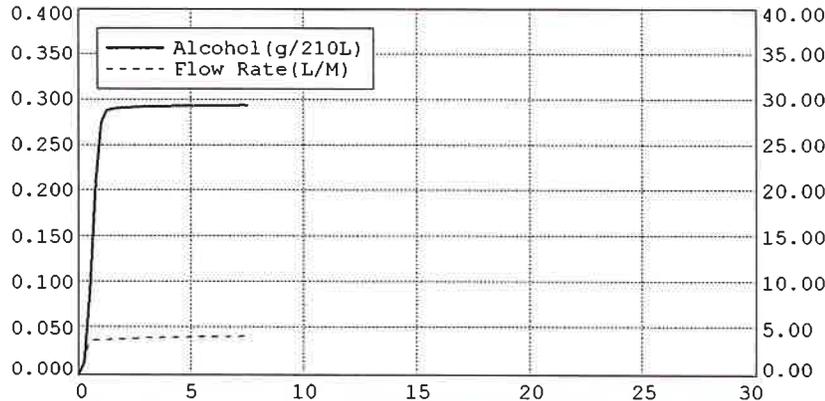
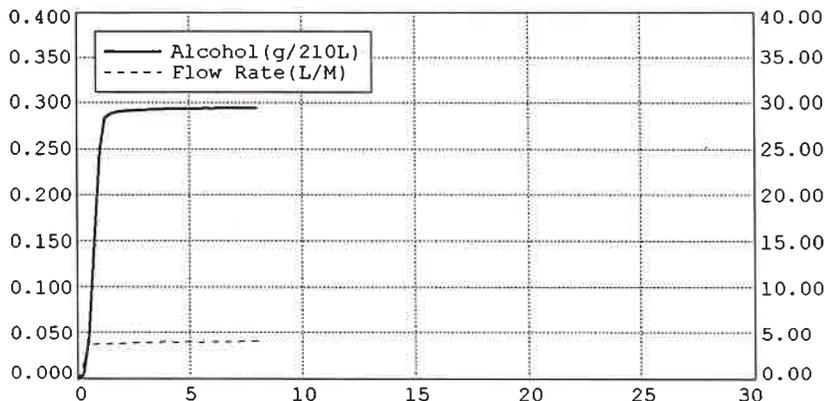
Date: 03/09/2026
 Time: 12:03:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.63: 0.297
 LOT #: AG516110
 EXPIRATION: 06/10/2027
 TANK PRESSURE: 499 psi

BLANK TEST	0.000	12:04
INTERNAL STANDARD	VERIFIED	12:04
EXTERNAL STANDARD	0.295	12:05
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.294	12:06
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.293	12:07
BLANK TEST	0.000	12:08
EXTERNAL STANDARD	0.294	12:08
BLANK TEST	0.000	12:09
EXTERNAL STANDARD	0.294	12:09
BLANK TEST	0.000	12:10

Average = 0.2940
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100406

Date: 03/09/2026
Time: 12:17:47

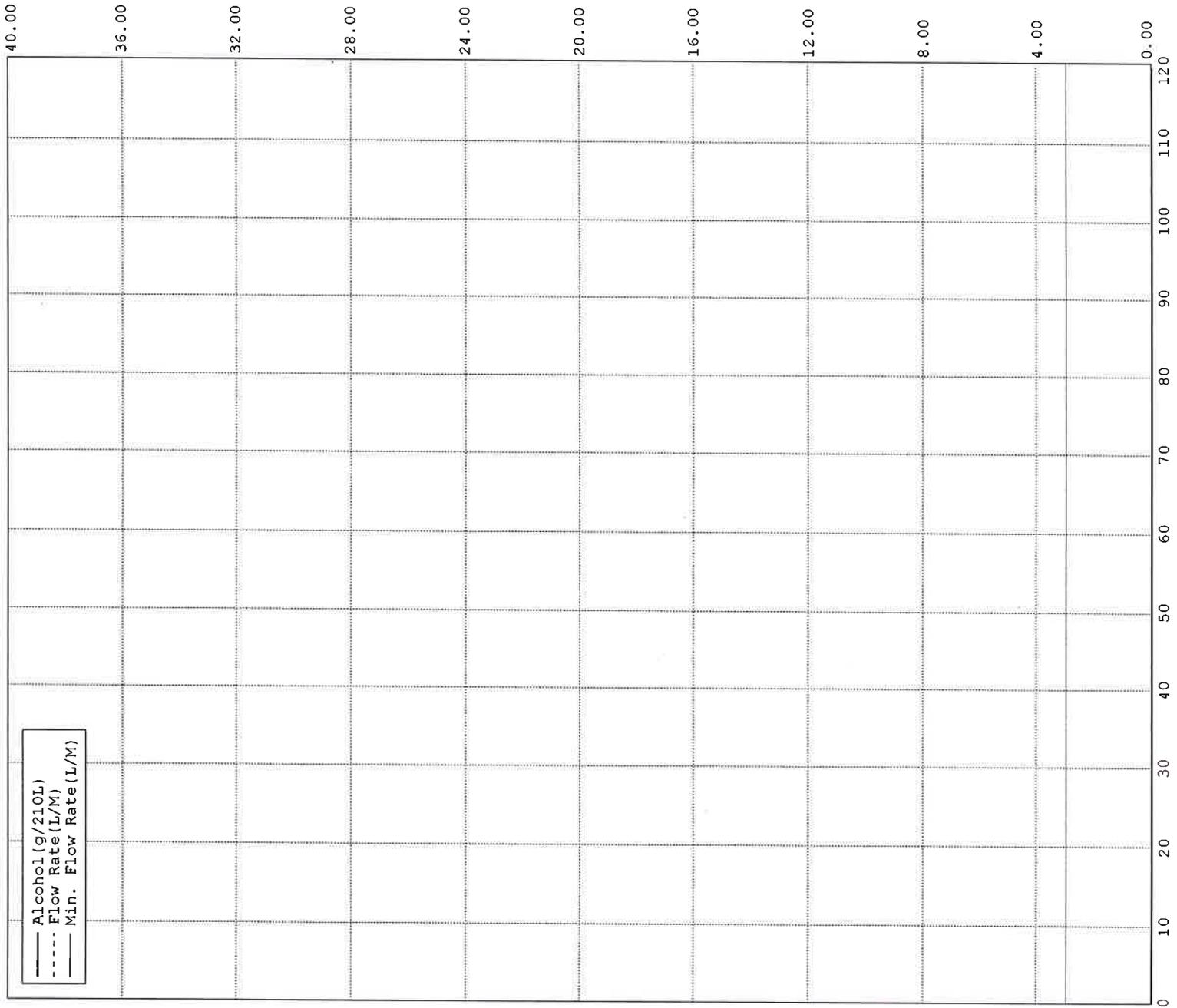
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

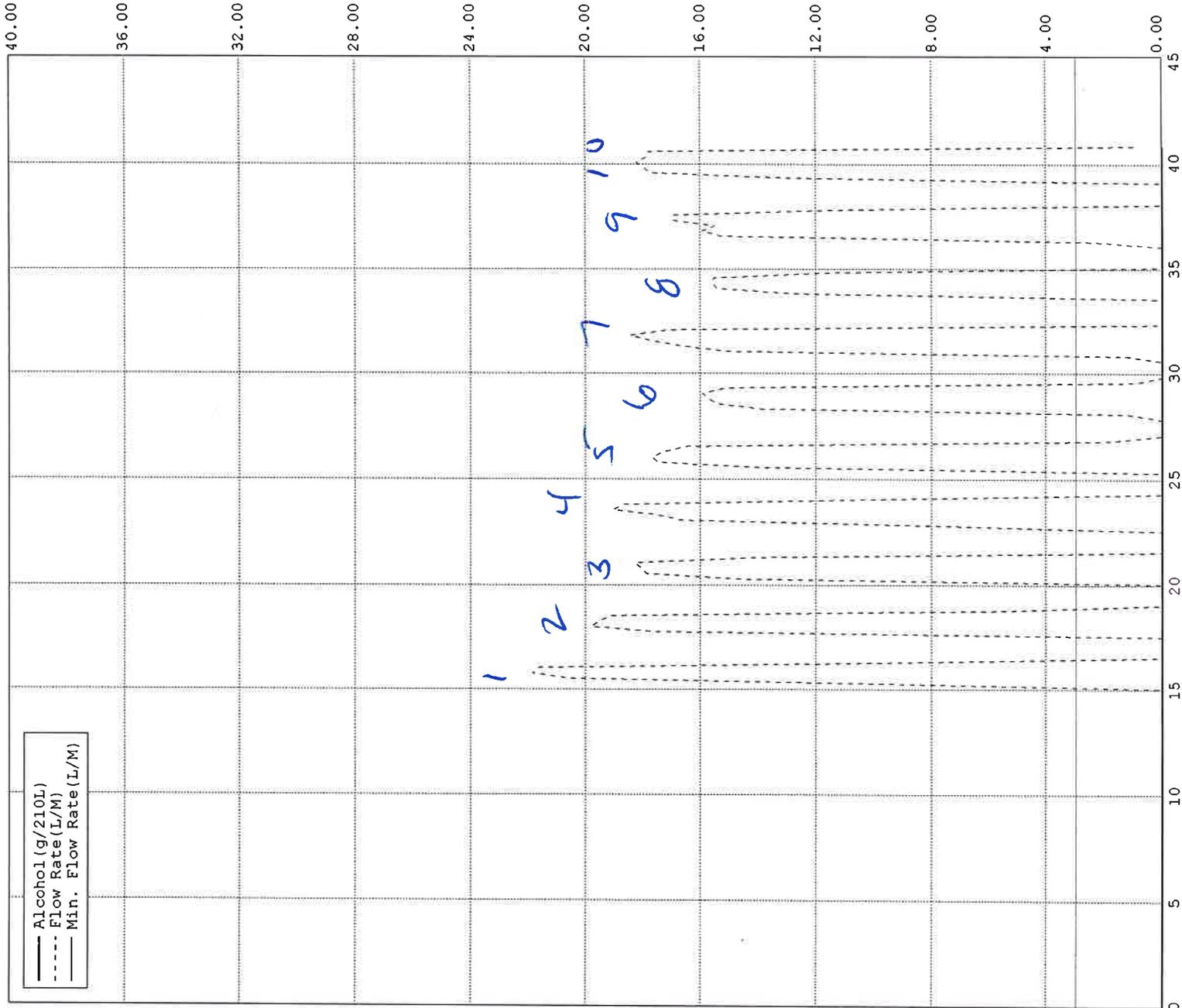
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: AG436502
EXPIRATION: 12/30/2026

DIAGNOSTIC CHECK PASSED 12:19
BLANK TEST 0.000 12:19
INTERNAL STANDARD VERIFIED 12:19
EXTERNAL STANDARD 0.079 12:20
BLANK TEST 0.000 12:21
SUBJECT SAMPLE INCOMPLETE 12:23





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100406

 Date: 03/09/2026
 Time: 12:25:22

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 29.62: 0.079
 LOT #: AG436502
 EXPIRATION: 12/30/2026

DIAGNOSTIC CHECK	PASSED	12:26
BLANK TEST	0.000	12:26
INTERNAL STANDARD	VERIFIED	12:26
EXTERNAL STANDARD	0.080	12:26
BLANK TEST	0.000	12:27
SUBJECT SAMPLE	XXX	12:28

Maximum Attempts Exceeded

CGS

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 03/09/2026
Time: 12:37:29

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

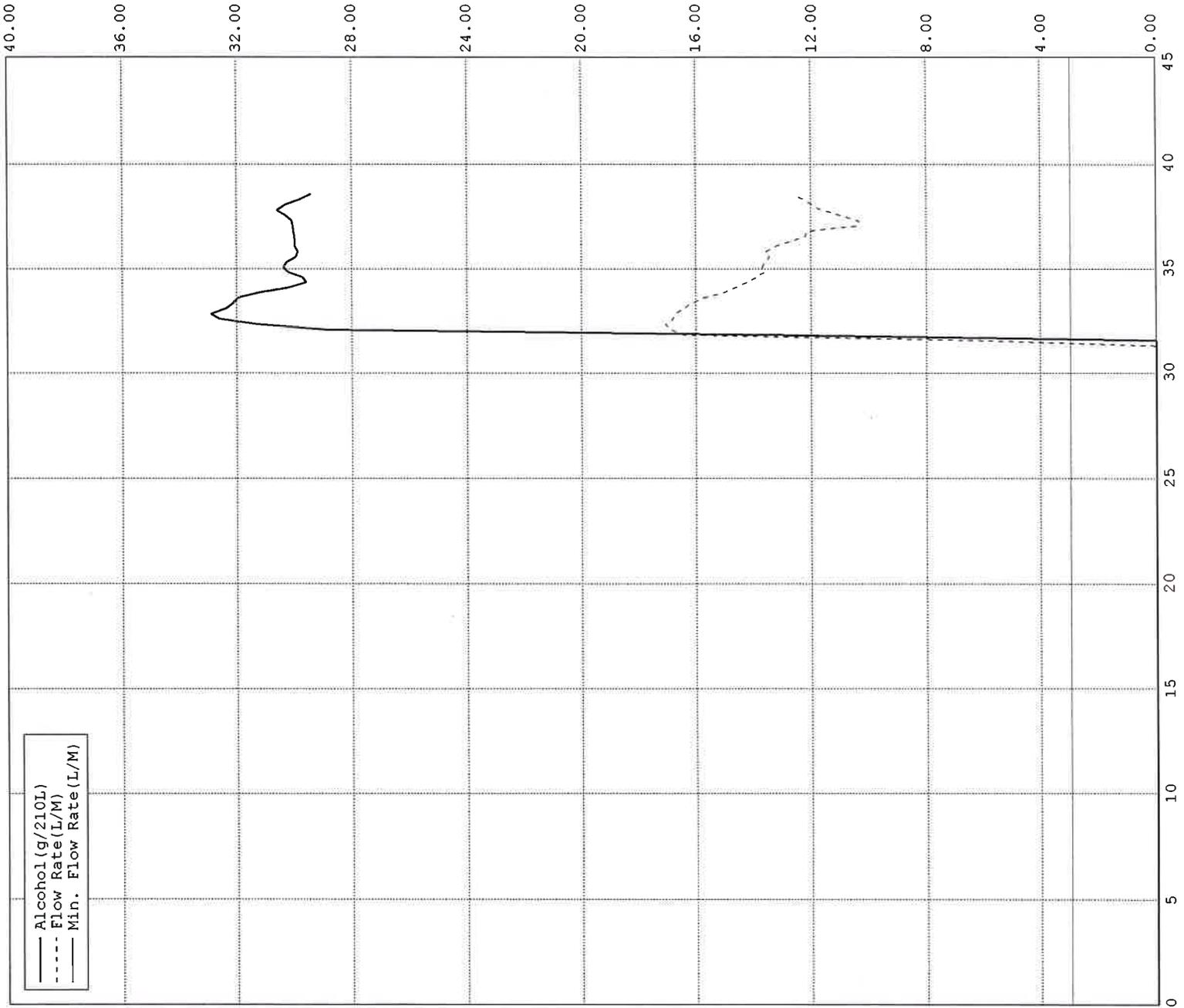
DEPT/AGENCY:
INVALID

CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: AG436502
EXPIRATION: 12/30/2026

DIAGNOSTIC CHECK PASSED 12:38
BLANK TEST 0.000 12:38
INTERNAL STANDARD VERIFIED 12:38
EXTERNAL STANDARD 0.080 12:39
BLANK TEST 0.000 12:39
SUBJECT SAMPLE INVALID 12:40



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 03/09/2026
Time: 12:48:06

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

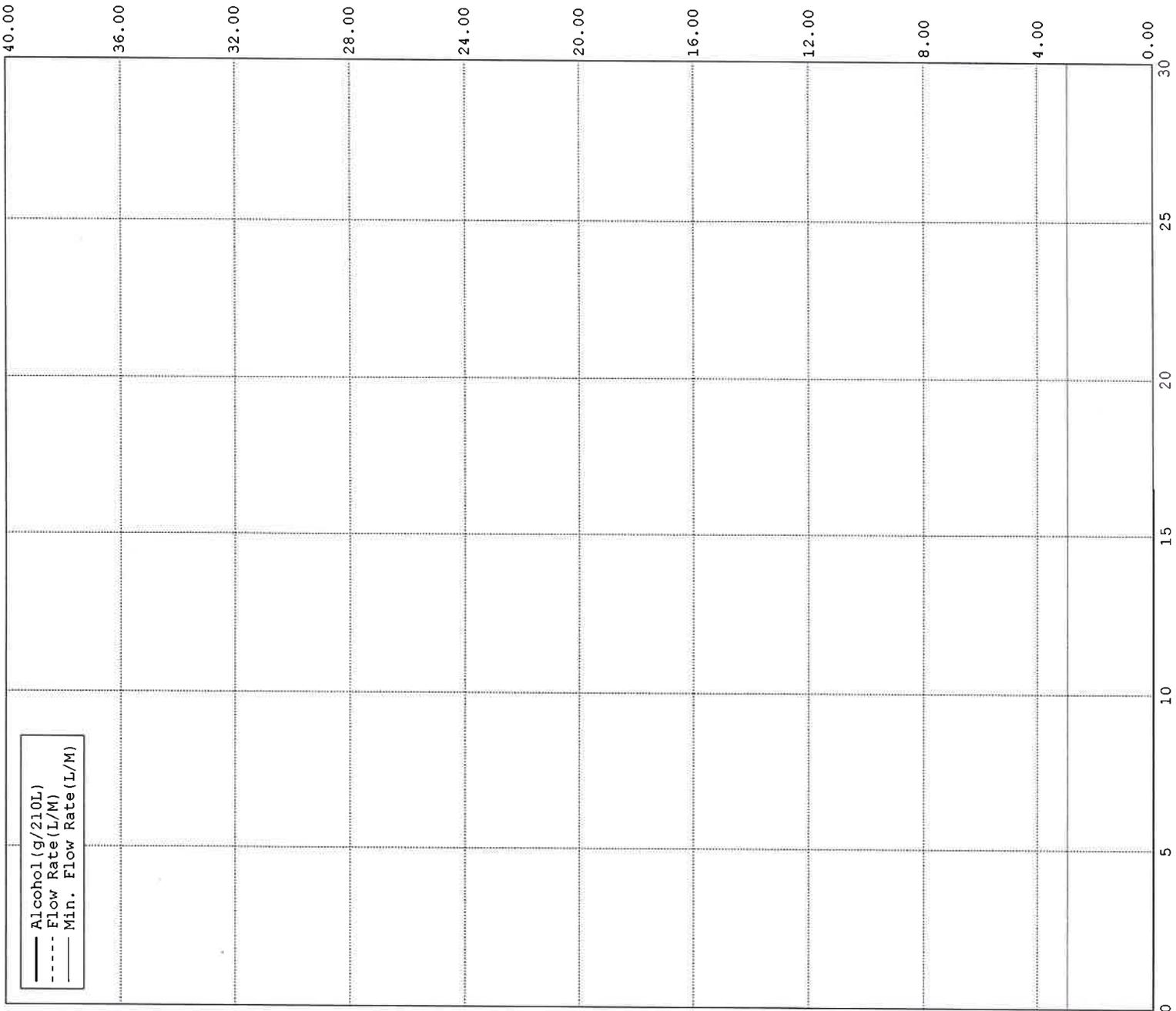
OPERATOR NAME:
CARLIE GLAISTER
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: AG436502
EXPIRATION: 12/30/2026

DIAGNOSTIC CHECK PASSED 12:49
BLANK TEST 0.000 12:49
INTERNAL STANDARD VERIFIED 12:49
EXTERNAL STANDARD 0.080 12:49
BLANK TEST 0.000 12:50

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 03/09/2026
Time: 13:18:00

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 29.62: 0.079
LOT #: AG436502
EXPIRATION: 12/30/2026

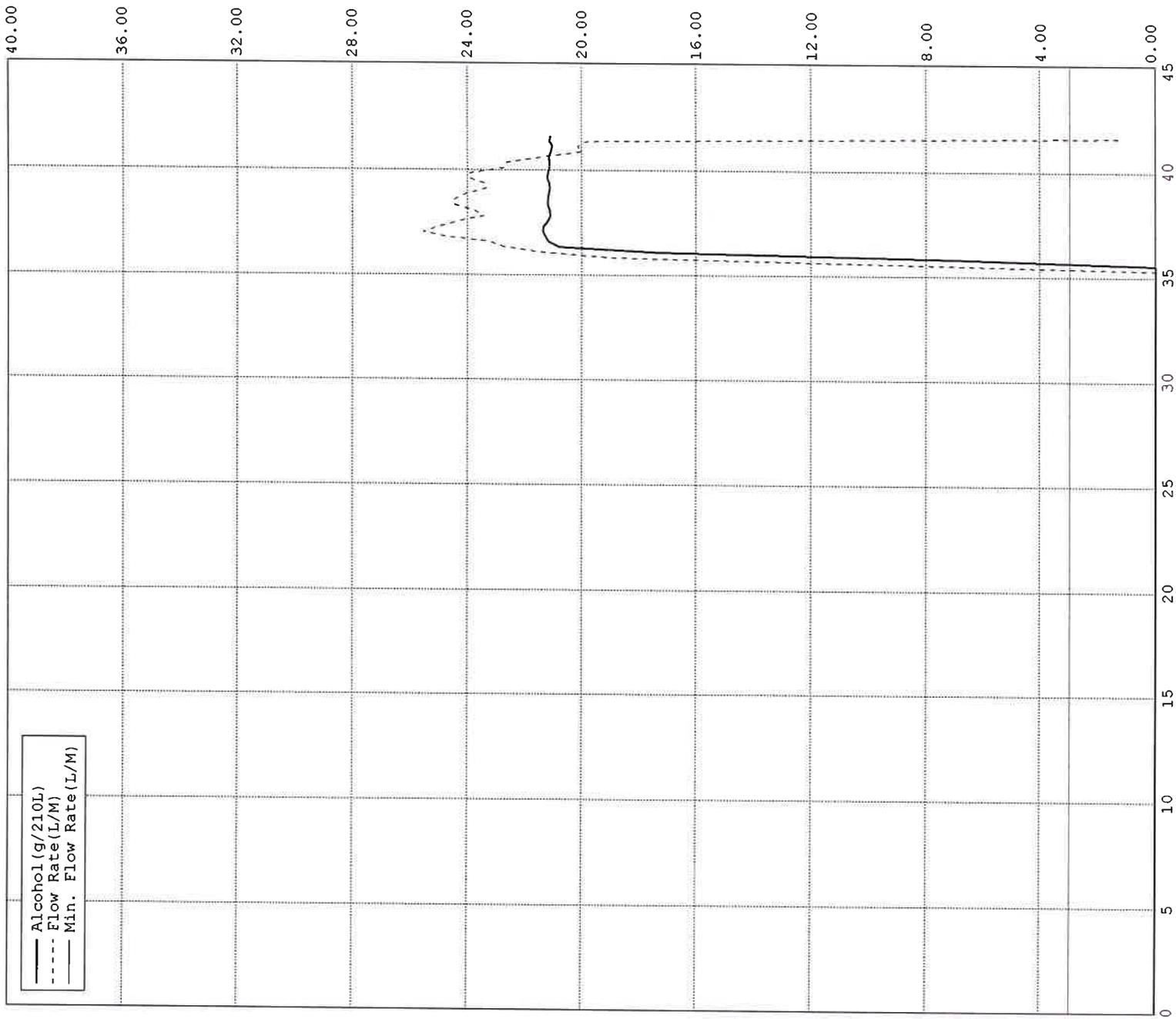
DIAGNOSTIC CHECK PASSED 13:19
BLANK TEST 0.000 13:19
INTERNAL STANDARD VERIFIED 13:19
Xq = 0.086 (0.82%)
EXTERNAL STANDARD 0.080 13:19
X[1] = 0.0797 (-0.0013) (0.0021)
BLANK TEST 0.000 13:20
SUBJECT SAMPLE XXX 13:21
X[1] = 0.1065 (-0.0190) (0.0015)

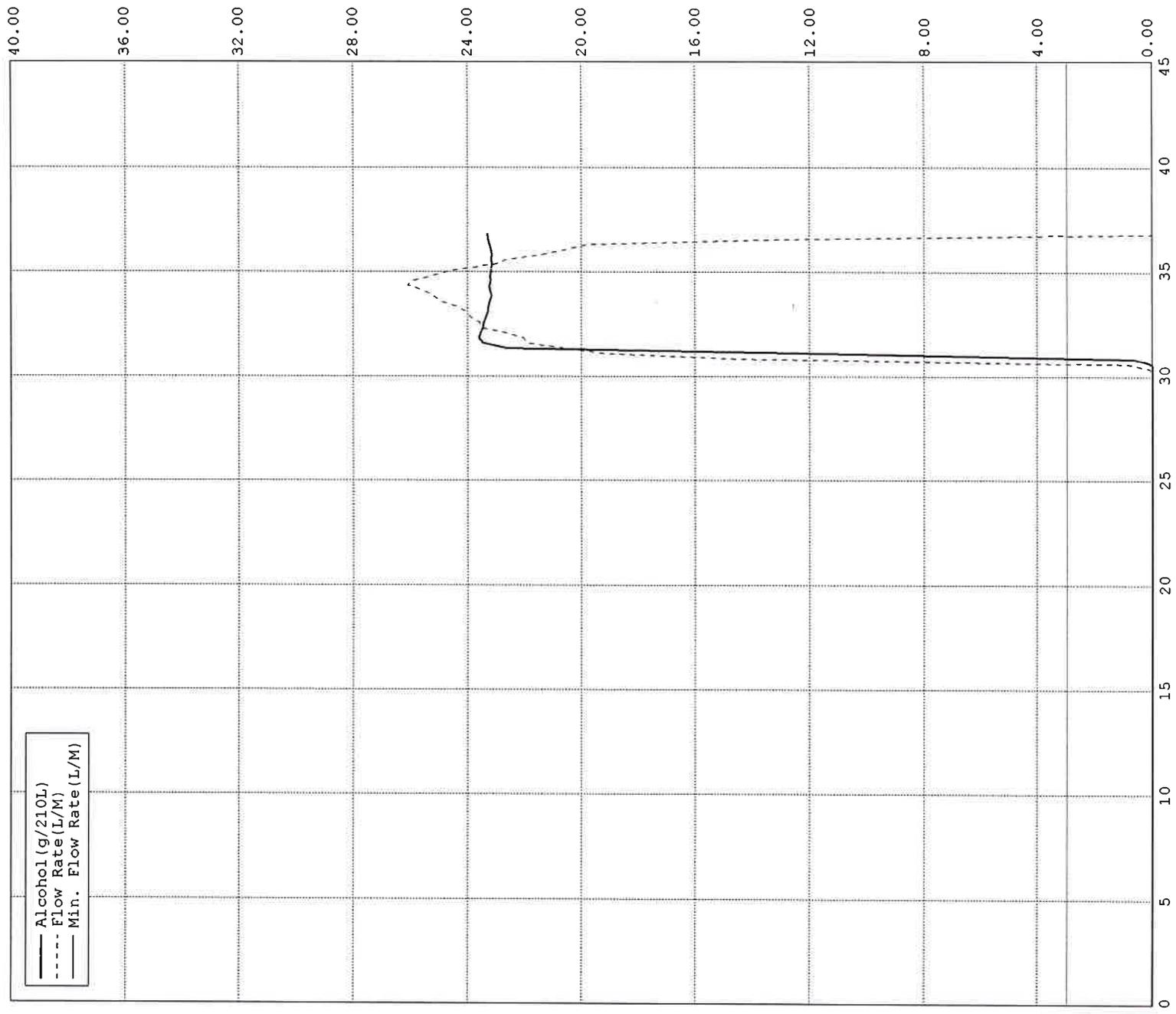
Interference Detected

Filter 2 Avg: -0.0015

Filter 3 Avg: 0.0017

NW-319126





SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100406

 Date: 03/09/2026
 Time: 13:24:03

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 29.62: 0.079
 LOT #: AG436502
 EXPIRATION: 12/30/2026

DIAGNOSTIC CHECK	PASSED	13:25
BLANK TEST	0.000	13:25
INTERNAL STANDARD	VERIFIED	13:25
Xq = 0.086 (0.82%)		
EXTERNAL STANDARD	0.080	13:25
X[1] = 0.0798 (-0.0011) (0.0015)		
BLANK TEST	0.000	13:26
SUBJECT SAMPLE	XXX	13:27
X[1] = 0.1171 (-0.0269) (0.0022)		

Interference Detected

CWS

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 03/09/2026
Time: 13:07:07

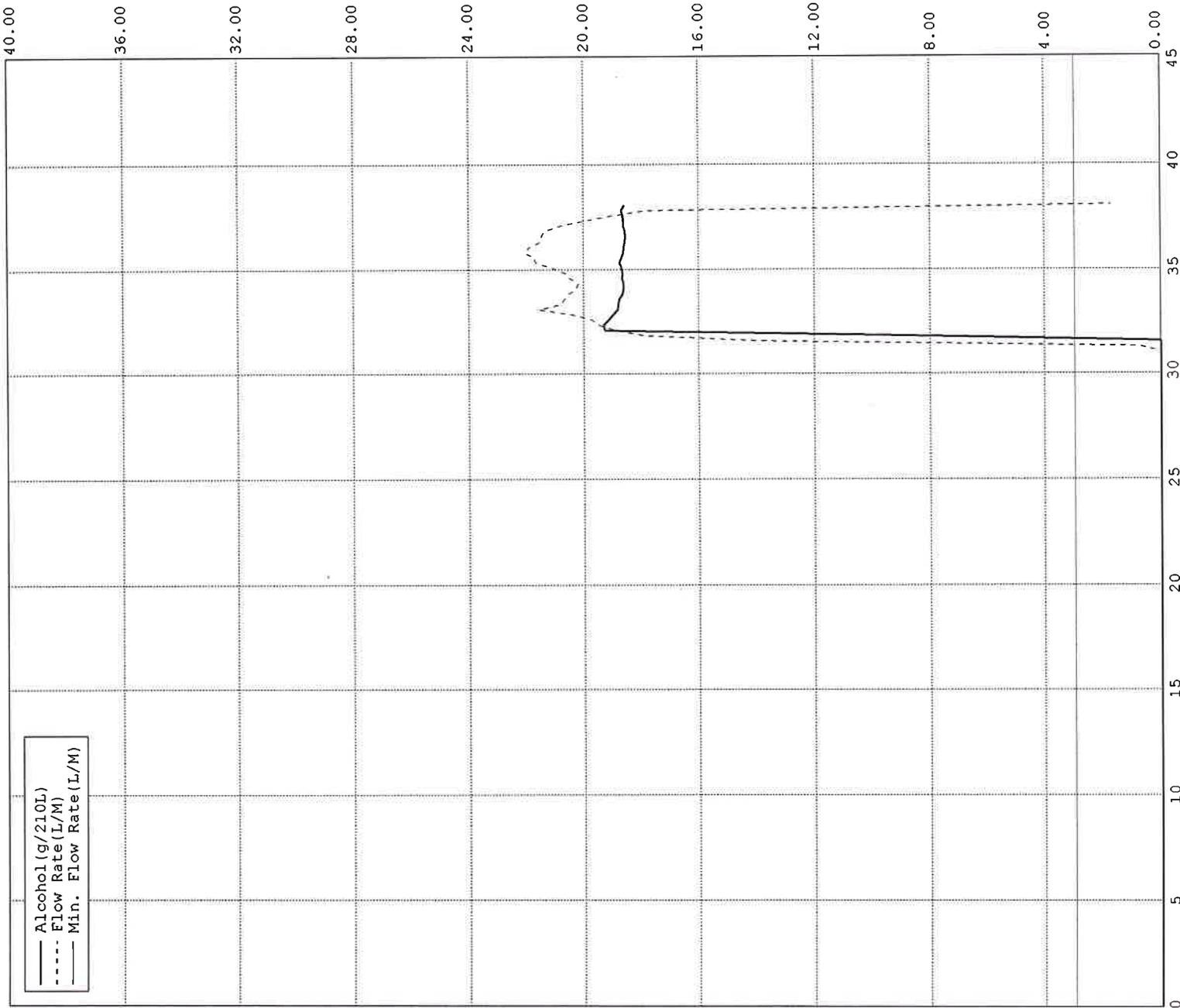
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.62: 0.079
LOT #: AG436502
EXPIRATION: 12/30/2026

DIAGNOSTIC CHECK	PASSED	13:08
BLANK TEST	0.000	13:08
INTERNAL STANDARD	VERIFIED	13:08
$X_q = 0.086$ (0.61%)	0.079	13:08
EXTERNAL STANDARD	$X[1] = 0.0791$ (-0.0021)	(0.0018)
BLANK TEST	0.000	13:09
SUBJECT SAMPLE (Vol=2.19L)	0.094	13:10
$X[1] = 0.0941$ (-0.0011)	(0.0012)	
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.079	13:11
$X[1] = 0.0792$ (-0.0015)	(0.0012)	
BLANK TEST	0.000	13:12



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 03/09/2026
Time: 15:14:23

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 29.60: 0.079
LOT #: AG436502
EXPIRATION: 12/30/2026

DIAGNOSTIC CHECK	PASSED	15:15
BLANK TEST	0.000	15:15
INTERNAL STANDARD	VERIFIED	15:15
EXTERNAL STANDARD	0.080	15:15
BLANK TEST	0.000	15:16
SUBJECT SAMPLE (Vol=1.59L)	0.000	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.080	15:18
BLANK TEST	0.000	15:19

CGS

