

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: 100361

Report Issue Date: 11/05/2025
Date Received: 2025-09-03
Condition of Item: Damaged

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

During evaluation the solenoid wire was found to be smoking and causing a short (exposed wires). The wire was unplugged and the screen then worked as normal. Since the wire is damaged and will need to be replaced, the VOC, linearity, and non-drinking subject tests could not be performed.

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	AG408002	0.020	0.019	0.019	0.019	0.019	0.019	+/- 0.002
0.040	0.039	AG407908	0.039	0.038	0.039	0.039	0.039	0.039	+/- 0.003
0.080	0.078	AG335202	0.076	0.076	0.076	0.075	0.076	0.076	+/- 0.004
0.100	0.097	AG333401	0.097	0.096	0.097	0.097	0.097	0.097	+/- 0.004
0.150	0.146	AG332004	0.142	0.142	0.142	0.142	0.142	0.142	+/- 0.006
0.300	0.292	AG427706	0.287	0.286	0.287	0.287	0.287	0.287	+/- 0.012

As Left Conditions - Barometric Pressure (inHg): 29.17 Barometer Used: VWR S/N 240680771 Temperature (C): 21.6 Relative Humidity (%): 16

As-Left Lab Activity Date Range: 10/29/2025 - 10/29/2025

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 Kaija Swisher on 10/29/2025

kaija.swisher@alaska.gov

Technically and administratively reviewed by Derek Walton on 11/05/2025

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 1/23/2024

Version: 4.0

Instrument #: 100361 Analyst or Technician Name: Kaja Swisher

DataMaster DMT Calibration Start Date: 10/29/25

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: 9/10/26

☒ 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) 29.17 Temperature(C) 21.6 Relative Humidity(%) 16

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

Functional Tests

☒ Incomplete

☒ Maximum Attempts Exceeded

☒ Invalid

☒ Radio Frequency Interference (RFI)

☒ Interference (Volatiles) - *Print with View Details*

1. Acetone Reagent Lot Number: 20250922KS Expiration Date: 12/22/25
Simulator S/N: DR4178 Thermometer Verification Performed? ☒
2. Isopropanol Reagent Lot Number: 20250922KS Expiration Date: 12/22/25
Simulator S/N: DR4177 Thermometer Verification Performed? ☒
3. Negative (Ethanol Only) Lot Number: 25CP41280 Expiration Date: 12/22/25
Simulator S/N: DR4163 Thermometer Verification Performed? ☒ 3/19/27 (Solution)

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: 10/29/25

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

Data Interpretation Date (Analyst): 10/29/25

All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 10/29/2025
Time: 08:10:22

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 = 1.89 V PASSED
(1.17 V - 2.73 V)
Cooler Voltage = 1.90 V PASSED
(1.01 V - 2.35 V)
Bias Voltage = 81 V PASSED
(48 V - 112 V)
Chopper Freq = 540 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.517 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

PASSED
Xq = 0.087 0.89% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100361

Date: 10/29/2025

Time: 8:22 AM

Temperatures (°C)

Sample Cell: 49.0°C

Breath Tube: 47.4°C

Current Barometer 29.2 in

Volume (Ltr) 1.55

Settings

Lamp: 1.83 V

Bias: 81 V

Cooler: 1.95 V

Chopper: 538 Hz

Voltages (V)

Flow: 1.04 V

Detector: 0.062 V

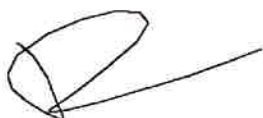
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 04/23/2021
Time: 09:19:31

OPERATOR NAME:
NPAS TECH
CERTIFICATE #: G12921/20490

Ca = 0.1000
CAL = 0.999458 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0060 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xq = 0.0877 0.0500 <= Xq < 0.2000
a21 = 1.187326 1.050 <= a21 < 1.300
a31 = 0.501823 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 10/29/2025
Time: 08:25:33

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

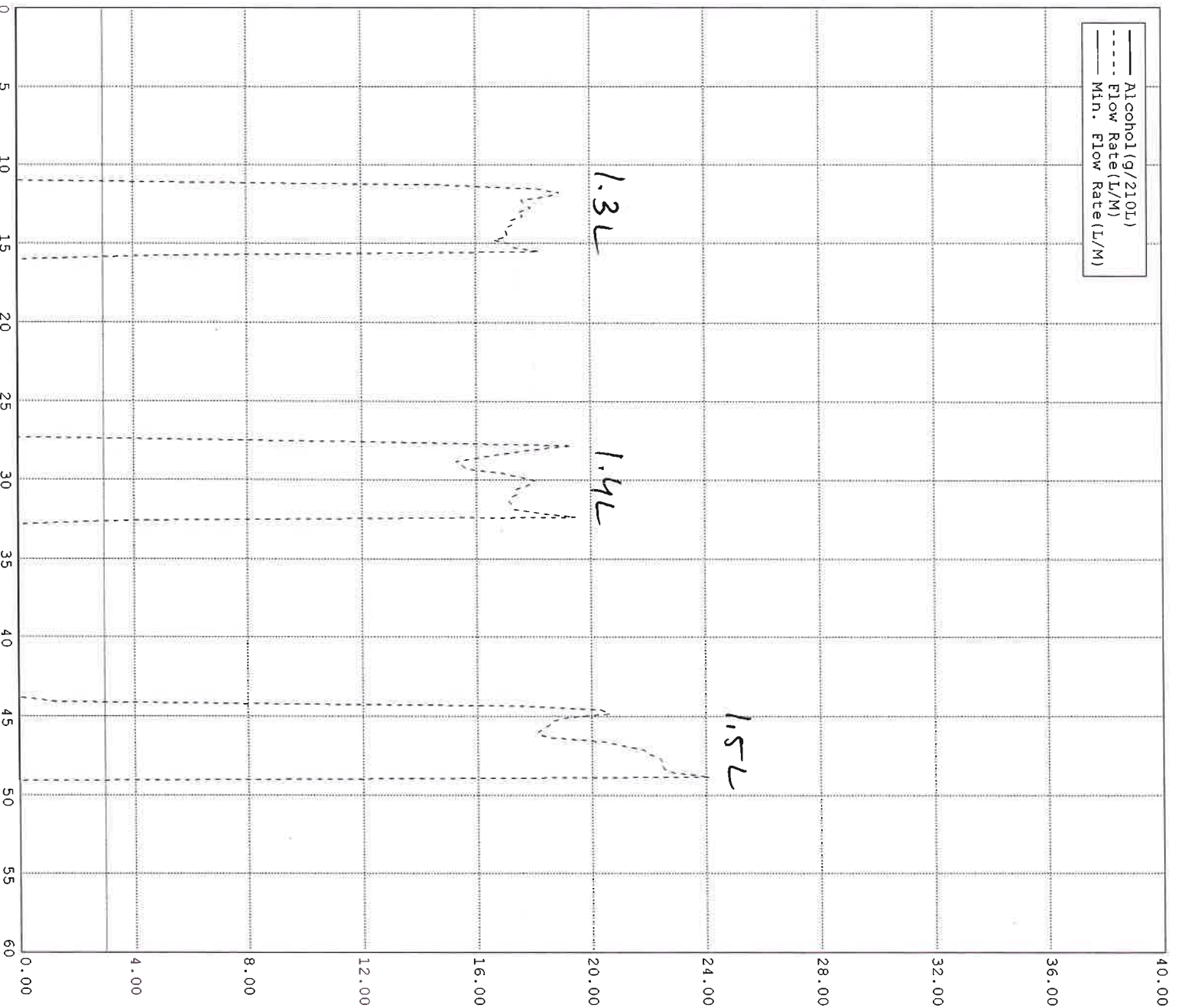
OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.17: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025

	PASSED	08:26
DIAGNOSTIC CHECK	0.000	08:27
BLANK TEST	0.000	08:27
INTERNAL STANDARD	0.075	08:27
EXTERNAL STANDARD	0.000	08:28
BLANK TEST	0.000	08:29
SUBJECT SAMPLE (Vol=1.63L)	0.000	08:30
BLANK TEST	0.076	08:30
EXTERNAL STANDARD	0.000	08:31
BLANK TEST		

KS



LINEARITY CHECK

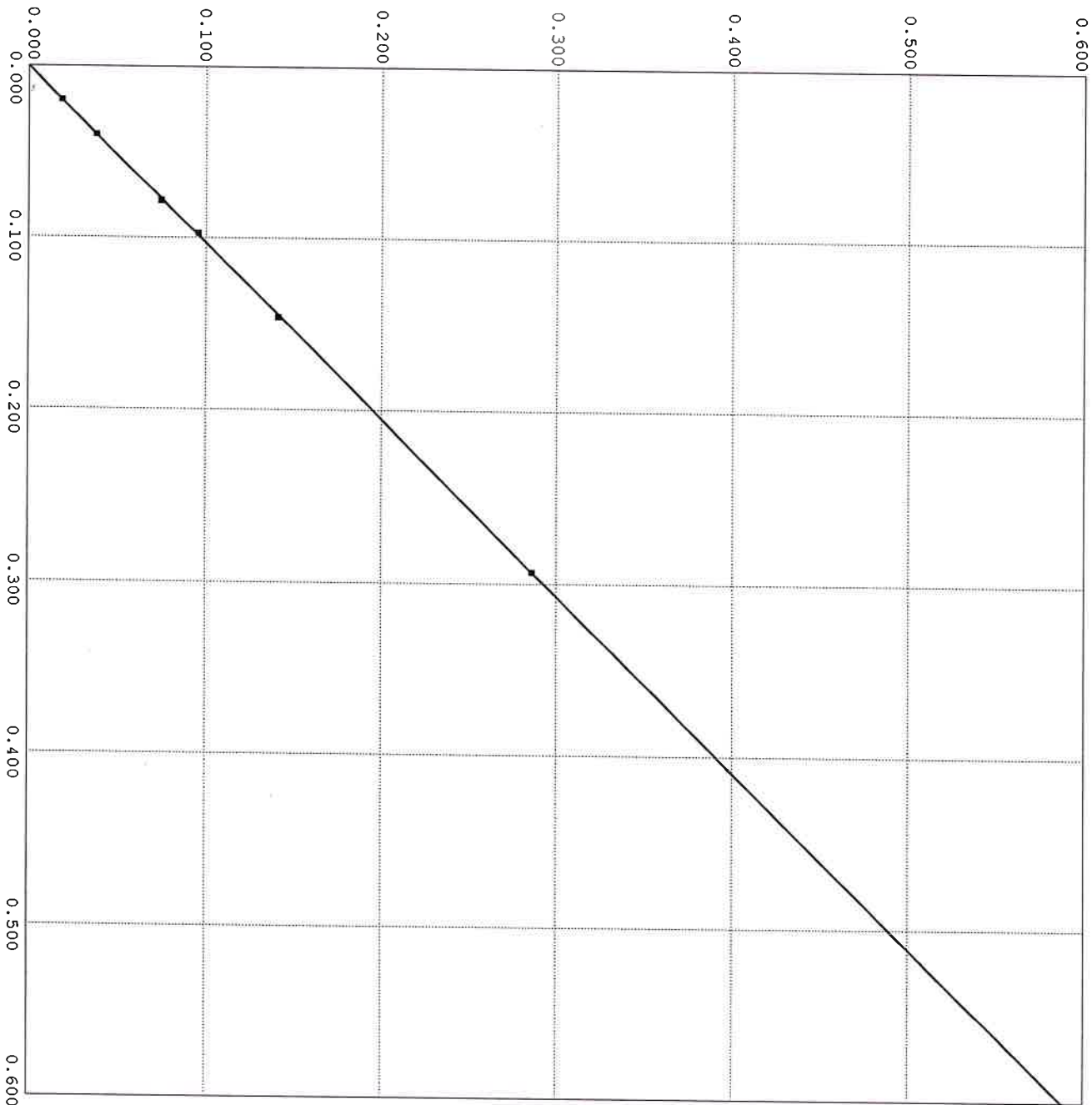
Alaska Department of Public Safety
DATA MASTER dmt: 100361

Date: 10/29/2025
Time: 09:15:44

SUPERVISOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

TARGET	AVERAGE	STD. DEV.
0.019	0.0192	0.0004
0.039	0.0388	0.0004
0.078	0.0758	0.0004
0.097	0.0968	0.0004
0.146	0.1420	0.0000
0.292	0.2868	0.0004

SLOPE = 0.979554
 R^2 = 0.999891



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100361

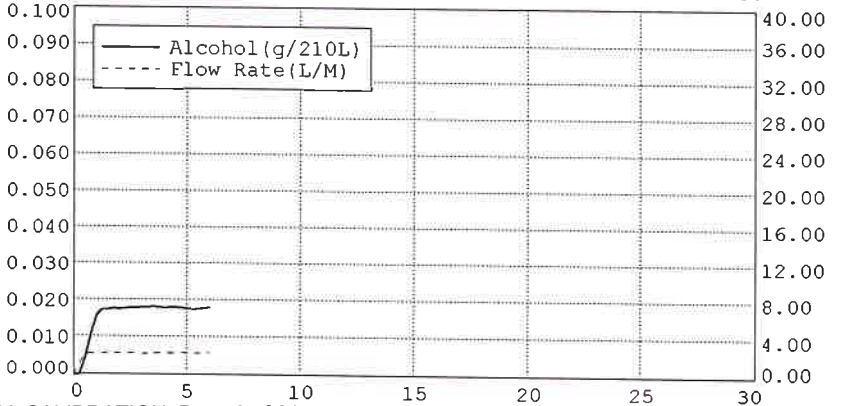
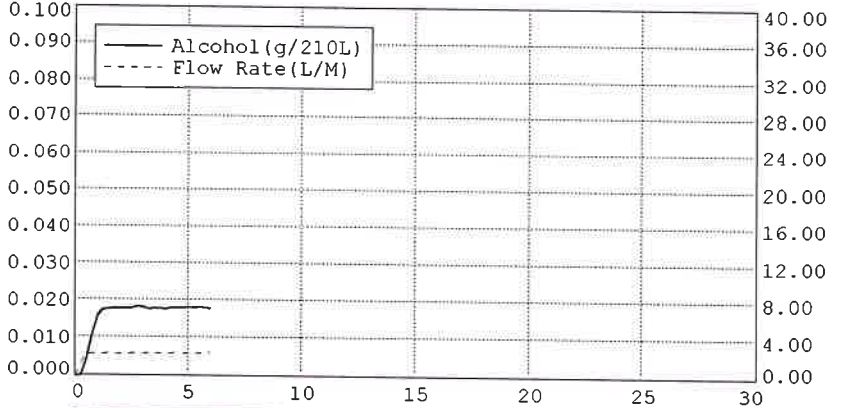
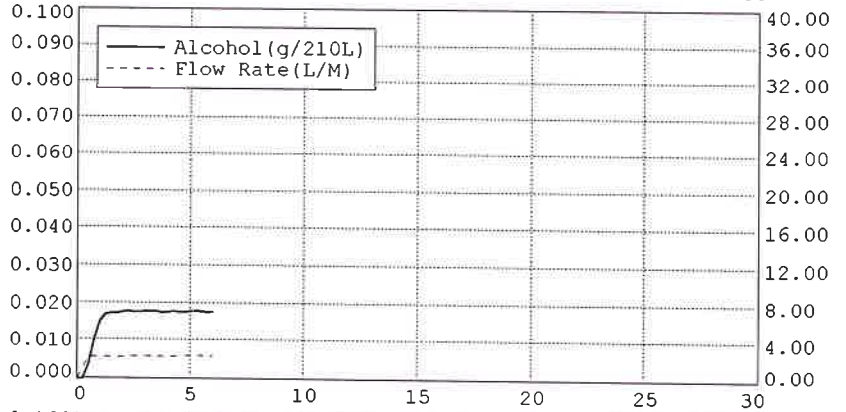
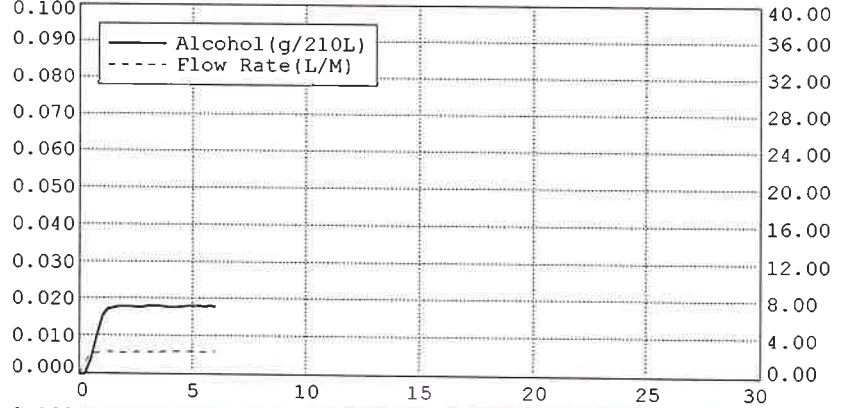
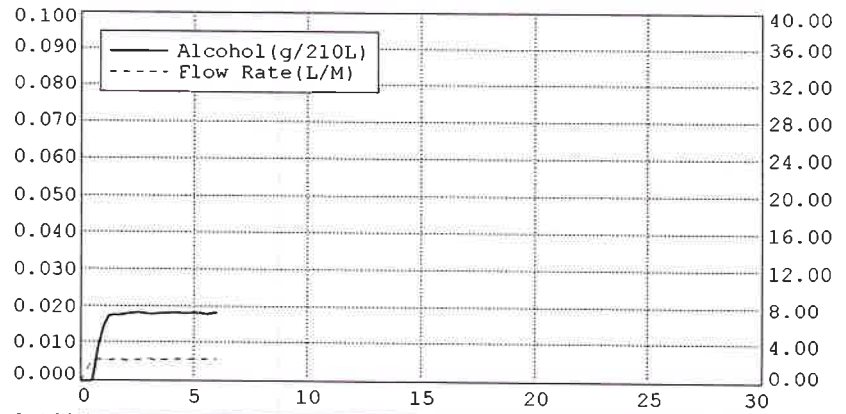
Date: 10/29/2025
Time: 09:15:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.14: 0.019
LOT #: AG408002
EXPIRATION: 03/20/2026
TANK PRESSURE: 339 psi

BLANK TEST	0.000	09:17
INTERNAL STANDARD	VERIFIED	09:17
EXTERNAL STANDARD	0.020	09:17
BLANK TEST	0.000	09:18
EXTERNAL STANDARD	0.019	09:18
BLANK TEST	0.000	09:19
EXTERNAL STANDARD	0.019	09:19
BLANK TEST	0.000	09:20
EXTERNAL STANDARD	0.019	09:20
BLANK TEST	0.000	09:21
EXTERNAL STANDARD	0.019	09:21
BLANK TEST	0.000	09:22

Average = 0.0192
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100361

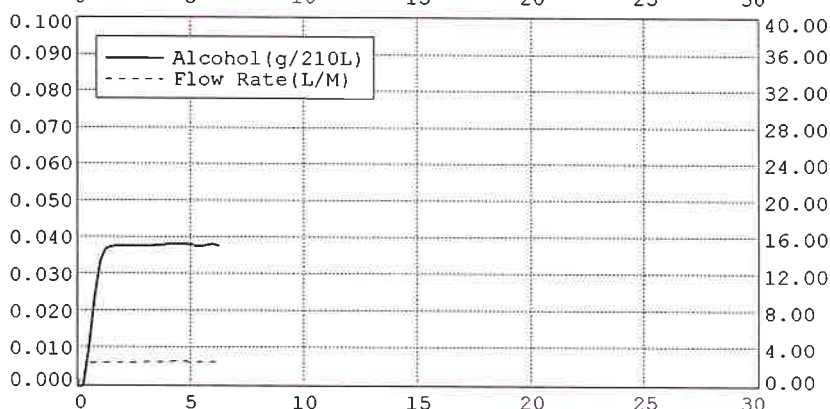
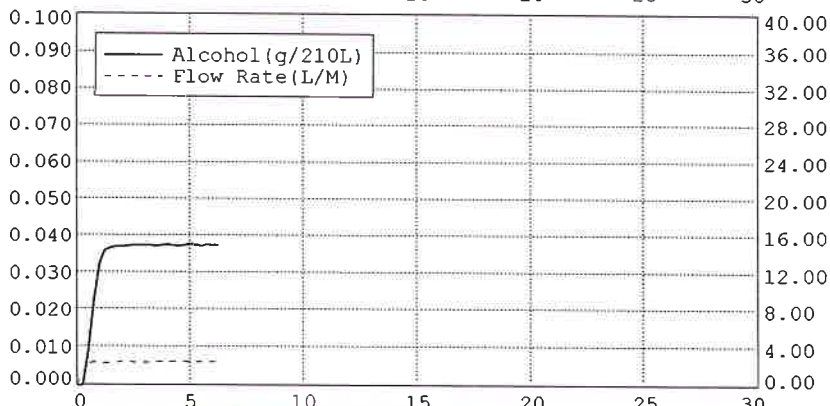
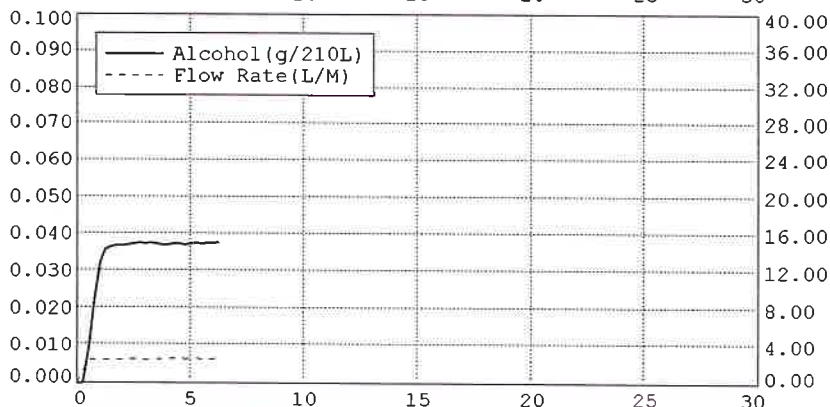
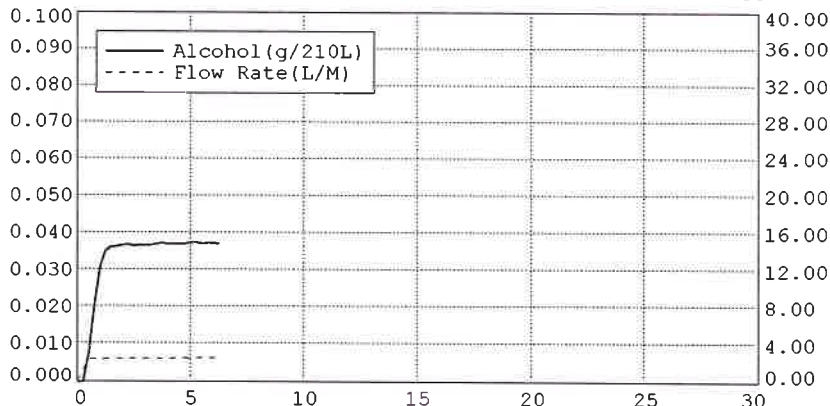
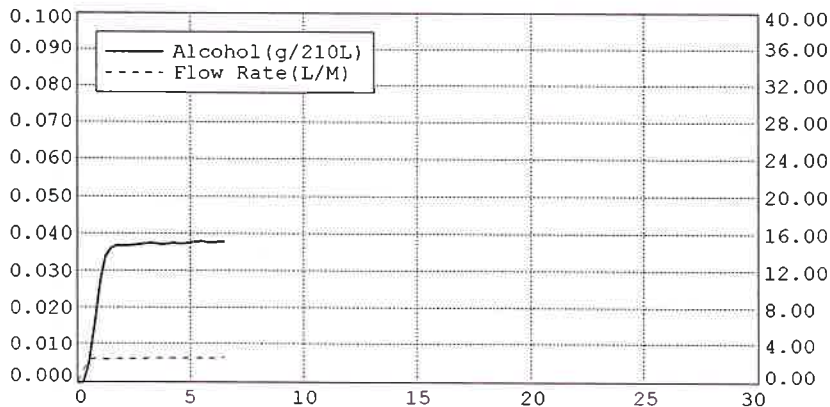
Date: 10/29/2025
Time: 09:23:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.12: 0.039
LOT #: AG407908
EXPIRATION: 03/19/2026
TANK PRESSURE: 634 psi

BLANK TEST	0.000	09:24
INTERNAL STANDARD	VERIFIED	09:24
EXTERNAL STANDARD	0.039	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.038	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.039	09:27
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.039	09:28
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.039	09:29
BLANK TEST	0.000	09:30

Average = 0.0388
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100361

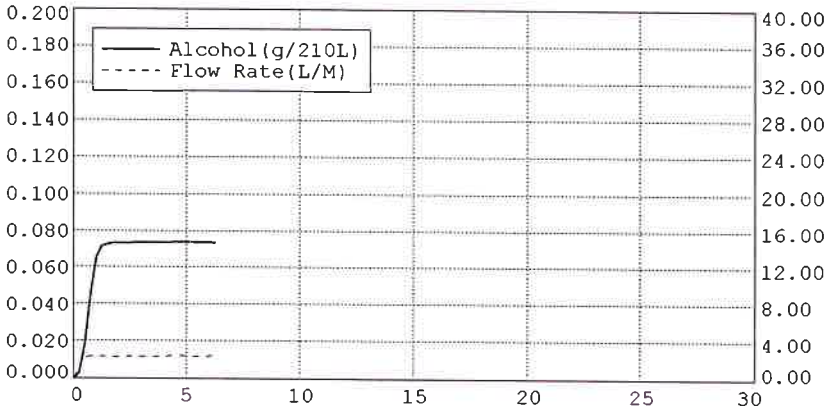
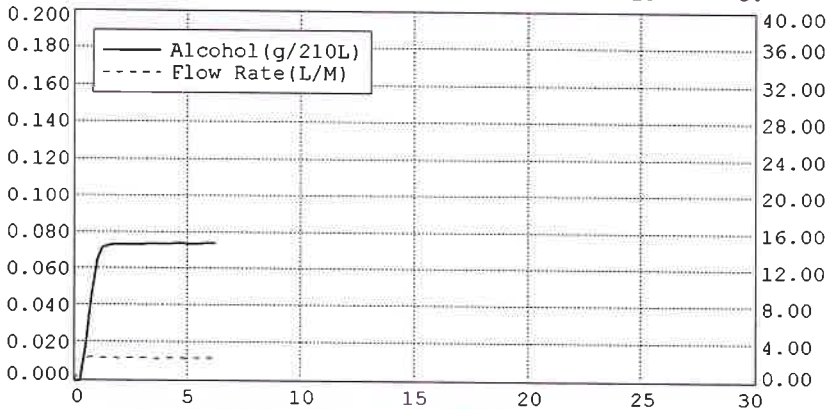
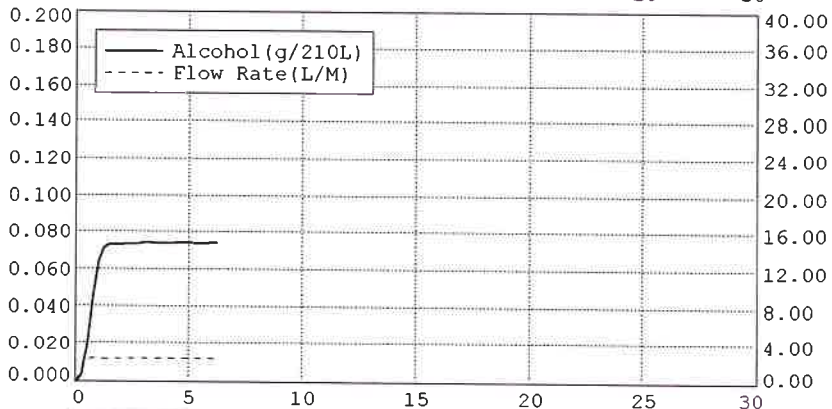
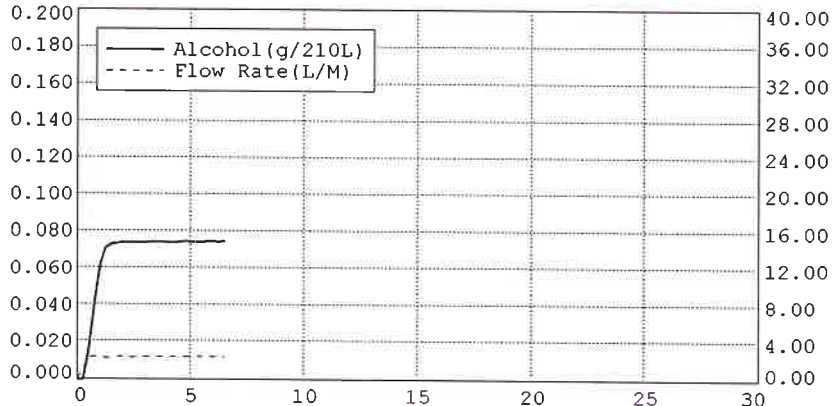
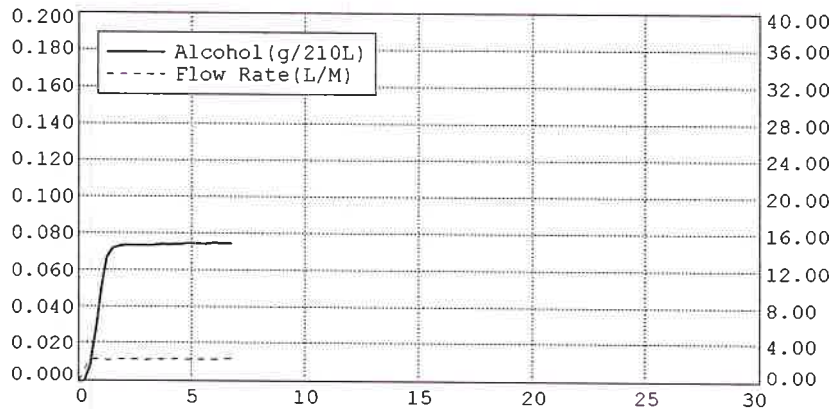
Date: 10/29/2025
Time: 09:31:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.11: 0.078
LOT #: AGG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 144 psi

BLANK TEST	0.000	09:33
INTERNAL STANDARD	VERIFIED	09:33
EXTERNAL STANDARD	0.076	09:33
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.076	09:34
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.076	09:35
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.075	09:36
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.076	09:37
BLANK TEST	0.000	09:38

Average = 0.0758
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100361

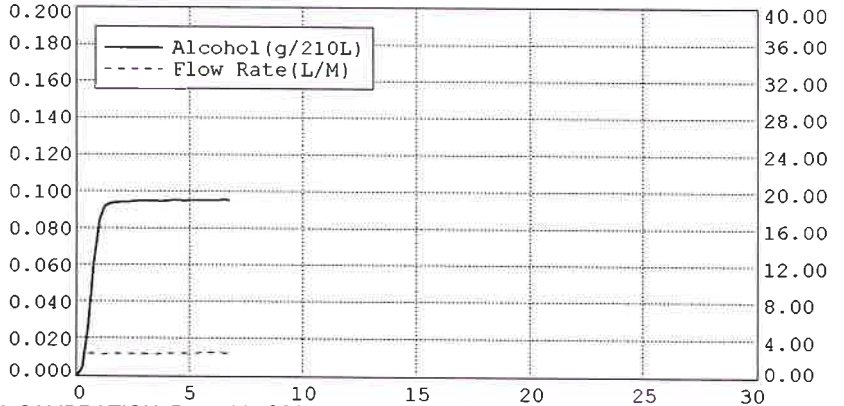
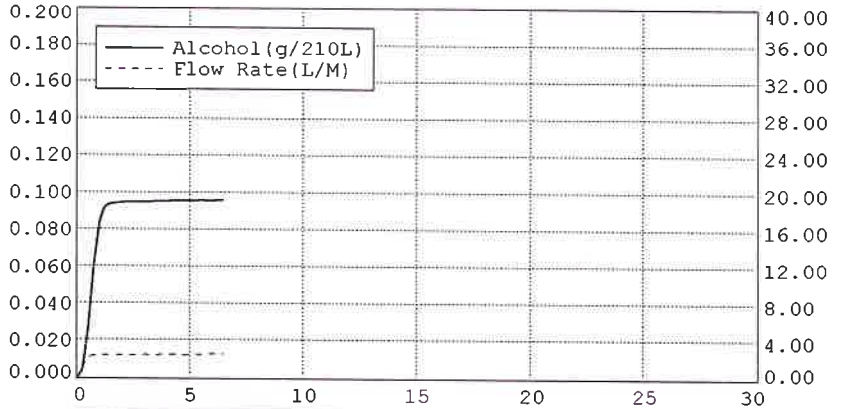
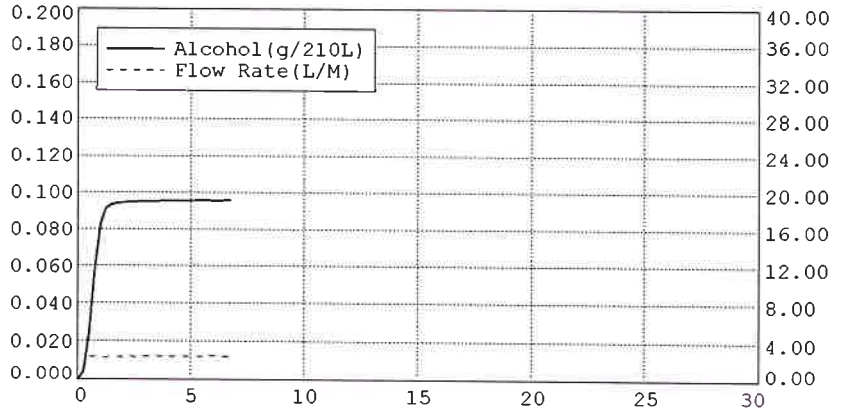
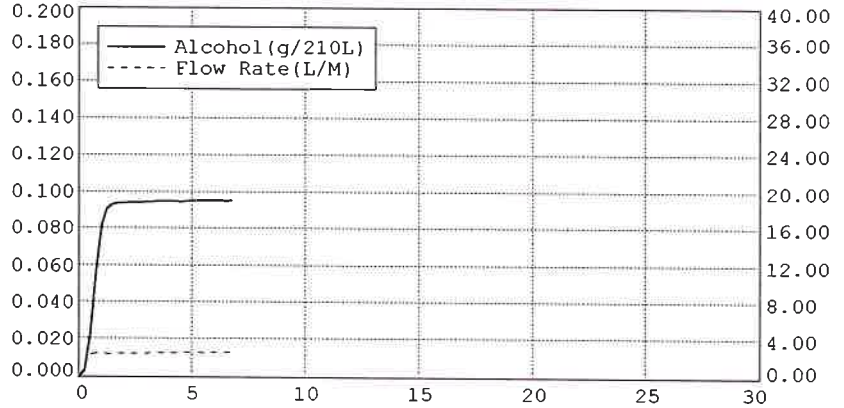
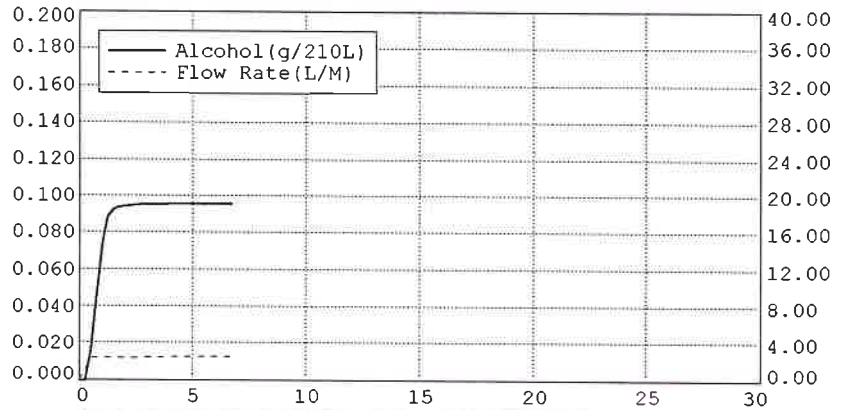
Date: 10/29/2025
Time: 09:39:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.11: 0.097
LOT #: AG333401
EXPIRATION: 11/30/2025
TANK PRESSURE: 800 psi

BLANK TEST	0.000	09:41
INTERNAL STANDARD	VERIFIED	09:41
EXTERNAL STANDARD	0.097	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.096	09:42
BLANK TEST	0.000	09:43
EXTERNAL STANDARD	0.097	09:43
BLANK TEST	0.000	09:44
EXTERNAL STANDARD	0.097	09:45
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.097	09:46
BLANK TEST	0.000	09:47

Average = 0.0968
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100361

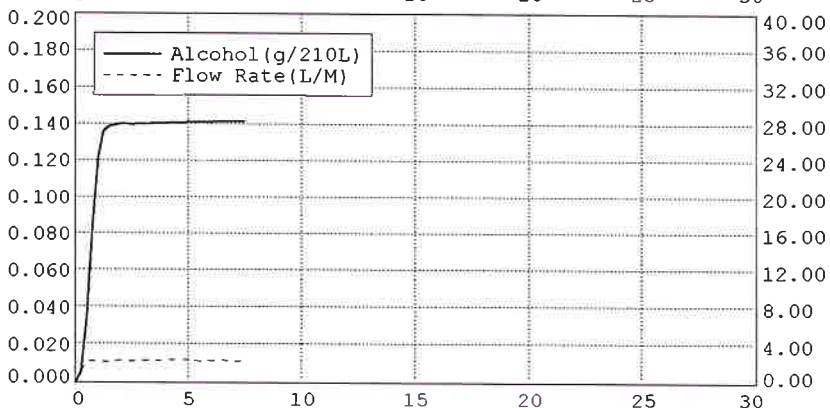
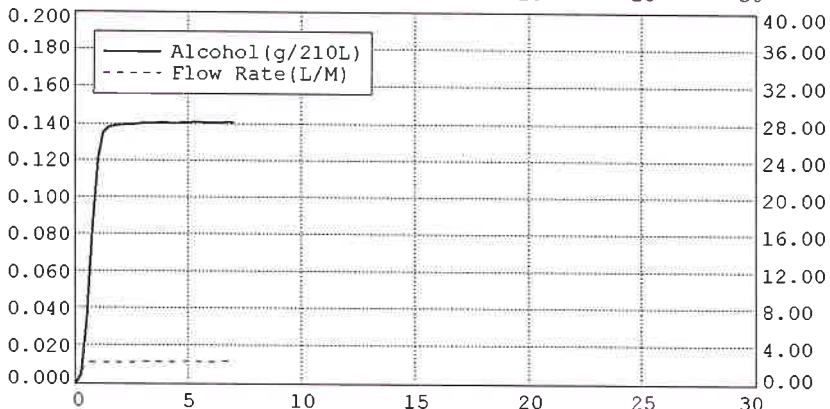
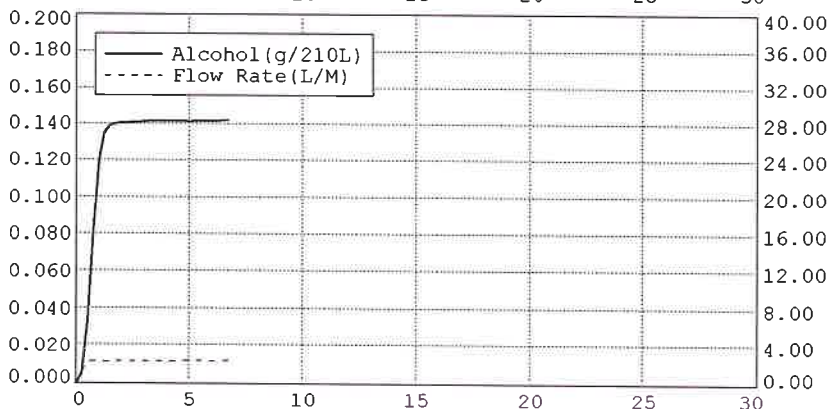
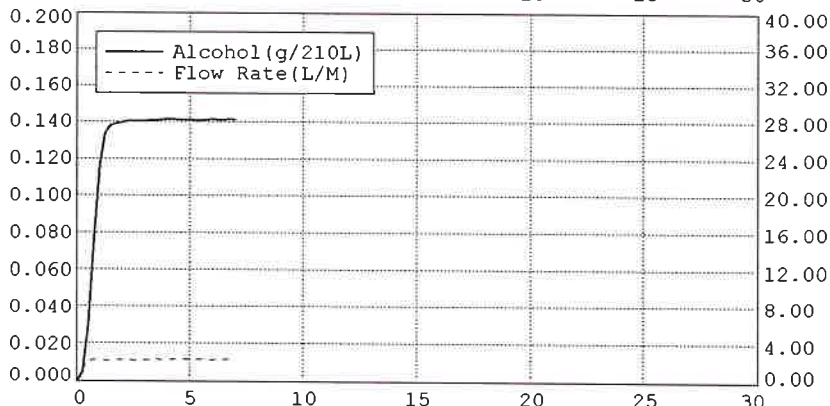
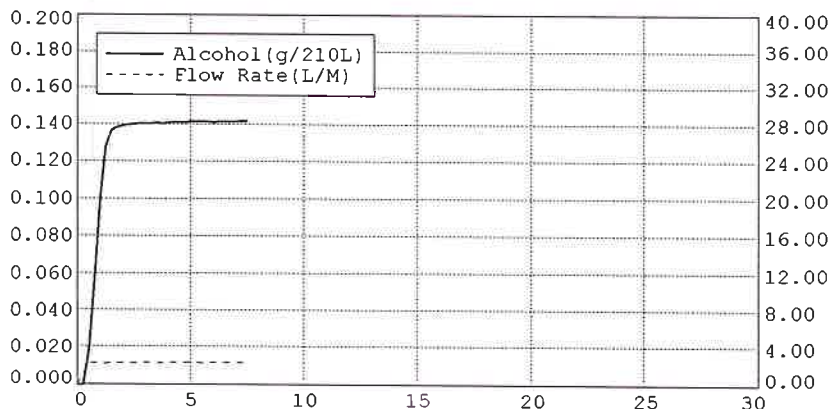
Date: 10/29/2025
Time: 09:51:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.150
TARGET AT 29.11: 0.146
LOT #: AG332004
EXPIRATION: 11/16/2025
TANK PRESSURE: 372 psi

BLANK TEST	0.000	09:52
INTERNAL STANDARD	VERIFIED	09:52
EXTERNAL STANDARD	0.142	09:52
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.142	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.142	09:55
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.142	09:56
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.142	09:57
BLANK TEST	0.000	09:58

Average = 0.1420
Std Dev = 0.0000



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100361

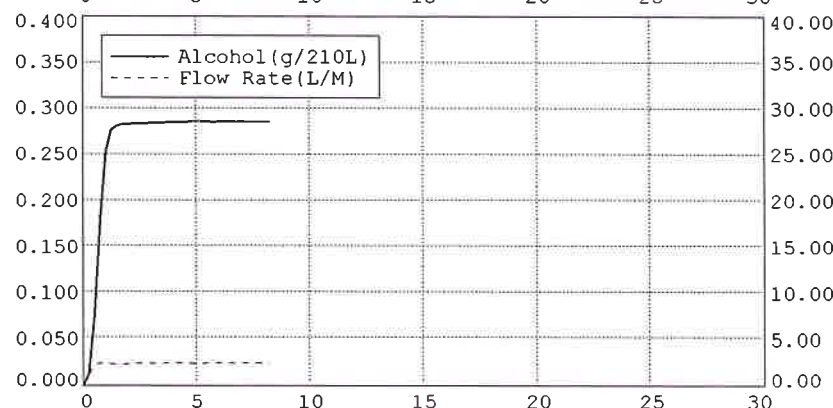
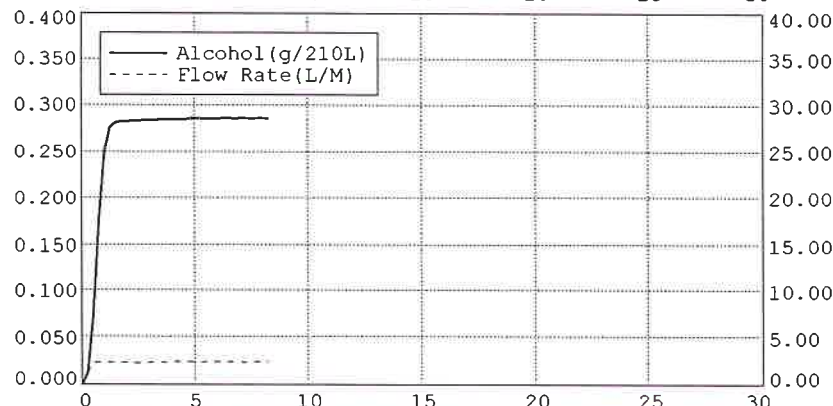
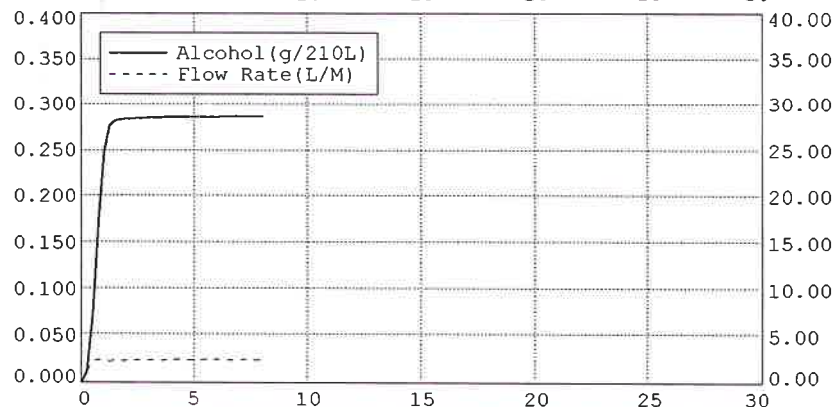
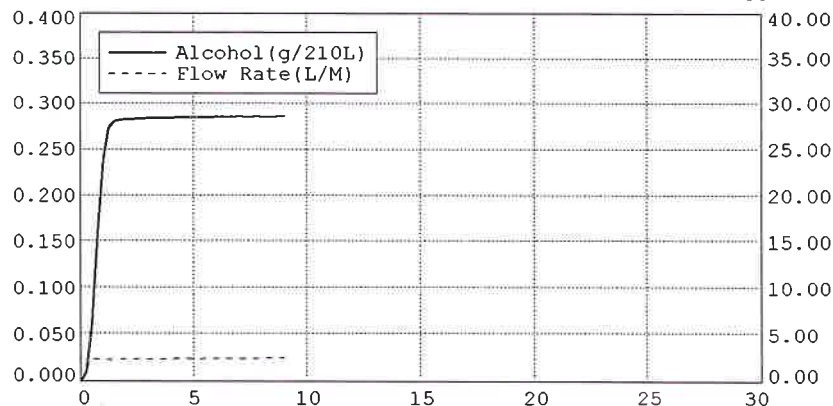
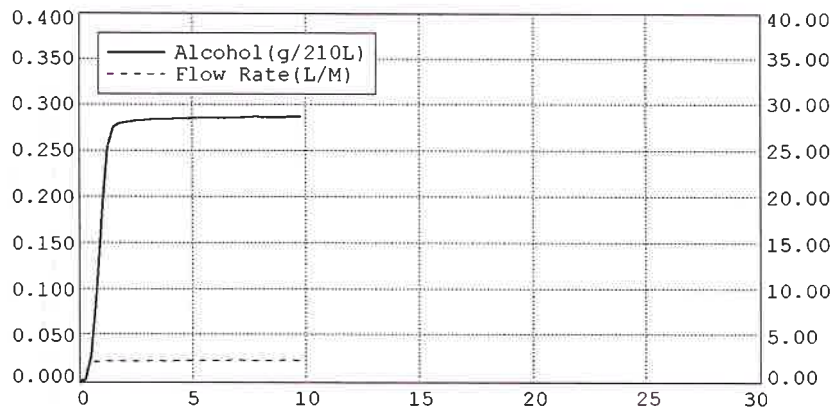
Date: 10/29/2025
Time: 10:01:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.10: 0.292
LOT #: AG427706
EXPIRATION: 10/03/2026
TANK PRESSURE: 176 psi

BLANK TEST	0.000	10:02
INTERNAL STANDARD	VERIFIED	10:02
EXTERNAL STANDARD	0.287	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.286	10:04
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.287	10:05
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.287	10:06
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.287	10:07
BLANK TEST	0.000	10:08

Average = 0.2868
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 10/29/2025
Time: 10:17:47

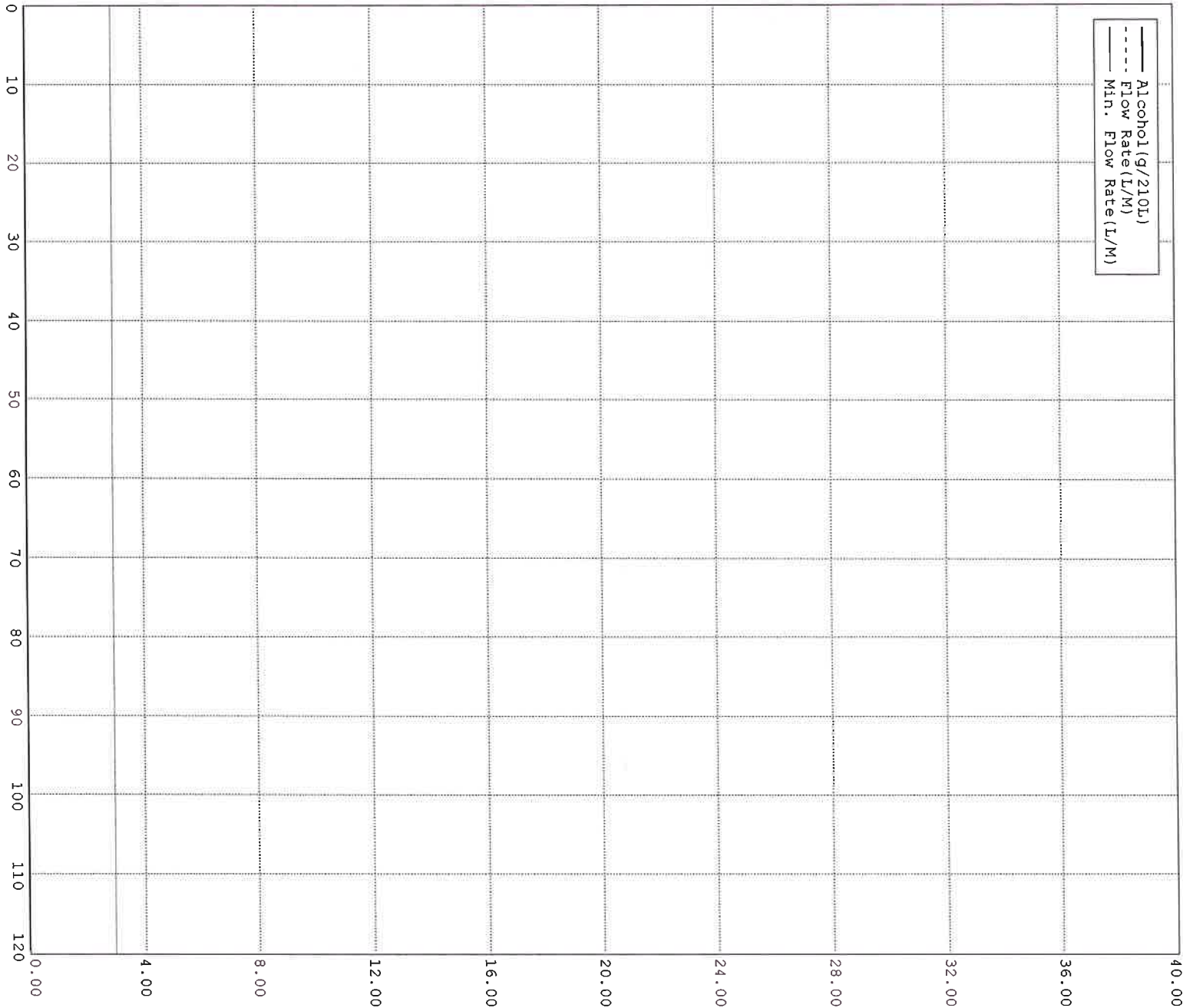
SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.10: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	10:18
BLANK TEST	0.000	10:19
INTERNAL STANDARD	VERIFIED	10:19
EXTERNAL STANDARD	0.076	10:19
BLANK TEST	0.000	10:20
SUBJECT SAMPLE	INCOMPLETE	10:22



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 10/29/2025
Time: 10:24:24

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

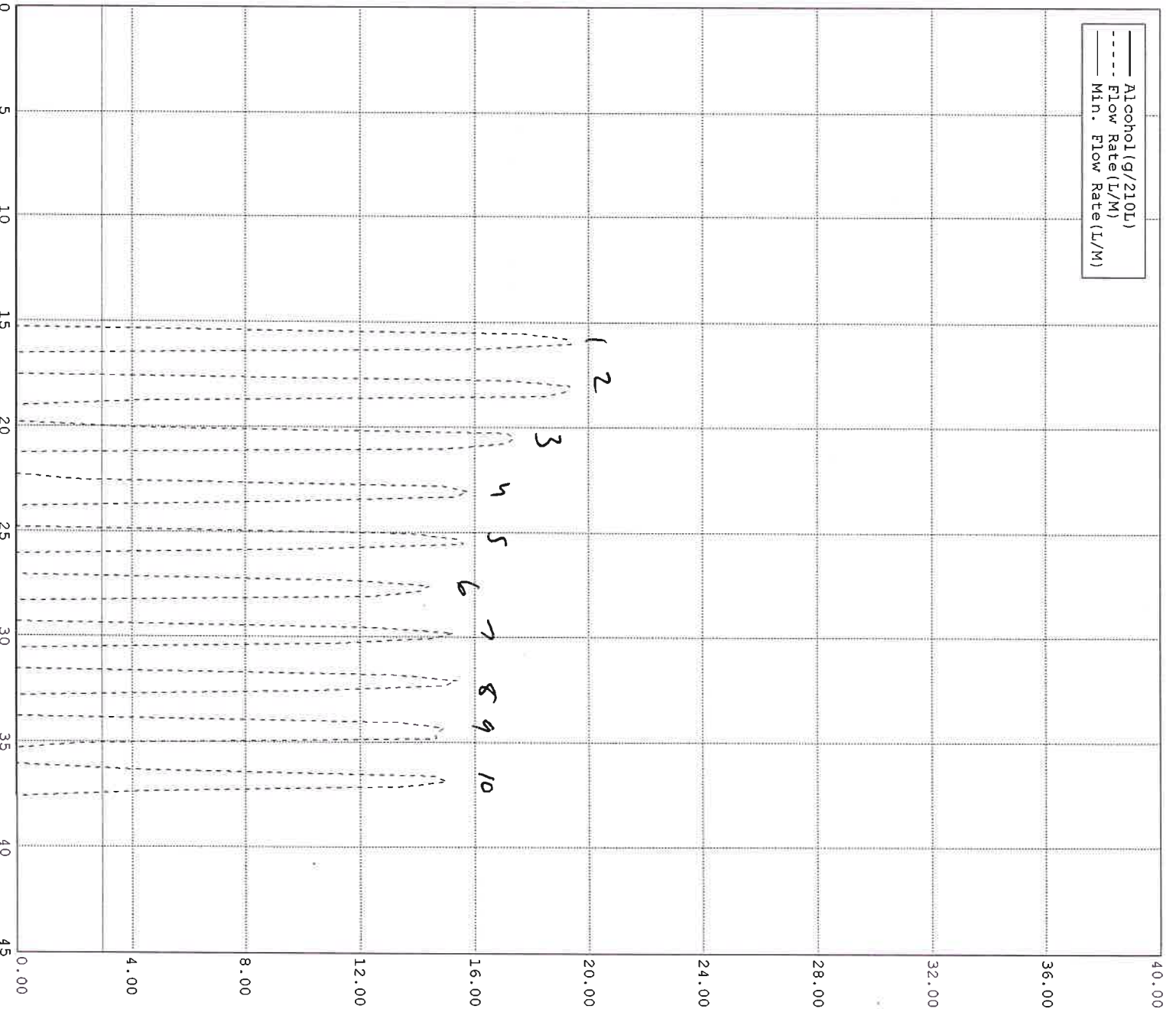
OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

DEPT/AGENCY:
MAX ATTEMPTS EXCEEDED
CASE/REPORT: XXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	10:25
BLANK TEST	0.000	10:25
INTERNAL STANDARD	VERIFIED	10:25
EXTERNAL STANDARD	0.076	10:25
BLANK TEST	0.000	10:26
SUBJECT SAMPLE	XXX	10:27

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 10/29/2025
Time: 10:37:11

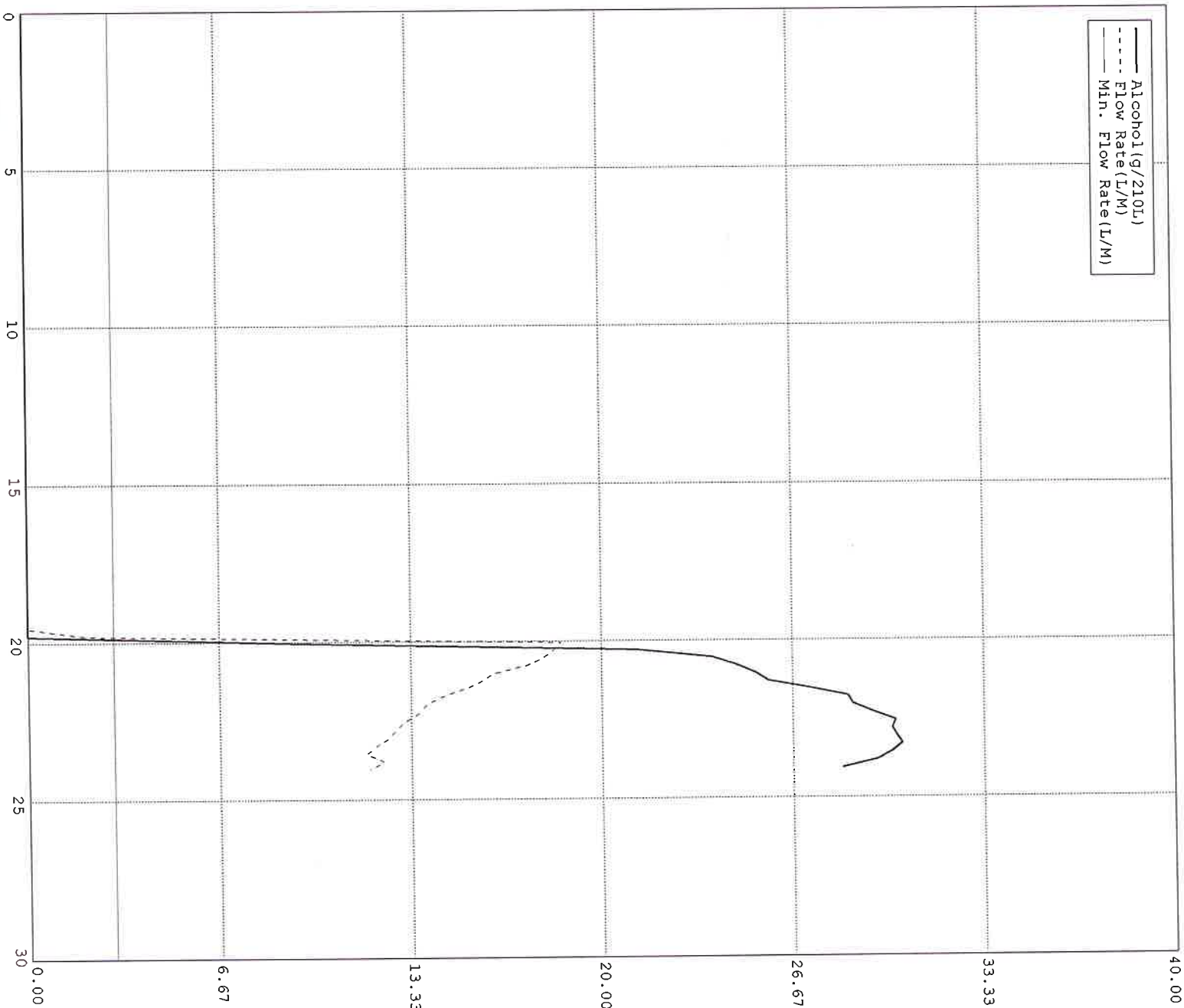
SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.08: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	10:38
BLANK TEST	0.000	10:38
INTERNAL STANDARD	VERIFIED	10:38
EXTERNAL STANDARD	0.076	10:39
BLANK TEST	0.000	10:39
SUBJECT SAMPLE	INVALID	10:40



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100361

Date: 10/29/2025
Time: 10:42:02

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

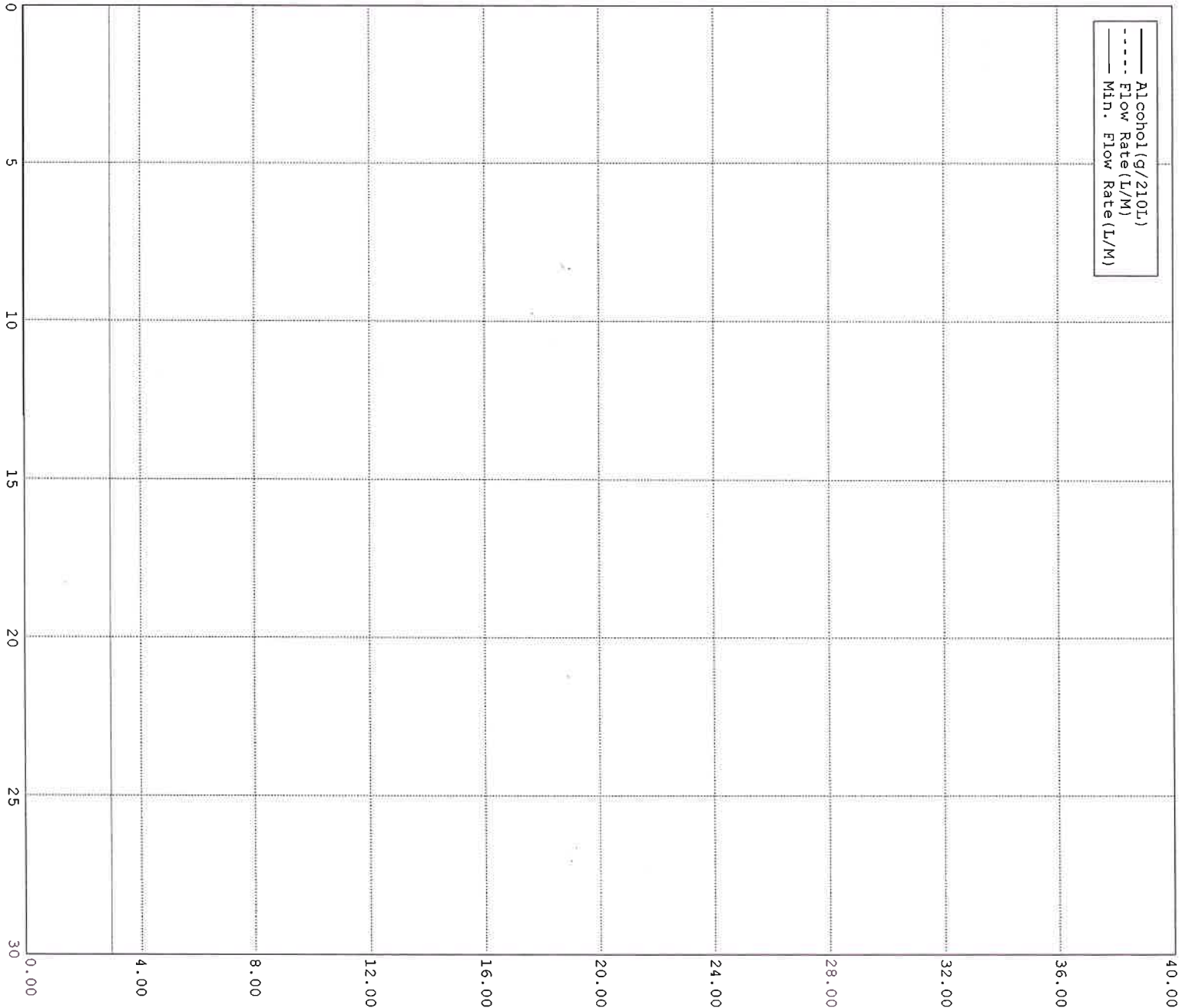
OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.09: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	10:43
BLANK TEST	0.000	10:43
INTERNAL STANDARD	VERIFIED	10:43
EXTERNAL STANDARD	0.076	10:44
BLANK TEST	0.000	10:44

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100361

Date: 10/29/2025
Time: 12:39:41

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
KALJA SWISHER
OPERATOR'S #: 10746

DEPT/AGENCY:
INTERFERENCE - ACETONE
CASE/REPORT: XXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.99: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025

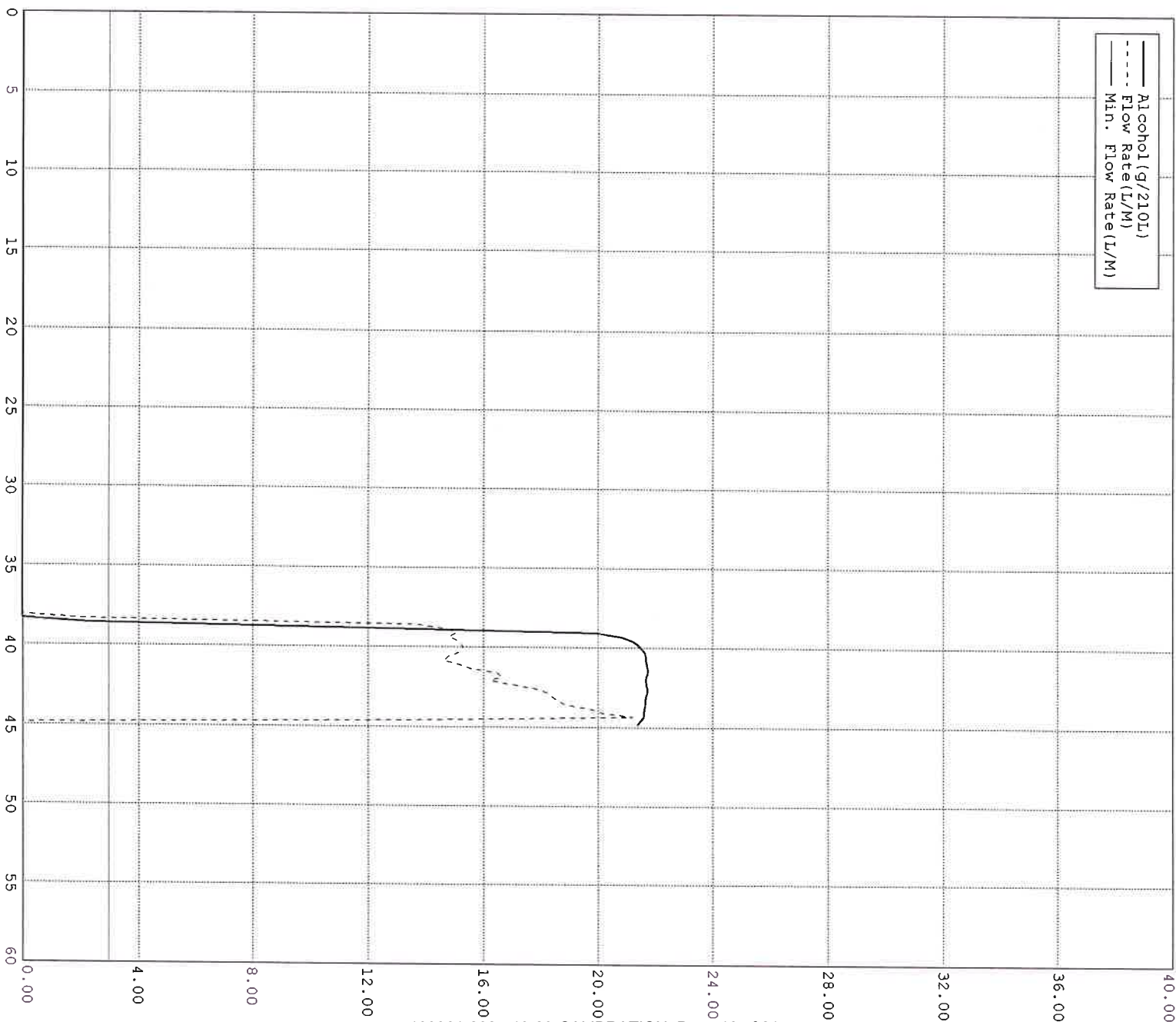
DIAGNOSTIC CHECK	PASSED	12:41
BLANK TEST	0.000	12:41
INTERNAL STANDARD	VERIFIED	12:41
Xq = 0.088 (0.20%)		
EXTERNAL STANDARD	0.075	12:41
X[1] = 0.0750 (-0.0026)	(0.0015)	
BLANK TEST	0.000	12:42
SUBJECT SAMPLE	XXX	12:43
X[1] = 0.1057 (-0.0216)	(-0.0009)	

Interference Detected

Filter 2 ave: -0.0020

Filter 3 ave: 0.0021

KS 10/29/25



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 10/29/2025
Time: 12:33:39

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

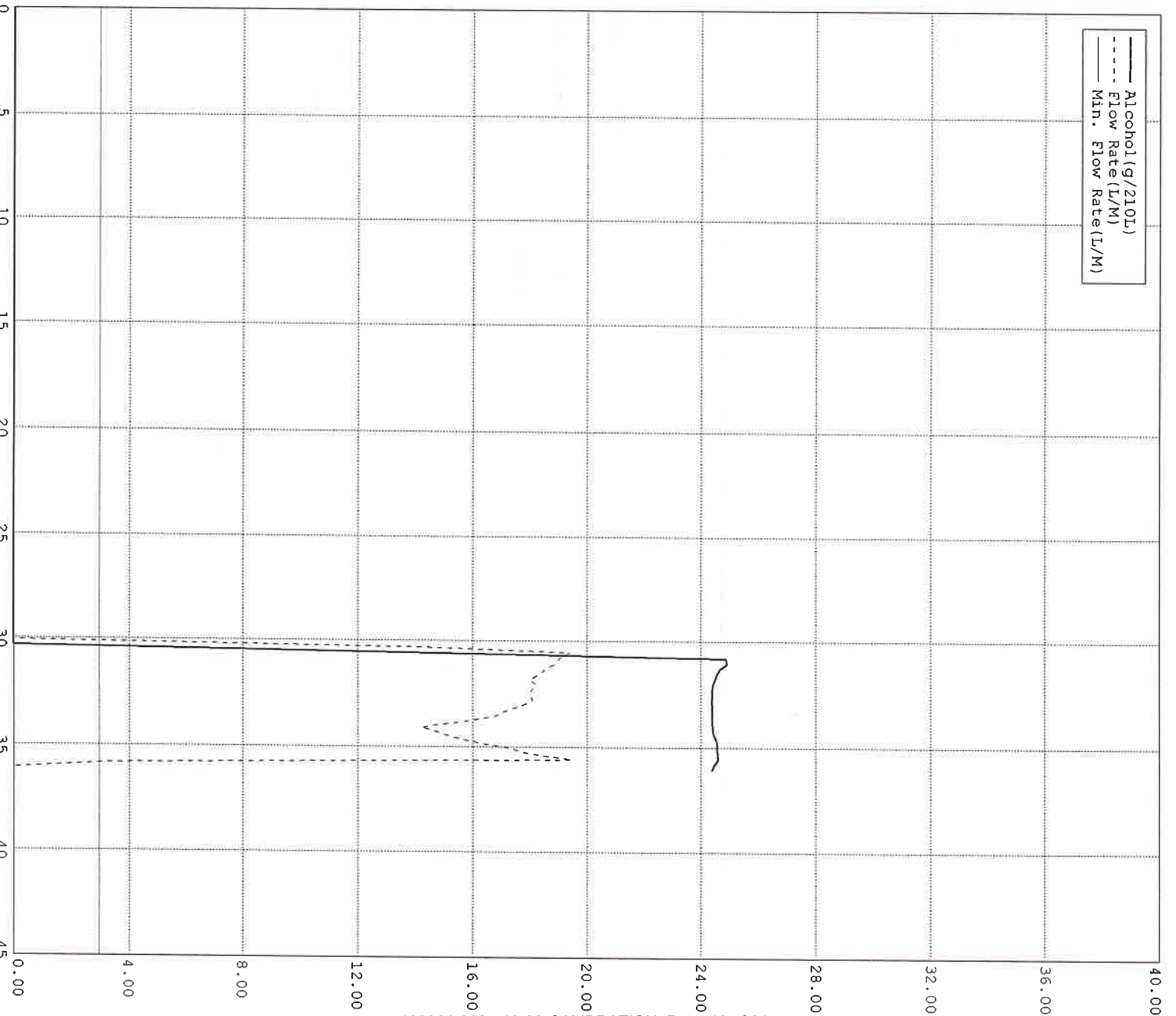
OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

DEPT/AGENCY:
INTERFERENCE - IPA
CASE/REPORT: XXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.99: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	12:34
BLANK TEST	0.000	12:34
INTERNAL STANDARD	VERIFIED	12:34
Xq = 0.088 (0.10%)		
EXTERNAL STANDARD	0.075	12:35
X[1] = 0.0746 (-0.0015)	(0.0029)	
BLANK TEST	0.000	12:36
SUBJECT SAMPLE	XXX	12:36
X[1] = 0.1205 (-0.0279)	(0.0017)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 10/29/2025
Time: 12:46:20

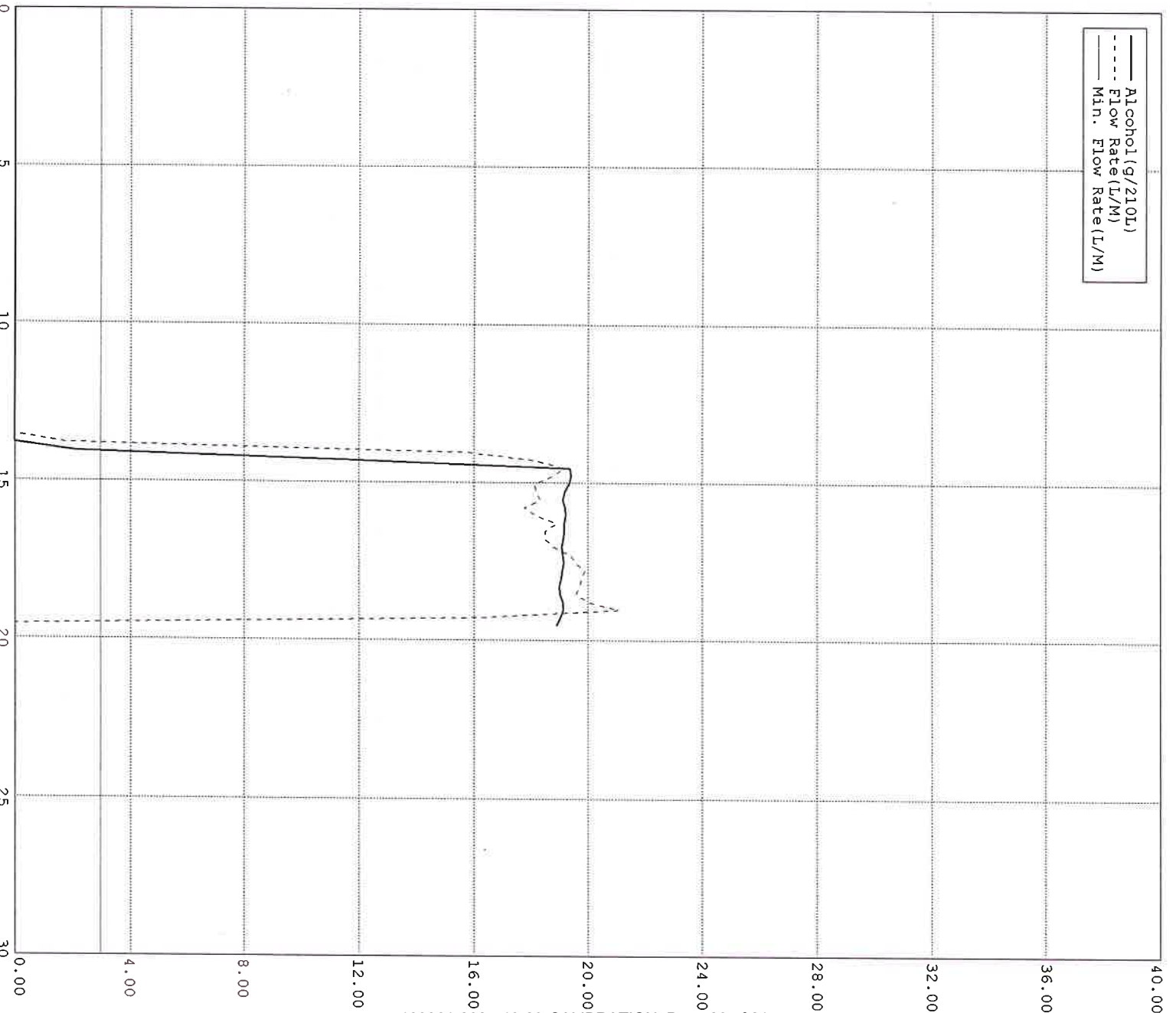
SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

DEPT/AGENCY:
INTERFERENCE - NEGATIVE
CASE/REPORT: XXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.99: 0.077
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	12:47
BLANK TEST	0.000	12:47
INTERNAL STANDARD	VERIFIED	12:47
Xq = 0.088 (0.40%)		
EXTERNAL STANDARD	0.076	12:47
X[1] = 0.0755 (-0.0021)	(0.0020)	
BLANK TEST	0.000	12:48
SUBJECT SAMPLE (Vol=1.72L)	0.093	12:49
X[1] = 0.0939 (0.0010)	(0.0007)	
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.075	12:50
X[1] = 0.0745 (-0.0018)	(0.0021)	
BLANK TEST	0.000	12:51



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 10/29/2025
Time: 13:14:52

SUBJECT NAME:
TEST TEST
LICENSE #: XXX

OPERATOR NAME:
KAIJA SWISHER
OPERATOR'S #: 10746

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.99: 0.077
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	13:16
BLANK TEST	0.000	13:16
INTERNAL STANDARD	VERIFIED	13:16
EXTERNAL STANDARD	0.078	13:16
BLANK TEST	0.000	13:17
SUBJECT SAMPLE (Vol=1.87L)	0.000	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.077	13:19
BLANK TEST	0.000	13:20

