



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: 100355

Report Issue Date: 06/26/2025
Date Received: 2023-08-30
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

Outside dusty, cleaned. Secured double check valve to wall. Replaced o-ring. Unable to perform As Found due to Filter Wheel Error during VOC.

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	AG408002	0.021	0.021	0.021	0.021	0.020	0.021	+/- 0.002
0.040	0.040	AG407908	0.040	0.041	0.040	0.041	0.040	0.040	+/- 0.003
0.080	0.079	AG335202	0.078	0.078	0.078	0.079	0.079	0.078	+/- 0.004
0.100	0.099	AG333401	0.100	0.100	0.100	0.100	0.100	0.100	+/- 0.004
0.150	0.148	AG332004	0.146	0.146	0.147	0.148	0.147	0.147	+/- 0.006
0.300	0.297	AG427706	0.297	0.296	0.296	0.297	0.296	0.296	+/- 0.012

As Left Conditions - Barometric Pressure (inHg): 29.64 Barometer Used: VWR S/N 240680771 Temperature (C): 22.1 Relative Humidity (%): 42

As-Left Lab Activity Date Range: 06/23/2025 - 06/24/2025

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.

C. O'Bryant

Results authorized by Colleen O'Bryant on 06/26/2025

colleen.obryant@alaska.gov

Technically and administratively reviewed by Carlie Glaister on 06/26/2025

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 1/23/2024

Version: 4.0

Instrument #: 100355 Analyst or Technician Name: C.O. Bryant

DataMaster DMT Calibration Start Date: 6/23/25

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: 340680771
Calibration Due Date: 10 Sept 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) 22.1 Relative Humidity(%) 42

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

Functional Tests

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

1. Acetone Reagent Lot Number: 20250603KS Expiration Date: 7/07/25
Simulator S/N: SD1200 Thermometer Verification Performed?
2. Isopropanol Reagent Lot Number: 20250603KS Expiration Date: 9/3/25
Simulator S/N: SD1198 Thermometer Verification Performed?
3. Negative (Ethanol Only) Lot Number: 231D41033 Expiration Date: 9/10/25 COB 2025.06.26
Simulator S/N: SD1199 Thermometer Verification Performed? 2025.09.20

Calibrated External Thermometer S/N: 230631106
Calibration Due Date: 19 Sep 25

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: 6/24/25

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

Data Interpretation Date (Analyst): 6/24/25

All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 06/23/2025
Time: 14:01:25

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 = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.69 V PASSED
(1.01 V - 2.37 V)
Cooler Voltage = 2.04 V PASSED
(1.22 V - 2.86 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 527 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 5.217 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 = 0.081 0.76% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100355

Date: 06/23/2025
Time: 2:24 PM

Temperatures (°C)

Sample Cell: 48.2°C
Breath Tube: 46.8°C

Current Barometer 29.7 in
Volume (Ltr) 1.52

Settings

Lamp: 1.71 V
Bias: 80 V
Cooler: 1.99 V
Chopper: 520 Hz

Voltages (V)

Flow: 1.04 V
Detector: -0.013 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 06/16/2025
Time: 14:41:48

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca = 0.1000
CAL = 1.006108 0.800 <= CAL < 1.200
b1 = 0.0010 0.0000 <= b1 < 0.0040
b2 = 0.0043 0.0010 <= b2 < 0.0100
b3 = 0.0010 0.0000 <= b3 < 0.0040
Xq = 0.0803 0.0500 <= Xq < 0.2000
a21 = 1.201392 1.050 <= a21 < 1.300
a31 = 0.540869 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 06/24/2025
Time: 08:47:05

SUBJECT NAME:

TEST TEST
LICENSE #: VOLUME TEST

OPERATOR NAME:

COLLEEN S OBRYANT
OPERATOR'S #: 6237

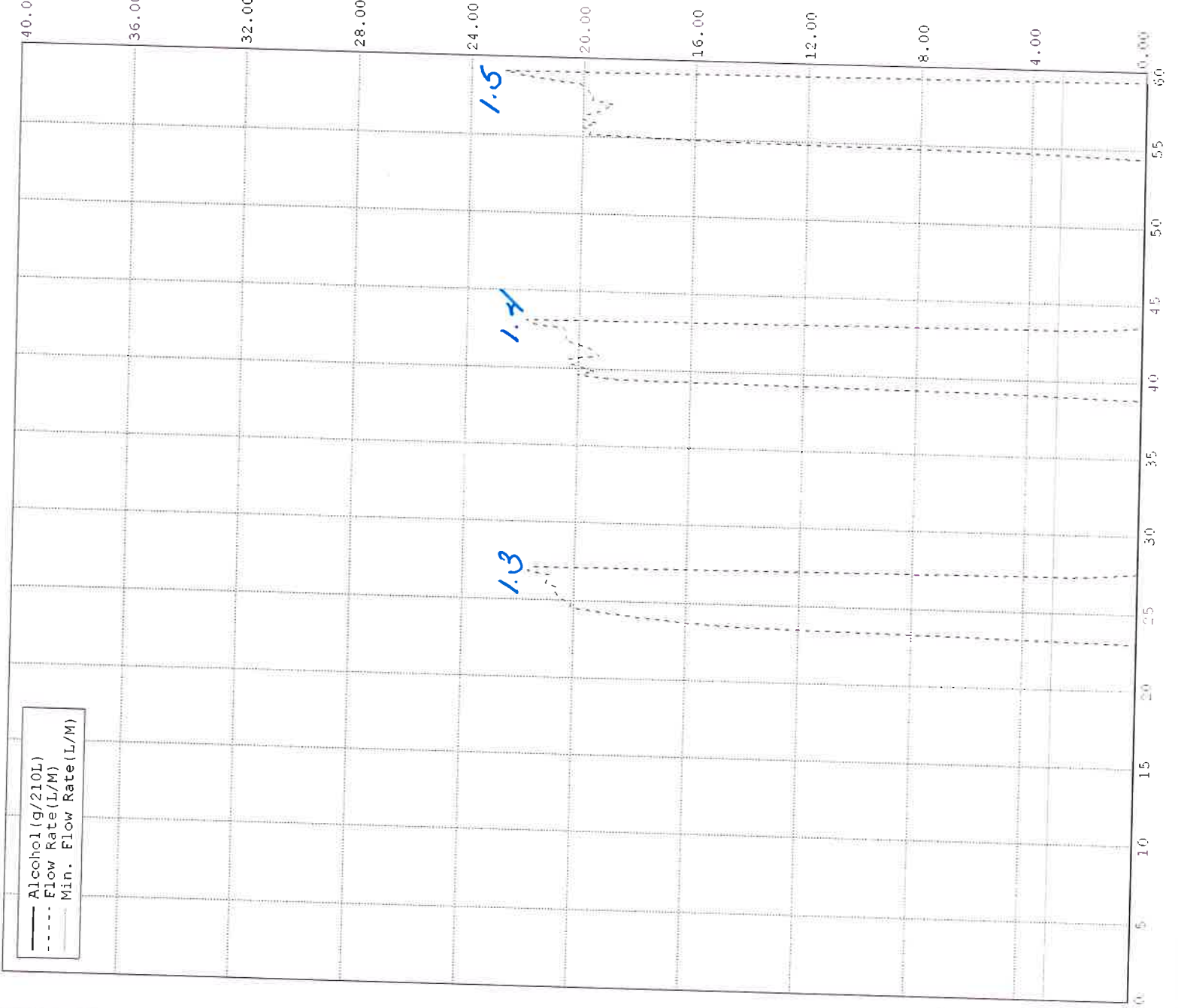
DEPT/AGENCY:

AAA1
CASE/REPORT: 25-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	08:48
BLANK TEST	0.000	08:49
INTERNAL STANDARD	VERIFIED	08:49
EXTERNAL STANDARD	0.079	08:49
BLANK TEST	0.000	08:50
SUBJECT SAMPLE (Vol=1.50L)	0.000	08:51
BLANK TEST	0.000	08:52
EXTERNAL STANDARD	0.078	08:52
BLANK TEST	0.000	08:53



LINEARITY CHECK

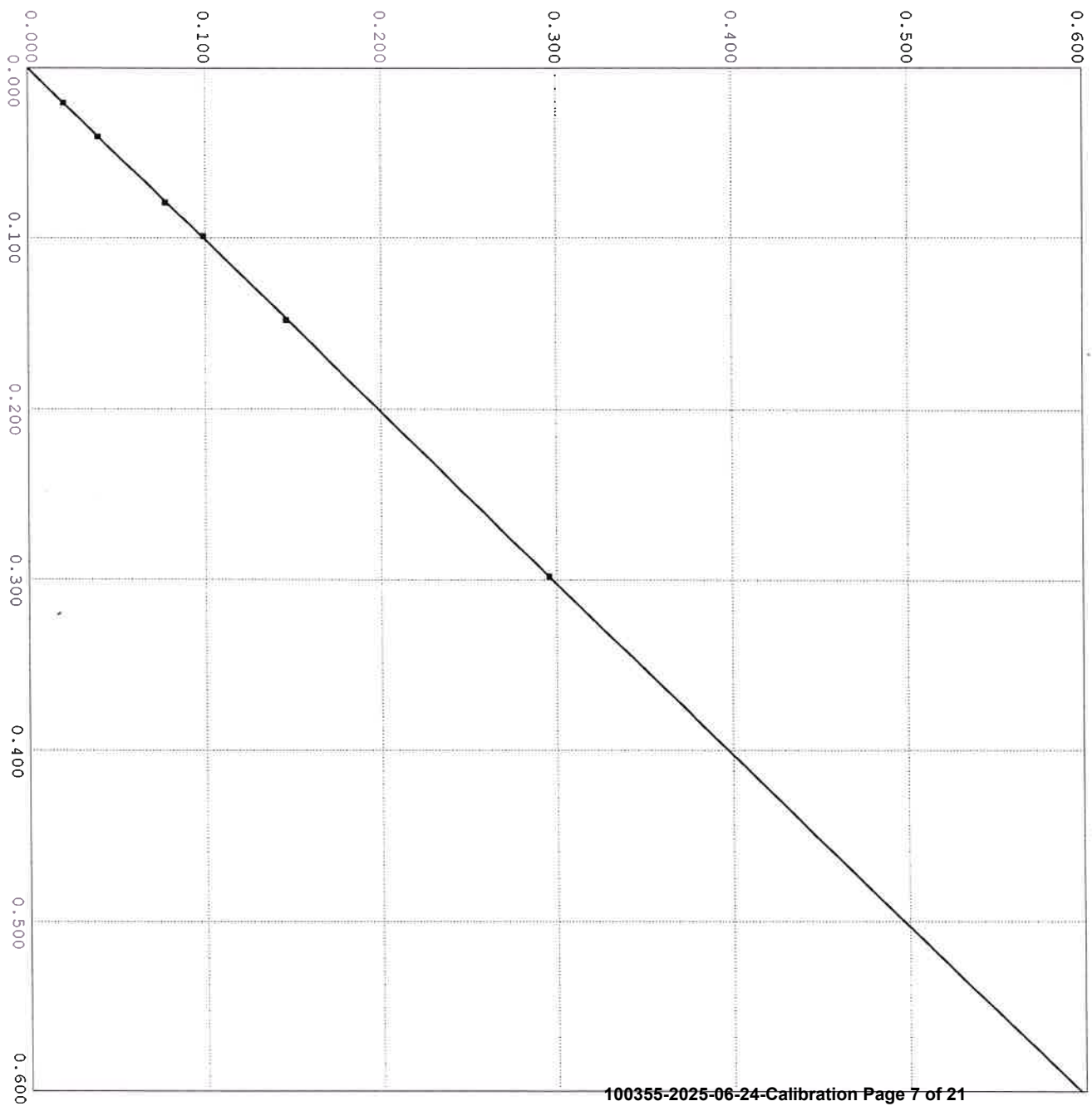
Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 06/24/2025
Time: 08:55:27

SUPERVISOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.020	0.0208	0.0004
0.040	0.0404	0.0005
0.079	0.0784	0.0005
0.099	0.1000	0.0000
0.148	0.1468	0.0008
0.297	0.2964	0.0005

SLOPE = 0.995052
R² = 0.999946



CAR

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100355

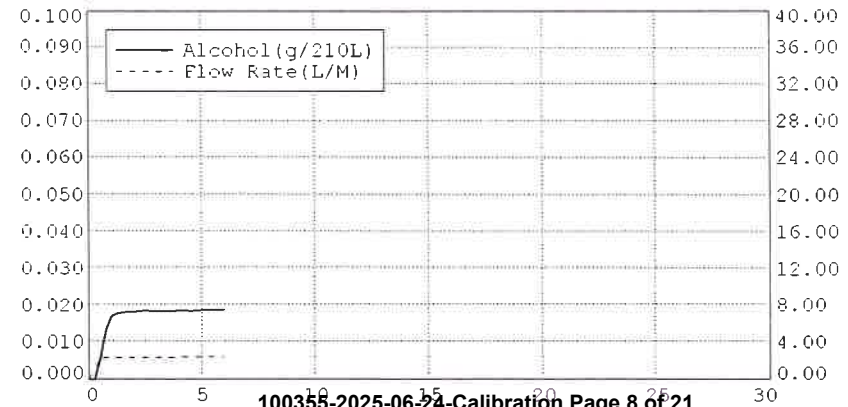
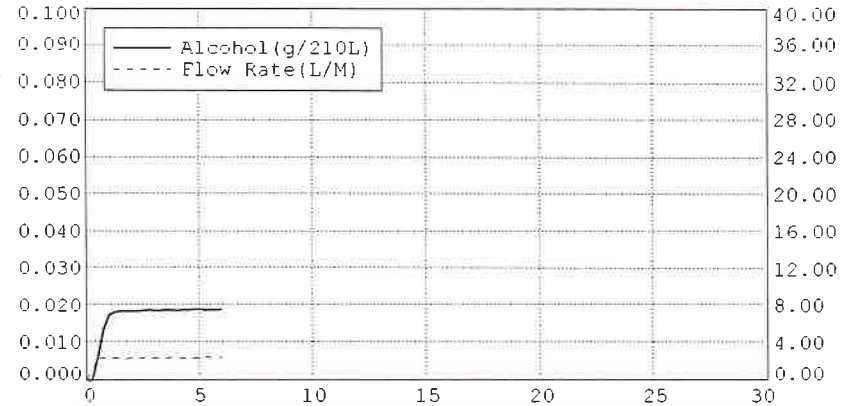
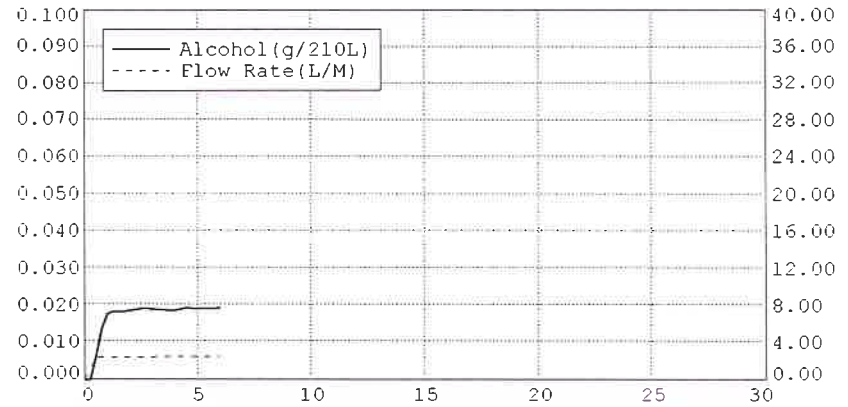
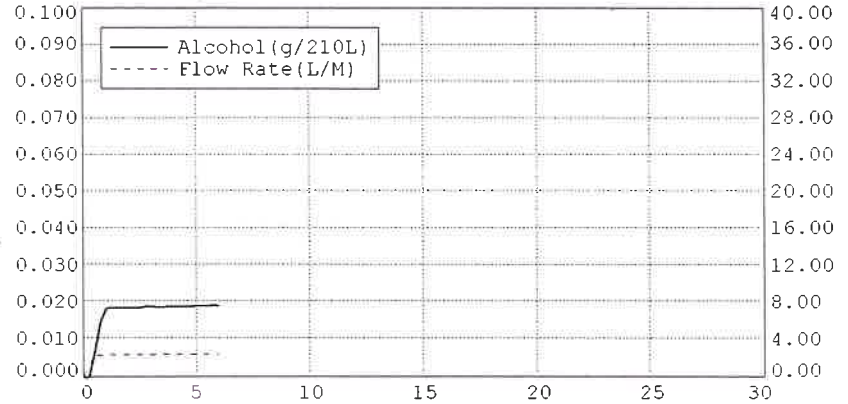
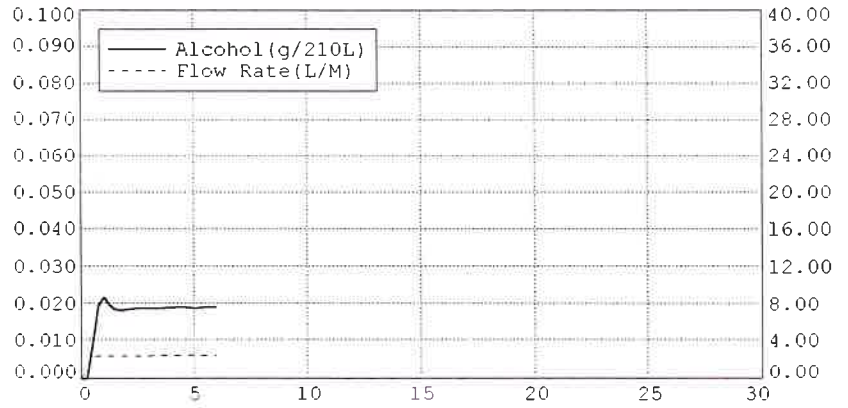
Date: 06/24/2025
 Time: 08:55:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.63: 0.020
 LOT #: AG408002
 EXPIRATION: 03/20/2026
 TANK PRESSURE: 708 psi

BLANK TEST	0.000	08:59
INTERNAL STANDARD	VERIFIED	08:59
EXTERNAL STANDARD	0.021	08:59
BLANK TEST	0.000	09:00
EXTERNAL STANDARD	0.021	09:00
BLANK TEST	0.000	09:01
EXTERNAL STANDARD	0.021	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.021	09:02
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.020	09:03
BLANK TEST	0.000	09:04

Average = 0.0208
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100355

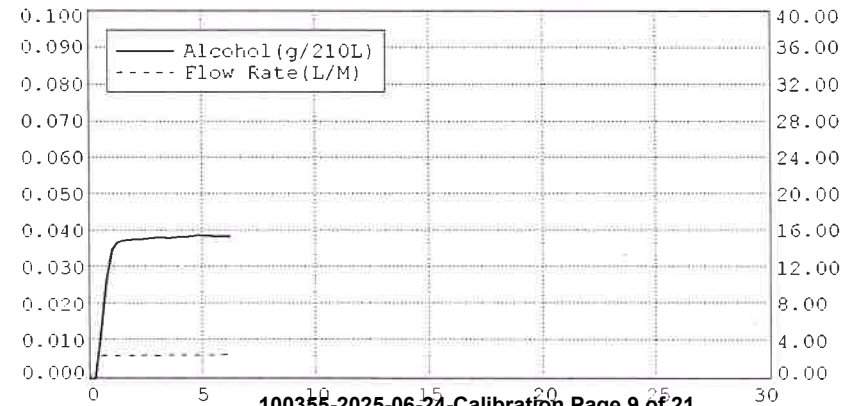
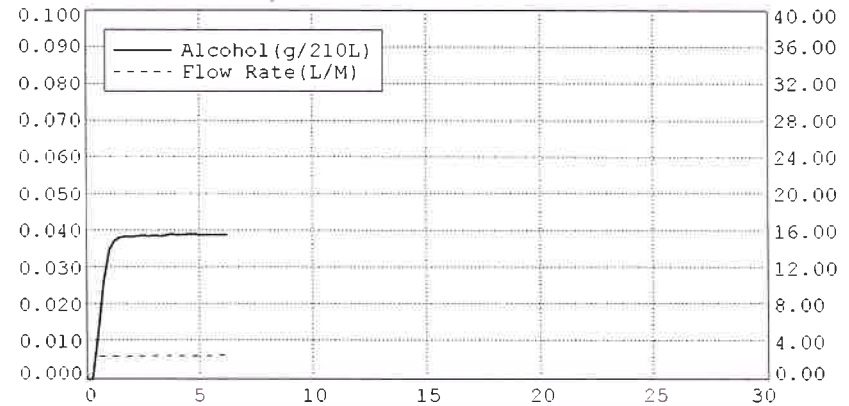
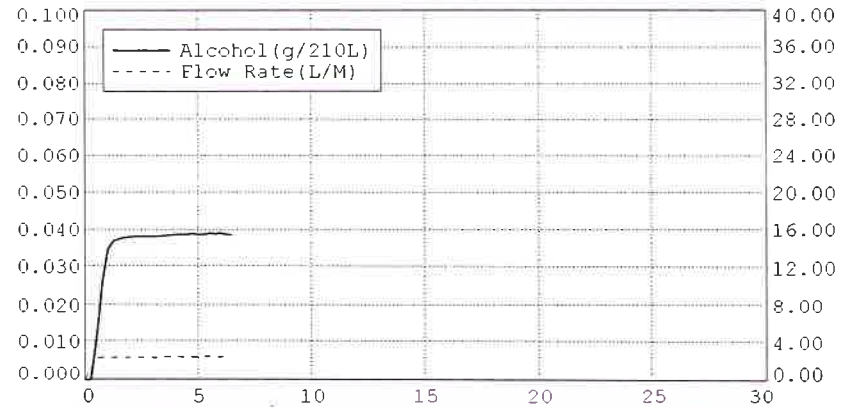
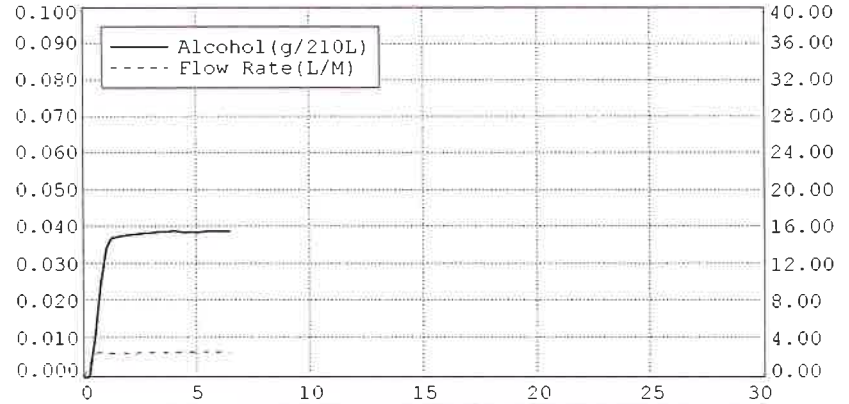
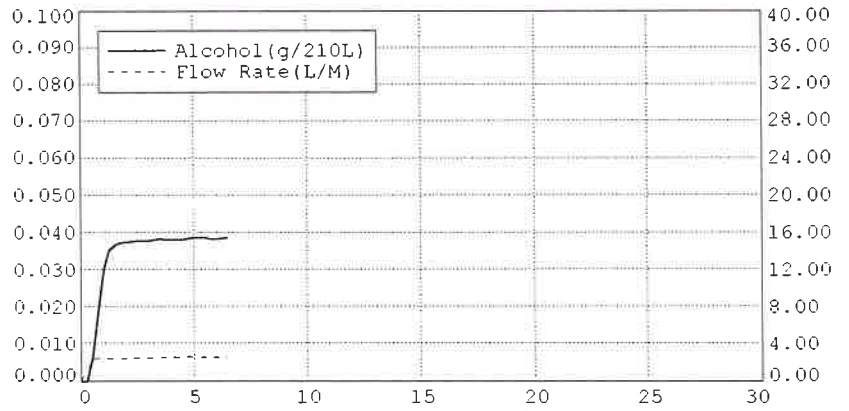
Date: 06/24/2025
 Time: 09:05:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.63: 0.040
 LOT #: AG407908
 EXPIRATION: 03/19/2026
 TANK PRESSURE: 1022 psi

BLANK TEST	0.000	09:07
INTERNAL STANDARD	VERIFIED	09:07
EXTERNAL STANDARD	0.040	09:07
BLANK TEST	0.000	09:08
EXTERNAL STANDARD	0.041	09:08
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.040	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.041	09:10
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.040	09:11
BLANK TEST	0.000	09:12

Average = 0.0404
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100355

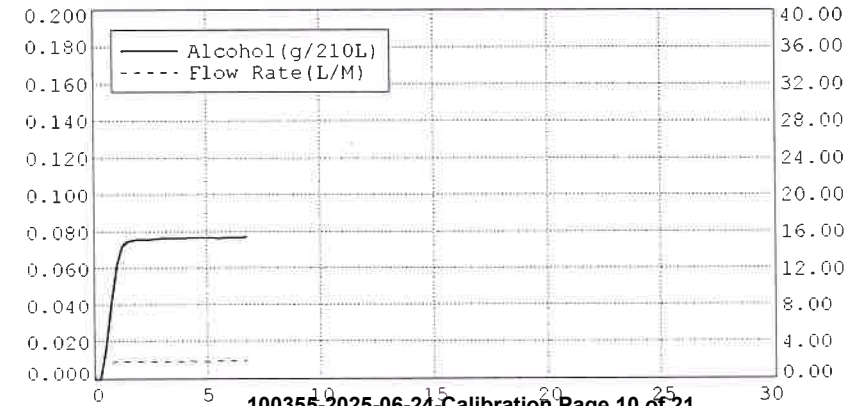
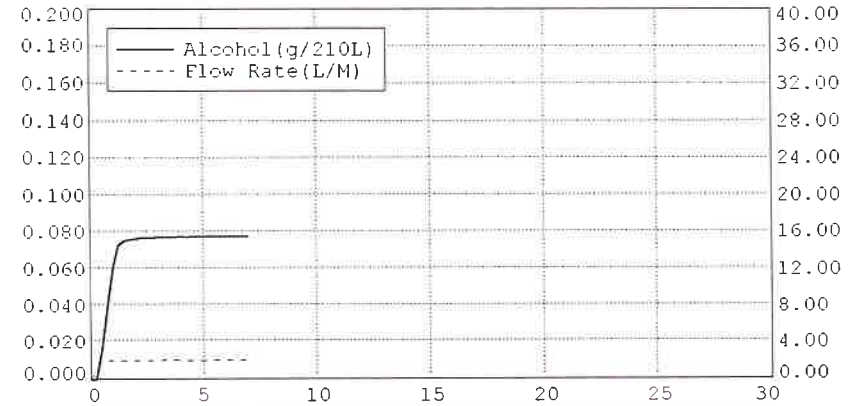
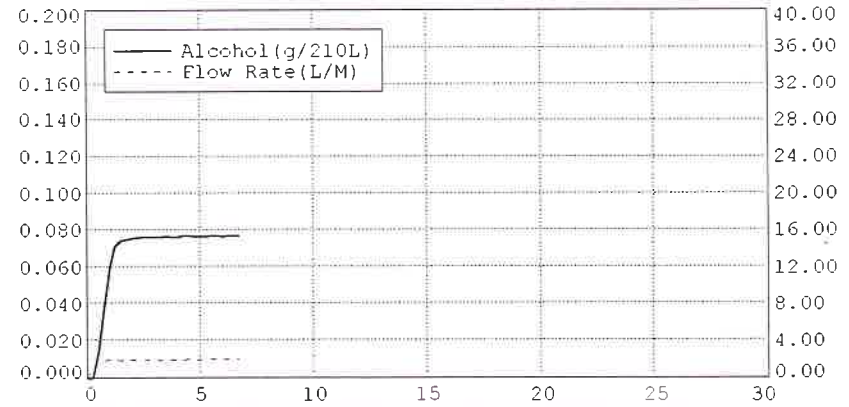
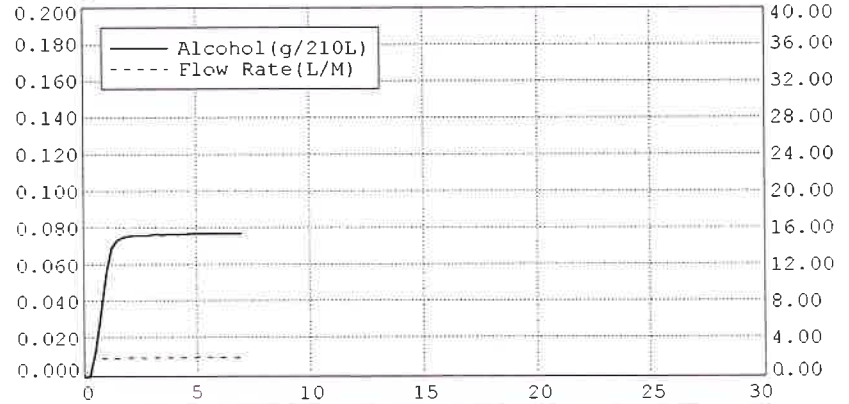
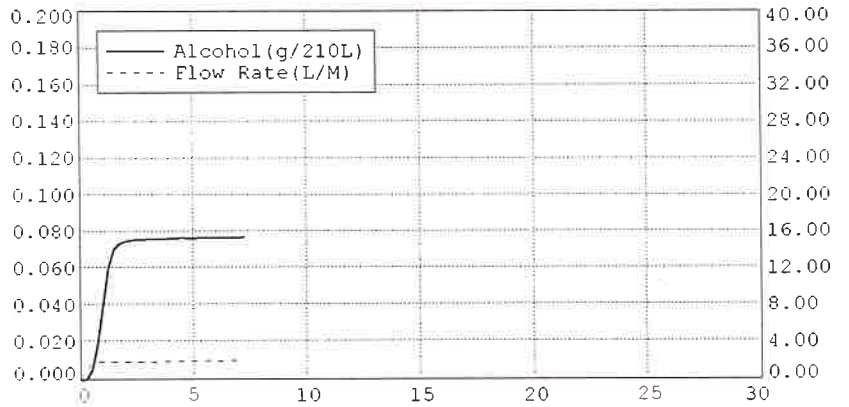
Date: 06/24/2025
 Time: 09:23:22

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.63: 0.079
 LOT #: AG335202
 EXPIRATION: 12/18/2025
 TANK PRESSURE: 158 psi

BLANK TEST	0.000	09:24
INTERNAL STANDARD	VERIFIED	09:24
EXTERNAL STANDARD	0.078	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.078	09:26
BLANK TEST	0.000	09:27
EXTERNAL STANDARD	0.078	09:27
BLANK TEST	0.000	09:28
EXTERNAL STANDARD	0.079	09:28
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.079	09:29
BLANK TEST	0.000	09:30

Average = 0.0784
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100355

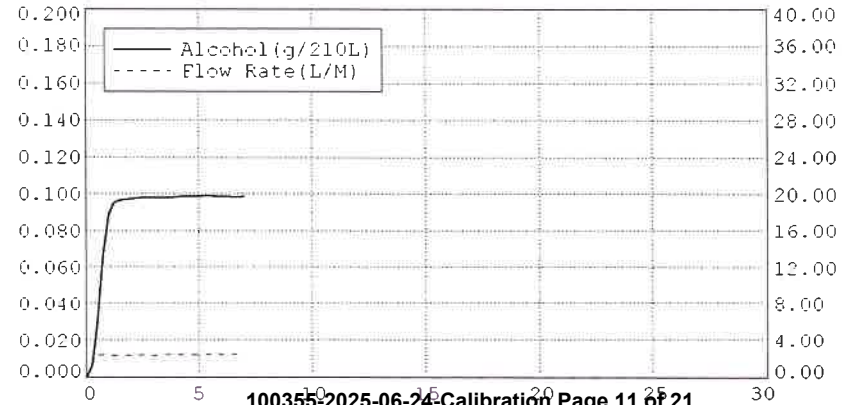
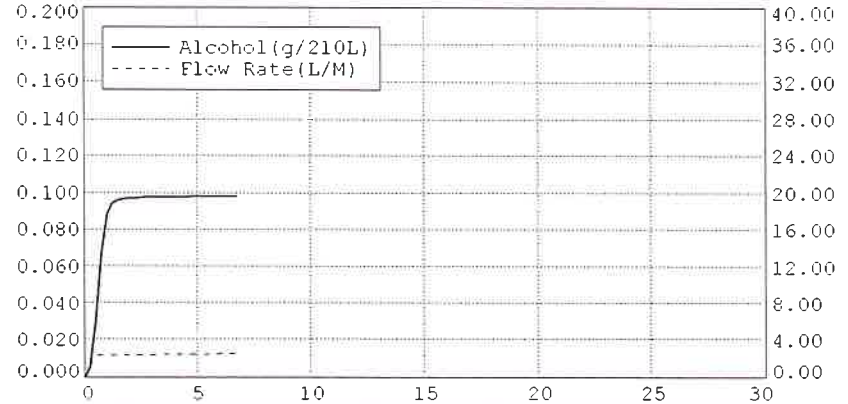
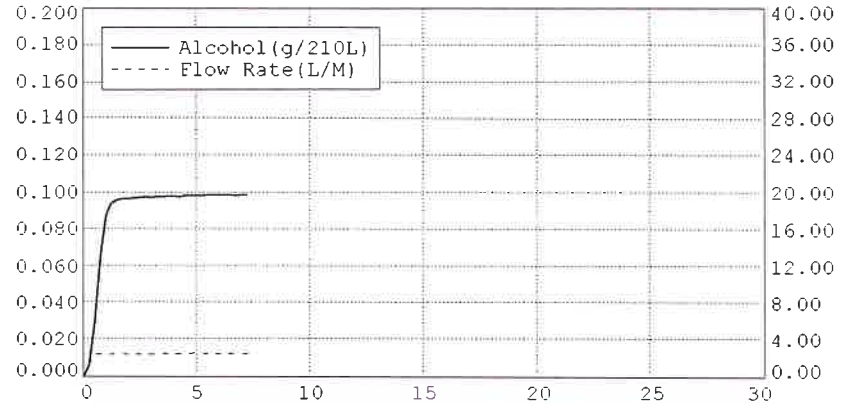
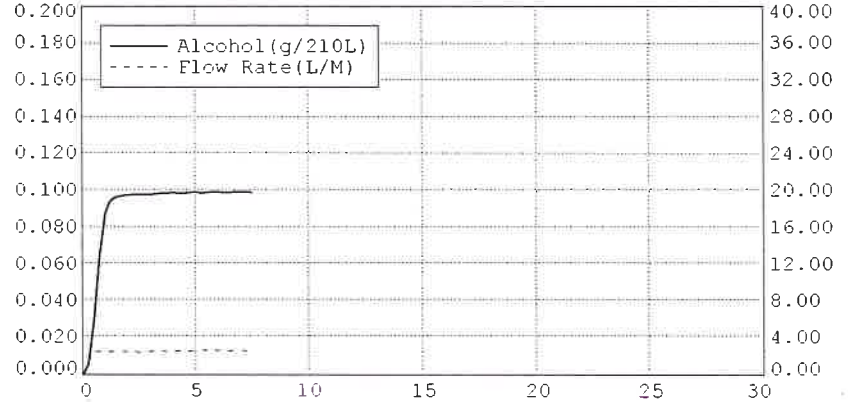
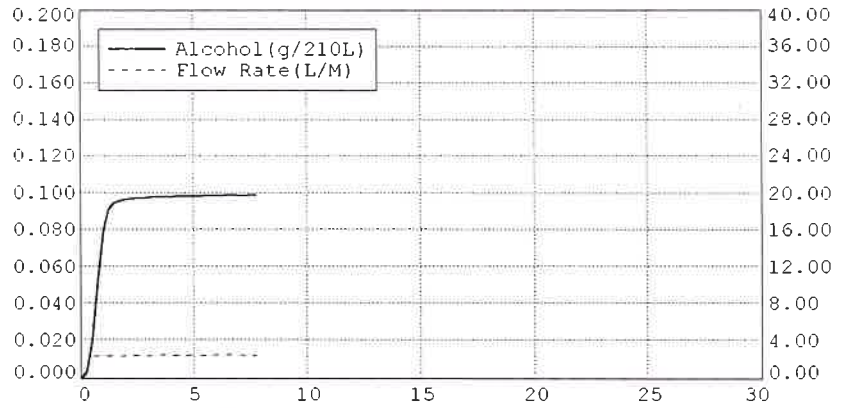
Date: 06/24/2025
 Time: 09:31:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.64: 0.099
 LOT #: AG333401
 EXPIRATION: 11/30/2025
 TANK PRESSURE: 958 psi

BLANK TEST	0.000	09:32
INTERNAL STANDARD	VERIFIED	09:32
EXTERNAL STANDARD	0.100	09:32
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.100	09:34
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.100	09:35
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.100	09:36
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.100	09:37
BLANK TEST	0.000	09:38

Average = 0.1000
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100355

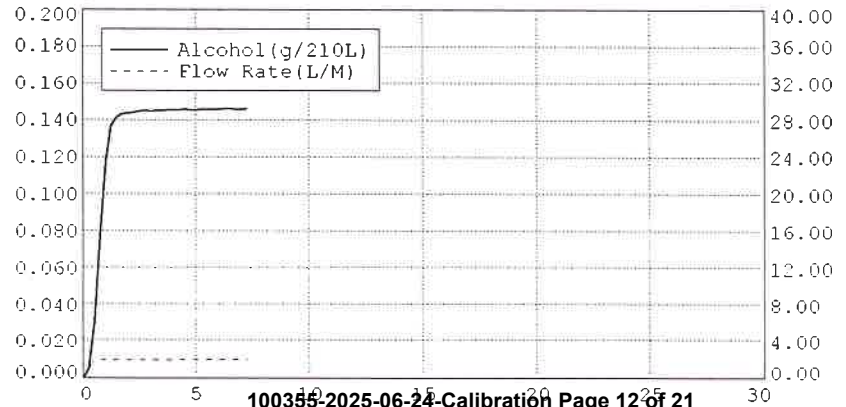
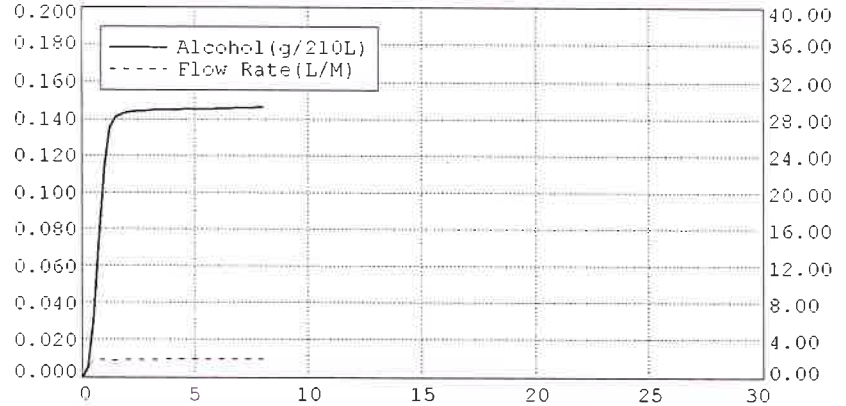
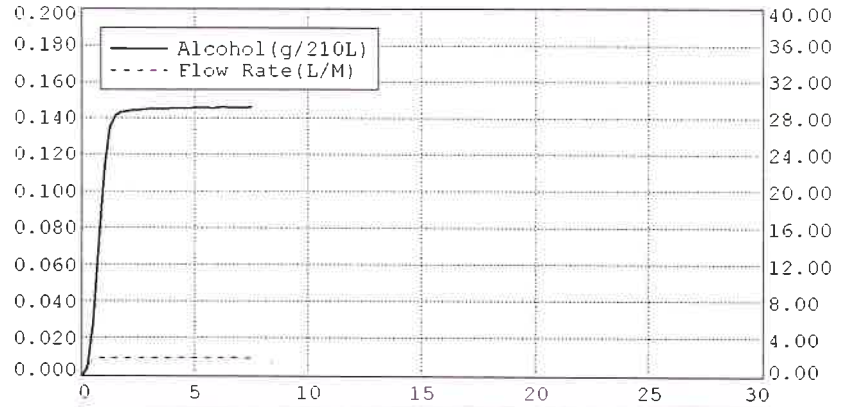
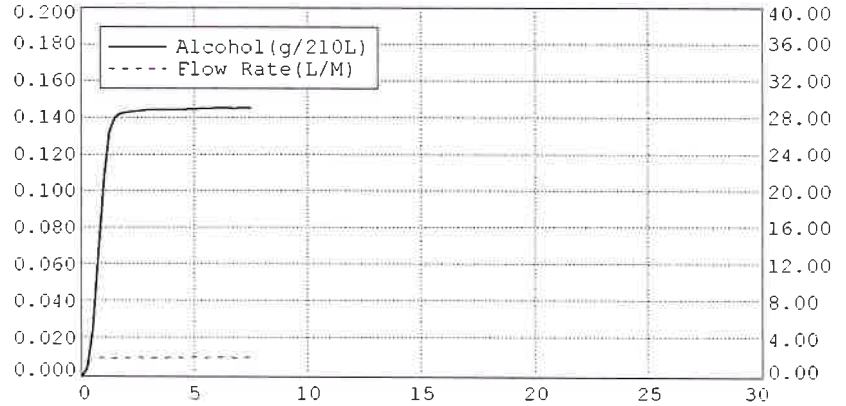
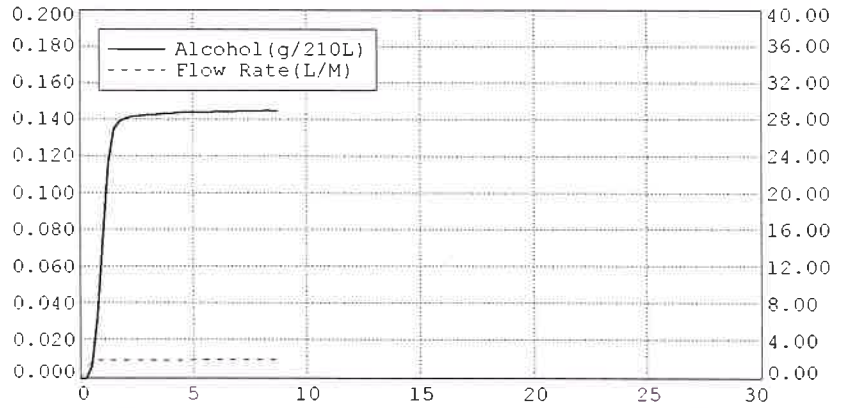
Date: 06/24/2025
 Time: 11:36:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.150
 TARGET AT 29.61: 0.148
 LOT #: AG332004
 EXPIRATION: 11/16/2025
 TANK PRESSURE: 179 psi

BLANK TEST	0.000	11:37
INTERNAL STANDARD	VERIFIED	11:37
EXTERNAL STANDARD	0.146	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.146	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.147	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.148	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.147	11:42
BLANK TEST	0.000	11:43

Average = 0.1468
 Std Dev = 0.0008



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100355

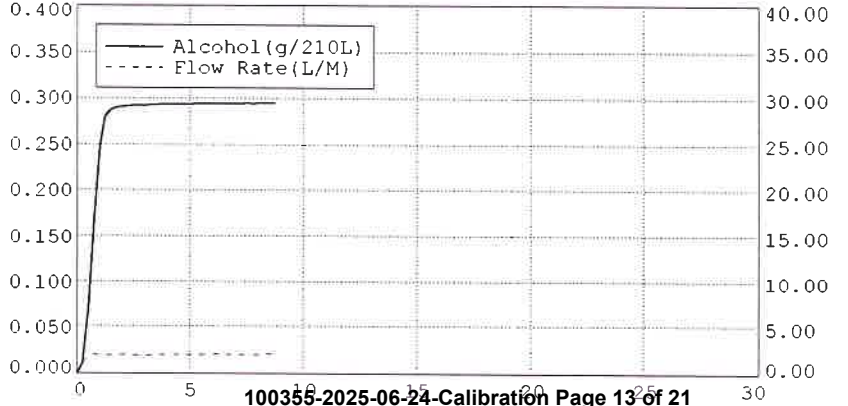
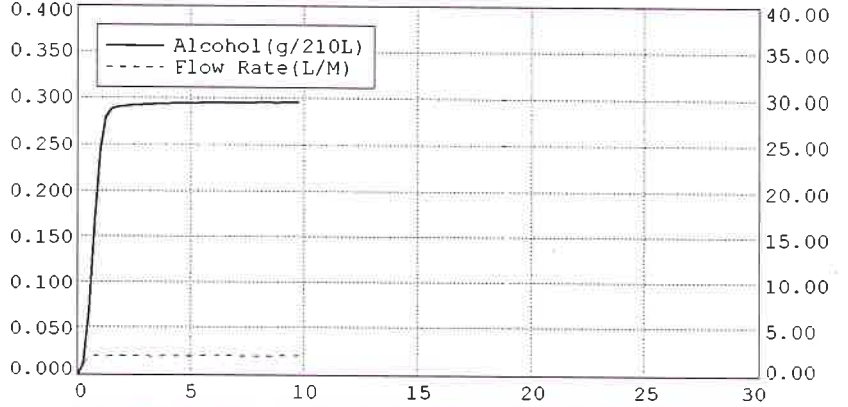
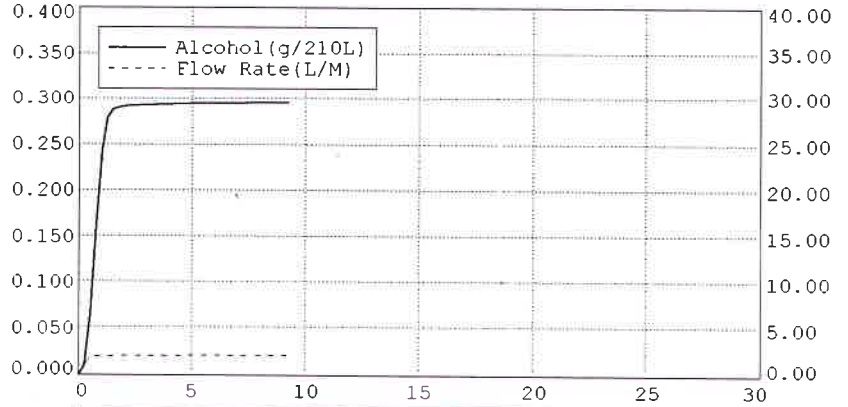
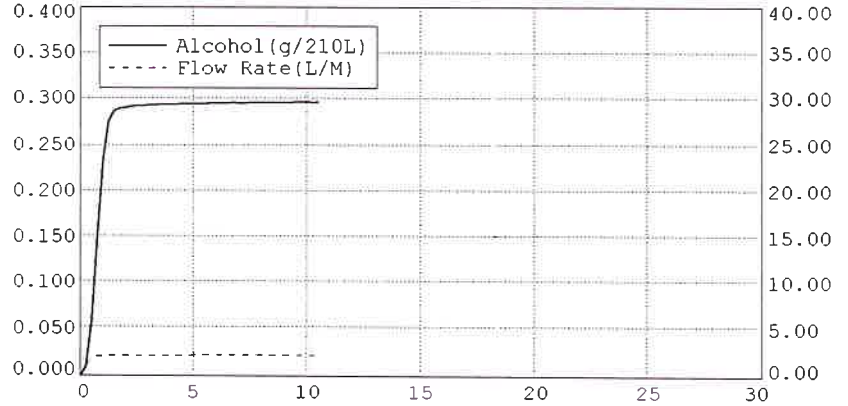
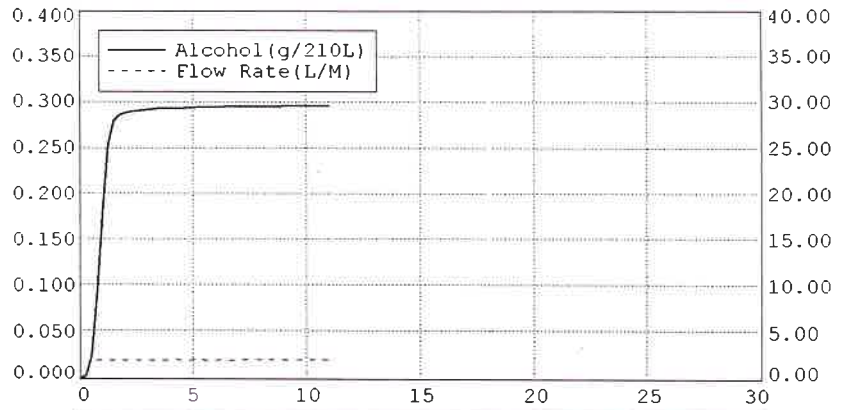
Date: 06/24/2025
 Time: 11:47:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.61: 0.297
 LOT #: AG427706
 EXPIRATION: 10/03/2026
 TANK PRESSURE: 254 psi

BLANK TEST	0.000	11:48
INTERNAL STANDARD	VERIFIED	11:48
EXTERNAL STANDARD	0.297	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.296	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.296	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.297	11:52
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.296	11:53
BLANK TEST	0.000	11:54

Average = 0.2964
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100355

Date: 06/24/2025

Time: 12:01:36

SUBJECT NAME:

TEST TEST

LICENSE #: INCOMPLETE

OPERATOR NAME:

COLLEEN S OBRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 25-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.62: 0.079

LOT #: AG335202

EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK

BLANK TEST

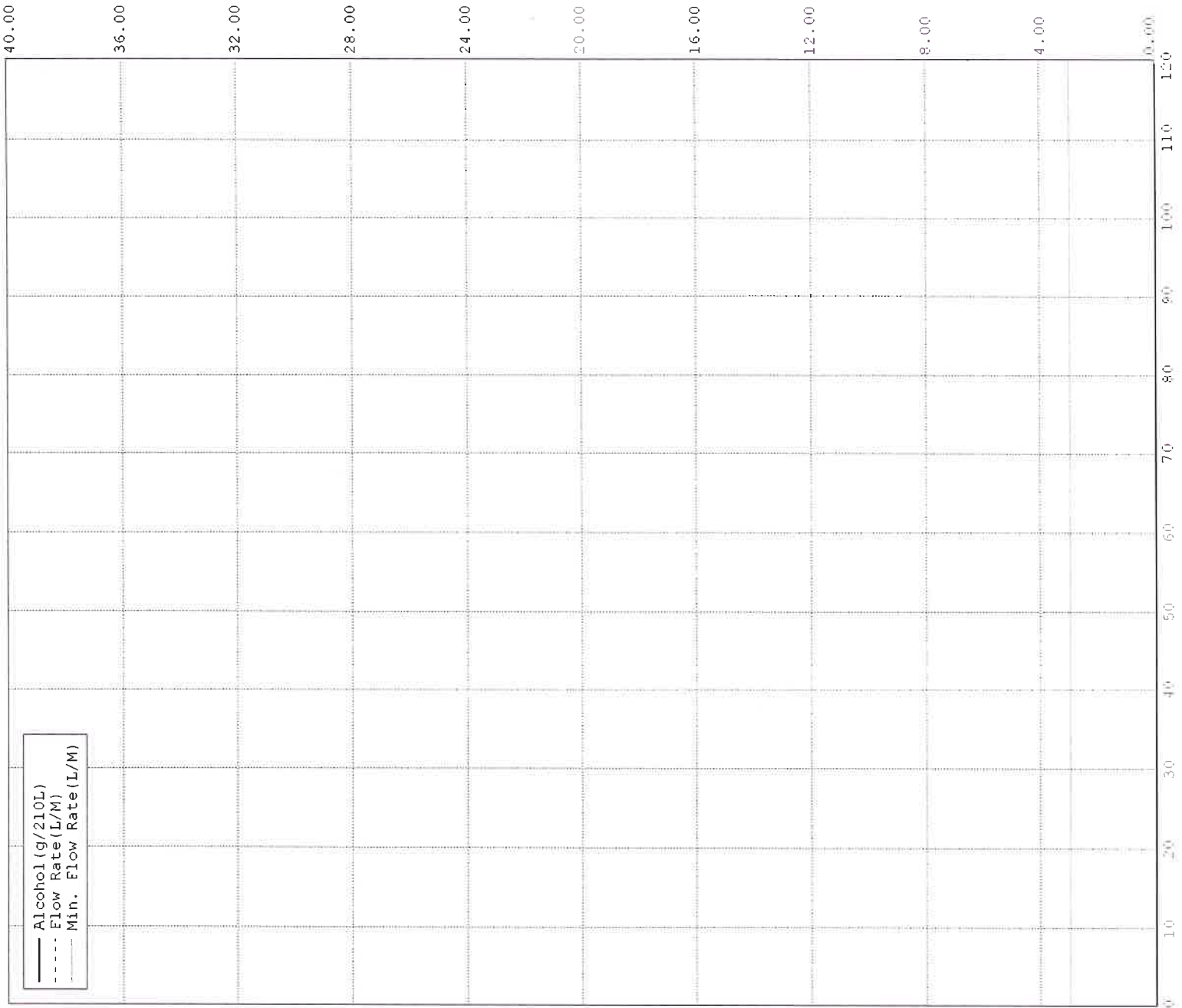
INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 12:02
0.000 12:02
VERIFIED 12:02
0.079 12:03
0.000 12:03
INCOMPLETE 12:06



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 06/24/2025
Time: 12:09:03

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

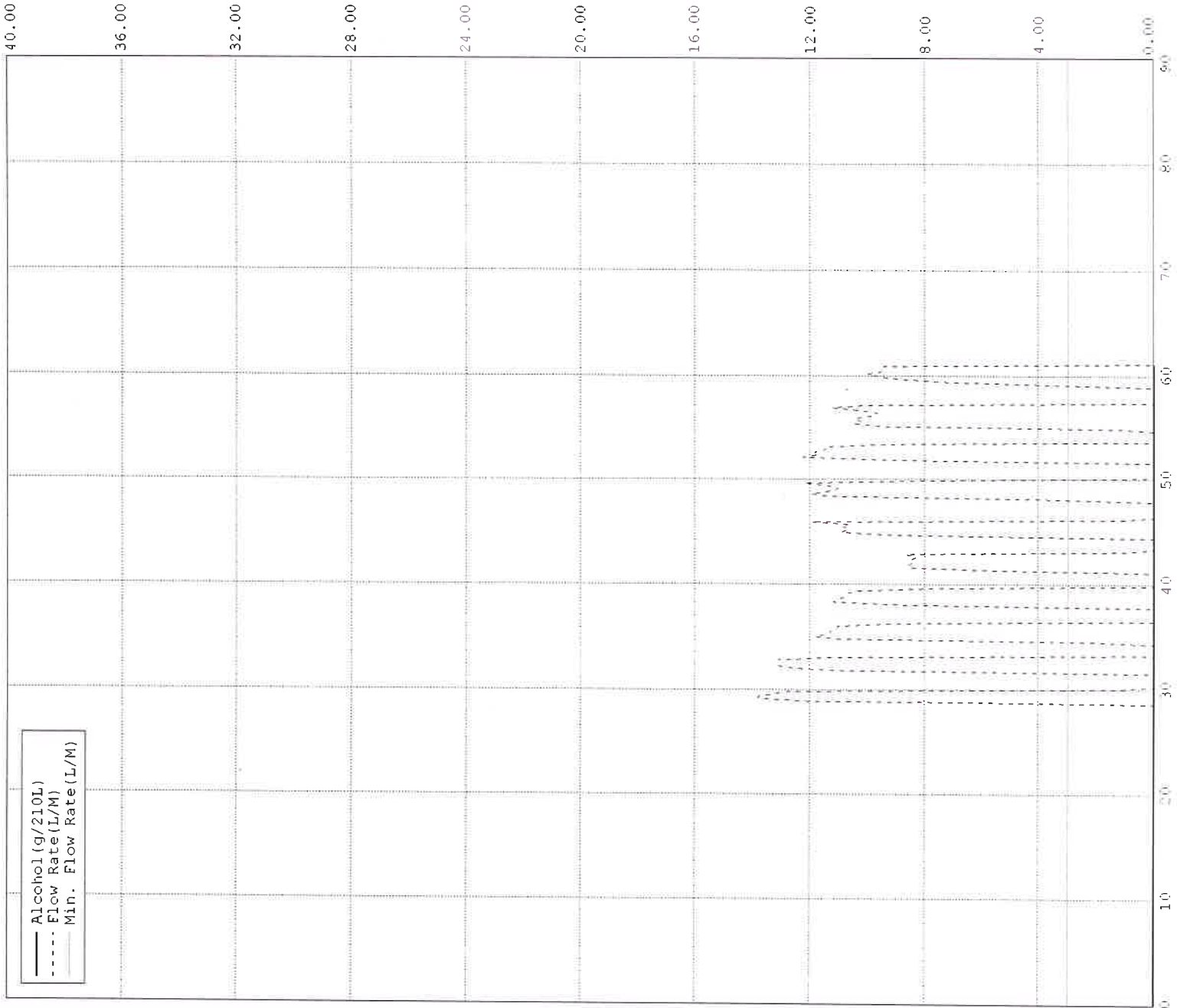
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 25-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK PASSED 12:10
BLANK TEST 0.000 12:10
INTERNAL STANDARD VERIFIED 12:10
EXTERNAL STANDARD 0.079 12:10
BLANK TEST 0.000 12:11
SUBJECT SAMPLE XXX 12:12

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100355

Date: 06/24/2025
Time: 12:14:02

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

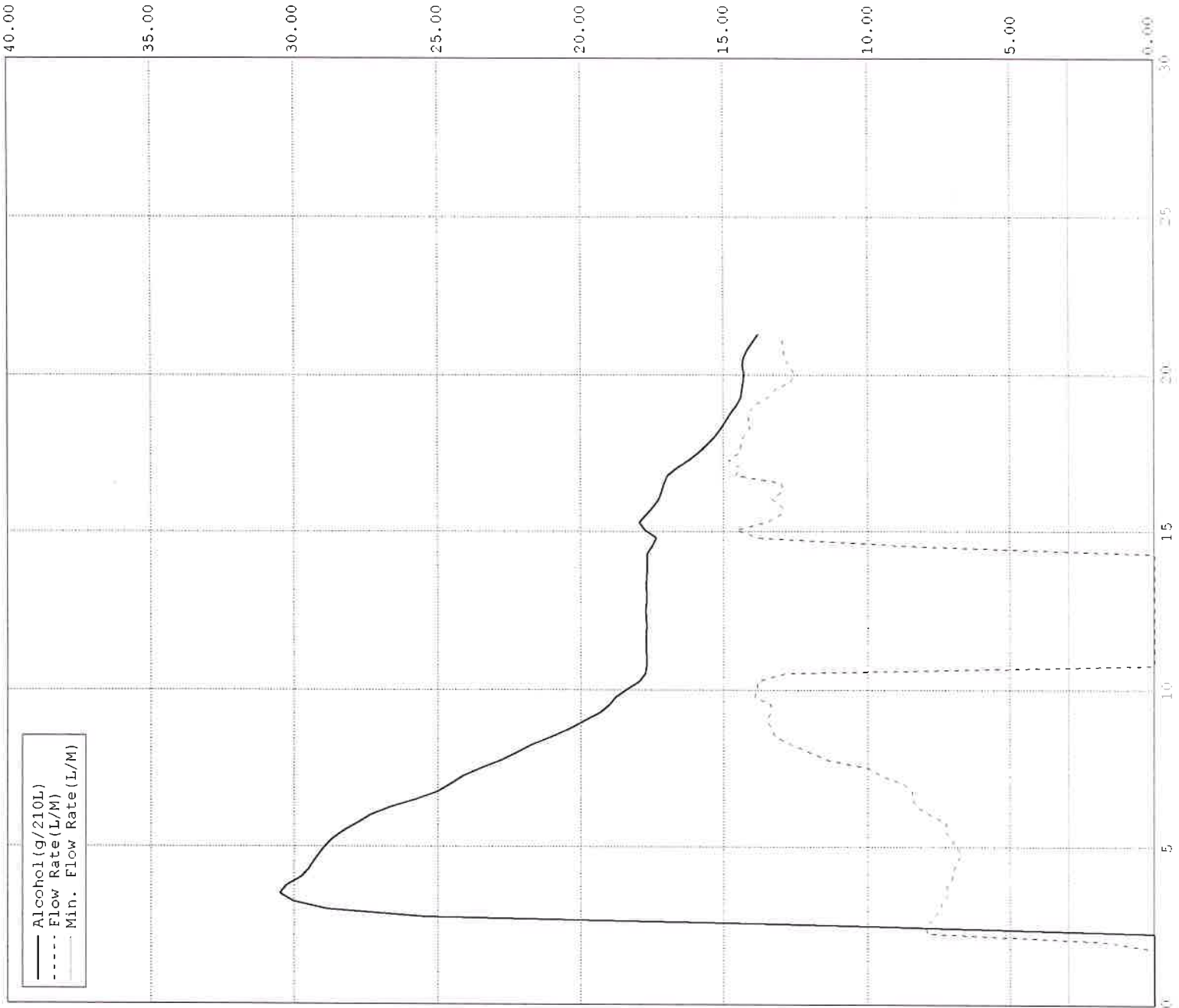
DEPT/AGENCY:
AAA1
CASE/REPORT: 25-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	12:15
BLANK TEST	0.000	12:15
INTERNAL STANDARD	VERIFIED	12:15
EXTERNAL STANDARD	0.079	12:15
BLANK TEST	0.000	12:16
SUBJECT SAMPLE	INVALID	12:16

CSB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 06/24/2025
Time: 12:18:31

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

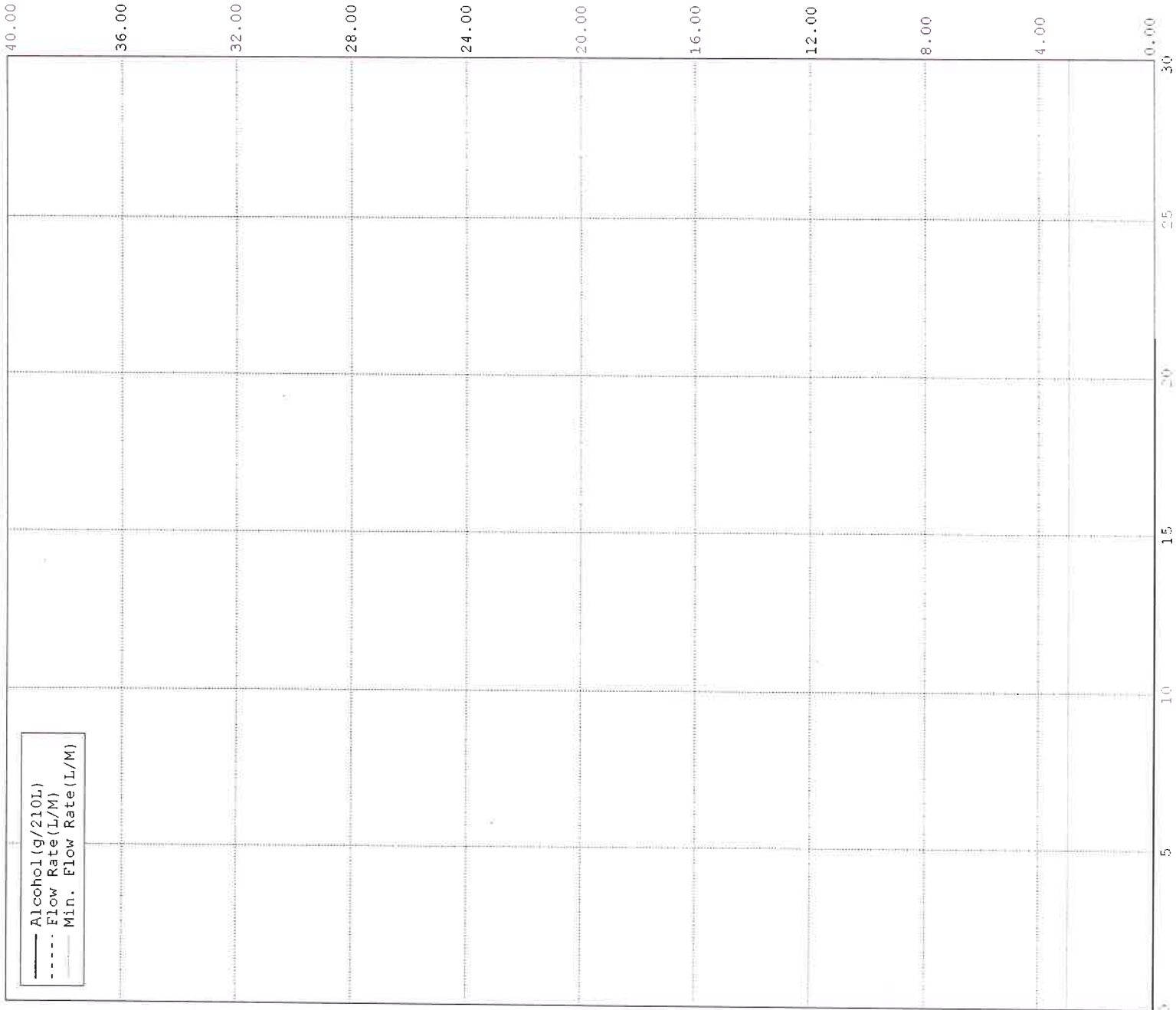
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 25-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK PASSED 12:20
BLANK TEST 0.000 12:20
INTERNAL STANDARD VERIFIED 12:20
EXTERNAL STANDARD 0.079 12:20
BLANK TEST 0.000 12:21

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 06/24/2025
Time: 12:26:54

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 25-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.62: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	12:29
BLANK TEST	0.000	12:29
INTERNAL STANDARD	VERIFIED	12:29
Xq = 0.081 (0.97%)		
EXTERNAL STANDARD	0.079	12:29
X[1] = 0.0785 (0.0021) (0.0031)		
BLANK TEST	0.000	12:30
SUBJECT SAMPLE	XXX	12:31
X[1] = 0.1092 (-0.0194) (0.0029)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 06/24/2025
Time: 12:38:40

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 25-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	12:39
BLANK TEST	0.000	12:39
INTERNAL STANDARD	VERIFIED	12:39
Xq = 0.081 (0.87%)		
EXTERNAL STANDARD	0.078	12:40
X[1] = 0.0783 (0.0018) (0.0047)		
BLANK TEST	0.000	12:41
SUBJECT SAMPLE	XXX	12:41
X[1] = 0.1197 (-0.0237) (0.0047)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 06/24/2025
Time: 12:47:44

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

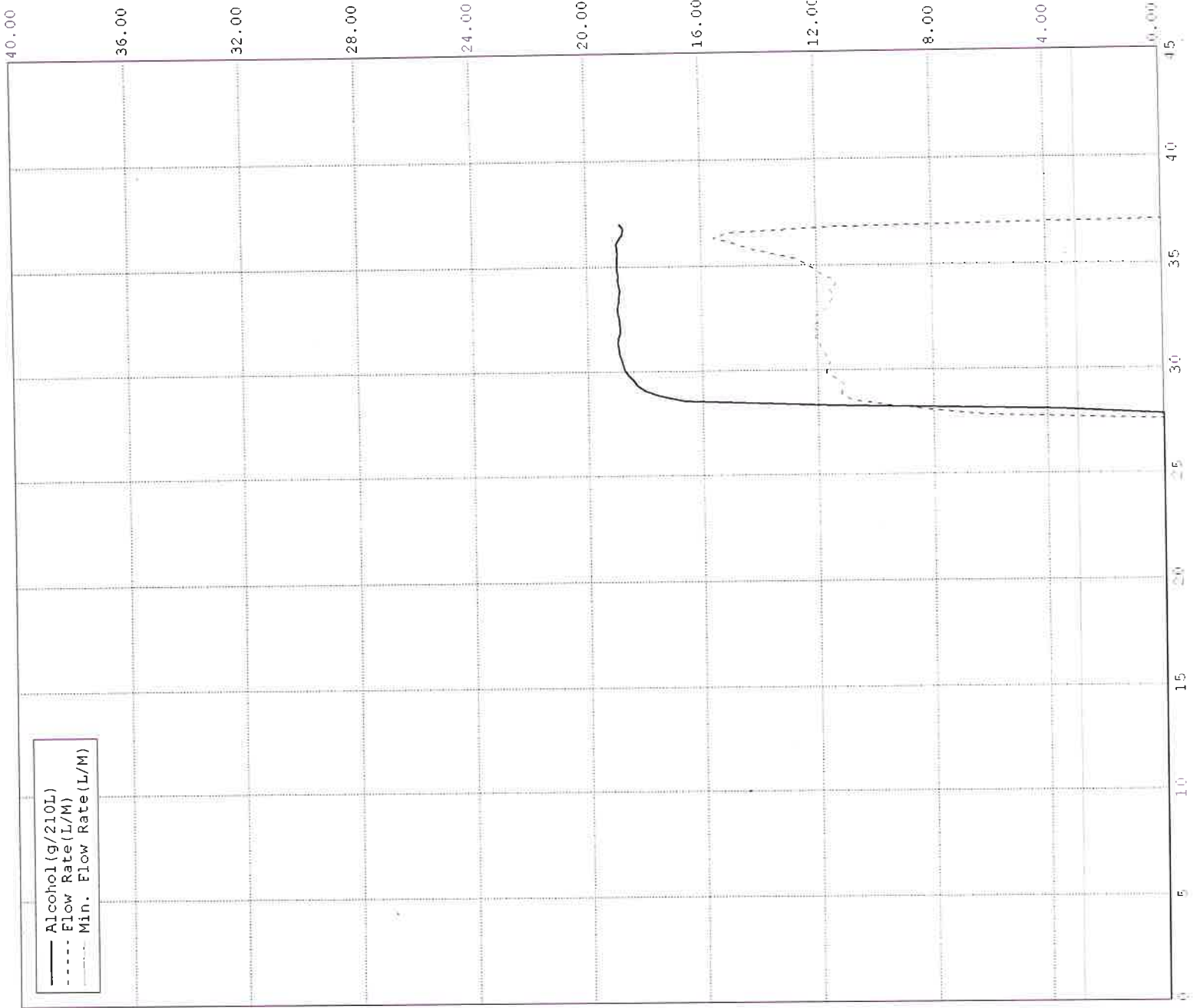
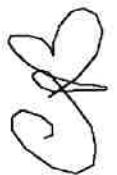
DEPT/AGENCY:
AAA1
CASE/REPORT: 25-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	12:48
BLANK TEST	0.000	12:48
INTERNAL STANDARD	VERIFIED	12:49
Xg = 0.081 (0.76%)	0.078	12:49
X[1] = 0.0784 (0.0021) (0.0041)	0.000	12:50
BLANK TEST	0.000	12:50
SUBJECT SAMPLE (Vol=1.83L)	0.094	12:50
X[1] = 0.0941 (0.0004) (0.0028)	0.000	12:51
BLANK TEST	0.078	12:52
EXTERNAL STANDARD	0.000	12:52
X[1] = 0.0784 (0.0019) (0.0031)	0.000	12:52
BLANK TEST		

Filter 2 Avg = 0.0020

Filter 3 Avg = 0.0038



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100355

Date: 06/24/2025
Time: 13:07:48

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 25-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.61: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	13:09
BLANK TEST	0.000	13:09
INTERNAL STANDARD	VERIFIED	13:09
EXTERNAL STANDARD	0.080	13:09
BLANK TEST	0.000	13:10
SUBJECT SAMPLE (Vol=1.94L)	0.000	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.081	13:12
BLANK TEST	0.000	13:13

