



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: 100684

Report Issue Date: 07/06/2023
Date Received: 2022-12-14
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

Unable to perform As-Found due to ticket db pop-up message.

Start Date 06/13/2023 - As Left - End Date 06/13/2023

As Left Conditions - Barometric Pressure (inHg): 29.92 Barometer Used: Fisher S/N 221250180 Temperature (C): 22.1 Relative Humidity (%): 34

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	AG217902	0.020	0.019	0.020	0.020	0.020	0.020	+/- 0.002
0.040	0.040	AG217904	0.039	0.039	0.040	0.039	0.040	0.039	+/- 0.003
0.080	0.080	09523080A1	0.080	0.079	0.080	0.079	0.079	0.079	+/- 0.004
0.100	0.100	AG211003	0.098	0.099	0.098	0.099	0.099	0.099	+/- 0.004
0.150	0.150	AG134205	0.148	0.148	0.148	0.148	0.148	0.148	+/- 0.005
0.300	0.300	AG217903	0.297	0.297	0.297	0.297	0.297	0.297	+/- 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 Colleen O'Bryant on 06/29/2023

colleen.obryant@alaska.gov

Technically and administratively reviewed by Brandi Barnett on 07/06/2023

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100684 Analyst: C. O. Bryant Start Date: 6/13/23

- Diagnostic Test (attached)
 Internal Standard value \leq 3.00%
- 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
- Adjust volume setting, if needed (1.50 L +/- 0.10 L)
- Print Technician Screen (attached)
- Print Calibration Factors (attached)
- Minimum Volume Test 1.6 L (1.3L to 1.7L)

As Left Conditions:

Barometric Pressure (in Hg): 29.92 Temperature (C): 22.1 Relative Humidity (%): 34

Linearity Test (attached)

0.020g/210L Mnf: Argas Lot: AG217902 Exp: 6/28/24

0.040g/210L Mnf: Argas Lot: AG217904 Exp: 6/28/24

0.080g/210L Mnf: ILMO Lot: 09523080A1 Exp: 5/5/25

0.100g/210L Mnf: Argas Lot: AG211003 Exp: 4/20/24

0.150g/210L Mnf: Argas Lot: AG134205 Exp: 12/8/23

0.300g/210L Mnf: Argas Lot: AG217903 Exp: 6/28/24

Functional Tests (attached)

- Incomplete
 Invalid
- Maximum Attempts Exceeded
 Radio Frequency Interference (RFI)
- Interference (Volatiles)
- Acetone Mnf: Argas Lot: 22HP41201 Level: 0.100 Exp: 8/24/24
- Simulator S/N: DR4176 Verification Performed?
- Isopropanol Mnf: Life/OC Lot: 22HP41201 Level: 0.100 Exp: 8/24/24
- Simulator S/N: DR4177 Verification Performed?
- Neg. Control Mnf: Life/OC Lot: 21KP41172 Level: 0.100 Exp: 11/9/23
- Simulator S/N: DR6267 Verification Performed?

Calibrated External Thermometer:

Thermometer S/N: 210958384 Calibration Due Date: 11/9/23

- Verify stylus is calibrated
 Non-Drinking Subject Test
- Reset Options
 Upload
- Clear Memory
 Remove Tank Prior to Shutdown
- Verification of Calibration (VOC)
 Calibration End Date: 6/13/23

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 06/13/2023
Time: 10:10:40

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 43.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.82 V PASSED
(1.11 V - 2.59 V)
Cooler Voltage = 1.63 V PASSED
(0.98 V - 2.28 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 527 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.0 in

PUMP INFO

Flow Rate = 4.049 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
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.093 0.28% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100684

Date: 06/13/2023
Time: 10:19 AM

Temperatures (°C)

Sample Cell: 49.0°C
Breath Tube: 43.2°C

Current Barometer 29.9 in
Volume (Ltr) 1.50

Settings

Lamp: 1.88 V
Bias: 80 V
Cooler: 1.58 V
Chopper: 527 Hz

Voltages (V)

Flow: 1.03 V
Detector: 0.007 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 10/04/2019
Time: 12:49:11

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca = 0.1000
CAL = 0.986837 0.800 <= CAL < 1.200
b1 = 0.0009 0.0000 <= b1 < 0.0040
b2 = 0.0048 0.0010 <= b2 < 0.0100
b3 = 0.0009 0.0000 <= b3 < 0.0040
Xq = 0.0929 0.0500 <= Xq < 0.2000
a21 = 1.174117 1.050 <= a21 < 1.300
a31 = 0.531210 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100684

Date: 06/13/2023
Time: 10:20:28

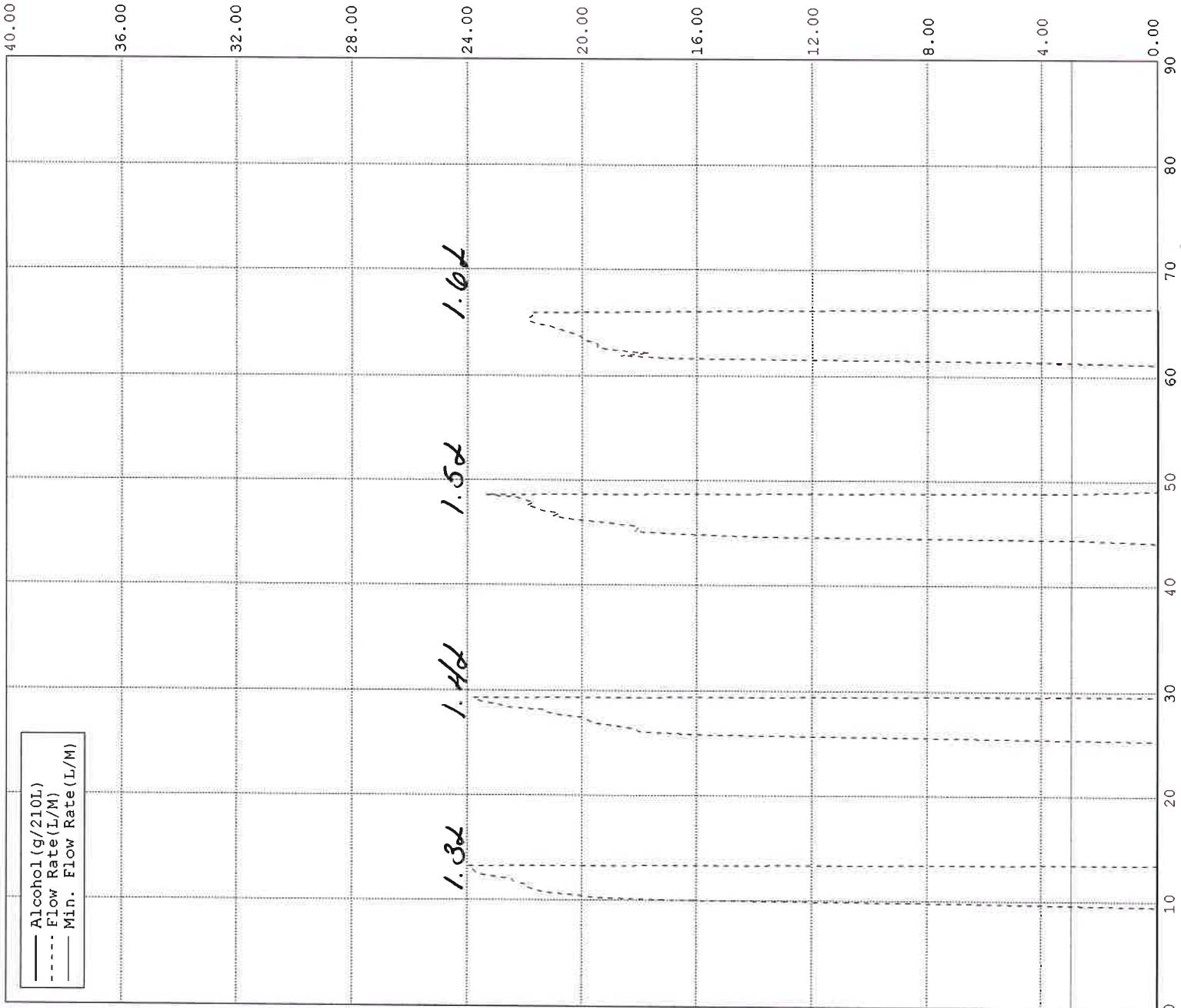
SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 23-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	10:22
BLANK TEST	0.000	10:22
INTERNAL STANDARD	VERIFIED	10:23
EXTERNAL STANDARD	0.080	10:23
BLANK TEST	0.000	10:24
SUBJECT SAMPLE (Vol=1.58L)	0.000	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.079	10:26
BLANK TEST	0.000	10:27



LINEARITY CHECK

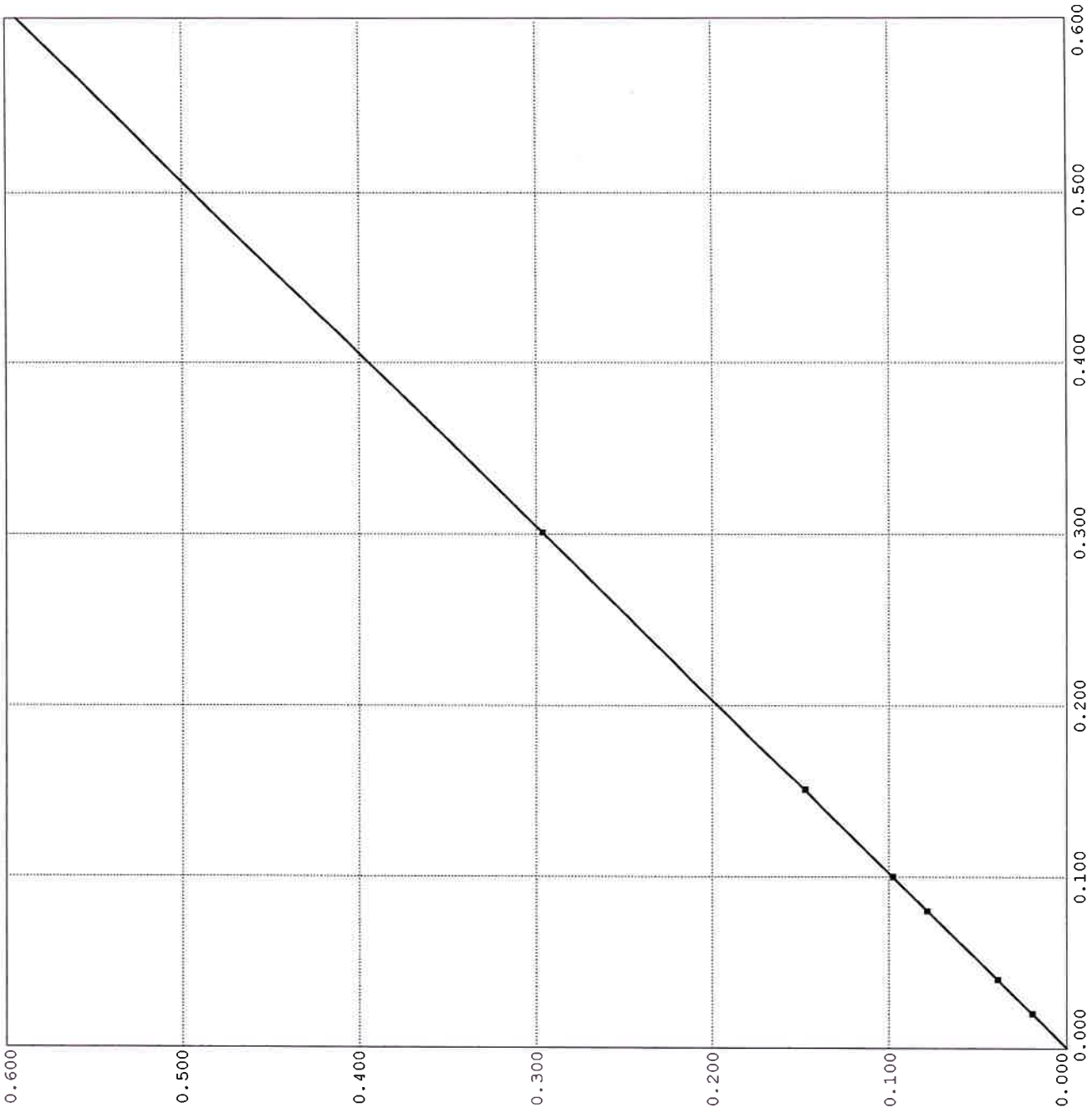
 Alaska Department of Public Safety
 DATAMASTER dmt: 100684

Date: 06/13/2023
 Time: 10:30:49

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.040	0.0394	0.0005
0.080	0.0794	0.0005
0.100	0.0986	0.0005
0.150	0.1480	0.0000
0.300	0.2970	0.0000

SLOPE = 0.989932
 R² = 0.999993



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

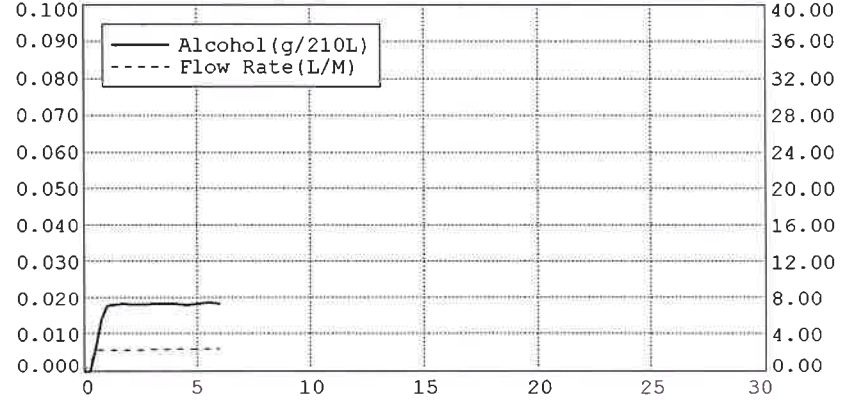
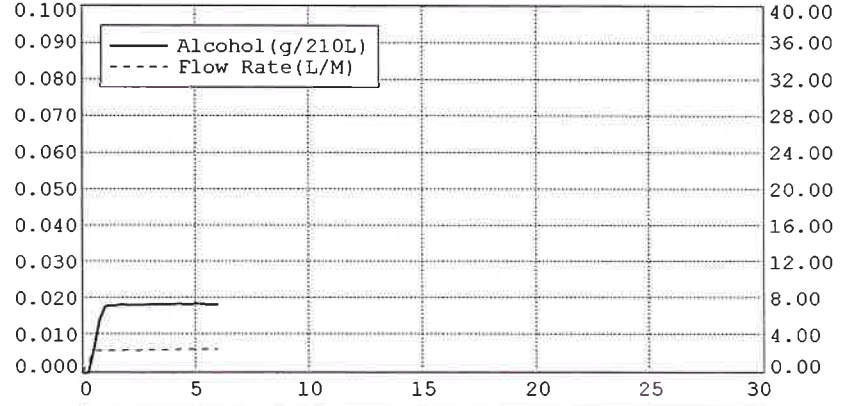
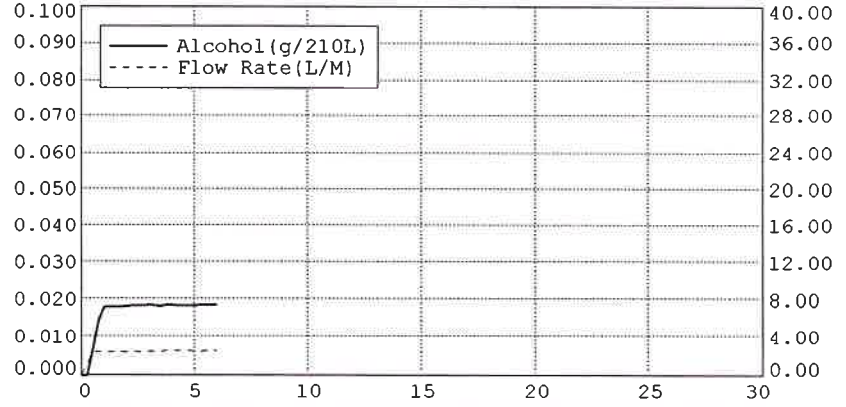
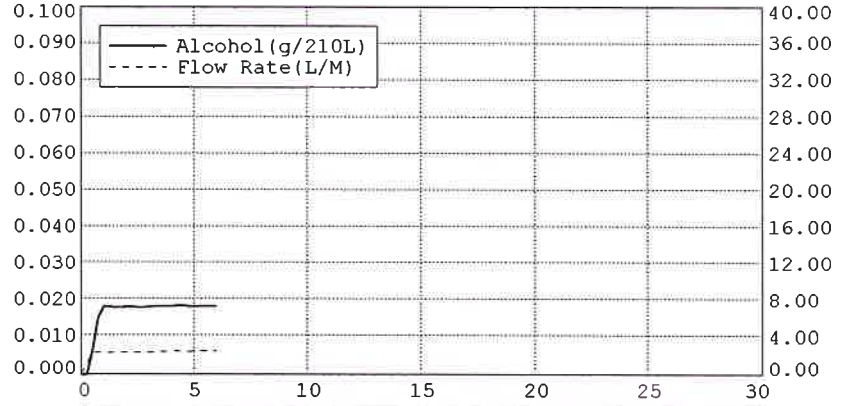
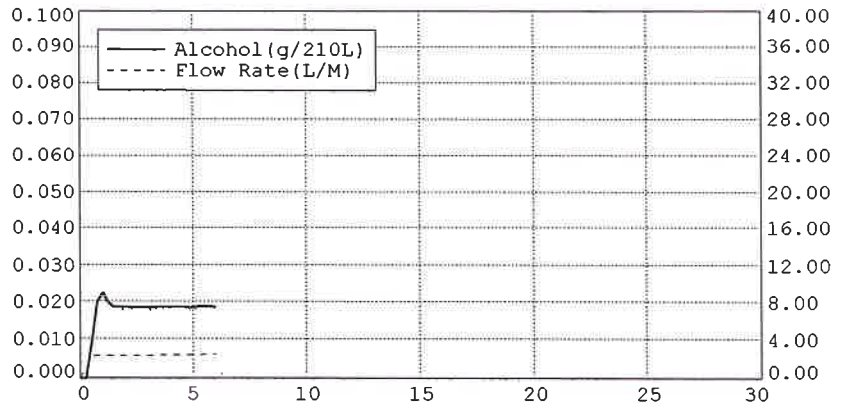
Date: 06/13/2023
 Time: 10:30:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.93: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 700 psi

BLANK TEST	0.000	10:37
INTERNAL STANDARD	VERIFIED	10:37
EXTERNAL STANDARD	0.020	10:37
BLANK TEST	0.000	10:38
EXTERNAL STANDARD	0.019	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.020	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.020	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.020	10:42
BLANK TEST	0.000	10:42

Average = 0.0198
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

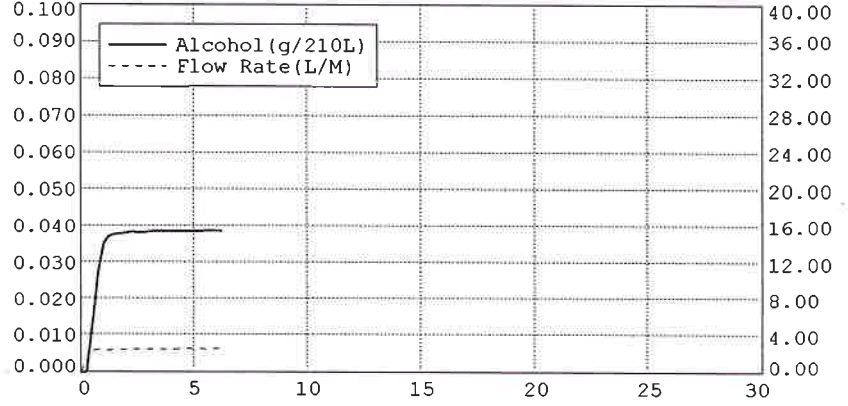
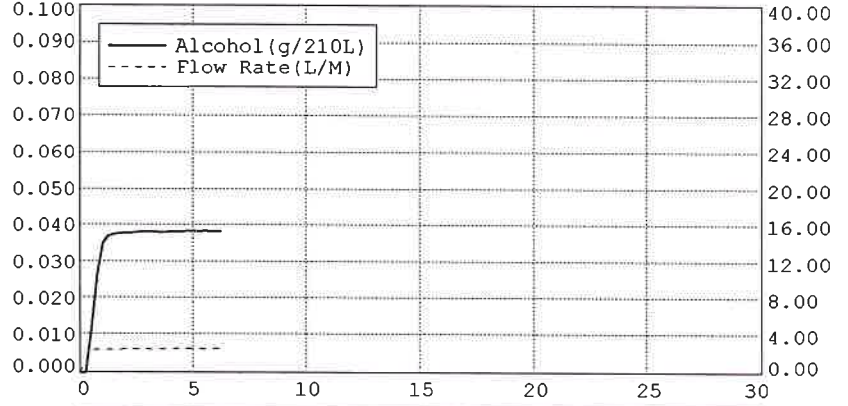
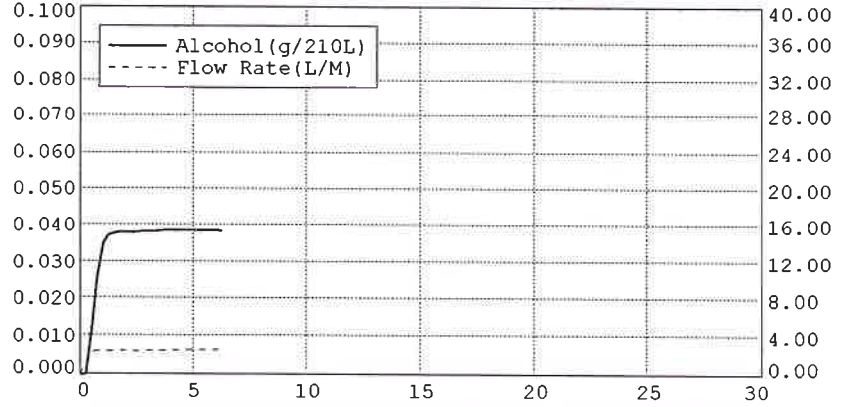
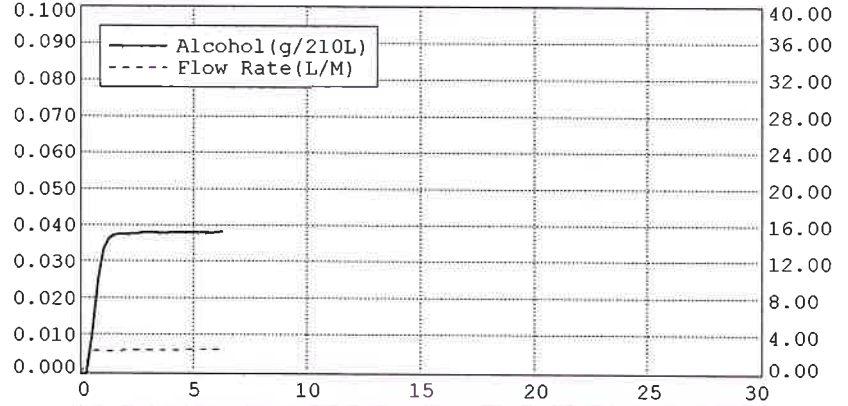
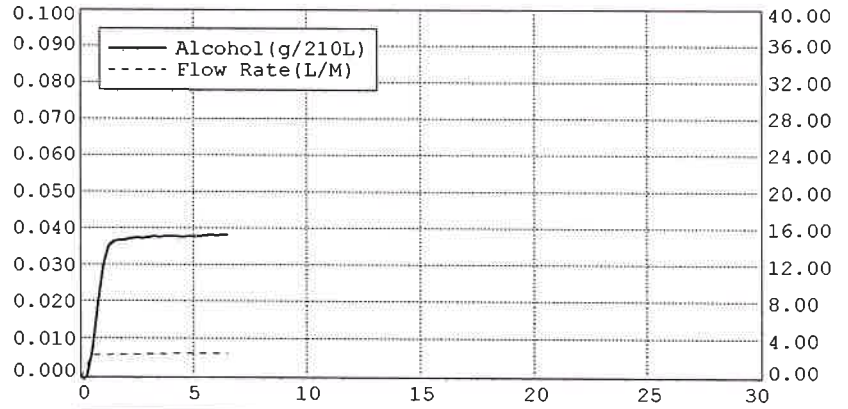
Date: 06/13/2023
 Time: 10:44:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.93: 0.040
 LOT #: AG217904
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 880 psi

BLANK TEST	0.000	10:45
INTERNAL STANDARD	VERIFIED	10:45
EXTERNAL STANDARD	0.039	10:45
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.039	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.040	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.039	10:48
BLANK TEST	0.000	10:49
EXTERNAL STANDARD	0.040	10:50
BLANK TEST	0.000	10:50

Average = 0.0394
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

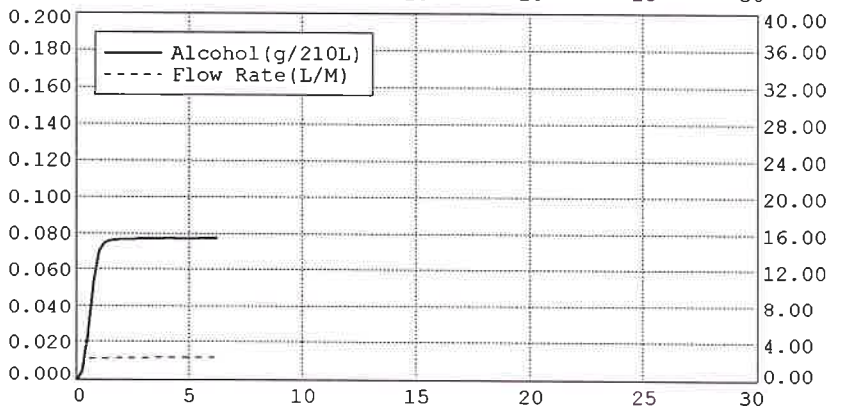
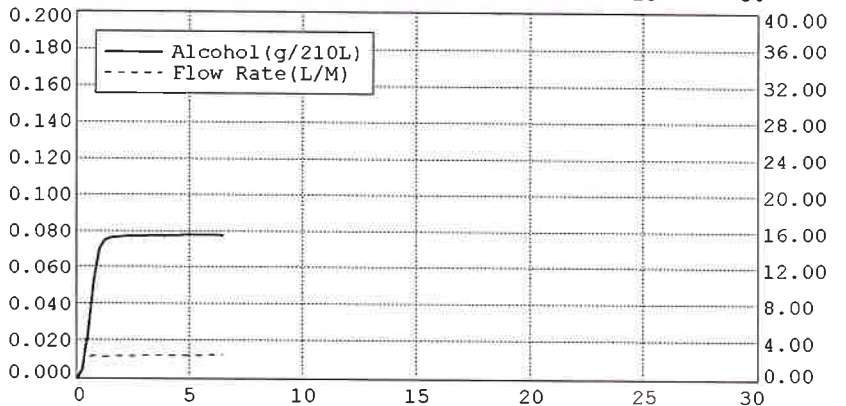
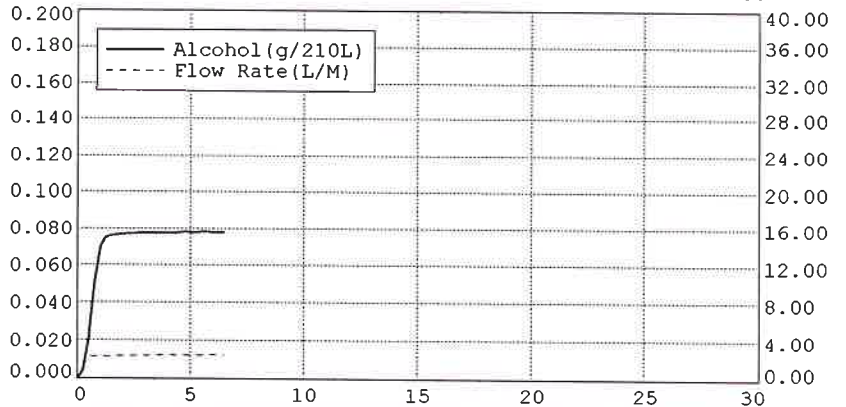
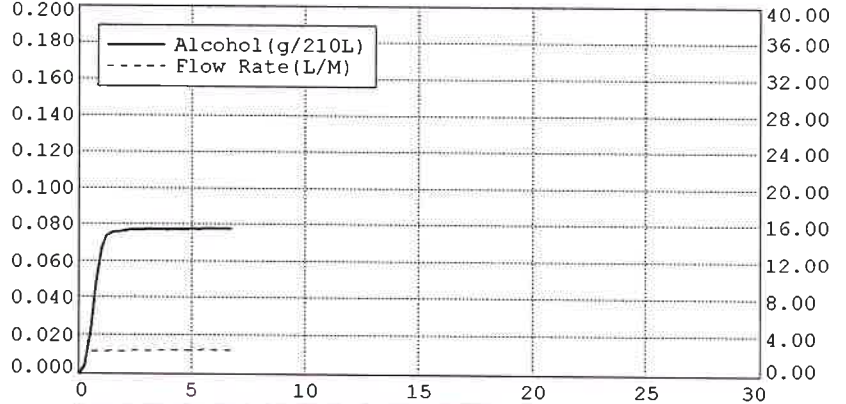
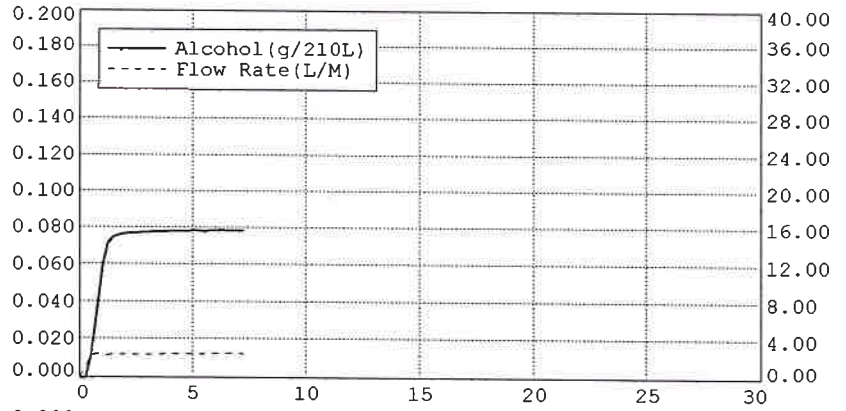
Date: 06/13/2023
 Time: 10:52:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.93: 0.080
 LOT #: 09523080A1
 EXPIRATION: 05/05/2025
 TANK PRESSURE: 825 psi

BLANK TEST	0.000	10:53
INTERNAL STANDARD	VERIFIED	10:53
EXTERNAL STANDARD	0.080	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.079	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.080	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.079	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.079	10:57
BLANK TEST	0.000	10:58

Average = 0.0794
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

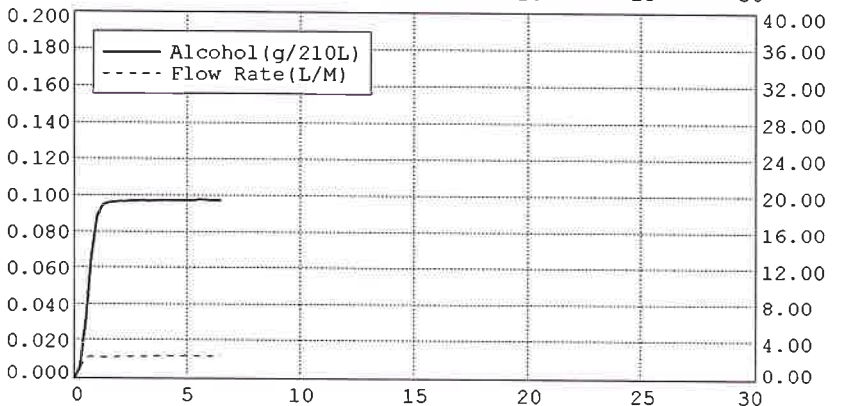
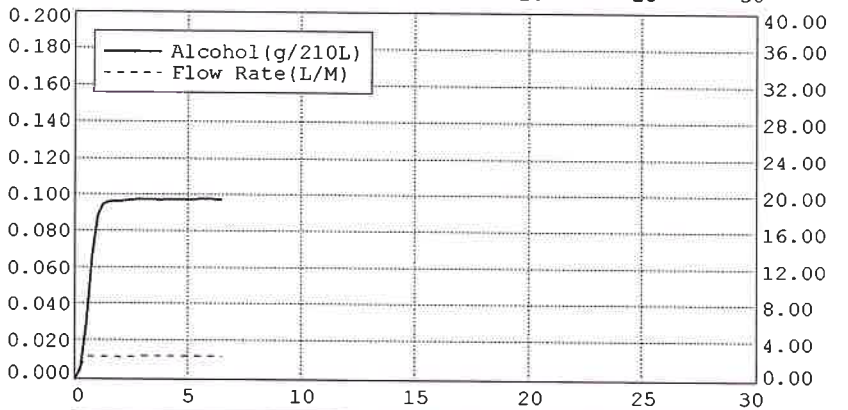
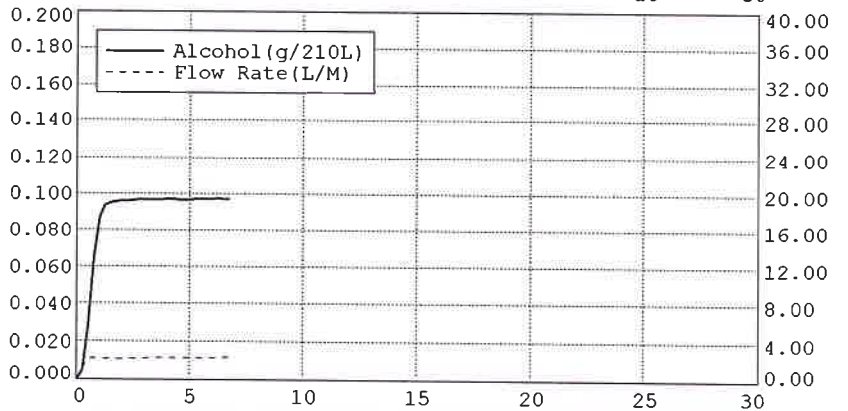
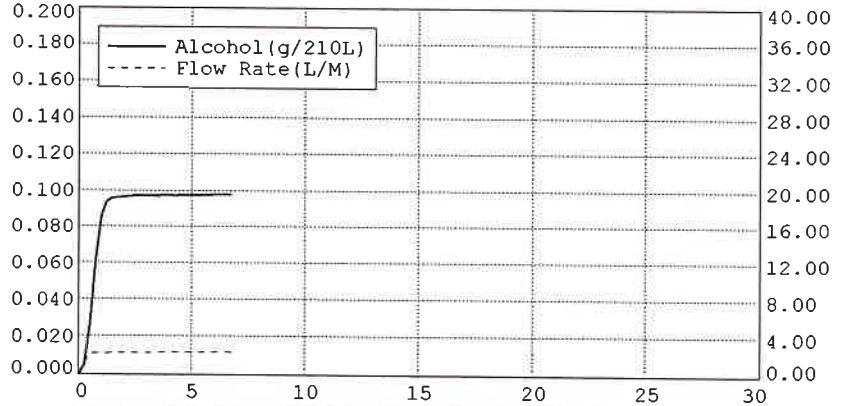
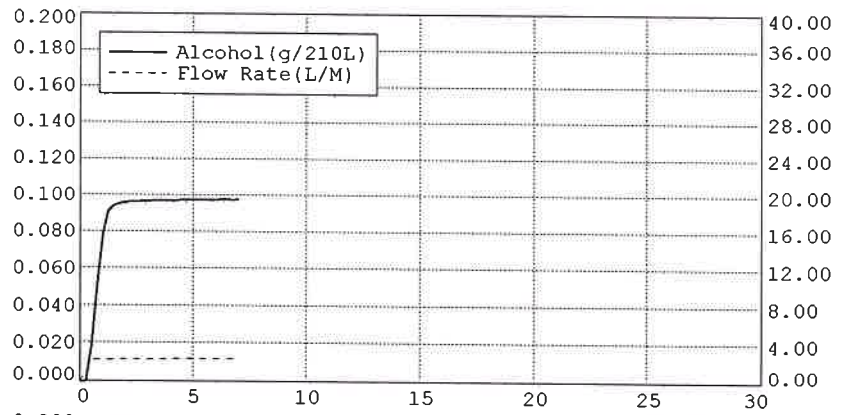
Date: 06/13/2023
 Time: 11:00:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.92: 0.100
 LOT #: AG211003
 EXPIRATION: 04/20/2024
 TANK PRESSURE: 638 psi

BLANK TEST	0.000	11:01
INTERNAL STANDARD	VERIFIED	11:01
EXTERNAL STANDARD	0.098	11:02
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.099	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.098	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.099	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.099	11:06
BLANK TEST	0.000	11:07

Average = 0.0986
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

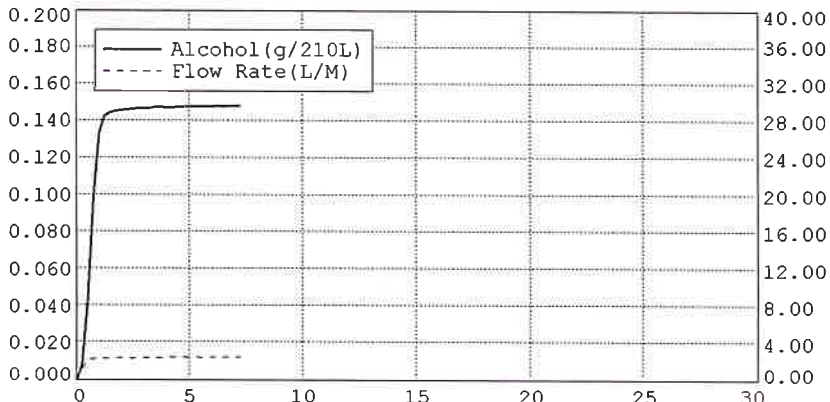
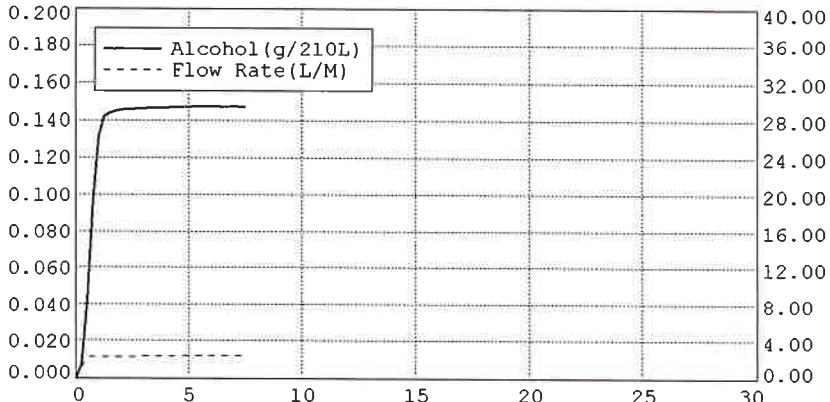
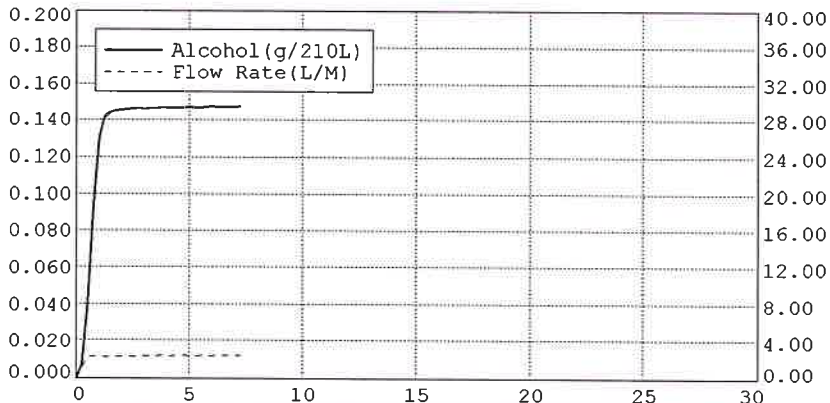
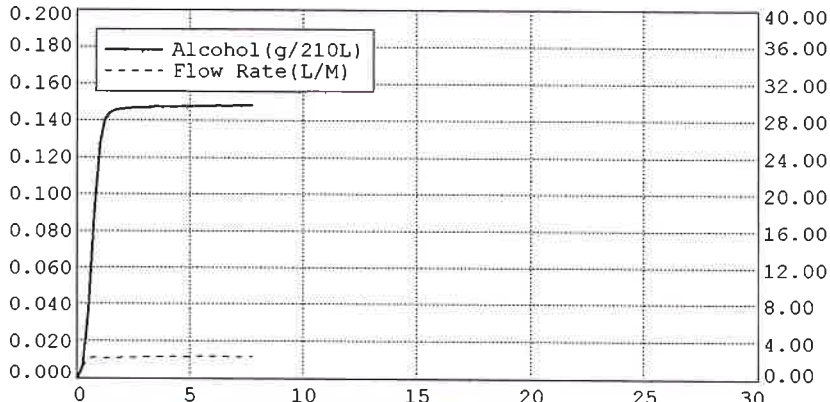
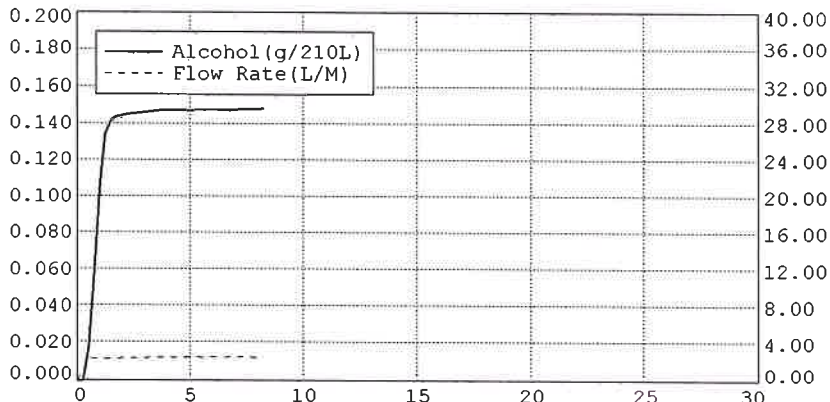
Date: 06/13/2023
 Time: 11:39:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.150
 TARGET AT 29.93: 0.150
 LOT #: AG134205
 EXPIRATION: 12/08/2023
 TANK PRESSURE: 776 psi

BLANK TEST	0.000	11:41
INTERNAL STANDARD	VERIFIED	11:41
EXTERNAL STANDARD	0.148	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.148	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.148	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.148	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.148	11:46
BLANK TEST	0.000	11:46

Average = 0.1480
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

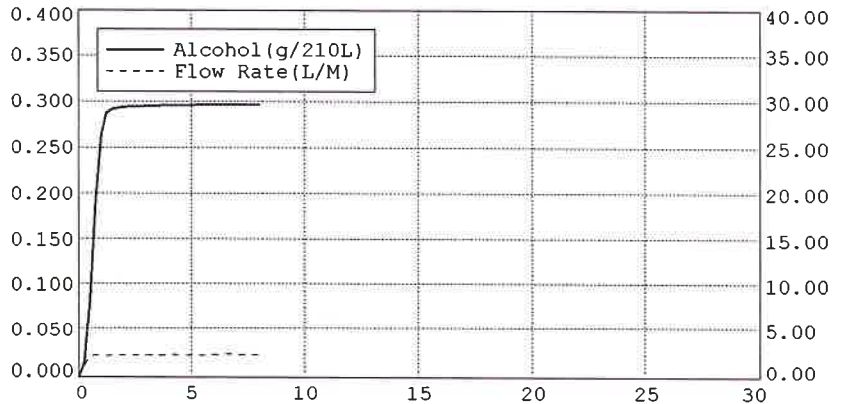
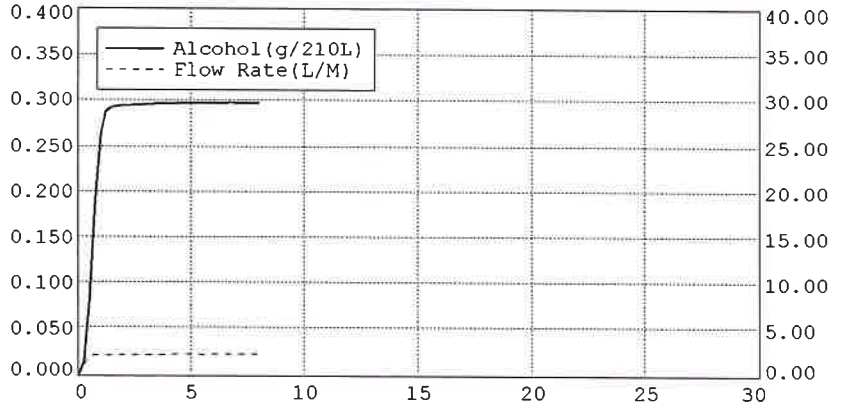
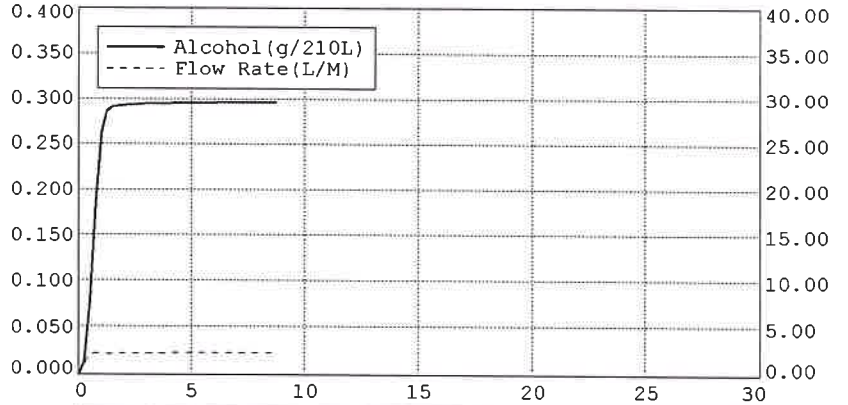
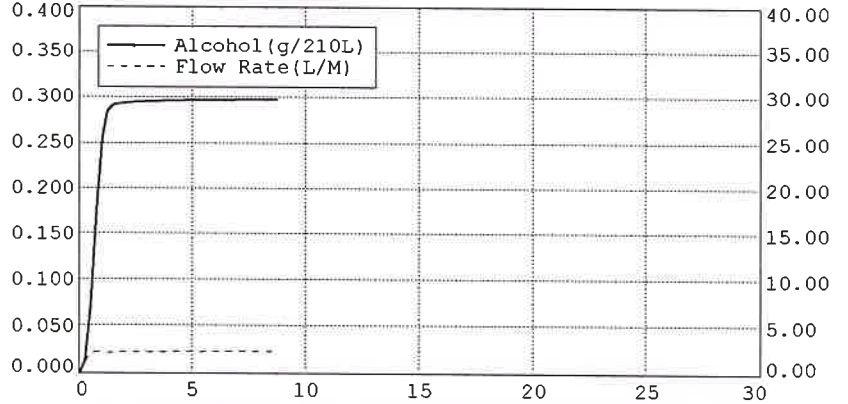
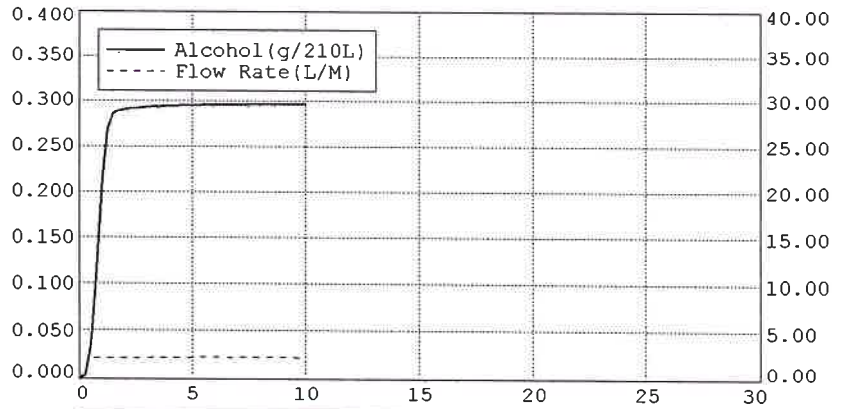
Date: 06/13/2023
 Time: 11:48:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.93: 0.300
 LOT #: AG217903
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 333 psi

BLANK TEST	0.000	11:49
INTERNAL STANDARD	VERIFIED	11:49
EXTERNAL STANDARD	0.297	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.297	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.297	11:52
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.297	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.297	11:54
BLANK TEST	0.000	11:55

Average = 0.2970
 Std Dev = 0.0000



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 06/13/2023
Time: 11:58:41

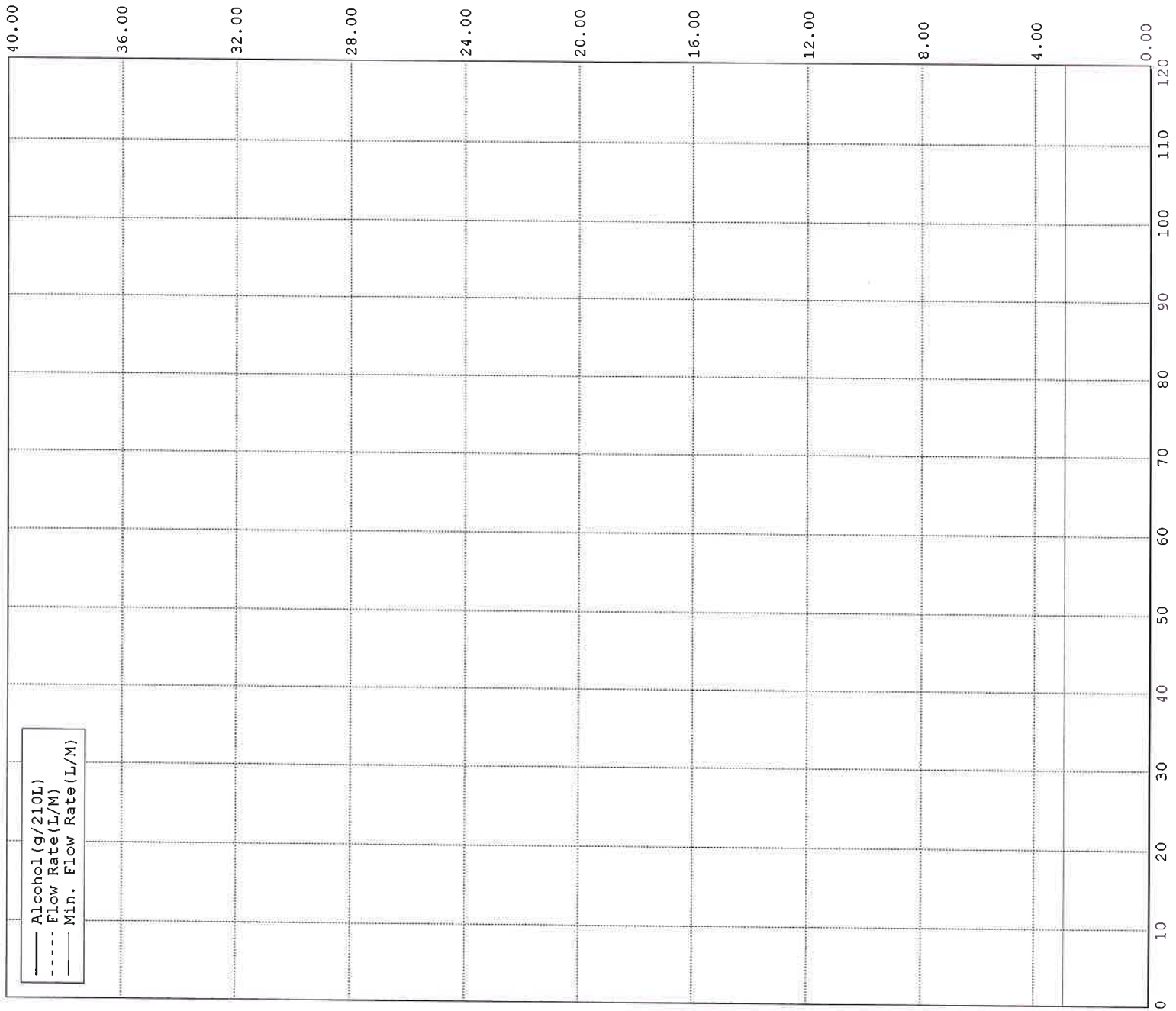
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 23-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK PASSED 11:59
BLANK TEST 0.000 11:59
INTERNAL STANDARD VERIFIED 11:59
EXTERNAL STANDARD 0.080 12:00
BLANK TEST 0.000 12:01
SUBJECT SAMPLE INCOMPLETE 12:03



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 06/13/2023
Time: 12:35:52

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

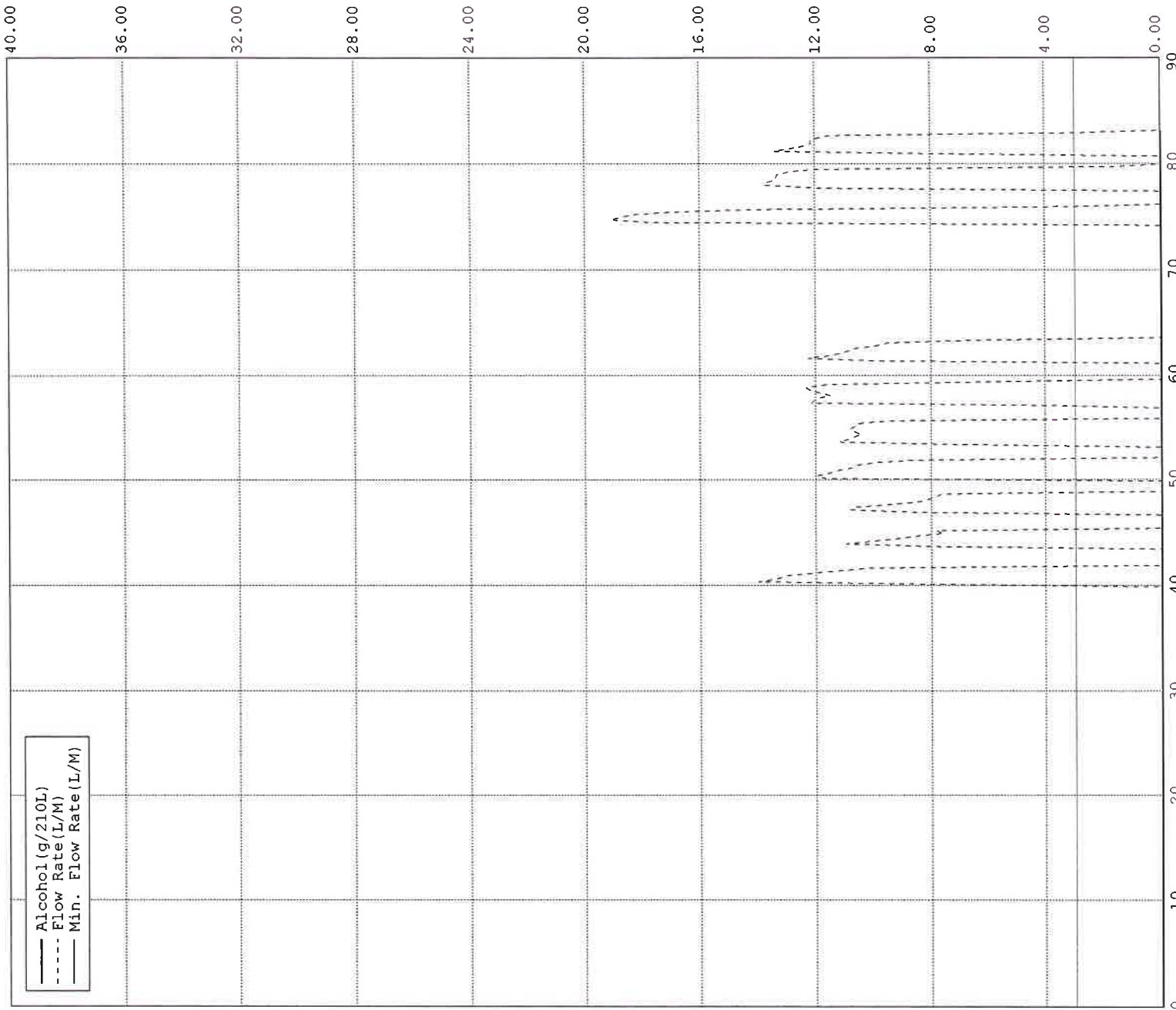
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 23-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK PASSED 12:37
BLANK TEST 0.000 12:37
INTERNAL STANDARD VERIFIED 12:37
EXTERNAL STANDARD 0.080 12:37
BLANK TEST 0.000 12:38
SUBJECT SAMPLE XXX 12:39

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 06/13/2023
Time: 12:47:42

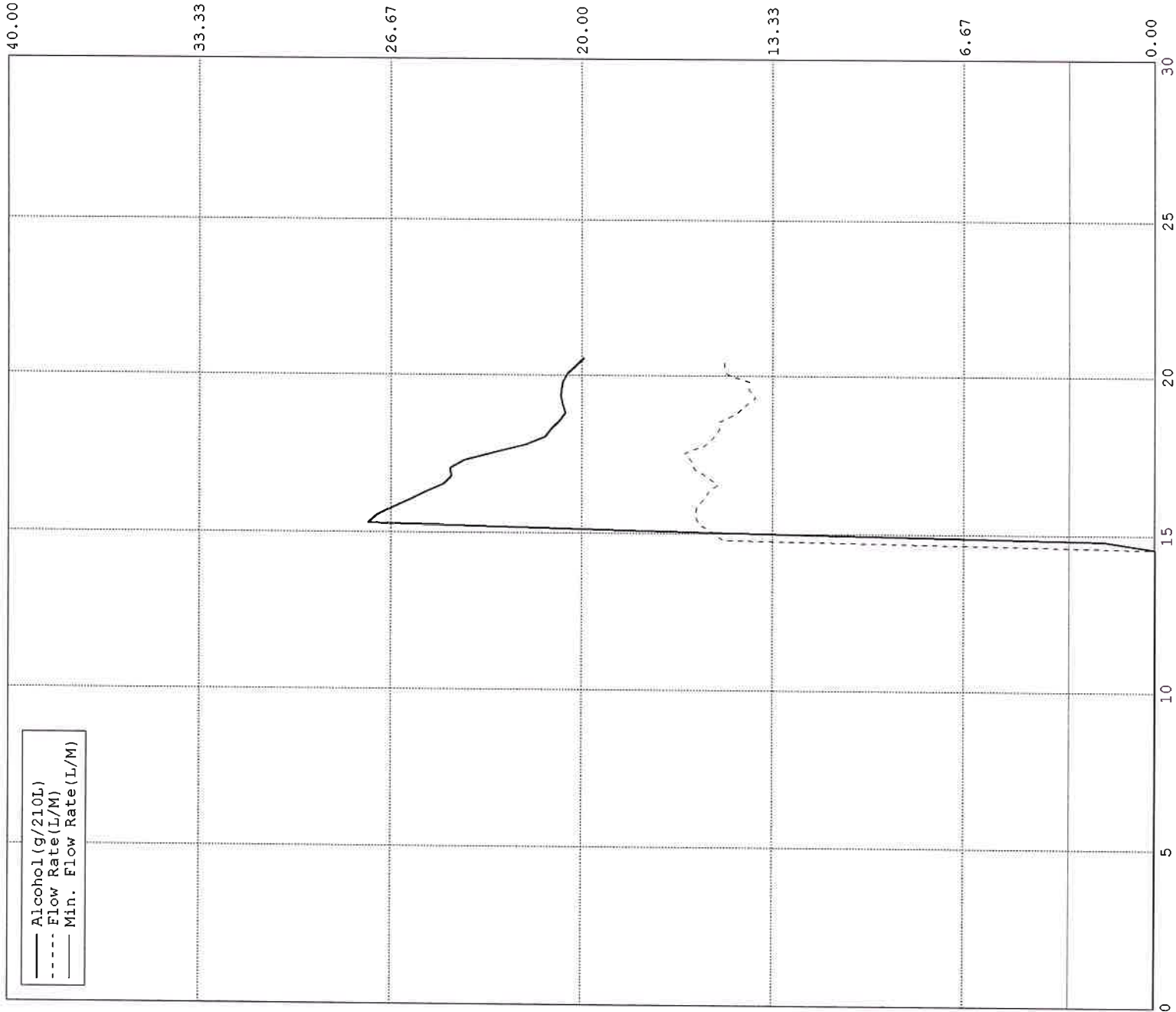
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 23-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK
BLANK TEST PASSED 12:48
INTERNAL STANDARD VERIFIED 12:48
EXTERNAL STANDARD 0.080 12:49
BLANK TEST 0.000 12:50
SUBJECT SAMPLE INVALID 12:50



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 06/13/2023
Time: 12:42:34

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

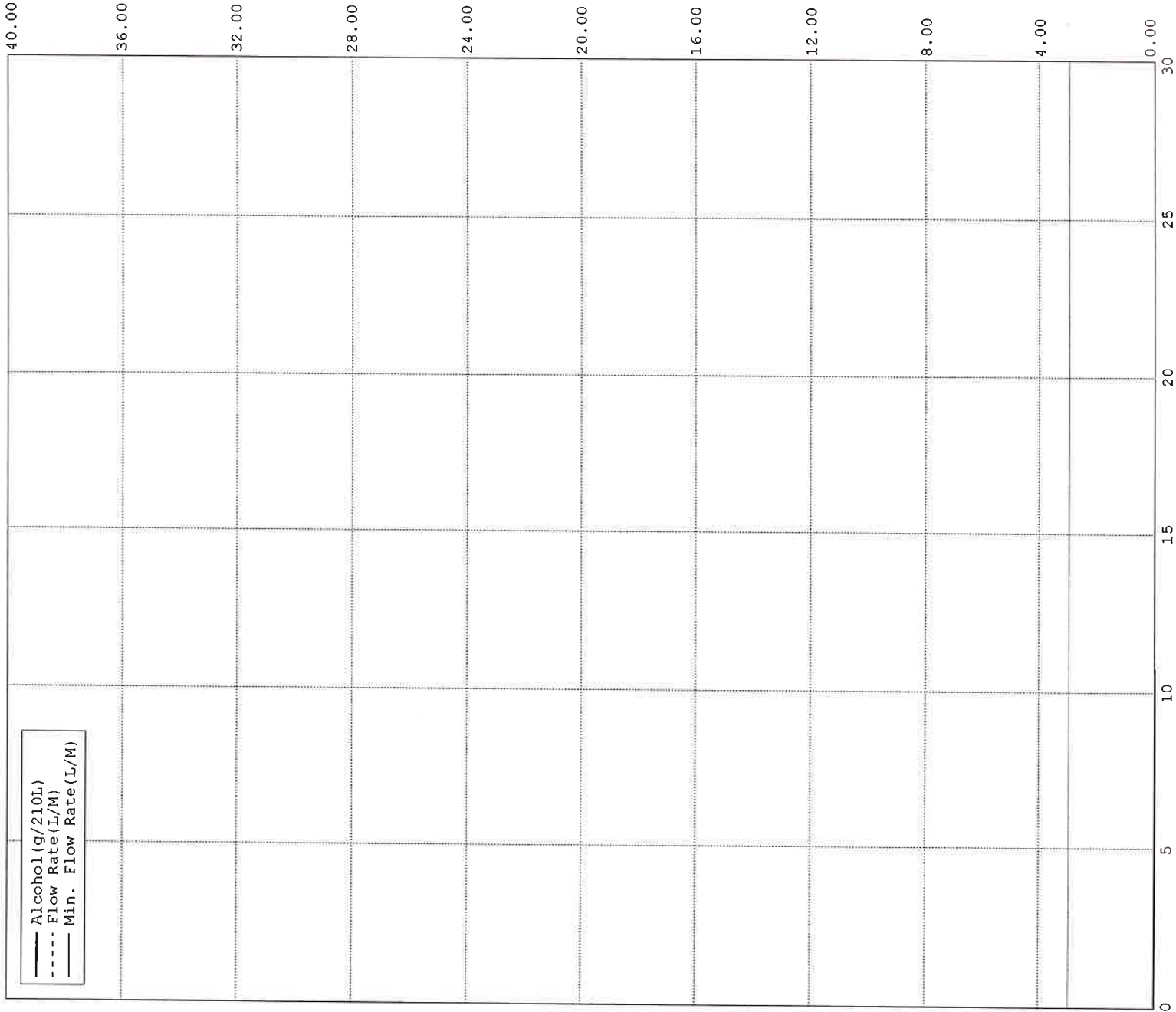
OPERATOR NAME:
COLLEEN S OBRyant
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 23-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK
BLANK TEST PASSED 12:43
INTERNAL STANDARD VERIFIED 12:43
EXTERNAL STANDARD 0.079 12:44
BLANK TEST 0.000 12:44

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 06/13/2023
Time: 14:22:21

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

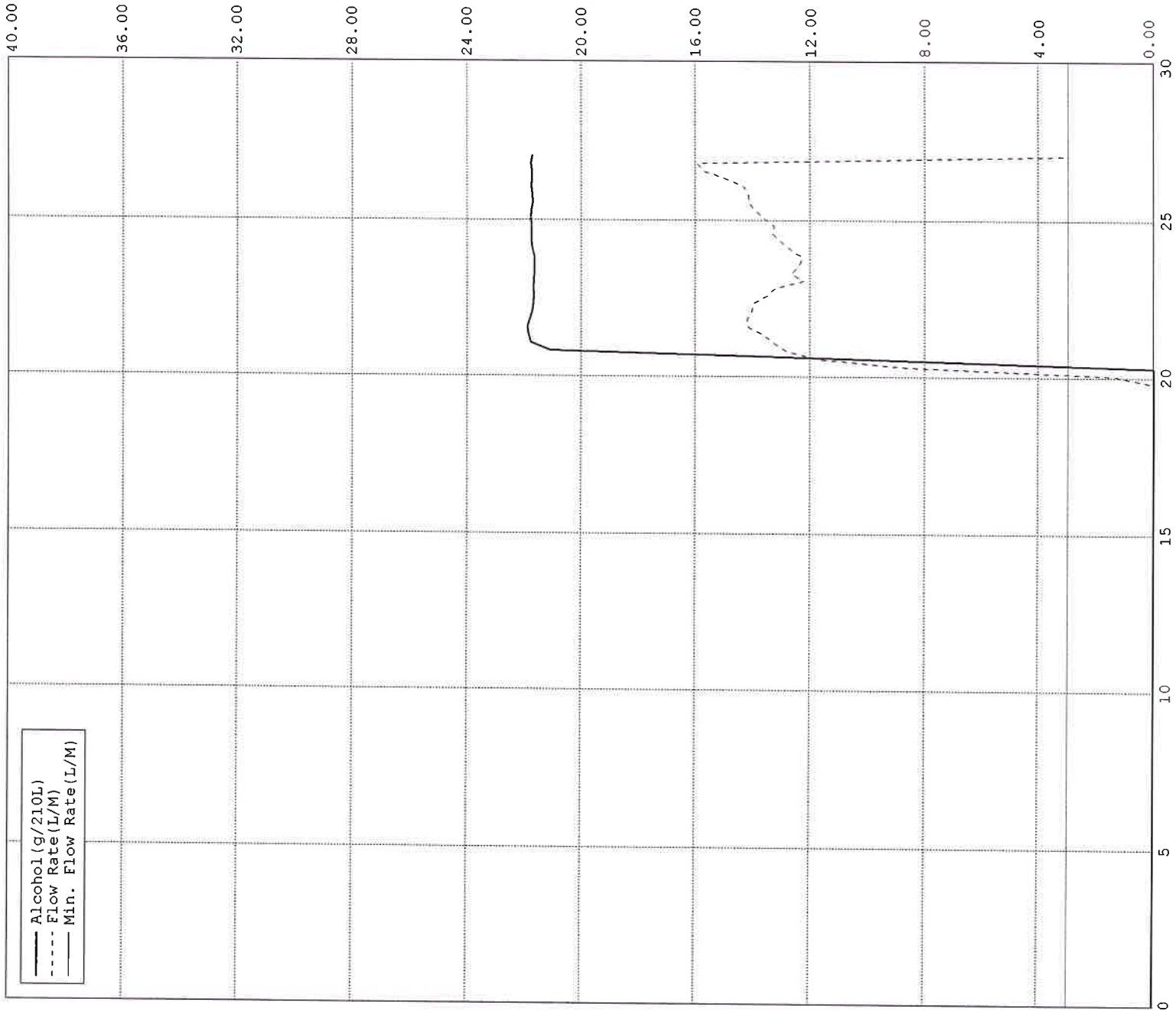
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 23-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK PASSED 14:25
BLANK TEST 0.000 14:25
INTERNAL STANDARD VERIFIED 14:25
Xq = 0.093 (0.09%)
EXTERNAL STANDARD 0.080 14:25
X[1] = 0.0801 (0.0006) (0.0019)
BLANK TEST 0.000 14:26
SUBJECT SAMPLE XXX 14:27
X[1] = 0.1087 (-0.0209) (0.0005)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 06/13/2023
Time: 14:42:51

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 23-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK PASSED 14:46
BLANK TEST 0.000 14:46
INTERNAL STANDARD VERIFIED 14:46
Xq = 0.093 (0.28%)
EXTERNAL STANDARD 0.079 14:47
X[1] = 0.0791 (-0.0002) (0.0011)
BLANK TEST 0.000 14:47
SUBJECT SAMPLE XXX 14:48
X[1] = 0.1236 (-0.0320) (0.0008)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 06/13/2023
Time: 14:54:09

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

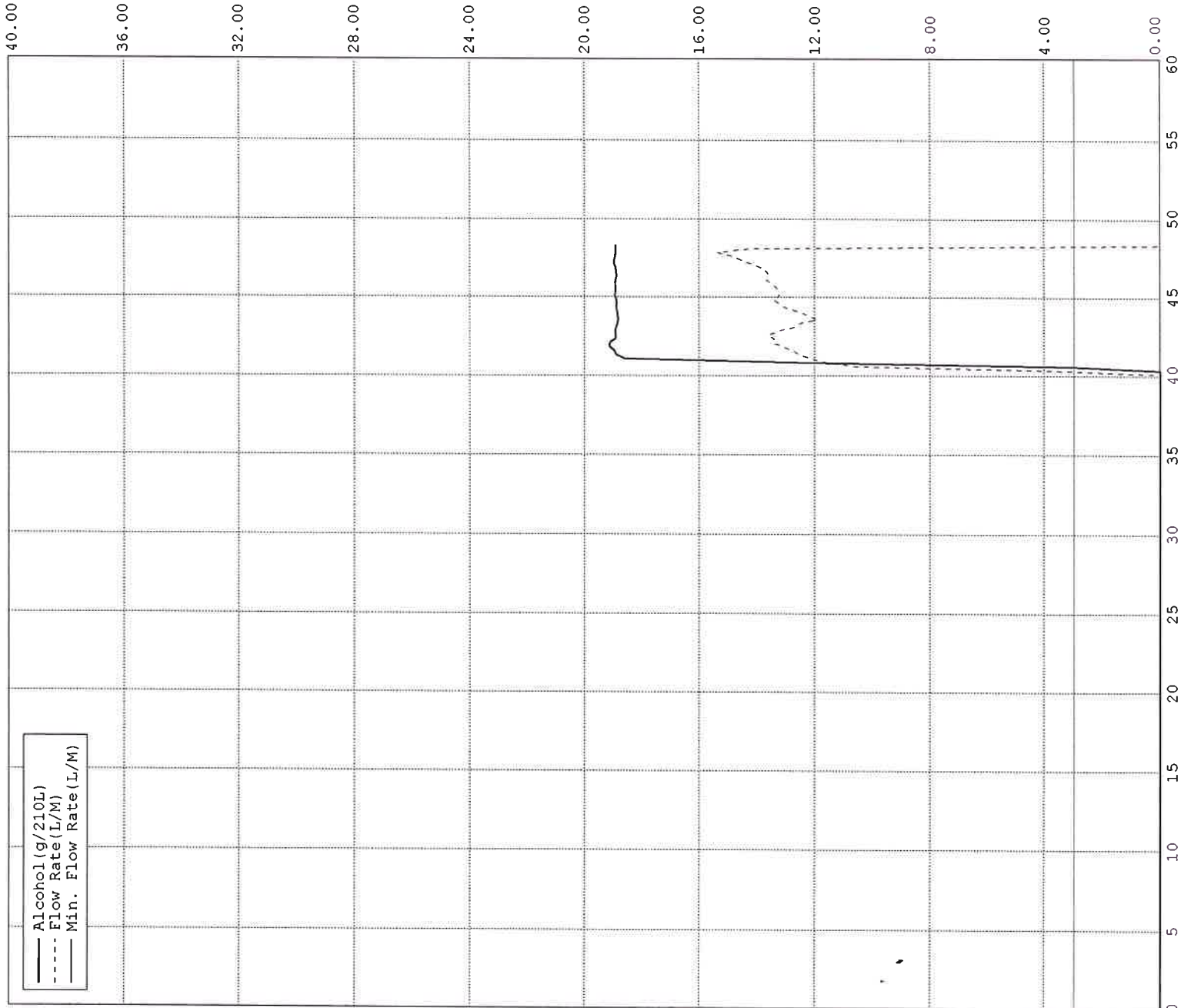
DEPT/AGENCY:
AAA1
CASE/REPORT: 23-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	14:55
BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:55
Xq = 0.093 (0.47%)		
EXTERNAL STANDARD	0.079	14:55
X[1] = 0.0793 (0.0003) (0.0025)		
BLANK TEST	0.000	14:56
SUBJECT SAMPLE (Vol=1.72L)	0.095	14:57
X[1] = 0.0950 (-0.0017) (0.0002)		
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.079	14:58
X[1] = 0.0793 (0.0007) (0.0015)		
BLANK TEST	0.000	14:59

Filter 2 Avg = 0.0004
Filter 3 Avg = 0.0018

06/13/23



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 06/13/2023
Time: 15:20:41

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 23-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 09523080A1
EXPIRATION: 05/05/2025

DIAGNOSTIC CHECK	PASSED	15:21
BLANK TEST	0.000	15:21
INTERNAL STANDARD	VERIFIED	15:21
EXTERNAL STANDARD	0.079	15:22
BLANK TEST	0.000	15:23
SUBJECT SAMPLE (Vol=2.03L)	0.000	15:23
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.080	15:24
BLANK TEST	0.000	15:25

