



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: 100683
 Date Received: Not Recorded
 Condition of item: Not Recorded
 Method Used: DataMaster DMT Calibration/Current BAPM
 Calibration Range: 0.020 g/210L - 0.300 g/210L

Report Date: 10/14/2022
 T690BCQFWXPY1

No As-Found Data Collected

Start Date 10/12/2022 - As Left - End Date 10/13/2022

As Left Conditions - Barometric Pressure (inHg): 29.54 Temperature (C): 21.7 Relative Humidity (%): 19

As-Left Data

Nominal Values (g/210L)	Target Value at 29.54 in Hg	Lot Number	Results (g/210L)					Mean (g/210L)	Uncertainty (g/210L)
0.020	0.020	AG100401	0.020	0.020	0.020	0.020	0.020	0.020	+/- 0.002
0.040	0.039	AG111710	0.039	0.039	0.039	0.039	0.040	0.039	+/- 0.003
0.080	0.079	AG135004	0.079	0.079	0.078	0.078	0.078	0.078	+/- 0.003
0.100	0.099	AG108404	0.098	0.098	0.098	0.099	0.098	0.098	+/- 0.003
0.150	0.148	AG134205	0.147	0.146	0.147	0.147	0.147	0.147	+/- 0.004
0.300	0.296	AG130502	0.291	0.291	0.291	0.291	0.291	0.291	+/- 0.008

No As Found Evaluation performed due to last Evaluation completed prior to Breath Alcohol Procedure Manual version 5.0.

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.

Analyst: Derek Walton
derek.walton@alaska.gov

Technically Reviewed by: Carlie Glaister on 10/14/2022

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100683 Analyst: Derek Watten Start Date: 10/12/22

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

As Left Conditions:

Barometric Pressure (in Hg): 29.54 Temperature (C): 21.7 Relative Humidity (%): 19

Linearity Test (attached)

0.020g/210L Mnf: Airgas Lot: AG100401 Exp: 01/04/23
0.040g/210L Mnf: Airgas Lot: AG111710 Exp: 04/27/23
0.080g/210L Mnf: Airgas Lot: AG135004 Exp: 12/16/23
0.100g/210L Mnf: Airgas Lot: AG108404 Exp: 03/25/23
0.150g/210L Mnf: Airgas Lot: AG134205 Exp: 12/08/23
0.300g/210L Mnf: Airgas Lot: AG130502 Exp: 11/01/23

Functional Tests (attached)

- Incomplete
- Maximum Attempts Exceeded
- Interference (Volatiles)
- Invalid
- Radio Frequency Interference (RFI)

Acetone Mnf: Lifeloc Lot: 21DP41158 Level: 0.100 Exp: 04/29/23

Simulator S/N: SD1200 Verification Performed?

Isopropanol Mnf: Lifeloc Lot: 21KP41172 Level: 0.100 Exp: 11/09/23

Simulator S/N: DR4176 Verification Performed?

Neg. Control Mnf: Lifeloc Lot: 21KP41172 Level: 0.100 Exp: 11/09/23

Simulator S/N: DR4162 Verification Performed?

Calibrated External Thermometer:

Thermometer S/N: 210958384 Calibration Due Date: 11/09/23

- Verify stylus is calibrated
 - Reset Options
 - Clear Memory
 - Verification of Calibration (VOC)
 - Non-Drinking Subject Test
 - Upload
 - Remove Tank Prior to Shutdown
- Calibration End Date: 10/13/22

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 10/12/2022
Time: 12:24:36

VERSIONS
DMT: 3.02
PIC: 3.03
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 = 1.95 V PASSED
(1.17 V - 2.73 V)
Cooler Voltage = 1.89 V PASSED
(1.13 V - 2.65 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 544 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.128 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.001 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 = 0.104 1.09% ✓ (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100683

Date: 10/12/2022
Time: 12:56 PM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 46.6°C

Current Barometer 29.6 in
Volume (Ltr) 1.43

Settings
Lamp: 1.76 V
Bias: 79 V
Cooler: 1.79 V
Chopper: 527 Hz

Voltages (V)
Flow: 1.02 V
Detector: -0.055 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 09/01/2022
Time: 11:28:48

OPERATOR NAME:
TATIANA MALNOSKE
CERTIFICATE #: 10437

Ca = 0.1000
CAL = 0.965272 0.800 <= CAL < 1.200
b1 = 0.0011 0.0000 <= b1 < 0.0040
b2 = 0.0076 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.1052 0.0500 <= Xq < 0.2000
a21 = 1.200662 1.050 <= a21 < 1.300
a31 = 0.521225 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100683

Date: 10/12/2022
Time: 12:57:49

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

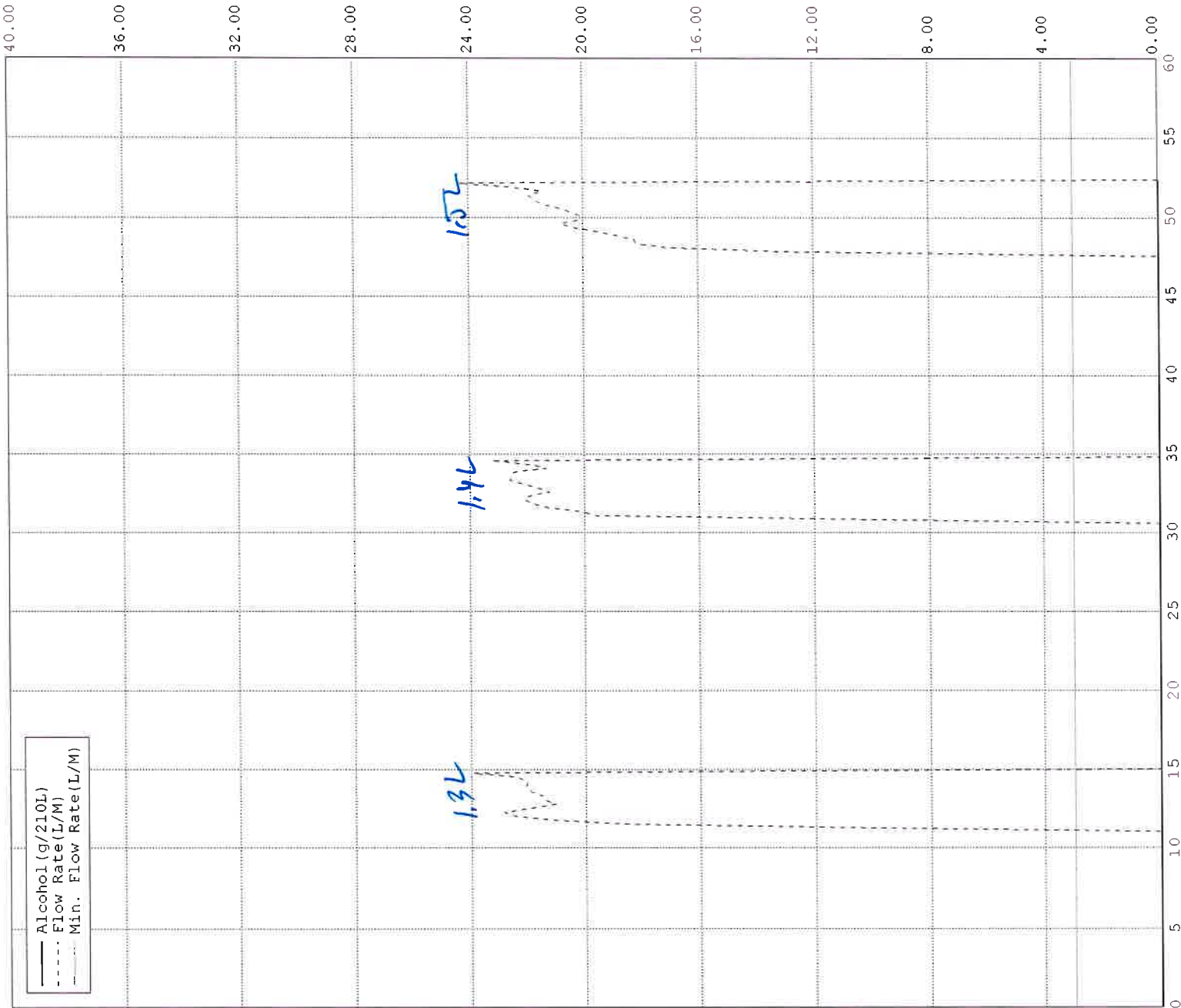
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.54: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK	PASSED	13:03
BLANK TEST	0.000	13:03
INTERNAL STANDARD	VERIFIED	13:03
EXTERNAL STANDARD	0.079	13:03
BLANK TEST	0.000	13:04
SUBJECT SAMPLE (Vol=1.51L)	0.000	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.079	13:06
BLANK TEST	0.000	13:07



LINEARITY CHECK

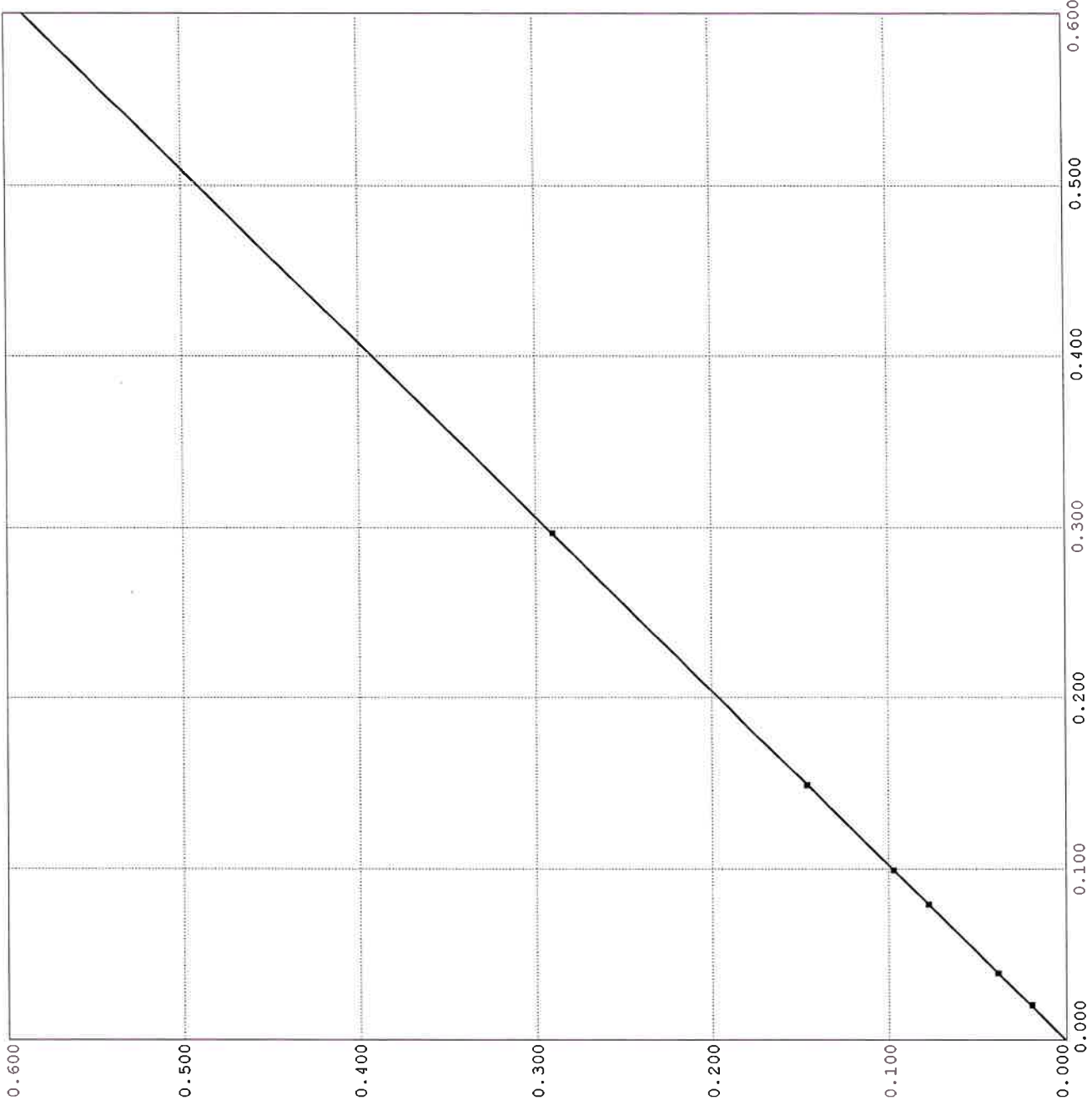
 Alaska Department of Public Safety
 DATAMASTER dmt: 100683

Date: 10/12/2022
 Time: 13:14:06

SUPERVISOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0392	0.0004
0.079	0.0784	0.0005
0.099	0.0982	0.0004
0.148	0.1468	0.0004
0.296	0.2910	0.0000

SLOPE = 0.981341
 R² = 0.999982



DM

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

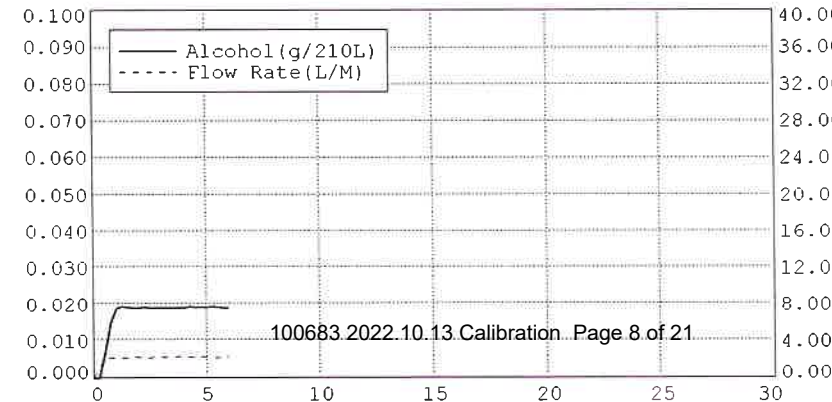
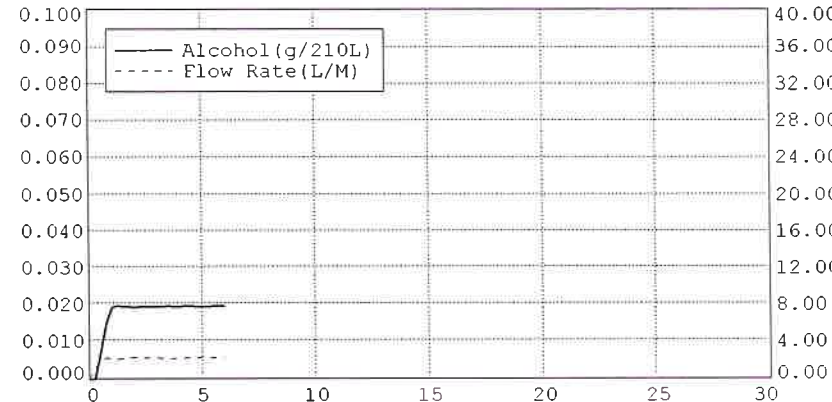
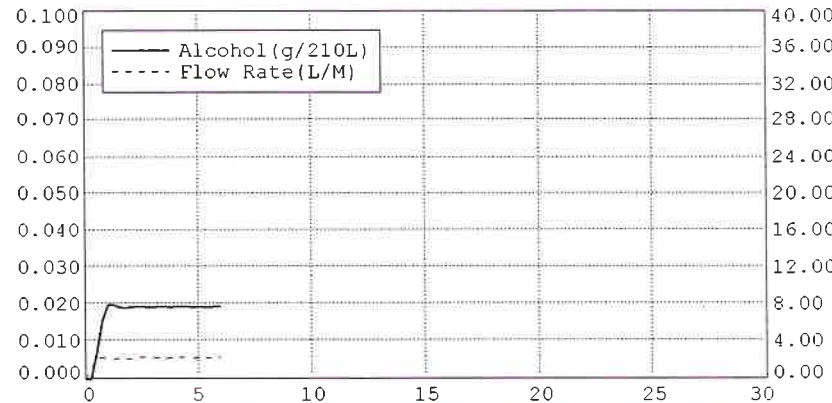
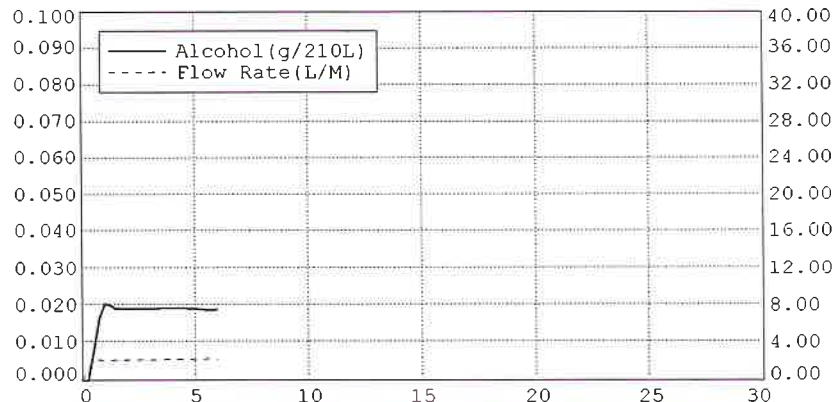
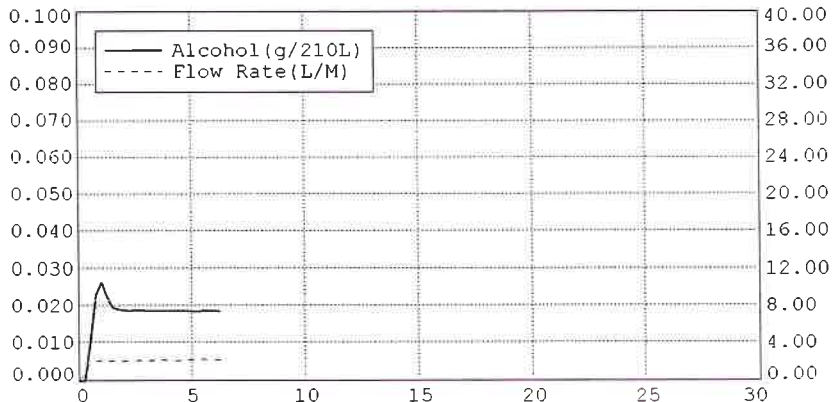
Date: 10/12/2022
 Time: 13:14:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.53: 0.020
 LOT #: AG100401
 EXPIRATION: 01/04/2023
 TANK PRESSURE: 545 psi

BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.020	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.020	13:17
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.020	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.020	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.020	13:20
BLANK TEST	0.000	13:21

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

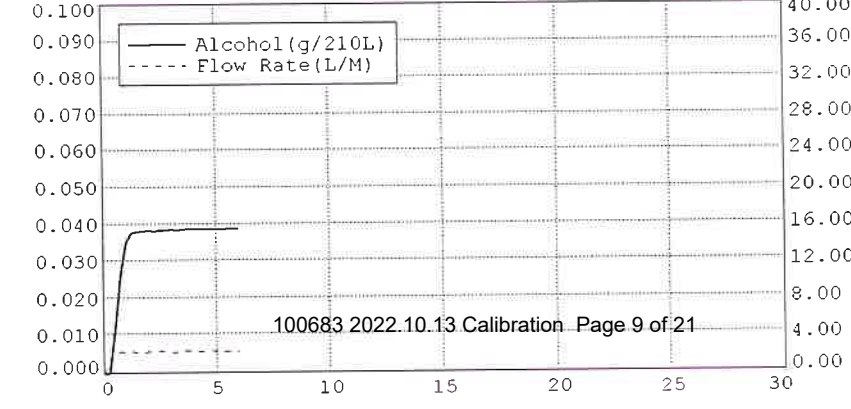
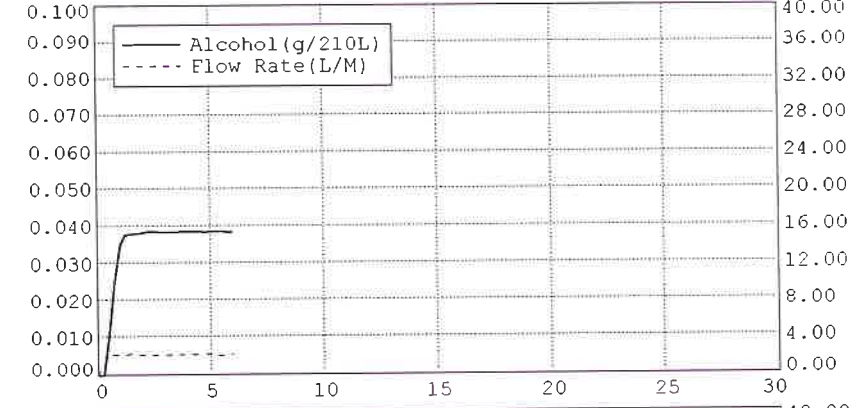
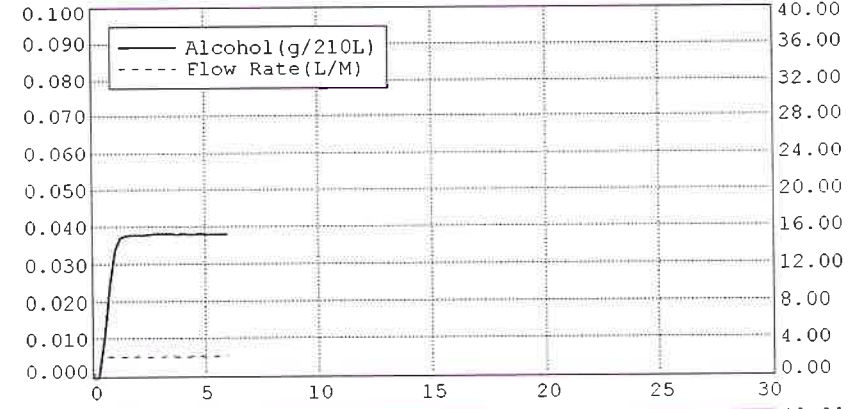
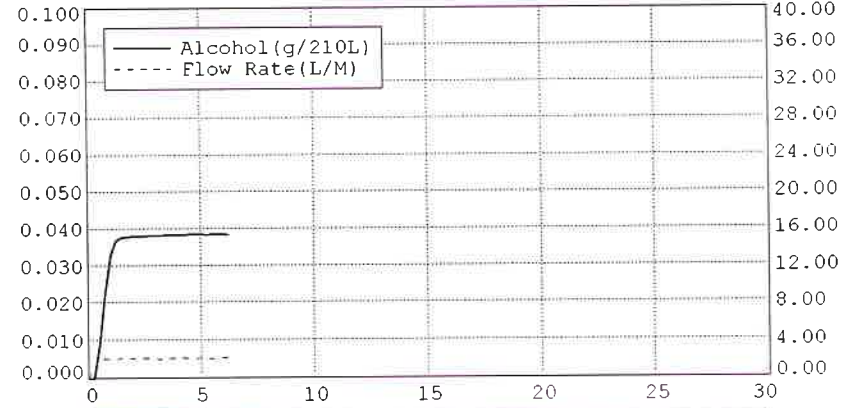
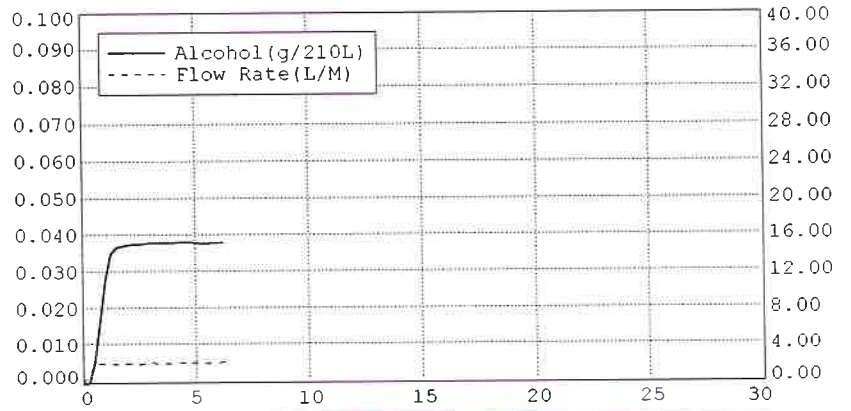
Alaska Department of Public Safety
 DATAMASTER dmt: 100683

Date: 10/12/2022
 Time: 13:23:14

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.52: 0.039
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 127 psi

BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:24
EXTERNAL STANDARD	0.039	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.039	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.039	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.039	13:28
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.040	13:29
BLANK TEST	0.000	13:30

Average = 0.0392
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

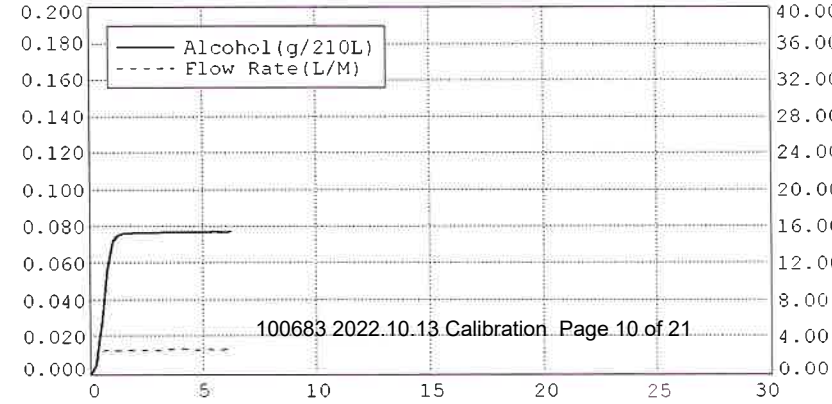
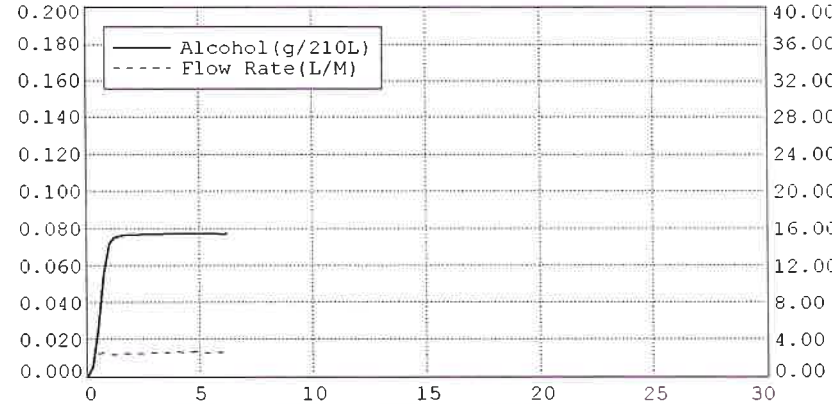
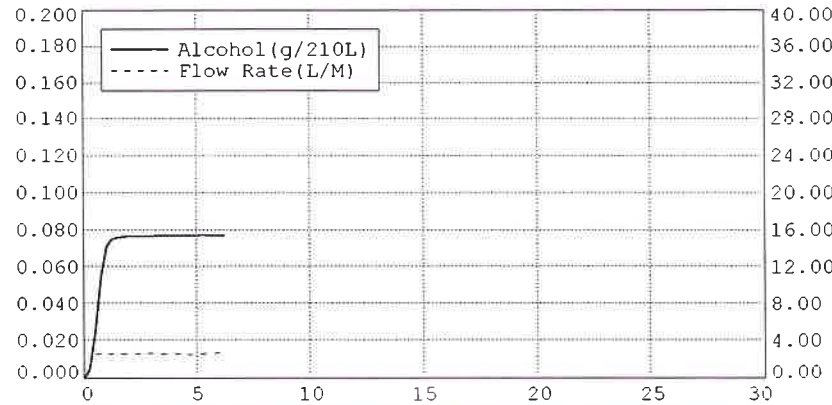
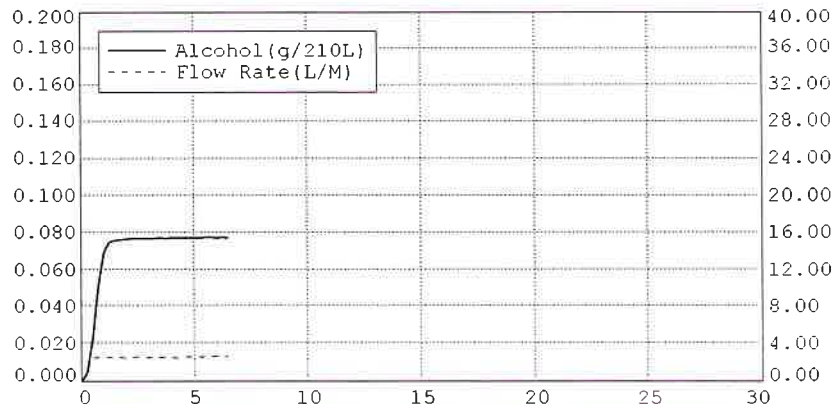
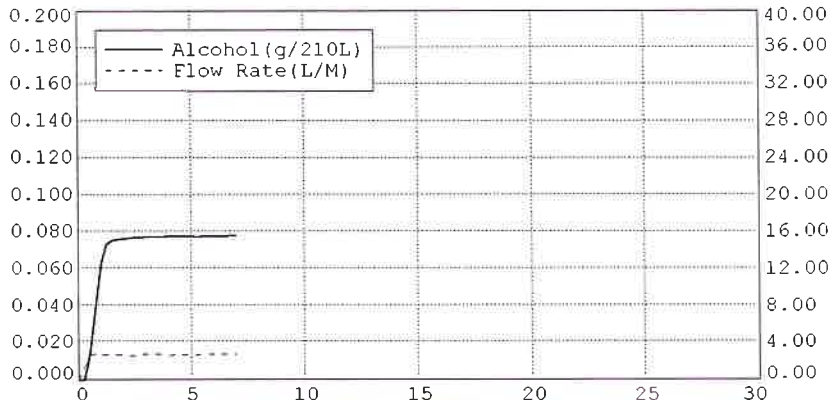
Date: 10/12/2022
 Time: 13:33:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.52: 0.079
 LOT #: AG135004
 EXPIRATION: 12/16/2023
 TANK PRESSURE: 1096 psi

BLANK TEST	0.000	13:34
INTERNAL STANDARD	VERIFIED	13:34
EXTERNAL STANDARD	0.079	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.079	13:35
BLANK TEST	0.000	13:36
EXTERNAL STANDARD	0.078	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.078	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.078	13:39
BLANK TEST	0.000	13:40

Average = 0.0784
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

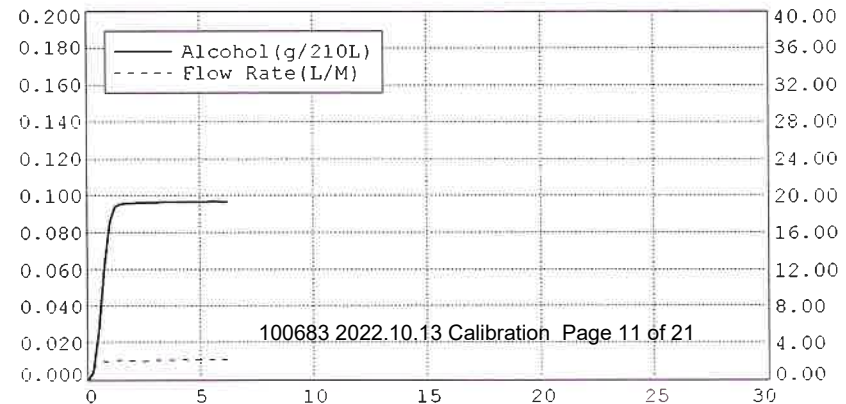
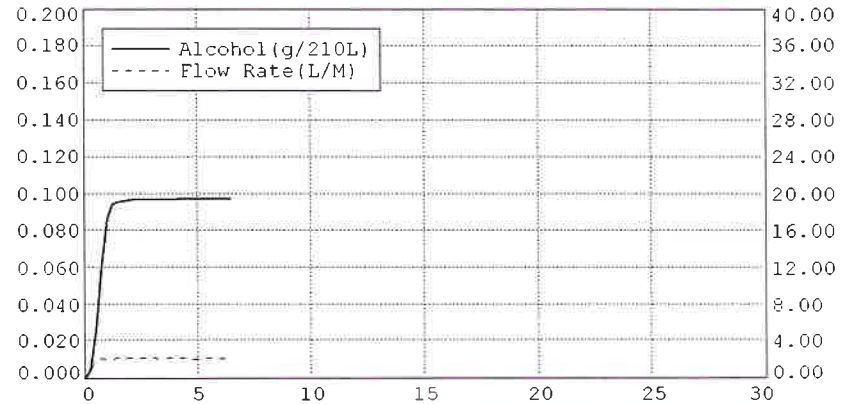
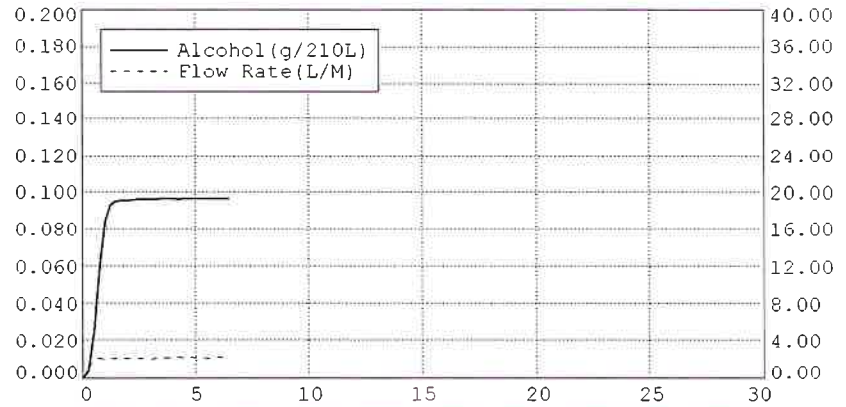
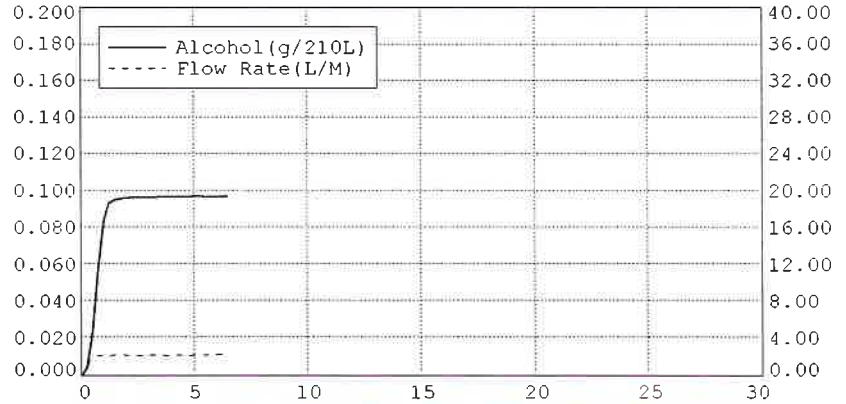
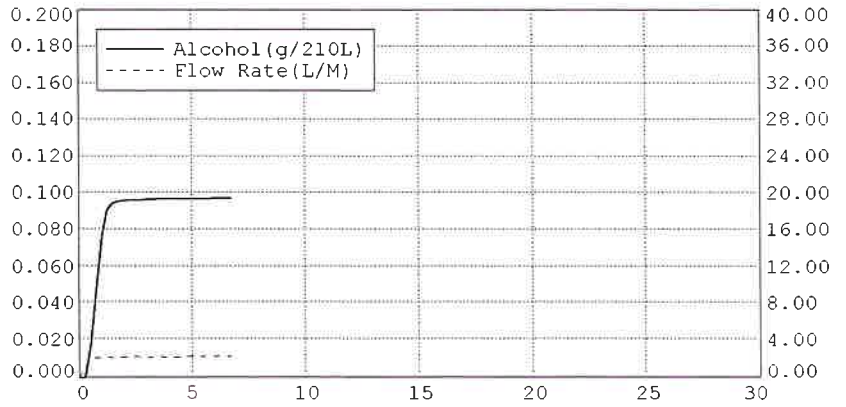
Date: 10/12/2022
 Time: 13:41:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.52: 0.099
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 191 psi

BLANK TEST	0.000	13:42
INTERNAL STANDARD	VERIFIED	13:42
EXTERNAL STANDARD	0.098	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.098	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.098	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.099	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.098	13:47
BLANK TEST	0.000	13:48

Average = 0.0982
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

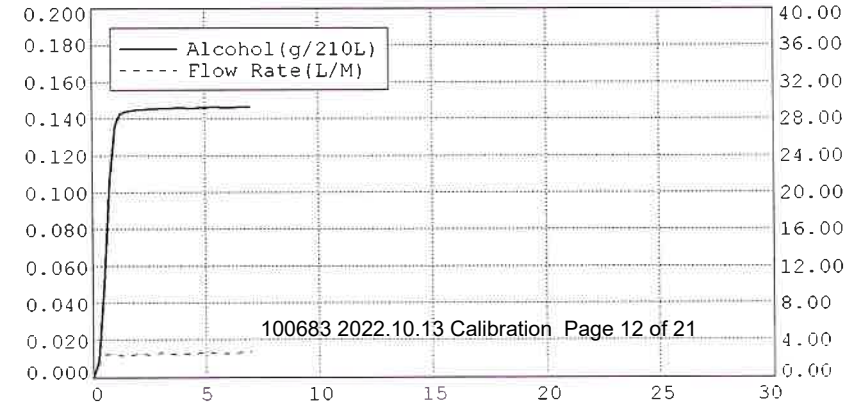
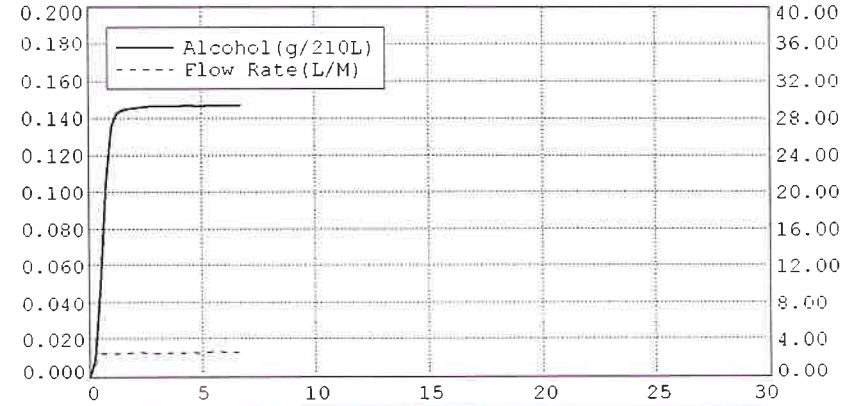
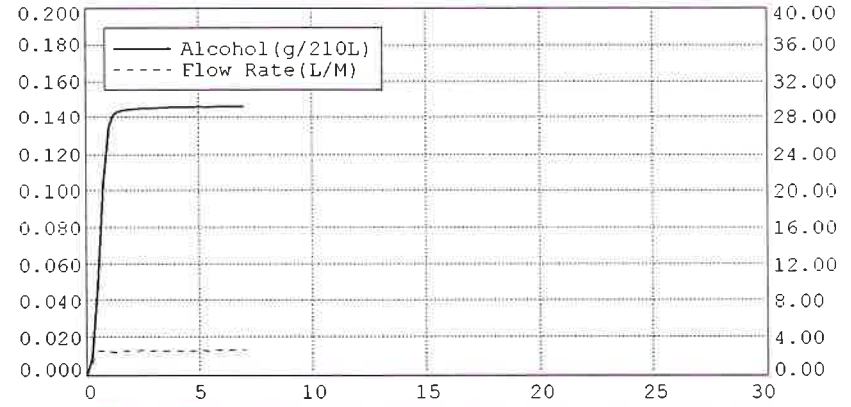
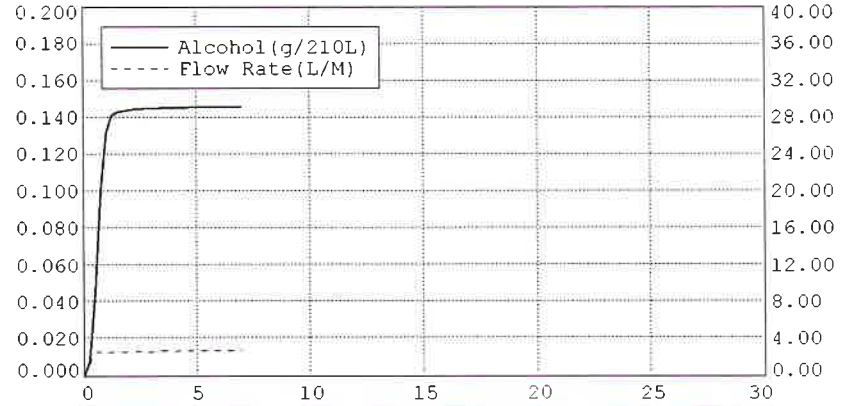
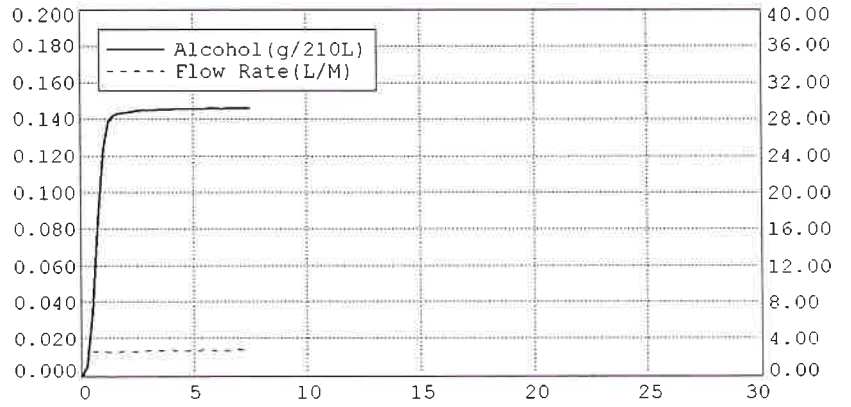
Date: 10/12/2022
 Time: 13:48:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.150
 TARGET AT 29.51: 0.148
 LOT #: AG134205
 EXPIRATION: 12/08/2023
 TANK PRESSURE: 1099 psi

BLANK TEST	0.000	13:49
INTERNAL STANDARD	VERIFIED	13:50
EXTERNAL STANDARD	0.147	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.146	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.147	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.147	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.147	13:54
BLANK TEST	0.000	13:55

Average = 0.1468
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100683

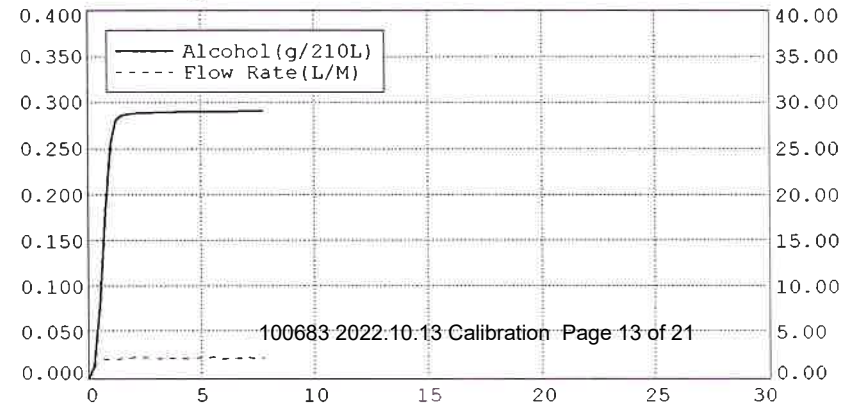
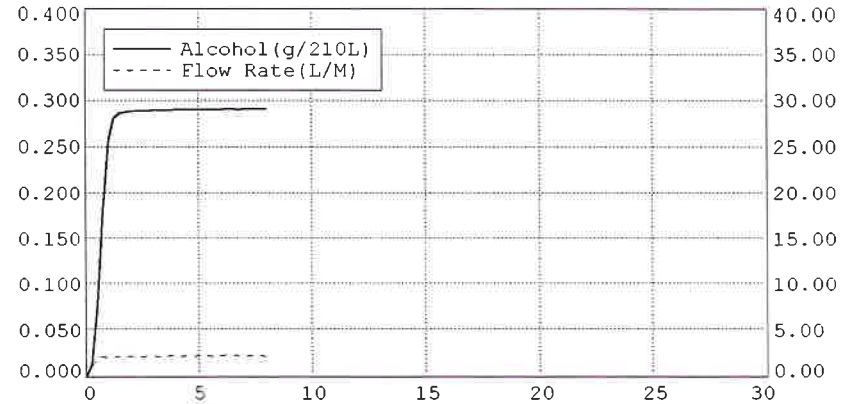
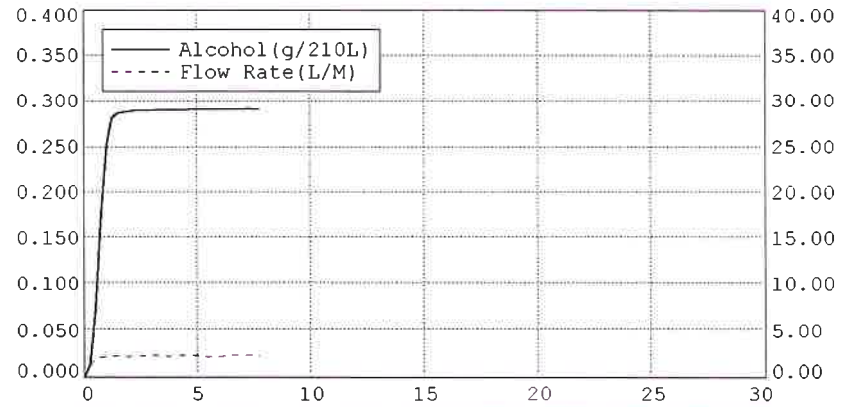
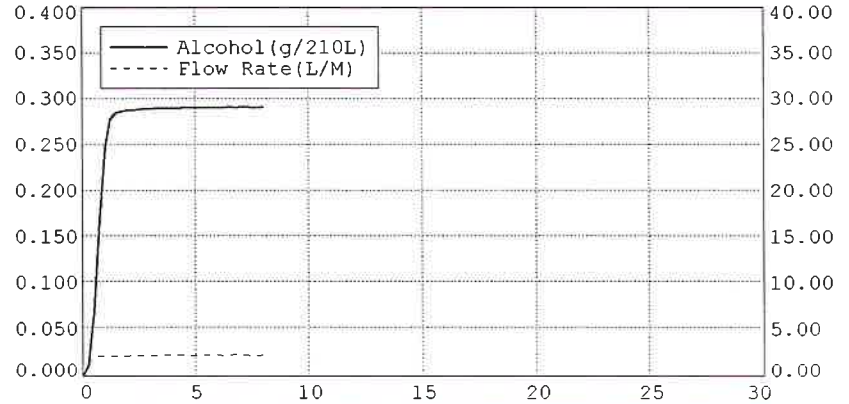
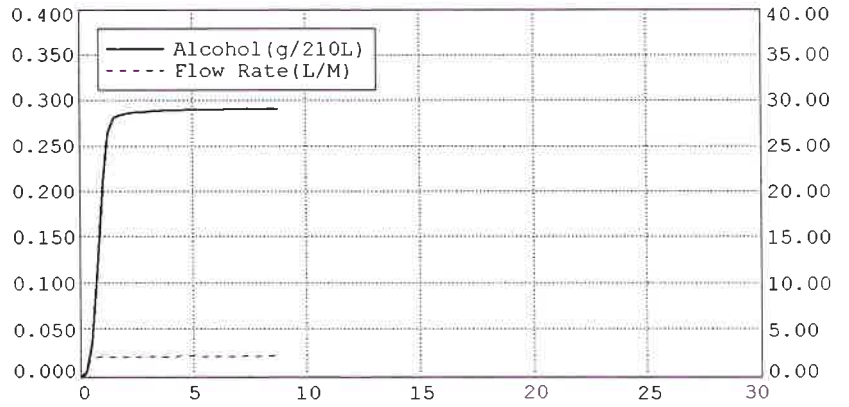
Date: 10/12/2022
 Time: 13:56:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.50: 0.296
 LOT #: AG130502
 EXPIRATION: 11/01/2023
 TANK PRESSURE: 234 psi

BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.291	13:57
BLANK TEST	0.000	13:58
EXTERNAL STANDARD	0.291	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.291	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.291	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.291	14:02
BLANK TEST	0.000	14:03

Average = 0.2910
 Std Dev = 0.0000



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 10/12/2022
Time: 14:07:56

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

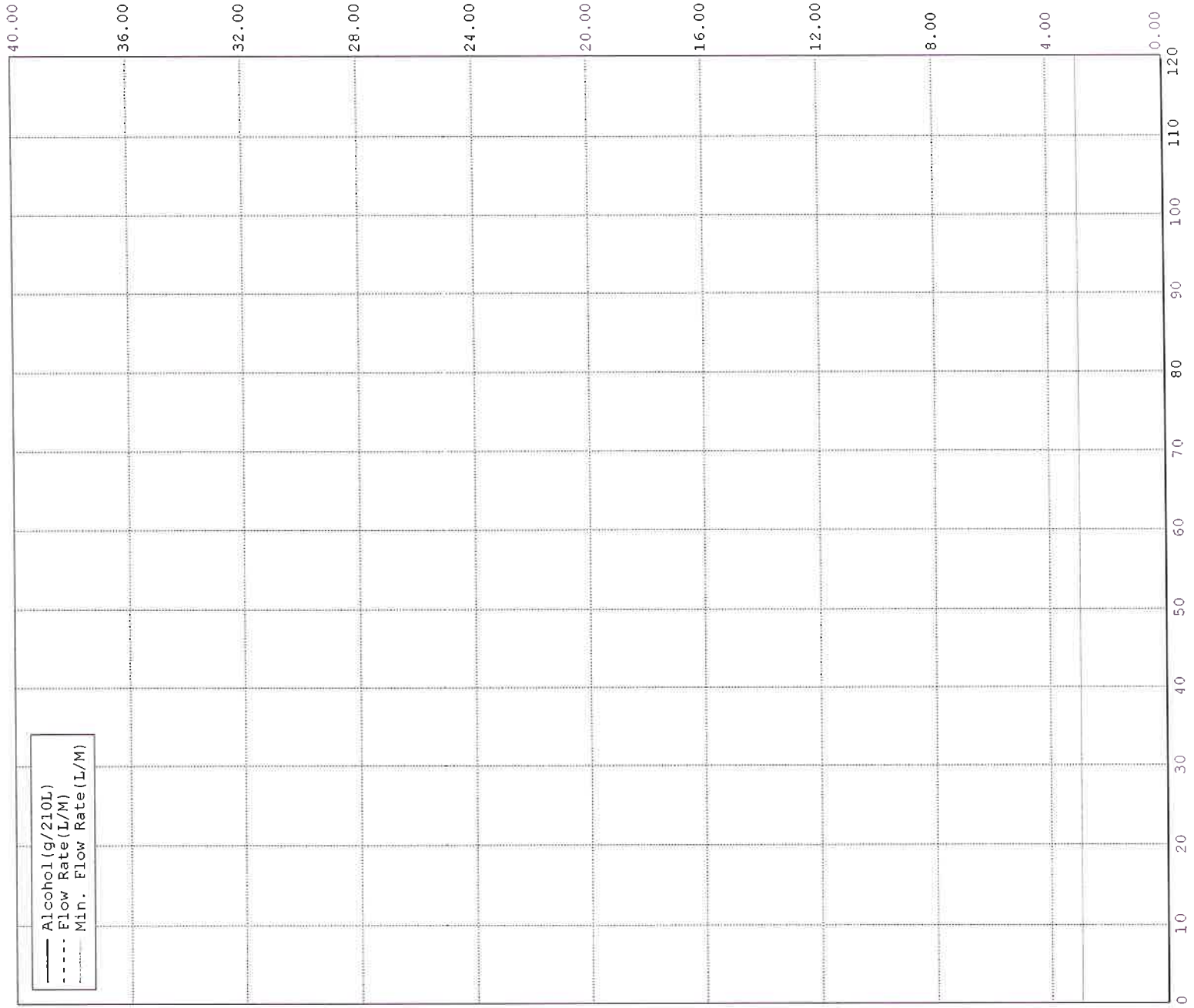
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.48: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK PASSED 14:09
BLANK TEST 0.000 14:09
INTERNAL STANDARD VERIFIED 14:09
EXTERNAL STANDARD 0.079 14:09
BLANK TEST 0.000 14:10
SUBJECT SAMPLE INCOMPLETE 14:12

AWW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 10/13/2022
Time: 11:17:35

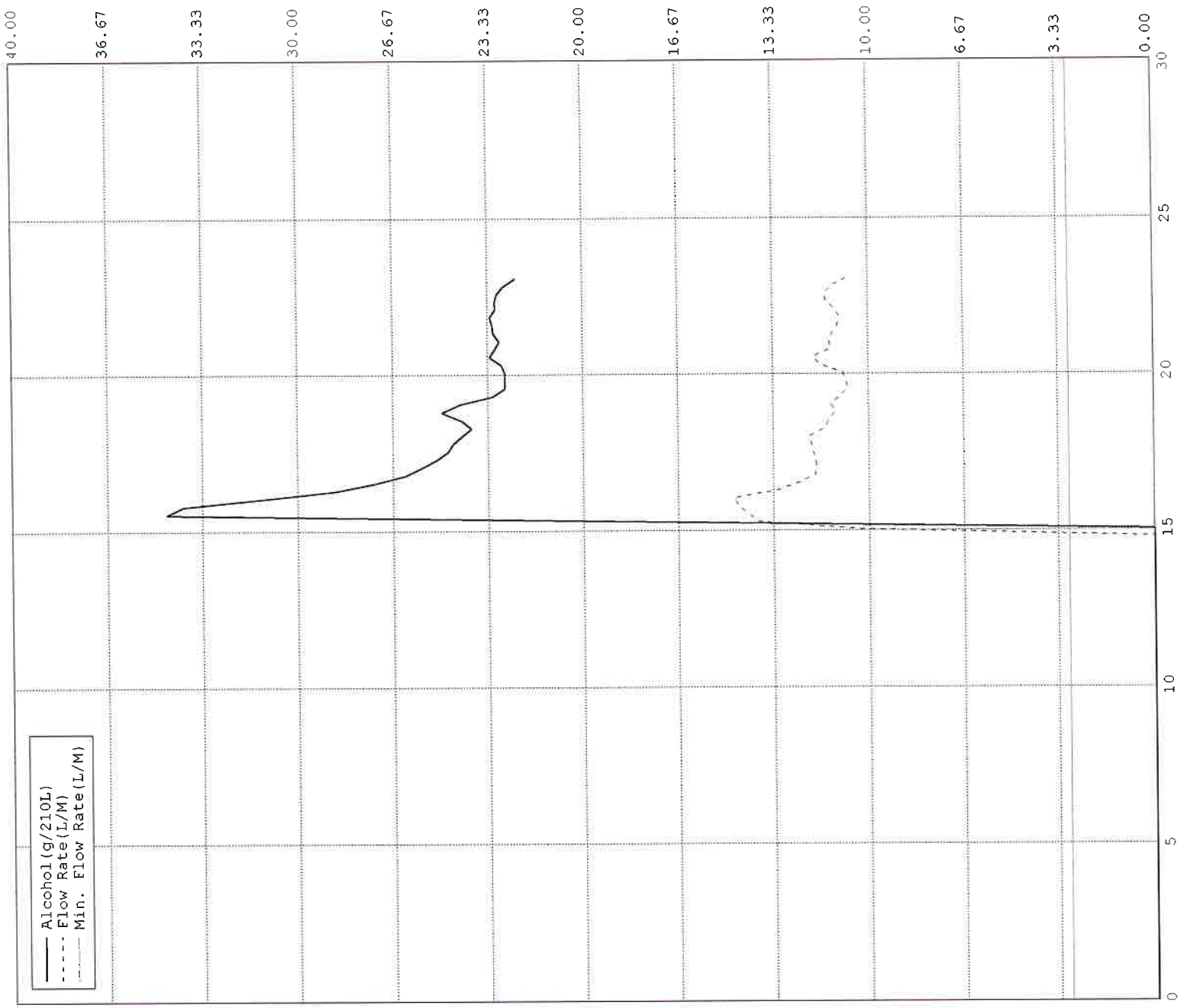
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.55: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK	PASSED	11:19
BLANK TEST	0.000	11:19
INTERNAL STANDARD	VERIFIED	11:19
EXTERNAL STANDARD	0.079	11:19
BLANK TEST	0.000	11:20
SUBJECT SAMPLE	INVALID	11:21



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100683

Date: 10/12/2022
Time: 14:19:47

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

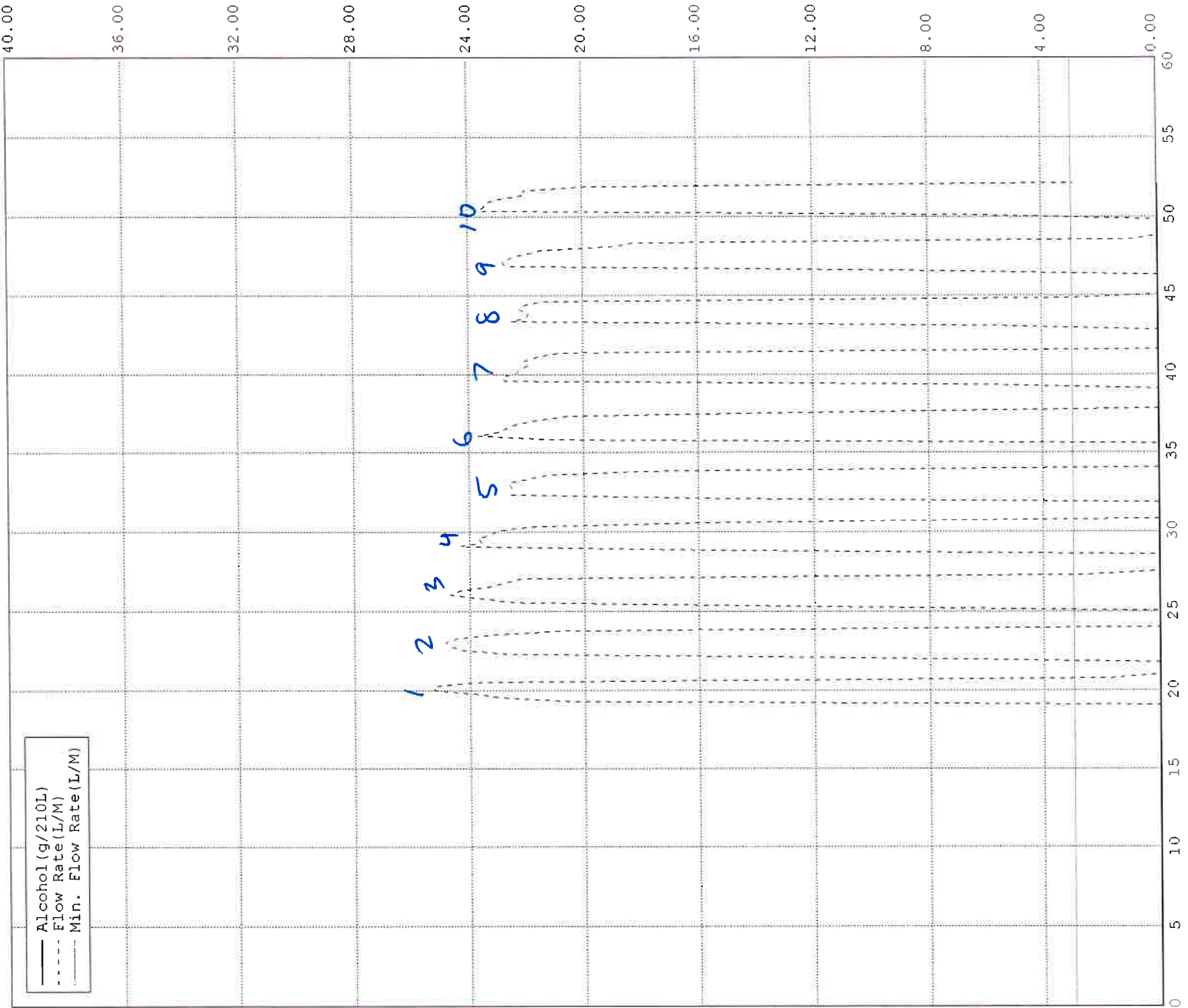
DEPT/AGENCY:
MAXIMUM ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.48: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK PASSED 14:20
BLANK TEST 0.000 14:20
INTERNAL STANDARD VERIFIED 14:21
EXTERNAL STANDARD 0.079 14:21
BLANK TEST 0.000 14:22
SUBJECT SAMPLE XXX 14:23

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100683

Date: 10/13/2022
Time: 11:46:33

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

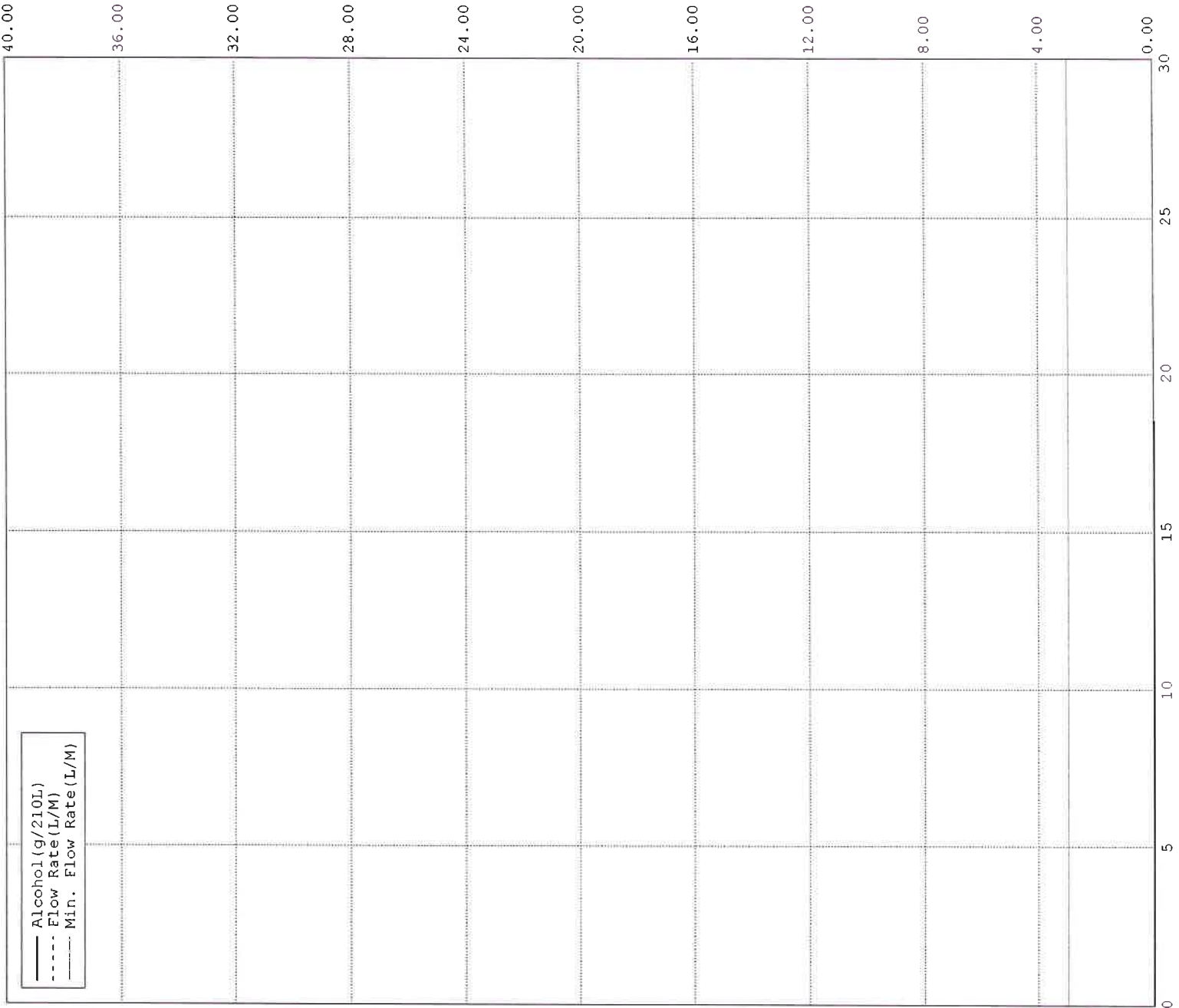
DEPT/AGENCY:
RADIO FREQUENCY
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.57: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK PASSED 11:48
BLANK TEST 0.000 11:48
INTERNAL STANDARD VERIFIED 11:48
EXTERNAL STANDARD 0.078 11:48
BLANK TEST 0.000 11:49

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 10/13/2022
Time: 12:02:38

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

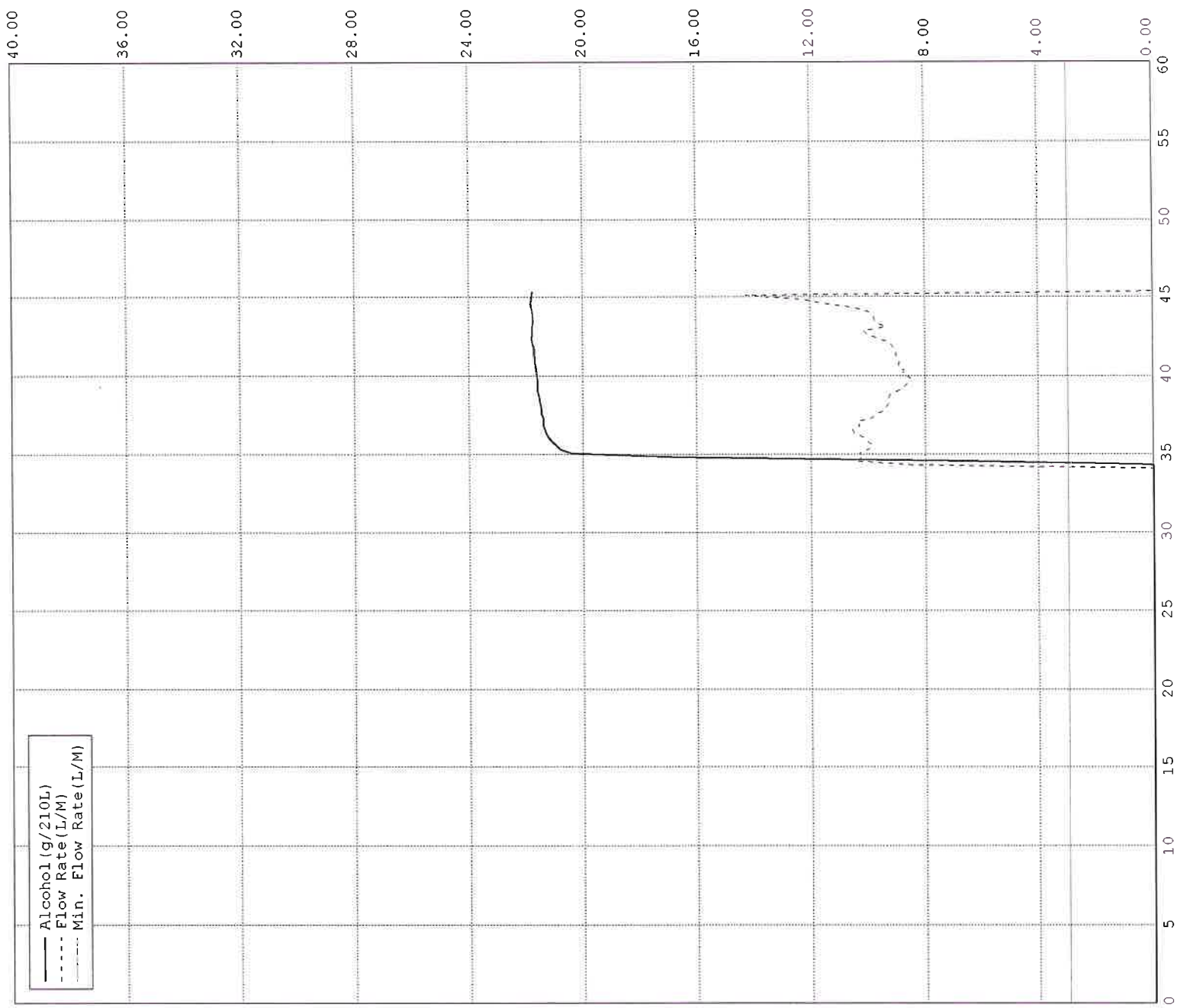
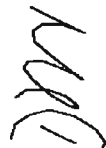
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.57: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK PASSED 12:03
BLANK TEST 0.000 12:03
INTERNAL STANDARD VERIFIED 12:03
Xq = 0.105 (0.50%)
EXTERNAL STANDARD 0.078 12:04
X[1] = 0.0780 (-0.0025) (0.0028)
BLANK TEST 0.000 12:05
SUBJECT SAMPLE XXX 12:05
X[1] = 0.1093 (-0.0204) (0.0006)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 10/13/2022
Time: 12:12:34

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

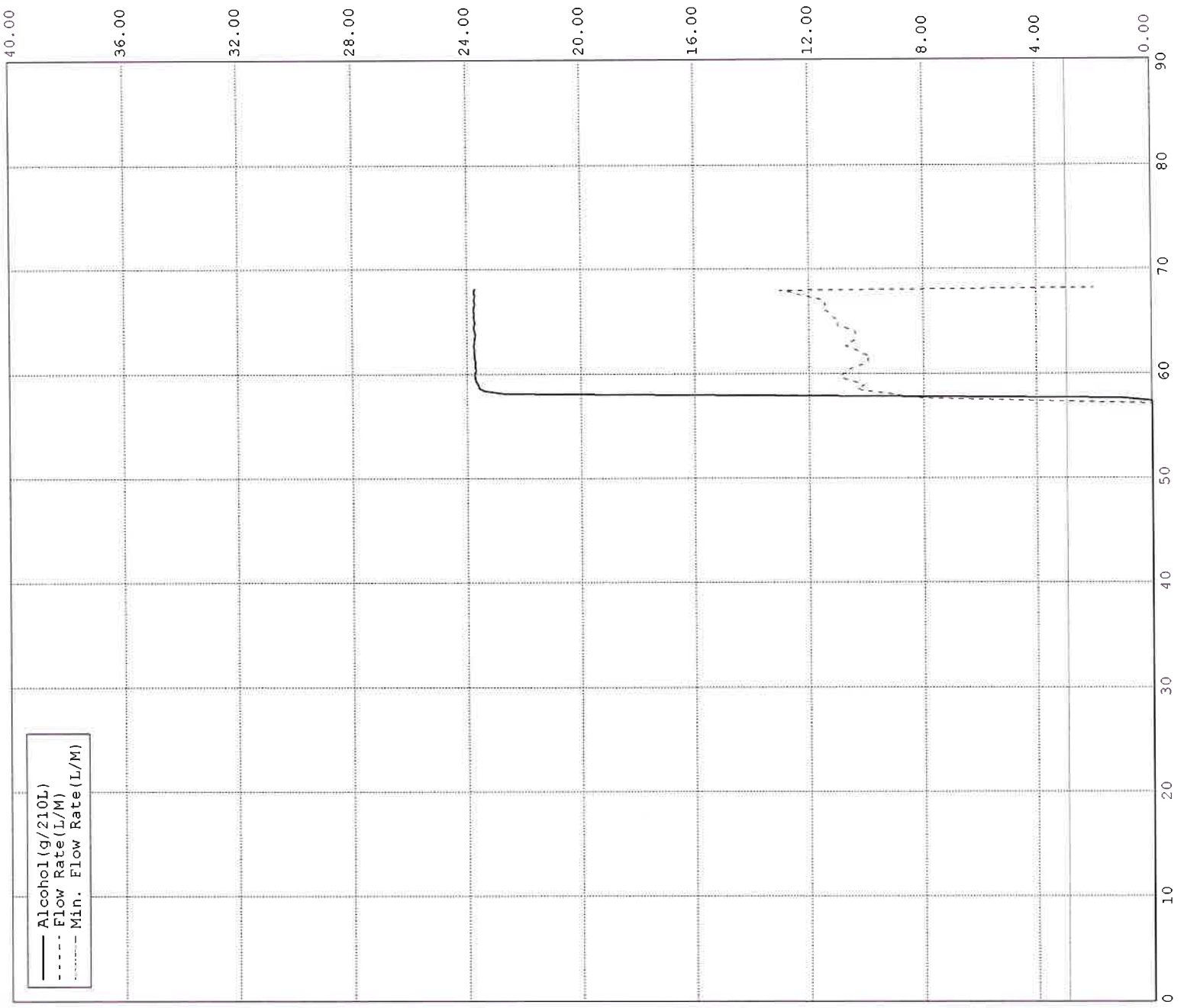
DEPT/AGENCY:
INTERFERENCE ISOPROPANOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.58: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK	PASSED	12:13
BLANK TEST	0.000	12:13
INTERNAL STANDARD	VERIFIED	12:13
Xg = 0.105 (0.25%)		
EXTERNAL STANDARD	0.078	12:14
X[1] = 0.0784 (-0.0024) (0.0036)		
BLANK TEST	0.000	12:14
SUBJECT SAMPLE	XXX	12:16
X[1] = 0.1191 (-0.0342) (0.0006)		

Interference Detected

Handwritten signature



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 10/13/2022
Time: 12:19:35

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.58: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK	PASSED	12:20
BLANK TEST	0.000	12:20
INTERNAL STANDARD	VERIFIED	12:20
Xq = 0.105 (0.25%)		
EXTERNAL STANDARD	0.078	12:21
X[1] = 0.0783 (-0.0024) (0.0027)		
BLANK TEST	0.000	12:21
SUBJECT SAMPLE (Vol=1.86L)	0.094	12:22
X[1] = 0.0941 (-0.0024) (0.0007)		
BLANK TEST	0.000	12:23
EXTERNAL STANDARD	0.078	12:23
X[1] = 0.0782 (-0.0021) (0.0022)		
BLANK TEST	0.000	12:24

Filter 2 average: -0.0024

Filter 3 average: 0.0028



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 10/13/2022
Time: 15:40:23

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

DEPT/AGENCY:
NON-DRINKING SUBJECT
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: AG135004
EXPIRATION: 12/16/2023

DIAGNOSTIC CHECK	PASSED	15:41
BLANK TEST	0.000	15:41
INTERNAL STANDARD	VERIFIED	15:41
EXTERNAL STANDARD	0.079	15:41
BLANK TEST	0.000	15:42
SUBJECT SAMPLE (Vol=3.17L)	0.000	15:43
BLANK TEST	0.000	15:44
EXTERNAL STANDARD	0.079	15:44
BLANK TEST	0.000	15:45

