



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: 100692
 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
 G690BCXCNH6FMB

No As-Found Data Collected

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

As Left Conditions - Barometric Pressure (inHg): 29.55 Temperature (C): 21.5 Relative Humidity (%): 19

As-Left Data

Nominal Values (g/210L)	Target Value at 29.55 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	0.040	0.039	0.039	0.039	0.039	+/- 0.003
0.080	0.079	AG113402	0.077	0.077	0.077	0.077	0.077	0.077	+/- 0.003
0.100	0.099	AG108404	0.097	0.097	0.097	0.097	0.097	0.097	+/- 0.003
0.150	0.148	AG134205	0.146	0.146	0.146	0.146	0.146	0.146	+/- 0.004
0.300	0.296	AG130502	0.290	0.289	0.289	0.289	0.289	0.289	+/- 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 #: 100692 Analyst: Derek Nathan Start Date: 10/12/22

- Diagnostic Test (attached)
- Adjust voltages, if needed
 - Lamp (2.60 V Maximum)
 - Bias
 - Cooler (2.00 V Maximum)
- Internal Standard value \leq 3.00%
 - 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 1.5 L (1.3L to 1.7L)

As Left Conditions:

Barometric Pressure (in Hg): 29.55 Temperature (C): 21.5 Relative Humidity (%): 19%

Linearity Test (attached)

0.020g/210L Mnf:	<u>Airgas</u>	Lot:	<u>AG10040</u>	Exp:	<u>01/04/23</u>
0.040g/210L Mnf:	<u>Airgas</u>	Lot:	<u>AG111710</u>	Exp:	<u>04/27/23</u>
0.080g/210L Mnf:	<u>Airgas</u>	Lot:	<u>AG113402</u>	Exp:	<u>05/14/23</u>
0.100g/210L Mnf:	<u>Airgas</u>	Lot:	<u>AG108404</u>	Exp:	<u>03/25/23</u>
0.150g/210L Mnf:	<u>Airgas</u>	Lot:	<u>AG134205</u>	Exp:	<u>12/08/23</u>
0.300g/210L Mnf:	<u>Airgas</u>	Lot:	<u>AG130502</u>	Exp:	<u>11/01/23</u>

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: DR4176 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

100692 2022.10.13 Calibration Page 2 of 21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100692

Date: 10/12/2022
Time: 12:22:58

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 = 47.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.87 V PASSED
(1.11 V - 2.59 V)
Cooler Voltage = 1.45 V PASSED
(0.89 V - 2.07 V)
Bias Voltage = 78 V PASSED
(47 V - 111 V)
Chopper Freq = 533 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 3.990 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 = 0.093 0.19% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100692

Date: 10/12/2022
Time: 12:32 PM

Temperatures (°C)

Sample Cell: 49.6°C
Breath Tube: 47.4°C

Current Barometer 29.6 in
Volume (Ltr) 1.55

Settings

Lamp: 1.87 V
Bias: 78 V
Cooler: 1.50 V
Chopper: 528 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.037 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100692

Date: 09/01/2022
Time: 08:22:06

OPERATOR NAME:
TATIANA MALNOSKE
CERTIFICATE #: 10437

Ca = 0.1000
CAL = 0.964068 0.800 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0060 0.0010 <= b2 < 0.0100
b3 = 0.0009 0.0000 <= b3 < 0.0040
Xq = 0.0925 0.0500 <= Xq < 0.2000
a21 = 1.163215 1.050 <= a21 < 1.300
a31 = 0.580475 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100692

Date: 10/12/2022
Time: 12:35:30

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

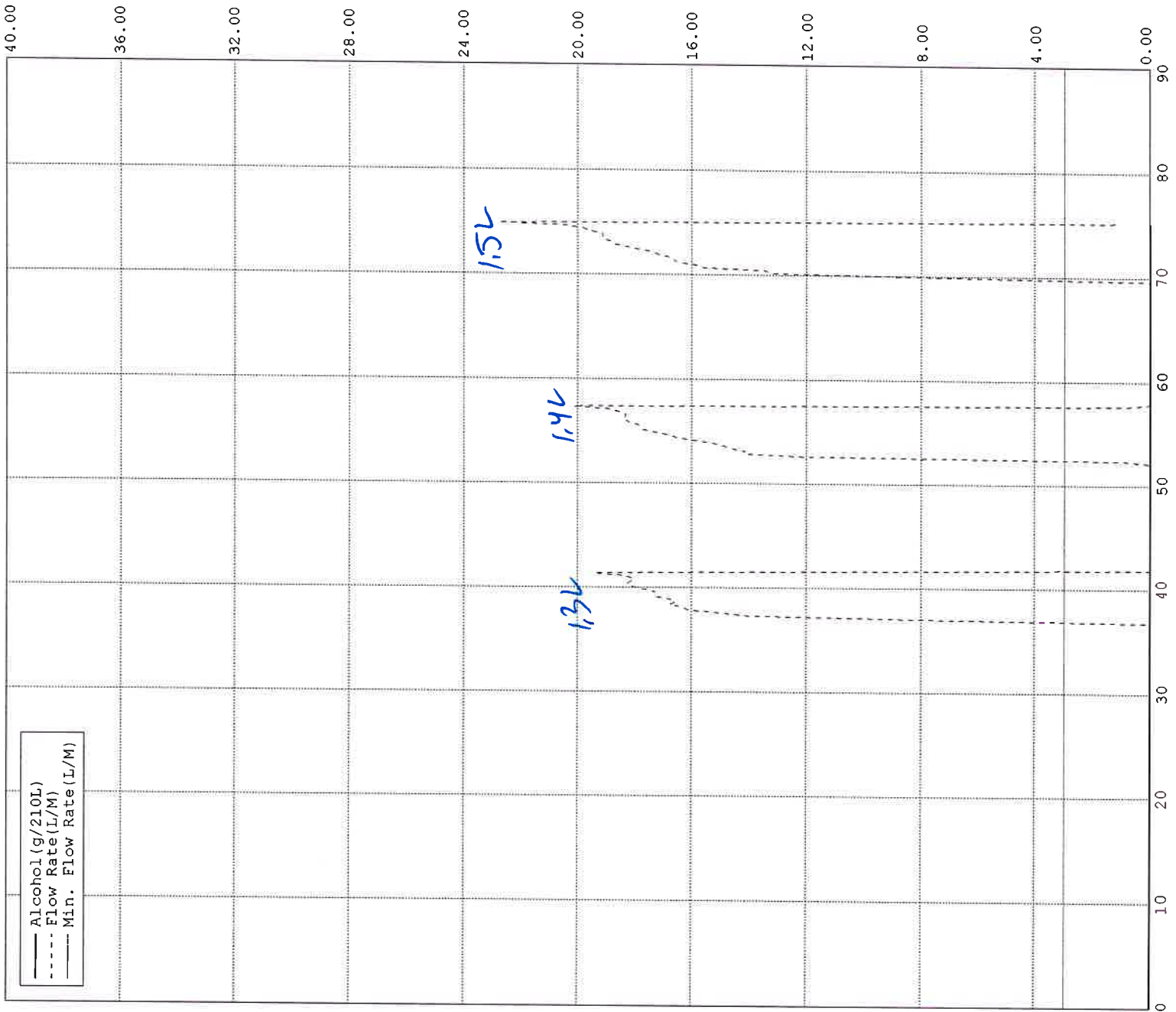
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.56: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:36
BLANK TEST	0.000	12:36
INTERNAL STANDARD	VERIFIED	12:36
EXTERNAL STANDARD	0.078	12:37
BLANK TEST	0.000	12:38
SUBJECT SAMPLE (Vol=1.52L)	0.000	12:39
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.078	12:40
BLANK TEST	0.000	12:41

Dhw



LINEARITY CHECK

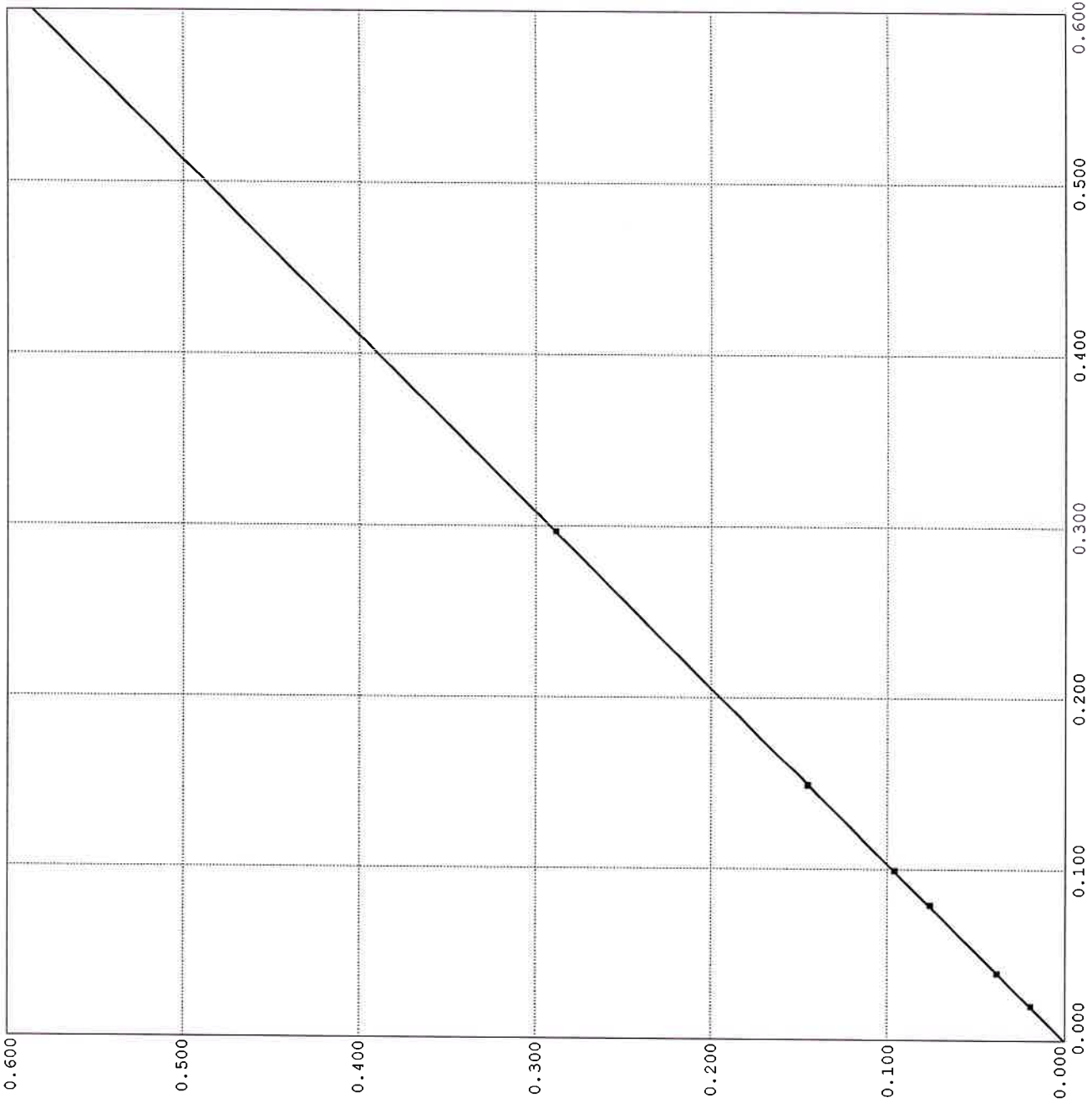
Alaska Department of Public Safety
 DATAMASTER dmt: 100692

Date: 10/12/2022
 Time: 12:53:13

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	0.0770	0.0000
0.099	0.0970	0.0000
0.148	0.1460	0.0000
0.296	0.2892	0.0004

SLOPE = 0.975555
 R² = 0.999962



DW

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100692

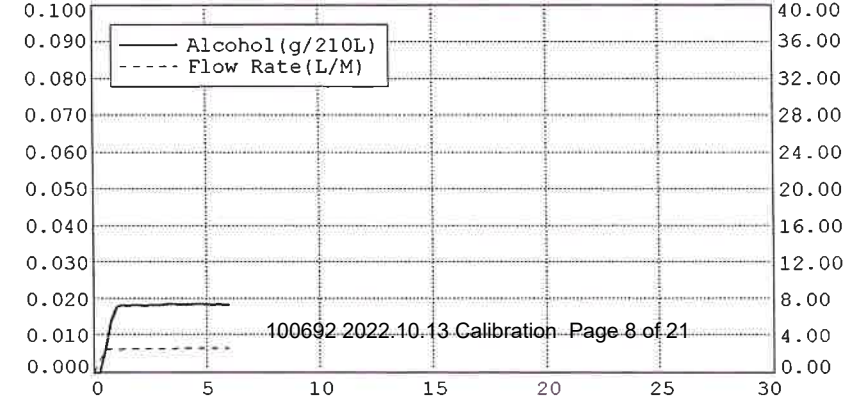
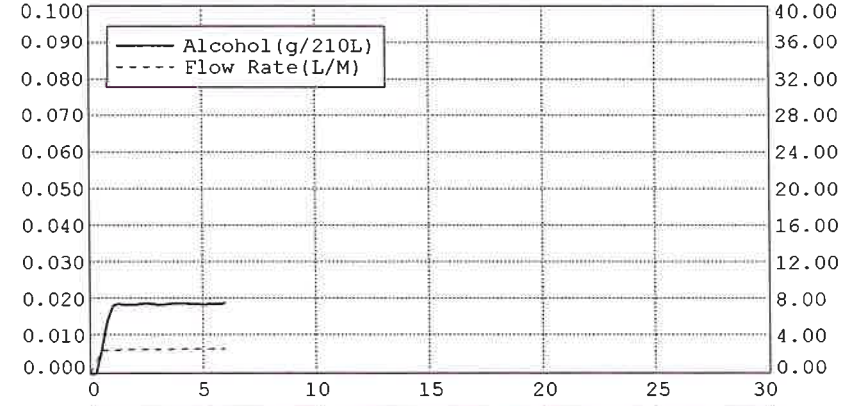
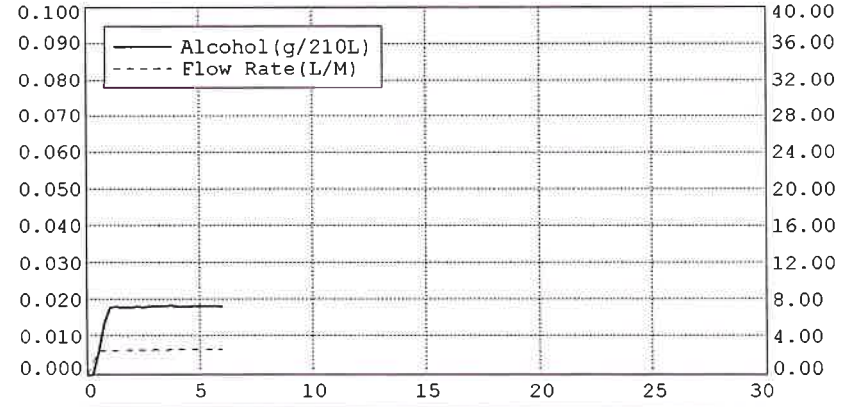
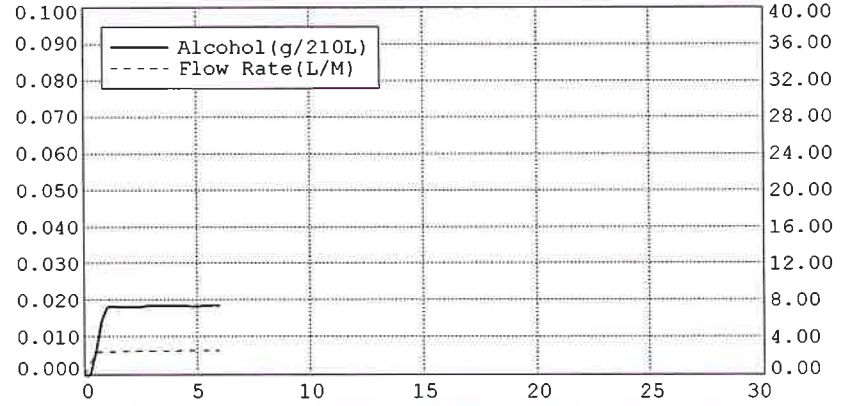
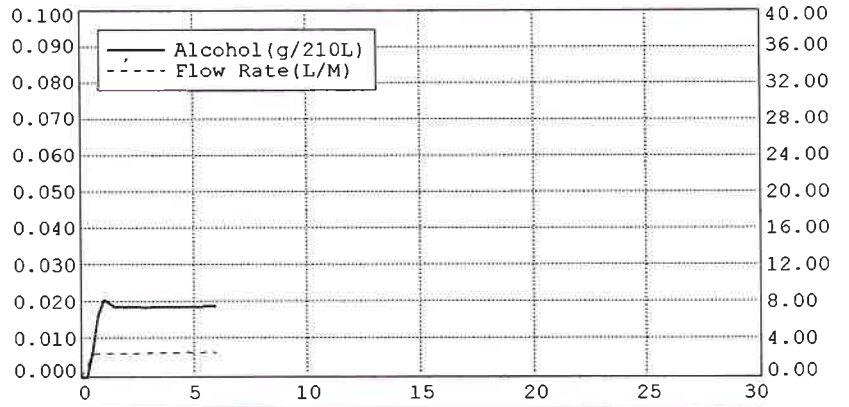
Date: 10/12/2022
Time: 12:53:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.54: 0.020
LOT #: AG100401
EXPIRATION: 01/04/2023
TANK PRESSURE: 558 psi

BLANK TEST	0.000	12:54
INTERNAL STANDARD	VERIFIED	12:54
EXTERNAL STANDARD	0.020	12:55
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.020	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.020	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.020	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.020	12:59
BLANK TEST	0.000	13:00

Average = 0.0200
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100692

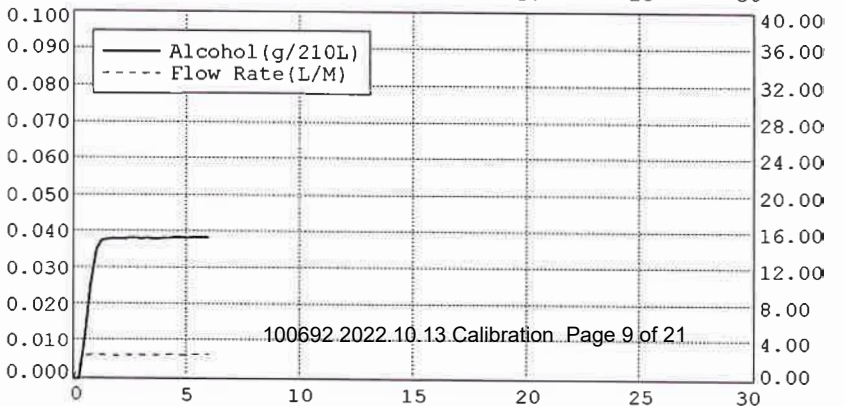
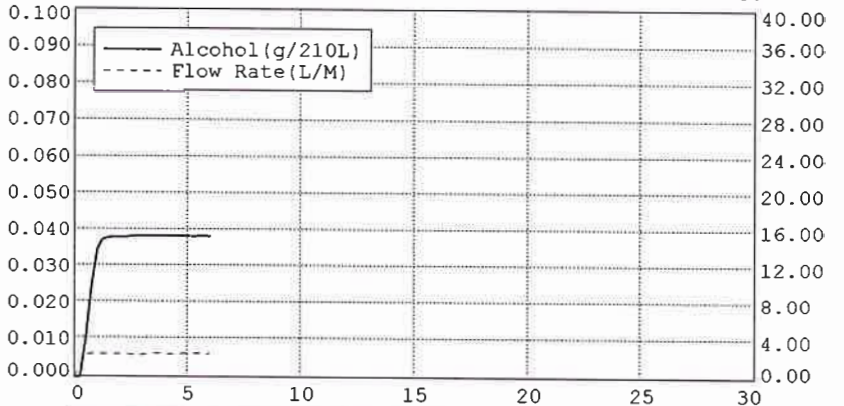
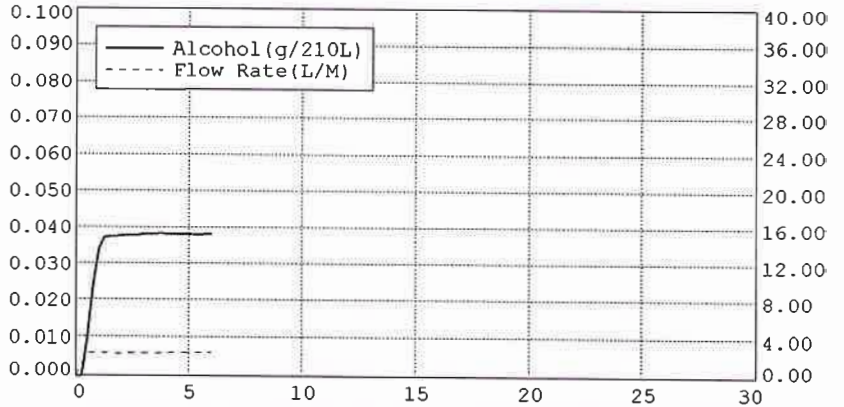
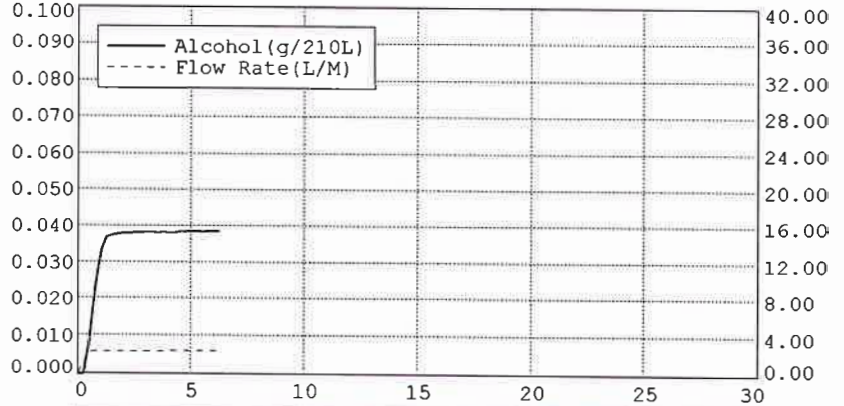
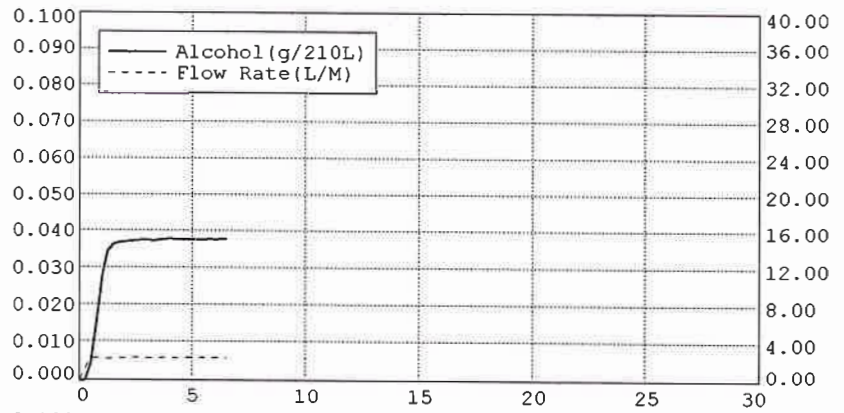
Date: 10/12/2022
Time: 13:01:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.53: 0.039
LOT #: AG111710
EXPIRATION: 04/27/2023
TANK PRESSURE: 136 psi

BLANK TEST	0.000	13:02
INTERNAL STANDARD	VERIFIED	13:02
EXTERNAL STANDARD	0.039	13:03
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.040	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.039	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.039	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.039	13:07
BLANK TEST	0.000	13:08

Average = 0.0392
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100692

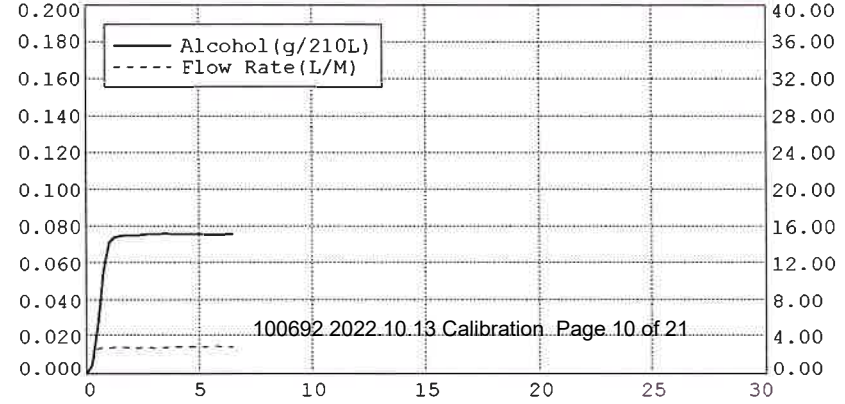
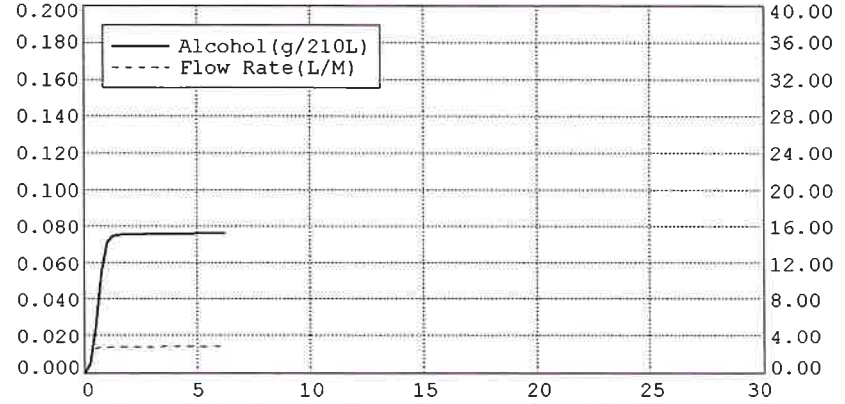
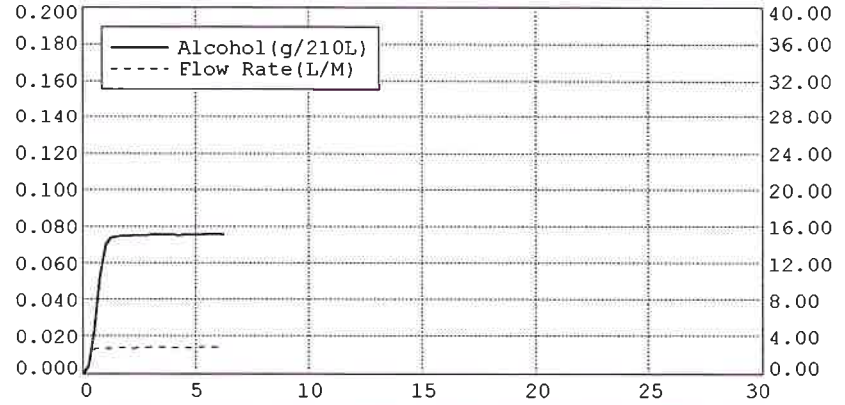
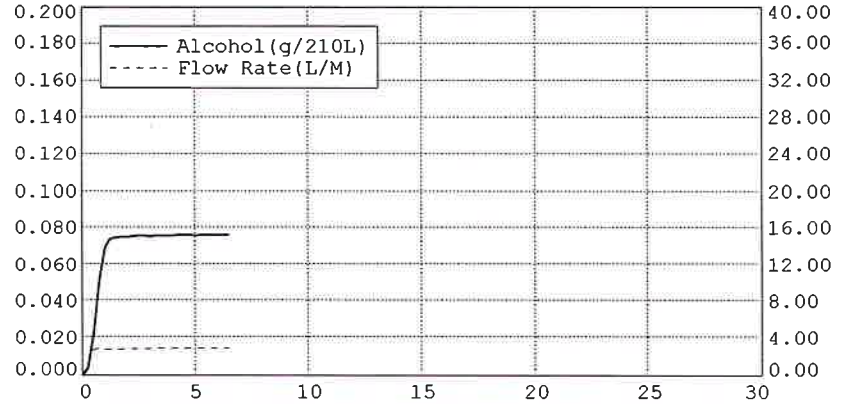
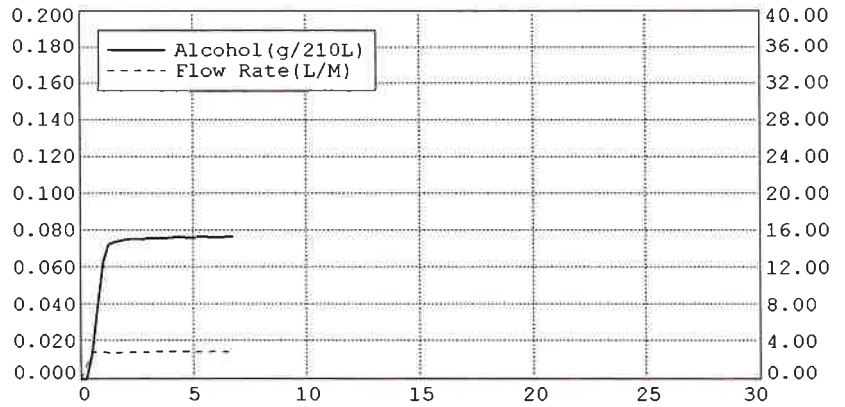
Date: 10/12/2022
Time: 13:09:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.52: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 791 psi

BLANK TEST	0.000	13:10
INTERNAL STANDARD	VERIFIED	13:10
EXTERNAL STANDARD	0.077	13:11
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.077	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.077	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.077	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.077	13:15
BLANK TEST	0.000	13:16

Average = 0.0770
Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100692

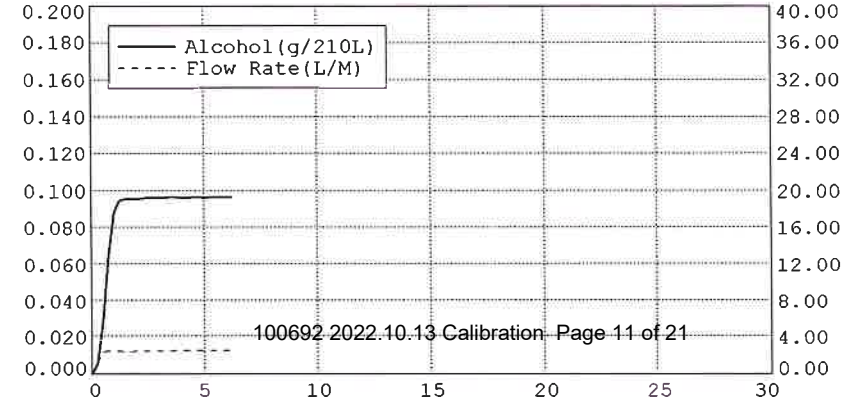
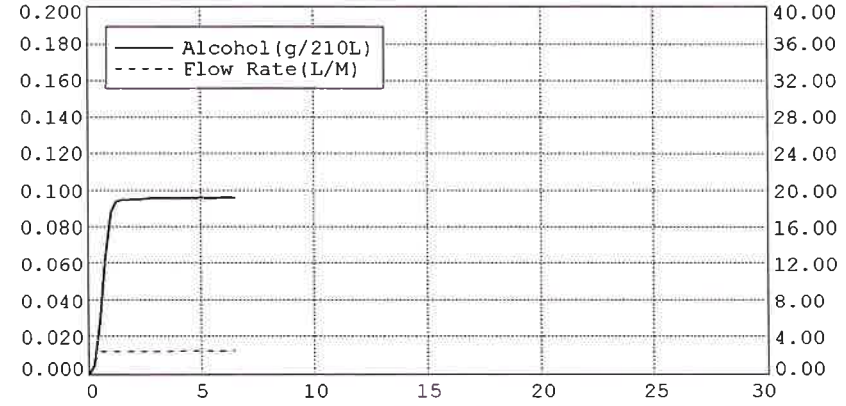
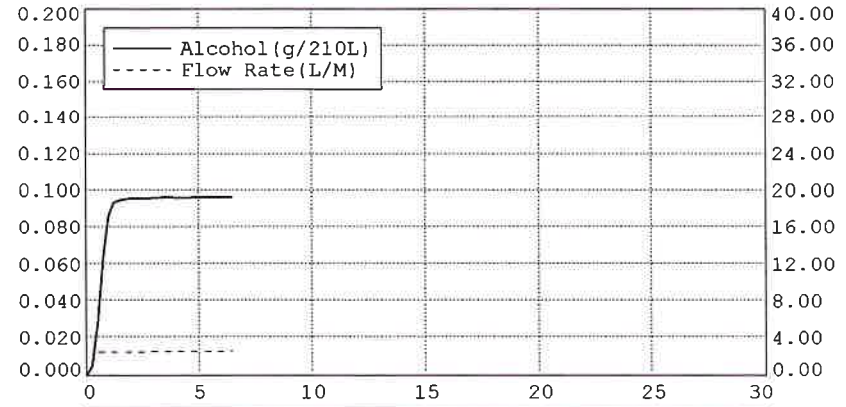
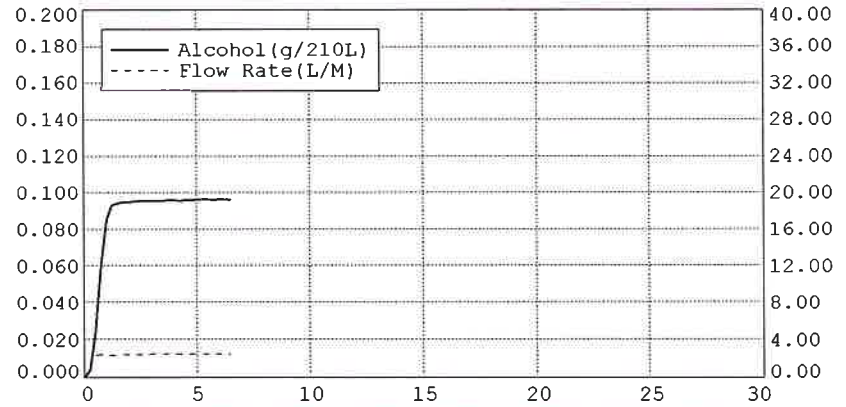
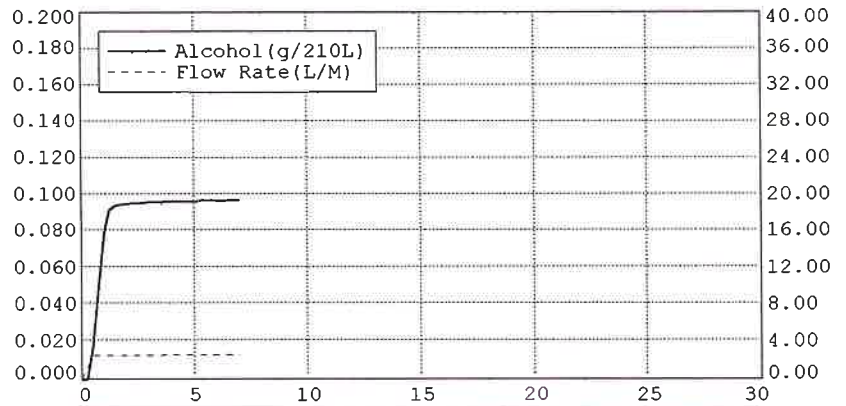
Date: 10/12/2022
 Time: 13:19:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.52: 0.099
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 203 psi

BLANK TEST	0.000	13:20
INTERNAL STANDARD	VERIFIED	13:20
EXTERNAL STANDARD	0.097	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.097	13:22
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.097	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.097	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.097	13:25
BLANK TEST	0.000	13:26

Average = 0.0970
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100692

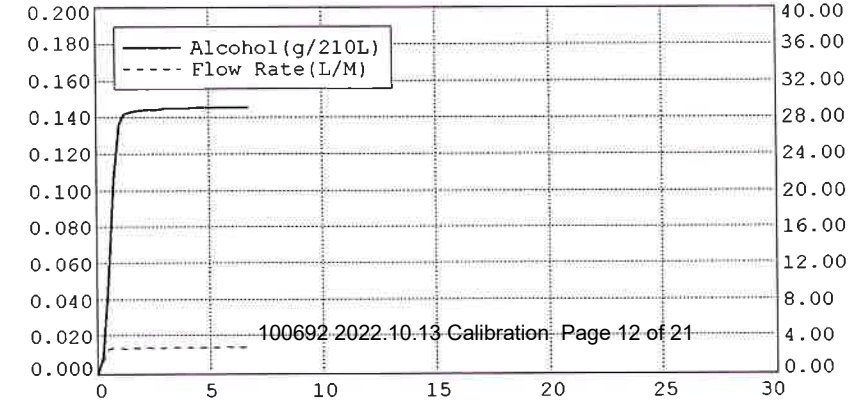
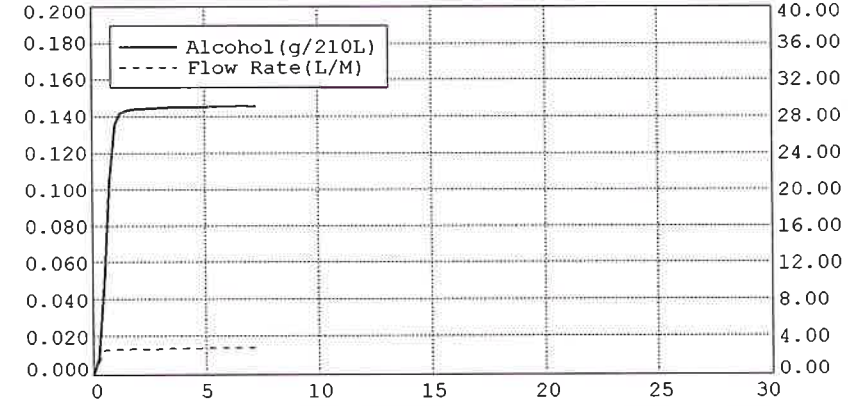
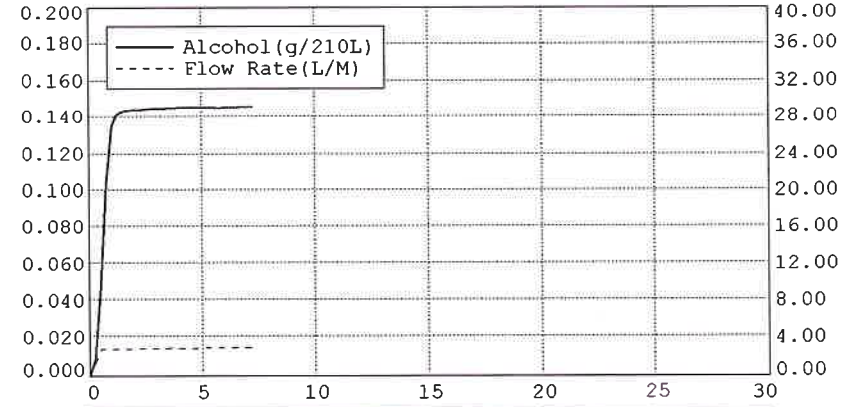
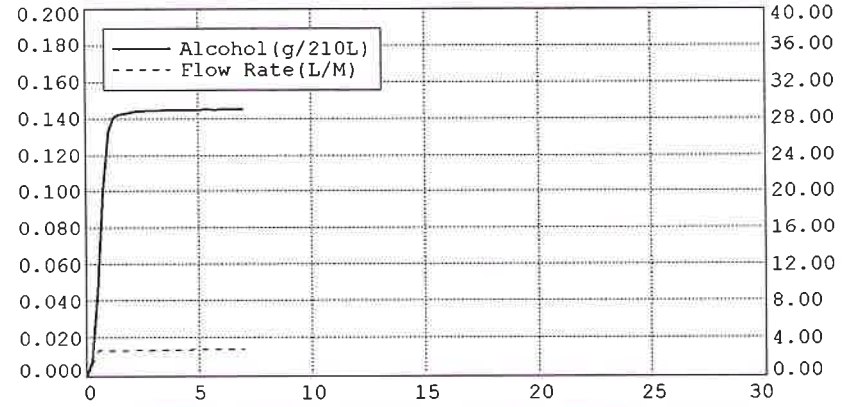
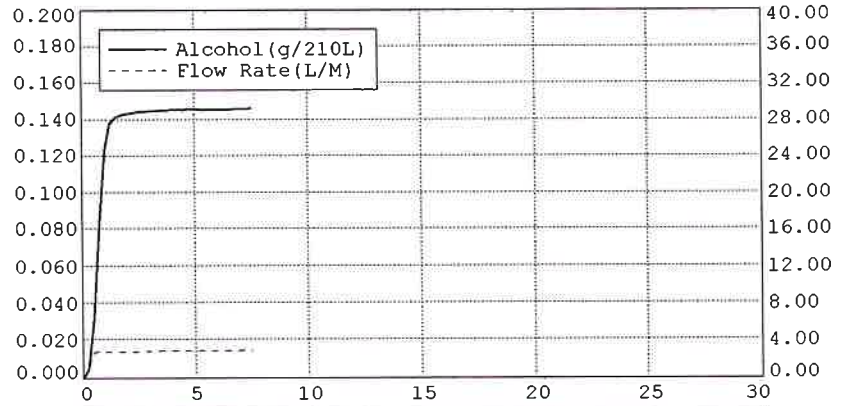
Date: 10/12/2022
 Time: 13:27:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.150
 TARGET AT 29.52: 0.148
 LOT #: AG134205
 EXPIRATION: 12/08/2023
 TANK PRESSURE: 797 psi

BLANK TEST	0.000	13:28
INTERNAL STANDARD	VERIFIED	13:28
EXTERNAL STANDARD	0.146	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.146	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.146	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.146	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.146	13:33
BLANK TEST	0.000	13:34

Average = 0.1460
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100692

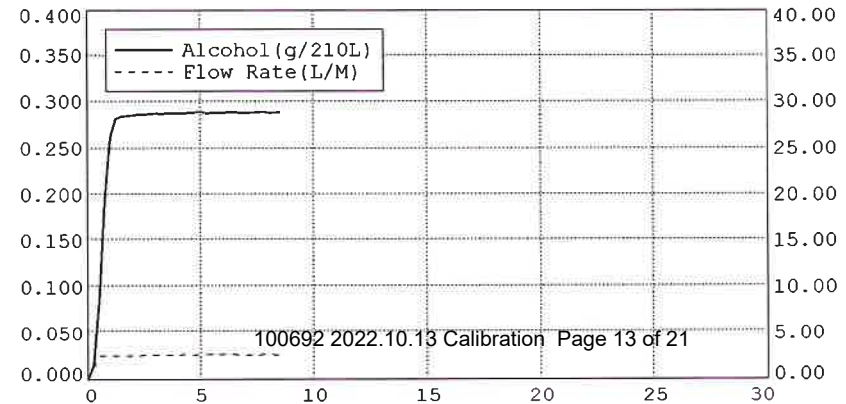
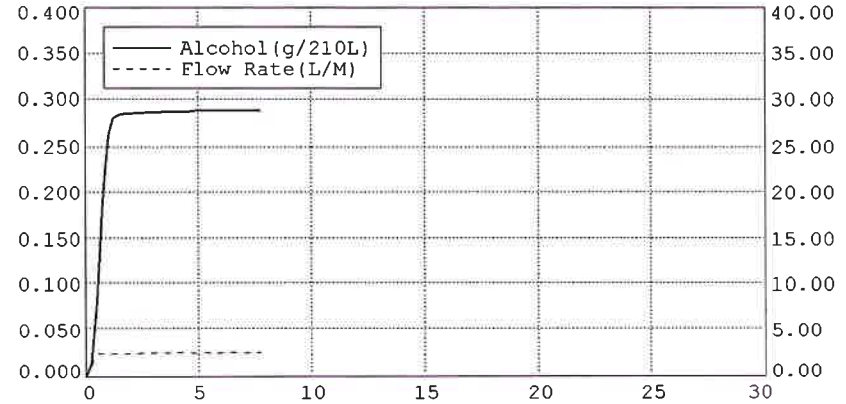
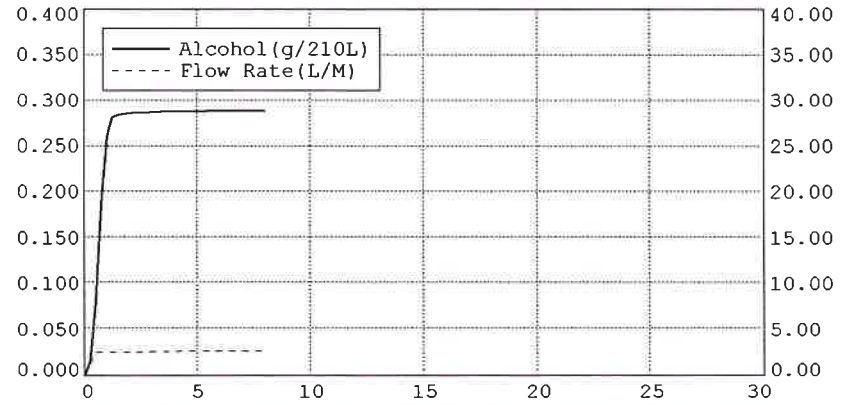
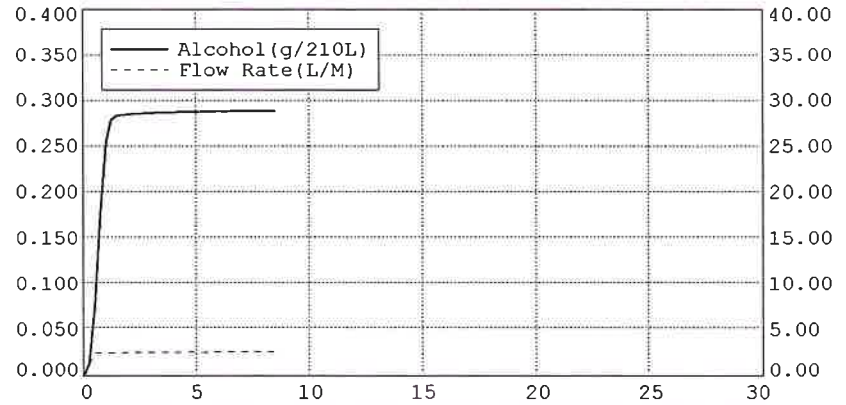
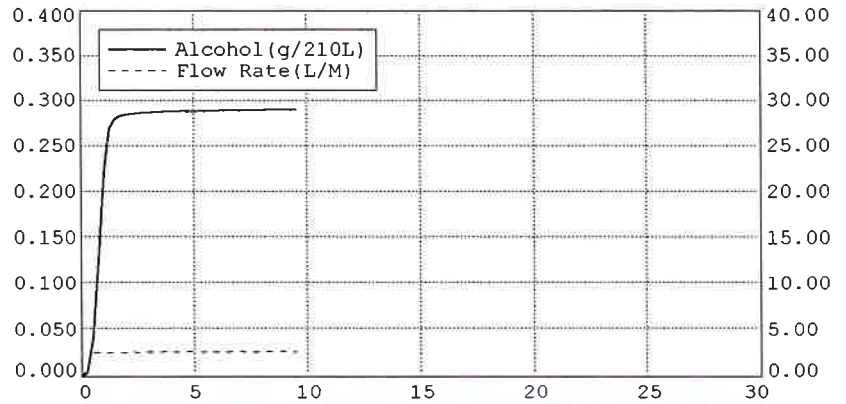
Date: 10/12/2022
 Time: 13:37:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 29.52: 0.296
 LOT #: AG130502
 EXPIRATION: 11/01/2023
 TANK PRESSURE: 252 psi

BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
EXTERNAL STANDARD	0.290	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.289	13:40
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.289	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.289	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.289	13:43
BLANK TEST	0.000	13:44

Average = 0.2892
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100692

Date: 10/12/2022
Time: 13:51:23

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

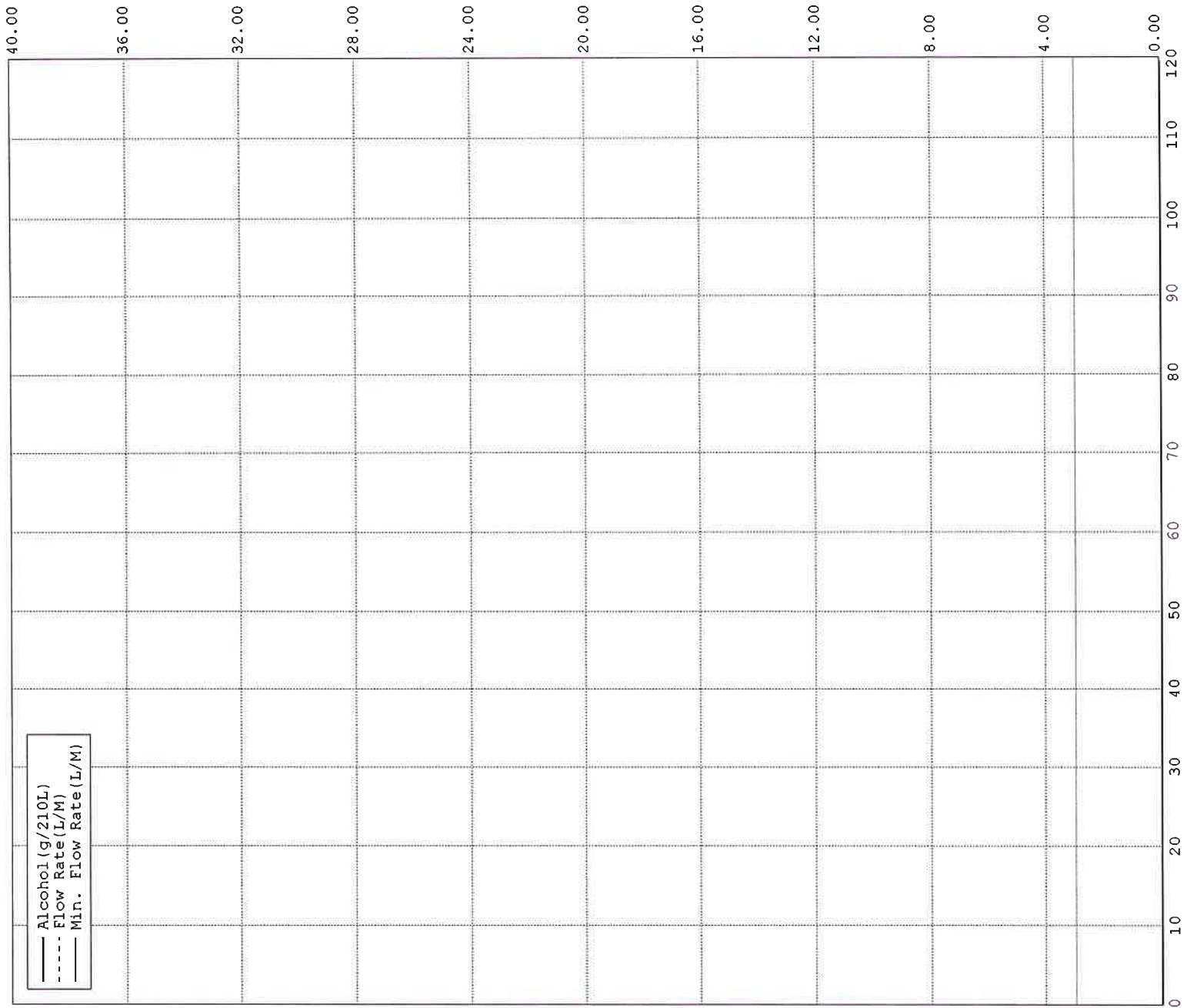
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.50: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 13:52
BLANK TEST 0.000 13:52
INTERNAL STANDARD VERIFIED 13:52
EXTERNAL STANDARD 0.078 13:52
BLANK TEST 0.000 13:53
SUBJECT SAMPLE INCOMPLETE 13:55



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100692

Date: 10/13/2022
Time: 11:16:08

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

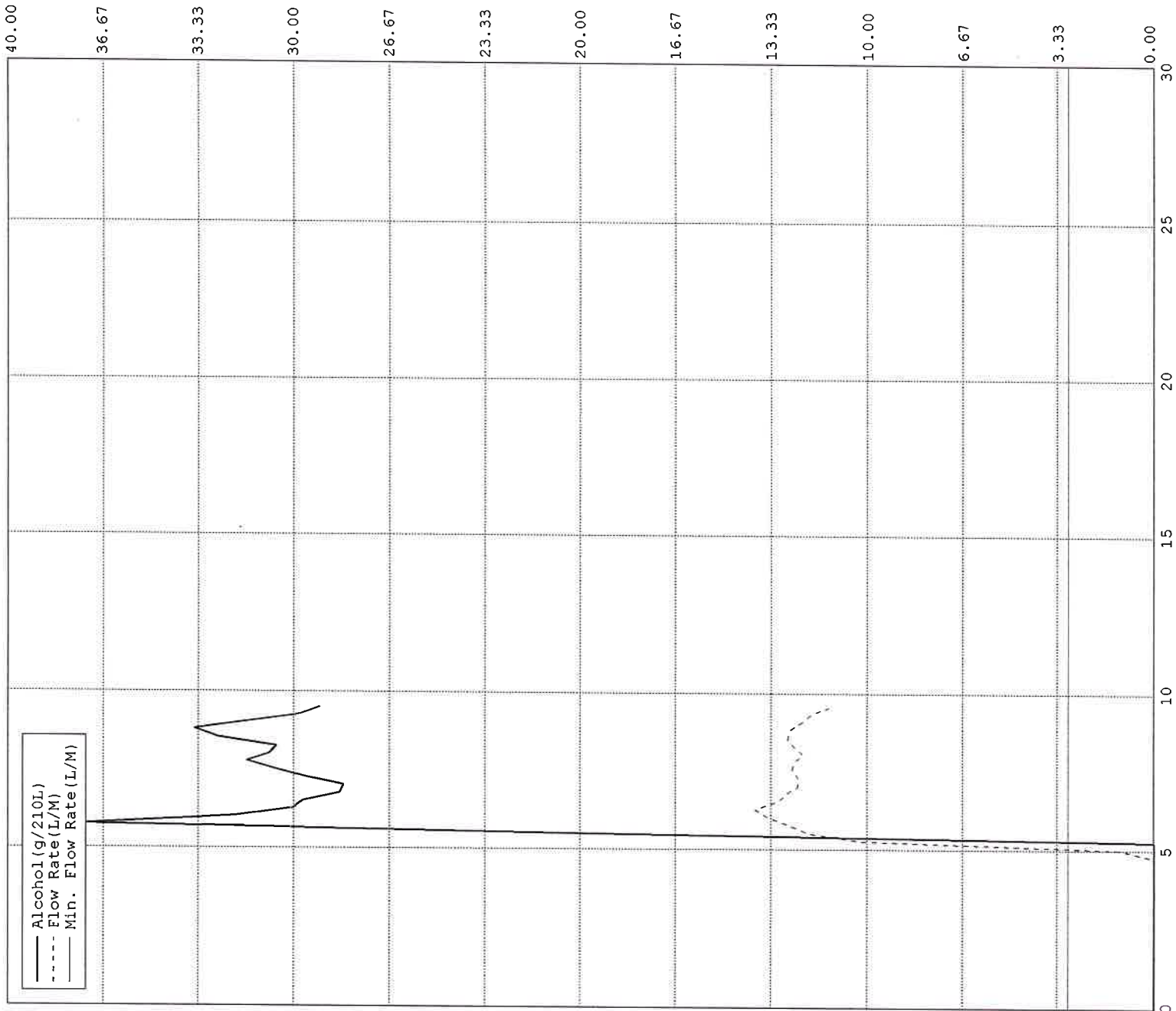
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.55: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 11:17
BLANK TEST 0.000 11:17
INTERNAL STANDARD VERIFIED 11:17
EXTERNAL STANDARD 0.077 11:18
BLANK TEST 0.000 11:18
SUBJECT SAMPLE INVALID 11:19



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100692

Date: 10/12/2022
Time: 13:57:49

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

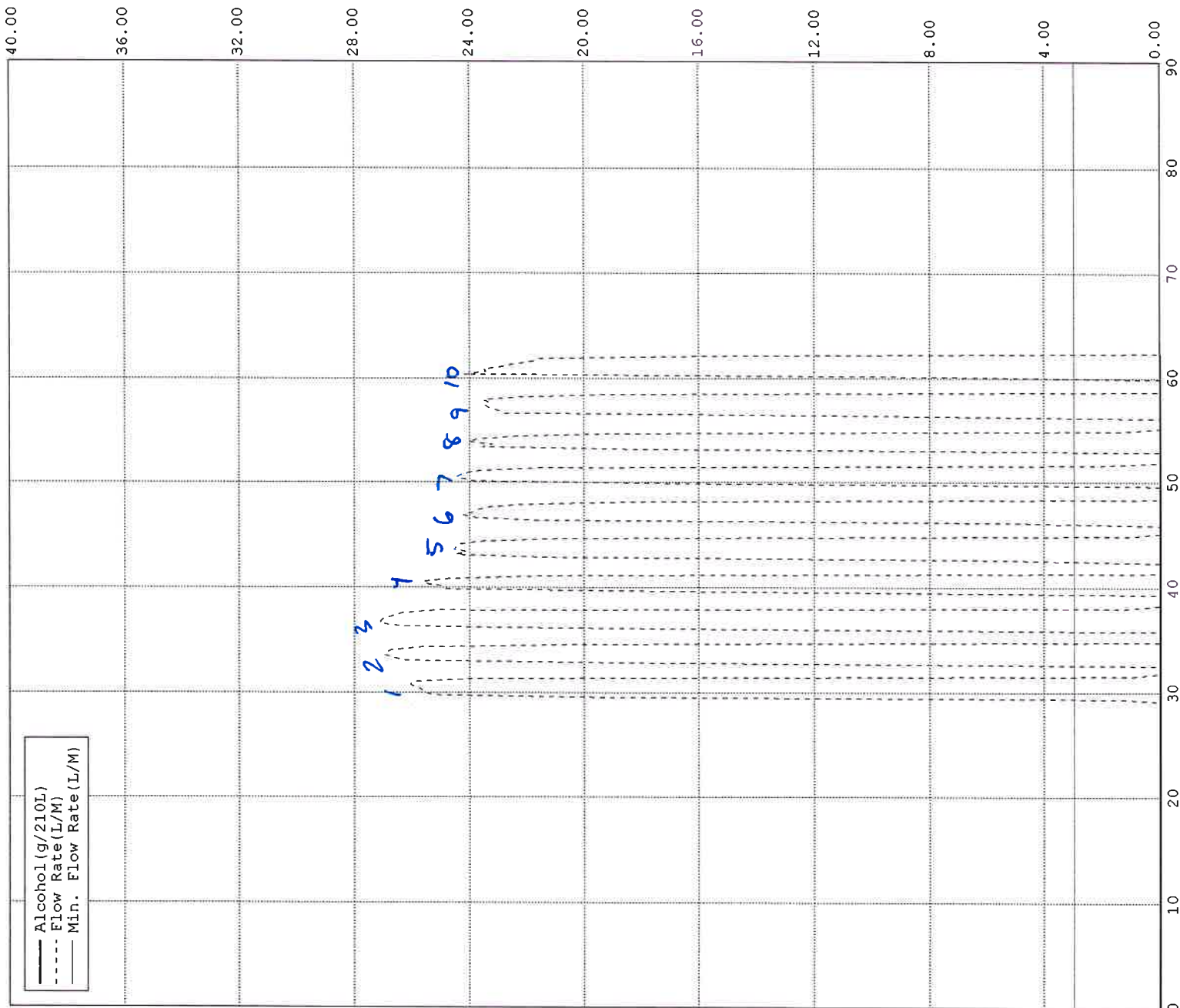
DEPT/AGENCY:
MAXIMUM ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.50: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 13:59
BLANK TEST 0.000 13:59
INTERNAL STANDARD VERIFIED 13:59
EXTERNAL STANDARD 0.078 13:59
BLANK TEST 0.000 14:00
SUBJECT SAMPLE XXX 14:01

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100692

Date: 10/13/2022
Time: 11:44:42

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

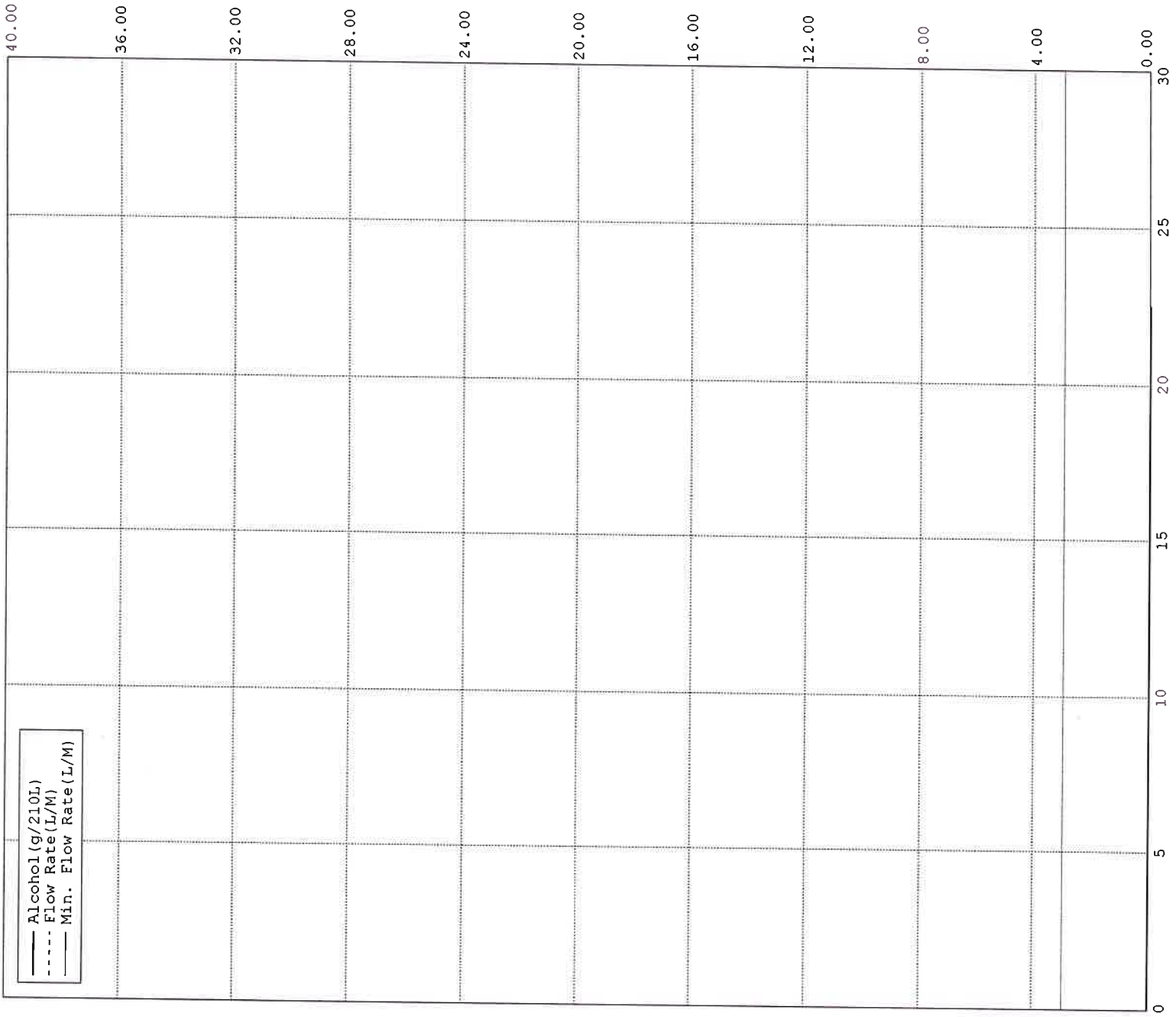
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.56: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 11:46
BLANK TEST 0.000 11:46
INTERNAL STANDARD VERIFIED 11:46
EXTERNAL STANDARD 0.077 11:46
BLANK TEST 0.000 11:47

RFI DETECTED

Dxw



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100692

Date: 10/13/2022
Time: 12:05:47

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 #: AG113402
EXPIRATION: 05/14/2023

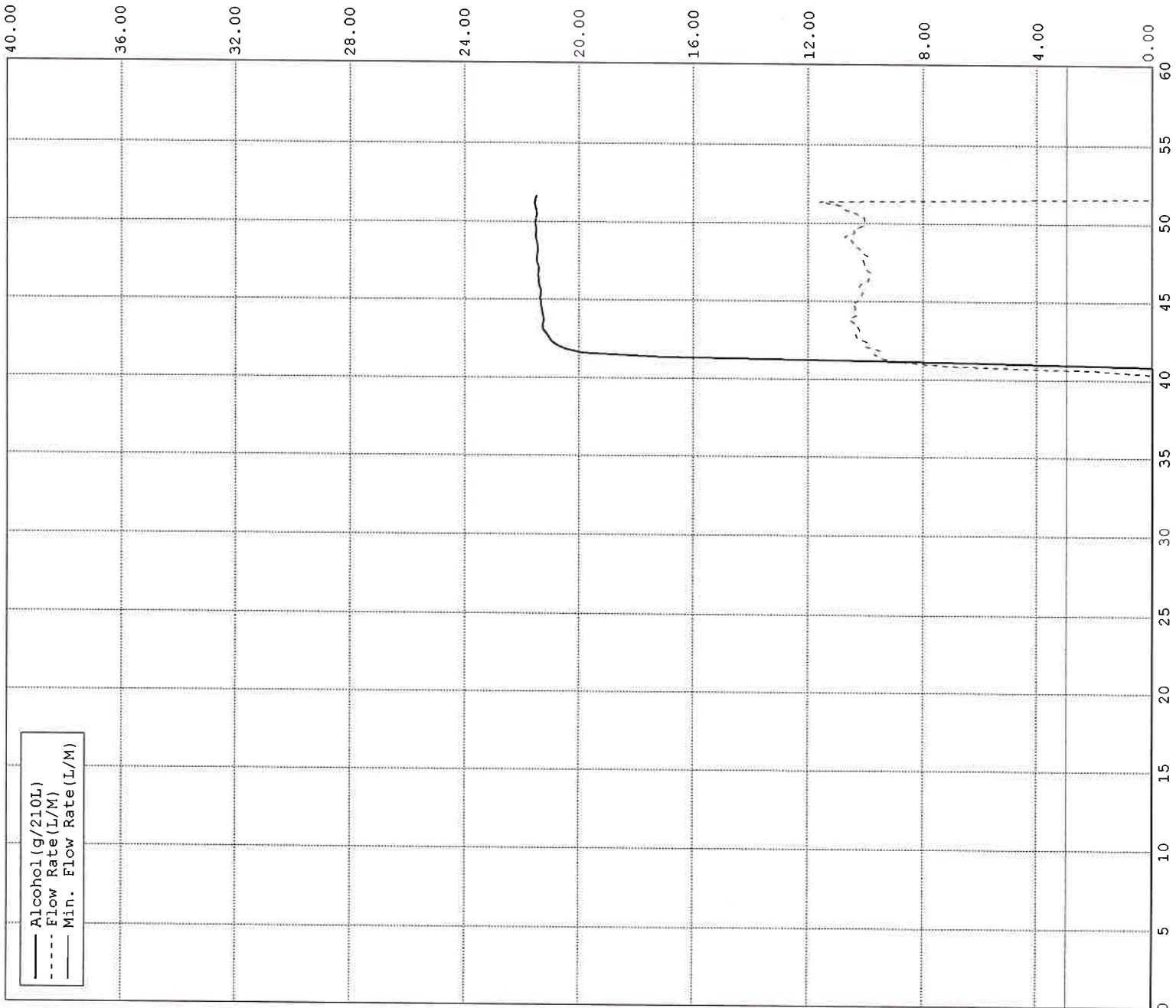
DIAGNOSTIC CHECK PASSED 12:07
BLANK TEST 0.000 12:07
INTERNAL STANDARD VERIFIED 12:07
Xg = 0.093 (0.66%)
EXTERNAL STANDARD 0.078 12:07
X[1] = 0.0778 (-0.0013) (0.0020)
BLANK TEST 0.000 12:08
SUBJECT SAMPLE XXX 12:09
X[1] = 0.1080 (-0.0200) (0.0011)

Interference Detected

Filter 2 average: -0.0020

Filter 3 average: 0.0015

DW 10/13/22



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100692

Date: 10/13/2022
Time: 11:59:48

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

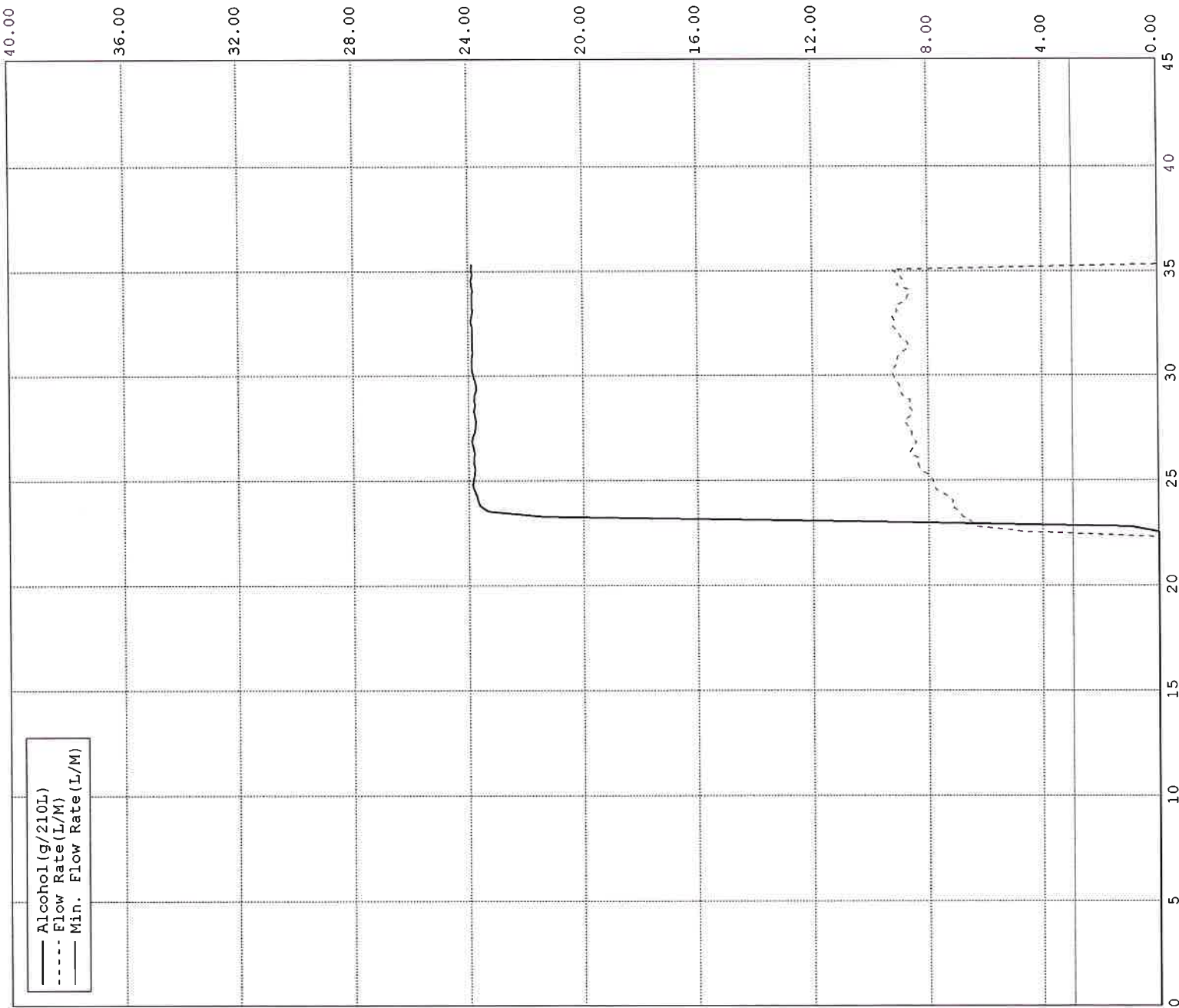
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.57: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:00
BLANK TEST	0.000	12:00
INTERNAL STANDARD	VERIFIED	12:01
$X_q = 0.093$ (0.388)	0.078	12:01
EXTERNAL STANDARD	$X[1] = 0.0775$ (-0.0024)	(0.0011) 12:02
BLANK TEST	0.000	12:02
SUBJECT SAMPLE	XXX	12:02
$X[1] = 0.1199$ (-0.0286)	(-0.0001)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100692

Date: 10/13/2022
Time: 12:12:30

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 29.57: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:13
BLANK TEST	0.000	12:13
INTERNAL STANDARD	VERIFIED	12:13
$X_q = 0.093$ (0.38%)		
EXTERNAL STANDARD	0.078	12:13
$X[1] = 0.0775$ (-0.0020)	(0.0017)	
BLANK TEST	0.000	12:14
SUBJECT SAMPLE (Vol=1.81L)	0.094	12:15
$X[1] = 0.0943$ (-0.0015)	(0.0005)	
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.077	12:16
$X[1] = 0.0771$ (-0.0021)	(0.0012)	
BLANK TEST	0.000	12:17

DW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100692

Date: 10/13/2022
Time: 15:37:56

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 29.64: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	15:38
BLANK TEST	0.000	15:39
INTERNAL STANDARD	VERIFIED	15:39
EXTERNAL STANDARD	0.078	15:39
BLANK TEST	0.000	15:40
SUBJECT SAMPLE (Vol=2.94L)	0.000	15:40
BLANK TEST	0.000	15:41
EXTERNAL STANDARD	0.078	15:42
BLANK TEST	0.000	15:42

