



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: 100395

Report Issue Date: 12/29/2022
Date Received: Not Recorded
Condition of Item: Not Recorded

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

Start Date 12/20/2022 - As Left - End Date 12/21/2022

As Left Conditions - Barometric Pressure (inHg): 30.06 Barometer Used: Fisher S/N 221250180 Temperature (C): 19.6 Relative Humidity (%): 3

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	0.020	0.020	0.020	0.020	0.020	+/- 0.002
0.040	0.040	AG111710	0.040	0.040	0.040	0.040	0.040	0.040	+/- 0.003
0.080	0.080	AG113402	0.080	0.079	0.080	0.079	0.080	0.080	+/- 0.003
0.100	0.100	AG211003	0.099	0.099	0.099	0.099	0.099	0.099	+/- 0.003
0.150	0.151	AG134205	0.150	0.149	0.150	0.150	0.150	0.150	+/- 0.004
0.300	0.301	AG130502	0.297	0.296	0.296	0.295	0.295	0.296	+/- 0.008

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.

Technically and administratively reviewed by Colleen O'Bryant on 12/29/2022

Brandi M Barnett

Results authorized by Brandi Barnett on 12/27/2022
brandi.barnett@alaska.gov

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100395 Analyst: Brandi Barnett Start Date: 12/20/22

- Diagnostic Test (attached) Internal Standard value \leq 3.00%
 Adjust voltages, if needed

- Lamp (2.60 V Maximum) Chopper Frequency
 Bias Detector Voltage
 Cooler (2.00 V Maximum) (-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: 221250180 exp: 2/14/2024 Barometer 12/20/22 8MB

Barometric Pressure (in Hg): 30.06 Temperature (C): 19.6 Relative Humidity (%) 3

Linearity Test (attached)

0.020g/210L Mnf:	<u>Airgas</u>	Lot: <u>AG 217902</u>	Exp: <u>6/28/24</u>
0.040g/210L Mnf:	<u>Airgas</u>	Lot: <u>AG 111710</u>	Exp: <u>4/27/23</u>
0.080g/210L Mnf:	<u>Airgas</u>	Lot: <u>AG 113402</u>	Exp: <u>5/14/23</u>
0.100g/210L Mnf:	<u>Airgas</u>	Lot: <u>AG 211003</u>	Exp: <u>4/25/24</u>
0.150g/210L Mnf:	<u>Airgas</u>	Lot: <u>AG 134205</u>	Exp: <u>12/08/23</u>
0.300g/210L Mnf:	<u>Airgas</u>	Lot: <u>AG 130502</u>	Exp: <u>11/01/23</u>

Functional Tests (attached)

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

Acetone Mnf: Lifeloc Lot: 21KP41172 Level: 0.100 Exp: 11/9/23

Simulator S/N: DR5298 Verification Performed?

Isopropanol Mnf: Lifeloc Lot: 21KP41172 Level: 0.100 Exp: 11/9/23

Simulator S/N: SD1198 Verification Performed?

Neg. Control Mnf: Lifeloc Lot: 21KP41172 Level: 0.100 Exp: 11/9/23

Simulator S/N: SD1202 Verification Performed?

Calibrated External Thermometer:

Thermometer S/N: 2109 58384 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: 12/21/22

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 12/20/2022
Time: 07:53:36

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 = 44.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.80 V PASSED
(1.08 V - 2.52 V)
Cooler Voltage = 1.69 V PASSED
(1.01 V - 2.37 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 530 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.1 in

PUMP INFO

Flow Rate = 4.406 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.003 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 0.09% PASSED
(0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100395

Date: 12/20/2022
Time: 8:14 AM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 44.4°C

Current Barometer 30.1 in
Volume (Ltr) 1.55

Settings

Lamp: 1.83 V
Bias: 79 V
Cooler: 1.77 V
Chopper: 530 Hz

Voltages (V)

Flow: 1.04 V
Detector: 0.095 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 09/01/2022
Time: 08:56:26

OPERATOR NAME:
TATIANA MALNOSKE
CERTIFICATE #: 10437

Ca = 0.1000
CAL = 0.969568 0.800 <= CAL < 1.200
b1 = 0.0010 0.0000 <= b1 < 0.0040
b2 = 0.0056 0.0010 <= b2 < 0.0100
b3 = 0.0007 0.0000 <= b3 < 0.0040
Xq = 0.0929 0.0500 <= Xq < 0.2000
a21 = 1.164000 1.050 <= a21 < 1.300
a31 = 0.372922 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 12/20/2022
Time: 08:17:17

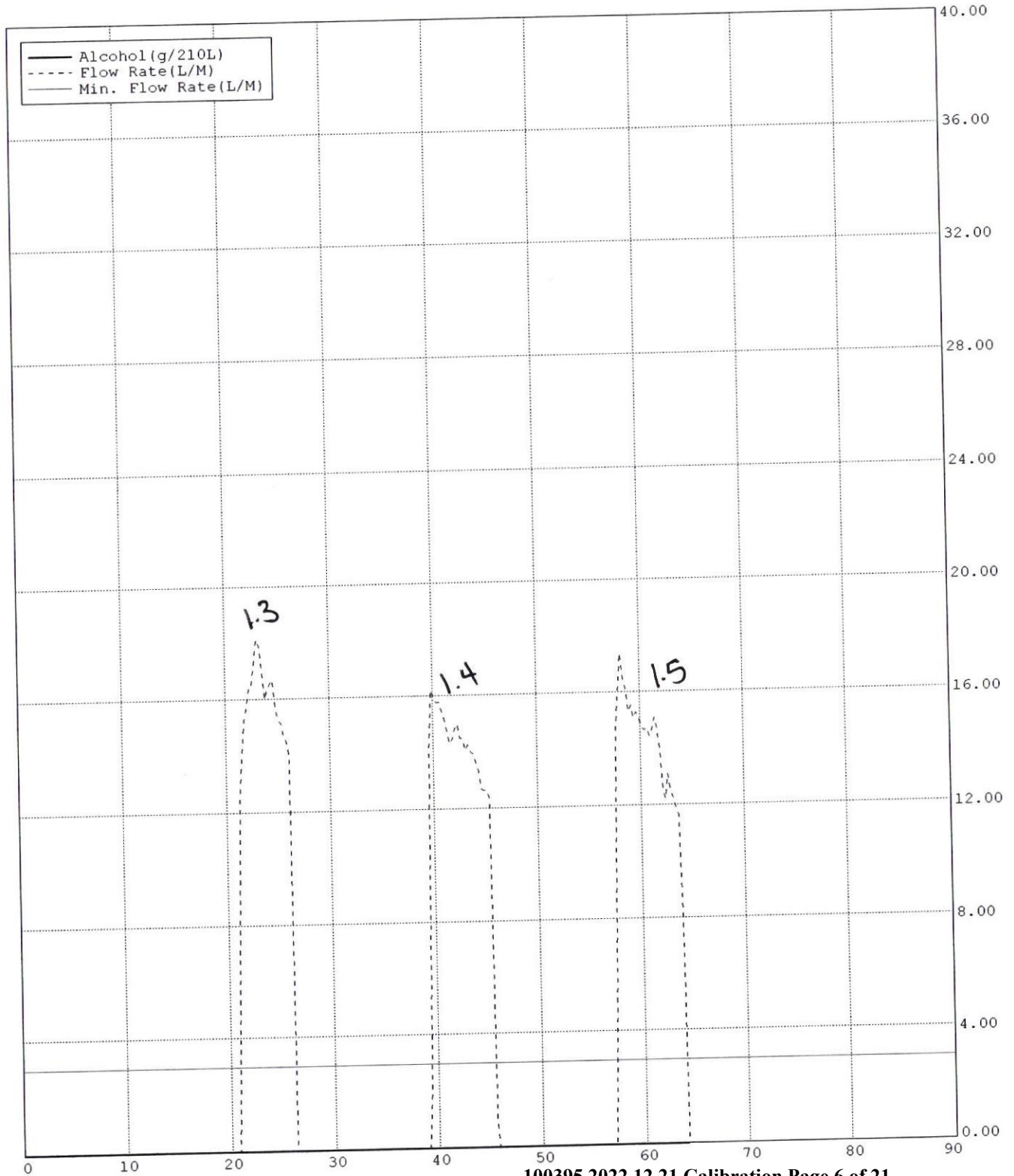
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.06: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	08:20
BLANK TEST	0.000	08:20
INTERNAL STANDARD	VERIFIED	08:20
EXTERNAL STANDARD	0.079	08:20
BLANK TEST	0.000	08:21
SUBJECT SAMPLE (Vol=1.56L)	0.000	08:22
BLANK TEST	0.000	08:23
EXTERNAL STANDARD	0.080	08:23
BLANK TEST	0.000	08:24



LINEARITY CHECK

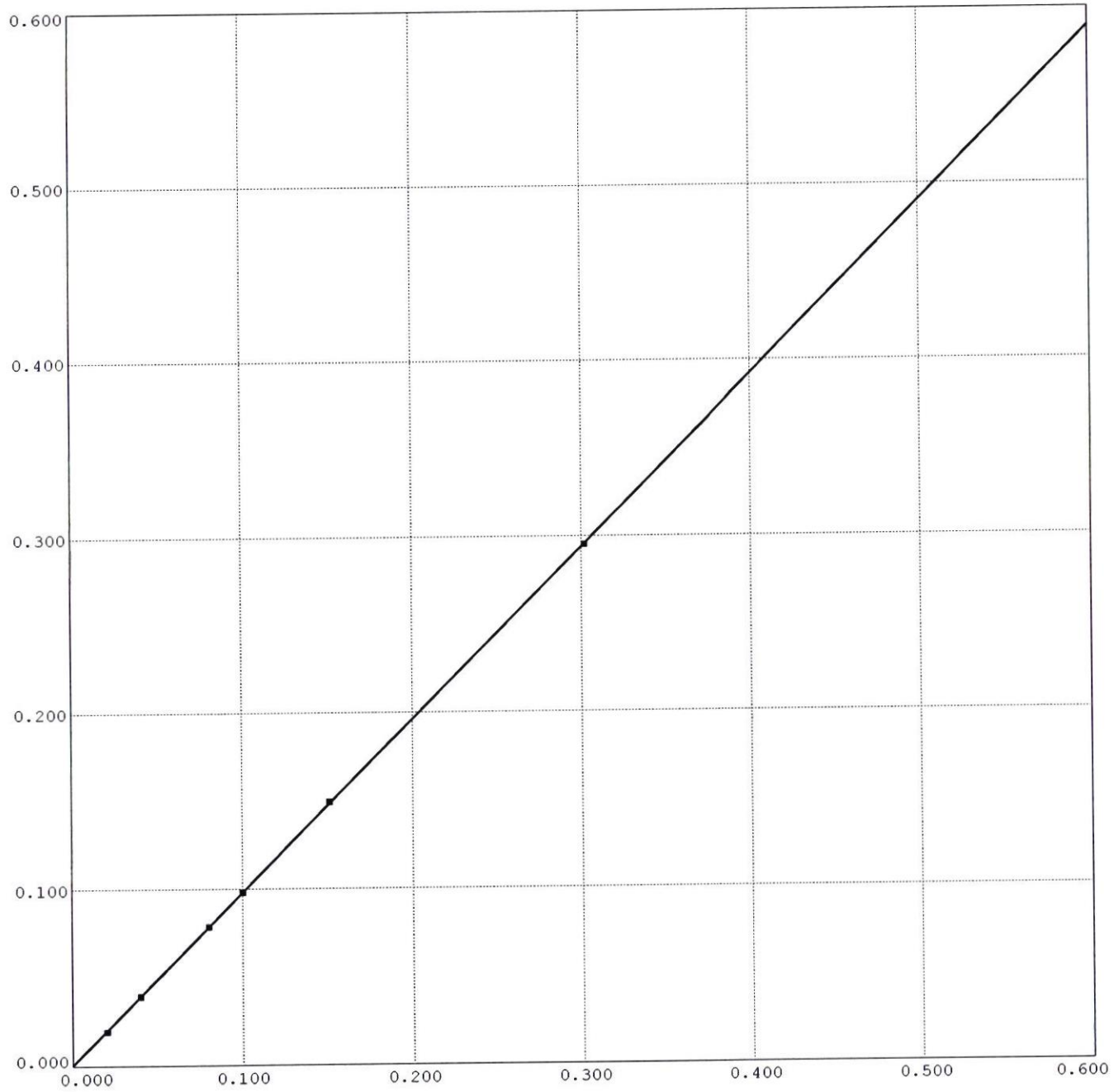
Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 12/20/2022
Time: 09:04:36

SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0400	0.0000
0.080	0.0796	0.0005
0.100	0.0990	0.0000
0.151	0.1498	0.0004
0.301	0.2958	0.0008

SLOPE = 0.981174
R² = 0.999979



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100395

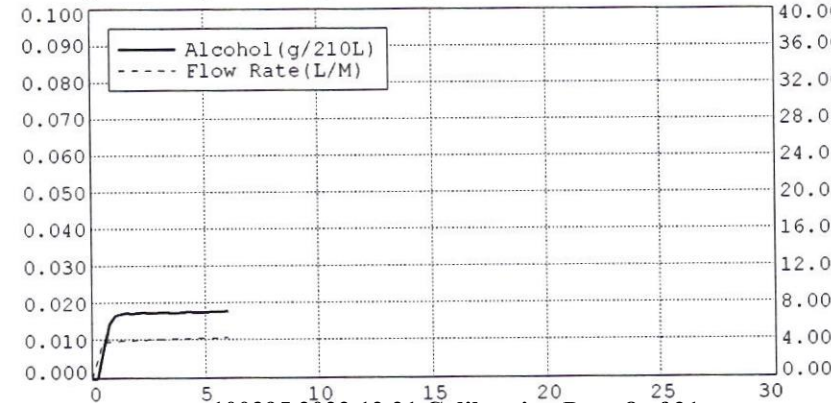
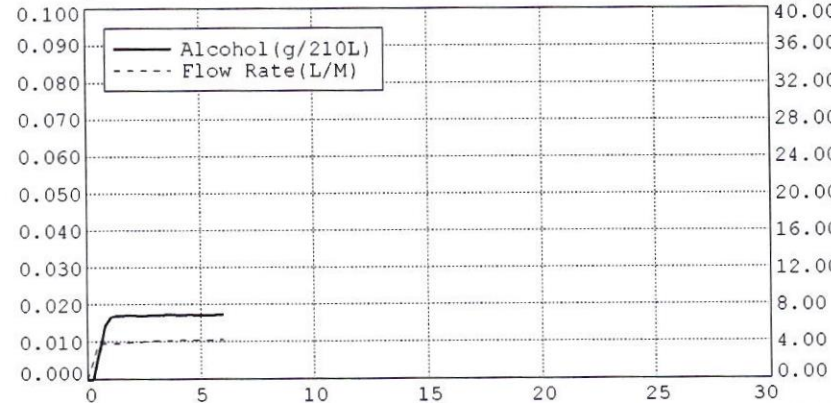
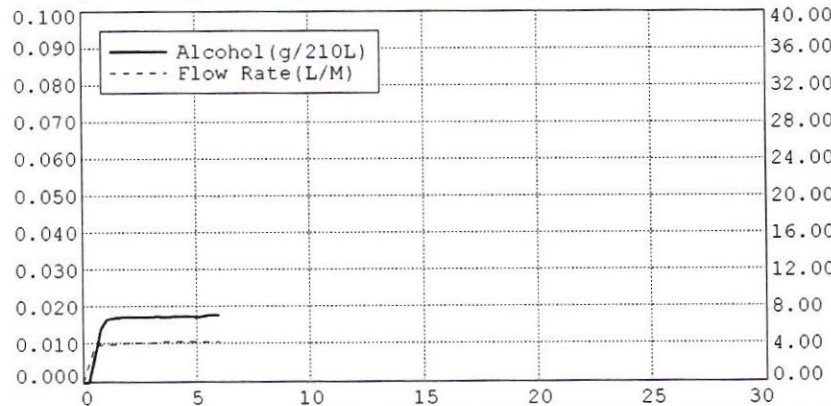
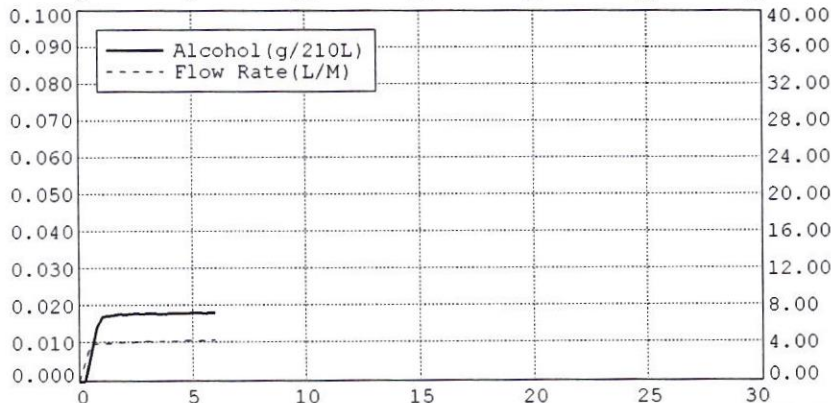
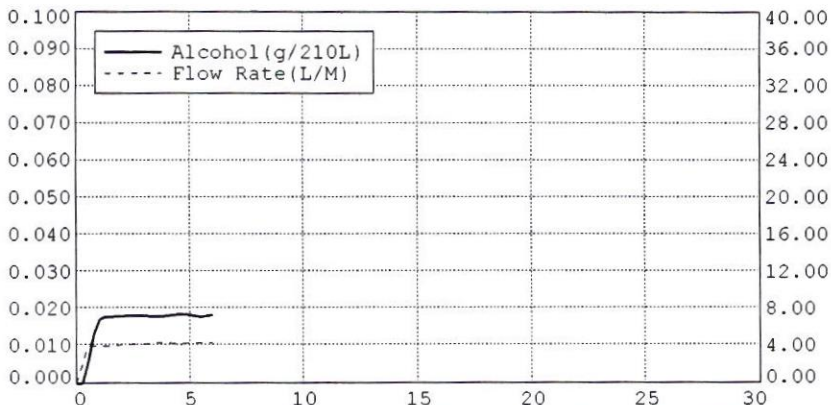
Date: 12/20/2022
 Time: 09:04:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 30.06: 0.020
 LOT #: AG217902
 EXPIRATION: 06/28/2024
 TANK PRESSURE: 1062 psi

BLANK TEST	0.000	09:06
INTERNAL STANDARD	VERIFIED	09:06
EXTERNAL STANDARD	0.020	09:06
BLANK TEST	0.000	09:07
EXTERNAL STANDARD	0.020	09:07
BLANK TEST	0.000	09:08
EXTERNAL STANDARD	0.020	09:08
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.020	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.020	09:11
BLANK TEST	0.000	09:11

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100395

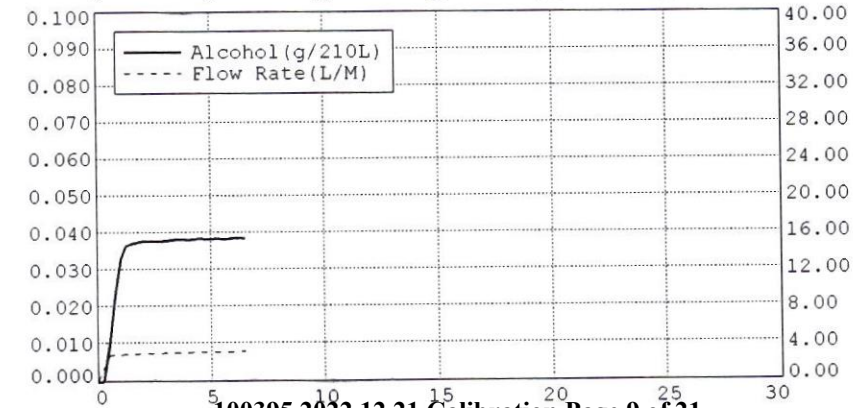
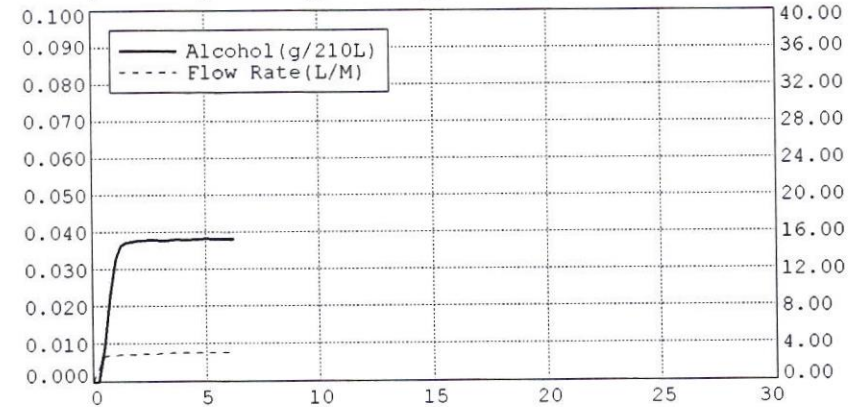
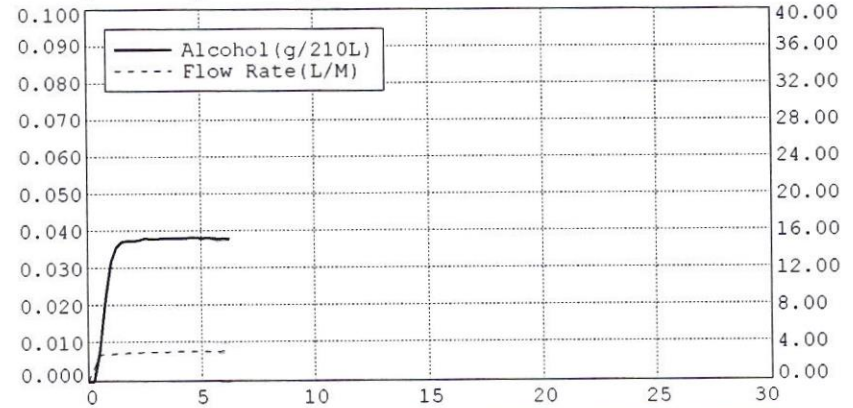
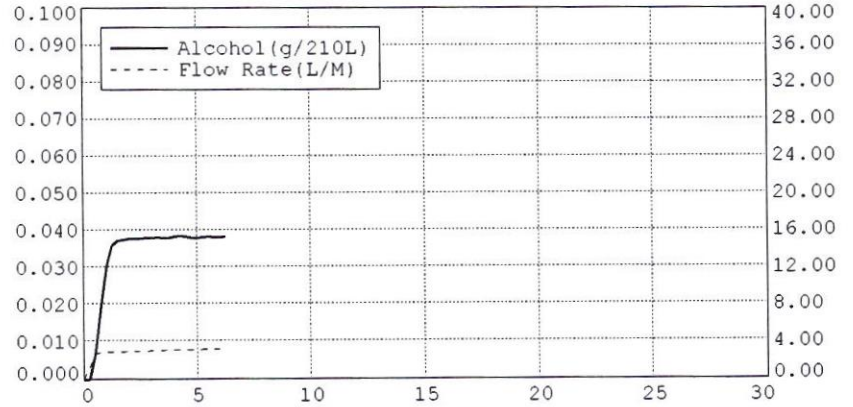
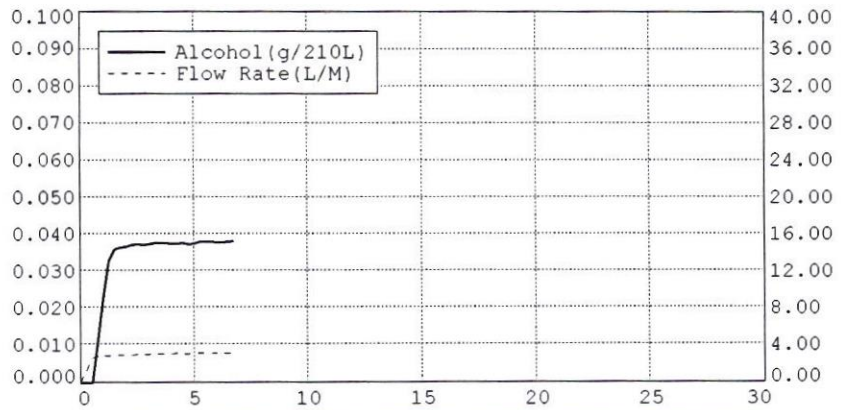
Date: 12/20/2022
 Time: 09:17:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 30.06: 0.040
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 358 psi

BLANK TEST	0.000	09:18
INTERNAL STANDARD	VERIFIED	09:18
EXTERNAL STANDARD	0.040	09:19
BLANK TEST	0.000	09:19
EXTERNAL STANDARD	0.040	09:20
BLANK TEST	0.000	09:21
EXTERNAL STANDARD	0.040	09:21
BLANK TEST	0.000	09:22
EXTERNAL STANDARD	0.040	09:22
BLANK TEST	0.000	09:23
EXTERNAL STANDARD	0.040	09:23
BLANK TEST	0.000	09:24

Average = 0.0400
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100395

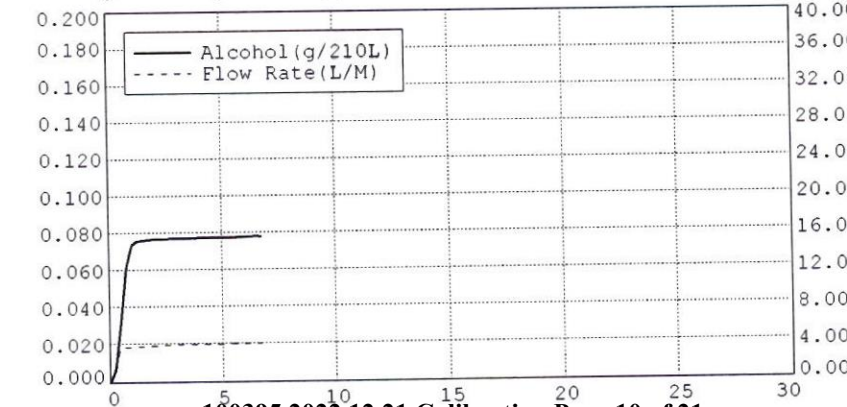
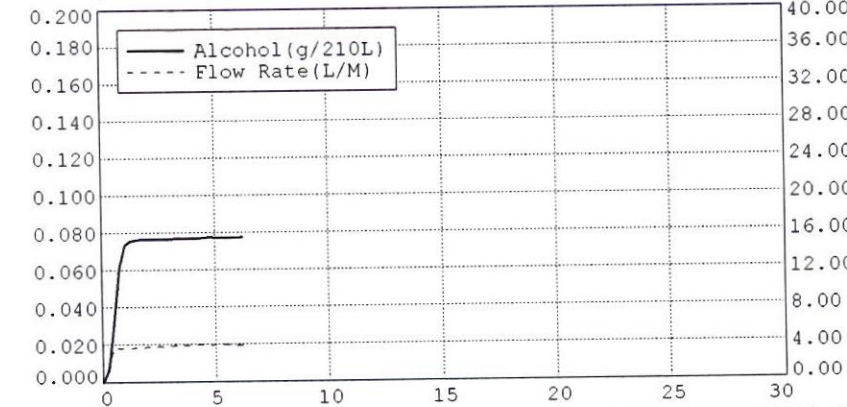
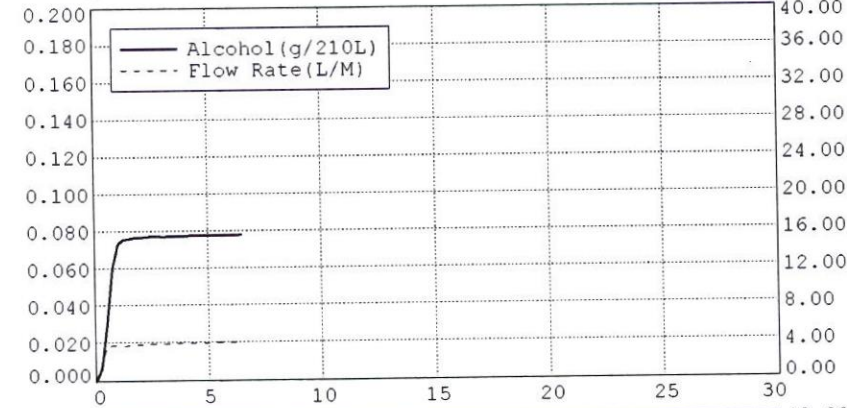
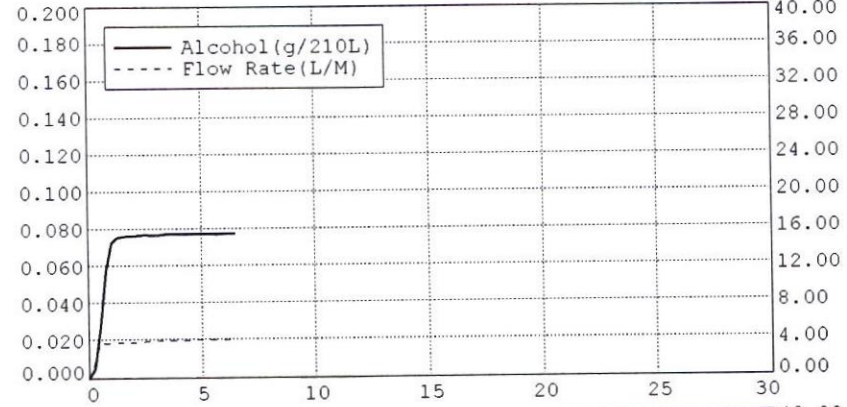
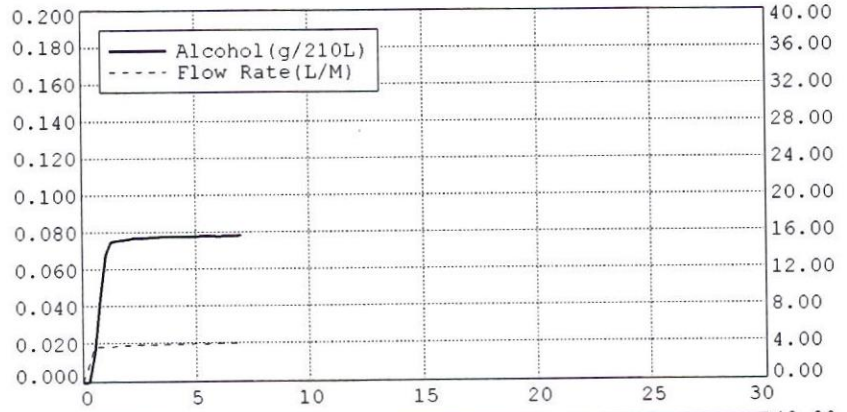
Date: 12/20/2022
Time: 09:27:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.06: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 800 psi

BLANK TEST	0.000	09:28
INTERNAL STANDARD	VERIFIED	09:28
EXTERNAL STANDARD	0.080	09:29
BLANK TEST	0.000	09:29
EXTERNAL STANDARD	0.079	09:30
BLANK TEST	0.000	09:31
EXTERNAL STANDARD	0.080	09:31
BLANK TEST	0.000	09:32
EXTERNAL STANDARD	0.079	09:32
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.080	09:33
BLANK TEST	0.000	09:34

Average = 0.0796
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100395

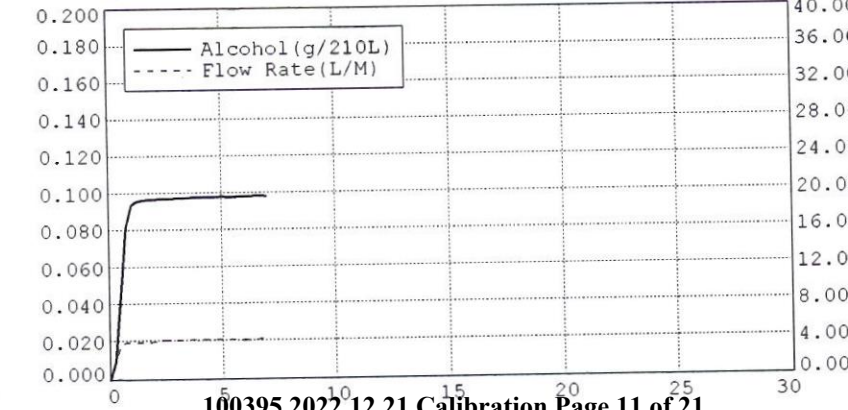
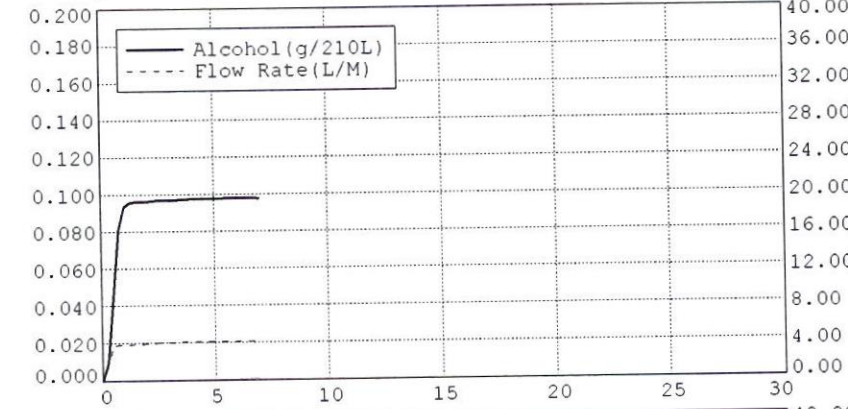
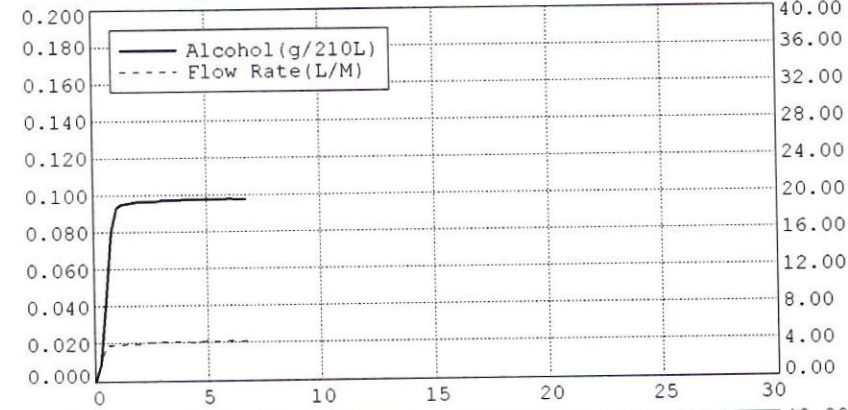
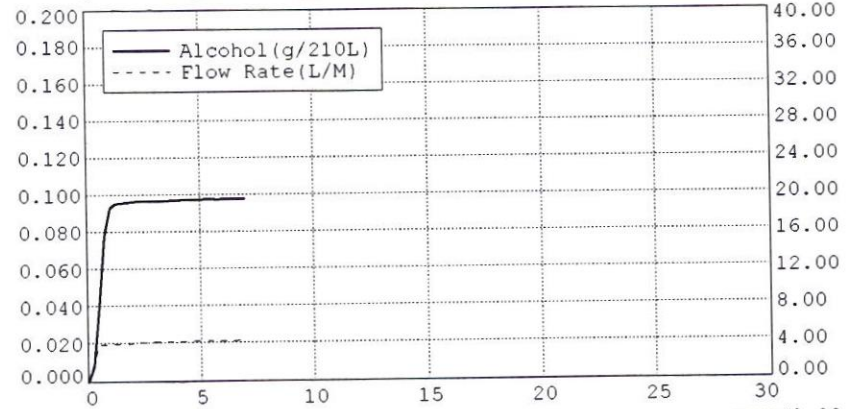
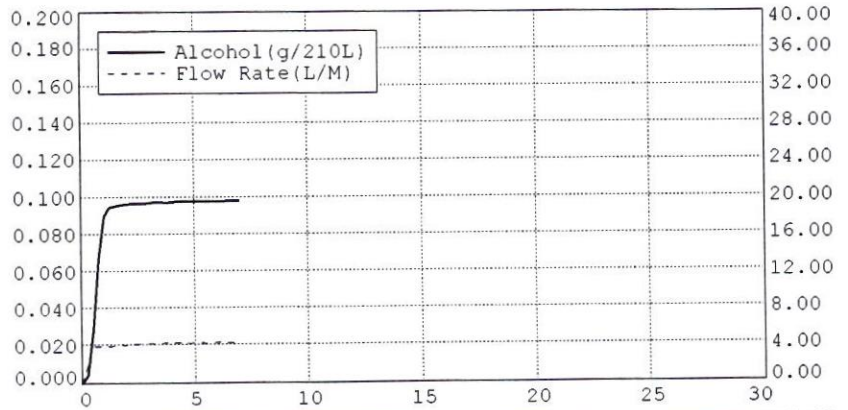
Date: 12/20/2022
Time: 09:39:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 30.07: 0.100
LOT #: AG211003
EXPIRATION: 04/25/2024
TANK PRESSURE: 1007 psi

BLANK TEST	0.000	09:41
INTERNAL STANDARD	VERIFIED	09:41
EXTERNAL STANDARD	0.099	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.099	09:42
BLANK TEST	0.000	09:43
EXTERNAL STANDARD	0.099	09:43
BLANK TEST	0.000	09:44
EXTERNAL STANDARD	0.099	09:44
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.099	09:45
BLANK TEST	0.000	09:46

Average = 0.0990
Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

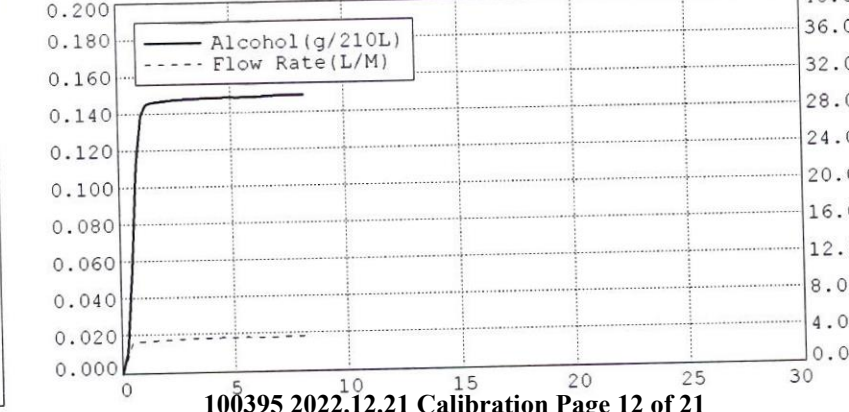
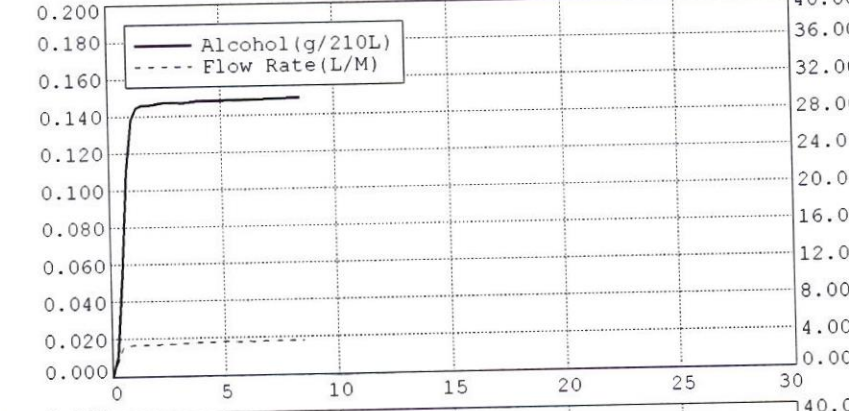
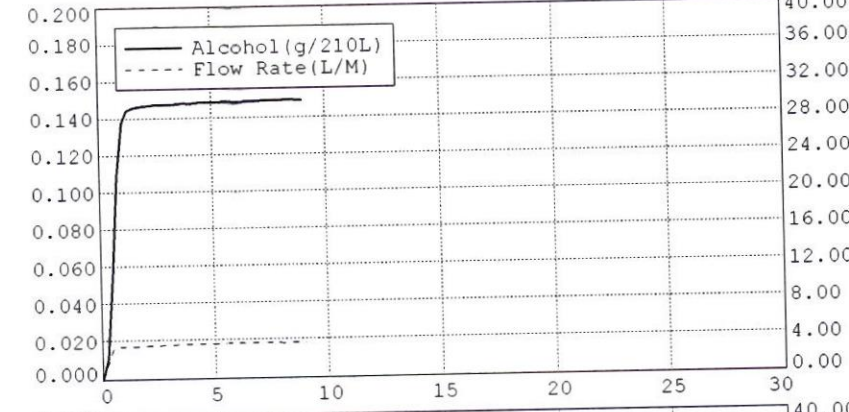
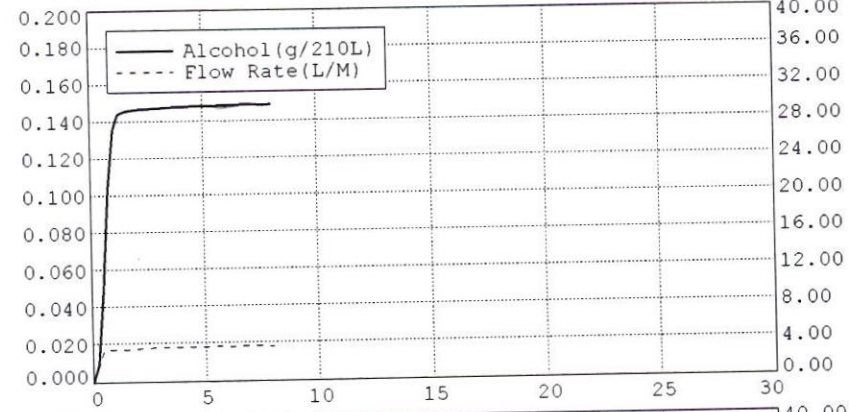
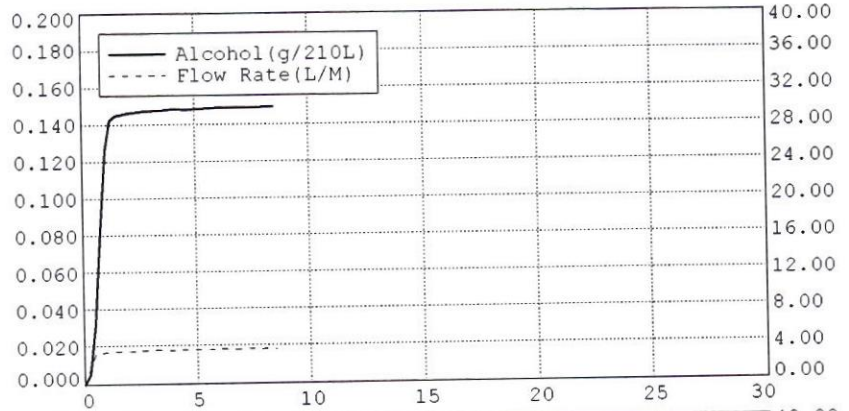
Alaska Department of Public Safety
 DATAMASTER dmt: 100395

Date: 12/20/2022
 Time: 09:48:14

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.150
 TARGET AT 30.06: 0.151
 LOT #: AG134205
 EXPIRATION: 12/08/2023
 TANK PRESSURE: 638 psi

BLANK TEST	0.000	09:49
INTERNAL STANDARD	VERIFIED	09:49
EXTERNAL STANDARD	0.150	09:49
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.149	09:50
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.150	09:52
BLANK TEST	0.000	09:52
EXTERNAL STANDARD	0.150	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.150	09:54
BLANK TEST	0.000	09:55

Average = 0.1498
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100395

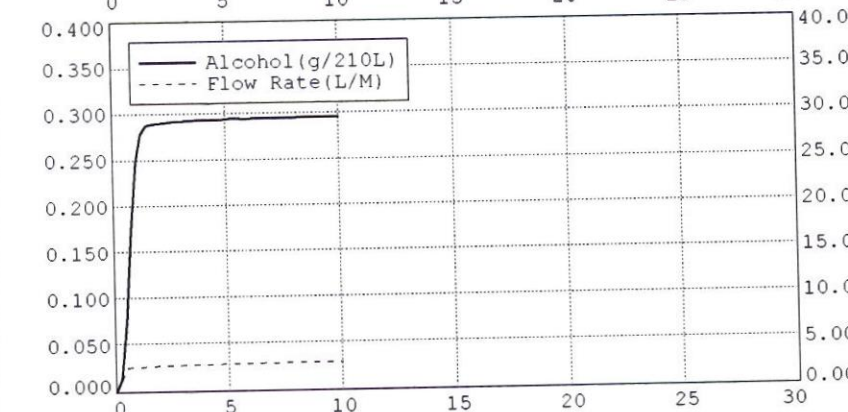
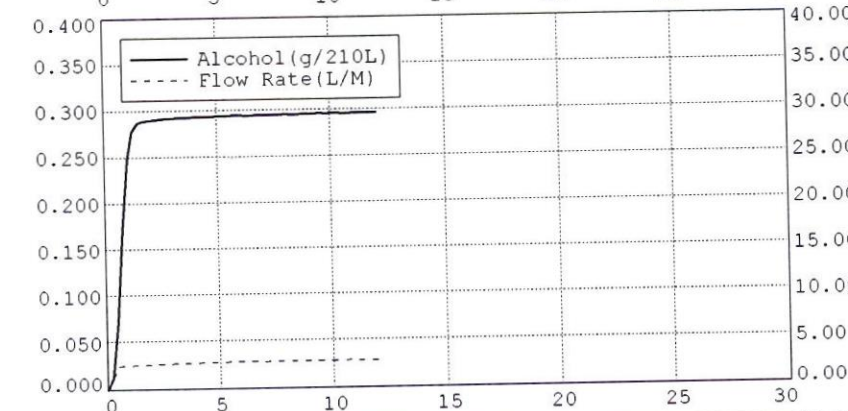
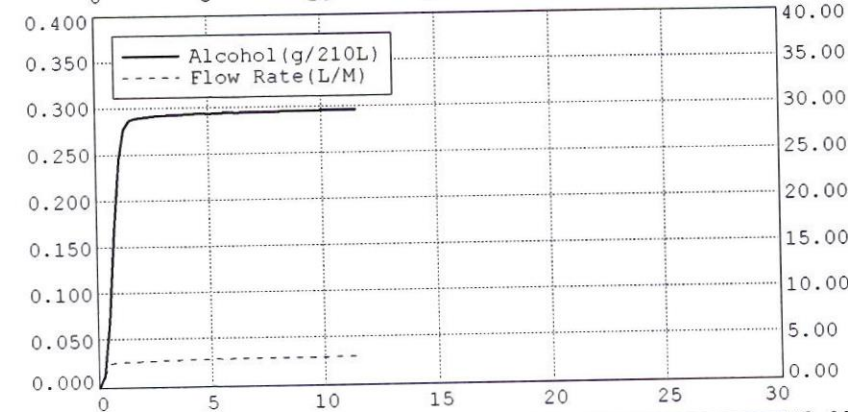
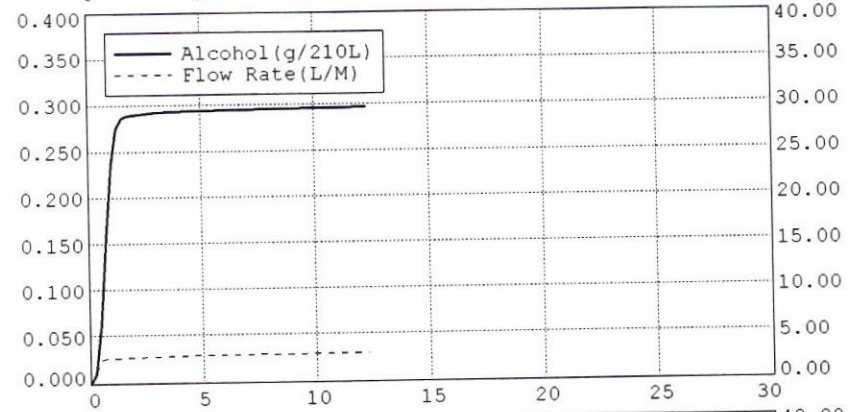
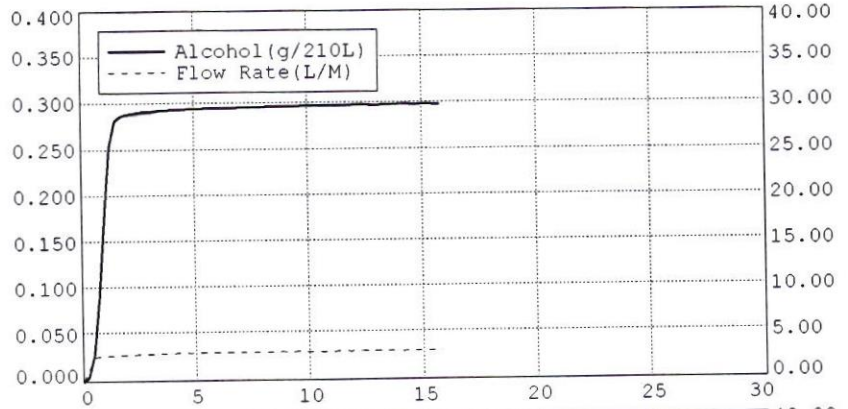
Date: 12/20/2022
 Time: 09:57:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 TARGET AT 30.06: 0.301
 LOT #: AG130502
 EXPIRATION: 11/01/2023
 TANK PRESSURE: 304 psi

BLANK TEST	0.000	09:58
INTERNAL STANDARD	VERIFIED	09:58
EXTERNAL STANDARD	0.297	09:59
BLANK TEST	0.000	09:59
EXTERNAL STANDARD	0.296	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.296	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.295	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.295	10:03
BLANK TEST	0.000	10:04

Average = 0.2958
 Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 12/20/2022
Time: 10:11:26

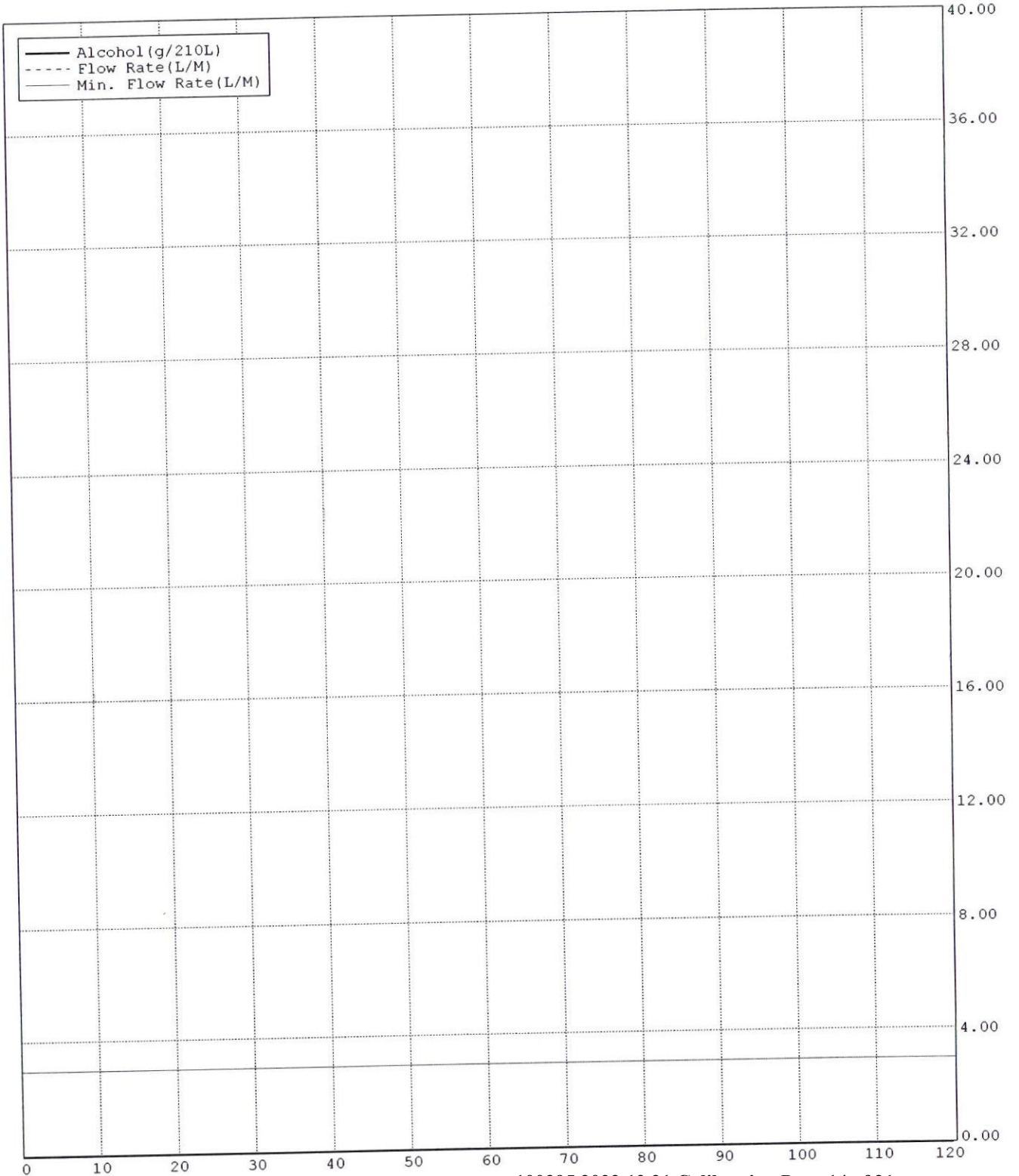
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.06: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	10:12
BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:13
EXTERNAL STANDARD	0.080	10:13
BLANK TEST	0.000	10:14
SUBJECT SAMPLE	INCOMPLETE	10:16



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 12/20/2022
Time: 10:22:51

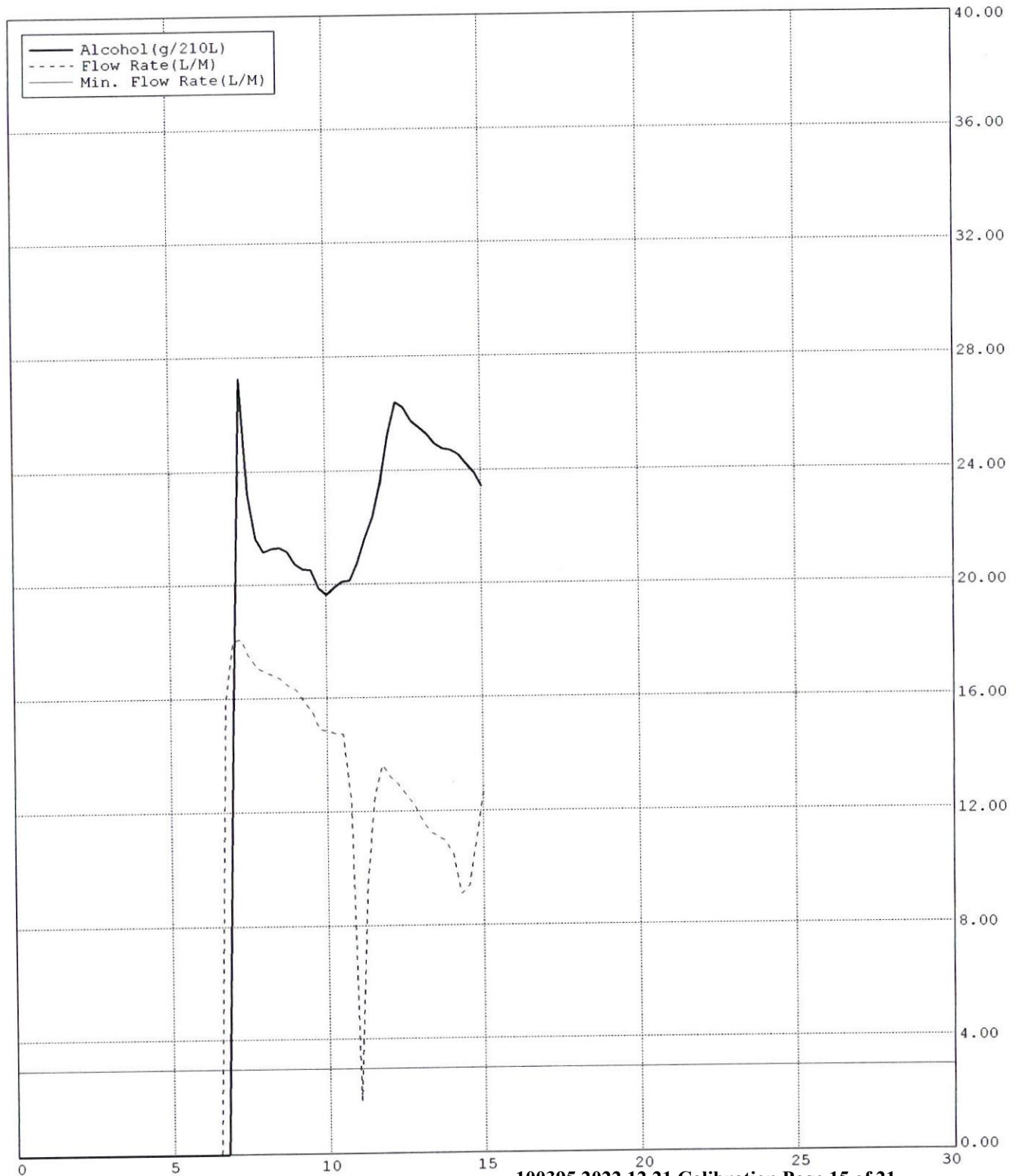
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.06: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	10:23
BLANK TEST	0.000	10:24
INTERNAL STANDARD	VERIFIED	10:24
EXTERNAL STANDARD	0.080	10:24
BLANK TEST	0.000	10:25
SUBJECT SAMPLE	INVALID	10:25



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 12/20/2022
Time: 10:18:03

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

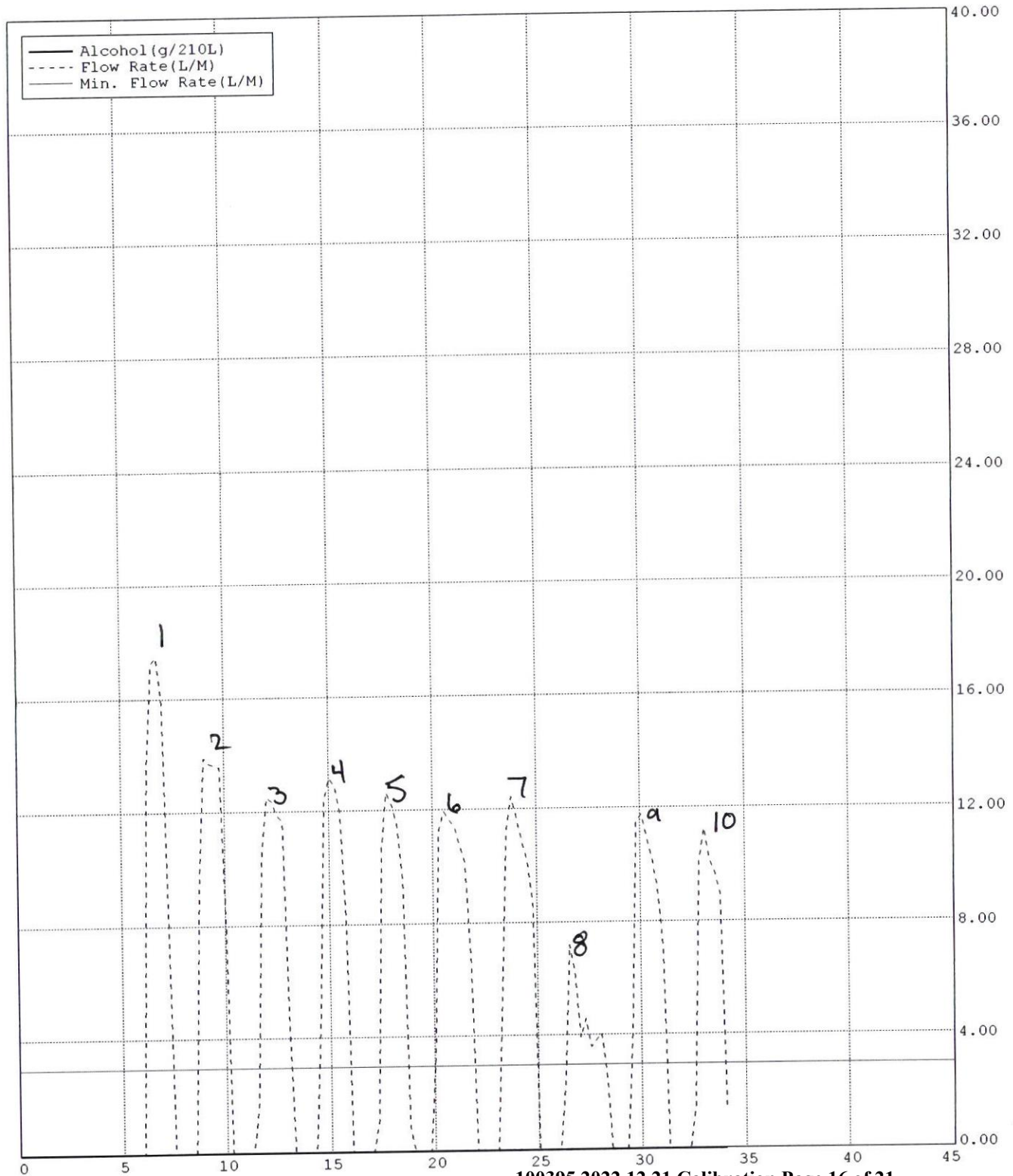
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.06: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	10:19
BLANK TEST	0.000	10:19
INTERNAL STANDARD	VERIFIED	10:19
EXTERNAL STANDARD	0.080	10:19
BLANK TEST	0.000	10:20
SUBJECT SAMPLE	XXX	10:21

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 12/20/2022
Time: 10:27:15

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

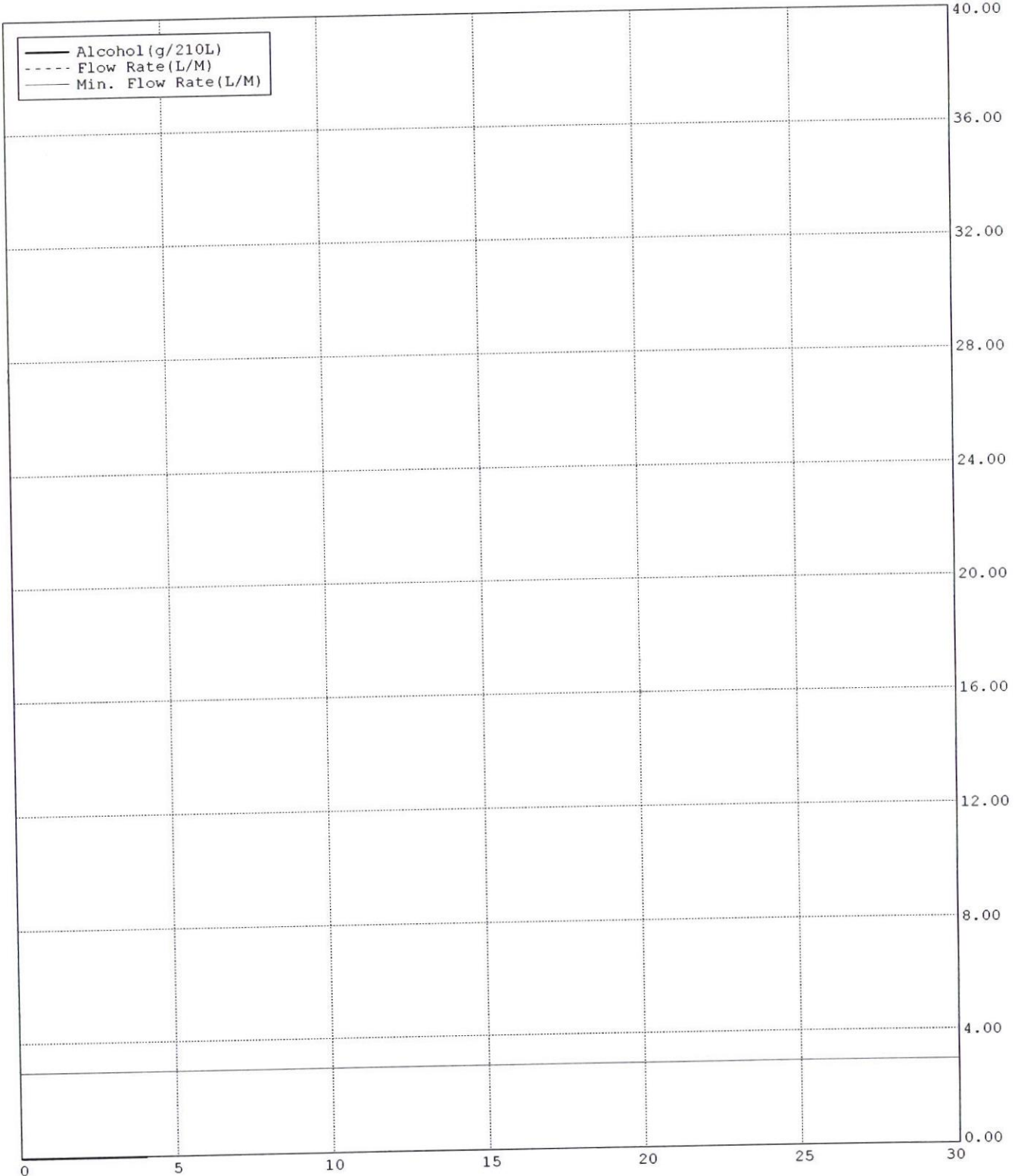
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.06: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	10:28
BLANK TEST	0.000	10:28
INTERNAL STANDARD	VERIFIED	10:28
EXTERNAL STANDARD	0.079	10:28
BLANK TEST	0.000	10:29

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 12/20/2022
Time: 13:19:23

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

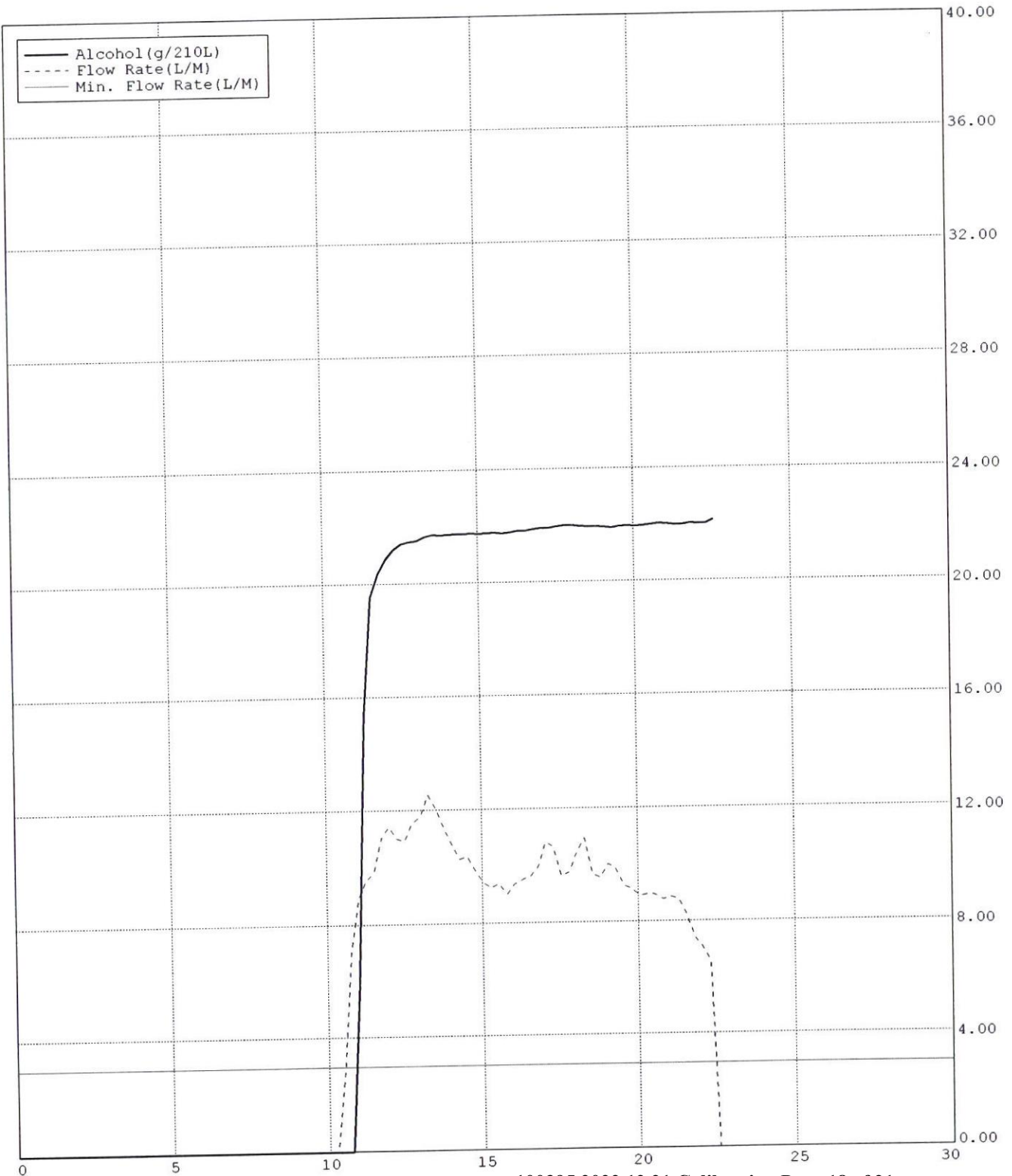
DEPT/AGENCY:
INTERFERENCE ACETONE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.04: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:21
BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
Xq = 0.093 (0.09%)		
EXTERNAL STANDARD	0.079	13:22
X[1] = 0.0793 (-0.0026) (0.0013)		
BLANK TEST	0.000	13:23
SUBJECT SAMPLE	XXX	13:23
X[1] = 0.1111 (-0.0213) (-0.0007)		

Interference Detected

Filter 2 Avg: -0.0023
Filter 3 Avg: 0.0014
BMB 12/27/22



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 12/20/2022
Time: 13:26:19

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

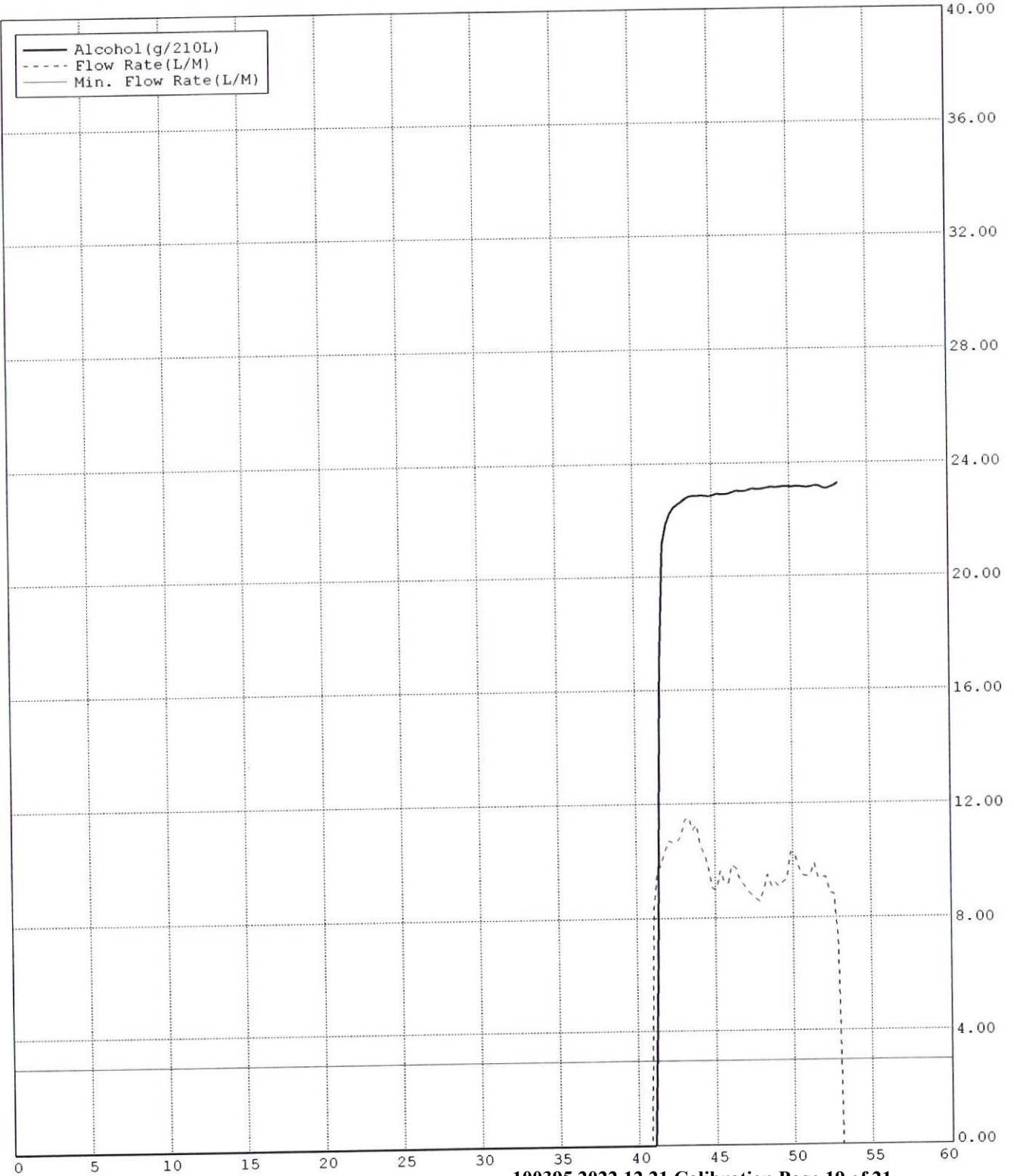
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.05: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:27
BLANK TEST	0.000	13:27
INTERNAL STANDARD	VERIFIED	13:27
Xq = 0.092 (0.56%)		
EXTERNAL STANDARD	0.079	13:27
X[1] = 0.0790 (-0.0024) (0.0018)		
BLANK TEST	0.000	13:28
SUBJECT SAMPLE	XXX	13:29
X[1] = 0.1166 (-0.0256) (0.0004)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 12/20/2022
Time: 13:31:57

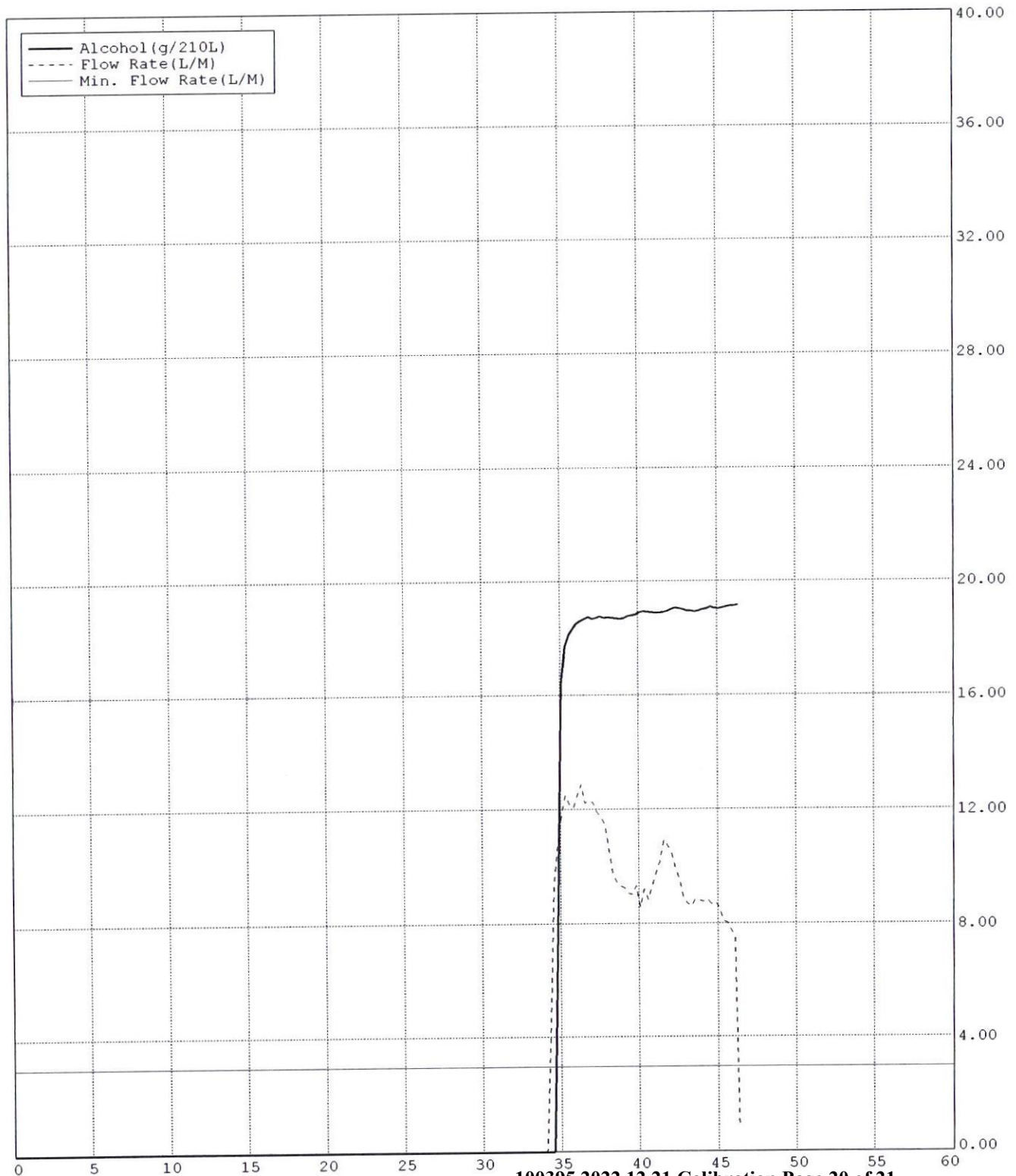
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.05: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:34
BLANK TEST	0.000	13:34
INTERNAL STANDARD	VERIFIED	13:34
Xq = 0.093 (0.38%)		
EXTERNAL STANDARD	0.079	13:34
X[1] = 0.0791 (-0.0024) (0.0012)		
BLANK TEST	0.000	13:35
SUBJECT SAMPLE (Vol=1.98L)	0.096	13:36
X[1] = 0.0963 (-0.0030) (-0.0005)		
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.079	13:37
X[1] = 0.0789 (-0.0017) (0.0014)		
BLANK TEST	0.000	13:38



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100395

Date: 12/20/2022
Time: 13:56:03

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI M BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.05: 0.080
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:57
BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:57
EXTERNAL STANDARD	0.080	13:57
BLANK TEST	0.000	13:58
SUBJECT SAMPLE (Vol=2.03L)	0.000	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.080	13:59
BLANK TEST	0.000	14:00

