



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: 100366
 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: 10/27/2022
 G690AG9VG2D5Q6

No As-Found Data Collected

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

As Left Conditions - Barometric Pressure (inHg): 29.51 Temperature (C): 22.3 Relative Humidity (%): 20

As-Left Data

Nominal Values (g/210L)	Target Value at 29.51 in Hg	Lot Number	Results (g/210L)					Mean (g/210L)	Uncertainty (g/210L)
0.020	0.020	AG100401	0.020	0.019	0.020	0.020	0.020	0.020	+/- 0.002
0.040	0.039	AG111710	0.039	0.039	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	AG211003	0.097	0.097	0.097	0.098	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	0.295	AG217903	0.292	0.291	0.292	0.292	0.292	0.292	+/- 0.008

No As-Found Evaluation was performed. The Evaluation performed prior to this Calibration was completed before 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: Colleen O'Bryant
colleen.obryant@alaska.gov

Technically Reviewed by: Brandi Barnett on 10/27/2022

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100366 Analyst: C. O'Bryant 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 1.6 L (1.3L to 1.7L)

As Left Conditions:

Barometric Pressure (in Hg): 29.51 Temperature (C): 22.3 Relative Humidity (%): 20

Linearity Test (attached)

0.020g/210L Mnf: <u>Aargas</u>	Lot: <u>AG100401</u>	Exp: <u>1/4/23</u>
0.040g/210L Mnf: <u>Aargas</u>	Lot: <u>AG111710</u>	Exp: <u>4/27/23</u>
0.080g/210L Mnf: <u>Aargas</u>	Lot: <u>AG113402</u>	Exp: <u>5/14/23</u>
0.100g/210L Mnf: <u>Aargas</u>	Lot: <u>AG211003</u>	Exp: <u>4/20/24</u>
0.150g/210L Mnf: <u>Aargas</u>	Lot: <u>AG134205</u>	Exp: <u>12/8/23</u>
0.300g/210L Mnf: <u>Aargas</u>	Lot: <u>AG217903</u>	Exp: <u>6/28/24</u>

Functional Tests (attached)

- Incomplete
- Invalid
- Maximum Attempts Exceeded
- Radio Frequency Interference (RFI)
- Interference (Volatiles)
- Acetone Mnf: Lifloc Lot: 21DP41158 Level: 0.100 Exp: 4/29/23
 - Simulator S/N: SD1200 Verification Performed?
- Isopropanol Mnf: Lifloc Lot: 21KP41172 Level: 0.100 Exp: 11/9/23
 - Simulator S/N: DR4176 Verification Performed?
- Neg. Control Mnf: Lifloc 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: 11/9/23

- 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: 10/13/22

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 10/12/2022
Time: 13:32:04

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 = 2.40 V PASSED
(1.43 V - 3.33 V)
Cooler Voltage = 1.96 V PASSED
(1.16 V - 2.72 V)
Bias Voltage = 81 V PASSED
(49 V - 113 V)
Chopper Freq = 520 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.5 in

PUMP INFO

Flow Rate = 4.573 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
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.103 0.68% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100366

Date: 10/12/2022
Time: 1:45 PM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 48.1°C

Current Barometer 29.5 in
Volume (Ltr) 1.45

Settings

Lamp: 2.40 V
Bias: 81 V
Cooler: 1.99 V
Chopper: 519 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.026 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 09/01/2022
Time: 08:20:04

OPERATOR NAME:
TATIANA MALNOSKE
CERTIFICATE #: 10437

Ca = 0.1000
CAL = 0.984619 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0060 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.1040 0.0500 <= Xq < 0.2000
a21 = 1.192864 1.050 <= a21 < 1.300
a31 = 0.508312 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100366

Date: 10/12/2022
Time: 13:47:57

SUBJECT NAME:

TEST TEST
LICENSE #: VOLUME TEST

OPERATOR NAME:

COLLEEN S OBRYANT
OPERATOR'S #: 6237

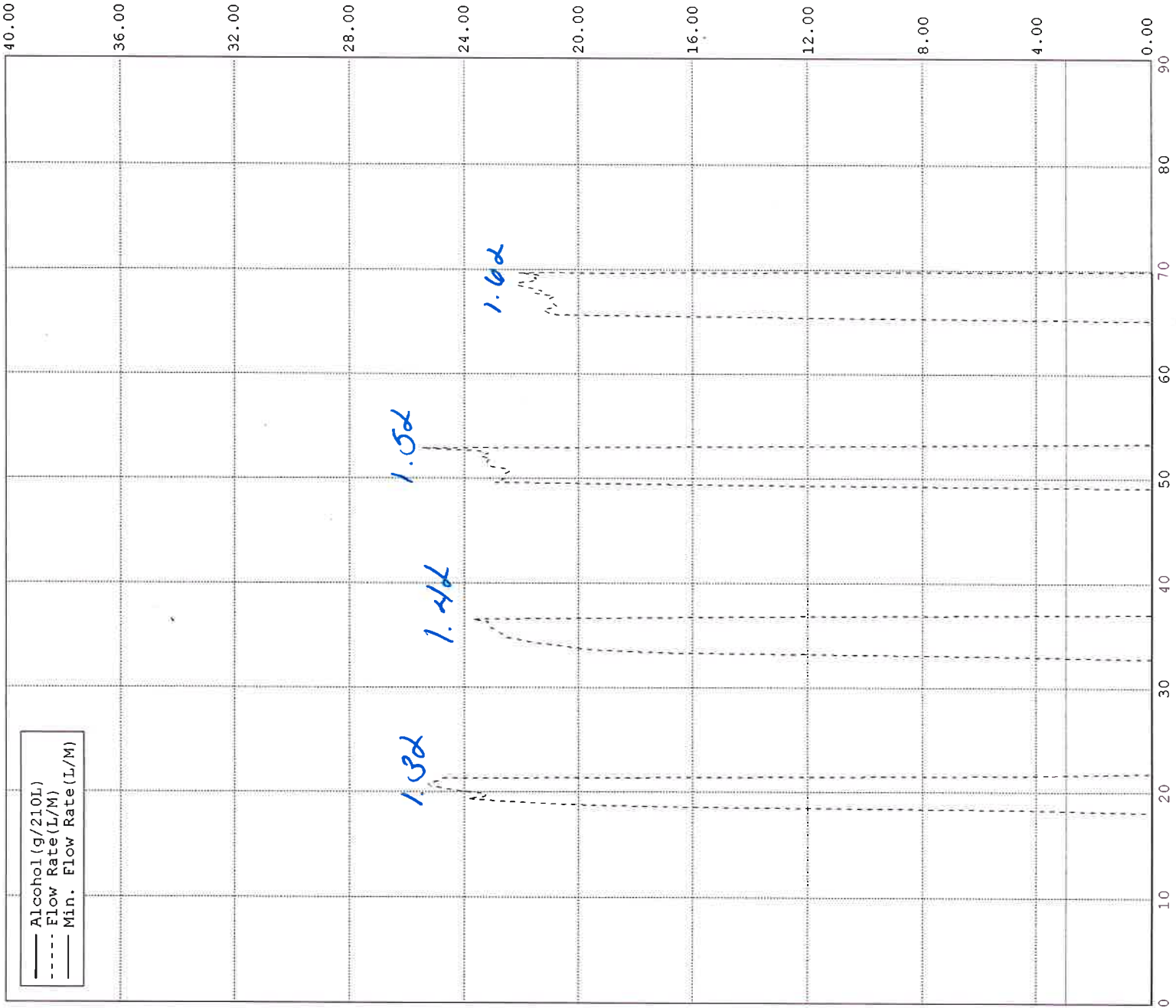
DEPT/AGENCY:

AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.51: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:49
BLANK TEST	0.000	13:49
INTERNAL STANDARD	VERIFIED	13:49
EXTERNAL STANDARD	0.077	13:49
BLANK TEST	0.000	13:50
SUBJECT SAMPLE (Vol=1.56L)	0.000	13:52
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.077	13:53
BLANK TEST	0.000	13:54



LINEARITY CHECK

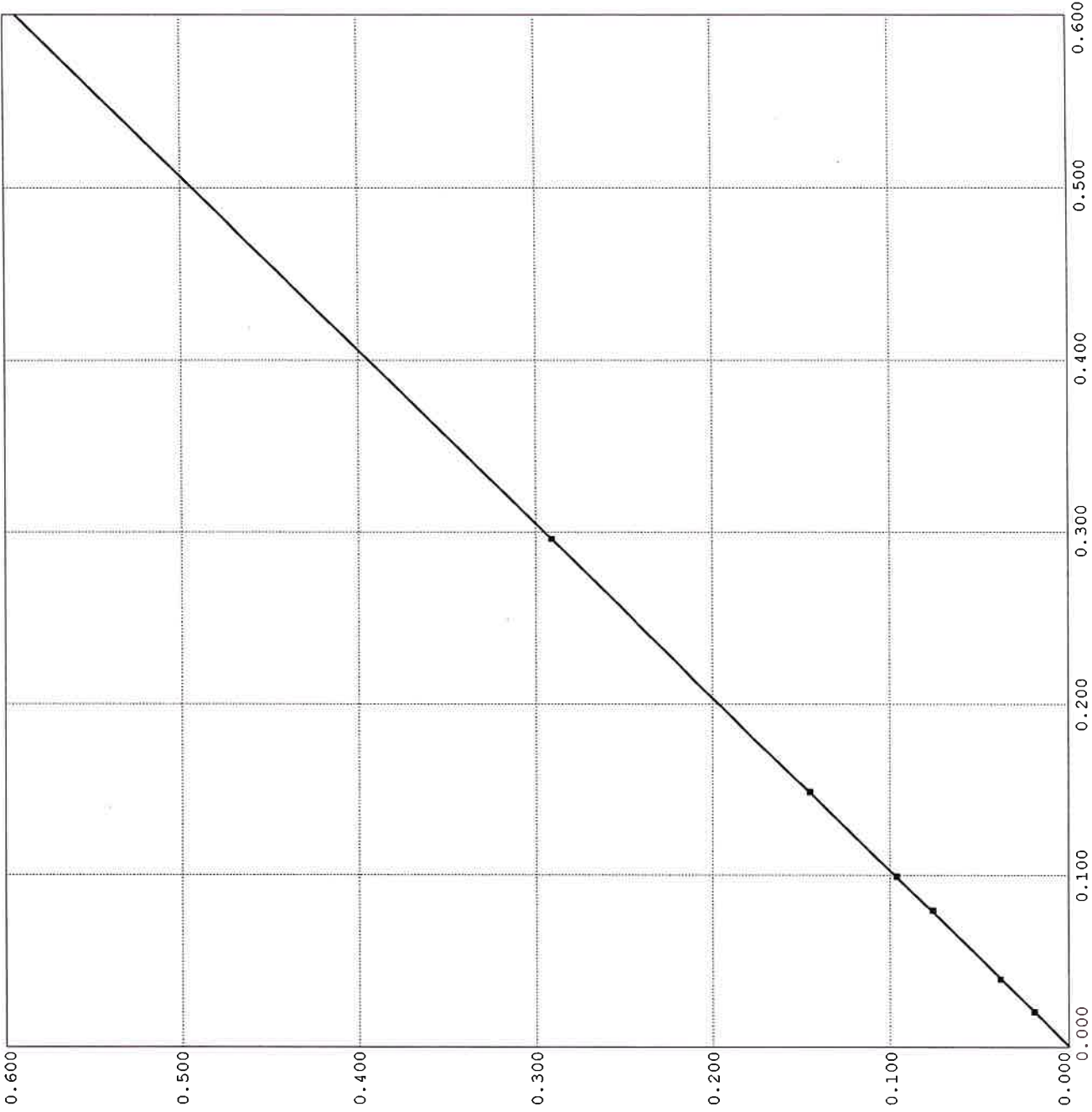
Alaska Department of Public Safety
 DATAMASTER dmt: 100366

Date: 10/12/2022
 Time: 13:57:37

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.039	0.0390	0.0000
0.079	0.0770	0.0000
0.099	0.0972	0.0004
0.148	0.1460	0.0000
0.295	0.2918	0.0004

SLOPE = 0.989212
 R² = 0.999967



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100366

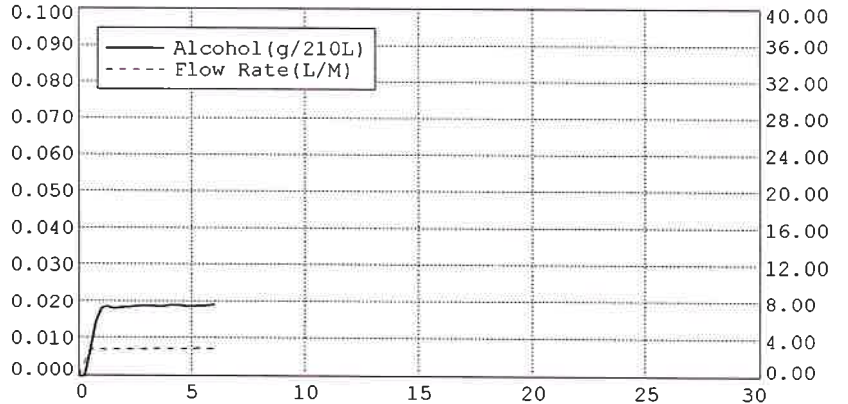
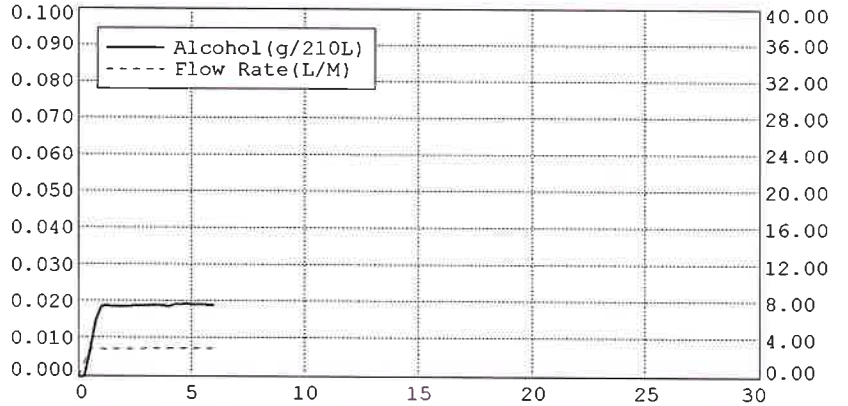
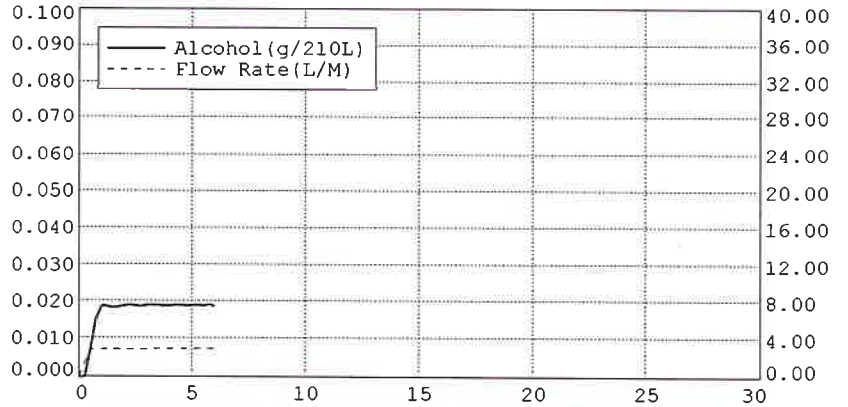
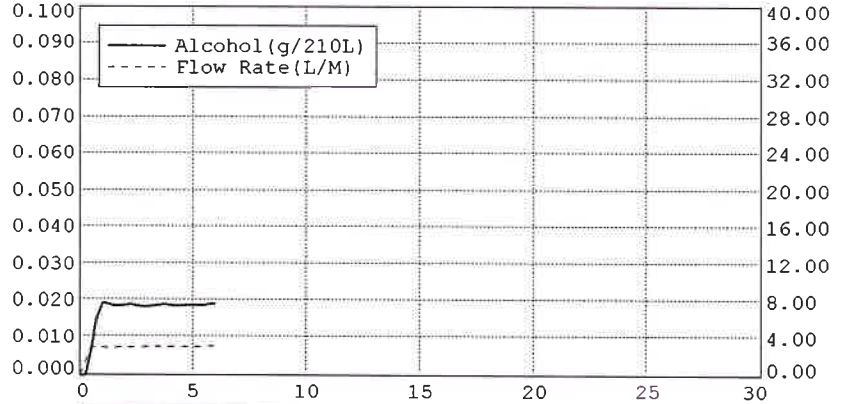
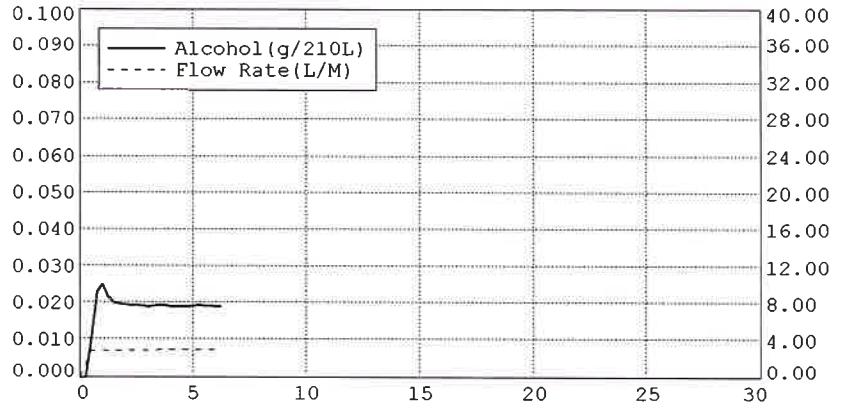
Date: 10/12/2022
Time: 13:57:40

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.51: 0.020
LOT #: AG100401
EXPIRATION: 01/04/2023
TANK PRESSURE: 308 psi

BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.020	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.019	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.020	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.020	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.020	14:08
BLANK TEST	0.000	14:09

Average = 0.0198
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100366

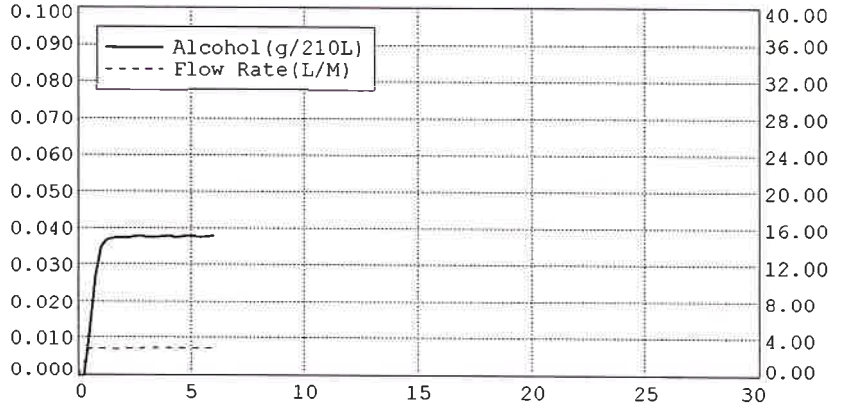
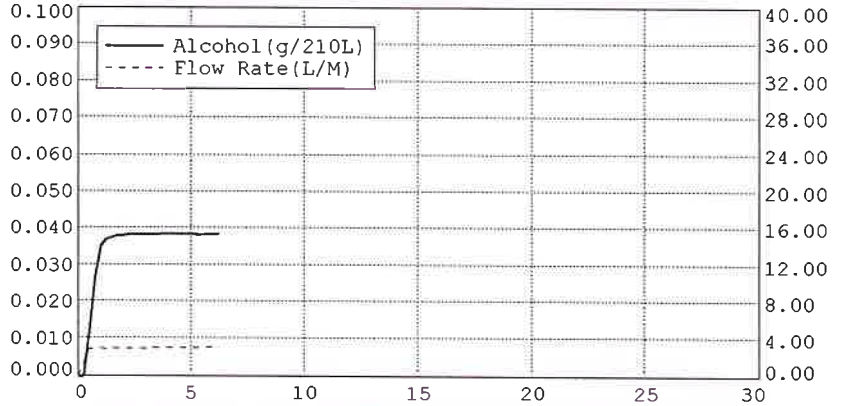
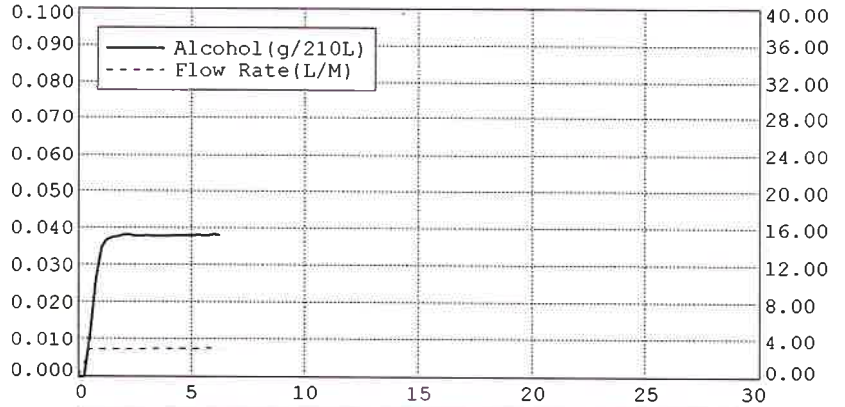
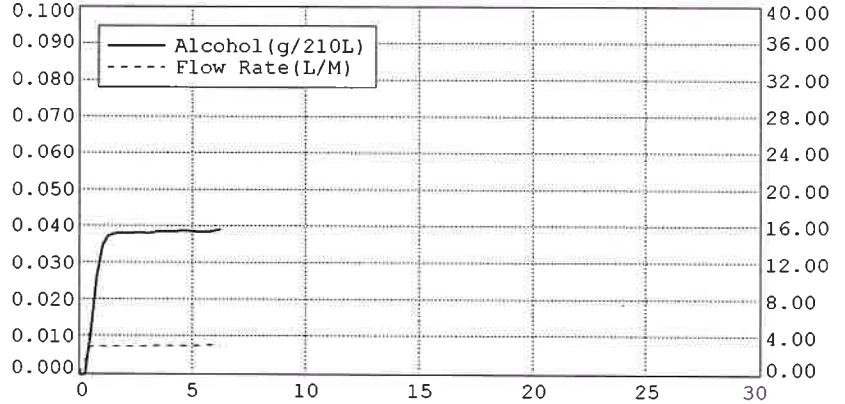
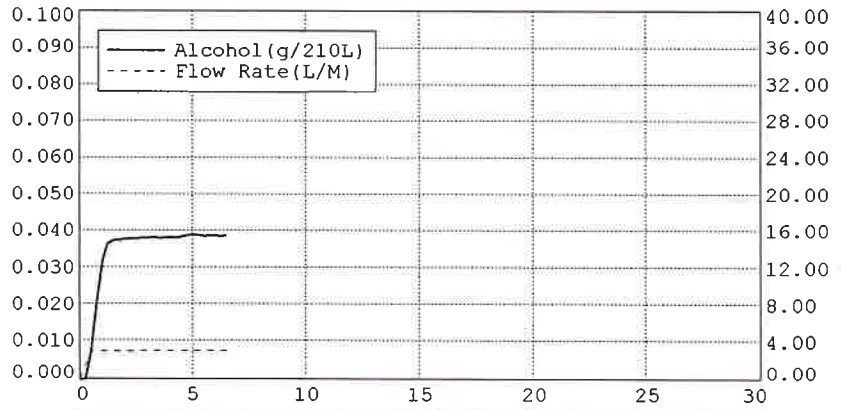
Date: 10/12/2022
 Time: 14:10:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.49: 0.039
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 492 psi

BLANK TEST	0.000	14:12
INTERNAL STANDARD	VERIFIED	14:12
EXTERNAL STANDARD	0.039	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.039	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.039	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.039	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.039	14:16
BLANK TEST	0.000	14:17

Average = 0.0390
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100366

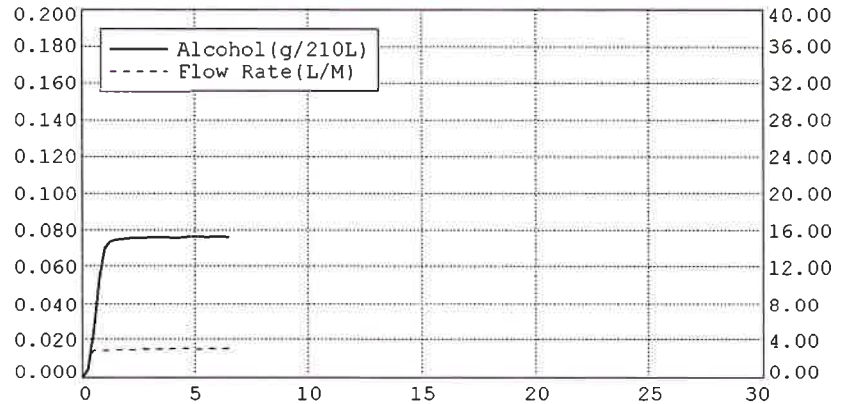
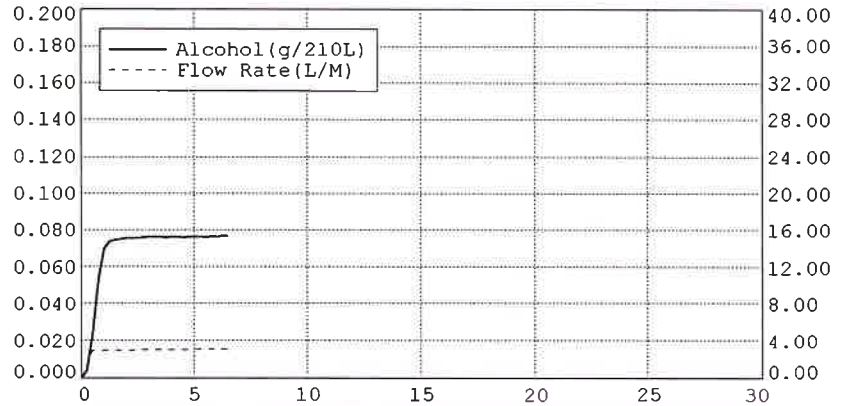
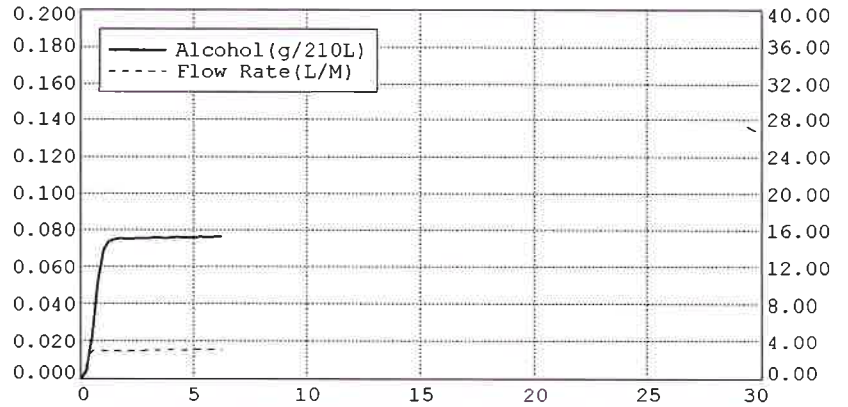
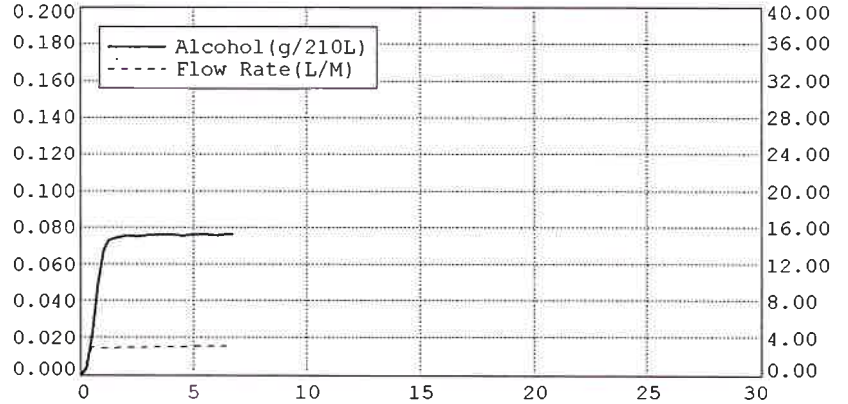
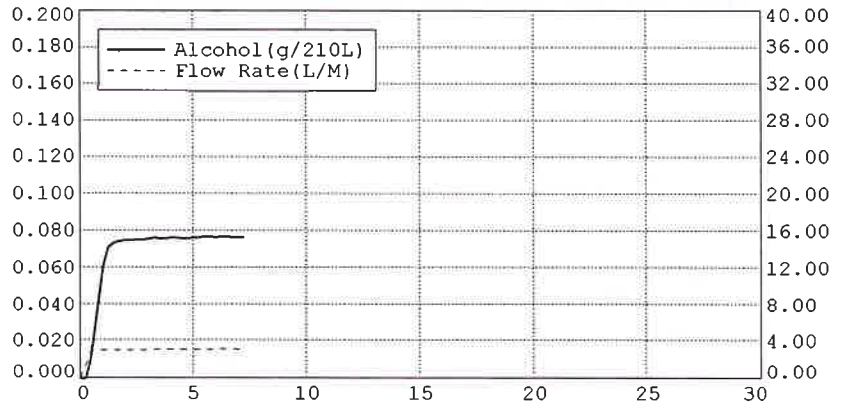
Date: 10/12/2022
 Time: 14:20:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.49: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023
 TANK PRESSURE: 802 psi

BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21
EXTERNAL STANDARD	0.077	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.077	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.077	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.077	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.077	14:25
BLANK TEST	0.000	14:26

Average = 0.0770
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100366

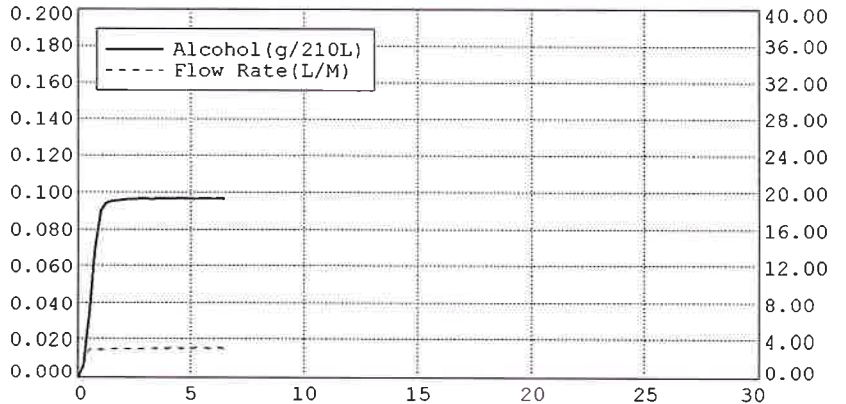
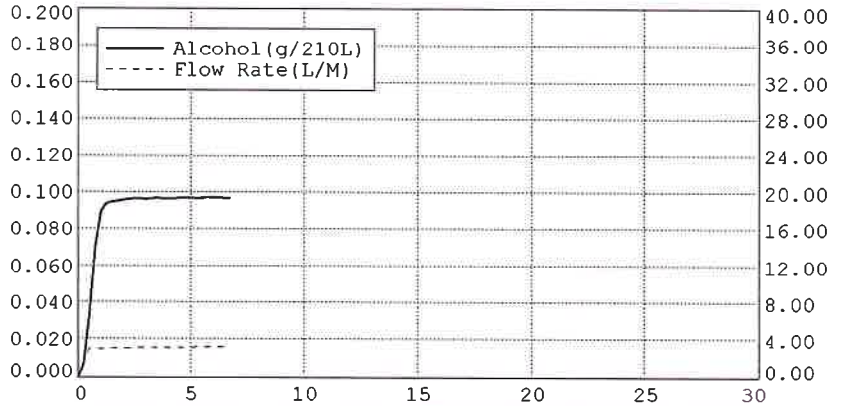
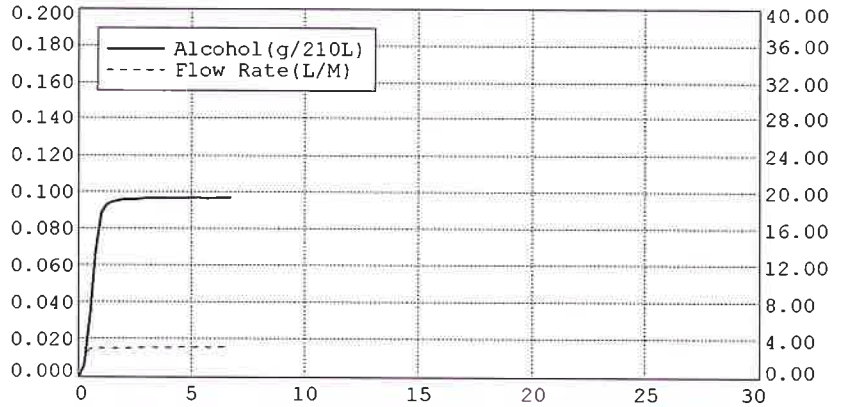
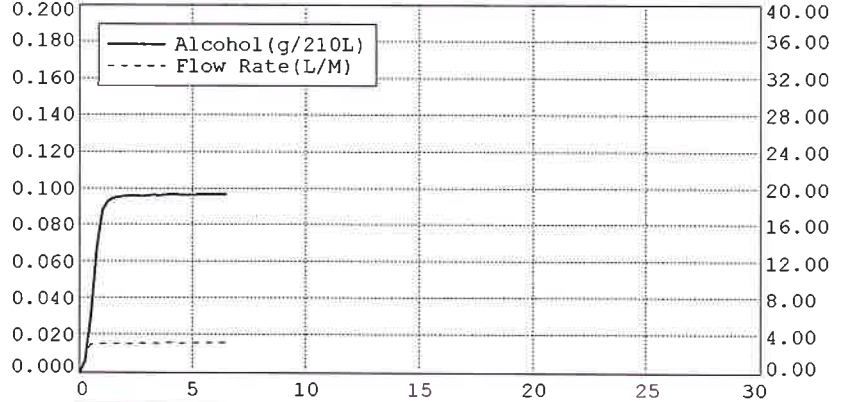
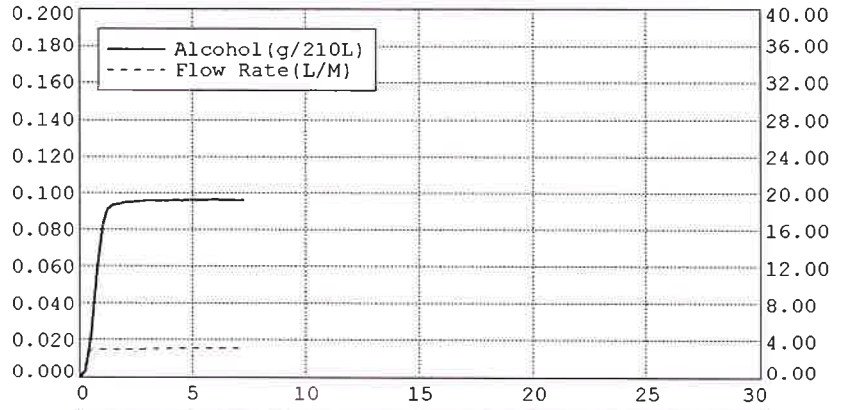
Date: 10/12/2022
 Time: 14:27:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.47: 0.099
 LOT #: AG211003
 EXPIRATION: 04/20/2024
 TANK PRESSURE: 1127 psi

BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.097	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.097	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.097	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.098	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.097	14:34
BLANK TEST	0.000	14:34

Average = 0.0972
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100366

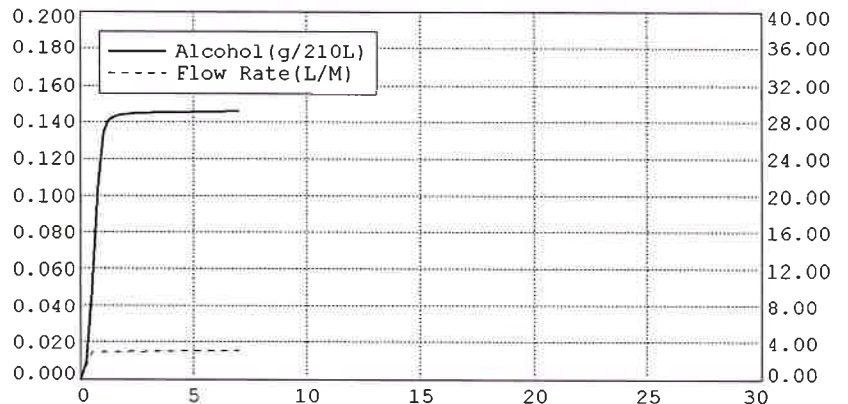
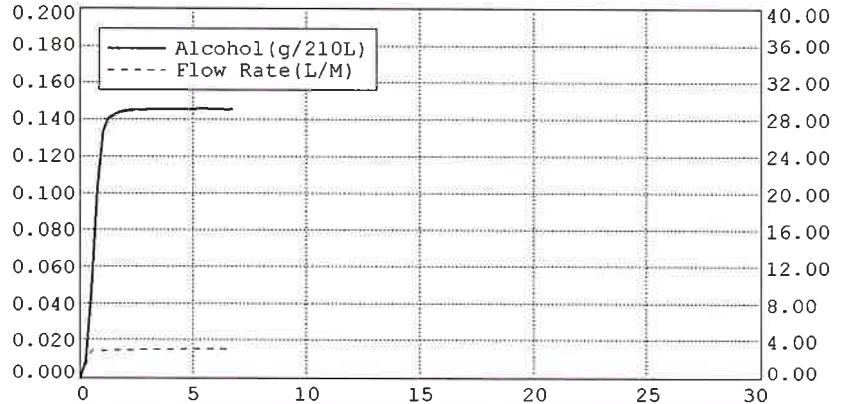
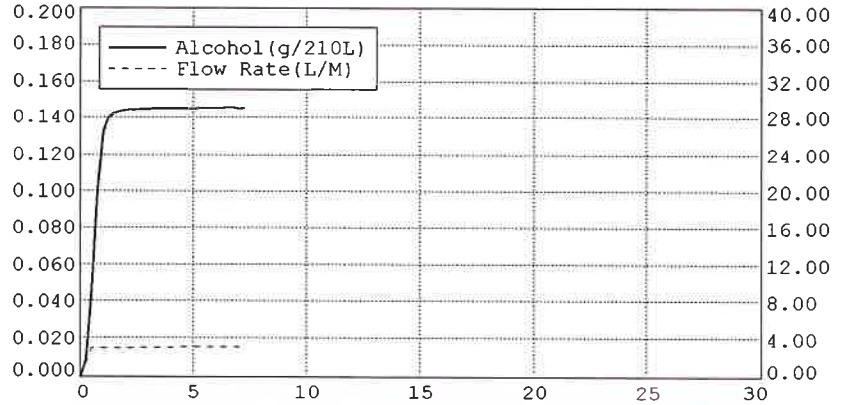
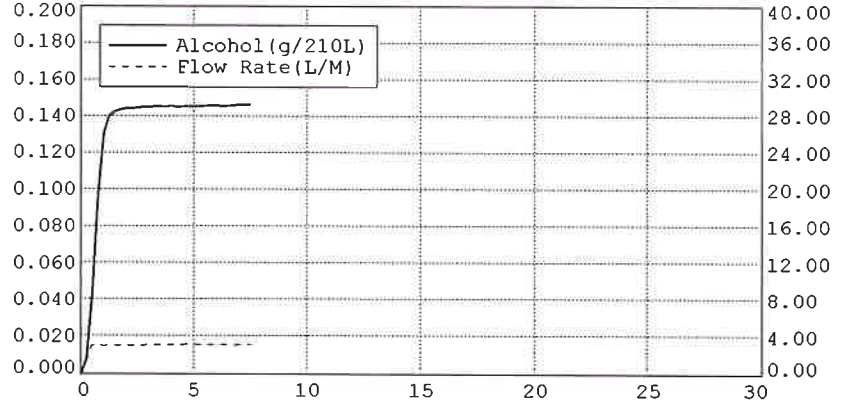
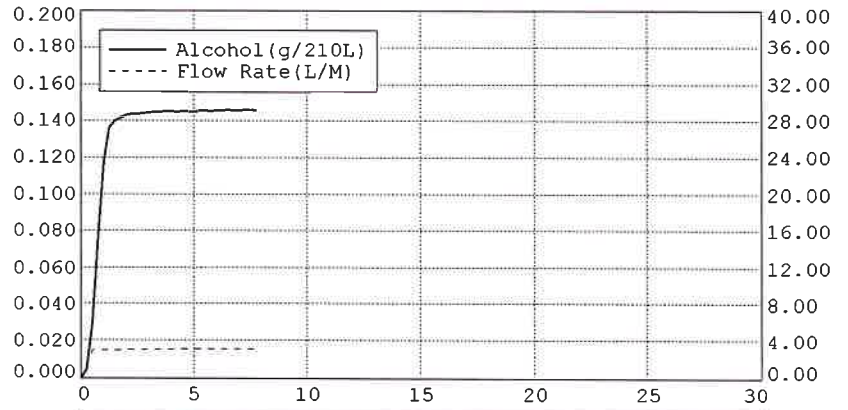
Date: 10/12/2022
Time: 14:37:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.150
TARGET AT 29.46: 0.148
LOT #: AG134205
EXPIRATION: 12/08/2023
TANK PRESSURE: 1034 psi

BLANK TEST	0.000	14:39
INTERNAL STANDARD	VERIFIED	14:39
EXTERNAL STANDARD	0.146	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.146	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.146	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.146	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.146	14:43
BLANK TEST	0.000	14:44

Average = 0.1460
Std Dev = 0.0000



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100366

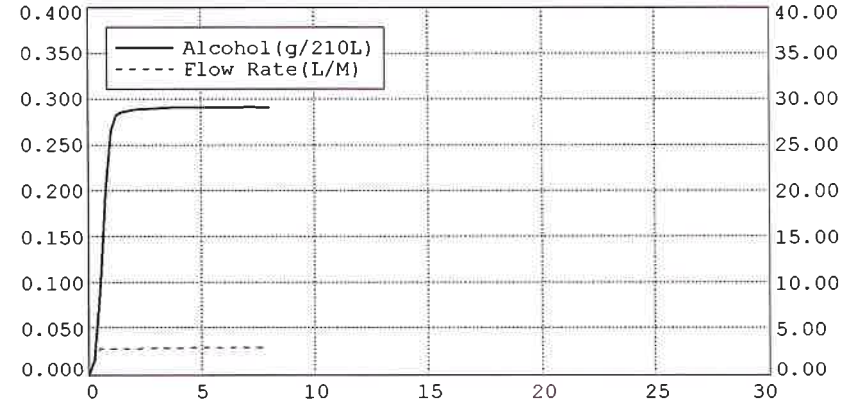
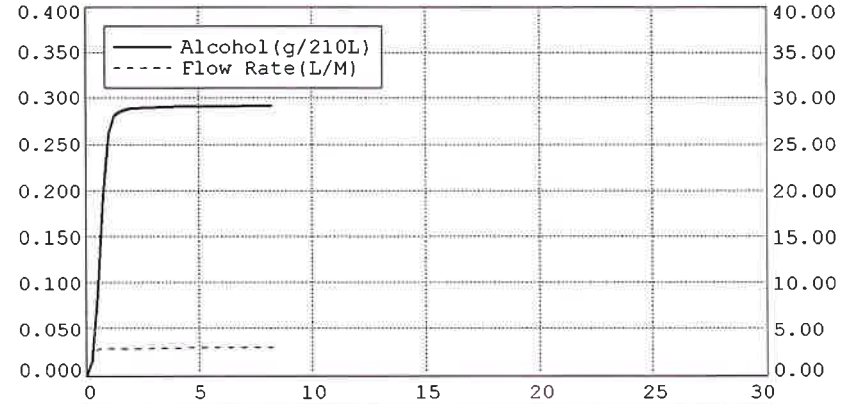
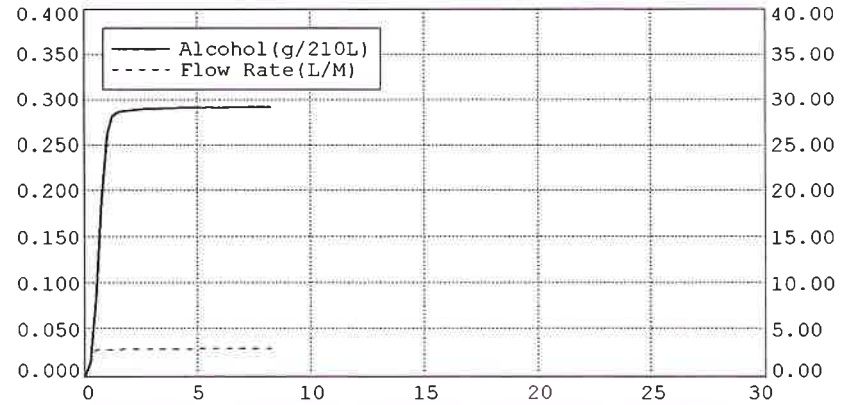
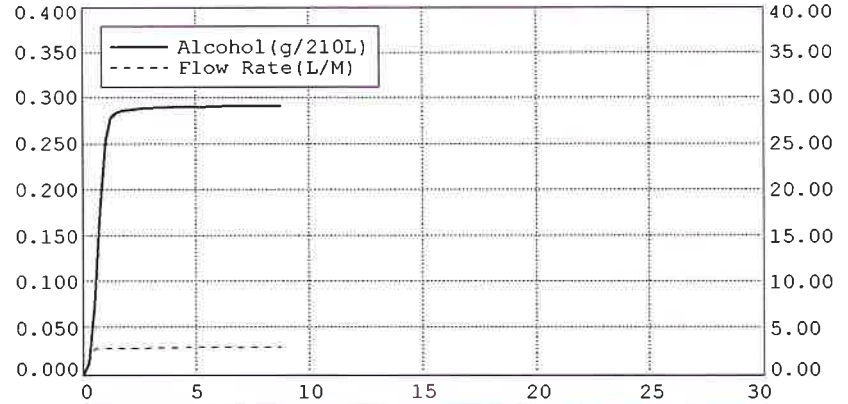
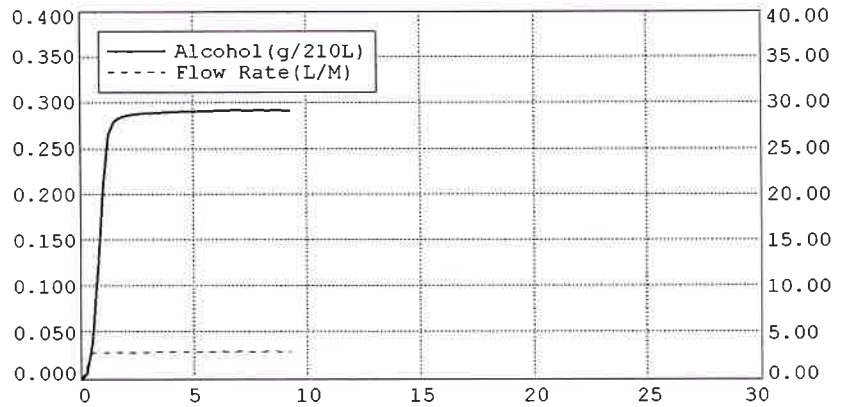
Date: 10/12/2022
Time: 14:54:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.45: 0.295
LOT #: AG217903
EXPIRATION: 06/28/2024
TANK PRESSURE: 562 psi

BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:55
EXTERNAL STANDARD	0.292	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.291	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.292	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.292	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.292	15:00
BLANK TEST	0.000	15:01

Average = 0.2918
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 10/12/2022
Time: 16:24:08

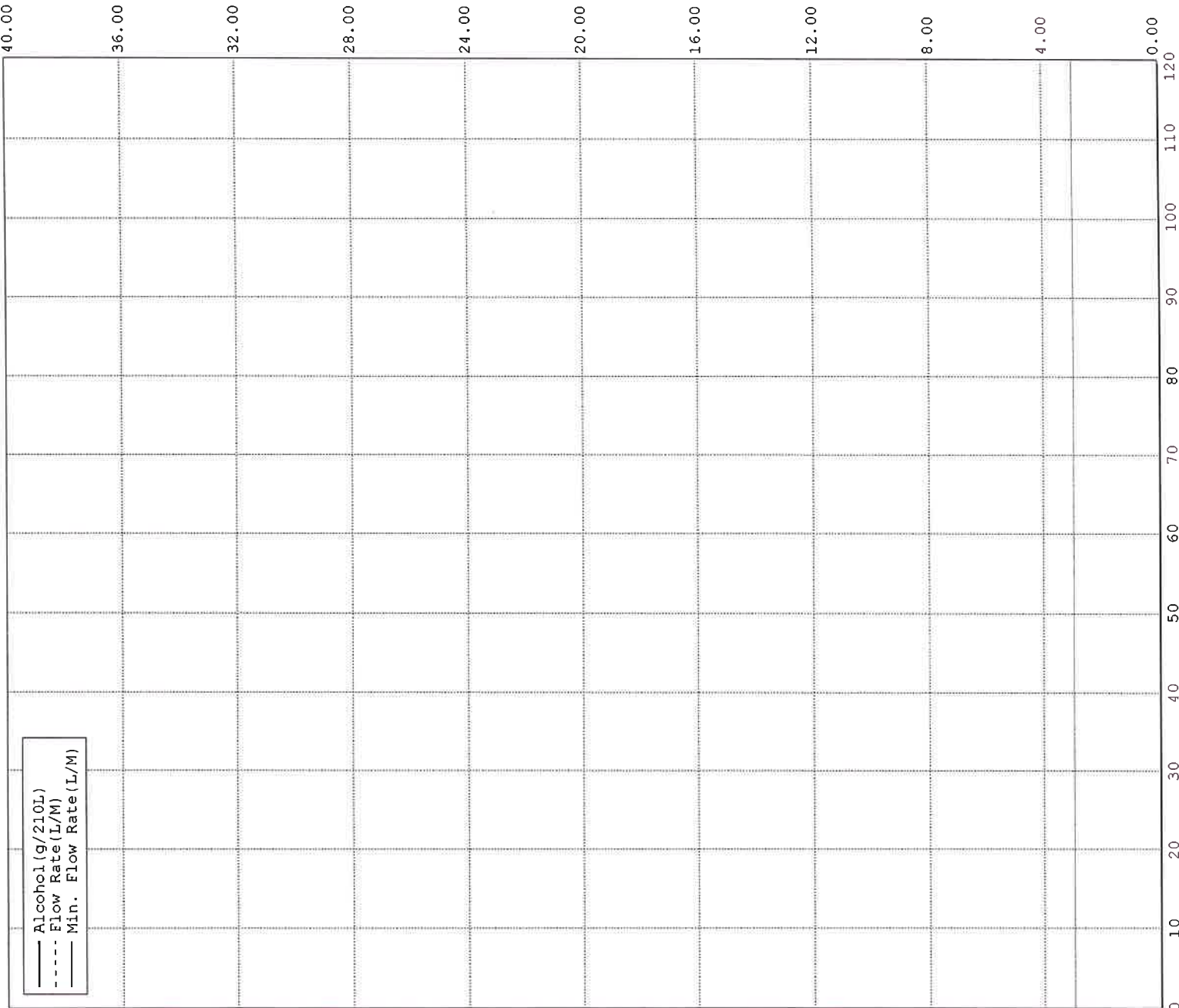
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.36: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 16:26
BLANK TEST 0.000 16:26
INTERNAL STANDARD VERIFIED 16:26
EXTERNAL STANDARD 0.077 16:27
BLANK TEST 0.000 16:28
SUBJECT SAMPLE INCOMPLETE 16:30



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100366

Date: 10/12/2022

Time: 16:32:50

SUBJECT NAME:

TEST TEST

LICENSE #: INVALID

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 22-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.35: 0.078

LOT #: AG113402

EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK

PASSED 16:34

BLANK TEST

0.000 16:34

INTERNAL STANDARD

VERIFIED 16:34

EXTERNAL STANDARD

0.077 16:34

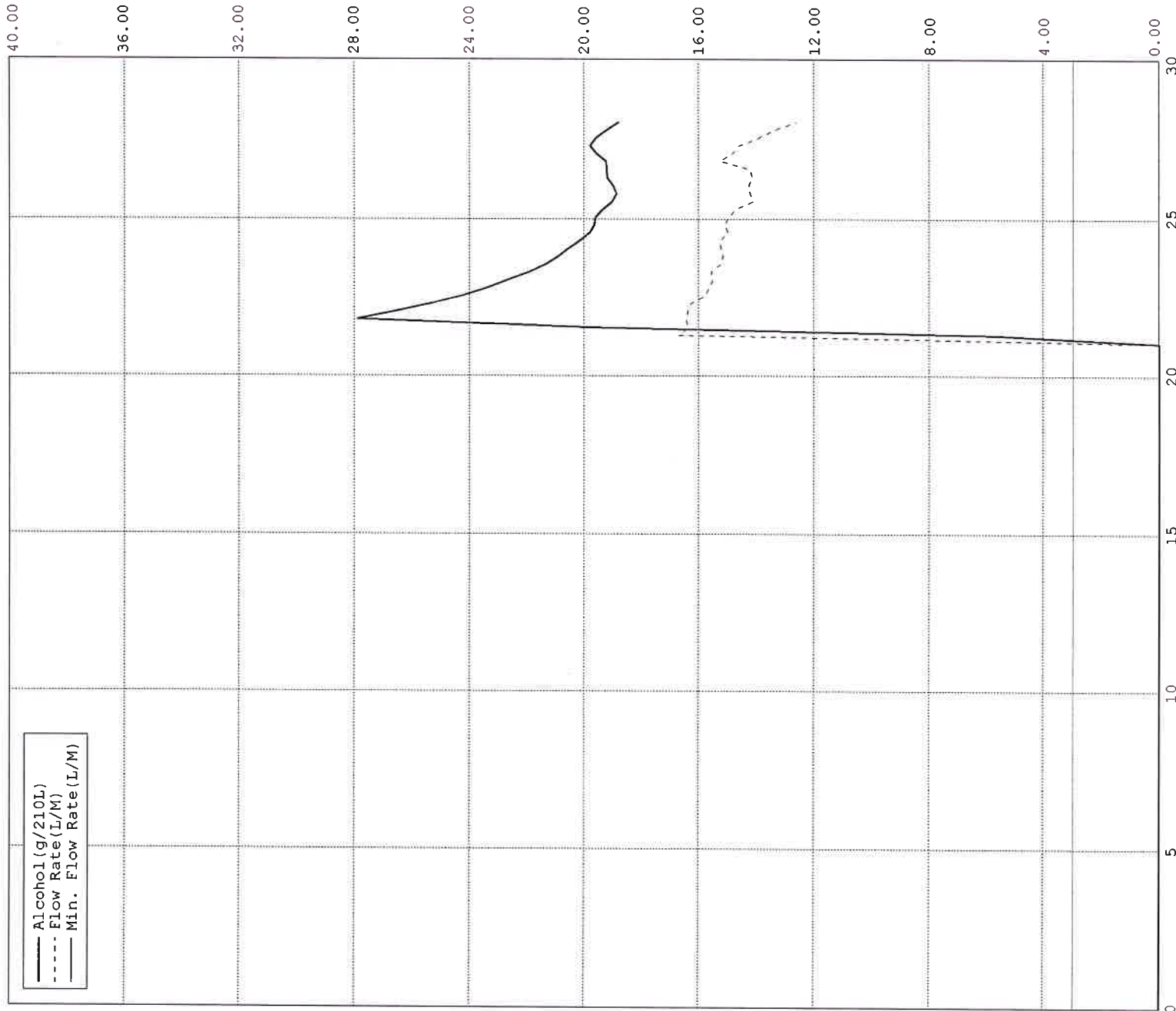
BLANK TEST

0.000 16:35

SUBJECT SAMPLE

INVALID 16:36

Sub



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 10/13/2022
Time: 06:51:06

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

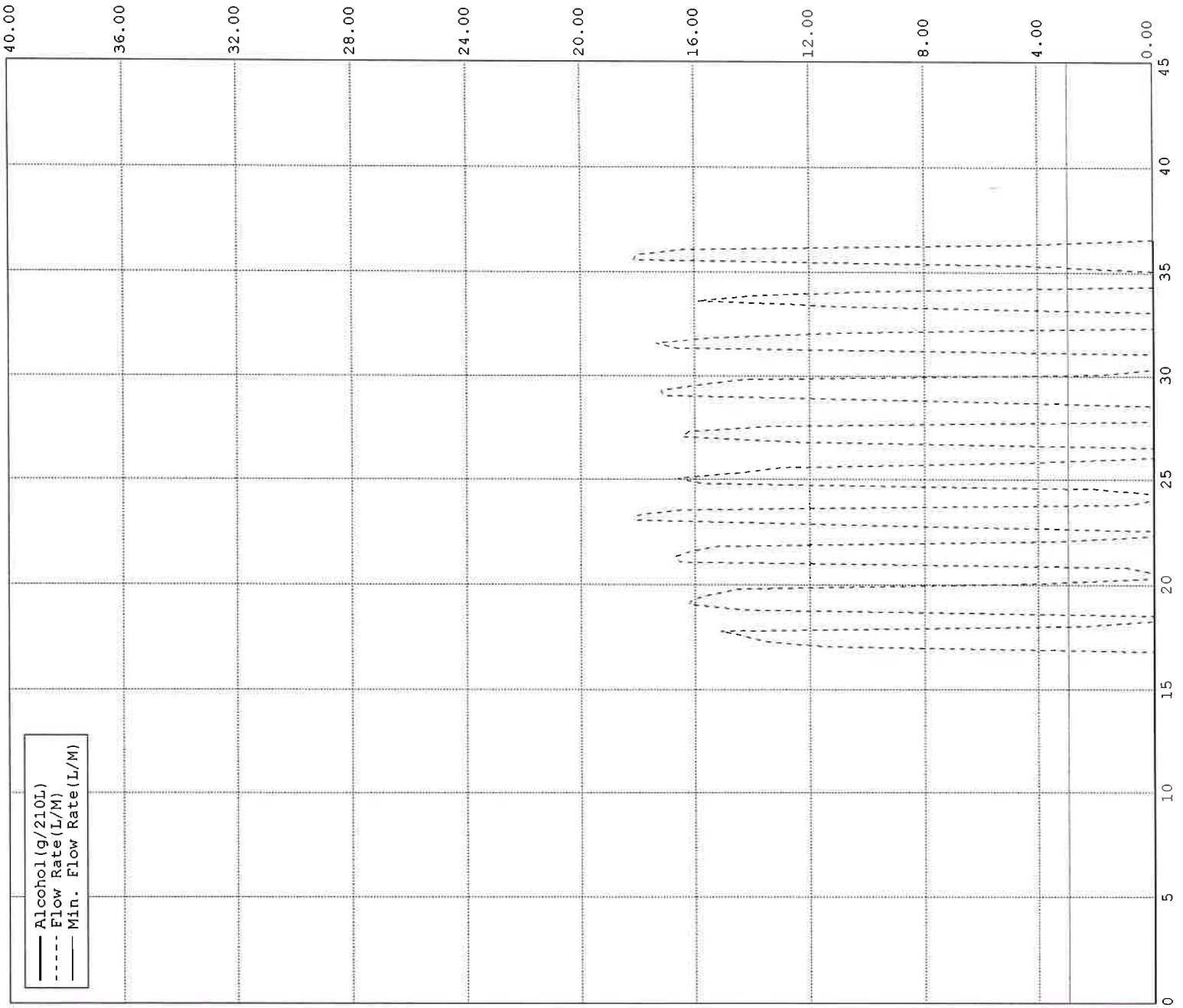
OPERATOR NAME:
COLLEEN S OBRyant
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.40: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 06:52
BLANK TEST 0.000 06:52
INTERNAL STANDARD VERIFIED 06:52
EXTERNAL STANDARD 0.077 06:52
BLANK TEST 0.000 06:53
SUBJECT SAMPLE XXX 06:54

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 10/12/2022
Time: 16:39:15

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

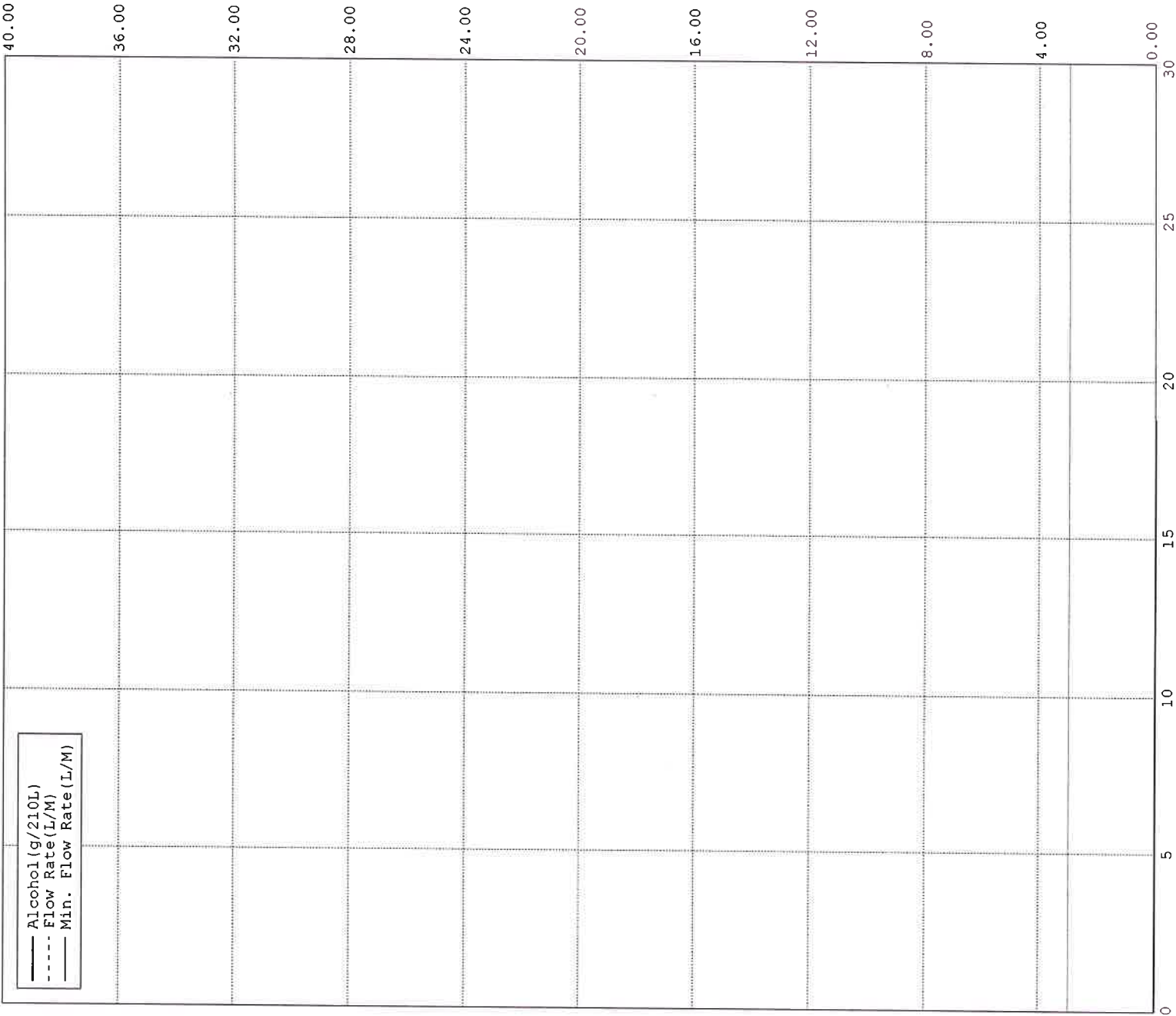
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.35: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 16:40
BLANK TEST 0.000 16:40
INTERNAL STANDARD VERIFIED 16:40
EXTERNAL STANDARD 0.077 16:40
BLANK TEST 0.000 16:41

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 10/12/2022
Time: 15:33:54

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAAA

CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.40: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

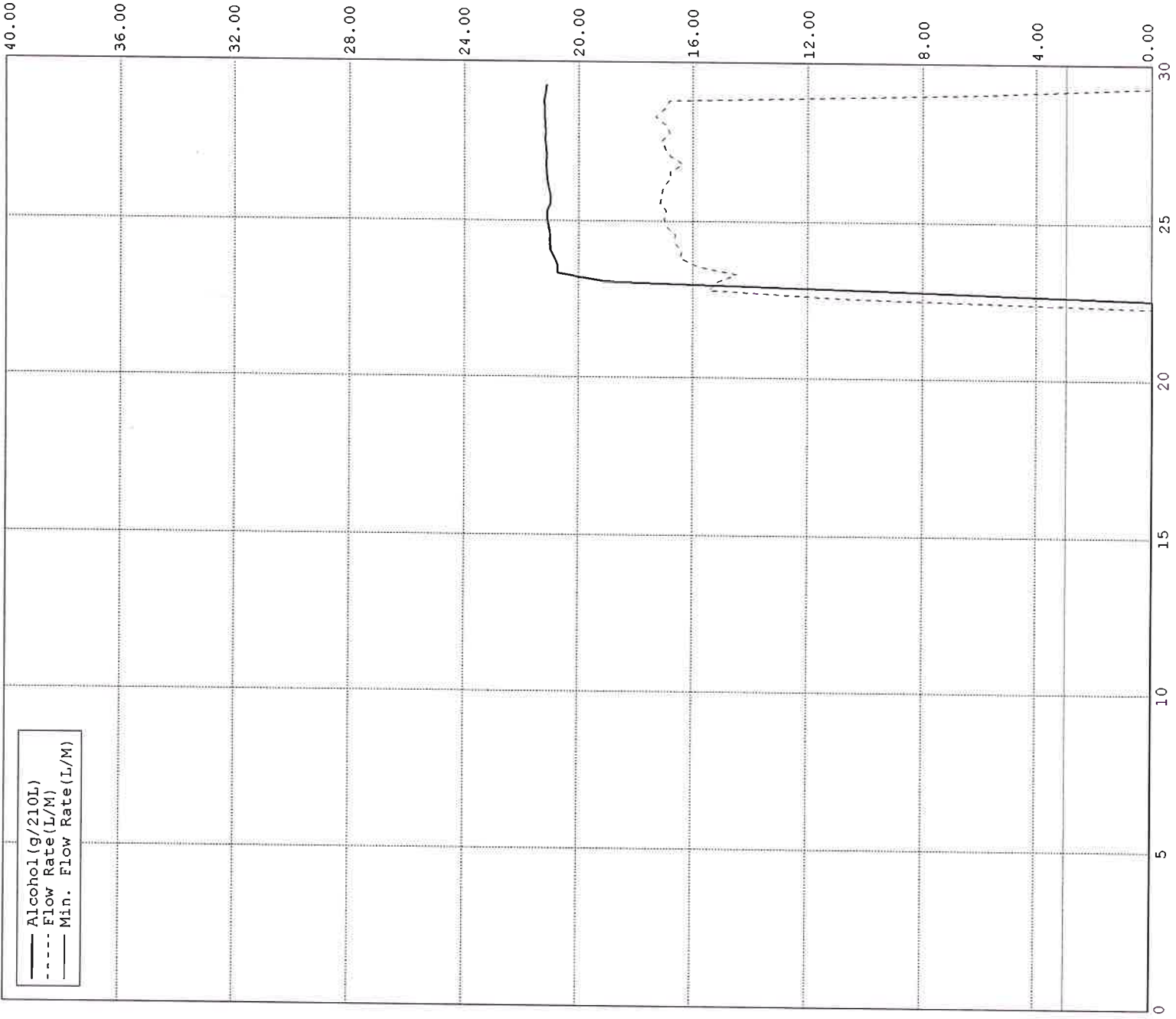
DIAGNOSTIC CHECK	PASSED	15:35
BLANK TEST	0.000	15:36
INTERNAL STANDARD	VERIFIED	15:36
Xq = 0.104 (0.00%)		
EXTERNAL STANDARD	0.077	15:36
X[1] = 0.0768 (-0.0026)	(0.0029)	
BLANK TEST	0.000	15:37
SUBJECT SAMPLE	XXX	15:37
X[1] = 0.1053 (-0.0210)	(0.0012)	

Interference Detected

Filter 2 Avg = -0.0020

Filter 3 Avg = 0.0031

COB 2022.10.17



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100366

Date: 10/12/2022
Time: 15:42:12

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

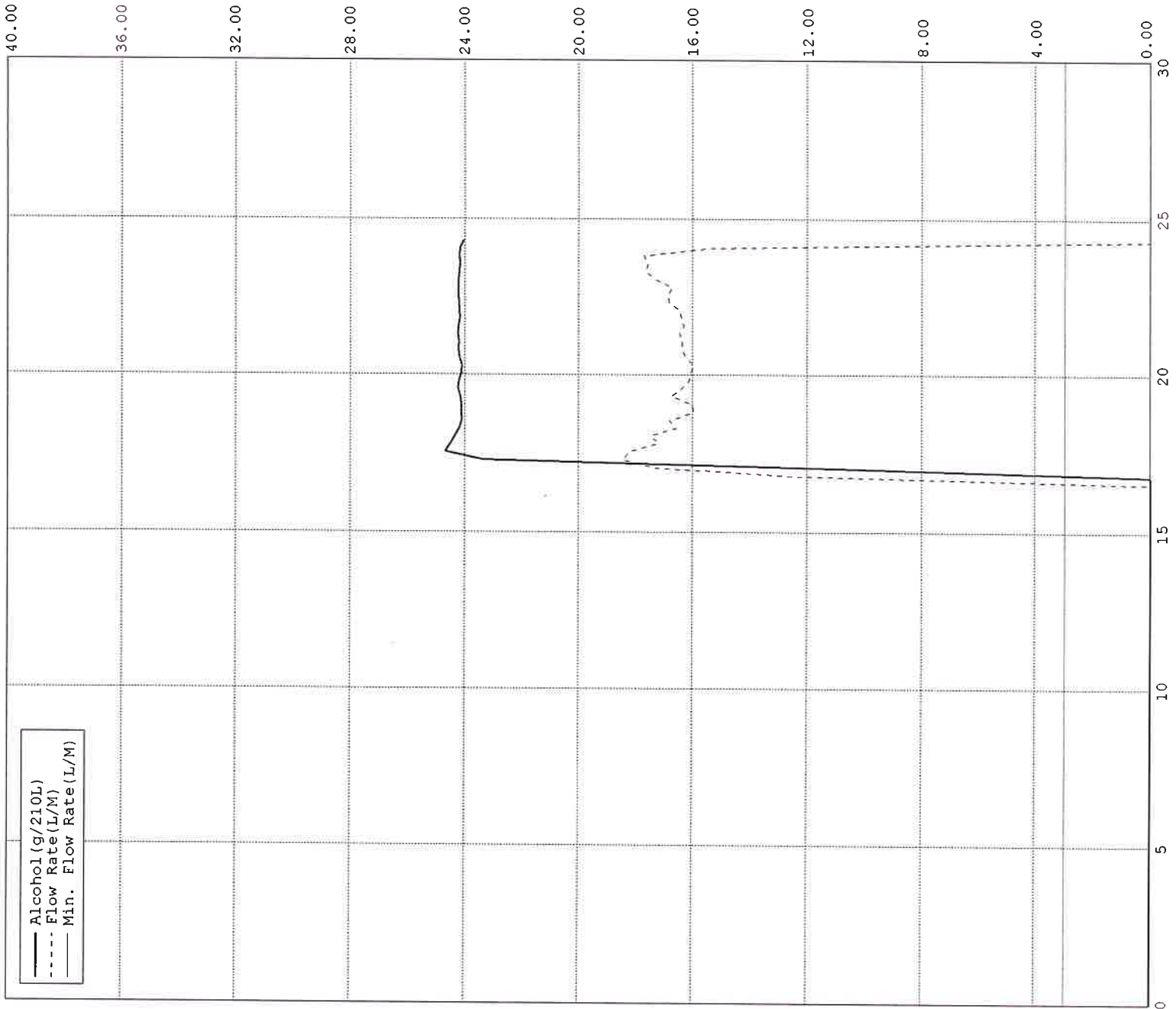
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.40: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 15:44
BLANK TEST 0.000 15:45
INTERNAL STANDARD VERIFIED 15:45
Xq = 0.104 (0.34%) 0.077 15:45
EXTERNAL STANDARD X[1] = 0.0772 (-0.0016) (0.0026)
BLANK TEST 0.000 15:46
SUBJECT SAMPLE XXX 15:46
X[1] = 0.1193 (-0.0270) (0.0032)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 10/12/2022
Time: 15:24:38

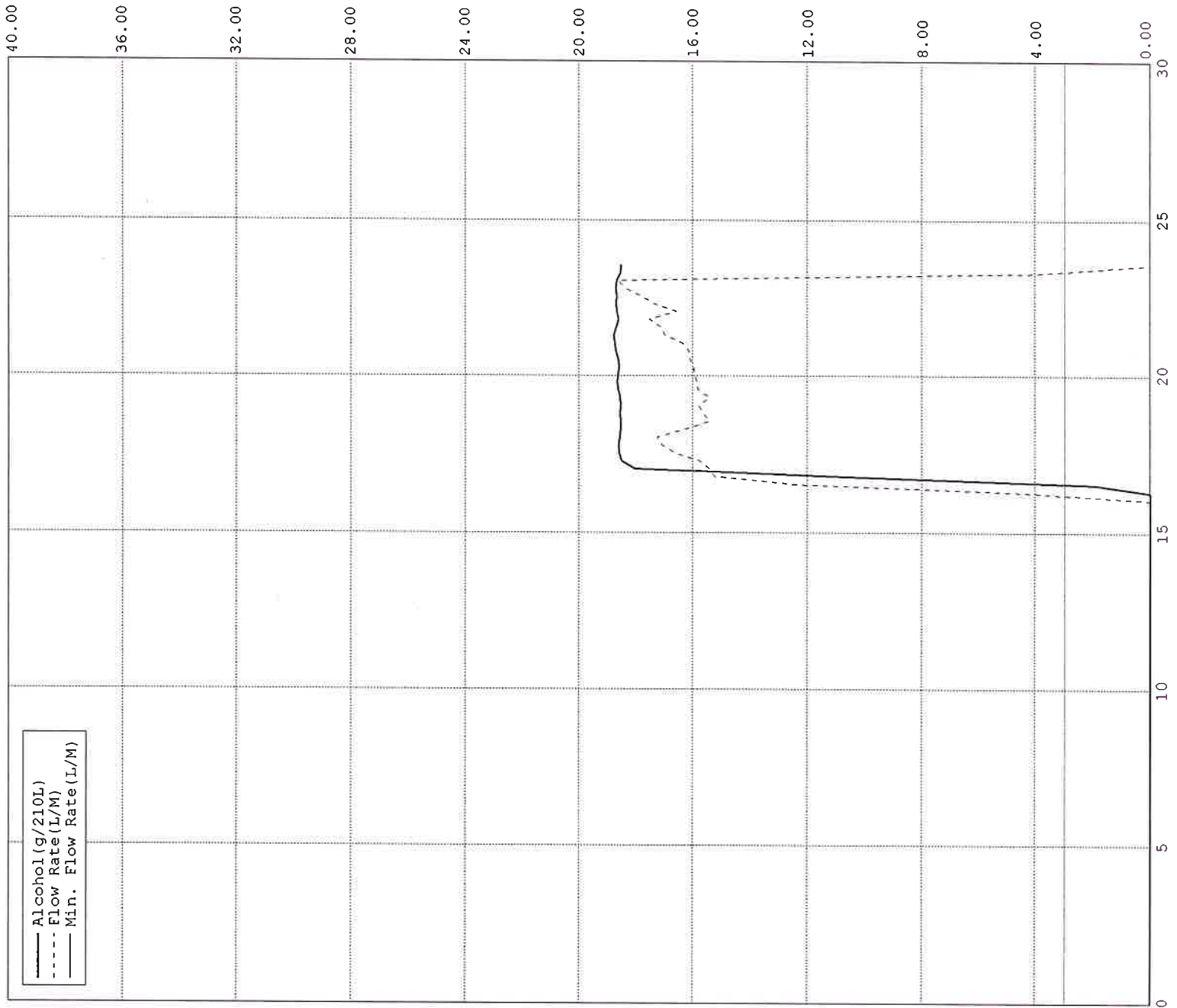
SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.41: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	15:25
BLANK TEST	0.000	15:25
INTERNAL STANDARD	VERIFIED	15:25
$x_g = 0.103$ (0.84%)		
EXTERNAL STANDARD	0.077	15:26
$x[1] = 0.0766$ (-0.0023) (0.0036)		
BLANK TEST	0.000	15:27
SUBJECT SAMPLE (Vol=1.88L)	0.092	15:27
$x[1] = 0.0926$ (-0.0008) (0.0023)		
BLANK TEST	0.000	15:28
EXTERNAL STANDARD	0.077	15:28
$x[1] = 0.0770$ (-0.0014) (0.0033)		
BLANK TEST	0.000	15:29



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100366

Date: 10/13/2022
Time: 07:07:35

SUBJECT NAME:
TEST TEST
LICENSE #: NON DRINKING

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 22-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.40: 0.079
LOT #: AG113402
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	07:08
BLANK TEST	0.000	07:08
INTERNAL STANDARD	VERIFIED	07:08
EXTERNAL STANDARD	0.077	07:09
BLANK TEST	0.000	07:10
SUBJECT SAMPLE (Vol=2.33L)	0.000	07:10
BLANK TEST	0.000	07:11
EXTERNAL STANDARD	0.078	07:11
BLANK TEST	0.000	07:12

