

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100361 Analyst: C. O'Bryen Start Date: 11/23/21

- Diagnostic Test (attached)
- Adjust voltages, if needed
 - Lamp (2.6V Maximum)
 - Bias
 - Cooler (2.0V Maximum)
- Internal Standard value \leq 3.00%
 - Chopper Frequency
 - Detector Voltage (-0.100V to 0.100V)

- Set RFI Sensitivity
- Adjust barometer reading to match NIST traceable barometer
- Adjust volume setting, if needed (1.5L +/- 0.1L)
- Print Technician Screen (attached)
- Print Calibration Factors (attached)
- Minimum Volume Test 1.4 L (1.3L to 1.7L)

Linearity Test (attached)

0.020g/210L Mnf: Aerigas Lot: AG100401 Exp: 1/4/23
0.040g/210L Mnf: Aerigas Lot: AG111710 Exp: 4/27/23
0.080g/210L Mnf: Aerigas Lot: AG018102 Exp: 6/29/22
0.100g/210L Mnf: Aerigas Lot: AG108404 Exp: 3/25/23
0.200g/210L Mnf: Guth Lot: 20510 Exp: 12/3/22
Simulator S/N: DR4161 Date Calibrated: 6/16/21
0.300g/210L Mnf: Guth Lot: 21030 Exp: 2/2/23
Simulator S/N: SD1202 Date Calibrated: 6/15/21

Functional Tests (attached)

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

Acetone Mnf: LifeLoc Lot: 21DP41158 Level: 0.100 Exp: 4/29/23
Simulator S/N: SD1177 Date Calibrated: 6/15/21
Isopropanol Mnf: LifeLoc Lot: 21DP41158 Level: 0.100 Exp: 4/29/23
Simulator S/N: SD1198 Date Calibrated: 6/15/21
Neg. Control Mnf: LifeLoc Lot: 21DP41158 Level: 0.100 Exp: 4/29/23
Simulator S/N: SD1088 Date Calibrated: 6/15/21

- Verify stylus is calibrated
- Reset Options
- Clear Memory
- Verification of Calibration
- Non-Drinking Subject Test
- Upload
- Remove Tank Prior to Shutdown
- Add Linearity Data to Spreadsheet

End Date: 11/24/21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 11/23/2021
Time: 07:11:11

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 44.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.92 V PASSED
(1.17 V - 2.73 V)
Cooler Voltage = 1.89 V PASSED
(1.01 V - 2.35 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 523 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.863 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 PASSED

Xq = 0.087 1.39% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100361

Date: 11/23/2021
Time: 3:20 PM

Temperatures (°C)

Sample Cell: 48.8°C
Breath Tube: 43.4°C

Current Barometer 29.4 in
Volume (Ltr) 1.55

Settings

Lamp: 1.87 V
Bias: 80 V
Cooler: 1.89 V
Chopper: 523 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.079 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 04/23/2021
Time: 09:19:31

OPERATOR NAME:
NPAS TECH
CERTIFICATE #: G12921/20490

Ca = 0.1000
CAL = 0.999458 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0060 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xq = 0.0877 0.0500 <= Xq < 0.2000
a21 = 1.187326 1.050 <= a21 < 1.300
a31 = 0.501823 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 11/23/2021
Time: 15:21:05

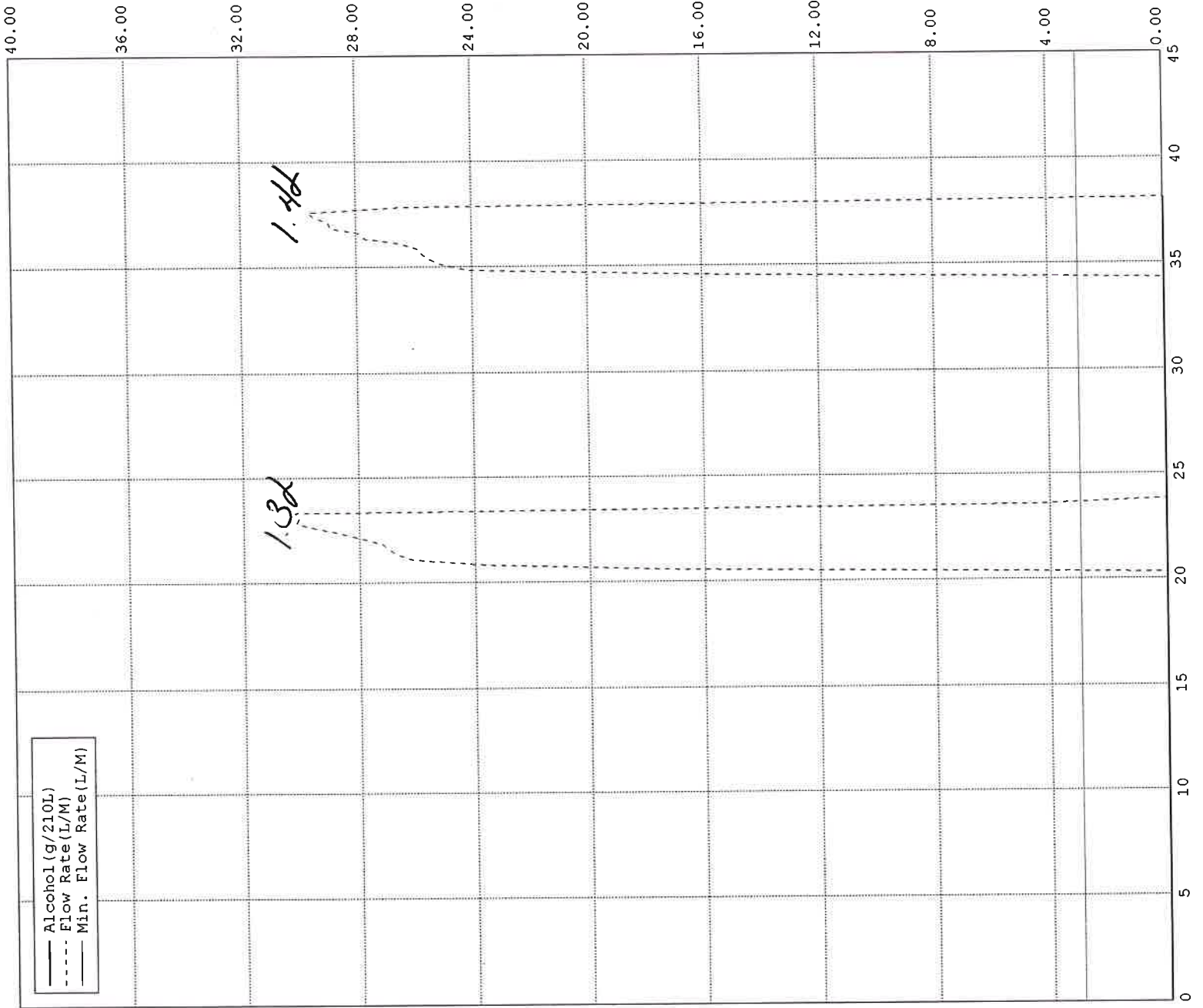
SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.36: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	15:22
BLANK TEST	0.000	15:22
INTERNAL STANDARD	VERIFIED	15:22
EXTERNAL STANDARD	0.079	15:22
BLANK TEST	0.000	15:23
SUBJECT SAMPLE (Vol=1.53L)	0.000	15:24
BLANK TEST	0.000	15:25
EXTERNAL STANDARD	0.078	15:25
BLANK TEST	0.000	15:26



LINEARITY CHECK

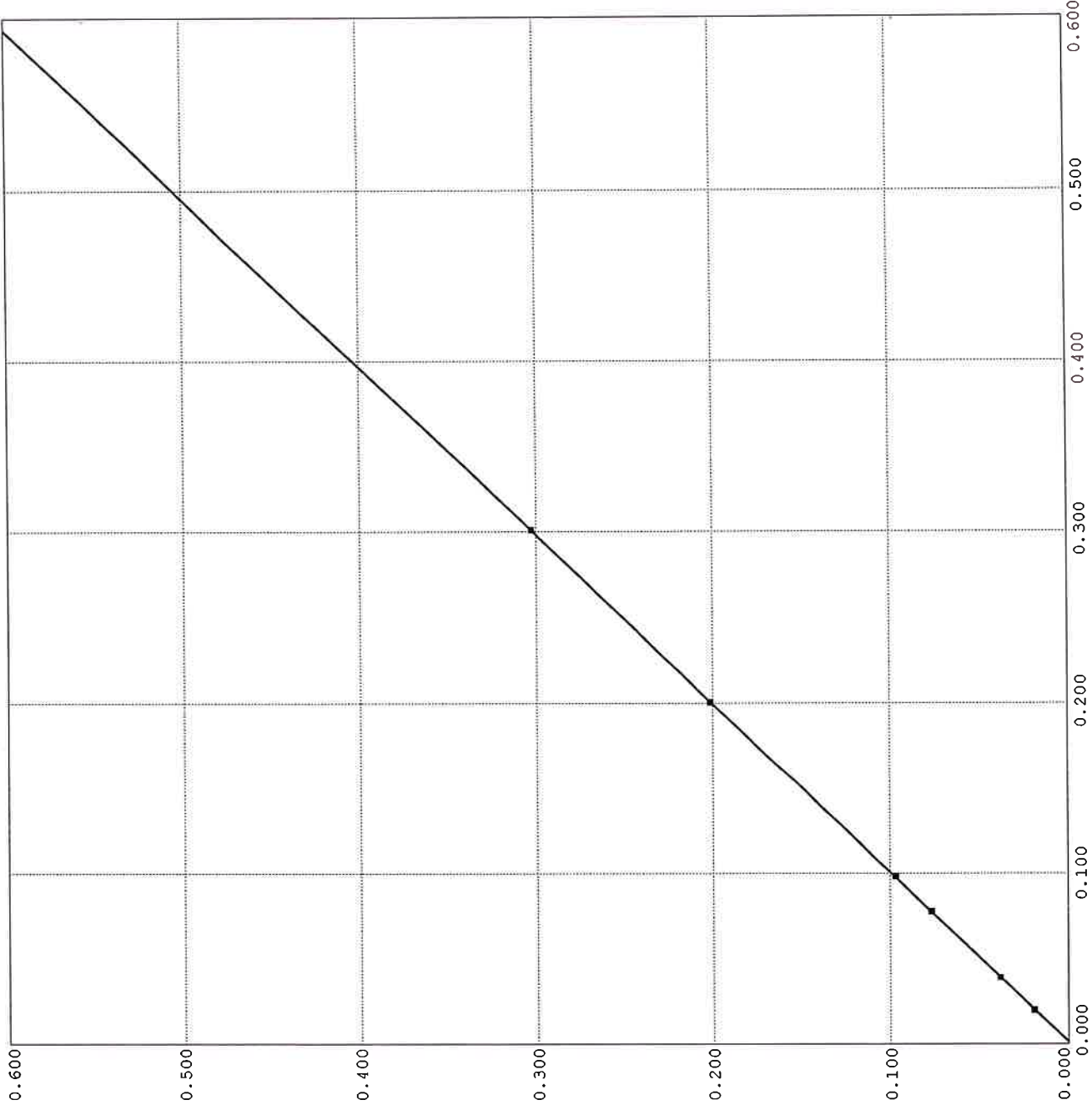
Alaska Department of Public Safety
 DATAMASTER dmt: 100361

Date: 11/23/2021
 Time: 15:28:21

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.039	0.0390	0.0000
0.078	0.0778	0.0004
0.098	0.0978	0.0004
0.200	0.2022	0.0004
0.300	0.3034	0.0011

SLOPE = 1.014040
 R² = 0.999983



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100361

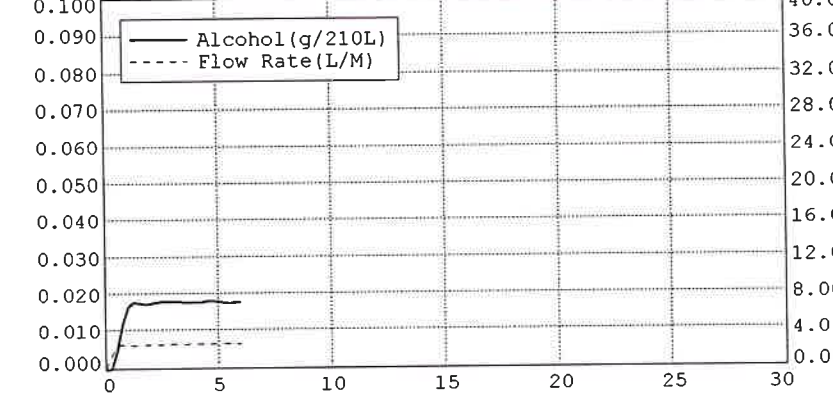
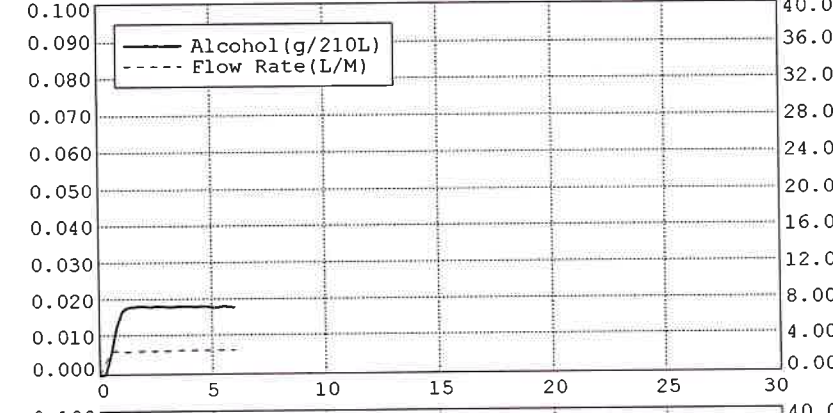
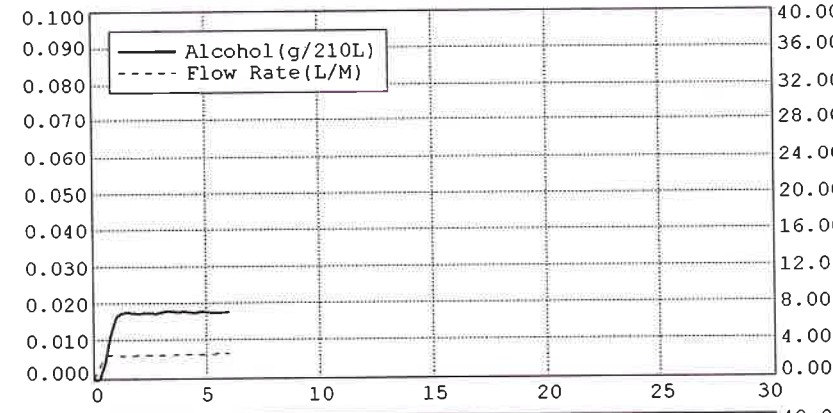
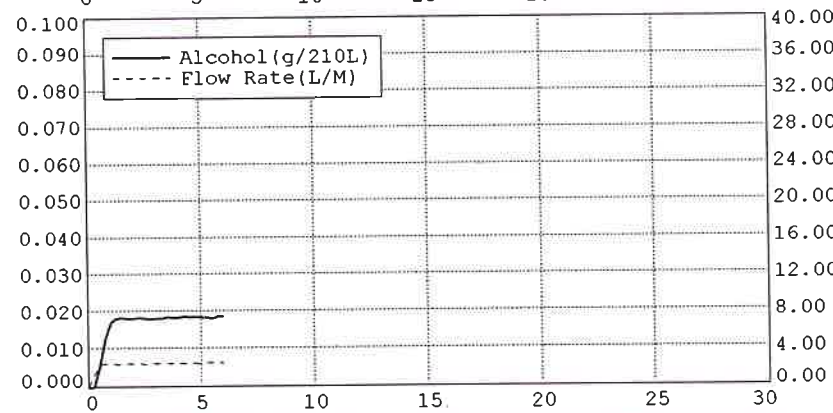
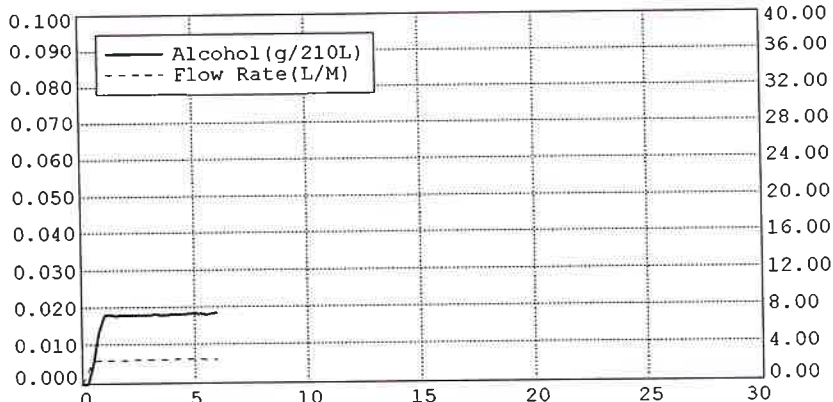
Date: 11/23/2021
Time: 15:28:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.34: 0.020
LOT #: AG100401
EXPIRATION: 01/04/2023
TANK PRESSURE: 967 psi

BLANK TEST	0.000	15:42
INTERNAL STANDARD	VERIFIED	15:42
EXTERNAL STANDARD	0.020	15:43
BLANK TEST	0.000	15:43
EXTERNAL STANDARD	0.020	15:44
BLANK TEST	0.000	15:45
EXTERNAL STANDARD	0.019	15:45
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.020	15:46
BLANK TEST	0.000	15:47
EXTERNAL STANDARD	0.020	15:47
BLANK TEST	0.000	15:48

Average = 0.0198
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100361

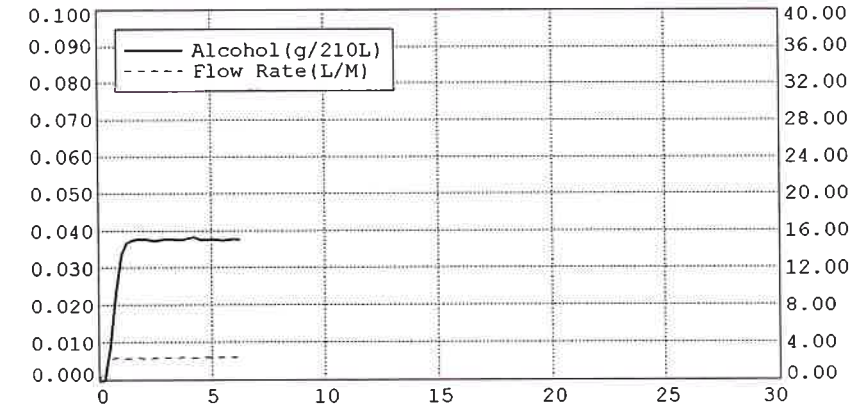
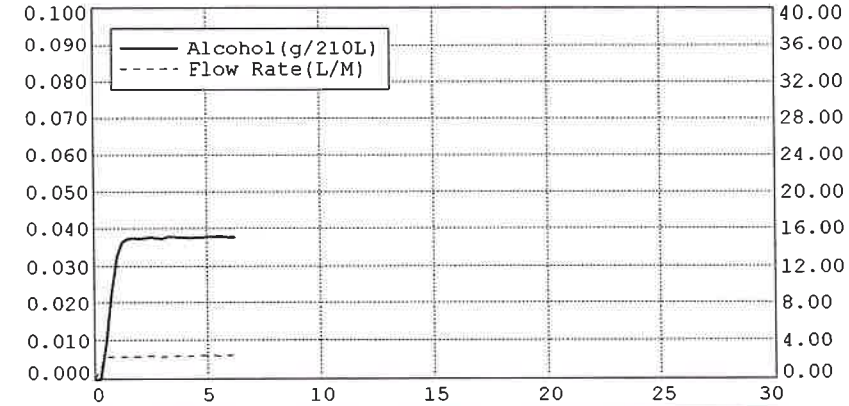
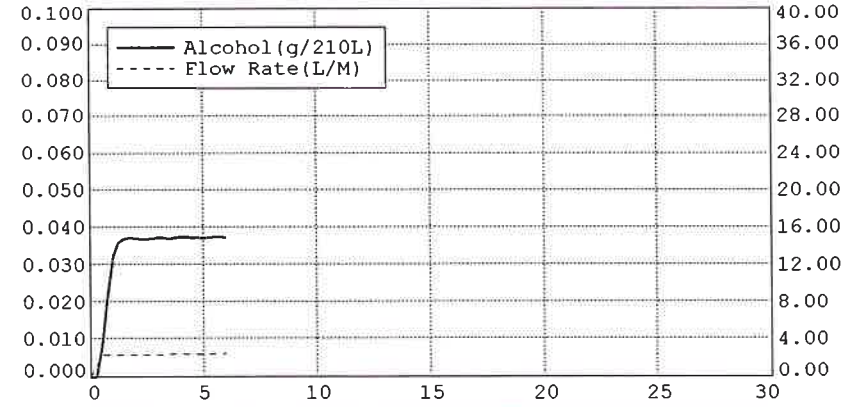
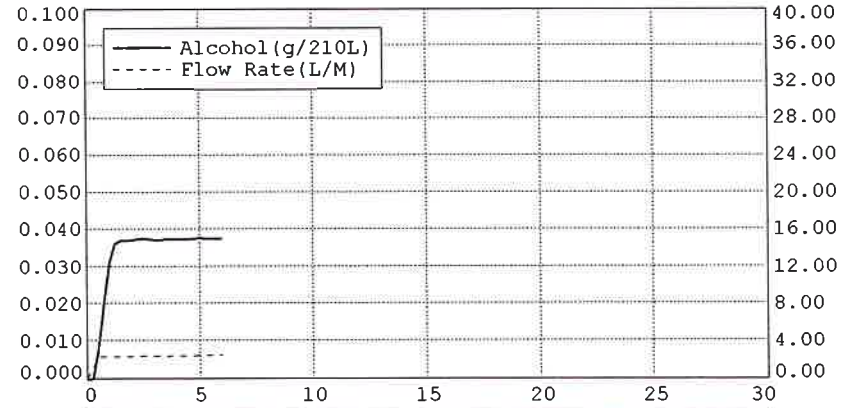
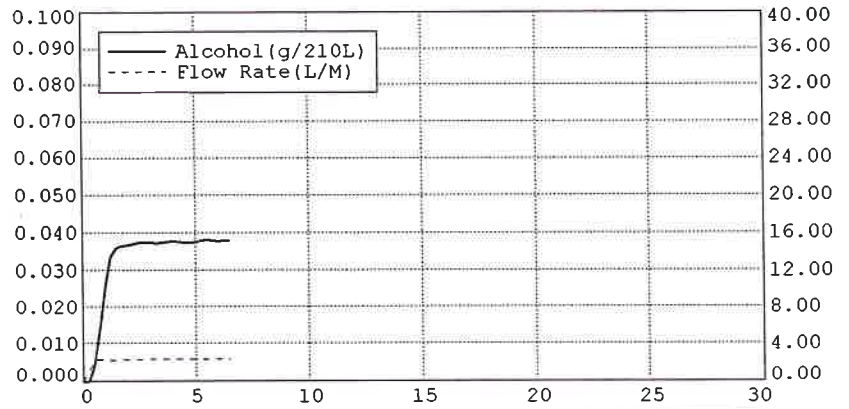
Date: 11/23/2021
Time: 15:51:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.33: 0.039
LOT #: AG111710
EXPIRATION: 04/27/2023
TANK PRESSURE: 625 psi

BLANK TEST	0.000	15:52
INTERNAL STANDARD	VERIFIED	15:52
EXTERNAL STANDARD	0.039	15:52
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.039	15:53
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.039	15:54
BLANK TEST	0.000	15:55
EXTERNAL STANDARD	0.039	15:55
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.039	15:57
BLANK TEST	0.000	15:57

Average = 0.0390
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100361

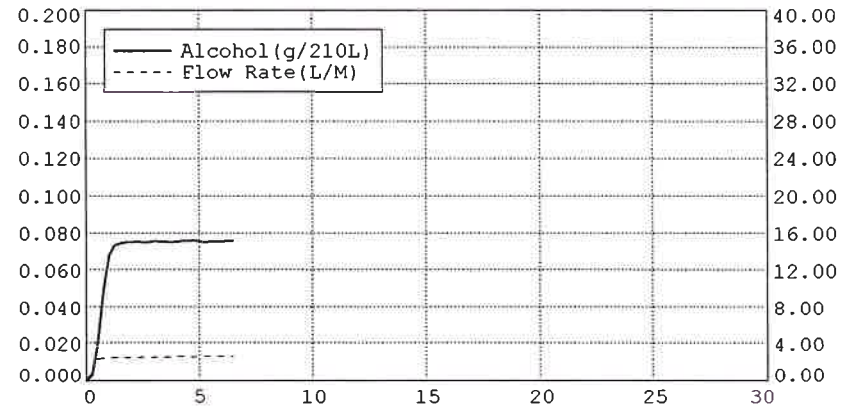
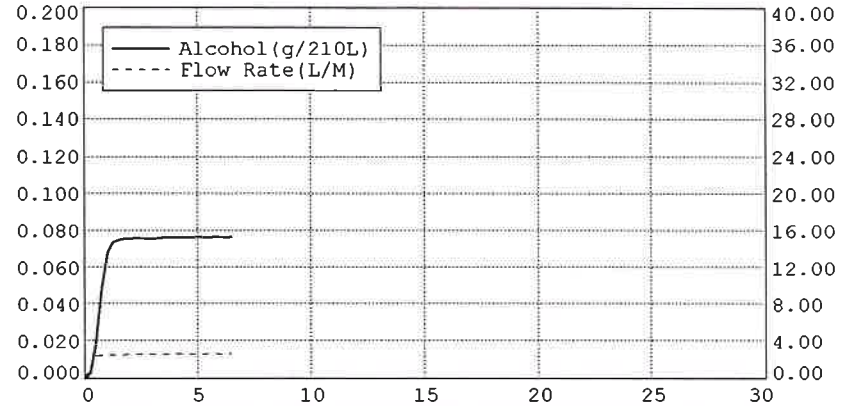
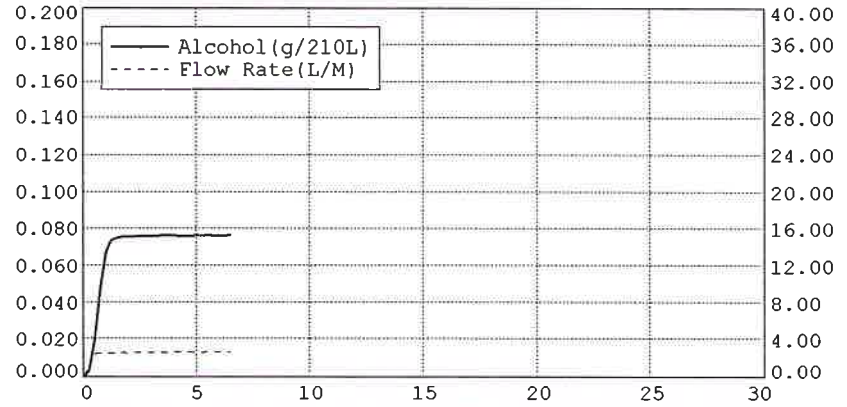
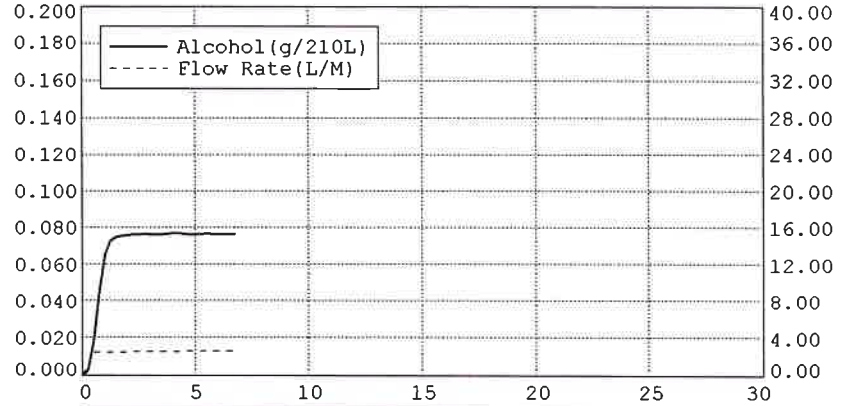
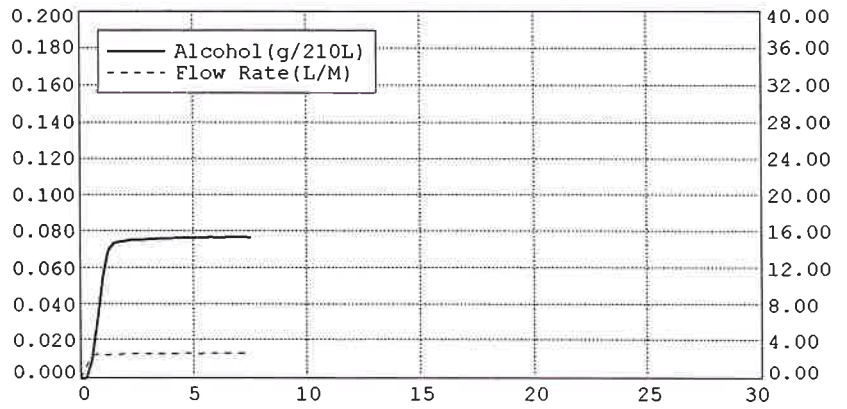
Date: 11/23/2021
Time: 15:58:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.34: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1079 psi

BLANK TEST	0.000	15:59
INTERNAL STANDARD	VERIFIED	16:00
EXTERNAL STANDARD	0.078	16:00
BLANK TEST	0.000	16:01
EXTERNAL STANDARD	0.078	16:01
BLANK TEST	0.000	16:02
EXTERNAL STANDARD	0.078	16:02
BLANK TEST	0.000	16:03
EXTERNAL STANDARD	0.078	16:03
BLANK TEST	0.000	16:04
EXTERNAL STANDARD	0.077	16:04
BLANK TEST	0.000	16:05

Average = 0.0778
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

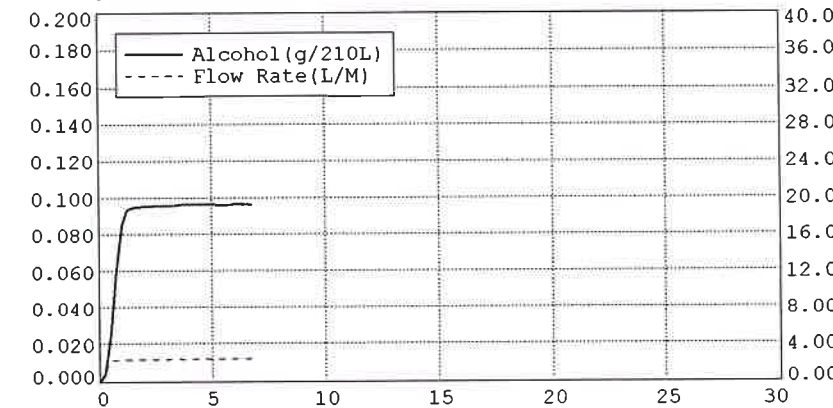
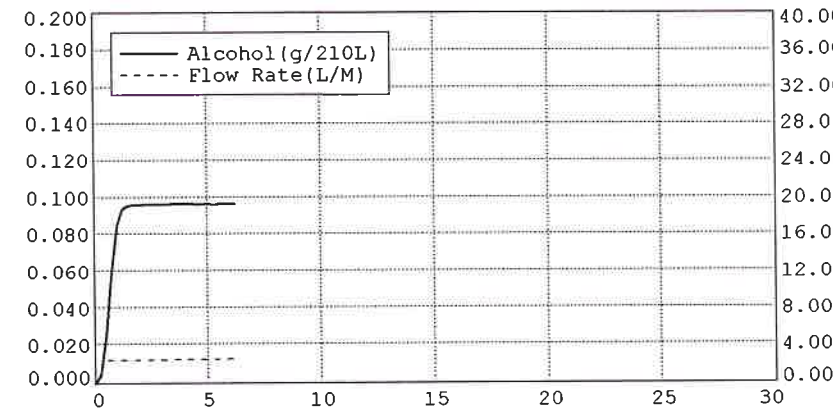
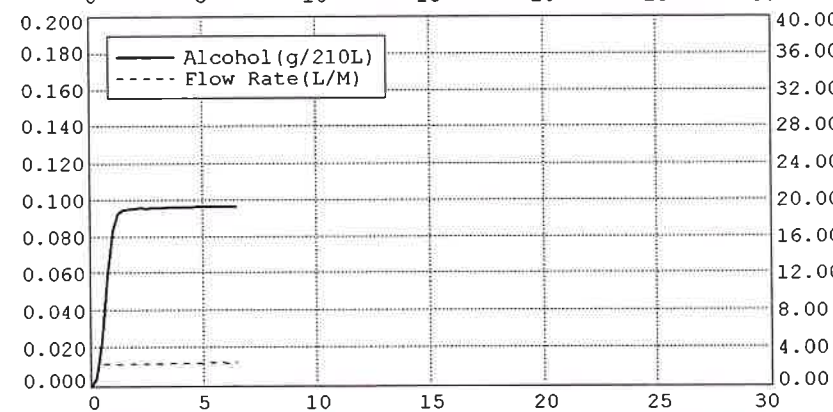
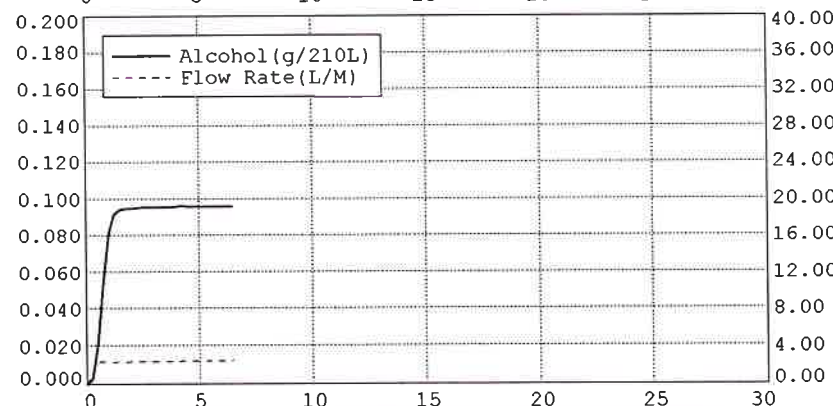
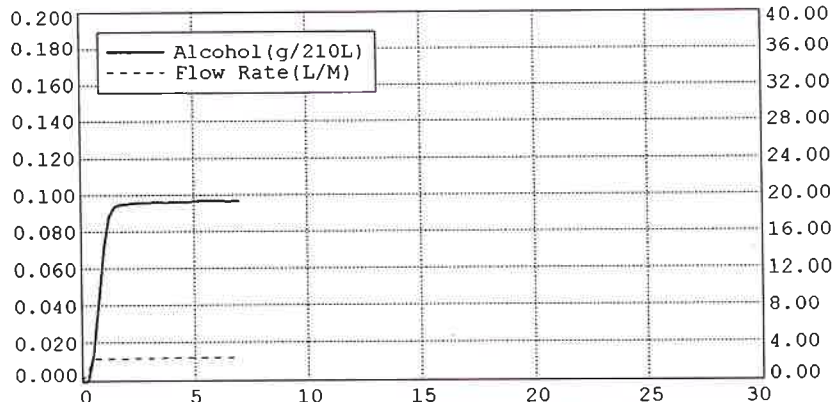
Date: 11/23/2021
 Time: 16:08:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.33: 0.098
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 720 psi

BLANK TEST	0.000	16:10
INTERNAL STANDARD	VERIFIED	16:10
EXTERNAL STANDARD	0.098	16:10
BLANK TEST	0.000	16:11
EXTERNAL STANDARD	0.097	16:11
BLANK TEST	0.000	16:12
EXTERNAL STANDARD	0.098	16:12
BLANK TEST	0.000	16:13
EXTERNAL STANDARD	0.098	16:13
BLANK TEST	0.000	16:14
EXTERNAL STANDARD	0.098	16:14
BLANK TEST	0.000	16:15

Average = 0.0978
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

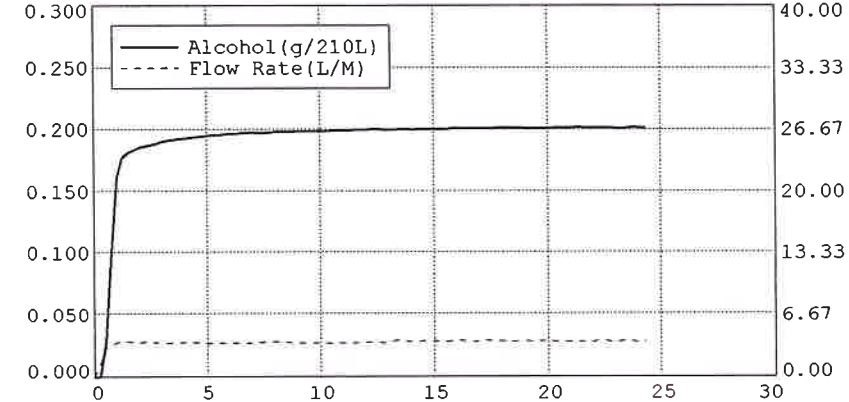
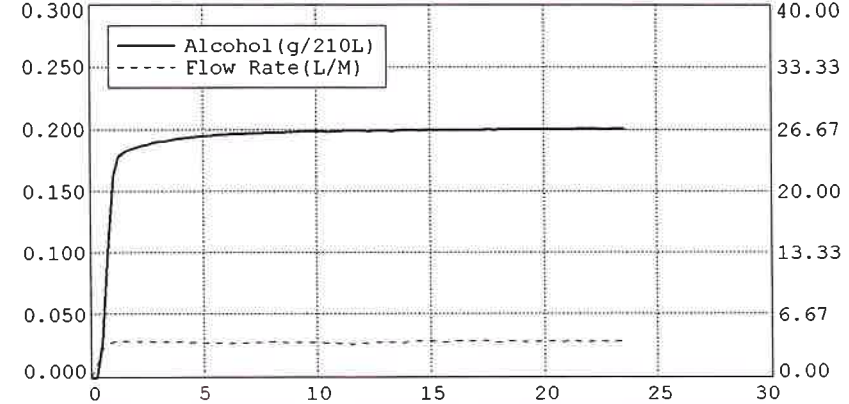
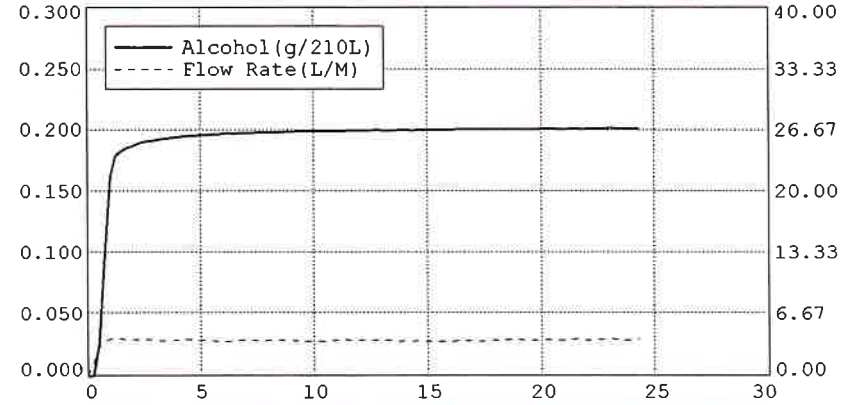
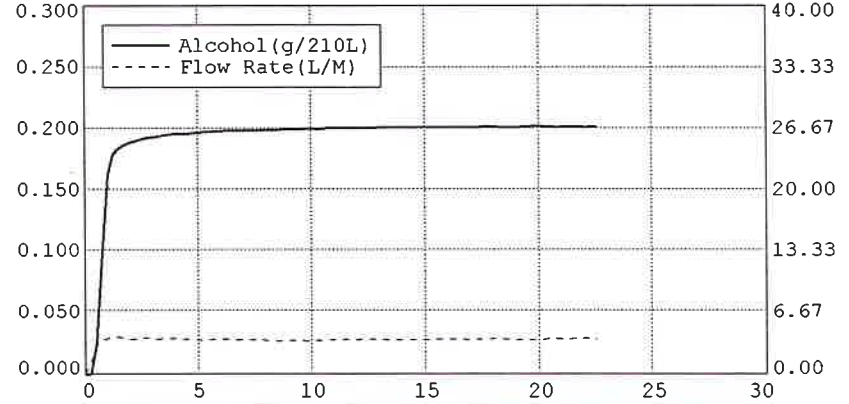
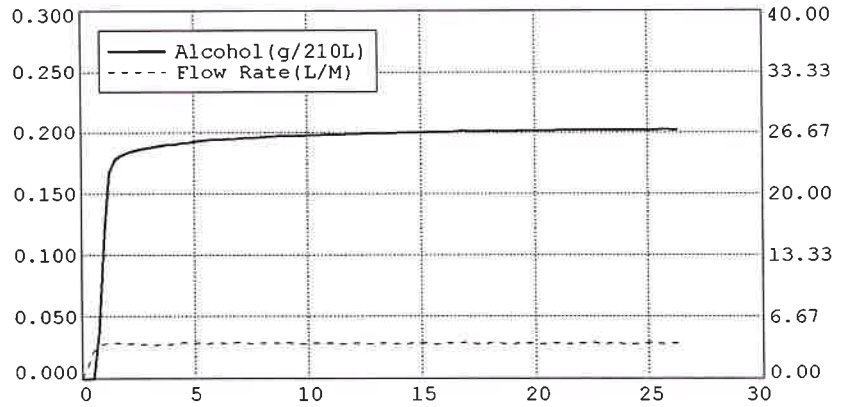
Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 11/23/2021
Time: 16:16:22

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
LOT #: 20510
EXPIRATION: 12/03/2022

BLANK TEST	0.000	16:17
INTERNAL STANDARD	VERIFIED	16:17
EXTERNAL STANDARD	0.203	16:18
BLANK TEST	0.000	16:19
EXTERNAL STANDARD	0.202	16:19
BLANK TEST	0.000	16:20
EXTERNAL STANDARD	0.202	16:21
BLANK TEST	0.000	16:22
EXTERNAL STANDARD	0.202	16:22
BLANK TEST	0.000	16:23
EXTERNAL STANDARD	0.202	16:24
BLANK TEST	0.000	16:24

Average = 0.2022
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

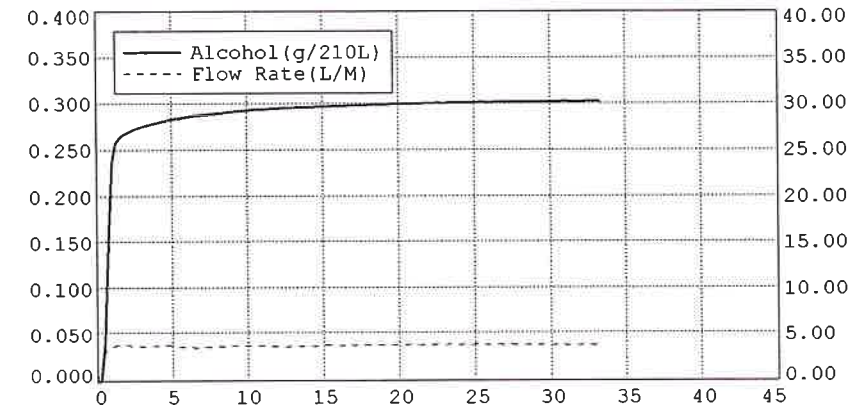
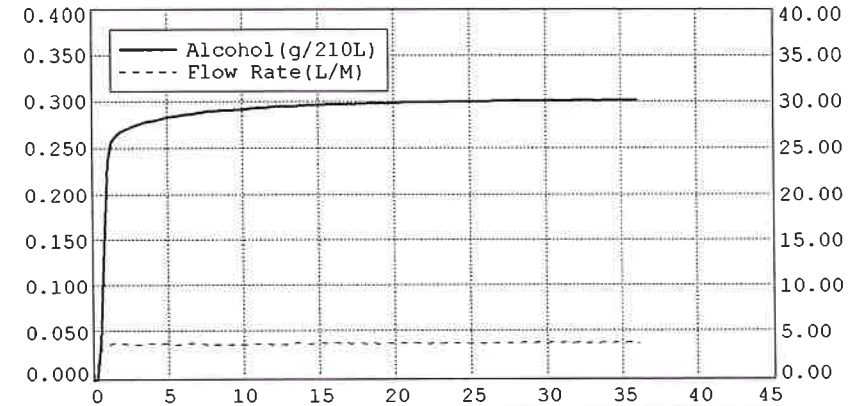
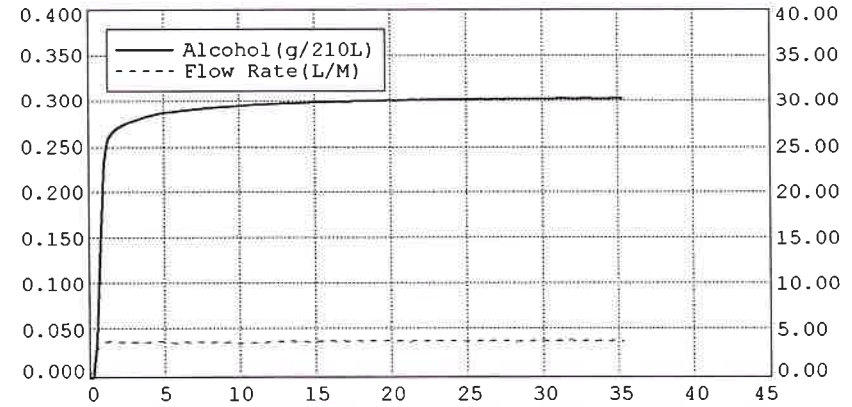
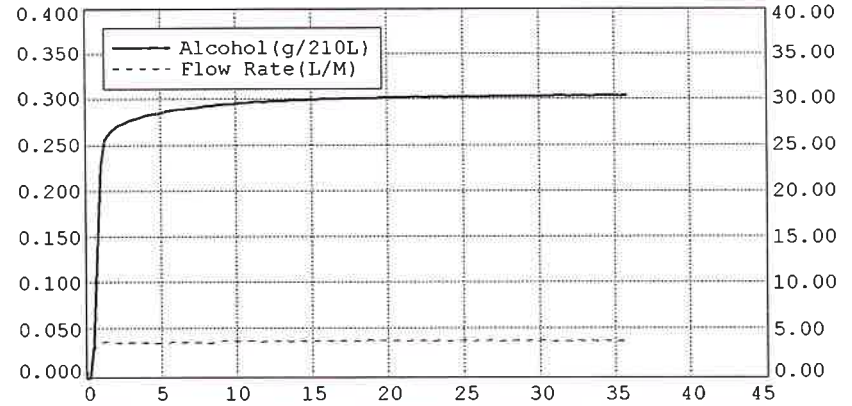
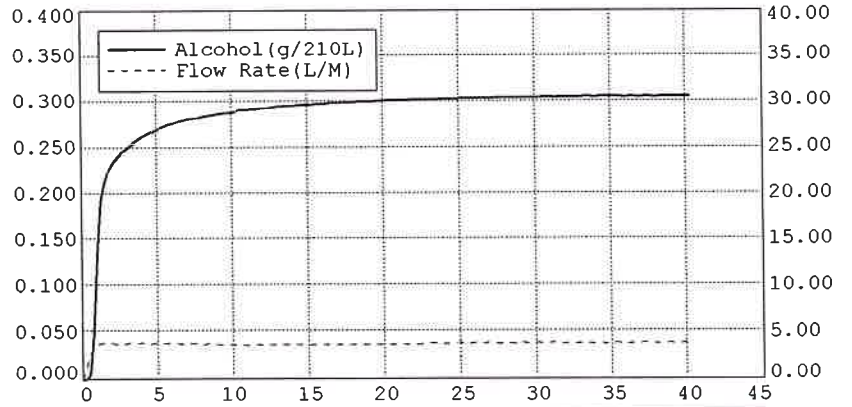
Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 11/23/2021
Time: 16:27:13

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
LOT #: 21030
EXPIRATION: 02/02/2023

BLANK TEST	0.000	16:28
INTERNAL STANDARD	VERIFIED	16:28
EXTERNAL STANDARD	0.305	16:29
BLANK TEST	0.000	16:30
EXTERNAL STANDARD	0.304	16:31
BLANK TEST	0.000	16:31
EXTERNAL STANDARD	0.303	16:32
BLANK TEST	0.000	16:33
EXTERNAL STANDARD	0.302	16:34
BLANK TEST	0.000	16:35
EXTERNAL STANDARD	0.303	16:35
BLANK TEST	0.000	16:36

Average = 0.3034
Std Dev = 0.0011



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100361

Date: 11/24/2021
Time: 11:10:54

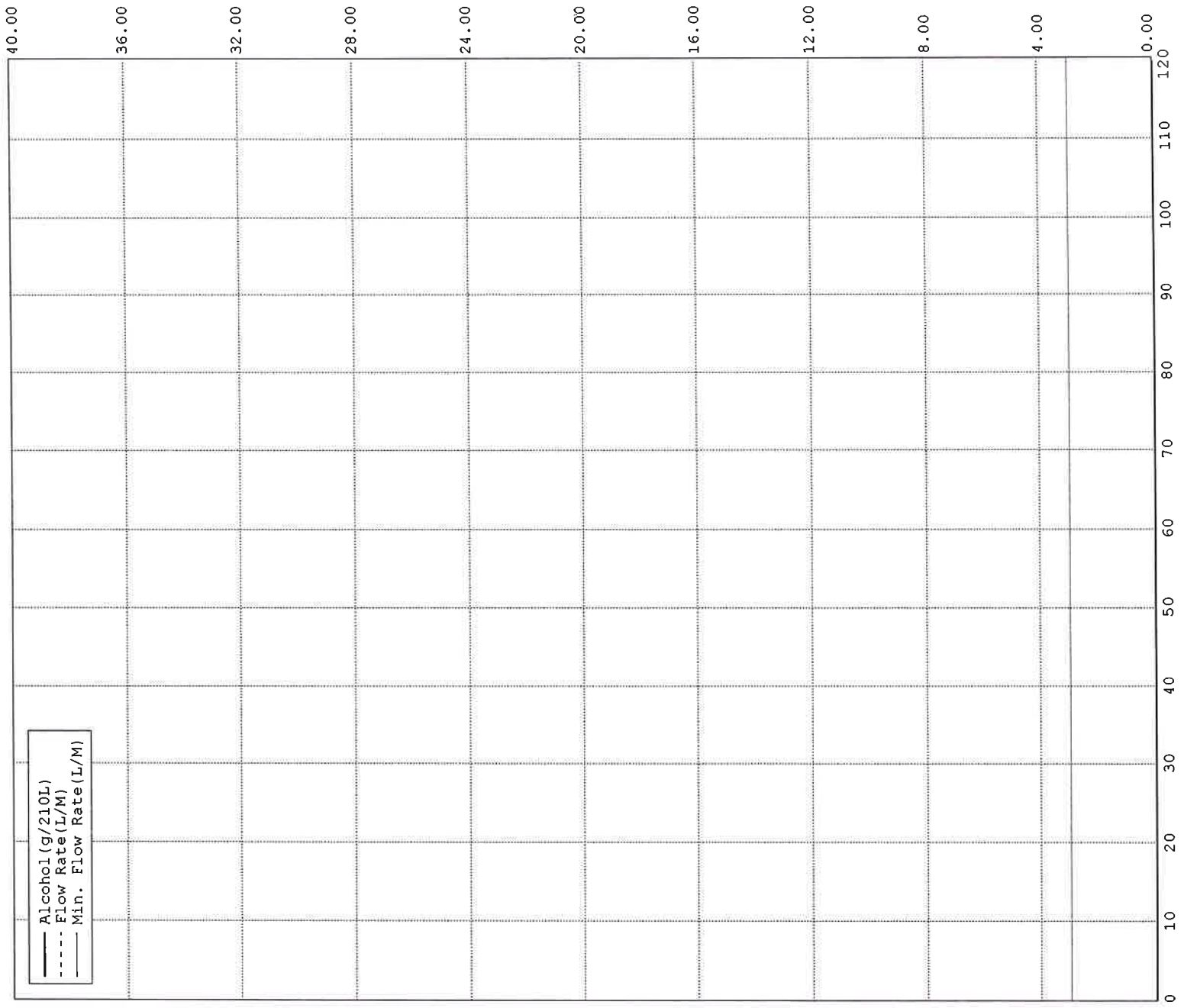
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAAI
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.96: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 11:12
BLANK TEST 0.000 11:12
INTERNAL STANDARD VERIFIED 11:12
EXTERNAL STANDARD 0.077 11:12
BLANK TEST 0.000 11:13
SUBJECT SAMPLE INCOMPLETE 11:15



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 11/24/2021
Time: 11:17:45

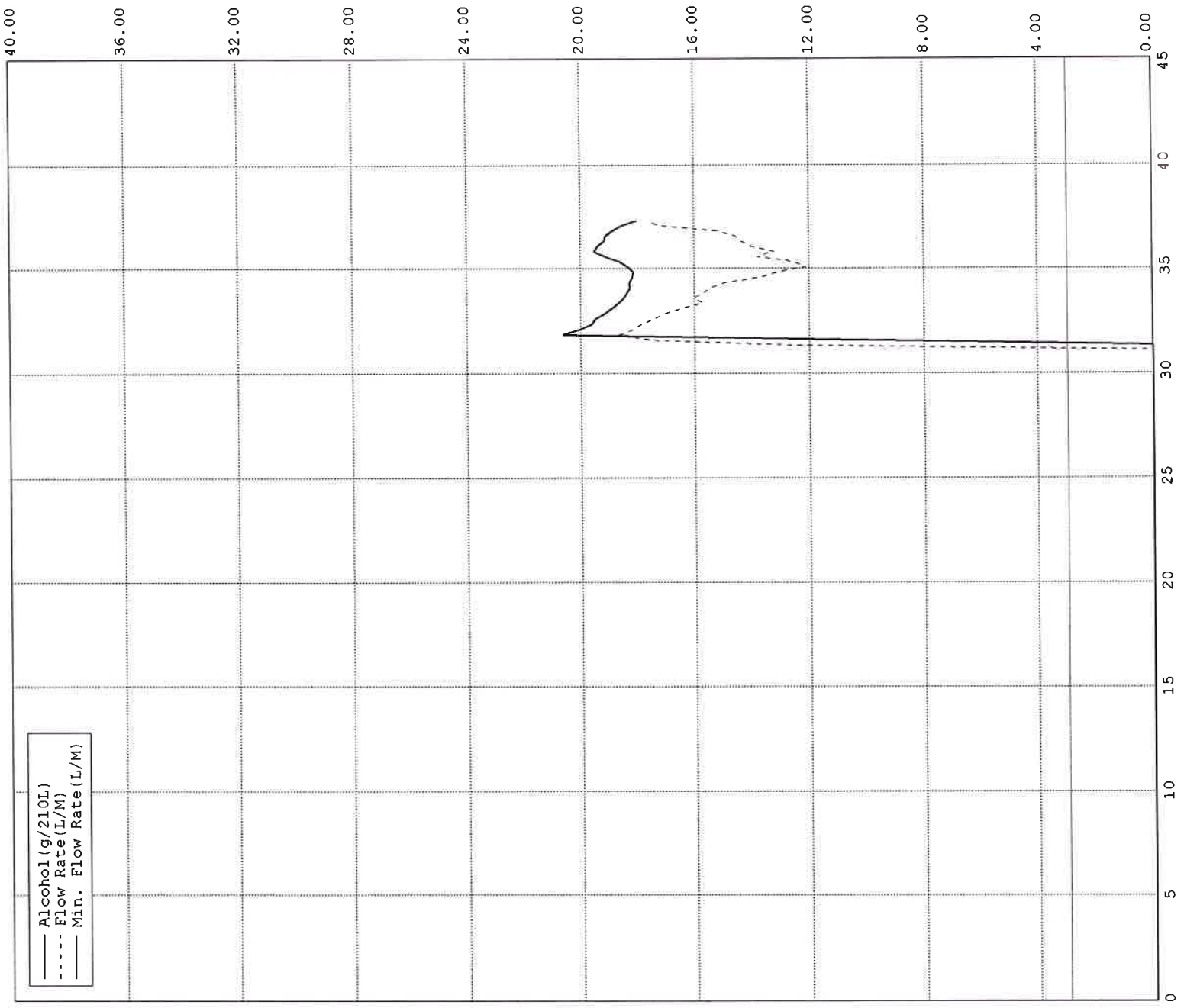
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.95: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 11:18
BLANK TEST 0.000 11:18
INTERNAL STANDARD VERIFIED 11:19
EXTERNAL STANDARD 0.077 11:19
BLANK TEST 0.000 11:20
SUBJECT SAMPLE INVALID 11:20



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 11/24/2021
Time: 11:35:34

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

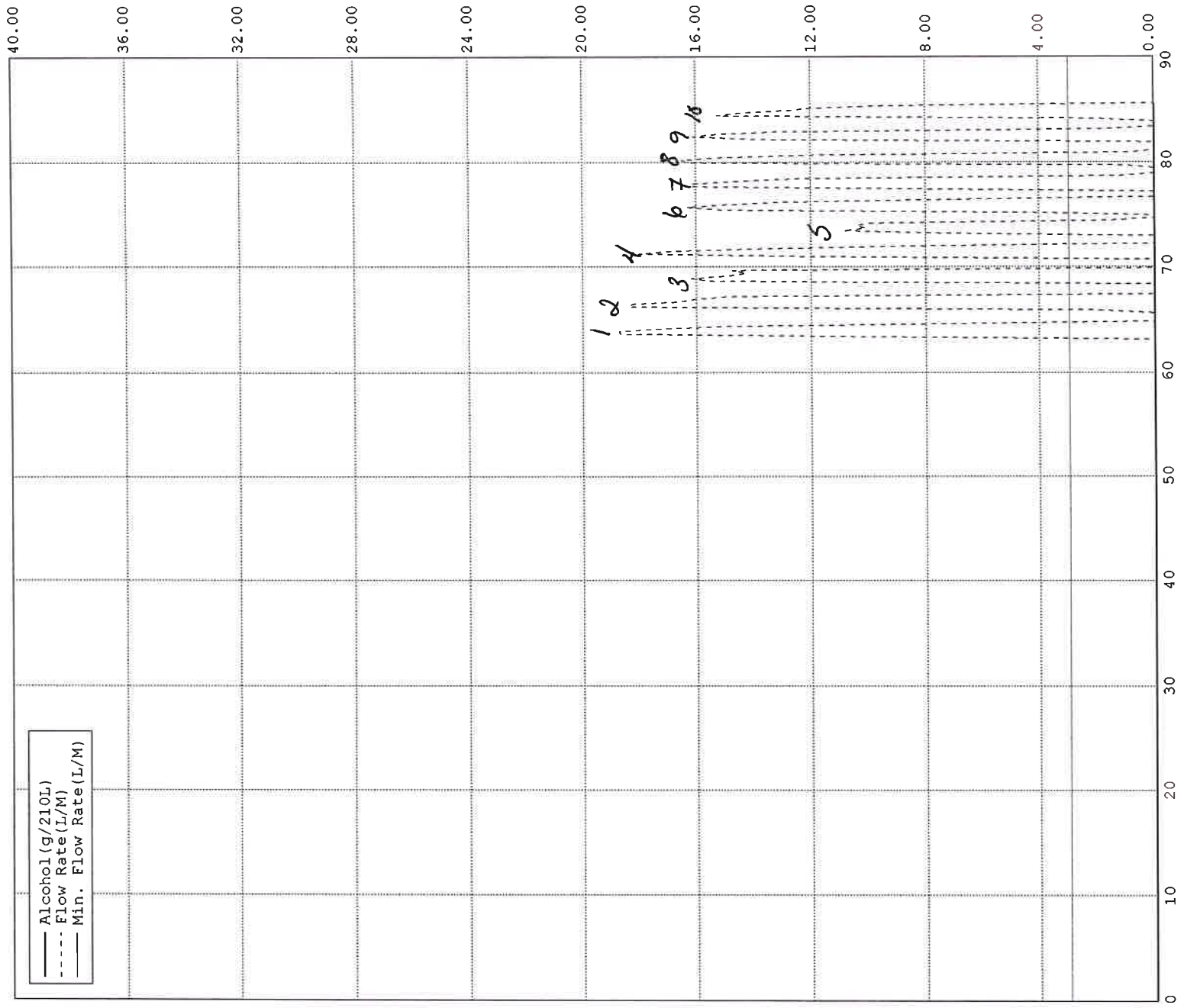
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.94: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 11:36
BLANK TEST 0.000 11:36
INTERNAL STANDARD VERIFIED 11:36
EXTERNAL STANDARD 0.076 11:37
BLANK TEST 0.000 11:37
SUBJECT SAMPLE XXX 11:39

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100361

Date: 11/24/2021
Time: 11:29:17

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

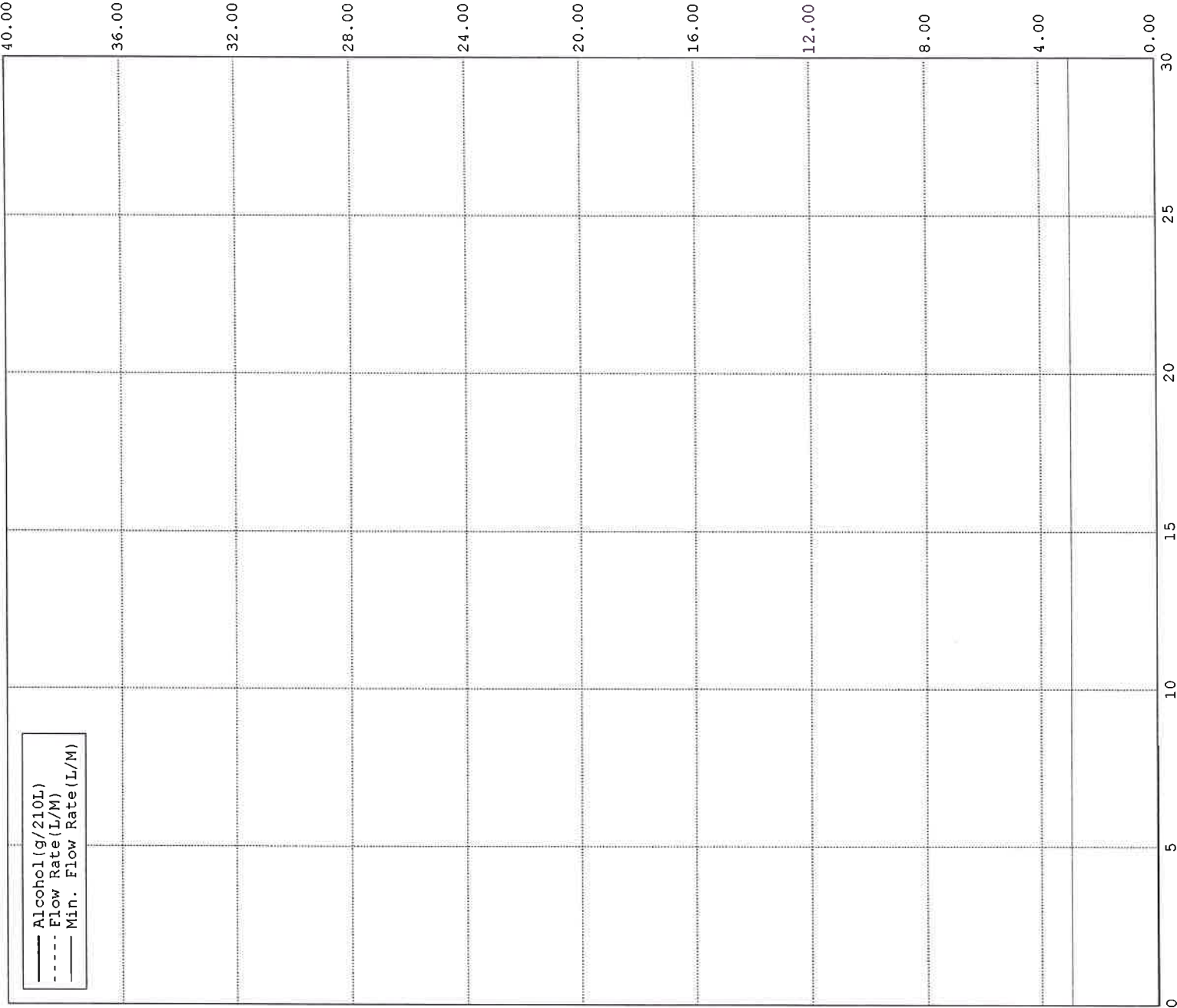
DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.94: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 11:31
BLANK TEST 0.000 11:31
INTERNAL STANDARD VERIFIED 11:31
EXTERNAL STANDARD 0.076 11:32
BLANK TEST 0.000 11:33

RFI DETECTED

CVB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100361

Date: 11/24/2021
Time: 11:49:52

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

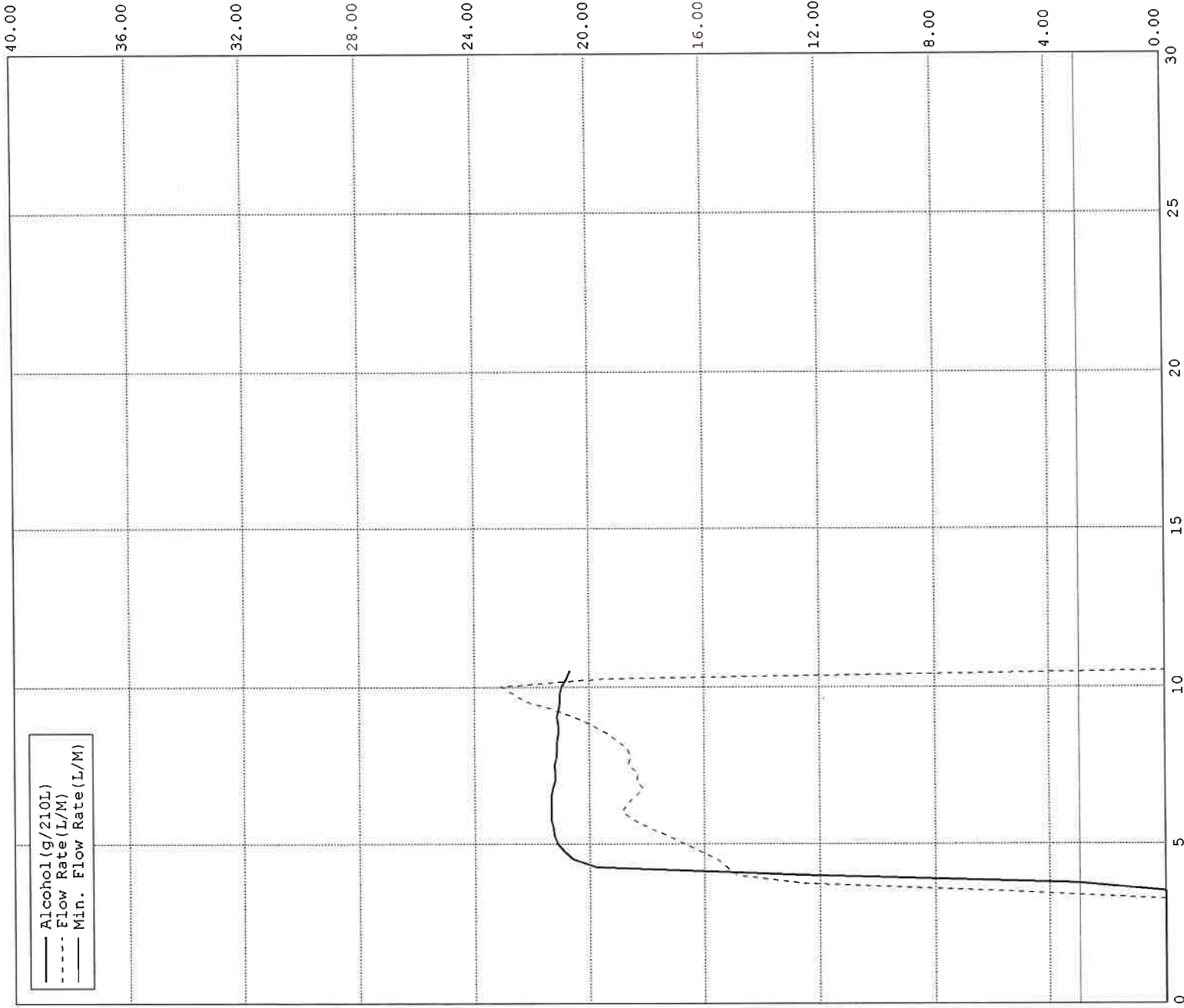
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.95: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 11:50
BLANK TEST 0.000 11:50
INTERNAL STANDARD VERIFIED 11:51
Xq = 0.087 (0.60%)
EXTERNAL STANDARD 0.077 11:51
X[1] = 0.0772 (-0.0018) (0.0019)
BLANK TEST 0.000 11:52
SUBJECT SAMPLE XXX 11:52
X[1] = 0.1045 (-0.0196) (0.0001)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 11/24/2021
Time: 12:23:59

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

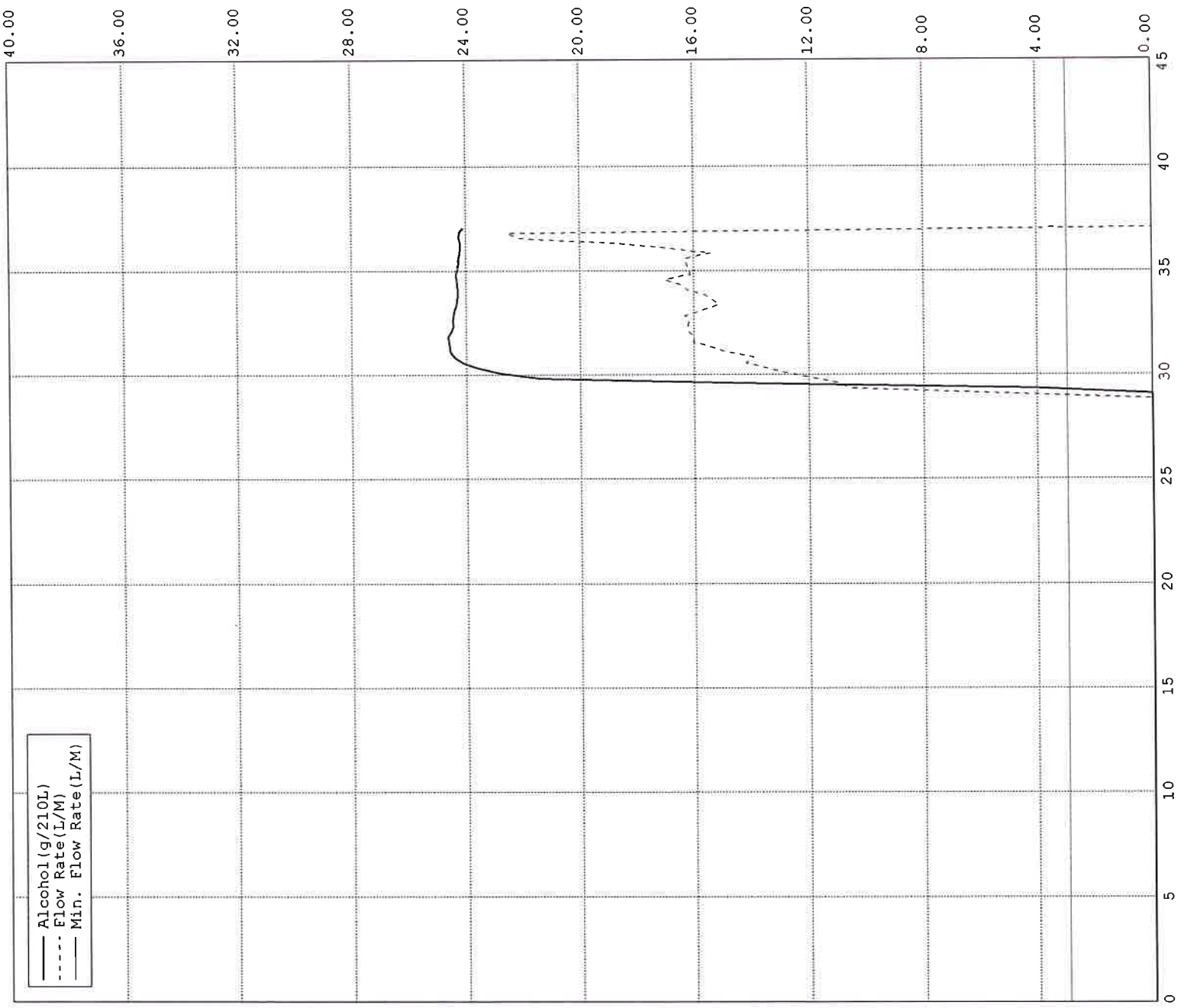
OPERATOR NAME:
COLLEEN S OBRyant
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.93: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:27
BLANK TEST	0.000	12:27
INTERNAL STANDARD	VERIFIED	12:27
Xq = 0.087 (0.89%)		
EXTERNAL STANDARD	0.077	12:27
X[1] = 0.0765 (-0.0016)	(0.0028)	
BLANK TEST	0.000	12:28
SUBJECT SAMPLE	XXX	12:29
X[1] = 0.1209 (-0.0286)	(0.0017)	

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 11/24/2021
Time: 12:33:44

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

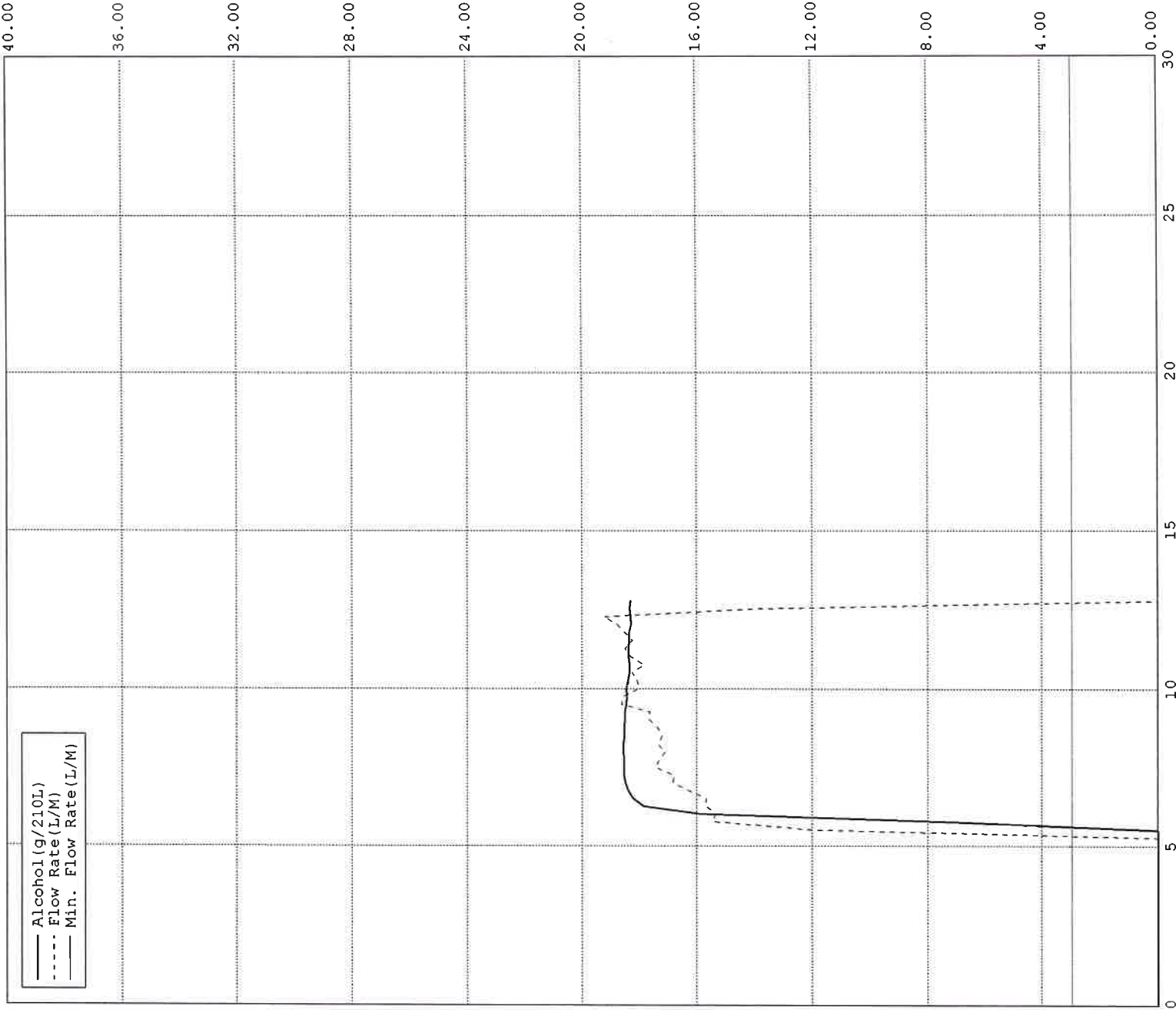
DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.93: 0.077
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	12:41
BLANK TEST	0.000	12:42
INTERNAL STANDARD	VERIFIED	12:42
Xq = 0.087 (0.79%)		
EXTERNAL STANDARD	0.077	12:42
X[1] = 0.0769 (-0.0016) (0.0025)		
BLANK TEST	0.000	12:43
SUBJECT SAMPLE (Vol=2.08L)	0.092	12:43
X[1] = 0.0929 (0.0000) (-0.0004)		
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.077	12:44
X[1] = 0.0766 (-0.0018) (0.0020)		
BLANK TEST	0.000	12:45

Filter 2 Avg = -0.0017

Filter 3 Avg = 0.0003



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100361

Date: 11/24/2021
Time: 14:22:15

SUBJECT NAME:

TEST TEST

LICENSE #: NON-DRINKING

OPERATOR NAME:

COLLEEN S O'BRYAN

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 21-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 28.89: 0.077

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	14:23
BLANK TEST	0.000	14:23
INTERNAL STANDARD	VERIFIED	14:23
EXTERNAL STANDARD	0.077	14:23
BLANK TEST	0.000	14:24
SUBJECT SAMPLE (Vol=2.05L)	0.000	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.077	14:26
BLANK TEST	0.000	14:27

