

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMCEF 2020 R0
Status: Active

Instrument S/N 100398 Analyst C. O. Bryant Start Date 10/4/21

Diagnostic Test (attached)

Internal Standard value $\leq 3.00\%$

Voltage Checks

Adjust voltages, if needed

i. Lamp (2.6V Maximum)

ii. Bias

iii. Cooler (2.0V Maximum)

iv. Chopper Frequency

v. Detector Voltage (-0.100V to 0.100V)

Set RFI

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)

Volume Test - Minimum 1.6 L (1.3L to 1.7L)

Linearity Test (attached)

Levels Used

i. 0.020g/210L Mnf Argas Lot AG 928203 Exp 10/9/21

ii. 0.040g/210L Mnf Argas Lot AG 111710 Exp 4/27/23

iii. 0.080g/210L Mnf Argas Lot AG 018102 Exp 6/29/22

iv. 0.100g/210L Mnf Argas Lot AG 108404 Exp 3/25/23

v. 0.200g/210L Mnf Guth Lot 20510 Exp 12/3/22

Simulator S/N DR4161 Date Calibrated 6/16/21

vi. 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

Interference

i. Acetone - Mnf Guth Lot 19301 Level 0.100 Exp 10/30/21

Simulator S/N SD1177 Date Calibrated 6/15/21

ii. Isopropanol - Mnf Guth Lot 19301 Level 0.100 Exp 10/30/21

Simulator S/N SD1198 Date Calibrated 6/15/21

iii. Negative Control - Mnf Guth Lot 19301 Level 0.100 Exp 10/30/21

Simulator S/N SD1088 Date Calibrated 6/15/21

Exceeded Attempts

RFI

Verify stylus is calibrated

Reset Options

Clear Memory

Remove tank prior to shut down

Verification of Calibration

Non-Drinking Subject Test (attached)

Upload

Add Linearity Data to Spreadsheet

End Date 10/5/21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 10/04/2021
Time: 15:56:45

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 = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.82 V PASSED
(1.09 V - 2.55 V)
Cooler Voltage = 1.76 V PASSED
(1.06 V - 2.46 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 535 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.808 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
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

Xq = 0.097 1.84% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100398

Date: 10/04/2021

Time: 4:02 PM

Temperatures (°C)

Sample Cell: 49.2°C

Breath Tube: 47.1°C

Current Barometer 29.9 in

Volume (Ltr) 1.43

Settings

Lamp: 1.85 V

Bias: 80 V

Cooler: 1.76 V

Chopper: 534 Hz

Voltages (V)

Flow: 1.03 V

Detector: 0.040 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 05/01/2015
Time: 10:32:08

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

Ca	=	0.1000			
CAL	=	0.977715	0.800	<=	CAL < 1.200
b1	=	0.0003	0.0000	<=	b1 < 0.0040
b2	=	0.0078	0.0010	<=	b2 < 0.0100
b3	=	0.0003	0.0000	<=	b3 < 0.0040
Xq	=	0.0952	0.0500	<=	Xq < 0.2000
a21	=	1.238166	1.050	<=	a21 < 1.300
a31	=	0.474955	0.300	<=	a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 10/04/2021
Time: 16:03:05

SUBJECT NAME:
TEST TEST
LICENSE #: MIN VOLUME

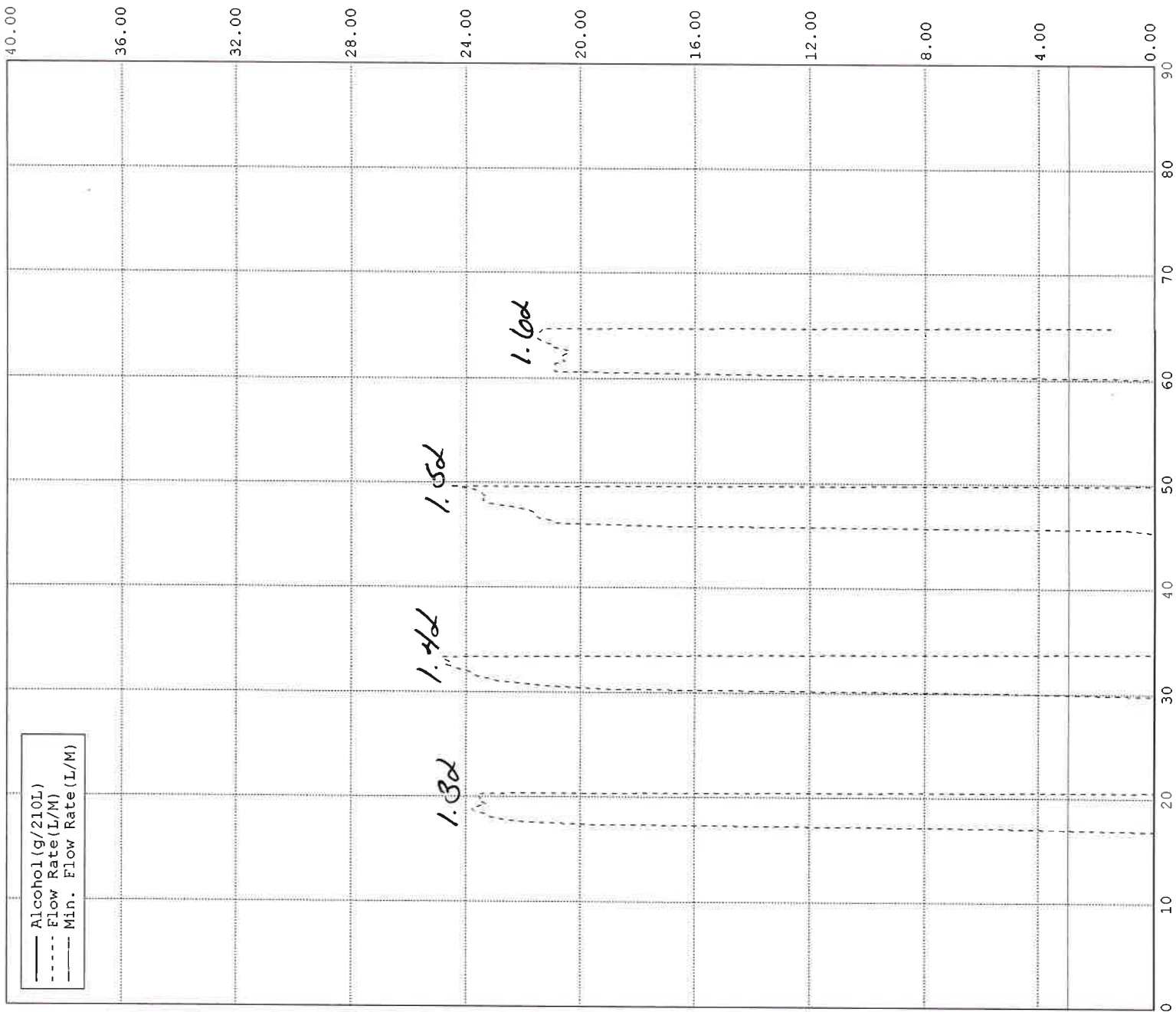
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.88: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	16:04
BLANK TEST	0.000	16:04
INTERNAL STANDARD	VERIFIED	16:04
EXTERNAL STANDARD	0.077	16:04
BLANK TEST	0.000	16:05
SUBJECT SAMPLE (Vol=1.55L)	0.000	16:06
BLANK TEST	0.000	16:07
EXTERNAL STANDARD	0.077	16:07
BLANK TEST	0.000	16:08

OKS



LINEARITY CHECK

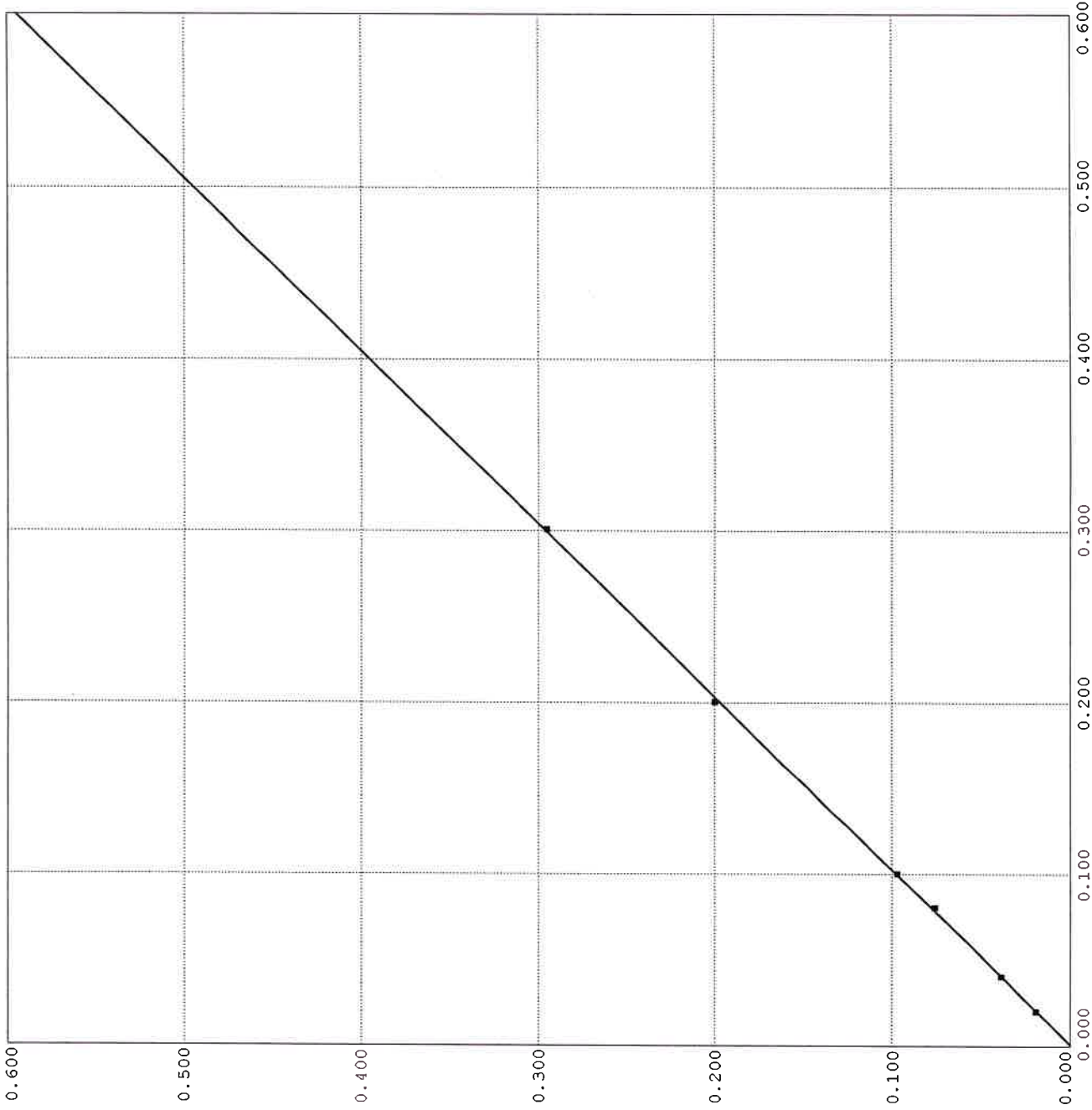
Alaska Department of Public Safety
 DATAMASTER dmt: 100398

Date: 10/04/2021
 Time: 16:10:03

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0198	0.0004
0.040	0.0394	0.0005
0.080	0.0770	0.0000
0.100	0.0980	0.0000
0.200	0.2006	0.0005
0.300	0.2960	0.0007

SLOPE = 0.992765
 R² = 0.999775



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

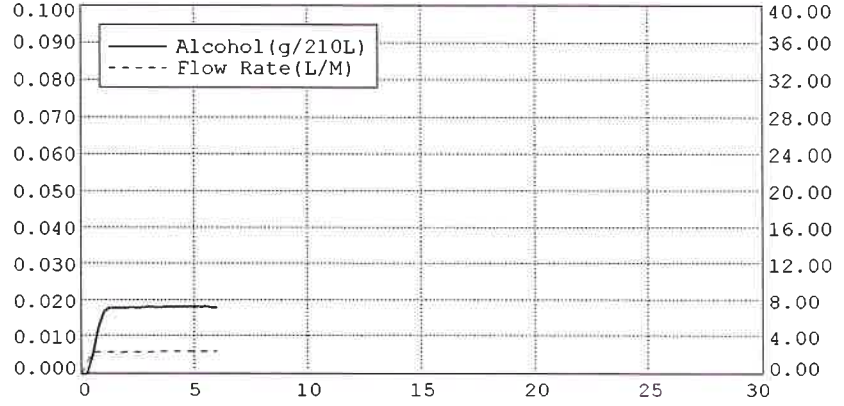
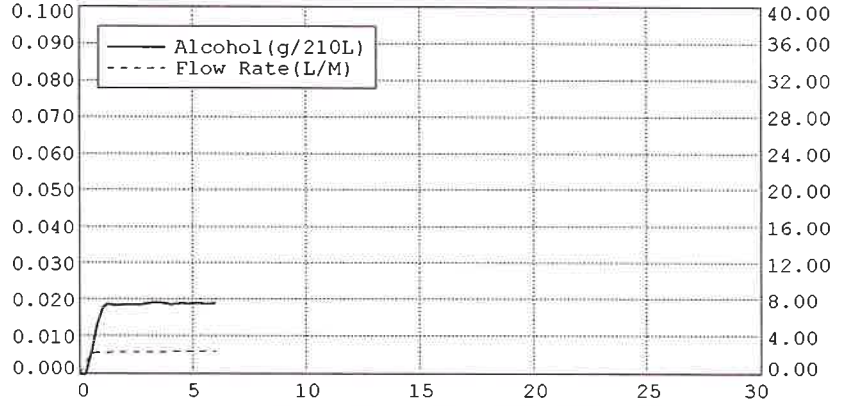
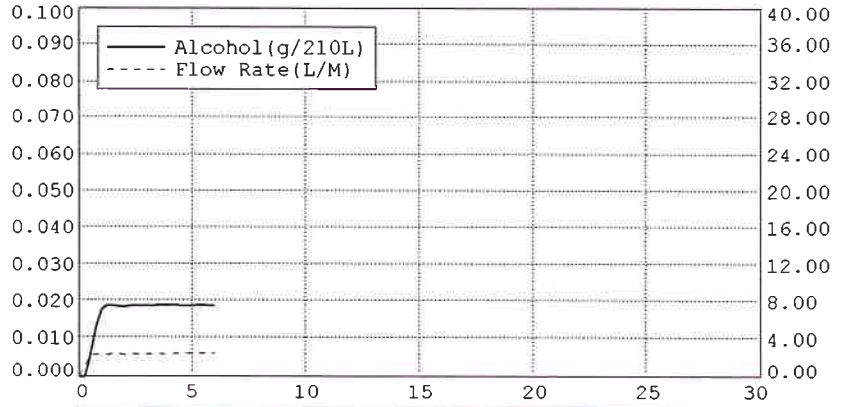
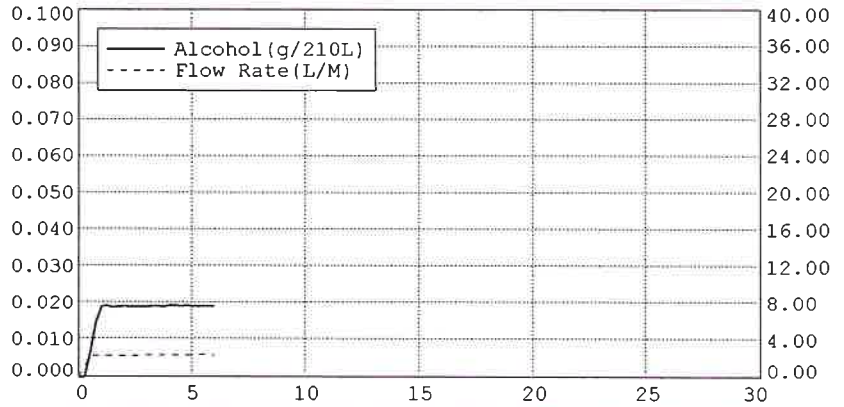
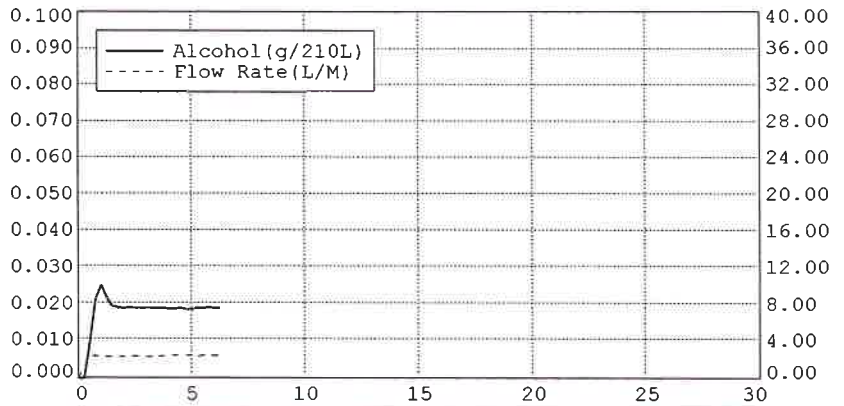
Date: 10/04/2021
 Time: 16:10:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.88: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 218 psi

BLANK TEST	0.000	16:11
INTERNAL STANDARD	VERIFIED	16:11
EXTERNAL STANDARD	0.020	16:11
BLANK TEST	0.000	16:12
EXTERNAL STANDARD	0.020	16:12
BLANK TEST	0.000	16:13
EXTERNAL STANDARD	0.020	16:13
BLANK TEST	0.000	16:14
EXTERNAL STANDARD	0.020	16:14
BLANK TEST	0.000	16:15
EXTERNAL STANDARD	0.019	16:15
BLANK TEST	0.000	16:16

Average = 0.0198
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

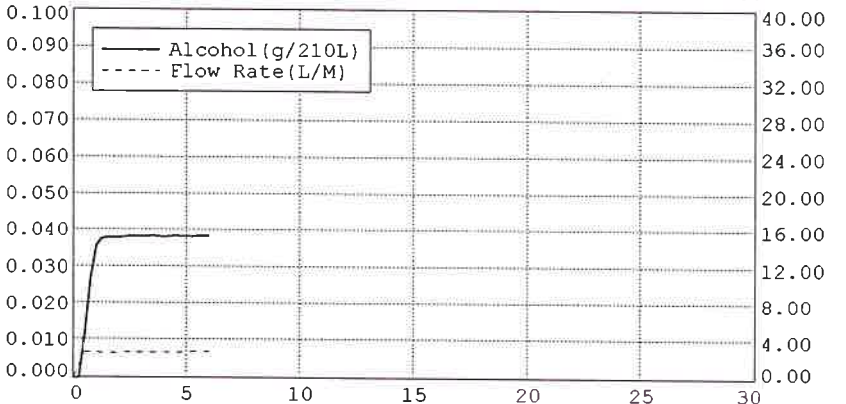
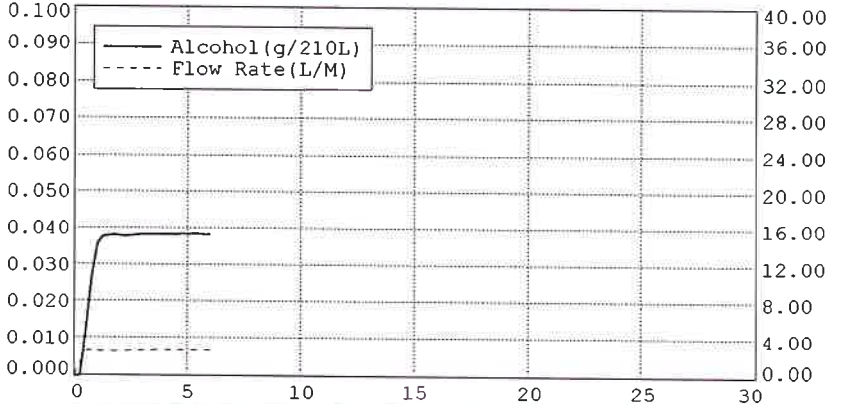
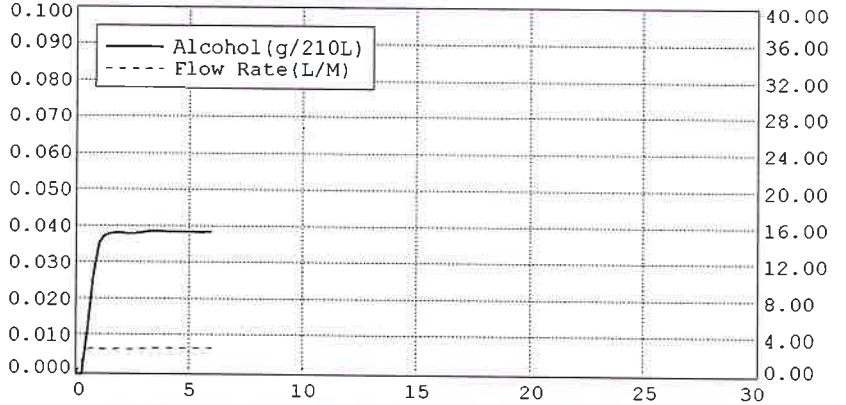
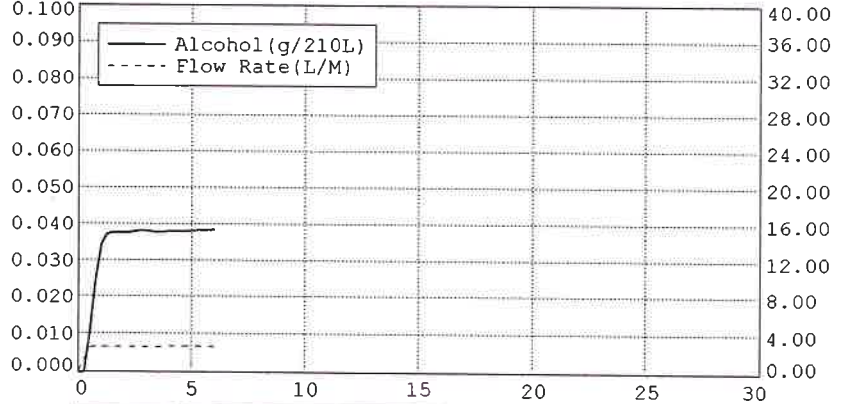
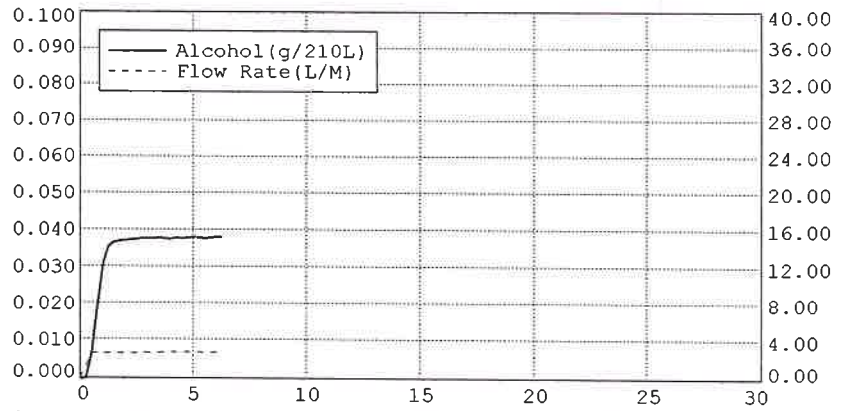
Date: 10/04/2021
 Time: 16:17:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.87: 0.040
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 778 psi

BLANK TEST	0.000	16:18
INTERNAL STANDARD	VERIFIED	16:18
EXTERNAL STANDARD	0.039	16:18
BLANK TEST	0.000	16:19
EXTERNAL STANDARD	0.039	16:19
BLANK TEST	0.000	16:20
EXTERNAL STANDARD	0.040	16:20
BLANK TEST	0.000	16:21
EXTERNAL STANDARD	0.040	16:21
BLANK TEST	0.000	16:22
EXTERNAL STANDARD	0.039	16:22
BLANK TEST	0.000	16:23

Average = 0.0394
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

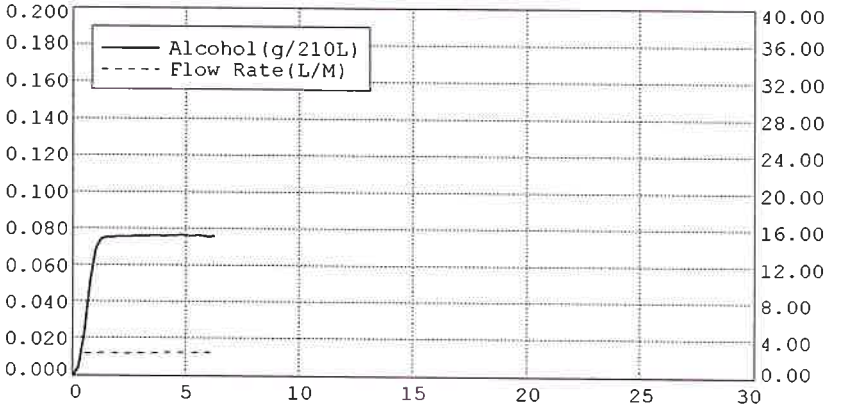
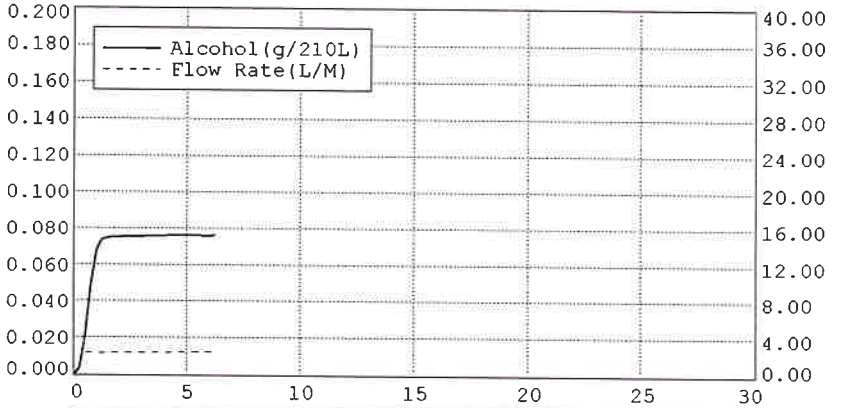
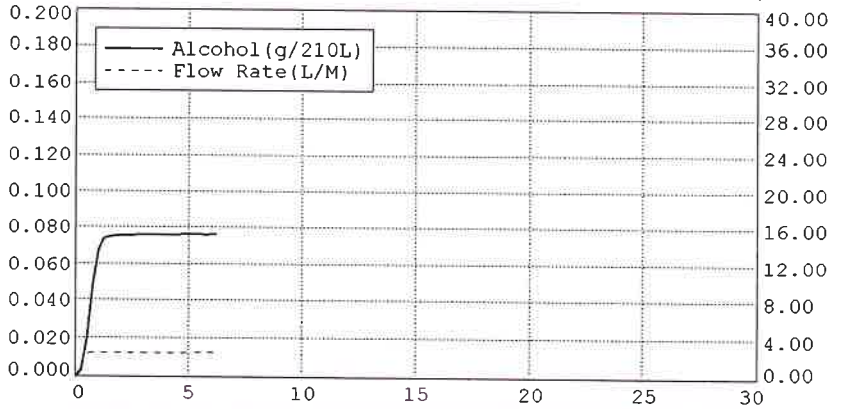
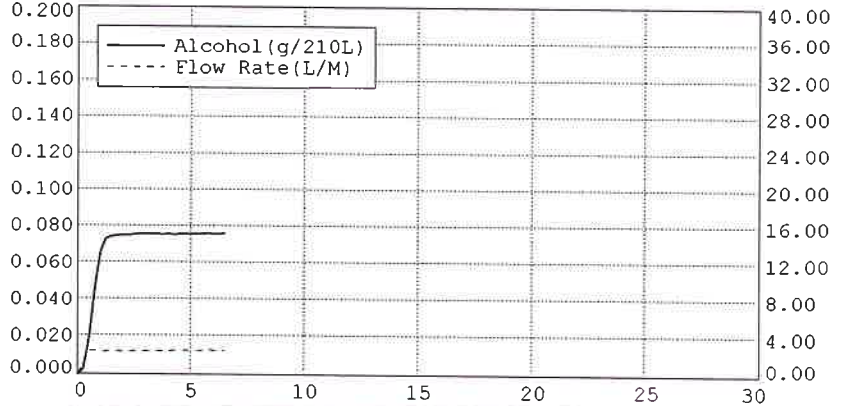
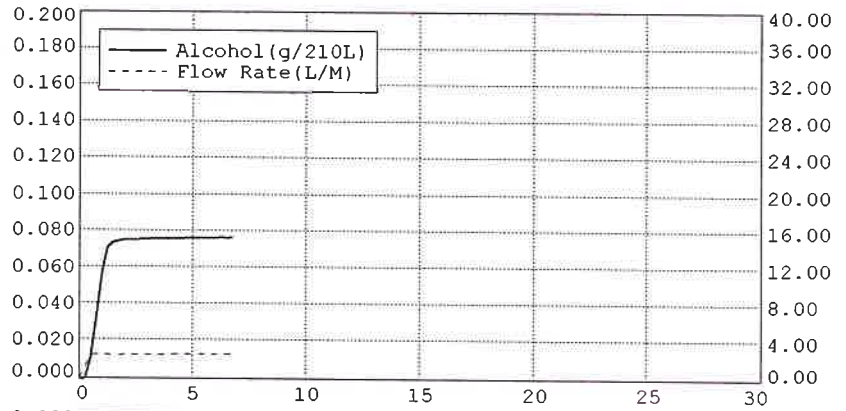
Date: 10/04/2021
 Time: 16:24:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.87: 0.080
 LOT #: AG018102
 EXPIRATION: 06/29/2022
 TANK PRESSURE: 425 psi

BLANK TEST	0.000	16:25
INTERNAL STANDARD	VERIFIED	16:25
EXTERNAL STANDARD	0.077	16:25
BLANK TEST	0.000	16:26
EXTERNAL STANDARD	0.077	16:26
BLANK TEST	0.000	16:27
EXTERNAL STANDARD	0.077	16:28
BLANK TEST	0.000	16:29
EXTERNAL STANDARD	0.077	16:29
BLANK TEST	0.000	16:30
EXTERNAL STANDARD	0.077	16:30
BLANK TEST	0.000	16:31

Average = 0.0770
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

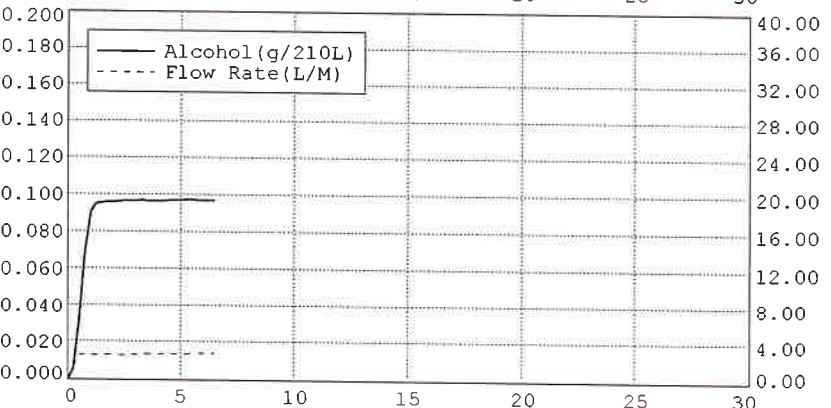
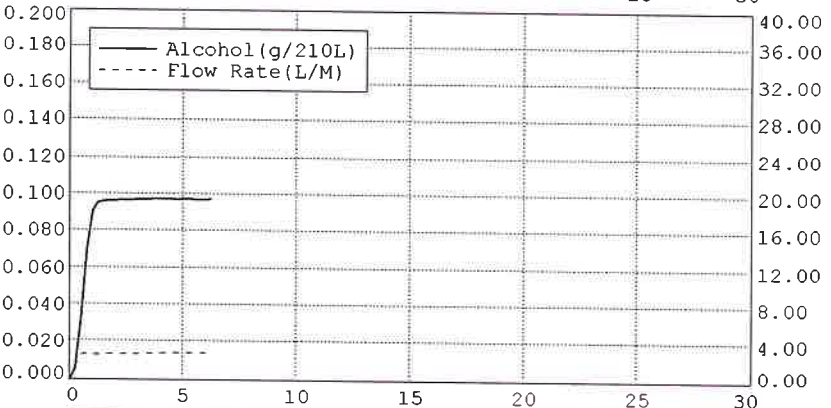
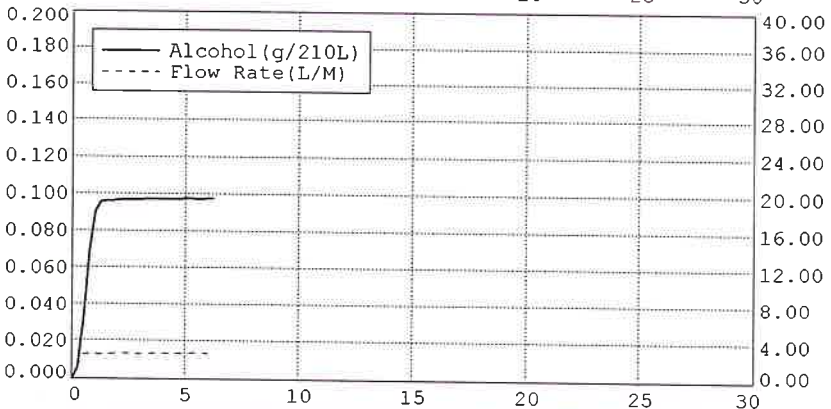
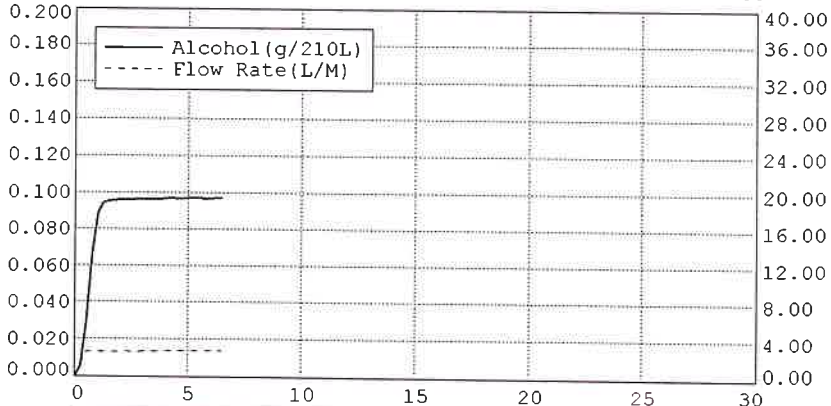
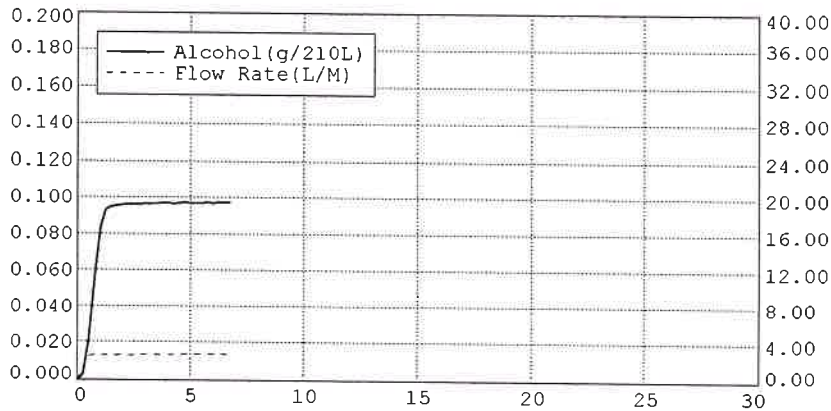
Date: 10/04/2021
 Time: 16:32:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.87: 0.100
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 938 psi

BLANK TEST	0.000	16:33
INTERNAL STANDARD	VERIFIED	16:33
EXTERNAL STANDARD	0.098	16:33
BLANK TEST	0.000	16:34
EXTERNAL STANDARD	0.098	16:34
BLANK TEST	0.000	16:35
EXTERNAL STANDARD	0.098	16:35
BLANK TEST	0.000	16:36
EXTERNAL STANDARD	0.098	16:36
BLANK TEST	0.000	16:37
EXTERNAL STANDARD	0.098	16:38
BLANK TEST	0.000	16:38

Average = 0.0980
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

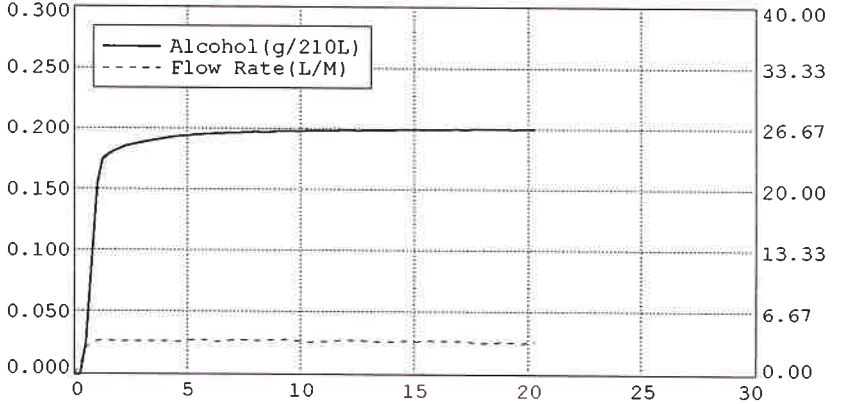
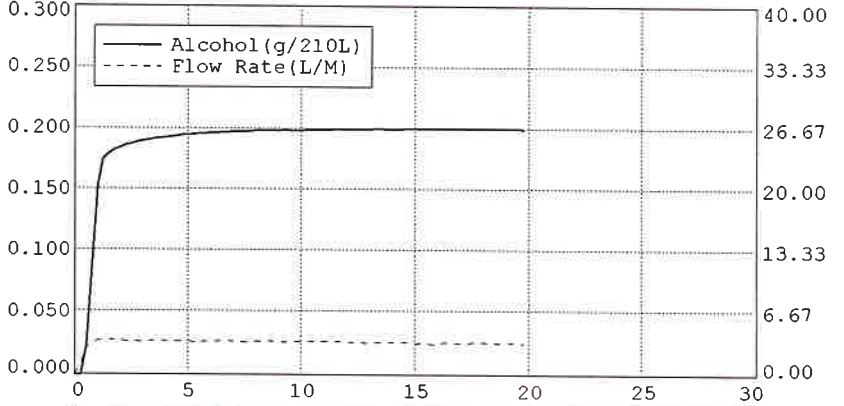
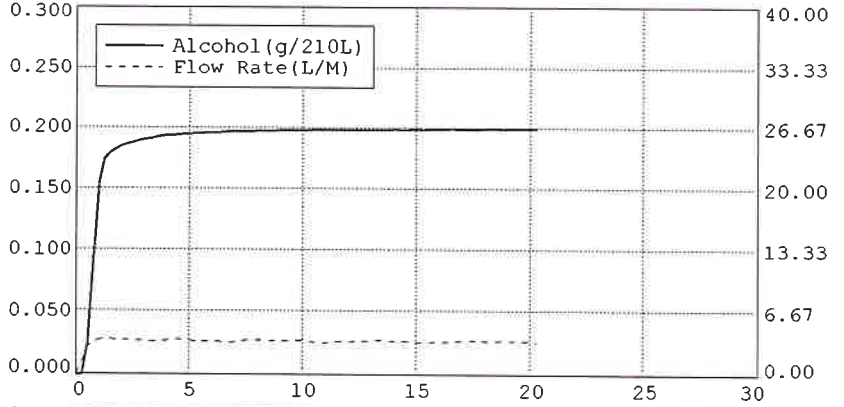
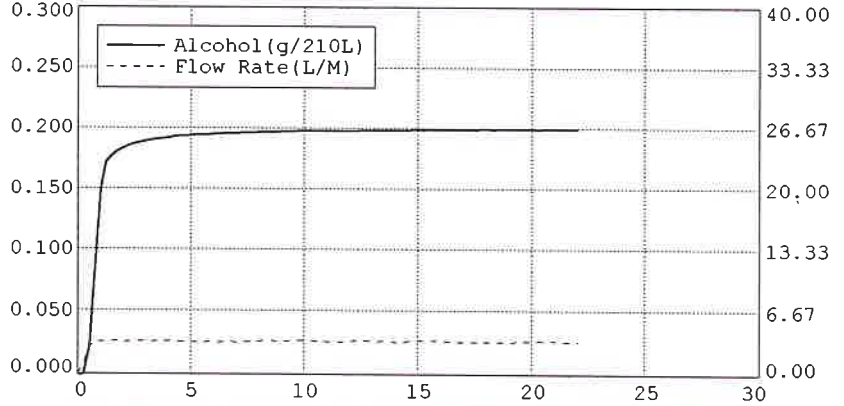
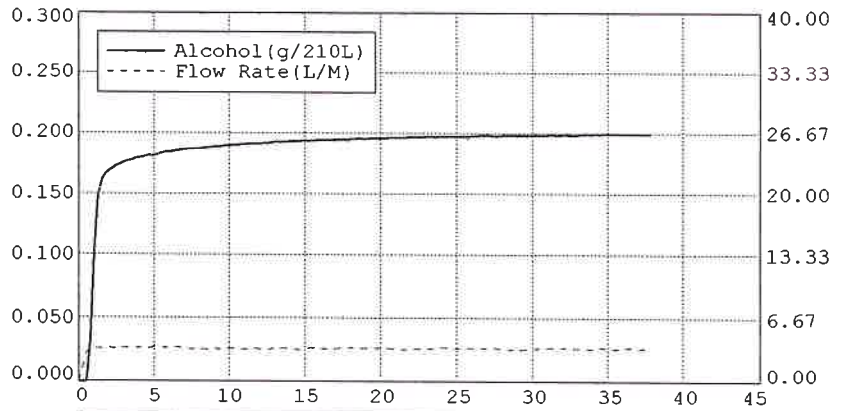
Date: 10/04/2021
 Time: 16:39:11

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 20510
 EXPIRATION: 12/03/2022

BLANK TEST	0.000	16:40
INTERNAL STANDARD	VERIFIED	16:40
EXTERNAL STANDARD	0.201	16:41
BLANK TEST	0.000	16:42
EXTERNAL STANDARD	0.200	16:42
BLANK TEST	0.000	16:43
EXTERNAL STANDARD	0.200	16:43
BLANK TEST	0.000	16:44
EXTERNAL STANDARD	0.201	16:45
BLANK TEST	0.000	16:46
EXTERNAL STANDARD	0.201	16:46
BLANK TEST	0.000	16:47

Average = 0.2006
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100398

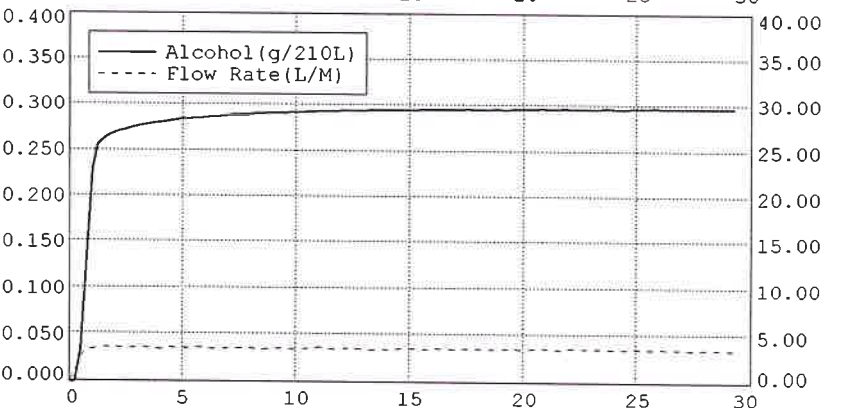
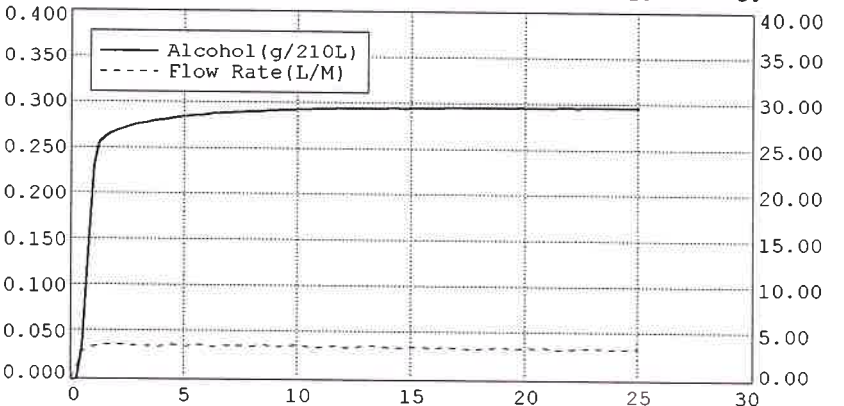
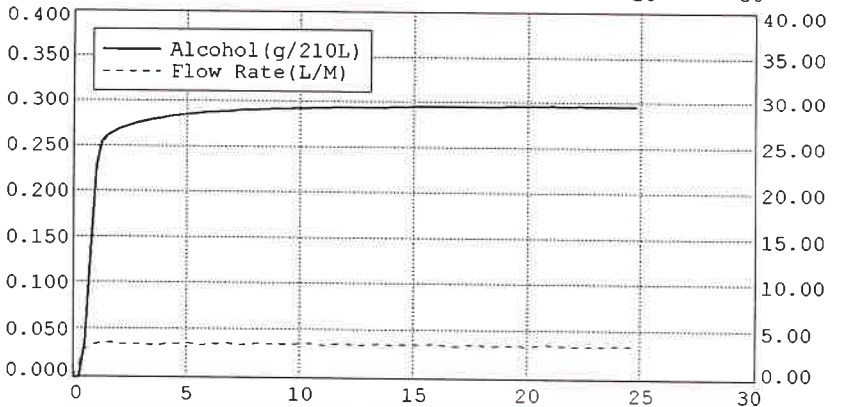
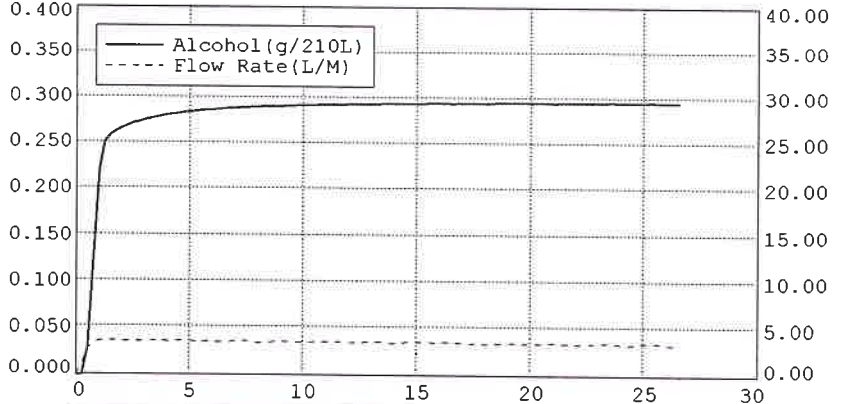
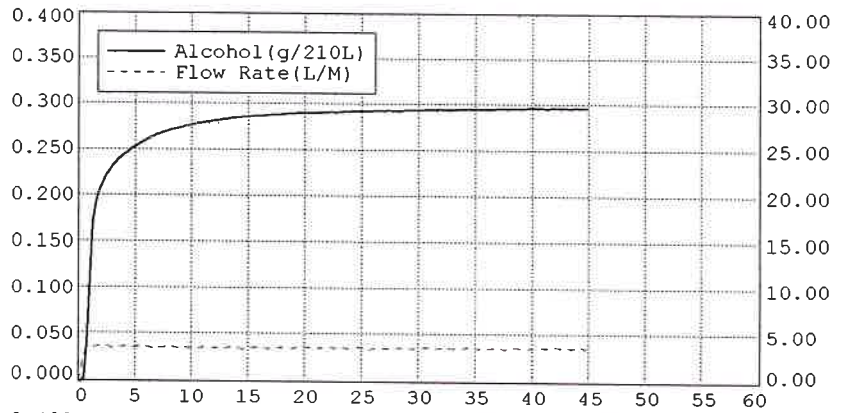
Date: 10/04/2021
 Time: 16:53:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 21030
 EXPIRATION: 02/02/2023

BLANK TEST	0.000	16:54
INTERNAL STANDARD	VERIFIED	16:54
EXTERNAL STANDARD	0.296	16:55
BLANK TEST	0.000	16:56
EXTERNAL STANDARD	0.295	16:56
BLANK TEST	0.000	16:57
EXTERNAL STANDARD	0.296	16:58
BLANK TEST	0.000	16:58
EXTERNAL STANDARD	0.296	16:59
BLANK TEST	0.000	17:00
EXTERNAL STANDARD	0.297	17:00
BLANK TEST	0.000	17:01

Average = 0.2960
 Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 10/04/2021
Time: 17:08:09

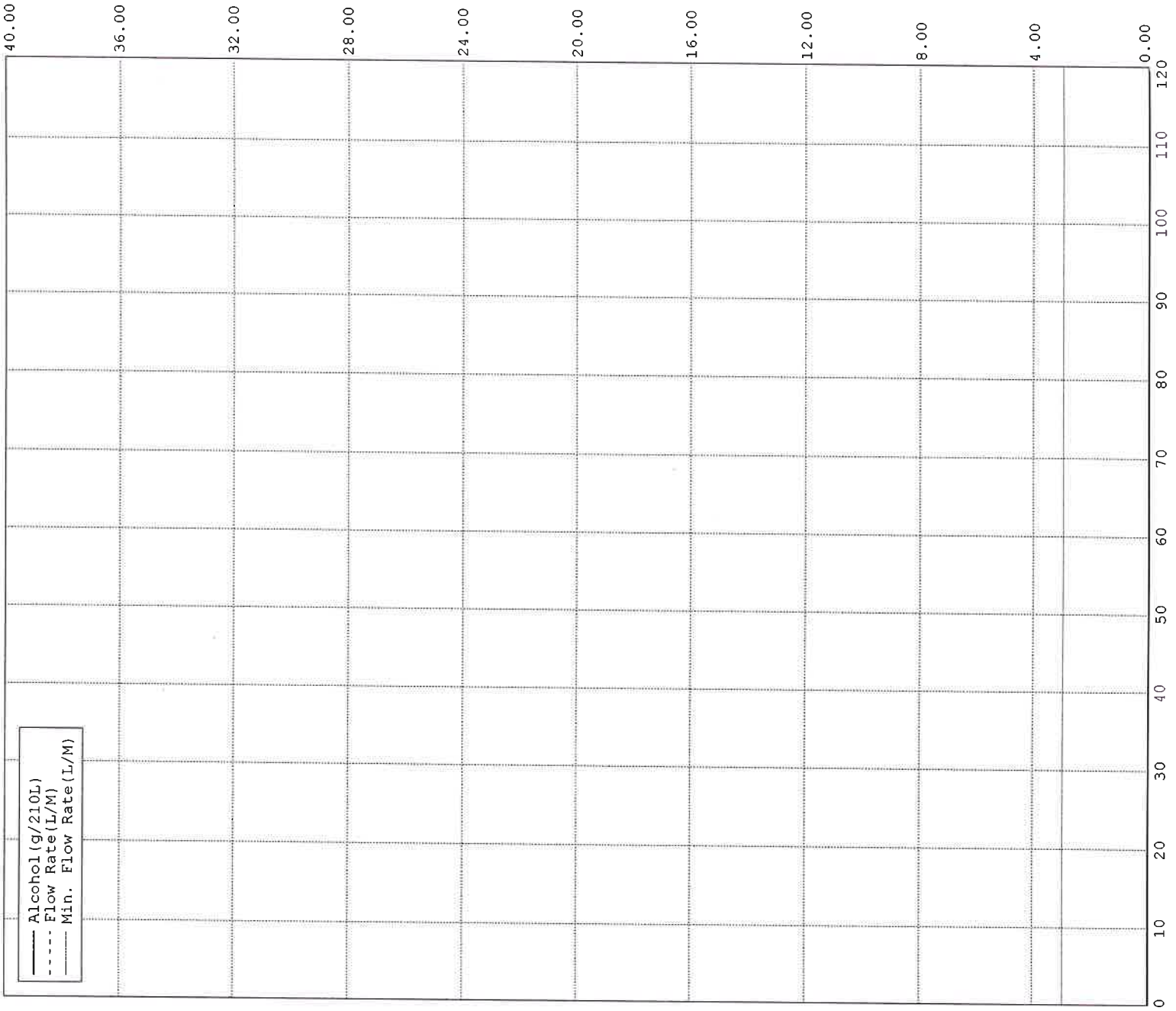
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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 29.87: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 17:09
BLANK TEST 0.000 17:09
INTERNAL STANDARD VERIFIED 17:09
EXTERNAL STANDARD 0.076 17:09
BLANK TEST 0.000 17:10
SUBJECT SAMPLE INCOMPLETE 17:12



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 10/05/2021
Time: 08:17:45

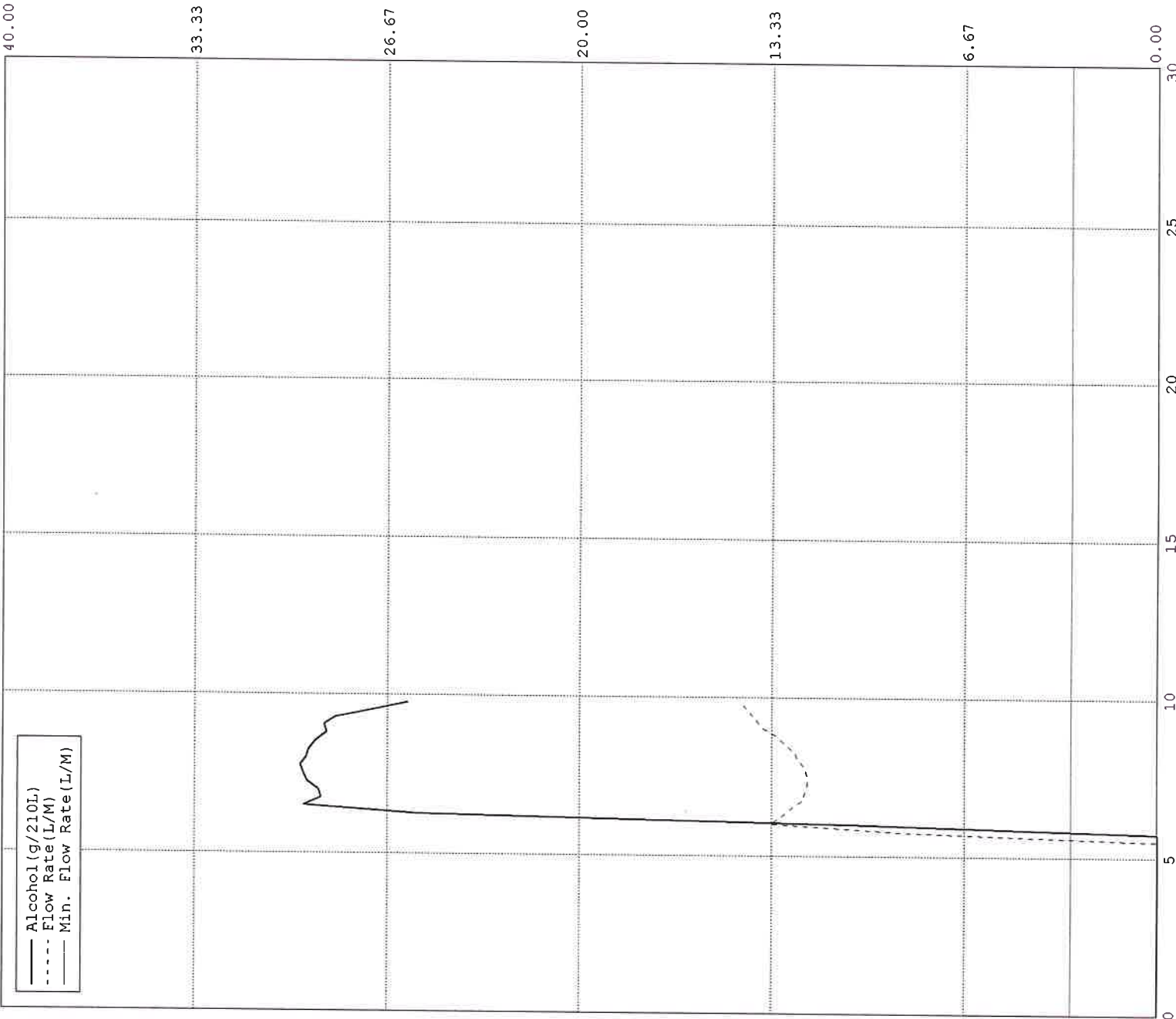
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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 29.75: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	08:19
BLANK TEST	0.000	08:19
INTERNAL STANDARD	VERIFIED	08:19
EXTERNAL STANDARD	0.076	08:19
BLANK TEST	0.000	08:20
SUBJECT SAMPLE	INVALID	08:21



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 10/05/2021
Time: 08:23:05

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

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

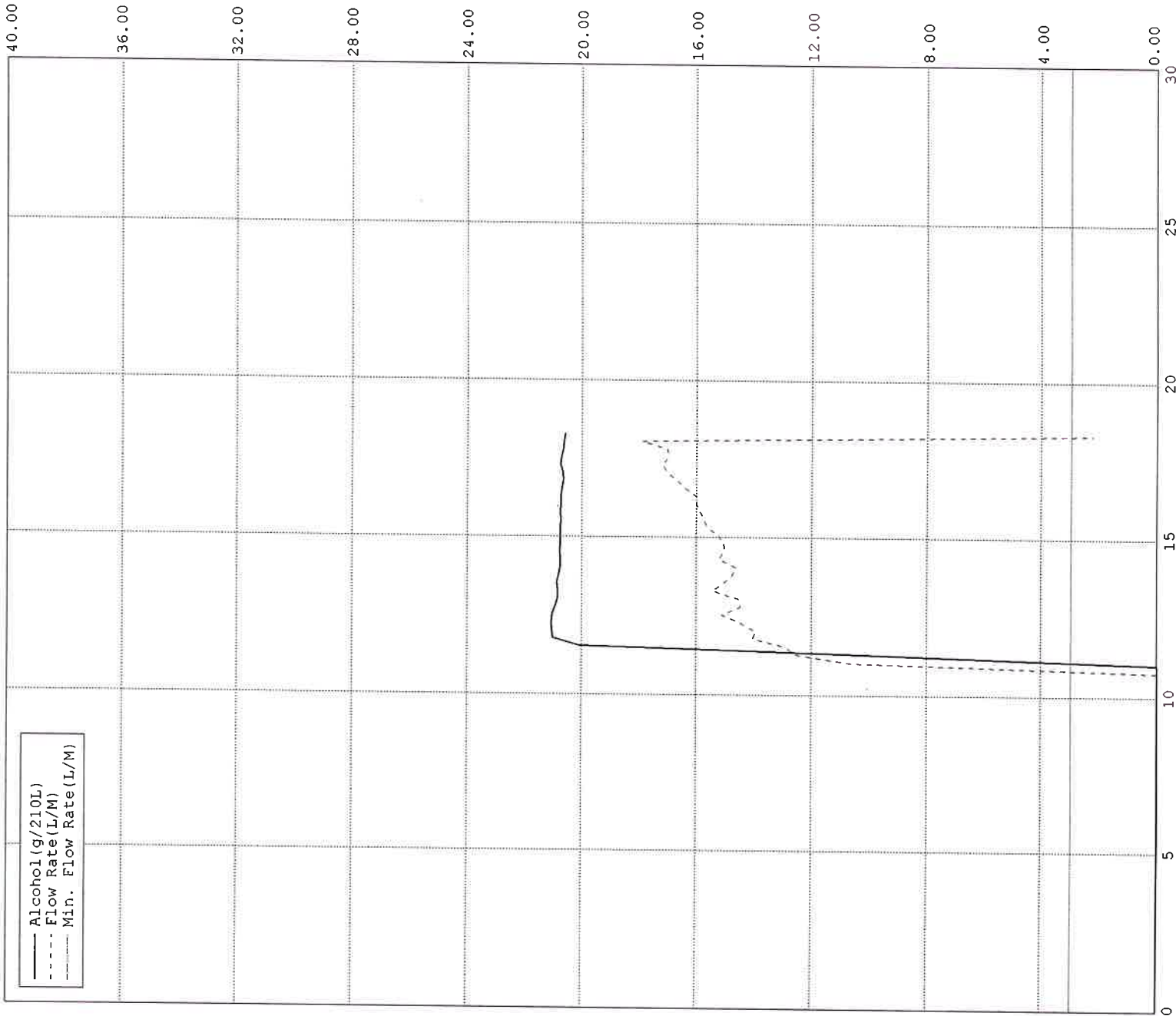
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 08:24
BLANK TEST 0.000 08:24
INTERNAL STANDARD VERIFIED 08:24
Xq = 0.097 (1.38%)
EXTERNAL STANDARD 0.077 08:25
X[1] = 0.0766 (-0.0018) (0.0014)
BLANK TEST 0.000 08:25
SUBJECT SAMPLE XXX 08:26
X[1] = 0.1027 (-0.0174) (-0.0014)

Interference Detected

Filter 2 Avg = -0.0012
Filter 3 Avg = 0.0015

CRB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 10/05/2021
Time: 08:28:44

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

DEPT/AGENCY:
AAA1

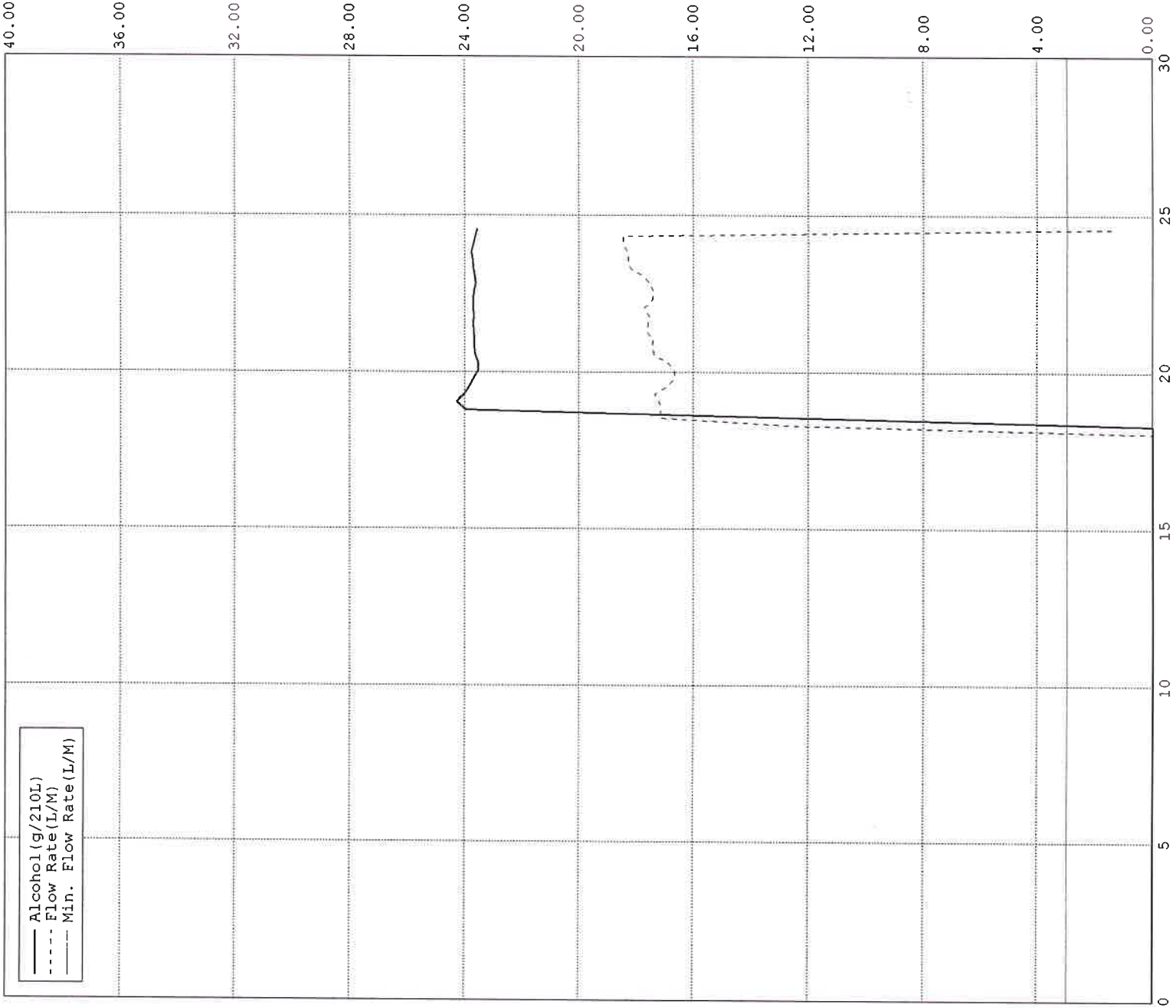
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	08:29
BLANK TEST	0.000	08:29
INTERNAL STANDARD	VERIFIED	08:29
Xq = 0.097 (1.84%)		
EXTERNAL STANDARD	0.077	08:30
X[1] = 0.0767 (-0.0009) (0.0014)		
BLANK TEST	0.000	08:31
SUBJECT SAMPLE	XXX	08:31
X[1] = 0.1179 (-0.0301) (0.0011)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 10/05/2021
Time: 08:34:24

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

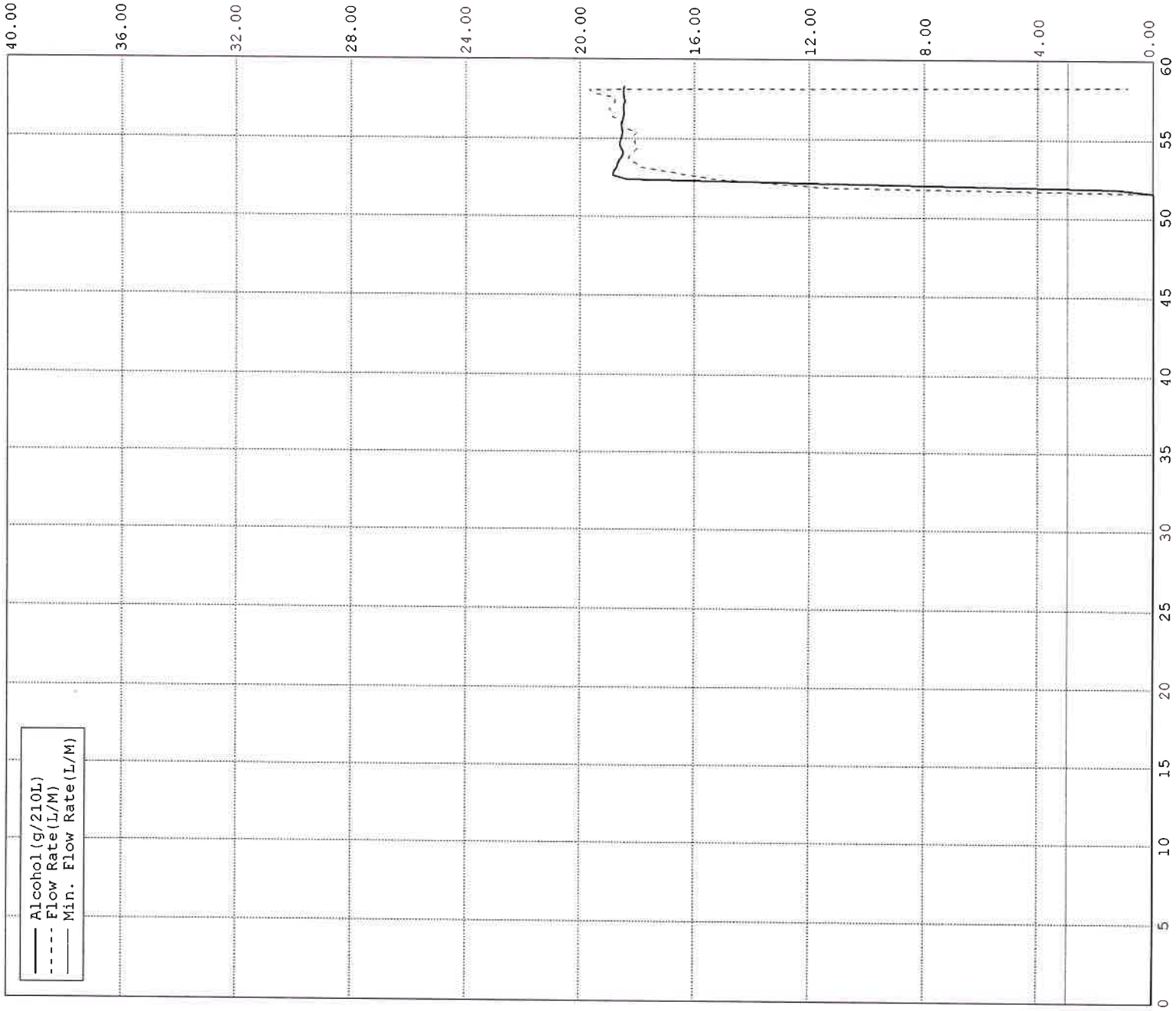
DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	08:35
BLANK TEST	0.000	08:35
INTERNAL STANDARD	VERIFIED	08:35
Xq = 0.098 (2.48%)		
EXTERNAL STANDARD	0.077	08:35
X[1] = 0.0769 (-0.0011)	(0.0021)	
BLANK TEST	0.000	08:36
SUBJECT SAMPLE (Vol=1.93L)	0.092	08:37
X[1] = 0.0922 (0.0006)	(-0.0006)	
BLANK TEST	0.000	08:38
EXTERNAL STANDARD	0.076	08:39
X[1] = 0.0765 (-0.0008)	(0.0011)	
BLANK TEST	0.000	08:39

CSB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 10/05/2021
Time: 08:57:01

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

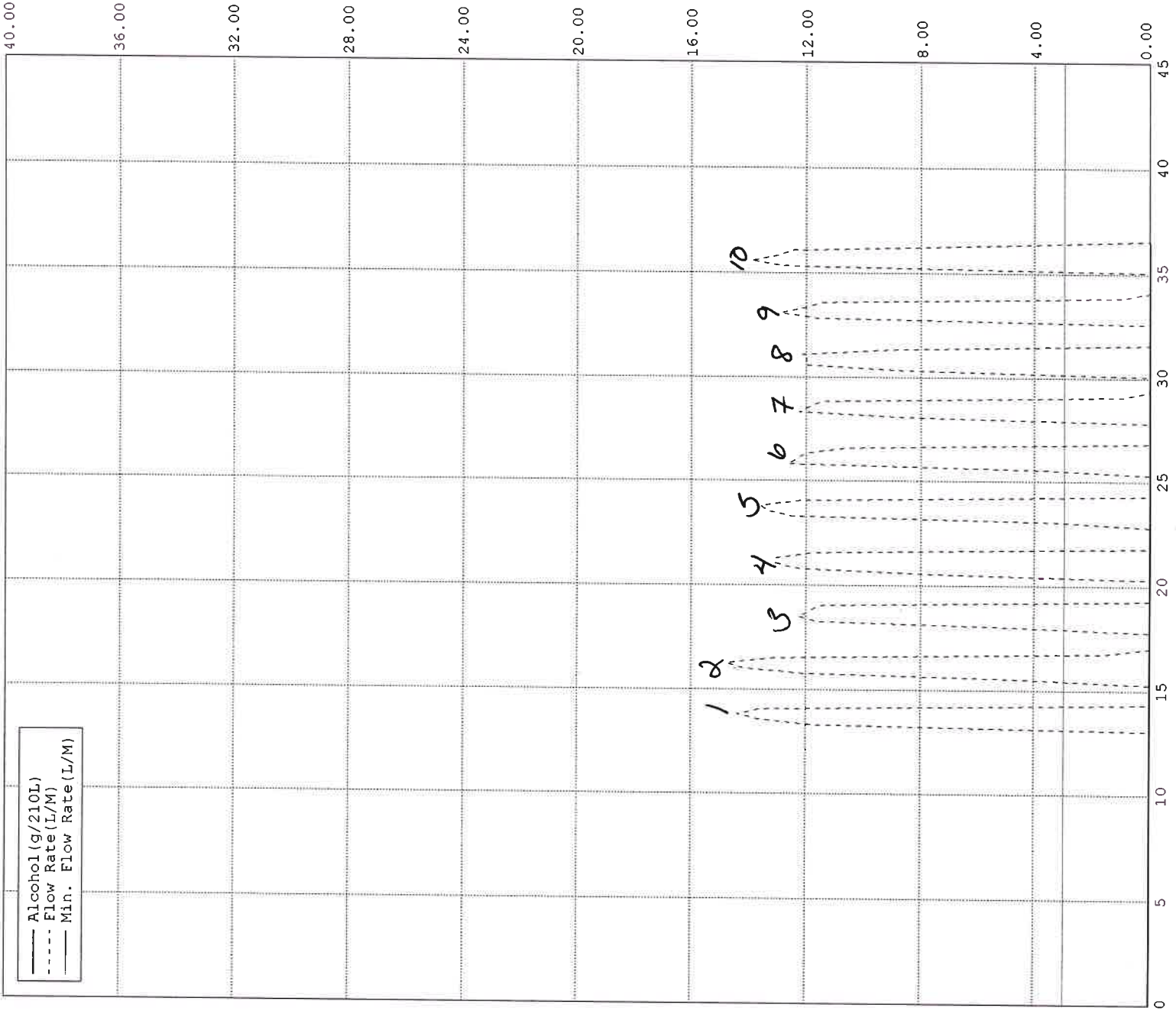
DEPT/AGENCY:
AAA1
CASE/REPORT: 21-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 08:58
BLANK TEST 0.000 08:58
INTERNAL STANDARD VERIFIED 08:58
EXTERNAL STANDARD 0.077 08:58
BLANK TEST 0.000 08:59
SUBJECT SAMPLE XXX 09:00

Maximum Attempts Exceeded

1003



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100398

Date: 10/05/2021
Time: 09:02:02

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

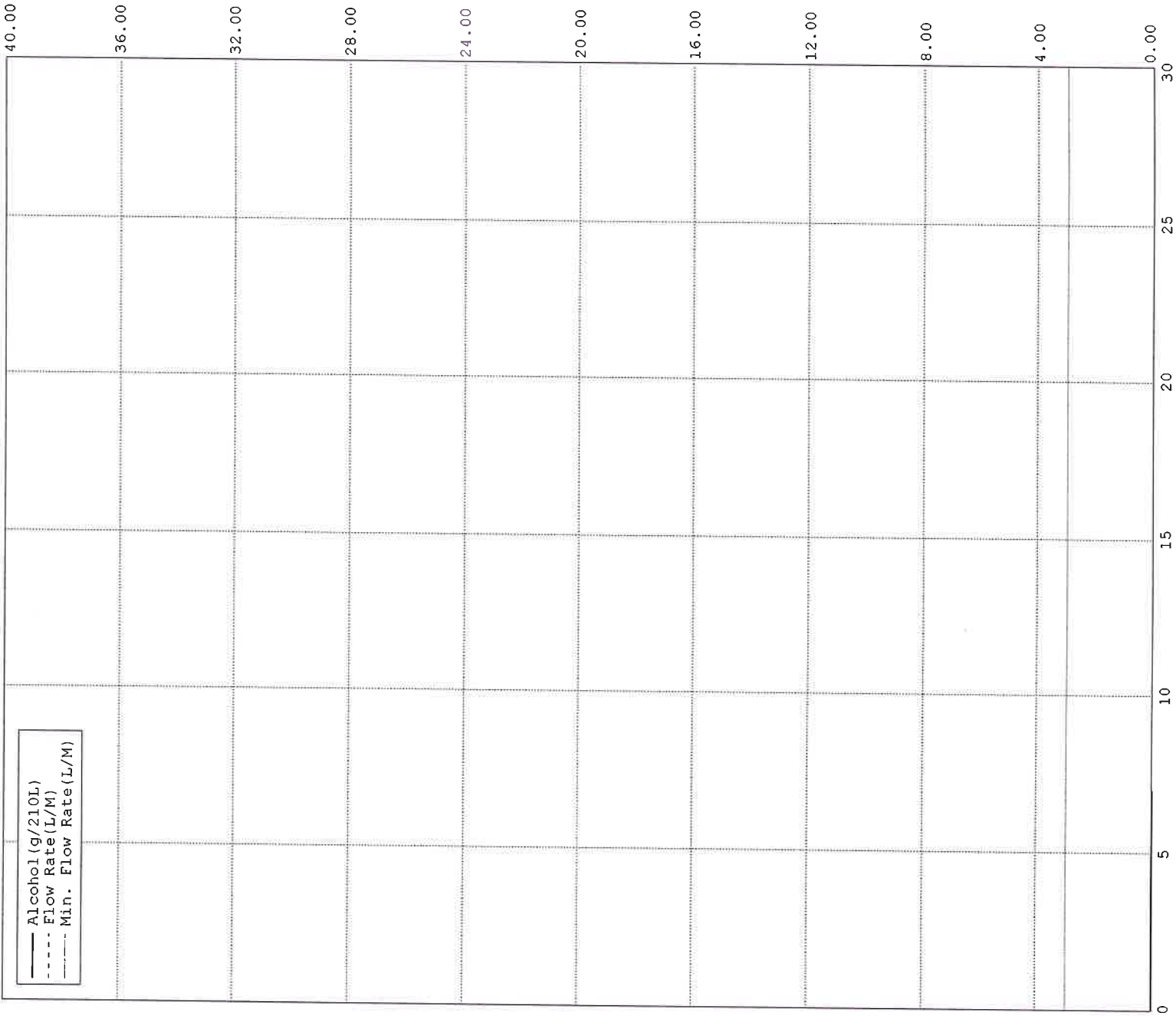
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 09:09
BLANK TEST 0.000 09:09
INTERNAL STANDARD VERIFIED 09:09
EXTERNAL STANDARD 0.077 09:10
BLANK TEST 0.000 09:11

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100398

Date: 10/05/2021
Time: 09:35:34

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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 29.74: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:38
BLANK TEST	0.000	09:38
INTERNAL STANDARD	VERIFIED	09:38
EXTERNAL STANDARD	0.077	09:38
BLANK TEST	0.000	09:39
SUBJECT SAMPLE (Vol=1.93L)	0.000	09:40
BLANK TEST	0.000	09:41
EXTERNAL STANDARD	0.077	09:41
BLANK TEST	0.000	09:42

