

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 100384 Analyst Derek Walton Start Date 04/22/21

Diagnostic Test (attached)

Internal Standard value $\leq 3.00\%$

Voltage Checks

Adjust voltages, if needed

i. Lamp (2.6V Maximum)

iv. Chopper Frequency

ii. Bias

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

iii. Cooler (2.0V Maximum)

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 1.4 L (1.3L to 1.7L)

Linearity Test (attached)

Levels Used

i. 0.020g/210L Mnf Airgas Lot A6928203 Exp 10/09/21

ii. 0.040g/210L Mnf Airgas Lot A6915607 Exp 06/05/21

iii. 0.080g/210L Mnf Airgas Lot A6923401 Exp 08/22/21

iv. 0.100g/210L Mnf Airgas Lot A6924701 Exp 09/04/21

v. 0.200g/210L Mnf Wttn Lot 19200 Exp 08/06/21

Simulator S/N DR4161 Date Calibrated 05/08/20

vi. 0.300g/210L Mnf Wttn Lot 19330 Exp 11/13/21

Simulator S/N DR5298 Date Calibrated 05/08/20

Functional Tests (attached)

Incomplete

Invalid

Interference

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

Simulator S/N SD1202 Date Calibrated 05/08/20

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

Simulator S/N SD1177 Date Calibrated 05/07/20

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

Simulator S/N DR6267 Date Calibrated 11/17/20

Exceeded Attempts

RFI

Verify stylus is calibrated

Verification of Calibration

Reset Options

Non-Drinking Subject Test (attached)

Clear Memory

Upload

Remove tank prior to shut down

Add Linearity Data to Spreadsheet

End Date 04/23/21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 04/22/2021
Time: 12:31:02

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.64 V PASSED
(1.02 V - 2.38 V)
Cooler Voltage = 1.68 V PASSED
(1.01 V - 2.35 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 538 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 5.144 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.001 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 = 0.090 2.39% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100384

Date: 04/22/2021

Time: 1:03 PM

Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 46.7°C

Current Barometer 29.9 in

Volume (Ltr) 1.55

Settings

Lamp: 1.64 V

Bias: 80 V

Cooler: 1.76 V

Chopper: 532 Hz

Voltages (V)

Flow: 1.06 V

Detector: -0.026 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 01/13/2021
Time: 07:41:44

OPERATOR NAME:
INTOX I METERS
CERTIFICATE #: TEST

Ca	=	0.2000		
CAL	=	0.987259	0.800	<= CAL < 1.200
b1	=	0.0003	0.0000	<= b1 < 0.0040
b2	=	0.0062	0.0010	<= b2 < 0.0100
b3	=	0.0003	0.0000	<= b3 < 0.0040
Xq	=	0.0875	0.0500	<= Xq < 0.2000
a21	=	1.175679	1.050	<= a21 < 1.300
a31	=	0.518446	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 04/22/2021
Time: 13:07:17

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

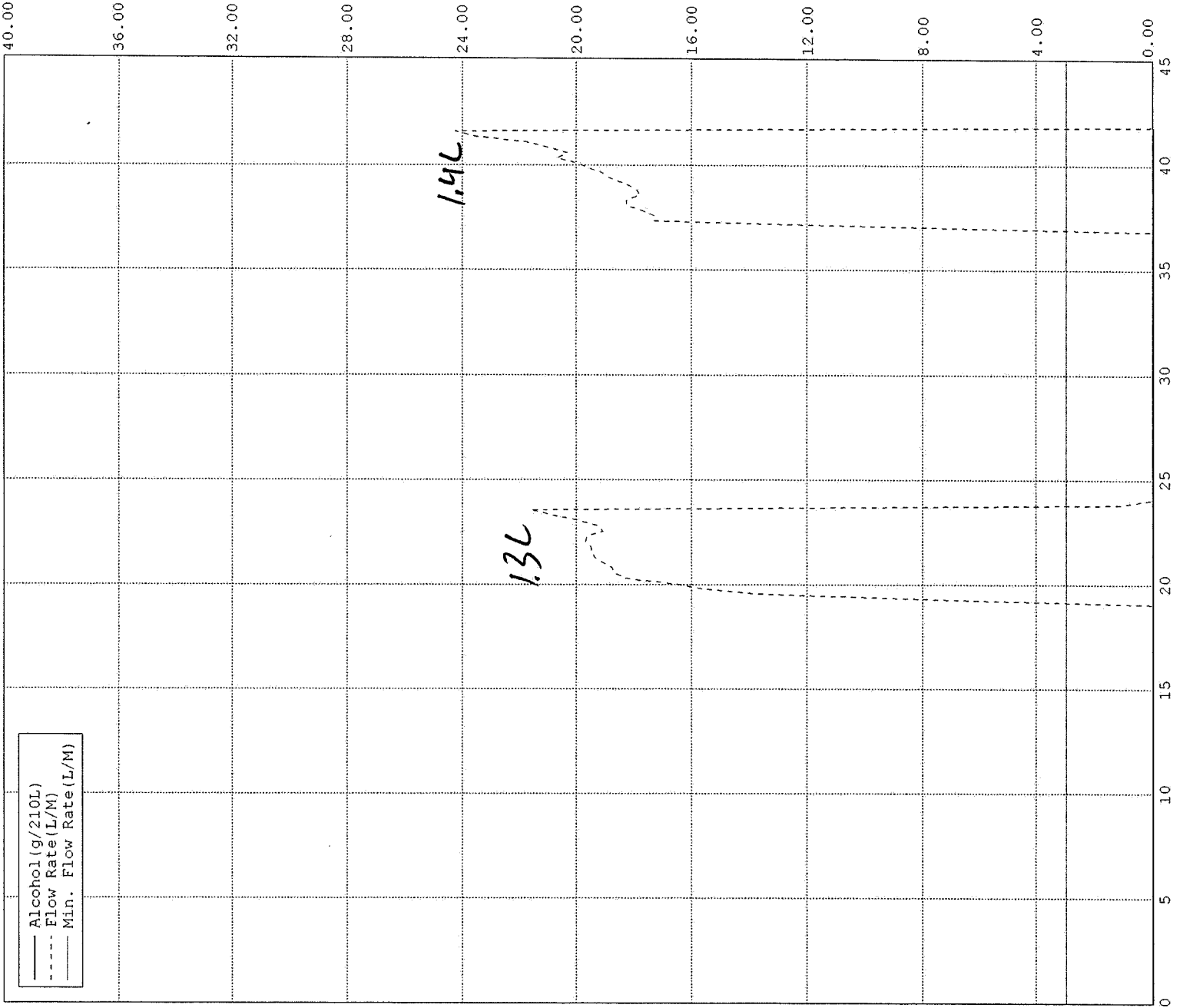
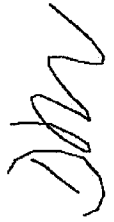
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.87: 0.080
LOT #: AG923401
EXPIRATION: 08/22/2021

DIAGNOSTIC CHECK	PASSED	13:11
BLANK TEST	0.000	13:11
INTERNAL STANDARD	VERIFIED	13:11
EXTERNAL STANDARD	0.080	13:11
BLANK TEST	0.000	13:12
SUBJECT SAMPLE (Vol=1.51L)	0.000	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.080	13:14
BLANK TEST	0.000	13:15



LINEARITY CHECK

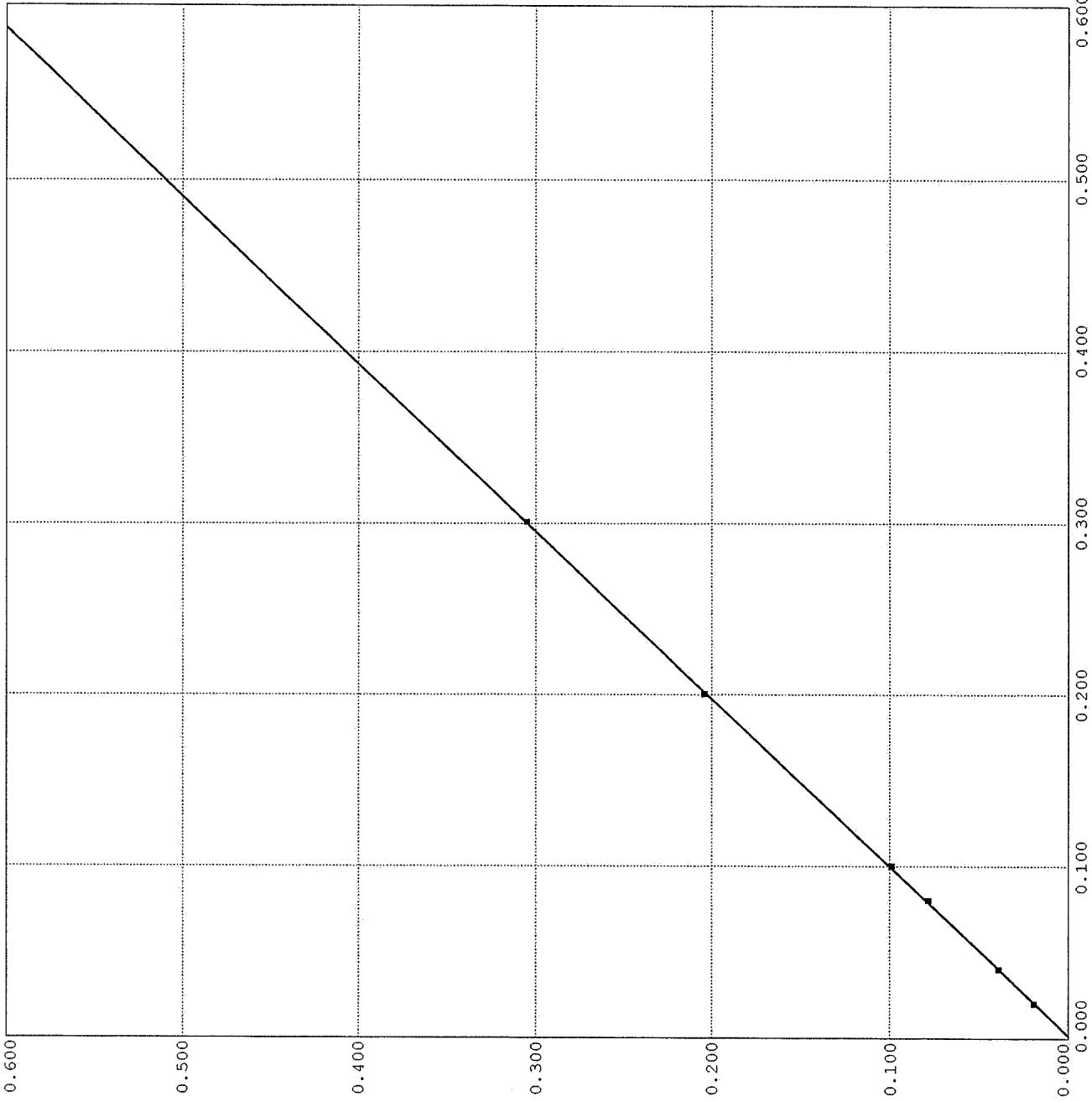
 Alaska Department of Public Safety
 DATAMASTER dmt: 100384

Date: 04/22/2021
 Time: 13:21:35

SUPERVISOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0400	0.0000
0.080	0.0794	0.0005
0.100	0.1000	0.0000
0.200	0.2050	0.0010
0.300	0.3058	0.0015

SLOPE = 1.025099
 R² = 0.999906



DW

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100384

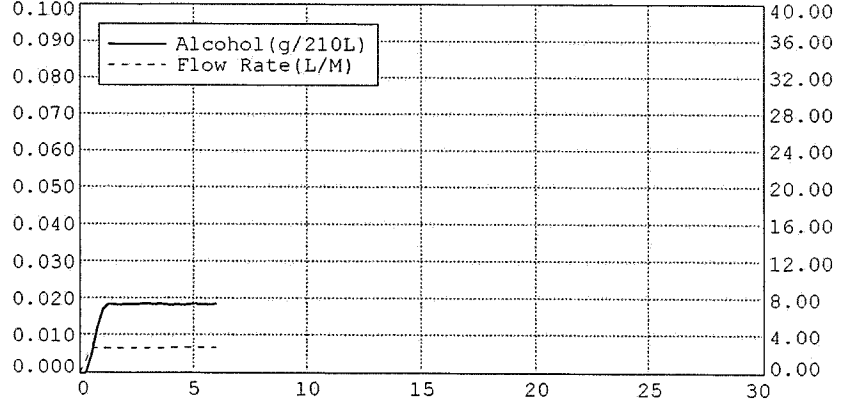
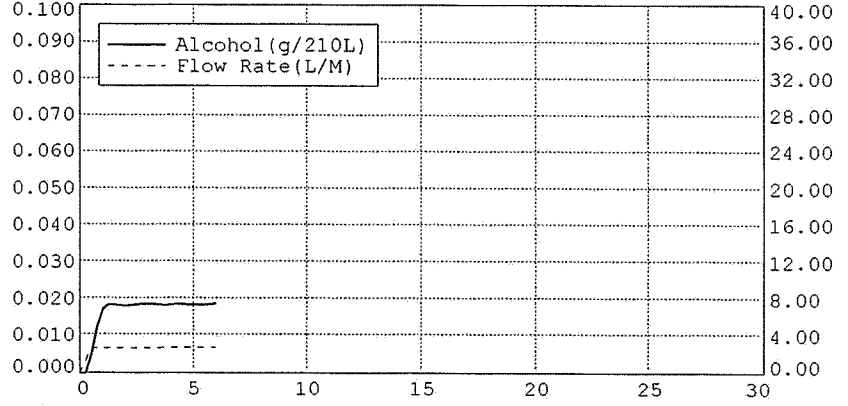
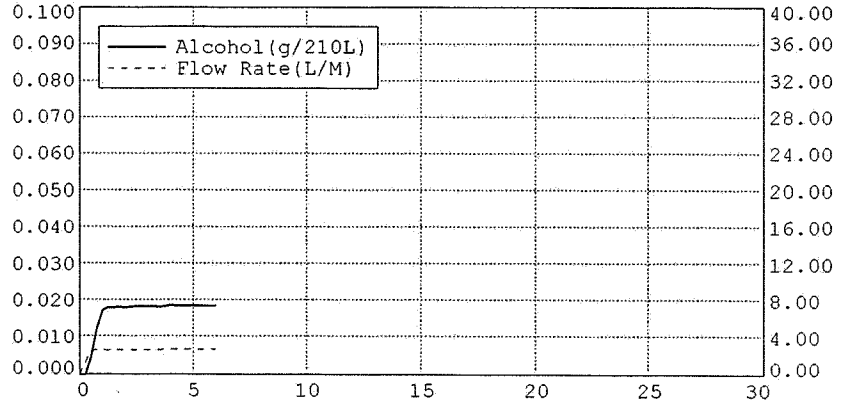
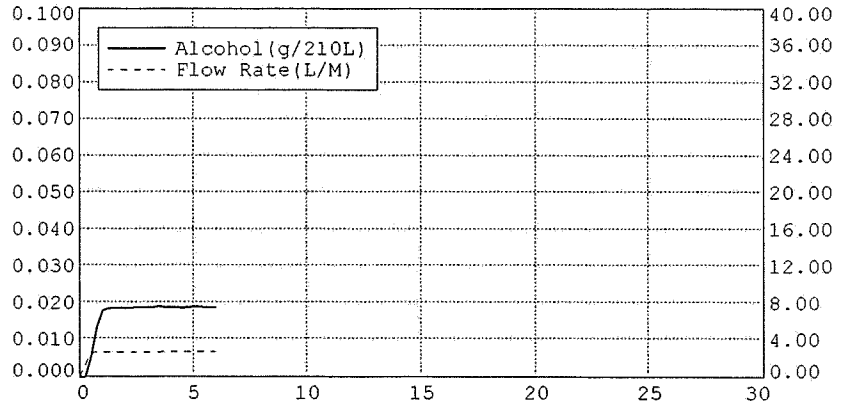
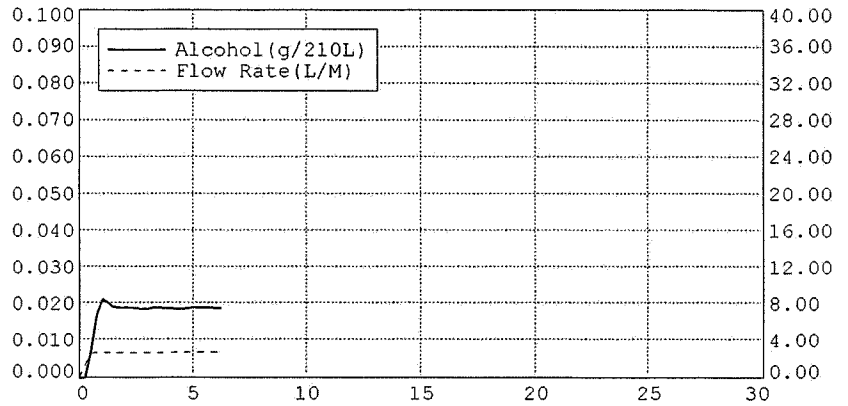
Date: 04/22/2021
 Time: 13:21:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.87: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 569 psi

BLANK TEST	0.000	13:22
INTERNAL STANDARD	VERIFIED	13:23
EXTERNAL STANDARD	0.020	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.020	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.020	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.020	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.020	13:27
BLANK TEST	0.000	13:28

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100384

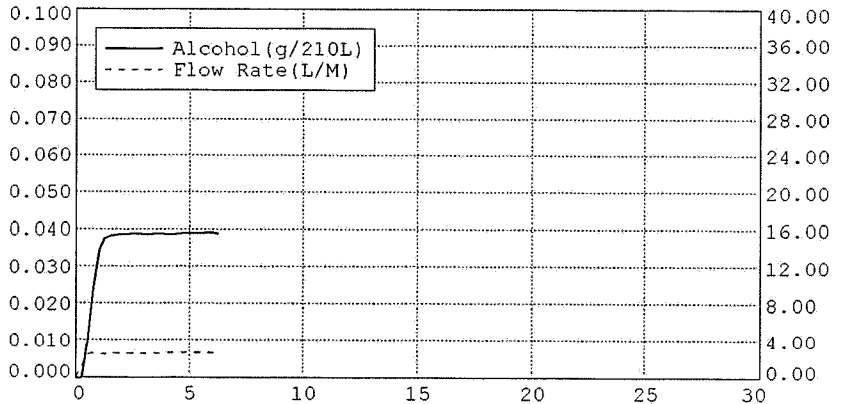
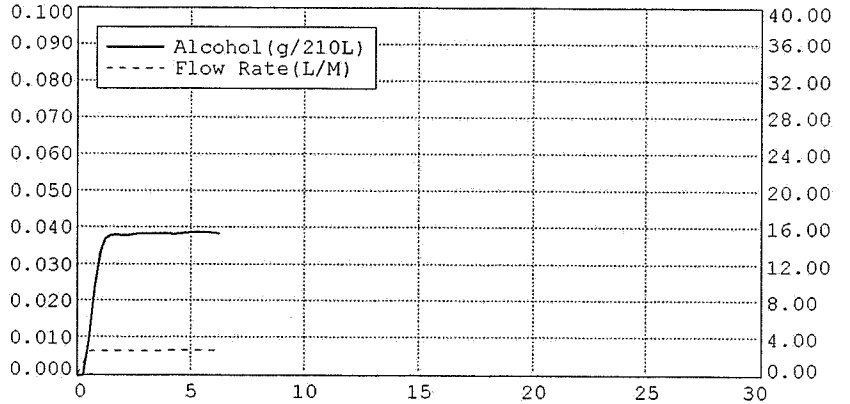
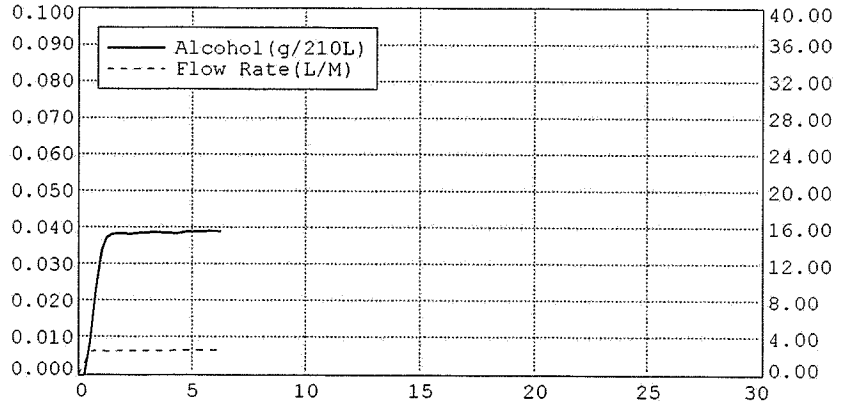
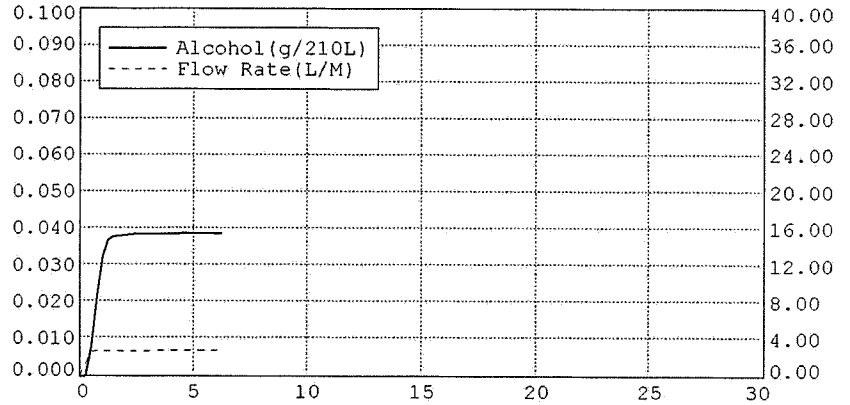
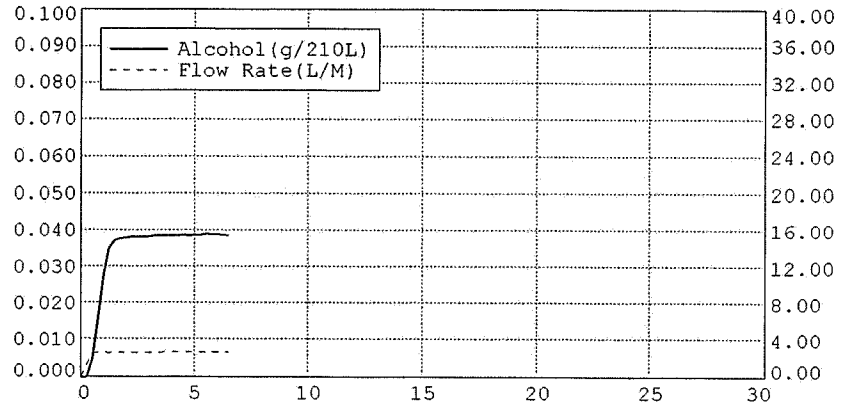
Date: 04/22/2021
 Time: 13:29:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.87: 0.040
 LOT #: AG915607
 EXPIRATION: 06/05/2021
 TANK PRESSURE: 530 psi

BLANK TEST	0.000	13:30
INTERNAL STANDARD	VERIFIED	13:30
EXTERNAL STANDARD	0.040	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.040	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.040	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.040	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.040	13:34
BLANK TEST	0.000	13:35

Average = 0.0400
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100384

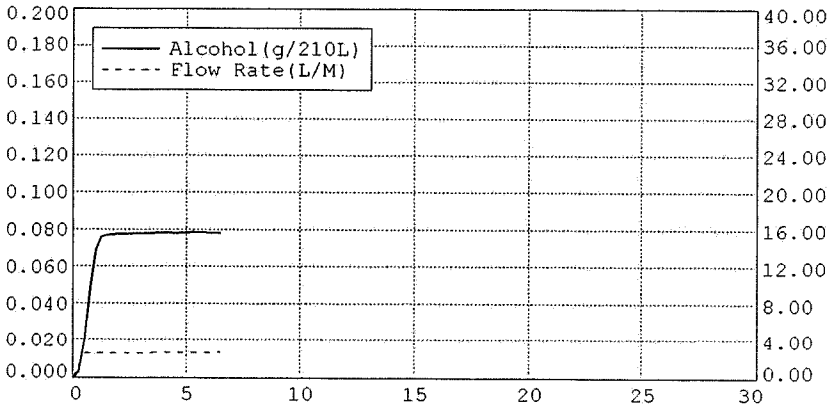
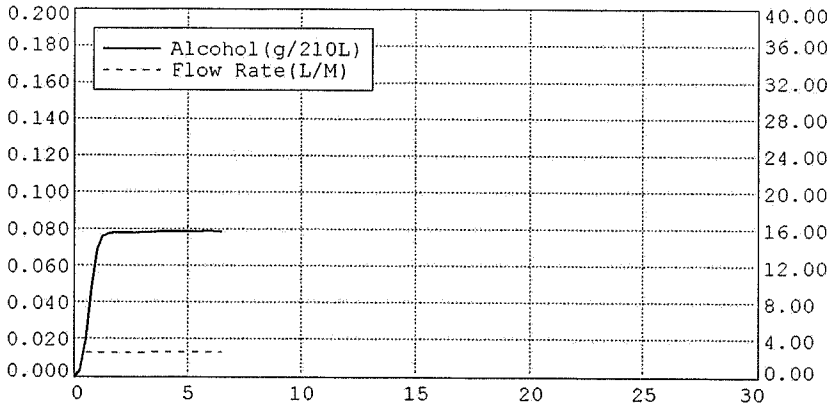
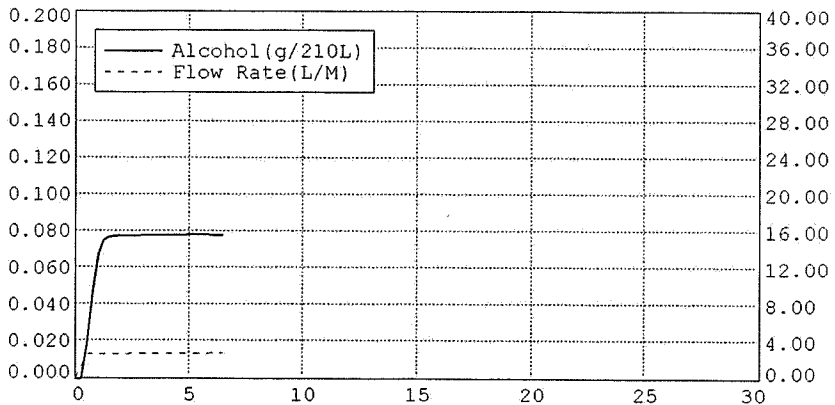
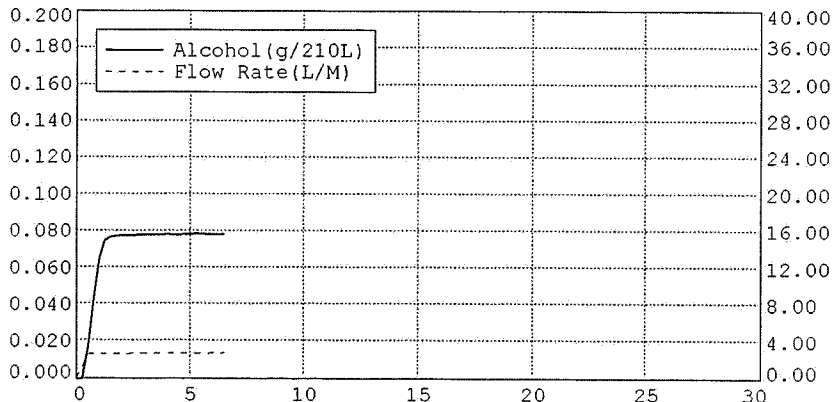
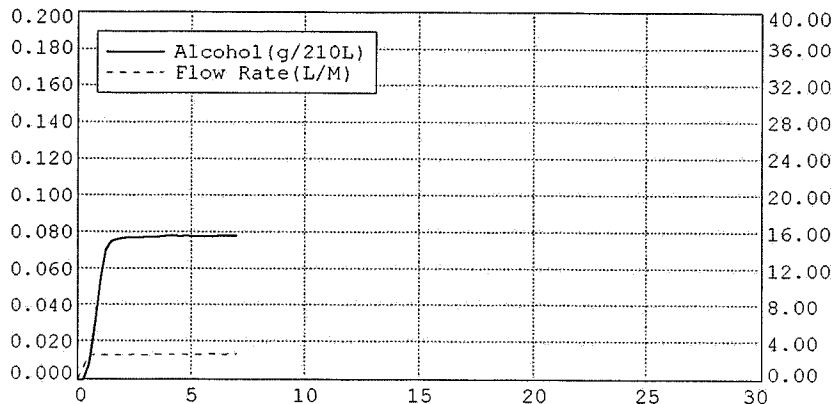
Date: 04/22/2021
 Time: 13:37:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.87: 0.080
 LOT #: AG923401
 EXPIRATION: 08/22/2021
 TANK PRESSURE: 623 psi

BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
EXTERNAL STANDARD	0.079	13:39
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.079	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.079	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.080	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.080	13:43
BLANK TEST	0.000	13:44

Average = 0.0794
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100384

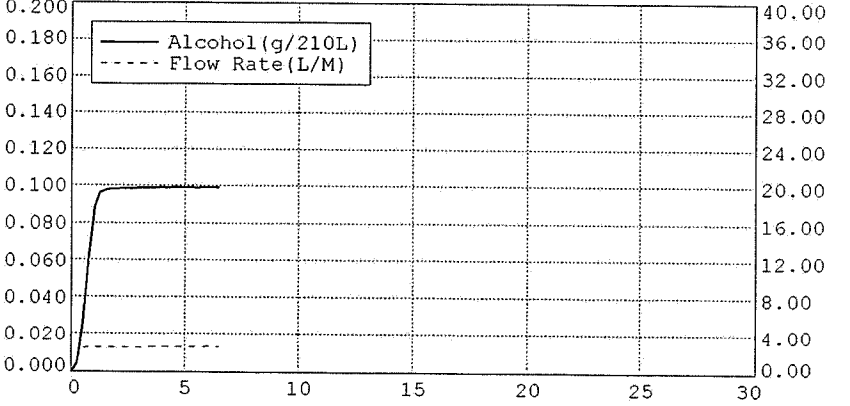
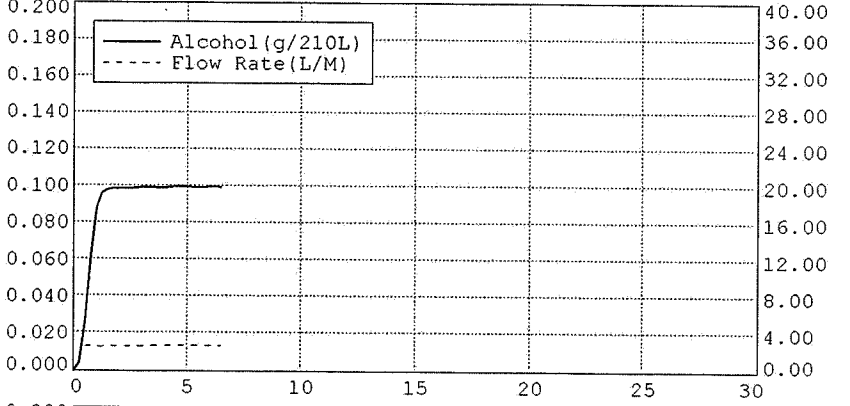
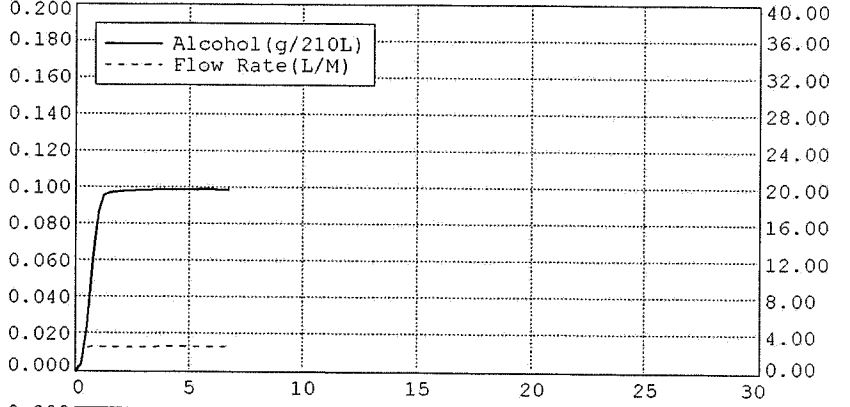
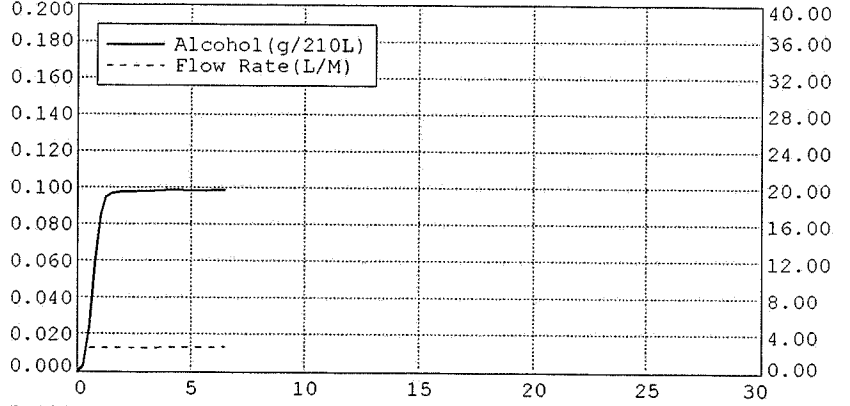
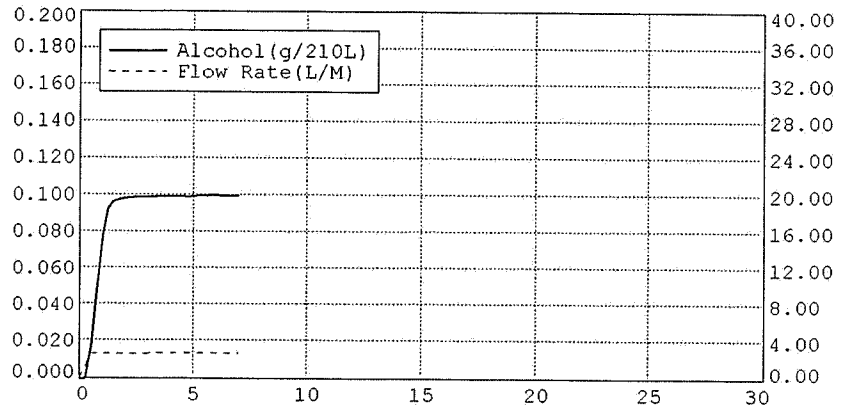
Date: 04/22/2021
 Time: 13:45:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.87: 0.100
 LOT #: AG924701
 EXPIRATION: 09/04/2021
 TANK PRESSURE: 611 psi

BLANK TEST	0.000	13:46
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.100	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.100	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.100	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.100	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.100	13:51
BLANK TEST	0.000	13:52

Average = 0.1000
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

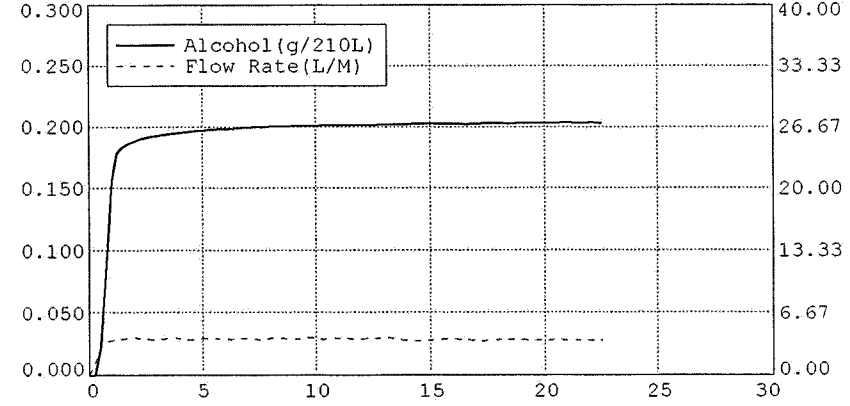
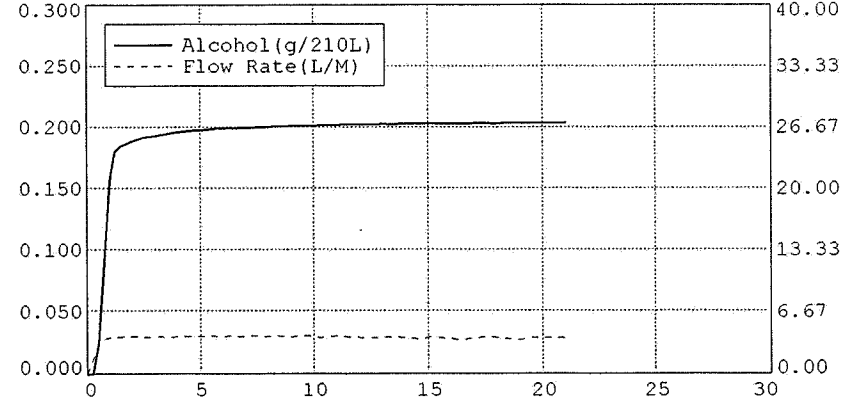
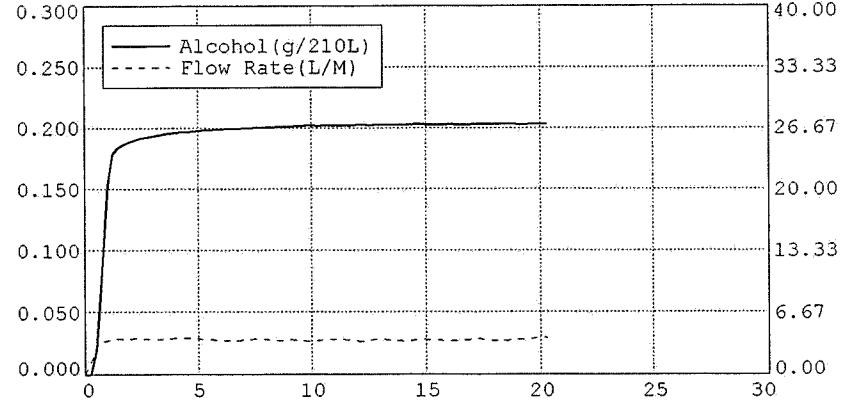
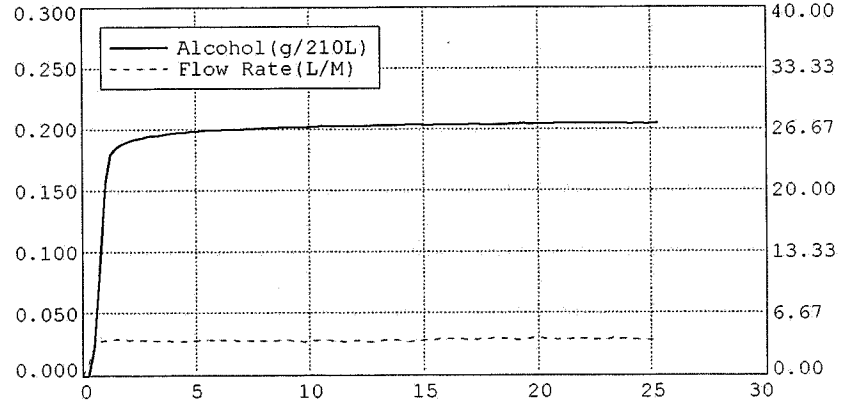
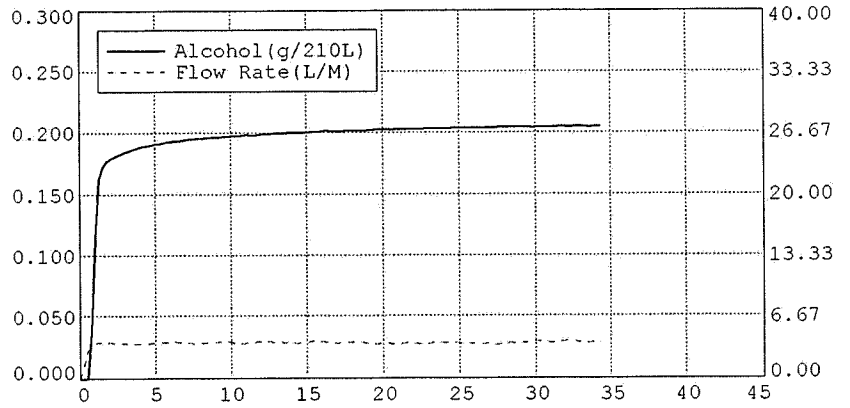
Alaska Department of Public Safety
 DATAMASTER dmt: 100384

Date: 04/22/2021
 Time: 14:14:12

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 19200
 EXPIRATION: 08/06/2021

BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:15
EXTERNAL STANDARD	0.206	14:16
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.206	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.204	14:18
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.204	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.205	14:21
BLANK TEST	0.000	14:22

Average = 0.2050
 Std Dev = 0.0010



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100384

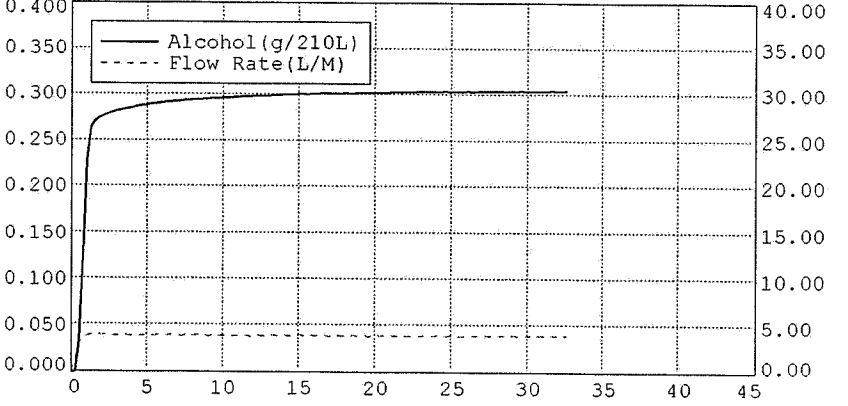
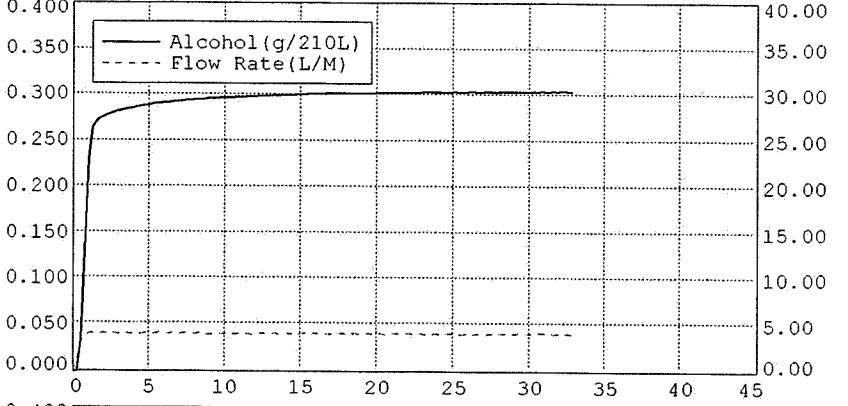
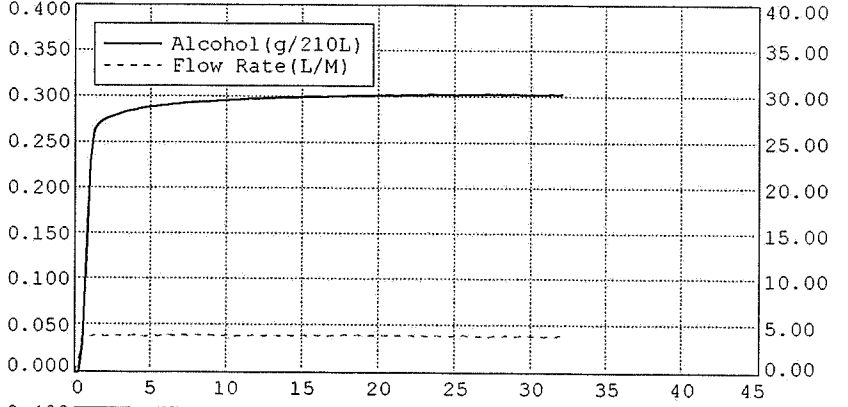
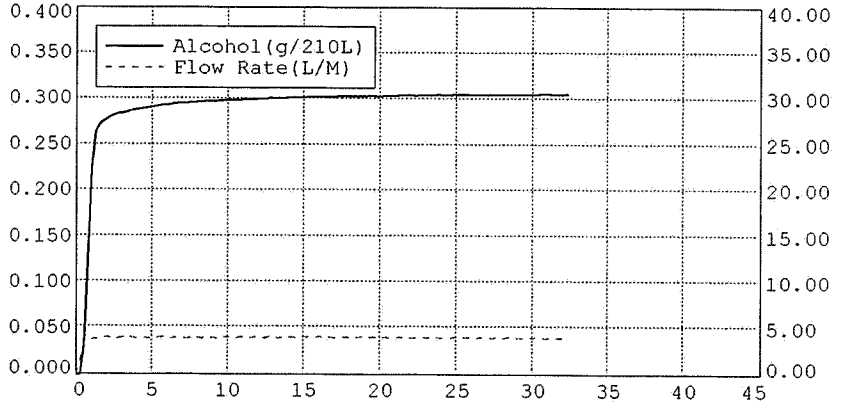
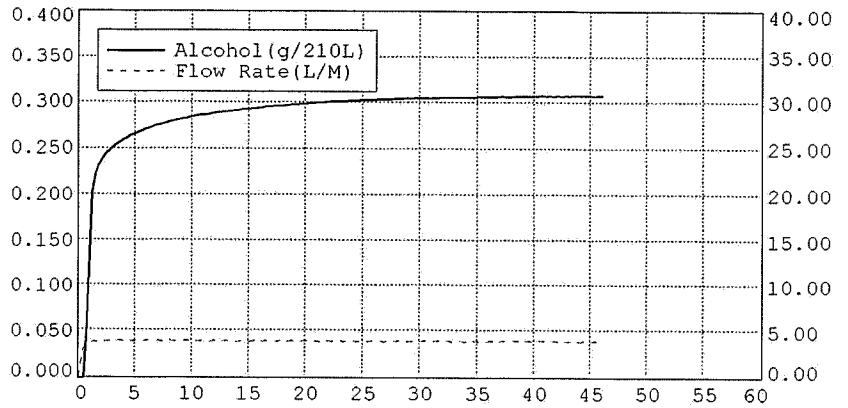
Date: 04/22/2021
Time: 14:27:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 19330
EXPIRATION: 11/13/2021

BLANK TEST	0.000	14:28
INTERNAL STANDARD	VERIFIED	14:28
EXTERNAL STANDARD	0.308	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.306	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.304	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.305	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.306	14:35
BLANK TEST	0.000	14:36

Average = 0.3058
Std Dev = 0.0015



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 04/22/2021
Time: 14:53:35

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

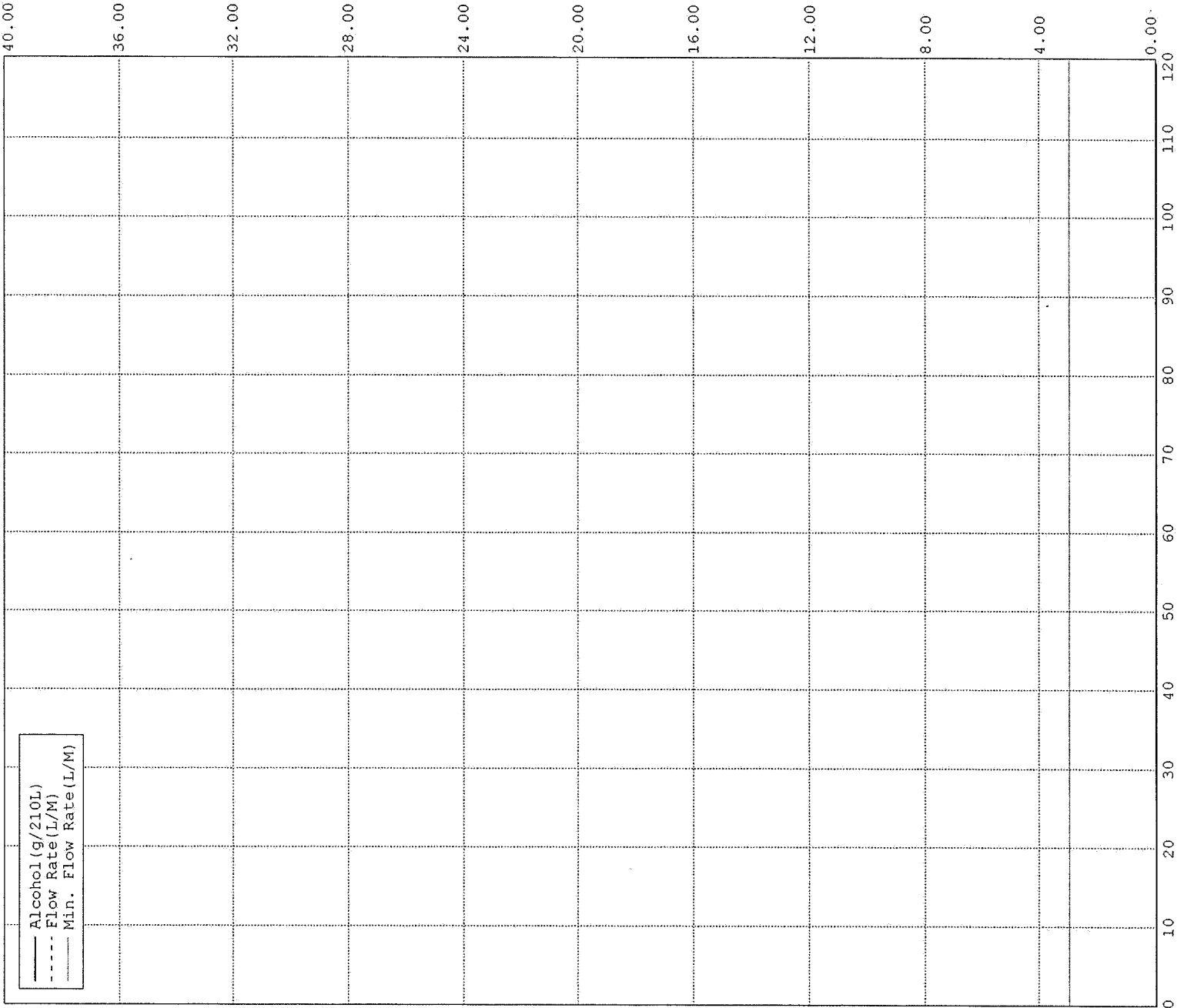
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.86: 0.080
LOT #: AG923401
EXPIRATION: 08/22/2021

DIAGNOSTIC CHECK PASSED 14:54
BLANK TEST 0.000 14:54
INTERNAL STANDARD VERIFIED 14:54
EXTERNAL STANDARD 0.079 14:55
BLANK TEST 0.000 14:56
SUBJECT SAMPLE INCOMPLETE 14:58



SUBJECT TEST

Alaska Department of Public Safety
DAMASTER dmt: 100384

Date: 04/23/2021
Time: 13:06:59

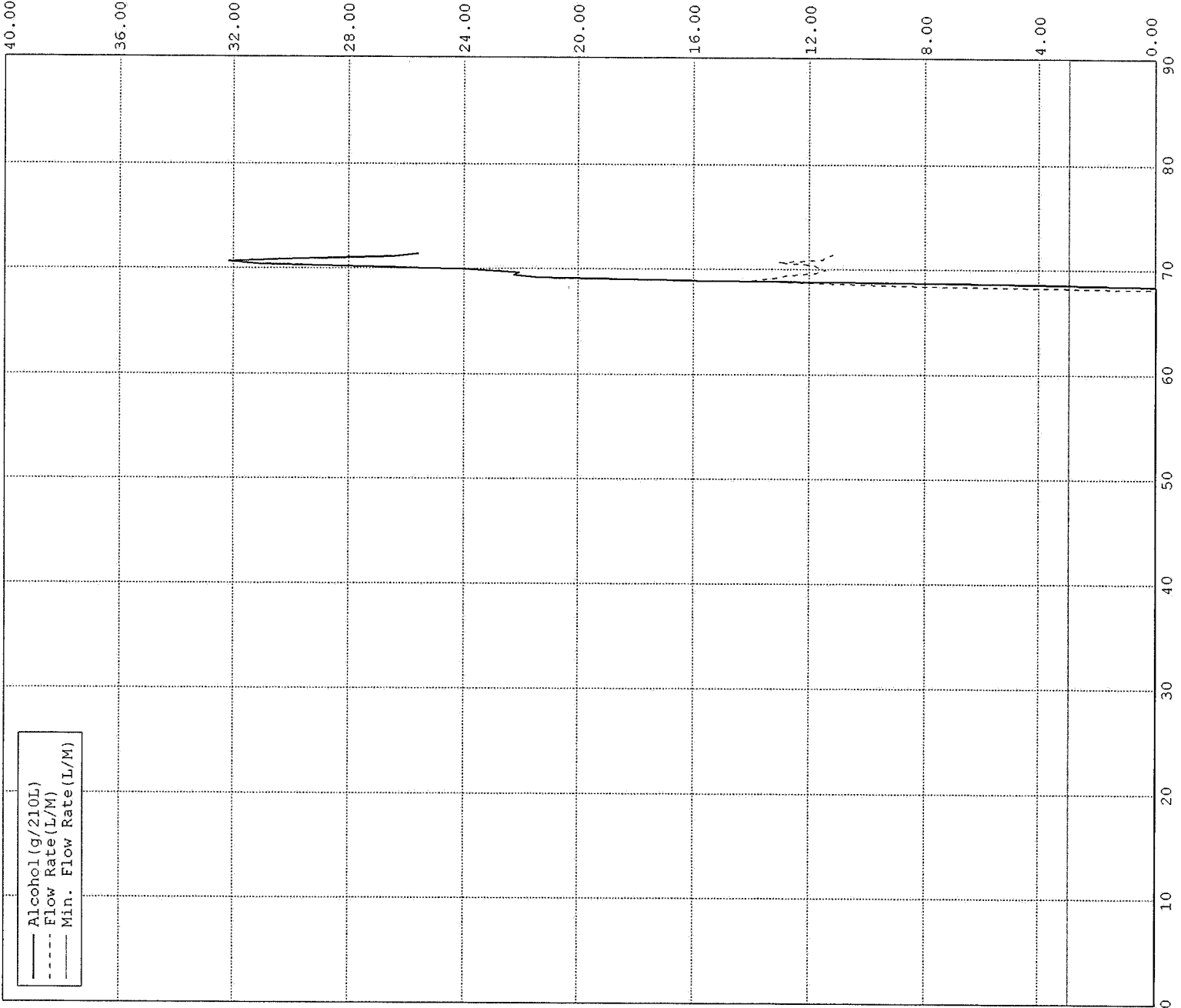
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: AG923401
EXPIRATION: 08/22/2021

DIAGNOSTIC CHECK PASSED 13:09
BLANK TEST 0.000 13:09
INTERNAL STANDARD VERIFIED 13:09
EXTERNAL STANDARD 0.079 13:09
BLANK TEST 0.000 13:10
SUBJECT SAMPLE INVALID 13:12



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 04/23/2021
Time: 13:40:18

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

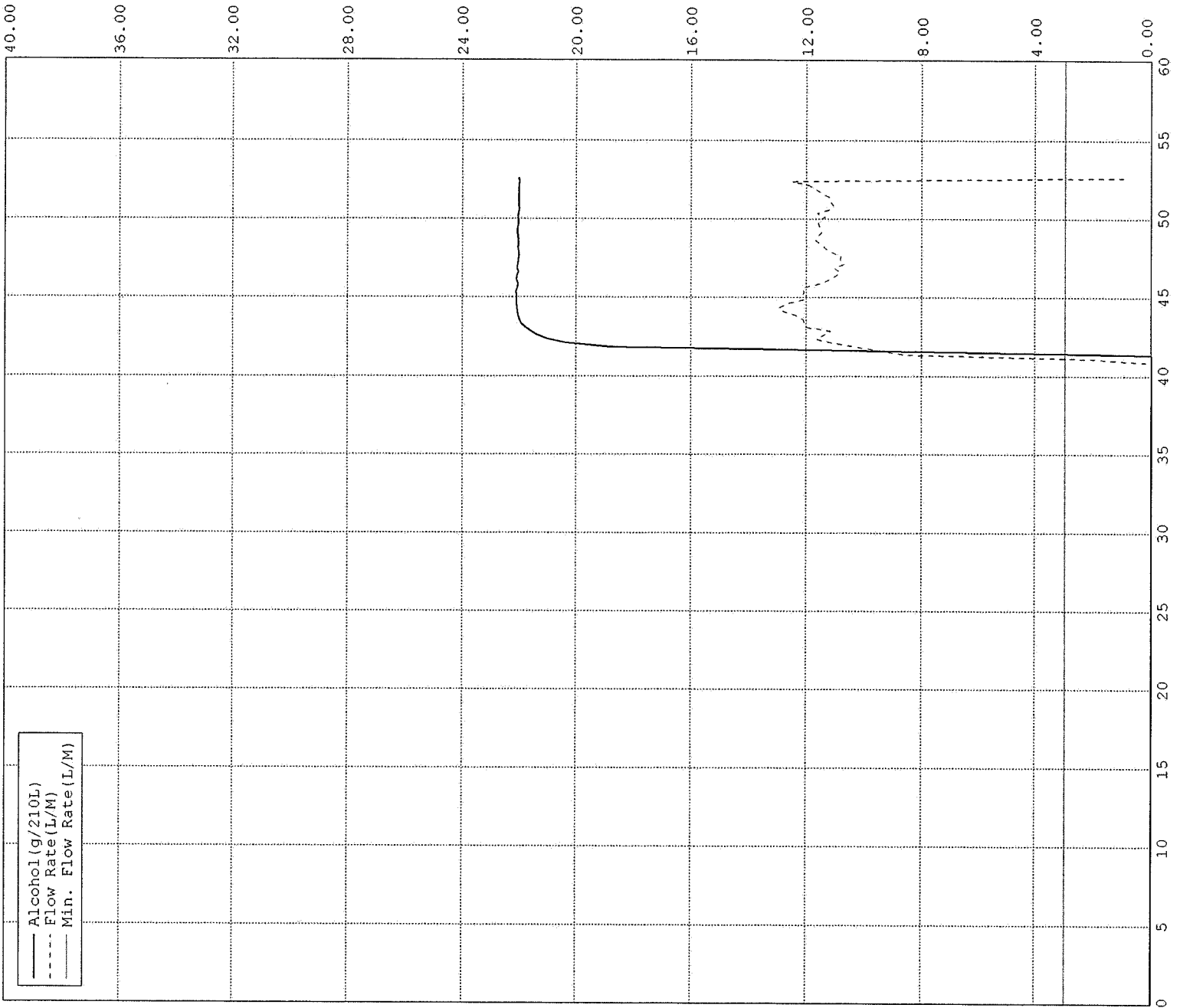
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: AG923401
EXPIRATION: 08/22/2021

DIAGNOSTIC CHECK	PASSED	13:41
BLANK TEST	0.000	13:41
INTERNAL STANDARD	VERIFIED	13:41
Xq = 0.091 (3.79%)		
EXTERNAL STANDARD	0.080	13:41
X[1] = 0.0797 (-0.0026) (0.0027)		
BLANK TEST	0.000	13:42
SUBJECT SAMPLE	XXX	13:43
X[1] = 0.1111 (-0.0171) (0.0007)		

Interference Detected

Filter 2 average: -0.0028

Filter 3 average: 0.0015



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 04/23/2021
Time: 13:24:45

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

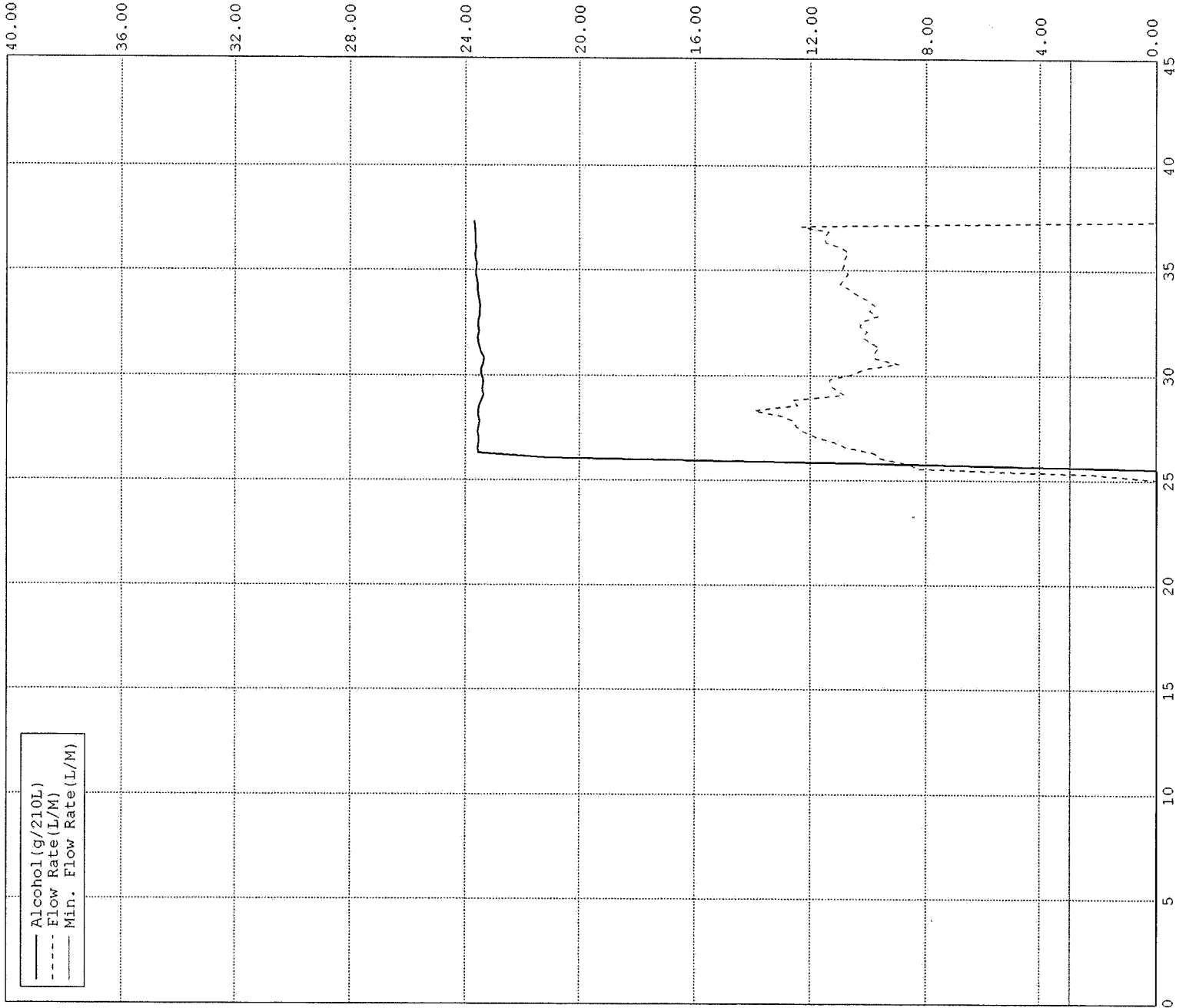
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: AG923401
EXPIRATION: 08/22/2021

DIAGNOSTIC CHECK PASSED 13:25
BLANK TEST 0.000 13:25
INTERNAL STANDARD VERIFIED 13:25
Xq = 0.090 (2.59%)
EXTERNAL STANDARD 0.079 13:26
X[1] = 0.0787 (-0.0025) (0.0011)
BLANK TEST 0.000 13:27
SUBJECT SAMPLE XXX 13:27
X[1] = 0.1189 (-0.0274) (-0.0004)

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 04/23/2021
Time: 13:30:06

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

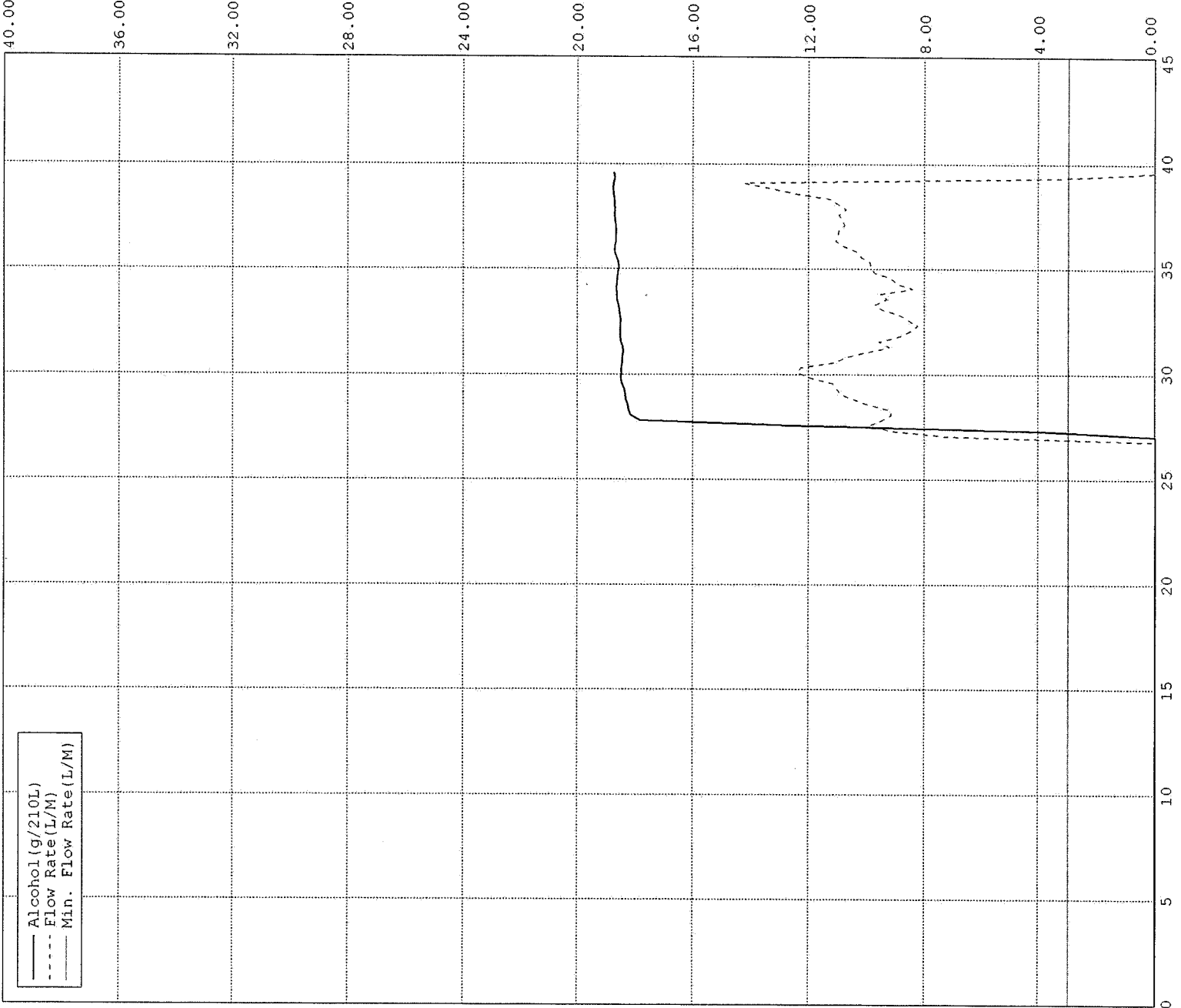
DEPT/AGENCY:
INTERFERENCE NEGATIVE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.080
LOT #: AG923401
EXPIRATION: 08/22/2021

DIAGNOSTIC CHECK	PASSED	13:31
BLANK TEST	0.000	13:31
INTERNAL STANDARD	VERIFIED	13:31
Xq = 0.090 (3.19%)		
EXTERNAL STANDARD	0.079	13:31
X[1] = 0.0794 (-0.0026)	(0.0016)	
BLANK TEST	0.000	13:32
SUBJECT SAMPLE (Vol=2.11L)	0.094	13:33
X[1] = 0.0945 (-0.0013)	(0.0004)	
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.079	13:34
X[1] = 0.0787 (-0.0034)	(0.0007)	
BLANK TEST	0.000	13:35

DW



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100384

Date: 04/22/2021
 Time: 15:01:55

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

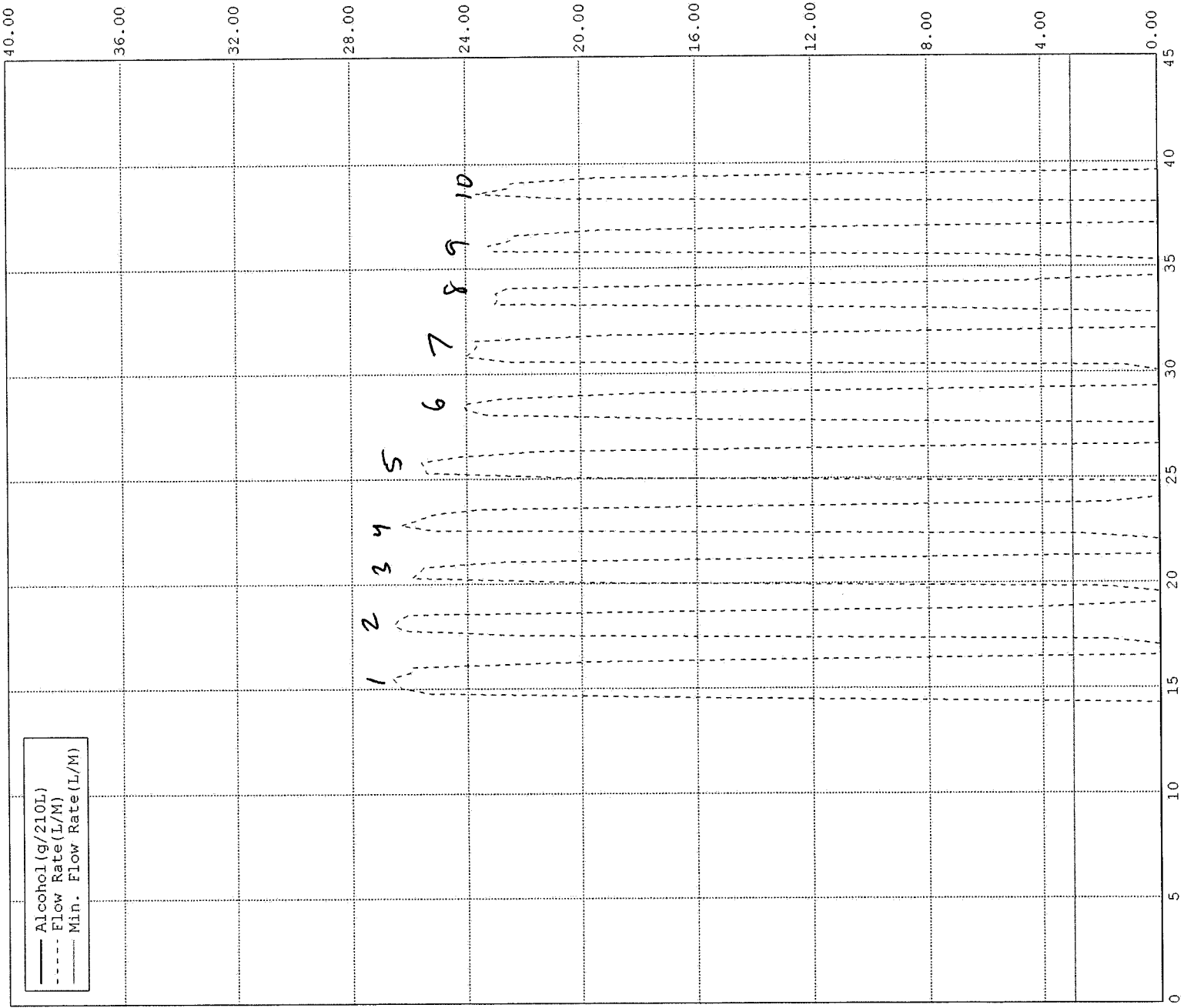
OPERATOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.85: 0.080
 LOT #: AG923401
 EXPIRATION: 08/22/2021

DIAGNOSTIC CHECK PASSED 15:02
 BLANK TEST 0.000 15:03
 INTERNAL STANDARD VERIFIED 15:03
 EXTERNAL STANDARD 0.080 15:03
 BLANK TEST 0.000 15:04
 SUBJECT SAMPLE XXX 15:05

Maximum Attempts Exceeded



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100384

Date: 04/23/2021
 Time: 13:13:58

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

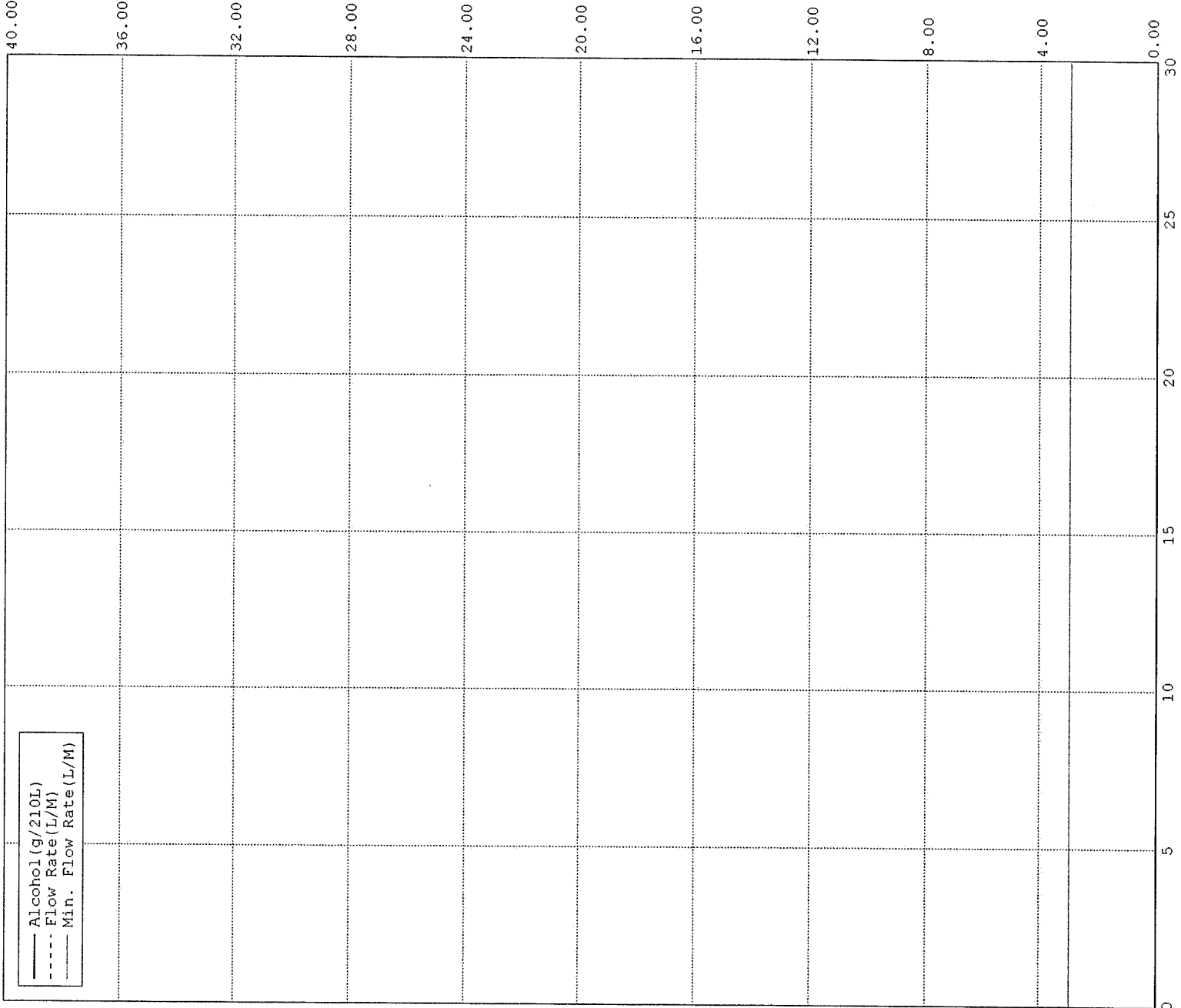
DEPT/AGENCY:
 RADIO FREQUENCY
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.77: 0.080
 LOT #: AG923401
 EXPIRATION: 08/22/2021

DIAGNOSTIC CHECK PASSED 13:15
 BLANK TEST 0.000 13:15
 INTERNAL STANDARD VERIFIED 13:16
 EXTERNAL STANDARD 0.080 13:16
 BLANK TEST 0.000 13:17

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100384

Date: 04/23/2021
Time: 14:26:52

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 29.77: 0.080
LOT #: AG923401
EXPIRATION: 08/22/2021

DIAGNOSTIC CHECK	PASSED	14:27
BLANK TEST	0.000	14:27
INTERNAL STANDARD	VERIFIED	14:28
EXTERNAL STANDARD	0.080	14:28
BLANK TEST	0.000	14:29
SUBJECT SAMPLE (Vol=2.18L)	0.000	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.080	14:31
BLANK TEST	0.000	14:32

