

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 100351 Analyst Dereck Watten Start Date 07/14/21

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 Airgas Lot AG928203 Exp 10/09/2021

ii. 0.040g/210L Mnf Airgas Lot AG111710 Exp 04/27/23

iii. 0.080g/210L Mnf Airgas Lot AG018102 Exp 06/29/22

iv. 0.100g/210L Mnf Airgas Lot AG108404 Exp 03/25/23

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

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

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

Simulator S/N DR4177 Date Calibrated 11/17/20

Functional Tests (attached)

Incomplete

Invalid

Interference

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

Simulator S/N DR4178 Date Calibrated 11/18/20

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

Simulator S/N DR4176 Date Calibrated 11/18/20

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

Simulator S/N DR4163 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 07/15/21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 07/14/2021
Time: 09:42:19

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

TEMPERATURES

Sample Chamber = 49.0°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.87 V PASSED
(1.15 V - 2.69 V)
Cooler Voltage = 1.83 V PASSED
(1.12 V - 2.60 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 525 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.546 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
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED
Xq = 0.122 0.36% ✓ (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100351

Date: 07/14/2021
Time: 10:17 AM

Temperatures (°C)
Sample Cell: 49.0°C
Breath Tube: 45.1°C

Current Barometer 29.8 in
Volume (Ltr) 1.50 ✓

Settings
Lamp: 1.87 V
Bias: 80 V
Cooler: 1.83 V
Chopper: 525 Hz

Voltages (V)
Flow: 1.04 V
Detector: -0.018 V ✓

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 03/18/2020
Time: 08:09:54

OPERATOR NAME:
INTOX I METERS
CERTIFICATE #: 1

Ca = 0.2000
CAL = 0.975058 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0055 0.0010 <= b2 < 0.0100
b3 = 0.0008 0.0000 <= b3 < 0.0040
Xq = 0.1217 0.0500 <= Xq < 0.2000
a21 = 1.157872 1.050 <= a21 < 1.300
a31 = 0.464353 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100351

Date: 07/14/2021
Time: 10:20:11

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

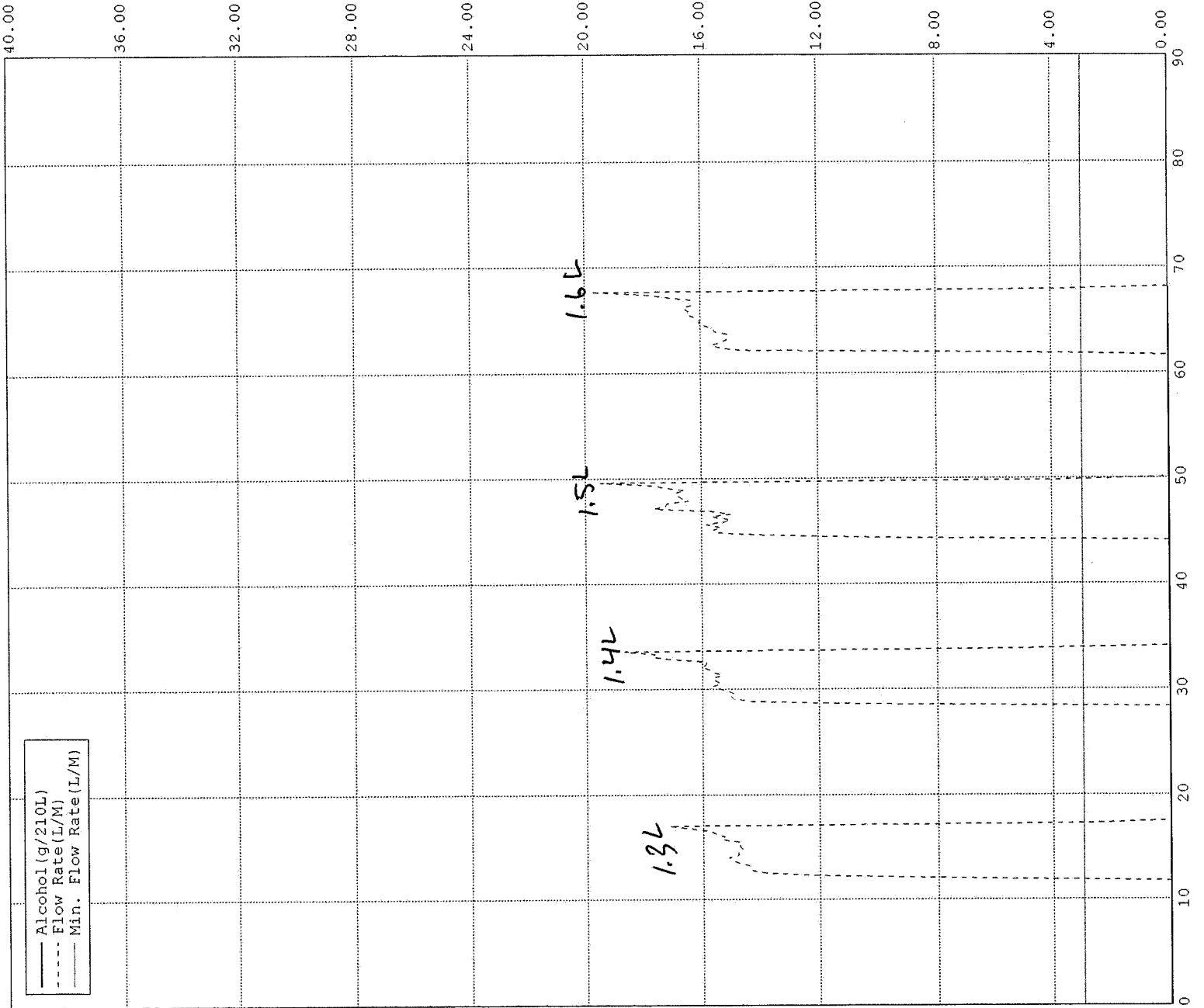
DEPT/AGENCY:
MINIMUM VOLUME
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	10:21
BLANK TEST	0.000	10:21
INTERNAL STANDARD	VERIFIED	10:21
EXTERNAL STANDARD	0.078	10:21
BLANK TEST	0.000	10:22
SUBJECT SAMPLE (Vol=1.58L)	0.000	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.078	10:24
BLANK TEST	0.000	10:25

MW



LINEARITY CHECK

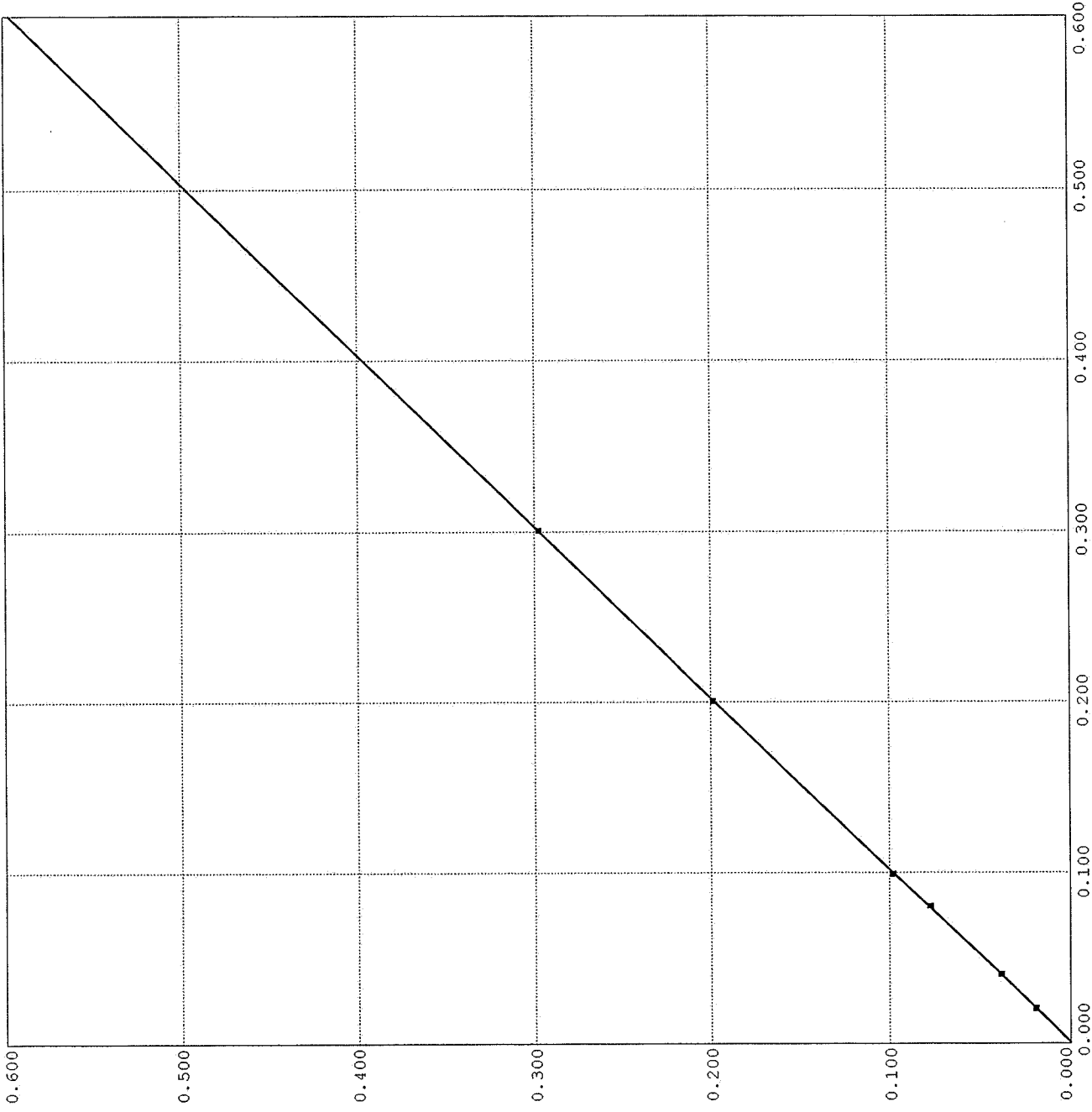
 Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 07/14/2021
 Time: 10:32:01

SUPERVISOR NAME:
 DEREK WALTON
 OPERATOR'S #: 9508

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0394	0.0005
0.080	0.0784	0.0005
0.099	0.0990	0.0000
0.200	0.1996	0.0005
0.300	0.2982	0.0004

SLOPE = 0.995977
 R² = 0.999962



DW

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

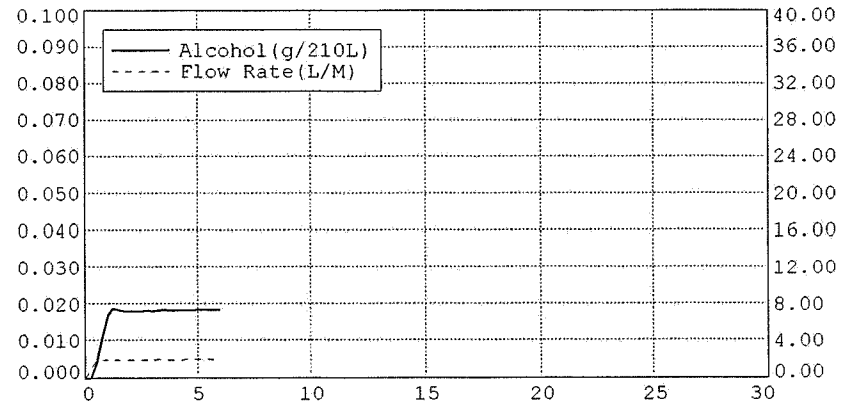
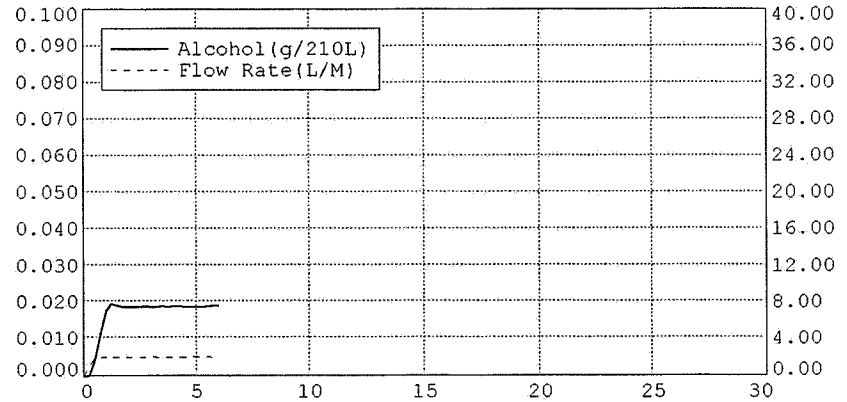
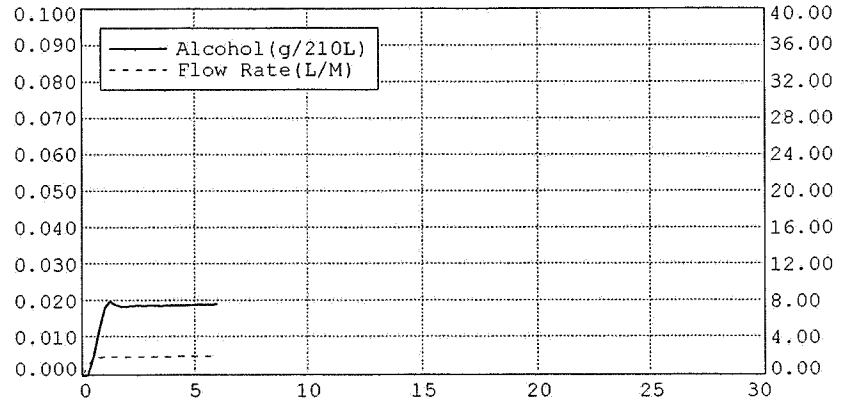
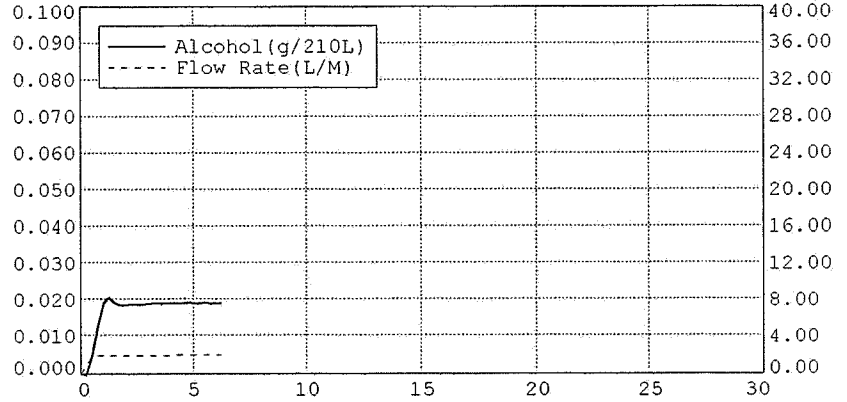
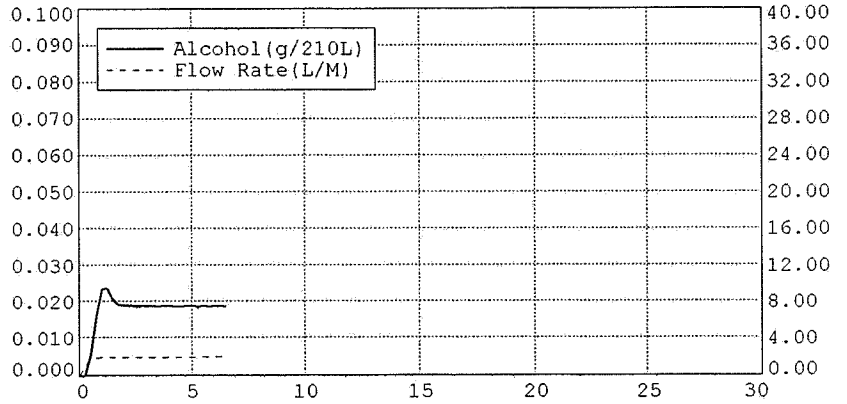
Date: 07/14/2021
 Time: 10:32:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.77: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 424 psi

BLANK TEST	0.000	10:33
INTERNAL STANDARD	VERIFIED	10:33
EXTERNAL STANDARD	0.020	10:33
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.020	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.020	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.020	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.020	10:37
BLANK TEST	0.000	10:38

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100351

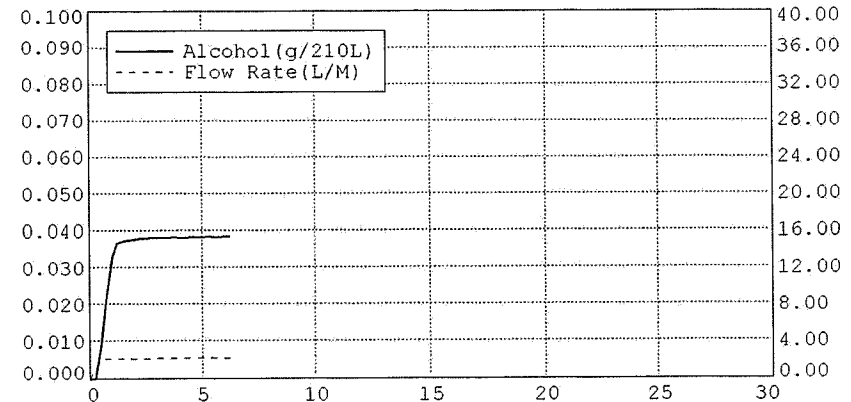
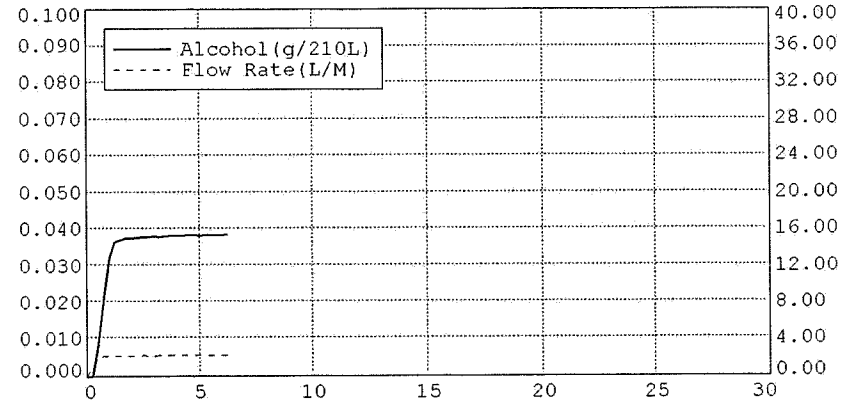
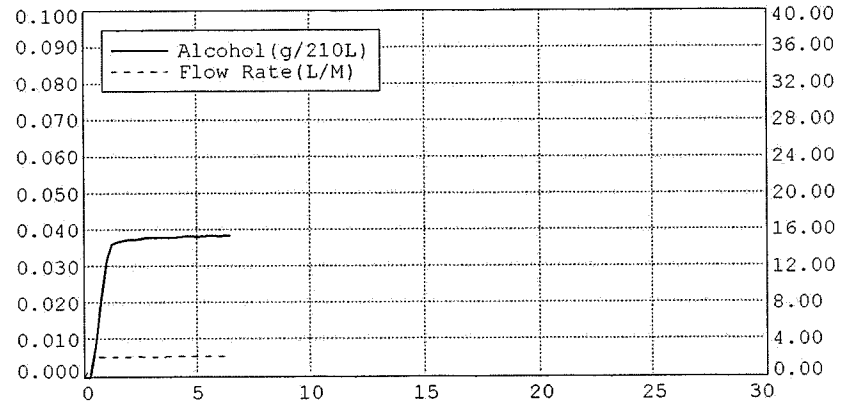
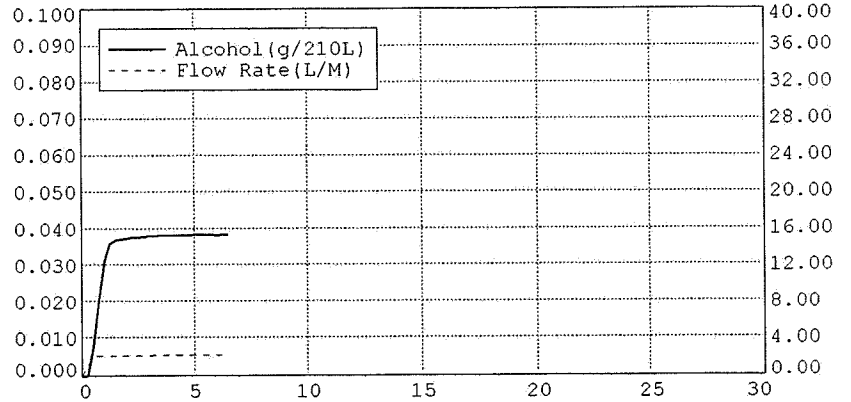
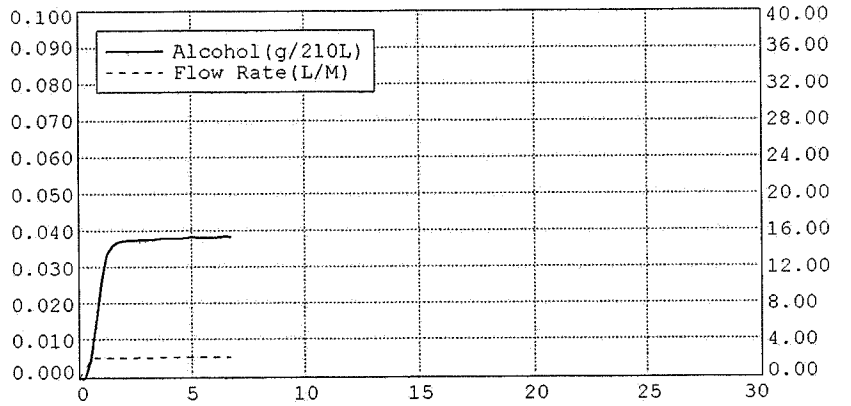
Date: 07/14/2021
Time: 10:47:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.78: 0.040
LOT #: AG111710
EXPIRATION: 04/27/2023
TANK PRESSURE: 974 psi

BLANK TEST	0.000	10:49
INTERNAL STANDARD	VERIFIED	10:49
EXTERNAL STANDARD	0.039	10:49
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.040	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.039	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.039	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.040	10:53
BLANK TEST	0.000	10:54

Average = 0.0394
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

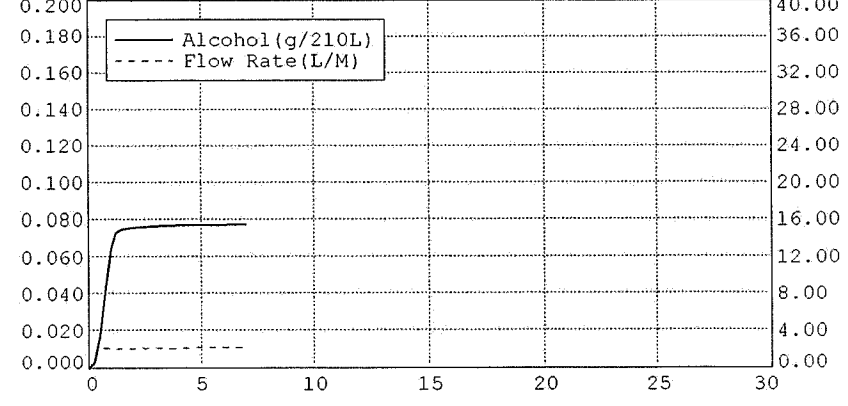
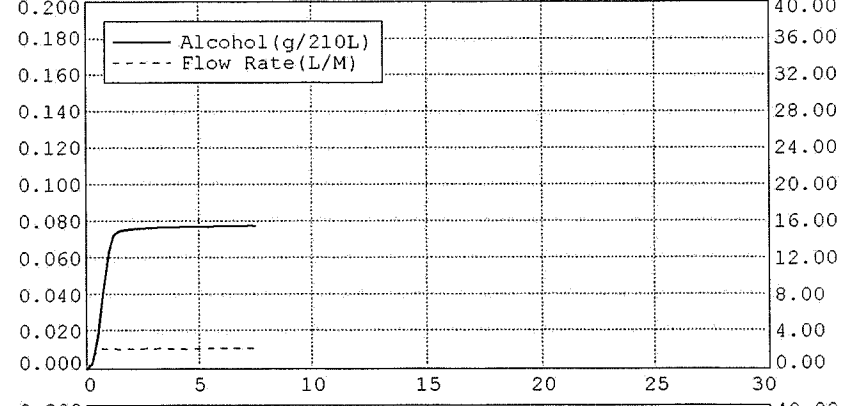
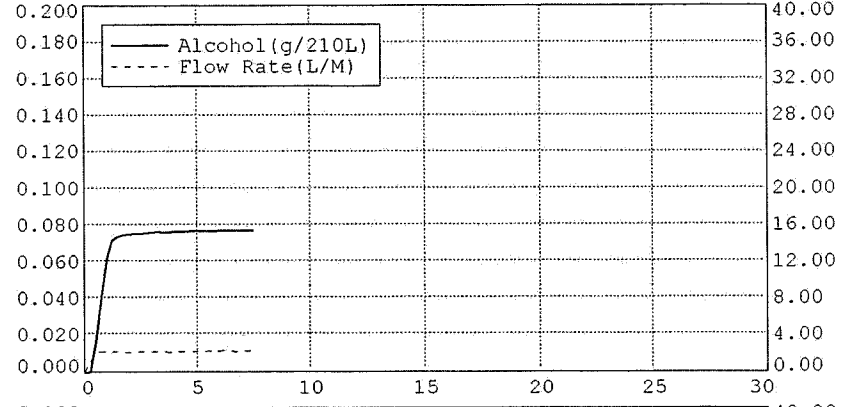
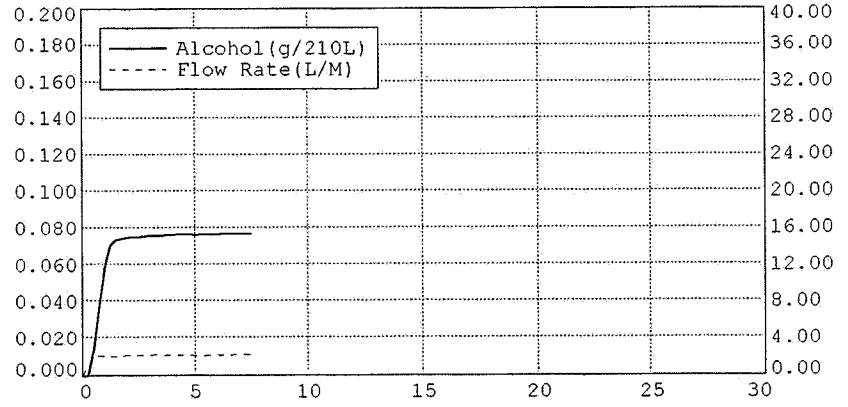
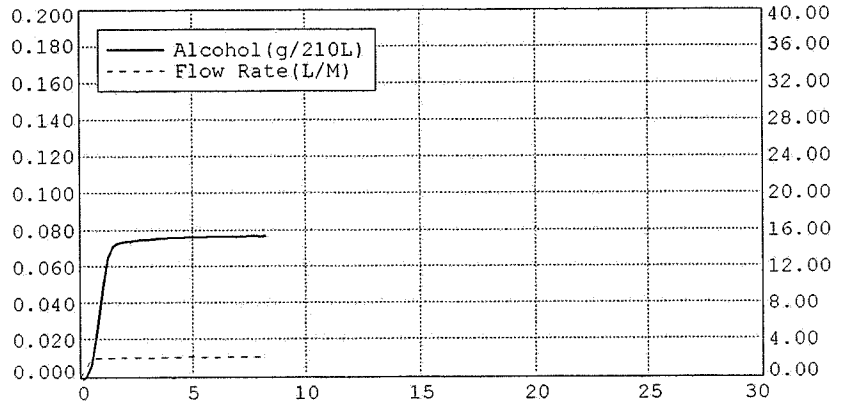
Date: 07/14/2021
 Time: 10:59:10

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.77: 0.080
 LOT #: AG018102
 EXPIRATION: 06/29/2022
 TANK PRESSURE: 960 psi

BLANK TEST	0.000	11:00
INTERNAL STANDARD	VERIFIED	11:00
EXTERNAL STANDARD	0.078	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.078	11:01
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.078	11:03
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.079	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.079	11:05
BLANK TEST	0.000	11:06

Average = 0.0784
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

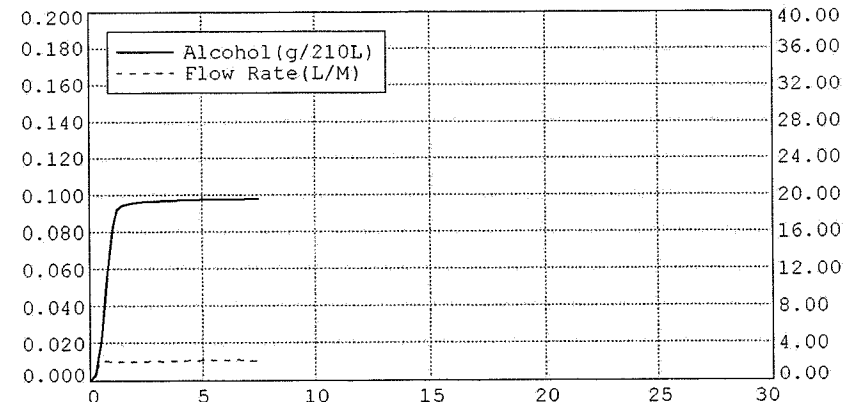
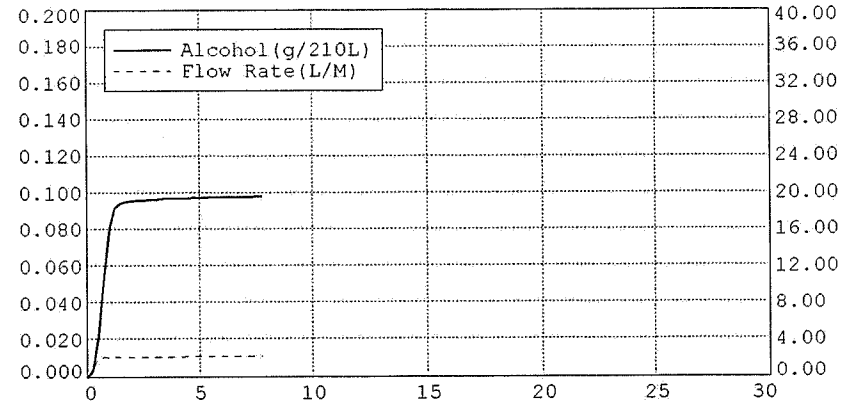
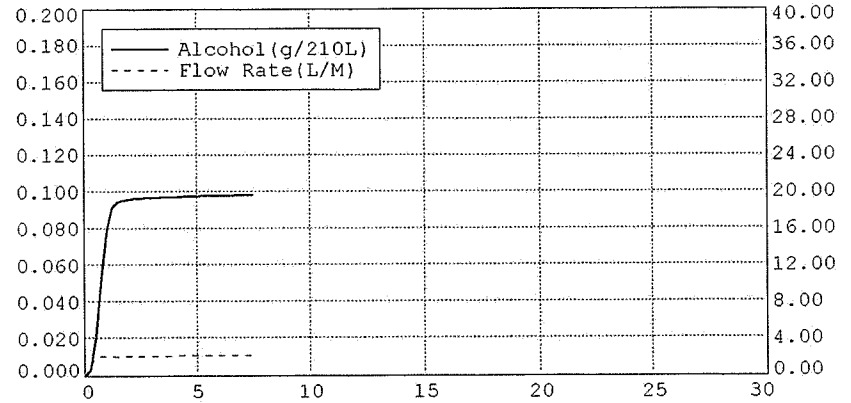
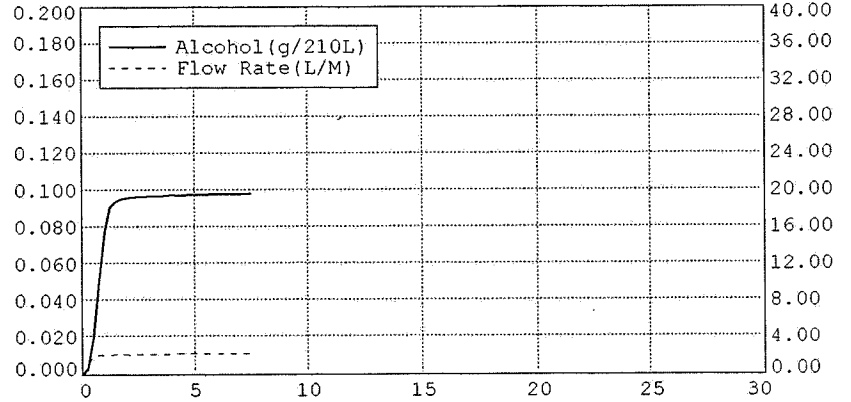
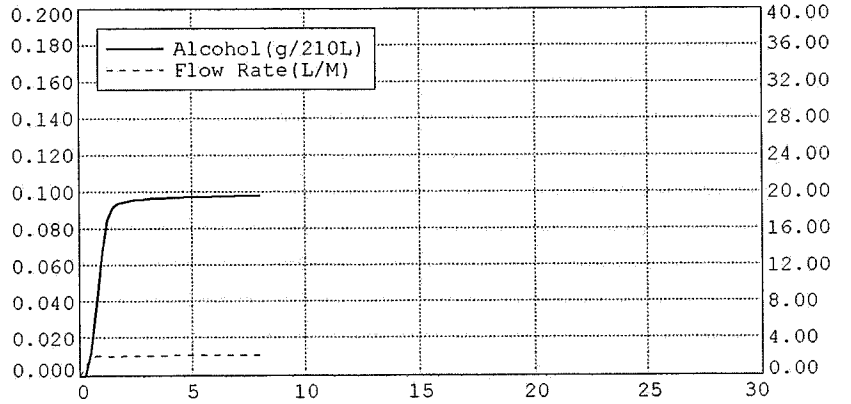
Date: 07/14/2021
 Time: 11:10:47

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.77: 0.099
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 985 psi

BLANK TEST	0.000	11:12
INTERNAL STANDARD	VERIFIED	11:12
EXTERNAL STANDARD	0.099	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.099	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.099	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.099	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.099	11:16
BLANK TEST	0.000	11:17

Average = 0.0990
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

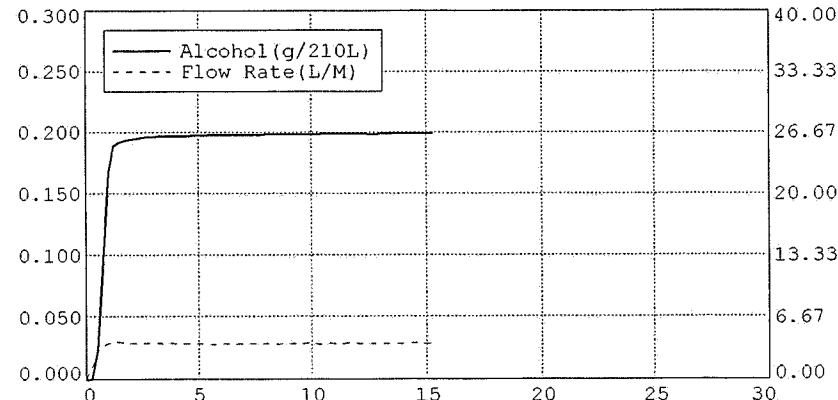
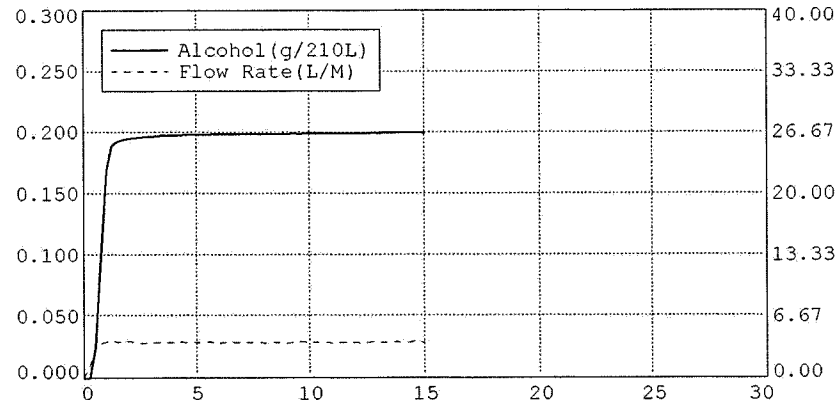
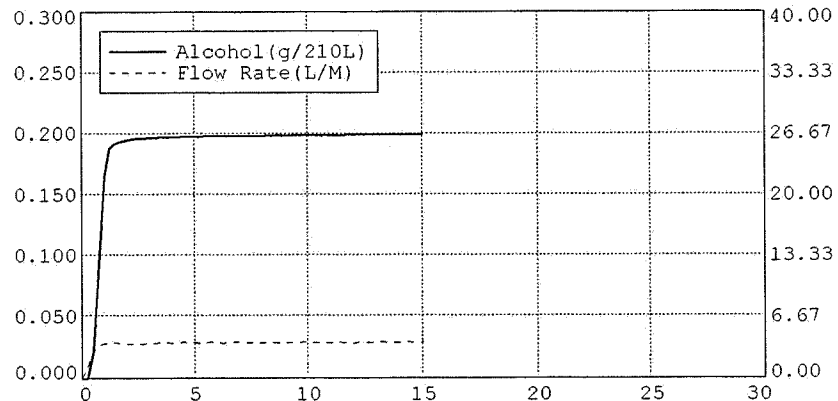
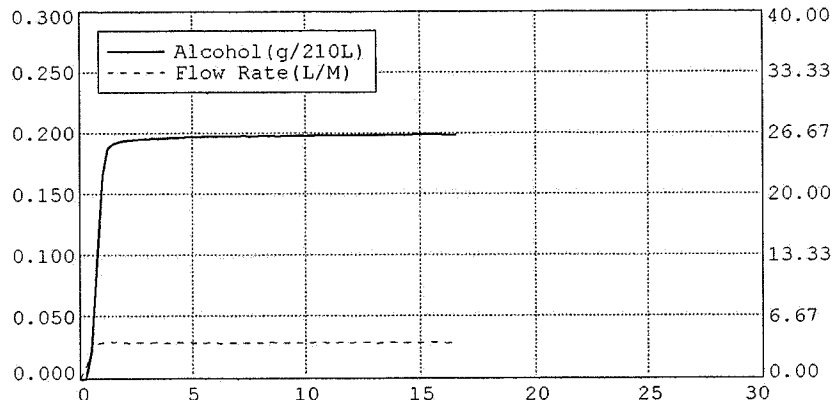
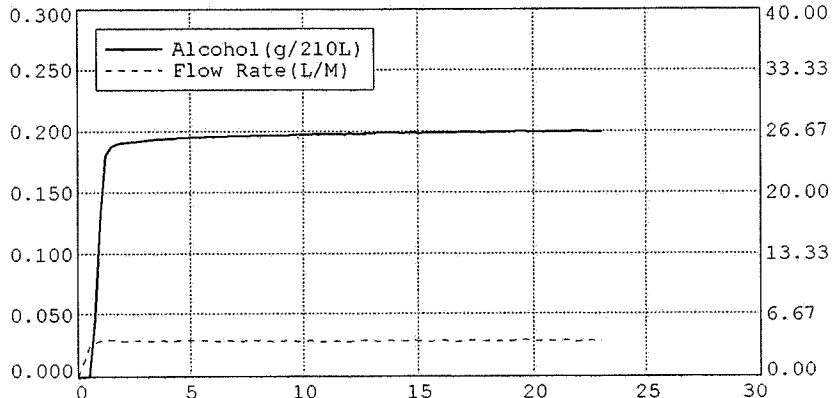
Date: 07/14/2021
 Time: 11:19:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 19200
 EXPIRATION: 08/06/2021

BLANK TEST	0.000	11:21
INTERNAL STANDARD	VERIFIED	11:21
EXTERNAL STANDARD	0.200	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.199	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.199	11:24
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.200	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.200	11:26
BLANK TEST	0.000	11:27

Average = 0.1996
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

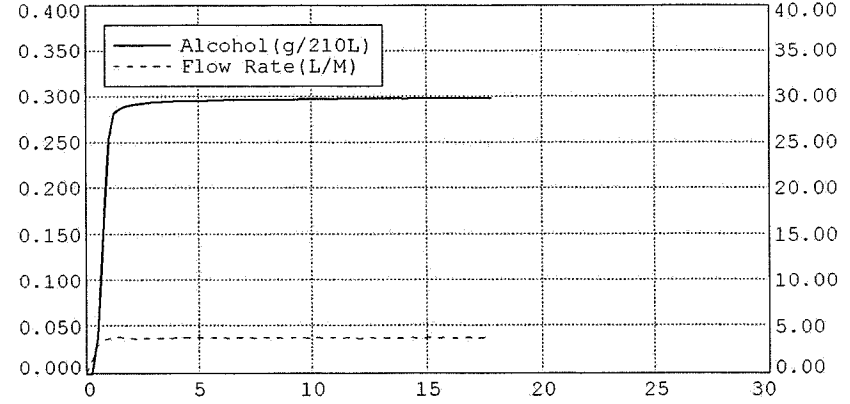
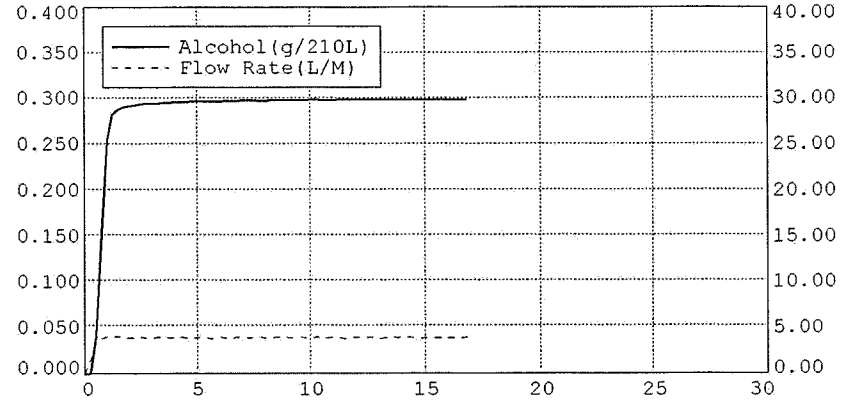
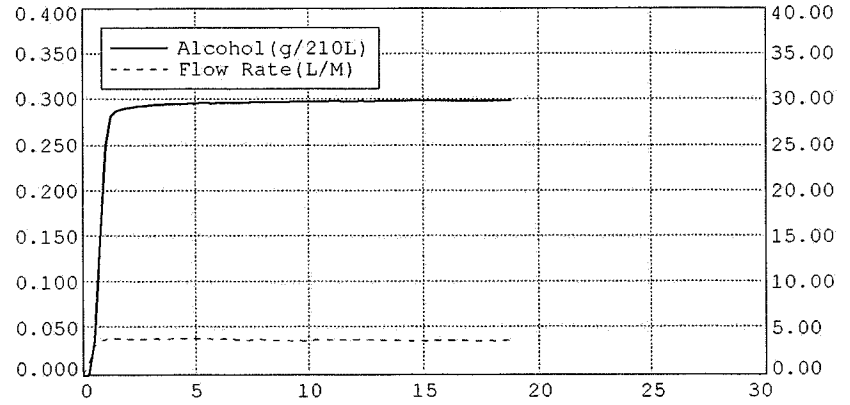
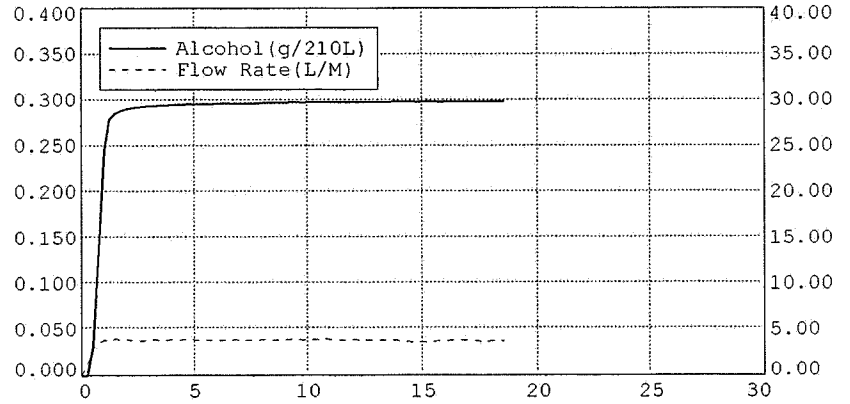
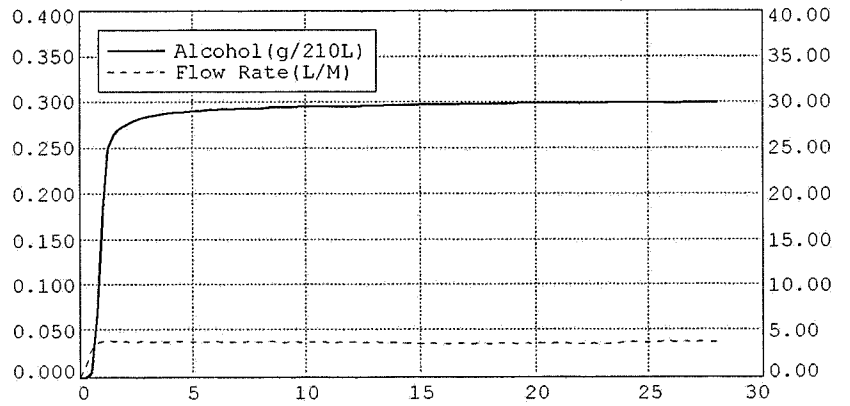
Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 07/14/2021
Time: 11:32:15

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.300
LOT #: 19330
EXPIRATION: 11/13/2021

BLANK TEST	0.000	11:33
INTERNAL STANDARD	VERIFIED	11:33
EXTERNAL STANDARD	0.299	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.298	11:35
BLANK TEST	0.000	11:36
EXTERNAL STANDARD	0.298	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.298	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.298	11:39
BLANK TEST	0.000	11:40

Average = 0.2982
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety

DATA MASTER dmt: 100351

Date: 07/14/2021
Time: 11:49:07

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

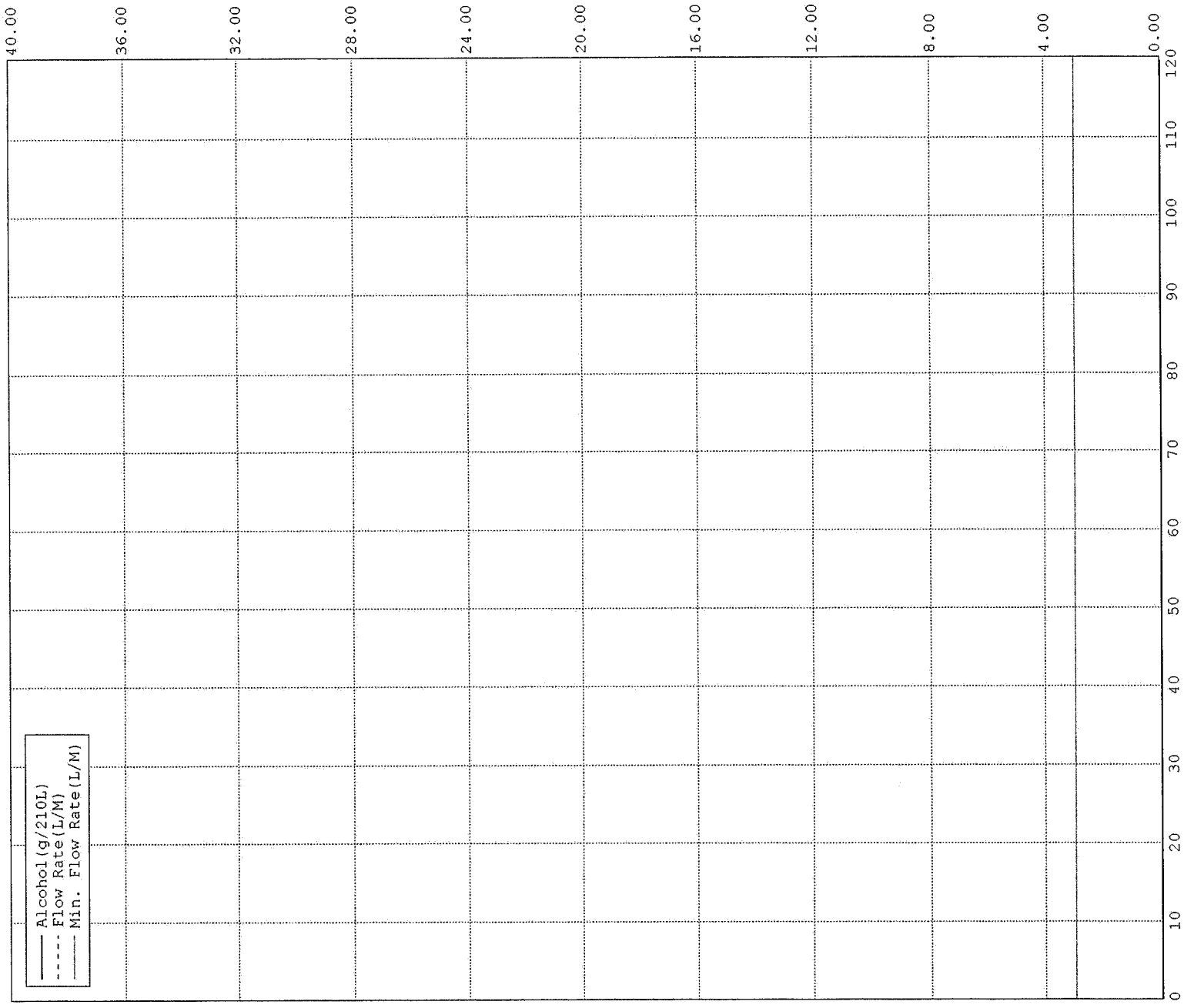
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK
BLANK TEST PASSED 11:51
INTERNAL STANDARD VERIFIED 11:52
EXTERNAL STANDARD 0.078 11:52
BLANK TEST 0.000 11:53
SUBJECT SAMPLE INCOMPLETE 11:55



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 07/15/2021
Time: 10:42:17

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 29.77: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 10:43
BLANK TEST 0.000 10:43
INTERNAL STANDARD VERIFIED 10:43
EXTERNAL STANDARD 0.078 10:43
BLANK TEST 0.000 10:44
SUBJECT SAMPLE INVALID 10:45

DW



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100351

Date: 07/15/2021
 Time: 10:33:19

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 29.77: 0.080
 LOT #: AG018102
 EXPIRATION: 06/29/2022

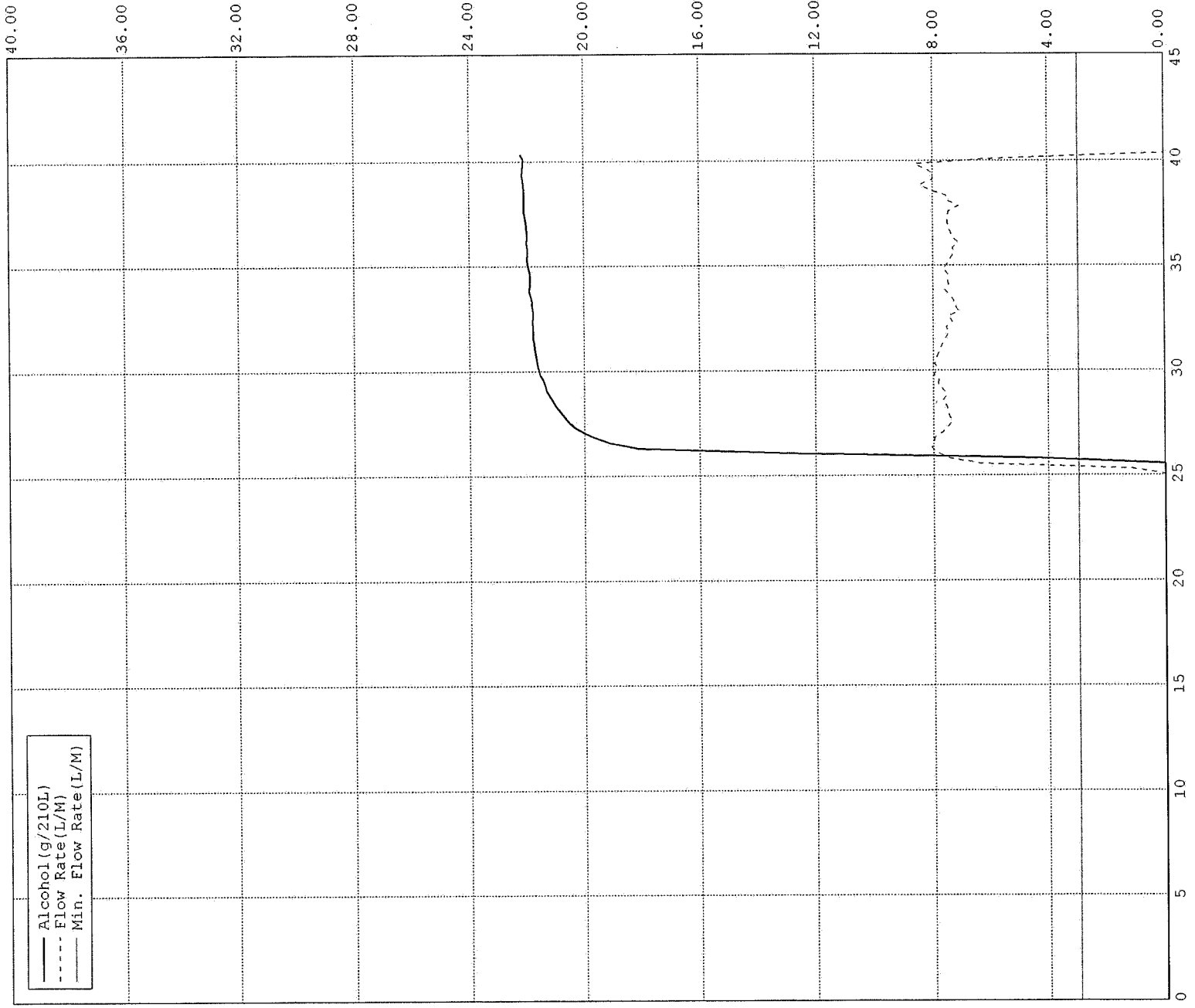
DIAGNOSTIC CHECK	PASSED	10:34
BLANK TEST	0.000	10:34
INTERNAL STANDARD	VERIFIED	10:34
Xq = 0.122 (0.66%)		
EXTERNAL STANDARD	0.079	10:34
X[1] = 0.0786 (-0.0009) (0.0006)		
BLANK TEST	0.000	10:35
SUBJECT SAMPLE	XXX	10:36
X[1] = 0.1117 (-0.0147) (0.0014)		

Interference Detected

Filter 2 average: -0.0011

Filter 3 average: 0.0007

DW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 07/15/2021
Time: 10:27:18

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

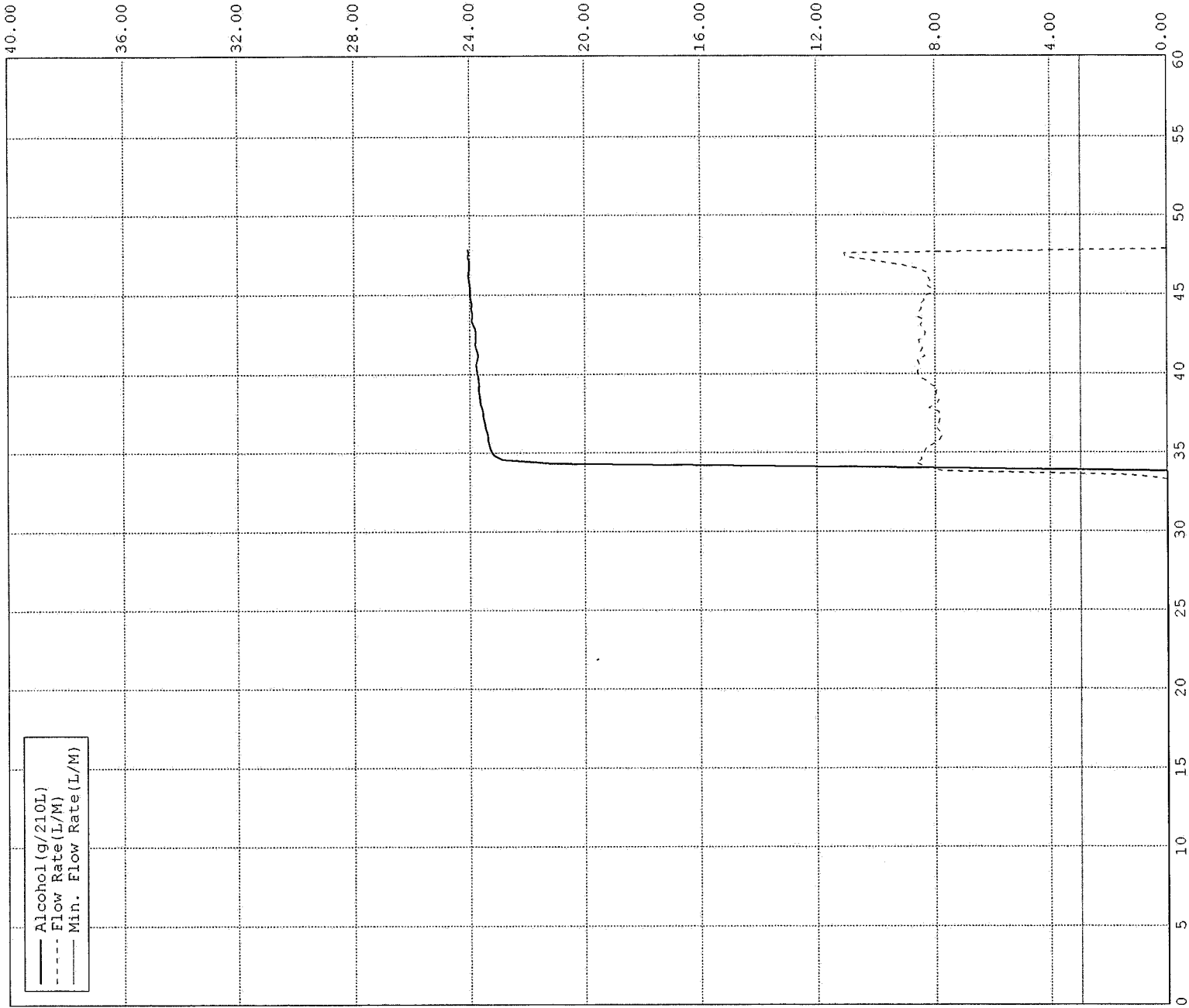
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 10:28
BLANK TEST 0.000 10:28
INTERNAL STANDARD VERIFIED 10:28
Xq = 0.123 (0.73%) 0.079 10:28
EXTERNAL STANDARD X[1] = 0.0787 (-0.0008) (0.0011)
BLANK TEST 0.000 10:29
SUBJECT SAMPLE XXX 10:30
X[1] = 0.1207 (-0.0279) (0.0001)

Interference Detected

DW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 07/15/2021
Time: 10:19:29

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

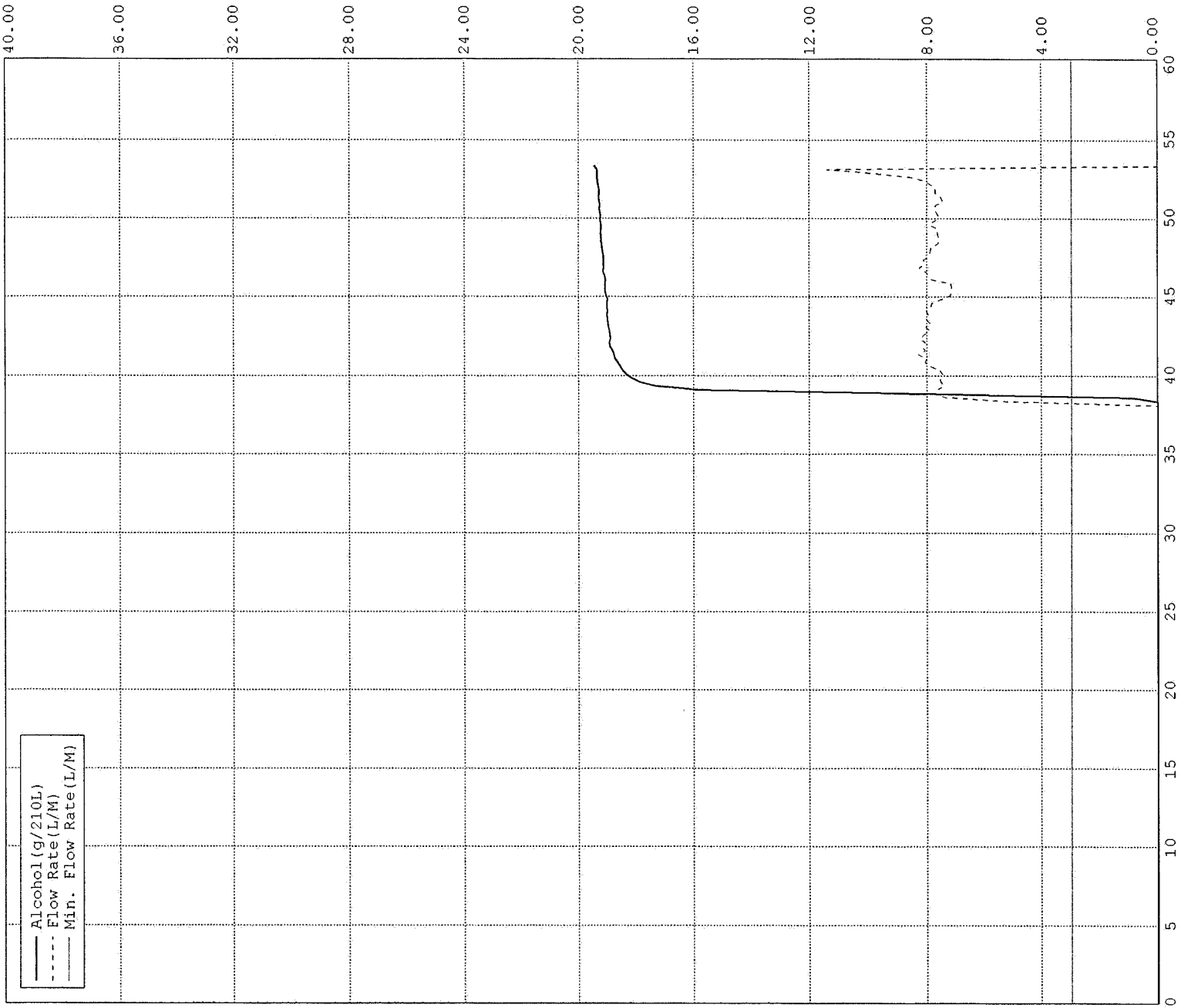
DEPT/AGENCY:
INTERFERENCE NEGATIVE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	10:20
BLANK TEST	0.000	10:20
INTERNAL STANDARD	VERIFIED	10:20
Xq = 0.122 (0.36%)		
EXTERNAL STANDARD	0.078	10:21
X[1] = 0.0780 (-0.0010) (0.0009)		
BLANK TEST	0.000	10:21
SUBJECT SAMPLE (Vol=1.97L)	0.098	10:22
X[1] = 0.0981 (0.0004) (-0.0004)		
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.077	10:24
X[1] = 0.0773 (-0.0016) (0.0001)		
BLANK TEST	0.000	10:24

DW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 07/15/2021
Time: 10:09:19

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

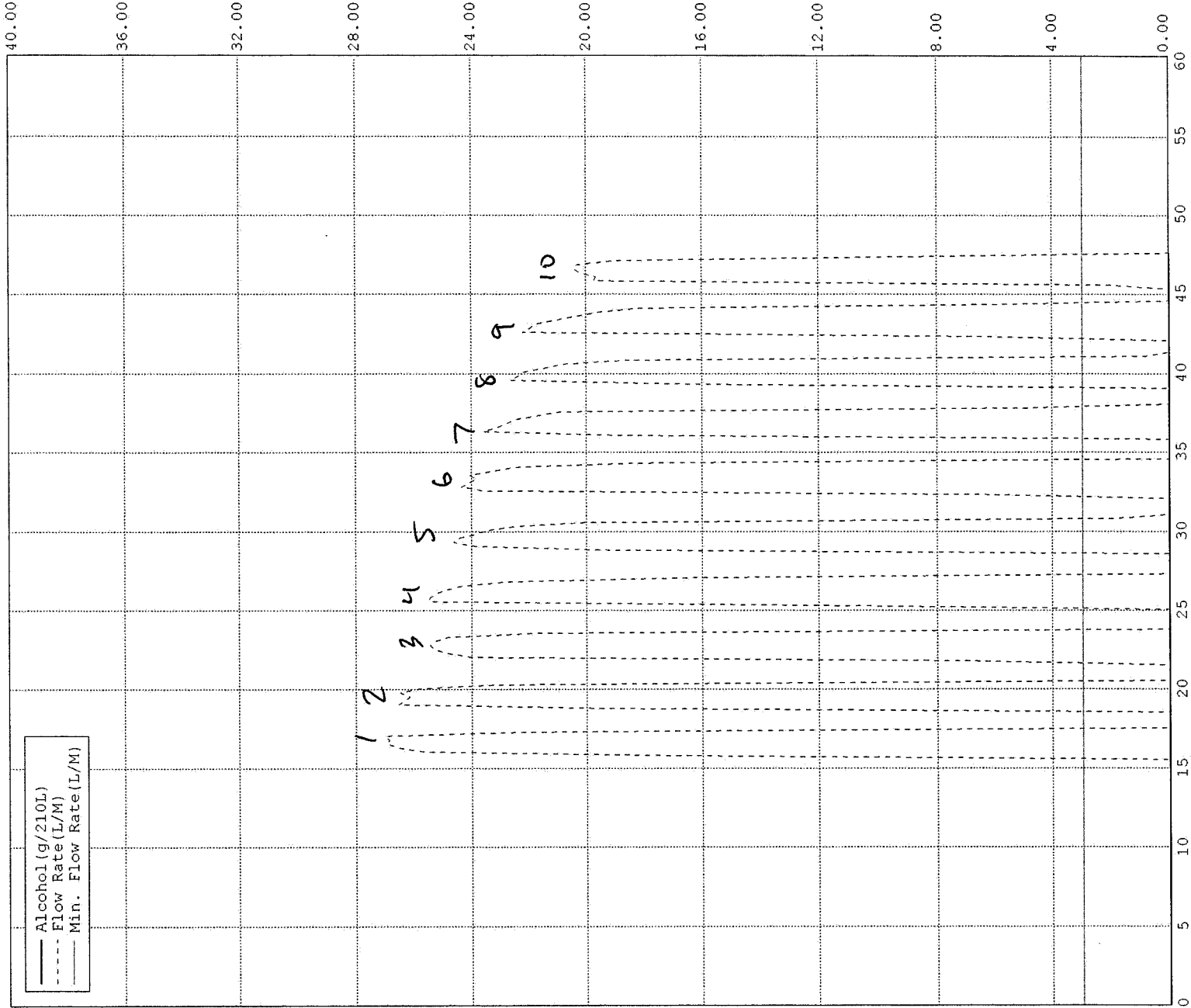
DEPT/AGENCY:
MAXIMUM ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.77: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 10:10
BLANK TEST 0.000 10:10
INTERNAL STANDARD VERIFIED 10:10
EXTERNAL STANDARD 0.078 10:10
BLANK TEST 0.000 10:11
SUBJECT SAMPLE XXX 10:12

Maximum Attempts Exceeded

Handwritten signature



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100351

Date: 07/15/2021
Time: 10:48:48

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

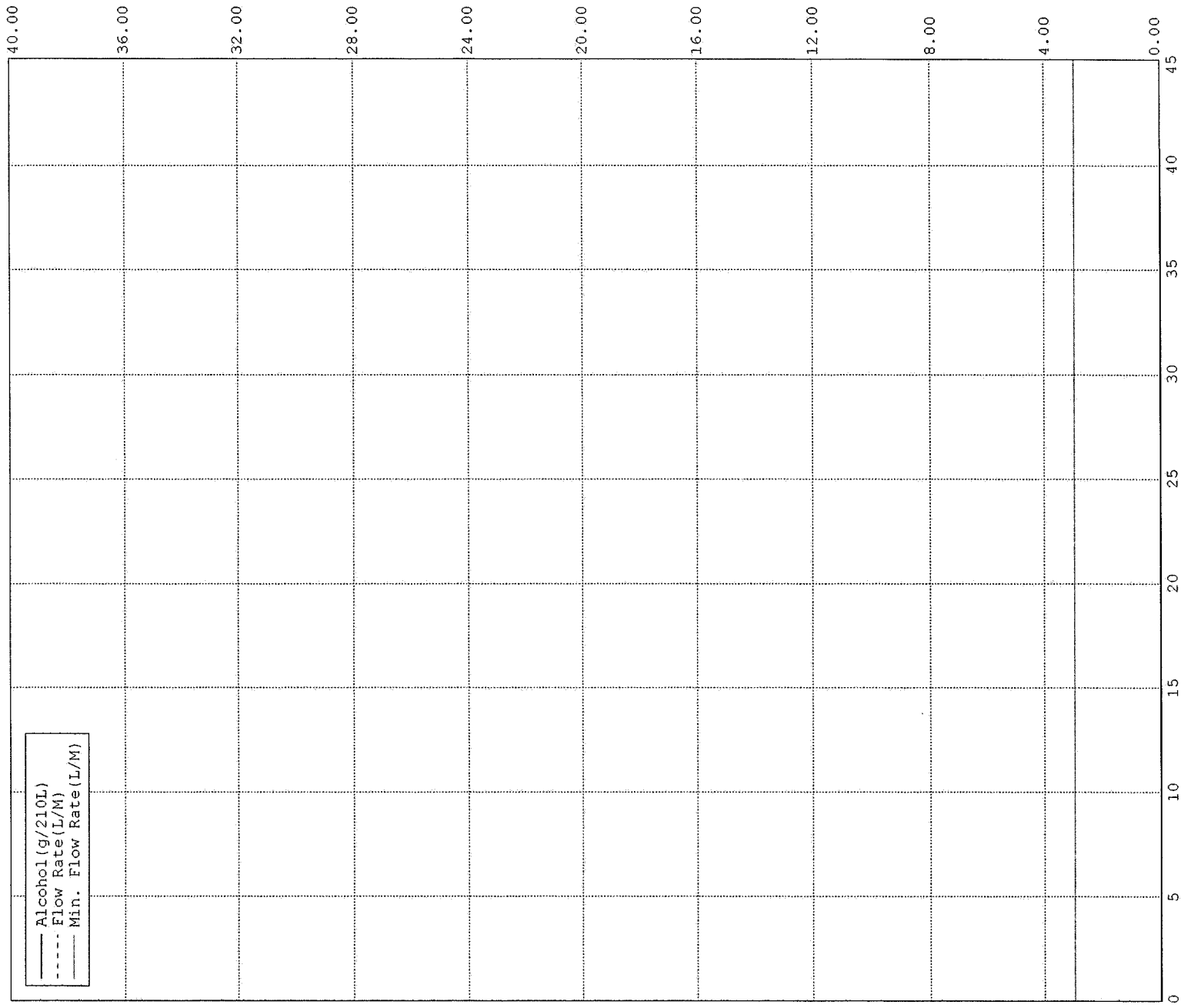
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 10:50
BLANK TEST 0.000 10:50
INTERNAL STANDARD VERIFIED 10:50
EXTERNAL STANDARD 0.078 10:50
BLANK TEST 0.000 10:51

RFI DETECTED

DW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100351

Date: 07/15/2021
Time: 11:04:53

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 #: AG018102
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	11:05
BLANK TEST	0.000	11:06
INTERNAL STANDARD	VERIFIED	11:06
EXTERNAL STANDARD	0.079	11:06
BLANK TEST	0.000	11:07
SUBJECT SAMPLE (Vol=2.89L)	0.000	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.079	11:09
BLANK TEST	0.000	11:10

DM

