

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 100689 Analyst Dereh 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 1.5 L (1.3L to 1.7L)

Linearity Test (attached)

Levels Used

- i. 0.020g/210L Mnf Airgas Lot AG928203 Exp 10/09/21
- 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 watn Lot 19200 Exp 08/06/21
Simulator S/N DR6267 Date Calibrated 11/17/20
- vi. 0.300g/210L Mnf watn Lot 19330 Exp 11/13/21
Simulator S/N DR4177 Date Calibrated 11/17/20

Functional Tests (attached)

- Incomplete Invalid
 Interference

- i. Acetone - Mnf watn Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N DR4178 Date Calibrated 11/18/20
- ii. Isopropanol - Mnf watn Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N DR4176 Date Calibrated 11/18/20
- iii. Negative Control - Mnf watn 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
- 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 07/15/21

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 07/14/2021
Time: 09:42:39

VERSIONS

DMT: 3.02
PIC: 3.07
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.1°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 43.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.65 V PASSED
(0.99 V - 2.31 V)
Cooler Voltage = 1.65 V PASSED
(0.99 V - 2.31 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 518 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.493 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 ✓

Xq = 0.086 0.60% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100689

Date: 07/14/2021
Time: 9:58 AM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 43.5°C

Current Barometer 29.8 in
Volume (Ltr) 1.52 ✓

Settings
Lamp: 1.65 V
Bias: 80 V
Cooler: 1.61 V
Chopper: 523 Hz

Voltages (V)
Flow: 0.99 V
Detector: -0.042 V ✓

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 06/14/2021
Time: 09:59:00

OPERATOR NAME:
ST LOUIS INTOX A TECH
CERTIFICATE #: 0U8112

Ca = 0.1050
CAL = 0.994709 0.800 <= CAL < 1.200
b1 = 0.0012 0.0000 <= b1 < 0.0040
b2 = 0.0080 0.0010 <= b2 < 0.0100
b3 = 0.0010 0.0000 <= b3 < 0.0040
Xq = 0.0868 0.0500 <= Xq < 0.2000
a21 = 1.215718 1.050 <= a21 < 1.300
a31 = 0.526686 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 07/14/2021
Time: 10:00:29

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

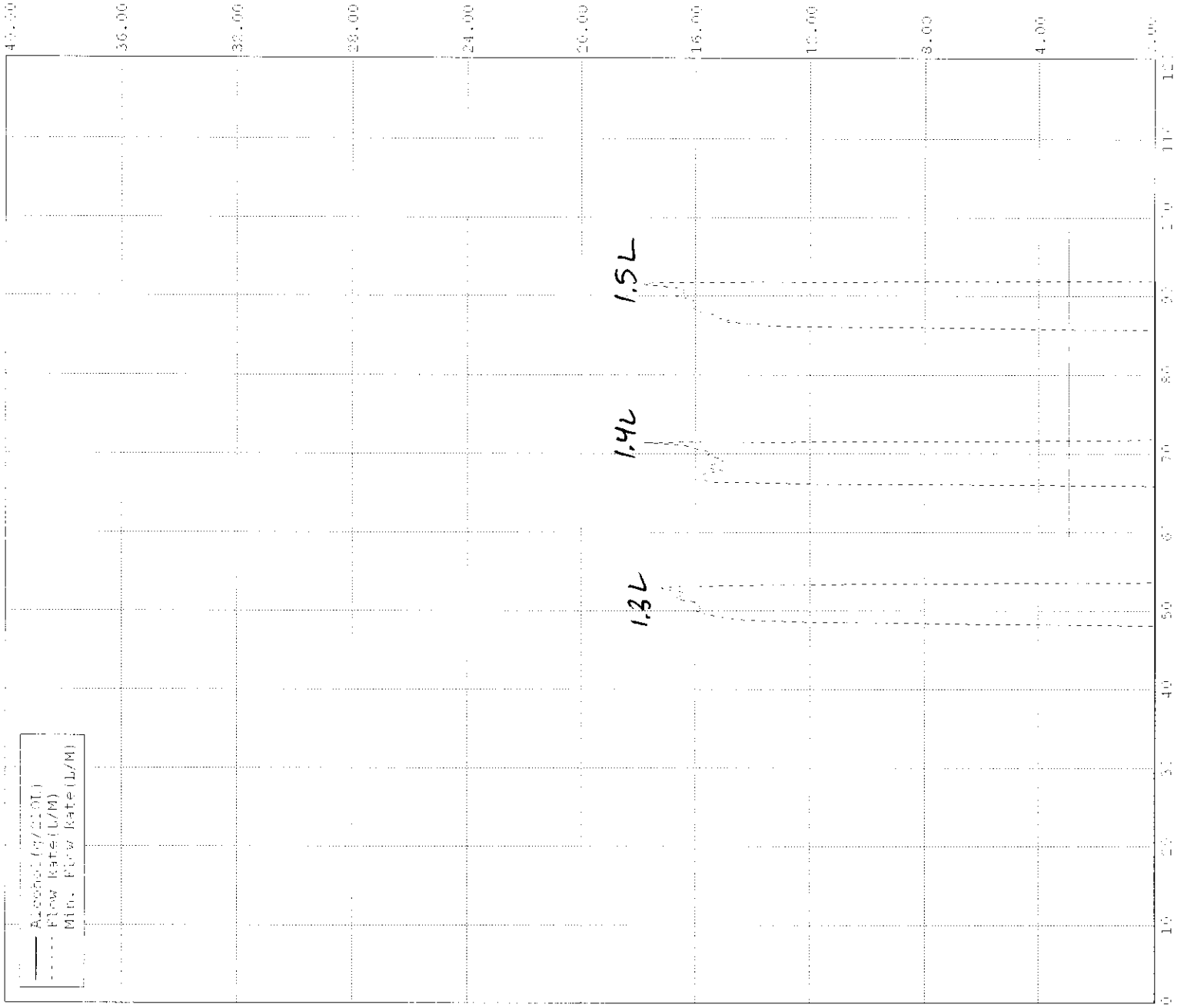
DEPT/AGENCY:
MINIMUM VOLUME
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK	PASSED	10:01
BLANK TEST	0.000	10:01
INTERNAL STANDARD	VERIFIED	10:01
EXTERNAL STANDARD	0.079	10:01
BLANK TEST	0.000	10:02
SUBJECT SAMPLE (Vol=1.56L)	0.000	10:04
BLANK TEST	0.000	10:05
EXTERNAL STANDARD	0.079	10:05
BLANK TEST	0.000	10:06

DW



LINEARITY CHECK

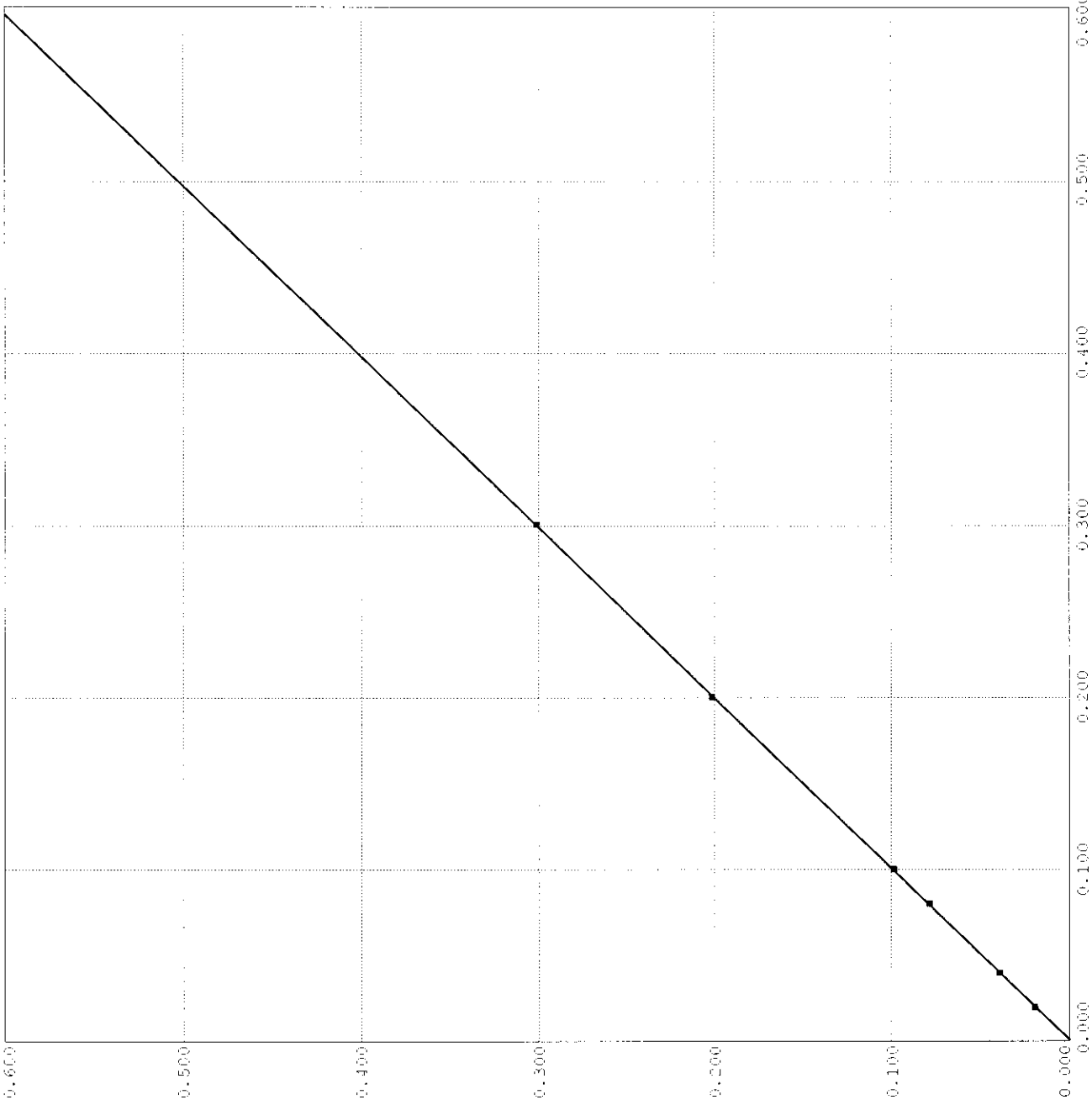
Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 07/14/2021
Time: 10:13:51

SUPERVISOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

TARGET	AVERAGE	STD. DEV.
0.020	0.0202	0.0004
0.040	0.0400	0.0000
0.080	0.0794	0.0005
0.100	0.0996	0.0005
0.200	0.2022	0.0008
0.300	0.3020	0.0012

SLOPE = 1.009393
R² = 0.999958



DW

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100689

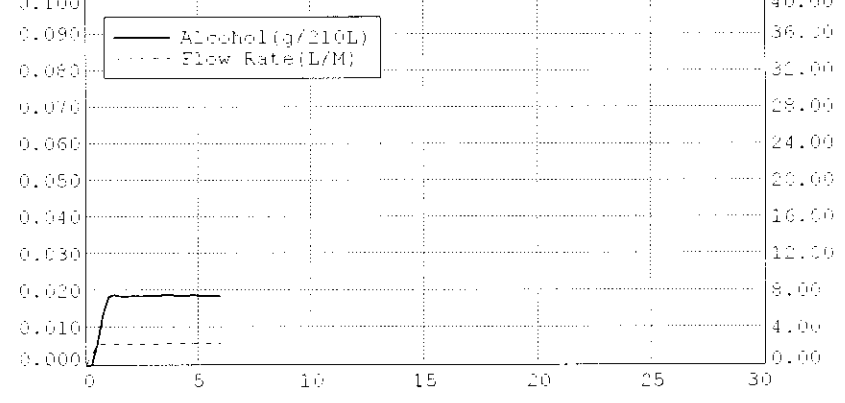
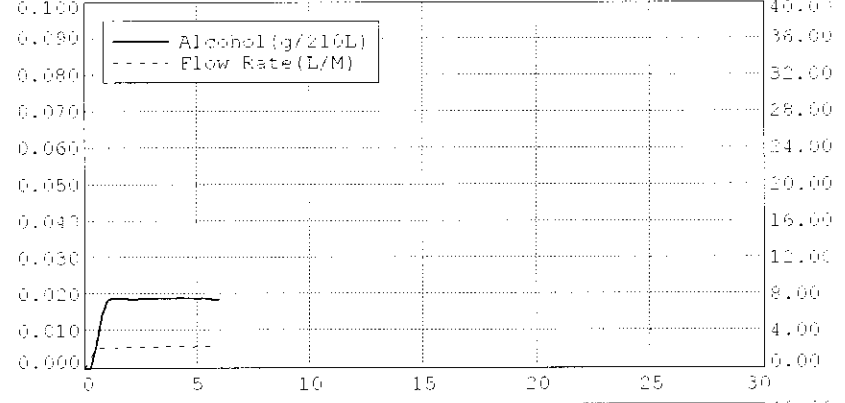
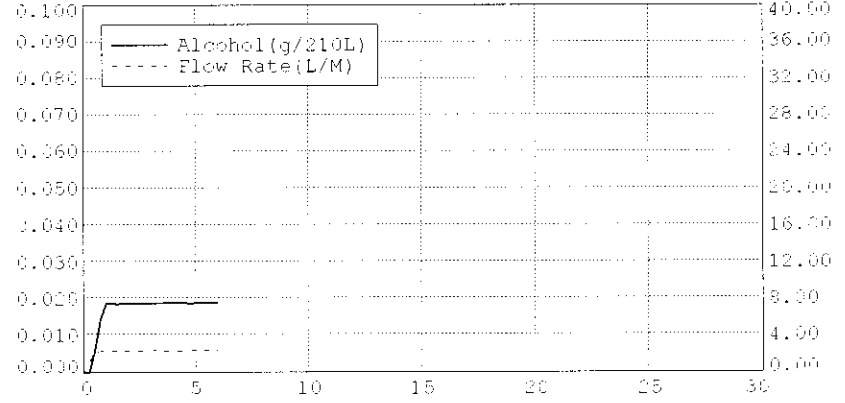
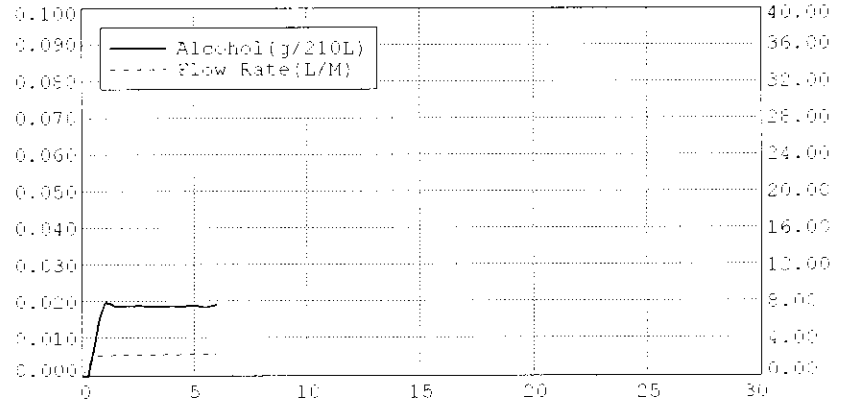
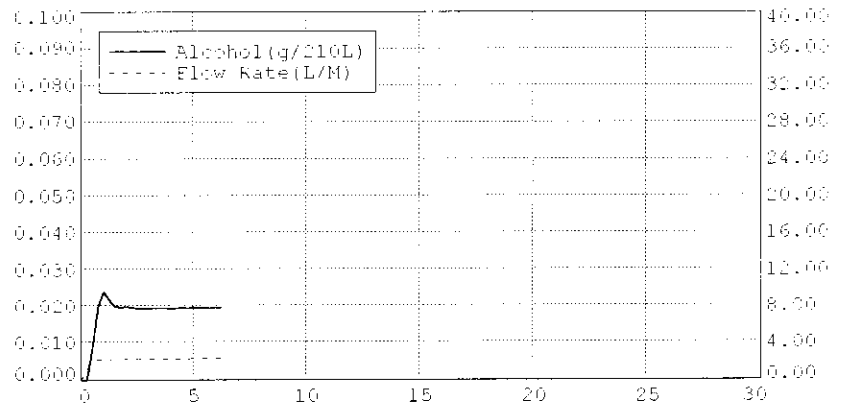
Date: 07/14/2021
 Time: 10:13:53

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.78: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 443 psi

BLANK TEST	0.000	10:15
INTERNAL STANDARD	VERIFIED	10:15
EXTERNAL STANDARD	0.021	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.020	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.020	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.020	10:18
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.020	10:19
BLANK TEST	0.000	10:20

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100689

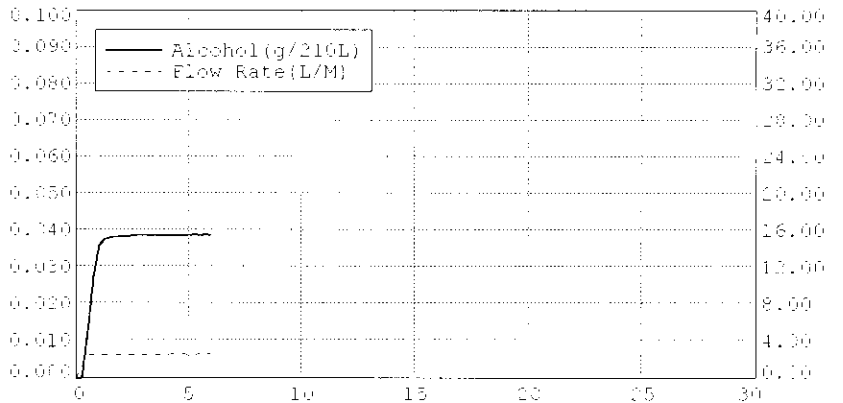
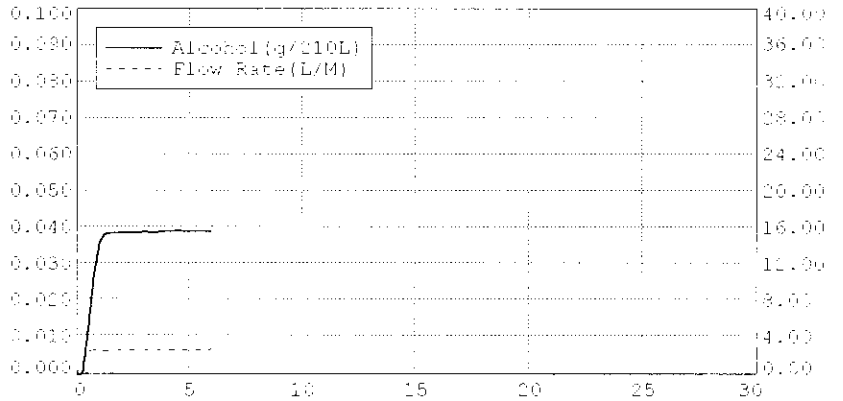
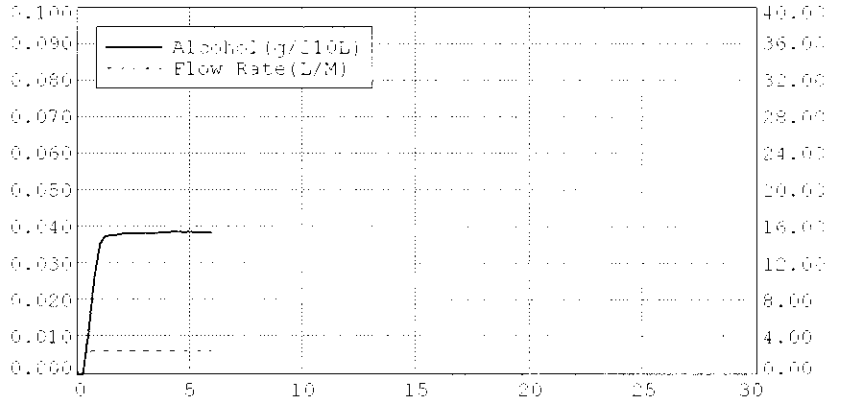
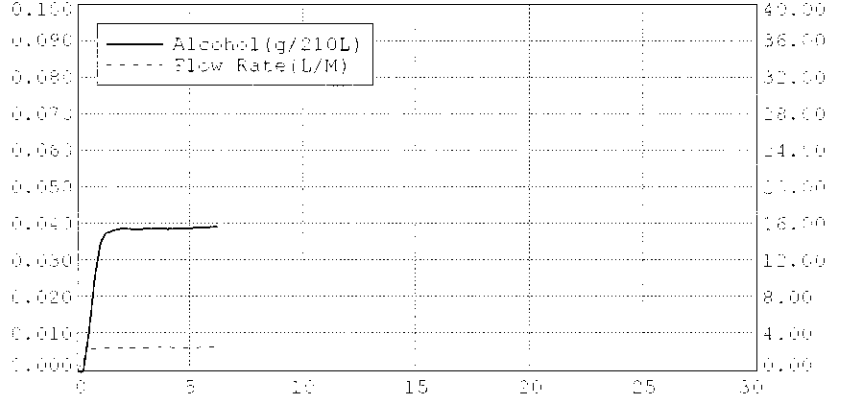
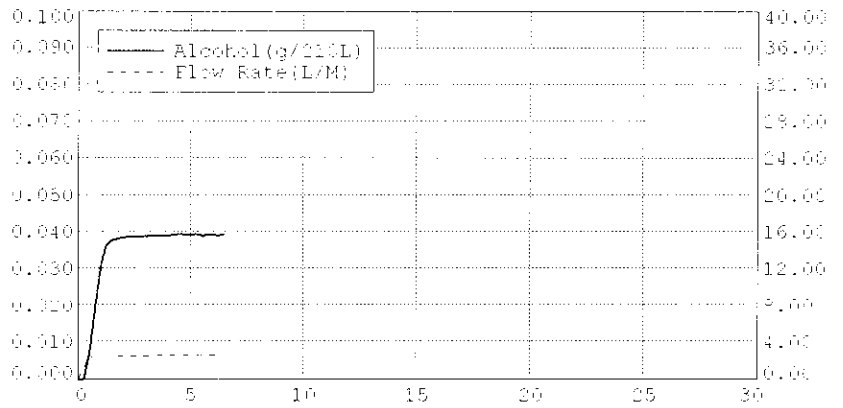
Date: 07/14/2021
 Time: 10:22:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.79: 0.040
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 979 psi

BLANK TEST	0.000	10:23
INTERNAL STANDARD	VERIFIED	10:23
EXTERNAL STANDARD	0.040	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.040	10:24
BLANK TEST	0.000	10:25
EXTERNAL STANDARD	0.040	10:26
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.040	10:27
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.040	10:28
BLANK TEST	0.000	10:29

Average = 0.0400
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100689

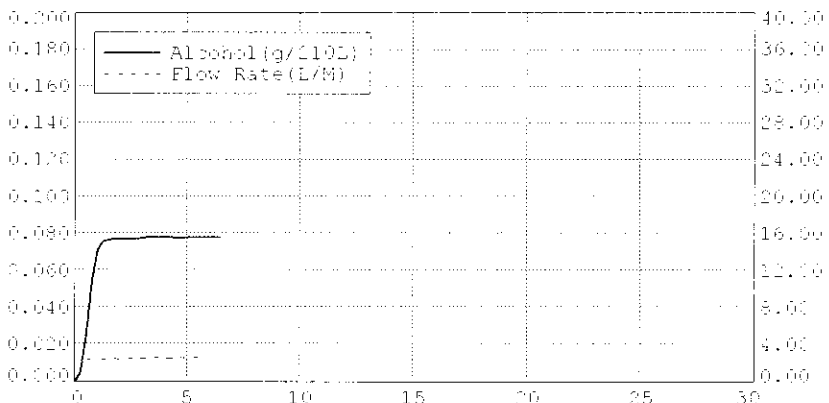
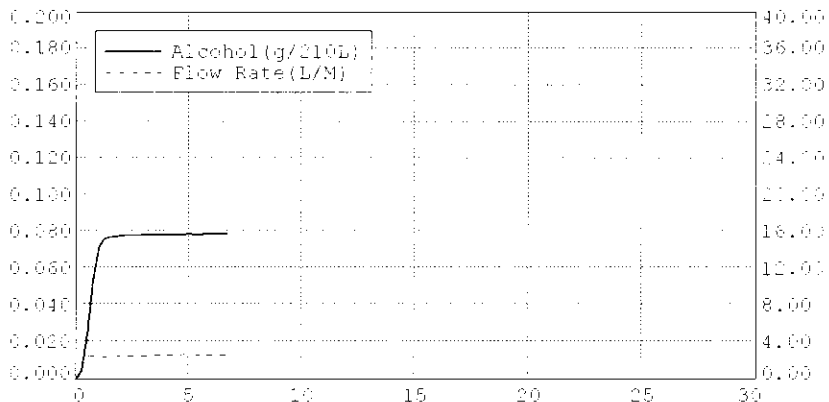
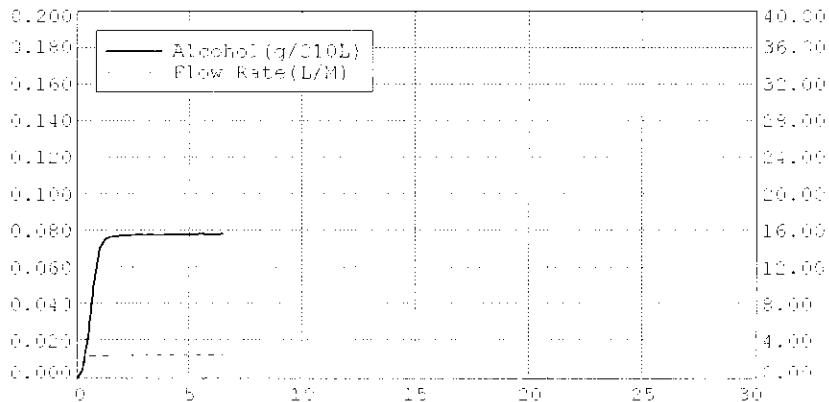
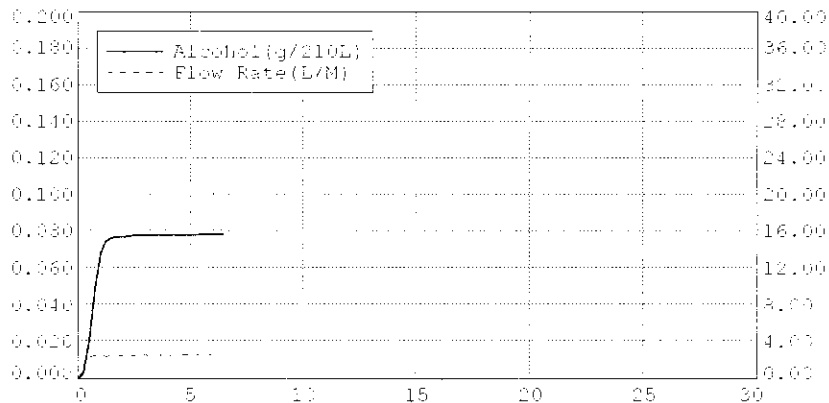
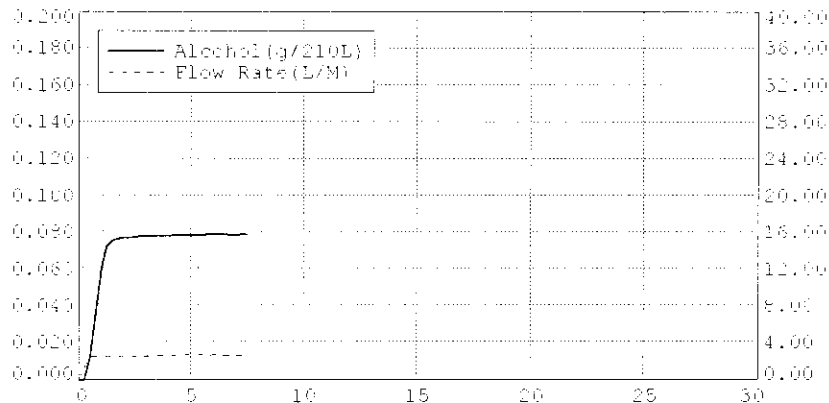
Date: 07/14/2021
 Time: 10:30:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.79: 0.080
 LOT #: AG018102
 EXPIRATION: 06/29/2022
 TANK PRESSURE: 1160 psi

BLANK TEST	0.000	10:31
INTERNAL STANDARD	VERIFIED	10:31
EXTERNAL STANDARD	0.079	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.079	10:33
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.080	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.080	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.079	10:36
BLANK TEST	0.000	10:37

Average = 0.0794
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100689

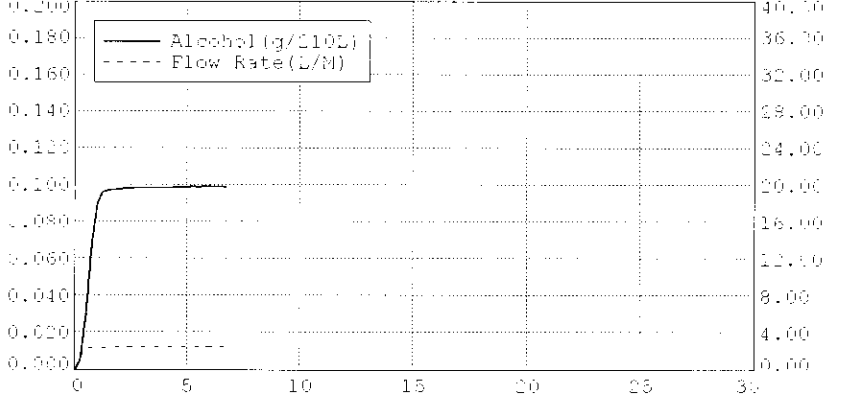
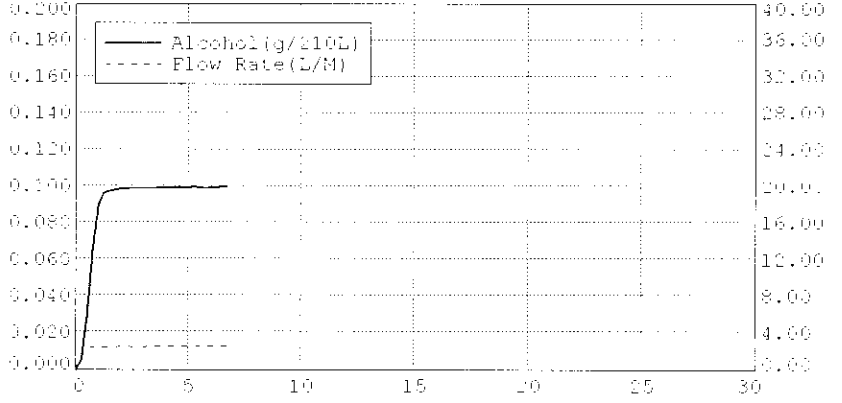
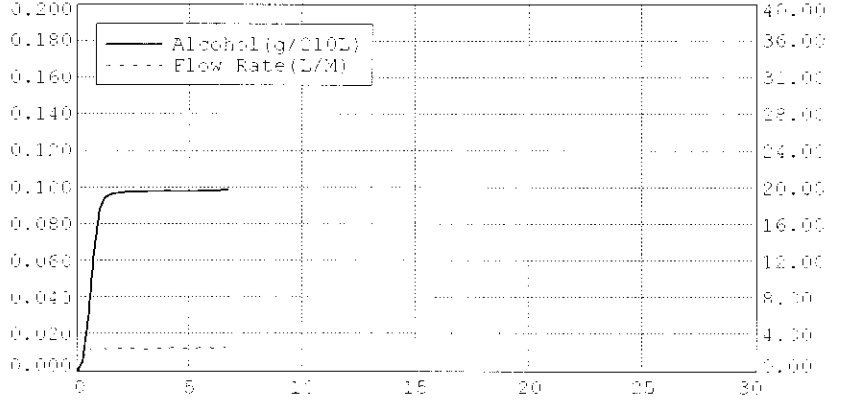
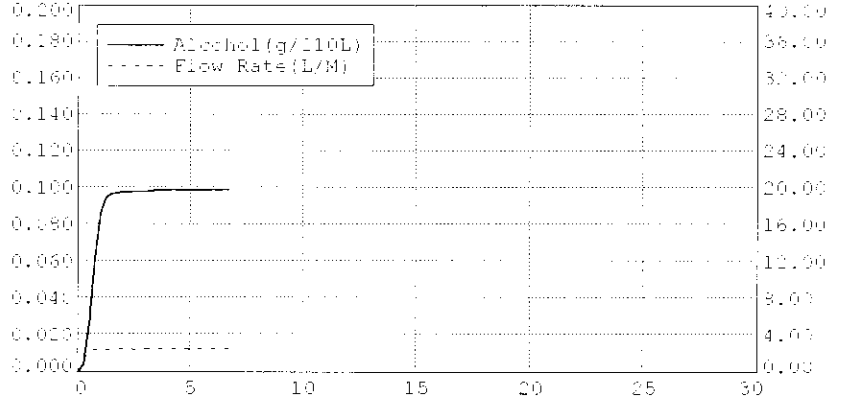
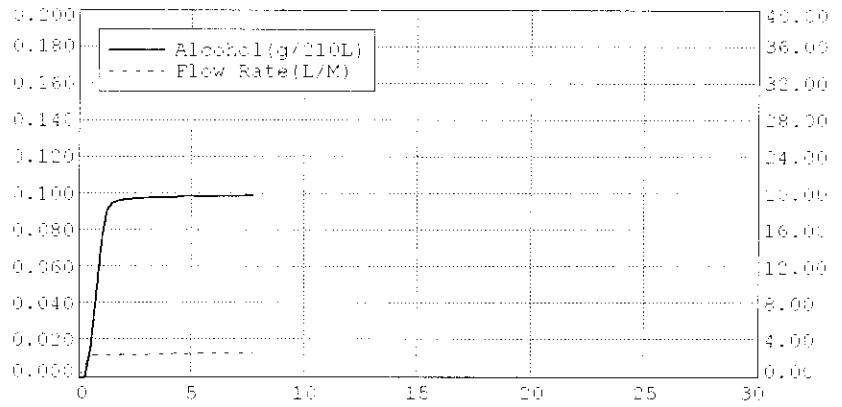
Date: 07/14/2021
 Time: 10:50:49

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.78: 0.100
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 1016 psi

BLANK TEST	0.000	10:52
INTERNAL STANDARD	VERIFIED	10:52
EXTERNAL STANDARD	0.100	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.099	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.099	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.100	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.100	10:57
BLANK TEST	0.000	10:57

Average = 0.0996
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

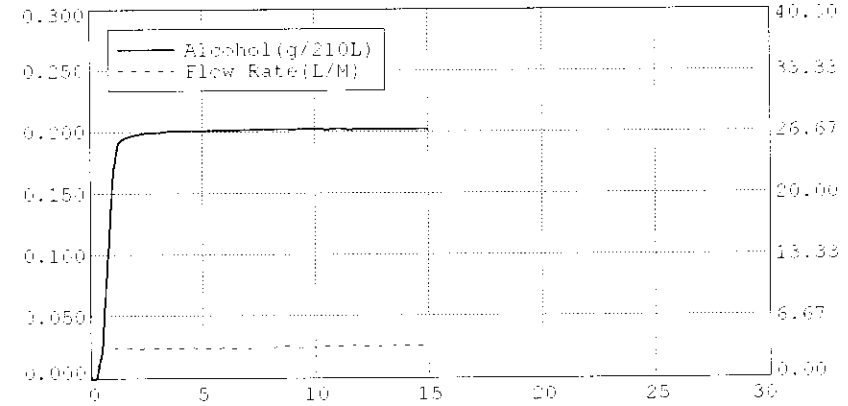
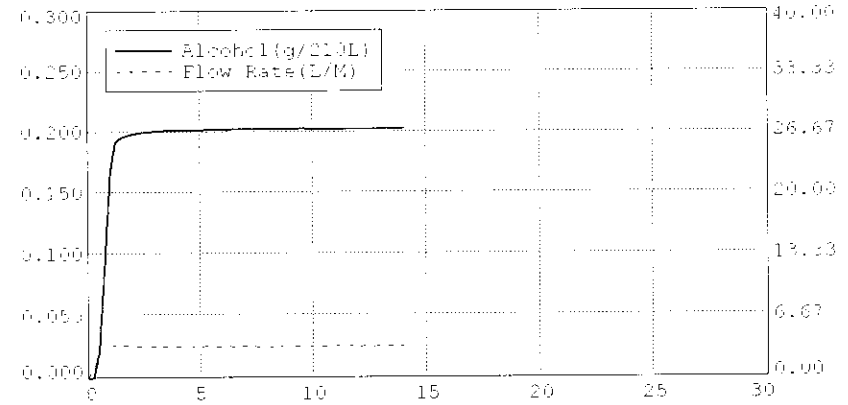
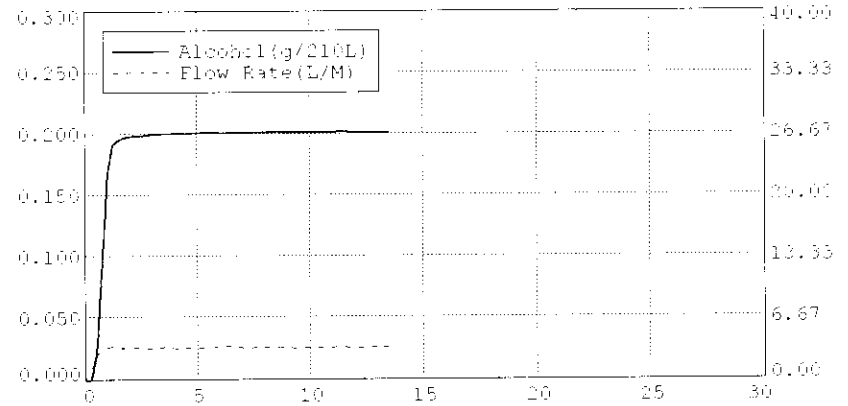
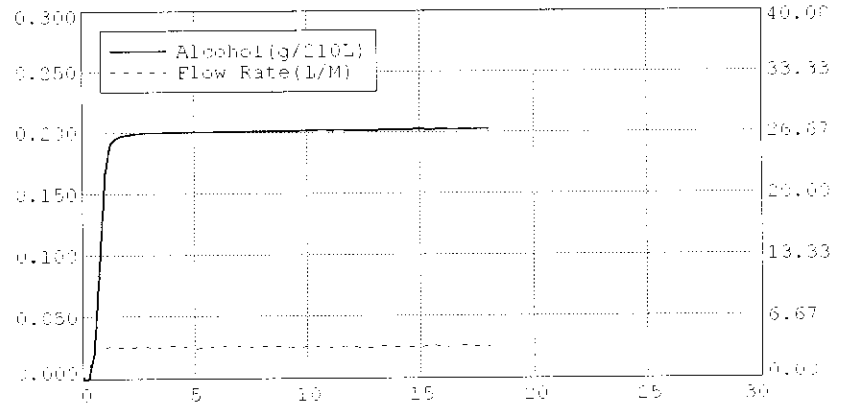
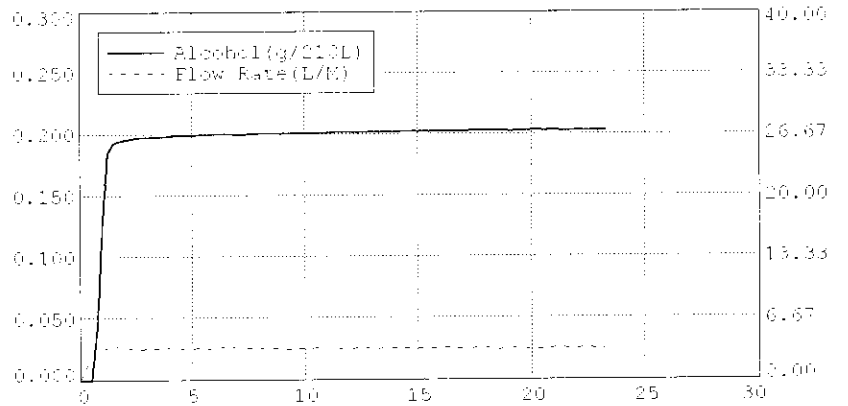
Alaska Department of Public Safety
 DATAMASTER dmt: 100689

Date: 07/14/2021
 Time: 11:01:20

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

BLANK TEST	0.000	11:02
INTERNAL STANDARD	VERIFIED	11:03
EXTERNAL STANDARD	0.203	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.203	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.201	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.202	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.202	11:08
BLANK TEST	0.000	11:09

Average = 0.2022
 Std Dev = 0.0008



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100689

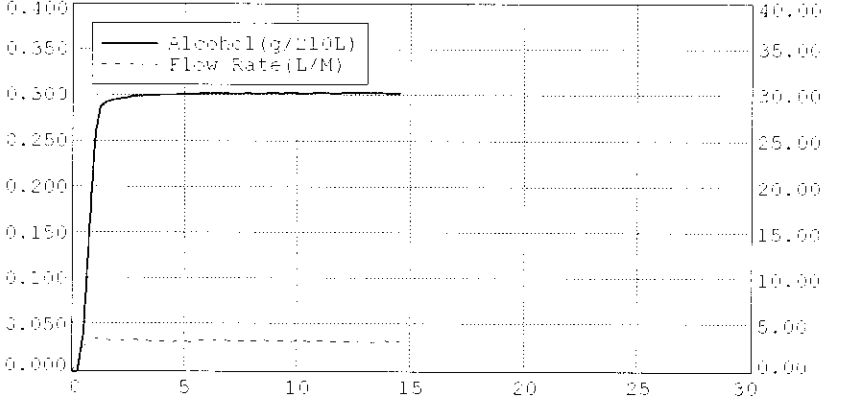
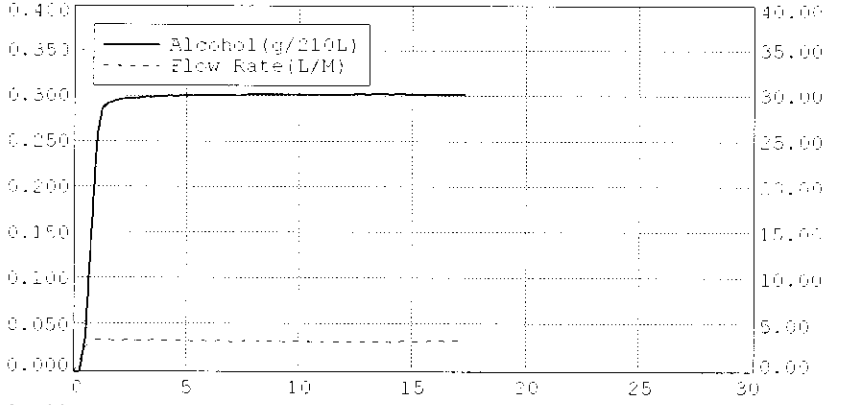
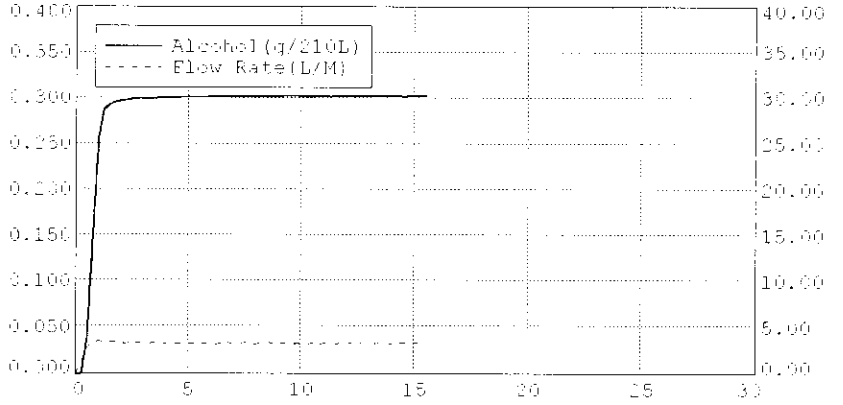
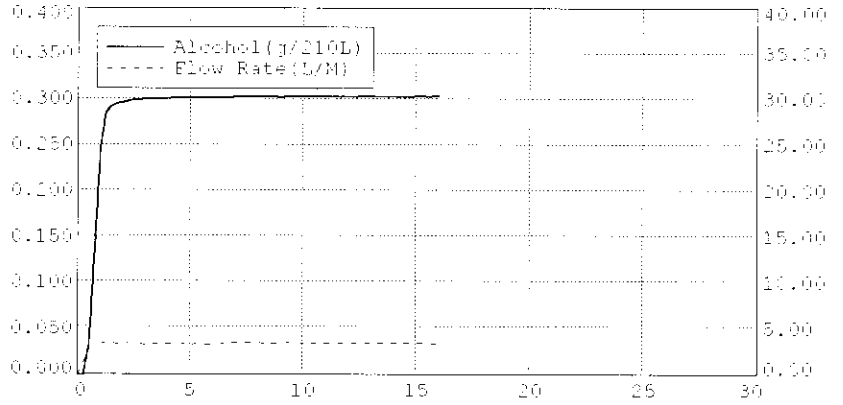
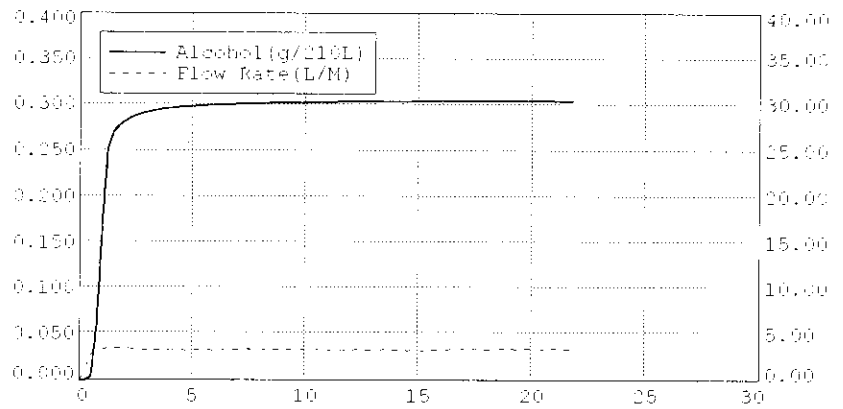
Date: 07/14/2021
 Time: 11:12:52

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:13
INTERNAL STANDARD	VERIFIED	11:14
EXTERNAL STANDARD	0.304	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.302	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.302	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.301	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.301	11:19
BLANK TEST	0.000	11:20

Average = 0.3020
 Std Dev = 0.0012



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 07/14/2021
Time: 11:35:13

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

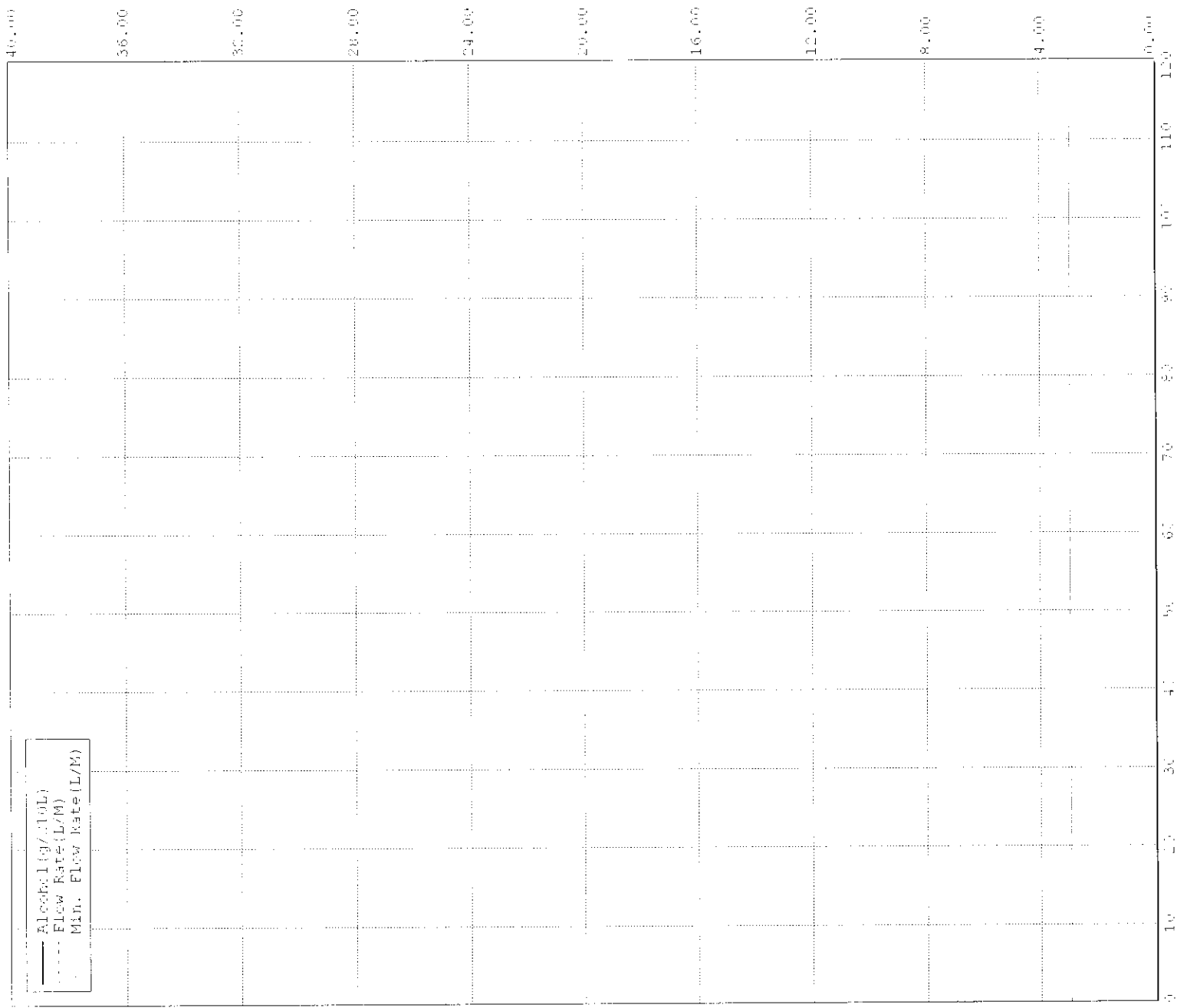
OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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 PASSED 11:36
BLANK TEST 0.000 11:36
INTERNAL STANDARD VERIFIED 11:36
EXTERNAL STANDARD 0.079 11:37
BLANK TEST 0.000 11:38
SUBJECT SAMPLE INCOMPLETE 11:40



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 07/15/2021
Time: 10:40:09

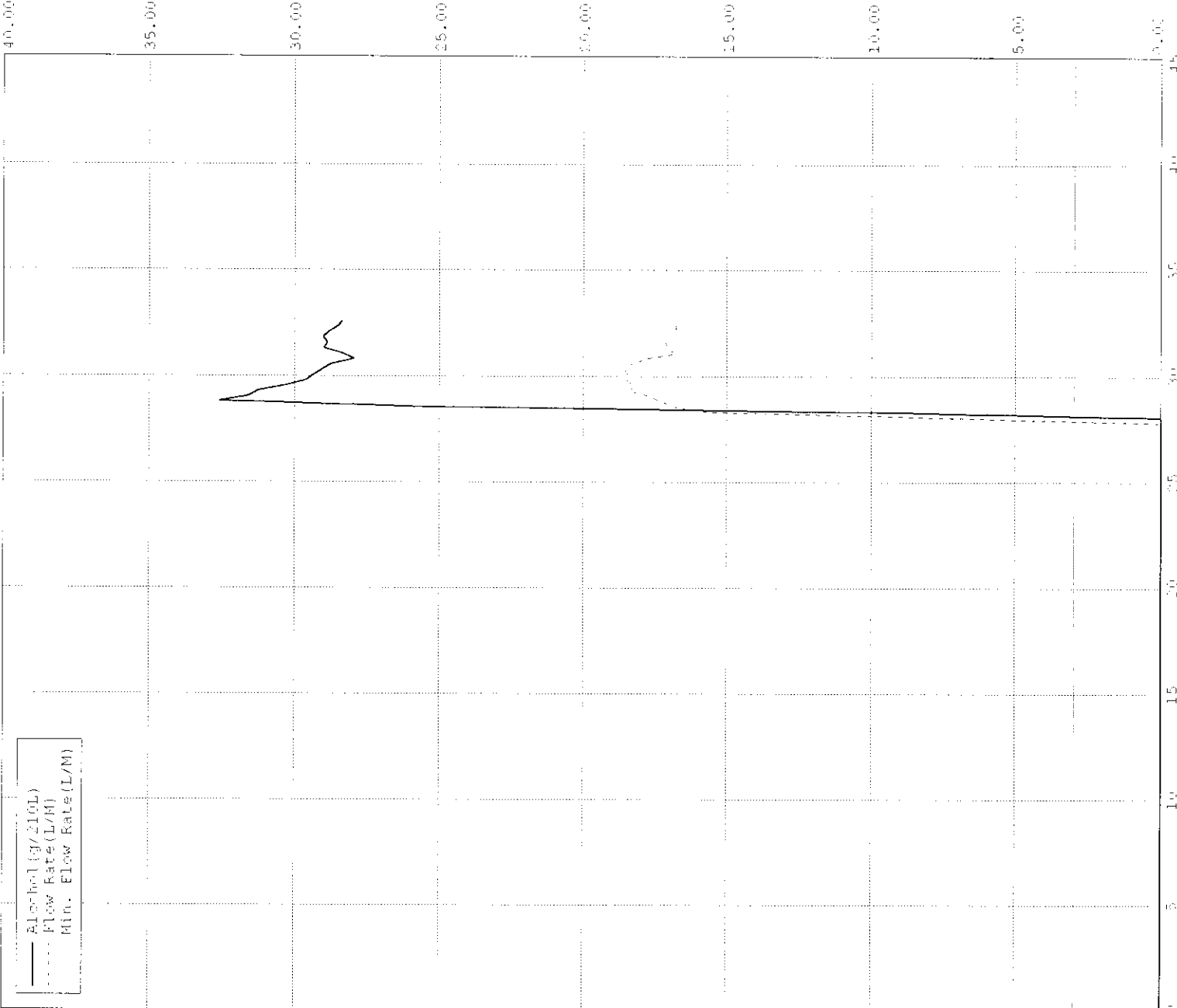
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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
BLANK TEST PASSED 10:43
INTERNAL STANDARD VERIFIED 10:44
EXTERNAL STANDARD 0.080 10:44
BLANK TEST 0.000 10:45
SUBJECT SAMPLE INVALID 10:46



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100689

Date: 07/15/2021

Time: 10:18:37

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 10:19

BLANK TEST

0.000 10:19

INTERNAL STANDARD

VERIFIED 10:19

Xq = 0.086 (0.80%)

EXTERNAL STANDARD

0.079 10:20

X[1] = 0.0790 (-0.0007) (0.0003)

BLANK TEST

0.000 10:21

SUBJECT SAMPLE

XXX 10:21

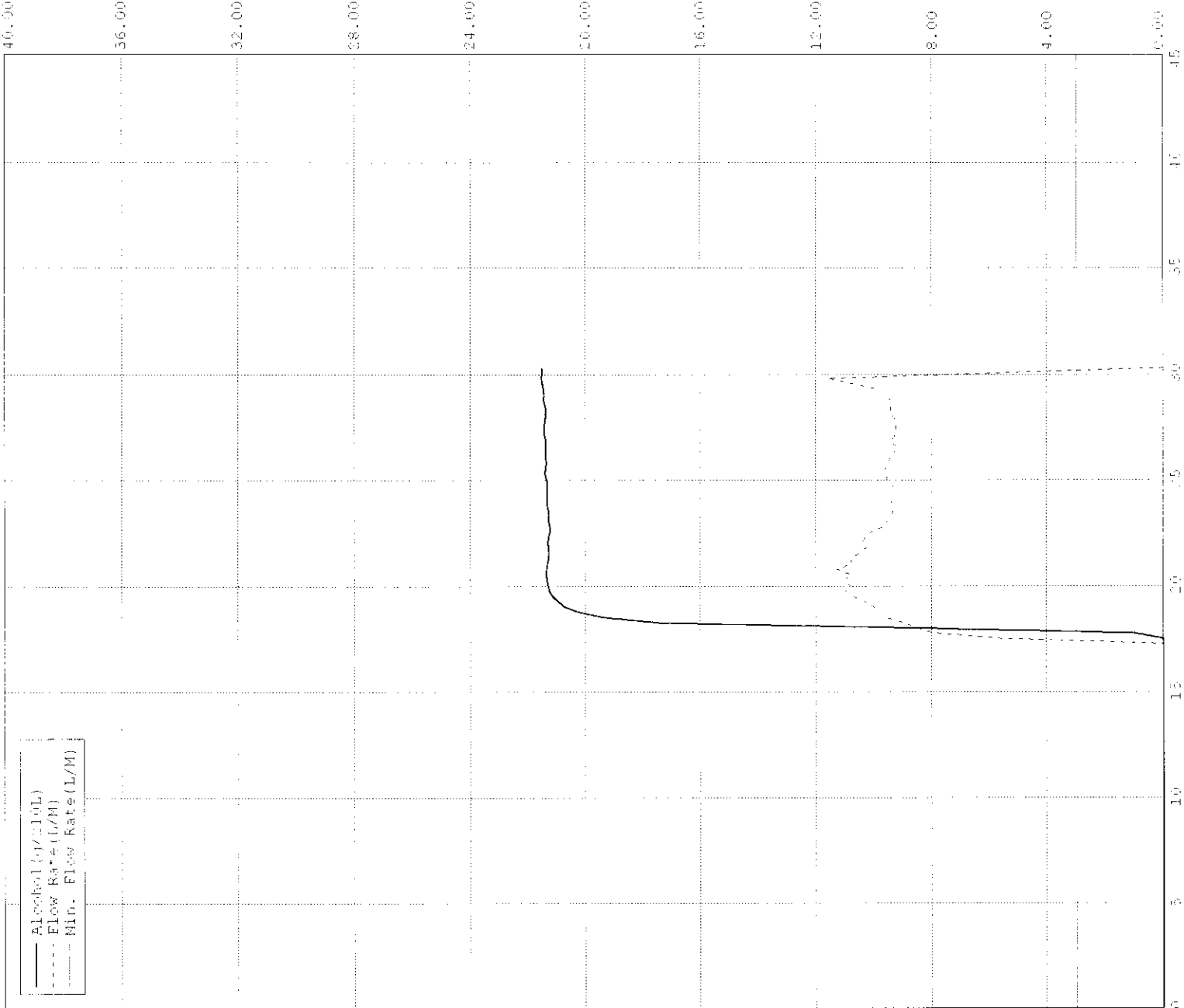
X[1] = 0.1083 (-0.0169) (-0.0006)

Interference Detected

Filter 2 average: -0.0005

Filter 3 average: 0.0007

DW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 07/15/2021
Time: 10:11:57

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

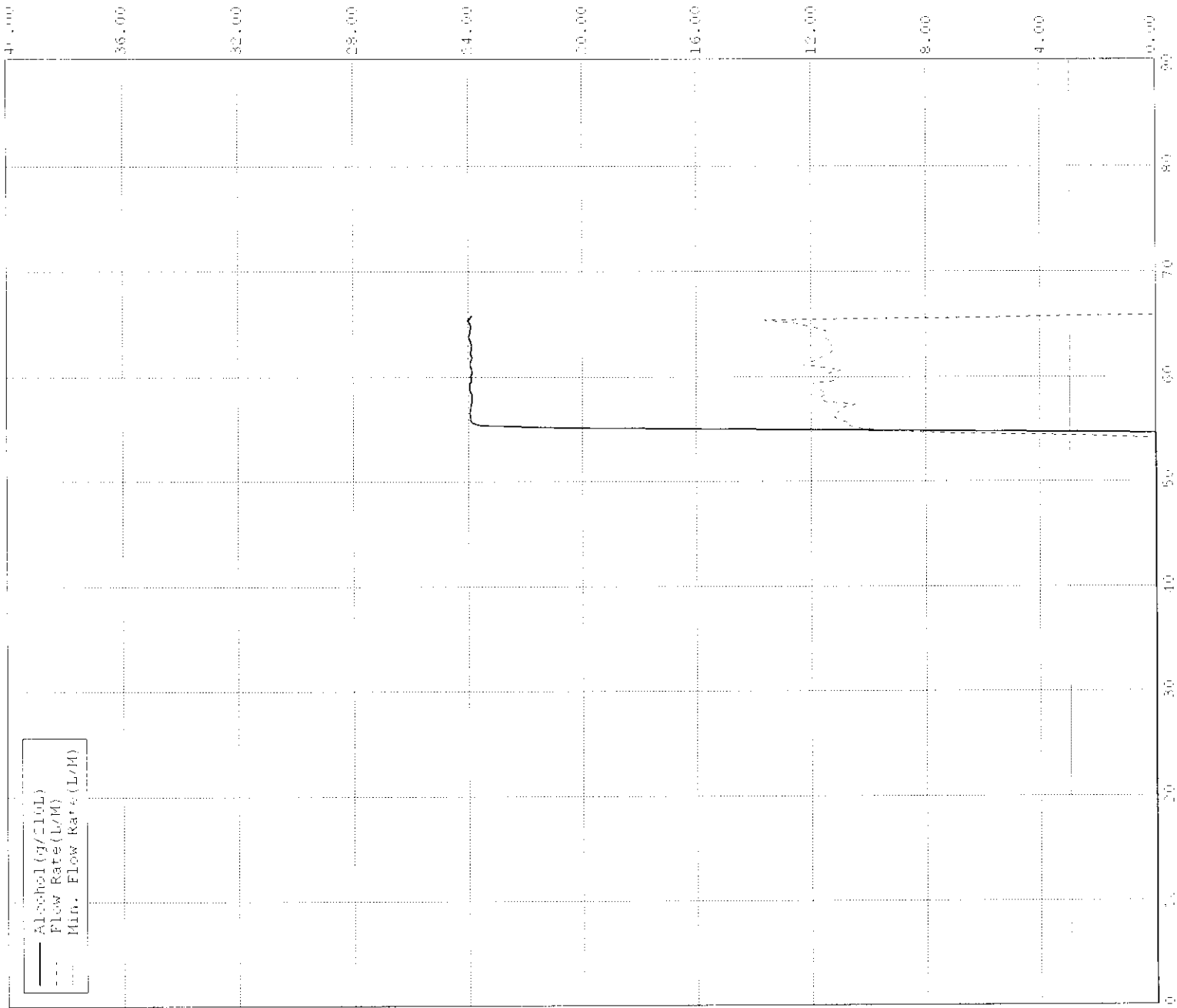
EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK PASSED 10:13
BLANK TEST 0.000 10:13
INTERNAL STANDARD VERIFIED 10:13
Xg = 0.086 (0.80%)
EXTERNAL STANDARD 0.079 10:13
X[1] = 0.0793 (0.0000) (0.0012)
BLANK TEST 0.000 10:14
SUBJECT SAMPLE XXX 10:15
X[1] = 0.1199 (-0.0318) (-0.0005)

Interference Detected

DMW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 07/15/2021
Time: 10:26:08

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

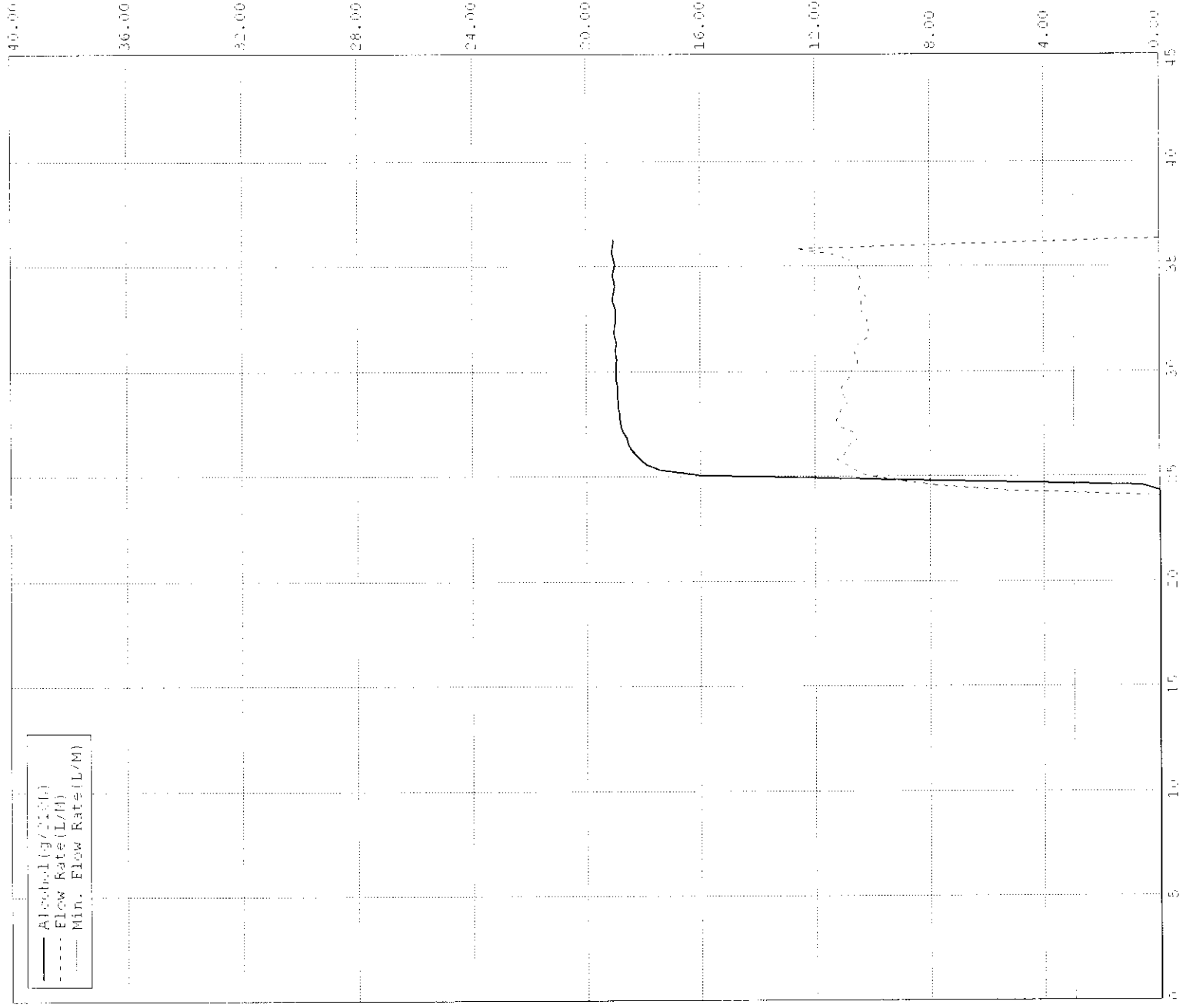
DEPT/AGENCY:
INTERFERENCE NEGATIVE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK	PASSED	10:27
BLANK TEST	0.000	10:27
INTERNAL STANDARD	VERIFIED	10:27
$X_q = 0.086$ (0.40%)		
EXTERNAL STANDARD	0.079	10:27
$X[1] = 0.0792$ (-0.0005)	(0.0009)	
BLANK TEST	0.000	10:28
SUBJECT SAMPLE (Vol=2.09L)	0.095	10:29
$X[1] = 0.0958$ (0.0010)	(-0.0002)	
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.078	10:30
$X[1] = 0.0784$ (-0.0007)	(0.0004)	
BLANK TEST	0.000	10:31

DW



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 07/14/2021
Time: 11:48:06

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

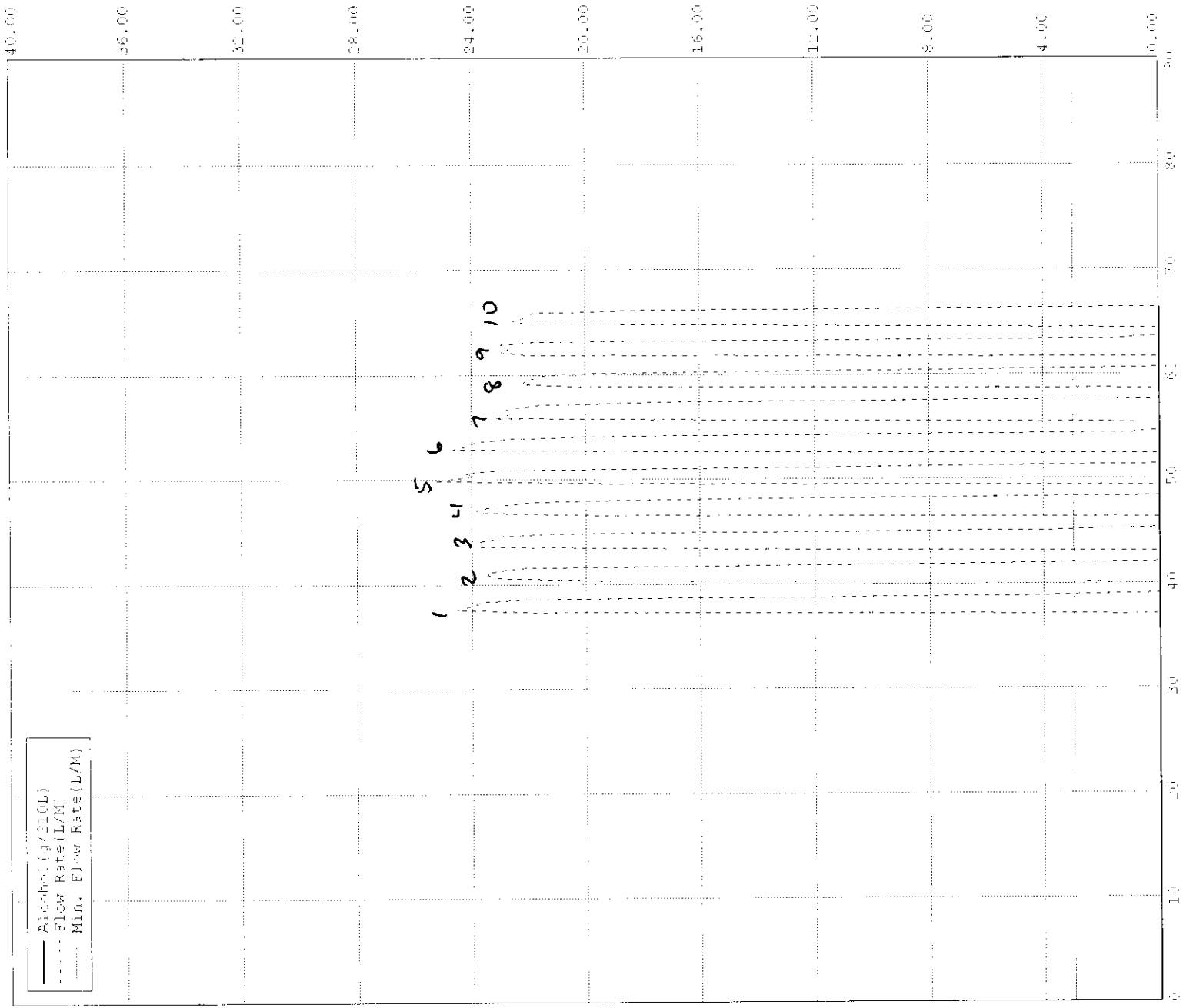
DEPT/AGENCY:
MAXIMUM ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK PASSED 11:49
BLANK TEST 0.000 11:49
INTERNAL STANDARD VERIFIED 11:49
EXTERNAL STANDARD 0.080 11:49
BLANK TEST 0.000 11:50
SUBJECT SAMPLE XXX 11:51

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 07/15/2021
Time: 10:49:11

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
DEREK WALTON
OPERATOR'S #: 9508

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

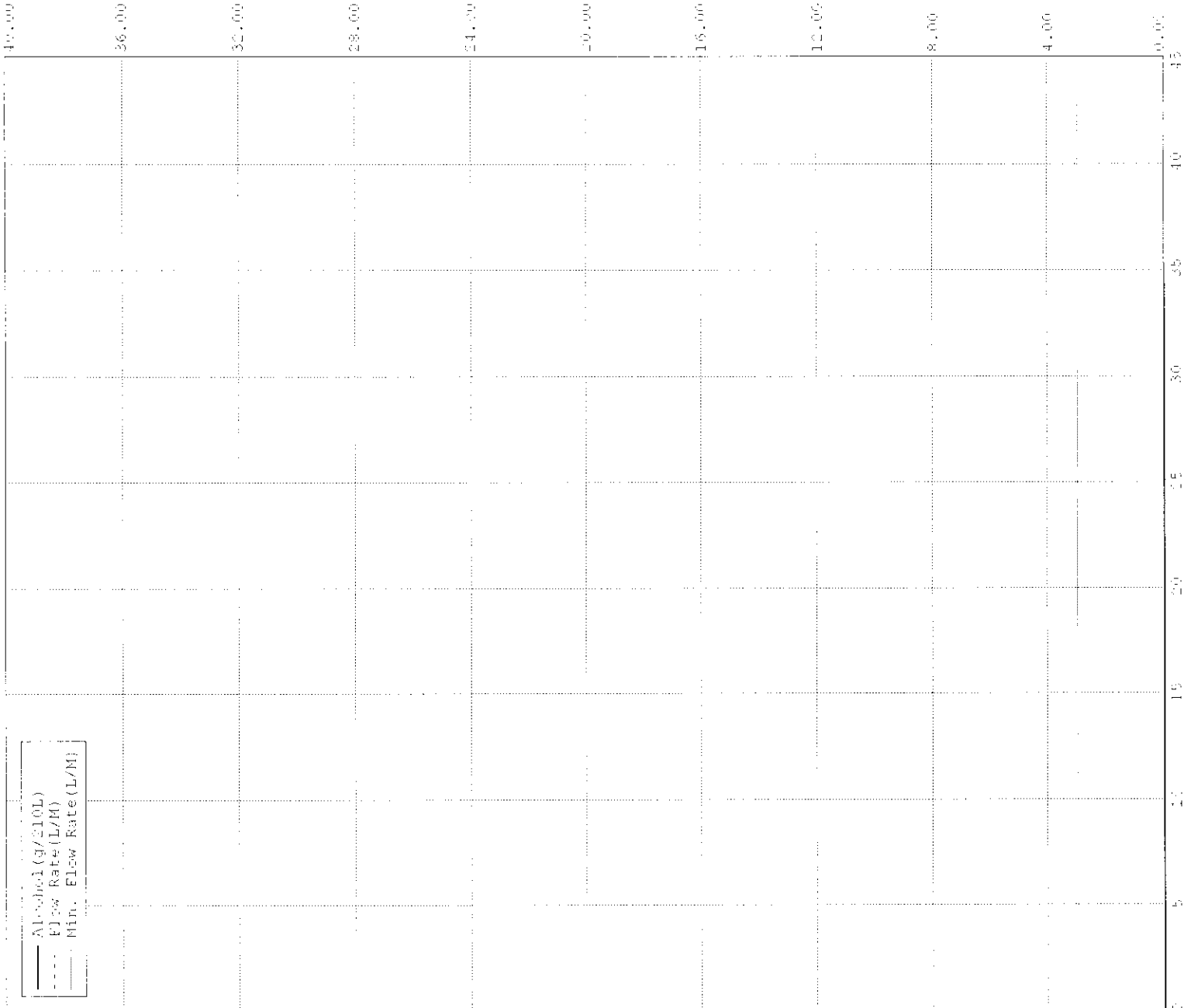
EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK PASSED 10:50
BLANK TEST 0.000 10:51
INTERNAL STANDARD VERIFIED 10:51
EXTERNAL STANDARD 0.079 10:51
BLANK TEST 0.000 10:52

RFI DETECTED

MSE



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100689

Date: 07/15/2021
Time: 11:08:31

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	11:09
BLANK TEST	0.000	11:09
INTERNAL STANDARD	VERIFIED	11:09
EXTERNAL STANDARD	0.079	11:09
BLANK TEST	0.000	11:10
SUBJECT SAMPLE (Vol=2.81L)	0.000	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.080	11:12
BLANK TEST	0.000	11:13

DW

