

Alaska Scientific Crime Detection Laboratory

Supervising Analyst Carlie Glaister CKG 07/15/2022

DataMaster Certification Form

Effective: 11/10/2021

Supervised by: Carlie Glaister

Version: 2.0

Instrument #: 100667

Analyst: Tatiana Lee

Start Date: July 14, 2022

- 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 1.6 L (1.3L to 1.7L)

Linearity Test (attached)

0.020g/210L Mnf: Airgas Lot: AT1400401 Exp: 01/04/2023  
 0.040g/210L Mnf: Airgas Lot: AT111910 Exp: 04/27/2023  
 0.080g/210L Mnf: Airgas Lot: AT113402 Exp: 05/14/2023  
 0.100g/210L Mnf: Airgas Lot: AT108404 Exp: 03/25/2023  
 0.200g/210L Mnf: tuth Lot: 20510 Exp: 12/03/2022  
 Simulator S/N: DK4177 Date Calibrated: 11/30/2021  
 0.300g/210L Mnf: tuth Lot: 21030 Exp: 02/02/2023  
 Simulator S/N: DD1176 Date Calibrated: 11/30/2021

Functional Tests (attached)

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

Acetone Mnf: lifeloc Lot: 210P41158 Level: 0.100 Exp: 04/29/2023  
 Simulator S/N: DD1200 Date Calibrated: 11/30/2021  
 Isopropanol Mnf: lifeloc Lot: 21KP41172 Level: 0.100 Exp: 11/09/2023  
 Simulator S/N: DK4176 Date Calibrated: 11/30/2021  
 Neg. Control Mnf: lifeloc Lot: 210P41155 Level: 0.100 Exp: 04/29/2023  
 Simulator S/N: DK4162 Date Calibrated: 11/29/2021

- 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: July 15, 2022

## DIAGNOSTIC RECORD

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100667  
 -----

Date: 07/14/2022  
 Time: 08:03:19

## VERSIONS

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

## TEMPERATURES

Sample Chamber = 48.8°C PASSED  
 (44.0°C - 52.0°C)  
 Breath Tube = 47.7°C PASSED  
 (38.0°C - 50.0°C)

## SETTINGS

Lamp Voltage = 1.91 V PASSED  
 (1.15 V - 2.67 V)  
 Cooler Voltage = 1.93 V PASSED  
 (1.16 V - 2.70 V)  
 Bias Voltage = 80 V PASSED  
 (48 V - 112 V)  
 Chopper Freq = 533 Hz PASSED  
 (475 Hz - 575 Hz)  
 Barometer = 29.6 in

## PUMP INFO

Flow Rate = 4.480 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 = 0.107 0.50% (0.00% - 4.00%) PASSED

## Technician Screen

-----  
DATAMASTER dmt: 100667  
-----

Date: 07/14/2022

Time: 8:25 AM

## Temperatures (°C)

Sample Cell: 48.7°C

Breath Tube: 47.2°C

Current Barometer 29.6 in

Volume (Ltr) 1.42

## Settings

Lamp: 2.15 V

Bias: 80 V

Cooler: 1.75 V

Chopper: 531 Hz

## Voltages (V)

Flow: 1.07 V

Detector: -0.026 V



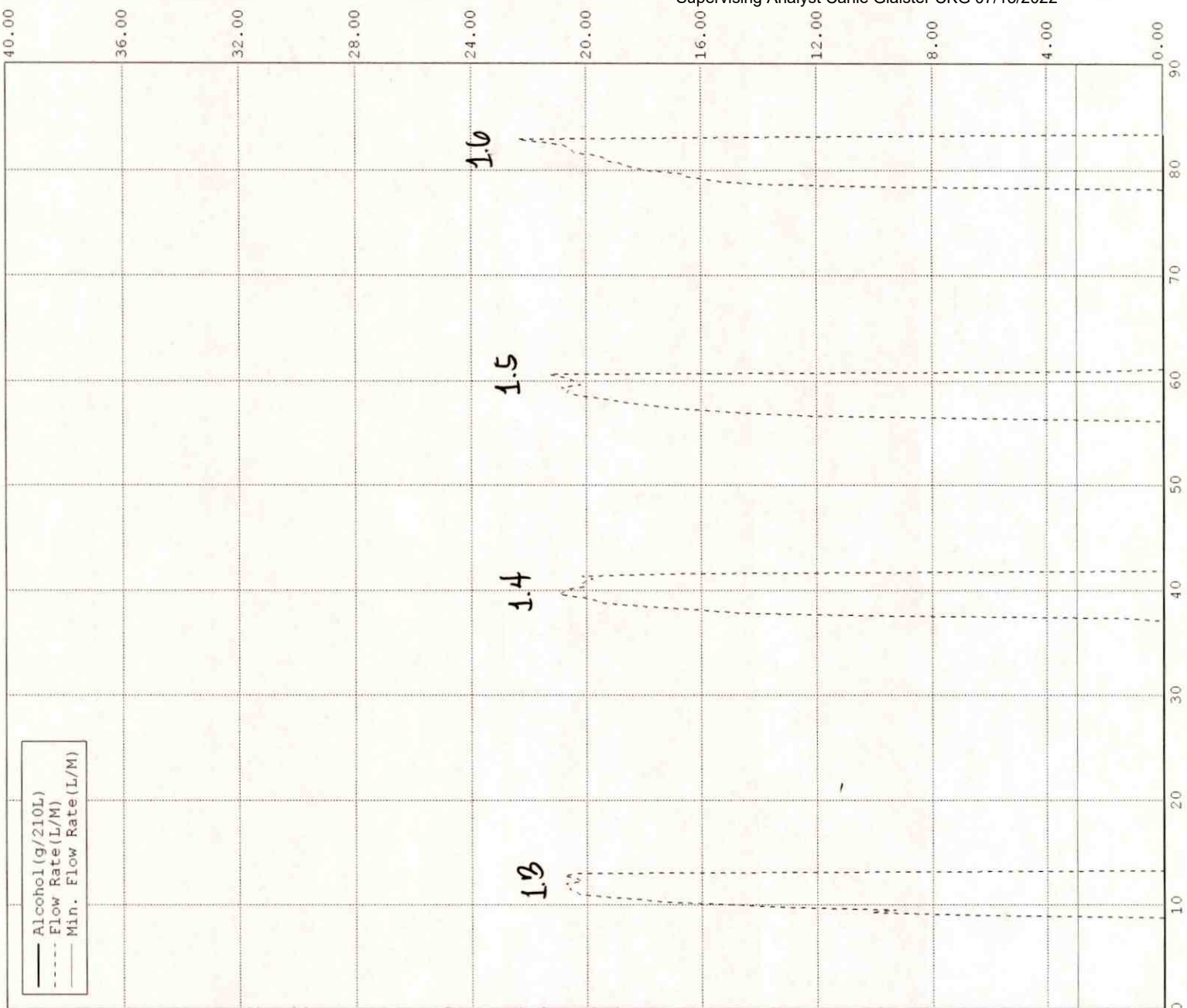
## CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100667  
-----

Date: 12/29/2021  
Time: 11:35:09

OPERATOR NAME:  
CARLIE GLAISTER  
CERTIFICATE #: 10436

Ca = 0.1000  
CAL = 0.984050    0.800 <= CAL < 1.200  
b1 = 0.0010    0.0000 <= b1 < 0.0040  
b2 = 0.0079    0.0010 <= b2 < 0.0100  
b3 = 0.0005    0.0000 <= b3 < 0.0040  
Xq = 0.1060    0.0500 <= Xq < 0.2000  
a21 = 1.213621    1.050 <= a21 < 1.300  
a31 = 0.486925    0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

Date: 07/14/2022  
 Time: 08:27:56

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXX

OPERATOR NAME:  
 TATIANA LEE  
 OPERATOR'S #: 10437

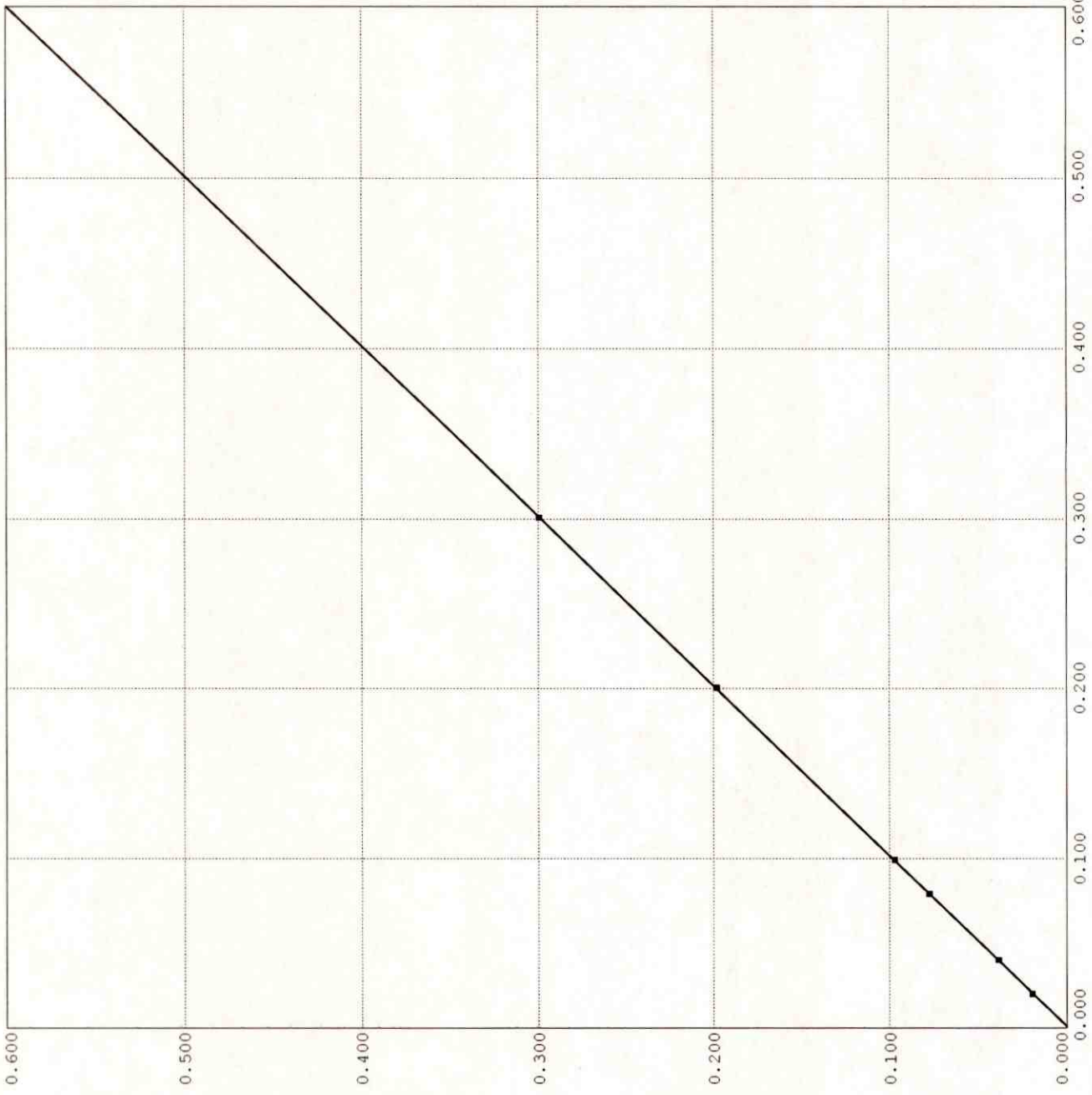
DEPT/AGENCY: *Minimum volume test*  
 XXX  
 CASE/REPORT: XXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.62: 0.079  
 LOT #: AG113402  
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	08:28
BLANK TEST	0.000	08:29
INTERNAL STANDARD	VERIFIED	08:29
EXTERNAL STANDARD	0.078	08:29
BLANK TEST	0.000	08:30
SUBJECT SAMPLE (Vol=1.50L)	0.000	08:31
BLANK TEST	0.000	08:32
EXTERNAL STANDARD	0.078	08:32
BLANK TEST	0.000	08:33

TAL



**LINEARITY CHECK**

-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100667  
 -----  
 Date: 07/14/2022  
 Time: 08:41:33  
 -----  
 SUPERVISOR NAME:  
 TATIANA LEE  
 OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0392	0.0004
0.079	0.0784	0.0005
0.099	0.0980	0.0000
0.200	0.1988	0.0008
0.300	0.3002	0.0016

SLOPE = 1.001044  
 R<sup>2</sup> = 0.999974

TAL



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

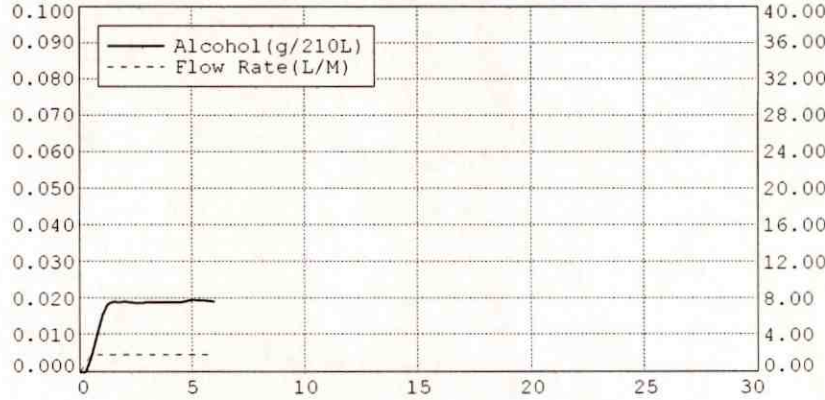
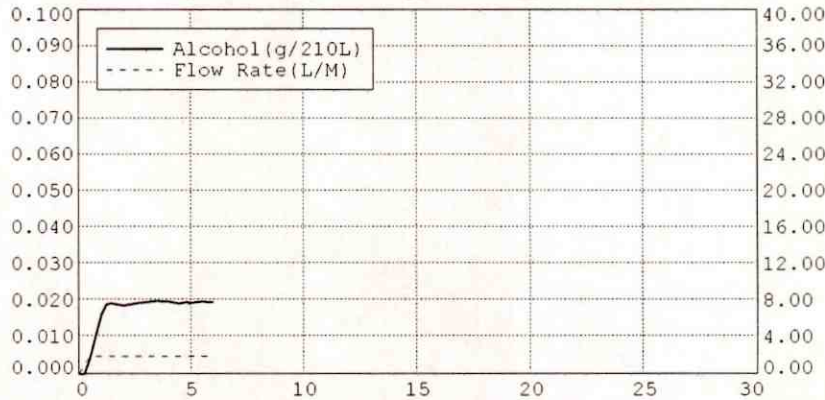
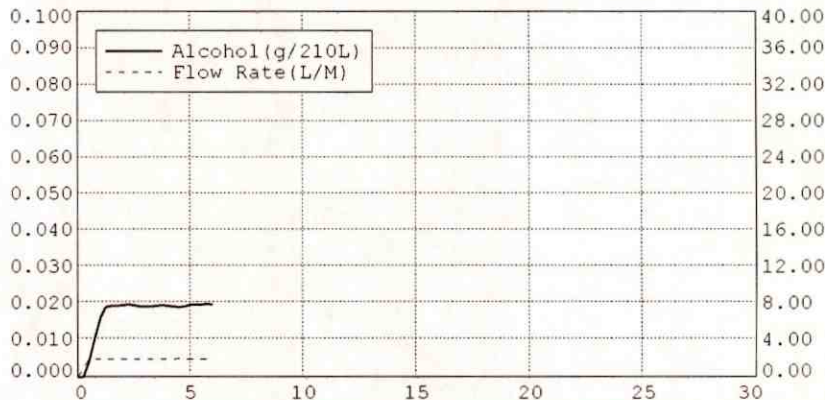
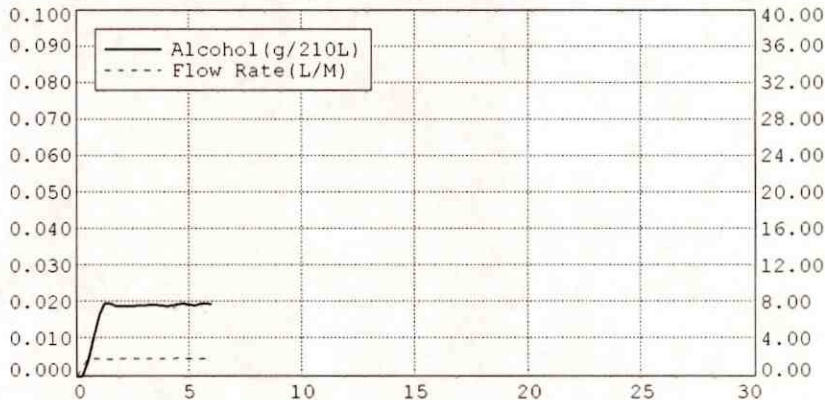
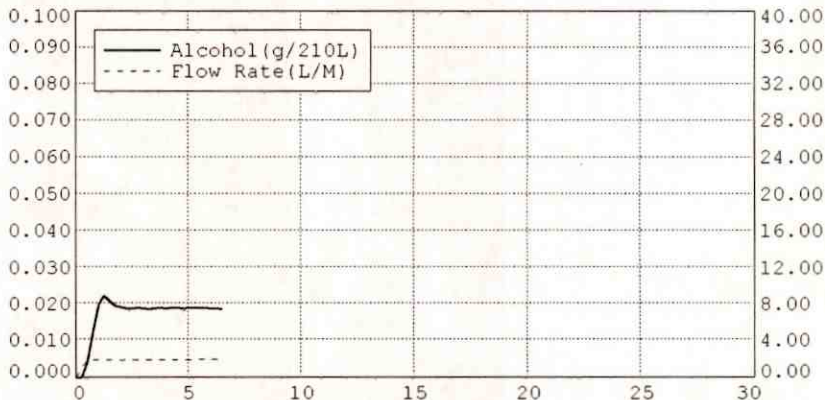
Date: 07/14/2022  
 Time: 08:41:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.63: 0.020  
 LOT #: AG100401  
 EXPIRATION: 01/04/2023  
 TANK PRESSURE: 423 psi

BLANK TEST	0.000	08:43
INTERNAL STANDARD	VERIFIED	08:43
EXTERNAL STANDARD	0.020	08:43
BLANK TEST	0.000	08:44
EXTERNAL STANDARD	0.020	08:44
BLANK TEST	0.000	08:45
EXTERNAL STANDARD	0.020	08:46
BLANK TEST	0.000	08:46
EXTERNAL STANDARD	0.020	08:47
BLANK TEST	0.000	08:48
EXTERNAL STANDARD	0.020	08:48
BLANK TEST	0.000	08:49

Average = 0.0200  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

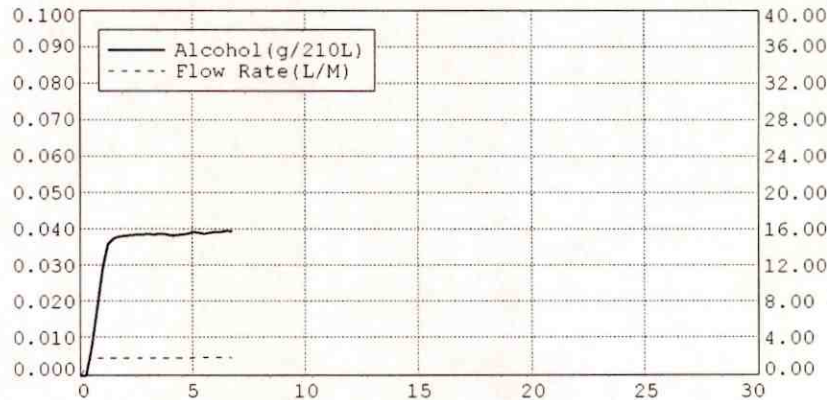
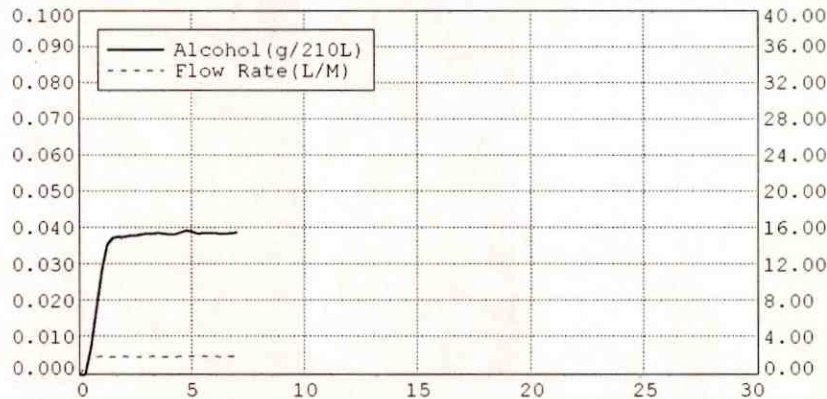
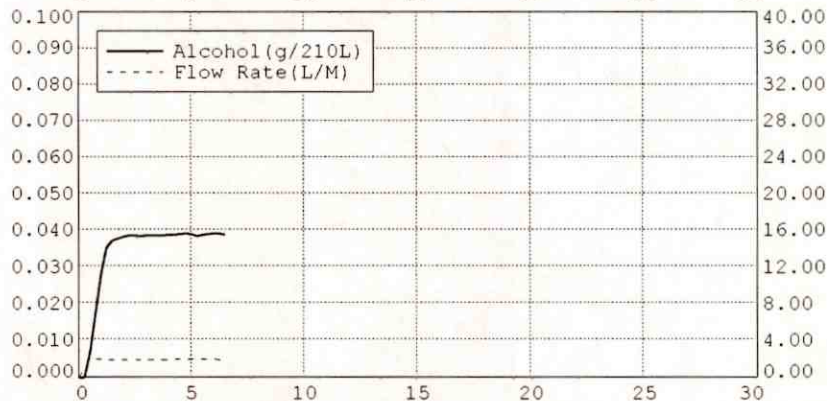
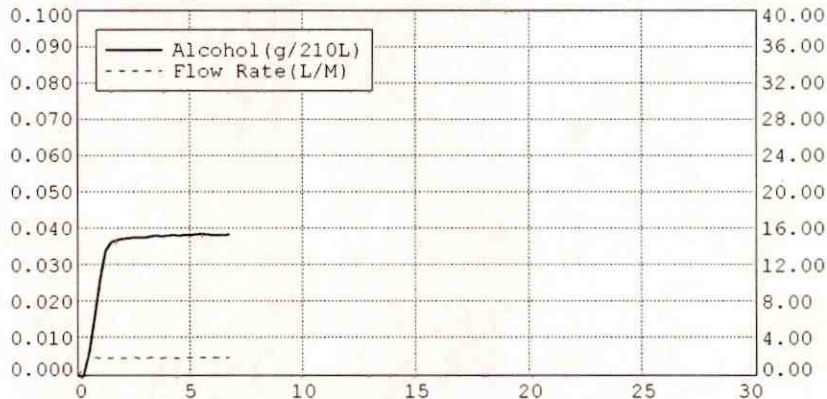
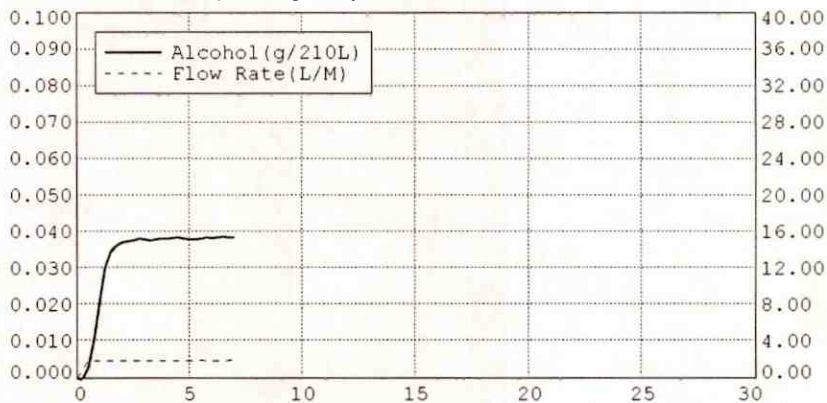
Date: 07/14/2022  
 Time: 08:49:51

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
 TARGET AT 29.63: 0.040  
 LOT #: AG111710  
 EXPIRATION: 04/27/2023  
 TANK PRESSURE: 198 psi

BLANK TEST	0.000	08:51
INTERNAL STANDARD	VERIFIED	08:51
EXTERNAL STANDARD	0.039	08:52
BLANK TEST	0.000	08:53
EXTERNAL STANDARD	0.039	08:53
BLANK TEST	0.000	08:54
EXTERNAL STANDARD	0.039	08:54
BLANK TEST	0.000	08:55
EXTERNAL STANDARD	0.039	08:55
BLANK TEST	0.000	08:56
EXTERNAL STANDARD	0.040	08:56
BLANK TEST	0.000	08:57

Average = 0.0392  
 Std Dev = 0.0004





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

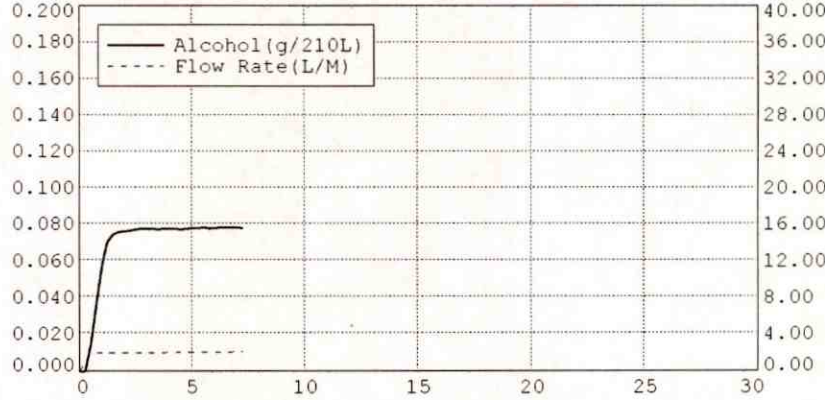
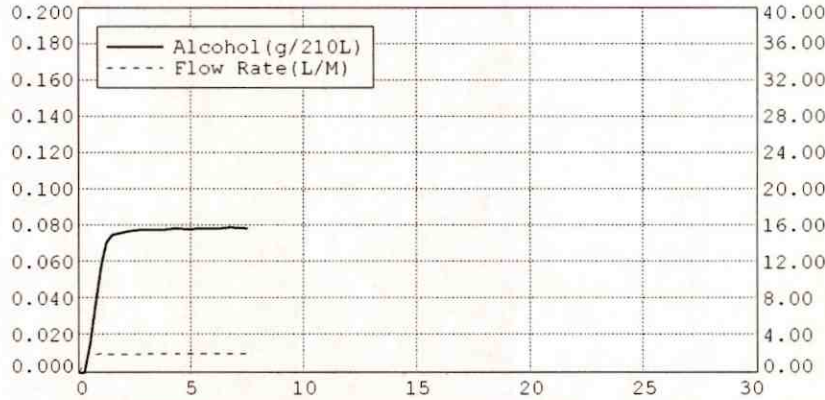
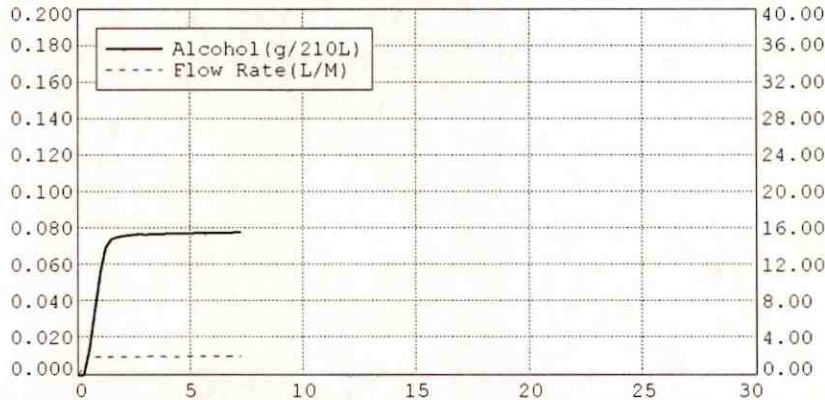
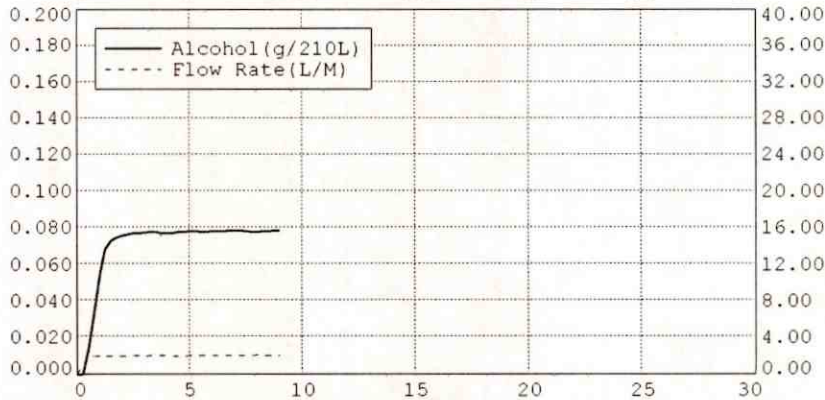
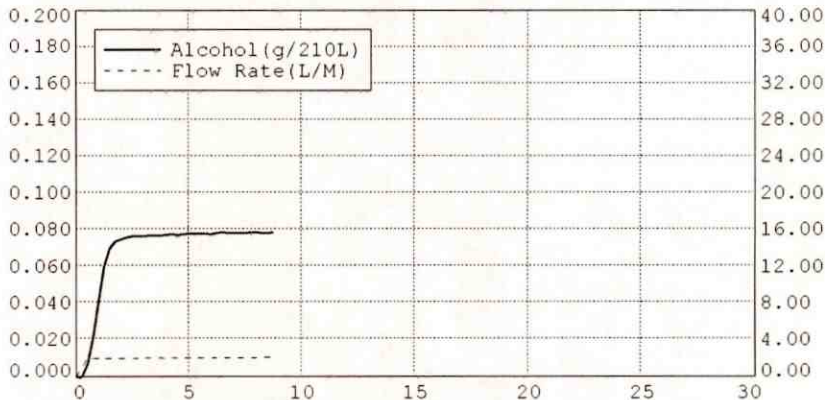
Date: 07/14/2022  
 Time: 08:57:52

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.63: 0.079  
 LOT #: AG113402  
 EXPIRATION: 05/14/2023  
 TANK PRESSURE: 1223 psi

BLANK TEST	0.000	08:59
INTERNAL STANDARD	VERIFIED	08:59
EXTERNAL STANDARD	0.079	08:59
BLANK TEST	0.000	09:00
EXTERNAL STANDARD	0.078	09:01
BLANK TEST	0.000	09:01
EXTERNAL STANDARD	0.078	09:02
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.079	09:03
BLANK TEST	0.000	09:04
EXTERNAL STANDARD	0.078	09:04
BLANK TEST	0.000	09:05

Average = 0.0784  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

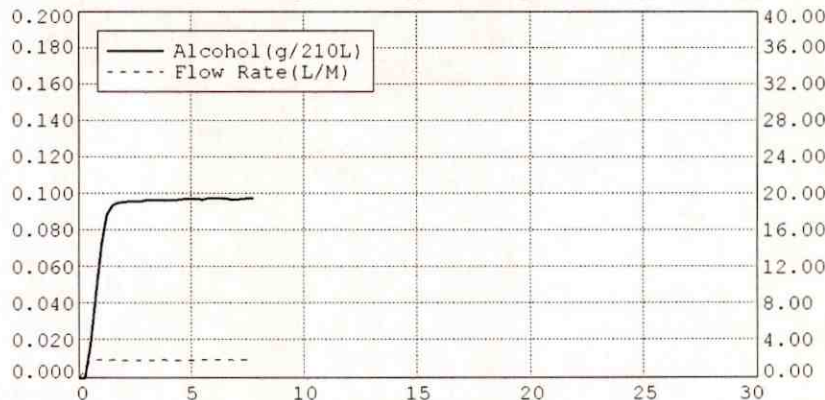
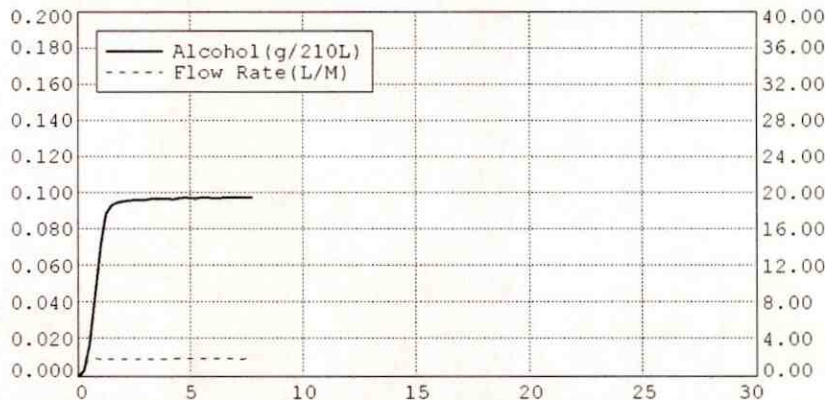
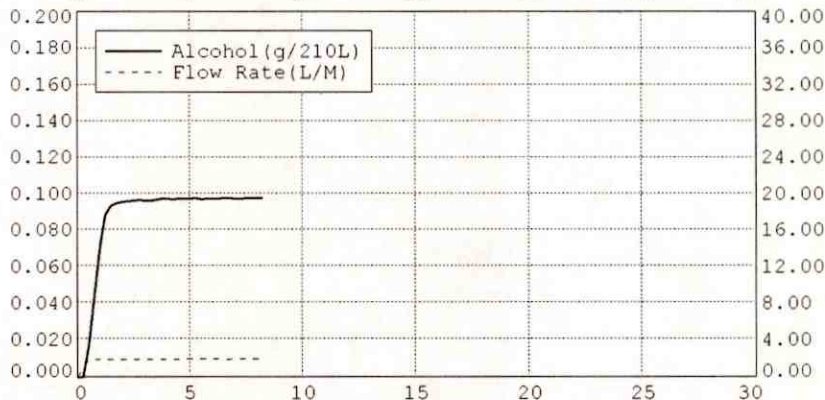
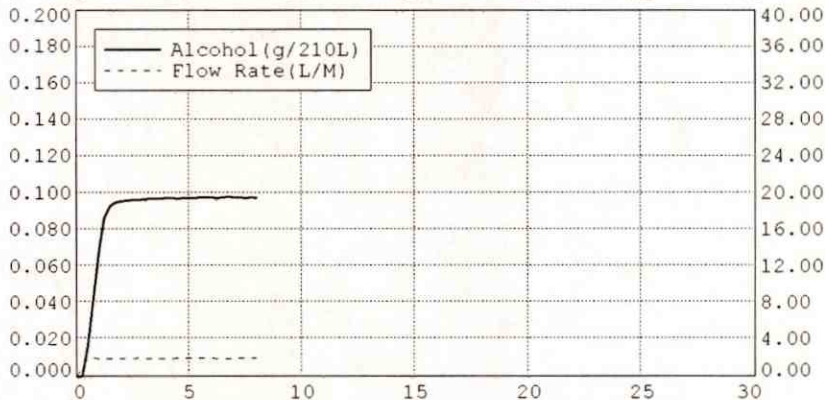
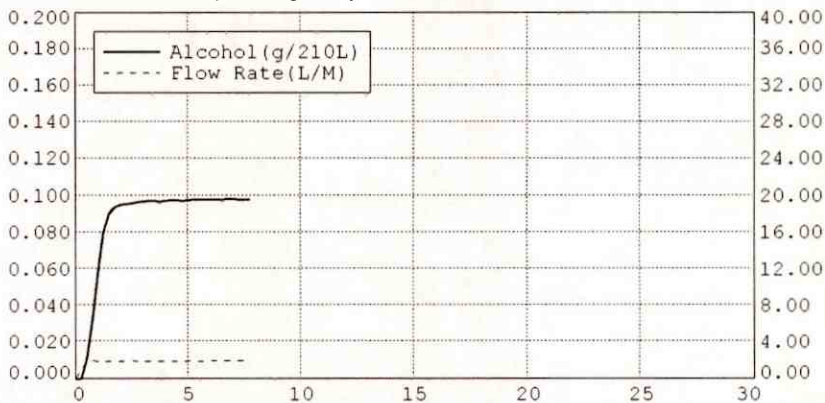
Date: 07/14/2022  
 Time: 09:05:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
 TARGET AT 29.63: 0.099  
 LOT #: AG108404  
 EXPIRATION: 03/25/2023  
 TANK PRESSURE: 382 psi

BLANK TEST	0.000	09:07
INTERNAL STANDARD	VERIFIED	09:07
EXTERNAL STANDARD	0.098	09:08
BLANK TEST	0.000	09:08
EXTERNAL STANDARD	0.098	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.098	09:10
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.098	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.098	09:12
BLANK TEST	0.000	09:13

Average = 0.0980  
 Std Dev = 0.0000





LINEARITY CHECK: Control Test 5

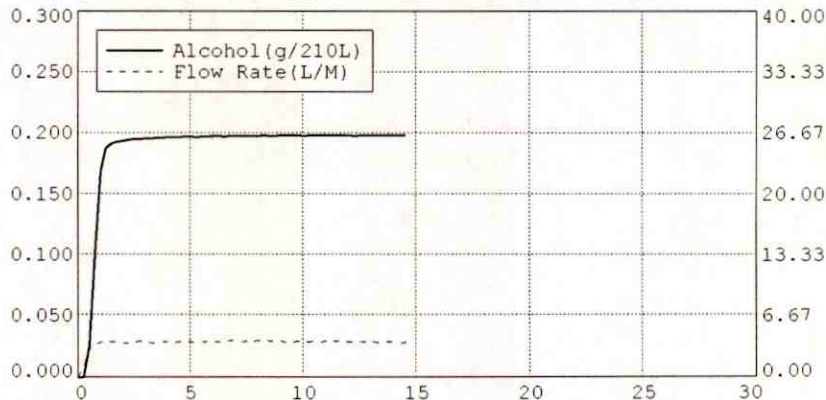
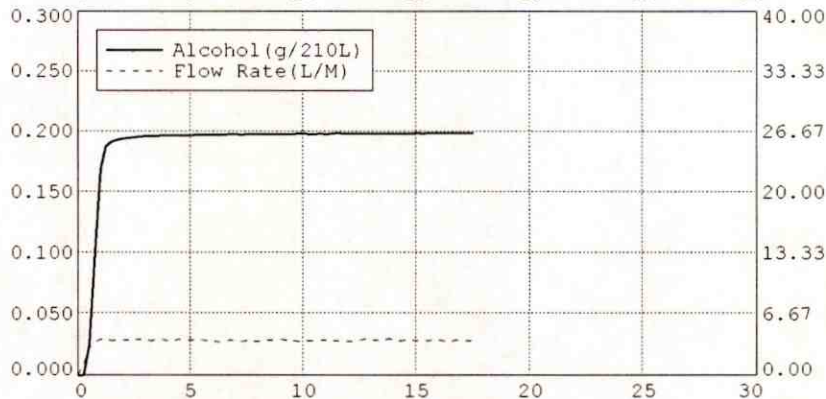
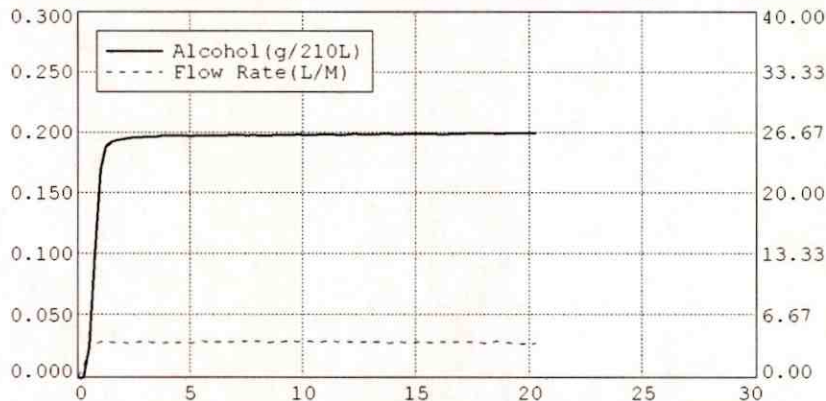
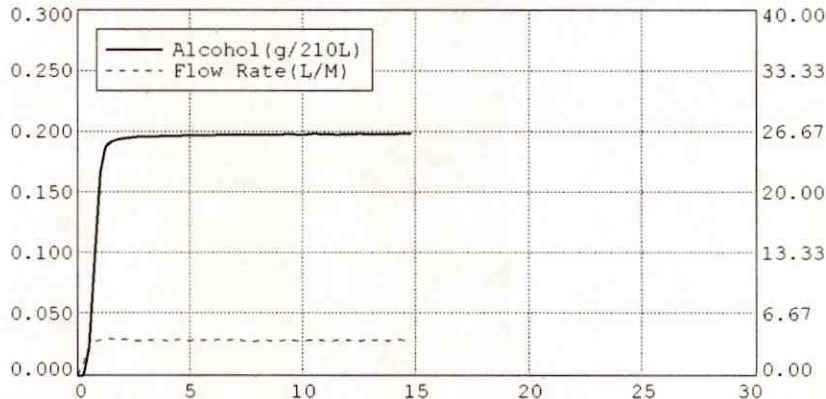
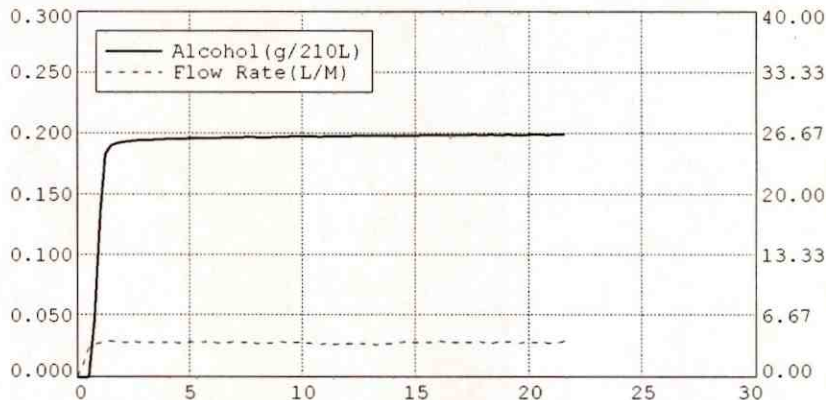
Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

Date: 07/14/2022  
 Time: 09:28:14

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

BLANK TEST	0.000	09:29
INTERNAL STANDARD	VERIFIED	09:29
EXTERNAL STANDARD	0.199	09:29
BLANK TEST	0.000	09:30
EXTERNAL STANDARD	0.198	09:31
BLANK TEST	0.000	09:32
EXTERNAL STANDARD	0.200	09:32
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.199	09:33
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.198	09:35
BLANK TEST	0.000	09:35

Average = 0.1988  
 Std Dev = 0.0008





LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

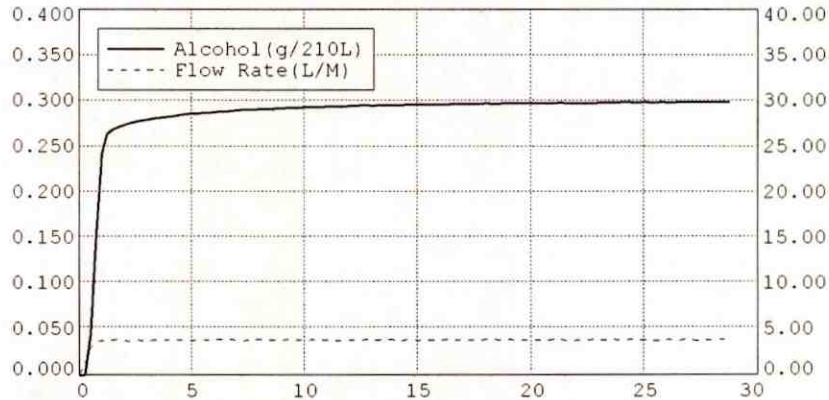
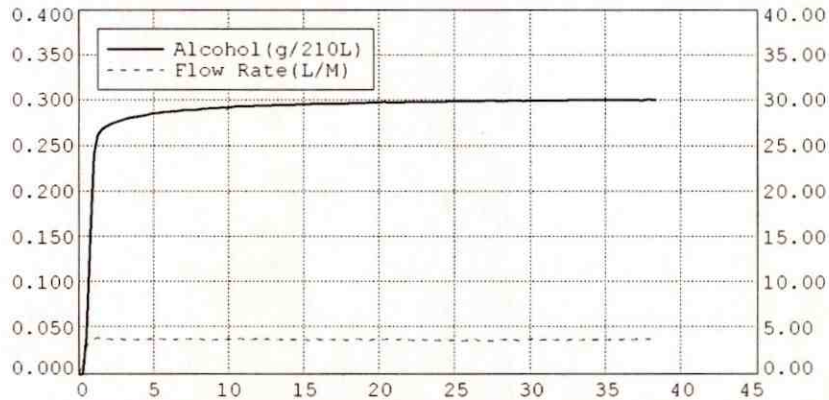
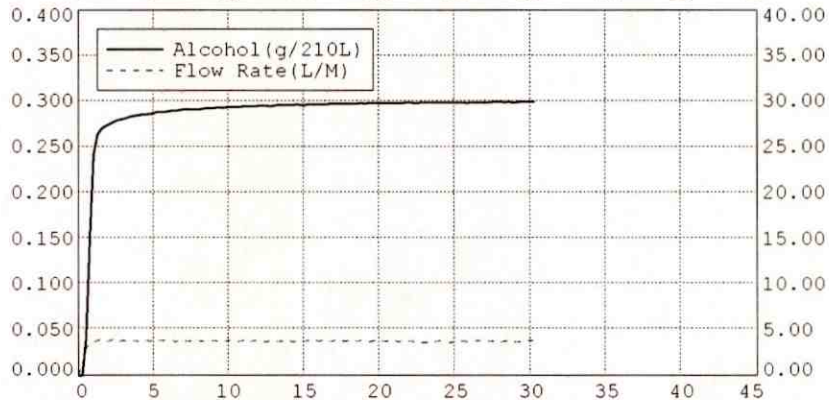
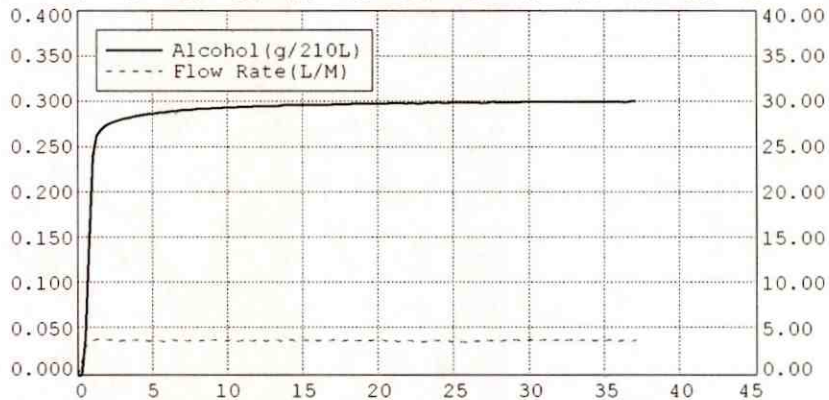
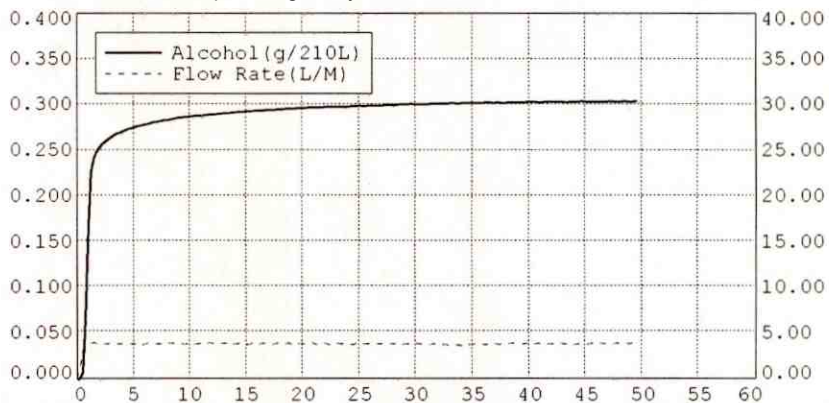
Date: 07/14/2022  
 Time: 09:38:55

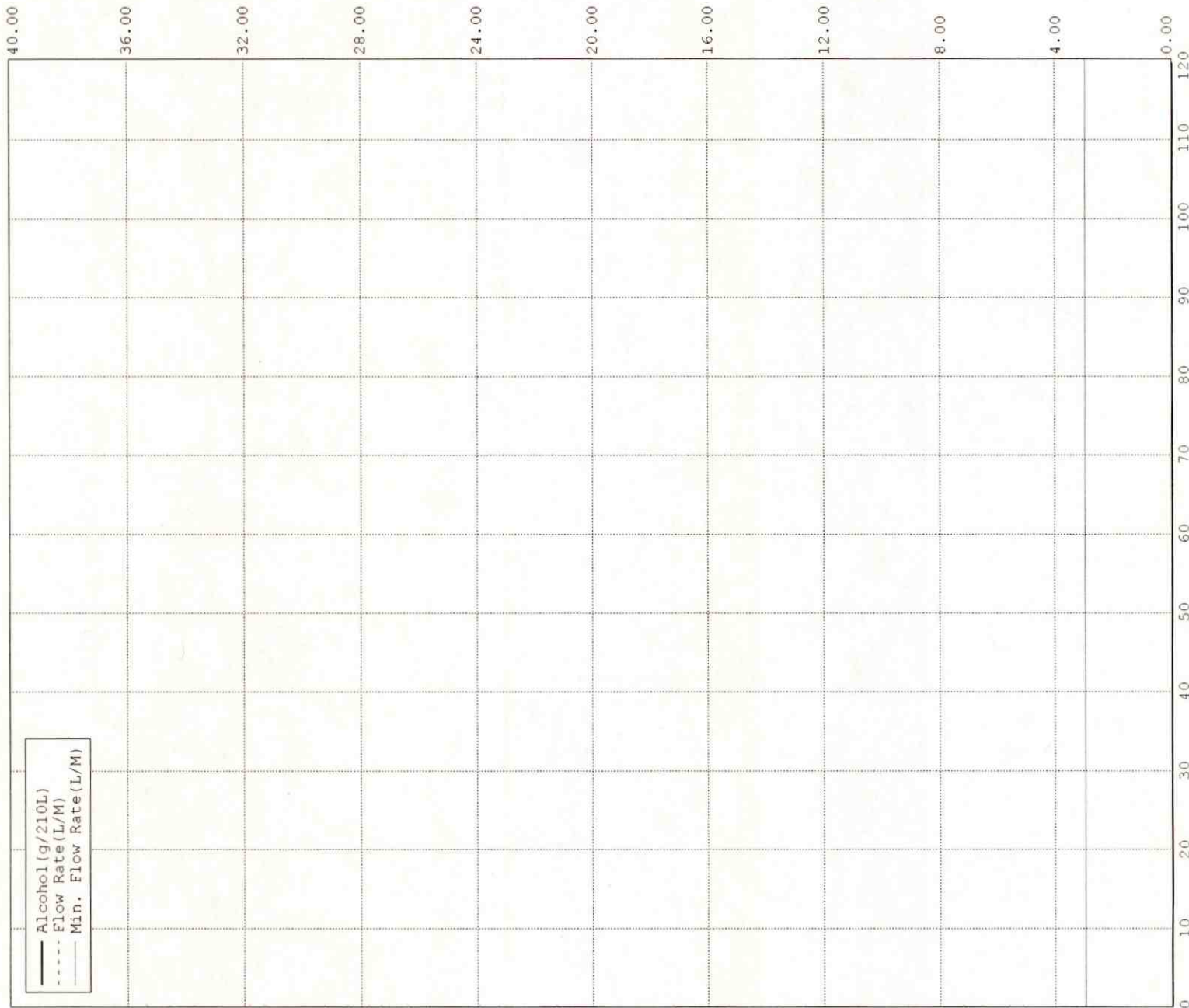
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	09:40
INTERNAL STANDARD	VERIFIED	09:40
EXTERNAL STANDARD	0.303	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.300	09:42
BLANK TEST	0.000	09:43
EXTERNAL STANDARD	0.299	09:44
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.300	09:45
BLANK TEST	0.000	09:46
EXTERNAL STANDARD	0.299	09:47
BLANK TEST	0.000	09:48

Average = 0.3002  
 Std Dev = 0.0016





SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

Date: 07/14/2022  
 Time: 09:54:59

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXX

OPERATOR NAME:  
 TATIANA LEE  
 OPERATOR'S #: 10437

DEPT/AGENCY: *incomplete test*  
 XXX *TAL 07/14/22*

CASE/REPORT: XXX  
 TEST TYPE: TEST

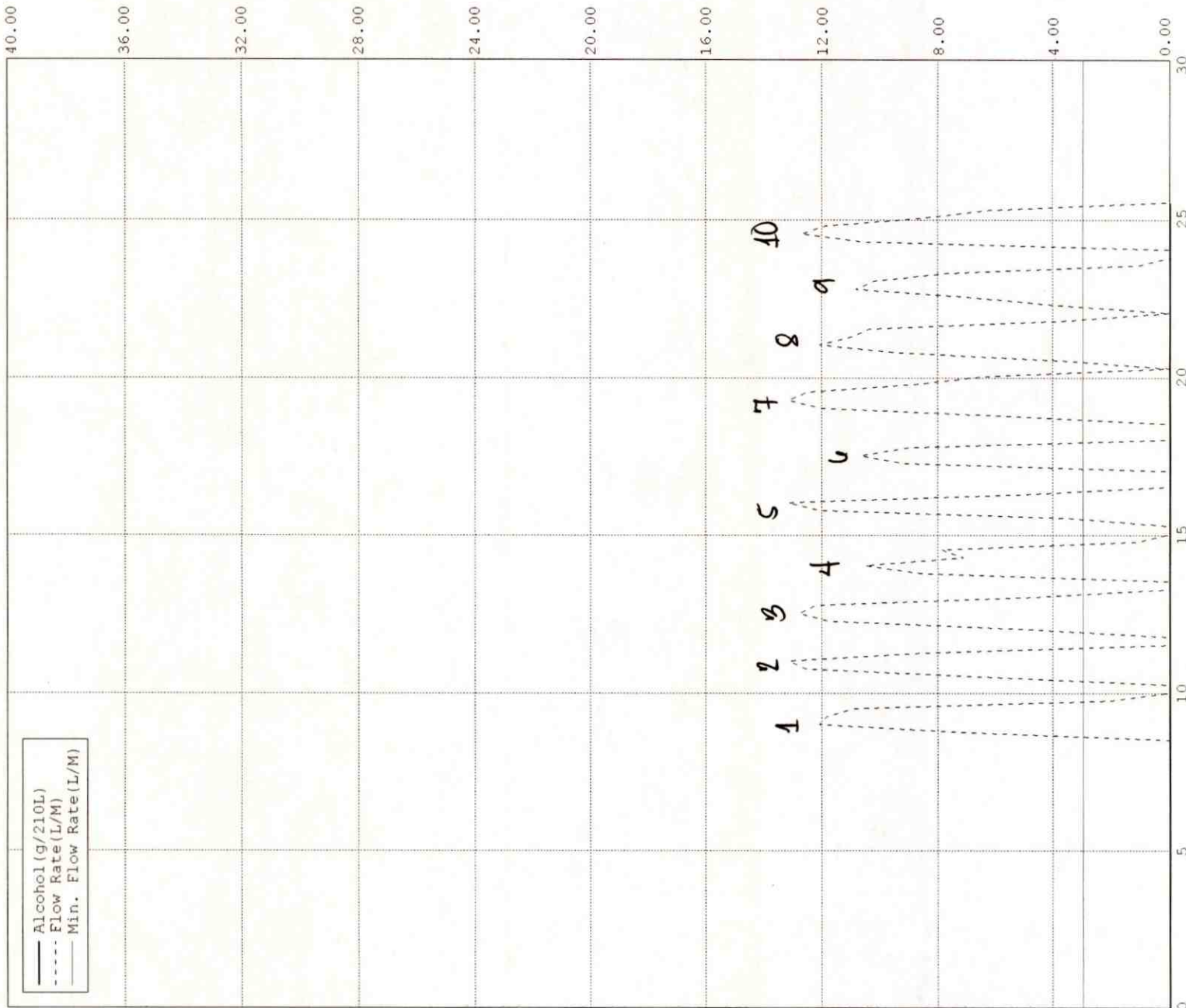
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.63: 0.079  
 LOT #: AG113402  
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 09:56  
 BLANK TEST 0.000 09:56  
 INTERNAL STANDARD VERIFIED 09:56  
 EXTERNAL STANDARD 0.078 09:56  
 BLANK TEST 0.000 09:57  
 SUBJECT SAMPLE INCOMPLETE 09:59

*TAL*





SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

Date: 07/14/2022  
 Time: 10:02:53

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXX

OPERATOR NAME:  
 TATIANA LEE  
 OPERATOR'S #: 10437

DEPT/AGENCY: **Maximum Attempts Exceeded**  
 XXX  
 CASE/REPORT: XXX  
 TEST TYPE: TEST  
 TAL 07/14/22

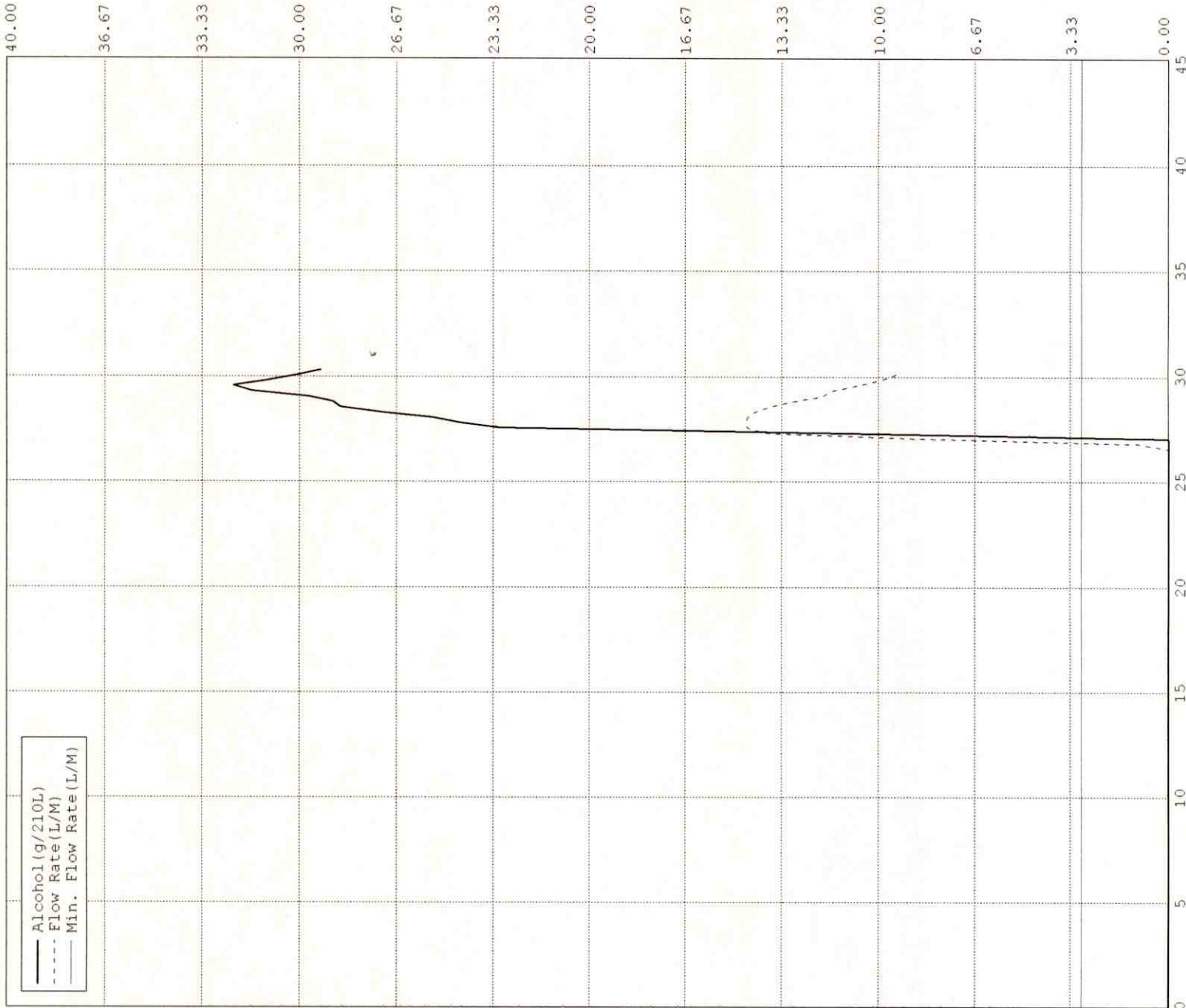
EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.63: 0.079  
 LOT #: AG113402  
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 10:04  
 BLANK TEST 0.000 10:04  
 INTERNAL STANDARD VERIFIED 10:04  
 EXTERNAL STANDARD 0.078 10:04  
 BLANK TEST 0.000 10:05  
 SUBJECT SAMPLE XXX 10:06

Maximum Attempts Exceeded

TAL





SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

Date: 07/14/2022  
 Time: 12:36:56

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXX

OPERATOR NAME:  
 TATIANA LEE  
 OPERATOR'S #: 10437

DEPT/AGENCY: *invalid test*  
 XXX *TRH 07/14/22*

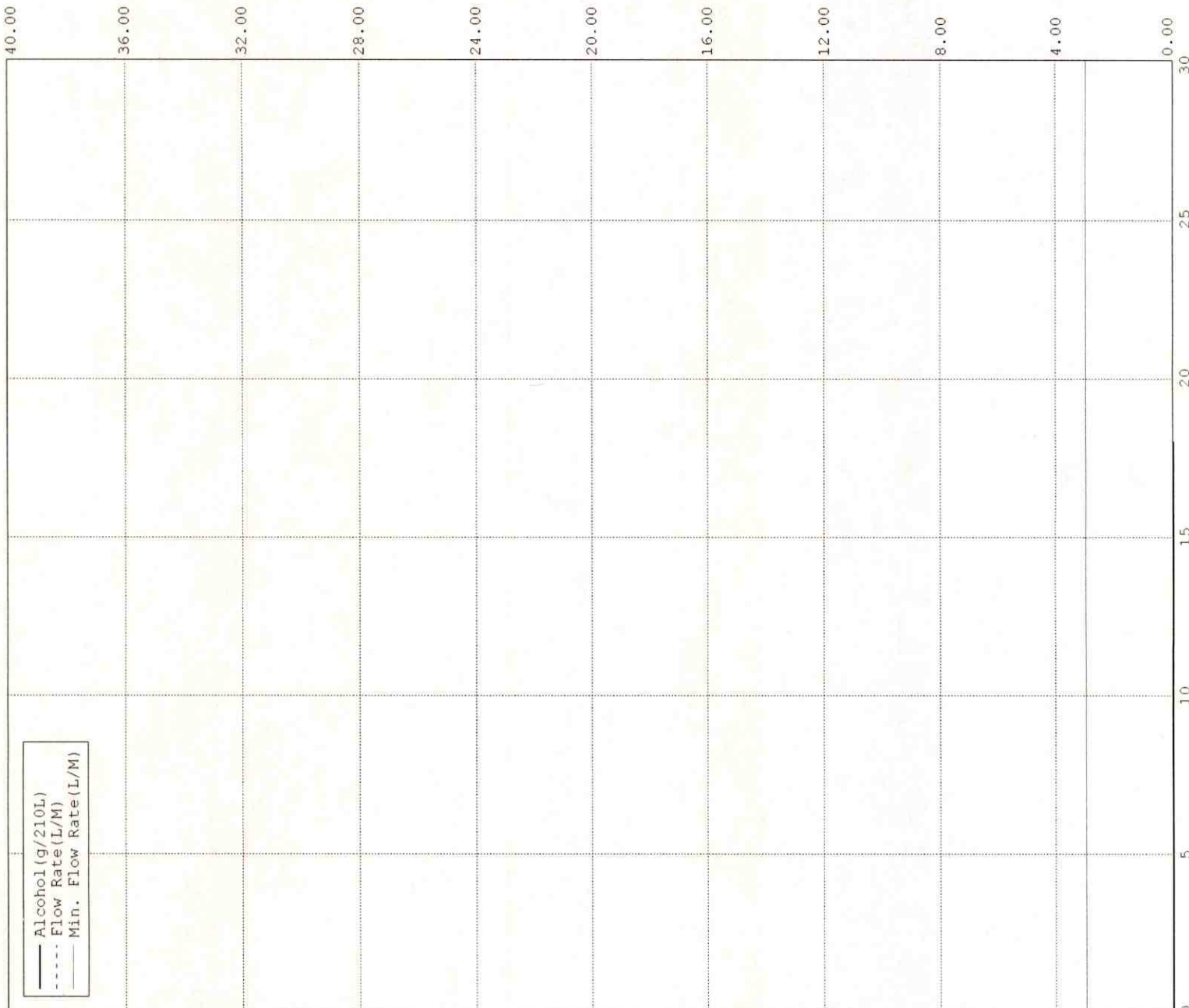
CASE/REPORT: XXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.62: 0.079  
 LOT #: AG113402  
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	12:37
BLANK TEST	0.000	12:38
INTERNAL STANDARD	VERIFIED	12:38
EXTERNAL STANDARD	0.078	12:38
BLANK TEST	0.000	12:39
SUBJECT SAMPLE	INVALID	12:40

*TRH*



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

Date: 07/14/2022  
 Time: 12:54:41

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXX

OPERATOR NAME:  
 TATIANA LEE  
 OPERATOR'S #: 10437

DEPT/AGENCY:  
 RFI  
 CASE/REPORT: XXX  
 TEST TYPE: TEST

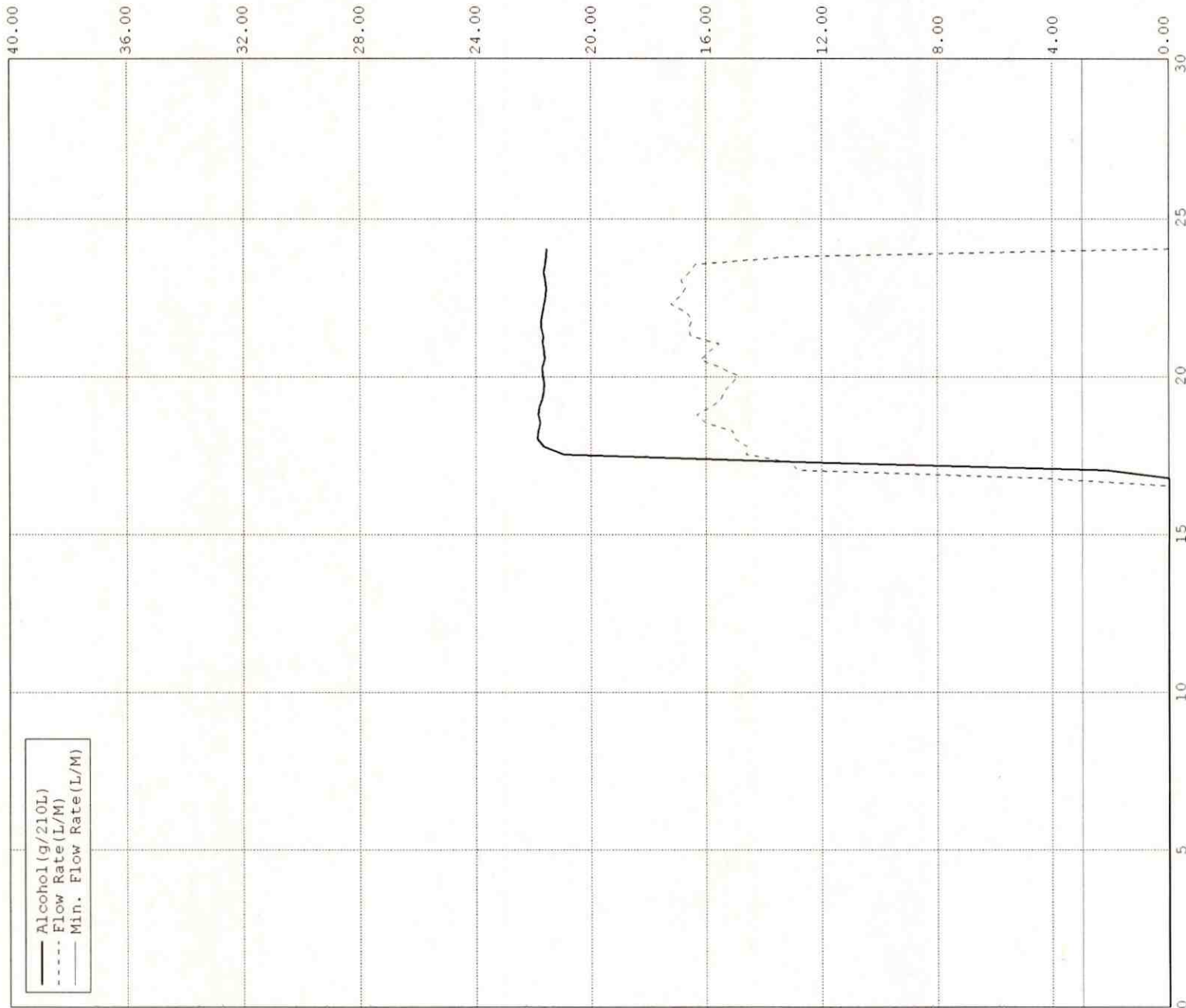
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.63: 0.079  
 LOT #: AG113402  
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 12:55  
 BLANK TEST 0.000 12:55  
 INTERNAL STANDARD VERIFIED 12:55  
 EXTERNAL STANDARD 0.078 12:56  
 BLANK TEST 0.000 12:57

RFI DETECTED

TAL



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

Date: 07/14/2022  
 Time: 13:10:31

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXX

OPERATOR NAME:  
 TATIANA LEE  
 OPERATOR'S #: 10437

DEPT/AGENCY:  
 INTERFERENCE ACETONE  
 CASE/REPORT: XXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.62: 0.079  
 LOT #: AG113402  
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:11
BLANK TEST	0.000	13:11
INTERNAL STANDARD	VERIFIED	13:11
Xq = 0.107 (0.50%)		
EXTERNAL STANDARD	0.079	13:11
X[1] = 0.0785 (-0.0003) (0.0029)		
BLANK TEST	0.000	13:12
SUBJECT SAMPLE	XXX	13:13
X[1] = 0.1081 (-0.0169) (0.0015)		

Interference Detected

Filter 2 Avg: -0.0002  
 Filter 3 Avg: 0.0028  
 TAL 07/15/22

TAL





SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

Date: 07/14/2022  
 Time: 13:25:13

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXX

OPERATOR NAME:  
 TATIANA LEE  
 OPERATOR'S #: 10437

DEPT/AGENCY:  
 INTERFERENCE IPA  
 CASE/REPORT: XXX  
 TEST TYPE: TEST

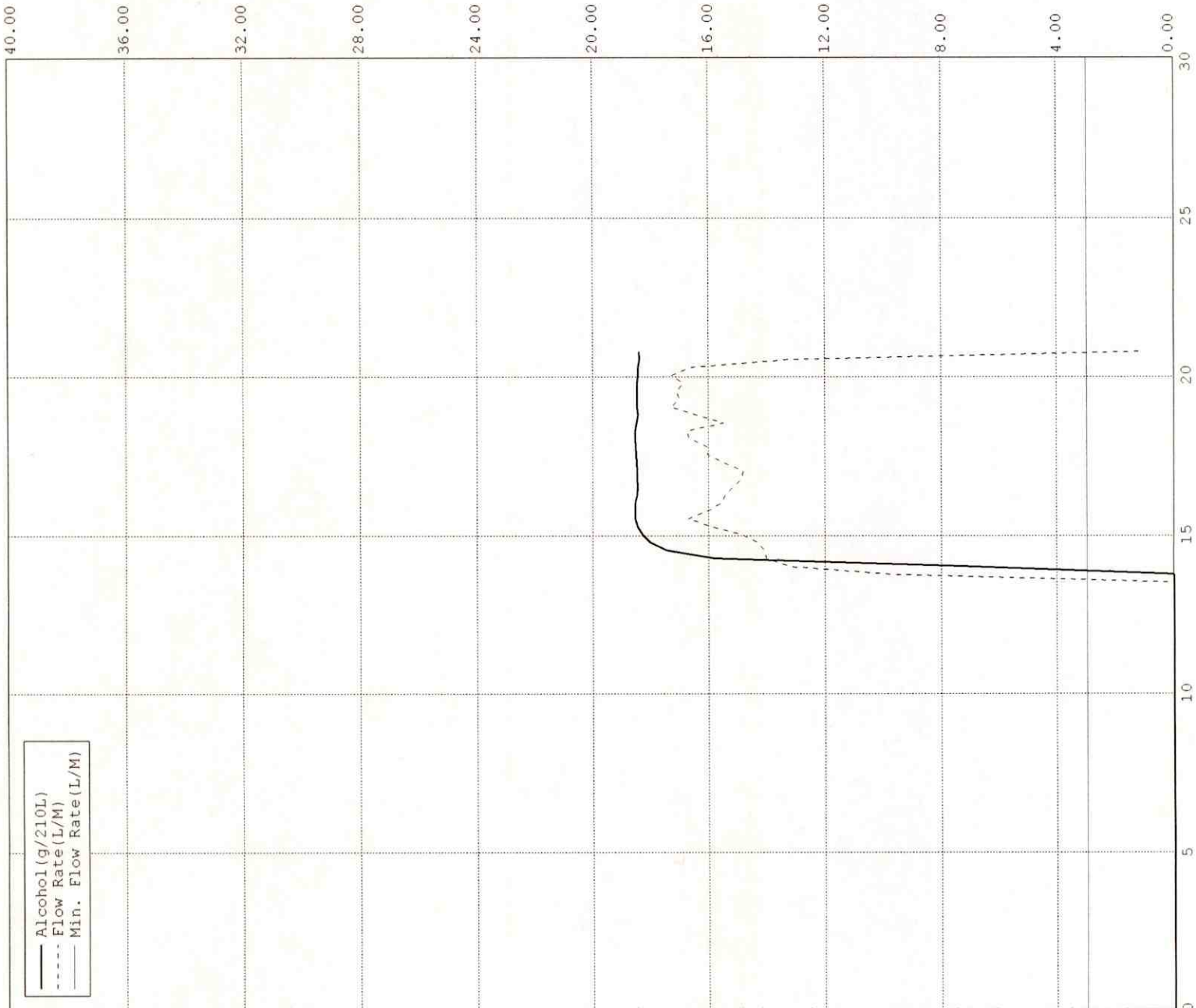
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.63: 0.079  
 LOT #: AG113402  
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:26
BLANK TEST	0.000	13:26
INTERNAL STANDARD	VERIFIED	13:26
Xq = 0.107 (0.91%)		
EXTERNAL STANDARD	0.078	13:26
X[1] = 0.0783 (-0.0005) (0.0027)		
BLANK TEST	0.000	13:27
SUBJECT SAMPLE	XXX	13:28
X[1] = 0.1232 (-0.0346) (0.0025)		

Interference Detected

TAL



**SUBJECT TEST**

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 Alaska Department of Public Safety  
 DATAMASTER dmt: 100667  
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 Date: 07/14/2022  
 Time: 13:17:37

**SUBJECT NAME:**  
**TEST TEST**  
**LICENSE #:** XXX

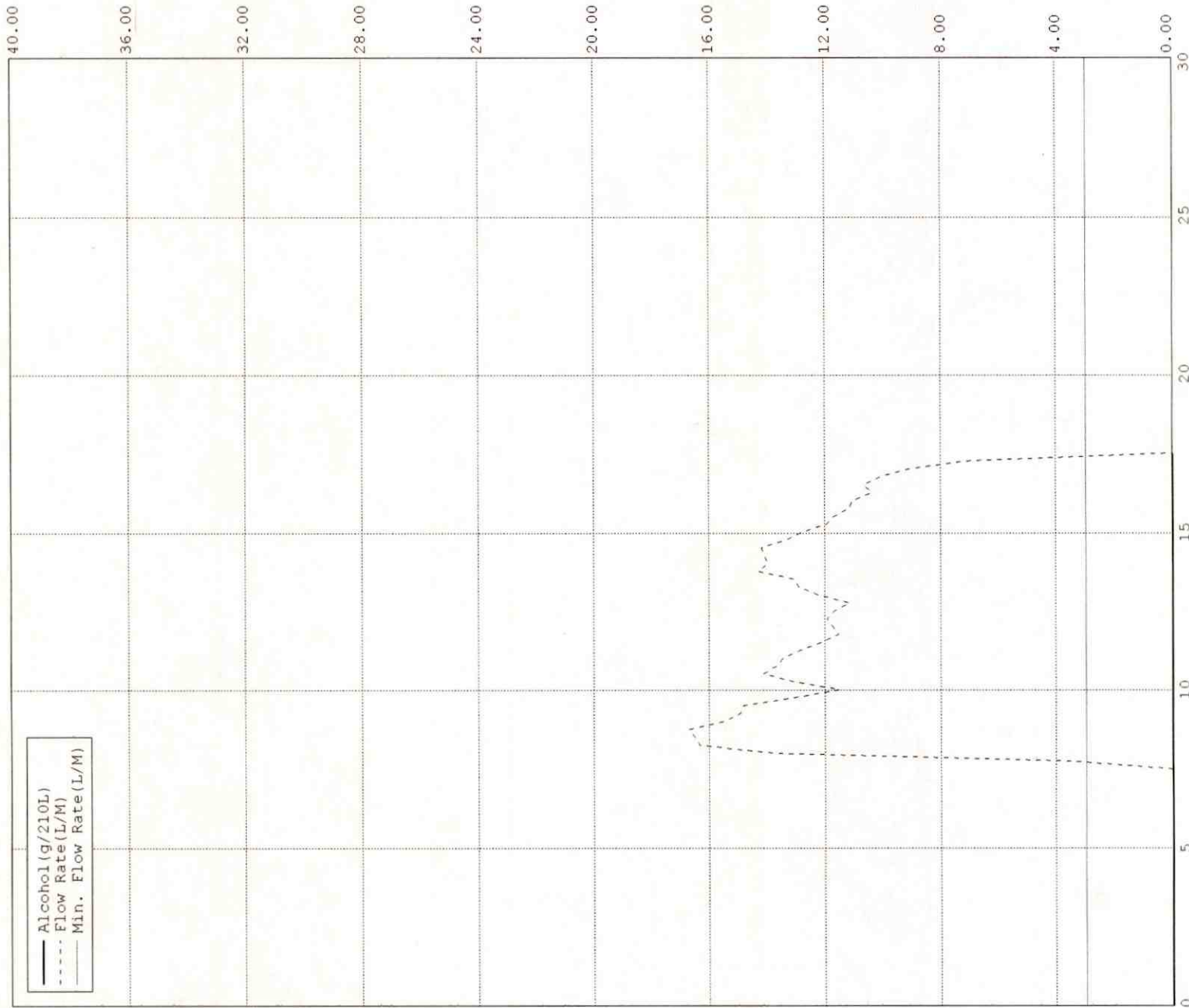
**OPERATOR NAME:**  
 TATIANA LEE  
 OPERATOR'S #: 10437

**DEPT/AGENCY:**  
 INTERFERENCE NEG CONTROL  
**CASE/REPORT:** XXX  
**TEST TYPE:** TEST

**EXTERNAL STANDARD INFORMATION**  
 NOMINAL: 0.080  
 TARGET AT 29.63: 0.079  
 LOT #: AG113402  
 EXPIRATION: 05/14/2023

<b>DIAGNOSTIC CHECK</b>	PASSED	13:18
<b>BLANK TEST</b>	0.000	13:18
<b>INTERNAL STANDARD</b>	VERIFIED	13:19
$Xq = 0.107 (0.58\%)$		
<b>EXTERNAL STANDARD</b>	0.078	13:19
$X[1] = 0.0784 (-0.0002) (0.0030)$		
<b>BLANK TEST</b>	0.000	13:20
<b>SUBJECT SAMPLE (Vol=1.81L)</b>	0.092	13:20
$X[1] = 0.0925 (0.0010) (0.0013)$		
<b>BLANK TEST</b>	0.000	13:21
<b>EXTERNAL STANDARD</b>	0.078	13:21
$X[1] = 0.0779 (0.0002) (0.0025)$		
<b>BLANK TEST</b>	0.000	13:22

TAL



SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100667

Date: 07/14/2022  
 Time: 14:08:49

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXX

OPERATOR NAME:  
 TATIANA LEE  
 OPERATOR'S #: 10437

DEPT/AGENCY:  
 NON DRINKING TEST  
 CASE/REPORT: XXX  
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.63: 0.079  
 LOT #: AG113402  
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	14:09
BLANK TEST	0.000	14:10
INTERNAL STANDARD	VERIFIED	14:10
EXTERNAL STANDARD	0.079	14:10
BLANK TEST	0.000	14:11
SUBJECT SAMPLE (Vol=2.04L)	0.000	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.079	14:12
BLANK TEST	0.000	14:13

TAL