

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Effective: 11/10/2021

Supervised by: Carlie Glaister

Version: 2.0

Instrument #: 100678 Analyst: Tatiana Lee Start Date: July 14, 2023

- Diagnostic Test (attached)
 Internal Standard value \leq 3.00%
- Adjust voltages, if needed
 Lamp (2.6V Maximum)
 Chopper Frequency
- Bias
 Detector Voltage (-0.100V to 0.100V)
- Cooler (2.0V Maximum)
- 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 1.5 L (1.3L to 1.7L)

Linearity Test (attached)

0.020g/210L Mnf: Airgas Lot: At100401 Exp: 04/04/2023

0.040g/210L Mnf: Airgas Lot: At111710 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: buth Lot: 20510 Exp: 12/03/2022

Simulator S/N: DK4177 Date Calibrated: 11/30/2021

0.300g/210L Mnf: buth Lot: 21030 Exp: 02/02/2023

Simulator S/N: JD1176 Date Calibrated: 11/30/2021

Functional Tests (attached)

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

Acetone Mnf: LIFELOC Lot: 21DP41158 Level: 0.100 Exp: 04/29/2023

Simulator S/N: JD1200 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: 21DP41158 Level: 0.100 Exp: 04/29/2023

Simulator S/N: DK4162 Date Calibrated: 11/29/2021

- Verify stylus is calibrated
 Non-Drinking Subject Test
- Reset Options
 Upload
- Clear Memory
 Remove Tank Prior to Shutdown
- Verification of Calibration
 Add Linearity Data to Spreadsheet

End Date: July 15, 2022

At 1:45 PM (1345 hrs) on 7/14/2022 while printing test details for interference records it was noticed that the date and time on the DataMaster was incorrect. The date was hand corrected on all documents. The time was exactly 12 hours off and was not hand corrected (e.g Diagnostic Record shows a time of 20:09:32, this test was actually performed at 8:09 AM). The date and time were corrected on the instrument, and the VOC shows the correct date and time.

CWG 7/14/2022

TAL 07/14/2022

DIAGNOSTIC RECORD

 Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: ~~08/09/2019~~ 07/14/22 TAL 07/15/22
 Time: 20:09:32

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 = 48.1°C PASSED
 (38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.71 V PASSED
 (1.03 V - 2.39 V)
 Cooler Voltage = 1.67 V PASSED
 (1.00 V - 2.34 V)
 Bias Voltage = 80 V PASSED
 (48 V - 112 V)
 Chopper Freq = 518 Hz PASSED
 (475 Hz - 575 Hz)
 Barometer = 29.6 in

PUMP INFO

Flow Rate = 5.167 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

Xq = 0.081 0.98% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100678

Date: ~~08/09/2019~~ 07/14/2022 TAL 07/15/22
Time: 8:21 PM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 47.2°C

Current Barometer 29.6 in
Volume (Ltr) 1.57

Settings

Lamp: 1.71 V
Bias: 80 V
Cooler: 1.55 V
Chopper: 514 Hz

Voltages (V)

Flow: 1.07 V
Detector: 0.033 V

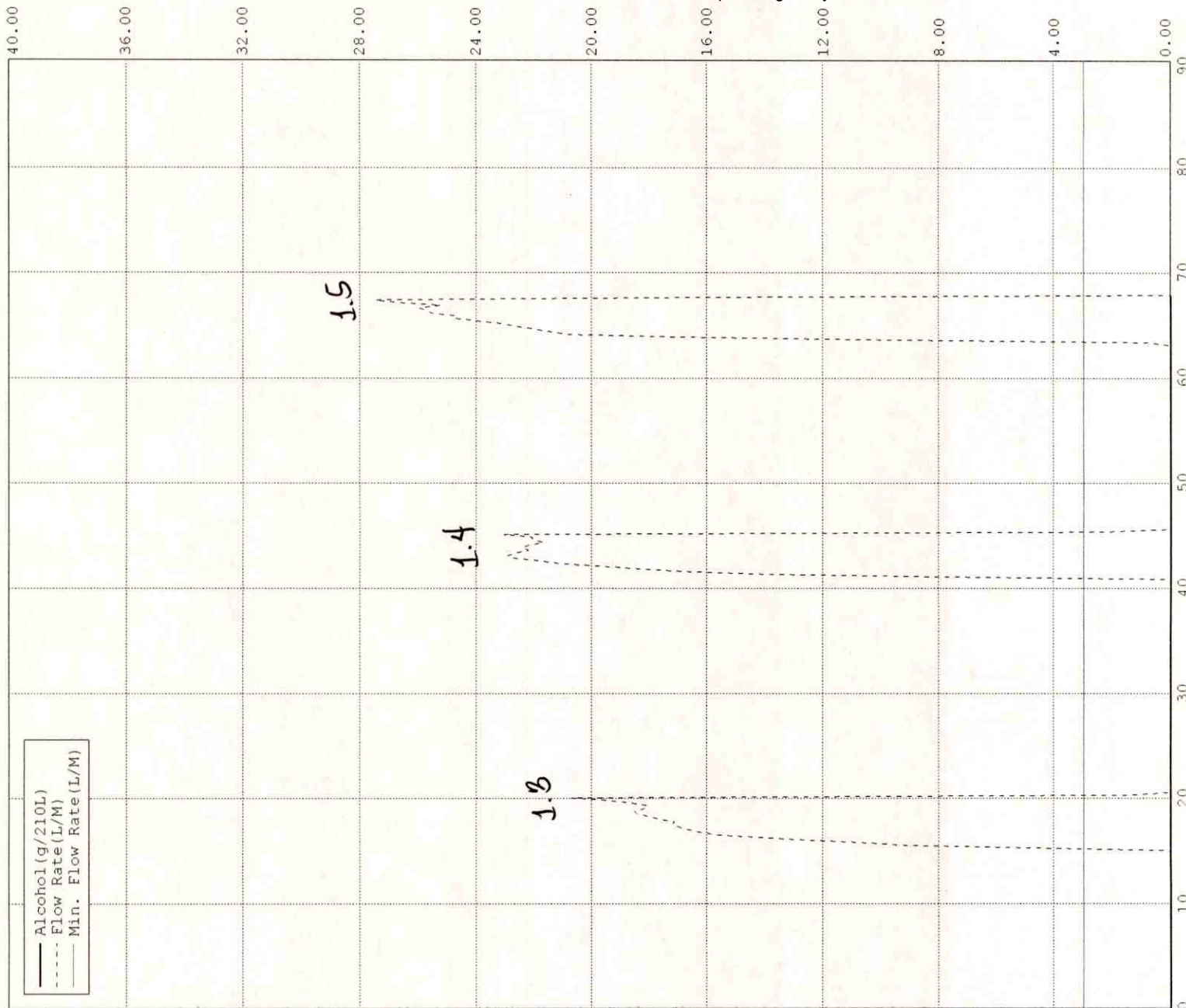
CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100678

Date: 10/12/2021
Time: 14:10:04

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 0.989964 0.800 <= CAL < 1.200
b1 = 0.0009 0.0000 <= b1 < 0.0040
b2 = 0.0042 0.0010 <= b2 < 0.0100
b3 = 0.0012 0.0000 <= b3 < 0.0040
Xq = 0.0798 0.0500 <= Xq < 0.2000
a21 = 1.102522 1.050 <= a21 < 1.300
a31 = 0.457025 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100678

Date: ~~06/09/2019~~ 07/14/2022 TAL 07/15/22
 Time: 20:26:51

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

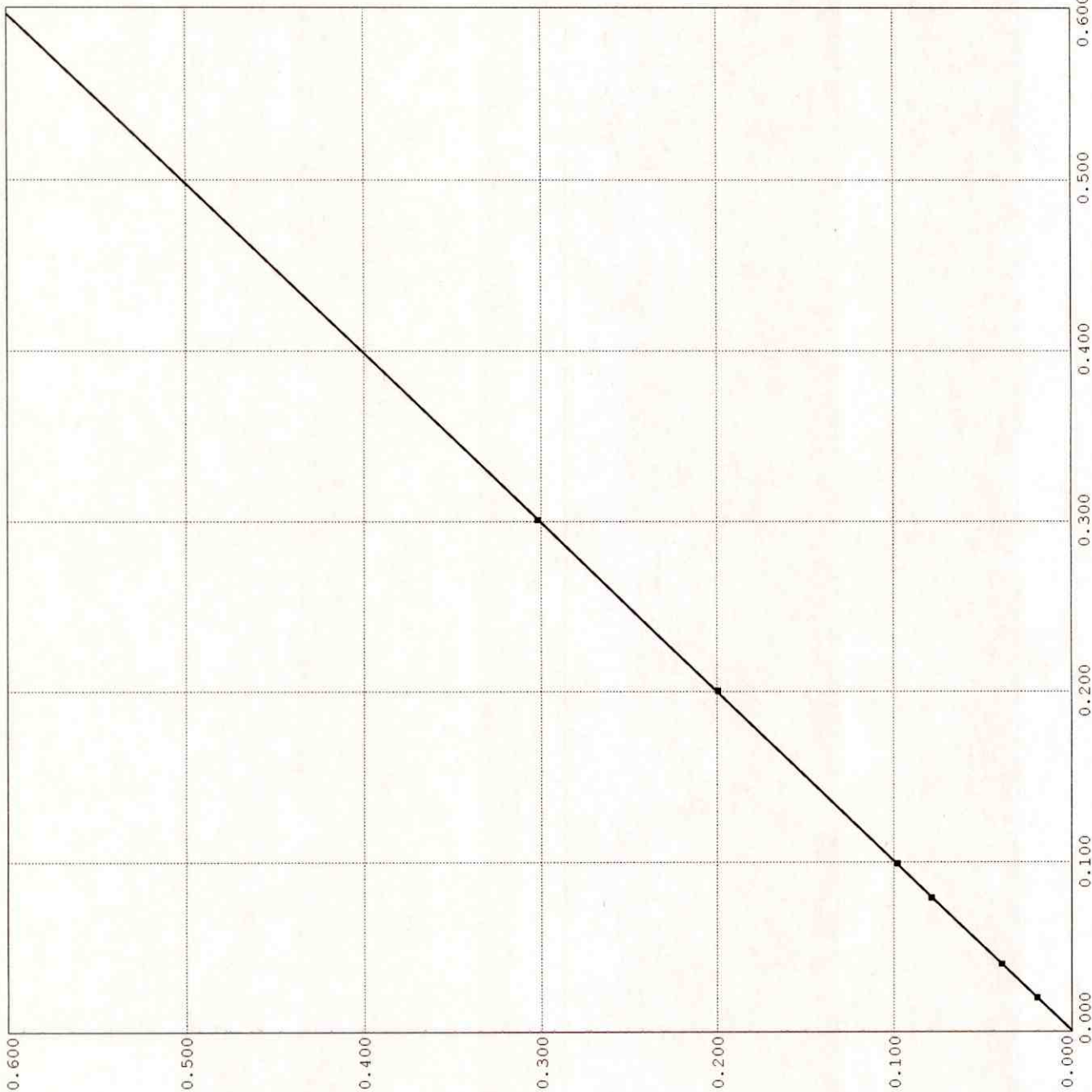
DEPT/AGENCY: *minimum volume test*
 XXX
 CASE/REPORT: XXX
 TEST TYPE: TEST
 TAL 07/14/22

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK	PASSED	20:29
BLANK TEST	0.000	20:29
INTERNAL STANDARD	VERIFIED	20:29
EXTERNAL STANDARD	0.079	20:29
BLANK TEST	0.000	20:30
SUBJECT SAMPLE (Vol=1.60L)	0.000	20:31
BLANK TEST	0.000	20:32
EXTERNAL STANDARD	0.079	20:33
BLANK TEST	0.000	20:33

TAL



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: ~~08/09/2019~~ 07/14/22 TAL 07/15/22
 Time: 20:44:13

SUPERVISOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0400	0.0000
0.079	0.0798	0.0004
0.099	0.0990	0.0000
0.200	0.2002	0.0004
0.300	0.3026	0.0018

SLOPE = 1.007690
 R² = 0.999967

TAL

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

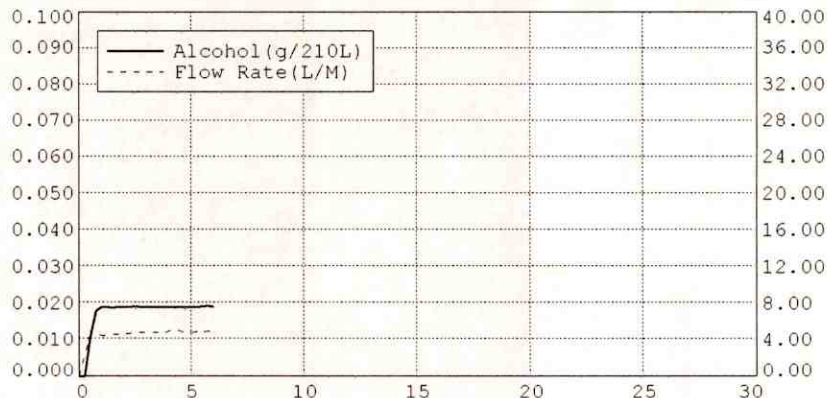
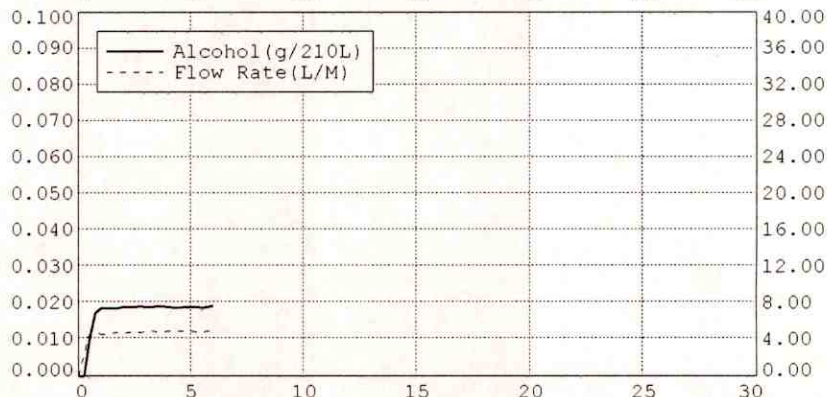
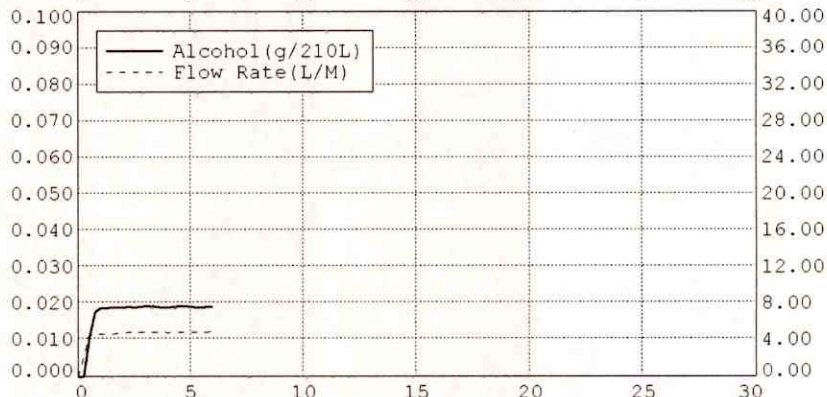
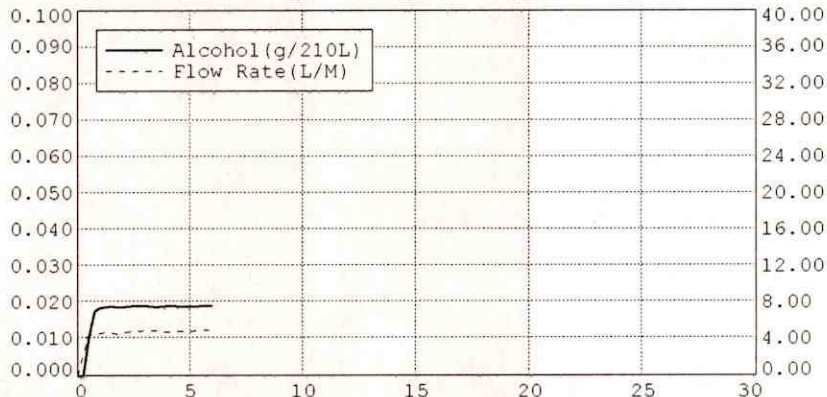
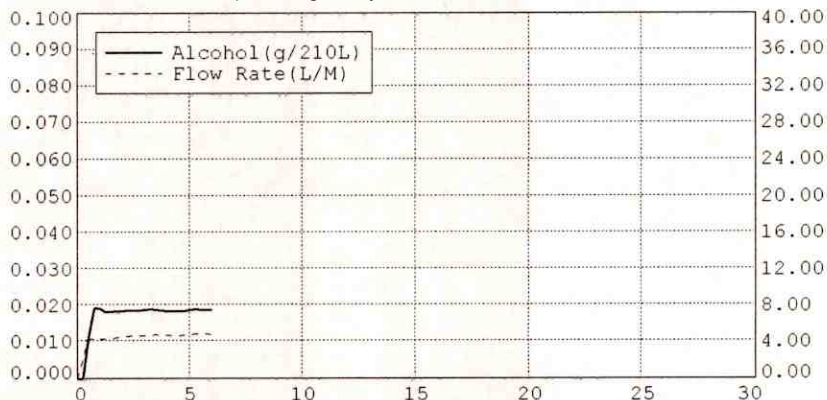
Date: ~~08/09/2019~~ 07/14/22 TAL 07/15/22
 Time: 20:44:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.61: 0.020
 LOT #: AG100401
 EXPIRATION: 01/04/2023
 TANK PRESSURE: 657 psi

BLANK TEST	0.000	20:46
INTERNAL STANDARD	VERIFIED	20:46
EXTERNAL STANDARD	0.020	20:46
BLANK TEST	0.000	20:47
EXTERNAL STANDARD	0.020	20:48
BLANK TEST	0.000	20:48
EXTERNAL STANDARD	0.020	20:49
BLANK TEST	0.000	20:50
EXTERNAL STANDARD	0.020	20:50
BLANK TEST	0.000	20:51
EXTERNAL STANDARD	0.020	20:51
BLANK TEST	0.000	20:52

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

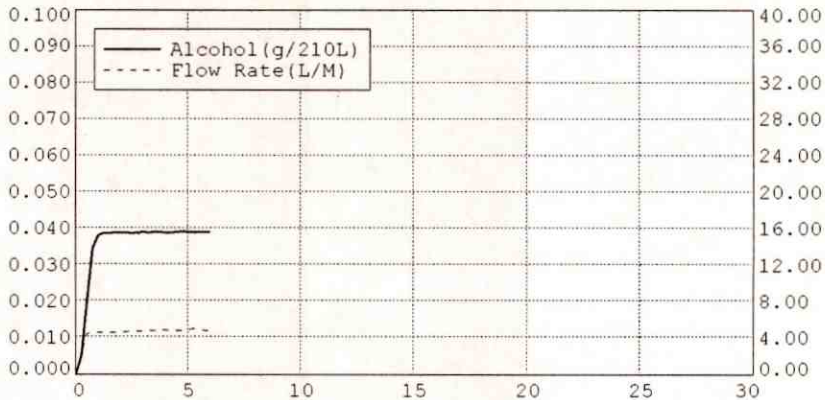
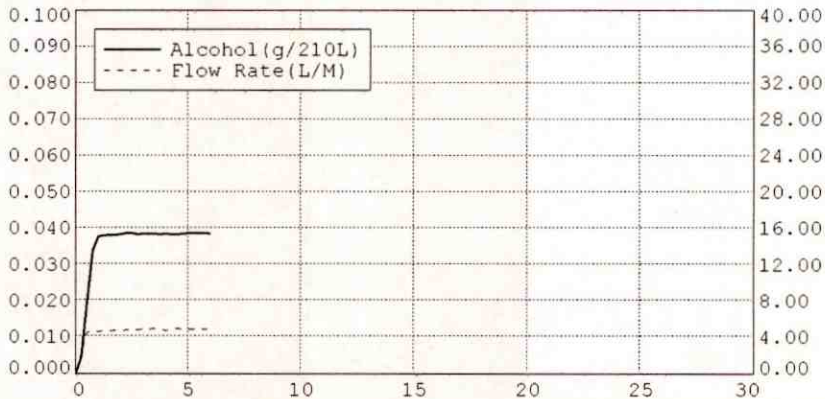
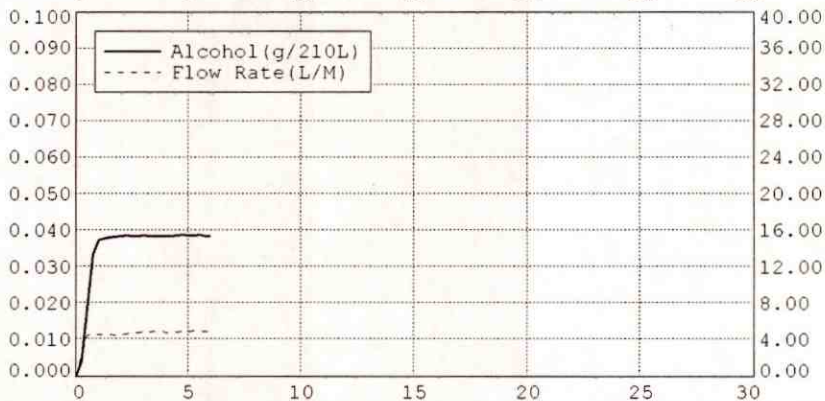
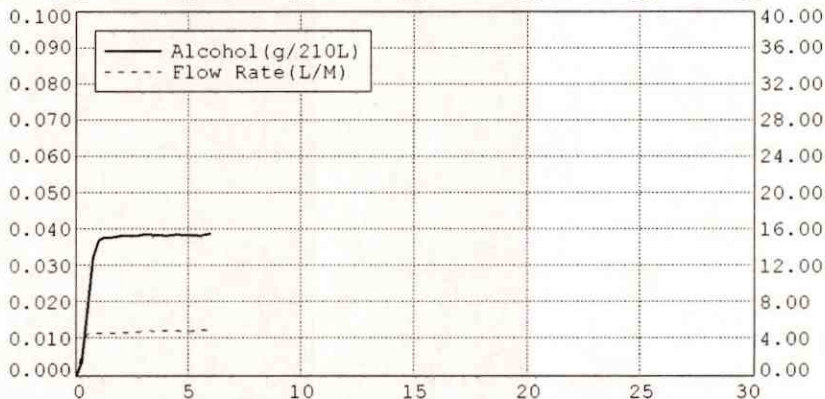
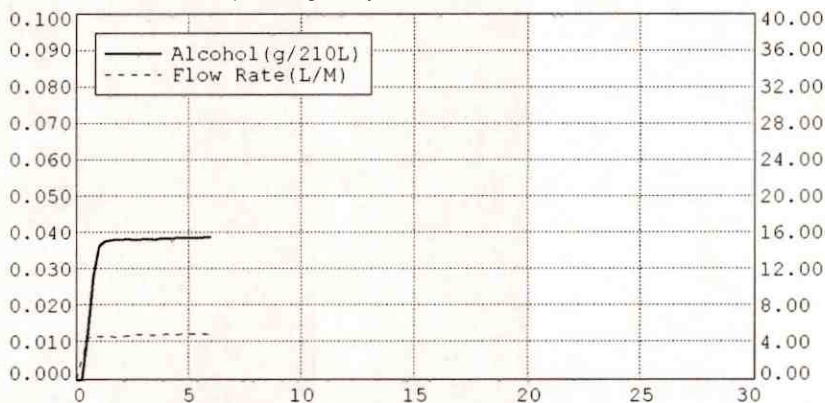
Date: ~~08/09/2019~~ 07/14/22 TAL 07/15/22
 Time: 20:54:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.62: 0.040
 LOT #: AG111710
 EXPIRATION: 04/27/2023
 TANK PRESSURE: 631 psi

BLANK TEST	0.000	20:55
INTERNAL STANDARD	VERIFIED	20:55
EXTERNAL STANDARD	0.040	20:55
BLANK TEST	0.000	20:56
EXTERNAL STANDARD	0.040	20:57
BLANK TEST	0.000	20:57
EXTERNAL STANDARD	0.040	20:58
BLANK TEST	0.000	20:59
EXTERNAL STANDARD	0.040	20:59
BLANK TEST	0.000	21:00
EXTERNAL STANDARD	0.040	21:00
BLANK TEST	0.000	21:01

Average = 0.0400
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

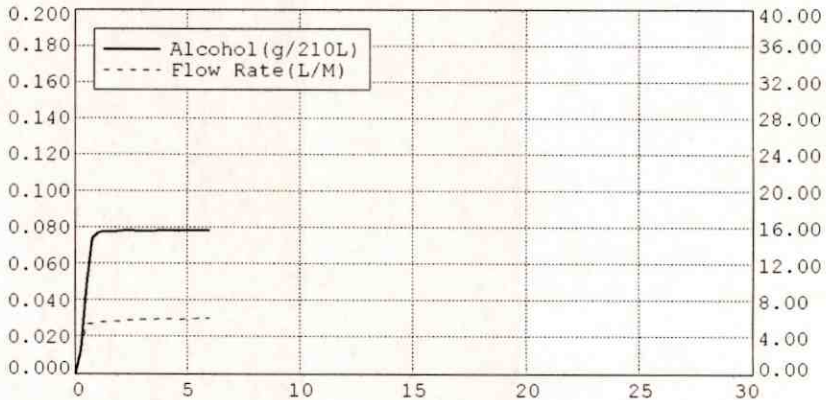
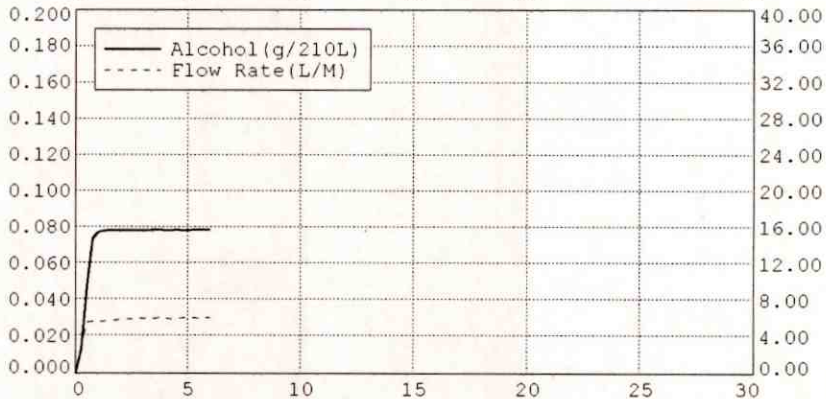
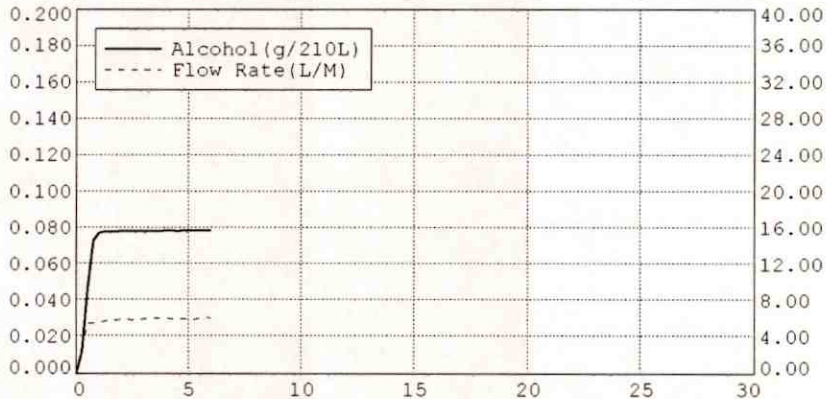
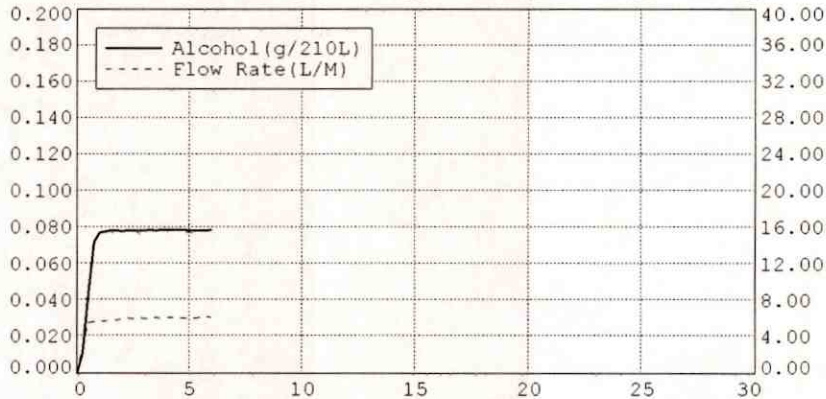
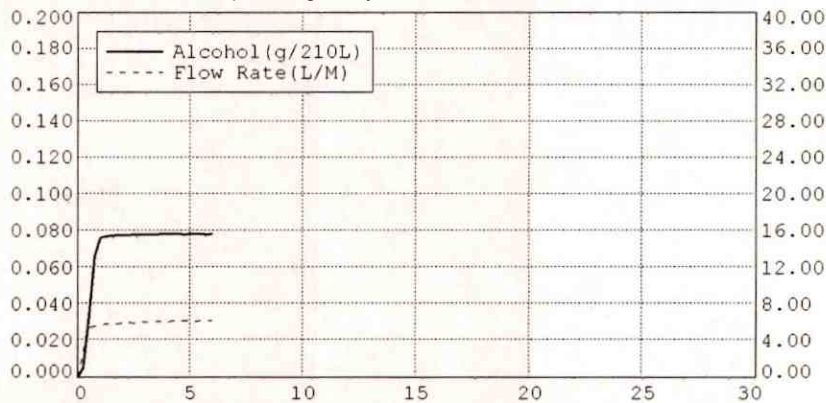
Date: ~~08/09/2019~~ 07/14/22 TAL 07/15/22
 Time: 21:01:44

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.62: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023
 TANK PRESSURE: 1198 psi

BLANK TEST	0.000	21:03
INTERNAL STANDARD	VERIFIED	21:03
EXTERNAL STANDARD	0.079	21:03
BLANK TEST	0.000	21:04
EXTERNAL STANDARD	0.080	21:04
BLANK TEST	0.000	21:05
EXTERNAL STANDARD	0.080	21:05
BLANK TEST	0.000	21:06
EXTERNAL STANDARD	0.080	21:06
BLANK TEST	0.000	21:07
EXTERNAL STANDARD	0.080	21:07
BLANK TEST	0.000	21:08

Average = 0.0798
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

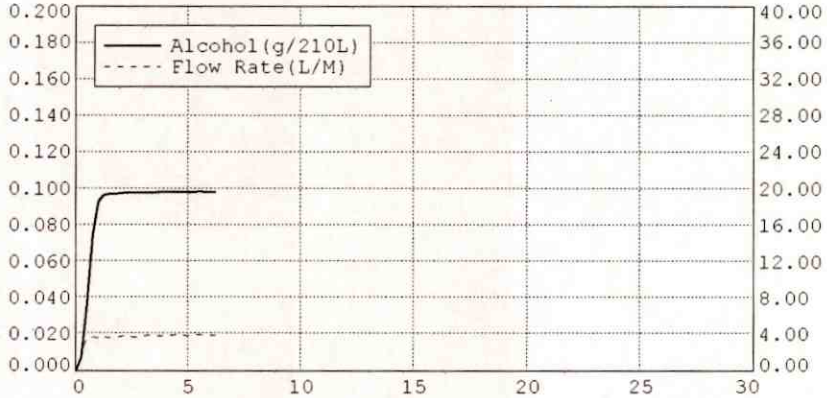
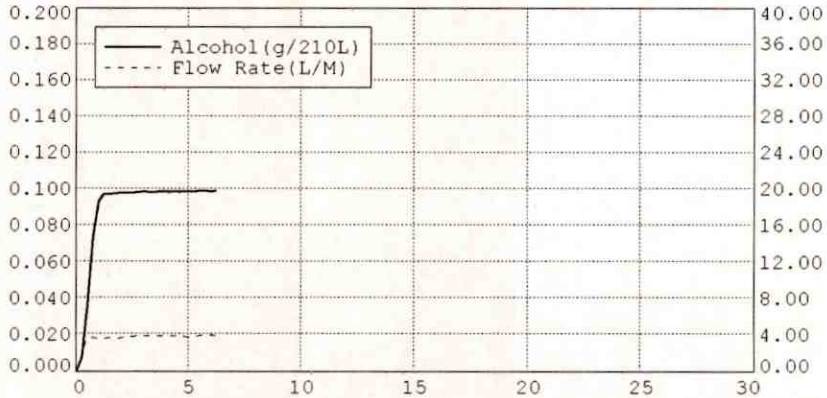
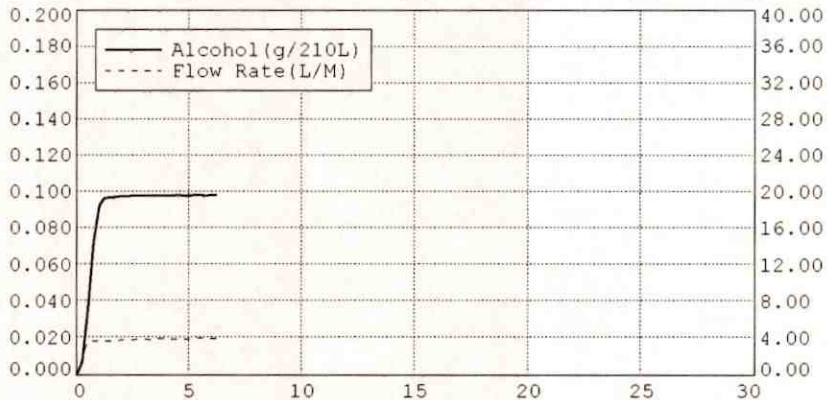
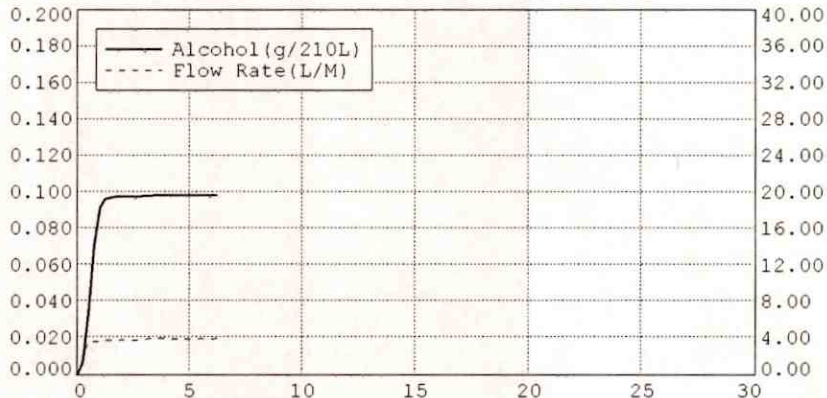
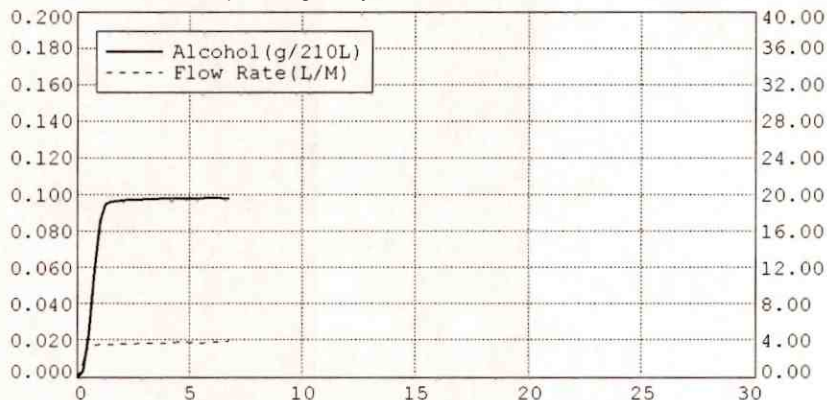
Date: 08/09/2019 07/14/22 TAL 07/15/22
 Time: 21:09:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.62: 0.099
 LOT #: AG108404
 EXPIRATION: 03/25/2023
 TANK PRESSURE: 281 psi

BLANK TEST	0.000	21:11
INTERNAL STANDARD	VERIFIED	21:11
EXTERNAL STANDARD	0.099	21:11
BLANK TEST	0.000	21:12
EXTERNAL STANDARD	0.099	21:12
BLANK TEST	0.000	21:13
EXTERNAL STANDARD	0.099	21:13
BLANK TEST	0.000	21:14
EXTERNAL STANDARD	0.099	21:14
BLANK TEST	0.000	21:15
EXTERNAL STANDARD	0.099	21:15
BLANK TEST	0.000	21:16

Average = 0.0990
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

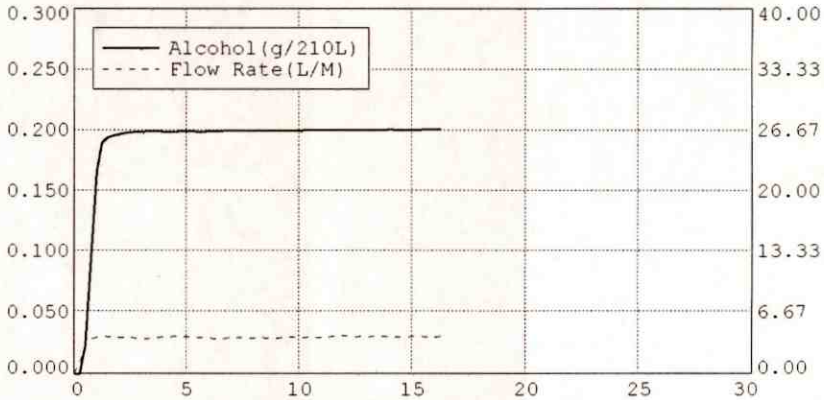
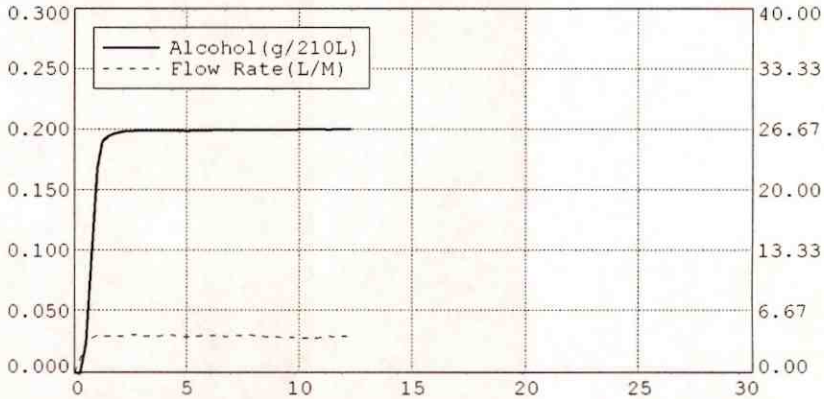
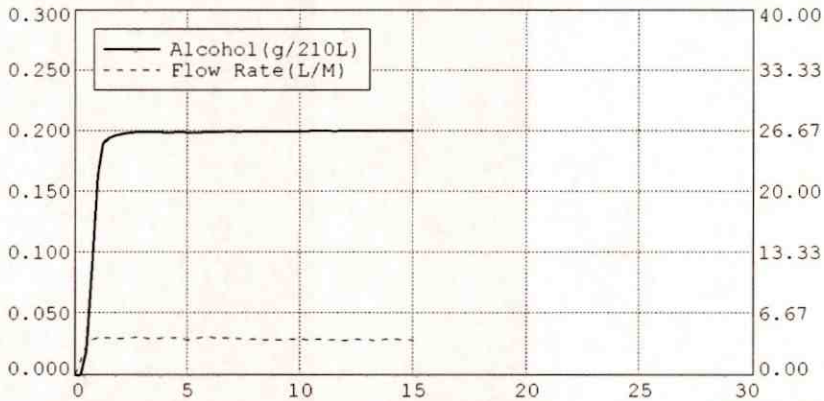
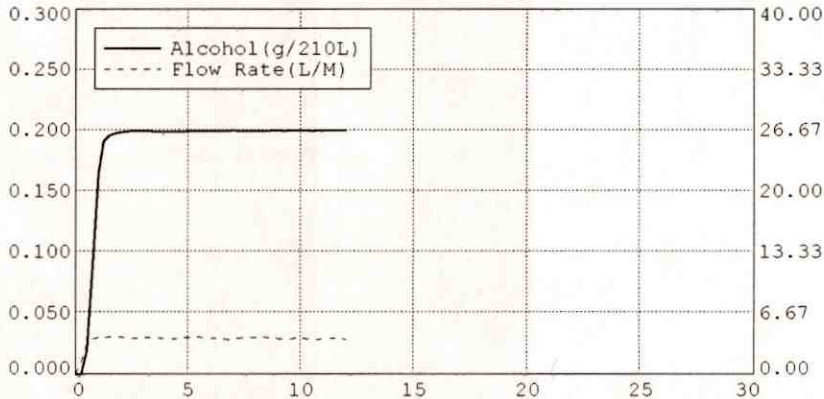
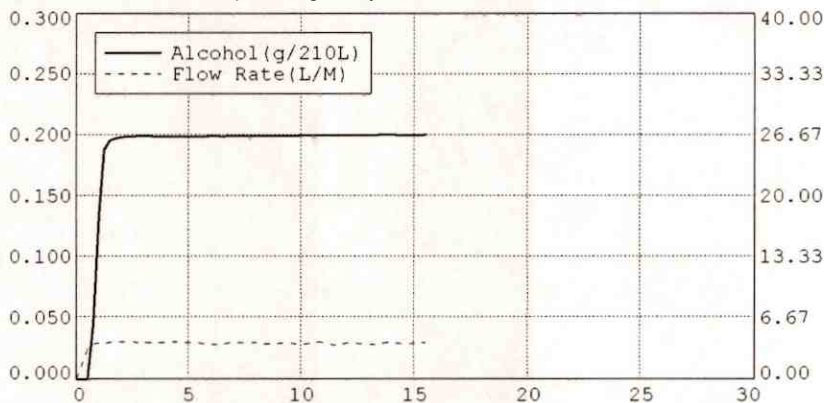
Date: ~~08/09/2019~~ 07/14/22 TAL 07/15/22
 Time: 21:26:26

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	21:27
INTERNAL STANDARD	VERIFIED	21:27
EXTERNAL STANDARD	0.200	21:28
BLANK TEST	0.000	21:28
EXTERNAL STANDARD	0.200	21:29
BLANK TEST	0.000	21:30
EXTERNAL STANDARD	0.200	21:30
BLANK TEST	0.000	21:31
EXTERNAL STANDARD	0.200	21:31
BLANK TEST	0.000	21:32
EXTERNAL STANDARD	0.201	21:33
BLANK TEST	0.000	21:33

Average = 0.2002
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

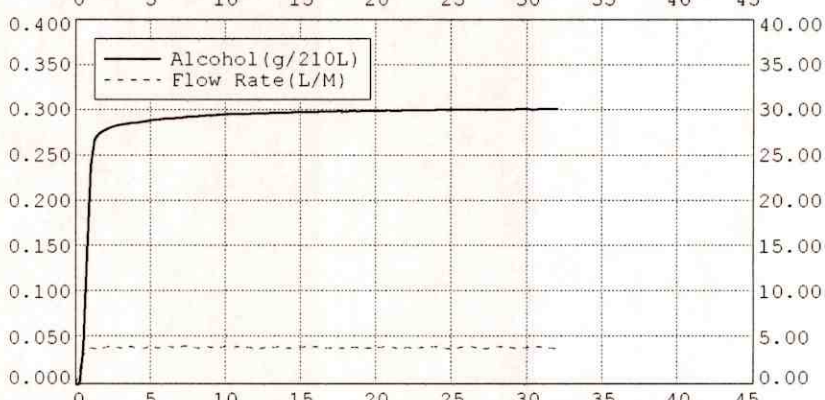
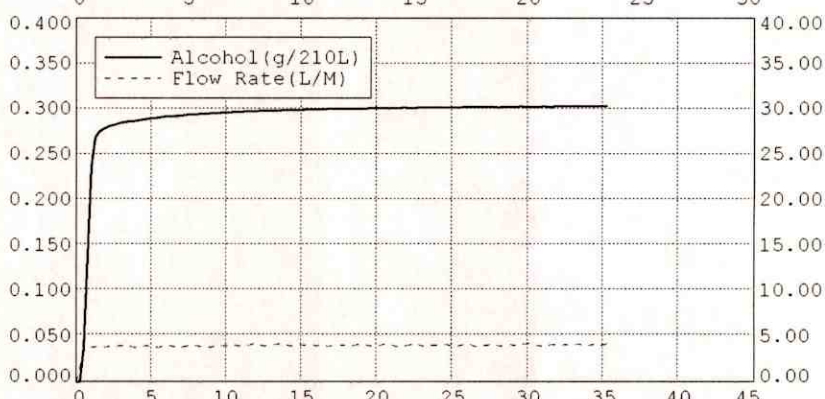
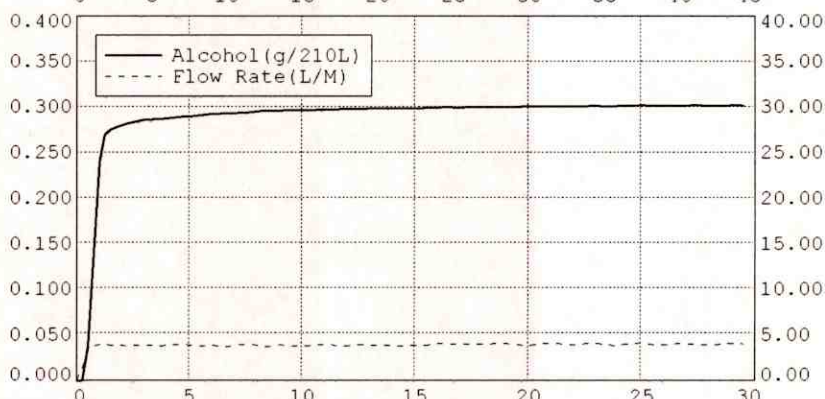
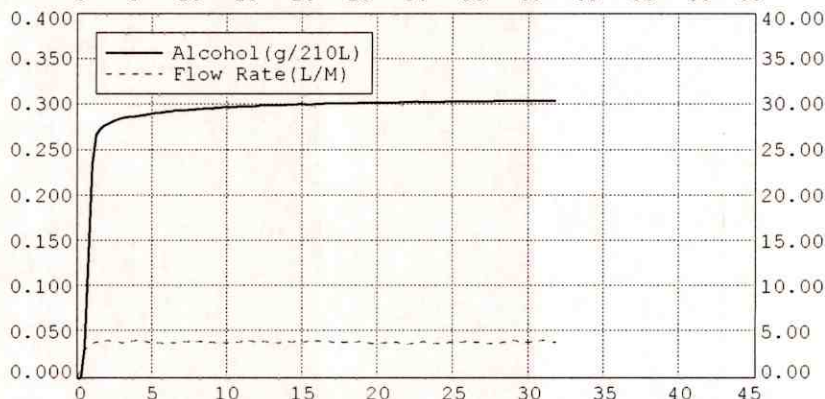
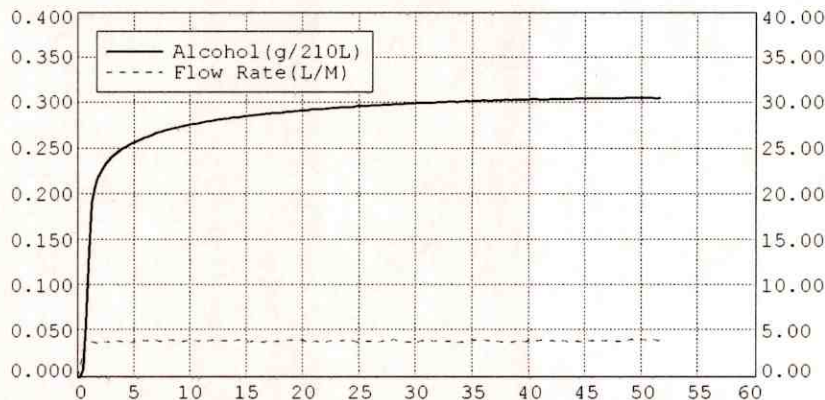
Date: 08/09/2019 07/14/22 TAL 07/15/22
 Time: 21:35:15

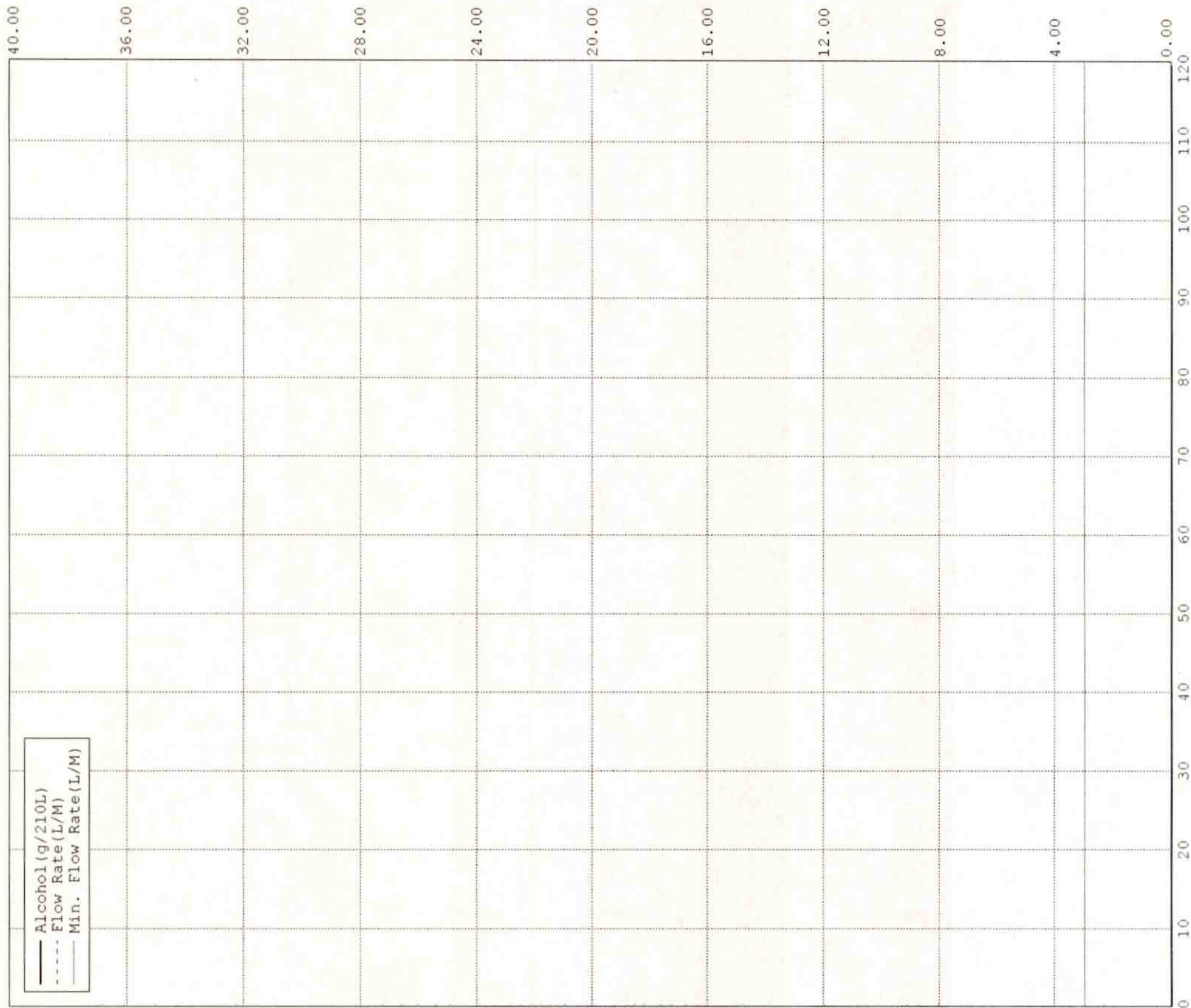
EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	21:36
INTERNAL STANDARD	VERIFIED	21:36
EXTERNAL STANDARD	0.305	21:37
BLANK TEST	0.000	21:38
EXTERNAL STANDARD	0.304	21:39
BLANK TEST	0.000	21:40
EXTERNAL STANDARD	0.301	21:40
BLANK TEST	0.000	21:41
EXTERNAL STANDARD	0.302	21:42
BLANK TEST	0.000	21:43
EXTERNAL STANDARD	0.301	21:43
BLANK TEST	0.000	21:44

Average = 0.3026
 Std Dev = 0.0018





SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: ~~08/09/2019~~ 07/14/2022 TAU 07/15/2022
 Time: 21:53:49

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

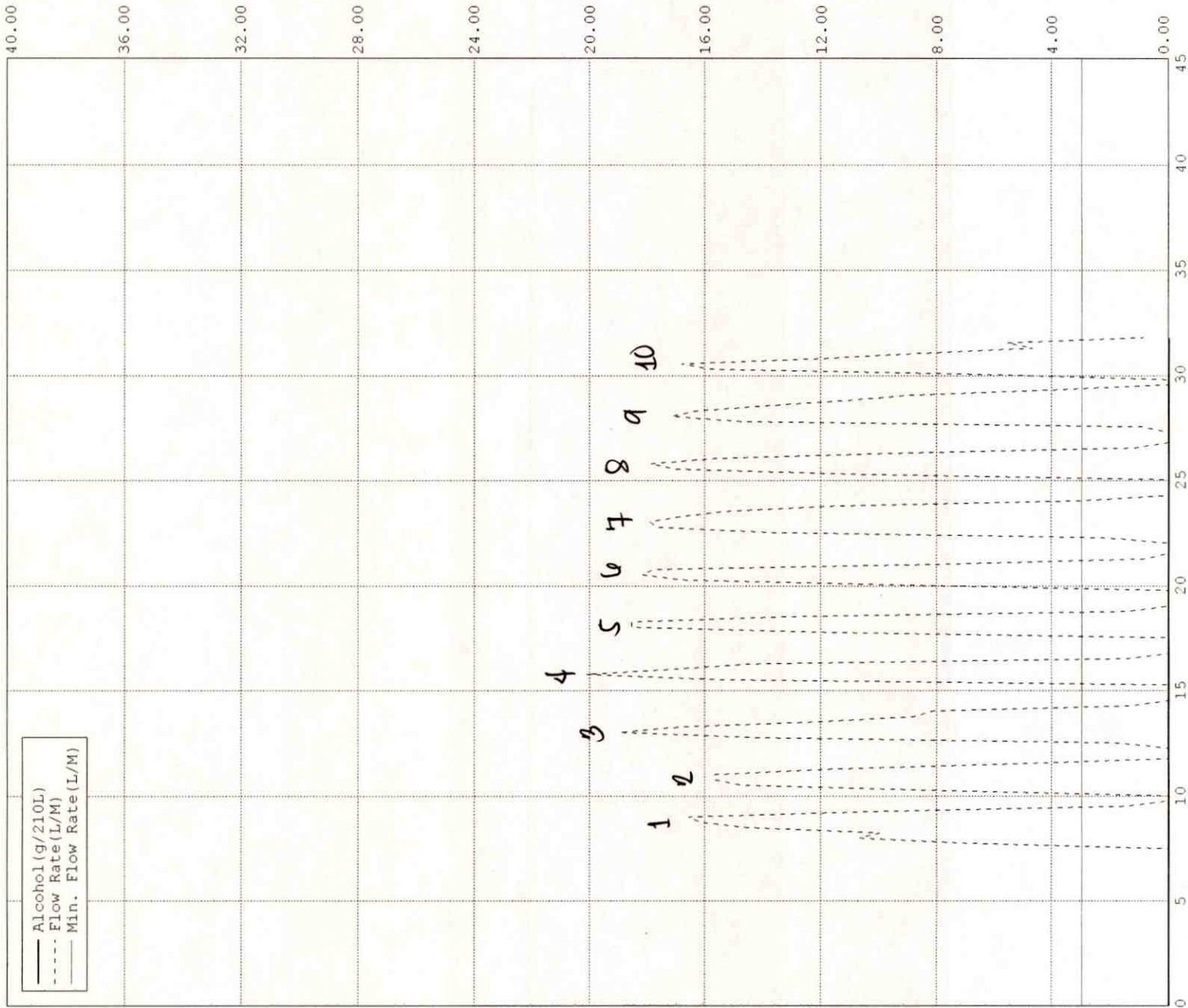
OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

DEPT/AGENCY: incomplete test
 XXX TAU 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	21:54
BLANK TEST	0.000	21:55
INTERNAL STANDARD	VERIFIED	21:55
EXTERNAL STANDARD	0.079	21:55
BLANK TEST	0.000	21:56
SUBJECT SAMPLE	INCOMPLETE	21:58

TAU



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: 08/09/2019 07/14/22 TAL 07/15/22
 Time: 22:05:40

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

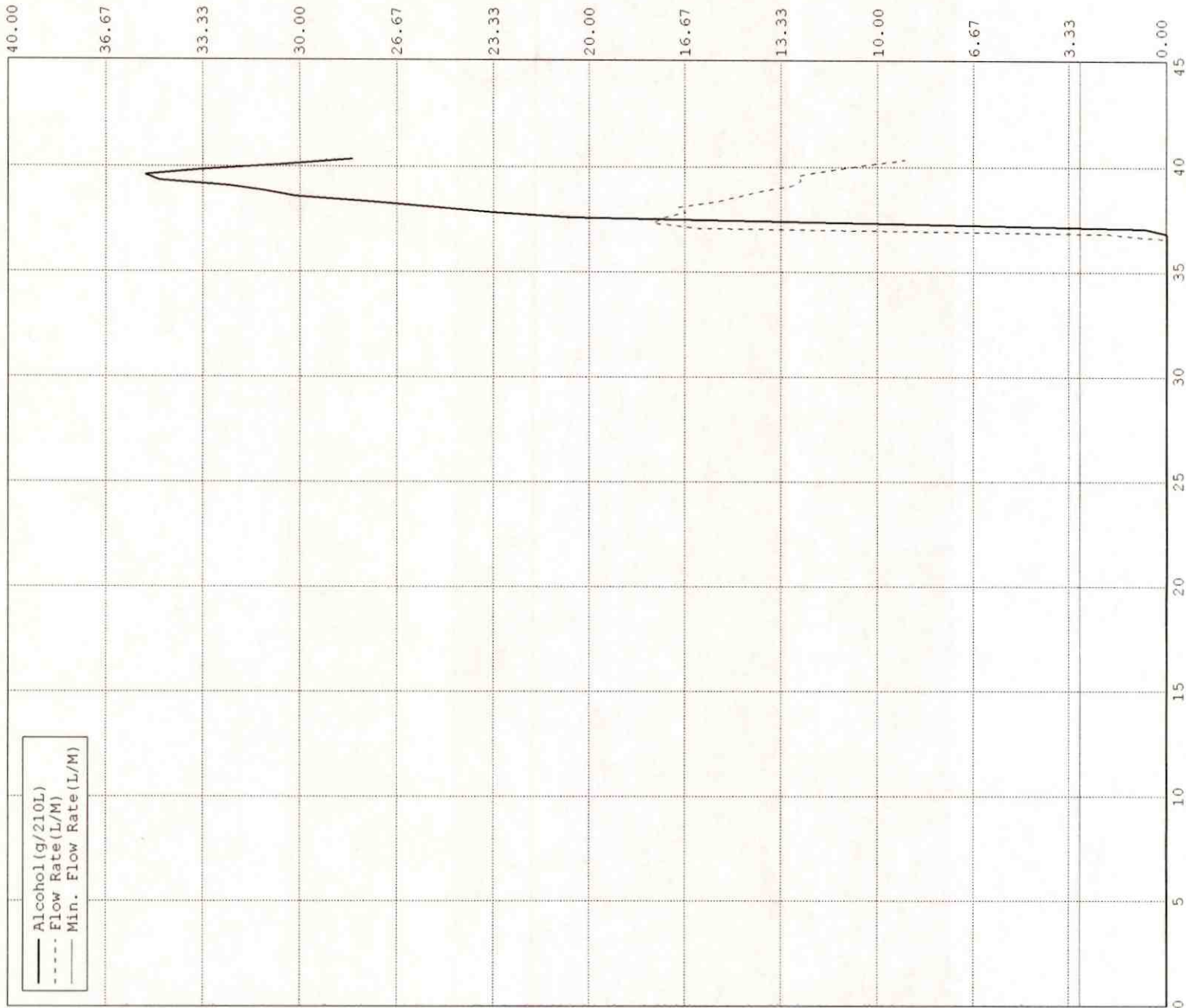
DEPT/AGENCY: Maximum Attempts Exceeded
 XXX
 CASE/REPORT: XXX
 TEST TYPE: TEST

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

DIAGNOSTIC CHECK PASSED 22:07
 BLANK TEST 0.000 22:07
 INTERNAL STANDARD VERIFIED 22:07
 EXTERNAL STANDARD 0.079 22:07
 BLANK TEST 0.000 22:08
 SUBJECT SAMPLE XXX 22:09

Maximum Attempts Exceeded

TAL



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: 08/10/2019 07/14/22 TAL 07/15/22
 Time: 00:43:23

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

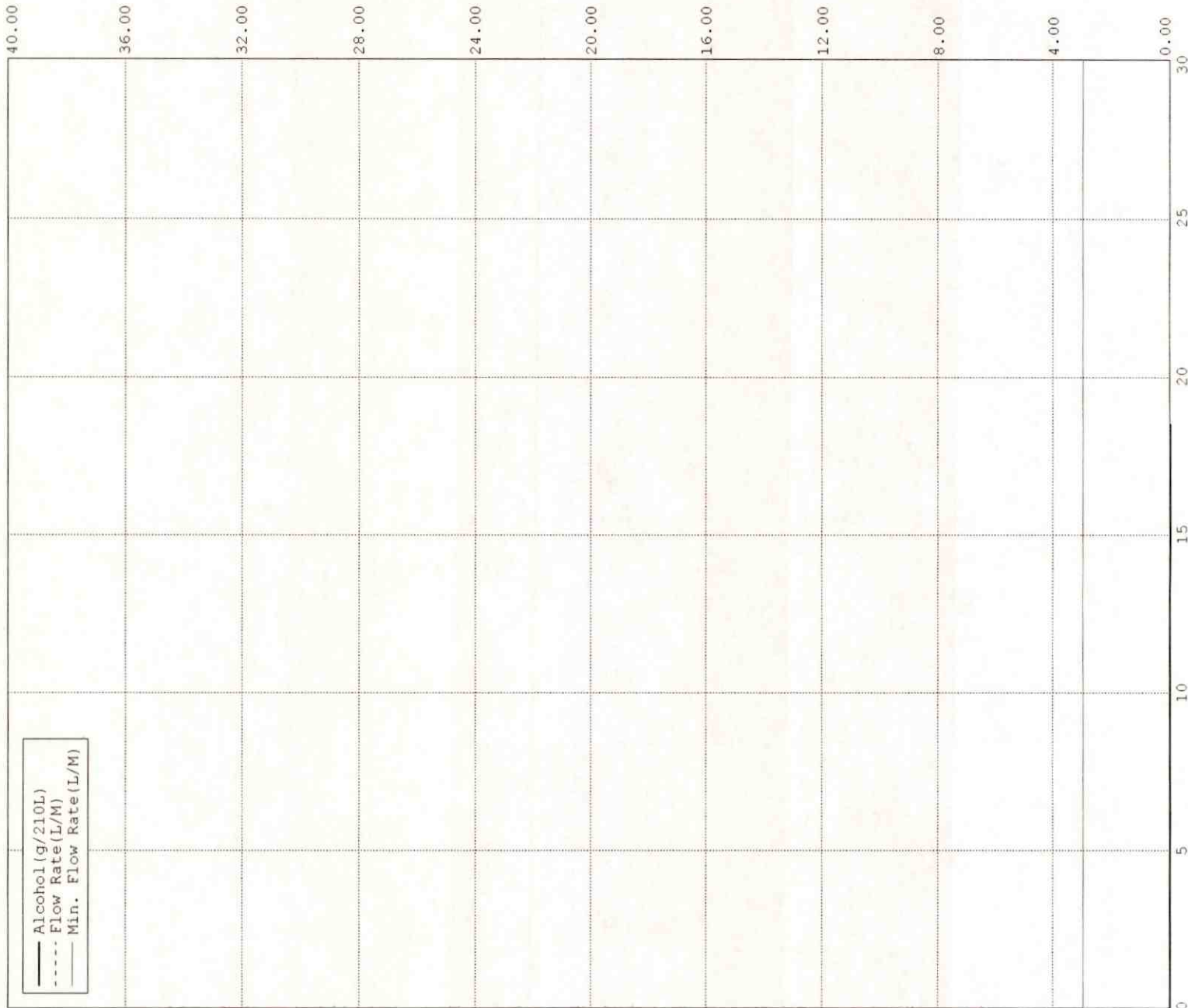
DEPT/AGENCY: invalid test
 XXX TAL 07/14/22
 CASE/REPORT: XXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.61: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	00:44
BLANK TEST	0.000	00:44
INTERNAL STANDARD	VERIFIED	00:44
EXTERNAL STANDARD	0.079	00:44
BLANK TEST	0.000	00:45
SUBJECT SAMPLE	INVALID	00:46

TAL



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: ~~08/10/2019~~ 07/14/22 TAL 07/15/22
 Time: 01:01:11

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

DEPT/AGENCY:

RFI
 CASE/REPORT: XXX
 TEST TYPE: TEST

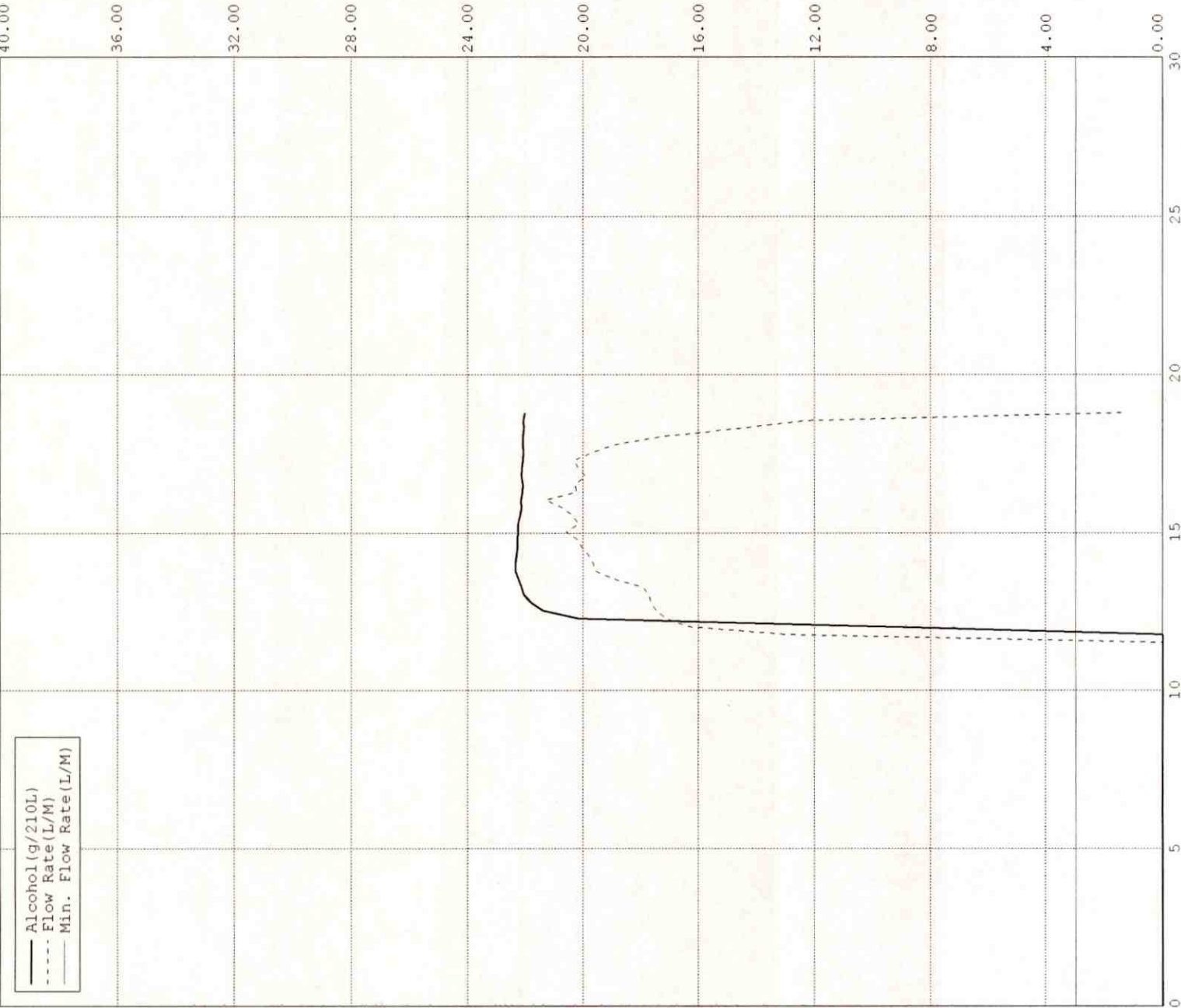
EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK PASSED 01:02
 BLANK TEST 0.000 01:02
 INTERNAL STANDARD VERIFIED 01:02
 EXTERNAL STANDARD 0.079 01:02
 BLANK TEST 0.000 01:03

RFI DETECTED

TAL



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: 06/10/2019 07/14/22 TAL 07/15/22
 Time: 01:40:04

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

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

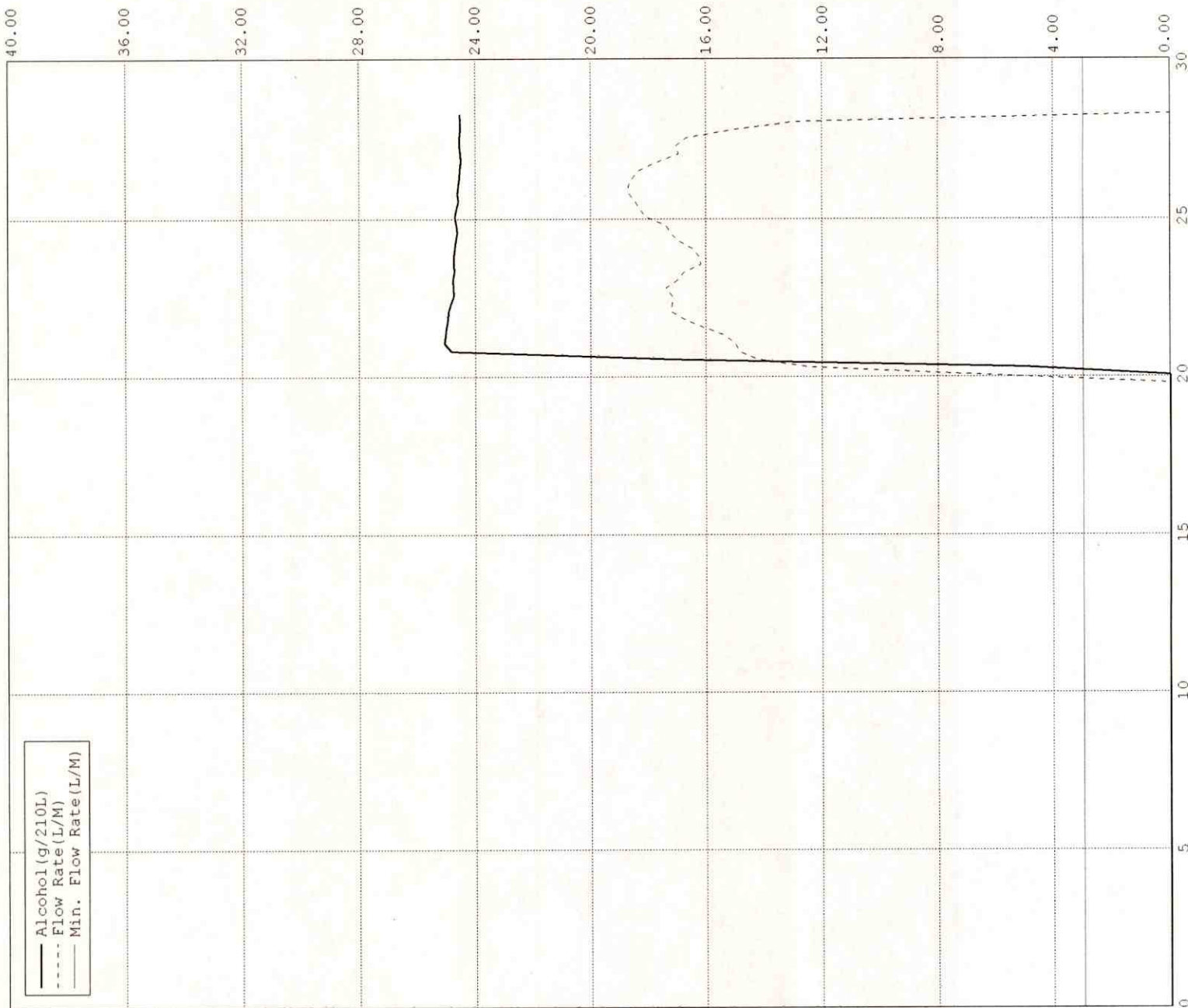
EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.63: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 01:41
 BLANK TEST 0.000 01:41
 INTERNAL STANDARD VERIFIED 01:41
 Xq = 0.081 (0.87%)
 EXTERNAL STANDARD 0.079 01:41
 X[1] = 0.0794 (0.0000) (0.0011)
 BLANK TEST 0.000 01:42
 SUBJECT SAMPLE XXX 01:42
 X[1] = 0.1106 (-0.0134) (0.0030)

Interference Detected

FILTER 2 AVG: 0.0004
 FILTER 3 AVG: 0.0019
 TAL 07/15/22

TAL



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: 08/10/2019 ~~07/14/22~~ TAI 07/15/22
 Time: 01:27:44

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

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

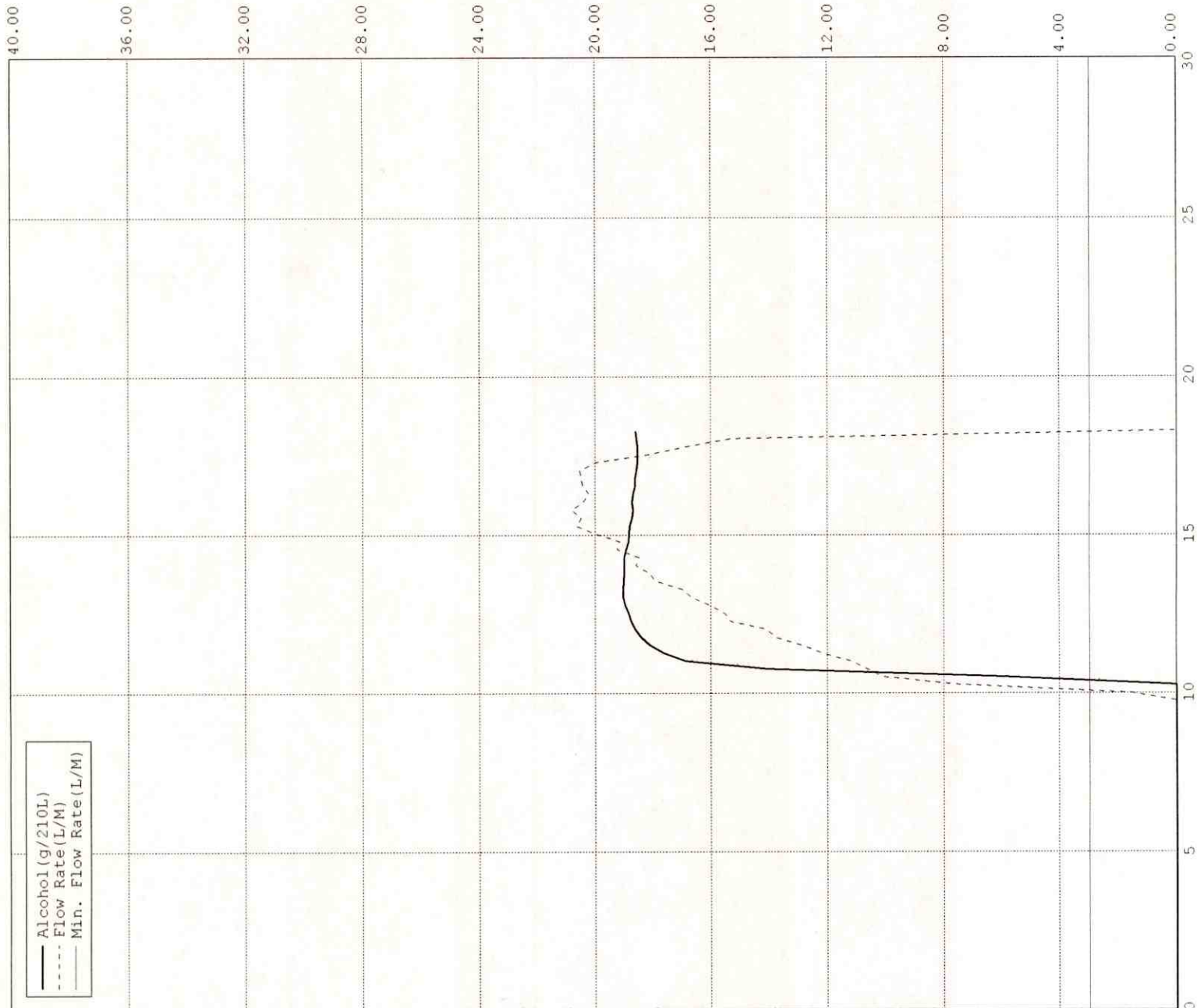
EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK	PASSED	01:28
BLANK TEST	0.000	01:28
INTERNAL STANDARD	VERIFIED	01:28
Xq = 0.080 (0.33%)		
EXTERNAL STANDARD	0.079	01:29
X[1] = 0.0790 (0.0000) (0.0025)		
BLANK TEST	0.000	01:30
SUBJECT SAMPLE	XXX	01:30
X[1] = 0.1230 (-0.0215) (0.0026)		

Interference Detected

TL



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100678
 Date: 08/10/2019 07/14/22 TA 07/15/22
 Time: 01:33:48

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

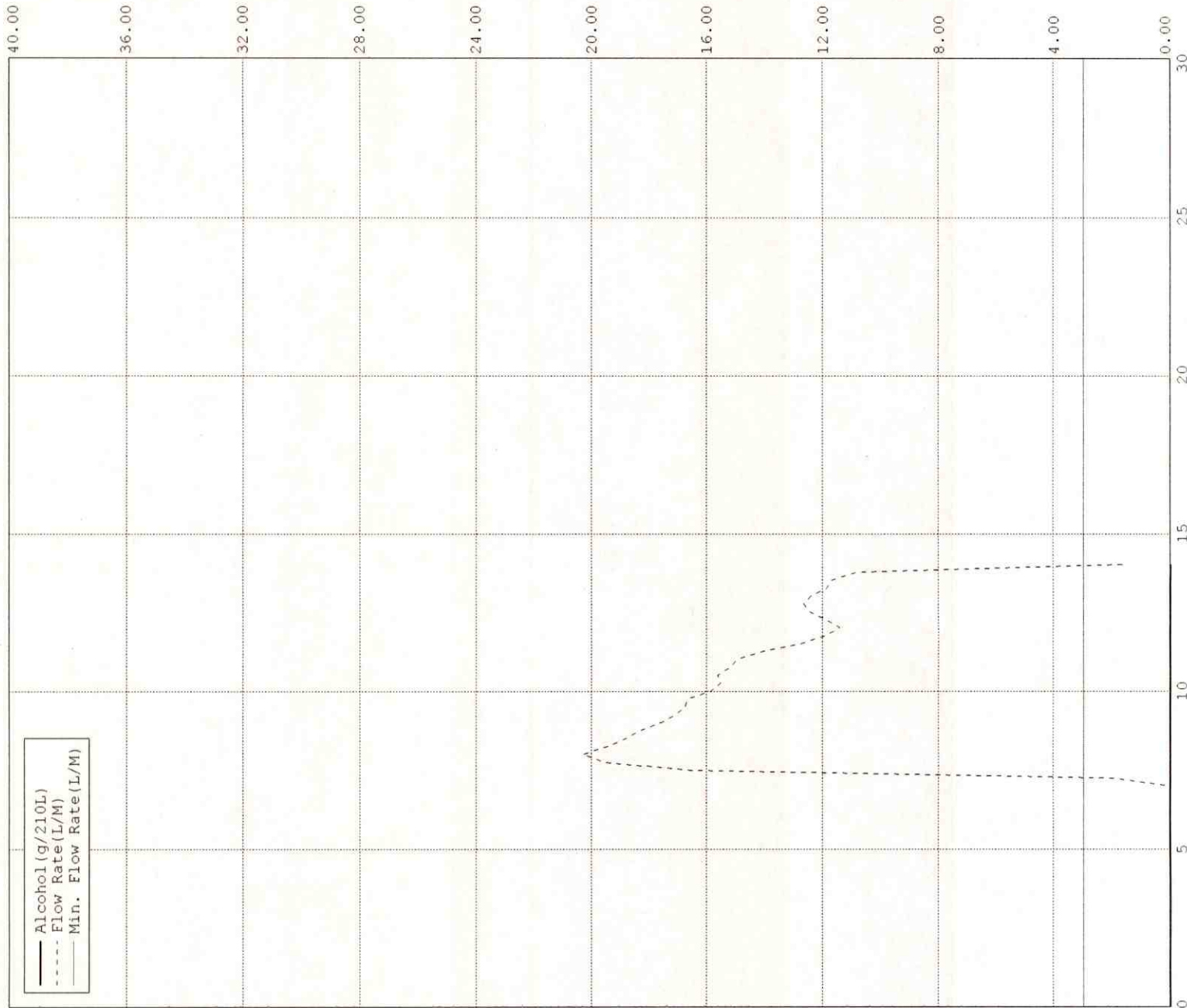
OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.61: 0.079
 LOT #: AG113402
 EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	01:34
BLANK TEST	0.000	01:34
INTERNAL STANDARD	VERIFIED	01:35
Xq = 0.081 (0.87%)		
EXTERNAL STANDARD	0.079	01:35
X[1] = 0.0795 (0.0010) (0.0019)		
BLANK TEST	0.000	01:36
SUBJECT SAMPLE (Vol=2.25L)	0.093	01:36
X[1] = 0.0933 (0.0012) (0.0007)		
BLANK TEST	0.000	01:37
EXTERNAL STANDARD	0.079	01:37
X[1] = 0.0793 (0.0004) (0.0020)		
BLANK TEST	0.000	01:38

TA



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100678

Date: 07/14/2022 07/14/22 TAL 07/15/22
 Time: 14:18:15

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXX

OPERATOR NAME:
 TATIANA LEE
 OPERATOR'S #: 10437

DEPT/AGENCY:
 NON-DRINKING SUBJECT TEST
 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	14:19
BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:19
EXTERNAL STANDARD	0.080	14:19
BLANK TEST	0.000	14:20
SUBJECT SAMPLE (Vol=1.64L)	0.000	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.080	14:22
BLANK TEST	0.000	14:22

TAL