

# Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100u95

Analyst: Carlie Glaister  
Tatiana Lee

Start Date: 02/25/22

- Diagnostic Test (attached)
- Adjust voltages, if needed
  - Lamp (2.6V Maximum)
  - Bias
  - 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 1.6 L (1.3L to 1.7L)

- Internal Standard value  $\leq$  3.00%
- Chopper Frequency
- Detector Voltage (-0.100V to 0.100V)

Linearity Test (attached)

0.020g/210L Mnf: Airgas Lot: AG100401 Exp: 1/4/2023  
 0.040g/210L Mnf: Airgas Lot: AG111710 Exp: 4/27/2023  
 0.080g/210L Mnf: Airgas Lot: AG113402 Exp: 5/17/2023  
 0.100g/210L Mnf: Airgas Lot: AG108404 Exp: 3/25/2023  
 0.200g/210L Mnf: Guth Lot: 20510 Exp: 12/3/2022  
 Simulator S/N: DR4161 Date Calibrated: 6/16/2021  
 0.300g/210L Mnf: Guth Lot: 21030 Exp: 2/2/2023  
 Simulator S/N: SD1202 Date Calibrated: 6/15/2021

Functional Tests (attached)

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

Acetone Mnf: Lifeloc Lot: 210P41158 Level: 0.100 Exp: 4/29/2023  
 Simulator S/N: SD1177 Date Calibrated: 6/15/2021  
 Isopropanol Mnf: Lifeloc Lot: 210P41158 Level: 0.100 Exp: 04/29/2023  
 Simulator S/N: SD1198 Date Calibrated: 6/15/2021  
 Neg. Control Mnf: Lifeloc Lot: 210P41172 Level: 0.100 Exp: 1/19/23  
 Simulator S/N: SD1088 Date Calibrated: 6/15/2021

- 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: 2/25/2022

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100695  
-----

Date: 02/25/2022  
Time: 09:15:53

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 48.1°C PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.68 V PASSED  
(0.95 V - 2.23 V)  
Cooler Voltage = 1.71 V PASSED  
(0.95 V - 2.21 V)  
Bias Voltage = 80 V PASSED  
(49 V - 113 V)  
Chopper Freq = 569 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.227 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  
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.111 1.61% (0.00% - 4.00%) PASSED

Technician Screen

-----  
DATAMASTER dmt: 100695  
-----

Date: 02/25/2022

Time: 9:27 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 48.1°C

Current Barometer 29.3 in

Volume (Ltr) 1.53

Settings

Lamp: 1.79 V

Bias: 80 V

Cooler: 1.69 V

Chopper: 567 Hz

Voltages (V)

Flow: 1.04 V

Detector: -0.046 V

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100695  
-----

Date: 11/03/2011  
Time: 11:06:42

Ca = 0.1000  
CAL = 0.983513    0.800 <= CAL < 1.200  
b1 = 0.0004    0.0000 <= b1 < 0.0040  
b2 = 0.0038    0.0010 <= b2 < 0.0100  
b3 = 0.0001    0.0000 <= b3 < 0.0040  
Xq = 0.1092    0.0500 <= Xq < 0.2000  
a21 = 1.156617    1.050 <= a21 < 1.300  
a31 = 0.538073    0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100695

Date: 02/25/2022  
Time: 09:37:58

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

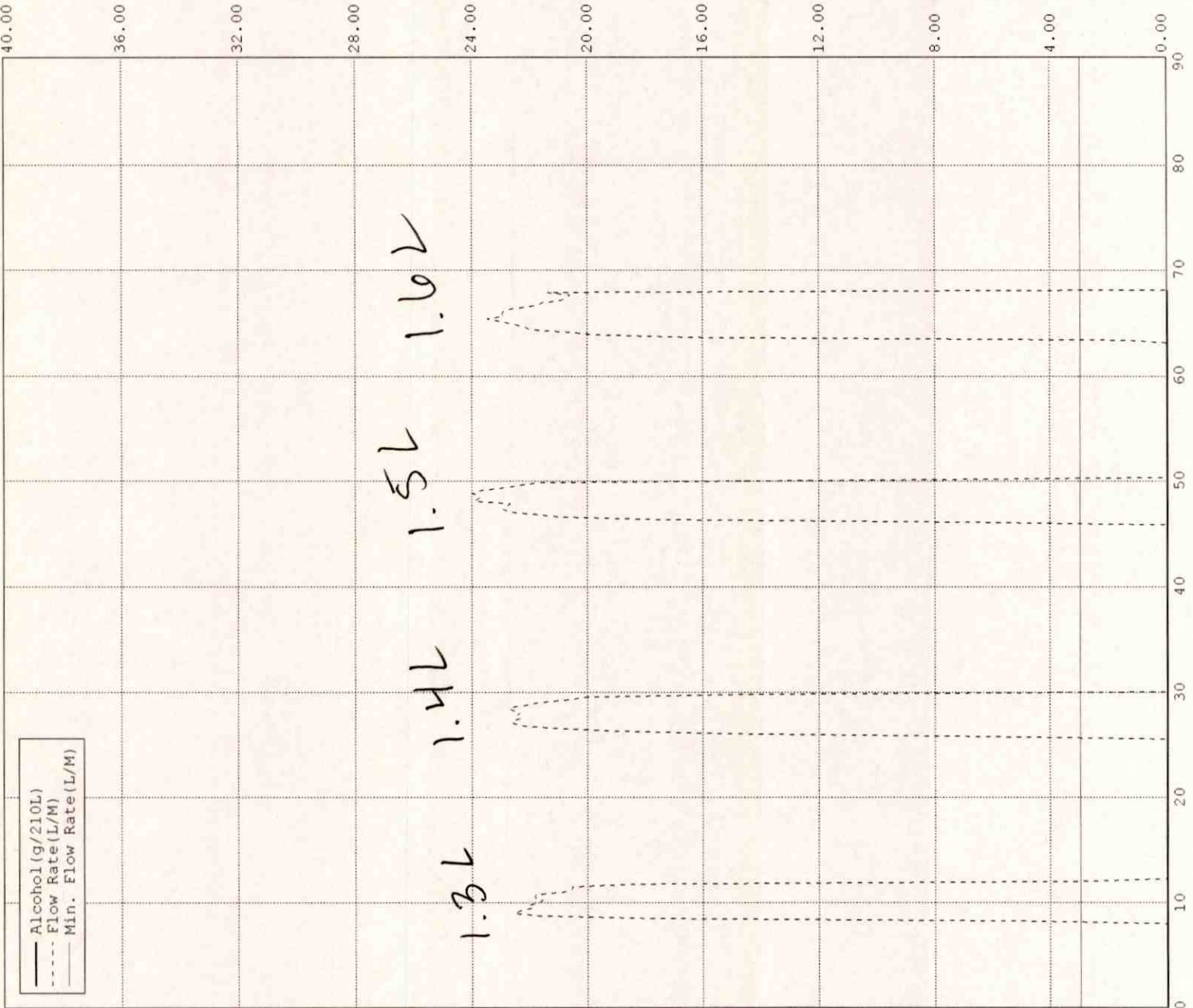
OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.28: 0.078  
LOT #: AG113402  
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	09:39
BLANK TEST	0.000	09:39
INTERNAL STANDARD	VERIFIED	09:39
EXTERNAL STANDARD	0.077	09:39
BLANK TEST	0.000	09:40
SUBJECT SAMPLE (Vol=1.62L)	0.000	09:41
BLANK TEST	0.000	09:42
EXTERNAL STANDARD	0.078	09:42
BLANK TEST	0.000	09:43

CVG



LINEARITY CHECK

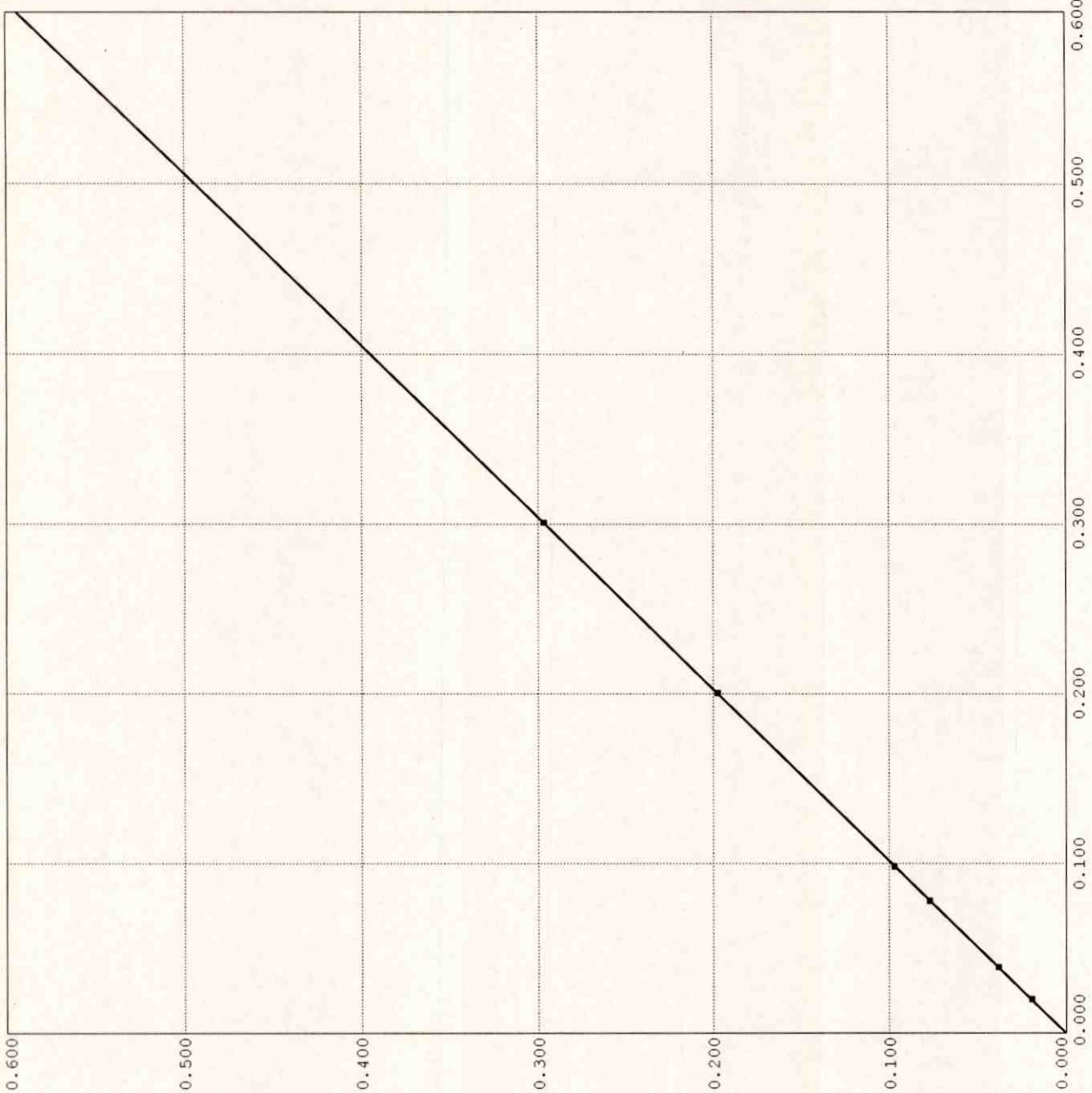
-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100695  
 -----

Date: 02/25/2022  
 Time: 09:58:19

SUPERVISOR NAME:  
 CARLIE GLAISTER  
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0390	0.0000
0.078	0.0780	0.0000
0.098	0.0980	0.0000
0.200	0.1982	0.0008
0.300	0.2974	0.0005

SLOPE = 0.989561  
 R<sup>2</sup> = 0.999991



*CKG*

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100695

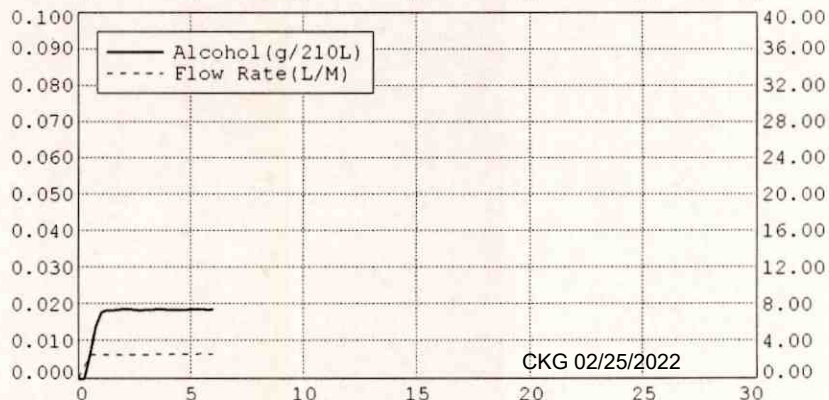
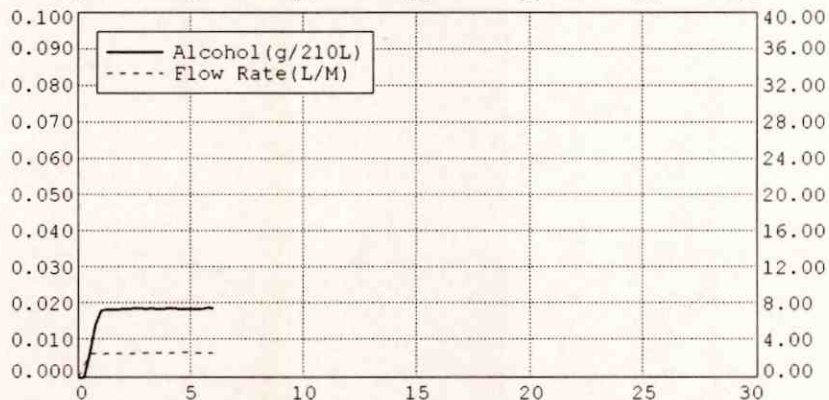
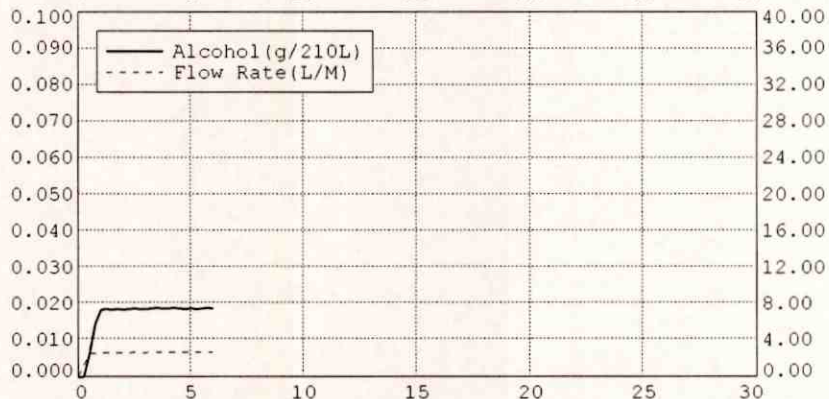
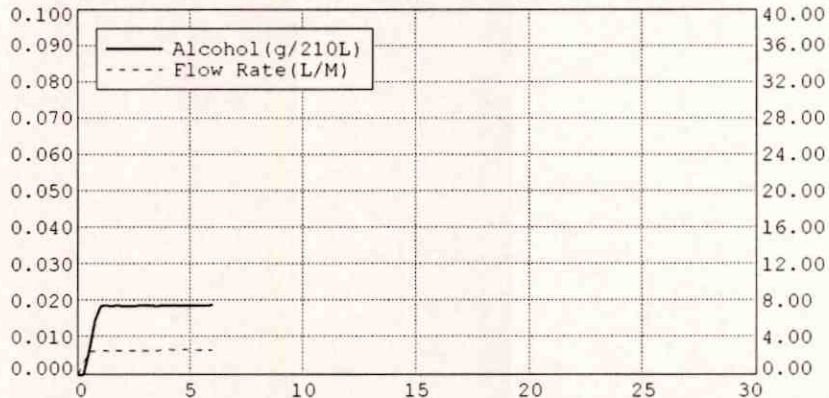
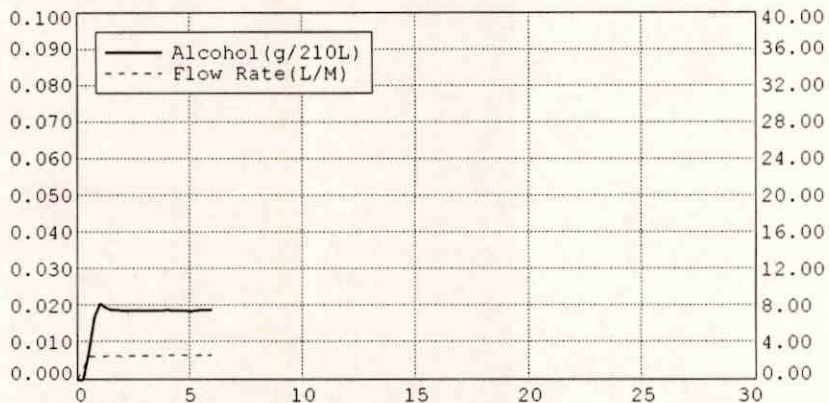
Date: 02/25/2022  
 Time: 09:58:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.29: 0.020  
 LOT #: AG100401  
 EXPIRATION: 01/04/2023  
 TANK PRESSURE: 636 psi

BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	10:00
EXTERNAL STANDARD	0.020	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.020	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.020	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.020	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.020	10:04
BLANK TEST	0.000	10:05

Average = 0.0200  
 Std Dev = 0.0000



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LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100695

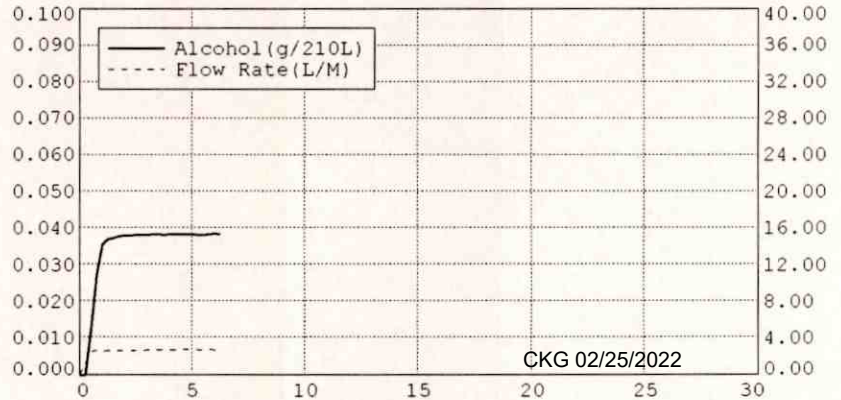
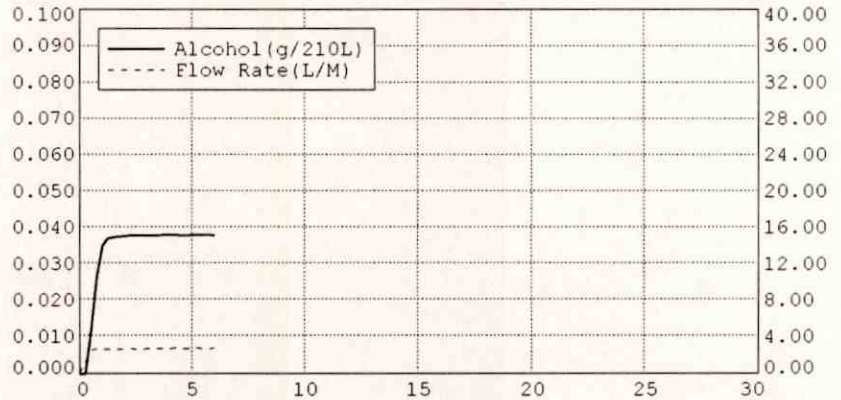
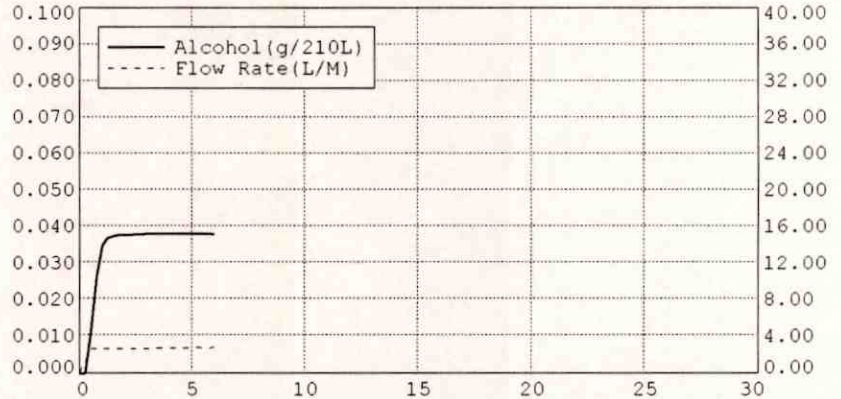
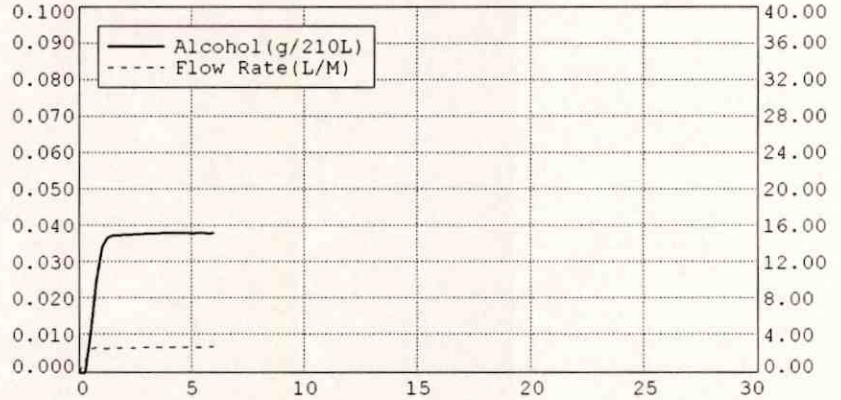
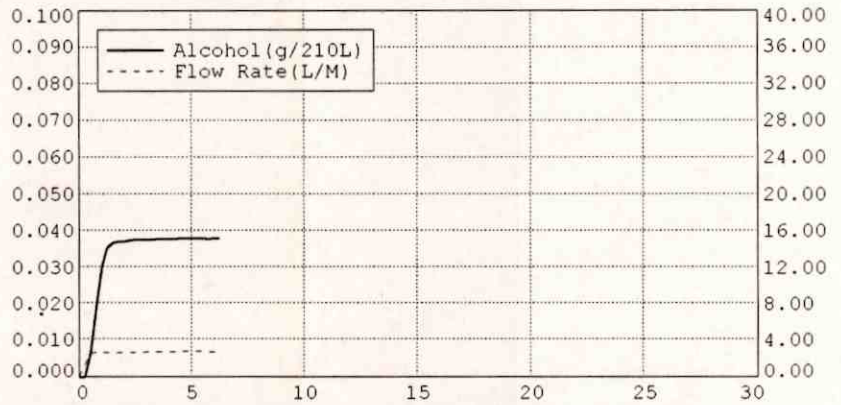
Date: 02/25/2022  
Time: 10:07:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
TARGET AT 29.27: 0.039  
LOT #: AG111710  
EXPIRATION: 04/27/2023  
TANK PRESSURE: 851 psi

BLANK TEST	0.000	10:08
INTERNAL STANDARD	VERIFIED	10:09
EXTERNAL STANDARD	0.039	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.039	10:10
BLANK TEST	0.000	10:11
EXTERNAL STANDARD	0.039	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.039	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.039	10:13
BLANK TEST	0.000	10:14

Average = 0.0390  
Std Dev = 0.0000





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dmt: 100695

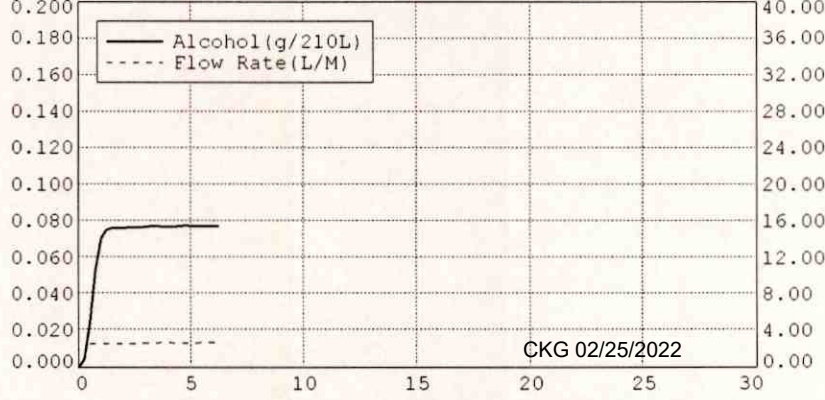
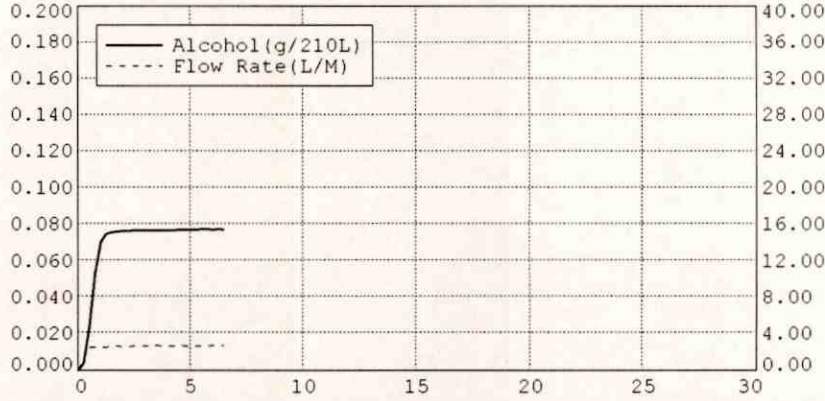
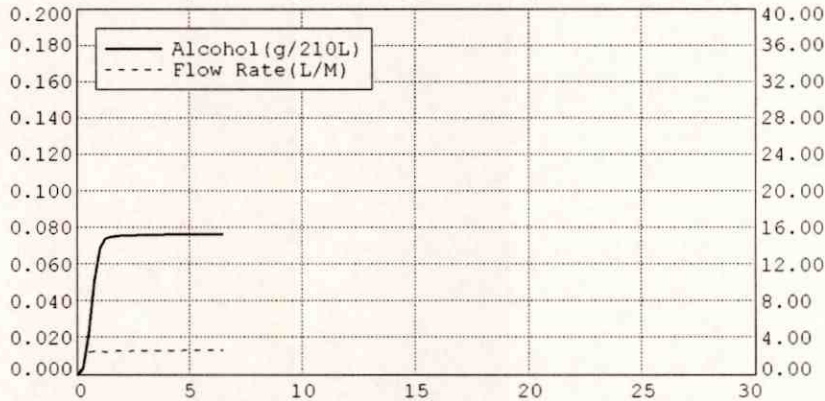
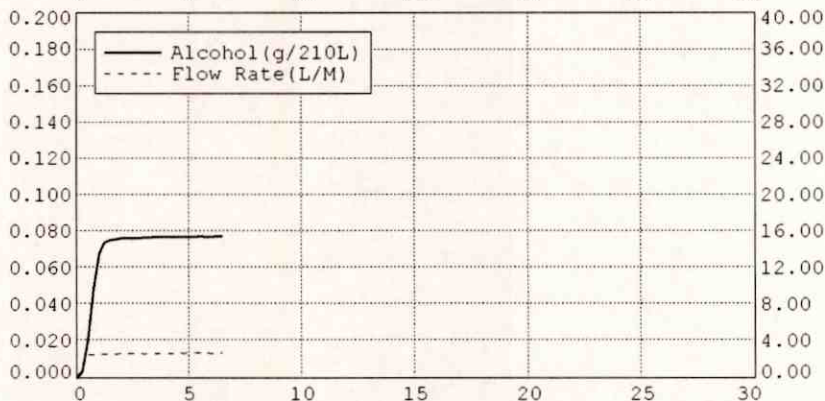
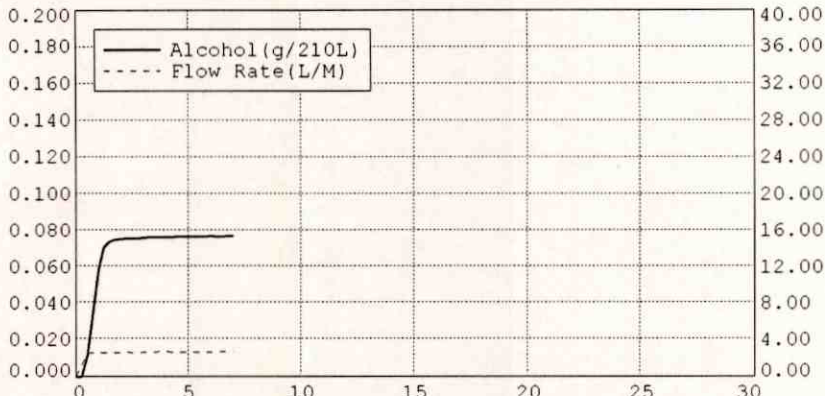
Date: 02/25/2022  
 Time: 10:15:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.29: 0.078  
 LOT #: AG113402  
 EXPIRATION: 05/14/2023  
 TANK PRESSURE: 723 psi

BLANK TEST	0.000	10:17
INTERNAL STANDARD	VERIFIED	10:17
EXTERNAL STANDARD	0.078	10:17
BLANK TEST	0.000	10:18
EXTERNAL STANDARD	0.078	10:19
BLANK TEST	0.000	10:19
EXTERNAL STANDARD	0.078	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.078	10:21
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.078	10:22
BLANK TEST	0.000	10:23

Average = 0.0780  
 Std Dev = 0.0000



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LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
 DATAMASTER dmt: 100695

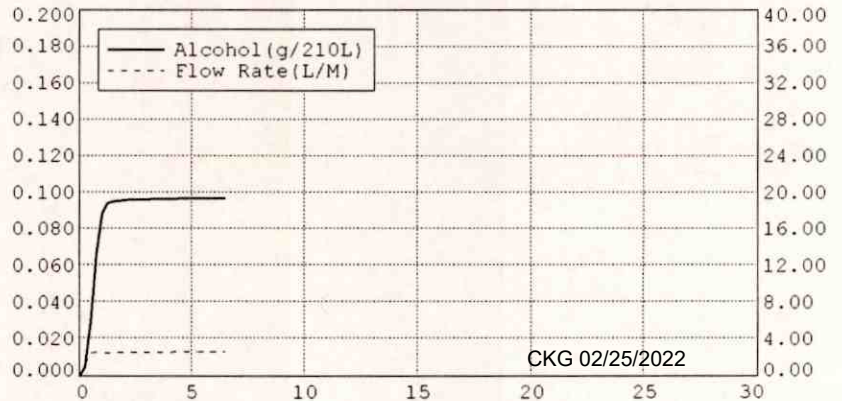
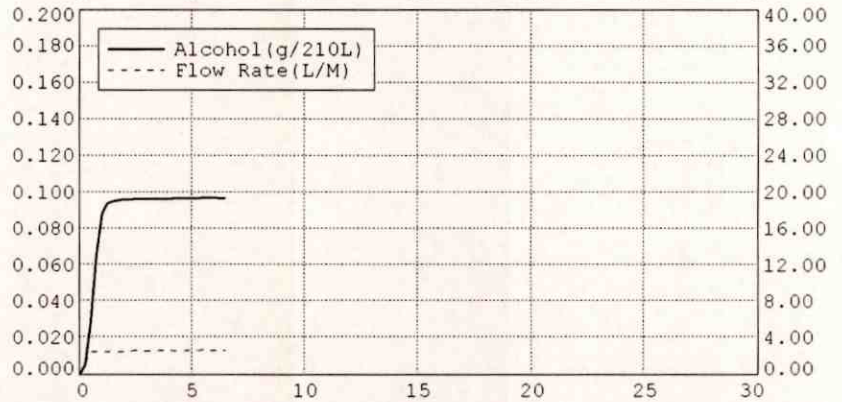
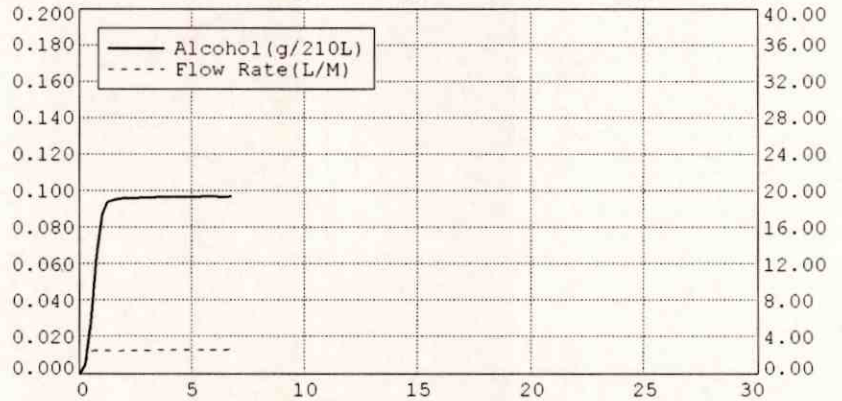
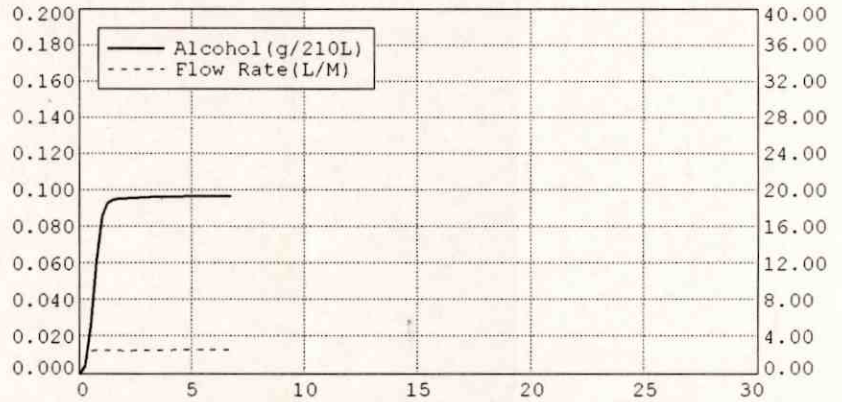
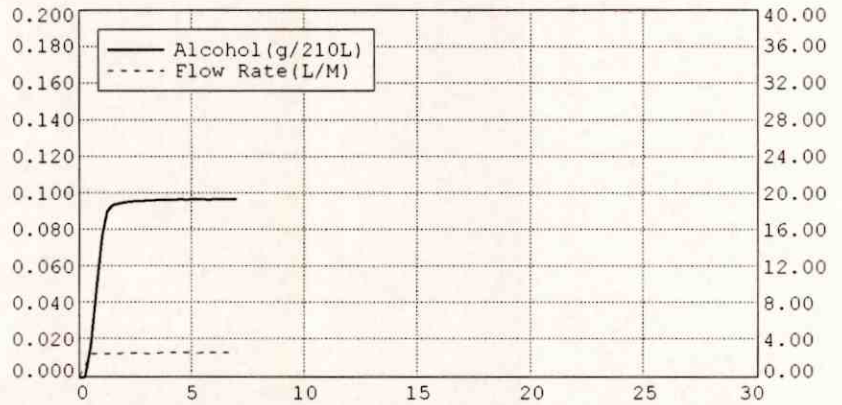
Date: 02/25/2022  
 Time: 10:31:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
 TARGET AT 29.27: 0.098  
 LOT #: AG108404  
 EXPIRATION: 03/25/2023  
 TANK PRESSURE: 565 psi

BLANK TEST	0.000	10:32
INTERNAL STANDARD	VERIFIED	10:32
EXTERNAL STANDARD	0.098	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.098	10:34
BLANK TEST	0.000	10:34
EXTERNAL STANDARD	0.098	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.098	10:36
BLANK TEST	0.000	10:37
EXTERNAL STANDARD	0.098	10:37
BLANK TEST	0.000	10:38

Average = 0.0980  
 Std Dev = 0.0000



CKG 02/25/2022

LINEARITY CHECK: Control Test 5

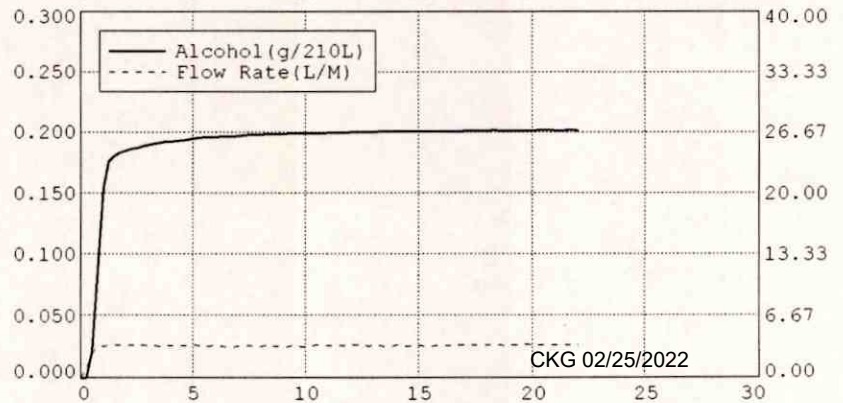
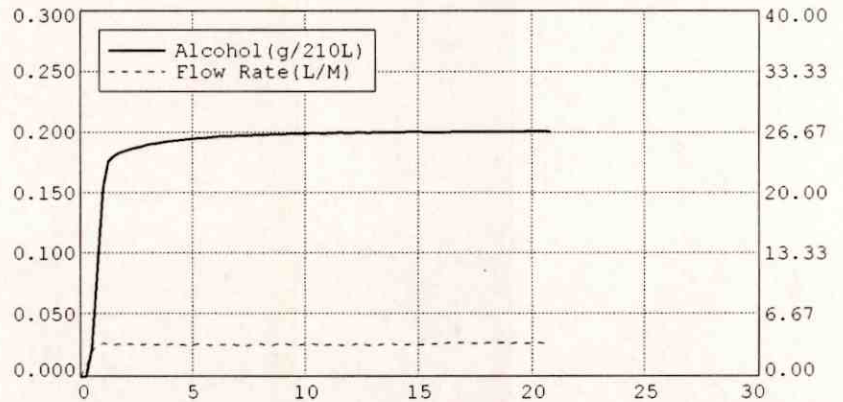
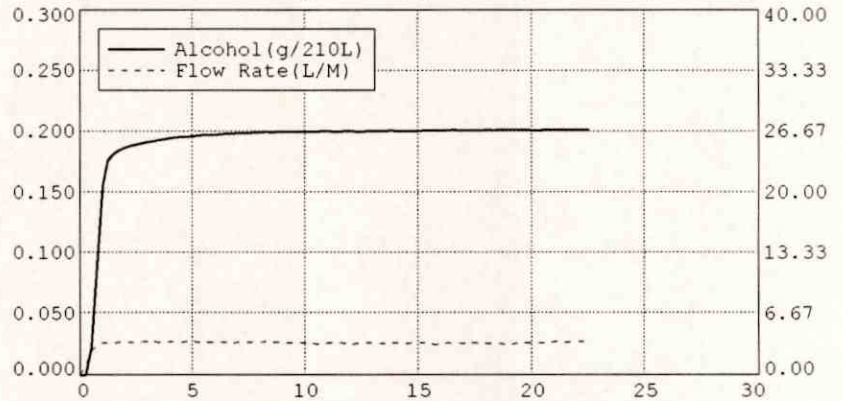
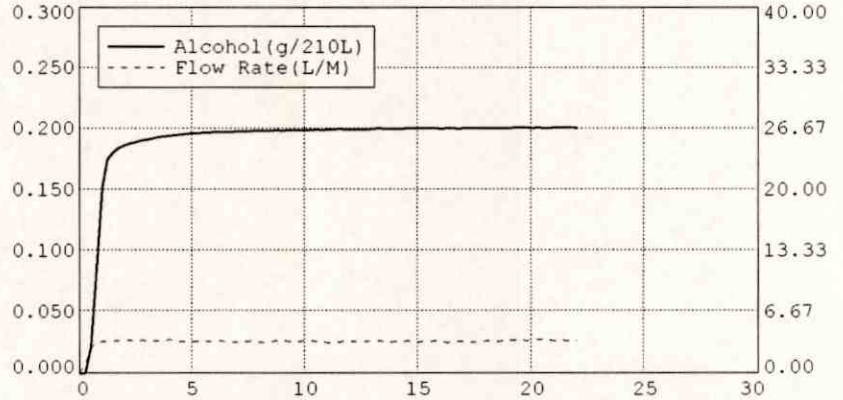
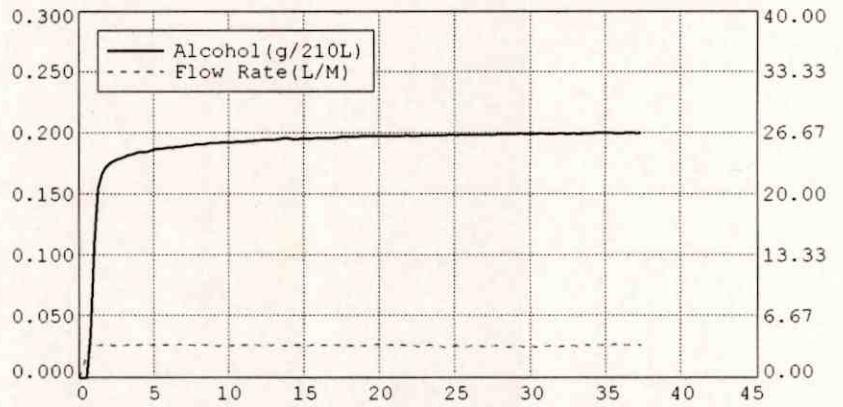
Alaska Department of Public Safety  
 DATAMASTER dmt: 100695

Date: 02/25/2022  
 Time: 10:50:52

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

BLANK TEST	0.000	10:52
INTERNAL STANDARD	VERIFIED	10:52
EXTERNAL STANDARD	0.197	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.198	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.199	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.198	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.199	10:58
BLANK TEST	0.000	10:59

Average = 0.1982  
 Std Dev = 0.0008



CKG 02/25/2022

LINEARITY CHECK: Control Test 6

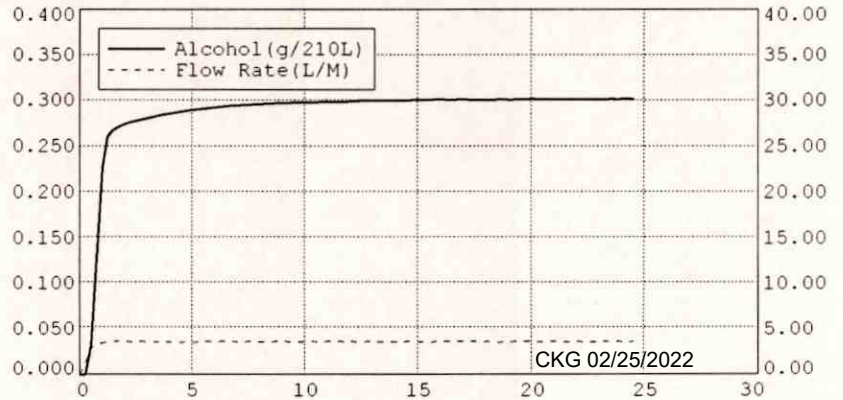
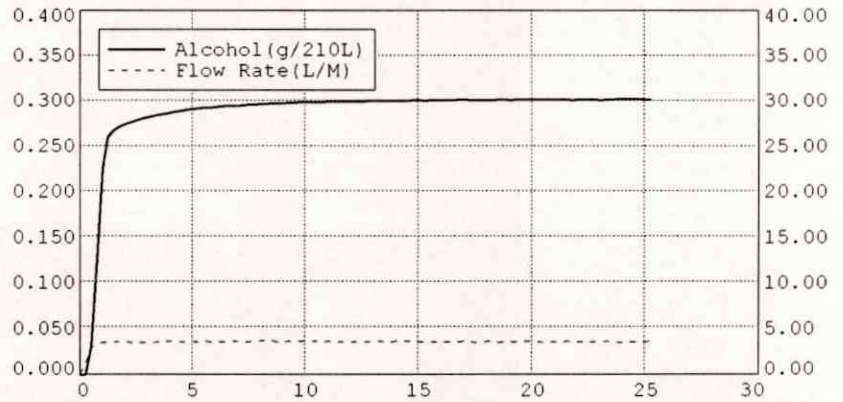
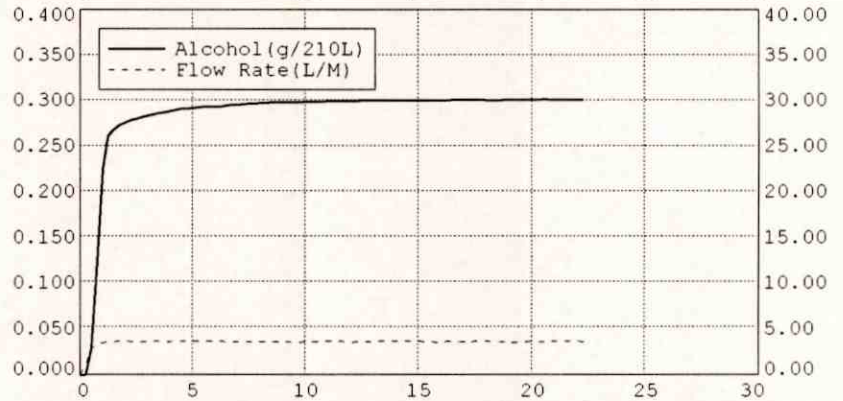
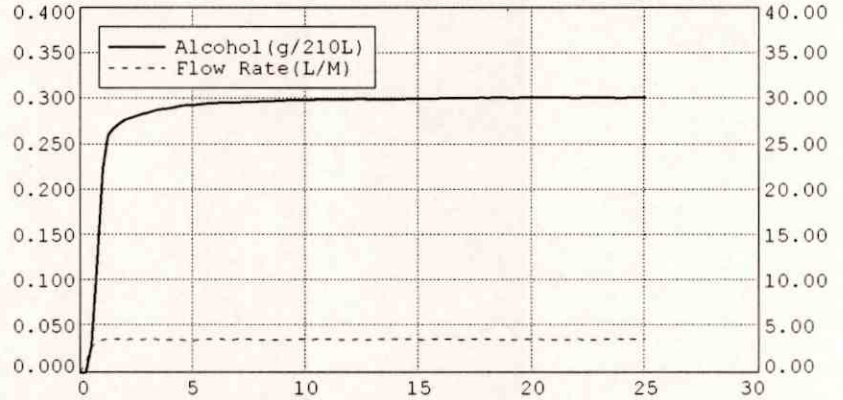
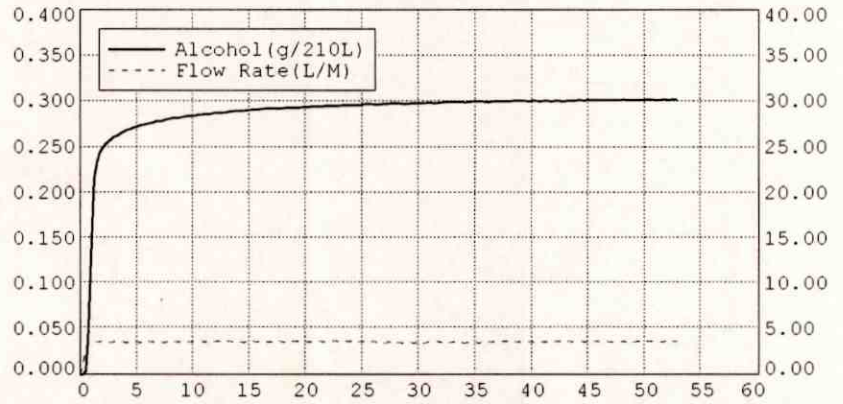
Alaska Department of Public Safety  
 DATAMASTER dmt: 100695

Date: 02/25/2022  
 Time: 11:00:34

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.300  
 LOT #: 21030  
 EXPIRATION: 02/02/2023

BLANK TEST	0.000	11:01
INTERNAL STANDARD	VERIFIED	11:01
EXTERNAL STANDARD	0.298	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.297	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.297	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.297	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.298	11:08
BLANK TEST	0.000	11:09

Average = 0.2974  
 Std Dev = 0.0005



CKG 02/25/2022

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100695

Date: 02/25/2022

Time: 11:17:18

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

CARLIE GLAISTER

OPERATOR'S #: 10436

DEPT/AGENCY:

INCOMPLETE

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.26: 0.078

LOT #: AG113402

EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

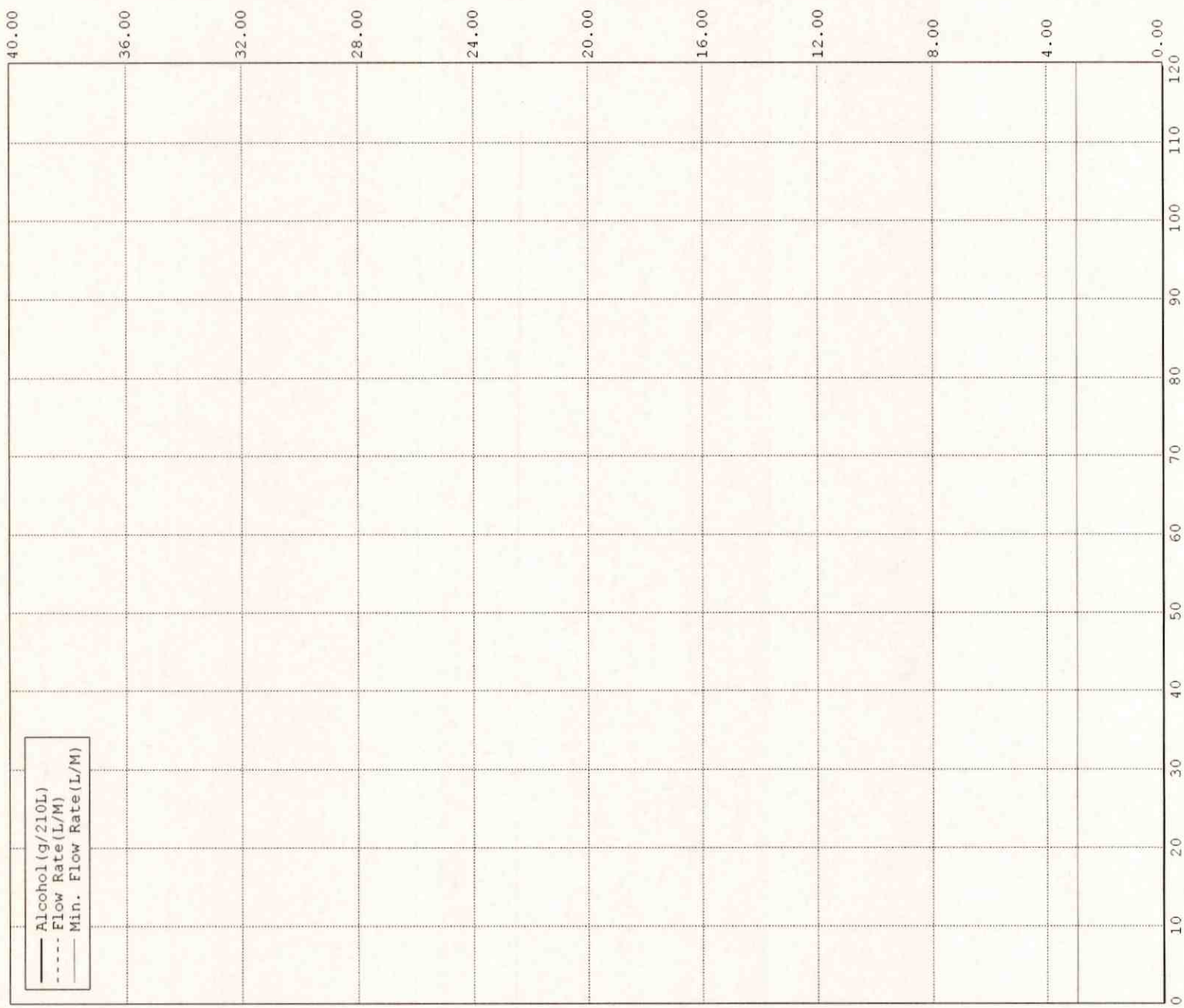
PASSED 11:18  
0.000 11:18

VERIFIED 11:18  
0.077 11:18

0.000 11:19  
INCOMPLETE 11:21

CKG

CKG 02/25/2022



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100695

Date: 02/25/2022

Time: 11:26:49

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

CARLIE GLAISTER

OPERATOR'S #: 10436

DEPT/AGENCY:

MAXIMUM ATTEMPTS EXCEEDED

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.27: 0.078

LOT #: AG113402

EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK

PASSED

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

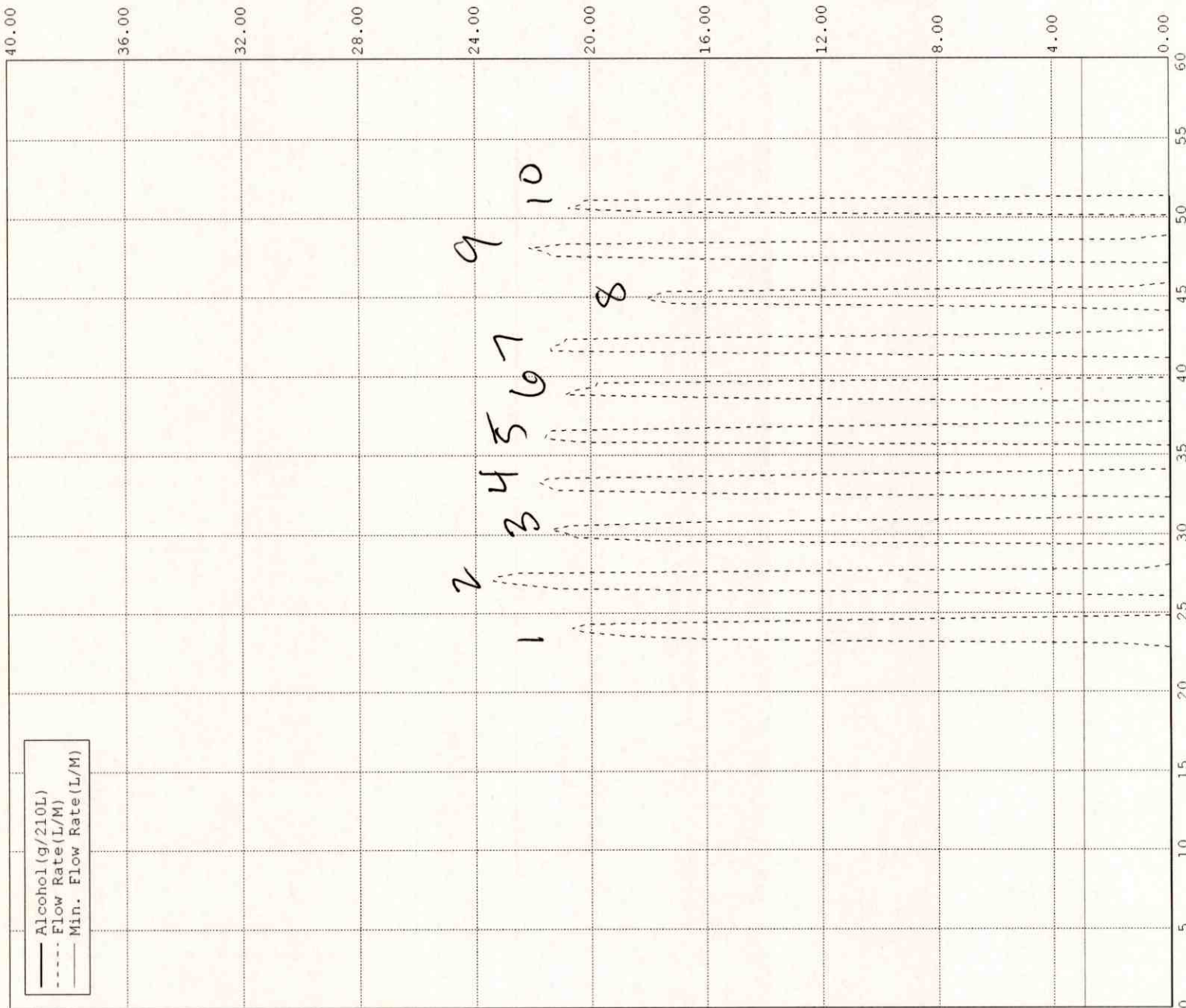
SUBJECT SAMPLE

11:27  
0.000  
11:27  
VERIFIED  
11:28  
0.077  
11:28  
0.000  
11:29  
XXX  
11:30

Maximum Attempts Exceeded

CKG 02/25/2022

CKG



SUBJECT TEST

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100695  
-----

Date: 02/25/2022  
Time: 12:54:08

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

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

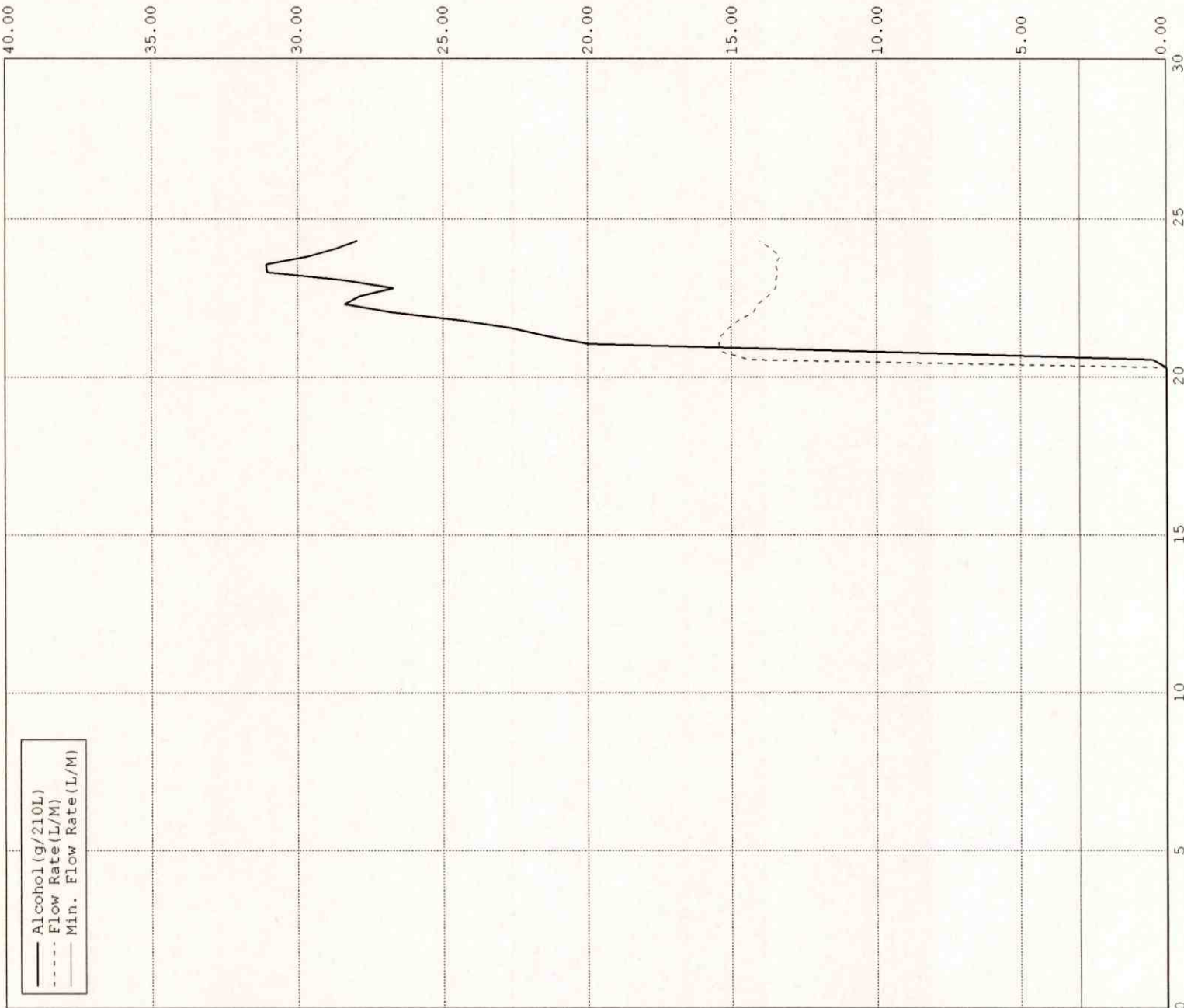
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.26: 0.078  
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	12:55
BLANK TEST	0.000	12:56
SUBJECT SAMPLE	INVALID	12:57

CKG 02/25/2022

CKG



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100695

Date: 02/25/2022  
Time: 13:00:28

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

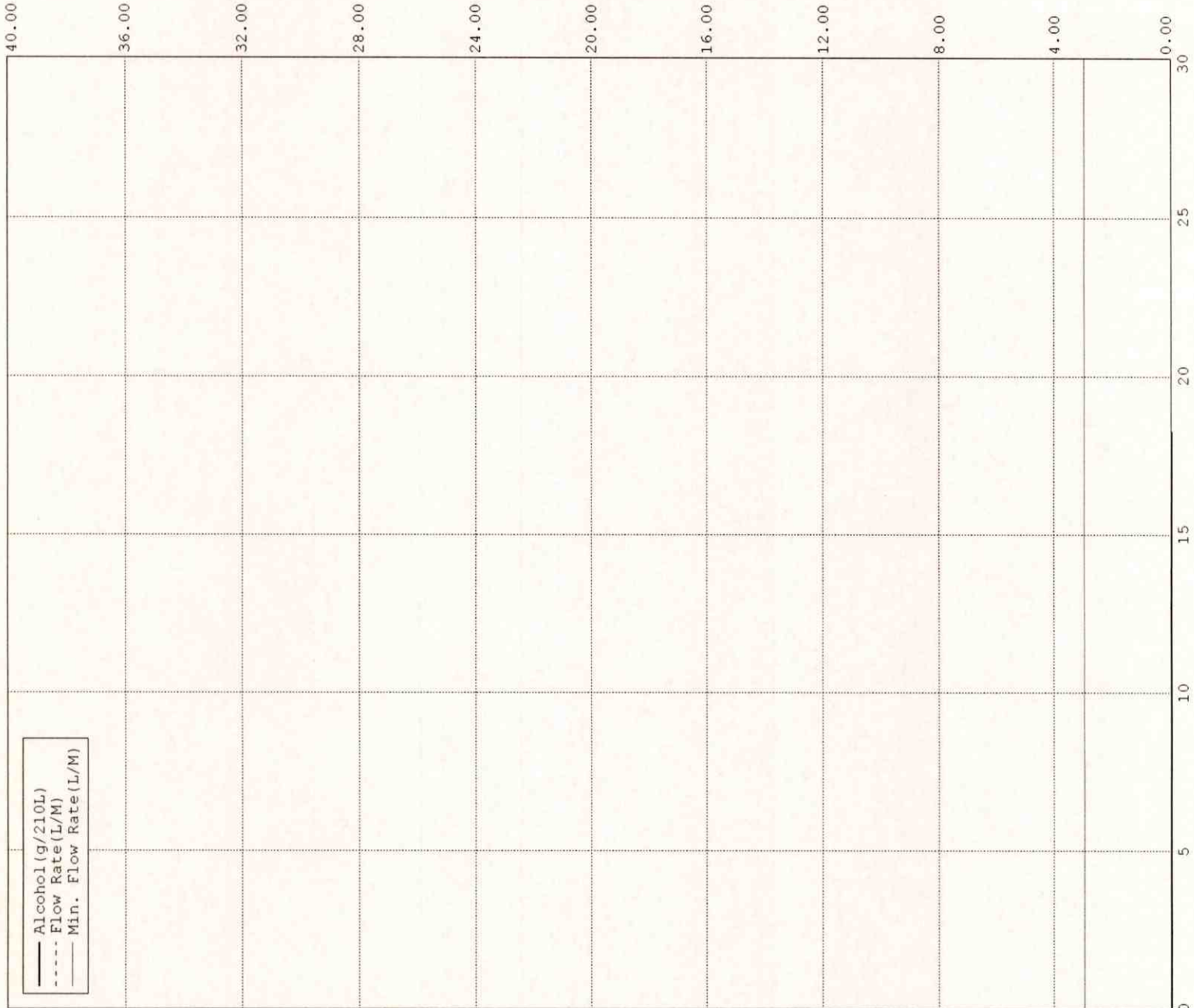
DEPT/AGENCY:  
RFI  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.26: 0.078  
LOT #: AG113402  
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 13:01  
BLANK TEST 0.000 13:01  
INTERNAL STANDARD VERIFIED 13:01  
EXTERNAL STANDARD 0.078 13:01  
BLANK TEST 0.000 13:02

RFI DETECTED

CKG 02/25/2022





SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100695

Date: 02/25/2022  
Time: 13:25:32

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.25: 0.078  
LOT #: AG113402  
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK PASSED 13:27  
BLANK TEST 0.000 13:27  
INTERNAL STANDARD VERIFIED 13:27  
Xq = 0.112 (2.42%)  
EXTERNAL STANDARD 0.078 13:27  
X[1] = 0.0782 (0.0009) (0.0033)  
BLANK TEST 0.000 13:28  
SUBJECT SAMPLE XXX 13:29  
X[1] = 0.1116 (-0.0187) (0.0025)

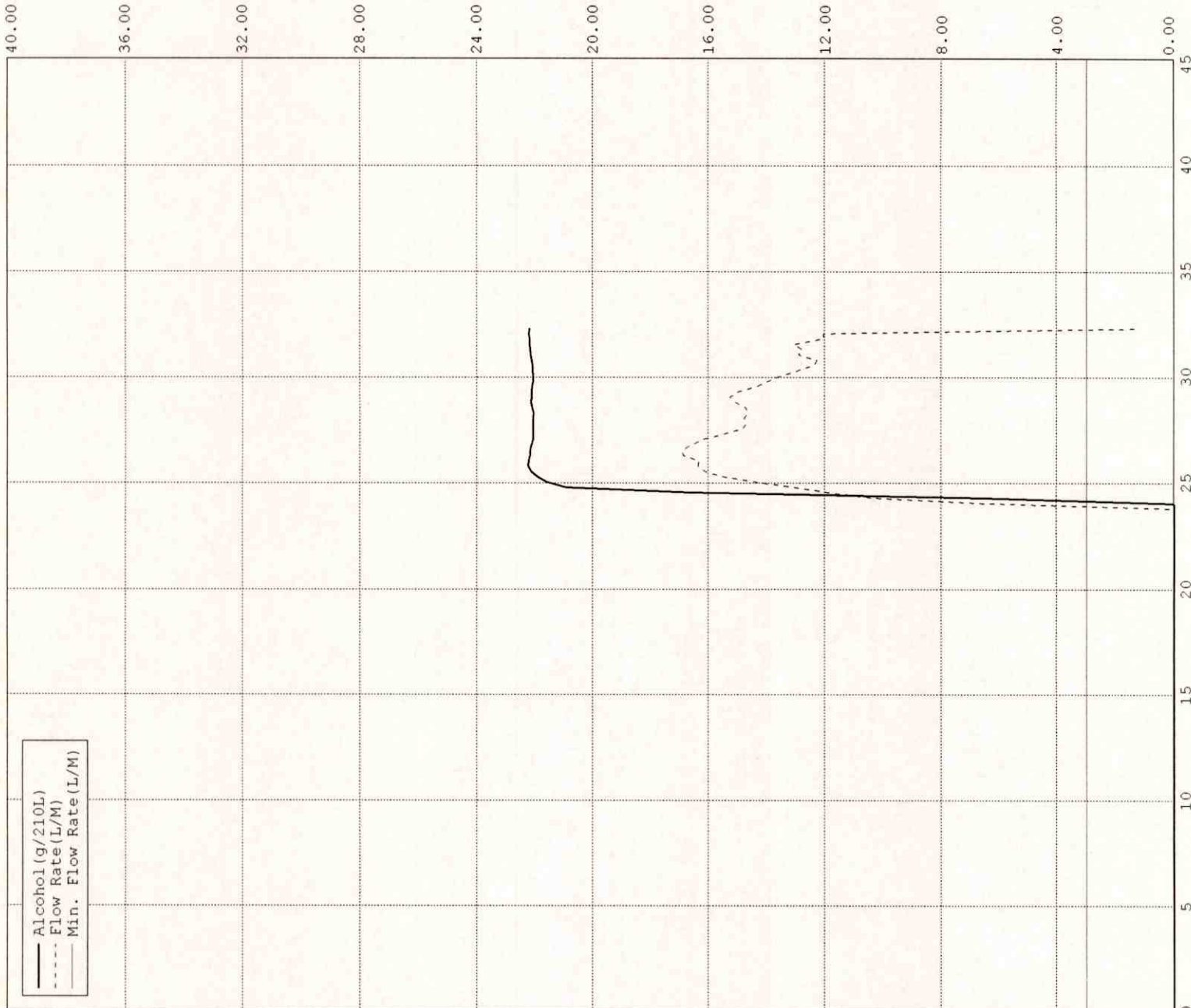
Interference Detected

Filter 2 Average: 0.0066  
Filter 3 Average: 0.0033

WUG-2/25/2022

CKG 02/25/2022

CKG



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100695

Date: 02/25/2022

Time: 13:18:43

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

CARLIE GLAISTER

OPERATOR'S #: 10436

DEPT/AGENCY:

INTERFERENCE ISOPROPANOL

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.25: 0.078

LOT #: AG113402

EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK

PASSED 13:19

BLANK TEST 0.000 13:19

INTERNAL STANDARD

VERIFIED 13:19

Xg = 0.111 (1.70%)

EXTERNAL STANDARD

0.078 13:20

X[1] = 0.0777 (0.0005) (0.0036)

BLANK TEST 0.000 13:21

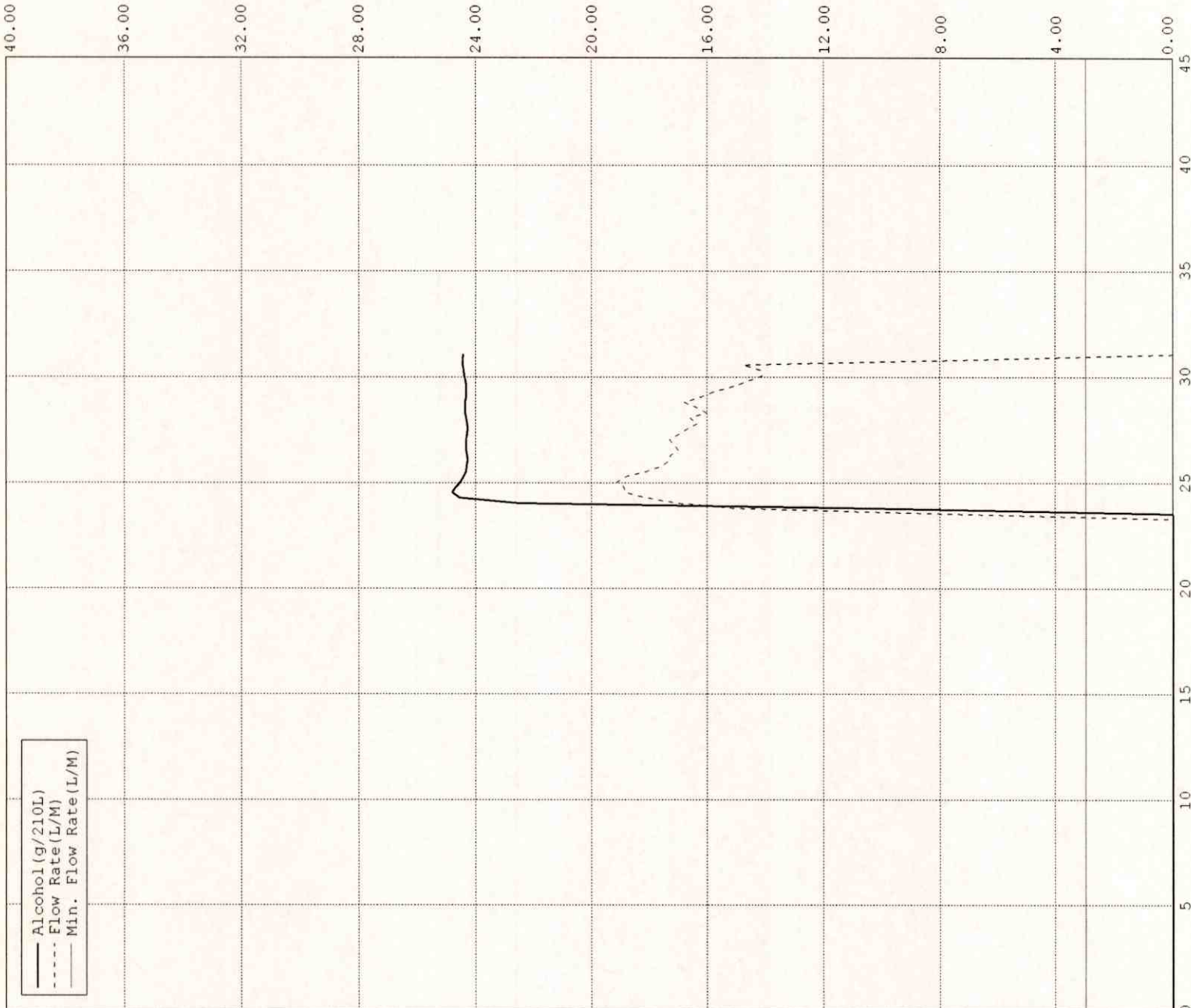
SUBJECT SAMPLE XXX 13:21

X[1] = 0.1226 (-0.0237) (0.0029)

Interference Detected

CKG

CKG 02/25/2022



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100695

Date: 02/25/2022  
Time: 13:09:56

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

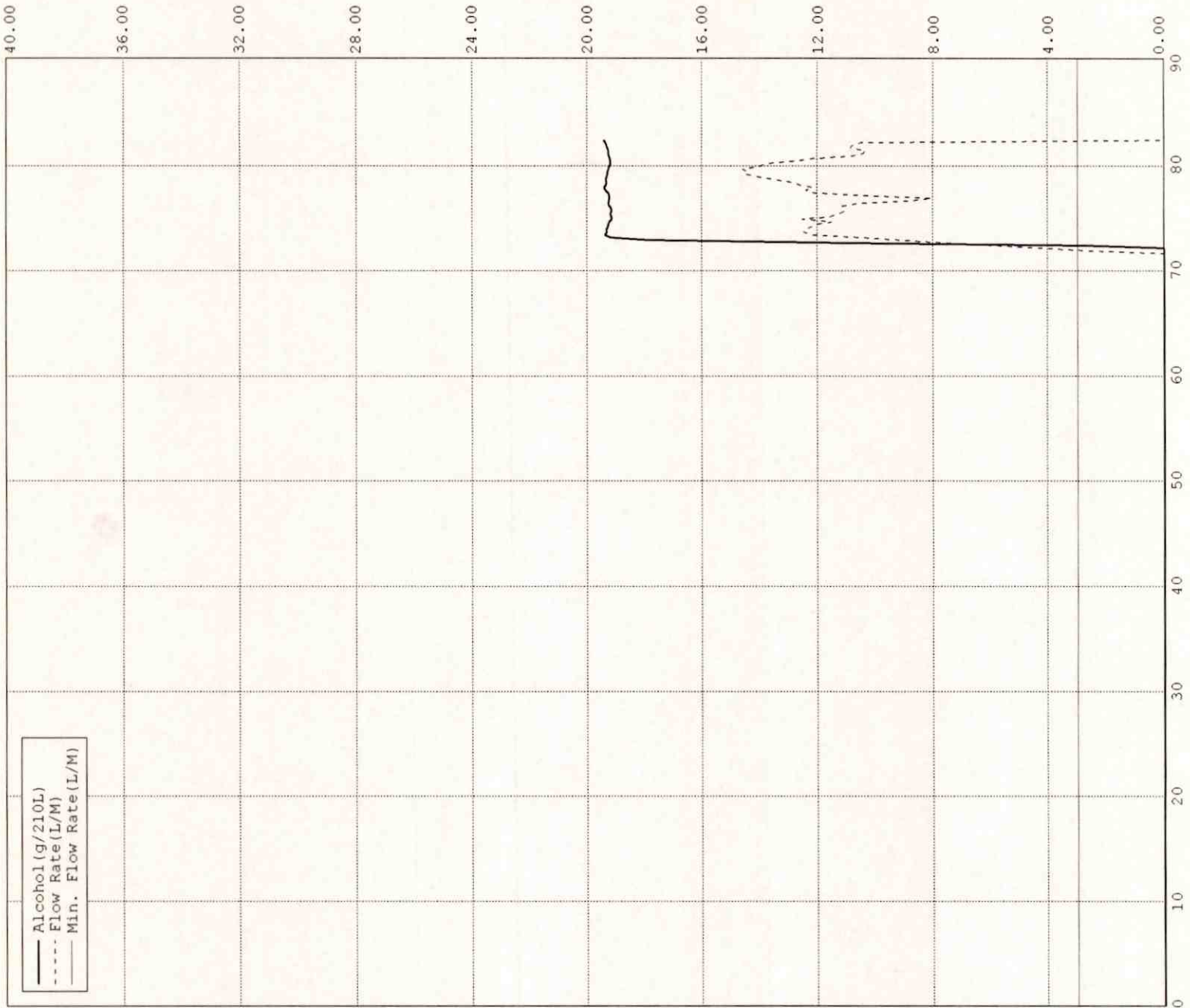
DEPT/AGENCY:  
INTERFERENCE NEGATIVE CONTROL  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.25: 0.078  
LOT #: AG113402  
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:11
BLANK TEST	0.000	13:11
INTERNAL STANDARD	VERIFIED	13:11
$x_q = 0.111$ (2.10%)	0.078	13:11
EXTERNAL STANDARD	(0.0036)	
$x[1] = 0.0782$ (0.0009)	0.000	13:12
BLANK TEST	0.000	13:14
SUBJECT SAMPLE (Vol=1.95L)	0.097	13:14
$x[1] = 0.0976$ (-0.0001)	(0.0011)	
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.078	13:15
$x[1] = 0.0775$ (0.0002)	(0.0026)	
BLANK TEST	0.000	13:16

CKE7

CKG 02/25/2022



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100695

Date: 02/25/2022  
Time: 13:53:04

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

DEPT/AGENCY:  
NON-DRINKING SUBJECT TEST  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.25: 0.078  
LOT #: AG113402  
EXPIRATION: 05/14/2023

DIAGNOSTIC CHECK	PASSED	13:54
BLANK TEST	0.000	13:54
INTERNAL STANDARD	VERIFIED	13:54
EXTERNAL STANDARD	0.078	13:54
BLANK TEST	0.000	13:55
SUBJECT SAMPLE (Vol=2.29L)	0.000	13:56
BLANK TEST	0.000	13:57
EXTERNAL STANDARD	0.078	13:57
BLANK TEST	0.000	13:58

CKG 02/25/2022

