

# Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100698 Analyst: Carlie Haister Start Date: 02/25/22  
Tatiana Lee

- Diagnostic Test (attached)
- Adjust voltages, if needed
  - Lamp (2.6V Maximum)
  - Bias
  - Cooler (2.0V Maximum)
  - Chopper Frequency
  - Detector Voltage (-0.100V to 0.100V)
- Internal Standard value  $\leq$  3.00%
- 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: AG100401 Exp: 1/4/2023  
0.040g/210L Mnf: Airgas Lot: AG11710 Exp: 4/27/2023  
0.080g/210L Mnf: Airgas Lot: AG018102 Exp: 6/29/2022  
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 21030 Lot: 21030 Exp: 2/2/2023  
Simulator S/N: SD1202 Date Calibrated: 6/15/2021

### Functional Tests (attached)

- Incomplete
  - Invalid
  - Maximum Attempts Exceeded
  - Radio Frequency Interference
  - Interference (Volatiles)
- Acetone Mnf: Lifeloc Lot: 21DP41158 Level: 0.100 Exp: 4/29/2023  
Simulator S/N: SD1177 Date Calibrated: 6/15/2021  
Isopropanol Mnf: Lifeloc Lot: 21DP41158 Level: 0.100 Exp: 4/29/2023  
Simulator S/N: SD1198 Date Calibrated: 6/15/2021  
Neg. Control Mnf: Lifeloc Lot: 21KP41172 Level: 0.100 Exp: 11/09/2023  
Simulator S/N: SD1088 Date Calibrated: 06/15/2021

- 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: 2/25/2022

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100698  
-----

Date: 02/25/2022  
Time: 09:16:39

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 = 46.5°C PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.62 V PASSED  
(0.99 V - 2.31 V)  
Cooler Voltage = 1.62 V PASSED  
(1.00 V - 2.34 V)  
Bias Voltage = 80 V PASSED  
(49 V - 113 V)  
Chopper Freq = 532 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.841 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 = 0.118 2.15% (0.00% - 4.00%) PASSED

Technician Screen

-----  
DATAMASTER dmt: 100698  
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Date: 02/25/2022  
Time: 9:33 AM

Temperatures (°C)

Sample Cell: 48.9°C  
Breath Tube: 46.1°C

Current Barometer 29.3 in  
Volume (Ltr) 1.56

Settings

Lamp: 1.67 V  
Bias: 80 V  
Cooler: 1.62 V  
Chopper: 532 Hz

Voltages (V)

Flow: 1.04 V  
Detector: -0.076 V

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100698  
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Date: 10/31/2011  
Time: 11:31:50

Ca = 0.1000  
CAL = 1.001976    0.800 <= CAL < 1.200  
b1 = 0.0009    0.0000 <= b1 < 0.0040  
b2 = 0.0051    0.0010 <= b2 < 0.0100  
b3 = 0.0000    0.0000 <= b3 < 0.0040  
Xq = 0.1153    0.0500 <= Xq < 0.2000  
a21 = 1.196919    1.050 <= a21 < 1.300  
a31 = 0.369985    0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100698

Date: 02/25/2022  
Time: 09:50:24

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

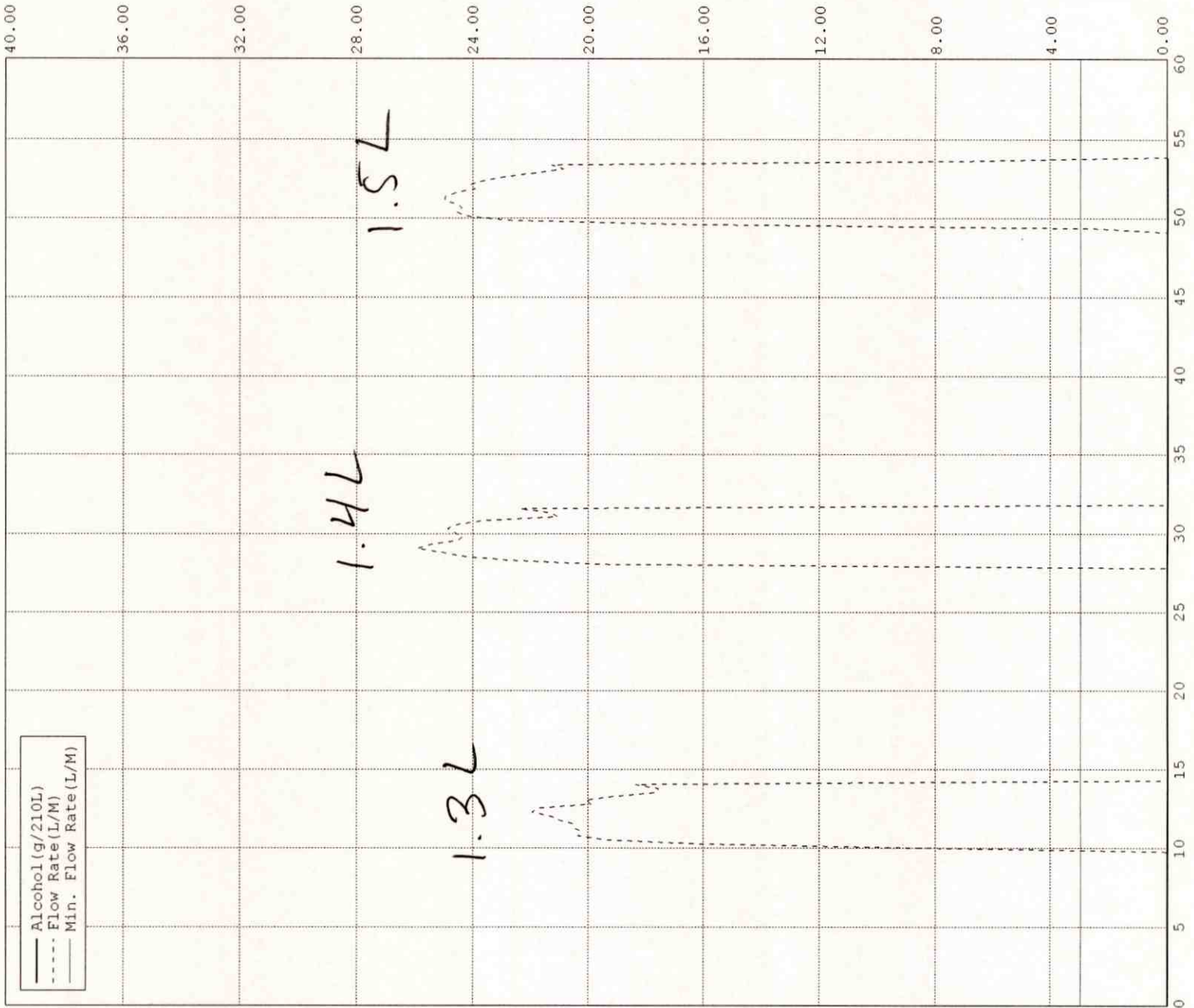
DEPT/AGENCY:  
MINIMUM VOLUME TEST  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.27: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	09:51
BLANK TEST	0.000	09:51
INTERNAL STANDARD	VERIFIED	09:51
EXTERNAL STANDARD	0.079	09:51
BLANK TEST	0.000	09:52
SUBJECT SAMPLE (Vol=1.57L)	0.000	09:53
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.079	09:54
BLANK TEST	0.000	09:55

CKG

CKG 02/25/2022



LINEARITY CHECK

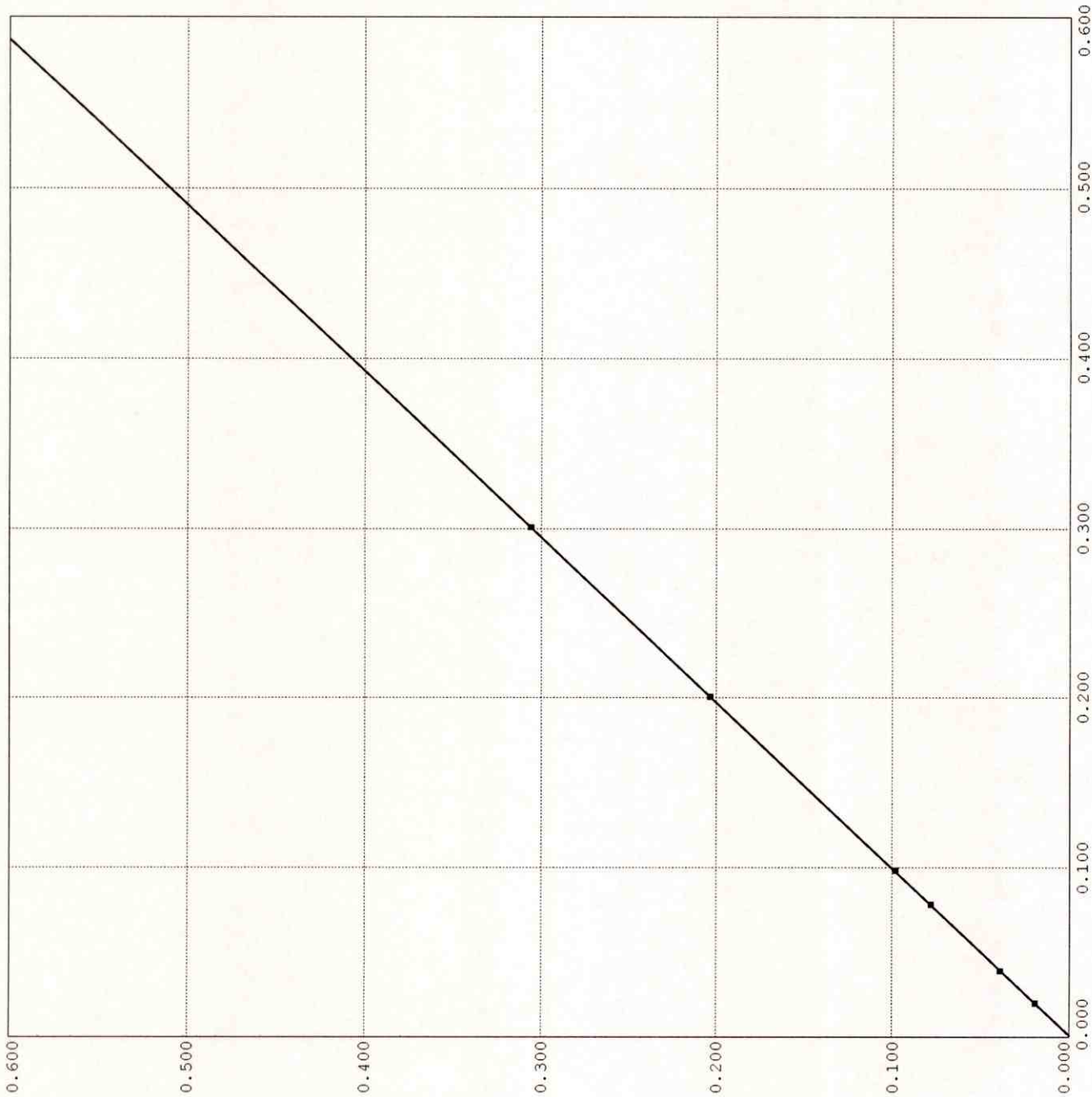
-----  
 Alaska Department of Public Safety  
 DATAMASTER dmt: 100698  
 -----

Date: 02/25/2022  
 Time: 10:09:39

SUPERVISOR NAME:  
 CARLIE GLAISTER  
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.039	0.0398	0.0004
0.078	0.0790	0.0000
0.098	0.0990	0.0000
0.200	0.2044	0.0005
0.300	0.3066	0.0009

SLOPE = 1.023913  
 R<sup>2</sup> = 0.999985



CKG 02/25/2022

CKG

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
 DATAMASTER dmt: 100698

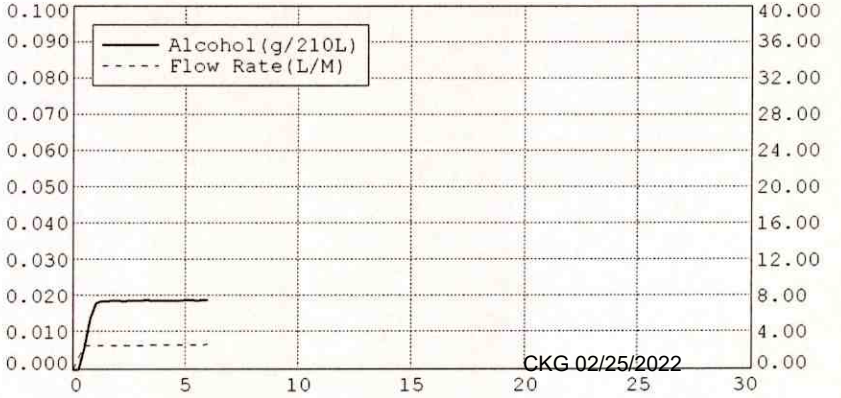
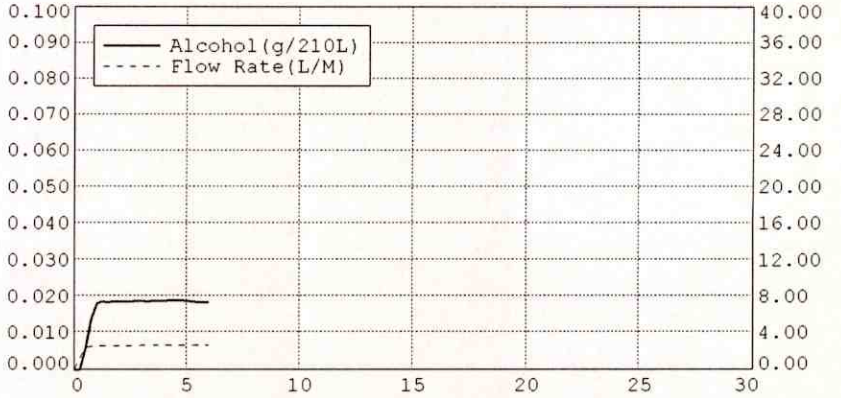
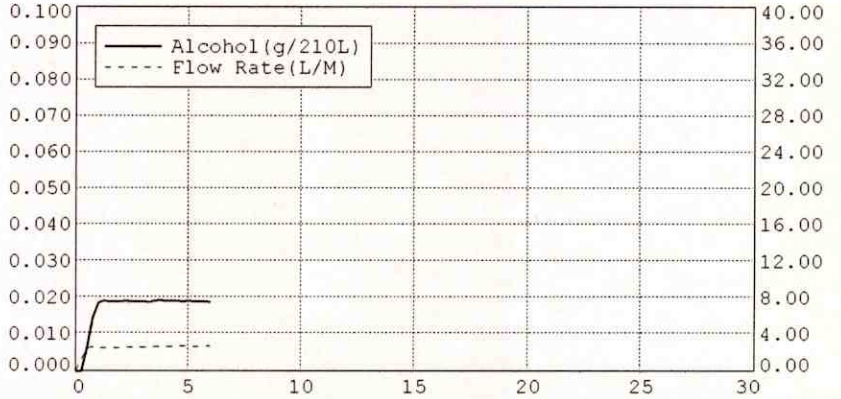
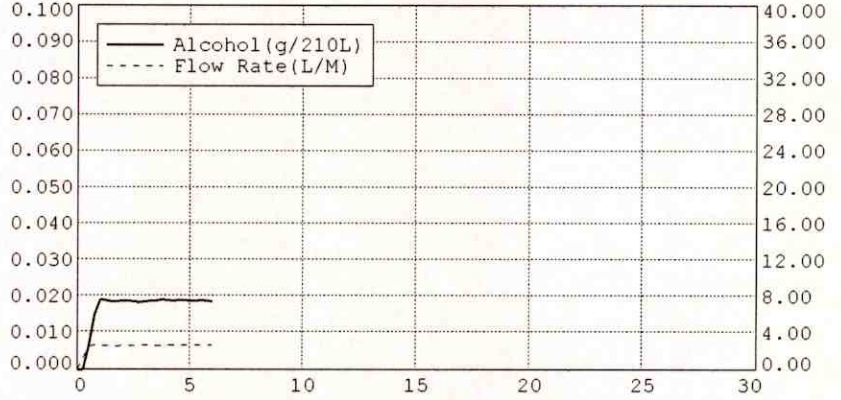
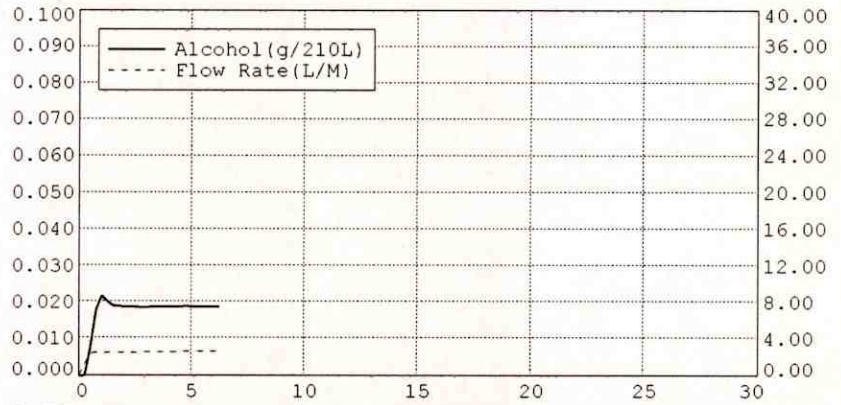
Date: 02/25/2022  
 Time: 10:09:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.27: 0.020  
 LOT #: AG100401  
 EXPIRATION: 01/04/2023  
 TANK PRESSURE: 619 psi

BLANK TEST	0.000	10:11
INTERNAL STANDARD	VERIFIED	10:11
EXTERNAL STANDARD	0.020	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.020	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.020	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.020	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.020	10:15
BLANK TEST	0.000	10:16

Average = 0.0200  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100698

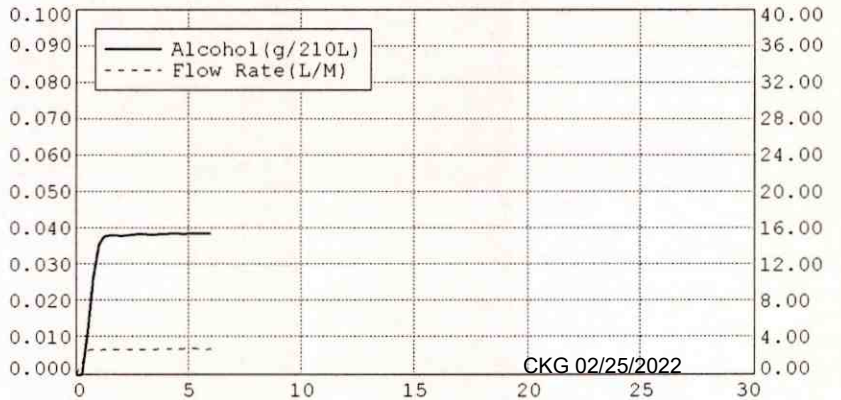
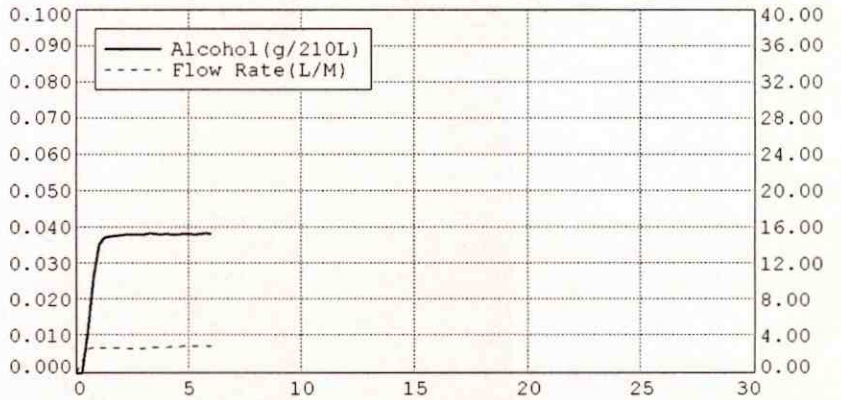
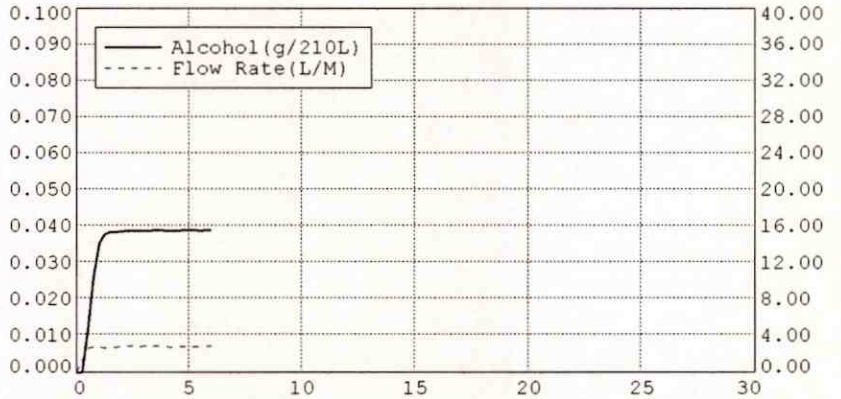
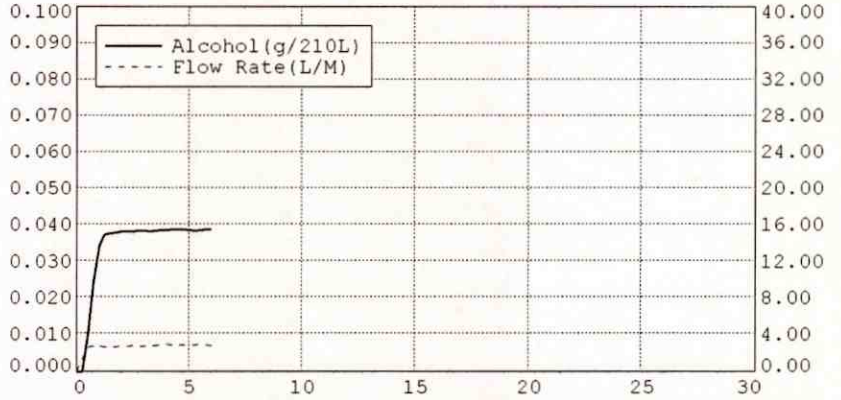
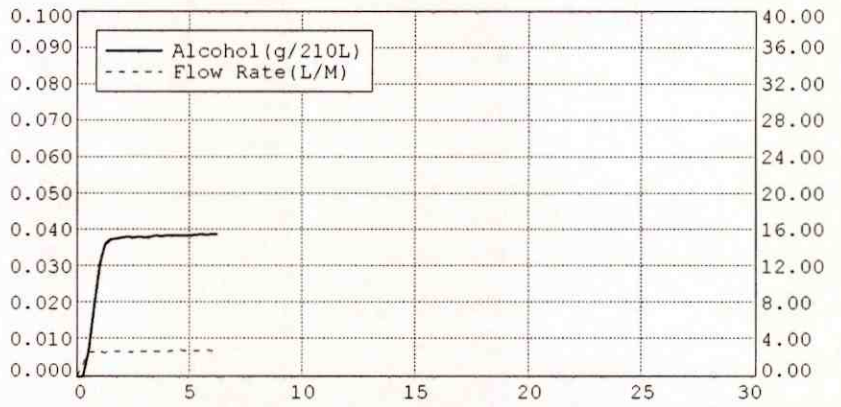
Date: 02/25/2022  
Time: 10:18:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
TARGET AT 29.27: 0.039  
LOT #: AG111710  
EXPIRATION: 04/27/2023  
TANK PRESSURE: 835 psi

BLANK TEST	0.000	10:19
INTERNAL STANDARD	VERIFIED	10:19
EXTERNAL STANDARD	0.040	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.040	10:21
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.040	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.039	10:23
BLANK TEST	0.000	10:24
EXTERNAL STANDARD	0.040	10:24
BLANK TEST	0.000	10:25

Average = 0.0398  
Std Dev = 0.0004





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dmt: 100698

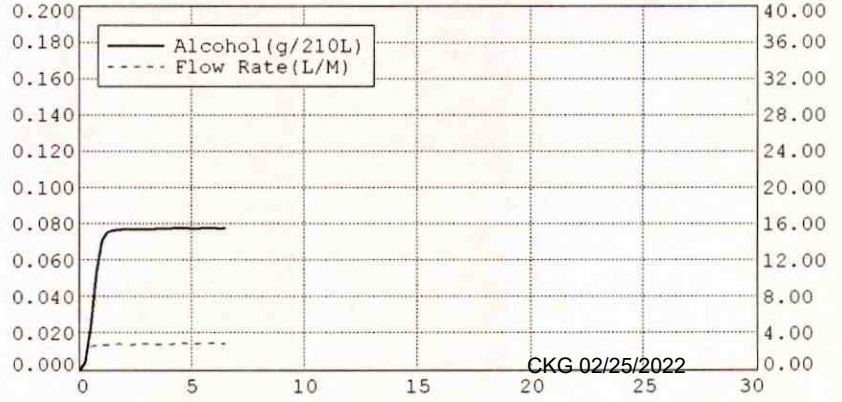
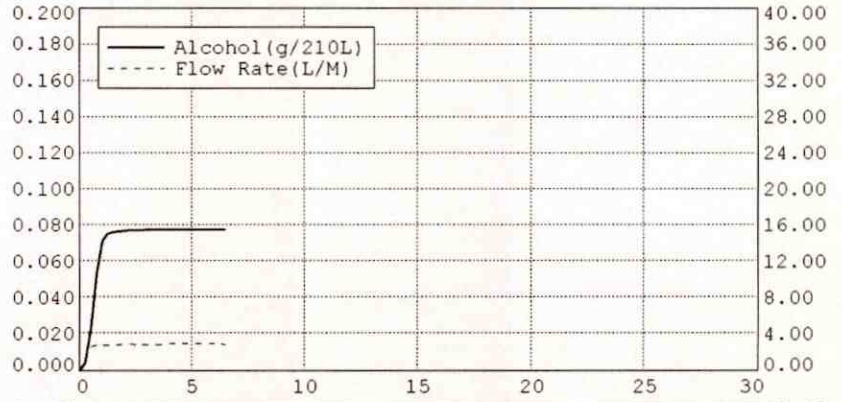
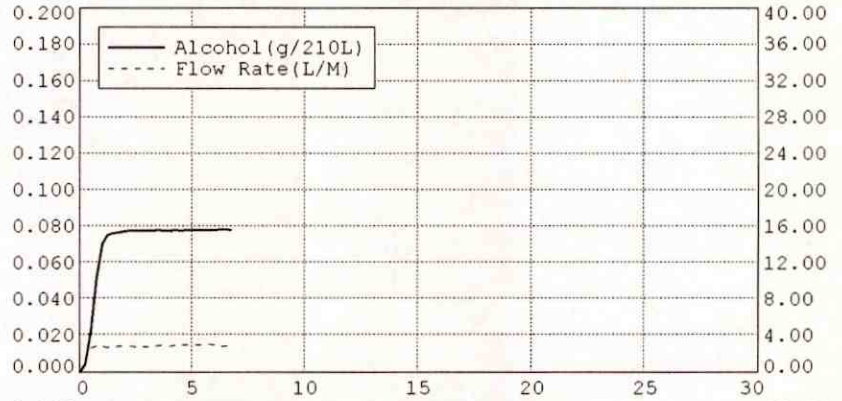
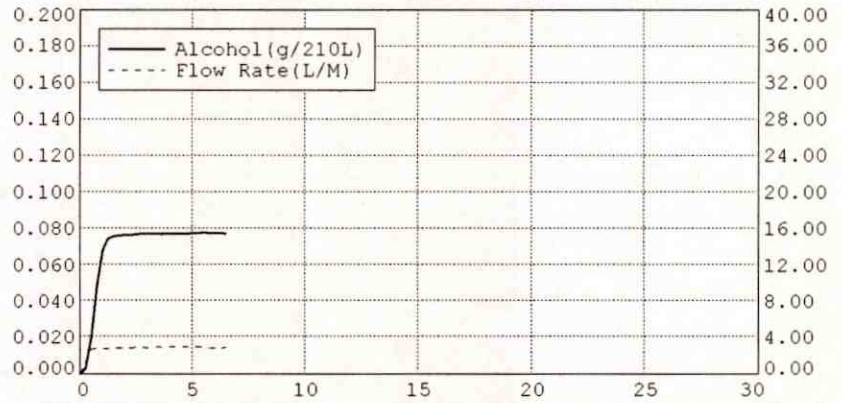
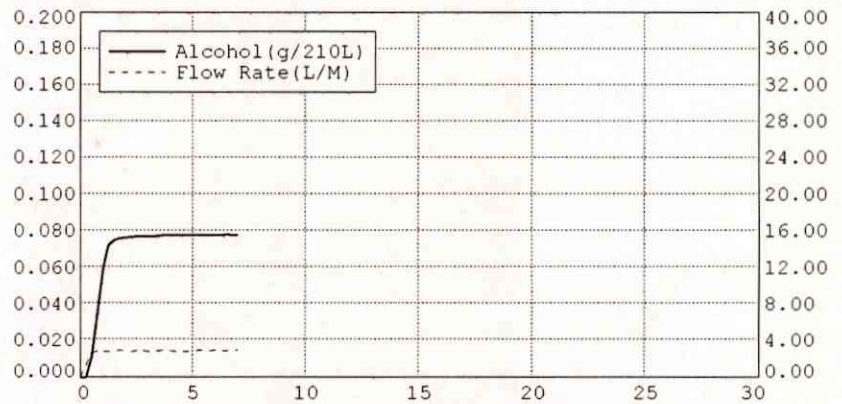
Date: 02/25/2022  
 Time: 10:29:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 29.27: 0.078  
 LOT #: AG018102  
 EXPIRATION: 06/29/2022  
 TANK PRESSURE: 1007 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	0.079	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.079	10:35
BLANK TEST	0.000	10:36
EXTERNAL STANDARD	0.079	10:36
BLANK TEST	0.000	10:37

Average = 0.0790  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
 DATAMASTER dmt: 100698

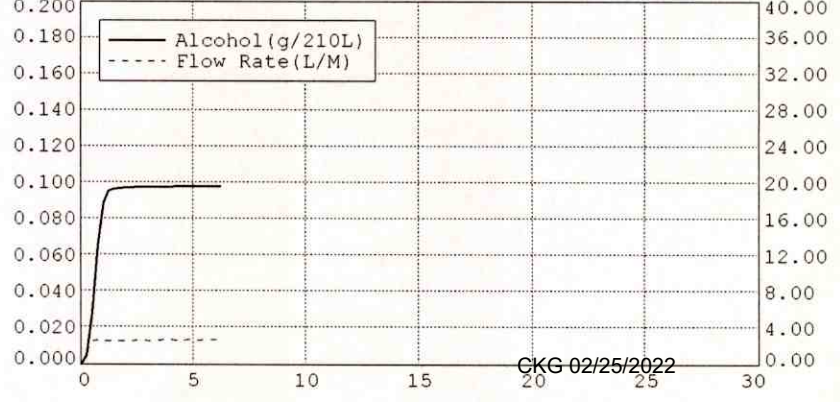
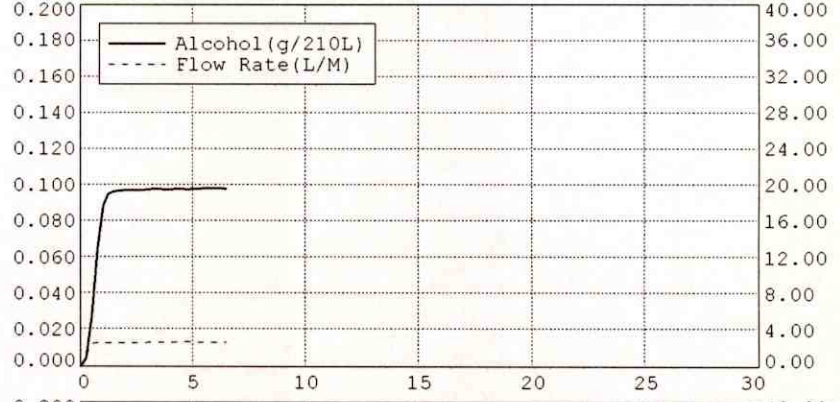
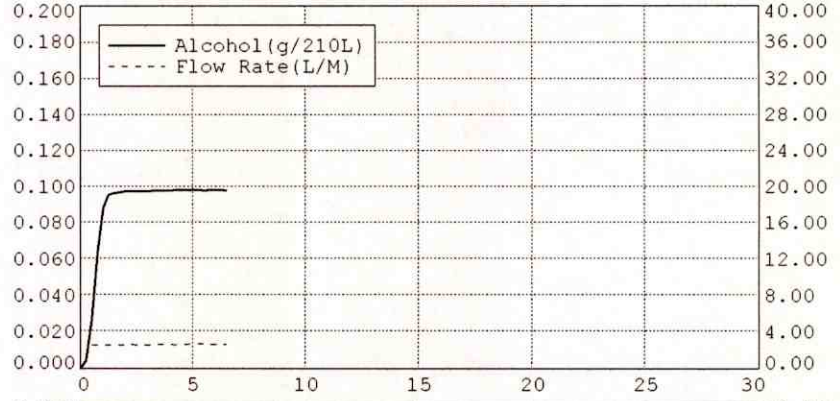
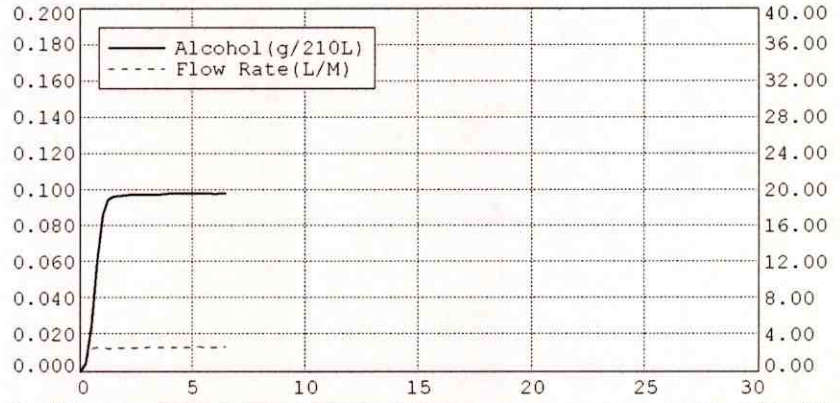
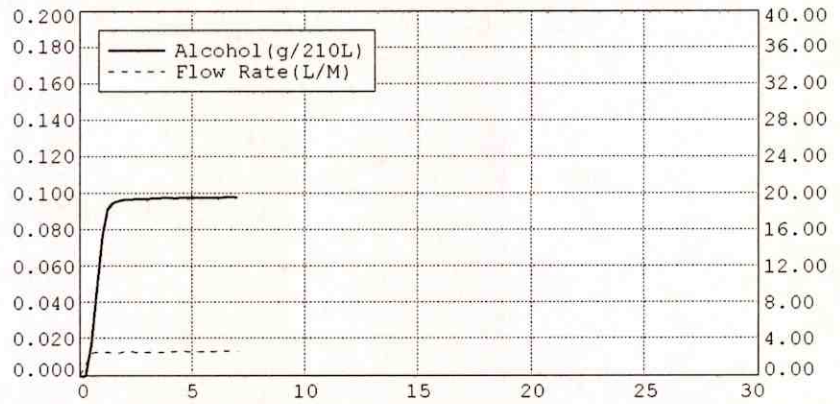
Date: 02/25/2022  
 Time: 10:41:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
 TARGET AT 29.27: 0.098  
 LOT #: AG108404  
 EXPIRATION: 03/25/2023  
 TANK PRESSURE: 547 psi

BLANK TEST	0.000	10:42
INTERNAL STANDARD	VERIFIED	10:42
EXTERNAL STANDARD	0.099	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.099	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.099	10:44
BLANK TEST	0.000	10:45
EXTERNAL STANDARD	0.099	10:46
BLANK TEST	0.000	10:46
EXTERNAL STANDARD	0.099	10:47
BLANK TEST	0.000	10:48

Average = 0.0990  
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

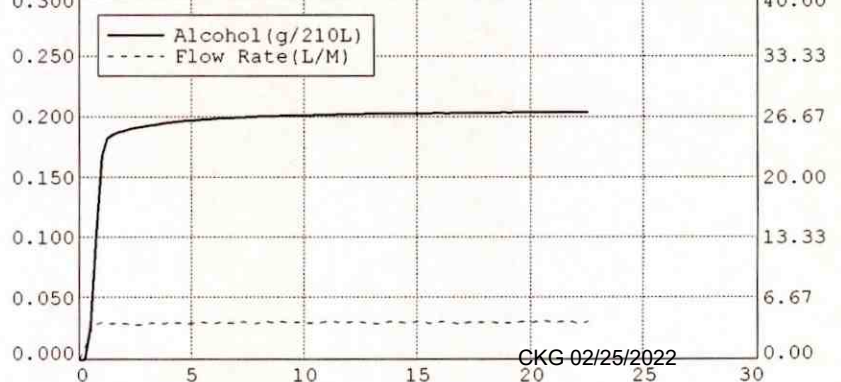
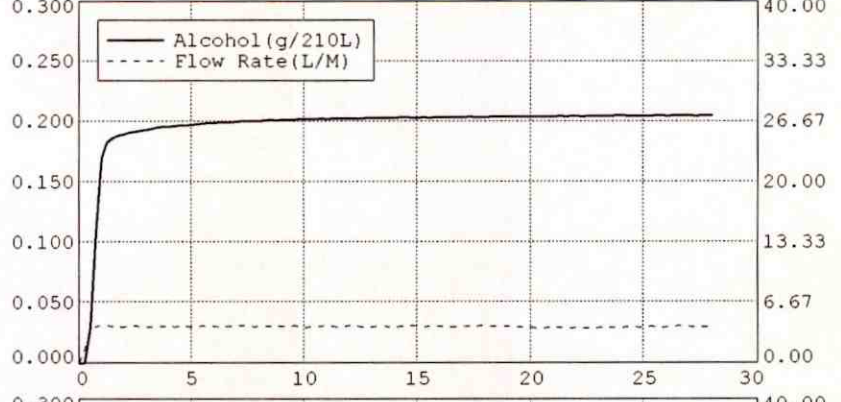
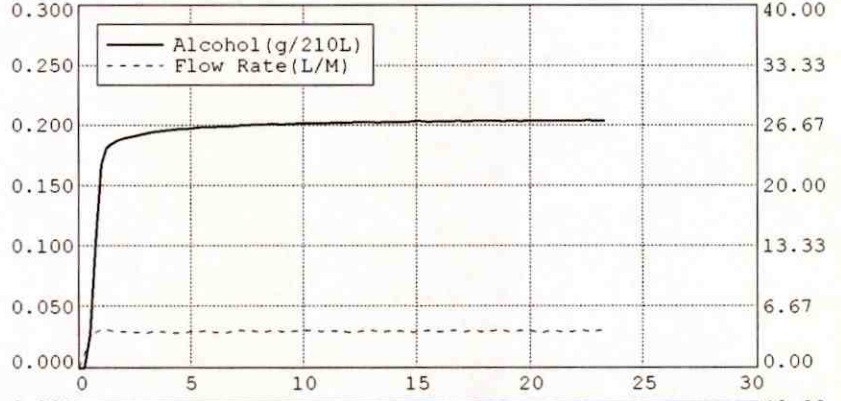
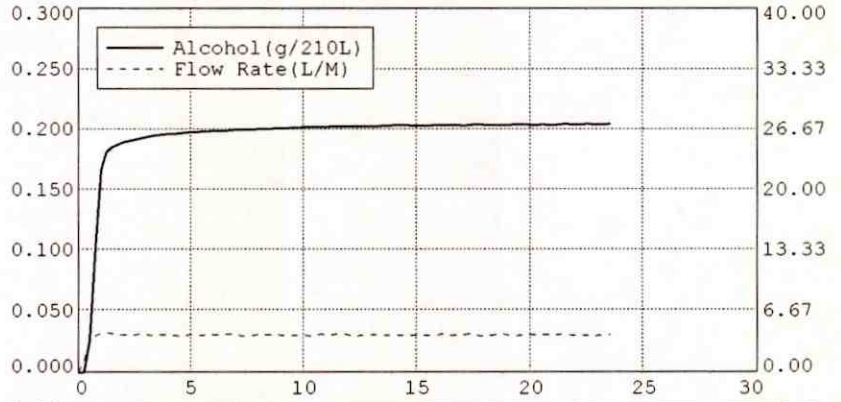
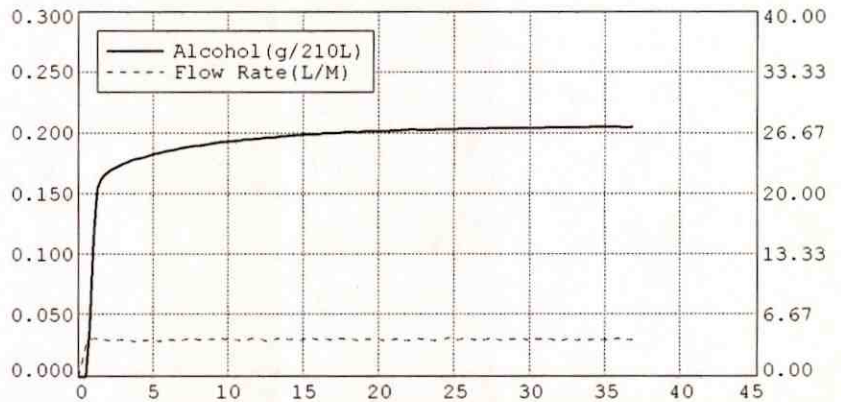
Alaska Department of Public Safety  
 DATAMASTER dmt: 100698

Date: 02/25/2022  
 Time: 11:12:21

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

BLANK TEST	0.000	11:13
INTERNAL STANDARD	VERIFIED	11:13
EXTERNAL STANDARD	0.205	11:14
BLANK TEST	0.000	11:15
EXTERNAL STANDARD	0.204	11:15
BLANK TEST	0.000	11:16
EXTERNAL STANDARD	0.204	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.205	11:18
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.204	11:19
BLANK TEST	0.000	11:20

Average = 0.2044  
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

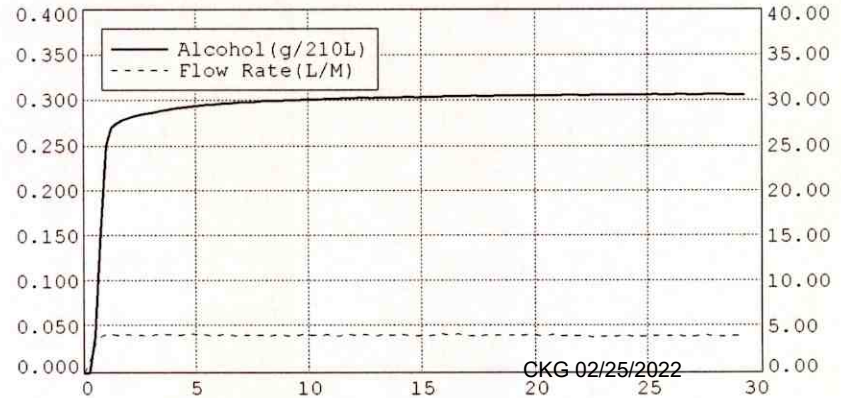
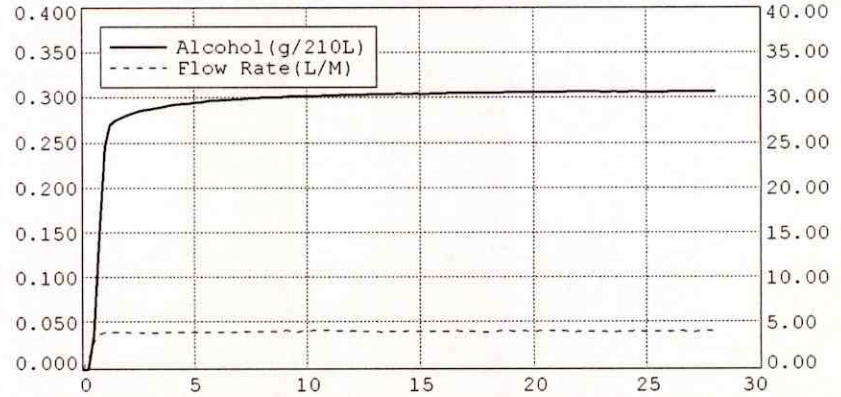
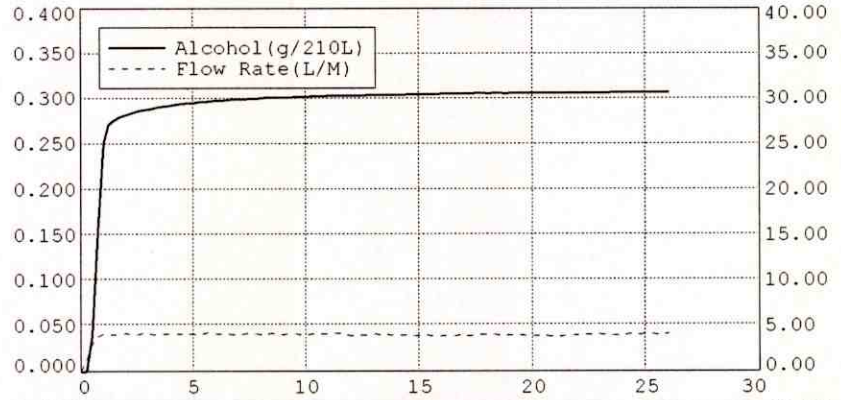
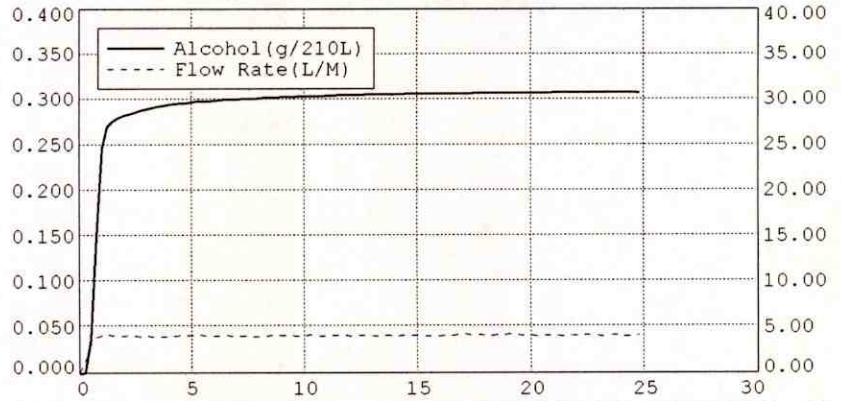
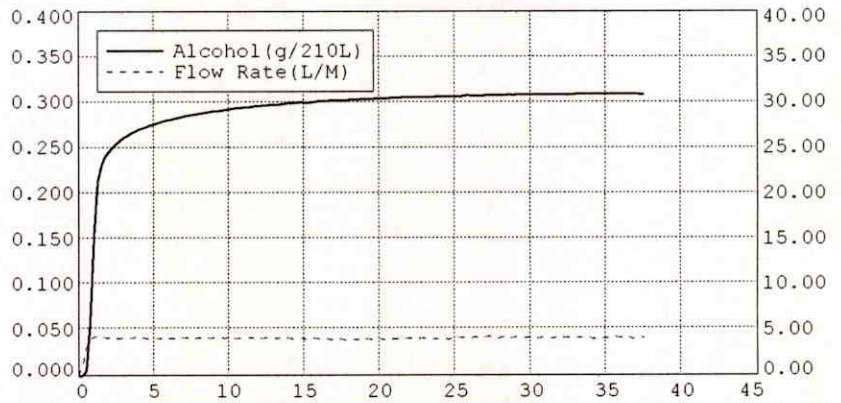
Alaska Department of Public Safety  
 DATAMASTER dmt: 100698

Date: 02/25/2022  
 Time: 11:22:32

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

BLANK TEST	0.000	11:24
INTERNAL STANDARD	VERIFIED	11:24
EXTERNAL STANDARD	0.308	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.307	11:26
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.306	11:28
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.306	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.306	11:31
BLANK TEST	0.000	11:31

Average = 0.3066  
 Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100698

Date: 02/25/2022

Time: 11:39:15

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 29.25: 0.078

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 11:40

0.000 11:40

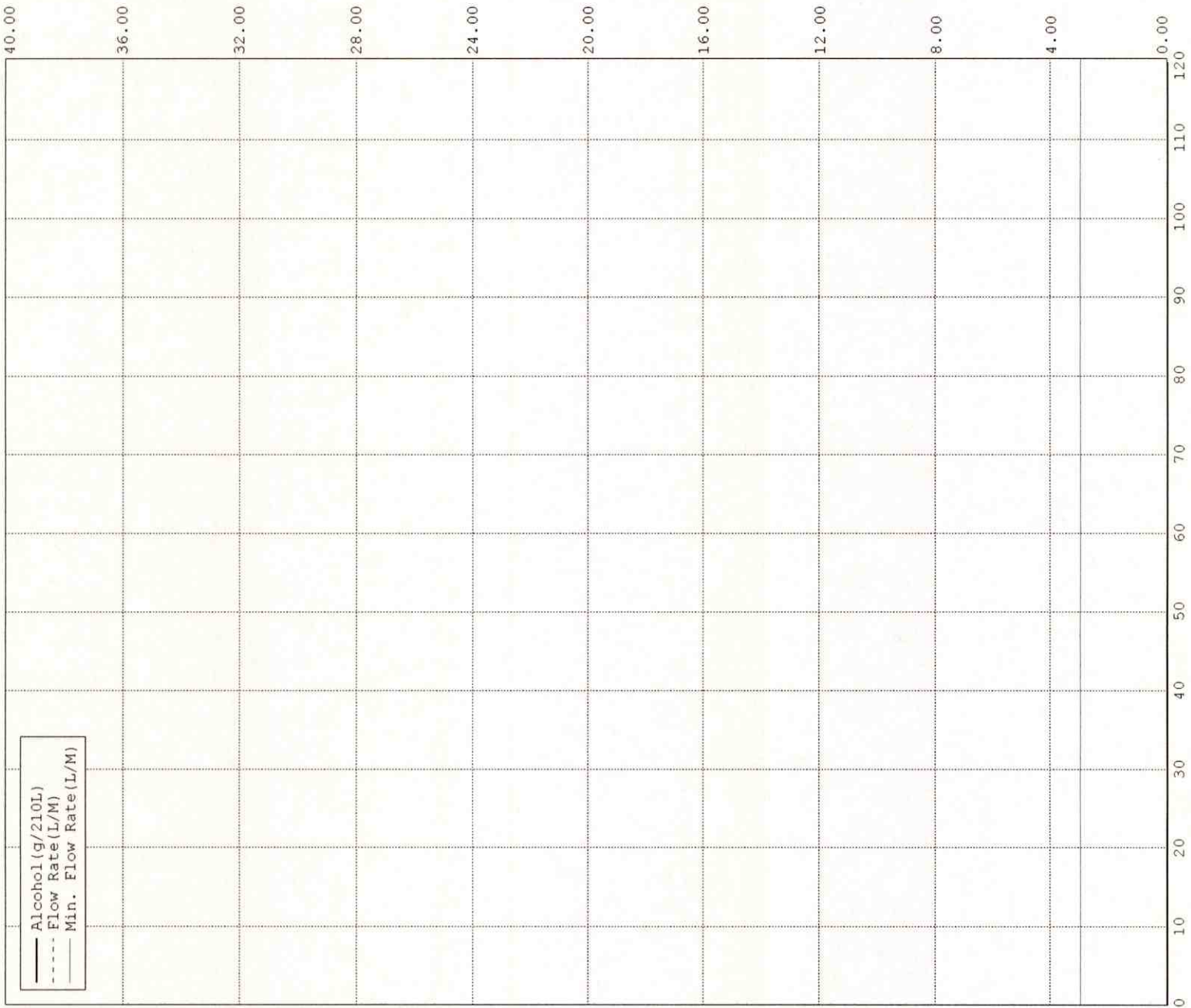
VERIFIED 11:40

0.079 11:40

0.000 11:41

INCOMPLETE 11:43

CKG 02/25/2022



SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100698

Date: 02/25/2022  
Time: 12:36:53

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

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

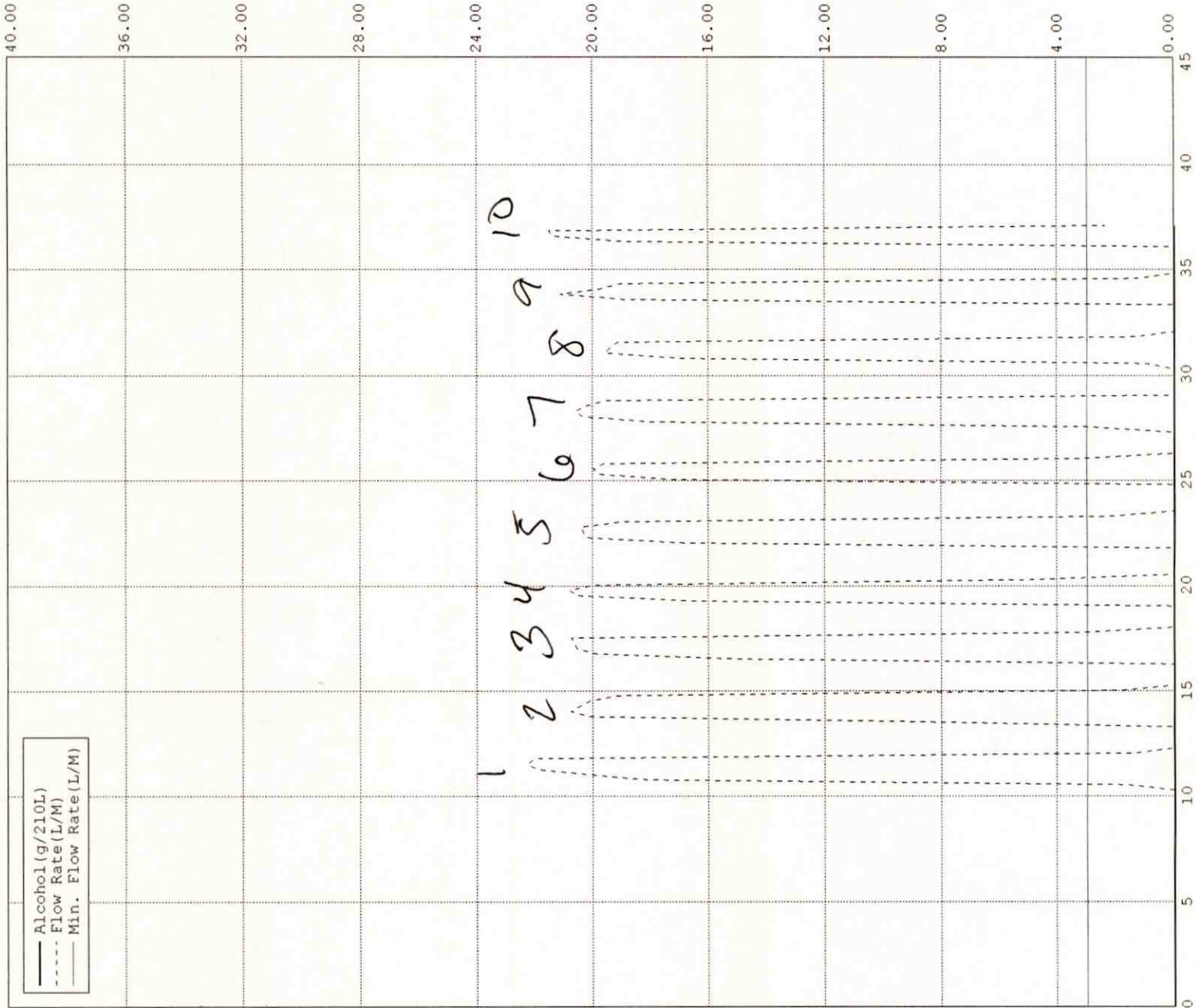
EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.27: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 12:38  
BLANK TEST 0.000 12:38  
INTERNAL STANDARD VERIFIED 12:38  
EXTERNAL STANDARD 0.079 12:38  
BLANK TEST 0.000 12:39  
SUBJECT SAMPLE XXX 12:40

Maximum Attempts Exceeded

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SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100698

Date: 02/25/2022  
Time: 12:54:48

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

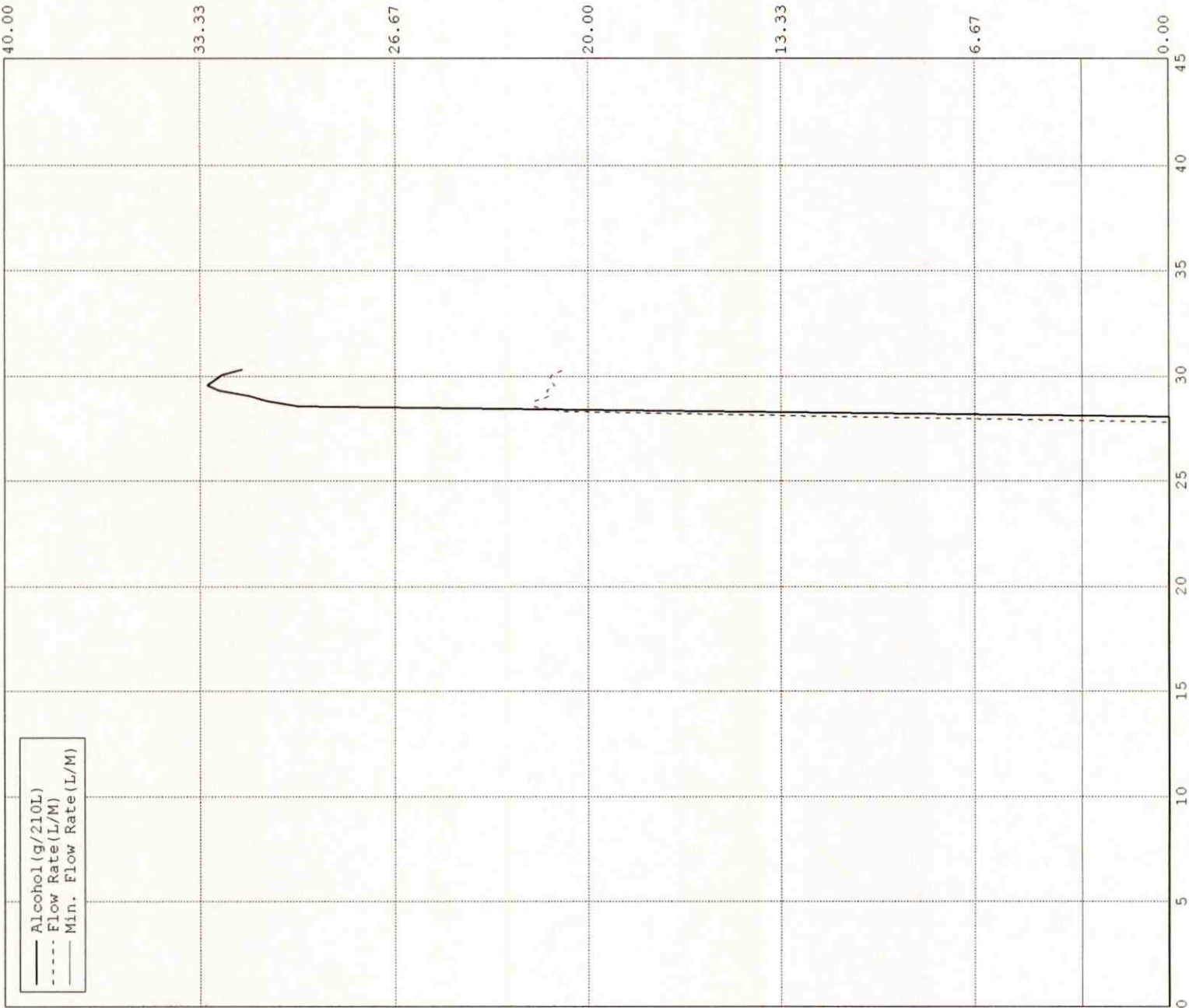
NOMINAL: 0.080  
TARGET AT 29.24: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK

BLANK TEST PASSED 12:55  
INTERNAL STANDARD VERIFIED 12:56  
EXTERNAL STANDARD 0.079 12:56  
BLANK TEST 0.000 12:57  
SUBJECT SAMPLE INVALID 12:57

CKG 02/25/2022

CKG



SUBJECT TEST

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100698  
-----

Date: 02/25/2022  
Time: 13:01:11

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

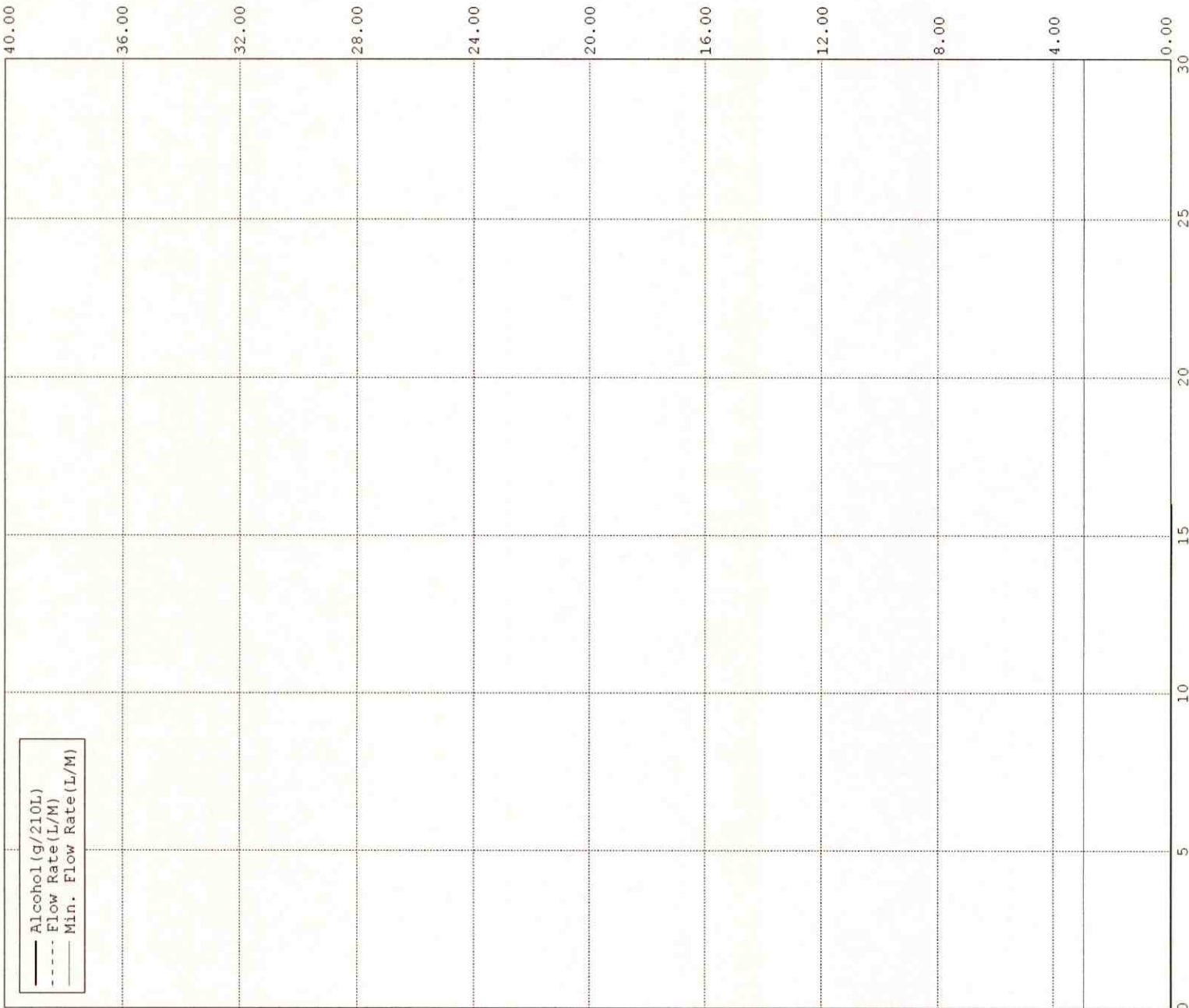
NOMINAL: 0.080  
TARGET AT 29.24: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:02  
BLANK TEST 0.000 13:02  
INTERNAL STANDARD VERIFIED 13:02  
EXTERNAL STANDARD 0.079 13:02  
BLANK TEST 0.000 13:03

RFI DETECTED

CKG 02/25/2022

CKG





SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100698

Date: 02/25/2022  
Time: 13:14:52

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

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

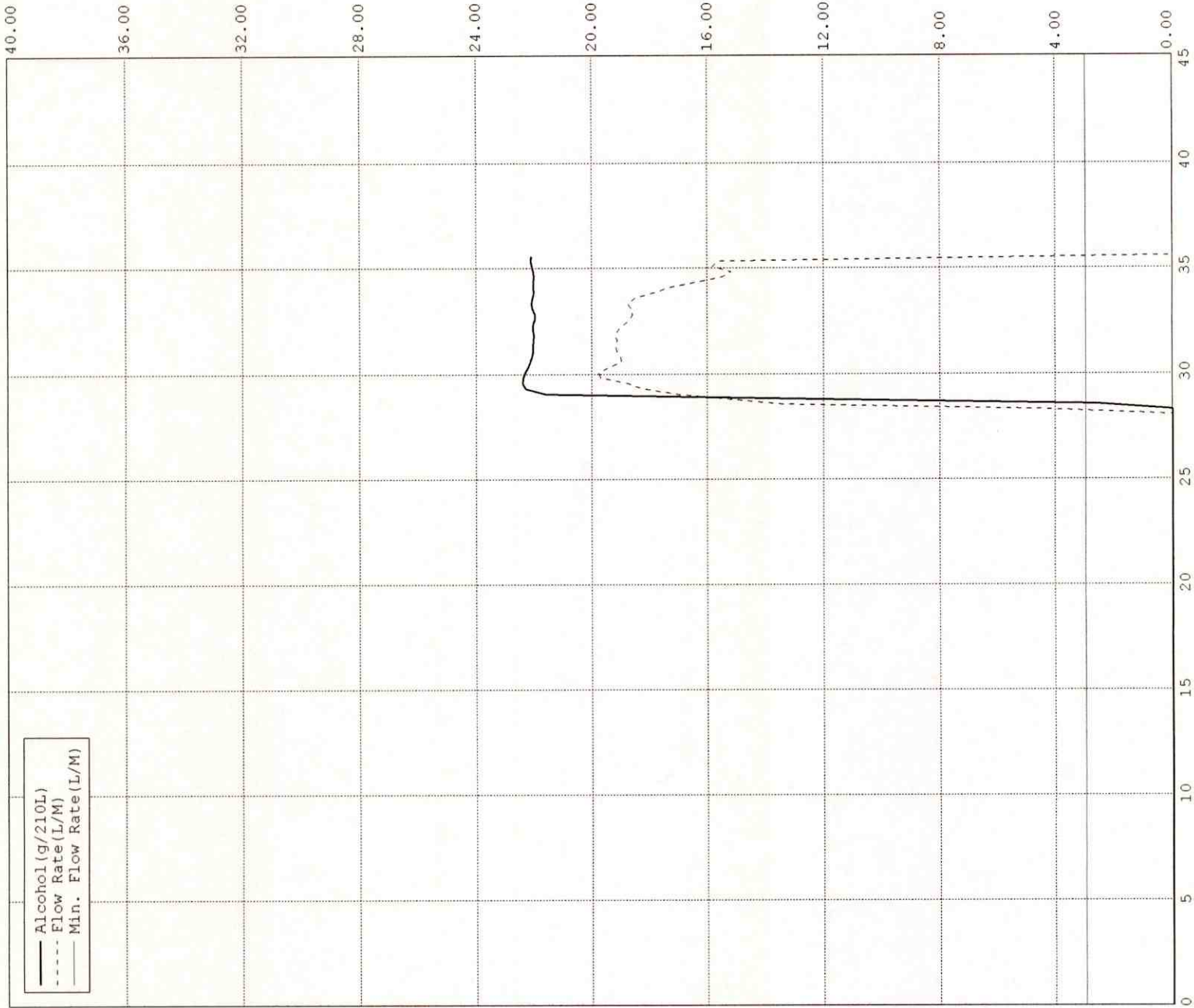
EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.23: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:15  
BLANK TEST 0.000 13:16  
INTERNAL STANDARD VERIFIED 13:16  
Xg = 0.117 (1.84%)  
EXTERNAL STANDARD 0.079 13:16  
X[1] = 0.0787 (0.0000) (0.0029)  
BLANK TEST 0.000 13:17  
SUBJECT SAMPLE XXX 13:18  
X[1] = 0.1106 (-0.0200) (-0.0006)

Interference Detected

Filter 2 Average: 0.0000  
Filter 3 Average: 0.0023  
02/25/2022

CKG 02/25/2022



SUBJECT TEST

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100698  
-----

Date: 02/25/2022  
Time: 13:25:05

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CARLIE GLAISTER  
OPERATOR'S #: 10436

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

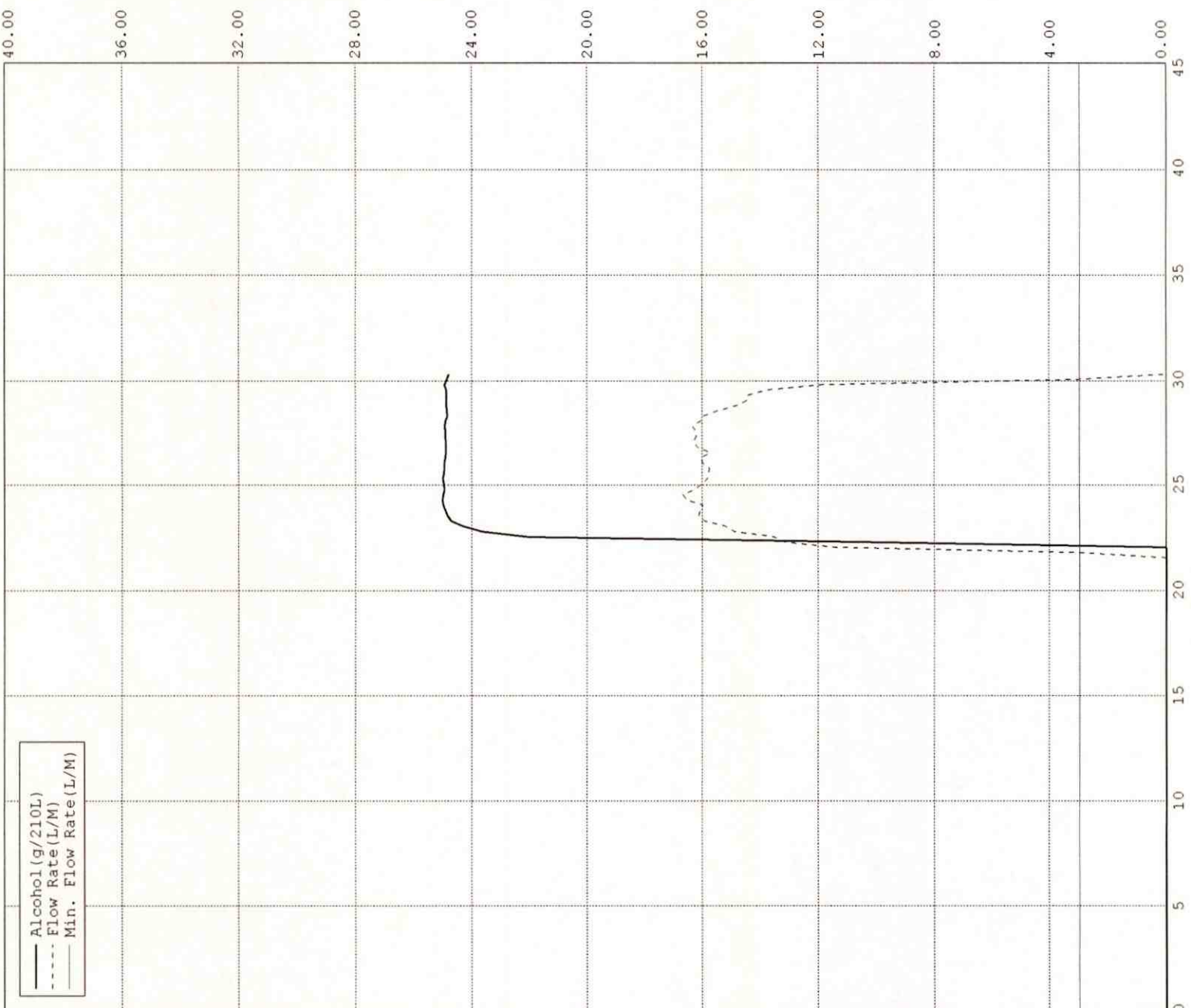
EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.24: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK PASSED 13:26  
BLANK TEST 0.000 13:26  
INTERNAL STANDARD VERIFIED 13:26  
Xq = 0.117 (1.84%)  
EXTERNAL STANDARD 0.079 13:26  
X[1] = 0.0787 (0.0002) (0.0019)  
BLANK TEST 0.000 13:27  
SUBJECT SAMPLE XXX 13:28  
X[1] = 0.1247 (-0.0279) (0.0008)

Interference Detected

CKG

CKG 02/25/2022



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100698

Date: 02/25/2022

Time: 13:30:23

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

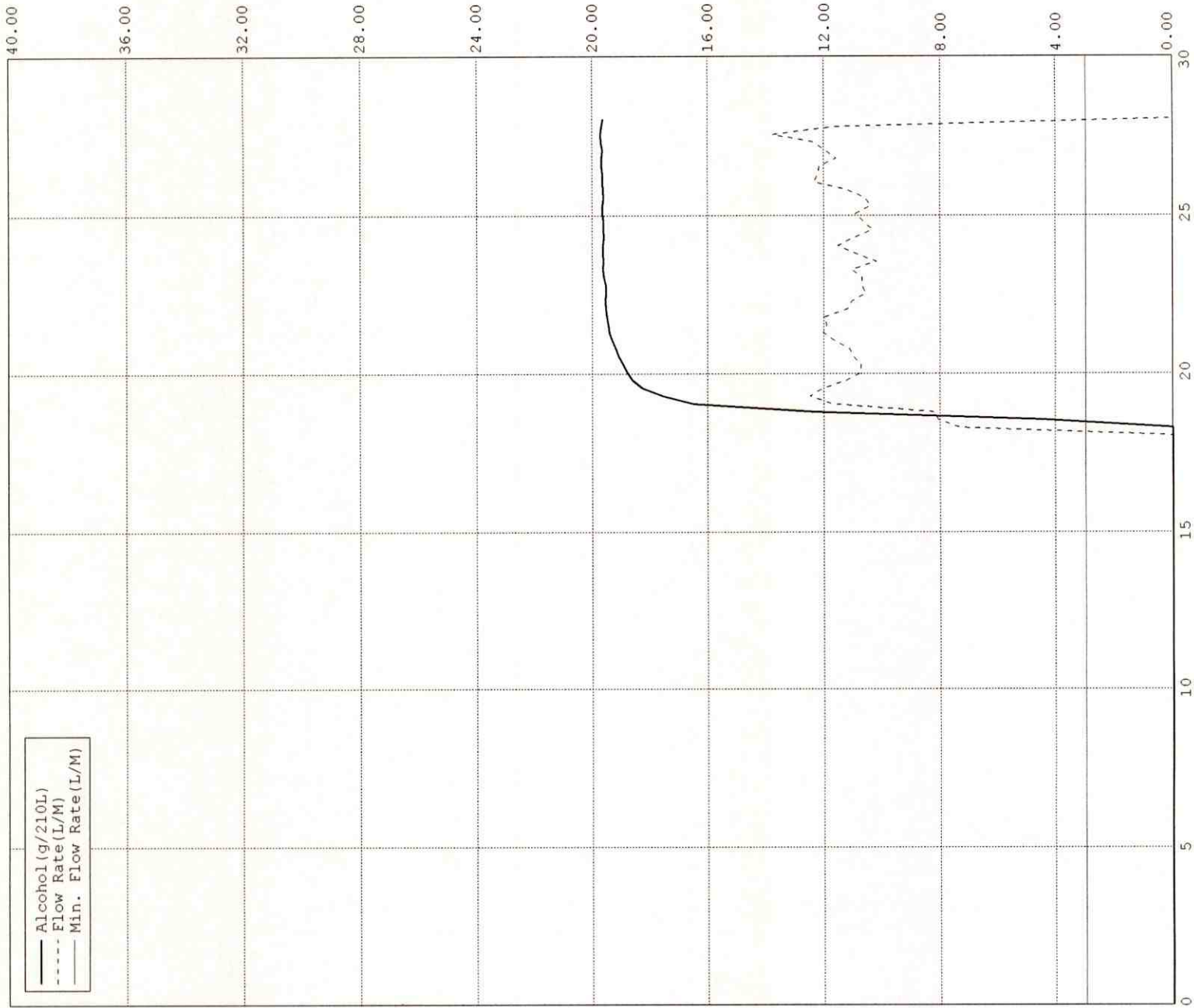
TARGET AT 29.24: 0.078

LOT #: AG018102

EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	13:31
BLANK TEST	0.000	13:31
INTERNAL STANDARD	VERIFIED	13:31
$X_q = 0.117$ (1.76%)		
EXTERNAL STANDARD	0.080	13:31
$X[1] = 0.0796$ (0.0008) (0.0023)		
BLANK TEST	0.000	13:32
SUBJECT SAMPLE (Vol=1.81L)	0.098	13:33
$X[1] = 0.0985$ (-0.0004) (0.0000)		
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.078	13:34
$X[1] = 0.0779$ (-0.0009) (0.0022)		
BLANK TEST	0.000	13:35

CKG 02/25/2022



SUBJECT TEST

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100698  
-----

Date: 02/25/2022  
Time: 13:56:21

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 29.24: 0.078  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	13:57
BLANK TEST	0.000	13:58
INTERNAL STANDARD	VERIFIED	13:58
EXTERNAL STANDARD	0.079	13:58
BLANK TEST	0.000	13:59
SUBJECT SAMPLE (Vol=1.77L)	0.000	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.079	14:00
BLANK TEST	0.000	14:01

CKA

CKG 02/25/2022

