

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100672

Analyst(s): Carlie Plaister

Start Date: 1/3/2024

Date Received: 12/1/2023

Reason for instrument evaluation

Preventative Maintenance

### Visual Inspection

- Clean
- Cermetex Box (modem) is secure
- Double Check Valve secured to wall
- O-ring inspection and ensure 2 replacement O-rings in bag
- Replace missing screws
- Ensure modem cable present
- All tubing and connections secure

As Found Conditions:

Barometric Pressure (inHg): 28.98 Temperature (C): 22.6 Relative Humidity (%): 14

Linearity Test (attached)

0.020g/210L Mnf: <u>Airgas</u>	Lot: <u>AG217902</u>	Exp: <u>6/28/24</u>
0.080g/210L Mnf: <u>Airgas</u>	Lot: <u>AG310901</u>	Exp: <u>4/19/25</u>
0.300g/210L Mnf: <u>Airgas</u>	Lot: <u>AG327804</u>	Exp: <u>10/05/25</u>

Notes

Secured double check valve to wall. Replaced o-ring.  
1st VOC - blank error & wrong software version. Installed 3.02  
Blank error could be from recent use of dust off.

- VOC (attached)
- VOC Internal Standard value  $\leq 3.00\%$
- Verify software version
- Non-Drinking Subject Test (attached)

Condition of item:  Good  Needs Repair

Ready for Adjustment

Ready for Calibration

End Date: 1/3/2024

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All printed copies are uncontrolled.

Approved by: Chemistry Supervisor

LINEARITY CHECK

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 Alaska Department of Public Safety  
 DATAMASTER dmt: 100672  
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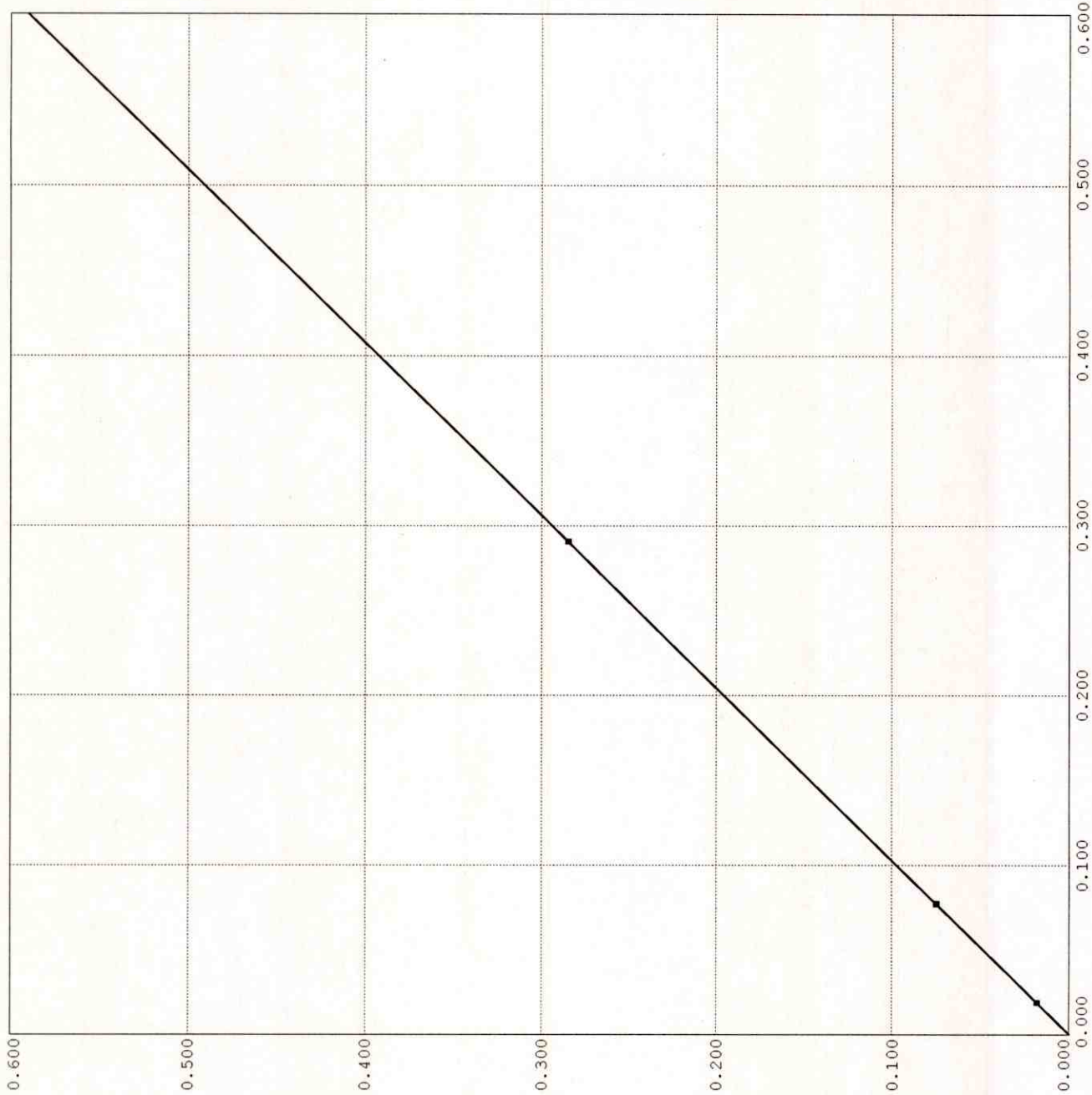
Date: 01/03/2024  
 Time: 13:04:56

SUPERVISOR NAME:  
 CARLIE GLAISTER  
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.019	0.0186	0.0005
0.077	0.0758	0.0004
0.290	0.2854	0.0005

SLOPE = 0.984376  
 R<sup>2</sup> = 1.000000

*CLG*





LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100672

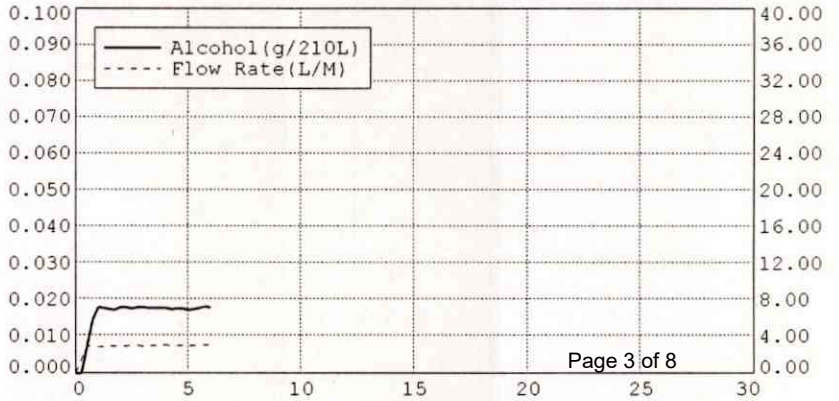
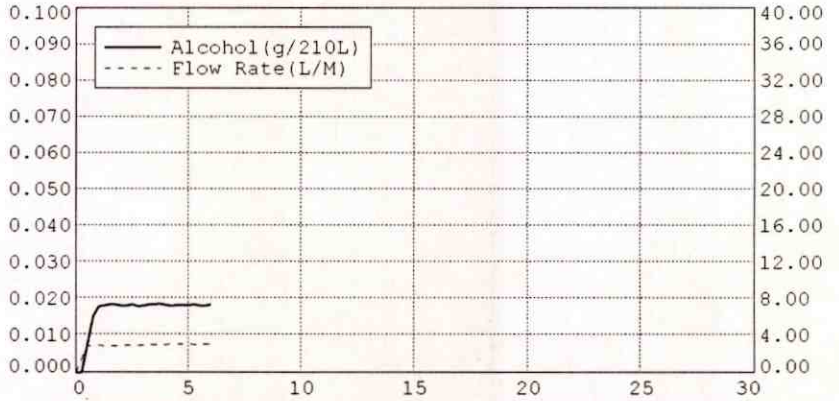
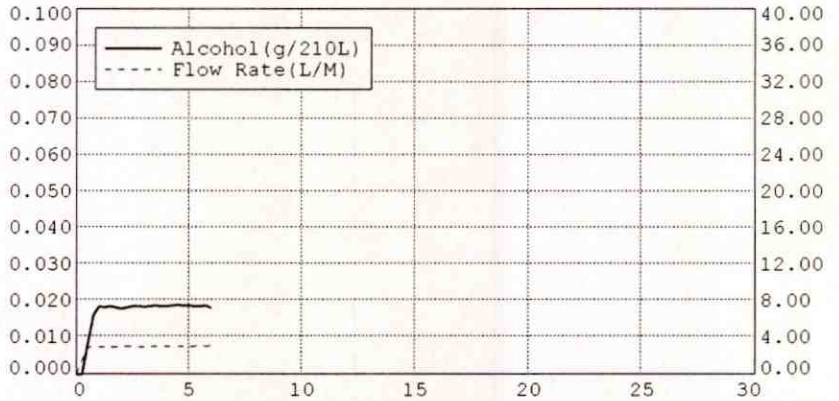
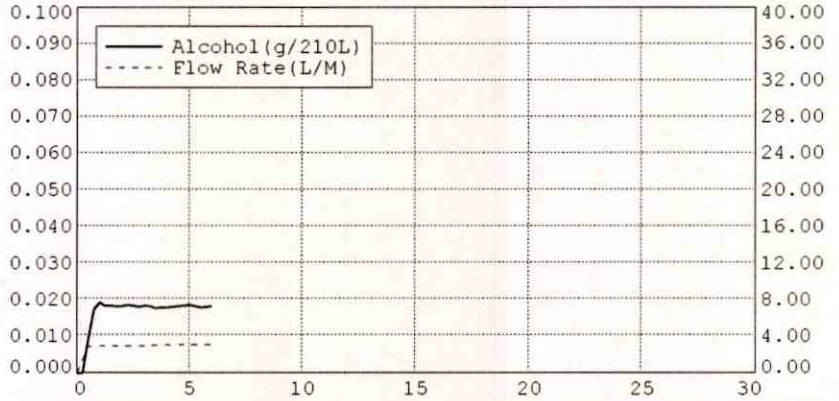
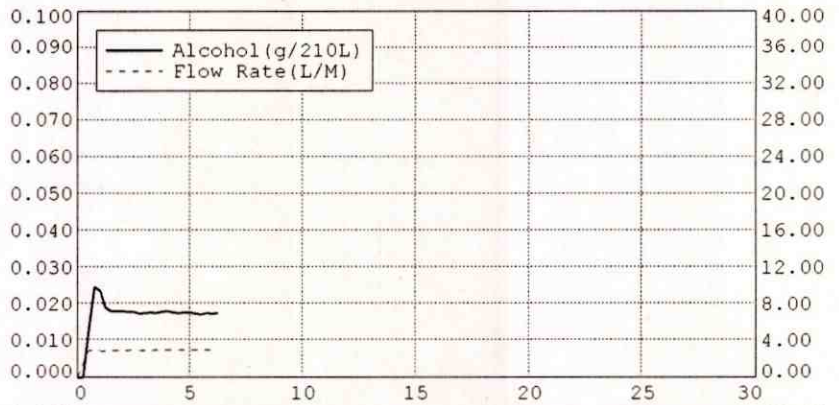
Date: 01/03/2024  
Time: 13:04:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 28.97: 0.019  
LOT #: AG217902  
EXPIRATION: 06/28/2024  
TANK PRESSURE: 554 psi

BLANK TEST	0.000	13:06
INTERNAL STANDARD	VERIFIED	13:06
EXTERNAL STANDARD	0.018	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.019	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.019	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.019	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.018	13:10
BLANK TEST	0.000	13:11

Average = 0.0186  
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
 DATAMASTER dmt: 100672

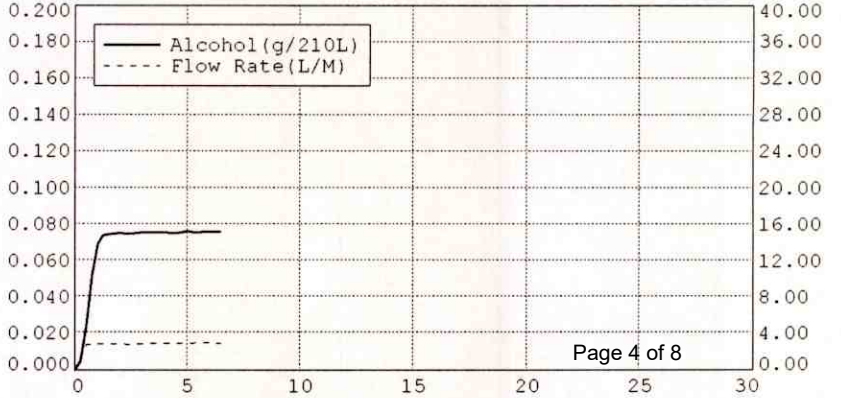
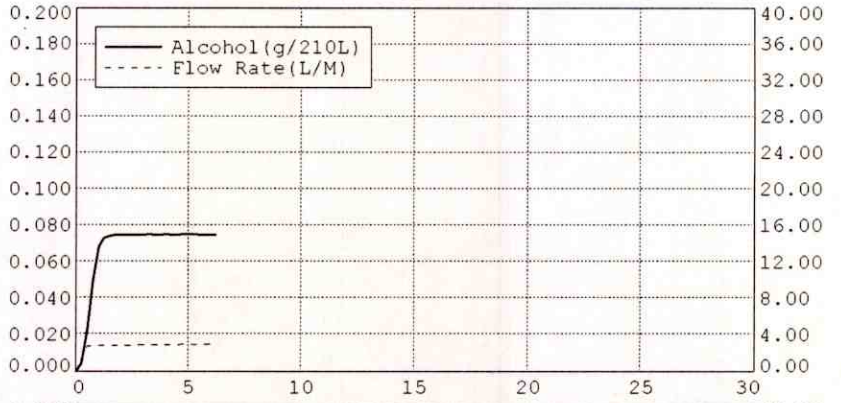
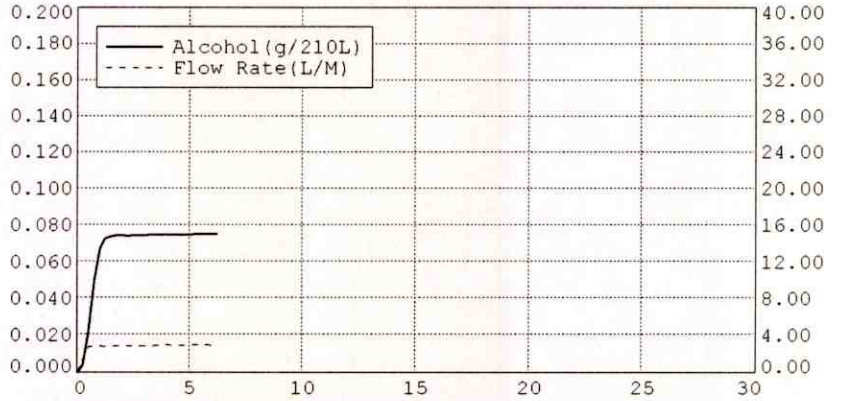
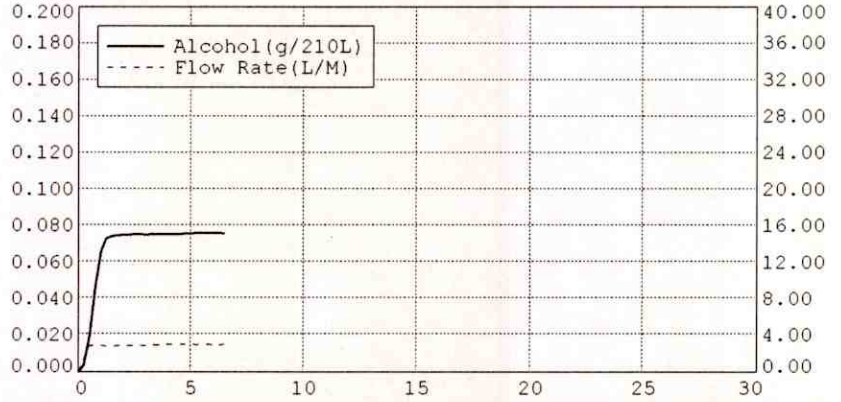
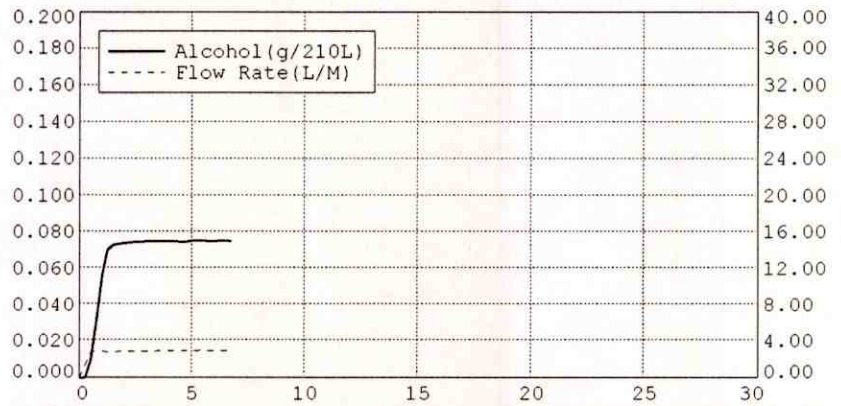
Date: 01/03/2024  
 Time: 13:12:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
 TARGET AT 28.96: 0.077  
 LOT #: AG310901  
 EXPIRATION: 04/19/2025  
 TANK PRESSURE: 463 psi

BLANK TEST	0.000	13:13
INTERNAL STANDARD	VERIFIED	13:13
EXTERNAL STANDARD	0.075	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.076	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.076	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.076	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.076	13:18
BLANK TEST	0.000	13:19

Average = 0.0758  
 Std Dev = 0.0004





LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
 DATAMASTER dmt: 100672

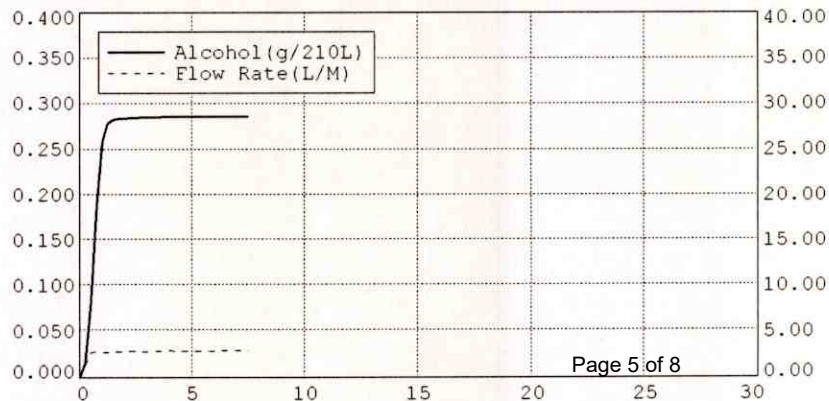
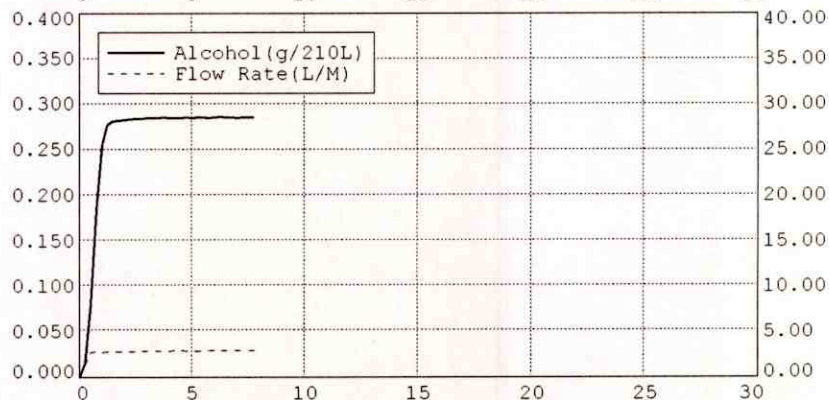
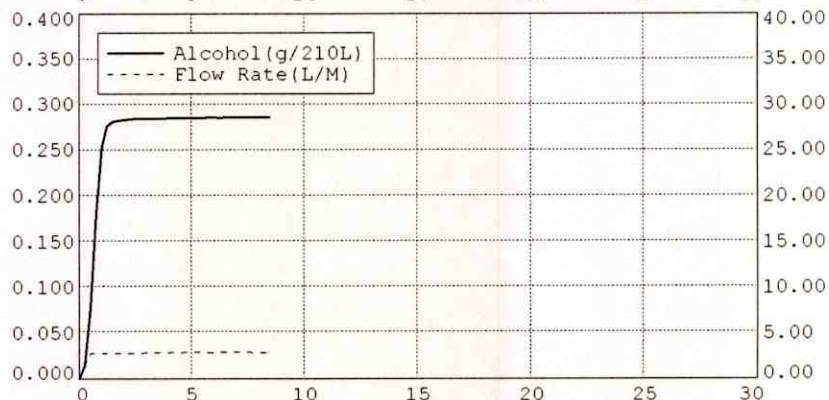
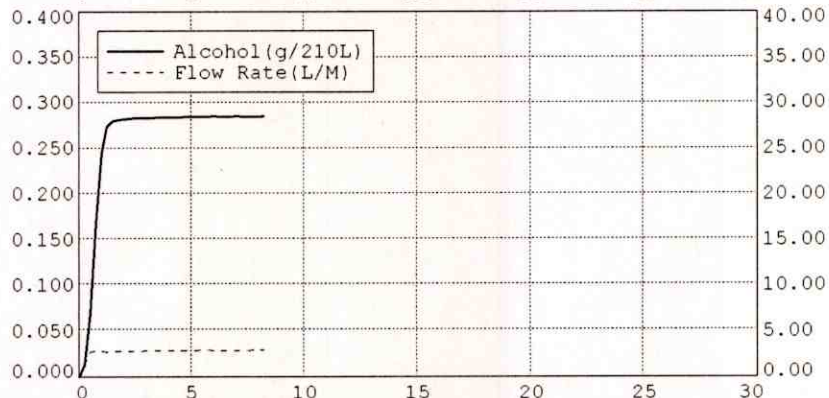
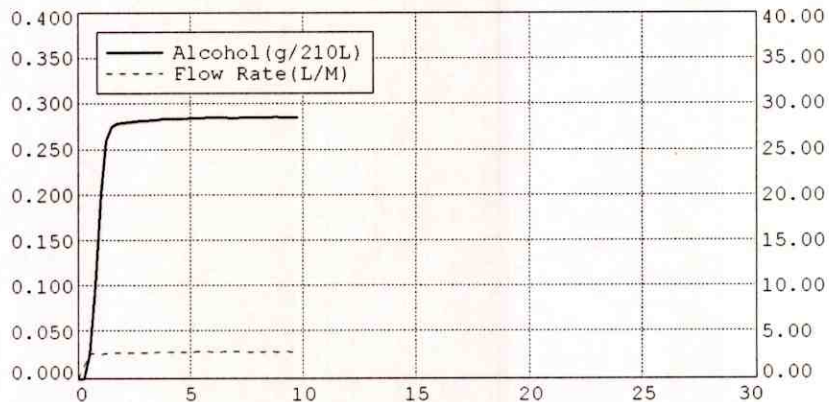
Date: 01/03/2024  
 Time: 13:21:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300  
 TARGET AT 28.94: 0.290  
 LOT #: AG327804  
 EXPIRATION: 10/05/2025  
 TANK PRESSURE: 352 psi

BLANK TEST	0.000	13:22
INTERNAL STANDARD	VERIFIED	13:23
EXTERNAL STANDARD	0.285	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.285	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.286	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.285	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.286	13:27
BLANK TEST	0.000	13:28

Average = 0.2854  
 Std Dev = 0.0005



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100672

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/03/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 28.99: 0.077  
LOT #: AG310901  
EXPIRATION: 04/19/2025  
TANK PRESSURE: 481 psi

BLANK TEST	0.000	12:44
INTERNAL STANDARD	VERIFIED	12:44
EXTERNAL STANDARD	0.074	12:45

Blank Error

## Diagnostic Check

### VERSIONS

DMT: 3.01  
PIC: 3.03  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 49.1°C	PASSED
Breath Tube = 46.0°C	PASSED

### PUMP INFO

Flow Rate = 4.817 L/M	PASSED
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### DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

- (1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.
- (2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.
- (3) I am the Scientific Director of the State Breath Alcohol Program.
- (4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.
- (5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.
- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

\_\_\_\_\_  
Nita J. Bolz  
Scientific Director  
State Breath Alcohol Program

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_



# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100672

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/03/2024

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 28.97: 0.077  
LOT #: AG310901  
EXPIRATION: 04/19/2025  
TANK PRESSURE: 479 psi

BLANK TEST	0.000	12:55
INTERNAL STANDARD	VERIFIED	12:55
Xq = 0.113 (0.47%)		
EXTERNAL STANDARD	0.074	12:55
X[1] = 0.0742 (-0.0017) (0.0024)		
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.074	12:56
X[1] = 0.0743 (-0.0016) (0.0031)		
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.075	12:57
X[1] = 0.0753 (-0.0010) (0.0033)		
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.075	12:59
X[1] = 0.0751 (-0.0006) (0.0026)		
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.076	13:00
X[1] = 0.0758 (-0.0003) (0.0037)		
BLANK TEST	0.000	13:01

Average = 0.0748  
Std Dev = 0.0008

## Diagnostic Check

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

### TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.8°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 2.10 V	PASSED
(1.24 V - 2.90 V)	
Cooler Voltage = 1.96 V	PASSED
(1.18 V - 2.74 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 548 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.0 in	

### PUMP INFO

Flow Rate = 4.806 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 = 0.114 0.55% (0.00% - 4.00%)	PASSED
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SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100672

Date: 01/03/2024  
Time: 13:32:07

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 28.95: 0.077  
LOT #: AG310901  
EXPIRATION: 04/19/2025

DIAGNOSTIC CHECK	PASSED	13:33
BLANK TEST	0.000	13:33
INTERNAL STANDARD	VERIFIED	13:33
EXTERNAL STANDARD	0.076	13:33
BLANK TEST	0.000	13:34
SUBJECT SAMPLE (Vol=1.94L)	0.000	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.076	13:36
BLANK TEST	0.000	13:36

