

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 10/10/2022

Version: 3.0

Instrument #: 100688  
Start Date: 2/22/23  
Date Received: 2/22/23

Analyst(s): C. O. Bryant

### Reason for instrument evaluation

Filter wheel error + internal standard error. Instrument was used for training.

### 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): \_\_\_\_\_ Temperature (C): \_\_\_\_\_ Relative Humidity (%) \_\_\_\_\_

### Linearity Test (attached)

0.020g/210L Mnf: \_\_\_\_\_ Lot: \_\_\_\_\_ Exp: \_\_\_\_\_  
0.080g/210L Mnf: \_\_\_\_\_ Lot: \_\_\_\_\_ Exp: \_\_\_\_\_  
0.300g/210L Mnf: \_\_\_\_\_ Lot: \_\_\_\_\_ Exp: \_\_\_\_\_

### Notes

IS = 7.5%, 7.7%  
Ran 5+ Filter Wheel tests without issue.

- 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: 2/22/23

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100688

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/22/2023

## External Standard Test Values

## Diagnostic Check

### 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 = 47.6°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.96 V PASSED  
(1.18 V - 2.74 V)  
Cooler Voltage = 1.91 V PASSED  
(1.16 V - 2.70 V)  
Bias Voltage = 79 V PASSED  
(47 V - 111 V)  
Chopper Freq = 510 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 30.2 in

### PUMP INFO

Flow Rate = 3.911 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  
(0.002 V <= 0.010 V)

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

### INTERNAL STANDARD

Xq = 0.107 7.50% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100688

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/22/2023

## External Standard Test Values

## 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 = 47.2°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.96 V PASSED  
(1.18 V - 2.74 V)  
Cooler Voltage = 1.91 V PASSED  
(1.16 V - 2.70 V)  
Bias Voltage = 79 V PASSED  
(47 V - 111 V)  
Chopper Freq = 511 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 30.2 in

### PUMP INFO

Flow Rate = 3.895 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 7.77% (0.00% - 4.00%) FAILED

Diagnostic Check Failed