

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100355

Analyst/Technician(s): Carlie Glaister

Start Date: 2/22/24

Date Instrument Received: 2/20/24

Reason for instrument evaluation

Repaired by manufacturer for filter wheel errors.

### Visual Inspection:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Clean   | <input checked="" type="checkbox"/> Replace missing screws            |
| <input checked="" type="checkbox"/> Cermetex Box (modem) is secure                            | <input checked="" type="checkbox"/> Ensure modem cable present        |
| <input checked="" type="checkbox"/> Double Check Valve secured to wall                        | <input checked="" type="checkbox"/> All tubing and connections secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 replacement O-rings in bag |   |
- Attach VOC     ~~VOC Internal Standard  $\leq 3.00\%$~~      Verify software version  
*VOC IS is 19.42% CUG 2/22/24*
- Condition of item:  No apparent damage     Damaged

NOTE: As Found Linearity is required if the instrument is not damaged and the internal standard value is not more than 4.00%

### As Found Conditions (if performed):

*CUG*  
Barometric Pressure (inHg): \_\_\_\_\_ Temperature (C): 2/22/24 Relative Humidity (%): \_\_\_\_\_

Linearity Test Levels (g/210L): 0.020, 0.080, 0.300

Notes: Secured double check valve to wall w/ tape. Replaced O-ring. Reset options due to simulator tube temp error.

~~Attach Non-Drinking Subject Test~~ *CUG 2/22/24*

### Conclusion:

- Ready for Adjustment     Needs Repair  
 Ready for Calibration

Lab Work End Date: 2/22/24

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Approved by: Chemistry Supervisor

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100355

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/22/2024

## External Standard Test Values

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.0°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 48.1°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.80 V PASSED  
(1.08 V - 2.52 V)  
Cooler Voltage = 1.68 V PASSED  
(1.01 V - 2.37 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 524 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.1 in

### PUMP INFO

Flow Rate = 5.114 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 = 0.120 19.42% (0.00% - 4.00%) FAILED

Diagnostic Check Failed