

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020  
Effective: 05/15/2020

Version: DMEF 2020 R0  
Status: Active

Instrument # 100699

Start Date: 10/29/2021

Analysts: Carlie Glaister

Reason for instrument evaluation

Internal standard errors

Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

O-ring inspection and ensure 2 O-rings in replacement bag

Troubleshooting/Repair

Replaced O-ring. Cleaned internal standard with isopropyl alcohol.  
VOC failed due to internal standard being above 4% during diagnostic check.

VOC (attached)

Internal Standard value  $\leq 3.00\%$

Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

End Date: 11/2/2021

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100699

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/02/2021

## External Standard Test Values

## Diagnostic Check

### VERSIONS

DMT: 3.02

PIC: 3.03

Modem: 2.6

Questions: 2.2

### TEMPERATURES

Sample Chamber = 49.1°C  
(44.0°C - 52.0°C)

PASSED

Breath Tube = 40.5°C  
(38.0°C - 50.0°C)

PASSED

### SETTINGS

Lamp Voltage = 1.56 V  
(0.94 V - 2.18 V)

PASSED

Cooler Voltage = 1.56 V  
(0.94 V - 2.18 V)

PASSED

Bias Voltage = 80 V  
(48 V - 112 V)

PASSED

Chopper Freq = 523 Hz  
(475 Hz - 575 Hz)

PASSED

Barometer = 29.2 in

### PUMP INFO

Flow Rate = 4.509 L/M  
(3.500 L/M - 6.500 L/M)

PASSED

### DETECTOR INFO

PUMP ON

(0.002 V <= 0.010 V)

PASSED

PUMP OFF

(0.002 V <= 0.010 V)

PASSED

### FILTER INFO

Filter 1

PASSED

Filter 2

PASSED

Filter 3

PASSED

### INTERNAL STANDARD

FAILED

Xq = 0.075 4.29% (0.00% - 4.00%)

Diagnostic Check Failed