

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 6/27/2017  
Effective: 7/3/2017

Version: DMEF2017 R0  
Status: Active

Instrument # 100688

Date: 8/3/17

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Instrument won't upload, keyboard won't work, detector overflow in the field.

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

replaced modem board. Keyboard works and instrument uploaded successfully.

Internal standard error after detector voltage was readjusted. Detector voltage is stable.

5. VOC (attached)

6. Internal Standard value  $\leq 3.00\%$  Yes  No

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Technician Screen

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DATAMASTER dmt: 100688  
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Date: 08/03/2017  
Time: 2:29 PM

Temperatures (°C)  
Sample Cell: 48.6°C  
Breath Tube: 45.0°C

Current Barometer 30.1 in  
Volume (Ltr) 0.00

Settings  
Lamp: 2.01 V  
Bias: 80 V  
Cooler: 1.83 V  
Chopper: 536 Hz

Voltages (V)  
Flow: 1.02 V  
Detector: 0.065 V

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100688

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/03/2017

## External Standard Test Values

## Diagnostic Check

### 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 = 45.2°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 2.01 V PASSED  
(1.05 V - 2.45 V)  
Cooler Voltage = 1.83 V PASSED  
(1.07 V - 2.49 V)  
Bias Voltage = 80 V PASSED  
(49 V - 113 V)  
Chopper Freq = 537 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 30.1 in

### PUMP INFO

Flow Rate = 4.355 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 = 0.100 5.64% (0.00% - 4.00%) FAILED

Diagnostic Check Failed