

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100347

Date: 05/28/19

Analyst: Derek Walton

1. Reason for instrument evaluation

Gas flow errors

2. 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

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

4. Troubleshooting/Repair

Added modem cable. Ran filter wires separately.

Lamp voltage: 2.47V, Cooler voltage 1.95V, Detector voltage: 0.023V

Current o-ring size incorrect - replaced.

Failed VOC twice on internal standard value (74%).

Gas flow error troubleshooting not completed at this time
due to inability to run external standard tests.

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

Proceed to Close Out

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100347

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/28/2019

External Standard Test Values

Diagnostic Check

VERSIONS

DMT 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)

Breath Tube = 47.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.47 V PASSED
(1.34 V - 3.12 V)

Cooler Voltage = 1.95 V PASSED
(1.13 V - 2.65 V)

Bias Voltage = 79 V PASSED
(47 V - 111 V)

Chopper Freq = 528 Hz PASSED
(475 Hz - 575 Hz)

Barometer = 29.8 in

PUMP INFO

Flow Rate = 5.144 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 = 0.096 4.37% (0.00% - 4.00%) FAILED

Diagnostic Check Failed