

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100413

Start Date: 04/22/21

Analysts: Derck Walton

Reason for instrument evaluation

Refurbished by factory, repaired for tank interference
and simulator timeouts

Visual Inspection

- | | |
|---|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws |
| <input checked="" type="checkbox"/> Cermetex Box is secure | <input checked="" type="checkbox"/> Ensure modem cable present |
| <input checked="" type="checkbox"/> Gas Valve upright or secured to wall | <input checked="" type="checkbox"/> All tubing and connections are secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag | |

Troubleshooting/Repair

Mirror blocks taped, 5 way valve feels smoother, filter wheel
assembly is smoother, source block is tight.

Adjusted lamp and cooler voltages.

- VOC (attached)
 Internal Standard value $\leq 3.00\%$ *NO*
 Verify software version

- | | |
|---|---|
| <input type="checkbox"/> Return to Factory for Repair | <input checked="" type="checkbox"/> Ready for Calibration |
| <input type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |

End Date: 04/22/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100413

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/22/2021

External Standard Test Values

Diagnostic Check

VERSIONS ✓

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 47.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.92 V PASSED
(1.15 V - 2.69 V)
Cooler Voltage = 1.92 V PASSED
(1.15 V - 2.69 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 515 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 5.377 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
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.104 30.20% (0.00% - 4.00%) FAILED

Diagnostic Check Failed