

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100347

Start Date: 09/13/21

Analysts: Derck Walton

Reason for instrument evaluation

Screen issues

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

Instrument has already been refurbished. Replaced o-ring.
Recalibrated display.

VOCs showed 1 gas flow error and 2 internal standard errors.

Recommend calibration and regulator replacement. DJW 09/15/2021

Instrument calibrated on 3/8/2021 after factory refurbishment. Recommend cleaning internal standard plate, replacing regulator, and calibration. DJW 09/15/2021

- VOC (attached)
- Internal Standard value $\leq 3.00\%$ NO - 3.9%
- Verify software version

- Return to Factory for Repair
- Ready for Certification

Further evaluation/repair needed

- Ready for Calibration DJW 09/15/2021
- Proceed to Close Out

End Date: 09/13/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100347

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/13/2021

External Standard Test Values

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 44.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.63 V PASSED
(0.98 V - 2.28 V)
Cooler Voltage = 1.64 V PASSED
(0.98 V - 2.30 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 516 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.593 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.001 V <= 0.010 V)
PUMP OFF PASSED
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.113 4.15% (0.00% - 4.00%) FAILED

Diagnostic Check Failed