

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100416

Start Date: 05/07/2021

Analysts: Derech Walton / Carlie Bailey

Reason for instrument evaluation

Training

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 disassembled for training purposes. Reassembled and evaluation performed afterward.

Instrument still needs to be refurbished. Instrument producing internal standard errors. No further troubleshooting at this time.

- | | |
|--|--|
| <input checked="" type="checkbox"/> VOC (attached) | |
| <input type="checkbox"/> Internal Standard value $\leq 3.00\%$ <u>NO</u> | |
| <input checked="" type="checkbox"/> Verify software version | |
| <input checked="" type="checkbox"/> Return to Factory for Repair | <input type="checkbox"/> Ready for Calibration |
| <input type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |

End Date: 05/12/21

All printed copies are uncontrolled.

Approved by Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100416

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/12/2021

External Standard Test Values

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.5°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.58 V PASSED
(0.96 V - 2.24 V)
Cooler Voltage = 1.64 V PASSED
(0.98 V - 2.30 V)
Bias Voltage = 82 V PASSED
(49 V - 115 V)
Chopper Freq = 531 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.9 in

PUMP INFO

Flow Rate = 4.950 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 = 0.080% 8.17% (0.00% - 4.00%) FAILED

Diagnostic Check Failed