

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100365

Date: 02/11/21

Analyst: Derek Walton

1. Reason for instrument evaluation

Gas flow errors

2. 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 |

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

4. Troubleshooting/Repair

Replaced o-ring. Instrument has not yet been refurbished. Recommend sending instrument to factory due to current status messages. Still experiencing gas flow errors.

5. VOC (attached) VOC did not complete due to gas flow errors JMW 02/11/21

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

7. 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 |

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100365

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/11/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.99: 0.080
LOT #: AG923401
EXPIRATION: 08/22/2021
TANK PRESSURE: 850 psi

BLANK TEST 0.000 15:16
INTERNAL STANDARD ✓ VERIFIED 15:16
Xq = 0.106 (0.41%)

Gas Flow Error

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 = 42.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.20 V PASSED
(1.28 V - 2.98 V)
Cooler Voltage = 1.91 V PASSED
(1.24 V - 2.90 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 514 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.0 in

PUMP INFO

Flow Rate = 4.894 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 = 0.106 0.58% (0.00% - 4.00%) PASSED