

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100418

Date: 09/09/20

Analyst: Derek Walton

1. Reason for instrument evaluation

Refurbished by factory for screen not functioning properly

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. Controller board modification added, source and secondary mirror block taped, filter wheel assembly looks / feels fully functional.

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 #: 100418

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/09/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.02: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 379 psi

BLANK TEST 0.000 15:15
INTERNAL STANDARD ✓ VERIFIED 15:15
Xq = 0.065 (1.70%)
EXTERNAL STANDARD 0.079 15:15
X[1] = 0.0788 (-0.0017) (-0.0013)
BLANK TEST 0.000 15:16
EXTERNAL STANDARD 0.079 15:16
X[1] = 0.0789 (-0.0016) (-0.0011)
BLANK TEST 0.000 15:17
EXTERNAL STANDARD 0.079 15:17
X[1] = 0.0788 (-0.0015) (-0.0014)
BLANK TEST 0.000 15:18
EXTERNAL STANDARD 0.079 15:18
X[1] = 0.0789 (-0.0022) (-0.0008)
BLANK TEST 0.000 15:19
EXTERNAL STANDARD 0.079 15:19
X[1] = 0.0792 (-0.0016) (-0.0009)
BLANK TEST 0.000 15:20

Average = 0.0790
Std Dev = 0.0000

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 = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.85 V PASSED
(1.12 V - 2.60 V)
Cooler Voltage = 1.86 V PASSED
(1.12 V - 2.60 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 509 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.0 in

PUMP INFO

Flow Rate = 5.003 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 ✓ PASSED
Xq = 0.064 2.48% (0.00% - 4.00%)