

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100671

Date: 03/04/2019

Analyst: Derek Walton

1. Reason for instrument evaluation

filter wheel errors during QA of in house instruments.

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

Ran filter wire separately. Restarted instrument. Ran filter test (55 cycles, 0 errors). No further repairs at this time.

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

Instrument still certified. JMW 03/04/19

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100671

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/04/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.20: 0.081
LOT #: AG735001
EXPIRATION: 12/16/2019
TANK PRESSURE: 1072 psi

BLANK TEST 0.000 14:47
INTERNAL STANDARD VERIFIED 14:47
Xq = 0.101 (2.49%)
EXTERNAL STANDARD 0.080 14:47
X[1] = 0.0799 (-0.0023) (0.0016)
BLANK TEST 0.000 14:48
EXTERNAL STANDARD 0.079 14:49
X[1] = 0.0794 (-0.0032) (0.0015)
BLANK TEST 0.000 14:50
EXTERNAL STANDARD 0.079 14:50
X[1] = 0.0795 (-0.0039) (0.0020)
BLANK TEST 0.000 14:51
EXTERNAL STANDARD 0.080 14:51
X[1] = 0.0802 (-0.0030) (0.0008)
BLANK TEST 0.000 14:52
EXTERNAL STANDARD 0.080 14:52
X[1] = 0.0801 (-0.0037) (-0.0002)
BLANK TEST 0.000 14:53

Average = 0.0796
Std Dev = 0.0005

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.5°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.0°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.63 V PASSED
(1.01 V - 2.37 V)
Cooler Voltage = 1.84 V PASSED
(1.00 V - 2.32 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 523 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.2 in

PUMP INFO

Flow Rate = 4.859 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.003 V <= 0.010 V)
PUMP OFF PASSED
(0.005 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

Xq = 0.099 (0.53%) (0.00% - 4.00%)