

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100364

Date: 07/12/18

Analyst: Derck Walton

1. Reason for instrument evaluation

Undefined fatal error in field

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

Added modem cable and new o-ring.

Tank change VOC completed normally. 2 non-drinking subject tests completed normally. Memory at 500 breath records. Confirmed overwrite of oldest breath records with new tests.

Could not reproduce Undefined fatal error.

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 #: 100364

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/12/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.06: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 988 psi

BLANK TEST 0.000 14:03
INTERNAL STANDARD VERIFIED 14:03
Xq = 0.100 (2.50%)
EXTERNAL STANDARD 0.082 14:03
X[1] = 0.0816 (-0.0010) (0.0026)
BLANK TEST 0.000 14:04
EXTERNAL STANDARD 0.082 14:04
X[1] = 0.0820 (-0.0001) (0.0030)
BLANK TEST 0.000 14:05
EXTERNAL STANDARD 0.082 14:05
X[1] = 0.0819 (-0.0007) (0.0020)
BLANK TEST 0.000 14:06
EXTERNAL STANDARD 0.082 14:06
X[1] = 0.0819 (-0.0003) (0.0020)
BLANK TEST 0.000 14:07
EXTERNAL STANDARD 0.082 14:08
X[1] = 0.0820 (-0.0005) (0.0026)
BLANK TEST 0.000 14:08

Average = 0.0820
Std Dev = 0.0000

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 = 45.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.07 V PASSED
(1.16 V - 2.72 V)
Cooler Voltage = 1.94 V PASSED
(1.18 V - 2.76 V)
Bias Voltage = 79 V PASSED
(48 V - 112 V)
Chopper Freq = 508 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 30.1 in

PUMP INFO

Flow Rate = 5.389 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 = 0.100 (2.33%) (0.00% - 4.00%) PASSED