

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0
Status: Active

Instrument # 100368

Date: 7/17/19

Analyst: Colleen O'Bryant

1. Reason for instrument evaluation

Preventative Maintenance

2. Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

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

4. Troubleshooting/Repair

- o uploaded software (v.02 full version)
- o connected modem cable
- o secured check valve to side wall

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 #: 100368

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/17/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 19.41: 0.079
LOT #: AG926101
EXPIRATION: 09/18/2020
TANK PRESSURE: 965 psi

BLANK TEST 0.000 11:01
INTERNAL STANDARD VERIFIED 11:02
Xg = 0.074 (0.46%)
EXTERNAL STANDARD 0.078 11:02
X[1] = 0.0782 (-0.0031) (-0.0032)
BLANK TEST 0.000 11:03
EXTERNAL STANDARD 0.078 11:03
X[1] = 0.0783 (-0.0030) (-0.0024)
BLANK TEST 0.000 11:04
EXTERNAL STANDARD 0.078 11:04
X[1] = 0.0784 (-0.0017) (-0.0021)
BLANK TEST 0.000 11:05
EXTERNAL STANDARD 0.079 11:05
X[1] = 0.0782 (-0.0010) (-0.0012)
BLANK TEST 0.000 11:06
EXTERNAL STANDARD 0.078 11:06
X[1] = 0.0782 (-0.0020) (-0.0020)
BLANK TEST 0.000 11:07

Average = 0.0780
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3793
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 43.5°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.59 V PASSED
(0.94 V - 2.20 V)
Cooler Voltage = 1.76 V PASSED
(1.06 V - 2.46 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 546 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.4 in

PUMP INFO

Flow Rate = 4.792 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
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xg = 0.075 (0.35%) (0.00% - 4.00%) PASSED