

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMEF 2020 R0
Status: Active

Instrument # 100381

Start Date: 11/2/2021

Analysts: Carlisle Glaister

Reason for instrument evaluation

Frequent RFI status messages at agency.
Previous eval marked to send to factory for refurbishment.
Not sending instruments for refurbishment at this time

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 |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 O-rings in replacement bag | |

Troubleshooting/Repair

Set RFI sensitivity. Replaced O-ring.

- | | |
|---|--|
| <input checked="" type="checkbox"/> VOC (attached) | |
| <input checked="" type="checkbox"/> Internal Standard value $\leq 3.00\%$ | |
| <input checked="" type="checkbox"/> Verify software version | |
| <input type="checkbox"/> Return to Factory for Repair | <input type="checkbox"/> Ready for Calibration |
| <input checked="" type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |

End Date: 11/2/2021

All printed copies are uncontrolled.

Approved by Chemistry Supervisor

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100381

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/02/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.27: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1177 psi

| | | |
|-----------------------------------|------------|-------|
| BLANK TEST | 0.000 | 13:15 |
| INTERNAL STANDARD | ✓ VERIFIED | 13:16 |
| Xq = 0.093 (1.34%) | | |
| EXTERNAL STANDARD | 0.076 | 13:16 |
| X[1] = 0.0758 (-0.0035) (-0.0018) | | |
| BLANK TEST | 0.000 | 13:17 |
| EXTERNAL STANDARD | 0.075 | 13:17 |
| X[1] = 0.0752 (-0.0036) (-0.0011) | | |
| BLANK TEST | 0.000 | 13:18 |
| EXTERNAL STANDARD | 0.076 | 13:18 |
| X[1] = 0.0757 (-0.0036) (-0.0018) | | |
| BLANK TEST | 0.000 | 13:19 |
| EXTERNAL STANDARD | 0.076 | 13:19 |
| X[1] = 0.0762 (-0.0030) (-0.0014) | | |
| BLANK TEST | 0.000 | 13:20 |
| EXTERNAL STANDARD | 0.075 | 13:20 |
| X[1] = 0.0755 (-0.0032) (-0.0011) | | |
| BLANK TEST | 0.000 | 13:21 |

Average = 0.0756
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

| | |
|-------------------------|--------|
| Sample Chamber = 49.0°C | PASSED |
| (44.0°C - 52.0°C) | |
| Breath Tube = 48.0°C | PASSED |
| (38.0°C - 50.0°C) | |

SETTINGS

| | |
|-------------------------|--------|
| Lamp Voltage = 1.70 V | PASSED |
| (1.02 V - 2.38 V) | |
| Cooler Voltage = 1.65 V | PASSED |
| (0.97 V - 2.27 V) | |
| Bias Voltage = 79 V | PASSED |
| (47 V - 111 V) | |
| Chopper Freq = 521 Hz | PASSED |
| (475 Hz - 575 Hz) | |
| Barometer = 29.3 in | |

PUMP INFO

| | |
|-------------------------|--------|
| Flow Rate = 4.642 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 | ✓ | PASSED |
| Xq = 0.092 | 0.77% | (0.00% - 4.00%) |