

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100414

Start Date: 12/14/20

Analysts: Derek Walton

Reason for instrument evaluation

Gas flow errors

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

Replaced o-ring. Routed filter wires separately.

Did not encounter any gas flow errors during evaluation.

- VOC (attached)
- Internal Standard value $\leq 3.00\%$
- Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

End Date: 12/14/20

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100414

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/14/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.23: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1200 psi

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 11:50 |
| INTERNAL STANDARD | VERIFIED | 11:50 |
| EXTERNAL STANDARD | 0.077 | 11:50 |
| BLANK TEST | 0.000 | 11:51 |
| EXTERNAL STANDARD | 0.077 | 11:51 |
| BLANK TEST | 0.000 | 11:52 |
| EXTERNAL STANDARD | 0.078 | 11:52 |
| BLANK TEST | 0.000 | 11:53 |
| EXTERNAL STANDARD | 0.077 | 11:54 |
| BLANK TEST | 0.000 | 11:54 |
| EXTERNAL STANDARD | 0.077 | 11:55 |
| BLANK TEST | 0.000 | 11:56 |

Average = 0.0772
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 45.5°C PASSED

PUMP INFO

Flow Rate = 4.669 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100414

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/14/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1190 psi

| | | |
|-------------------|----------|-------|
| BLANK TEST | 0.000 | 13:22 |
| INTERNAL STANDARD | VERIFIED | 13:22 |
| EXTERNAL STANDARD | 0.078 | 13:22 |
| BLANK TEST | 0.000 | 13:23 |
| EXTERNAL STANDARD | 0.077 | 13:23 |
| BLANK TEST | 0.000 | 13:24 |
| EXTERNAL STANDARD | 0.077 | 13:24 |
| BLANK TEST | 0.000 | 13:25 |
| EXTERNAL STANDARD | 0.077 | 13:25 |
| BLANK TEST | 0.000 | 13:26 |
| EXTERNAL STANDARD | 0.077 | 13:26 |
| BLANK TEST | 0.000 | 13:27 |

Average = 0.0772
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

| | |
|-------------------------|--------|
| Sample Chamber = 48.8°C | PASSED |
| Breath Tube = 46.6°C | PASSED |

PUMP INFO

| | |
|-----------------------|--------|
| Flow Rate = 4.724 L/M | PASSED |
|-----------------------|--------|

DETECTOR INFO

| | |
|----------|--------|
| PUMP ON | PASSED |
| PUMP OFF | PASSED |

FILTER INFO

| | |
|----------|--------|
| Filter 1 | PASSED |
| Filter 2 | PASSED |
| Filter 3 | PASSED |

| | |
|-------------------|--------|
| INTERNAL STANDARD | PASSED |
|-------------------|--------|

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100414

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/14/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1175 psi

| | | |
|----------------------------------|----------|-------|
| BLANK TEST | 0.000 | 13:43 |
| INTERNAL STANDARD ✓ | VERIFIED | 13:44 |
| Xq = 0.088 (1.71%) | | |
| EXTERNAL STANDARD | 0.078 | 13:44 |
| X[1] = 0.0777 (-0.0031) (0.0009) | | |
| BLANK TEST | 0.000 | 13:45 |
| EXTERNAL STANDARD | 0.078 | 13:45 |
| X[1] = 0.0776 (-0.0026) (0.0010) | | |
| BLANK TEST | 0.000 | 13:46 |
| EXTERNAL STANDARD | 0.078 | 13:46 |
| X[1] = 0.0776 (-0.0020) (0.0012) | | |
| BLANK TEST | 0.000 | 13:47 |
| EXTERNAL STANDARD | 0.078 | 13:47 |
| X[1] = 0.0777 (-0.0011) (0.0010) | | |
| BLANK TEST | 0.000 | 13:48 |
| EXTERNAL STANDARD | 0.077 | 13:48 |
| X[1] = 0.0773 (-0.0028) (0.0005) | | |
| BLANK TEST | 0.000 | 13:49 |

Average = 0.0778
Std Dev = 0.0004

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 = 41.8°C | PASSED |
| (38.0°C - 50.0°C) | |

SETTINGS

| | |
|-------------------------|--------|
| Lamp Voltage = 1.82 V | PASSED |
| (1.06 V - 2.48 V) | |
| Cooler Voltage = 1.59 V | PASSED |
| (0.97 V - 2.25 V) | |
| Bias Voltage = 79 V | PASSED |
| (47 V - 111 V) | |
| Chopper Freq = 536 Hz | PASSED |
| (475 Hz - 575 Hz) | |
| Barometer = 29.3 in | |

PUMP INFO

| | |
|-------------------------|--------|
| Flow Rate = 4.809 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 |
| (0.002 V <= 0.010 V) | |

FILTER INFO

| | |
|----------|--------|
| Filter 1 | PASSED |
| Filter 2 | PASSED |
| Filter 3 | PASSED |

| | |
|----------------------------------|--------|
| INTERNAL STANDARD ✓ | PASSED |
| Xq = 0.087 0.30% (0.00% - 4.00%) | |