

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100360

Analyst(s): Carlie Glaister

Start Date: 8/25/2022

Reason for instrument evaluation

Internal Standard Errors + Fatal System Error + Communication Error + Burning Smell

Visual Inspection

- Clean
- Cermetex Box (modem) is secure
- Double Check Valve secured to wall
- O-ring inspection and ensure 2 replacement O-rings in bag
- Replace missing screws
- Ensure modem cable present
- All tubing and connections secure

Troubleshooting/Repair

Replaced power supply. Reloaded 3.02 DMT Software. No change in communication error. Replaced controller board with an updated one, no change in communication error. Tried replacing all ribbon cables attached to the SI board per Lintox recommendation after communicating with them for help troubleshooting. This did not work & original ribbon cables were reinstalled. Replaced SI board. This solved communication error. No burning smell noted after power supply was replaced. Replaced O-ring. Detector overflow when attempting VOC. Lamp & cooler nearly maxed to get detector voltage passing. Replaced detector. Detector at max voltage. No detectors available for replacement.

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

- Return to Factory
- Ready for Certification
- Further Evaluation Needed

- Ready for Calibration
- Proceed to Close Out

End Date: 11/11/2022

11/4/2022

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Approved by: Chemistry Supervisor

VOC Internal Standard above 3%. Lamp voltage failed VOC. New detector needed.

see next page

original detector reinstalled. Lamp/cooler/ Detector voltage passing. Lamp & cooler nearly maxed, but w/in passing criteria.

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100360

Analyst(s): Cherie Glaister

Start Date: 8/25/2022

Reason for instrument evaluation

Eval continued

Visual Inspection

- Clean *OK*
- Cermetex Box (modem) is secure *11/4/2022*
- Double Check Valve secured to wall
- O-ring inspection and ensure 2 replacement O-rings in bag
- Replace missing screws
- Ensure modem cable present
- All tubing and connections secure

Troubleshooting/Repair

During review it was noticed that the lamp voltage failed on the VOC in addition to the internal standard. Additionally replacing the SF board changed the serial #, date & time. New detectors were received 11/4/22 & a new detector was installed. The detector voltage was adjusted in technician mode. Put original SD card back in Datamaster. Serial # was corrected in Datamaster. Date & time was set.

Internal standard above 3%. Needs Adjustment.

- VOC (attached) *OK*
- VOC Internal Standard value $\leq 3.00\%$ *11/4/2022*
- Return to Factory
- Ready for Certification
- Further Evaluation Needed
- Verify software version
- Non-Drinking Subject Test (attached) *11/4/2022*
- Ready for Calibration *Adjustment*
- Proceed to Close Out *OK 11/4/2022*

End Date: 11/4/2022

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VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100683

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/31/2009

External Standard Test Values

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 = 43.9°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.54 V FAILED
(1.00 V - 2.34 V)
Cooler Voltage = 1.95 V PASSED
(1.00 V - 2.32 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 523 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.706 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.004 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

Xq = 0.108 4.50% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100360

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/04/2022

External Standard Test Values

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 44.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 2.01 V PASSED
(1.00 V - 2.34 V)
Cooler Voltage = 1.66 V PASSED
(1.00 V - 2.32 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 522 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.5 in

PUMP INFO

Flow Rate = 4.739 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
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.119 14.91% (0.00% - 4.00%) FAILED

Diagnostic Check Failed