

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100396

Analyst(s): Carlie Glaister

Start Date: 2/18/22

Reason for instrument evaluation

Detector overflow errors

Visual Inspection

- | | |
|---|---|
| <input checked="" type="checkbox"/> Clean | <input checked="" type="checkbox"/> Replace missing screws |
| <input checked="" type="checkbox"/> Cermetex Box (modem) is secure | <input checked="" type="checkbox"/> Ensure modem cable present |
| <input checked="" type="checkbox"/> Double Check Valve secured to wall | <input checked="" type="checkbox"/> All tubing and connections secure |
| <input checked="" type="checkbox"/> O-ring inspection and ensure 2 replacement O-rings in bag | |

Troubleshooting/Repair

Adhered double check valve to wall. No O-ring on regulator, added O-ring.
Troubleshoot detector voltage, which would increase after turning instrument on/off while lamp/bias/coder/chopper stayed stable. Replacement detectors yielded similar outcome. Reinstalled original detector. screw on controller board not tightening to green detector wire appropriately. Controller board removed.
Replace w/ new modified controller board when they are received. Detector may or may not need to be replaced as well

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

End Date: 2/18/2022

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Approved by: Chemistry Supervisor

CLG
2/18/22