

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100670

Start Date: 7/22/20

Analysts: C. O. Bryant

Reason for instrument evaluation

Preventative Maintenance

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

- Bottom right screw of lid is broken off + can't be replaced. Lid remains secure with three screws
- Attached 2 replacement O-rings
- Replaced regulator O-ring
- Installed full version of ~~2.00~~ 3.02 software

- VOC (attached)
- Internal Standard value $\leq 3.00\%$
- 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: 7/22/20

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100670

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/22/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 318 psi

BLANK TEST	0.000	09:07
INTERNAL STANDARD	VERIFIED	09:08
Xq = 0.088	(1.08%)	
EXTERNAL STANDARD	0.079	09:08
X[1] = 0.0787	(0.0003) (-0.0012)	
BLANK TEST	0.000	09:09
EXTERNAL STANDARD	0.079	09:09
X[1] = 0.0786	(0.0005) (-0.0003)	
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.078	09:10
X[1] = 0.0784	(0.0000) (-0.0009)	
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.079	09:11
X[1] = 0.0791	(0.0006) (-0.0005)	
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.079	09:12
X[1] = 0.0790	(-0.0002) (-0.0005)	
BLANK TEST	0.000	09:13

Average = 0.0788
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.1°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.72 V	PASSED
(1.05 V - 2.45 V)	
Cooler Voltage = 1.76 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

PUMP INFO

Flow Rate = 4.958 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 (1.23%) (0.00% - 4.00%)