

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100361

Start Date: 09/04/20

Analysts: Derek Walton

Reason for instrument evaluation

Filter 2/3 won't zero, internal standard error, blank 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

Source block loose - Tightened.

Recommend calibration due to nature of status messages.

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

- Return to Factory for Repair
- Ready for Certification

- Ready for Calibration
- Proceed to Close Out

End Date: 09/04/20

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/04/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 436 psi

BLANK TEST	0.000	12:35
INTERNAL STANDARD	✓ VERIFIED	12:36
Xq = 0.082 (2.85%)		
EXTERNAL STANDARD	0.076	12:36
X[1] = 0.0765 (0.0012) (0.0038)		
BLANK TEST	0.000	12:37
EXTERNAL STANDARD	0.077	12:37
X[1] = 0.0766 (0.0009) (0.0031)		
BLANK TEST	0.000	12:38
EXTERNAL STANDARD	0.077	12:38
X[1] = 0.0768 (0.0004) (0.0030)		
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.077	12:39
X[1] = 0.0769 (0.0010) (0.0027)		
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.077	12:40
X[1] = 0.0770 (0.0004) (0.0029)		
BLANK TEST	0.000	12:41

Average = 0.0768
Std Dev = 0.0004

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.9°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 2.11 V	PASSED
(1.28 V - 3.00 V)	
Cooler Voltage = 1.91 V	PASSED
(1.15 V - 2.67 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 524 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

PUMP INFO

Flow Rate = 4.292 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 ✓	PASSED
Xq = 0.081 2.19% (0.00% - 4.00%)	