

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100378

Start Date: 03/18/21

Analysts: Derek Walton

Reason for instrument evaluation

Preventive maintenance due

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

Routed filter wires separately. Added modem line.
Changed o-ring.
Recommend factory refurbishment.

- 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: 03/18/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100378

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/18/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.40: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 925 psi

BLANK TEST	0.000	14:50
INTERNAL STANDARD	✓ VERIFIED	14:50
Xq = 0.080 (2.23%)		
EXTERNAL STANDARD	0.076	14:50
X[1] = 0.0757 (-0.0035) (-0.0011)		
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.076	14:51
X[1] = 0.0758 (-0.0028) (-0.0003)		
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.076	14:52
X[1] = 0.0759 (-0.0035) (-0.0002)		
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.076	14:53
X[1] = 0.0762 (-0.0035) (0.0000)		
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.076	14:54
X[1] = 0.0762 (-0.0033) (0.0004)		
BLANK TEST	0.000	14:55

Average = 0.0760
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.55 V	PASSED
(0.93 V - 2.17 V)	
Cooler Voltage = 1.44 V	PASSED
(0.89 V - 2.09 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 525 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.435 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	✓	PASSED
Xq = 0.080 2.23% (0.00% - 4.00%)		