

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100400

Start Date: 6/29/21

Analysts: Colleen 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

Software updated/confirmed @ 3.02

- 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: 6/29/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100420

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/30/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.87: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 432 psi

BLANK TEST	0.000	09:49
INTERNAL STANDARD	VERIFIED	09:49
Xq = 0.079 (0.22%)		
EXTERNAL STANDARD	0.078	09:49
X[1] = 0.0775 (-0.0018) (0.0013)		
BLANK TEST	0.000	09:50
EXTERNAL STANDARD	0.079	09:51
X[1] = 0.0790 (-0.0019) (0.0004)		
BLANK TEST	0.000	09:51
EXTERNAL STANDARD	0.078	09:52
X[1] = 0.0782 (-0.0031) (-0.0001)		
BLANK TEST	0.000	09:53
EXTERNAL STANDARD	0.079	09:53
X[1] = 0.0788 (-0.0014) (0.0004)		
BLANK TEST	0.000	09:54
EXTERNAL STANDARD	0.079	09:54
X[1] = 0.0792 (0.0006) (0.0010)		
BLANK TEST	0.000	09:55

Average = 0.0786
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 48.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.89 V	PASSED
(1.10 V - 2.58 V)	
Cooler Voltage = 1.71 V	PASSED
(1.01 V - 2.35 V)	
Bias Voltage = 80 V	PASSED
(47 V - 111 V)	
Chopper Freq = 521 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

PUMP INFO

Flow Rate = 5.104 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 = 0.079 0.98% (0.00% - 4.00%)	