

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100382

Start Date: 11/9/2021

Analysts: Carlie Plaister

Reason for instrument evaluation

Regulator needed to be replaced. Previous evaluation recommended returning instrument to manufacturer for repair & refurbishment. We are not sending instruments out for refurbishment at this time.

Visual Inspection

- | | |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Clean | <input 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

Replaced the regulator. Replaced the o-ring.

- 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: 11/9/2021

All printed copies are uncontrolled.

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100382

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 11/09/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 748 psi

BLANK TEST	0.000	13:49
INTERNAL STANDARD	VERIFIED	13:50
Xq = 0.093 (2.20%)		
EXTERNAL STANDARD	0.077	13:50
X[1] = 0.0767 (-0.0011) (-0.0015)		
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.077	13:51
X[1] = 0.0771 (-0.0002) (0.0004)		
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.078	13:52
X[1] = 0.0777 (0.0012) (0.0007)		
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.077	13:53
X[1] = 0.0767 (-0.0001) (-0.0001)		
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.077	13:54
X[1] = 0.0773 (-0.0004) (0.0012)		
BLANK TEST	0.000	13:55

Average = 0.0772
Std Dev = 0.0004

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 = 45.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.60 V	PASSED
(0.98 V - 2.28 V)	
Cooler Voltage = 1.65 V	PASSED
(1.03 V - 2.39 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 544 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

PUMP INFO

Flow Rate = 4.936 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 = 0.093 2.11% (0.00% - 4.00%)