

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF 2020 R0
Status: Active

Instrument # 100412

Start Date: 02/17/21

Analysts: Derek Walton

Reason for instrument evaluation

Internal standard error

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

Taped mirror block cover back down. Adjusted lamp and cooler voltages.

Interference detected occurred on VOC during evaluation.

Changed tank and VOC completed normally.

Recommend return to factory for refurbishment.

- | | |
|---|--|
| <input checked="" type="checkbox"/> VOC (attached) | |
| <input checked="" type="checkbox"/> Internal Standard value $\leq 3.00\%$ | |
| <input checked="" type="checkbox"/> Verify software version | |
| <input checked="" type="checkbox"/> Return to Factory for Repair | <input type="checkbox"/> Ready for Calibration |
| <input type="checkbox"/> Ready for Certification | <input type="checkbox"/> Proceed to Close Out |

End Date: 02/17/21

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100412

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 02/17/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.43: 0.079
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 976 psi

BLANK TEST	0.000	15:06
INTERNAL STANDARD	✓ VERIFIED	15:06
Xq = 0.104 (0.67%)		
EXTERNAL STANDARD	0.077	15:07
X[1] = 0.0770 (-0.0017) (0.0026)		
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.077	15:08
X[1] = 0.0771 (-0.0003) (0.0021)		
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.077	15:09
X[1] = 0.0772 (-0.0003) (0.0026)		
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.077	15:10
X[1] = 0.0767 (-0.0005) (0.0019)		
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.076	15:11
X[1] = 0.0758 (-0.0014) (0.0011)		
BLANK TEST	0.000	15:12

Average = 0.0768
Std Dev = 0.0004

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 = 43.8°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.78 V	PASSED
(1.07 V - 2.49 V)	
Cooler Voltage = 1.87 V	PASSED
(1.04 V - 2.44 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 531 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.4 in	

PUMP INFO

Flow Rate = 4.524 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 = 0.103 1.84%	(0.00% - 4.00%)	