

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 04/03/2018
Effective: 04/04/2018

Version: DMEF2018 R0
Status: Active

Instrument # 100689

Date: 12/12/19

Analyst: Derck Walton

1. Reason for instrument evaluation

Interference detected on VOCs

2. 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 |

3. O-ring inspection and ensure 2 O-rings in replacement bag

4. Troubleshooting/Repair

Swapped out breath hose due to power connector not fitting very well.

Detector voltage high. Adjusted voltages.

Interference detected on VOC - recommend calibration. Second VOC passed.

5. VOC (attached)

6. Internal Standard value $\leq 3.00\%$ Yes No

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100689

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/12/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.01: 0.078
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1083 psi

BLANK TEST	0.000	16:00
INTERNAL STANDARD	✓ VERIFIED	16:00
Xq = 0.098 (1.63%)		
EXTERNAL STANDARD	0.077	16:00
X[1] = 0.0769 (0.0012) (-0.0003)		
BLANK TEST	0.000	16:01
EXTERNAL STANDARD	0.077	16:01
X[1] = 0.0768 (0.0012) (0.0007)		
BLANK TEST	0.000	16:02
EXTERNAL STANDARD	0.077	16:02
X[1] = 0.0765 (0.0005) (0.0003)		
BLANK TEST	0.000	16:03
EXTERNAL STANDARD	0.077	16:04
X[1] = 0.0771 (0.0005) (-0.0002)		
BLANK TEST	0.000	16:04
EXTERNAL STANDARD	0.077	16:05
X[1] = 0.0771 (0.0004) (0.0004)		
BLANK TEST	0.000	16:06

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.83 V	PASSED
(1.04 V - 2.42 V)	
Cooler Voltage = 1.65 V	PASSED
(1.02 V - 2.38 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 532 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.0 in	

PUMP INFO

Flow Rate = 4.186 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 = 0.097 0.64% (0.00% - 4.00%)