

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100354

Date: 01/07/20

Analyst: Derek Walton

1. Reason for instrument evaluation

Preventive maintenance due, phone line from agency stuck in modem port. Instrument not uploaded via modem line at check in.

2. Visual Inspection

- Clean  Replace missing screws
- Cermetex Box is secure  Ensure modem cable present
- Gas Valve upright or secured to wall  All tubing and connections are secure

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

4. Troubleshooting/Repair

Replaced o-ring. Replaced modem board due to non-removable phone line. Added modem cable. Instrument uploaded successfully.

Routed filter wires separately.

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 #: 100354

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/07/2020

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.73: 0.080  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 1065 psi

BLANK TEST	0.000	13:37
INTERNAL STANDARD	✓ VERIFIED	13:37
Xq = 0.095 (0.46%)		
EXTERNAL STANDARD	0.078	13:38
X[1] = 0.0781 (0.0010) (0.0006)		
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.078	13:39
X[1] = 0.0779 (-0.0001) (0.0002)		
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.078	13:40
X[1] = 0.0777 (-0.0001) (0.0007)		
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.078	13:41
X[1] = 0.0784 (-0.0005) (0.0007)		
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.078	13:42
X[1] = 0.0785 (-0.0010) (0.0006)		
BLANK TEST	0.000	13:43

Average = 0.0780  
Std Dev = 0.0000

## Diagnostic Check

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

### TEMPERATURES

Sample Chamber = 48.6°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.8°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.59 V	PASSED
(0.95 V - 2.23 V)	
Cooler Voltage = 1.56 V	PASSED
(0.95 V - 2.21 V)	
Bias Voltage = 78 V	PASSED
(47 V - 111 V)	
Chopper Freq = 535 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

### PUMP INFO

Flow Rate = 4.743 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.001 V <= 0.010 V)	
PUMP OFF	PASSED
(0.001 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓	PASSED
Xq = 0.097 1.29% (0.00% - 4.00%)	