

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2018 R0  
Status: Active

Instrument # 100694

Date: 06/21/2018

Analyst: Derek Walton

1. Reason for instrument evaluation

Internal standard error, did not meet slope requirement during certification, Intermittent internal standard errors

2. Visual Inspection

Clean

Cermetex Box is secure

Gas Valve upright or secured to wall

Replace missing screws

Ensure modem cable present

All tubing and connections are secure

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

4. Troubleshooting/Repair

Internal standard error not encountered during evaluation

Standard out of range encountered during evaluation

5. VOC (attached)

6. Internal Standard value  $\leq 3.00\%$  Yes

No  In field

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 #: 100694

*Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program*

Date: 03/07/2018

## External Standard Test Values

## Diagnostic Check

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

### TEMPERATURES

Sample Chamber = 48.6°C PASSED  
Breath Tube = 43.7°C PASSED

### PUMP INFO

Flow Rate = 4.217 L/M PASSED

### DETECTOR INFO

PUMP ON PASSED  
PUMP OFF PASSED

### FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

### INTERNAL STANDARD

INTERNAL STANDARD FAILED  
Diagnostic Check Failed

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

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## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 20.54: 0.079  
LOT #: AG634001  
EXPIRATION: 12/05/2018  
TANK PRESSURE: 896 psi

BLANK TEST 0.000 15:53  
INTERNAL STANDARD VERIFIED 15:54  
Xq = 0.098 (1.18%)  
EXTERNAL STANDARD 0.100 15:54  
X[1] = 0.1004 (0.0018) (0.0046)

Standard Out of Range

## 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 = 45.1°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.61 V PASSED  
(0.95 V - 2.21 V)  
Cooler Voltage = 1.61 V PASSED  
(0.98 V - 2.30 V)  
Bias Voltage = 80 V PASSED  
(49 V - 113 V)  
Chopper Freq = 542 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.5 in

### PUMP INFO

Flow Rate = 4.233 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

Xq = 0.097 (0.82%) (0.00% - 4.00%) PASSED