

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 7/10/2015  
Effective: 7/10/2015

Version: DMEF2015 R0  
Status: Active

Instrument # 100689

Date: 12/28/16

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Return from Intox after repair

2. Visual Inspection

3. Troubleshooting/Repair

collar on breath hose detached, reattached at lab.

4. VOC (attached)

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

6. Verify software version

Return to Factory for Repair

Ready For Calibration

Ready For Certification

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100689

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/28/2016

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.29: 0.078  
LOT #: AG608504  
EXPIRATION: 03/25/2018  
TANK PRESSURE: 963 psi

BLANK TEST 0.000 10:30  
INTERNAL STANDARD VERIFIED 10:31  
Xq = 0.095 (0.09%)  
EXTERNAL STANDARD 0.079 10:31  
X[1] = 0.0786 (-0.0016) (-0.0011)  
BLANK TEST 0.000 10:32  
EXTERNAL STANDARD 0.079 10:32  
X[1] = 0.0789 (-0.0016) (-0.0006)  
BLANK TEST 0.000 10:33  
EXTERNAL STANDARD 0.078 10:33  
X[1] = 0.0784 (-0.0019) (-0.0010)  
BLANK TEST 0.000 10:34  
EXTERNAL STANDARD 0.078 10:34  
X[1] = 0.0782 (-0.0018) (-0.0009)  
BLANK TEST 0.000 10:35  
EXTERNAL STANDARD 0.079 10:35  
X[1] = 0.0786 (-0.0010) (-0.0007)  
BLANK TEST 0.000 10:36

Average = 0.0786  
Std Dev = 0.0005

## 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 = 44.2°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.78 V PASSED  
(1.05 V - 2.45 V)  
Cooler Voltage = 1.75 V PASSED  
(1.04 V - 2.42 V)  
Bias Voltage = 79 V PASSED  
(48 V - 112 V)  
Chopper Freq = 528 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.3 in

### PUMP INFO

Flow Rate = 4.031 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 = 0.096 1.11% (0.00% - 4.00%)