

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

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

Version: DMEF2015 R0  
Status: Active

Instrument # 100685

Date: 9/10/15

Analyst: Brandi Barnett

1. Reason for instrument evaluation

Preventative Maintenance

2. Visual Inspection

3. Troubleshooting/Repair

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 #: 100685

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/10/2015

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.26: 0.078  
LOT #: 01315080A2  
EXPIRATION: 02/05/2017  
TANK PRESSURE: 989 psi

|                                  |          |       |
|----------------------------------|----------|-------|
| BLANK TEST                       | 0.000    | 12:20 |
| INTERNAL STANDARD                | VERIFIED | 12:21 |
| Xq = 0.080 (2.89%)               |          |       |
| EXTERNAL STANDARD                | 0.079    | 12:21 |
| X[1] = 0.0793 (-0.0006) (0.0031) |          |       |
| BLANK TEST                       | 0.000    | 12:22 |
| EXTERNAL STANDARD                | 0.079    | 12:22 |
| X[1] = 0.0785 (-0.0011) (0.0028) |          |       |
| BLANK TEST                       | 0.000    | 12:23 |
| EXTERNAL STANDARD                | 0.079    | 12:23 |
| X[1] = 0.0788 (-0.0009) (0.0028) |          |       |
| BLANK TEST                       | 0.000    | 12:24 |
| EXTERNAL STANDARD                | 0.079    | 12:24 |
| X[1] = 0.0786 (-0.0012) (0.0030) |          |       |
| BLANK TEST                       | 0.000    | 12:25 |
| EXTERNAL STANDARD                | 0.079    | 12:25 |
| X[1] = 0.0787 (-0.0006) (0.0032) |          |       |
| BLANK TEST                       | 0.000    | 12:26 |

Average = 0.0790  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

DMT: 3.01  
PIC: 3.03  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

|                         |        |
|-------------------------|--------|
| Sample Chamber = 48.7°C | PASSED |
| (44.0°C - 52.0°C)       |        |
| Breath Tube = 47.8°C    | PASSED |
| (38.0°C - 50.0°C)       |        |

### SETTINGS

|                         |        |
|-------------------------|--------|
| Lamp Voltage = 1.66 V   | PASSED |
| (0.98 V - 2.30 V)       |        |
| Cooler Voltage = 1.64 V | PASSED |
| (0.96 V - 2.24 V)       |        |
| Bias Voltage = 80 V     | PASSED |
| (47 V - 111 V)          |        |
| Chopper Freq = 549 Hz   | PASSED |
| (475 Hz - 575 Hz)       |        |
| Barometer = 29.3 in     |        |

### PUMP INFO

|                         |        |
|-------------------------|--------|
| Flow Rate = 5.557 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 = 0.080 2.45% (0.00% - 4.00%)

I, Nita J. Bolz, after being first duly sworn, depose and state as follows:

- (1) I am a Forensic Scientist IV at the State of Alaska Scientific Crime Detection Laboratory.
- (2) The Alaska Scientific Crime Detection Laboratory is an entity within the Department of Public Safety.
- (3) I am the Scientific Director of the State Breath Alcohol Program.
- (4) In that capacity, I am responsible for overseeing the Breath Alcohol Program, which includes assuring that instruments are calibrated and maintaining program records.
- (5) The above is a true and accurate verification of calibration, which is performed by the instrument's software, as specified by the State Breath Alcohol Program. Verification of calibration is a regularly conducted and regularly recorded activity of the State Breath Alcohol Program.
- (6) The referenced instrument is certified for evidentiary use in the State of Alaska.

Nita J. Bolz  
Scientific Director  
State Breath Alcohol Program

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_