

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

Issued: 4/12/2018  
Effective: 4/13/2018

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100361

Analyst Derek Watten

Date: 09/17/20

Reason for Calibration

Filters would not zero, internal standard error, blank errors

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Lifeloc
- c. Lot 20AP41118
- d. Expiration Date 01/15/22

2. Wet Bath Simulator

- a. Serial Number DR6267
- b. Date Calibrated 10/08/19

3. Attach Calibration Factors

CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100361  
-----

Date: 09/17/2020  
Time: 15:58:17

OPERATOR NAME:  
DEREK WALTON  
CERTIFICATE #: 9508

Ca = 0.1000  
CAL = 1.004920    0.800 <= CAL < 1.200  
b1 = 0.0005    0.0000 <= b1 < 0.0040  
b2 = 0.0048    0.0010 <= b2 < 0.0100  
b3 = 0.0004    0.0000 <= b3 < 0.0040  
Xq = 0.0822    0.0500 <= Xq < 0.2000  
a21 = 1.196698    1.050 <= a21 < 1.300  
a31 = 0.507308    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100361

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/17/2020

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.20: 0.078  
LOT #: AG923401  
EXPIRATION: 08/22/2021  
TANK PRESSURE: 1165 psi

BLANK TEST	0.000	16:22
INTERNAL STANDARD ✓	VERIFIED	16:22
Xq = 0.082 (0.11%)		
EXTERNAL STANDARD	0.077	16:22
X[1] = 0.0774 (0.0004) (0.0021)		
BLANK TEST	0.000	16:23
EXTERNAL STANDARD	0.078	16:23
X[1] = 0.0784 (0.0003) (0.0022)		
BLANK TEST	0.000	16:24
EXTERNAL STANDARD	0.078	16:24
X[1] = 0.0783 (0.0006) (0.0022)		
BLANK TEST	0.000	16:25
EXTERNAL STANDARD	0.079	16:26
X[1] = 0.0786 (0.0006) (0.0020)		
BLANK TEST	0.000	16:26
EXTERNAL STANDARD	0.079	16:27
X[1] = 0.0785 (0.0006) (0.0025)		
BLANK TEST	0.000	16:28

Average = 0.0782  
Std Dev = 0.0008

## 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 = 41.2°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 2.11 V PASSED  
(1.27 V - 2.95 V)  
Cooler Voltage = 1.91 V PASSED  
(1.15 V - 2.67 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 536 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.2 in

### PUMP INFO

Flow Rate = 4.123 L/M PASSED  
(3.500 L/M - 6.500 L/M)

### DETECTOR INFO

PUMP ON PASSED  
(0.003 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 = 0.082 0.11% (0.00% - 4.00%) PASSED