

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

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

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100690

Analyst Derek Walton

Date: 09/17/20

### Reason for Calibration

Blank errors, internal standard 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

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Alaska Department of Public Safety  
DATAMASTER dmt: 100690  
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Date: 09/17/2020  
Time: 14:33:31

OPERATOR NAME:  
DEREK WALTON  
CERTIFICATE #: 9508

Ca = 0.1000  
CAL = 0.974311    0.800 <= CAL < 1.200  
b1 = 0.0005    0.0000 <= b1 < 0.0040  
b2 = 0.0041    0.0010 <= b2 < 0.0100  
b3 = 0.0007    0.0000 <= b3 < 0.0040  
Xq = 0.1040    0.0500 <= Xq < 0.2000  
a21 = 1.134840    1.050 <= a21 < 1.300  
a31 = 0.432353    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100690

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/17/2020

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.23: 0.078  
LOT #: AG923401  
EXPIRATION: 08/22/2021  
TANK PRESSURE: 1217 psi

BLANK TEST	0.000	15:06
INTERNAL STANDARD ✓	VERIFIED	15:06
Xq = 0.105 (0.85%)		
EXTERNAL STANDARD	0.077	15:06
X[1] = 0.0767 (0.0007) (0.0021)		
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.076	15:07
X[1] = 0.0764 (0.0003) (0.0018)		
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.077	15:09
X[1] = 0.0771 (0.0017) (0.0013)		
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.077	15:10
X[1] = 0.0769 (0.0020) (0.0018)		
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.076	15:11
X[1] = 0.0763 (-0.0003) (0.0008)		
BLANK TEST	0.000	15:12

Average = 0.0766  
Std Dev = 0.0005

## Diagnostic Check

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

### TEMPERATURES

Sample Chamber = 49.0°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 46.5°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.97 V	PASSED
(1.18 V - 2.76 V)	
Cooler Voltage = 1.81 V	PASSED
(1.09 V - 2.53 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 527 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

### PUMP INFO

Flow Rate = 4.420 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
(0.001 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓	PASSED
Xq = 0.104 0.42% (0.00% - 4.00%)	