

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

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

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100411

Analyst Derek Walton

Date: 09/17/20

### Reason for Calibration

Internal standard error after factory refurbishment

#### 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 PR6267
- b. Date Calibrated 10/08/19

#### 3. Attach Calibration Factors

CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100411  
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Date: 09/17/2020  
Time: 15:03:18

OPERATOR NAME:  
DEREK WALTON  
CERTIFICATE #: 9508

Ca = 0.1000  
CAL = 1.023511    0.800 <= CAL < 1.200  
b1 = 0.0012    0.0000 <= b1 < 0.0040  
b2 = 0.0049    0.0010 <= b2 < 0.0100  
b3 = 0.0019    0.0000 <= b3 < 0.0040  
Xq = 0.0745    0.0500 <= Xq < 0.2000  
a21 = 1.128981    1.050 <= a21 < 1.300  
a31 = 0.471932    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100411

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/17/2020

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.22: 0.078  
LOT #: AG923401  
EXPIRATION: 08/22/2021  
TANK PRESSURE: 1199 psi

BLANK TEST	0.000	15:33
INTERNAL STANDARD	✓ VERIFIED	15:33
Xq = 0.074 (1.16%)		
EXTERNAL STANDARD	0.079	15:33
X[1] = 0.0787 (-0.0003) (0.0015)		
BLANK TEST	0.000	15:34
EXTERNAL STANDARD	0.080	15:34
X[1] = 0.0800 (-0.0011) (-0.0001)		
BLANK TEST	0.000	15:35
EXTERNAL STANDARD	0.079	15:35
X[1] = 0.0787 (-0.0020) (-0.0007)		
BLANK TEST	0.000	15:36
EXTERNAL STANDARD	0.079	15:36
X[1] = 0.0793 (0.0005) (0.0012)		
BLANK TEST	0.000	15:37
EXTERNAL STANDARD	0.079	15:38
X[1] = 0.0789 (-0.0002) (-0.0007)		
BLANK TEST	0.000	15:38

Average = 0.0792  
Std Dev = 0.0004

## Diagnostic Check

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

### TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 42.9°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.82 V	PASSED
(1.09 V - 2.55 V)	
Cooler Voltage = 1.82 V	PASSED
(1.09 V - 2.55 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 521 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

### PUMP INFO

Flow Rate = 5.339 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	✓	PASSED
Xq = 0.076	1.40%	(0.00% - 4.00%)