

# 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: 03/08/21

### Reason for Calibration

Blank error and internal standard errors

#### 1. Wet Bath Simulator Solution

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

#### 2. Wet Bath Simulator

- a. Serial Number SD1199
- b. Date Calibrated 05/07/20

#### 3. Attach Calibration Factors

CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100411  
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Date: 03/08/2021  
Time: 13:19:26

OPERATOR NAME:  
DEREK WALTON  
CERTIFICATE #: 9508

Ca = 0.1000  
CAL = 0.998486    0.800 <= CAL < 1.200  
b1 = 0.0004    0.0000 <= b1 < 0.0040  
b2 = 0.0043    0.0010 <= b2 < 0.0100  
b3 = 0.0005    0.0000 <= b3 < 0.0040  
Xq = 0.0782    0.0500 <= Xq < 0.2000  
a21 = 1.119847    1.050 <= a21 < 1.300  
a31 = 0.479623    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: 03/08/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.95: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 831 psi

BLANK TEST	0.000	13:40
INTERNAL STANDARD	VERIFIED	13:40
Xq = 0.076 (2.44%)		
EXTERNAL STANDARD	0.080	13:40
X[1] = 0.0799 (-0.0018) (0.0019)		
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.080	13:41
X[1] = 0.0798 (-0.0015) (0.0019)		
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.080	13:42
X[1] = 0.0798 (-0.0015) (0.0019)		
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.080	13:43
X[1] = 0.0797 (-0.0016) (0.0018)		
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.080	13:44
X[1] = 0.0799 (-0.0014) (0.0021)		
BLANK TEST	0.000	13:45

Average = 0.0800  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 40.8°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.77 V	PASSED
(1.06 V - 2.48 V)	
Cooler Voltage = 1.77 V	PASSED
(1.06 V - 2.48 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 530 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

### PUMP INFO

Flow Rate = 5.463 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 = 0.078 0.67%	PASSED
(0.00% - 4.00%)	