

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

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

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100422

Analyst Carrie Bailey

Date: 5/19/2021

Derek Walton

### Reason for Calibration

Internal Standard close to 3% on evaluation

#### 1. Wet Bath Simulator Solution

- a. Level 0-100
- b. Manufacturer LifeLoc
- c. Lot 20AP41118
- d. Expiration Date 1/15/2022

#### 2. Wet Bath Simulator

- a. Serial Number DR4163
- b. Date Calibrated 11/17/2020

#### 3. Attach Calibration Factors

CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100422  
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Date: 05/19/2021  
Time: 12:47:38

OPERATOR NAME:  
CARLIE BAILEY  
CERTIFICATE #: 10436

Ca = 0.1000  
CAL = 0.988319    0.800 <= CAL < 1.200  
b1 = 0.0007    0.0000 <= b1 < 0.0040  
b2 = 0.0079    0.0010 <= b2 < 0.0100  
b3 = 0.0008    0.0000 <= b3 < 0.0040  
Xq = 0.1241    0.0500 <= Xq < 0.2000  
a21 = 1.218080    1.050 <= a21 < 1.300  
a31 = 0.415534    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100422

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/19/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.81: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 1199 psi

BLANK TEST	0.000	13:08
INTERNAL STANDARD	VERIFIED	13:08
Xq = 0.125 (0.72%)		
EXTERNAL STANDARD	0.079	13:08
X[1] = 0.0786 (-0.0024) (0.0018)		
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.078	13:10
X[1] = 0.0785 (-0.0025) (0.0020)		
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.079	13:11
X[1] = 0.0792 (-0.0011) (0.0022)		
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.079	13:12
X[1] = 0.0790 (-0.0019) (0.0024)		
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.079	13:13
X[1] = 0.0789 (-0.0017) (0.0018)		
BLANK TEST	0.000	13:14

Average = 0.0788  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.1°C (44.0°C - 52.0°C)	PASSED
Breath Tube = 46.4°C (38.0°C - 50.0°C)	PASSED

### SETTINGS

Lamp Voltage = 1.70 V (1.02 V - 2.38 V)	PASSED
Cooler Voltage = 1.83 V (1.09 V - 2.55 V)	PASSED
Bias Voltage = 80 V (48 V - 112 V)	PASSED
Chopper Freq = 523 Hz (475 Hz - 575 Hz)	PASSED
Barometer = 29.8 in	

### PUMP INFO

Flow Rate = 4.974 L/M (3.500 L/M - 6.500 L/M)	PASSED
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### DETECTOR INFO

PUMP ON (0.001 V <= 0.010 V)	PASSED
PUMP OFF (0.002 V <= 0.010 V)	PASSED

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.125 1.00% (0.00% - 4.00%)	PASSED
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