

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

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

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100378

Analyst Carlie Bailey  
Dereen Walton

Date: 5/19/2021

### Reason for Calibration

Internal Standard > 9%

#### 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: 100378  
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Date: 05/19/2021  
Time: 12:20:25

OPERATOR NAME:  
CARLIE BAILEY  
CERTIFICATE #: 10436

Ca = 0.1000  
CAL = 0.957976    0.800 <= CAL < 1.200  
b1 = 0.0008    0.0000 <= b1 < 0.0040  
b2 = 0.0058    0.0010 <= b2 < 0.0100  
b3 = 0.0012    0.0000 <= b3 < 0.0040  
Xq = 0.0869    0.0500 <= Xq < 0.2000  
a21 = 1.178345    1.050 <= a21 < 1.300  
a31 = 0.448135    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100378

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 05/19/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.82: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 426 psi

BLANK TEST	0.000	12:39
INTERNAL STANDARD	VERIFIED	12:39
Xq = 0.087 (0.00%)		
EXTERNAL STANDARD	0.078	12:40
X[1] = 0.0780 (-0.0010) (0.0017)		
BLANK TEST	0.000	12:41
EXTERNAL STANDARD	0.078	12:41
X[1] = 0.0776 (-0.0012) (0.0013)		
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.078	12:42
X[1] = 0.0779 (-0.0011) (0.0016)		
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.078	12:43
X[1] = 0.0778 (-0.0011) (0.0007)		
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.078	12:44
X[1] = 0.0780 (-0.0009) (0.0011)		
BLANK TEST	0.000	12:45

Average = 0.0780  
Std Dev = 0.0000

## 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 = 47.4°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.55 V	PASSED
(0.93 V - 2.17 V)	
Cooler Voltage = 1.57 V	PASSED
(0.94 V - 2.20 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

### PUMP INFO

Flow Rate = 5.278 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
(0.002 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.086	0.80%	(0.00% - 4.00%)	PASSED
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