

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

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

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100399

Analyst Carlisle Barkey  
Derek Walton

Date: 5/19/2021

### Reason for Calibration

Internal standard error

#### 1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Lifelog
- 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: 100399  
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Date: 05/19/2021  
Time: 12:09:54

OPERATOR NAME:  
CARLIE BAILEY  
CERTIFICATE #: 10436

Ca	=	0.1000		
CAL	=	0.978472	0.800	<= CAL < 1.200
b1	=	0.0004	0.0000	<= b1 < 0.0040
b2	=	0.0063	0.0010	<= b2 < 0.0100
b3	=	0.0001	0.0000	<= b3 < 0.0040
Xq	=	0.0862	0.0500	<= Xq < 0.2000
a21	=	1.217464	1.050	<= a21 < 1.300
a31	=	0.423104	0.300	<= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100399

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: 1166 psi

BLANK TEST	0.000	12:28
INTERNAL STANDARD	VERIFIED	12:28
Xq = 0.084 (2.32%)		
EXTERNAL STANDARD	0.076	12:28
X[1] = 0.0758 (-0.0015) (0.0039)		
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.077	12:29
X[1] = 0.0772 (-0.0012) (0.0023)		
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.077	12:31
X[1] = 0.0771 (-0.0015) (0.0018)		
BLANK TEST	0.000	12:31
EXTERNAL STANDARD	0.077	12:32
X[1] = 0.0769 (-0.0020) (0.0006)		
BLANK TEST	0.000	12:33
EXTERNAL STANDARD	0.077	12:33
X[1] = 0.0772 (-0.0016) (0.0019)		
BLANK TEST	0.000	12:34

Average = 0.0768  
Std Dev = 0.0004

## 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 = 1.68 V	PASSED
(1.01 V - 2.37 V)	
Cooler Voltage = 1.70 V	PASSED
(1.02 V - 2.38 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 521 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

### PUMP INFO

Flow Rate = 5.522 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 PASSED

Xq = 0.085 1.31% (0.00% - 4.00%)