

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100667

Analyst: Carlie Glaister

Date: 12/29/2021

Reason for Calibration:

Internal standard errors  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

0.100 Calibration Simulator Solution

Manufacturer: Lifeloc

Lot: 21DP41158

Expiration Date: 4/29/2023

0.100 Calibration Wet Bath Simulator

Serial Number: DR5298

Date Calibrated: 6/14/2021

Blank (Water) Wet Bath Simulator

Serial Number: SD1199

Date Calibrated: 6/15/2021

- Attach Calibration Factors
- Attach Verification of Calibration
- Internal Standard Value  $\leq$  3.00%

CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100667  
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Date: 12/29/2021  
Time: 11:35:09

OPERATOR NAME:  
CARLIE GLAISTER  
CERTIFICATE #: 10436

Ca = 0.1000  
CAL = 0.984050    0.800 <= CAL < 1.200  
b1 = 0.0010    0.0000 <= b1 < 0.0040  
b2 = 0.0079    0.0010 <= b2 < 0.0100  
b3 = 0.0005    0.0000 <= b3 < 0.0040  
Xq = 0.1060    0.0500 <= Xq < 0.2000  
a21 = 1.213621    1.050 <= a21 < 1.300  
a31 = 0.486925    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100667

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/29/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.76: 0.080  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 621 psi

BLANK TEST	0.000	11:55
INTERNAL STANDARD	VERIFIED	11:55
Xq = 0.106 (0.25%)		
EXTERNAL STANDARD	0.077	11:55
X[1] = 0.0773 (-0.0024) (0.0025)		
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.078	11:56
X[1] = 0.0777 (-0.0025) (0.0024)		
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.077	11:57
X[1] = 0.0772 (-0.0028) (0.0020)		
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.077	11:58
X[1] = 0.0774 (-0.0023) (0.0019)		
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.077	11:59
X[1] = 0.0774 (-0.0031) (0.0024)		
BLANK TEST	0.000	12:00

Average = 0.0772  
Std Dev = 0.0004

## Diagnostic Check

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

### TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 43.2°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.91 V	PASSED
(1.15 V - 2.67 V)	
Cooler Voltage = 1.93 V	PASSED
(1.16 V - 2.70 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 529 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

### PUMP INFO

Flow Rate = 4.635 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 = 0.106 0.33% (0.00% - 4.00%)