

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100347

Analyst: Carlie Clairtek

Date: 08/30/2022

Tatiana Malnoske

Reason for Calibration:

Internal standard errors

0.100 Calibration Simulator Solution

Manufacturer: Lifeloc

Lot: 21KP41172

Expiration Date: 11/09/2023

0.100 Calibration Wet Bath Simulator

Serial Number: DK4162

Date Calibrated: 11/29/2021

Blank (Water) Wet Bath Simulator

Serial Number: DK6267

Date Calibrated: 11/29/2021

- 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: 100347  
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Date: 08/30/2022  
Time: 08:51:09

OPERATOR NAME:  
CARLIE GLAISTER  
CERTIFICATE #: 10436

Ca = 0.1000  
CAL = 0.982738    0.800 <= CAL < 1.200  
b1 = 0.0011    0.0000 <= b1 < 0.0040  
b2 = 0.0061    0.0010 <= b2 < 0.0100  
b3 = 0.0008    0.0000 <= b3 < 0.0040  
Xq = 0.0974    0.0500 <= Xq < 0.2000  
a21 = 1.169832    1.050 <= a21 < 1.300  
a31 = 0.440480    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100347

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 08/30/2022

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.53: 0.079  
LOT #: AG113402  
EXPIRATION: 05/14/2023  
TANK PRESSURE: 1267 psi

BLANK TEST	0.000	09:14
INTERNAL STANDARD	VERIFIED	09:14
Xq = 0.097 (0.27%)		
EXTERNAL STANDARD	0.078	09:14
X[1] = 0.0785 (0.0001) (0.0013)		
BLANK TEST	0.000	09:15
EXTERNAL STANDARD	0.079	09:15
X[1] = 0.0786 (-0.0002) (0.0012)		
BLANK TEST	0.000	09:16
EXTERNAL STANDARD	0.078	09:16
X[1] = 0.0784 (-0.0006) (0.0009)		
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.079	09:18
X[1] = 0.0787 (-0.0010) (0.0010)		
BLANK TEST	0.000	09:18
EXTERNAL STANDARD	0.078	09:19
X[1] = 0.0785 (-0.0012) (0.0010)		
BLANK TEST	0.000	09:20

Average = 0.0784  
Std Dev = 0.0005

## 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 = 46.8°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.63 V	PASSED
(0.98 V - 2.28 V)	
Cooler Voltage = 1.64 V	PASSED
(0.98 V - 2.30 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 526 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

### PUMP INFO

Flow Rate = 4.682 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.006 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 = 0.097 0.18% (0.00% - 4.00%)