

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100681

Analyst Carlisle Blaiester

Date: 10/29/2021

Reason for Calibration

External standard passing but reading consistently low

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Life100
- c. Lot 21DP41158
- d. Expiration Date 4/29/2023

2. Wet Bath Simulator

- a. Serial Number DR5298
- b. Date Calibrated 10/16/2021

3. Attach Calibration Factors

CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100681  
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Date: 10/29/2021  
Time: 13:14:55

OPERATOR NAME:  
CARLIE GLAISTER  
CERTIFICATE #: 10436

Ca = 0.1000  
CAL = 0.984251    0.800 <= CAL < 1.200  
b1 = 0.0004    0.0000 <= b1 < 0.0040  
b2 = 0.0051    0.0010 <= b2 < 0.0100  
b3 = 0.0001    0.0000 <= b3 < 0.0040  
Xq = 0.1066    0.0500 <= Xq < 0.2000  
a21 = 1.158479    1.050 <= a21 < 1.300  
a31 = 0.492122    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100681

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/29/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.61: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 213 psi

BLANK TEST	0.000	13:35
INTERNAL STANDARD	✓ VERIFIED	13:36
Xq = 0.107 (0.33%)		
EXTERNAL STANDARD	0.078	13:36
X[1] = 0.0775 (-0.0005) (0.0025)		
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.077	13:37
X[1] = 0.0772 (-0.0011) (0.0023)		
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.077	13:38
X[1] = 0.0772 (-0.0005) (0.0022)		
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.077	13:39
X[1] = 0.0771 (-0.0012) (0.0020)		
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.078	13:40
X[1] = 0.0778 (0.0003) (0.0028)		
BLANK TEST	0.000	13:41

Average = 0.0774  
Std Dev = 0.0005

## 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 = 45.7°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.70 V	PASSED
(1.02 V - 2.38 V)	
Cooler Voltage = 1.53 V	PASSED
(0.92 V - 2.14 V)	
Bias Voltage = 78 V	PASSED
(47 V - 109 V)	
Chopper Freq = 523 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

### PUMP INFO

Flow Rate = 4.312 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

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

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	✓	PASSED
Xq = 0.107	0.08%	(0.00% - 4.00%)