

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

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

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100687

Analyst Brandi Barnett

Date: 7/26/21

### Reason for Calibration

Internal standard errors in field. Filter wheel  
assembly removed temporarily on 07/26/21 - quartz filter cleaned  
with cotton swab and reagent-grade ISOpropanol.

#### 1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Lifeloc
- c. Lot 21DP41158
- d. Expiration Date 4/29/23

#### 2. Wet Bath Simulator

- a. Serial Number DR5298
- b. Date Calibrated 6/16/21

#### 3. Attach Calibration Factors

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/26/2021

## External Standard Test Values

## 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 = 43.8°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.56 V PASSED  
(0.95 V - 2.23 V)  
Cooler Voltage = 1.56 V PASSED  
(0.97 V - 2.25 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 526 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

### PUMP INFO

Flow Rate = 4.313 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 = 0.085 9.01% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/26/2021

## External Standard Test Values

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C PASSED  
(44.0°C - 52.0°C)  
Breath Tube = 44.1°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.56 V PASSED  
(0.95 V - 2.23 V)  
Cooler Voltage = 1.56 V PASSED  
(0.97 V - 2.25 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 527 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.7 in

### PUMP INFO

Flow Rate = 4.421 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 = 0.085 8.35% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100687  
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Date: 07/26/2021  
Time: 15:00:12

OPERATOR NAME:  
BRANDI BARNETT  
CERTIFICATE #: 7038

Ca = 0.1000  
CAL = 0.991668    0.800 <= CAL < 1.200  
b1 = 0.0006    0.0000 <= b1 < 0.0040  
b2 = 0.0038    0.0010 <= b2 < 0.0100  
b3 = 0.0006    0.0000 <= b3 < 0.0040  
Xq = 0.0851    0.0500 <= Xq < 0.2000  
a21 = 1.156525    1.050 <= a21 < 1.300  
a31 = 0.531846    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/26/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.73: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 885 psi

BLANK TEST	0.000	15:20
INTERNAL STANDARD	VERIFIED	15:20
Xq = 0.086 (1.13%)		
EXTERNAL STANDARD	0.077	15:20
X[1] = 0.0773 (0.0014) (0.0026)		
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.077	15:21
X[1] = 0.0772 (0.0009) (0.0011)		
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.077	15:23
X[1] = 0.0773 (0.0006) (0.0021)		
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.077	15:24
X[1] = 0.0774 (0.0010) (0.0017)		
BLANK TEST	0.000	15:25
EXTERNAL STANDARD	0.077	15:25
X[1] = 0.0770 (0.0004) (0.0016)		
BLANK TEST	0.000	15:26

Average = 0.0770  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.7°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.0°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.56 V	PASSED
(0.94 V - 2.18 V)	
Cooler Voltage = 1.56 V	PASSED
(0.94 V - 2.18 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 536 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

### PUMP INFO

Flow Rate = 4.434 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
(0.002 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.086	0.51%	(0.00% - 4.00%)	PASSED
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