

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

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

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100400

Analyst Derek Walton

Date: 12/16/19

### Reason for Calibration

Tank interference, standard out of range

#### 1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Quinn
- c. Lot 18370
- d. Expiration Date 12/05/20

#### 2. Wet Bath Simulator

- a. Serial Number SD1198
- b. Date Calibrated 03/06/19

#### 3. Attach Calibration Factors

CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100400  
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Date: 12/16/2019  
Time: 10:36:49

OPERATOR NAME:  
DEREK WALTON  
CERTIFICATE #: 9508

Ca = 0.1000  
CAL = 0.968246    0.800 <= CAL < 1.200  
b1 = 0.0003    0.0000 <= b1 < 0.0040  
b2 = 0.0047    0.0010 <= b2 < 0.0100  
b3 = 0.0002    0.0000 <= b3 < 0.0040  
Xq = 0.1066    0.0500 <= Xq < 0.2000  
a21 = 1.177357    1.050 <= a21 < 1.300  
a31 = 0.464721    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100400

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/16/2019

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.20: 0.078  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 488 psi

BLANK TEST	0.000	10:58
INTERNAL STANDARD	VERIFIED	10:58
Xq = 0.106 (0.33%)		
EXTERNAL STANDARD	0.076	10:59
X[1] = 0.0764 (-0.0008) (0.0025)		
BLANK TEST	0.000	11:00
EXTERNAL STANDARD	0.076	11:00
X[1] = 0.0757 (-0.0018) (0.0020)		
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.076	11:01
X[1] = 0.0762 (-0.0011) (0.0019)		
BLANK TEST	0.000	11:02
EXTERNAL STANDARD	0.077	11:02
X[1] = 0.0765 (-0.0010) (0.0026)		
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.076	11:03
X[1] = 0.0763 (-0.0008) (0.0021)		
BLANK TEST	0.000	11:04

Average = 0.0762  
Std Dev = 0.0004

## 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 = 48.0°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.66 V	PASSED
(1.00 V - 2.32 V)	
Cooler Voltage = 1.67 V	PASSED
(1.00 V - 2.34 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 522 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

### PUMP INFO

Flow Rate = 4.860 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
(0.001 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

### INTERNAL STANDARD

Xq = 0.106	0.74%	(0.00% - 4.00%)	PASSED
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