

# Alaska Scientific Crime Detection Laboratory

## DataMaster Calibration Form

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

Version: DMCAF 2018 R0  
Status: Active

Instrument # 100689

Analyst Derek Watten

Date: 12/16/19

Reason for Calibration

Tank interference on VOCs

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Guth
- 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: 100689  
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Date: 12/16/2019  
Time: 10:52:30

OPERATOR NAME:  
DEREK WALTON  
CERTIFICATE #: 9508

Ca	=	0.1000			
CAL	=	0.979465	0.800	<=	CAL < 1.200
b1	=	0.0013	0.0000	<=	b1 < 0.0040
b2	=	0.0069	0.0010	<=	b2 < 0.0100
b3	=	0.0011	0.0000	<=	b3 < 0.0040
Xq	=	0.0979	0.0500	<=	Xq < 0.2000
a21	=	1.227391	1.050	<=	a21 < 1.300
a31	=	0.543345	0.300	<=	a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100689

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/16/2019

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.25: 0.078  
LOT #: AG826101  
EXPIRATION: 09/18/2020  
TANK PRESSURE: 767 psi

BLANK TEST	0.000	11:39
INTERNAL STANDARD	VERIFIED	11:39
Xq = 0.098 (0.18%)		
EXTERNAL STANDARD	0.077	11:39
X[1] = 0.0770 (0.0002) (0.0044)		
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.077	11:40
X[1] = 0.0775 (0.0001) (0.0037)		
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.077	11:42
X[1] = 0.0770 (-0.0005) (0.0030)		
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.077	11:43
X[1] = 0.0773 (-0.0002) (0.0027)		
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.077	11:44
X[1] = 0.0769 (-0.0014) (0.0032)		
BLANK TEST	0.000	11:45

Average = 0.0770  
Std Dev = 0.0000

## Diagnostic Check

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.3°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.81 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.63 V	PASSED
(0.99 V - 2.31 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 536 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

### PUMP INFO

Flow Rate = 4.086 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 = 0.097 0.81% (0.00% - 4.00%)