

# Alaska Scientific Crime Detection Laboratory

## DataMaster Adjustment Form

Effective: 3/20/2025

Version: 3.0

Instrument #: 100396

Analyst: Kaija Swisher

Date: 7/15/25

### Reason for Adjustment

Detector replacement, Sample chamber replacement

### 0.100 Adjustment Simulator Solution

Manufacturer: Life Loc

Lot: 231P41233

Expiration Date: 9/20/25

### 0.100 Adjustment Wet Bath Simulator

Serial Number: SD1088

Verification Performed? ☒

### Calibrated External Thermometer

Serial Number: 23063096

Calibration Due Date: 9/19/25

### Blank (Water) Wet Bath Simulator

Serial Number: SD1202

Verification Performed? ☒

- ☒ Turn pump on/off in the technician screen to prevent pump error on VOC
- ☒ Attach "Cal Factors"
- ☒ Attach Verification of Calibration (VOC)
- ☒ Internal Standard Value  $\leq 3.00\%$

# CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100396  
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Date: 07/15/2025  
Time: 14:09:25

OPERATOR NAME:  
KAIJA SWISHER  
CERTIFICATE #: 10746

Ca	=	0.1000			
CAL	=	0.961593	0.800	<=	CAL < 1.200
b1	=	0.0001	0.0000	<=	b1 < 0.0040
b2	=	0.0046	0.0010	<=	b2 < 0.0100
b3	=	0.0002	0.0000	<=	b3 < 0.0040
Xq	=	0.1048	0.0500	<=	Xq < 0.2000
a21	=	1.182154	1.050	<=	a21 < 1.300
a31	=	0.431426	0.300	<=	a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100396

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/15/2025

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 30.20: 0.081

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 181 psi

BLANK TEST	0.000	14:36
INTERNAL STANDARD	VERIFIED	14:36
Xq = 0.104 (0.34%)		
EXTERNAL STANDARD	0.079	14:37
X[1] = 0.0788 (0.0004) (0.0016)		
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.078	14:38
X[1] = 0.0784 (-0.0002) (0.0015)		
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.079	14:39
X[1] = 0.0789 (0.0004) (0.0012)		
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.079	14:40
X[1] = 0.0786 (-0.0004) (0.0014)		
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.079	14:41
X[1] = 0.0791 (-0.0001) (0.0012)		
BLANK TEST	0.000	14:42

Average = 0.0788

Std Dev = 0.0004

## 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 = 47.9°C PASSED  
(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.72 V PASSED  
(1.03 V - 2.41 V)

Cooler Voltage = 1.76 V PASSED  
(1.06 V - 2.46 V)

Bias Voltage = 80 V PASSED  
(48 V - 112 V)

Chopper Freq = 536 Hz PASSED  
(475 Hz - 575 Hz)

Barometer = 30.2 in

### PUMP INFO

Flow Rate = 5.463 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

PASSED

Xq = 0.105 0.08% (0.00% - 4.00%)