

Alaska Scientific Crime Detection Laboratory

DataMaster Adjustment Form

Effective: 11/24/2025

Version: 4.0

Instrument #: 100392

Analyst: Derek Wotton

Start Date: 01/08/26

Reason for Adjustment

Internal Standard greater than 3% on Evaluation

0.100 Adjustment Simulator Solution

Manufacturer: Life100

Lot: 25CP41280

Expiration Date: 03/19/27

Calibrated External Thermometer

Serial Number: 250159297

Calibration Due Date: 03/14/27

0.100 Adjustment Wet Bath Simulator

Serial Number: DR6267

Verification Performed? ☒

Blank (Water) Wet Bath Simulator

Serial Number: DR4176

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 $\leq 3.00\%$

Next Steps

- ☒ DW Ready for Calibration
- ☒ Repair Needed
- ☐ Adjustment Needed

Filter wheel solenoid wires are flaking badly Adjustment completed normally DJW 01/09/2026

End Date: 01/08/26

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100392

Date: 01/08/2026
Time: 15:22:03

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca	=	0.1000	
CAL	=	0.982362	0.800 <= CAL < 1.200
b1	=	0.0001	0.0000 <= b1 < 0.0040
b2	=	0.0057	0.0010 <= b2 < 0.0100
b3	=	0.0001	0.0000 <= b3 < 0.0040
Xq	=	0.1000	0.0500 <= Xq < 0.2000
a21	=	1.149226	1.050 <= a21 < 1.300
a31	=	0.389914	0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100392

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/08/2026

External Standard Test Values

EXTERNAL STANDARD INFORMATION


NOMINAL: 0.080

TARGET AT 29.35: 0.078

LOT #: AG436502

EXPIRATION: 12/30/2026

TANK PRESSURE: 1161 psi

BLANK TEST	0.000	15:51
INTERNAL STANDARD 	VERIFIED	15:51
Xq = 0.101 (0.79%)		
EXTERNAL STANDARD	0.078	15:51
X[1] = 0.0781 (-0.0021) (0.0022)		
BLANK TEST	0.000	15:52
EXTERNAL STANDARD	0.078	15:52
X[1] = 0.0781 (-0.0016) (0.0023)		
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.078	15:54
X[1] = 0.0778 (-0.0028) (0.0012)		
BLANK TEST	0.000	15:55
EXTERNAL STANDARD	0.078	15:55
X[1] = 0.0779 (-0.0025) (0.0021)		
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.078	15:56
X[1] = 0.0782 (-0.0023) (0.0015)		
BLANK TEST	0.000	15:57

Average = 0.0780

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 = 46.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

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

Cooler Voltage = 1.57 V PASSED
(0.94 V - 2.20 V)

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

Chopper Freq = 534 Hz PASSED
(475 Hz - 575 Hz)

Barometer = 29.3 in

PUMP INFO

Flow Rate = 4.590 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  PASSED
Xq = 0.100 0.18% (0.00% - 4.00%)