

Alaska Scientific Crime Detection Laboratory

DataMaster Adjustment Form

Effective: 3/20/2025

Version: 3.0

Instrument #: 100697

Analyst: Derek Walton

Date: 06/16/25

Reason for Adjustment

Internal standard errors while in the field

0.100 Adjustment Simulator Solution

Manufacturer: Lifeloc

Lot: 23IP41233

Expiration Date: 09/20/25

0.100 Adjustment Wet Bath Simulator

Serial Number: DR5298

Verification Performed? ☒

Calibrated External Thermometer

Serial Number: 23063106

Calibration Due Date: 09/19/25

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

Alaska Department of Public Safety
DATAMASTER dmt: 100697

Date: 06/16/2025
Time: 12:51:09

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca	=	0.1000		
CAL	=	1.015351	0.800	<= CAL < 1.200
b1	=	0.0007	0.0000	<= b1 < 0.0040
b2	=	0.0042	0.0010	<= b2 < 0.0100
b3	=	0.0007	0.0000	<= b3 < 0.0040
Xq	=	0.0820	0.0500	<= Xq < 0.2000
a21	=	1.130606	1.050	<= a21 < 1.300
a31	=	0.483977	0.300	<= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100697

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/16/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.68: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 205 psi

BLANK TEST	0.000	13:10
INTERNAL STANDARD	VERIFIED	13:10
Xq = 0.082 (0.32%)		
EXTERNAL STANDARD	0.079	13:11
X[1] = 0.0786 (0.0004) (0.0018)		
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.078	13:12
X[1] = 0.0783 (-0.0006) (0.0015)		
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.079	13:13
X[1] = 0.0785 (-0.0003) (0.0009)		
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.079	13:14
X[1] = 0.0787 (-0.0001) (0.0016)		
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.079	13:15
X[1] = 0.0789 (-0.0002) (0.0016)		
BLANK TEST	0.000	13:16

Average = 0.0788
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)

Breath Tube = 46.8°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.70 V PASSED
(1.02 V - 2.38 V)

Cooler Voltage = 1.69 V PASSED
(1.01 V - 2.37 V)

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

Chopper Freq = 524 Hz PASSED
(475 Hz - 575 Hz)

Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.176 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
(0.003 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED

Filter 2 PASSED

Filter 3 PASSED

INTERNAL STANDARD PASSED

Xq = 0.082 0.11% (0.00% - 4.00%)