

Alaska Scientific Crime Detection Laboratory

DataMaster Adjustment Form

Effective: 3/20/2025

Version: 3.0

Instrument #: 100683

Analyst: Derek Watton

Date: 06/16/25

Reason for Adjustment

Internal standard errors in the field

0.100 Adjustment Simulator Solution

Manufacturer: Lifecloc

Lot: 23IP41233

Expiration Date: 09/20/25

0.100 Adjustment Wet Bath Simulator

Serial Number: DR5298

Verification Performed? ☒

Calibrated External Thermometer

Serial Number: 230631106

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 $\leq 3.00\%$

Observed significant detector noise. Recommend detector replacement. DM 06/16/25

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 06/16/2025
Time: 11:50:25

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca	=	0.1000	
CAL	=	0.962878	0.800 <= CAL < 1.200
b1	=	0.0013	0.0000 <= b1 < 0.0040
b2	=	0.0084	0.0010 <= b2 < 0.0100
b3	=	0.0008	0.0000 <= b3 < 0.0040
Xq	=	0.0991	0.0500 <= Xq < 0.2000
a21	=	1.200323	1.050 <= a21 < 1.300
a31	=	0.518975	0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100683

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 06/16/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.66: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 632 psi

BLANK TEST	0.000	12:09
INTERNAL STANDARD	✓ VERIFIED	12:09
Xq = 0.102 (2.48%)		
EXTERNAL STANDARD	0.079	12:10
X[1] = 0.0788 (0.0005) (0.0038)		
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.078	12:11
X[1] = 0.0778 (0.0008) (0.0019)		
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.077	12:12
X[1] = 0.0774 (-0.0007) (0.0017)		
BLANK TEST	0.000	12:13
EXTERNAL STANDARD	0.078	12:13
X[1] = 0.0780 (0.0002) (0.0032)		
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.079	12:14
X[1] = 0.0786 (-0.0010) (0.0030)		
BLANK TEST	0.000	12:15

Average = 0.0782
Std Dev = 0.0008

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.77 V	PASSED
(1.06 V - 2.46 V)	
Cooler Voltage = 1.79 V	PASSED
(1.07 V - 2.51 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 530 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.129 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.009 V <= 0.010 V)	
PUMP OFF	PASSED
(0.005 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	✓	PASSED
Xq = 0.100	0.80%	(0.00% - 4.00%)