

Alaska Scientific Crime Detection Laboratory

DataMaster Adjustment Form

Effective: 3/20/2025

Version: 3.0

Instrument #: 100422

Analyst: Megan Carlock

Date: 4/22/25

Reason for Adjustment

Linearity failed at 0.300 with multiple tanks. due to detector overflow.

0.100 Adjustment Simulator Solution

Manufacturer: Lifeloc

Lot: 23IP41233

Expiration Date: 9/20/25

0.100 Adjustment Wet Bath Simulator

Serial Number: DR5298

Verification Performed? ☒

Calibrated External Thermometer

Serial Number: 230631106

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

Alaska Department of Public Safety
DATAMASTER dmt: 100422

Date: 04/22/2025
Time: 11:09:21

OPERATOR NAME:
MEGAN CARLOCK
CERTIFICATE #: 10747

Ca = 0.1000
CAL = 1.003444 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0067 0.0010 <= b2 < 0.0100
b3 = 0.0010 0.0000 <= b3 < 0.0040
Xq = 0.1095 0.0500 <= Xq < 0.2000
a21 = 1.215930 1.050 <= a21 < 1.300
a31 = 0.412580 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100422

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/22/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.69: 0.079
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 387 psi

BLANK TEST	0.000	11:26
INTERNAL STANDARD	VERIFIED	11:26
Xq = 0.109 (0.56%)		
EXTERNAL STANDARD	0.078	11:26
X[1] = 0.0781 (-0.0011) (0.0018)		
BLANK TEST	0.000	11:27
EXTERNAL STANDARD	0.078	11:27
X[1] = 0.0780 (-0.0004) (0.0003)		
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.079	11:29
X[1] = 0.0789 (-0.0013) (0.0021)		
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.079	11:30
X[1] = 0.0789 (-0.0011) (0.0016)		
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.079	11:31
X[1] = 0.0786 (-0.0012) (0.0009)		
BLANK TEST	0.000	11:32

Average = 0.0786
Std Dev = 0.0005

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 = 47.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 2.04 V	PASSED
(1.22 V - 2.86 V)	
Cooler Voltage = 1.80 V	PASSED
(1.08 V - 2.52 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 526 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.911 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.005 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
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Xq = 0.109 0.24% (0.00% - 4.00%)