

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100683

Analyst: Tatiana Malnoske
Supervising Analyst: Carlie Glaister

Date: 09/01/2022

Reason for Calibration:

Experienced sensor issues. Instrument requires calibration
prior running VOCs & Breath tests.

0.100 Calibration Simulator Solution

Manufacturer: LIFELOC

Lot: 21KP41172

Expiration Date: 11/09/2023

0.100 Calibration Wet Bath Simulator

Serial Number: DR4162

Date Calibrated: 11/29/2021

Blank (Water) Wet Bath Simulator

Serial Number: DE6267

Date Calibrated: 11/29/2021

- Attach Calibration Factors
- Attach Verification of Calibration
- Internal Standard Value \leq 3.00%

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100683

Date: 09/01/2022
Time: 11:28:48

OPERATOR NAME:
TATIANA MALNOSKE
CERTIFICATE #: 10437

Ca = 0.1000
CAL = 0.965272 0.800 <= CAL < 1.200
b1 = 0.0011 0.0000 <= b1 < 0.0040
b2 = 0.0076 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.1052 0.0500 <= Xq < 0.2000
a21 = 1.200662 1.050 <= a21 < 1.300
a31 = 0.521225 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: 09/01/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.26: 0.078
LOT #: AG135004
EXPIRATION: 12/16/2023
TANK PRESSURE: 1230 psi

BLANK TEST	0.000	11:51
INTERNAL STANDARD	VERIFIED	11:51
Xq = 0.105 (0.17%)		
EXTERNAL STANDARD	0.077	11:51
X[1] = 0.0774 (-0.0011) (0.0028)		
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.078	11:52
X[1] = 0.0777 (-0.0012) (0.0018)		
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.078	11:53
X[1] = 0.0779 (-0.0015) (0.0017)		
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.078	11:54
X[1] = 0.0780 (-0.0008) (0.0018)		
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.078	11:55
X[1] = 0.0781 (-0.0013) (0.0019)		
BLANK TEST	0.000	11:56

Average = 0.0778
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 = 46.0°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.95 V	PASSED
(1.17 V - 2.73 V)	
Cooler Voltage = 1.89 V	PASSED
(1.13 V - 2.65 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 540 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.3 in	

PUMP INFO

Flow Rate = 4.086 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

Xq = 0.104	1.09%	(0.00% - 4.00%)
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