

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100345

Analyst: Tatiana Malnoske
Supervising Analyst: Carlie Glaister

Date: 09/01/2022

Reason for Calibration:

LOW trending external standard readings

0.100 Calibration Simulator Solution

Manufacturer: LITLUC

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: DR6267

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: 100345

Date: 09/01/2022
Time: 09:10:46

OPERATOR NAME:
TATIANA MALNOSKE
CERTIFICATE #: 10437

Ca = 0.1000
CAL = 0.970856 0.800 <= CAL < 1.200
b1 = 0.0014 0.0000 <= b1 < 0.0040
b2 = 0.0059 0.0010 <= b2 < 0.0100
b3 = 0.0008 0.0000 <= b3 < 0.0040
Xq = 0.0945 0.0500 <= Xq < 0.2000
a21 = 1.146871 1.050 <= a21 < 1.300
a31 = 0.502084 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100345

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/01/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 1091 psi

BLANK TEST	0.000	09:29
INTERNAL STANDARD	VERIFIED	09:30
Xq = 0.094 (0.19%)		
EXTERNAL STANDARD	0.077	09:30
X[1] = 0.0767 (-0.0003) (0.0017)		
BLANK TEST	0.000	09:31
EXTERNAL STANDARD	0.076	09:31
X[1] = 0.0763 (0.0001) (0.0015)		
BLANK TEST	0.000	09:32
EXTERNAL STANDARD	0.077	09:32
X[1] = 0.0766 (-0.0001) (0.0020)		
BLANK TEST	0.000	09:33
EXTERNAL STANDARD	0.077	09:33
X[1] = 0.0767 (-0.0005) (0.0013)		
BLANK TEST	0.000	09:34
EXTERNAL STANDARD	0.076	09:34
X[1] = 0.0762 (-0.0004) (0.0016)		
BLANK TEST	0.000	09:35

Average = 0.0766
Std Dev = 0.0005

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 = 1.70 V PASSED
(1.02 V - 2.38 V)
Cooler Voltage = 1.64 V PASSED
(0.98 V - 2.30 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 529 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.2 in

PUMP INFO

Flow Rate = 4.318 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
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

Xq = 0.094 0.56% (0.00% - 4.00%)