

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100366

Analyst: Tatiana Malinovic

Date: 09/01/2022

Supervising Analyst: Carlie Glaister

Reason for Calibration:

Internal standard value was reading greater than 3% during certification.

0.100 Calibration Simulator Solution

Manufacturer: LIFELOC

Lot: 21KP41172

Expiration Date: 11/09/2023

0.100 Calibration Wet Bath Simulator

Serial Number: DK4162

Date Calibrated: 11/29/2021

Blank (Water) Wet Bath Simulator

Serial Number: DK6267

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: 100366

Date: 09/01/2022
Time: 08:20:04

OPERATOR NAME:
TATIANA MALNOSKE
CERTIFICATE #: 10437

Ca = 0.1000
CAL = 0.984619 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0060 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.1040 0.0500 <= Xq < 0.2000
a21 = 1.192864 1.050 <= a21 < 1.300
a31 = 0.508312 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100366

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/01/2022

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.24: 0.078
LOT #: AG113402
EXPIRATION: 05/14/2023
TANK PRESSURE: 1100 psi

| | | |
|----------------------------------|----------|-------|
| BLANK TEST | 0.000 | 08:37 |
| INTERNAL STANDARD | VERIFIED | 08:37 |
| Xq = 0.104 (0.08%) | | |
| EXTERNAL STANDARD | 0.076 | 08:37 |
| X[1] = 0.0764 (0.0002) (0.0025) | | |
| BLANK TEST | 0.000 | 08:38 |
| EXTERNAL STANDARD | 0.077 | 08:38 |
| X[1] = 0.0765 (-0.0007) (0.0022) | | |
| BLANK TEST | 0.000 | 08:39 |
| EXTERNAL STANDARD | 0.077 | 08:40 |
| X[1] = 0.0765 (-0.0005) (0.0016) | | |
| BLANK TEST | 0.000 | 08:40 |
| EXTERNAL STANDARD | 0.077 | 08:41 |
| X[1] = 0.0765 (-0.0011) (0.0021) | | |
| BLANK TEST | 0.000 | 08:42 |
| EXTERNAL STANDARD | 0.077 | 08:42 |
| X[1] = 0.0767 (-0.0010) (0.0019) | | |
| BLANK TEST | 0.000 | 08:43 |

Average = 0.0768
Std Dev = 0.0004

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 = 45.4°C | PASSED |
| (38.0°C - 50.0°C) | |

SETTINGS

| | |
|-------------------------|--------|
| Lamp Voltage = 2.38 V | PASSED |
| (1.43 V - 3.33 V) | |
| Cooler Voltage = 1.94 V | PASSED |
| (1.16 V - 2.72 V) | |
| Bias Voltage = 81 V | PASSED |
| (49 V - 113 V) | |
| Chopper Freq = 524 Hz | PASSED |
| (475 Hz - 575 Hz) | |
| Barometer = 29.2 in | |

PUMP INFO

| | |
|-------------------------|--------|
| Flow Rate = 4.706 L/M | PASSED |
| (3.500 L/M - 6.500 L/M) | |

DETECTOR INFO

| | |
|----------------------|--------|
| PUMP ON | PASSED |
| (0.007 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

| | |
|------------------|--------|
| Xq = 0.104 0.17% | PASSED |
| (0.00% - 4.00%) | |