

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100395

Analyst: Tatiana Malnoske
Supervising Analyst: Carlie Glaister

Date: 09/01/2022

Reason for Calibration:

Instrument experienced internal standard errors in the field
w/ the average internal standard reading being above 3%.

0.100 Calibration Simulator Solution

Manufacturer: Lifecoc

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: 100395

Date: 09/01/2022
Time: 08:56:26

OPERATOR NAME:
TATIANA MALNOSKE
CERTIFICATE #: 10437

Ca = 0.1000
CAL = 0.969568 0.800 <= CAL < 1.200
b1 = 0.0010 0.0000 <= b1 < 0.0040
b2 = 0.0056 0.0010 <= b2 < 0.0100
b3 = 0.0007 0.0000 <= b3 < 0.0040
Xq = 0.0929 0.0500 <= Xq < 0.2000
a21 = 1.164000 1.050 <= a21 < 1.300
a31 = 0.372922 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100395

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: 1200 psi

BLANK TEST	0.000	09:15
INTERNAL STANDARD	VERIFIED	09:15
Xq = 0.093 (0.47%)		
EXTERNAL STANDARD	0.077	09:15
X[1] = 0.0774 (0.0000) (0.0024)		
BLANK TEST	0.000	09:16
EXTERNAL STANDARD	0.078	09:16
X[1] = 0.0777 (-0.0003) (0.0022)		
BLANK TEST	0.000	09:17
EXTERNAL STANDARD	0.077	09:17
X[1] = 0.0772 (-0.0001) (0.0017)		
BLANK TEST	0.000	09:18
EXTERNAL STANDARD	0.077	09:18
X[1] = 0.0775 (-0.0002) (0.0020)		
BLANK TEST	0.000	09:19
EXTERNAL STANDARD	0.077	09:19
X[1] = 0.0773 (-0.0009) (0.0019)		
BLANK TEST	0.000	09:20

Average = 0.0772
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 47.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.80 V	PASSED
(1.08 V - 2.52 V)	
Cooler Voltage = 1.69 V	PASSED
(1.01 V - 2.37 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.2 in	

PUMP INFO

Flow Rate = 4.378 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
Xq = 0.093 0.66% (0.00% - 4.00%)	