

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Effective: 11/10/2021

Version: 2.0

Instrument #: 100376

Analyst: Carlie Glaister

Date: 12/29/2021

Reason for Calibration:

Previous internal standard error

0.100 Calibration Simulator Solution

Manufacturer: LifeLoc

Lot: 21DP41158

Expiration Date: 4/29/2023

0.100 Calibration Wet Bath Simulator

Serial Number: DR5298

Date Calibrated: 6/16/2021

Blank (Water) Wet Bath Simulator

Serial Number: SD1199

Date Calibrated: 6/15/2021

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

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 12/29/2021
Time: 12:08:56

OPERATOR NAME:
CARLIE GLAISTER
CERTIFICATE #: 10436

Ca = 0.1000
CAL = 0.974499 0.800 <= CAL < 1.200
b1 = 0.0006 0.0000 <= b1 < 0.0040
b2 = 0.0064 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xq = 0.0762 0.0500 <= Xq < 0.2000
a21 = 1.177238 1.050 <= a21 < 1.300
a31 = 0.378082 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100376

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 12/29/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.76: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 890 psi

BLANK TEST	0.000	12:26
INTERNAL STANDARD	VERIFIED	12:26
Xq = 0.076 (0.00%)		
EXTERNAL STANDARD	0.078	12:26
X[1] = 0.0780 (-0.0006) (0.0017)		
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.078	12:27
X[1] = 0.0777 (-0.0014) (0.0018)		
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.078	12:29
X[1] = 0.0776 (-0.0018) (0.0012)		
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.078	12:30
X[1] = 0.0780 (-0.0014) (0.0021)		
BLANK TEST	0.000	12:31
EXTERNAL STANDARD	0.077	12:31
X[1] = 0.0774 (-0.0018) (0.0019)		
BLANK TEST	0.000	12:32

Average = 0.0778
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 = 45.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.64 V	PASSED
(0.98 V - 2.30 V)	
Cooler Voltage = 1.66 V	PASSED
(1.00 V - 2.32 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 533 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 in	

PUMP INFO

Flow Rate = 3.985 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
(0.002 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.076	0.00%	(0.00% - 4.00%)	PASSED
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