

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

Issued: 4/12/2018
Effective: 4/13/2018

Version: DMCAF 2018 R0
Status: Active

Instrument # 100399

Analyst Brandi Barnett

Date: 7/26/21

Reason for Calibration

Internal Std errors

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Lifeloc
- c. Lot 21DP4 1158
- d. Expiration Date 4/29/23

2. Wet Bath Simulator

- a. Serial Number DR5298
- b. Date Calibrated 06/16/2021

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100399

Date: 07/26/2021
Time: 14:45:57

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 0.997064 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0053 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0844 0.0500 <= Xq < 0.2000
a21 = 1.216343 1.050 <= a21 < 1.300
a31 = 0.426899 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100399

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/26/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1227 psi

BLANK TEST	0.000	15:02
INTERNAL STANDARD	VERIFIED	15:03
Xq = 0.085 (1.13%)		
EXTERNAL STANDARD	0.079	15:03
X[1] = 0.0791 (0.0002) (0.0018)		
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.079	15:04
X[1] = 0.0788 (-0.0001) (0.0022)		
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.079	15:05
X[1] = 0.0790 (0.0000) (0.0018)		
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.080	15:06
X[1] = 0.0797 (0.0010) (0.0023)		
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.079	15:07
X[1] = 0.0789 (-0.0005) (0.0018)		
BLANK TEST	0.000	15:08

Average = 0.0792
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 = 46.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.66 V	PASSED
(1.00 V - 2.32 V)	
Cooler Voltage = 1.65 V	PASSED
(0.99 V - 2.31 V)	
Bias Voltage = 81 V	PASSED
(49 V - 113 V)	
Chopper Freq = 521 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 4.583 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 = 0.085	0.41%	(0.00% - 4.00%)	PASSED
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