

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0
Status: Active

Instrument # 100359

Analyst Dereen Walter

Date: 03/08/21

Reason for Calibration

Detector replaced

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Life loc
- c. Lot 20AP41118
- d. Expiration Date 01/15/22

2. Wet Bath Simulator

- a. Serial Number SD1199
- b. Date Calibrated 05/07/20

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 03/08/2021
Time: 14:37:14

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca = 0.1000
CAL = 0.974123 0.800 <= CAL < 1.200
b1 = 0.0008 0.0000 <= b1 < 0.0040
b2 = 0.0053 0.0010 <= b2 < 0.0100
b3 = 0.0008 0.0000 <= b3 < 0.0040
Xq = 0.0839 0.0500 <= Xq < 0.2000
a21 = 1.146744 1.050 <= a21 < 1.300
a31 = 0.411920 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100359

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/08/2021

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: AG018102
EXPIRATION: 06/29/2022
TANK PRESSURE: 1213 psi

BLANK TEST	0.000	14:57
INTERNAL STANDARD	VERIFIED	14:57
Xq = 0.085 (1.25%)		
EXTERNAL STANDARD	0.079	14:57
X[1] = 0.0786 (-0.0012) (0.0025)		
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.078	14:58
X[1] = 0.0777 (-0.0019) (0.0021)		
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.078	14:59
X[1] = 0.0777 (-0.0012) (0.0021)		
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.078	15:00
X[1] = 0.0779 (-0.0016) (0.0022)		
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.078	15:02
X[1] = 0.0781 (-0.0008) (0.0025)		
BLANK TEST	0.000	15:02

Average = 0.0782
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 = 42.1°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.71 V	PASSED
(1.03 V - 2.39 V)	
Cooler Voltage = 1.58 V	PASSED
(0.95 V - 2.21 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 534 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

PUMP INFO

Flow Rate = 4.549 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

Xq = 0.085	0.93%	(0.00% - 4.00%)	PASSED
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