

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0
Status: Active

Instrument # 100690

Analyst Derek Walton

Date: 10/4/19

Reason for Calibration

Internal standard errors

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Guth
- c. Lot ^{DM 10/4/19} 1210 18370
- d. Expiration Date 12/05/2020

2. Wet Bath Simulator

- a. Serial Number SD1198
- b. Date Calibrated 03/06/19

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100690

Date: 10/04/2019
Time: 09:30:09

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca = 0.1000
CAL = 0.979179 0.800 <= CAL < 1.200
b1 = 0.0025 0.0000 <= b1 < 0.0040
b2 = 0.0056 0.0010 <= b2 < 0.0100
b3 = 0.0015 0.0000 <= b3 < 0.0040
Xq = 0.1033 0.0500 <= Xq < 0.2000
a21 = 1.134181 1.050 <= a21 < 1.300
a31 = 0.436506 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100690

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/04/2019

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.52: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 831 psi

BLANK TEST	0.000	10:02
INTERNAL STANDARD	VERIFIED	10:02
Xq = 0.103	(0.17%)	
EXTERNAL STANDARD	0.078	10:02
X[1] = 0.0777 (0.0006)	(0.0022)	
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.078	10:04
X[1] = 0.0783 (0.0013)	(0.0015)	
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.078	10:05
X[1] = 0.0778 (0.0005)	(0.0010)	
BLANK TEST	0.000	10:06
EXTERNAL STANDARD	0.078	10:06
X[1] = 0.0781 (0.0006)	(0.0012)	
BLANK TEST	0.000	10:07
EXTERNAL STANDARD	0.078	10:07
X[1] = 0.0782 (0.0008)	(0.0013)	
BLANK TEST	0.000	10:08

Average = 0.0780
Std Dev = 0.0000

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 = 44.3°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.83 V	PASSED
(1.10 V - 2.56 V)	
Cooler Voltage = 1.93 V	PASSED
(1.16 V - 2.70 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 531 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.314 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 = 0.104	(0.34%) (0.00% - 4.00%)