

Alaska Scientific Crime Detection Laboratory

DataMaster Calibration Form

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

Version: DMCAF 2018 R0
Status: Active

Instrument # 100357

Analyst Derek Watten

Date: 01/22/20

Reason for Calibration

Internal standard error and blank errors on
attempted certification

1. Wet Bath Simulator Solution

- a. Level 0.100
- b. Manufacturer Guth
- c. Lot 18370
- d. Expiration Date 12/05/20

2. Wet Bath Simulator

- a. Serial Number DR4177
- b. Date Calibrated 10/08/19

3. Attach Calibration Factors

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100357

Date: 01/22/2020
Time: 15:18:20

OPERATOR NAME:
DEREK WALTON
CERTIFICATE #: 9508

Ca = 0.1000
CAL = 0.957741 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0052 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0902 0.0500 <= Xq < 0.2000
a21 = 1.186339 1.050 <= a21 < 1.300
a31 = 0.526948 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100357

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 01/22/2020

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.48: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020
TANK PRESSURE: 1108 psi

BLANK TEST	0.000	15:49
INTERNAL STANDARD	✓ VERIFIED	15:49
Xq = 0.090 (0.39%)		
EXTERNAL STANDARD	0.077	15:49
X[1] = 0.0775 (0.0001) (0.0025)		
BLANK TEST	0.000	15:50
EXTERNAL STANDARD	0.077	15:51
X[1] = 0.0768 (-0.0004) (0.0027)		
BLANK TEST	0.000	15:51
EXTERNAL STANDARD	0.077	15:52
X[1] = 0.0772 (-0.0001) (0.0024)		
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.077	15:53
X[1] = 0.0773 (-0.0002) (0.0026)		
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.077	15:54
X[1] = 0.0772 (-0.0002) (0.0023)		
BLANK TEST	0.000	15:55

Average = 0.0770
Std Dev = 0.0000

Diagnostic Check

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.86 V	PASSED
(1.12 V - 2.60 V)	
Cooler Voltage = 1.79 V	PASSED
(1.07 V - 2.51 V)	
Bias Voltage = 78 V	PASSED
(47 V - 109 V)	
Chopper Freq = 531 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.5 in	

PUMP INFO

Flow Rate = 4.406 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 = 0.089 0.97% (0.00% - 4.00%)	