

Alaska Scientific Crime Detection Laboratory

DataMaster Adjustment Form

Effective: 12/21/2022

Version: 2.0

Instrument #: 100672

Analyst: C. O. Bryant

Date: 4/29/24

Reason for Adjustment

Adjusted during breath alcohol analyst training for observation purposes. Instrument was at "Ready to Calibrate" prior to use in training.

0.100 Adjustment Simulator Solution

Manufacturer: Life/loc

Lot: 22HP41201

Expiration Date: 8/24/24

0.100 Adjustment Wet Bath Simulator

Serial Number: SD1198

Verification Performed?

Calibrated External Thermometer

Serial Number: 230631106

Calibration Due Date: 9/19/25

Blank (Water) Wet Bath Simulator

Serial Number: DR5298

Verification Performed?

- Attach "Cal Factors"
- Attach Verification of Calibration (VOC)
- Internal Standard Value \leq 3.00%

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100672

Date: 04/29/2024
Time: 12:07:38

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.978329 0.800 <= CAL < 1.200
b1 = 0.0013 0.0000 <= b1 < 0.0040
b2 = 0.0058 0.0010 <= b2 < 0.0100
b3 = 0.0012 0.0000 <= b3 < 0.0040
Xq = 0.1127 0.0500 <= Xq < 0.2000
a21 = 1.148807 1.050 <= a21 < 1.300
a31 = 0.554893 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100672

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/29/2024

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.74: 0.080
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 455 psi

BLANK TEST	0.000	12:28
INTERNAL STANDARD	VERIFIED	12:28
Xq = 0.113 (0.63%)		
EXTERNAL STANDARD	0.077	12:29
X[1] = 0.0772 (0.0005) (0.0020)		
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.077	12:30
X[1] = 0.0774 (0.0008) (0.0014)		
BLANK TEST	0.000	12:31
EXTERNAL STANDARD	0.077	12:31
X[1] = 0.0772 (-0.0005) (0.0012)		
BLANK TEST	0.000	12:32
EXTERNAL STANDARD	0.077	12:32
X[1] = 0.0770 (-0.0006) (0.0009)		
BLANK TEST	0.000	12:33
EXTERNAL STANDARD	0.078	12:33
X[1] = 0.0779 (-0.0006) (0.0017)		
BLANK TEST	0.000	12:34

Average = 0.0772
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.1°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 45.9°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 2.10 V	PASSED
(1.26 V - 2.94 V)	
Cooler Voltage = 1.96 V	PASSED
(1.18 V - 2.76 V)	
Bias Voltage = 79 V	PASSED
(47 V - 111 V)	
Chopper Freq = 546 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.7 in	

PUMP INFO

Flow Rate = 5.148 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
(0.003 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.114 1.02%	PASSED
(0.00% - 4.00%)	