

Alaska Scientific Crime Detection Laboratory

DataMaster Adjustment Form

Effective: 12/21/2022

Version: 2.0

Instrument #: 100416

Analyst: C. Bryant

Date: 10/3/23

Reason for Adjustment

Adjustment following replacement of
filter wheel assembly (not detector)

0.100 Adjustment Simulator Solution

Manufacturer: Liteloc

Lot: 22HP41201

Expiration Date: 8/24/24

0.100 Adjustment Wet Bath Simulator

Serial Number: 001176

Verification Performed?

Calibrated External Thermometer

Serial Number: 210958384

Calibration Due Date: 11/9/23

Blank (Water) Wet Bath Simulator

Serial Number: 0024162

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: 100416

Date: 10/03/2023
Time: 15:45:22

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.978563 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0053 0.0010 <= b2 < 0.0100
b3 = 0.0005 0.0000 <= b3 < 0.0040
Xq = 0.0905 0.0500 <= Xq < 0.2000
a21 = 1.157270 1.050 <= a21 < 1.300
a31 = 0.500444 0.300 <= a31 < 0.800

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100416

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/03/2023

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.89: 0.080
LOT #: AG310901
EXPIRATION: 04/19/2025
TANK PRESSURE: 906 psi

BLANK TEST	0.000	16:03
INTERNAL STANDARD	VERIFIED	16:03
Xq = 0.091 (0.00%)		
EXTERNAL STANDARD	0.079	16:04
X[1] = 0.0789 (-0.0015) (0.0016)		
BLANK TEST	0.000	16:04
EXTERNAL STANDARD	0.079	16:05
X[1] = 0.0788 (-0.0012) (0.0018)		
BLANK TEST	0.000	16:06
EXTERNAL STANDARD	0.079	16:06
X[1] = 0.0787 (-0.0026) (0.0015)		
BLANK TEST	0.000	16:07
EXTERNAL STANDARD	0.079	16:07
X[1] = 0.0792 (-0.0006) (0.0017)		
BLANK TEST	0.000	16:08
EXTERNAL STANDARD	0.079	16:08
X[1] = 0.0788 (-0.0018) (0.0014)		
BLANK TEST	0.000	16:09

Average = 0.0790
Std Dev = 0.0000

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 = 41.4°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.58 V	PASSED
(0.95 V - 2.21 V)	
Cooler Voltage = 1.53 V	PASSED
(0.92 V - 2.14 V)	
Bias Voltage = 82 V	PASSED
(49 V - 115 V)	
Chopper Freq = 524 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.9 in	

PUMP INFO

Flow Rate = 4.742 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 = 0.091 (0.00%) (0.00% - 4.00%)	