

# Alaska Scientific Crime Detection Laboratory

## DataMaster Repair Form

Effective: 3/20/2025

Version: 2.0

Instrument #: 100683

Analyst(s): Kaija Swisher

Start Date: 7/15/25

### Reason for Repair

Internal Standard errors in field. Significant detector noise observed during adjustment.

### Troubleshooting/Repair

Replaced detector. Adjustment needed.

Internal standard value over 3%. Due to internal standard error, a VOC and non-drinking subject test could not be completed. - KS 7/21/25

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> VOC (attached)                 | <input checked="" type="checkbox"/> Verify software version   |
| <input type="checkbox"/> VOC Internal Standard value $\leq 3.00\%$ | <input type="checkbox"/> Non-Drinking Subject Test (attached) |
| <input checked="" type="checkbox"/> Ready for Adjustment           | <input type="checkbox"/> Ready for Calibration                |
| <input type="checkbox"/> Further Repair Needed                     | <input type="checkbox"/> Return to Factory                    |
| <input type="checkbox"/> Proceed to Close Out                      |   |

End Date: 07/15/2025 - KS

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Approved by: Chemistry Supervisor

# CALIBRATION FACTORS

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Alaska Department of Public Safety  
DATAMASTER dmt: 100683  
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Date: 06/16/2025  
Time: 11:50:25

OPERATOR NAME:  
DEREK WALTON  
CERTIFICATE #: 9508

Ca = 0.1000  
CAL = 0.962878    0.800 <= CAL < 1.200  
b1 = 0.0013    0.0000 <= b1 < 0.0040  
b2 = 0.0084    0.0010 <= b2 < 0.0100  
b3 = 0.0008    0.0000 <= b3 < 0.0040  
Xq = 0.0991    0.0500 <= Xq < 0.2000  
a21 = 1.200323    1.050 <= a21 < 1.300  
a31 = 0.518975    0.300 <= a31 < 0.800

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100683

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/15/2025

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 30.18: 0.081

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 337 psi

BLANK TEST

0.000 11:53

INTERNAL STANDARD

ERROR 11:53

Xq = 0.104 (5.14%)

Internal Standard Error

## 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 = 45.3°C

PASSED

(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.76 V

PASSED

(1.06 V - 2.46 V)

Cooler Voltage = 1.79 V

PASSED

(1.07 V - 2.51 V)

Bias Voltage = 79 V

PASSED

(47 V - 111 V)

Chopper Freq = 513 Hz

PASSED

(475 Hz - 575 Hz)

Barometer = 30.2 in

### PUMP INFO

Flow Rate = 4.205 L/M

PASSED

(3.500 L/M - 6.500 L/M)

### DETECTOR INFO

PUMP ON

PASSED

(0.001 V <= 0.010 V)

PUMP OFF

PASSED

(0.001 V <= 0.010 V)

### FILTER INFO

Filter 1

PASSED

Filter 2

PASSED

Filter 3

PASSED

### INTERNAL STANDARD

PASSED

Xq = 0.103 3.63% (0.00% - 4.00%)

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100683

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/15/2025

## External Standard Test Values

## Diagnostic Check

### VERSIONS

DMT: 3.02

PIC: 3.03

Modem: 2.6

Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.8°C

PASSED

(44.0°C - 52.0°C)

Breath Tube = 48.1°C

PASSED

(38.0°C - 50.0°C)

### SETTINGS

Lamp Voltage = 1.76 V

PASSED

(1.06 V - 2.46 V)

Cooler Voltage = 1.79 V

PASSED

(1.07 V - 2.51 V)

Bias Voltage = 79 V

PASSED

(47 V - 111 V)

Chopper Freq = 517 Hz

PASSED

(475 Hz - 575 Hz)

Barometer = 30.2 in

### PUMP INFO

Flow Rate = 4.203 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

(0.001 V <= 0.010 V)

### FILTER INFO

Filter 1

PASSED

Filter 2

PASSED

Filter 3

PASSED

### INTERNAL STANDARD

FAILED

Xq = 0.103 4.25% (0.00% - 4.00%)

Diagnostic Check Failed