

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 05/15/2020  
Effective: 05/15/2020

Version: DMEF 2020 R0  
Status: Active

Instrument # 100687

Start Date: 7/23/21

Analysts: Brandi Barnett

Reason for instrument evaluation

Internal Std error in field

Visual Inspection

- Clean
- Replace missing screws
- Cermetex Box is secure
- Ensure modem cable present
- Gas Valve upright or secured to wall
- All tubing and connections are secure
- O-ring inspection and ensure 2 O-rings in replacement bag

Troubleshooting/Repair

Recommend calibration. Failing shortly  
after placing in service.  
Still failing internal standard at lab.

- VOC (attached) Failed internal std.
- Internal Standard value  $\leq 3.00\%$
- Verify software version
- Return to Factory for Repair
- Ready for Calibration
- Ready for Certification
- Proceed to Close Out

End Date: 7/26/21

DIAGNOSTIC RECORD

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Alaska Department of Public Safety  
DATAMASTER dmt: 100687  
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Date: 07/26/2021  
Time: 08:03:38

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 = 46.7°C PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.59 V PASSED  
(0.95 V - 2.23 V)  
Cooler Voltage = 1.61 V PASSED  
(0.97 V - 2.25 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 528 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.430 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  
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED  
Filter 2 PASSED  
Filter 3 PASSED

INTERNAL STANDARD

FAILED  
Xq = 0.132 41.57% (0.00% - 4.00%)

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100687  
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Date: 07/23/2021  
Time: 15:29:12

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 = 45.9°C PASSED  
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.59 V PASSED  
(0.95 V - 2.23 V)  
Cooler Voltage = 1.61 V PASSED  
(0.97 V - 2.25 V)  
Bias Voltage = 80 V PASSED  
(48 V - 112 V)  
Chopper Freq = 517 Hz PASSED  
(475 Hz - 575 Hz)  
Barometer = 29.7 in

PUMP INFO

Flow Rate = 4.161 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 FAILED

Xq = 0.131 41.09% (0.00% - 4.00%)

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100687  
-----

Date: 07/23/2021  
Time: 15:29:12

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 45.9°C	PASSED

PUMP INFO	
Flow Rate = 4.161 L/M	PASSED

DETECTOR INFO	
PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO	
Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	FAILED
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# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100687

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/26/2021

## External Standard Test Values

## Diagnostic Check

### VERSIONS

DMT: 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.9°C  
(44.0°C - 52.0°C)

PASSED

Breath Tube = 46.7°C  
(38.0°C - 50.0°C)

PASSED

### SETTINGS

Lamp Voltage = 1.59 V  
(0.95 V - 2.23 V)

PASSED

Cooler Voltage = 1.61 V  
(0.97 V - 2.25 V)

PASSED

Bias Voltage = 80 V  
(48 V - 112 V)

PASSED

Chopper Freq = 522 Hz  
(475 Hz - 575 Hz)

PASSED

Barometer = 29.8 in

### PUMP INFO

Flow Rate = 4.430 L/M  
(3.500 L/M - 6.500 L/M)

PASSED

### DETECTOR INFO

PUMP ON  
(0.001 V <= 0.010 V)

PASSED

PUMP OFF  
(0.002 V <= 0.010 V)

PASSED

### FILTER INFO

Filter 1

PASSED

Filter 2

PASSED

Filter 3

PASSED

### INTERNAL STANDARD

Xq = 0.132 42.43% (0.00% - 4.00%)

FAILED

Diagnostic Check Failed