

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Issued: 08/08/2017
Effective: 08/10/2017

Version: DMEF2017 R1
Status: Active

Instrument # 100400

Date: 9/27/17

Analyst: C. O'Bryant

1. Reason for instrument evaluation

Detector overflow

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

Adjusted Lamp/Cooler/Bias voltages to bring detector voltage back to 0.000 (± 0.100) and monitored. COB 9/27/17

Confirmed stable detector voltage 10/2/17 COB

Attempted a VOC and got multiple internal standard failures.

5. VOC (attached)

6. Internal Standard value \leq 3.00% Yes No

7. Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100397

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 09/27/2017

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.82: 0.080
LOT #: AG608504
EXPIRATION: 03/25/2018
TANK PRESSURE: 543 psi

BLANK TEST	0.000	11:44
INTERNAL STANDARD	VERIFIED	11:44
EXTERNAL STANDARD	0.076	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.075	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.076	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.075	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.075	11:49
BLANK TEST	0.000	11:50

Average = 0.0754
Std Dev = 0.0005

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 4.040 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

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Serial #: 100400

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Date: 10/02/2017

External Standard Test Values

Diagnostic Check

VERSIONS

BMT: 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 = 47.6°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.71 V PASSED
(1.00 V - 2.32 V)
Cooler Voltage = 1.61 V PASSED
(0.97 V - 2.25 V)
Bias Voltage = 80 V PASSED
(47 V - 109 V)
Chopper Freq = 525 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.656 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
(0.002 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.105 5.36% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100400

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 10/02/2017

External Standard Test Values

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 46.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.71 V PASSED
(1.00 V - 2.32 V)
Cooler Voltage = 1.61 V PASSED
(0.97 V - 2.25 V)
Bias Voltage = 80 V PASSED
(47 V - 109 V)
Chopper Freq = 526 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.738 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

Xq = 0.106 6.16% (0.00% - 4.00%) FAILED

Diagnostic Check Failed

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100400

Date: 10/02/2017
Time: 13:07:28

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 = 48.1°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.71 V PASSED
(1.00 V - 2.32 V)
Cooler Voltage = 1.61 V PASSED
(0.97 V - 2.25 V)
Bias Voltage = 80 V PASSED
(47 V - 109 V)
Chopper Freq = 527 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.5 in

PUMP INFO

Flow Rate = 4.725 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

Xq = 0.106 5.80% (0.00% - 4.00%) FAILED