

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

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

Version: DMEF2017 R1
Status: Active

Instrument # 100384

Date: 3/7/18

Analyst: Brandi Barnett
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1. Reason for instrument evaluation

Frozen, White Display

2. Visual Inspection (internal and external)

3. O-ring inspection

4. Troubleshooting/Repair

Rivets on hinge broken and lid is no longer connected to instrument.

White screen can periodically be regenerated when turning instrument on and off. Rebooting makes it look normal and VOC looks fine.

4/25/18

Replaced controller board + screen, did not fix the issue. Reinstalled full version of 3.02 software and repeatedly started instrument w/out white screen. CAB 4/25/18

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 #: 100384

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/07/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 685 psi

BLANK TEST 0.000 08:40
INTERNAL STANDARD VERIFIED 08:40
Xq = 0.085 (1.01%)
EXTERNAL STANDARD 0.076 08:40
X[1] = 0.0764 (-0.0029) (-0.0024)
BLANK TEST 0.000 08:41
EXTERNAL STANDARD 0.076 08:41
X[1] = 0.0761 (-0.0029) (-0.0019)
BLANK TEST 0.000 08:42
EXTERNAL STANDARD 0.077 08:42
X[1] = 0.0766 (-0.0027) (-0.0018)
BLANK TEST 0.000 08:43
EXTERNAL STANDARD 0.076 08:43
X[1] = 0.0763 (-0.0034) (-0.0025)
BLANK TEST 0.000 08:44
EXTERNAL STANDARD 0.076 08:44
X[1] = 0.0764 (-0.0029) (-0.0017)
BLANK TEST 0.000 08:45

Average = 0.0762
Std Dev = 0.0004

Diagnostic Check

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.6°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 45.5°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.65 V PASSED
(0.97 V - 2.27 V)
Cooler Voltage = 1.59 V PASSED
(0.89 V - 2.09 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 511 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.708 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 = 0.080 (0.20% (50.00% - 4.00%)) PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100384

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 04/25/2018

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.83: 0.080
LOT #: AG634001
EXPIRATION: 12/05/2018
TANK PRESSURE: 641 psi

BLANK TEST	0.000	15:31
INTERNAL STANDARD	VERIFIED	15:31
Xq = 0.085	(1.11%)	
EXTERNAL STANDARD	0.075	15:31
X[1] = 0.0754	(-0.0018)	(-0.0008)
BLANK TEST	0.000	15:32
INTERNAL STANDARD	0.075	15:33
X[1] = 0.0755	(-0.0029)	(-0.0012)
BLANK TEST	0.000	15:33
INTERNAL STANDARD	0.075	15:34
X[1] = 0.0752	(-0.0026)	(-0.0017)
BLANK TEST	0.000	15:35
INTERNAL STANDARD	0.075	15:35
X[1] = 0.0751	(-0.0033)	(-0.0013)
BLANK TEST	0.000	15:36
INTERNAL STANDARD	0.075	15:36
X[1] = 0.0754	(-0.0028)	(-0.0005)
BLANK TEST	0.000	15:37

Average = 0.0750
Std Dev = 0.0000

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 = 43.6°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.72 V	PASSED
(0.97 V - 2.27 V)	
Cooler Voltage = 1.71 V	PASSED
(0.89 V - 2.09 V)	
Bias Voltage = 79 V	PASSED
(48 V - 112 V)	
Chopper Freq = 535 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.8 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 PASSED
Xq = 0.085 (2.22%) (0.00% - 4.00%)

COS 4/25/18
post 3.02 reinitial