



Test report issued under the responsibility of:
EMITECH MONTPELLIER laboratory
MRA US-EU Designation Number: FR0006
Canadian CAB Identifier: FR0003

RF EXPOSURE TEST REPORT

KDB 447498 D01 V06

Company : **SUBLIMED**
Address..... : 9 RUE DU ROCHER DE LORZIER
38430 MOIRANS
FRANCE

Test item description : **Nerve stimulator**
Trade Mark : actiTENS
Manufacturer..... : SUBLIMED
Model/Type reference..... : B8 / actiTENS
FCC ID..... : 2BALKSBM
Ratings..... : 100-240Vac/50-60Hz

Testing Laboratory : **EMITECH MONTPELLIER laboratory**
Address..... : 145 rue de Massacan
34740 VENDARGUES
FRANCE

Report Reference No..... : **RR-EVE-22P427-1A**
Test procedure : FCC Certification
Diffusion..... : Mrs JOUVIE Camille
Applicant's name : SUBLIMED
Date of issue..... : June 15, 2023
Total number of pages..... : 9
Revision : 0
Compiled by..... : Alexis TOUZET
Approved by (+ signature) : Olivier HEYER (Laboratory Manager)



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REVISION HISTORY:

Revision	Date	Modified pages	Modifications
0	June 15, 2023	/	Creation

1. GENERAL INFORMATION

This document submits the results of Radio tests performed on the equipment **Nerve stimulator actiTENS SBM1AA100** (denominated hereafter E.U.T.: equipment under test) according to document(s) listed in §2 of this test report.

TESTING PROCEDURE AND TESTING LOCATION:					
Testing Location : EMITECH MONTPELLIER laboratory Address. : 145 rue de Massacan 34740 VENDARGUES FRANCE Test procedure. : FCC Certification Tested by : Alexis TOUZET Test supervisor : None Date of receipt of test item : N/A Date (s) of performance of tests : From February 15 th to 17 th of 2022					
APPLICANT'S GENERAL INFORMATION:					
Company name : SUBLIMED Company address. : 9 RUE DU ROCHER DE LORZIER 38430 MOIRANS FRANCE Person(s) present during the tests. : No representative for company attended the tests. Responsible. : Mrs JOUVIE Camille Mr CHAMBON Bertrand					
GENERAL REMARKS:					
The information in <i>italics</i> is declared by the manufacturer and is under his responsibility The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report the decimal separator is point.					
POSSIBLE TEST CASE VERDICTS:					
Test case does not apply to the test object.: N/A Test case not performed.....: N/P Test object does meet the requirement.....: P (Pass) Test object does not meet the requirement. F (Fail) :					
DEFINITIONS AND ABBREVIATIONS:					
E.U.T.	Equipment Under Test	AE	Ancillary Equipment	Pk	Peak detector
RBW	Resolution BandWidth	VBW	Video BandWidth	QP	Quasi-peak detector
FSOATS	Free Space Open Area Test Site	FAR	Full Anechoic Room	Av	Average detector
VP	Vertical Polarization	HP	Horizontal Polarization	RMS	Root Mean Square
RF	Radio Frequency	N.T.R	Nothing To Report	N/C	Not Communicated
SAC	Semi Anechoic Chamber				

2. REFERENCE DOCUMENT(S)

NORMATIVE REFERENCES:

The following referenced documents are necessary for the application of the present test report.

FCC 47 CFR PART 15

Code of federal regulations – Title 47 telecommunication

Part 15- Radio frequency devices

KDB 447498 D01 v06

RF exposure procedures and equipment authorization policies for mobile and portable devices.

RR-EVE-22P427-1A Ed.0

Radio Test Report Emitech.

Although the product standard uses obsolete technical standards, the latest versions of standards achievable by the laboratory will be used for testing.

INFORMATIVE REFERENCES:

The following referenced documents are not necessary for the application of the present test report but they assist the user with regard to a particular subject area.

3. EQUIPMENT TECHNICAL DESCRIPTION

3.1. Test Conditions

Test item description. : *Nerve stimulator*
Model/Type reference..... : *B8 / actiTENS*
FCC ID..... : *2BALKSBM*
Trade Mark. : *actiTENS*
Serial number (S/N)..... : *0007594030698*
Part number (P/N). : *759403*
Software version..... : *2.0*
Firmware version..... : *7.3*
Type of sample..... : *Standard equipment*
Function(s)..... : *Transcutaneous electrical nerve stimulator*
Manufacturer name. : *SUBLIMED*
Address. : *137 rue de Mayoussard*
38430 Moirans
FRANCE

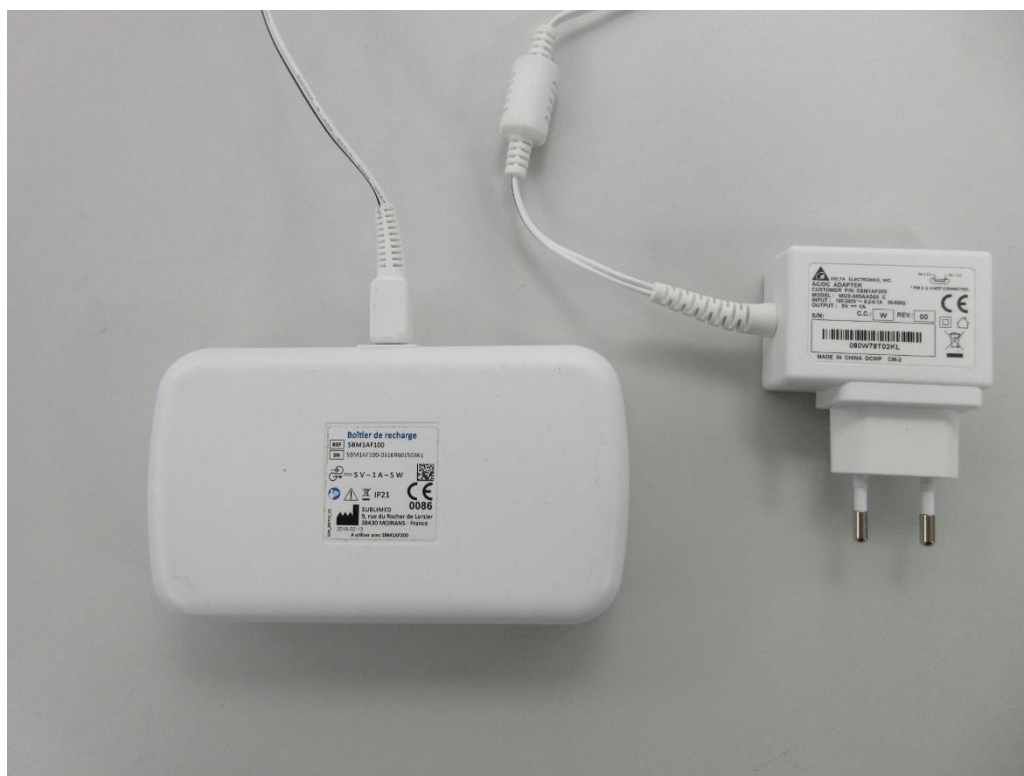
General product information:

N/A

3.2. E.U.T. Marking plate



3.3. Charger Marking plate



3.4. E.U.T. Modification(s)

None

3.5.E.U.T. General view



3.6.E.U.T. Internal view



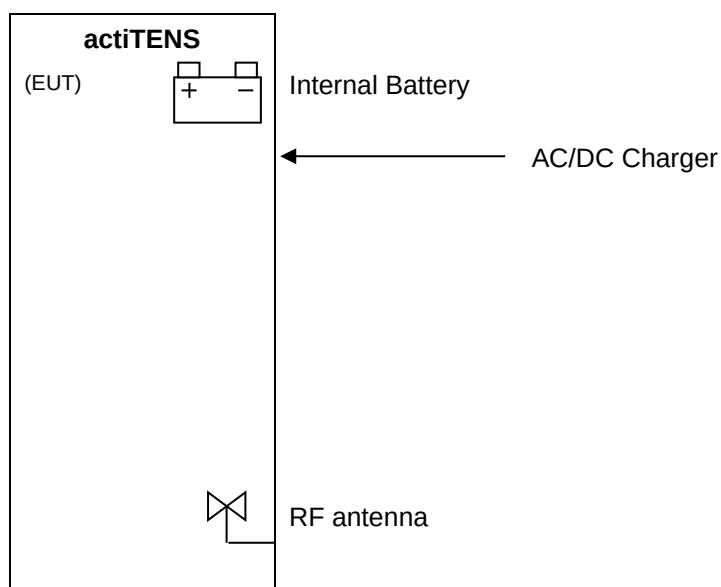
3.7.E.U.T. Mechanical and Electrical Design

Power supply. : 120Vac/60Hz and 230Vac/50Hz
Power supply range..... : 100-240Vac/50-60Hz
Power type..... : Single phase without earth
Power (W)..... : 5
Nominal current (A). : 0.2
Dimensions (L x W x H) (mm). : 108 x 53.5 x 18
Weight (kg). : 115g
Temperature range (°C). : -25 to +85
Ground bounding strap..... : No

Comments:

N/A

3.8.E.U.T. Input/Output ports



PORT	NAME	TYPE	LENGTH	CABLE TYPE	COMMENTS
0	Main frame	N/E	N/A	Plastic	-
1	Battery	DC	N/A	N/A	Not communicated
2	AC/DC Charger	AC/DC	N/A	2P	120Vac/60Hz to 5Vdc
3	RF antenna	RF	N/A	N/A	WiFi 2.4GHz

AC/DC : AC/DC Converter port

I/O : Input or Output port

N/E : Non Electrical port

AC..... : Alternative current port

TP : Telecommunication port

DC..... : Direct current port

RF : Radio frequency port

3.9. EUT Radio Specifications

a) GENERAL INFORMATIONS	
According to manufacturer's declarations :	
EUT type.....	Transmitter
Technology	Bluetooth Low Energy (BLE)
Environmental profile.....	Data transmission
Temperature range.....	-25°C to +85°C
Antenna type	Integral
Antenna Gain.....	0.5 dBi
Comments:	
N/A	
b) TRANSMITTER PARAMETERS (Tx)	
Frequency bands.....	2400MHz to 2483.5MHz
RF Power.....	Not communicated
Number of channels / Separation.....	40 / 2MHz
Modulation type	GFSK
Duty cycle	Continuous
Tested frequency.....	2402MHz (Low channel)
	2426MHz (Mid channel)
	2480MHz (High channel)
c) RECEIVER PARAMETERS (Rx)	
Frequency bands.....	2400MHz to 2483.5MHz
Category/Class	Not communicated
Bandwidth.....	Not communicated

4. RF EXPOSURE

Maximum EIRP = -3.14dBm (0.485mW) at 2426MHz (see Radio test report referenced in §2)

In accordance with KDB 447498 D01 General RF Exposure Guidance v06 Appendix A:
SAR Test Exclusion Power Threshold in range of frequency 1900MHz to 2450MHz is between 10 and 11mW at 5mm distance.
Then SAR test is not necessary. The considered product can therefore be worn without exceeding exposure limits.

End of test report