

RF Exposure Evaluation Report

Product : Ultrasonic Massager
Trade mark : softmoshi
Model/Type reference : SM1
Serial Number : N/A
Report Number : EED32Q81705802
FCC ID : 2BL3T-SOFTMOSHI1
Date of Issue : Jan. 06, 2025
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

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1 Version

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Health Rehold Technology Co., Ltd
Address of Applicant:	Room 2502, Building D2, Nanshan Zhiyuan, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen
Manufacturer:	Shenzhen Health Rehold Technology Co., Ltd
Address of Manufacturer:	Room 2502, Building D2, Nanshan Zhiyuan, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen
Factory:	Shenzhen Health Rehold Technology Co., Ltd
Address of Factory:	Room 2502, Building D2, Nanshan Zhiyuan, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen

3.2 General Description of EUT

Product Name:	Ultrasonic Massager
Model No.(EUT):	SM1
Trade Mark:	softmoshi

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Test Power Grade:	Default	
Test Software of EUT:	RFTest_0901_boxed	
Antenna Type:	Ceramic antenna	
Antenna Gain:	5.05dBi	
Power Supply:	Adapter:	DC 5V/1A
	Battery:	DC3.7V
Sample Received Date:	Oct. 30, 2024	
Sample tested Date:	Oct. 30, 2024 to Nov. 01, 2024	
Remark: Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.		

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure Evaluation

For Stand alone:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2402	0.5	0.41	5.05	3.31	2.1429	2.7877	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP=EIRP-2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32Q81705801 and only the worst case data was recorded in the report.

声明

Statement

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The result(s) shown in this report refer(s) only to the sample(s) tested;

4. 除非另有说明, 报告参照 ILAC-G8:09/2019/CNAS-GL015: 2022 使用简单接受判定规则进行符合性判定;

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;

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*** 报告结束 ***

*** End of Report ***