

EMF TEST REPORT

Test Report No. : OT-204-RWD-042
AGR No. : A202A-377R
Applicant : SINSUNG ICT
Address : #533, 55, Hanyangdaehak-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, Republic of Korea
Manufacturer : SINSUNG ICT
Address : #533, 55, Hanyangdaehak-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, Republic of Korea
Type of Equipment : Personal medium frequency stimulator and body fat meter
FCC ID. : 2AVY4SS-M100K
Model Name : SS-M100K
Multiple Model Name : SS-M100KW, SS-M100KB, SS-M100KR, SS-M100KY, SS-M100KS
Serial number : N/A
Total page of Report : 7 pages (including this page)
Date of Incoming : March 05, 2020
Date of issue : April 08, 2020

SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

Reviewed by:



Ha-Ram Lee / Manager
ONETECH Corp.

Approved by:



Jae-Ho Lee / Chief Engineer
ONETECH Corp.

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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-204-RWD-042	April 08, 2020	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

Applicant : SINSUNG ICT

Address : #533, 55, Hanyangdaehak-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, Republic of Korea

Contact Person : Seung-ho Lee / CEO

Telephone No. : 070-7622-2114

FCC ID : 2AVY4SS-M100K

Model Name : SS-M100K

Brand Name : TOOK TOOK

Serial Number : N/A

Date : April 08, 2020

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Personal medium frequency stimulator and body fat meter
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT	Certification
AUTHORIZATION REQUESTED	
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

- The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. GENERAL INFORMATION

2.1 Product Description

The SINSUNG ICT, Model SS-M100K (referred to as the EUT in this report) is an Personal medium frequency stimulator and body fat meter. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Personal medium frequency stimulator and body fat meter
OPERATING FREQUENCY	2 402 MHz ~ 2 480 MHz
RF OUTPUT POWER	-10.17 dBm
NUMBER OF CHANNEL	40 Channels
MODULATION TYPE	GFSK(Bluetooth LE)
ANTENNA TYPE	Chip Antenna
ANTENNA GAIN	2.3 dBi
LIST OF EACH OSC. OR CRYSTAL. FREQ.(FREQ.>=1 MHz)	32.768 kHz, 24 MHz, 16 MHz
RATED SUPPLY VOLTAGE	DC 3.7 V

2.2 Alternative type(s)/model(s); also covered by this test report.

- The following lists consist of the added model and their differences.

Model Name	Differences	Tested
SS-M100K	Basic Model	<input checked="" type="checkbox"/>
SS-M100KW		<input type="checkbox"/>
SS-M100KB		<input type="checkbox"/>
SS-M100KR	This model is identical to the basic model except for color.	<input type="checkbox"/>
SS-M100KY		<input type="checkbox"/>
SS-M100KS		<input type="checkbox"/>

Note: 1. Applicant consigns only basic model to test. Therefore, this test report just guarantees the units, which have been tested.

2. The Applicant/manufacturer is responsible for the compliance of all variants.

3. EUT MODIFICATIONS

- None

4. MAXIMUM PERMISSIBLE EXPOSURE

4.1 RF Exposure Calculation

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$

4.2 EUT Description

Kind of EUT	Personal medium frequency stimulator and body fat meter	
Operating Frequency Band	<input type="checkbox"/> Wireless Microphone: 494.000 MHz ~ 501.000 MHz <input type="checkbox"/> and 498.200 MHz ~ 505.200 MHz <input type="checkbox"/> WLAN: 2 412 MHz ~ 2 462 MHz <input type="checkbox"/> WLAN: 2 422 MHz ~ 2 452 MHz <input type="checkbox"/> WLAN: 5 180 MHz ~ 5 240 MHz <input type="checkbox"/> WLAN: 5 745 MHz ~ 5 825 MHz <input type="checkbox"/> Bluetooth: 2 402 MHz ~ 2 480 MHz <input checked="" type="checkbox"/> Bluetooth BLE: 2 402 MHz ~ 2 480 MHz <input type="checkbox"/> NFC : 13.56 MHz	
MAX. RF OUTPUT POWER	Bluetooth LE	-10.17 dBm
Antenna Gain	2.3 dBi	
Exposure Evaluation Applied	<input type="checkbox"/> MPE <input type="checkbox"/> SAR <input checked="" type="checkbox"/> SAR Test Exclusion Evaluation	

4.3 Test Result of SAR Exclusion

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}]$$

$$= (0.63/5) \times \sqrt{2.480} = 0.20 < 3$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

Mode	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
BLE	2 402	-10.17 ± 0.5	-9.67	0.11	5	0.03



Tested by: Ha-Ram Lee / Manager