



RF Exposure Report

Report Number : TZ0061260705FRF15
Product Name : Wireless speaker with wireless charger
Model/Type reference : SHRP-BTS12, SHRP-BTS12-WHT
FCC ID : 2AL9B-SHRPBTS12
Prepared for : SHENZHEN SHENGLAI TECHNOLOGY CO.,LIMITED
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Shenzhen, China

Prepared By : Shenzhen Tongzhou Testing Co.,Ltd.
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Standards : 680106 D01 Wireless Power Transfer v04
Date of Test : 2026-07-21 ~ 2026-08-05
Date of Issue : 2026-08-06

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(Authorized Officer)



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**** Report Revise Record ****

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2026-08-06	Valid	Initial release





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1. GENERAL INFORMATION

1.1. Client Information

Applicant	: SHENZHEN SHENGLAI TECHNOLOGY CO., LIMITED
Address	: Room 1110, Block A, Zhuoyuecheng Phase 2, Meilin Road, Futian District, Shenzhen, China
Manufacturer	: Guangdong Shenglai Technology Co., Ltd
Address	: Zhongtai Industrial Zone, Hengshan Village, Gurao Town, Chaoyang District, Shantou City, Guangdong Province, China

1.2. Description of Device (EUT)

Product Name	: Wireless speaker with wireless charger
Trade Mark	: SHARPER IMAGE
Model Number	: SHRP-BTS12, SHRP-BTS12-WHT
Model Declaration	: All the same except for the model name.
Test Model	: SHRP-BTS12
Power Supply	: DC 3.7V by battery or DC 5V/9V by adapter
Hardware version	: V1.0
Software version	: V1.0

1.3. Wireless Function Tested in this Report

WPT	
Operation Frequency	: 110.5 – 205 kHz
Test Frequency	: 122.030 kHz
Modulation Technology	: ASK
Antenna Type and Gain	: Coil Antenna with 0 dBi Gain

Note 1: Antenna position refer to EUT Photos.

Note 2: the above information was supplied by the applicant.





1.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● supplied by the manufacturer

○ supplied by the lab

○	Adapter	Model:	MDY-10-EH
		Input:	100-240VAC 50/60Hz 0.7A
		Output:	DC 5V-3A, 9V-2A

1.5. Description of Test Facility

FCC

Designation Number: CN1275

Test Firm Registration Number: 167722

Shenzhen Tongzhou Testing Co.,Ltd has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA

Certificate Number: 5463.01

Shenzhen Tongzhou Testing Co.,Ltd has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

IC

ISED#: 22033

CAB identifier: CN0099

Shenzhen Tongzhou Testing Co.,Ltd has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4 and CISPR 16-1-4:2010





1.6. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the Shenzhen Tongzhou Testing Co., Ltd’s quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.7. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
E-Field Strength	:	3KHz~0.4MHz	±1.5dB	(1)
	:	0.4MHz~10MHz	±1.3dB	(1)
H-Field Strength	:	3KHz~0.4MHz	±1.3dB	(1)
	:	0.4MHz~10MHz	±1.2dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8. Description of Test Modes

The EUT has been tested under operating condition.

Test Modes:		
Mode 1	EUT + Wireless charger tester (Full Load: 99% of 15W)	Record
Mode 2	EUT + Wireless charger tester (Half Load: 50% of 15W)	Pre-test
Mode 3	EUT + Wireless charger tester (Null Load: <1%)	Pre-test
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		





2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

2.3. Test Sample

Sample ID	Description
TZ0061260705-1#	Normal sample

2.4. Special Accessories

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/ unshielded	Notes
1	WPT Test Load	YBZ	EPP	/	/	/	/

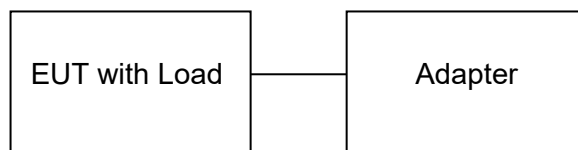
2.5. Test Instruments

Equipment	Manufacturer	Model	Serial no.	Calibrated date	Calibrated Due
Magnetic field probe	WAVECONTROL	SMP2/WP400	19SN1101/19WP100558	2026-07-03	2027-07-02

2.6. Equipment Modifications

Shenzhen Tongzhou Testing Co.,Ltd has not done any modification on the EUT.

2.7. Configuration of Tested System





3. TEST RESULT

3.1. Limit of Maximum Permissible Exposure

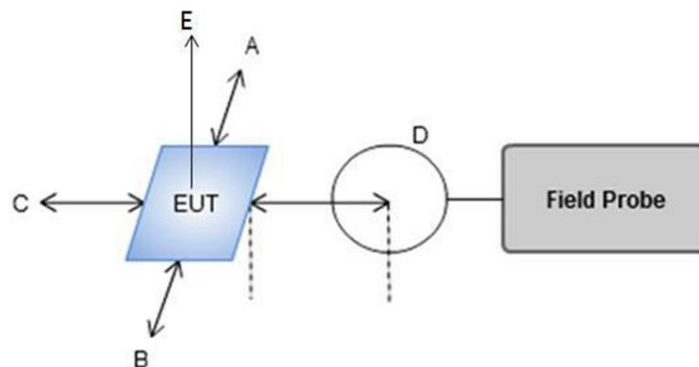
Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6
Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

Note 1: f = frequency in MHz; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, FCC KDB680106 D01 Wireless Power Transfer v04

Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

3.2. Measurement Setup





3.3. Measurement Procedure

For mobile RF exposure

- a) E-field and H-field measurements should be taken with the probe geometric center located 20cm around the EUT and 20cm above the top surface of the master/client pair.
- b) The highest emission level was recorded and compared with limit as soon as measurement of each point (A, B, C, D, E) were completed.





3.4. Result of Maximum Permissible Exposure

For all the cases mentioned above, E and H measurements should be made from all sides of the transmitter, along all the principal axes defined with respect to the orientation of the transmitting element (e.g., coil or antenna). When clearly demonstrated, symmetry considerations may be used to reduce the amount of testing. Furthermore, for “low-frequency” loop/coil emitting structures that lead to dominant H-field near field emissions (i.e., with E/H ratio less than 1/10 of the 377-ohm free space wave impedance, typically frequencies less than 1 MHz), only H-field measurements are sufficient for demonstrating MPE limit compliance.

Test condition: Mode 1(Worst)						
Distance(cm)	Measured H-Field Strength Values (A/m)					Limit(A/m)
	Position A	Position B	Position C	Position D	Position E	
20	0.11	0.10	0.10	0.11	0.51	1.63
22	0.09	0.11	0.11	0.10	0.39	1.63
24	0.08	0.10	0.09	0.09	0.30	1.63





4. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for WPT Test Setup Photos of the EUT.

5. EXTERIOR PHOTOGRAPHS OF EUT

Please refer to separated files for External Photos of the EUT.

6. INTERIOR PHOTOGRAPHS OF EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----

