

WPT RF EXPOSURE TEST REPORT

Applicant : Shenzhen Semetor Electronics Co., LTD
Address : B3, 3th floor, guanglong building, No.162, pingxin north road, hehua community, pinghu street, longgang district, shenzhen city, Guangdong Province, China
Manufacturer : Shenzhen Semetor Electronics Co.,LTD.
Address : 8th/9th Floor, Hongwei Technology Building, Building B, No. 2 Weiling Road, Egongling Community, Pinghu Street, Longgang District, Shenzhen City, Guangdong Province
Product Name : 5-IN-1 MAGNETIC WIRELESS CHARGING SPEAKER
Model Number : S37, S_37
Trademark : N/A
FCC ID : 2AYRH-S37
Test Date : Apr. 17, 2026 - Jun. 04, 2026
Date of Report : Jun. 09, 2026
Test Result : This device described above has been tested by BKC, and the test results show that the equipment under test (EUT) is in compliance with the Standard requirements. And it is applicable only to the tested sample identified in the report.

Test Procedure Used:

Standards : FCC part 2.1091
KDB 680106 D01 Wireless Power Transfer v04

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Reviewer(Supervisor):
Casey Wang



Approved(Manager):
Jerry Liao



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Revision History of This Test Report

[illegible]

1. General Information

1.1. Customer basic information

Contacts : /
E-Mail : /
Telephone : /

1.2. Description of Device (EUT)

Product Name : 5-IN-1 MAGNETIC WIRELESS CHARGING SPEAKER
Product Model No : S37, S_37
Model Difference : Only the model names are different. The main tested model is S37.
Test Auxiliary1 : Adapter
Test Auxiliary2 : Phone
Test Auxiliary3 : Earbuds
Test Auxiliary4 : Watch
Test Auxiliary Model No. 1 : HW088
Test Auxiliary Model No. 2 : Apple 13
Test Auxiliary Model No. 3 : Air pods pro
Test Auxiliary Model No. 4 : Watch 10
Transmitting mode : Keep the EUT in continuously wireless charging mode
Power supply : Rating(s): 5V=== 3A, 9V=== 3A, 12V=== 3A, 15V=== 3A
Mobile phone charging power: 5W/7.5W/10W/15W/25W
Earphone charging power: 5W
Watch charging power: 2.5W
Led Power: 0.6W

1.3. Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
/	/	/	/	/	/

1.4. Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Hardware Version	Software Version
/	/	/	/	/

1.5. Test mode

The special RF test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode.

Pretest Test Mode	Description of Mode
1	Mobile phone charging: 5W+Earphone charging: 5W+Watch charging power: 2.5W
2	Mobile phone charging: 7.5W+Earphone charging: 5W+Watch charging power: 2.5W
3	Mobile phone charging: 10W+Earphone charging: 5W+Watch charging power: 2.5W
4	Mobile phone charging: 15W+Earphone charging: 5W+Watch charging power: 2.5W
5	Mobile phone charging: 25W+Earphone charging: 5W+Watch charging power: 2.5W

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

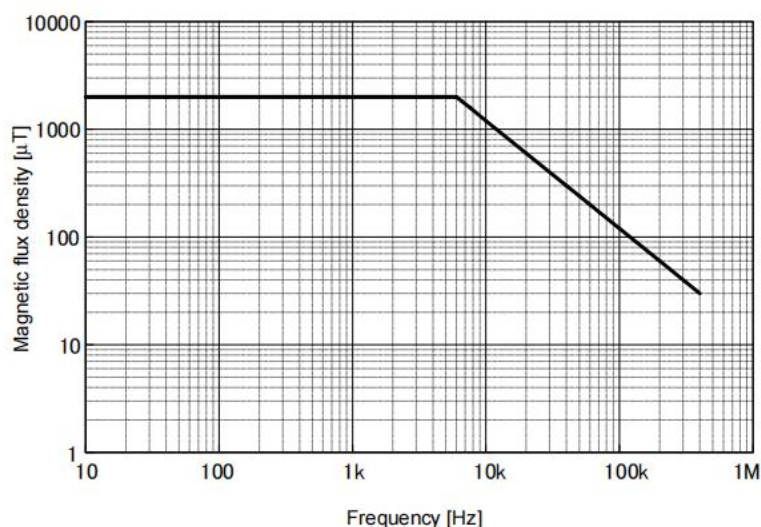
1.6. Sensor Specifications

Specifications

Accuracy at 23°C±5°C, 80% RH or less (no condensation)

Sensor cross-sectional area	100 cm ²
Rated magnetic flux density	2 mT at a single axis (There is a derating characteristics dependent on frequency)
Frequency characteristics	10 Hz to 400 kHz
Measured axes	X, Y, Z
Place of use	Indoors, up to an altitude of 2000 m
Storage temperature and humidity	-10°C to 50°C, 80% RH or less (no condensation)
Operating temperature and humidity	0°C to 40°C, 80% RH or less (no condensation)
Period of guaranteed accuracy	1 year
External dimensions	Approx. φ122 × 295 (L) mm
Weight	Approx. 210 g (7.4 oz)
Application Standard	Safety EMC EN61010 Pollution degree 2 EN61326

Frequency-dependent derating characteristics



1.7.Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
RF frequency	2×10^{-5}	
E-field	+ 1.06 dB	
H-field	± 0.7 dB	
Temperature	+1 degree	
Humidity	$\pm 5 \%$	

Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%

1.8.Test Facility

Site Description	
Name of Firm	: Shenzhen BKC Testing Co., Ltd.
Site Location	: Room 103, 1/F, Huaya Building, Huaya Industrial Park, Longhua Community, Longhua District, Shenzhen, Guangdong, China.
ISED CAB identifier	: CN0188
ISED Company Number	: 34333
FCC Designation Number	: CN1416
FCC Test Firm Registration Number	: 701543

1.9. Test Equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Exposure Level Tester	HIOKI	HIOKI-3470-01	071016320	Dec. 31 2025	Dec. 30 2026
2	100 cm ² Magnetic Field Sensor	HIOKI	100cm ² sensor	0376-B1	Dec. 31 2025	Dec. 30 2026



2. RF Exposure

2.1.Limit

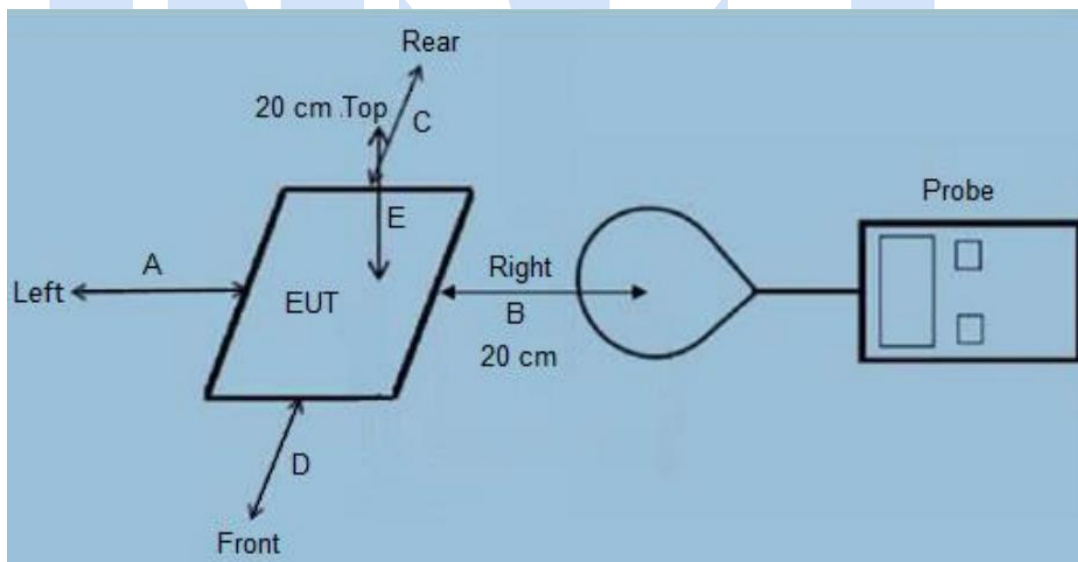
The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
 * =Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

2.2.Test Setup



2.3.Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20 cm from all sides) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 v04.

Remark: The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

2.4. Test Result

Phone Coil E-Filed Strength at 20 cm from the edges surrounding the EUT (V/m)

Frequency Range (kHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (V/m)
110-303	0.78	0.74	0.71	0.75	0.78	614

Earphone Coil E-Filed Strength at 20 cm from the edges surrounding the EUT (V/m)

Frequency Range (kHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (V/m)
110-303	0.77	0.74	0.71	0.73	0.74	614

Watch Coil E-Filed Strength at 20 cm from the edges surrounding the EUT (V/m)

Frequency Range (kHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (V/m)
110-303	0.76	0.72	0.74	0.73	0.77	614

Phone Coil H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (kHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
110-303	0.14	0.11	0.15	0.11	0.16	1.63

Earphone Coil H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (kHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
110-303	0.12	0.14	0.11	0.12	0.13	1.63

Watch Coil H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (kHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
110-303	0.14	0.10	0.13	0.16	0.14	1.63

Total evaluate

E-Filed Strength at 20 cm from the edges surrounding the EUT (V/m)

Frequency Range (kHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits
110-303	0.0038	0.0036	0.0035	0.0036	0.0037	1

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (kHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits
110-303	0.25	0.21	0.24	0.24	0.26	1

Note 1: The EUT of 1%, 50%, 99% have test, the worst case recorded in this report.

Note 2: Total evaluate=Test value/Limits (A/m or V/m), Add all identical test points, Total evaluate<1

3. Test Photographs

Please see Attachment BKC26041865DE-6.



4. Appendix I: Photos of the EUT

Please see Attachment BKC26041865DE-7 and BKC26041865DE-8.

