

FCC MPE TEST REPORT

FCC ID: 2BECK-SE-SP64

Sample: 3 in 1 Foldable Magnetic Wireless Charger

Trade Mark: N/A

Main Model: SE-SP64

Additional Model: N/A

Report No.: UNIA23122714ER-62

Prepared for

SHENZHEN SENZANS INDUSTRIAL CO, LTD

No. 67, Xingfu San Village, Tangxiachong, Yanluo Street, Bao'an District, Shenzhen, China

Prepared by

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TEST RESULT CERTIFICATION

Applicant:	SHENZHEN SENZANS INDUSTRIAL CO, LTD
Address:	No. 67, Xingfu San Village, Tangxiachong, Yanluo Street, Bao'an District, Shenzhen, China
Manufacturer:	SHENZHEN SENZANS INDUSTRIAL CO, LTD
Address:	No. 67, Xingfu San Village, Tangxiachong, Yanluo Street, Bao'an District, Shenzhen, China
Product description	
Product:	3 in 1 Foldable Magnetic Wireless Charger
Trade Mark:	N/A
Model Name:	SE-SP64
Test Methods	FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03
the test results show that the eq requirements. And it is applicabl This report shall not be reproduc	s been tested by Global United Technology Services Co. Ltd., and uipment under test (EUT) is in compliance with the FCC e only to the tested sample identified in the report. Seed except in full, without the written approval, this document may United Technology Services Co. Ltd., personnel only, and shall be ment.
Date of Test	The The
Date (s) of performance of tests.	: Jan. 19, 2024 ~ Jan. 22, 2024
Date of Issue	: Jan. 23, 2024
Test Result	: Pass
Prepared by:	Jason Ye/Editor
Reviewer:	kenyohong
, ei ia.	Kelly Cheng/Supervisor
Approved & Authorized Sign	
	Liuze/Manager

Report No.: UNIA23122714ER-62



Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Test List								
ANT	Frequency (KHz)	ANT	Frequency (KHz)	ANT	Frequency (KHz)			
01	139.6	02	128.6	03	128.0			

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

1. SUMMARY OF TEST RESULTS

1.1 Test procedures according to the technical standards: FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1,	Electric Field Strength (E) (V/m)	N/A	
1.1310 KDB680106 D01 v03(3)(3)	Magnetic Field Strength (H) (A/m)	PASS	N

Compliant with KDB680106 D01 RF Exposure Wireless Charging Apps v03 section 5, b:

- a) Power transfer frequency is less than 1MHz.

 Yes, the working frequency is 139.6KHz, 128.6KHz, 128.0KHz.
- b) Output power from each primary coil is less than or equal to 15 watts. Yes, the maximum output power is 15 watts.
- c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.

Yes, three primary coils can work at the same time to charge three clients.

- d) Client device is placed directly in contact with the transmitter.

 Yes, client device is placed directly in contact with the transmitter.
- e) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion) Yes, EUT is for mobile exposure conditions only.
- f) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. Yes, EUT h-field strengths levels are less than 50% of the MPE limit.



1.2 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	3 in 1 Foldable Magnetic Wireless Charger	N/A	SE-SP64	EUT
E-2	Adapter	Xiaomi	MDY-11-EX	AE
E-3	WPT Station (15W/10W/5W/3W/2W)	N/A	N/A	AE
E-4 AirPods		APPLE	N/A	AE
E-5	Apple Watch	APPLE	N/A	AE

Note:

- 1. The support equipment was authorized by Declaration of Confirmation.
- 2. All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	D.	Uncertainty
13/1	Radiated Measurement (9KHz-30MHz)		±2.50dB
2	Temperature	\	±0.5°C
3	Humidity		±2%

Report No.: UNIA23122714ER-62



Description	Brand	Model No.	Frequency Range	Calibrated Until
Broadband Field Meter	NARDA	NBM-550	_	Jan. 01, 2025
Magnetic Field Meter	NARDA	ELT-400	1–400kHz	Jan. 01, 2025
Magnetic Probe	NARDA	HF-3061	300kHz-30MHz	Jan. 01, 2025
Magnetic Probe	NARDA	HF-0191	27–1000MHz	Jan. 01, 2025
Broadband Field Meter	NARDA	NBM-550	_	Jan. 01, 2025
Electric Field Meter	COMBINOVA	EFM 200	5Hz-400kHz	Jan. 01, 2025
E-Field Probe	NARDA	EF-0391	100kHz-3GHz	Jan. 01, 2025
E-Field Probe	NARDA	EF-6091	100MHz-60GHz	Jan. 01, 2025

NOTE: The calibration interval of the above test instruments is 12 months.

1.5 TEST MODE

NO.	TEST MODE DESCRIPTION						
_ 1	ANT 1 + Full load (10W Folding mode)						
2	ANT 1 + Half load (5W Folding mode)						
3	ANT 1 + Null load (0W Folding mode)						
4	ANT 1 + Full load (10W Before Folding mode)						
5	ANT 1 + Half load (5W Before Folding mode)						
6	ANT 1 + Null load (0W Before Folding mode)						
7	ANT 2 + Full load (battery station 99%) (Before Folding mode)						
8	ANT 2 + Half load (battery station 50%) (Before Folding mode)						
9	ANT 2 + Null load (battery station 1%) (Before Folding mode)						
10	ANT 3 + Full load (battery station 99%) (Before Folding mode)						
11	ANT 3 + Half load (battery station 50%) (Before Folding mode)						
12	ANT 3 + Null load (battery station 1%) (Before Folding mode)						
13	ANT 1 + ANT 2 + ANT 3 + Full load (10W + battery station 99%) (Before Folding mode)						
14	ANT 1 + ANT 2 + ANT 3 + Half load (5W + battery station 50%) (Before Folding mode)						
15	ANT 1 + ANT 2 + ANT 3 + Null load (0W + battery station 1%) (Before Folding mode)						
Note: The mod	le 13 was the worst case and only the data of the worst case record in this report.						



2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

				4.0	
	l Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	3		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	121	ia.	F/300	6	
1500-100,000			5	6	
	Limits for Genera	al Population / Uncontr	olled Exposure		
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	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	0.	12	F/1500	30	
1500-100,000			1	30	

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

- 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03.
- 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.

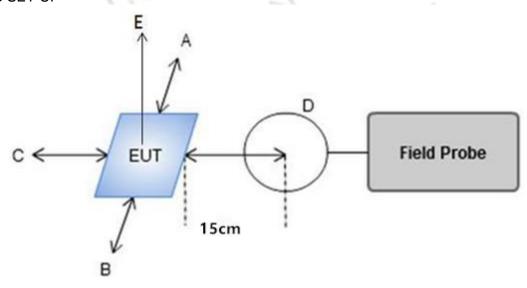
Report No.: UNIA23122714ER-62



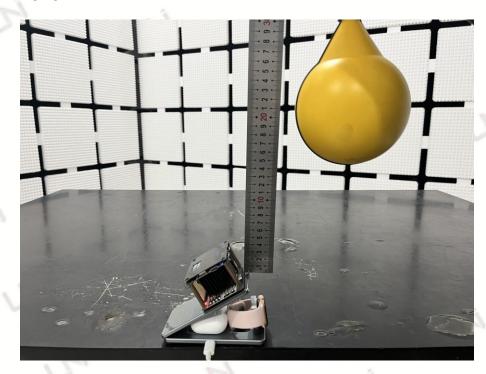
2.2 TEST PROCEDURE

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be at 15 cm surrounding the device and 20 cm above the top surface. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair at 15 cm surrounding the device and 20 cm above the top surface.

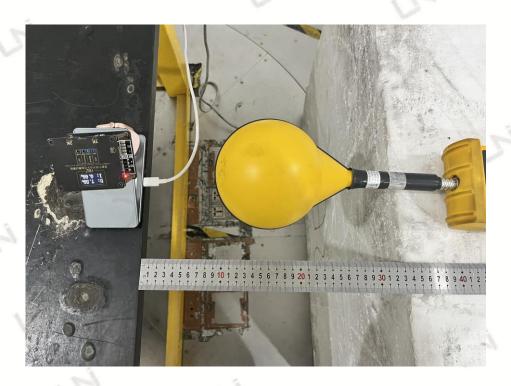
2.3 SET UP

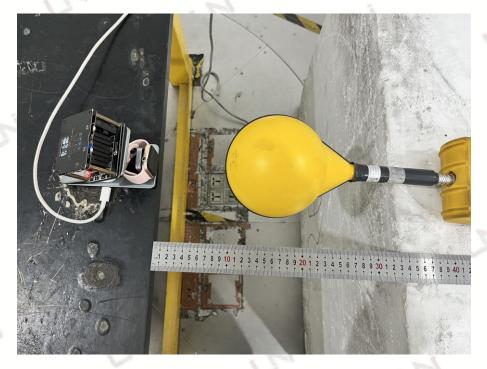


2.4 TEST PHOTO

















3. RESULT OF MAXIMUM PERMISSIBLE EXPOSURE

For Full load mode:

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uT	0.15	0.13	0.12	0.13	0.14	/	/
A/m	0.12	0.10	0.10	0.10	0.11	0.815	1.63

Note: Calculation: A/m=uT/1.25

For Half load mode:

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uТ	0.16	0.12	0.17	0.18	0.15	/	/
A/m	0.13	0.10	0.14	0.14	0.12	0.815	1.63

Note: Calculation: A/m=uT/1.25

For No load mode:

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

Filed Strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
uT	0.16	0.17	0.19	0.20	0.18	/	/
A/m	0.13	0.14	0.15	0.16	0.14	0.815	1.63

Note: Calculation: A/m=uT/1.25
