

MPE Test Report

FCC ID: 2BPD4-0002

Report No. : SSP25060223-2H

Applicant : Shenzhen GPO Tech CO., LTD

Product Name : Wireless charge of the mobile power supply

Model Name : PW05-10K

Test Standard : FCC CFR 47 PART 1, 1.1310

Date of Issue : 2025-07-05



Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen,
Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information

Applicant:	Shenzhen GPO Tech CO., LTD 708, Building 3, South Taiyun Chuanggu, Fenghuang Street, Tangwei Address of Applicant.....:	Community, Guangming District, Shenzhen, China
Manufacturer:	Shenzhen GPO Tech CO., LTD 708, Building 3, South Taiyun Chuanggu, Fenghuang Street, Tangwei Address of Manufacturer.....:	Community, Guangming District, Shenzhen, China
Product Name:	Wireless charge of the mobile power supply	
Brand Name:	-	
Main Model:	PW05-10K	
Series Models:	PW05-5K	
Test Standard:	FCC CFR 47 PART 1, 1.1310 KDB 680106 D01 Wireless Power Transfer v04	
Date of Test	2025-06-28 to 2025-07-04	
Test Result:	PASS	
Tested By	<u>Colin Chen</u> (Colin Chen)	
Reviewed By:	<u>Lorzix Luo</u> (Lorzix Luo)	
Authorized Signatory:	<u>Lahm Peng</u> (Lahm Peng)	
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Revision History

Revision	Issue Date	Description	Revised By
V1.0	2025-07-05	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	Wireless charge of the mobile power supply
Trade Name:	-
Main Model:	PW05-10K
Series Models:	PW05-5K
Rated Voltage:	Type-C Input: 5V=2.1A Type-C Output: 5V=2.4A Wireless Output: 5W Total Output: 12W Max
Battery:	DC 3.7V, 5000*2mAh, 18.5Wh
Test Sample No:	SSP25060223-1
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gathered from a production sample, provided by the manufacturer. Note 2: The appearance color, model name and capacity of the listed series of models are different from those of the main model, but the circuit and electronic structure are the same. They should be declared by the manufacturer.	

Wireless Specification	
Wireless Standard:	WPC (QI)
Operating Frequency:	Wireless charging Output (Phone):110.5kHz-205kHz,
Modulation:	ASK
Antenna Gain:	0dBi
Type of Antenna:	Coil Antenna
Type of Device:	☒ Portable Device ☐ Mobile Device

1.2 Test Setup Information

List of Test Modes			
Test Mode	Description		Remark
TM1	Wireless charging 5W(Phone)		-
-	-		-
Note: All modes of the main model and accessory models mentioned above have been tested. The report only shows the worst modes of the main model: TM1 data.			
List and Details of Auxiliary Cable			
Description	Length (cm)	Shielded/Unshielded	With/Without Ferrite
-	-	-	-
-	-	-	-
List and Details of Auxiliary Equipment			
Description	Manufacturer	Model	Serial Number
Phone	iPhone	iPhone 12pro	
-	-	-	-

1.3 Test Facilities

Laboratory Name:	Shenzhen CCUT Quality Technology Co., Ltd. 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6983.01
FCC Registration No:	583813
ISED Registration No.:	CN0164
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.	

1.4 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Electromagnetic radiation tester	WAVECONTROL	SMP3	23SL0158	2024-10-16	2025-10-15
Electromagnetic field probe	WAVECONTROL	WP400-3	24WP240067	2024-10-16	2025-10-16
Test Software	WAVECONTROL	SMP	N/A	N/A	N/A

Probe radius: 1.65CM

1.5 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
E-field	10Hz ~ 100kHz	± 2.6%
	100kHz ~ 400kHz	± 4.9%
H-field	10Hz ~ 3kHz	± 2.5%
	3kHz ~ 10kHz	± 2.6%
	10kHz ~ 100kHz	± 4.3%
	100kHz ~ 400kHz	± 5.0%

2. RF Exposure

2.1 Standard and Limit

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

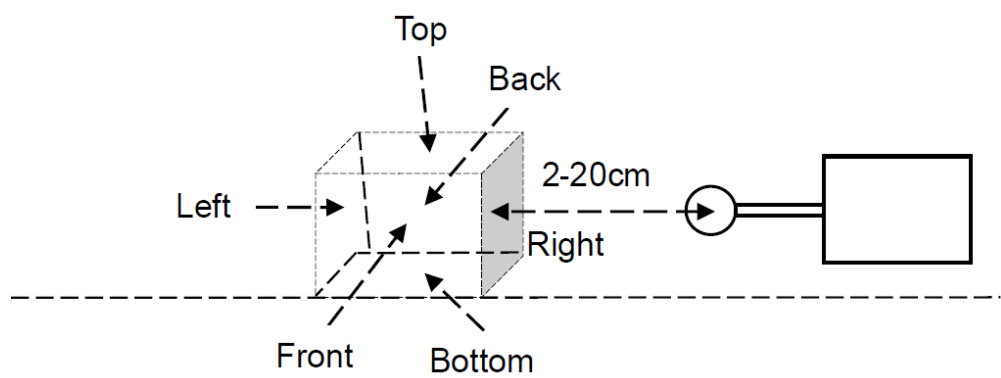
f = frequency in MHz

2.2 Test Procedures

The EUT was measured according to the KDB 680106 D01v04.

- 1) The RF exposure test was performed in an anechoic chamber.
- 2) The measurement probe was placed at test distance(2~20cm) which is between the edge of the wireless charger and the geometric center of probe for portable exposure, and the measurement probe was placed at test distance(20~24cm) which is between the edge of the wireless charger and the geometric center of probe for mobile exposure.
- 3) Choose the worst mode among battery with zero/partial/full charge, then perform measurement.
- 4) The highest emission level was recorded and all sides (A, B, C, D, E, F) were completed.
- 5) Calculate the final E/H-field strength.

2.3 Test Setup Block Diagram



Note: Front side = A, Right side = B, Back side = C, Left side = D, Top side = E, Bottom side = F.

2.4 Test Data and Results

For portable exposure conditions:

Operating modes with client device (1 %, 50%, 99% battery status of client device) have been tested, only show the data of worst case of battery status of client device.

H-field measurements taken every 2 cm (starting as close to 20 cm as possible) on each side of the device were also evaluated for portable exposure use condition.

Test Mode: TM1(the worst mode)

Transmitter Battery Level: 99%

Test Distance (cm)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position F(uT)
2	0.668	1.172	1.148	0.239	0.556	0.733
4	0.162	0.672	0.542	0.112	0.261	0.252
6	0.088	0.322	0.243	0.055	0.153	0.121
8	0.058	0.177	0.123	0.042	0.102	0.055
10	0.032	0.112	0.067	0.031	0.062	0.041
12	0.032	0.056	0.041	0.021	0.042	0.031
14	0.022	0.041	0.033	0.021	0.031	0.021
16	0.025	0.032	0.023	0.022	0.018	0.016
18	0.013	0.026	0.023	0.011	0.022	0.021
20	0.011	0.021	0.023	0.011	0.023	0.015

Test Distance (cm)	Test Position						Limits (A/m)
	A (A/m)	B (A/m)	C (A/m)	D (A/m)	E (A/m)	F (A/m)	
2	0.534	0.938	0.918	0.191	0.445	0.586	1.63
4	0.130	0.538	0.434	0.090	0.209	0.202	1.63
6	0.070	0.258	0.194	0.044	0.122	0.097	1.63
8	0.046	0.142	0.098	0.034	0.082	0.044	1.63
10	0.026	0.090	0.054	0.025	0.050	0.033	1.63
12	0.026	0.045	0.033	0.017	0.034	0.025	1.63
14	0.018	0.033	0.026	0.017	0.025	0.017	1.63
16	0.020	0.026	0.018	0.018	0.014	0.013	1.63
18	0.010	0.021	0.018	0.009	0.018	0.017	1.63
20	0.009	0.017	0.018	0.009	0.018	0.012	1.63

Note: H-field(A/m) = H-field(uT)/1.25.

Using Polynomial order 10, the value of 4 cm and 6 cm can be estimated, and the result of comparison meets the requirements (<30%), therefore, the calculation method is acceptable.

Distance: 4cm

Test Position	A	B	C	D	E	F
Valuation (A/m)	0.162	0.672	0.542	0.112	0.261	0.252
Measure Value (A/m)	0.130	0.538	0.434	0.090	0.209	0.202
Agreement Ratio (%)	-23%	-24%	-25%	-22%	-24%	-25%
Limit (%)	30%	30%	30%	30%	30%	30%
Result	Pass	Pass	Pass	Pass	Pass	Pass

Distance: 6cm

Test Position	A	B	C	D	E	F
Valuation (A/m)	0.088	0.322	0.243	0.055	0.153	0.121
Measure Value (A/m)	0.070	0.258	0.194	0.044	0.122	0.097
Agreement Ratio (%)	-29%	23%	26%	-23%	-25%	21%
Limit (%)	30%	30%	30%	30%	30%	30%
Result	Pass	Pass	Pass	Pass	Pass	Pass

0cm calculation formula:

$$y = a_{10}x^{10} + a_9x^9 + a_8x^8 + a_7x^7 + a_6x^6 + a_5x^5 + a_4x^4 + a_3x^3 + a_2x^2 + a_1x + a_0$$

Based on the above results, using Polynomial order 10, the value of 0 cm can be estimated as below.

Test Distance (cm)	Test Position						Limits (A/m)
	A (A/m)	B (A/m)	C (A/m)	D (A/m)	E (A/m)	F (A/m)	
0	1.16	1.20	1.34	0.26	0.70	1.33	1.63
Test Results: PASS							

Annex A. Test Photos

2cm

Test View 1



Test View 2



Test View 3



Test View 4



Test View 5**Test View 6**

******* END OF REPORT *******