



FCC TEST REPORT

FCC ID: 2BVNF-610

On Behalf of

EcoSmart Trade Limited

Power Bank

Model No.: 610

Prepared for : EcoSmart Trade Limited
Address : D705 9/F BLK 1 KOON WAH MIRROR FACTORY 6TH IND BLDG
TUEN MUN NT

Prepared By : Shenzhen PSI Testing Co., Ltd.
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road,
Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Report Number : psi2601035-C01-R02
Date of Receipt : January 8, 2026
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TEST REPORT DECLARATION

Applicant : EcoSmart Trade Limited

Address : D705 9/F BLK 1 KOON WAH MIRROR FACTORY 6TH IND BLDG TUEN MUN NT

Manufacturer : ZHUHAI XINYIFEI ELECTRONIC TECHNOLOGY COMPANY

Address : NO.29,4th Floor,NO.7-1 Workshop,Zhuhai Park,Zhuhai-macao cross-border industrial zone,Zhuhai City , Guangdong

EUT Description : Power Bank

(A) Model No. : 610

(B) Trademark : N/A

Measurement Standard Used:

FCC CFR 47 PART 1, FCC CFR 47 part1, 1.1307(b), 1.1310, 2.1093

KDB 680106 D01 Wireless Power Transfer v04

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness test. Also, this report shows that the EUT is technically compliant with the KDB 680106 D01 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....: Jensen Wang
Test Engineer 

Approved by (name + signature).....: Simple Guan
Project Manager 

Date of issue.....: January 14, 2026

Revision History

Revision	Issue Date	Revisions	Revised By
V0	January 14, 2026	Initial released Issue	Jensen Wang

1. Test Result Summary

Requirement	CFR 47 Section	Result
RF EXPOSURE	§1.1307(b)(1), §1.1310, §2.1093 & KDB680106 D01	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.
5. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.

2. EUT Description

2.1. Description of Device (EUT)

EUT Name : Power Bank
Model No. : 610
DIFF. : N/A
Type-C Input: DC 5V=3A / 9V=2A / 12V=1.5A (Type-C)
Wireless Output: 15W,10W, 7.5W, 5W
Power supply : Output1: DC 5V=3A / 9V=2.22A / 12V=1.67A (USB-C PD 20W)
Battery: DC 3.85V, Capacity 5000mAh

Radio Technology : Wireless power transmission systems
Operation frequency : WPT(Phone): 115-205KHz, 360KHz(MPP)
Modulation : MSK
Antenna Type : Coil Antenna

Software version : V1.0

Hardware version : V1.0

Note :
1. Antenna information is provided by applicant.
2. Testing lab is not responsible for the accuracy of the information.
3. When the product is only used for wireless magnetic charging of mobile phones, it is in a portable state.

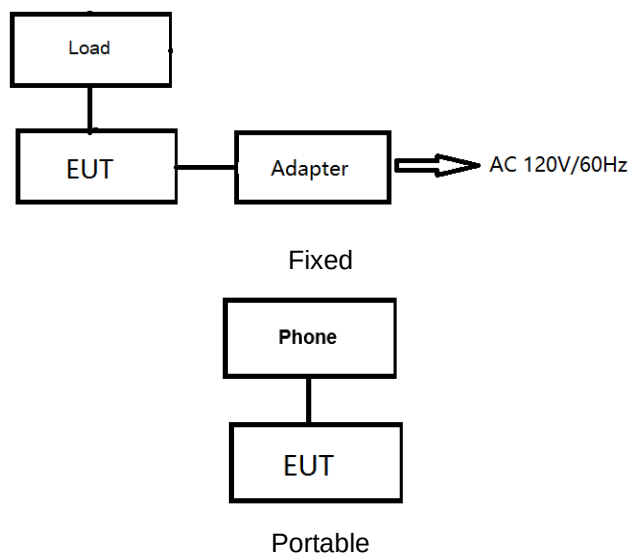
2.2. Accessories of Device (EUT)

Accessories	:	N/A
Manufacturer	:	N/A
Model	:	N/A
specifications	:	N/A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification
1	Load	N/A	N/A	N/A	N/A
2	USB cable	UGREEN	1M	N/A	N/A
3	mobile phones	XIAOMI	XIAOMI 15	N/A	N/A
4	Adapter	Baseus	CCXFK65CC	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A

2.4. Block Diagram of connection between EUT and simulators



2.5. Equipment Approval Considerations

The EUT does comply with KDB 680106 D01 as follow table.

Requirements of KDB 680106 D01	Yes/ No	Description
Mobile Device and Portable Device Configurations	Yes	Portable Device
Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz	Yes	The device operate in the frequency range 115KHz~205kHz and 360kHz

2.6. Description of Test Modes

Fixed type:

Mode	Test mode description
※1	Charging + Wireless Output(Phone): 5W
2	Wireless Output(Phone): 15W
3	Wireless Output(Phone): 10W
4	Wireless Output(Phone): 7.5W
5	Wireless Output(Phone): 5W

Note: The client operating modes have been tested and only display data for the worst-case scenario Mode 1 of the client battery status.

Portable type:

Mode	Test mode description
※1	Phone charging port (Battery Status:≤1%)
2	Phone charging port (Battery Status:50%)
3	Phone charging port (Battery Status:≥98%)
4	No Load

Note: The client operating modes (client battery status 1%, 50%, 99%) have been tested and only display data for the worst-case scenario Mode 1 of the client battery status.

2.7. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	26°C
Humidity range:	25-75%	54%
Pressure range:	86-106kPa	101kPa

2.8. Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission

Registration Number: 916281

2.9. Measurement Uncertainty

(95% confidence levels, $k=2$)

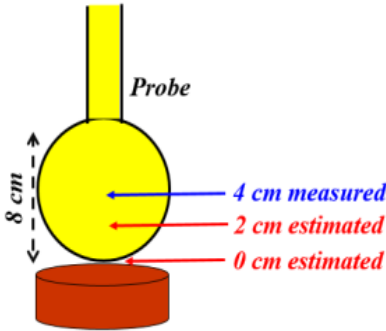
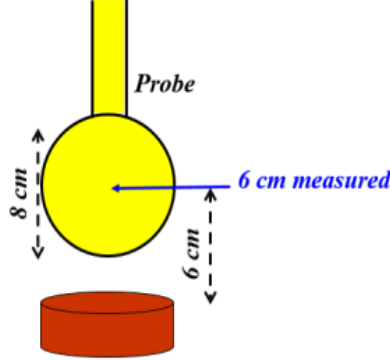
Item	Uncertainty
Uncertainty for H-Field	2.39dB
Uncertainty for E-Field	2.45dB
Uncertainty for conducted RF Power	0.65dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

3. Test Results and Measurement Data

3.1. RF EXPOSURE TEST

3.1.1. Test Specification

Test Requirement:	FCC Rules and Regulations KDB680106																																																																	
Test Method:	According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01: KDB 680106 D01 Wireless Power Transfer v04.																																																																	
Limits:	According to the item 3 of KDB 680106 D01v04: Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation. (1) Mobile Device and Portable Device Configurations (2) Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz (3) The aggregate H-field strengths anywhere at (0/2/4/6/8/10/12/14/16/18/20cm) surrounding the device six surfaces. 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) <table><thead><tr><th>Frequency range (MHz)</th><th>Electric field strength (V/m)</th><th>Magnetic field strength (A/m)</th><th>Power density (mW/cm²)</th><th>Averaging time (minutes)</th></tr></thead><tbody><tr><td colspan="5">(A) Limits for Occupational/Controlled Exposures</td></tr><tr><td>0.3-3.0</td><td>614</td><td>1.63</td><td>*(100)</td><td>6</td></tr><tr><td>3.0-30</td><td>1842/f</td><td>4.89/f</td><td>*(900/f²)</td><td>6</td></tr><tr><td>30-300</td><td>61.4</td><td>0.163</td><td>1.0</td><td>6</td></tr><tr><td>300-1500</td><td>/</td><td>/</td><td>f/300</td><td>6</td></tr><tr><td>1500-100,000</td><td>/</td><td>/</td><td>5</td><td>6</td></tr><tr><td colspan="5">(B) Limits for General Population/Uncontrolled Exposure</td></tr><tr><td>0.3-1.34</td><td>614</td><td>1.63</td><td>*(100)</td><td>30</td></tr><tr><td>1.34-30</td><td>824/f</td><td>2.19/f</td><td>*(180/f²)</td><td>30</td></tr><tr><td>30-300</td><td>27.5</td><td>0.073</td><td>0.2</td><td>30</td></tr><tr><td>300-1500</td><td>/</td><td>/</td><td>f/1500</td><td>30</td></tr><tr><td>1500-100,000</td><td>/</td><td>/</td><td>1.0</td><td>30</td></tr></tbody></table> 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).	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
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Test Setup:																																																																		

	Figure 1  Figure 2 
Test Mode:	Communication Mode (Mobile phone will be charged at zero charge, intermediate charge, and full charge.)
Test Procedure:	1) The RF exposure test was performed in anechoic chamber. 2) The measurement probe was placed at test distance (0/2/4/6/8/10/12/14/16/18/20cm) 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 point (A, B, C, D, E, F) were completed. 4) The EUT was measured according to the dictates of KDB 680106 D01v04. 5) Large size probes may prevent the measurement of E- and/or H-fields near the surface of the radiating structure (e.g., a WPT source coil), as in the example shown in Figure 2. These estimates shall include points spaced no more than 2 cm from each other. Thus, in the example of Figure 2, at least the estimates at 0 cm and 2 cm are required, while only one point would not be sufficient. In addition, the model needs to be validated through the probe measurements for the two closest points to the device surface, and with 2-cm increments, as indicated in Figure 2. In that example, the same model must also be applied to the 4 cm and 6 cm positions, and then compared with the measured data, for validation purposes. The validation is considered sufficient if a 30% agreement between the model and the (E- and/or H-field) probe measurements is demonstrated. If such a level of agreement cannot be shown, a more accurate model (and/or a smaller probe) shall be used.
Test Result:	PASS

3.1.2. Test Instruments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Exposure Level Tester	narda	ELT-400	O-0729	2025.05.22	1 Year
2	Magnetic field probe 100cm2	narda	ELT probe 100cm2	M-2116	2025.05.22	1 Year

Note: The probe radius is 8 cm

3.1.3. Test data

Portable type: Phone Magnet Wireless=15W

The probe radius is 8 cm.

E-Field Strength at 8/10/12/14/16/18/20cm from the edges surrounding the EUT

Charging Battery Level	Measured Distance (cm)	Measured E-Field Strength Values (V/m)						FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	8	16.493	18.474	18.996	23.201	25.223	24.027	614
50%	8	17.313	19.096	19.801	23.932	26.014	24.997	614
1%	8	18.159	19.546	20.339	24.553	27.324	26.229	614
99%	10	14.890	16.882	17.303	20.949	22.111	21.309	614
50%	10	16.037	17.329	17.679	21.379	23.452	22.118	614
1%	10	16.571	18.256	18.906	21.873	24.437	23.257	614
99%	12	13.562	15.465	15.604	18.330	19.709	18.759	614
50%	12	14.885	15.912	16.135	19.016	20.408	19.537	614
1%	12	15.177	16.058	16.767	19.295	21.781	20.655	614
99%	14	12.339	13.628	13.688	15.765	16.825	15.980	614
50%	14	13.094	14.023	14.249	16.715	18.023	16.852	614
1%	14	13.992	14.353	15.270	17.174	18.970	18.096	614
99%	16	10.926	11.548	11.938	13.195	13.984	13.331	614
50%	16	11.866	12.105	12.986	14.133	15.063	14.400	614
1%	16	12.578	12.601	13.498	14.359	16.311	15.549	614
99%	18	9.419	10.168	10.656	10.760	11.533	10.853	614
50%	18	10.363	10.628	11.267	11.714	12.348	11.754	614
1%	18	11.253	10.915	11.916	12.231	13.451	12.946	614
99%	20	8.141	8.421	8.670	8.283	8.772	8.404	614
50%	20	9.254	8.718	9.506	9.142	9.814	9.283	614
1%	20	9.776	9.424	9.881	9.580	10.827	10.287	614

Note: V/m= A/m *377

H-Field Strength at 8/10/12/14/16/18/20cm from the edges surrounding the EUT

Charging Battery Level	Measured Distance (cm)	Unit	Measured H-Field Strength Values (A/m)						FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	8	uT	0.004	0.071	0.085	0.159	0.224	0.143	--
99%	8	A/m	0.197	0.208	0.239	0.100	0.314	0.103	1.63
50%	8	uT	0.089	0.139	0.038	0.140	0.246	0.016	--
50%	8	A/m	0.106	0.059	0.226	0.104	0.147	0.162	1.63
1%	8	uT	0.067	0.083	0.003	0.002	0.030	0.286	--
1%	8	A/m	0.236	0.250	0.016	0.026	0.245	0.243	1.63
99%	10	uT	0.162	0.179	0.064	0.137	0.204	0.033	--
99%	10	A/m	0.233	0.024	0.177	0.036	0.286	0.293	1.63
50%	10	uT	0.121	0.260	0.236	0.151	0.186	0.111	--
50%	10	A/m	0.132	0.042	0.073	0.128	0.031	0.043	1.63
1%	10	uT	0.120	0.184	0.175	0.175	0.276	0.013	--
1%	10	A/m	0.024	0.199	0.193	0.014	0.187	0.129	1.63
99%	12	uT	0.119	0.298	0.130	0.143	0.147	0.008	--
99%	12	A/m	0.112	0.090	0.180	0.079	0.057	0.083	1.63
50%	12	uT	0.017	0.184	0.225	0.140	0.049	0.103	--
50%	12	A/m	0.279	0.093	0.072	0.164	0.083	0.090	1.63
1%	12	uT	0.011	0.174	0.168	0.121	0.186	0.122	--
1%	12	A/m	0.236	0.033	0.096	0.271	0.064	0.149	1.63
99%	14	uT	0.163	0.059	0.055	0.004	0.113	0.225	--
99%	14	A/m	0.056	0.095	0.100	0.100	0.263	0.050	1.63
50%	14	uT	0.098	0.193	0.034	0.292	0.135	0.296	--
50%	14	A/m	0.165	0.152	0.133	0.157	0.159	0.159	1.63
1%	14	uT	0.182	0.088	0.025	0.226	0.298	0.036	--
1%	14	A/m	0.090	0.100	0.163	0.289	0.062	0.161	1.63
99%	16	uT	0.255	0.057	0.090	0.023	0.177	0.181	--
99%	16	A/m	0.115	0.083	0.033	0.018	0.162	0.255	1.63
50%	16	uT	0.166	0.178	0.269	0.262	0.276	0.081	--
50%	16	A/m	0.057	0.119	0.158	0.060	0.208	0.200	1.63
1%	16	uT	0.088	0.137	0.190	0.102	0.009	0.121	--
1%	16	A/m	0.015	0.053	0.088	0.192	0.124	0.149	1.63
99%	18	uT	0.085	0.267	0.004	0.124	0.144	0.155	--
99%	18	A/m	0.189	0.047	0.114	0.119	0.197	0.155	1.63
50%	18	uT	0.269	0.160	0.276	0.163	0.051	0.156	--
50%	18	A/m	0.021	0.079	0.099	0.045	0.239	0.066	1.63
1%	18	uT	0.130	0.152	0.135	0.284	0.249	0.077	--
1%	18	A/m	0.028	0.083	0.147	0.149	0.089	0.264	1.63
99%	20	uT	0.232	0.172	0.113	0.261	0.216	0.263	--
99%	20	A/m	0.227	0.173	0.079	0.009	0.103	0.129	1.63
50%	20	uT	0.247	0.107	0.047	0.086	0.162	0.241	--
50%	20	A/m	0.110	0.100	0.018	0.069	0.156	0.070	1.63

1%	20	uT	0.004	0.234	0.045	0.068	0.019	0.180	--
1%	20	A/m	0.061	0.017	0.092	0.214	0.175	0.225	1.63

Note: $A/m = uT/1.25$

According to the formula:

The formula for the magnetic field strength at a distance r from the coil is

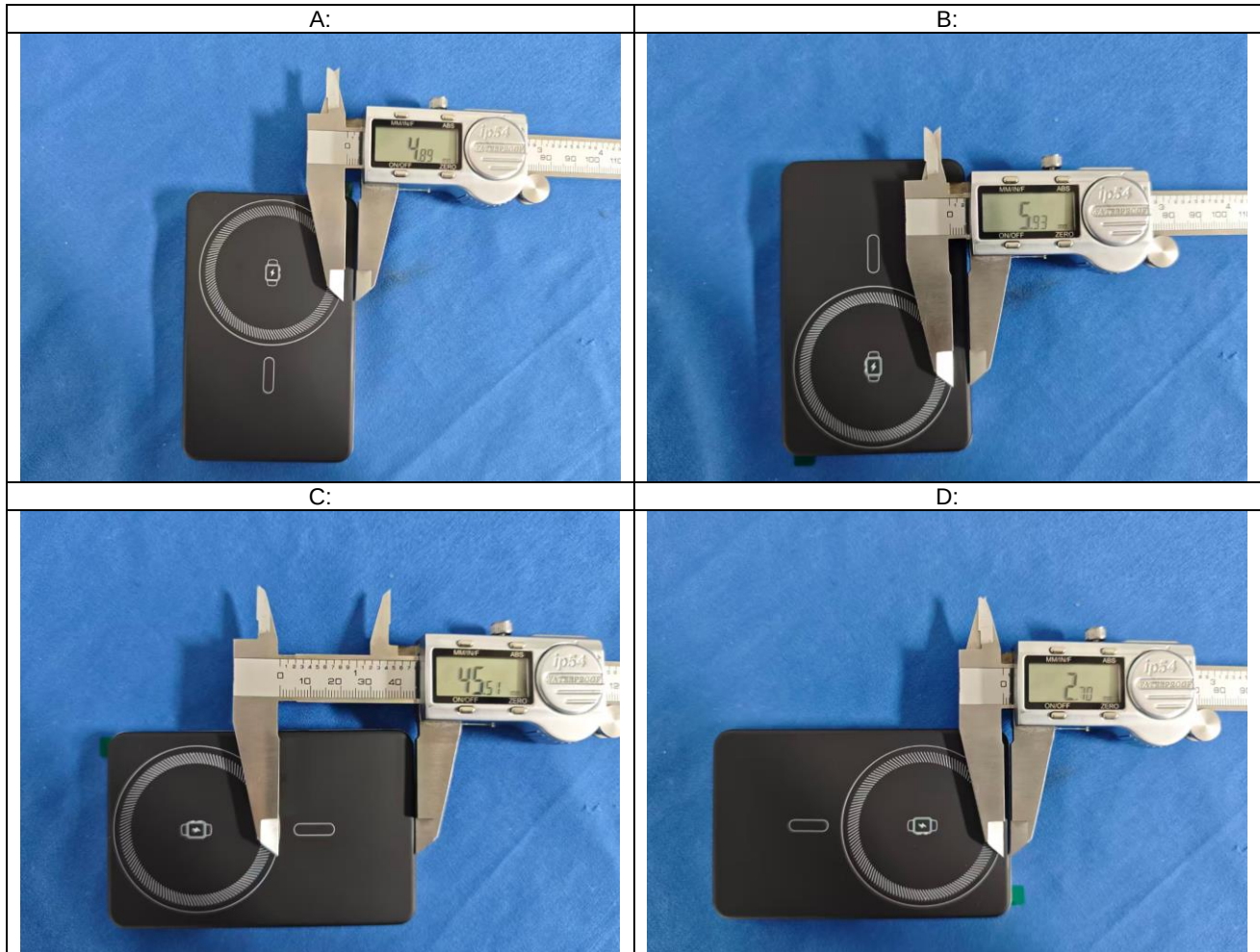
$$H = I/(2\pi r) \cdot \mu$$

H is A/m

I is the current intensity

μ is the permeability, and its value depends on the medium.

The other parameters are fixed, so H is inversely proportional to r .



ABCDEF direction The actual distance(r) to the antenna coil.

measured distance(cm)	Actual distance r to the antenna (cm)					
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F
20	24.820	24.860	21.050	21.163	20.798	23.014
18	22.750	22.713	19.074	19.343	18.934	20.744
16	20.788	20.946	16.892	17.010	17.048	19.041
14	19.009	18.964	15.128	15.300	14.634	16.951
12	16.702	17.006	13.059	12.982	12.991	14.958
10	14.939	14.770	11.143	11.020	10.596	12.925
8	12.980	12.697	9.333	9.125	8.591	10.931
6	10.757	10.821	7.226	7.018	6.863	9.070
4	8.830	8.809	5.134	4.993	4.717	6.756
2	6.723	6.802	2.927	3.142	2.944	4.899
0	4.934	4.869	1.041	0.986	0.662	2.695

Note: The phone is 8.35mm thick.

The result is calculated by the above formula:

H-Field Strength at 0/2/4/6cm from the edges surrounding the EUT

Charging Battery Level	Measured Distance (cm)	Unit	Measured H-Field Strength Values (A/m)						FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
1%	0	A/m	0.352	0.886	0.940	0.470	1.314	1.270	1.63
50%	0	A/m	0.228	0.750	0.751	0.317	1.063	1.079	1.63
99%	0	A/m	0.437	0.623	0.737	0.429	0.679	0.830	1.63
1%	2	A/m	0.328	0.356	0.446	0.094	0.254	0.327	1.63
50%	2	A/m	0.280	0.418	0.346	0.192	0.292	0.171	1.63
99%	2	A/m	0.169	0.262	0.321	0.287	0.350	0.323	1.63
1%	4	A/m	0.235	0.417	0.342	0.281	0.234	0.325	1.63
50%	4	A/m	0.145	0.300	0.274	0.185	0.282	0.118	1.63
99%	4	A/m	0.267	0.168	0.231	0.313	0.197	0.329	1.63
1%	6	A/m	0.242	0.342	0.284	0.154	0.183	0.238	1.63
50%	6	A/m	0.143	0.322	0.330	0.194	0.116	0.116	1.63
99%	6	A/m	0.212	0.146	0.116	0.082	0.342	0.142	1.63

Fixed type: Phone Wireless(Out) = 5W:

E-Field Strength at 20 cm for position A, B, C, D, E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (V/m)
0.115-0.205	7.33	7.09	6.77	6.39	7.01	614

H-Filed Strength at 20 cm for position A, B, C, D, E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (A/m)
0.115-0.205	0.50	0.48	0.52	0.77	0.51	1.63
uT	0.62	0.60	0.65	0.96	0.64	/

Note: uT to A/m: $A/m = uT/1.25$ **3.1.4. Conclusion****Portable type:**

A minimum safety distance of 0 cm to the antenna is required when the device is charging a smart phone for mobile exposure. The detected emissions are below the limitations according FCC KDB 680106.

The model was established with a 30% agreement, so it was considered to be approved.

Fixed type:

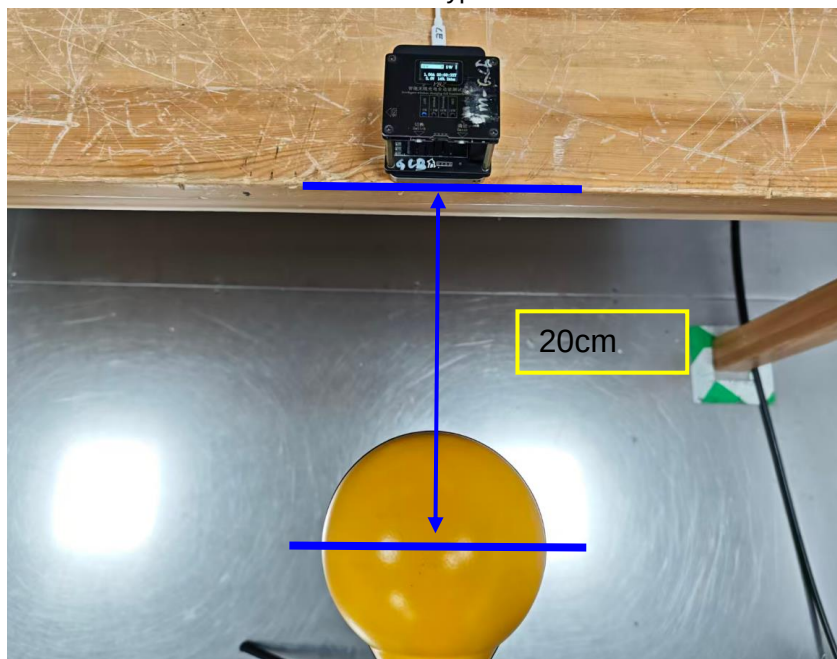
The detected emissions are below the limitations according FCC KDB 680106. The E-field and H-field strengths at 10 cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 30% of the MPE limit.

4. Photos of test setup

Portable type



Fixed type



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