

RF Exposure Report

For

Applicant name: Shenzhen Torras Technology Co., Ltd.
Address: RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China
EUT name: Power Bank
Brand name: TORRAS
Model number: PB26
Series model number: N/A
FCC ID: 2AN4Y-PB26

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Report number: BTF251024R00602
Test standards: 47 CFR Part 1 Subpart I Section 1.1310
Test conclusion: Pass
Date of sample receipt: 2025-10-24
Test date: 2025-10-24 to 2025-11-14
Date of issue: 2025-11-17
Test by: Sean He

Prepared by: Chris Liu
Chris Liu / Project engineer

Approved by:



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2025-11-17	Original
Note:	Once the revision has been made, then previous versions reports are invalid.	

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1. Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

2. Product Information

2.1 Application Information

Company Name:	Shenzhen Torras Technology Co., Ltd.
Address:	RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China

2.2 Manufacturer Information

Company Name:	Shenzhen Torras Technology Co., Ltd.
Address:	RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China

2.3 Factory Information

Company Name:	Shenzhen Torras Technology Co., Ltd.
Address:	RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China

2.4 General Description of Equipment under Test (EUT)

EUT name:	Power Bank
Under test model name:	PB26
Series model name:	N/A
Description of model name differentiation:	N/A
Ratings:	USB-C Input: 5.0V===3.0A, 9.0V===3.0A, 12.0V===2.5A, 15.0V===2.0A USB-C Output: 5.0V===2.0A, 9.0V===3.0A, 10.0V===2.25A, 12.0V===3.0A, 15.0V===3.0A Output Power: 45W MAX Wireless Charging Output: 25W MAX USB-C+Wireless Charging Output: 15W MAX Lithium Battery Energy: 5000mAh/7.82V/39.1Wh 2 Cells In Series: Rated Capacity: 6000mAh(5.0V===2.0A)
Operation frequency:	120-150kHz, 350-370kHz
Modulation technology:	ASK
Antenna type:	Coil Antenna

3. Test Requirement

KDB 680106 D01 RF Exposure Wireless Charging App v03

According to the item 5.2 of KDB 680106 D01v03:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- Power transfer frequency is less than 1 MHz.
Yes, the device operate in the frequency range from 127.85-360.02kHz
- Client device is placed directly in contact with the transmitter.
Yes, client device is placed directly in contact with the transmitter.
- Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
Yes, the EUT is a Wireless Charging mobile.
- 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, the EUT field strength levels are 50% X MPE limit.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

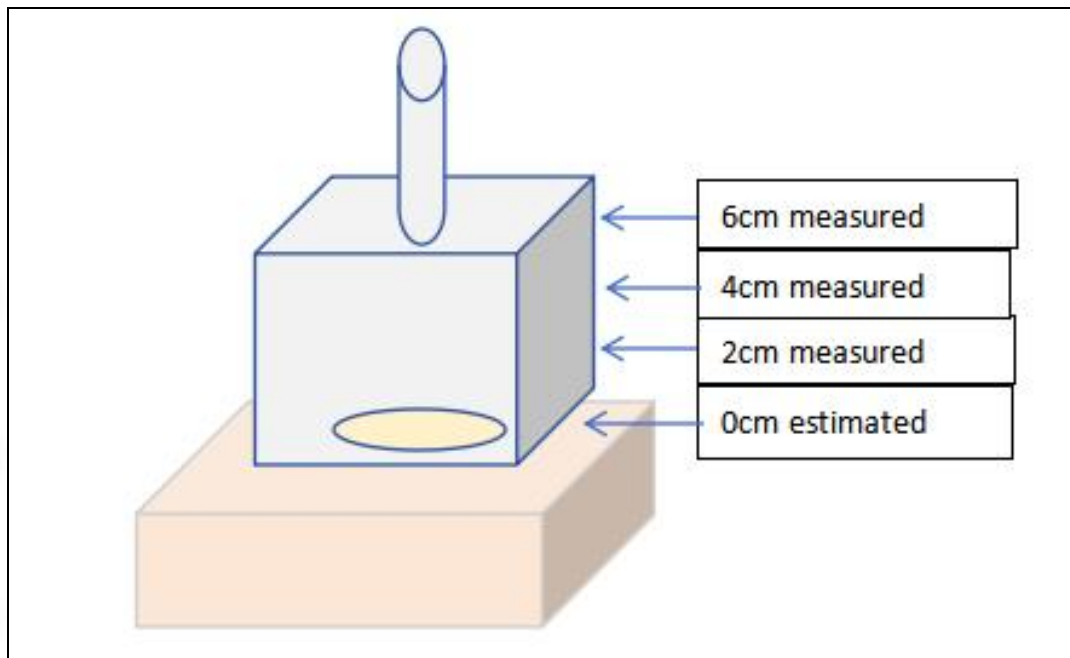
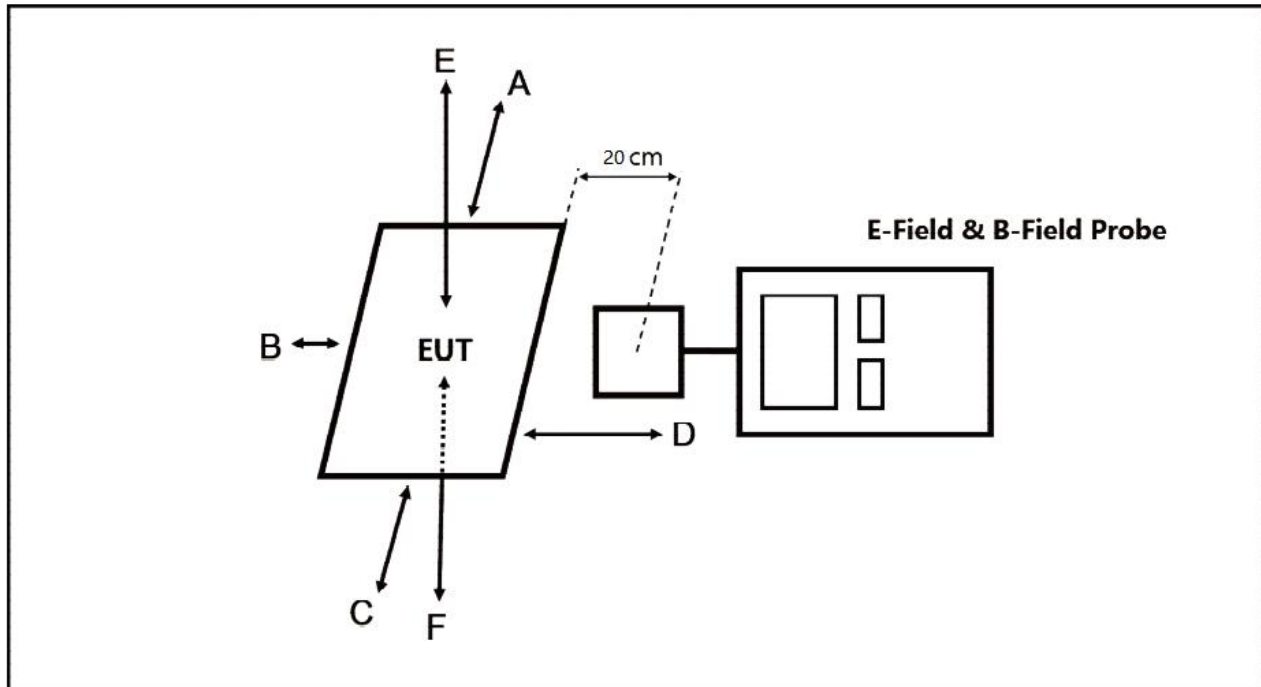
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Test Equipment List

Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX11001	2025/11/15	2026/11/14

4. Test Setup



Note1: The sensitive elements are located approximately 8mm below the external surface

Note2: Measurements should be made from all sides and the top of the primary/client pair, with the 0/2/4/6/8/10/12/14/16/18/20cm measured from the center of the probe(s) to the edge of the device.

- 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 points (A, B, C, D, E, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

5. Assessment Result

Note: The sensitive elements are located approximately 8mm below the external surface

5.1 E-Field Strength Test Data

E-Field Strength at 2/4/6/8/10/12/14/16/18/20cm 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%	2	4.4341	4.8653	4.4286	4.5586	7.4649	7.3267	614
50%	2	4.3230	5.1227	4.7542	4.7637	7.8569	7.4975	614
1%	2	4.6338	5.1251	4.6251	4.4579	7.6871	7.6230	614
99%	4	4.0236	4.5465	4.1353	4.2209	7.2850	6.9460	614
50%	4	3.9125	4.7458	4.3103	4.2500	7.4947	7.1182	614
1%	4	4.2244	4.8796	4.3951	4.2535	7.5899	7.2892	614
99%	6	3.6627	4.4071	3.9519	3.9492	7.1468	6.7798	614
50%	6	3.7862	4.5454	4.1051	3.9961	7.3898	6.9506	614
1%	6	4.0113	4.7055	4.2153	4.1150	7.5211	7.1779	614
99%	8	3.5167	4.3564	3.8296	3.8288	7.0621	6.6665	614
50%	8	3.7040	4.4686	3.9787	3.9421	7.2867	6.8550	614
1%	8	3.8937	4.6196	4.0939	4.0552	7.5137	7.0817	614
99%	10	2.7626	3.7157	3.3009	3.2632	6.0802	5.7240	614
50%	10	2.9135	3.8667	3.4141	3.3759	6.3079	5.9112	614
1%	10	3.0646	3.9796	3.5279	3.4899	6.4970	6.1010	614
99%	12	2.0842	3.2252	2.8485	2.8111	5.2513	4.9330	614
50%	12	2.1964	3.3009	2.9246	2.8873	5.4400	5.0829	614
1%	12	2.3475	3.4148	3.0379	2.9995	5.5912	5.2346	614
99%	14	1.4816	2.7725	2.4343	2.4332	4.5361	4.2166	614
50%	14	1.5935	2.8486	2.5081	2.5094	4.6865	4.3680	614

1%	14	1.7078	2.9245	2.5846	2.5849	4.8372	4.5183	614
99%	16	0.9914	2.3589	2.0949	2.0944	3.9337	3.6494	614
50%	16	1.0649	2.4343	2.1709	2.1325	4.0449	3.7629	614
1%	16	1.1787	2.5095	2.2449	2.2077	4.1601	3.8764	614
99%	18	0.5382	2.0201	1.7931	1.7929	3.4056	3.1221	614
50%	18	0.6506	2.0951	1.8696	1.8303	3.4809	3.2358	614
1%	18	0.7256	2.1707	1.9065	1.9052	3.5927	3.3115	614
99%	20	0.1614	1.7559	1.5293	1.5287	2.9521	2.6700	614
50%	20	0.2373	1.7920	1.6038	1.5675	3.0275	2.7833	614
1%	20	0.3116	1.8696	1.6433	1.5940	3.1044	2.8586	614

Note: $V/m = A/m \times 377$

5.2 H-Field Strength Test Date:

H-Field Strength at 2/4/6 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%	2	uT	0.0395	0.0431	0.0356	0.0286	0.0628	0.0695	--
99%	2	A/m	0.0316	0.0345	0.0285	0.0229	0.0503	0.0556	1.63
50%	2	uT	0.0471	0.0397	0.0336	0.0312	0.0633	0.0728	--
50%	2	A/m	0.0376	0.0317	0.0268	0.0249	0.0506	0.0582	1.63
1%	2	uT	0.0423	0.0421	0.0335	0.0364	0.0583	0.0694	--
1%	2	A/m	0.0339	0.0337	0.0268	0.0291	0.0467	0.0555	1.63
99%	4	uT	0.0311	0.0274	0.0219	0.0249	0.0375	0.0423	--
99%	4	A/m	0.0249	0.0220	0.0175	0.0199	0.0300	0.0338	1.63
50%	4	uT	0.0346	0.0259	0.0234	0.0250	0.0371	0.0472	--
50%	4	A/m	0.0277	0.0207	0.0187	0.0200	0.0297	0.0378	1.63
1%	4	uT	0.0350	0.0306	0.0269	0.0243	0.0356	0.0456	--
1%	4	A/m	0.0280	0.0245	0.0215	0.0194	0.0284	0.0365	1.63
99%	6	uT	0.0245	0.0223	0.0175	0.0179	0.0347	0.0437	--
99%	6	A/m	0.0196	0.0178	0.0140	0.0143	0.0278	0.0350	1.63
50%	6	uT	0.0250	0.0213	0.0193	0.0178	0.0331	0.0460	--
50%	6	A/m	0.0200	0.0171	0.0154	0.0142	0.0264	0.0368	1.63
1%	6	uT	0.0247	0.0236	0.0197	0.0229	0.0324	0.0427	--
1%	6	A/m	0.0198	0.0189	0.0158	0.0183	0.0259	0.0342	1.63
99%	8	uT	0.0223	0.0176	0.0143	0.0159	0.0268	0.0267	--
99%	8	A/m	0.0178	0.0140	0.0115	0.0127	0.0214	0.0213	1.63
50%	8	uT	0.0247	0.0165	0.0148	0.0158	0.0280	0.0264	--
50%	8	A/m	0.0198	0.0132	0.0118	0.0127	0.0224	0.0211	1.63
1%	8	uT	0.0240	0.0195	0.0146	0.0167	0.0281	0.0280	--
1%	8	A/m	0.0192	0.0156	0.0117	0.0134	0.0225	0.0224	1.63
99%	10	uT	0.0201	0.0134	0.0126	0.0133	0.0231	0.0227	--
99%	10	A/m	0.0160	0.0108	0.0101	0.0106	0.0185	0.0182	1.63
50%	10	uT	0.0202	0.0154	0.0130	0.0142	0.0248	0.0236	--
50%	10	A/m	0.0161	0.0123	0.0104	0.0114	0.0198	0.0189	1.63
1%	10	uT	0.0211	0.0158	0.0132	0.0153	0.0253	0.0237	--
1%	10	A/m	0.0168	0.0126	0.0105	0.0122	0.0202	0.0190	1.63
99%	12	uT	0.0174	0.0121	0.0113	0.0112	0.0213	0.0193	--

99%	12	A/m	0.0139	0.0097	0.0090	0.0090	0.0170	0.0154	1.63
50%	12	uT	0.0173	0.0131	0.0122	0.0111	0.0204	0.0191	--
50%	12	A/m	0.0138	0.0105	0.0097	0.0089	0.0164	0.0153	1.63
1%	12	uT	0.0177	0.0145	0.0120	0.0114	0.0214	0.0205	--
1%	12	A/m	0.0141	0.0116	0.0096	0.0091	0.0171	0.0164	1.63
99%	14	uT	0.0151	0.0114	0.0104	0.0096	0.0187	0.0185	--
99%	14	A/m	0.0121	0.0092	0.0083	0.0077	0.0150	0.0148	1.63
50%	14	uT	0.0166	0.0111	0.0103	0.0104	0.0184	0.0187	--
50%	14	A/m	0.0132	0.0088	0.0082	0.0083	0.0147	0.0150	1.63
1%	14	uT	0.0156	0.0125	0.0105	0.0114	0.0186	0.0189	--
1%	14	A/m	0.0124	0.0100	0.0084	0.0092	0.0148	0.0151	1.63
99%	16	uT	0.0127	0.0089	0.0082	0.0095	0.0151	0.0155	--
99%	16	A/m	0.0102	0.0071	0.0066	0.0076	0.0121	0.0124	1.63
50%	16	uT	0.0133	0.0107	0.0089	0.0102	0.0156	0.0148	--
50%	16	A/m	0.0106	0.0086	0.0071	0.0082	0.0125	0.0119	1.63
1%	16	uT	0.0139	0.0094	0.0099	0.0104	0.0172	0.0160	--
1%	16	A/m	0.0111	0.0075	0.0080	0.0084	0.0138	0.0128	1.63
99%	18	uT	0.0127	0.0098	0.0075	0.0088	0.0138	0.0135	--
99%	18	A/m	0.0102	0.0078	0.0060	0.0070	0.0110	0.0108	1.63
50%	18	uT	0.0119	0.0089	0.0074	0.0085	0.0129	0.0135	--
50%	18	A/m	0.0095	0.0072	0.0059	0.0068	0.0103	0.0108	1.63
1%	18	uT	0.0122	0.0095	0.0086	0.0084	0.0154	0.0147	--
1%	18	A/m	0.0098	0.0076	0.0069	0.0067	0.0124	0.0118	1.63
99%	20	uT	0.0113	0.0071	0.0059	0.0083	0.0108	0.0106	--
99%	20	A/m	0.0091	0.0056	0.0047	0.0066	0.0087	0.0085	1.63
50%	20	uT	0.0110	0.0091	0.0080	0.0072	0.0124	0.0110	--
50%	20	A/m	0.0088	0.0073	0.0064	0.0057	0.0100	0.0088	1.63
1%	20	uT	0.0102	0.0088	0.0066	0.0076	0.0123	0.0108	--
1%	20	A/m	0.0082	0.0071	0.0052	0.0061	0.0098	0.0086	1.63

Note: A/m=uT/1.25

5.3 Estimated Model

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.

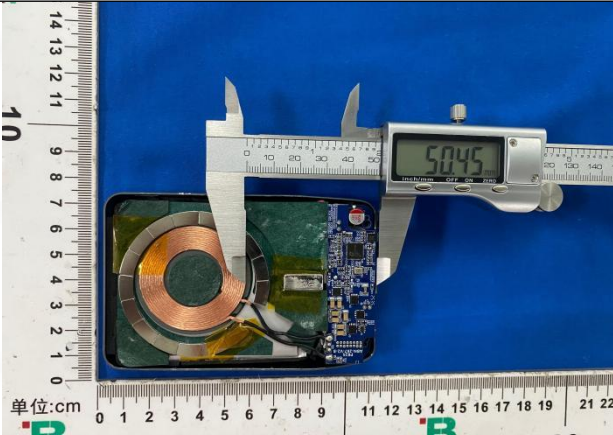
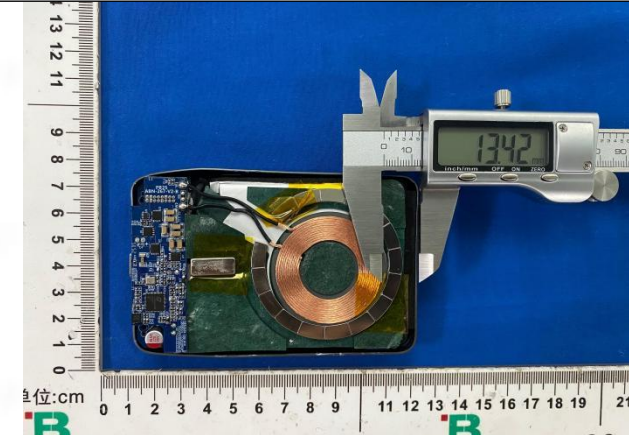
Therefore, From the measurement H6 we can estimate the values of H4,H2,H0:

$$H4=H6*r6/r4$$

$$H2=H6*r6/r2$$

$$H0=H6*r6/r0$$

The values of "r" are shown in the following table:

A:50.45mm 	B:13.42mm 
C:15.62mm 	D:12.40mm 
E:16.21mm 	F:2.82mm 

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
0	5.05	1.34	1.56	1.24	1.62	0.28
2	7.05	3.34	3.56	3.24	3.62	2.28
4	9.05	5.34	5.56	5.24	5.62	4.28
6	11.05	7.34	7.56	7.24	7.62	6.28
8	13.05	9.34	9.56	9.24	9.62	8.28
10	15.05	11.34	11.56	11.24	11.62	10.28
12	17.05	13.34	13.56	13.24	13.62	12.28
14	19.05	15.34	15.56	15.24	15.62	14.28
16	21.05	17.34	17.56	17.24	17.62	16.28
18	23.05	19.34	19.56	19.24	19.62	18.28
20	25.05	21.34	21.56	21.24	21.62	20.28

Note: The phone is 16.21mm thick.

The result is calculated by the above formula:

H-Field Strength at 0/2/4cm 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%	0	A/m	0.0322	0.0347	0.0282	0.0228	0.0495	0.0554	1.63
50%	0	A/m	0.0374	0.0324	0.0264	0.0248	0.0499	0.0579	1.63
1%	0	A/m	0.0344	0.0337	0.0275	0.0292	0.0478	0.0550	1.63
99%	2	A/m	0.0248	0.0207	0.0181	0.0201	0.0295	0.0339	1.63
50%	2	A/m	0.0283	0.0205	0.0189	0.0204	0.0296	0.0372	1.63
1%	2	A/m	0.0285	0.0241	0.0218	0.0201	0.0279	0.0356	1.63
99%	4	A/m	0.0322	0.0347	0.0282	0.0228	0.0495	0.0554	1.63
50%	4	A/m	0.0374	0.0324	0.0264	0.0248	0.0499	0.0579	1.63
1%	4	A/m	0.0344	0.0337	0.0275	0.0292	0.0478	0.0550	1.63

5.4 Comparison of evaluation data and test data

We compare the test value of 4cm/2cm with the estimated value:

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%	2	A/m	0.0322	0.0347	0.0282	0.0228	0.0495	0.0554	1.63
50%	2	A/m	0.0374	0.0324	0.0264	0.0248	0.0499	0.0579	1.63
1%	2	A/m	0.0344	0.0337	0.0275	0.0292	0.0478	0.0550	1.63
99%	4	A/m	0.0248	0.0207	0.0181	0.0201	0.0295	0.0339	1.63
50%	4	A/m	0.0283	0.0205	0.0189	0.0204	0.0296	0.0372	1.63
1%	4	A/m	0.0285	0.0241	0.0218	0.0201	0.0279	0.0356	1.63

Charging Battery Level	Measured Distance (cm)	Unit	Estimated 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%	2	A/m	0.0308	0.0283	0.0233	0.0209	0.0430	0.0534	1.63
50%	2	A/m	0.0313	0.0268	0.0231	0.0228	0.0422	0.0565	1.63
1%	2	A/m	0.0298	0.0284	0.0264	0.0268	0.0398	0.0543	1.63
99%	4	A/m	0.0240	0.0220	0.0182	0.0163	0.0335	0.0416	1.63
50%	4	A/m	0.0244	0.0209	0.0180	0.0178	0.0329	0.0440	1.63
1%	4	A/m	0.0232	0.0222	0.0206	0.0209	0.0310	0.0423	1.63

The corresponding deviation value is calculated

Charging Battery Level	Measured Distance (cm)	Unit	Deviation value						Limits (A/m)	Result
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
99%	2	A/m	4.72%	22.68%	21.07%	9.16%	15.04%	3.77%	30%	Pass
50%	2	A/m	19.31%	20.79%	14.28%	8.48%	18.18%	2.33%	30%	Pass
1%	2	A/m	15.47%	18.40%	4.12%	8.79%	20.23%	1.25%	30%	Pass

99%	4	A/m	3.59%	-6.02%	-0.46%	23.47%	-11.94%	-18.55%	30%	Pass
50%	4	A/m	15.83%	-1.79%	4.73%	14.68%	-9.82%	-15.61%	30%	Pass
1%	4	A/m	22.96%	8.80%	6.16%	-3.93%	-10.08%	-15.75%	30%	Pass

Note: Deviation value=(Hest-Hmea)/Hmea

6. Conclusion

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. The estimated test distances of 0cm are reliable

7. Test Set-up Photo



Side(C)



Side(A)



Side(B)



Side(D)



Top(E)



Bottom(F)



Test Report Number: BTF251024R00602



BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

www.btf-lab.com

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