



FCC Test Report

**Test Report
On Behalf of
SHENZHEN KINGYARD TECHNOLOGY CO.,LTD
For
wireless charger**

Model No.: T05, T06, T12, T10, T01, T21, T25, T29, T30, T15

FCC ID: 2BC7M-T05

Prepared For : SHENZHEN KINGYARD TECHNOLOGY CO.,LTD
No.2, Baimenqian Industrial Zone, No.215 Busa Road, Nanlong Community,
Nanwan Street, Longgang District, Shenzhen City, China

Prepared By : Shenzhen HUAK Testing Technology Co., Ltd.
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Oct. 28, 2023 ~ Oct. 12, 2023

Date of Report: Oct. 12, 2023

Report Number: HK2309284513-1E

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Test Result Certification

Applicant's Name : SHENZHEN KINGYARD TECHNOLOGY CO.,LTD
Address : No.2, Baimenqian Industrial Zone, No.215 Busa Road, Nanlong
Community, Nanwan Street, Longgang District, Shenzhen City, China

Manufacture's Name : SHENZHEN KINGYARD TECHNOLOGY CO.,LTD
Address : No.2, Baimenqian Industrial Zone, No.215 Busa Road, Nanlong
Community, Nanwan Street, Longgang District, Shenzhen City, China

Product Description

Trade Mark : N/A

Product Name : wireless charger

Model and/or Type Reference : T05, T06, T12, T10, T01, T21, T25, T29, T30, T15

Standards : FCC CFR 47 PART 18

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Date of Test :

Date (s) of Performance of Tests : Oct. 28, 2023 ~ Oct. 12, 2023

Date of Issue : Oct. 12, 2023

Test Result : Pass

Testing Engineer : 

(Gary Qian)

Technical Manager : 

(Eden Hu)

Authorized Signatory : 

(Jason Zhou)

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Oct. 12, 2023	Jason Zhou

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1. Test Summary

1.1. Test Procedures and Results

Description of Test	Section Number	Result
Conducted Emissions Test	18.307	COMPLIANT
Radiated Emission Test	18.305	COMPLIANT

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.

1.2. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.3. Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty	= 2.71dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	= 3.90dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	= 3.90dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	= 4.28dB, k=2



2. General Information

2.1. General Description of EUT

Equipment:	wireless charger
Model Name:	T05
Series Models:	T06, T12, T10, T01, T21, T25, T29, T30, T15
Model Difference:	All model's the function, software and electric circuit are the same, only with model named different. Test sample model: T05.
Trade Mark:	N/A
FCC ID:	2BC7M-T05
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Operation Frequency:	112KHz~205KHz
Test Frequency:	Mobile Phone:142KHz Watch: 127KHz AirPods: 127KHz
Modulation Type:	ASK
Power Source:	Input: 9VDC, 50/60Hz AirPods wireless Output: 5W Watch wireless Output: 2.5W Mobile phone wireless Output: 7.5W/10W/15W
Power Rating:	Input: 9VDC, 50/60Hz AirPods wireless Output: 5W Watch wireless Output: 2.5W Mobile phone wireless Output: 7.5W/10W/15W
Note: The transfer system includes two coils, 2 coils can work individually or can work at the same time. All the situation (full load, half load and empty load) has been tested, only the worst situation (ANT1+ANT2 full load 15W) was recorded in the report.	

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2.2. Carrier Frequency of Channels

Operation Frequency each of channel	
Channel	Frequency
01	142KHz
02	127KHz
03	127KHz

2.3. Operation of EUT during Testing

Operating Mode
The mode is used: Transmitting mode

2.4. Test Mode

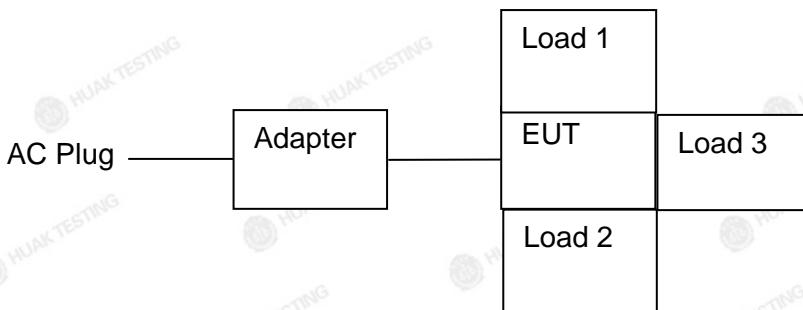
EUT Mode		Description
Working	ANT 1	Full Load
		Half Load
		No Load
	ANT 2	Full Load
		Half Load
		No Load
	ANT 3	Full Load
		Half Load
		No Load
	ANT 1+ ANT 2	Full Load
		Half Load
		No Load
	ANT 1+ ANT 3	Full Load
		Half Load
		No Load
	ANT 2+ ANT 3	Full Load
		Half Load
		No Load
	ANT 1+ ANT 2+ ANT 3	Full Load
		Half Load
		No Load

Note: All modes have been tested, and the report only reflects the worst case data.



2.5. Description of Test Setup

Operation of EUT during Testing:



The sample was placed (0.8m (30MHz~1GHz), 0.8m (9KHz~30MHz)) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



2.6. Description of Support Units

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	Trade Mark	Model/Type No.	Specification	Remark
1	wireless charger	N/A	T05	N/A	EUT
2	USB Cable	N/A	N/A	1.0m	Accessory
3	Adapter	N/A	CD289	Input: AC100-240V, 50/60Hz, 2A Max USB-C1 Output: DC5V/3A, 9V3A, 12V/3A, 15V/3A, 20V/5A, 28V/5A 140W MAX USB-C2 Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A 100W MAX USB-A Output: DC5V/4.5A, 4.5V/5A, 5V/3A, 9V/2A, 12V/1.5A 22.5W MAX Total Output: 140W Max	Peripheral
5	Load 1	YBZ	N/A	15W Max	Peripheral
6	Load 2	YBZ	N/A	5W	Peripheral
	Load 3	YBZ	N/A	2.5W	Peripheral

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



2.7. Measurement Instruments List

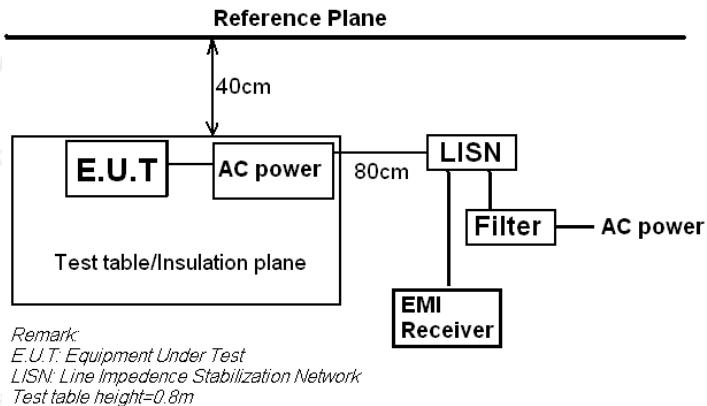
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 17, 2023	1 Year
2.	Receiver	R&S	ESR-7	HKE-005	Feb. 17, 2023	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 17, 2023	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 17, 2023	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 17, 2023	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 17, 2023	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 17, 2023	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 17, 2023	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 17, 2023	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 17, 2023	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	N/A	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 17, 2023	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 17, 2023	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 17, 2023	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year
19.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 17, 2023	1 Year

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3. Conducted Emission Test

3.1. Block Diagram of Test Setup



3.2. Conducted Power Line Emission Limit

According to FCC Part 18.307(b)

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §18.307 Line Conducted Emission Limit is same as above table.

3.3. Test Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

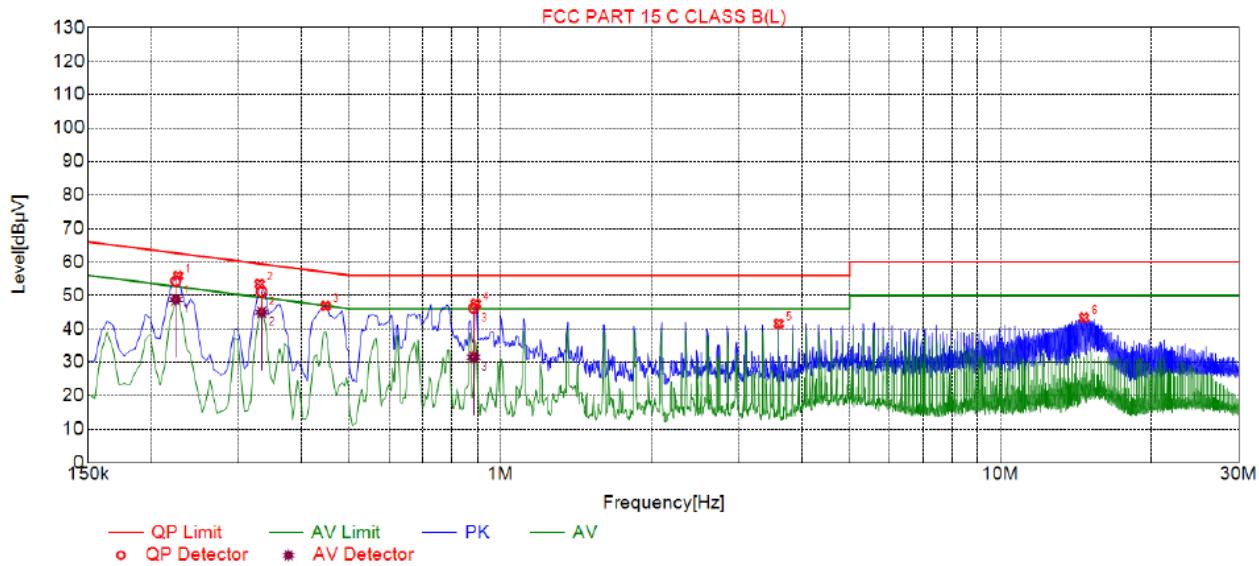


3.4. Test Result

PASS

All the test modes completed for test. Only the worst result (ANT 1+ ANT 2+ ANT 3) was reported as below:

Test Specification: Line



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2265	55.86	20.03	62.58	6.72	35.83	PK	L
2	0.3300	53.41	20.04	59.45	6.04	33.37	PK	L
3	0.4470	46.83	20.04	56.93	10.10	26.79	PK	L
4	0.8925	47.47	20.06	56.00	8.53	27.41	PK	L
5	3.6015	41.55	20.25	56.00	14.45	21.30	PK	L
6	14.6985	43.31	19.95	60.00	16.69	23.36	PK	L

Final Data List

NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	QP Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	AV Reading [dBμV]	Type
1	0.2242	20.04	54.32	62.66	8.34	34.28	48.72	52.66	3.94	28.68	L
2	0.3329	20.04	51.10	59.38	8.28	31.06	44.99	49.38	4.39	24.95	L
3	0.8836	20.06	46.19	56.00	9.81	26.13	31.55	46.00	14.45	11.49	L

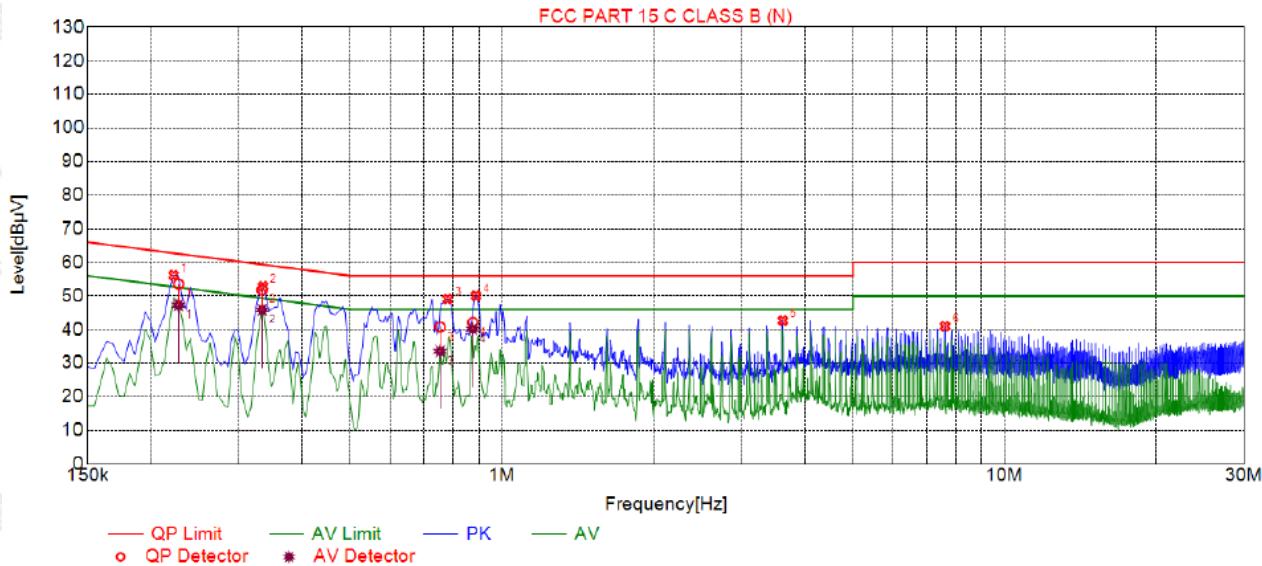
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2220	56.16	20.04	62.74	6.58	36.12	PK	N
2	0.3345	52.83	20.04	59.34	6.51	32.79	PK	N
3	0.7800	49.10	20.05	56.00	6.90	29.05	PK	N
4	0.8880	50.06	20.06	56.00	5.94	30.00	PK	N
5	3.6240	42.68	20.25	56.00	13.32	22.43	PK	N
6	7.6200	40.99	20.17	60.00	19.01	20.82	PK	N

Final Data List

NO.	Freq. [MHz]	Correction factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	QP Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	AV Reading [dBμV]	Type
1	0.2271	20.03	53.54	62.56	9.02	33.51	47.28	52.56	5.28	27.25	N
2	0.3332	20.04	51.81	59.37	7.56	31.77	45.85	49.37	3.52	25.81	N
3	0.7532	20.06	40.76	56.00	15.24	20.70	33.56	46.00	12.44	13.50	N
4	0.8750	20.06	42.13	56.00	13.87	22.07	40.14	46.00	5.86	20.08	N

Remark: Margin = Limit - Level

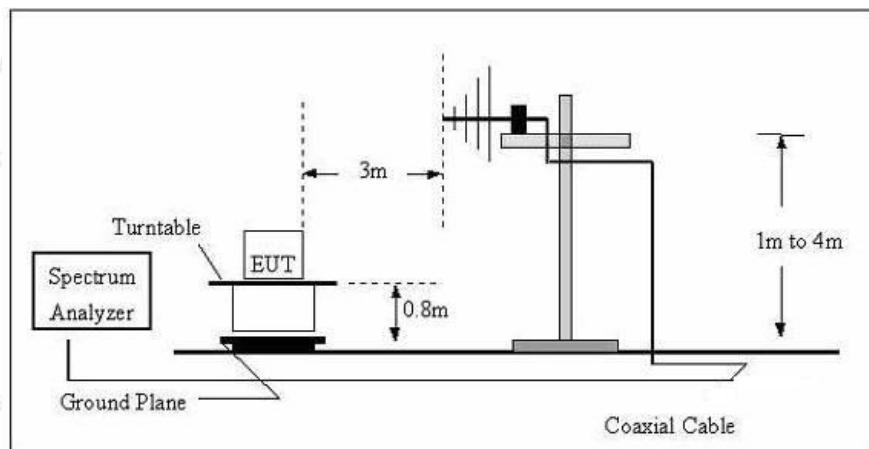
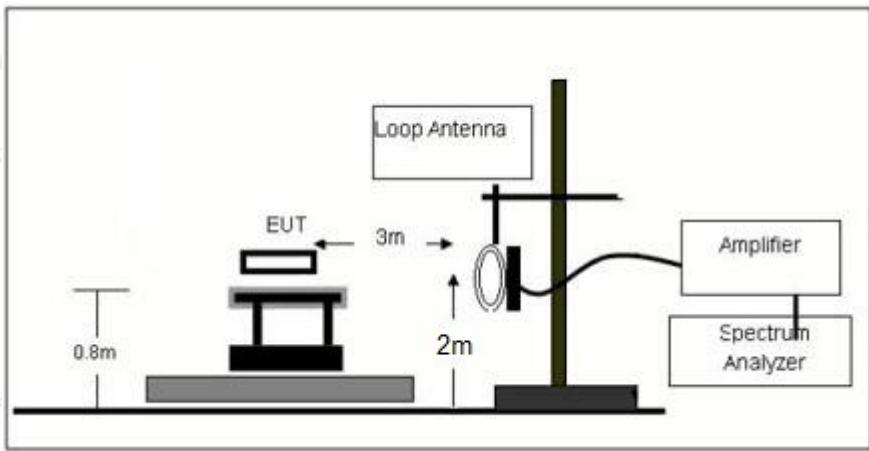
Correction factor = Cable loss + LISN insertion loss

Level=Test receiver reading + correction factor



4. Radiated Emissions

4.1. Block Diagram of Test Setup



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4.2. Rules and Specifications

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
(miscellaneous)				
	Any non-ISM frequency	Below 500 500 or more	15 15 × SQRT(power/500)	300 1300

Remark:

- (1) Emission level dBuV/m for 0.009~30MHz = $20\log(15) + 40\log(300/3)$ dBuV/m;
- (2) Calculated according FCC 18.305.
- (3) The smaller limit shall apply at the cross point between two frequency bands.
- (4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3. Test Procedure

Measurement distance 3m

For the measurement range up to 30MHz in the following plots the field strength result from 3m Distance measurements are extrapolated to 300m and 30m distance respectively, by 40dB/decade, Per antenna factor scaling.

Measurements below 1000MHz are performed with a peak detector and compared to average limits, Measurements with an average detector are not required.

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4. Test Result

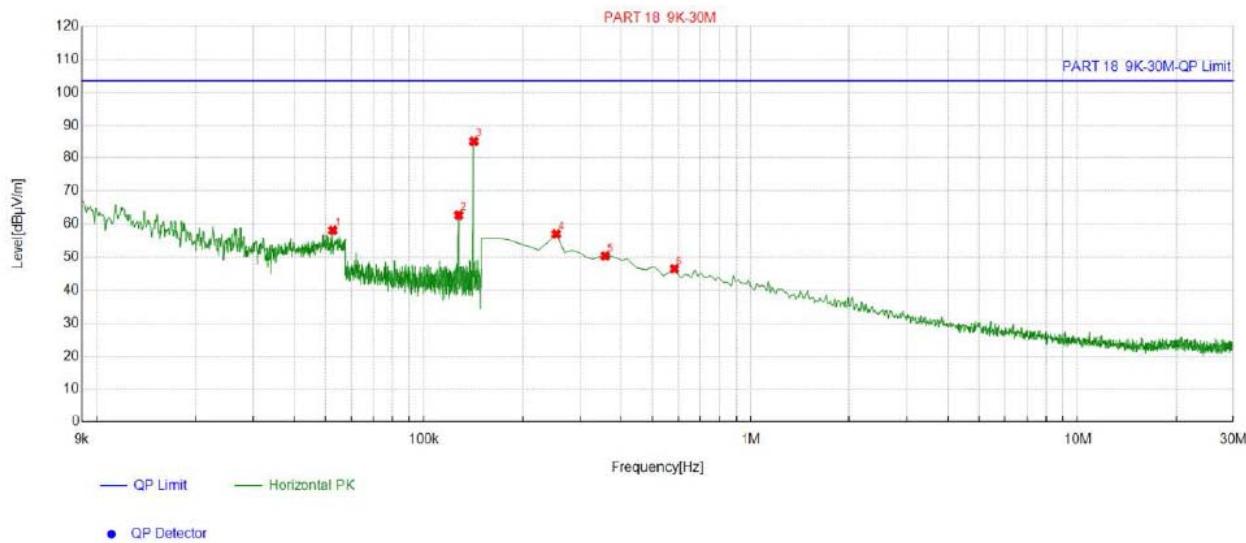
PASS

Note: All the test modes completed for test. Only the worst result (ANT 1+ ANT 2+ ANT 3) was reported as below:



Mobile phone:

For 9KHz - 30MHz

**Suspected List**

NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
1	0.052732	13.93	44.16	58.09	103.50	45.41
2	0.12757	13.78	48.88	62.66	103.50	40.84
3	0.141818	13.78	71.76	85.54	103.50	17.96
4	0.254527	13.68	43.34	57.02	103.50	46.48
5	0.359055	13.74	36.59	50.33	103.50	53.17
6	0.583042	13.72	32.71	46.43	103.50	57.07

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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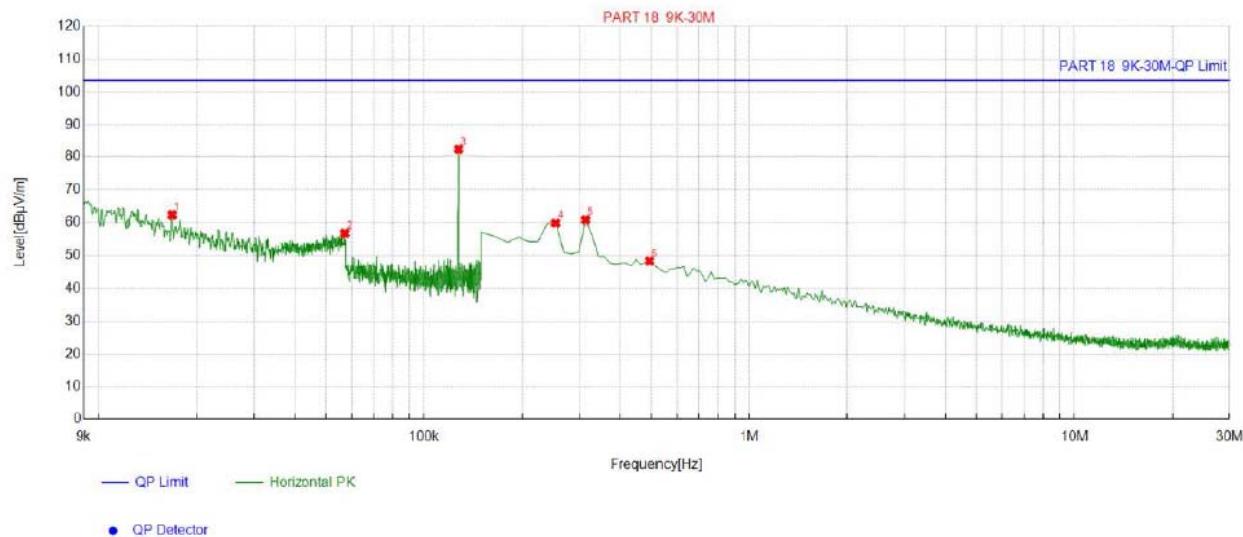
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Watch:

For 9KHz - 30MHz



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
1	0.016829	15.22	47.11	62.33	103.50	41.17
2	0.057176	13.95	42.83	56.78	103.50	46.72
3	0.12757	13.78	69.70	83.48	103.50	20.02
4	0.254527	13.68	46.18	59.86	103.50	43.64
5	0.314257	13.70	47.10	60.80	103.50	42.70
6	0.493447	13.73	34.58	48.31	103.50	55.19

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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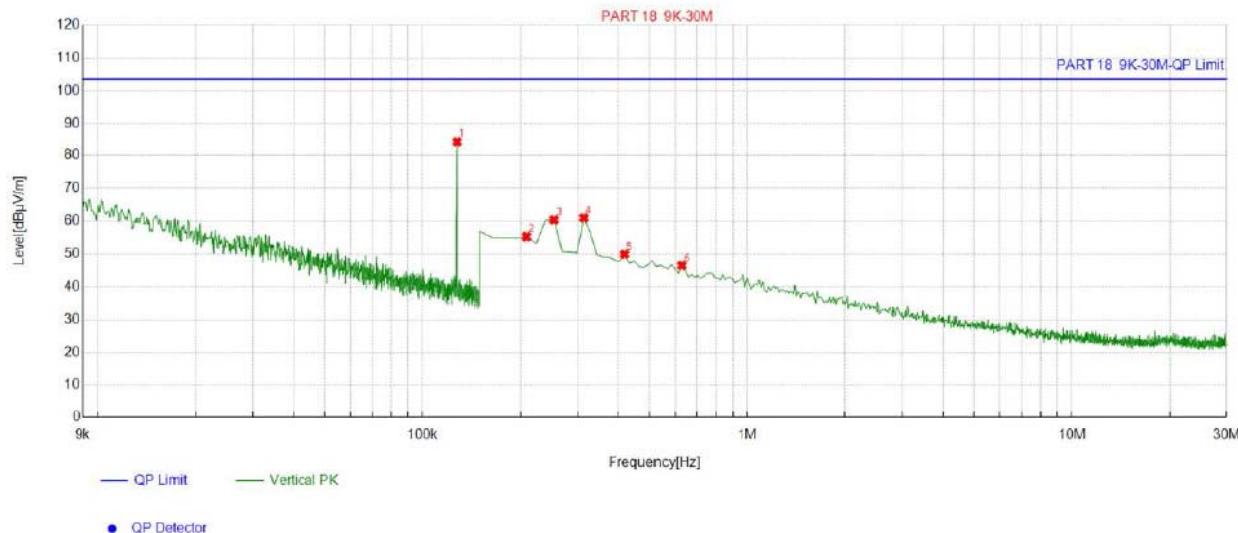
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AirPods:

For 9KHz - 30MHz



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
1	0.12757	13.78	70.23	84.01	103.50	19.49
2	0.20973	13.66	41.63	55.29	103.50	48.21
3	0.254527	13.68	46.69	60.37	103.50	43.13
4	0.314257	13.70	47.26	60.96	103.50	42.54
5	0.418784	13.78	36.11	49.89	103.50	53.61
6	0.627839	13.74	32.76	46.50	103.50	57.00

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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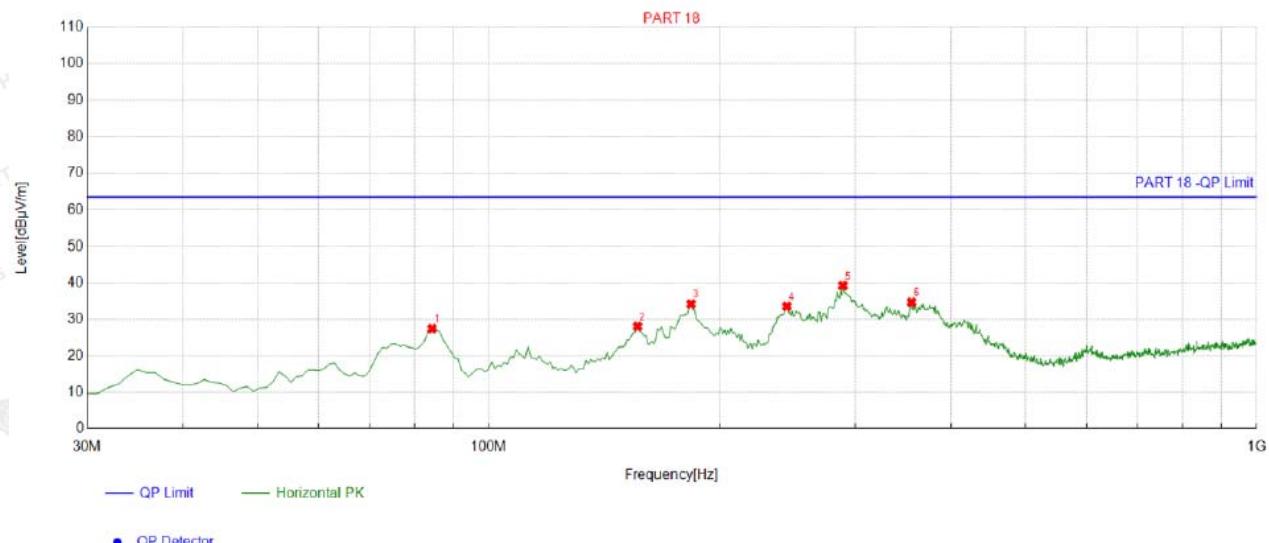
TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

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For 30MHz-1GHz

Antenna polarity: H

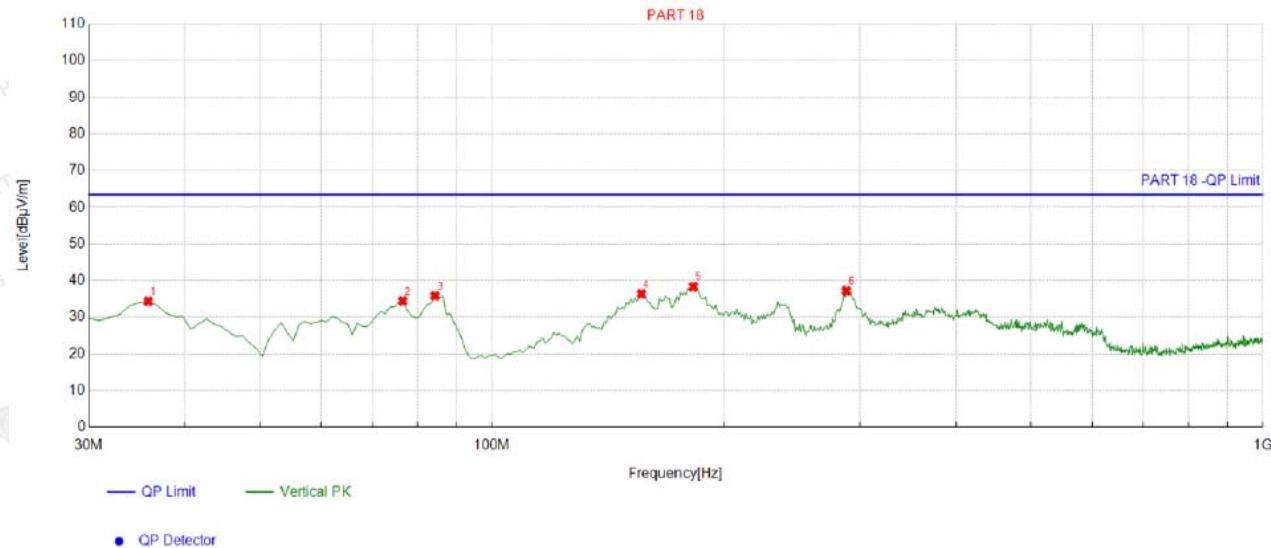


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	84.374374	-17.86	45.37	27.51	63.50	35.99	100	1	Horizontal
2	156.22622	-18.26	46.40	28.14	63.50	35.36	100	323	Horizontal
3	183.41341	-16.65	50.91	34.26	63.50	29.24	100	19	Horizontal
4	244.58458	-13.27	46.89	33.62	63.50	29.88	100	259	Horizontal
5	289.24924	-12.37	51.68	39.31	63.50	24.19	100	345	Horizontal
6	355.27527	-11.04	45.80	34.76	63.50	28.74	100	179	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



Antenna polarity: V



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.825826	-15.82	50.15	34.33	63.50	29.17	100	304	Vertical
2	76.606607	-17.08	51.49	34.41	63.50	29.09	100	254	Vertical
3	84.374374	-17.86	53.70	35.84	63.50	27.66	100	210	Vertical
4	156.22622	-18.26	54.64	36.38	63.50	27.12	100	103	Vertical
5	182.44244	-16.79	55.15	38.36	63.50	25.14	100	109	Vertical
6	288.27827	-12.42	49.63	37.21	63.50	26.29	100	358	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



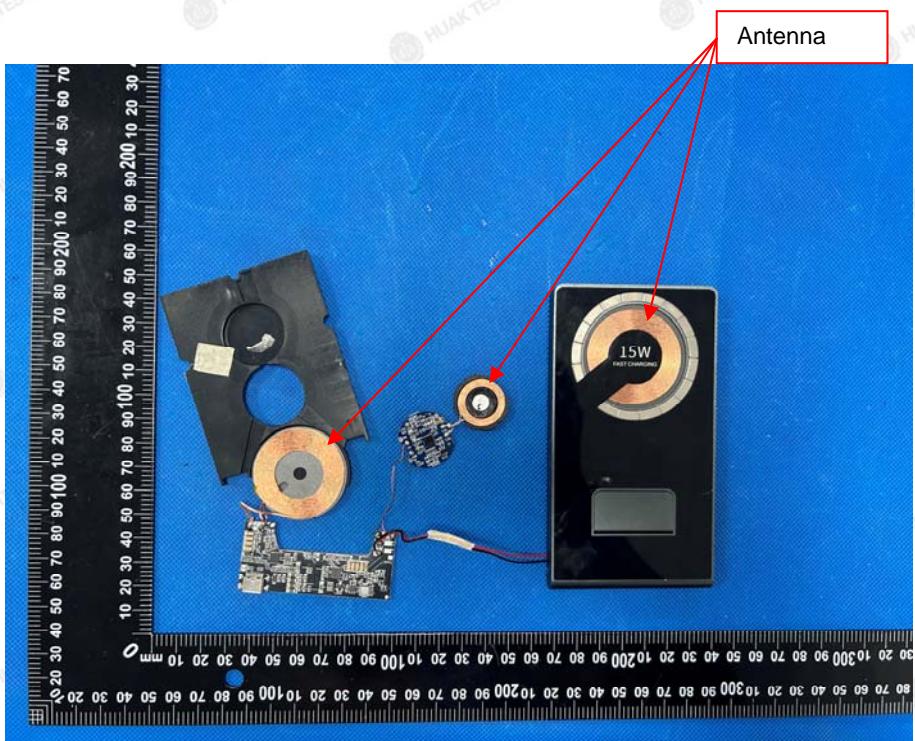
5. Antenna Requirement

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

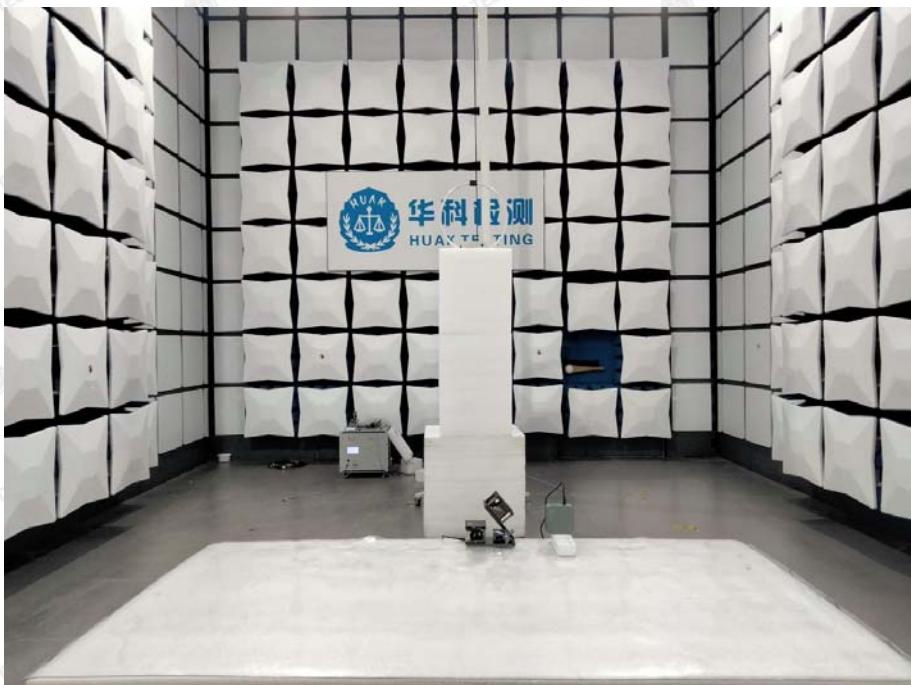
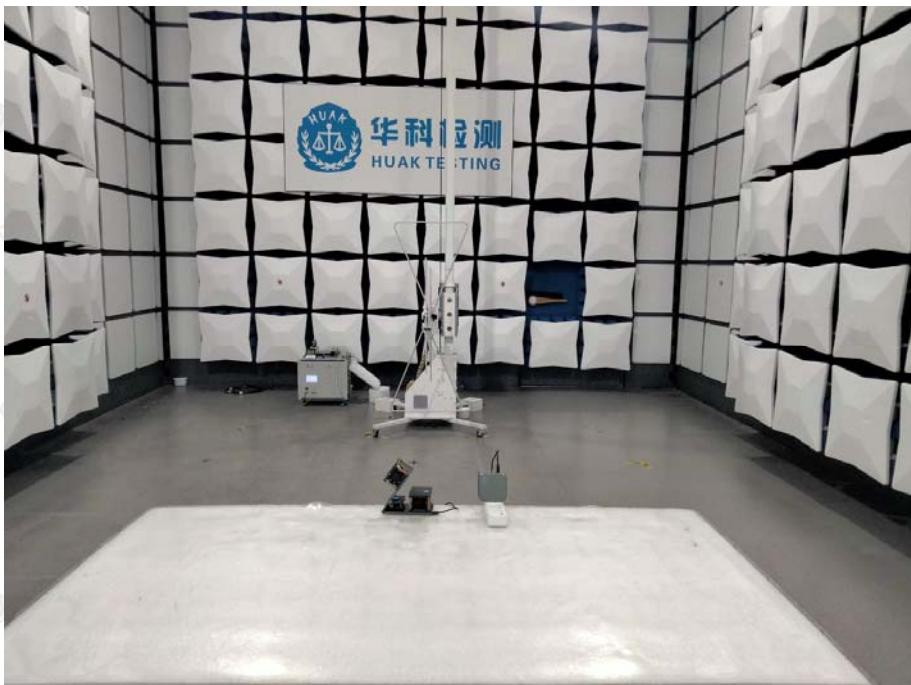
The antenna used in this product is a Coil Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.





6. Photographs of Test

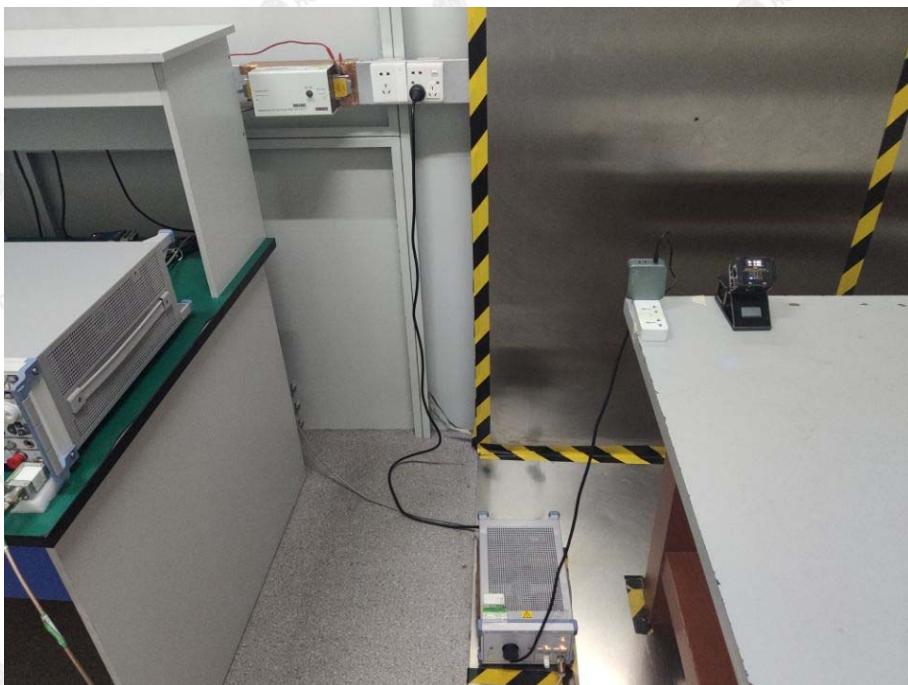
Radiated Emission



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**Conducted Emission**

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7. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----