



FCC Test Report

**Test Report
On Behalf of
Shenzhen Ling Hong Technology Co., Ltd.
For
CHARGING STATION**

**Model No.: PD150-CS3241, PD100-CS3241, PD120-CS, PD100-CS,
PD080-CS, PD060-CS, PD40-CS, WLC25, WLC35, WLC45, WLC55,
WLC65, WLC75, WLC85, WLC95, WLC100**

FCC ID: 2BEJR-PD150-CS3241

Prepared For : Shenzhen Ling Hong Technology Co., Ltd.
B301 One City Avenue, MaMiao Street, Yantian District, Shenzhen,
Guangdong, 518000 China

Prepared By : Shenzhen HUAK Testing Technology Co., Ltd.
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
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Date of Test: Jan. 12, 2024 ~ Jan. 23, 2024

Date of Report: Jan. 23, 2024

Report Number: HK2401120249-1E



Test Result Certification

Applicant's Name : Shenzhen Ling Hong Technology Co., Ltd.

Address : B301 One City Avenue, MaMiao Street, Yantian District, Shenzhen, Guangdong, 518000 China

Manufacturer's Name : SUNLIT ELECTRONIC

Address : FLAT B, 6/F, CANARY COURT, FANLING TOWN CENTRE, N.T. HONG KONG

Product Description

Trade Mark : N/A

Product Name : CHARGING STATION

Model and/or Type Reference: PD150-CS3241, PD100-CS3241, PD120-CS, PD100-CS, PD080-CS, PD060-CS, PD40-CS, WLC25, WLC35, WLC45, WLC55, WLC65, WLC75, WLC85, WLC95, WLC100

Standards : FCC CFR 47 PART 18

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Date of Test :

Date (s) of performance of tests : **Jan. 12, 2024 ~ Jan. 23, 2024**

Date of Issue : **Jan. 23, 2024**

Test Result : **Pass**

Testing Engineer : 

(Len Liao)

Technical Manager : 

(Sliver Wan)

Authorized
Signatory



(Jason Zhou)

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Jan. 23, 2024	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.

Address: 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 CA100229.

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:	CHARGING STATION
Model Name:	PD150-CS3241
Series Models:	PD100-CS3241, PD120-CS, PD100-CS, PD080-CS, PD060-CS, PD40-CS, WLC25, WLC35, WLC45, WLC55, WLC65, WLC75, WLC85, WLC95, WLC100
Model Difference:	All model's the function, software and electric circuit are the same, only with product color and model named different. Test sample model: PD150-CS3241.
Trade Mark:	N/A
FCC ID:	2BEJR-PD150-CS3241
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Operation Frequency:	112KHz~205KHz
Test Frequency:	Mobile Phone: 129KHz Earbuds 1: 134KHz Earbuds 2: 134KHz
Modulation Type:	ASK
Power Source:	Input: AC 100-240V, 50/60Hz, 1.5A Output (USB): DC 5V, 2.4A (Max) Output (Type-C): DC 5V-20V, 3.25A(Max 65W) Phone Wireless Output: 5W/ 7.5W/10W/15W Earbuds 1 Wireless Output: 5W Earbuds 2 Wireless Output: 5W
Power Rating:	Input: AC 100-240V, 50/60Hz, 1.5A Output (USB): DC 5V, 2.4A (Max) Output (Type-C): DC 5V-20V, 3.25A(Max 65W) Phone Wireless Output: 5W/ 7.5W/10W/15W Earbuds 1 Wireless Output: 5W Earbuds 2 Wireless Output: 5W
Note: The transfer system includes three coils, 3 coils can work individually or can work at the same time. All the situation has been tested, only the worst situation was recorded in the report.	

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2.2. Carrier Frequency of Channels

	Test Frequency
01	129KHz
02	134KHz
03	134KHz

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2.3. Test Mode

Test Item	Test Mode	Description
Radiated & Conducted Test Cases	Mode 1	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <1%) + Earbuds 1 (Full load) + Earbuds 2 (Full load)
	Mode 2	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <50%) + Earbuds 1 (Half load) + Earbuds 2 (Full load)
	Mode 3	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: >95%) + Earbuds 1 (Null load) + Earbuds 2 (Full load)
	Mode 4	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <1%) + Earbuds 1 (Full load) + Earbuds 2 (Half load)
	Mode 5	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <50%) + Earbuds 1 (Half load) + Earbuds 2 (Half load)
	Mode 6	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: >95%) + Earbuds 1 (Null load) + Earbuds 2 (Half load)
	Mode 7	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <1%) + Earbuds 1 (Full load) + Earbuds 2 (Null load)
	Mode 8	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <50%) + Earbuds 1 (Half load) + Earbuds 2 (Null load)
	Mode 9	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: >95%) + Earbuds 1 (Null load) + Earbuds 2 (Null load)
	Mode 10	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <1%)
	Mode 11	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <50%)
	Mode 12	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: >95%)
	Mode 13	AC/DC Adapter + EUT + Earbuds 1 (Full load)
	Mode 14	AC/DC Adapter + EUT + Earbuds 1 (Half load)
	Mode 15	AC/DC Adapter + EUT + Earbuds 1 (Null load)
	Mode 16	AC/DC Adapter + EUT + Earbuds 2 (Full load)
	Mode 17	AC/DC Adapter + EUT + Earbuds 2 (Half load)
	Mode 18	AC/DC Adapter + EUT + Earbuds 2 (Null load)
	Mode 19	AC/DC Adapter + EUT (Null Load)

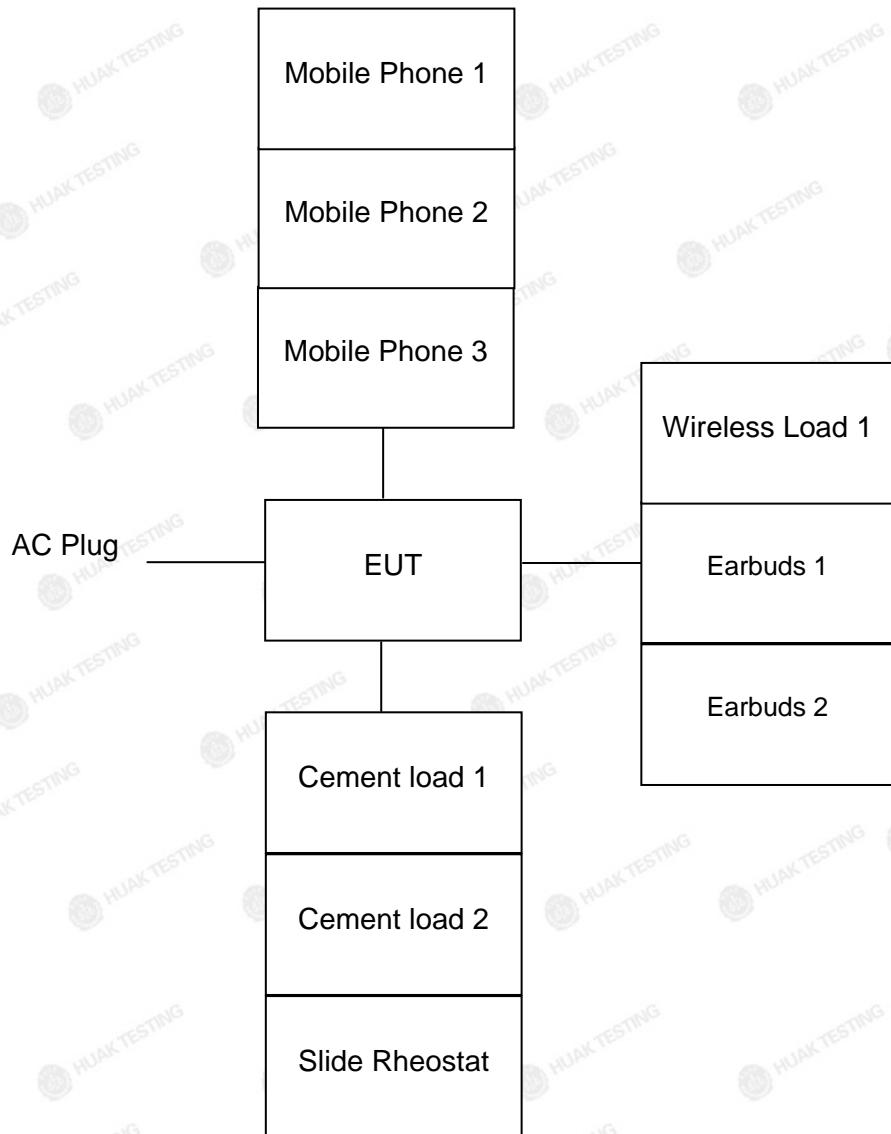
Note: 1. All modes and configurations above have been tested, the worst-case configuration is Mode 1.

- For Radiated Emission, 3axis were chosen for testing for each applicable mode, including the mobile phone in vertical and horizontal positions.
- The wireless load replaces the Mobile Phone by Lab.
- According to the manufacturer's design principle, the wireless charging power will reach its maximum when the client device's battery level is between 1% and 10%.



2.4. 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.



2.5. 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	CHARGING STATION	N/A	PD150-CS3241	N/A	EUT
2	USB Cable*5	N/A	N/A	Length:0.25m	Accessory
3	Wireless Load 1	YBZ	N/A	Wireless input: 15W	Peripheral
4	Earbuds 1	N/A	N/A	Wireless input: 5W	Peripheral
5	Earbuds 2	N/A	N/A	Wireless input: 5W	Peripheral
6	Cement load 1	N/A	N/A	10 Ω	Peripheral
7	Cement load 2	N/A	N/A	8 Ω	Peripheral
8	Slide Rheostat	N/A	N/A	10 Ω	Peripheral
9	Mobile Phone 1	N/A	N/A	N/A	Peripheral
10	Mobile Phone 2	N/A	N/A	N/A	Peripheral
11	Mobile Phone 3	N/A	N/A	N/A	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.



2.6. 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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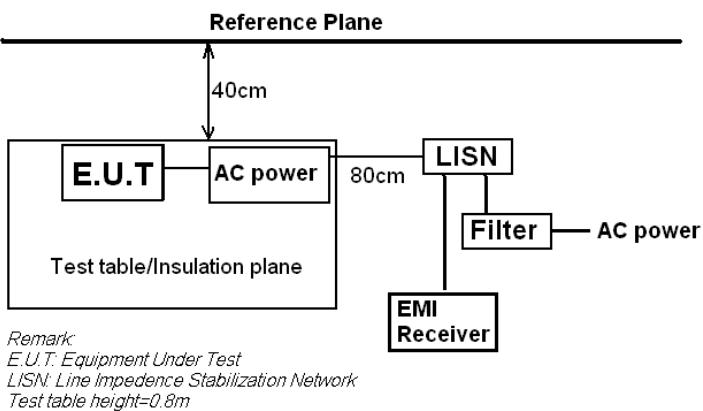
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3. Conducted Emission Test

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.

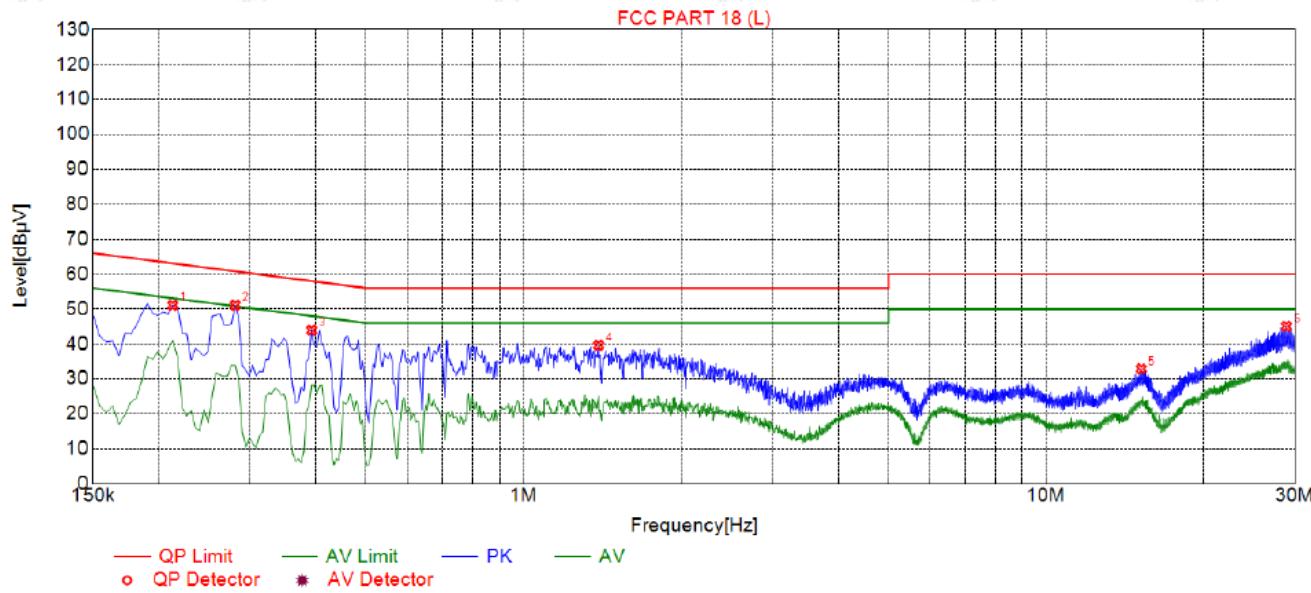


3.4. Test Result

PASS

All the test modes completed for test. Only the worst result 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	0.2130	51.09	20.05	63.09	12.00	31.04	PK	L
2	0.2805	51.12	20.04	60.80	9.68	31.08	PK	L
3	0.3930	43.93	20.04	58.03	14.10	43.89	PK	L
4	1.3920	39.61	20.11	56.00	16.39	39.50	PK	L
5	15.2205	32.88	19.96	60.00	27.12	12.92	PK	L
6	28.8735	45.08	20.26	60.00	14.92	44.82	PK	L

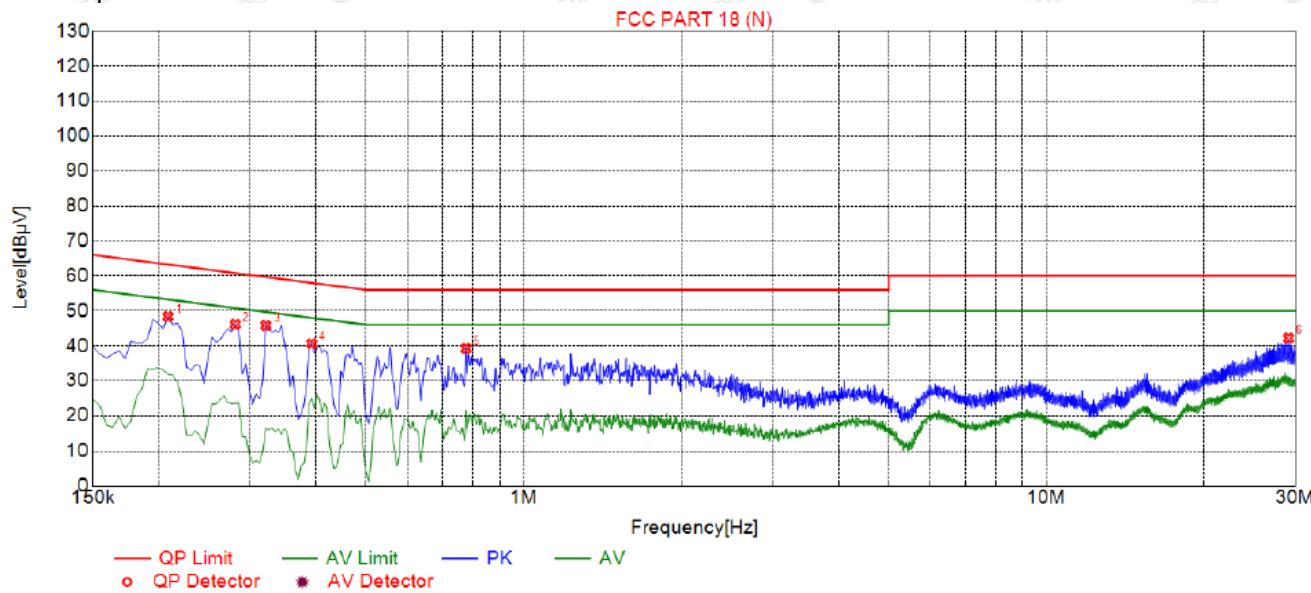
Remark: Margin = Limit – Level

Correction factor = Cable loss + 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	0.2085	48.37	20.04	63.26	14.89	50.33	PK	N
2	0.2805	46.13	20.04	60.80	14.67	48.09	PK	N
3	0.3210	45.84	20.05	59.76	13.92	47.79	PK	N
4	0.3930	40.65	20.04	58.03	17.38	42.61	PK	N
5	0.7755	39.25	20.05	56.00	16.75	41.20	PK	N
6	29.1120	42.19	20.26	60.00	17.81	43.93	PK	N

Remark: Margin = Limit – Level

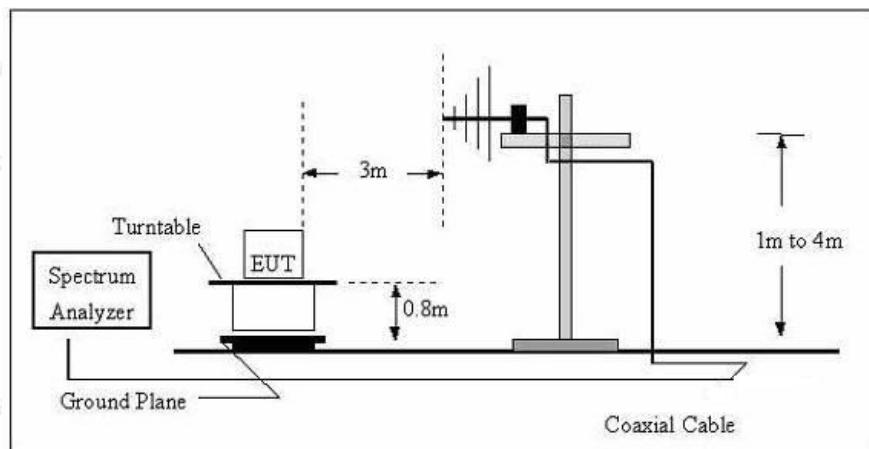
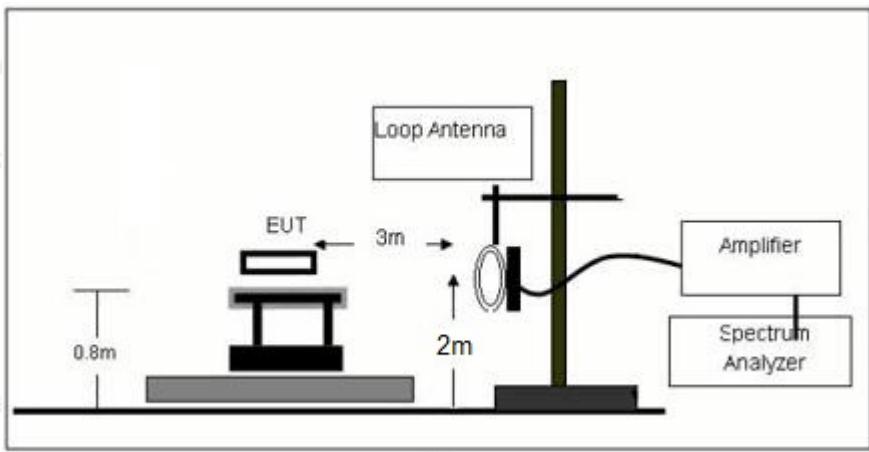
Correction factor = Cable lose + LISN insertion loss

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.

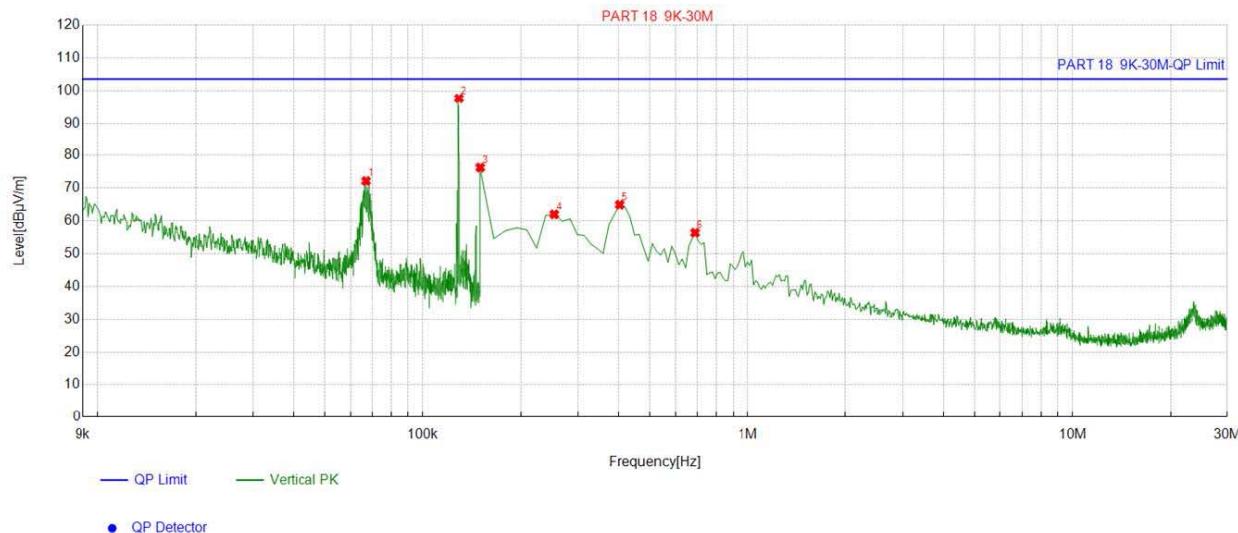
4.4. Test Result

PASS



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	0.06698	13.96	58.22	72.18	103.50	31.32
2	0.129051	13.78	83.85	97.63	103.50	5.87
3	0.15	13.76	62.52	76.28	103.50	27.22
4	0.254527	13.68	48.32	62.00	103.50	41.50
5	0.403852	13.79	51.16	64.95	103.50	38.55
6	0.687569	13.79	42.62	56.41	103.50	47.09

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

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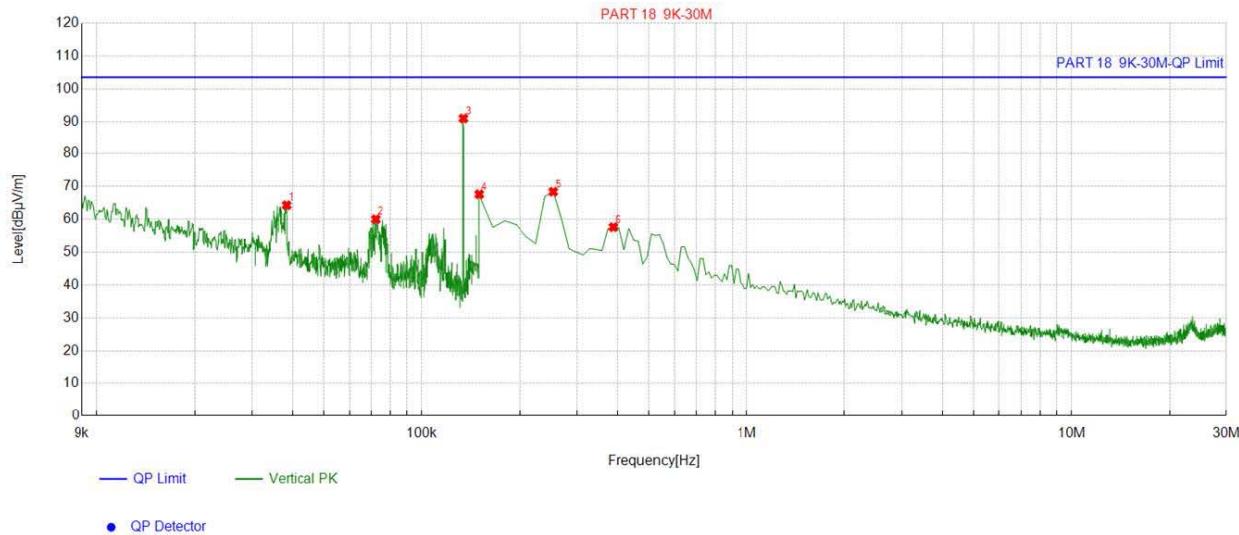
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Earbuds 1:

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	0.038272	14.52	49.76	64.28	103.50	39.22
2	0.07227	13.99	46.04	60.03	103.50	43.47
3	0.13413	13.78	77.34	91.12	103.50	12.38
4	0.15	13.76	53.87	67.63	103.50	35.87
5	0.254527	13.68	54.72	68.40	103.50	35.10
6	0.388919	13.77	43.84	57.61	103.50	45.89

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

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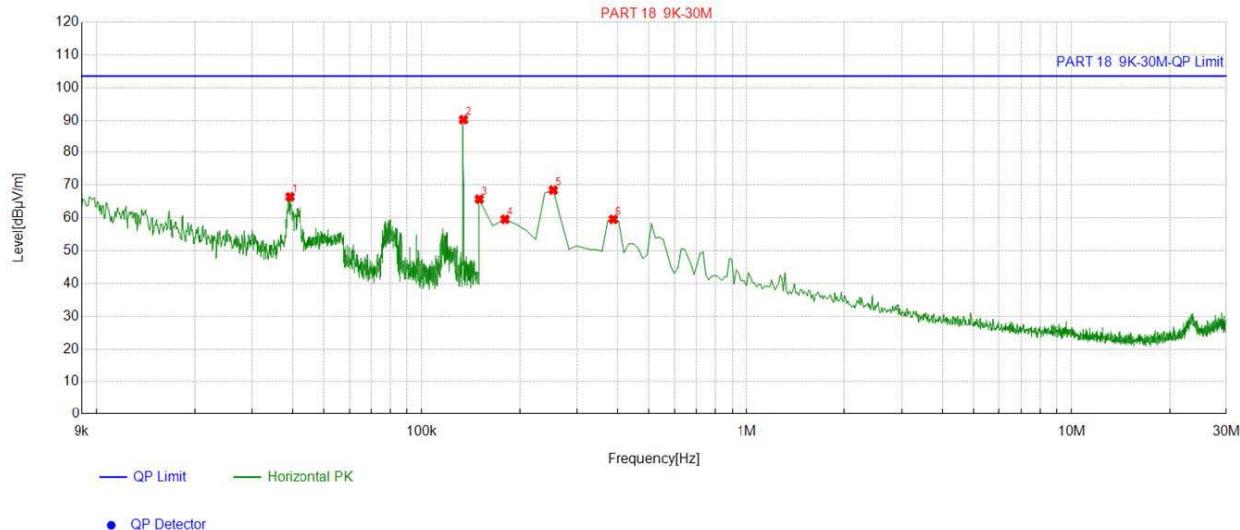
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Earbuds 2:

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	0.039189	14.51	51.93	66.44	103.50	37.06
2	0.13413	13.78	76.59	90.37	103.50	13.13
3	0.15	13.76	51.96	65.72	103.50	37.78
4	0.179865	13.70	45.87	59.57	103.50	43.93
5	0.254527	13.68	54.79	68.47	103.50	35.03
6	0.388919	13.77	45.78	59.55	103.50	43.95

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

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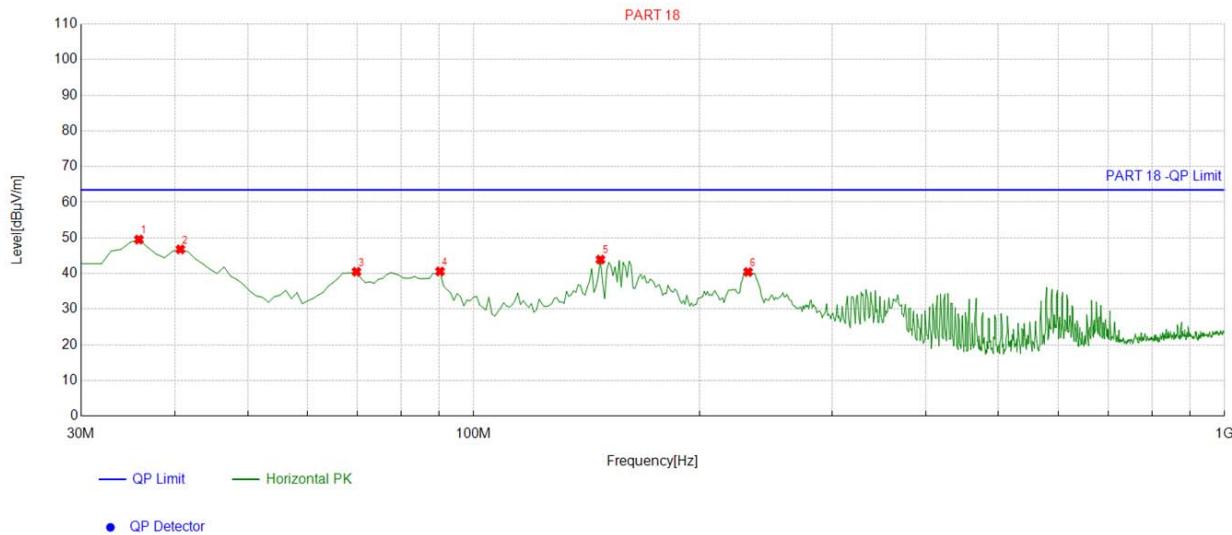
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For 30MHz-1GHz

Antenna polarity: H

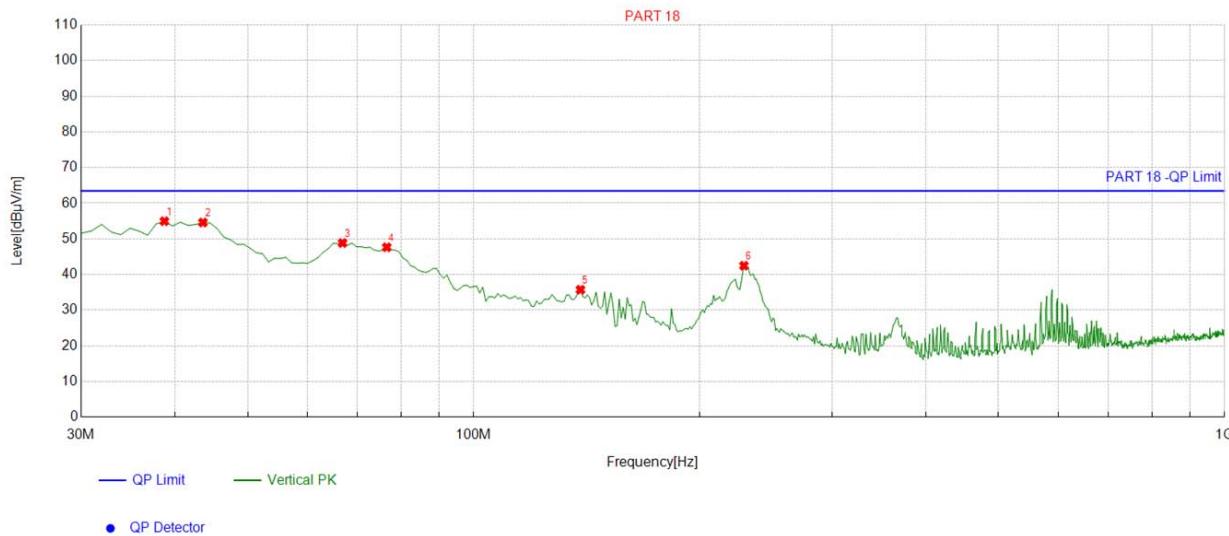


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.825826	-15.82	65.36	49.54	63.50	13.96	100	260	Horizontal
2	40.680681	-15.30	62.09	46.79	63.50	16.71	100	192	Horizontal
3	69.80981	-15.91	56.41	40.50	63.50	23.00	100	1	Horizontal
4	90.2002	-16.88	57.48	40.60	63.50	22.90	100	214	Horizontal
5	147.48748	-18.58	62.50	43.92	63.50	19.58	100	101	Horizontal
6	231.96196	-13.74	54.18	40.44	63.50	23.06	100	156	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	38.738739	-15.54	70.50	54.96	63.50	8.54	100	299	Vertical
2	43.593594	-15.10	69.70	54.60	63.50	8.90	100	296	Vertical
3	66.896897	-15.28	64.13	48.85	63.50	14.65	100	63	Vertical
4	76.606607	-17.08	64.73	47.65	63.50	15.85	100	82	Vertical
5	138.74874	-17.81	53.55	35.74	63.50	27.76	100	160	Vertical
6	229.04904	-13.95	56.43	42.48	63.50	21.02	100	335	Vertical

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

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5. Antenna Requirement

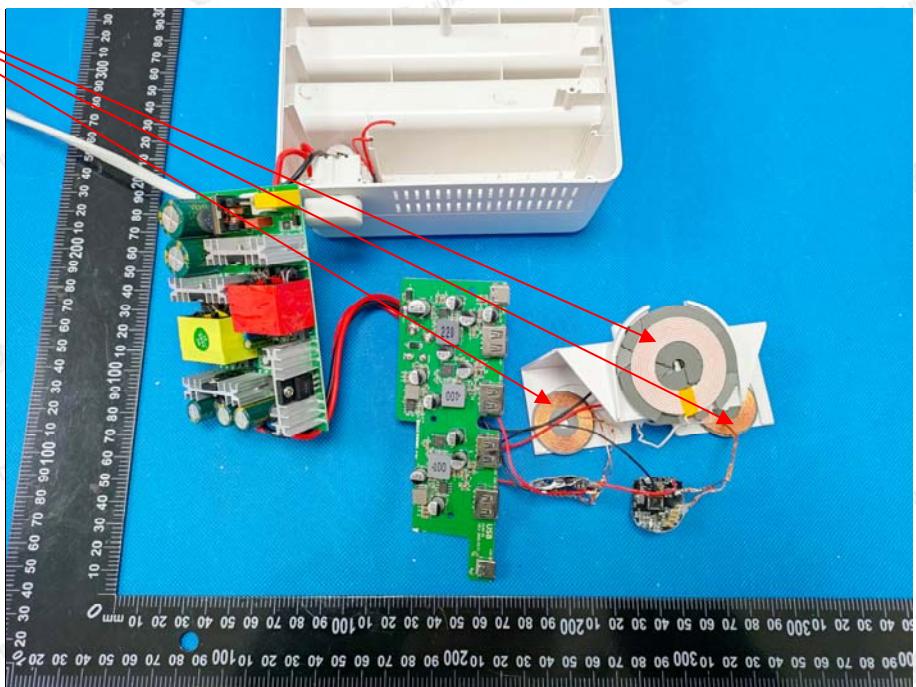
Refer to statement below for compliance.

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

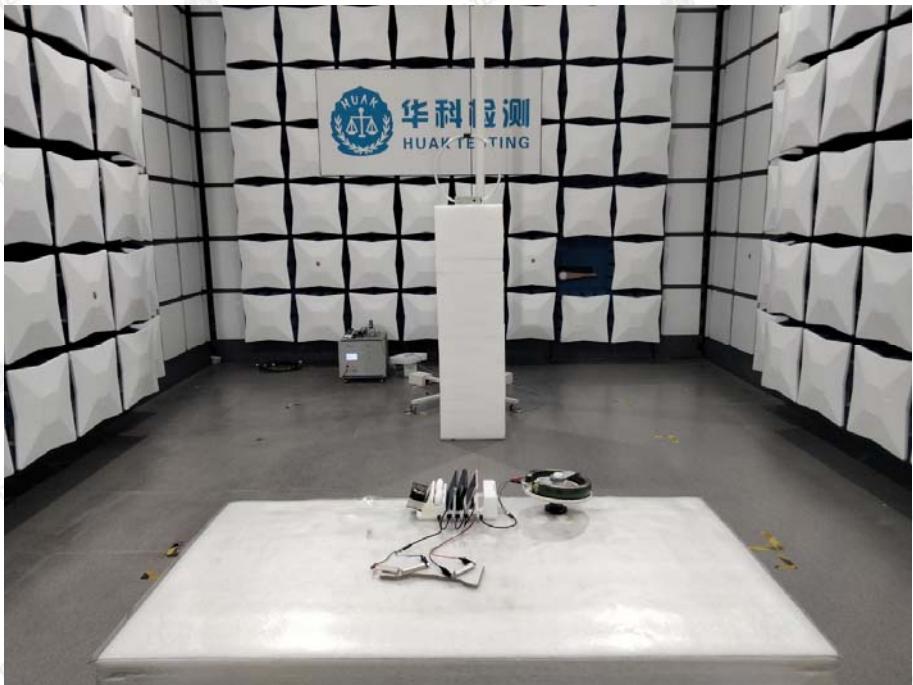
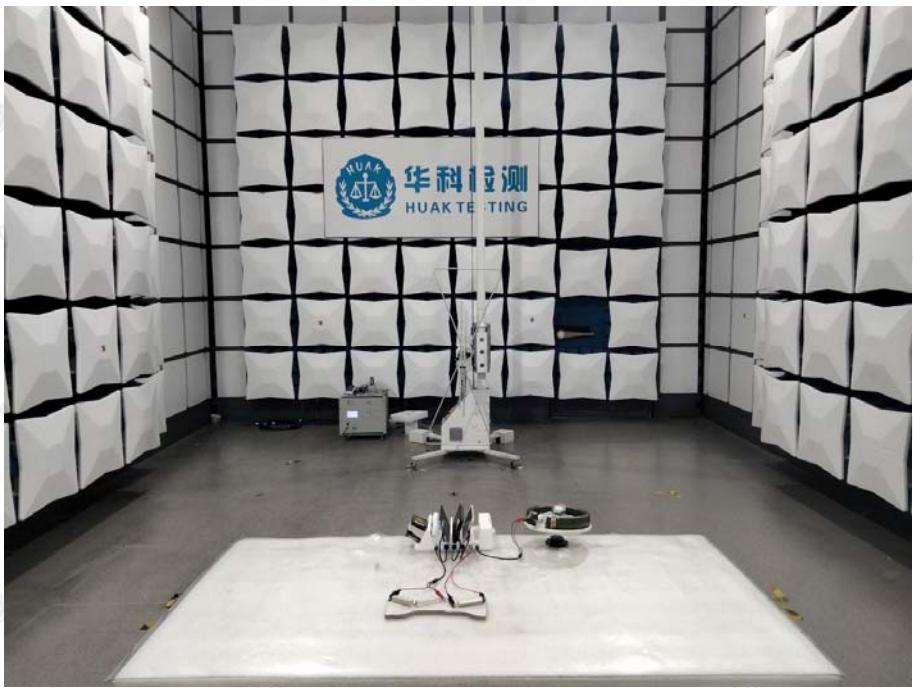
Antenna





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-----