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FCC TEST REPORT

Test report On Behalf of SHENZHEN NITO POWER SOURCE TECHNOLOGY CO.,LTD. For Wireless Car Charger Holder Model No.: JR-ZS299, JR-ZS345, JR-ZS346

FCC ID: 2AWL2-JR-ZS299

Prepared For :

SHENZHEN NITO POWER SOURCE TECHNOLOGY CO.,LTD. 201,No.8 Building,Jinfanghua Electricity, Industrial park,Bantian St.,Longgang Dist., Shenzhen, 518129, 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:
 Aug. 02, 2022 ~ Aug. 09, 2022

 Date of Report:
 Aug. 09, 2022

 Report Number:
 HK2208013326-1E

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Report No.: HK2208013326-1E

TEST RESULT CERTIFICATION

Applicant's name:	SHENZHEN NITO POWER SOURCE TECHNOLOGY CO., LTD.
Address	201,No.8 Building,Jinfanghua Electricity, Industrial park,Bantian St.,Longgang Dist., Shenzhen, 518129, China
Manufacture's Name:	Xiaozhi (Dongguan) Technology Co., Ltd
Address	RM 502, No. 4 Building, No. 302 TanglongXi Road, Tangxia Town, Dongguan, Guangdong, China
Product description	
Trade Mark:	JOYROOM
Product name:	Wireless Car Charger Holder
Model and/or type reference .:	JR-ZS299, JR-ZS345, JR-ZS346
Standards	FCC CFR 47 PART 18

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Date of Test	
Date (s) of performance of tests:	Aug. 02, 2022 ~ Aug. 09, 2022
Date of Issue	Aug. 09, 2022
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	Aug. 09, 2022	Jason Zhou
TAK TEST. TAK TE	IAK TEST	TEST. JAKTEST.	UAK TEST.
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- 1. TEST SUMMARY
 - 1.1. Test Procedures and Results

DESCRIPTION OF TEST CONDUCTED EMISSIONS TEST RADIATED EMISSION TEST SECTION NUMBER 18.307 18.305

RESULT COMPLIANT 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)	= 7	3.90dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	=	3.90dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	=	4.28dB, k=2

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2. GENERAL INFORMATION

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2.1. General Description of EUT

Equipment:	Wireless Car Charger Holder	-csmNG	TESTING
Model Name:	JR-ZS299	HUAK	HUAK
Series Models:	JR-ZS345, JR-ZS346		<i></i>
Model Difference:	All model's the function, software and e with a product model named different.		TESTIN'
Trade Mark:	JOYROOM	STANG	Ð
FCC ID:	2AWL2-JR-ZS299	Jak 1	and
Antenna Type:	Coil Antenna	- HUAK TESTIN	HUAKTES
Antenna Gain:	0dBi	0	
Operation frequency:	111.5KHz~205KHz		
Test frequency:	121.6KHz	AK TESTING	AK TESTING
Number of Channels:	1 0 100	O Home	O Home
Modulation Type:	ASK	TESTING	
D	Input: DC5V-1A, DC7.5V-1A, DC9V-1.	1A, DC12V-1.25A	K TESTING
Power Source:	Output: 5W/7.5W/10W/15W		
David Dation	Input: DC5V-1A, DC7.5V-1A, DC9V-1.1	1A, DC12V-1.25A	
Power Rating:	Output: 5W/7.5W/10W/15W		

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Load

EUT

2.2. Carrier Frequency of Channels

Operation F	Frequency each of channel	ALAKTESTI	HUNKTED	IAK TEST	HUAKTES
Channel	Frequency	0	0	0"	0
1	121.6KHz				

2.3. Operation of EUT during testing Operating Mode The mode is used: Transmitting mode

2.4. Description of Test Setup

Operation of EUT during testing:

AC Plug _

Adapter information Model:BD-F1 Input: AC100-240V, 50/60Hz, 1.5A USB-C Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3.25A MAX USB-A Output: DC5V/2.4A

Adapter

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.

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2.5. Measurement Instruments List

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Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 18, 2022	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 18, 2022	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 18, 2022	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 18, 2022	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 18, 2022	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	6 HKE-013	Feb. 18, 2022	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 18, 2022	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 18, 2022	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. 18, 2022	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 18, 2022	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 18, 2022	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 17, 2020	3 Year

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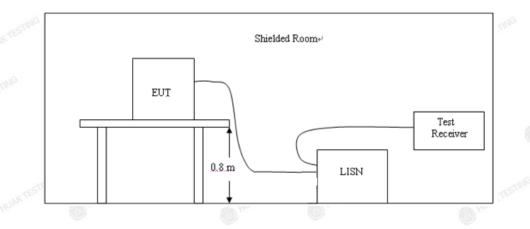
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3. CONDUCTED EMISSION TEST

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 measured with a 50 uH/50 ohm LISN (uV)	
Consumer equipment:		
0.45 to 2.51	250	
2.51 to 3.0	3,000	
3.0 to 30	250	

* 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.
 - 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.
 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

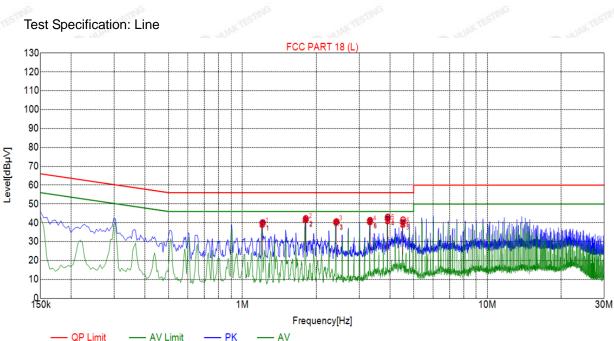
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3.4. Test Result

PASS

All the test modes completed for test. Only the worst result was reported as below:



QP Limit QP Detector

AV Detector

Sus	Suspected List											
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре				
1	1.2030	39.00	20.09	46.00	7.00	18.91	AV	L				
2	1.8060	41.52	20.14	46.00	4.48	21.38	AV	L				
3	2.4090	40.39	20.18	46.00	5.61	20.21	AV	L				
4	3.3135	40.40	20.24	46.00	5.60	20.16	AV	L				
5	3.9120	40.91	20.25	46.00	5.09	20.66	AV	L				
6	4.5150	39.01	20.25	46.00	6.99	18.76	AV	L				

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Einal Dat

< 1	1 IIIGI	Duiu	LISC									
	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]	Туре
×	1	1.2099	20.09	40.18	56.00	15.82	20.09	39.89	46.00	6.11	19.80	L
	2	1.8146	20.14	42.43	56.00	13.57	22.29	41.71	46.00	4.29	21.57	L
	3	2.4196	20.18	40.73	56.00	15.27	20.55	40.25	46.00	5.75	20.07	L
	4	3.9229	20.25	43.21	56.00	12.79	22.96	42.49	46.00	3.51	22.24	L
8	5	4.5259	20.25	41.74	56.00	14.26	21.49	40.39	46.00	5.61	20.14	L
	6	3.3195	20.24	41.42	56.00	14.58	21.18	41.00	46.00	5.00	20.76	L

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

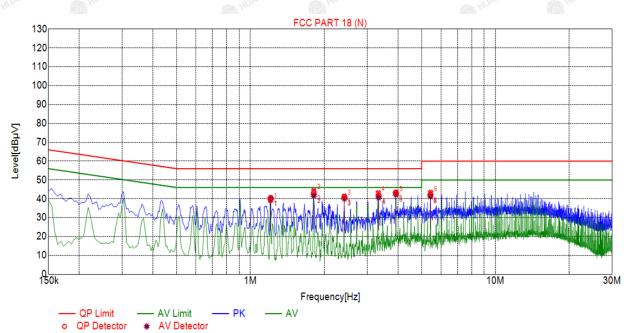
Level=Test receiver reading + correction factor

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Test Specification: Neutral



Suspected List													
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре					
1	1.2075	39.49	20.09	56.00	16.51	19.40	PK	N					
2	1.8150	44.19	20.14	56.00	11.81	24.05	PK	N					
3	2.4180	41.22	20.18	56.00	14.78	21.04	PK	N					
4	3.3270	43.04	20.24	56.00	12.96	22.80	PK	N					
5	3.9300	43.15	20.25	56.00	12.85	22.90	PK	N					
6	5.4420	43.28	20.26	60.00	16.72	23.02	PK	N					

Final Data List

2	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]	Туре
	1	1.2097	20.09	40.32	56.00	15.68	20.23	40.02	46.00	5.98	19.93	N
	2	1.8146	20.14	43.18	56.00	12.82	23.04	41.86	46.00	4.14	21.72	N
5	3	2.4195	20.18	40.92	56.00	15.08	20.74	40.32	46.00	5.68	20.14	N
	4	3.3402	20.24	41.72	56.00	14.28	21.48	40.88	46.00	5.12	20.64	N
	5	3.9232	20.25	43.28	56.00	12.72	23.03	42.48	46.00	3.52	22.23	N
2	6	5.4313	20.26	42.19	60.00	17.81	21.93	41.45	50.00	8.55	21.19	N

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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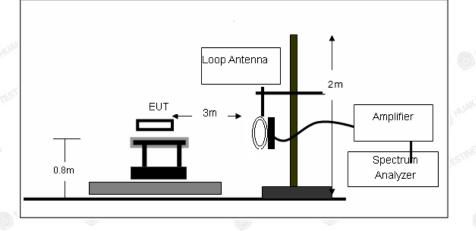


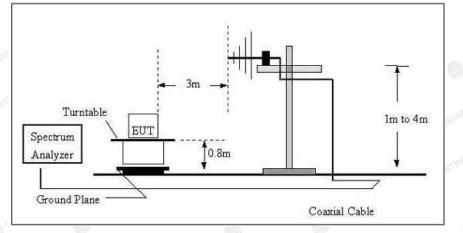
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4. RADIATED EMISSIONS

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:

Equ	ipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
(misce	ellaneous)				
		Any non- ISM frequency	Below 500 500 or more	15 15 × SQRT(power/500)	300 ¹ 300

The field strength limits for RF lighting devices shall be the following:

Frequency (MHz)	Field strength limit at 30 meters (µV/m)			
Consumer equipment:				
30-88	10			
88-216	15			
216-1000	20			

Remark:

(1) Emission level dBuV/m for 0.009~30MHz = 20log (15) + 40log (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 was reported as below:

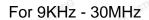
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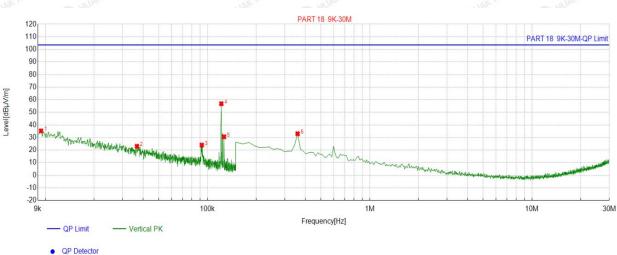
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Suspected List									
Freq.	Factor	Reading	Level	Limit	Margin				
[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]				
0.0094	-13.59	48.81	35.22	103.50	68.28				
0.0367	-16.52	39.53	23.01	103.50	80.49				
0.0921	-17.23	41.18	23.95	103.50	79.55				
0.1216	-17.22	74.04	56.82	103.50	46.68				
0.1263	-17.23	47.78	30.55	103.50	72.95				
0.3591	-17.22	50.19	32.97	103.50	70.53				
	Freq. [MHz] 0.0094 0.0367 0.0921 0.1216 0.1263	Freq.Factor[MHz][dB]0.0094-13.590.0367-16.520.0921-17.230.1216-17.220.1263-17.230.3591-17.22	Freq.FactorReading[MHz][dB][dBµV/m]0.0094-13.5948.810.0367-16.5239.530.0921-17.2341.180.1216-17.2274.040.1263-17.2347.78	Freq.FactorReadingLevel[MHz][dB][dBµV/m][dBµV/m]0.0094-13.5948.8135.220.0367-16.5239.5323.010.0921-17.2341.1823.950.1216-17.2274.0456.820.1263-17.2347.7830.550.3591-17.2250.1932.97	Freq.FactorReadingLevelLimit[MHz][dB][dBμV/m][dBμV/m][dBμV/m]0.0094-13.5948.8135.22103.500.0367-16.5239.5323.01103.500.0921-17.2341.1823.95103.500.1216-17.2274.0456.82103.500.1263-17.2347.7830.55103.500.3591-17.2250.1932.97103.50				

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

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For 30MHz-1GHz



Suspe	cted List								
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.5355	-14.83	33.24	18.41	63.50	45.09	100	17	Horizontal
2	84.3744	-17.68	37.06	19.38	63.50	44.12	100	352	Horizontal
3	165.9359	-17.00	42.54	25.54	63.50	37.96	100	262	Horizontal
4	308.6687	-11.60	43.33	31.73	63.50	31.77	100	249	Horizontal
5	379.5496	-10.37	38.86	28.49	63.50	35.01	100	331	Horizontal
6	419.3594	-8.50	31.99	23.49	63.50	40.01	100	312	Horizontal

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

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Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.5355	-14.83	45.74	30.91	63.50	32.59	100	8	Vertical
2	76.6066	-16.93	39.74	22.81	63.50	40.69	100	90	Vertical
3	133.8939	-17.07	45.32	28.25	63.50	35.25	100	235	Vertical
4	159.1391	-17.08	48.34	31.26	63.50	32.24	100	227	Vertical
5	304.7848	-11.68	37.84	26.16	63.50	37.34	100	200	Vertical
6	347.5075	-11.04	37.42	26.38	63.50	37.12	100	3	Vertical

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

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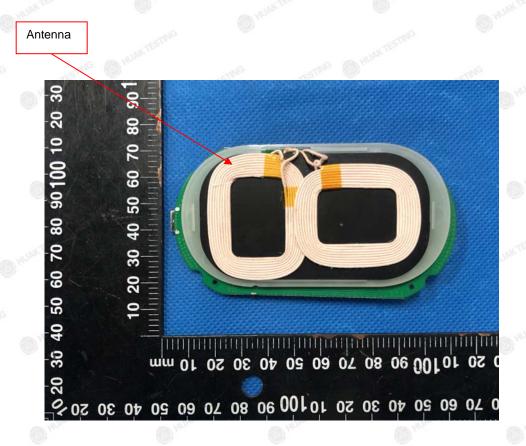
5. ANTENNA REQUIREMENT

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



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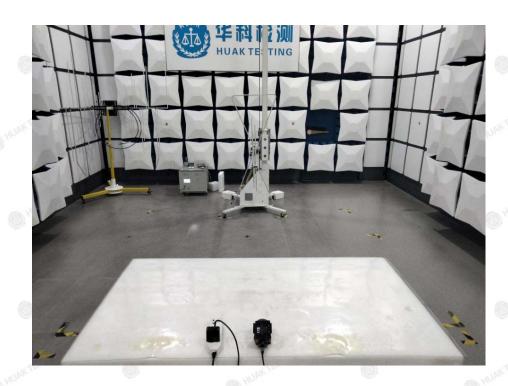
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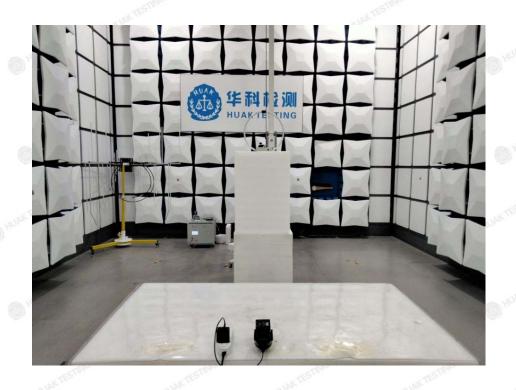
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6. PHOTOGRAPH OF TEST

Radiated Emission





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Conducted Emissions



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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-----

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