

FCC TEST REPORT

Test report On Behalf of SHENZHEN NITO POWER SOURCE TECHNOLOGY CO.,LTD. For

Wireless Car Charger Holder Model No.: JR-ZS298, JR-ZS344, JR-ZS343 FCC ID: 2AWL2-JR-ZS298

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: Jul. 05, 2022 ~ Jul. 14, 2022

Date of Report: Jul. 14, 2022

Report Number: HK2207062916-1E

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TEST RESULT CERTIFICATION

Applicant's name:	SHENZHEN NITO	POWER SOURCE	TECHNOLOGY	CO.,LTD.
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Address...... 201,No.8 Building,Jinfanghua Electricity Industrial park,Bantian

St., Longgang Dist., Shenzhen, 518129, China

Manufacture's Name.....: Xiaozhi (Dongguan) Technology Co., Ltd

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-ZS298, JR-ZS344, JR-ZS343

Standards: FCC CFR 47 PART 18

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Date of Test

Date (s) of performance of tests Jul. 05, 2022 ~ Jul. 14, 2022

Test Result..... Pass

Testing Engineer :

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

(Jason Zhou)

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		Table of Co	ntents	Page
1	. TEST SUMMARY			5
	1.1 . Test Procedures	And Results		5
	1.2 . Information of the	e Test Labora	tory	HUAY 5
	1.3 . Measurement Ur	certainty		5
2.	GENERAL INFORMATION			6
	2.1. General Description	n of EUT		6
	2.2. Carrier Frequency	of Channels		7
	2.3. Operation of EUT	during testing		7
	2.4. Test Mode			THURK TE 7
	2.5. Description of Tes	t Setup		8
	2.6. Measurement Inst	ruments List		9
3.	CONDUCTED EMISSION	TEST		10
	3.1. Block Diagram of	Test Setup		10
	3.2. Conducted Power	Line Emissio	n Limit	10
	3.3. Test Procedure			10
4.	RADIATED EMISSIONS			13
	4.1. Block Diagram of	Test Setup		13
	4.2. Rules and specific	ations		13
	4.3. Test Procedure			14
	4.4. Test Result			14
5.	ANTENNA REQUIREMENT			18
6.	PHOTOGRAPH OF TEST			19
7.	PHOTOS OF THE EUT			21

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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Jul. 14, 2022	Jason Zhou
LAKTES!	LAX TEST	ES. JAK TES.	LAKTES
	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		(B) (T)

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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

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2. GENERAL INFORMATION

2.1. General Description of EUT

Equipment:	Wireless Car Charger Holder	HUAKTESTA	HUAKTESTI
Model Name:	JR-ZS298		(a)
Series Models:	JR-ZS344, JR-ZS343	AK TESTING	a)G
Model Difference:	All model's the function, software and with a product model named different		Sin HO
Trade Mark:	JOYROOM	HUAKTEST	0.6
FCC ID:	2AWL2-JR-ZS298	AK TESTING	"IAK TESTING
Antenna Type:	Coil Antenna	() HOW	(a)
Antenna Gain:	0dBi		
Operation frequency:	111.5KHz~205KHz	TESTING	TESTING
Test frequency:	113KHz	(C) HUAN	MINAN.
Number of Channels:	1	TNG	
Modulation Type:	ASK ADMITTED	HUAKTEE	TESTING
Power Source:	Input: DC 5V/2A or DC 9V/2A or DC Wireless Output: 5W/7.5W/10W/15W		HUAR
Power Rating:	Input: DC 5V/2A or DC 9V/2A or DC Wireless Output: 5W/7.5W/10W/15W		HUANTESTING

TEICATION

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Page 7 of 21 Report No.: HK2207062916-1E

2.2. Carrier Frequency of Channels

Operation I	Frequency each of channel	, LAK TESTING	- WAYTESTI	MAKTESTIN	- WAY TESTI
Channel	Frequency	O HO	(ii)	(a) 110	0
1	113KHz				

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

2.4. Test Mode

S. WAKT	EUT Mode	Description
(iii)		Cell load setting 15W
Charging	ANT 1	Cell load setting 10W
Charging	ı ANT 1	Cell load setting 7.5W
(G	ESTING	Cell load setting 5W

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2.5. Description of Test Setup

Operation of EUT during testing:

AC Plug — Adapter EUT Load

Adapter information

Model: HW-059200CHQ

Input: 100-240V, 50/60Hz, 0.5A

Output: 5VDC, 2A

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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2.6. Measurement Instruments List

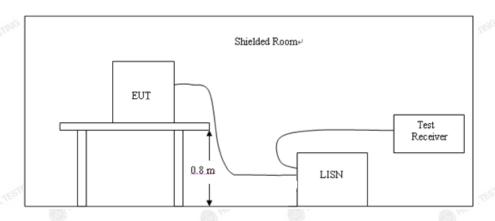
2.0. 1	vicasui ci i ci i i i i i i	unionio List				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 18, 2022	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	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 Schwarz		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	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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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)

F	M	aximum RF L	ine Voltage (d	BμV)	
Frequency (MHz)	CLAS	SS A	CLASS B		
(11112)	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

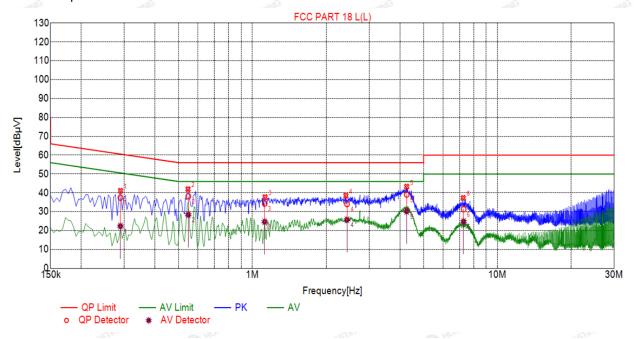
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3.4. Test Result

PASS

All the test modes completed for test. Only the worst result (ANT1) was reported as below:





Sus	Suspected List												
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµ√]	Margin [dB]	Reading [dBµV]	Detector	Туре					
1	0.2895	41.08	20.03	60.54	19.46	21.05	PK	L					
2	0.5460	41.95	20.06	56.00	14.05	21.89	PK	L					
3	1.1265	37.72	20.08	56.00	18.28	17.64	PK	L					
4	2.4090	38.50	20.18	56.00	17.50	18.32	PK	L					
5	4.2630	43.28	20.25	56.00	12.72	23.03	PK	L					
6	7.2555	37.29	20.18	60.00	22.71	17.11	PK	L					

X	Final Data List											
5	NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	QP Reading [dBµV]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	AV Reading [dBµV]	Туре
	1	0.2891	20.03	37.46	60.55	23.09	17.43	22.34	50.55	28.21	2.31	L
3	2	0.5472	20.06	38.17	56.00	17.83	18.11	28.37	46.00	17.63	8.31	L
	3	1.1221	20.08	34.39	56.00	21.61	14.31	24.65	46.00	21.35	4.57	L
	4	2.4324	20.18	34.07	56.00	21.93	13.89	25.73	46.00	20.27	5.55	L
	5	4.2651	20.25	39.10	56.00	16.90	18.85	30.19	46.00	15.81	9.94	L
8	6	7.2813	20.18	31.31	60.00	28.69	11.13	24.80	50.00	25.20	4.62	L

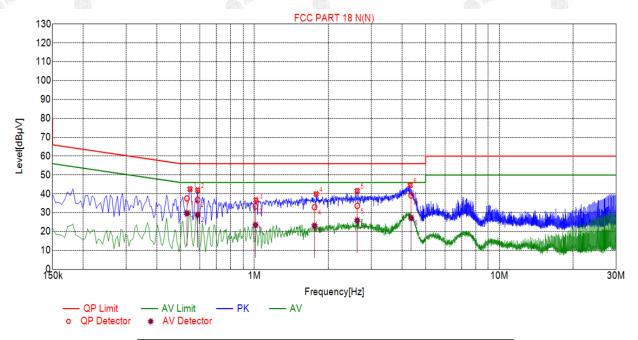
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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Test Specification: Neutral



Sus	Suspected List													
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре						
1	0.5460	42.49	20.06	56.00	13.51	22.43	PK	N						
2	0.5865	41.95	20.05	56.00	14.05	21.90	PK	N						
3	1.0140	36.68	20.06	56.00	19.32	16.62	PK	N						
4	1.7880	39.90	20.14	56.00	16.10	19.76	PK	N						
5	2.6295	41.62	20.21	56.00	14.38	21.41	PK	N						
6	4.3260	44.53	20.25	56.00	11.47	24.28	PK	N						

Final Data List												
ð	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]	ΑV Reading [dBμV]	Туре
	1	0.5304	20.04	37.60	56.00	18.40	17.56	29.66	46.00	16.34	9.62	N
	2	0.5860	20.05	36.83	56.00	19.17	16.78	28.87	46.00	17.13	8.82	N
(3	1.0100	20.06	33.37	56.00	22.63	13.31	23.45	46.00	22.55	3.39	N
	4	1.7595	20.14	32.92	56.00	23.08	12.78	23.07	46.00	22.93	2.93	N
	5	2.6291	20.21	33.64	56.00	22.36	13.43	25.87	46.00	20.13	5.66	N
	6	4.3665	20.25	39.08	56.00	16.92	18.83	27.18	46.00	18.82	6.93	N

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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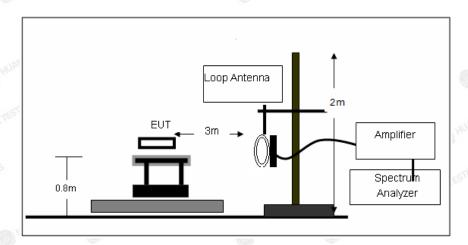
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

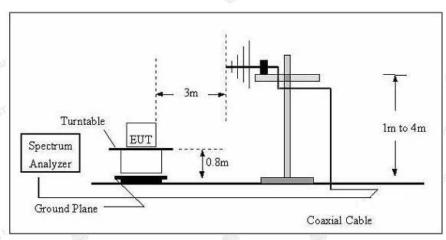
3/



4. RADIATED EMISSIONS

4.1. Block Diagram of Test Setup





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 ¹ 300	

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Page 14 of 21 Report No.: HK2207062916-1E

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 measurement are extrapolated to 300m and 30m distance respectively, by 40dB/decade, According to part 15.31(f)(2), 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

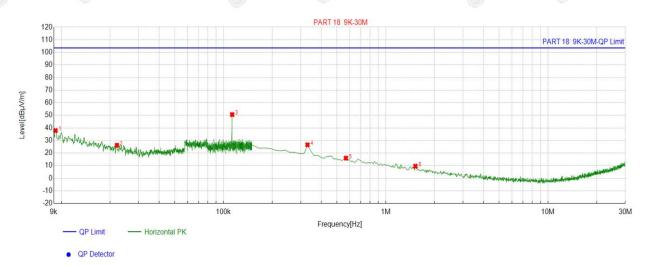
PASS

Note: All the test modes completed for test. Only the worst result (ANT1) was reported as below:

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For 9KHz - 30MHz



Suspe	Suspected List									
NO.	Freq.	Factor	Reading	Level	Limit	Margin				
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]				
1	0.0092	-13.41	51.24	37.83	103.50	65.67				
2	0.0220	-16.51	42.74	26.23	103.50	77.27				
3	0.1130	-17.20	67.79	50.59	103.50	52.91				
4	0.3292	-17.26	43.80	26.54	103.50	76.96				
5	0.5681	0.5681 -17.19		15.97	103.50	87.53				
6	1.5238 -16.14		25.70	9.56	103.50	93.94				

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

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For 30MHz-1GHz

Antenna polarity: H



			41. 1	41.4			- 41. 1			- 42 - 7
4	Suspe	cted List								
	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity
<	140.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	1 Clarity
	1	109.6196	-14.60	38.21	23.61	63.50	39.89	100	162	Horizontal
	2	210.6006	-14.25	42.88	28.63	63.50	34.87	100	358	Horizontal
3	3	275.6557	-12.25	40.90	28.65	63.50	34.85	100	331	Horizontal
	4	308.6687	-11.60	40.48	28.88	63.50	34.62	100	311	Horizontal
	5	401.8819	-9.12	35.03	25.91	63.50	37.59	100	134	Horizontal
	6	455 2853	-7 97	31.86	23.89	63.50	39.61	100	179	Horizontal

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

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Antenna polarity: V



and the same of						ADMIN V				
Suspected List										
	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Folarity
	1	67.8679	-15.10	48.10	33.00	63.50	30.50	100	110	Vertical
Ý	2	123.2132	-15.89	50.90	35.01	63.50	28.49	100	12	Vertical
	3	141.6617	-17.90	52.48	34.58	63.50	28.92	100	205	Vertical
	4	229.0490	-13.67	43.75	30.08	63.50	33.42	100	347	Vertical
3	5	314.4945	-11.47	40.25	28.78	63.50	34.72	100	43	Vertical
	6	402.8529	-9.11	38.29	29.18	63.50	34.32	100	336	Vertical

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

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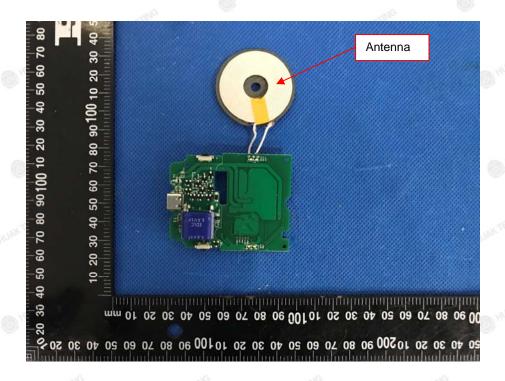
5. ANTENNA REQUIREMENT

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.

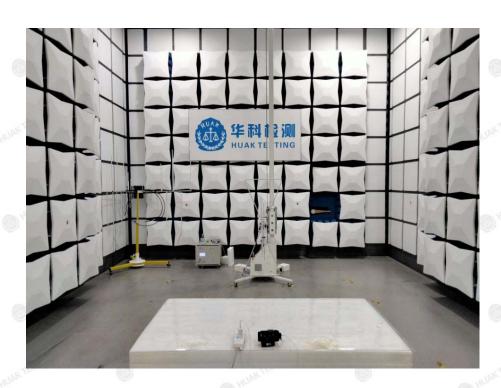


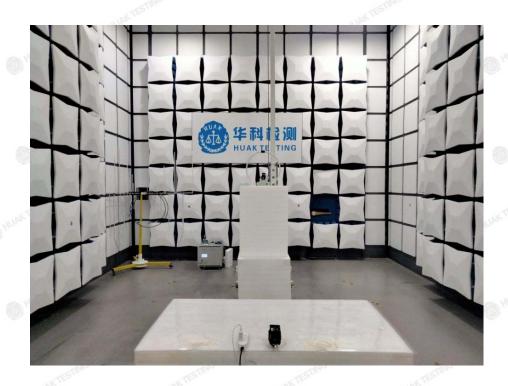
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6. PHOTOGRAPH OF TEST

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.

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