

FCC Test Report

Test Report On Behalf of Shenzhen Yiqizhao Technology Co.,Ltd. For **Magnetic Wireless Car Charger**

Model No.: A13

FCC ID: 2BC2X-A13

Shenzhen Yiqizhao Technology Co.,Ltd. Prepared For:

201,Floor 2,Building6,Yunli Intelligent Park,No.3, Changfa

MiddleRoad, YangmeiCommunity, BantianStreet, Shenzhen, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Aug. 26, 2024 ~ Sept. 03, 2024 **Date of Test:**

Sept. 03, 2024 **Date of Report:**

HK2408264919-1E **Report Number:**

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Test Result Certification

Applicant's Name.....: Shenzhen Yiqizhao Technology Co.,Ltd.

201, Floor 2, Building 6, Yunli Intelligent Park, No. 3, Changfa

Report No.: HK2408264919-1E

Address...... MiddleRoad, YangmeiCommunity, BantianStreet, Shenzhen,

China

Manufacturer's Name: Shenzhen Yiqizhao Technology Co.,Ltd.

310-313 Room 3 Floor A Building Baiwangda Intelligent Park,

Shenzhen, Guangdong, China

Product Description

Trade Mark: N/A

Product Name...... Magnetic Wireless Car Charger

Model and/or Type Reference: A13

Standards: FCC CFR 47 PART 18

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Date of Test

Date (s) of Performance of Tests Aug. 26, 2024 ~ Sept. 03, 2024

Date of Issue Sept. 03, 2024

Test Result..... Pass

Testing Engineer

Len Liao

Technical Manager

Sliver Wan

Authorized Signatory

Jason Www

Jason Zhou

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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Revision 1.0 Initial Test Report Release		Jason Zhou
ESTING	TING	-STING	S
WAKI	- WAK - WAK	THAT!	- HUAK

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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:	Magnetic Wireless	Car Charger	-alG	-miG
Model Name:	A13	HUAKTES	MAKTES	HUAKTES
Series Models:	N/A	9		(a)
Model Difference:	N/A	.alG	AKTESTING	, NG
Trade Mark:	N/A	- WAKTESTI	O HO.	WAKTESTI
FCC ID:	2BC2X-A13	0	TING	9)
Antenna Type:	Coil Antenna	a ne my	WAYTE	ang @
Antenna Gain:	0dBi	HUAKTESTA	"IAK TESTIME	HUAKTESTI
Operation Frequency:	112KHz~205KHz		(a)	
Test Frequency:	145KHz			
Number of Channels:	1 NESTING	W TESTING	A TESTING	W TESTING
Modulation Type:	ASK O	€ HUN	(a) HUND	O HUM
Power Source:	Input: DC5V/2A, D Output: 5W/7.5W/	0C9V/1.67A, DC12V 10W/15W	//1.5A	TESTING
Power Rating:	Input: DC5V/2A, D Output: 5W/7.5W/	0C9V/1.67A, DC12V 10W/15W	//1.5A	HING

Note:

- 1. The transfer system includes one coils, 1 coils can work individually or can work at the same time. All situations have been tested, only the worst situation was recorded in the report.
- 2. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 3. The cable loss data is obtained from the supplier.
- 4. The test results in the report only apply to the tested sample.



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2.2. Carrier Frequency of Channels

Operation F	requency each of channel	HUAKTE	HUAKTES	HUAKTE
Channel	Frequency		9	
Middle CH	145KHz			

2.3. Operation of EUT during Testing

Test Item	Test mode	Description
Radiated & Conducted Test	Mode 1	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <1%)
Cases	Mode 2	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <50%)
	Mode 3	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: >95%)

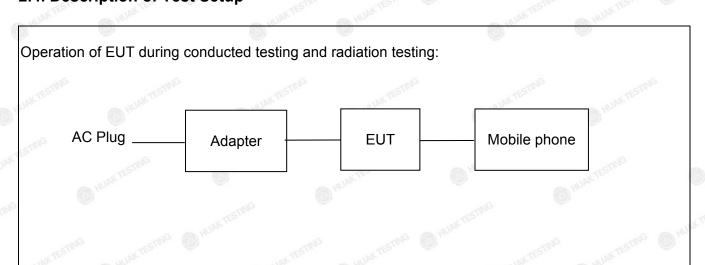
Note:

- 1. All modes and configurations above have been tested, Only the result of the worst case was recorded in the report, the worst-case configuration is Mode 1.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The Mobile Phone provided by Lab.
- 4. 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%.

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2.4. Description of Test Setup



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. 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.

		- A. W	- L. V	- 4
Equipment	Trade Mark	Model/Type No.	Specification	Note
Magnetic Wireless Car Charger		A13	N/A	EUT
HUAKTESTING (WAY TESTING	MAKTESTING ALLAKTESTING	Input: AC100-240V, 50/60Hz, 2A Max USB-C1 Output: DC5V/3A, 9V3A, 12V/3A, 15V/3A, 20V/5A, 28V/5A 140W MAX	HUAK TESTING
Adapter	N/A	CD289	USB-C2 Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A 100W MAX	Peripheral
MULAY TESTING	W TESTING	O HUAN TESTING	USB-A Output: DC5V/4.5A, 4.5V/5A, 5V/3A, 9V/2A, 12V/1.5A 22.5W MAX Total Output: 140W Max	HUAN TESTING
Mobile phone	Apple	iPhone 13	N/A	Peripheral
	V TESTING	0,,,	W TESTING	
/	lobile phone	lobile phone Apple	lobile phone Apple iPhone 13	

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. Wireless load (Load 1) is a device containing rechargeable batteries or capacity loads, connected via charging control circuit that receives power from a source via a coupling antenna.

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2.6. Measurement Instruments List

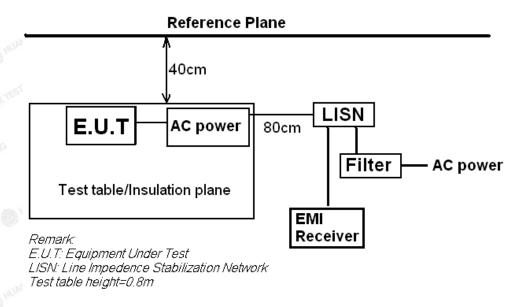
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 20, 2024	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 20, 2024	1 Year
3.	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 20, 2024	1 Year
4.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	1 Year
5.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	1 Year
6.	Preamplifier	Preamplifier EMCI EMC05184		HKE-006	Feb. 20, 2024	1 Year
7.	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	1 Year
8.	Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	1 Year
9.	6dB Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	1 Year
10.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	1 Year
11.	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	2 Year
12.	Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	2 Year
13.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	2 Year
14.	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	I NYTESTI	6 /
15.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	1 House	/
16.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 20, 2024	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)

F	Maximum RF Line Voltage (dΒμV)							
Frequency (MHz)	CLAS	SS A	C	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.

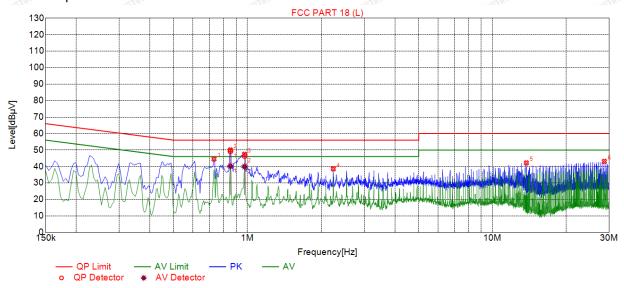
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3.4. Test Result

PASS

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





ő	Suspected List												
	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре				
	1	0.7305	44.55	19.86	56.00	11.45	24.69	PK	L				
)	2	0.8520	50.09	19.87	56.00	5.91	30.22	PK	L				
	3	0.9735	47.44	19.87	56.00	8.56	27.57	PK	L				
	4	2.2425	38.57	20.00	56.00	17.43	18.57	PK	L				
	5	13.7715	42.19	19.82	60.00	17.81	22.37	PK	L				
.qg.	6	28.6575	43.13	20.23	60.00	16.87	22.90	PK	L				

Final	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]	Туре	
1	0.8520	19.87	49.21	56.00	6.79	29.34	40.13	46.00	5.87	20.26	L	
2	0.9735	19.87	46.35	56.00	9.65	26.48	39.91	46.00	6.09	20.04	L	

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

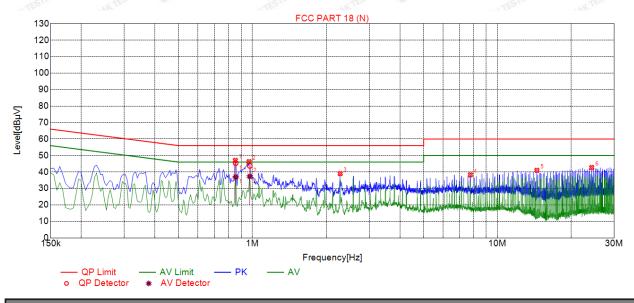
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Sus	Suspected List												
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре					
1	0.8520	47.04	19.74	56.00	8.98	27.30	PK	N					
2	0.9690	46.31	19.74	56.00	9.69	26.57	PK	N					
3	2.2830	39.03	19.88	56.00	16.97	19.15	PK	N					
4	7.7640	38.28	19.94	60.00	21.72	18.34	PK	N					
5	14.5050	40.99	19.79	60.00	19.01	21.20	PK	N					
6	24.2745	42.74	20.21	60.00	17.26	22.53	PK	N					

į	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]	ΑV Reading [dBμV]	Туре
Т	1	0.8539	19.74	45.35	56.00	10.65	25.61	36.91	46.00	9.09	17.17	N
	2	0.9755	19.74	43.70	56.00	12.30	23.96	37.28	46.00	8.72	17.54	N

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

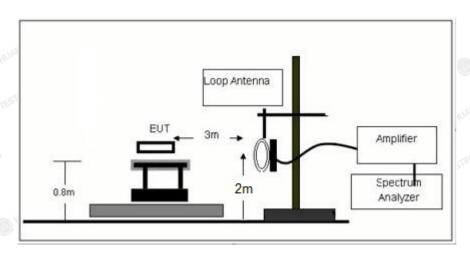
Level=Test receiver reading + correction factor

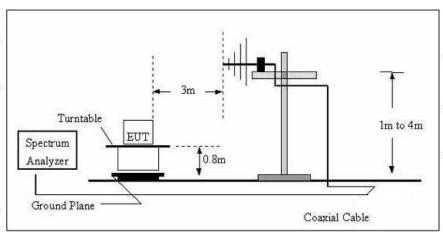
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4. Radiated Emissions

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:

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	

Remark:

- (1) Emission level dBuV/m for $0.009\sim30$ MHz = $20\log(15) + 40\log(300/3)$ 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.

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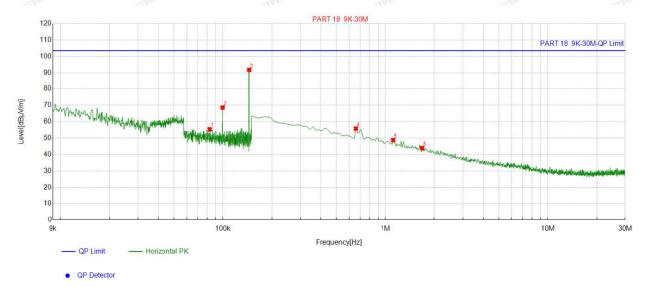


4.4. Test Result

PASS

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

For 9KHz - 30MHz



3	Suspe	suspected List										
3	NO.	Freq.	Factor	Reading	Level	Limit	Margin					
		[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]					
80	1	0.082991	20.73	34.64	55.37	103.50	48.13					
	2	0.099567	20.46	48.13	68.59	103.50	34.91					
	3	0.144921	20.42	71.65	92.07	103.50	11.43					
Ý	4	0.657704	20.25	35.56	55.81	103.50	47.69					
	5	1.12061	20.48	28.28	48.76	103.50	54.74					
3	6	1.688044	20.51	23.44	43.95	103.50	59.55					

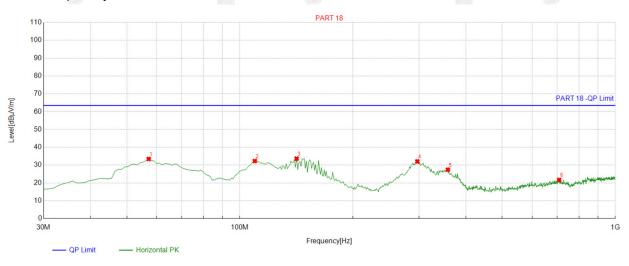
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

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For 30MHz-1GHz

Antenna polarity: H



QP Detector

Suspected List										
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	57.187187	-13.76	47.19	33.43	63.50	30.07	100	219	Horizontal	
2	109.61962	-14.22	46.51	32.29	63.50	31.21	100	1	Horizontal	
3	141.66166	-18.38	52.01	33.63	63.50	29.87	100	183	Horizontal	
4	297.01701	-11.84	43.92	32.08	63.50	31.42	100	62	Horizontal	
5	358.18818	-10.00	37.43	27.43	63.50	36.07	100	56	Horizontal	
6	708.70870	-4.06	25.78	21.72	63.50	41.78	100	114	Horizontal	

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

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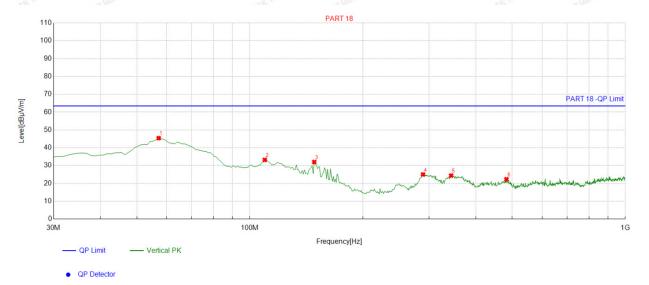
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

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





Antenna polarity: V



S	Suspe	pected List									
Ą		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
<	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
	1	57.187187	-13.76	59.16	45.40	63.50	18.10	100	127	Vertical	
	2	109.61962	-14.22	47.42	33.20	63.50	30.30	100	344	Vertical	
3	3	148.45845	-18.14	50.15	32.01	63.50	31.49	100	359	Vertical	
	4	289.24924	-12.10	37.12	25.02	63.50	38.48	100	130	Vertical	
	5	343.62362	-10.19	34.57	24.38	63.50	39.12	100	310	Vertical	
	6	482.47247	-8.11	30.45	22.34	63.50	41.16	100	333	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.

Antenna

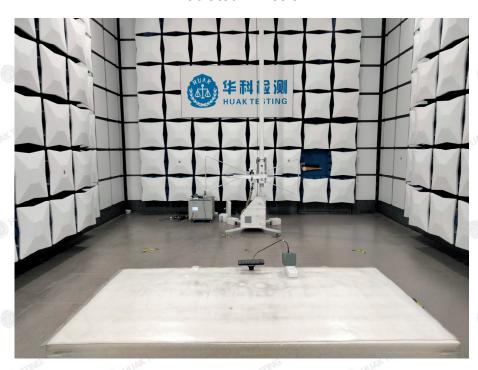
Ant

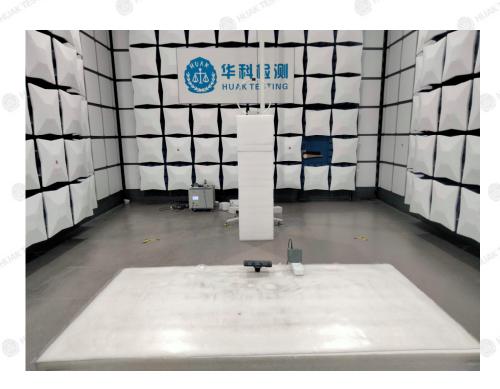
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6. Photographs of Test

Radiated Emission





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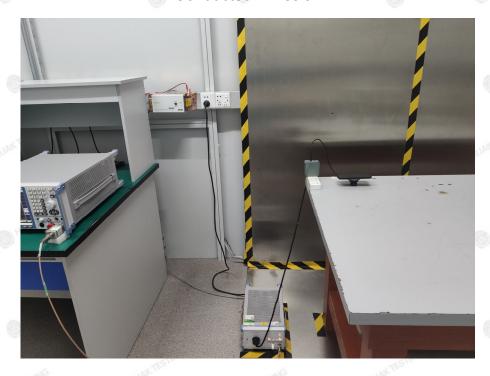
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Conducted Emission



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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-----

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