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FCC Test Report

Test Report On Behalf of Shenzhen Xiangdangwen Technology Co.,Ltd. For Lisen Pencil 2nd Model No.: 2E536

FCC ID: 2AW73-2E536

Prepared For:

Shenzhen Xiangdangwen Technology Co.,Ltd.

106, 1/F, No.313-4 Building, Huachang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, 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. 25, 2023 ~ Aug. 02, 2023

 Date of Report:
 Aug. 02, 2023

 Report Number:
 HK2307253250-1E

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Report No.: HK2307253250-1E

Test Result Certification

Applicant's Name	Shenzhen Xiangdangwen Technology Co.,Ltd.
Address:	106, 1/F, No.313-4 Building, Huachang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China
Manufacture's Name:	Huizhou Yimai Electronics Technology Co., Ltd.
Address	3rd Floor, Building B, Huakai High-tech Industrial Park, Electronic City Road, Longxi Street, Boluo Country, China
Product Description	
Trade Mark	LISEN, AINOPE, VEICO
TES	TESI

Product Name:	Lisen Pencil 2nd		
Model and/or Type Reference:	2E536		
Standards	FCC CFR 47 PART 18		

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Date of Test	
Date (s) of Performance of Tests	Jul. 25, 2023 ~ Aug. 02, 2023
Date of Issue	Aug. 02, 2023
Test Result	Pass

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory :

(Jason Zhou)

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HUAK TESTING

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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Aug. 02, 2023	Jason Zhou
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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
Radiated emission expanded uncertainty(9kHz-30MHz)
Radiated emission expanded uncertainty(30MHz-1000MHz)
Radiated emission expanded uncertainty(Above 1GHz)

=	2.71dB, k=2
=	3.90dB, k=2
=	3.90dB, k=2
=	3.90dB, k=2

= 4.28dB, k=2

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2. General Information

2.1. General Description of EUT

Equipment:	Lisen Pencil 2nd	June June
Model Name:	2E536	HUAKTEST
Series Models:	N/A	
Model Difference:	N/A MACESTING	A TESTING
Trade Mark:	LISEN, AINOPE, VEICO	HUAKTEST
FCC ID:	2AW73-2E536	36
Antenna Type:	Coil Antenna	200
Antenna Gain:	0dBi	- WHATTESTIC
Operation Frequency:	112KHz~205KHz	0. V
Test Frequency:	128KHz	
Number of Channels:	1 «KITESTING	W TESTING
Modulation Type:	ASK	How How
D 0	Input: DC 5V From Type-C	-STING
Power Source:	Wireless Output: 0.35W	WTESTING
Dowor Doting	Input: DC 5V From Type-C	C. OHON
Power Rating:	Wireless Output: 0.35W	112

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2.2. Carrier Frequency of Channels

Operation	Frequency each of channel	HUAKIL	HUAKTES	HUAKTL
Channel	Frequency			
1	128KHz			
ang	106 100	-nG	TNG	

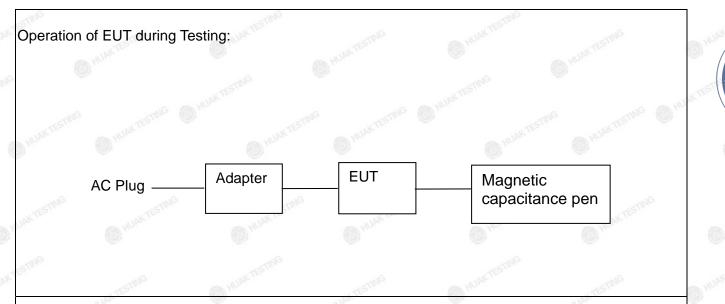
2.3. Operation of EUT during Testing

Operating Mode

The mode is used: Transmitting mode

EUT Mode	Description
G HUNKTEST	Full Load
Working	Half Load
	No Load

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.

Item	Equipment	Trade Mark	Model/Type No.	Specification		
1	Lisen Pencil 2nd	LISEN,		N/A	EUT	
2	Magnetic capacitance pen	N/A	К3	Wireless input:0.35W	Accessory	
3 5511	STING HUAK TESTING		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	
4	USB Cable	N/A	N/A	Length: 1.0m	Peripheral	
9	Ŵ				D.	
CTIN	TING		TING	CTING CTING	TING	

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.

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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. 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

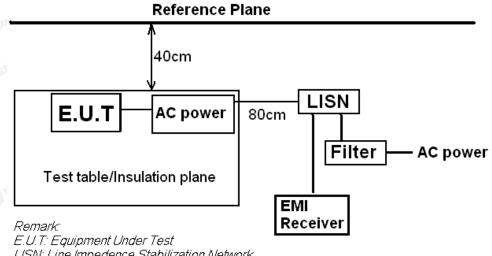
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3. Conducted Emission Test

3.1. Block Diagram of Test Setup



LISN: Line Impedence Stabilization Network Test table height=0.8m

According to FCC Part 18.307(b)

3.2. Conducted Power Line Emission Limit

Maximum RF Line Voltage (dBµV) Frequency **CLASS A CLASS B** (MHz) 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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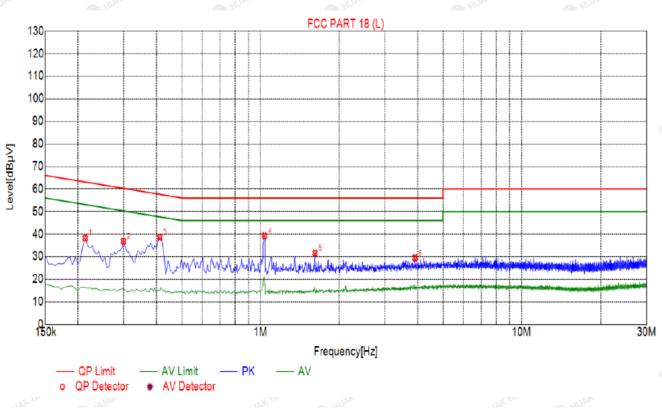
Report No.: HK2307253250-1E

3.4. Test Result

PASS

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

Test Specification: Line



2	Suspected List								
8	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
<	1	0.2130	38.23	20.05	63.23	25.00	18.18	PK	L
	2	0.2985	36.81	20.04	60.33	23.52	16.77	PK	L
þ.	3	0.4110	38.56	20.03	57.67	19.11	18.53	PK	L
	4	1.0365	39.20	20.07	56.00	16.80	19.13	PK	L
8	5	1.6170	31.63	20.11	56.00	24.37	11.52	PK	L
8	6	3.9075	29.50	20.25	56.00	26.50	9.25	PK	L

Remark: Margin = Limit – Level

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

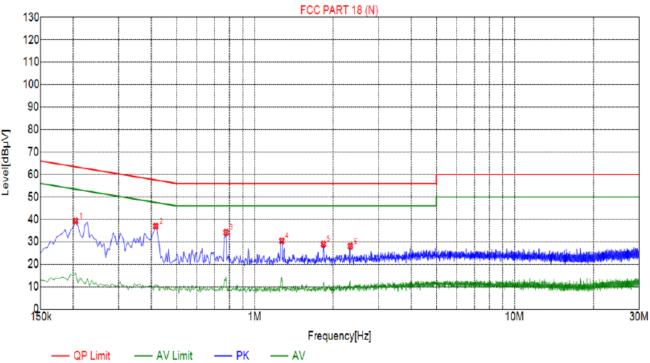
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AFICATION.

Test Specification: Neutral



0 (QP	Detector	*	AV De	etector	

	Sus	spected	l List						
2	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
8	1	0.2040	39.23	20.04	<mark>63.51</mark>	24.28	19.19	PK	Ν
	2	0.4155	36.93	20.03	57.60	20.67	16.90	PK	Ν
3	3	0.7755	34.17	20.05	56.00	21.83	14.12	PK	Ν
	4	1.2705	30.42	20.09	56.00	25.58	10.33	PK	Ν
3	5	1.8375	28.97	20.14	56.00	27.03	8.83	PK	Ν
	6	2.3325	28.01	20.18	56.00	27.99	7.83	PK	Ν

Remark: Margin = Limit – Level

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

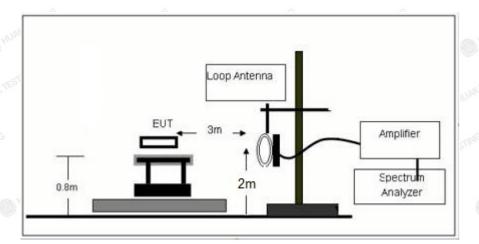
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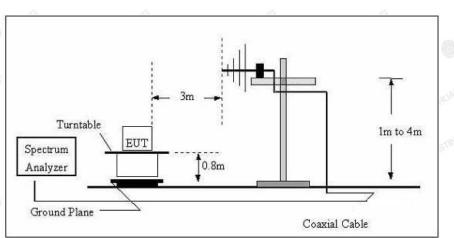
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4. Radiated Emissions

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:

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 0.009~30MHz = 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.

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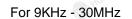


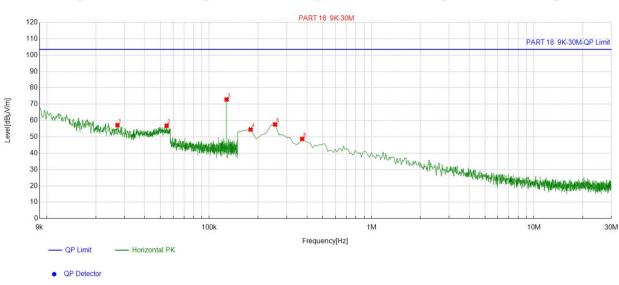
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4.4. Test Result

PASS

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





Suspe	Suspected List										
	Freq.	Factor	Reading	Level	Limit	Margin					
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]					
1	0.027198	14.69	42.52	57.21	103.50	46.29					
2	0.054636	13.94	42.90	56.84	103.50	46.66					
3	0.127922	13.78	59.11	72.89	103.50	30.61					
4	0.179865	13.70	40.80	54.50	103.50	49.00					
5	0.254527	13.68	43.90	57.58	103.50	45.92					
6	0.373987	13.76	35.00	48.76	103.50	54.74					

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

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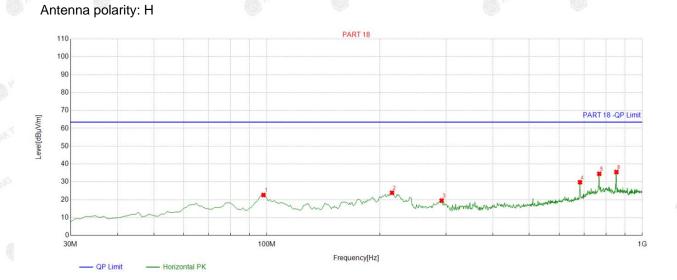


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For 30MHz-1GHz

QP Detector



The		TIM		athe	TIM		Thu		TIM	
Suspected List										
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	97.967968	-15.83	38.48	22.65	63.50	40.85	100	150	Horizontal	
2	215.45545	-14.42	38.32	23.90	63.50	39.60	100	226	Horizontal	
3	292.16216	-12.24	31.79	19.55	63.50	43.95	100	288	Horizontal	
4	682.49249	-4.01	33.83	29.82	63.50	33.68	100	355	Horizontal	
5	767.93793	-2.44	36.97	34.53	63.50	28.97	100	350	Horizontal	
6	853.38338	-1.20	36.74	35.54	63.50	27.96	100	192	Horizontal	

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

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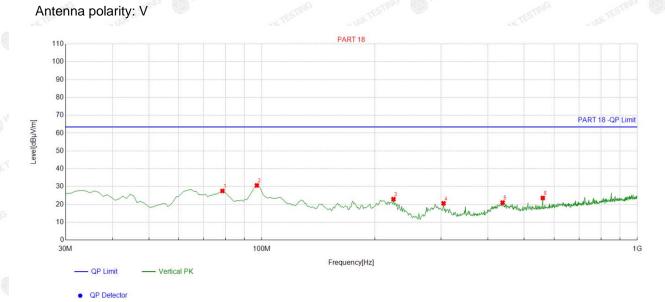


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Suspected List										
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]		
1	78.548549	-17.29	44.86	27.57	63.50	35.93	100	125	Vertical	
2	96.996997	-15.95	46.62	30.67	63.50	32.83	100	178	Vertical	
3	224.19419	-14.05	37.02	22.97	63.50	40.53	100	158	Vertical	
4	304.78478	-11.92	32.53	20.61	63.50	42.89	100	216	Vertical	
5	437.80780	-8.33	29.37	21.04	63.50	42.46	100	246	Vertical	
6	560.15015	-6.00	29.64	23.64	63.50	39.86	100	144	Vertical	

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

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5. Antenna Requirement

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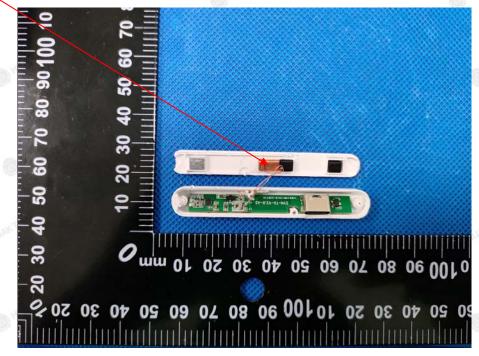
Refer to statement below for compliance.

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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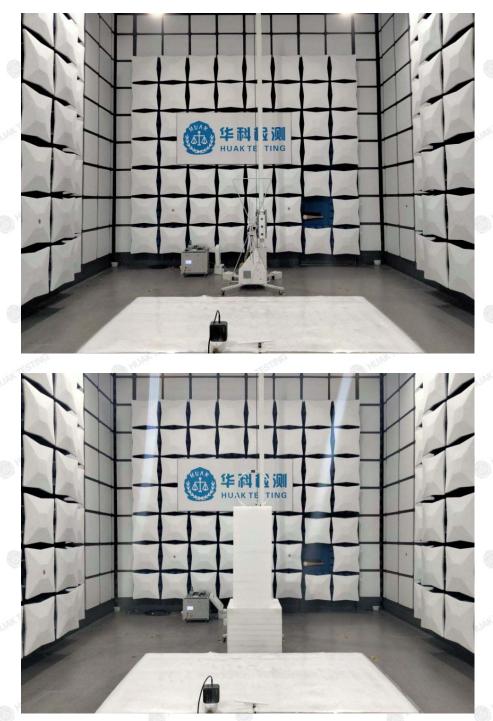
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6. Photograph of Test

512

Radiated Emission



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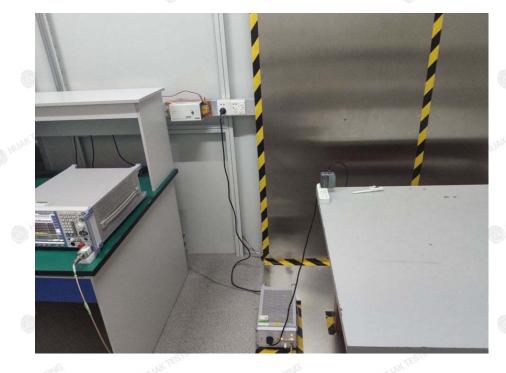
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Conducted Emission



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CAT.

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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