# TEST REPORT

### For FCC Part15B

Report No. ....: Report verification: CHTW24010059

Project No. ....: SHT2401001702W

FCC ID.....:: 2ASWW-GT50

Applicant's name.....: XINCHUANGXIN INTERNATIONAL CO. LTD

Address....: ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA

YUEN STREET MONGKOK KL

Product Name .....: Feature phone

Trade Mark ..... CORN

Model No. ....: GT50

Listed Model(s) .....

FCC CFR Title 47 Part 15 Subpart B Standard .....:

Date of receipt of test sample....: Jan. 03, 2024

Date of testing..... Jan. 04, 2024- Jan. 19, 2024

Date of issue.....: Jan. 23, 2024

Result.....: **Pass** 

Compiled by

(position+printed name+signature)...: File administrators Xiaodong Zhao

Supervised by

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Approved by

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Testing Laboratory Name .....: Shenzhen Huatongwei International Inspection Co., Ltd.

Address.....: Building 7, Baiwang Idea Factory, No.1051, Songbai Road,

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Shenzhen, Guangdong, China

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The test report merely corresponds to the test sample.

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## 1. TEST STANDARDS AND REPORT VERSION

#### 1.1. Test Standards

The tests were performed according to following standards:

FCC CFR Title 47 Part 15 Subpart B - Unintentional Radiators

<u>ANSI C63.4: 2014</u> – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

### 1.2. Report version information

Revision No.	Date of issue	Description		
N/A	2024-01-23	Original		

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# 2. TEST DESCRIPTION

Section	Test Item	Test Item Section in CFR 47		Test Engineer	
5.1	Conducted Emissions 15.107(a) PASS		PASS	Junman Wang	
5.2	Radiated Emissions	15.109(a)	PASS	Yifan Wang	

Note:

#1: The test result does not include measurement uncertainty value

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# 3. **SUMMARY**

### 3.1. Client Information

Applicant:	XINCHUANGXIN INTERNATIONAL CO. LTD		
Address:	ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL		
Manufacturer:	Shenzhen Chiteng Technology Co.,LTD		
Address:	Second Floor,Area A, Building 4, Huiye Technology Workshop, Guanguang Road, Tangjia Community, Gongming Street, Guangming New District, Shenzhen, Guangdong		

## 3.2. Product Description

Main unit information:				
Product Name:	Feature phone			
Trade Mark:	CORN			
Model No.:	GT50			
Listed Model(s):	-			
Power supply:	DC 3.7V from Li-ion Battery			
Hardware version:	ZS621TF_MB_V1.0			
Software version:	ZS621TF_48X128_240320_B28403TF_GT50_4G_CORN_EnFrPoSp_V01			
Accessory unit information:				
	BL-19A Voltage: 3.7V			
Battery information:	Capacity: 1800mAh			
	3.7V Li-ion BATTERY 6.66Wh			
Adaptor information:	Input: AC100-240Vac 50/60Hz 150mA			
Adapter information:	Output: DC 5.2V, 500mA			

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# 3.3. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.			
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China			
	Tel: 86-755-26715499			
Contact information:	E-mail: cs@szhtw.com.cn			
	http://www.szhtw.com.cn			
	Type Accreditation Numb			
Qualifications:	FCC Registration Number 762235			
	FCC Designation Number CN1181			

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## 4. TEST CONFIGURATION

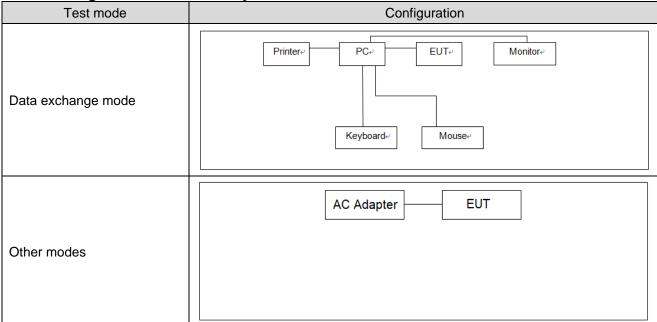
## 4.1. Descriptions of test mode

Test mode	Description		
Camera recording mode	Keep the EUT in Camera recording status		
Video Playing mode	Keep the EUT in Video Playing status		
Data exchange mode	Keep the EUT in Data exchange with PC status		

Pre-scan above all test mode, found below test mode which it was worse case mode, so only show the test data for worse case mode on the test report

Test Item	Test mode for worse case
Conducted Emissions	Camera recording mode
Radiated Emissions	Data exchange mode

4.2. Configuration of Tested System



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### 4.3. Support unit used in test configuration

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?							
✓	Yes						
Item	Equipment	Trade Name	Model No.				
1	PC	DELL	OptiPlex 3020 MT				
2	Monitor	DELL	E1912Hf				
3	Keyboard	DELL	SK8115				
4	Mouse	DELL	MS111-T				
5	Printer	EPSON	L101				

#### 4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

### 4.5. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty	
1	AC Conducted Emission	3.21dB	
2	Radiated Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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# 4.6. Equipments Used during the Test

•	Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2023/8/22	2024/8/21	
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2023/8/18	2024/8/17	
•	Protection Network	SCHWARZBECK	HTWE0567	VTSD9561FN	00899	2023/8/18	2024/8/17	
•	ISN	FCC	HTWE0148	FCC-TLISN-T2- 02	20371	2023/8/18	2024/8/17	
•	ISN	FCC	HTWE0150	FCC-TLISN-T8- 02	20375	2023/8/18	2024/8/17	
•	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A	

•	Radiated Emission - 30MHz~1GHz										
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)				
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2023/4/6	2026/4/5				
•	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2023/8/22	2024/8/21				
•	Ultra-Broadband Antenna	SCHWARZBEC K	HTWE0119	VULB9163	546	2023/2/22	2026/2/21				
•	Pre-Amplifer	SCHWARZBEC K	HTWE0295	BBV 9742	/	2023/5/25	2024/5/24				
•	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A				

•	Radiated emission-Above 1GHz										
Used	Test Equipment	Manufacturer	Equipment No.	uipment No. Model No.		Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)				
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2023/4/17	2026/4/16				
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2023/8/22	2024/8/21				
•	Horn Antenna	SCHWARZBE CK	HTWE0126	BBHA 9120D	1011	2023/2/14	2026/2/13				
•	Horn Antenna	SCHWARZBE CK	HTWE0103	BBHA9170	BBHA9170472	2023/2/20	2026/2/19				
•	Broadband Pre- amplifier	SCHWARZBE CK	HTWE0201	BBV 9718	9718-248	2023/5/25	2024/5/24				
•	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A				

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### 5. TEST CONDITIONS AND RESULTS

#### 5.1. Conducted Emissions

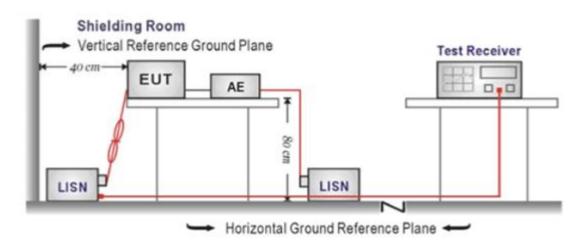
#### **LIMIT**

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

Frequency range (MHz)	Limit (d	lBuV)	
Frequency range (Min2)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

<sup>\*</sup> Decreases with the logarithm of the frequency.

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

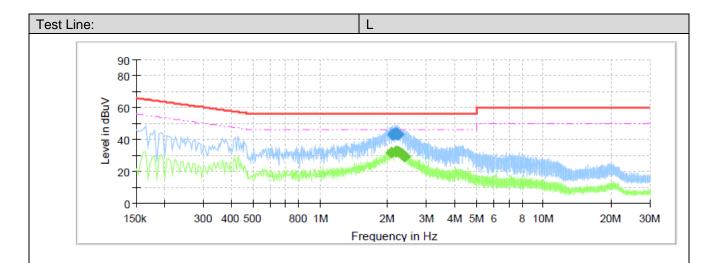
- 1. The EUT was setup according to ANSI C63.4:2014
- 2. The EUT was placed on a plat form of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50ohm / 50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor,was individually connected through a LISN to the input power source.
- The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

#### **TEST MODE:**

Please refer to the clause 3.3

#### **TEST RESULTS**

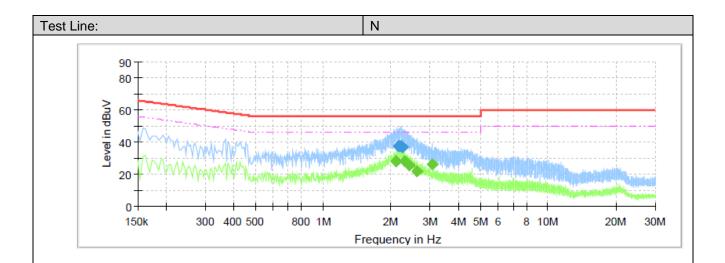
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### Final Result

I IIIai_ixesuit									
Frequency	QuasiPeak	CAverage	Limit	Margin	Line	Corr.			
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)		(dB)			
2.0915		31.78	46.00	14.22	L1	11.0			
2.1075	43.02	-	56.00	12.98	L1	11.0			
2.1275	43.25	I	56.00	12.75	L1	11.0			
2.1675	43.64	I	56.00	12.36	L1	11.0			
2.1795		32.62	46.00	13.38	L1	11.0			
2.1845	43.51		56.00	12.49	L1	11.0			
2.2045	43.48	I	56.00	12.52	L1	11.0			
2.2355		32.56	46.00	13.44	L1	11.0			
2.2355	43.17		56.00	12.83	L1	11.0			
2.3035		31.50	46.00	14.50	L1	11.0			
2.3355		30.93	46.00	15.07	L1	11.0			
2.3955		29.40	46.00	16.60	L1	11.0			

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## Final Result

I IIIai_IXES	uit					
Frequency	QuasiPeak	CAverage	Limit	Margin	Line	Corr.
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)		(dB)
2.0995		28.11	46.00	17.89	N	10.8
2.1075		28.33	46.00	17.67	N	10.8
2.1525	37.47		56.00	18.53	N	10.8
2.1795	37.56		56.00	18.44	N	10.8
2.2125	37.42		56.00	18.58	N	10.8
2.2235	37.43		56.00	18.57	N	10.8
2.2395	37.31		56.00	18.69	N	10.8
2.2675	36.88		56.00	19.12	N	10.8
2.2955		27.86	46.00	18.14	N	10.8
2.4195		25.48	46.00	20.52	N	10.8
2.6195		21.71	46.00	24.29	N	10.8
3.0515		26.06	46.00	19.94	N	10.8

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#### 5.2. Radiated Emissions

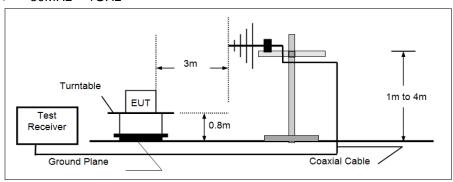
#### LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109

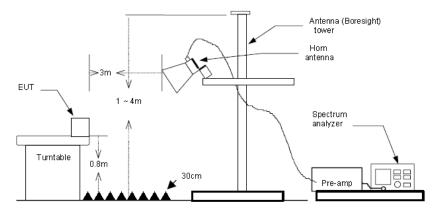
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above 10112	74.00	Peak

#### **TEST CONFIGURATION**

#### ➢ 30MHz ~ 1GHz



#### Above 1GHz



#### **TEST PROCEDURE**

- 1. The EUT was tested according to ANSI C63.4:2014.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground.
- 3. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 4. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 5. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
- 6. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1GHz,
    - RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, theemission measurement will be repeated using the quasi-peak detector and reported.
  - (3) From 1GHz to 5th harmonic, RBW=1MHz, VBW=3MHz

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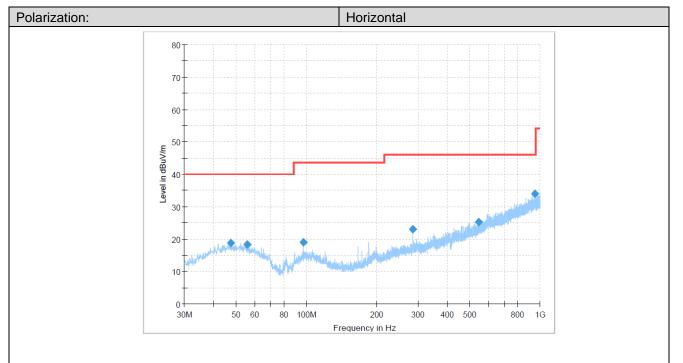
### **TEST MODE:**

Please refer to the clause 3.3

### **TEST RESULTS**

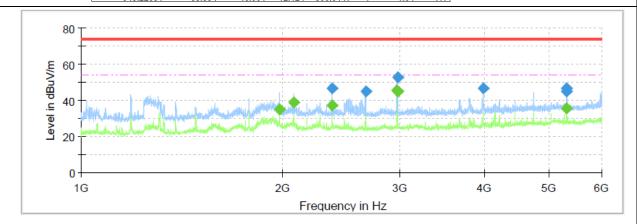
Note: Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor The emission levels of frequency above 6GHz are very lower than limit and not show in test report.

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#### Final Result

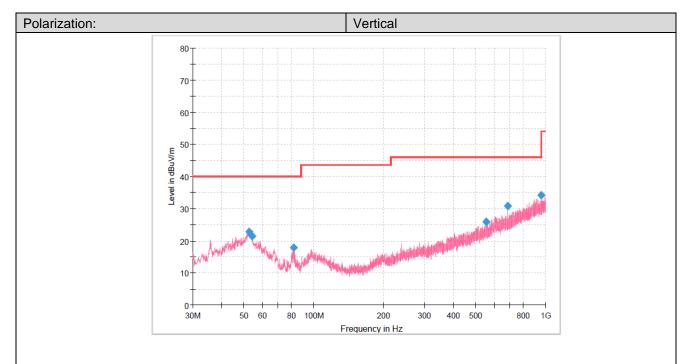
i iliai_i\c3	uit						
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47,3388		40.00	21.16	300.0	н	201.0	-8.8
55.7050		40.00	21.60	300.0		74.0	-9.1
96.9300		43.50	24.43	100.0		196.0	-11.2
284.6250		46.00	23.04	100.0		189.0	-7.8
547.1313		46.00	20.73	300.0		193.0	-1.0
948.2263	33.88	46.00	12.12	300.0	Н	1.0	7.1



## Final Result

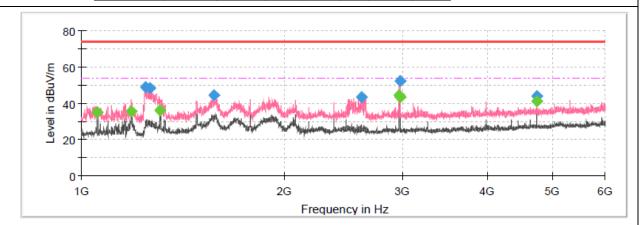
Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)		(deg)	(dB/m)
1978.1250		35.00	54.00	19.00	150.0	Н	222.0	-12.3
2076.8750	I	39.08	54.00	14.92	150.0	Н	213.0	-11.2
2373.7500	46.47	-	74.00	27.53	150.0	Н	123.0	-10.0
2373.7500		37.40	54.00	16.60	150.0	Н	123.0	-10.0
2665.6250	45.13	1	74.00	28.87	150.0	Н	51.0	-9.8
2966.8750	I	45.64	54.00	8.36	150.0	Н	204.0	-8.5
2972.5000	52.86	-	74.00	21.14	150.0	Н	204.0	-8.4
2973.7500		45.09	54.00	8.91	150.0	Н	195.0	-8.4
3991.8750	46.40		74.00	27.60	150.0	Н	343.0	-6.1
5314.3750	46.48	1	74.00	27.52	150.0	Н	33.0	-3.2
5314.3750	-	35.40	54.00	18.60	150.0	Н	33.0	-3.2
5327.5000	44.85	-	74.00	29.15	150.0	Н	260.0	-3.2

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### Final Result

Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(cm)		(deg)	(dB/m)
52.4313	22.77	40.00	17.23	100.0	V	260.0	-8.9
54.2500	21.45	40.00	18.55	100.0	V	134.0	-9.1
81.6525	17.82	40.00	22.18	100.0	V	356.0	-15.5
554.6488	25.93	46.00	20.07	100.0	٧	359.0	-0.8
687.5388	30.94	46.00	15.06	100.0	V	22.0	2.1
954.8950	34.13	46.00	11.87	100.0	V	221.0	7.3



# Final\_Result

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)		(deg)	(dB/m)
1055.6250		34.85	54.00	19.15	150.0	V	229.0	-14.7
1186.8750	-	35.49	54.00	18.51	150.0	V	137.0	-14.0
1245.0000	48.69	1	74.00	25.31	150.0	V	137.0	-13.5
1264.3750	48.29	-	74.00	25.71	150.0	V	137.0	-13.4
1307.5000		35.88	54.00	18.12	150.0	V	209.0	-13.1
1573.7500	44.54		74.00	29.46	150.0	V	118.0	-13.6
2606.8750	43.52		74.00	30.48	150.0	V	173.0	-9.9
2966.2500		44.68	54.00	9.32	150.0	V	137.0	-8.5
2972.5000	52.03		74.00	21.97	150.0	٧	200.0	-8.4
2973.7500		43.10	54.00	10.90	150.0	V	137.0	-8.4
4747.5000	43.93		74.00	30.07	150.0	V	200.0	-4.1
4747.5000		40.95	54.00	13.05	150.0	V	200.0	-4.1

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# 6. TEST SETUP PHOTOS OF THE EUT

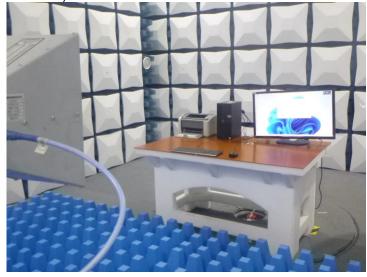
Conducted Emissions (AC Mains)



Radiated Emissions (30MHz-1GHz)



Radiated Emissions (Above 1GHz)



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## 7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Refer to the test report No.: CHTW24010055

-----End of Report-----