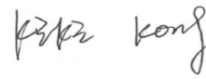
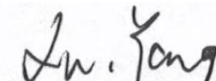


TEST REPORT

For FCC Part15B

Report No..... :	CHTW25120136	 CHTW25120136
Project No :	SHT2510024301W	
FCC ID :	2A3NOTE103	
Applicant's name :	ZHENGZHOU YSAIR TECHNOLOGY CO.,LTD	
Address..... :	Room 2101, 21st Floor of B Block, Silicon Valley Plaza, 82 Culture Street,Jinshui District,Zhengzhou City,Henan Province, China	
Product Name..... :	Hearing Aids	
Trade Mark..... :	RETEKESS	
Model No..... :	TE103	
Listed Model(s) :	-	
Standard :	FCC CFR Title 47 Part 15 Subpart B	
Date of receipt of test sample.....:	2025/10/27	
Date of testing.....:	2025/10/27- 2025/12/30	
Date of issue.....:	2025/12/31	
Result.....:	Pass	

Compiled by (Position+Printed name+Signature) :	File administrator	Xiaodong Zhao	
Supervised by (Position+Printed name+Signature) :	Project Engineer	Kiki Kong	
Approved by (Position+Printed name+Signature) :	RF Manager	Xu Yang	

Testing Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.
Address..... :	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China

Test Report Form No. :	R0066
Test Report Form(s) Originator	Shenzhen Huatongwei International Inspection Co., Ltd.
Master TRF	Dated 2025-07

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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

[ANSI C63.4: 2014](#) – 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	2025-12-31	Original

2. TEST DESCRIPTION

Section	Test Item	Section in CFR 47	Result ^{#1}	Test Engineer
5.1	Conducted Emissions	15.107(a)	PASS	JUNXU.LIN
5.2	Radiated Emissions	15.109(a)	PASS	JUNMAN.WANG

Note:

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

3. SUMMARY

3.1. Client Information

Applicant:	ZHENGZHOU YSAIR TECHNOLOGY CO.,LTD
Address:	Room 2101, 21st Floor of B Block, Silicon Valley Plaza, 82 Culture Street, Jinshui District, Zhengzhou City, Henan Province, China
Manufacturer:	HONG KONG RETEKESS CO.,LIMITED
Address:	FLAT/RM 1019B 10/F LIVEN HOUSE NO.61-63 KING YIP STREET KWUN TONG KL
Factory:	XIAMEN NEWSOUND TECHNOLOGY CO.LTD
Address:	No. 13, Xiangyue Road, Industrial Zone, Torch High-tech Zone (Xiang'an), Xiamen, Fujian Province

3.2. Product Description

Main unit information:	
Product Name:	Hearing Aids
Trade Mark:	RETEKESS
Model No.:	TE103
Listed Model(s):	-
Power supply:	DC 3.6V from Battery
Hardware version:	V3.1
Software version:	V1.0

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	
Connect information:	Tel: 400-963-0755 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC Registration Number	762235
	FCC Designation Number	CN1181

4. TEST CONFIGURATION

4.1. Descriptions of test mode

Test mode O1	Charging
Test mode O2	Working

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	Test mode O1
Radiated Emissions	Test mode O2

4.2. 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	Adapter	-	HW-050200C01

4.3. 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

4.4. 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.

4.5. Equipments Used during the Test

● EMC Test Software					
Used	Test Item	Software Name	Manufacturer	Equipment No.	Version
●	Conducted Emission	EMC32	R&S	HTWER012	V10.60.20
●	Radiated Emission	EMC32	R&S	HTWER012	V10.60.20
●	Radiated Spurious Emission	E3	AUDIX	HTWER006	V6.110407a

● 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	2025/8/6	2026/8/5
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2025/8/6	2026/8/5
●	Protection Network	SCHWARZBECK	HTWE0567	VTSD9561FN	00899	2025/8/6	2026/8/5
●	ISN	FCC	HTWE0148	FCC-TLISN-T2-02	20371	2025/8/6	2026/8/5
●	ISN	FCC	HTWE0150	FCC-TLISN-T8-02	20375	2025/8/6	2026/8/5

● 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	2025/8/6	2026/8/5
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2023/2/22	2026/2/21
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	/	2025/5/26	2026/5/25
●	CMAD	SCHWARZBECK	HTWE0537	CMAD1614	1614-530	2025/8/4	2026/8/3

● Radiated emission-Above 1GHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Full-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11122	2023/4/17	2026/4/16
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2025/8/6	2026/8/5
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/2/14	2026/2/13
●	Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2023/2/20	2026/2/19
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0551	SCU18F	100855	2025/5/26	2026/5/25

5. TEST CONDITIONS AND RESULTS

5.1. Conducted Emissions

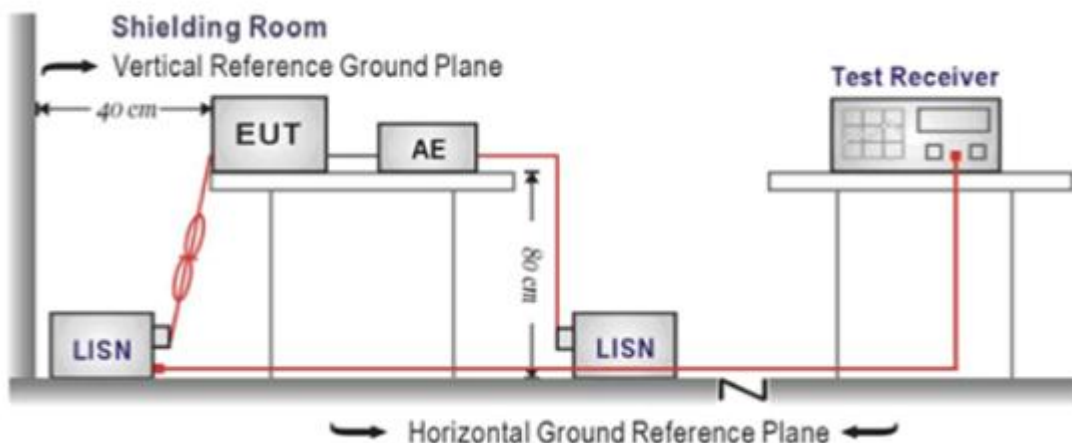
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

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

* 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)
5. 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.
6. 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:

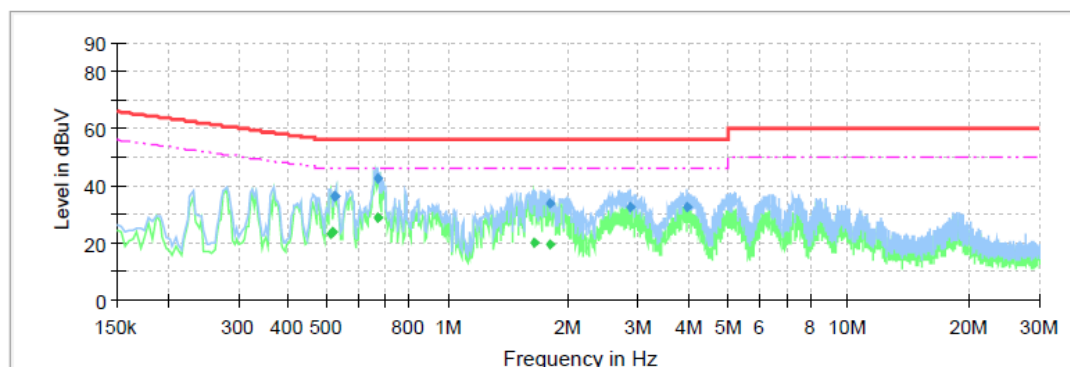
Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Test Line:

L

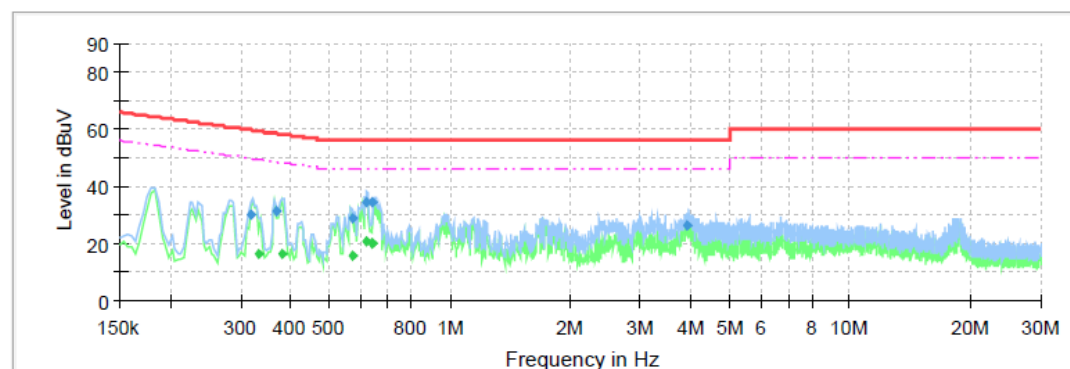


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.5094	---	23.04	46.00	22.96	L1	10.1
0.5164	---	24.05	46.00	21.95	L1	10.1
0.5204	35.99	---	56.00	20.01	L1	10.1
0.5254	36.15	---	56.00	19.85	L1	10.1
0.6685	---	28.80	46.00	17.20	L1	10.2
0.6704	42.32	---	56.00	13.68	L1	10.2
0.6704	---	28.58	46.00	17.42	L1	10.2
1.6432	---	20.12	46.00	25.88	L1	10.3
1.7978	---	19.51	46.00	26.49	L1	10.4
1.8068	33.51	---	56.00	22.49	L1	10.4
2.8556	32.45	---	56.00	23.55	L1	10.4
3.9683	32.32	---	56.00	23.68	L1	10.2

Test Line:

N



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.3191	30.13	---	59.73	29.60	N	10.3
0.3351	---	16.25	49.32	33.07	N	10.3
0.3708	31.02	---	58.48	27.46	N	10.3
0.3828	---	16.41	48.22	31.81	N	10.3
0.5694	---	15.77	46.00	30.23	N	10.3
0.5734	28.86	---	56.00	27.14	N	10.3
0.6187	---	20.70	46.00	25.30	N	10.3
0.6216	34.68	---	56.00	21.32	N	10.3
0.6426	---	20.11	46.00	25.89	N	10.3
0.6430	---	20.14	46.00	25.86	N	10.3
0.6438	34.58	---	56.00	21.42	N	10.3
3.9336	26.00	---	56.00	30.00	N	10.1

5.2. Radiated Emissions

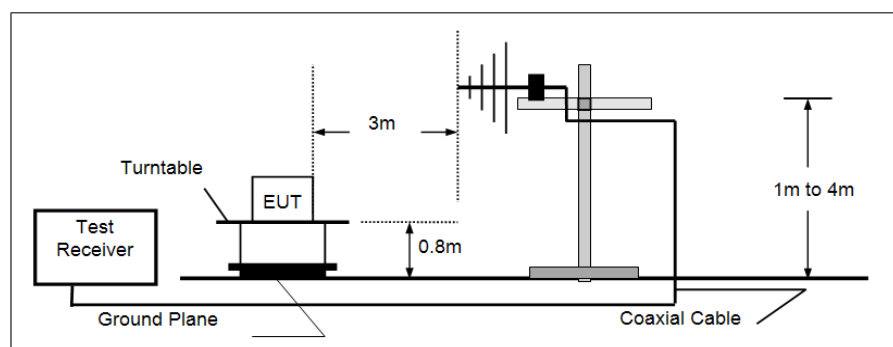
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109

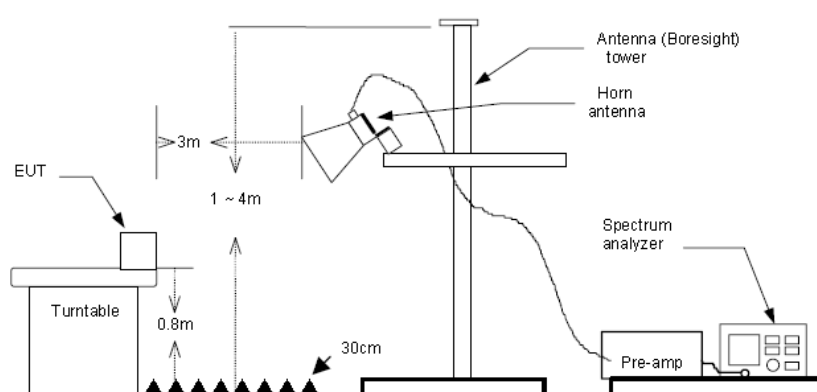
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

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 was positioned 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, the emission measurement will be repeated using

the quasi-peak detector and reported.
(3) From 1GHz to 5th harmonic, RBW=1MHz, VBW=3MHz

TEST MODE:

Please refer to the clause 3.3

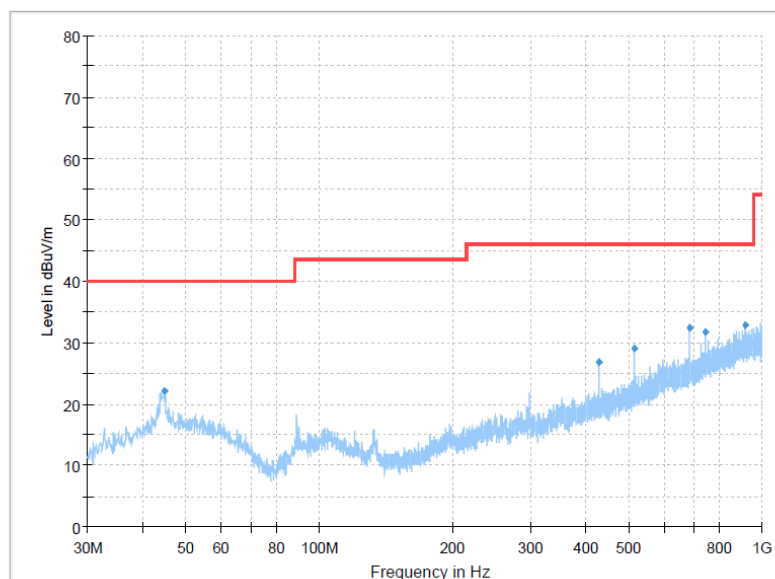
TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

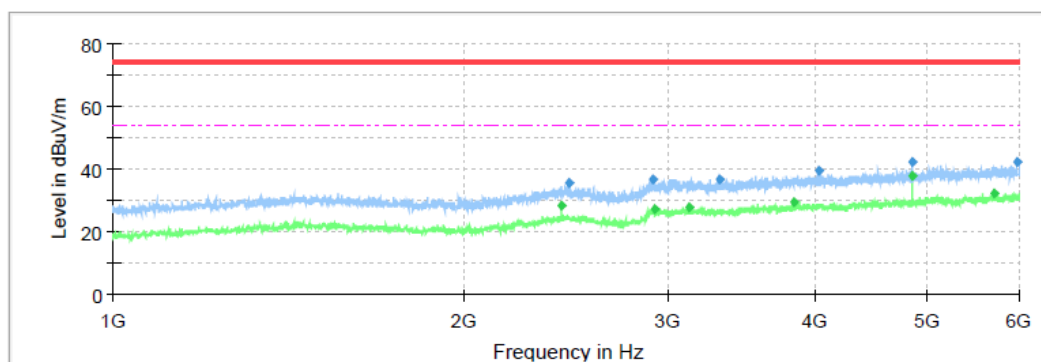
Note: Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
The emission levels of frequency above 6GHz are very lower than limit and not show in test report.

Polarization:

Horizontal

**Final Result**

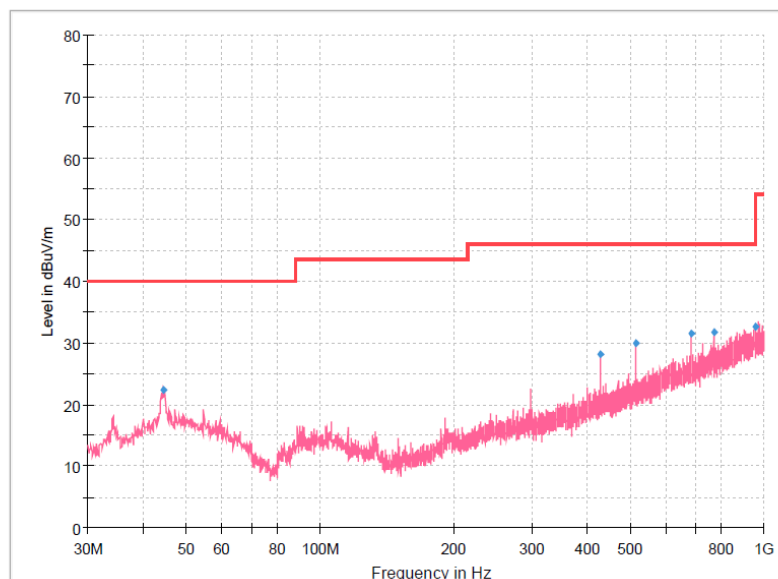
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.7925	22.07	40.00	17.93	100.0	H	0.0	-8.8
427.4575	26.73	46.00	19.27	100.0	H	94.0	-3.5
513.0600	29.06	46.00	16.94	100.0	H	25.0	-1.7
687.5388	32.42	46.00	13.58	100.0	H	295.0	2.1
744.0413	31.81	46.00	14.19	100.0	H	356.0	3.6
917.4288	32.84	46.00	13.16	100.0	H	195.0	6.8

**Final Result**

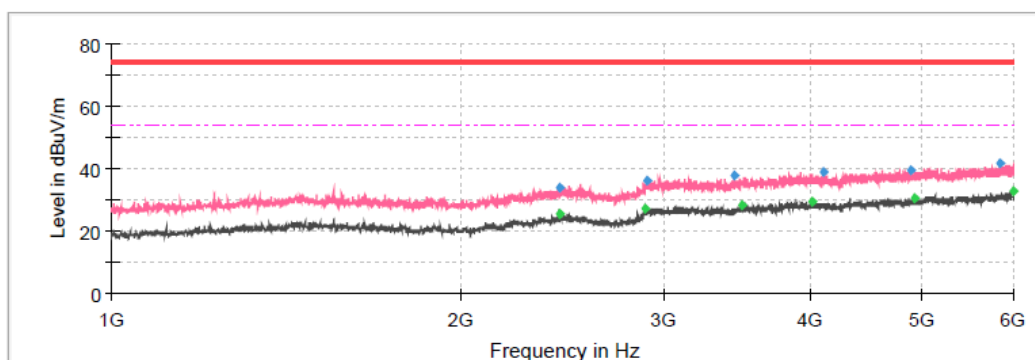
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2425.6250	---	28.47	54.00	25.53	150.0	H	278.0	-9.3
2467.5000	35.28	---	74.00	38.72	150.0	H	345.0	-9.4
2906.8750	36.59	---	74.00	37.41	200.0	H	345.0	-7.7
2918.1250	---	27.35	54.00	26.65	150.0	H	222.0	-7.7
3128.1250	---	27.94	54.00	26.06	200.0	H	278.0	-7.1
3324.3750	36.79	---	74.00	37.21	200.0	H	323.0	-7.6
3840.6250	---	29.26	54.00	24.74	150.0	H	356.0	-5.5
4037.5000	39.27	---	74.00	34.73	150.0	H	289.0	-4.9
4852.5000	42.04	---	74.00	31.96	150.0	H	256.0	-2.6
4852.5000	---	37.50	54.00	16.50	150.0	H	256.0	-2.6
5718.1250	---	32.33	54.00	21.67	150.0	H	88.0	-0.5
5978.7500	42.05	---	74.00	31.95	150.0	H	19.0	0.5

Polarization:

Vertical

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.4288	22.31	40.00	17.69	100.0	V	207.0	-8.8
427.5788	28.05	46.00	17.95	100.0	V	257.0	-3.5
513.0600	29.90	46.00	16.10	100.0	V	0.0	-1.7
687.5388	31.49	46.00	14.51	100.0	V	312.0	2.1
769.5038	31.70	46.00	14.30	100.0	V	97.0	4.1
953.9250	32.66	46.00	13.34	100.0	V	1.0	7.2

**Final Result**

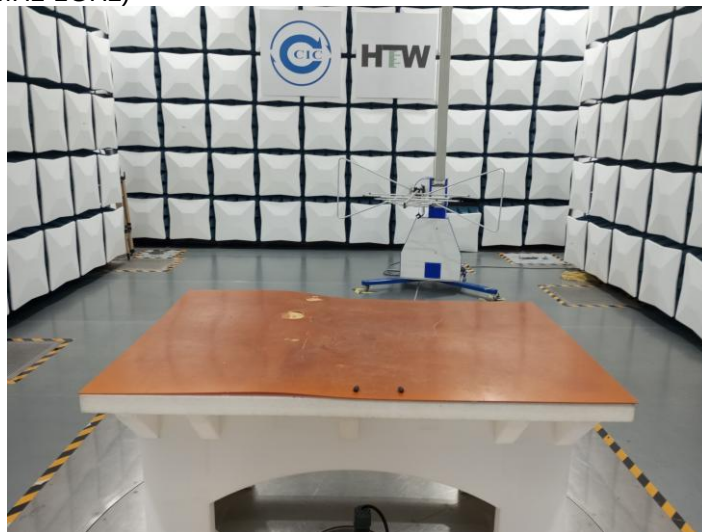
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2436.2500	33.69	---	74.00	40.31	150.0	V	20.0	-9.3
2440.0000	---	25.58	54.00	28.42	200.0	V	290.0	-9.3
2881.2500	---	27.12	54.00	26.88	150.0	V	76.0	-7.8
2892.5000	36.14	---	74.00	37.86	200.0	V	0.0	-7.7
3446.8750	37.50	---	74.00	36.50	150.0	V	43.0	-7.1
3500.6250	---	28.12	54.00	25.88	200.0	V	9.0	-6.6
4022.5000	---	29.63	54.00	24.37	150.0	V	211.0	-4.9
4119.3750	39.03	---	74.00	34.97	150.0	V	43.0	-4.7
4888.7500	39.53	---	74.00	34.47	150.0	V	132.0	-2.5
4934.3750	---	30.50	54.00	23.50	150.0	V	9.0	-2.4
5851.8750	41.68	---	74.00	32.32	150.0	V	43.0	0.1
5990.6250	---	32.53	54.00	21.47	150.0	V	65.0	0.5

6. TEST SETUP PHOTOS OF THE EUT

Conducted Emissions (AC Mains)



Radiated Emissions (30MHz-1GHz)



Radiated Emissions (Above 1GHz)



7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Refer to the test report No.: CHTW25120135

--- End of Report ---