



FCC TEST REPORT

On Behalf of
Hebei Cozynest Tech Co., Ltd.

Electric Heating Blanket

Model No.: HBCN-01

Prepared for : Hebei Cozynest Tech Co., Ltd.
Address : 30 meters east of the opposite side of Mucun Township
Government, Xinle City, Hebei Province

Prepared By : Centre testing Commodity Co., LTD.
Room 101, No.327-6, Guanping Road, Songxuan
Address : Community, Guanhu Subdistrict Longhua District,
Shenzhen City

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TABLE OF CONTENTS

Description	Page
1. General Information	5
1.1. Description of Device (EUT)	5
1.2. Accessories of Device (EUT)	5
1.3. Tested Supporting System Details.	6
1.4. Block Diagram of connection between EUT and simulators	6
2. Summary Of Standards And Results	7
2.1. Description of Standards and Results	7
2.2. Test Mode Description	7
2.3. Test Equipment List	8
2.4. Test Facility	9
2.5. Measurement Uncertainty	9
3. Power Line Conducted Emission Test	10
3.1. Test Limits	10
3.2. Block Diagram of Test Setup	10
3.3. Configuration of EUT on Test	11
3.4. Operating Condition of EUT	11
3.5. Test Procedure	11
3.6. Test Results	11
4. Radiated Emission Test	14
4.1. Test Limit	14
4.2. Block Diagram of Test Setup	15
4.3. Configuration of EUT on Test	16
4.4. Operating Condition of EUT	16
4.5. Test Procedure	16
4.6. Test Results	17
5. Test Setup Photo	20
6. Photos Of The EUT	21



TEST REPORT DECLARATION

Applicant : Hebei Cozynest Tech Co., Ltd.
Address : 30 meters east of the opposite side of Mucun Township Government, Xinle City, Hebei Province
Manufacturer : Hebei Cozynest Tech Co., Ltd.
Address : 30 meters east of the opposite side of Mucun Township Government, Xinle City, Hebei Province
EUT Description : Electric Heating Blanket
(A) Model No. : HBCN-01
(B) Trademark : N/A

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B, ANSI C63.4:2014

The device described above is tested by Centre testing Commodity Co., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Centre testing Commodity Co., LTD. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC Part15 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Centre testing Commodity Co., LTD.

Tested by (name + signature).....: Raymon Yu
Project Engineer

Raymon Yu

Approved by (name + signature).....: Bob Xu
Project Manager

Bob Xu



Date of issue.....: Aug. 20, 2026



Revision History

Revision	Issue Date	Revisions	Revised By
V0.1	Aug. 20th, 2026	Initial released Issue	Raymon Yu



1. General Information

1.1. Description of Device (EUT)

Product Name	: Electric Heating Blanket
Model Number	: HBCN-01
Series Model	HBCN-02, HBCN-03, HBCN-04, HBCN-05, HBCN-06, HBCN-07, HBCN-08, HBCN-09, HBCN-10, HBCN-11, HBCN-12, HBCN-13, HBCN-14, HBCN-15, HBCN-06, HBCN-07, HBCN-08, HBCN-19, HBCN-20
Model Difference	: All models are the same except for model name and appearance.
Highest Frequency	: Less than 108MHz
Test Voltage	: AC120V, 60Hz
EUT information	: AC110-230V~, 50/60Hz, 1.6A, 120W
Trademark	: /
Software version	: N/A
Hardware version	: N/A

1.2. Accessories of Device (EUT)

Power Source	: /
Model	: /
Input	: /
Output	: /



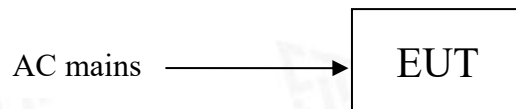
1.3. Tested Supporting System Details.

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
1.	Adapter	/	/	/	/

1.4. Block Diagram of connection between EUT and simulators

For test

Power from AC mains



No.	Port Name	Cable	Length	Shielded (Yes or No)	Detachable (Yes or No)
/	/	/	/	/	/
/	/	/	/	/	/



2. Summary Of Standards And Results

2.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

EMISSION			
Description of Test Item	Standard	Limits	Results
Power Line Conducted Emission Test	FCC Part 15:2017 ANSI C63.4:2014	Class B	P
Radiated Emission Test	FCC Part 15:2017 ANSI C63.4:2014	Class B	P
Note: 1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable.			

2.2. Test Mode Description

For Power Line Conducted Emission Test		
Mode No.	Test Mode	Test Voltage
1.	Working	AC120V/60Hz



2.3. Test Equipment List

For Power Line Conducted Emission Test Equipment:						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	R&S	ESR7	102543	2026.04.14	1 Year
2.	L.I.S.N.#1	R&S	ESH3-Z5	894981/024	2026.04.14	1 Year
3.	L.I.S.N.#2	R&S	ENV216	101291	2026.04.14	1 Year

For Frequency Range 30MHz~1GHz Radiated Emission Test Equipment:						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	R&S	ESR7	102543	2026.04.14	1 Year
3	Bilog Antenna	Schwarzbeck	VULB 9168	01318	2026.04.14	2 Year

For Frequency Range above 1GHz Radiated Emission Test Equipment:						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	R&S	FSV40-N	101795	2026.04.14	1 Year
2	Horn Antenna	A.H. Systems	BBHA 9120 D	915	2025.04.14	2 Year
3	Amplifier	Agilent	8449B	3008A00551	2026.04.14	1 Year



2.4. Test Facility

Centre testing Commodity Co., LTD.

Room 101, No.327-6, Guanping Road, Songxuan Community, Guanhu Subdistrict, Longhua District, Shenzhen City

2.5. Measurement Uncertainty

Item	MU	Remark
Conducted Emission (9K~0.15MHz)	2.18dB	
Conducted Emission (0.15M~30MHz)	2.17dB	
Radiation Emission ,3m (30MHz~1GHz)	4.45 dB	Polarize: V
	2.76 dB	Polarize: H
Radiation Emission, 3m (1GHz~6GHz)	4.02 dB	
Radiation Emission,3m (6GHz~18GHz)	4.30 dB	
RF output power (conducted)	0.41 dB	
Power Spectral Density (conducted)	0.39 dB	
Spurious emissions (conducted)	0.59 dB	
Occupied Channel Bandwidth (conducted)	4.22%	
(95% confidence levels, k=2)		



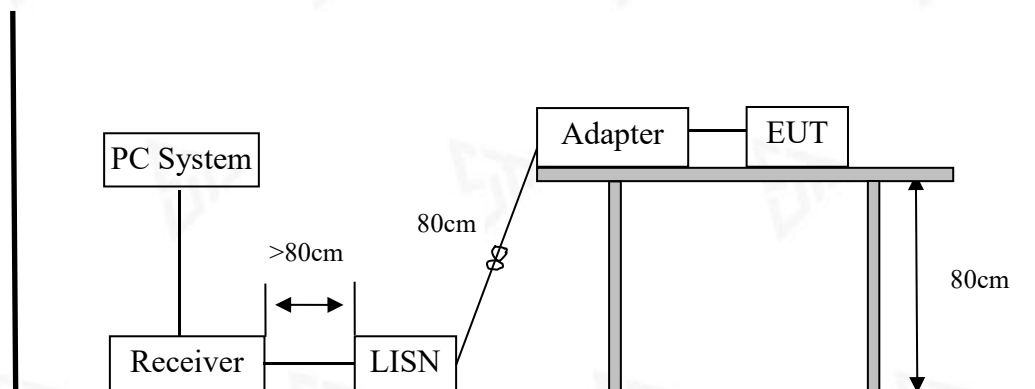
3. Power Line Conducted Emission Test

3.1. Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

- Notes:
1. Emission level=Read level + LISN factor-Preamplifier factor + Cable loss
 2. * Decreasing linearly with logarithm of frequency.
 3. The lower limit shall apply at the transition frequencies.

3.2. Block Diagram of Test Setup





3.3.Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.Operating Condition of EUT

- (1) Setup the EUT as shown as Section 3.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

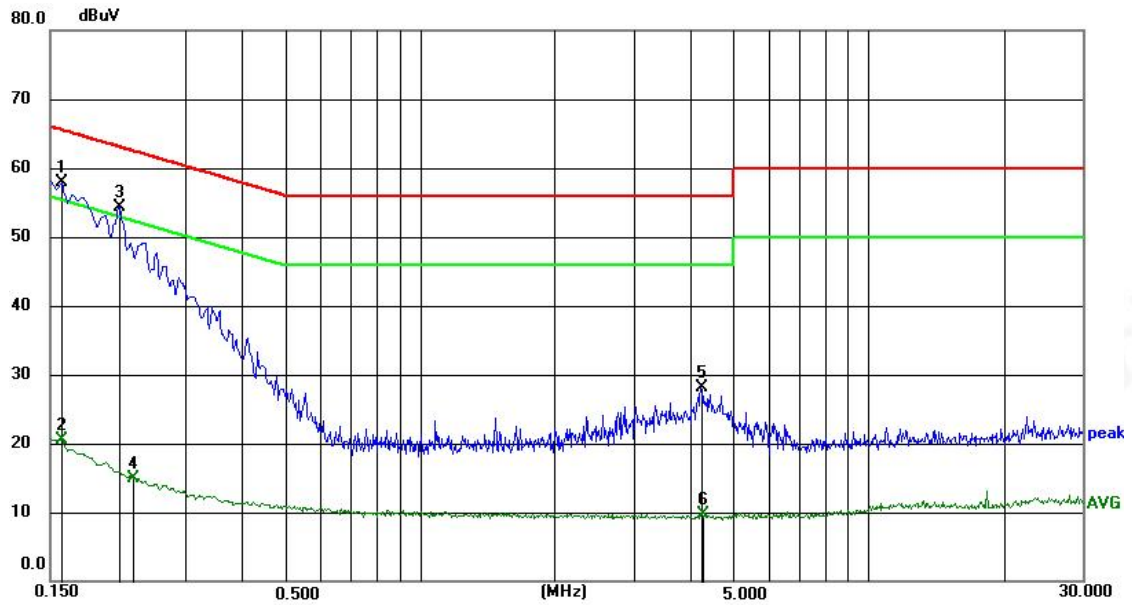
3.5.Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4:2014 on conducted Emission test.
- (2) The frequency range from 150kHz to 30MHz is checked, the bandwidth of test receiver (R&S TEST RECEIVER ESCI) is set at 9kHz.

3.6.Test Results

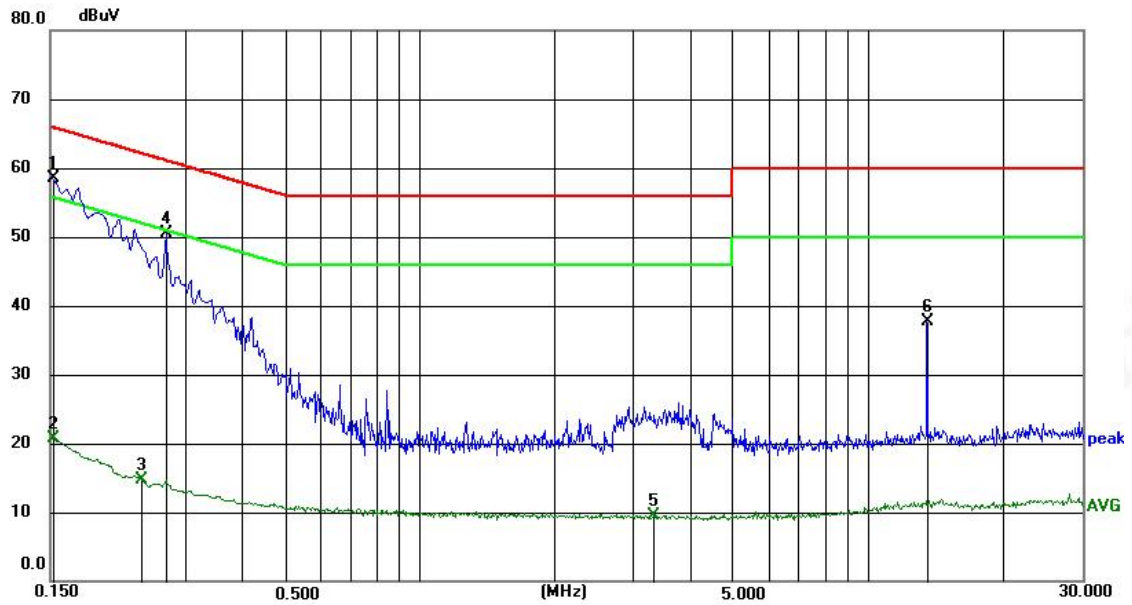
PASS. (See below detailed test data)

Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit.

**Polarization: Line 1**

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1590	47.62	10.27	57.89	65.52	-7.63	peak	P
2	0.1590	10.27	10.27	20.54	55.52	-34.98	AVG	P
3	0.2139	44.11	10.26	54.37	63.05	-8.68	peak	P
4	0.2292	4.72	10.26	14.98	52.48	-37.50	AVG	P
5	4.2242	17.63	10.44	28.07	56.00	-27.93	peak	P
6	4.2466	-0.83	10.44	9.61	46.00	-36.39	AVG	P

5

**Polarization: Neutral**

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1515	48.35	10.22	58.57	65.92	-7.35	peak	P
2	0.1524	10.47	10.22	20.69	55.87	-35.18	AVG	P
3	0.2391	4.44	10.25	14.69	52.13	-37.44	AVG	P
4	0.2714	40.17	10.25	50.42	61.07	-10.65	peak	P
5	3.3180	-0.85	10.41	9.56	46.00	-36.44	AVG	P
6	13.5459	26.95	10.67	37.62	60.00	-22.38	peak	P



4. RADIATED EMISSION TEST

4.1. Test Limit

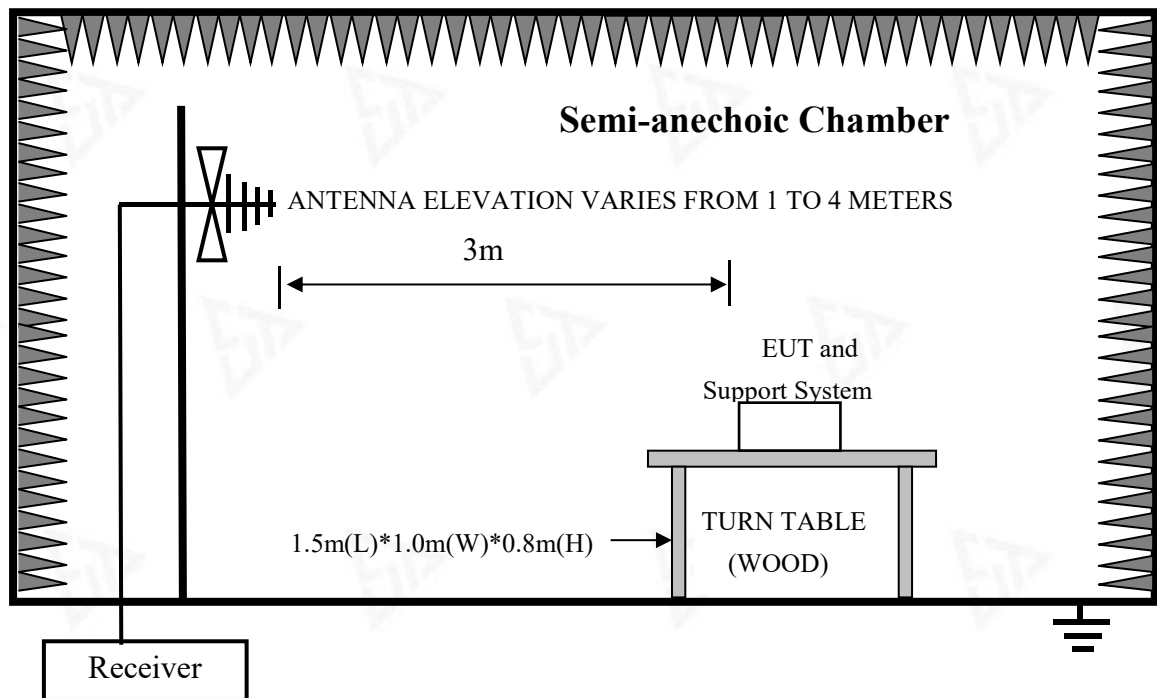
Frequency MHz			Distance (Meters)	Distance (Meters)
30	~	88	3	40.0
88	~	216	3	43.5
216	~	960	3	46.0
960	~	1000	3	54.0
Above 1GHz			3	74(Peak) 54(Average)

- Notes:
1. The smaller limit shall apply at the cross point between two frequency bands.
 2. Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 3. Frequency range of radiated measurements:

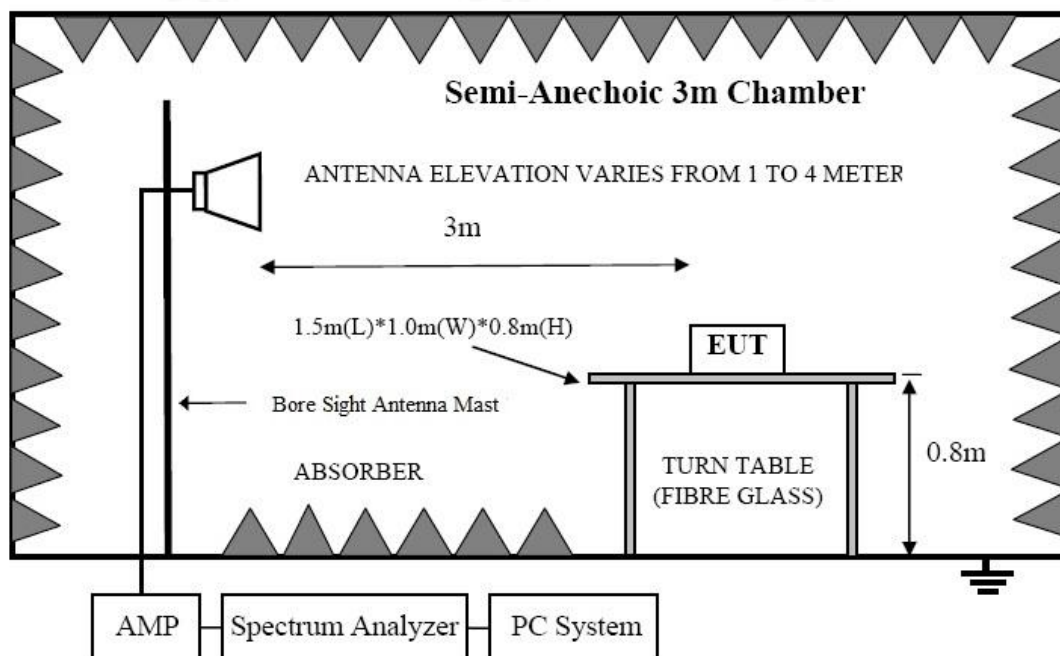
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

4.2. Block Diagram of Test Setup

In Semi Anechoic Chamber (3m) Test Setup Diagram for 30MHz~1000MHz



In Semi Anechoic Chamber (3m) Test Setup Diagram for Above 1GHz





4.3. Configuration of EUT on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

4.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 4.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

4.5. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4:2014 on Radiated Emission test.
- (2) For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- (3) The frequency range from 30MHz to 1000MHz is checked, the bandwidth of test receiver (R&S TEST RECEIVER ESR) is set at 120kHz.
- (4) The frequency range from above 1GHz is checked, the bandwidth of spectrum analyzer (Spectrum Analyzer FSV40-N) is set at 1MHz.
- (5) The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values, the frequency range from 1GHz to 6GHz was pre-scanned with a peak detector and all final readings of measurement from Spectrum Analyzer are peak and average values checked,



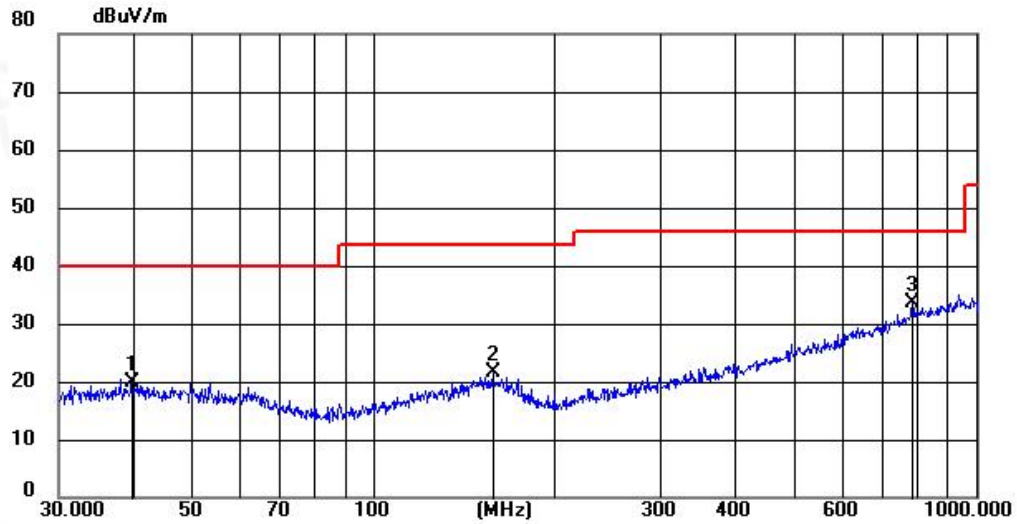
all measurement distance is 3m in 3m semi anechoic chamber.

(6) The test results are reported on Section 4.7.

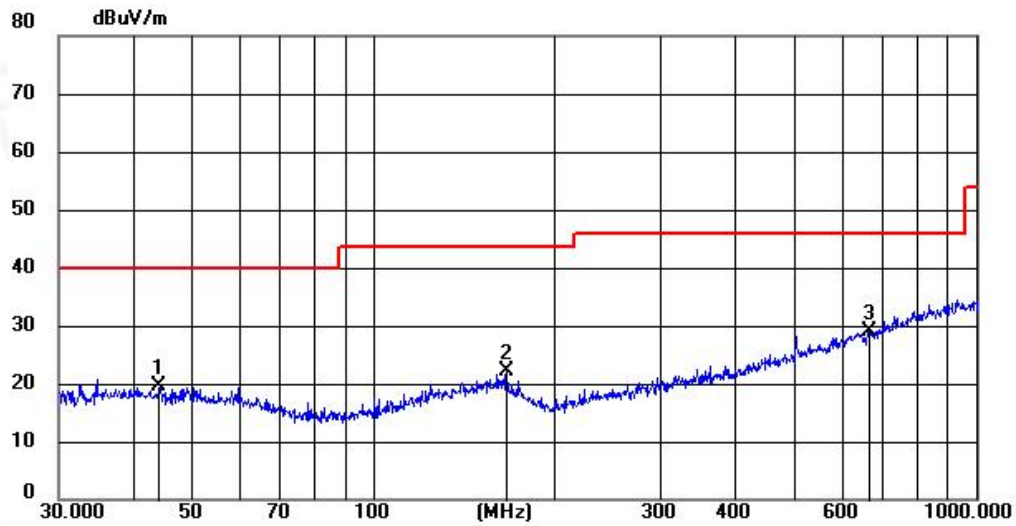
4.6. Test Results

PASS. (See below detailed test data)

Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit

**Antenna polarity: Vertical****Test Mode: Mode 1**

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	39.7984	33.78	-14.05	19.73	40.00	-20.27	peak	100	360	P
2	157.4484	34.88	-13.45	21.43	43.50	-22.07	peak	100	360	P
3 *	782.0710	37.03	-3.55	33.48	46.00	-12.52	peak	100	360	P

**Antenna polarity: Horizontal****Test Mode: Mode 1**

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	44.2442	34.13	-14.53	19.60	40.00	-20.40	peak	100	360	P
2	166.4762	36.20	-14.04	22.16	43.50	-21.34	peak	100	360	P
3 *	664.9869	34.76	-5.76	29.00	46.00	-17.00	peak	100	360	P

Note: 1. Level = Reading + Factor

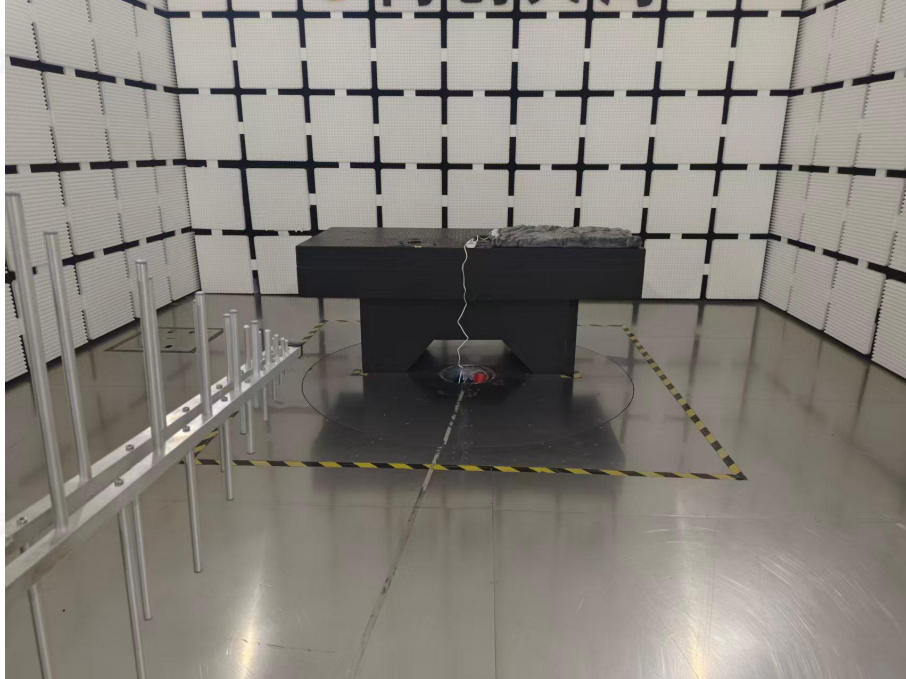
2. Factor = Antenna Factor + Cable Loss

3. Margin = Level - Limit



5. Test Setup Photo

Radiated Emission Test Photo



Conducted Emission Test Photo

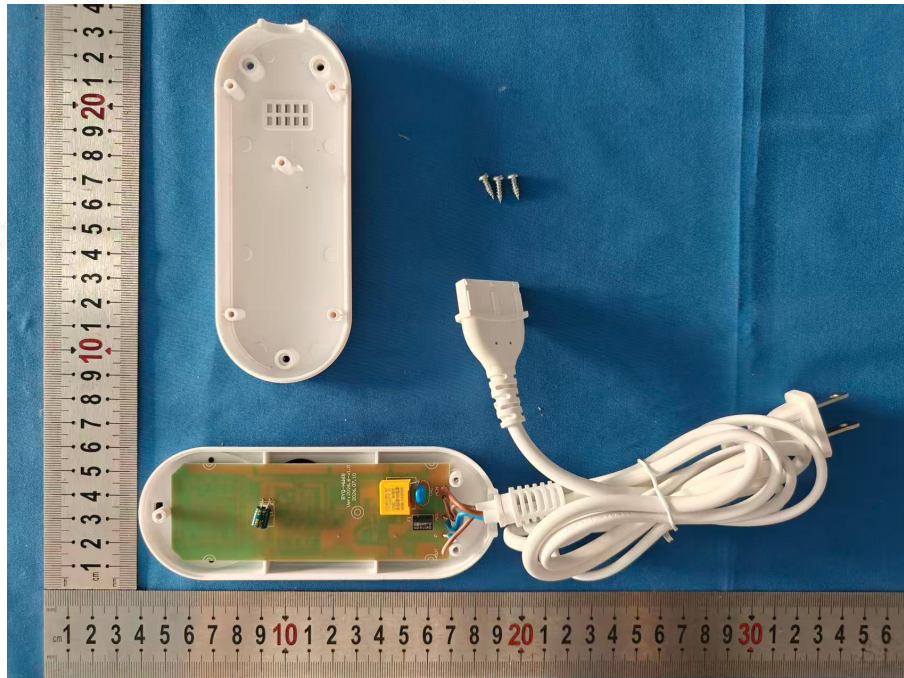


6. Photos Of The EUT

External view

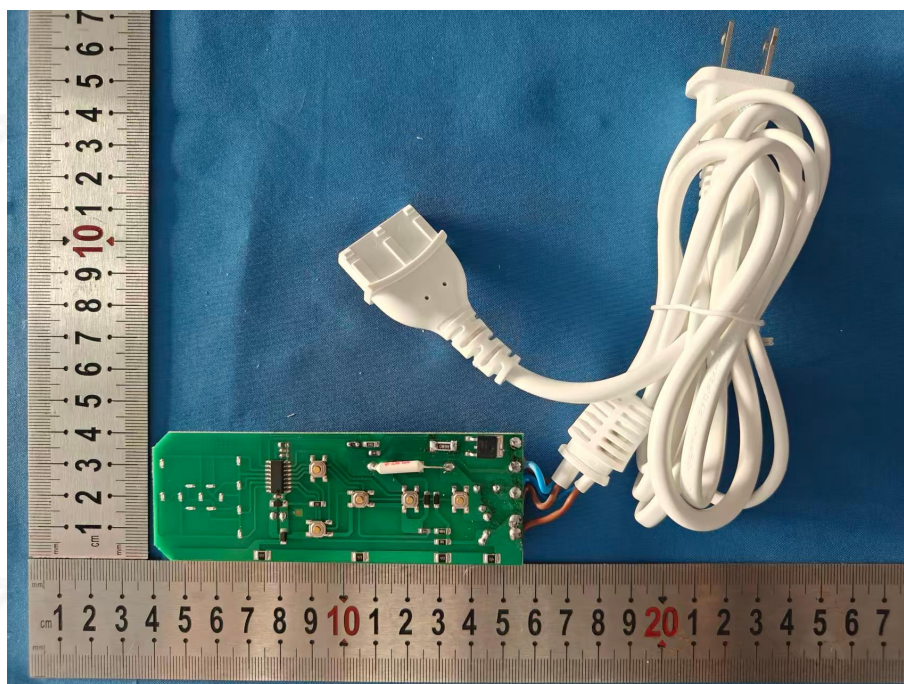


Internal View





Internal View



---End of report---