



EMC TEST REPORT

Report Number.....: CTC202608102003R

Date of issue.....: 2026-08-20

Testing Laboratory Name.....: Centre testing Commodity Co., LTD.

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

Applicant's name.....: Hebei Cozynest Tech Co., Ltd.

Address.....: 30 meters east of the opposite side of Mucun Township
Government, Xinle City, Hebei Province

Test specification:

Standard.....: EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 61000-3-2:2019+A1:2021+A2:2024
EN 61000-3-3:2013+A1:2019+A2:2021

Test procedure.....: CE-EMC

Non-standard test method.....: N/A

Test item description.....: Electric Heating Blanket

Trade mark.....: N/A

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

Model/Type reference.....: HBCN-01

List 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

Ratings.....: AC220-230V, 50Hz, 1.6A, 120W

Testing:

Date of receipt of test item.....: 2026-08-10

Date (s) of performance of tests.....: 2026-08-11 to 2026-08-17

Result.....: Positive



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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:

Standards: EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 61000-3-2:2019+A1:2021+A2:2024
EN 61000-3-3:2013+A1:2019+A2:2021

This device described above has been tested by Centre testing Commodity Co., LTD. and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

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

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

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





1 General Description

1.1 Description of EUT

Product name:	Electric Heating Blanket
Model name:	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
Different of series model:	All models are the same except for model name and appearance.
Power supply:	AC220-230V, 50Hz, 1.6A, 120W
Adapter information:	N/A

1.2 Test mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test mode	Description
Mode 1	Working
<i>Note: The test modes were carried out for all operation modes. The final test mode of the EUT was the worst test mode for EMI, and its test data is showed.</i>	

1.3 Test setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Ancillary equipment

Equipment	Model	S/N	Manufacturer
Adapter	/	/	/



2 Summary of Test Result

No.	Test Standard	Description of Test	Result	Remark
Emission				
1	EN 55014-1	Conducted emission	Pass	
2		Radiated emission	Pass	
3		Disturbance Power	Pass	
4	EN IEC 61000-3-2:2019+A1:2021	Harmonic current emission	Pass	
5	EN 61000-3-3:2013+A1:2019+A2:2021	Voltage fluctuations &flicker	Pass	
Immunity				
1	EN 55014-2	Electrostatic discharges (ESD)	Pass	
2		Radiated electromagnetic field disturbances (RS)	Pass	
3		Conducted disturbances (CS)	N/A	
4		Power frequency magnetic field	N/A	
5		Electrical fast transients/burst (EFT/S)	Pass	
6		Surges	Pass	
7		Voltage dips and interruptions	Pass	
8		Broadband Impulse noise disturbances repetitive	N/A	
9		Broadband Impulse noise disturbances isolated	N/A	
N/A: Mean not applicable.				



3 Test Facilities and Accreditations

3.1 Test laboratory

Test Site	Centre testing Commodity Co., LTD.
Test Site Location	Room 101, No.327-6, Guanping Road, Songxuan Community, Guanhu Subdistrict, Longhua District, Shenzhen City

3.2 Environmental conditions

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

Temperature:	20°C~30°C
Humidity	30%~70% (30%~60% for ESD)
Atmospheric pressure	98kPa~101kPa

3.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$

Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	± 1 degree
Humidity	± 5 %

3.4 Test software

Software name	Manufacturer	Model	Version
EMI Measurement Software	Farad	EZ-EMC	V1.1.4.2
Conducted immunity test system	Scholder	EN61000-4-6.exe	V1.3.0
Harmonics and flicker test system	TTI	HA-PC Link	V2.02
DIPS Test Firmware	Prima	DRP61011AG	V4.1.2
EFT Test Firmware	HTEC	HCOMPACT	V1.0.1
Surge Test Firmware	HTEC+	HCOMPACT	V1.0.1



4 List of test equipment

Radiation emission							
Item	Equipment name	Equipment No.	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	MTI-E004	Rohde&schwarz	ESPI	1000314	2025/10/05	2026/10/04
2	Broadband antenna	MTI-E006	schwarabeck	VULB9163	872	2025/10/05	2026/10/04
3	Horn antenna	MTI-E007	schwarabeck	BBHA9120D	1201	2025/10/05	2026/10/04
4	amplifier	MTI-E014	America	8447D	3113A06150	2025/10/05	2026/10/04
5	amplifier	MTI-E034	Agilent	8449B	3008A02400	2025/10/05	2026/10/04
6	18-40GHz amplifier	MTI-E052	Chengdu step Micro Technology	ZLNA-18-40G-21	1608001	2025/10/05	2026/10/04
7	spectrum analyzer	MTI-E049	Rohde&schwarz	FSP-38	100019	2025/10/05	2026/10/04
8	15-40G Antenna	MTI-E053	Schwarzbeck	BBHA9170	BBHA9170582	2025/10/05	2026/10/04
9	Active Loop Antenna 9kHz - 30MHz	MTI-E051	Schwarzbeck	FMZB 1519 B	00044	2025/10/05	2026/10/04

Conduction emission							
Item	Equipment name	Equipment No.	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Artificial power network	MTI-E037	Schwarzbeck	NSLK8127	NSLK8127#841	2025/10/05	2026/10/04
2	EMI Test Receiver	MTI-E003	Rohde&schwarz	ESCI	101368	2025/10/05	2026/10/04
3	Artificial power network	MTI-E058	Schwarzbeck	NSLK8127	NSLK8127#841	2025/10/05	2026/10/04

Conduction immunity							
Item	Equipment name	Equipment No.	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Conduction Immunity Signal Generator	MTI-E015	Schloder	CDG6000	126A1343/2015	2025/10/05	2026/10/04
2	Coupled decoupling network	MTI-E016	Schloder	CDA M2/M3	A2210332/2015	2025/10/05	2026/10/04



Voltage dips, short interruptions and voltage variations immunity							
Item	Equipment name	Equipment No.	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Drop generator	MTI-E025	Prima/China	DRP61011AG	PR15056303	2025/10/05	2026/10/04

Working frequency magnetic field immunity							
Item	Equipment name	Equipment No.	Manufacturer	Model	Serial No.	Calibration date	Due date
1	power frequency magnetic field generator	MTI-E011	china HTEC	HPFMF 100	153703	2025/10/05	2026/10/04

Electrostatic discharge immunity							
Item	Equipment name	Equipment No.	Manufacturer	Model	Serial No.	Calibration date	Due date
1	ESD Simulator	MTI-E008	Schloder	SESD 30000	509325	2025/10/05	2026/10/04

Surge immunity							
Item	Equipment name	Equipment No.	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Surge Generator	MTI-E010	china HTEC	HCWG 51	153702	2025/10/05	2026/10/04
Harmonic & flicker emissions							
Item	Equipment name	Equipment No.	Manufacturer	Model	Serial No.	Calibration date	Due date
1	AC power source	MTI-E023	shenzhen tongyuan	TY-8205	20150916809	2025/10/05	2026/10/04
2	Harmonic scintillation Analyzer	MTI-E013	Laplace	AC2000A	311216	2025/10/05	2026/10/04

Electrical Fast Transient/Burst immunity							
Item	Equipment name	Equipment No.	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Electrical Fast Transient Generator	MTI-E009	HTEC	HEFT 51	153701	2025/10/05	2026/10/04

Radiated electromagnetic field immunity					
Equipment	Manufacturer	Model	Serial No.	Calibration date	Due date
Signal Generator	R&S	SMB100A	106148	2025/10/05	2026/10/04
RF Power Amplifier	BONN Elektronik	STLP9128D	128740	2025/10/05	2026/10/04
Gestockte Breitband (S tacked) Log. -per.Antenna	SCHWARZBECK	STLP9128D	043	2025/10/05	2026/10/04
Power Meter	R&S	NRP2	102031	2025/10/05	2026/10/04
Amplifier	NJNT	NTWPAS-2560 025	2560025	2025/10/05	2026/10/04



Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120D-667	2025/10/05	2026/10/04
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Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



5 Emission test

5.1 Conducted emission

5.1.1 Limits

Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79	66	66 - 56 *	56 - 46 *
0.5 -5	73	60	56	46
5 -30	73	60	60	50

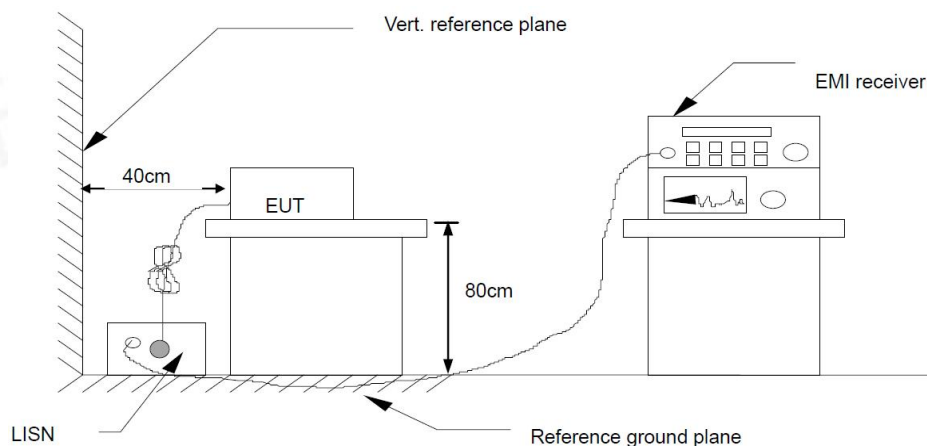
Note 1: the tighter limit applies at the band edges.

*Note 2: the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.*

5.1.2 Test Procedures

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item – photographs of the test setup.

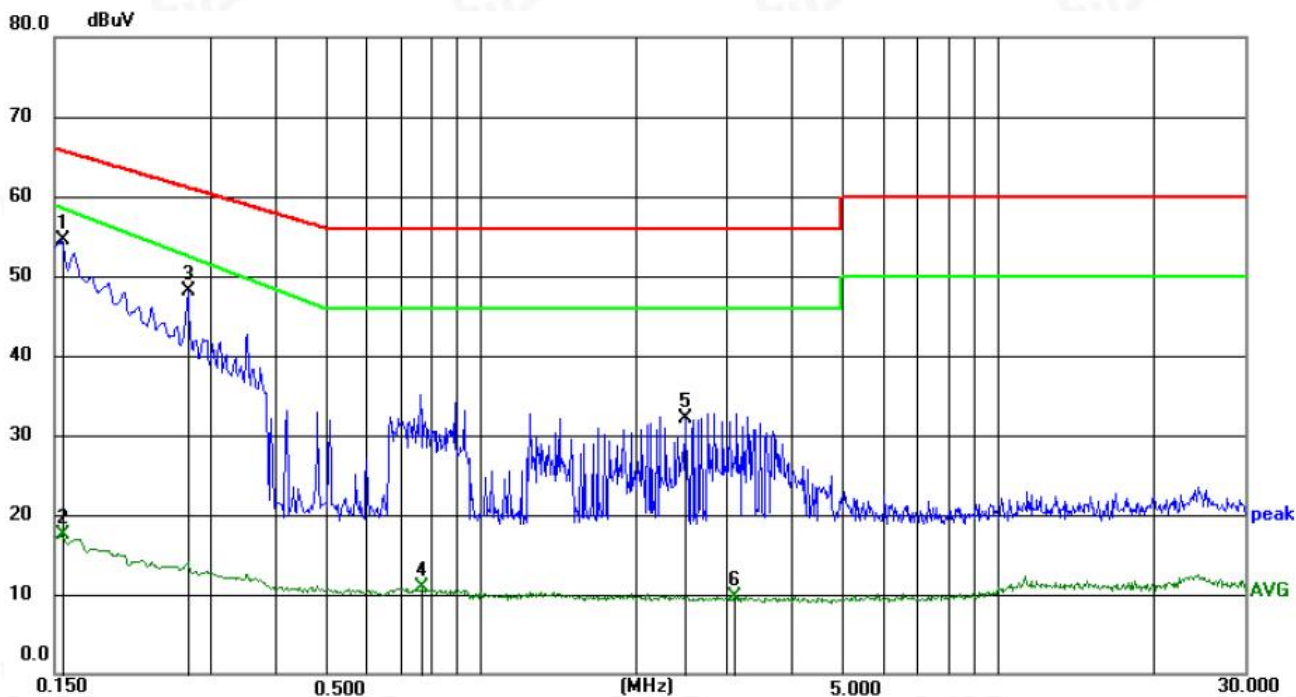
5.1.3 Test setup



5.1.4 Test Result



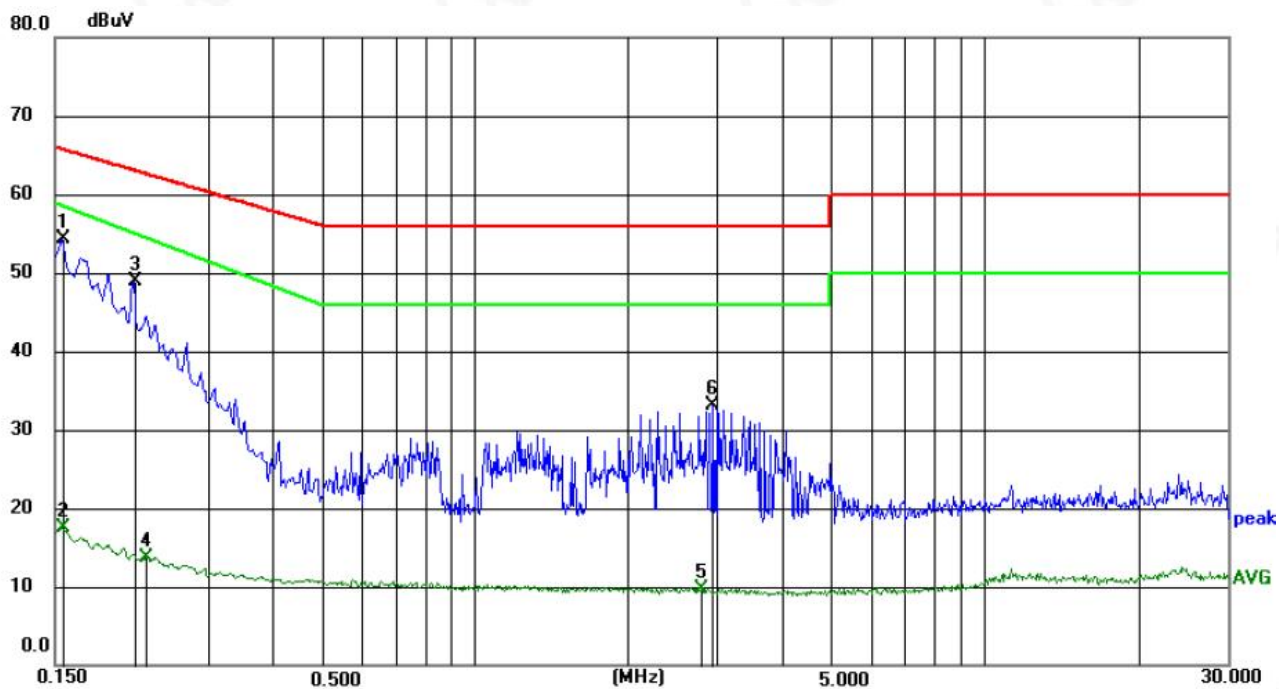
EUT:	Electric Heating Blanket	Model Number:	HBCN-01
Test voltage:	AC230V	Test mode:	Mode 1
Pressure:	101kPa	Polarization:	L1
Temperature:	26°C	Relative Humidity:	54%



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1545	44.21	10.27	54.48	65.75	-11.27	peak	P
2	0.1545	7.16	10.27	17.43	58.68	-41.25	AVG	P
3	0.2714	37.91	10.28	48.19	61.07	-12.88	peak	P
4	0.7710	0.51	10.33	10.84	46.00	-35.16	AVG	P
5	2.4900	21.61	10.40	32.01	56.00	-23.99	peak	P
6	3.0975	-0.73	10.41	9.68	46.00	-36.32	AVG	P



EUT:	Electric Heating Blanket	Model Number:	HBCN-01
Test voltage:	AC230V	Test mode:	Mode 1
Pressure:	101kPa	Polarization:	N
Temperature:	26°C	Relative Humidity:	54%



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1545	44.03	10.22	54.25	65.75	-11.50	peak	P
2	0.1545	7.35	10.22	17.57	58.68	-41.11	AVG	P
3	0.2130	38.64	10.23	48.87	63.09	-14.22	peak	P
4	0.2265	3.55	10.24	13.79	54.55	-40.76	AVG	P
5	2.7825	-0.62	10.40	9.78	46.00	-36.22	AVG	P
6	2.9445	22.70	10.40	33.10	56.00	-22.90	peak	P



5.2 Radiated emission

5.2.1 Limits

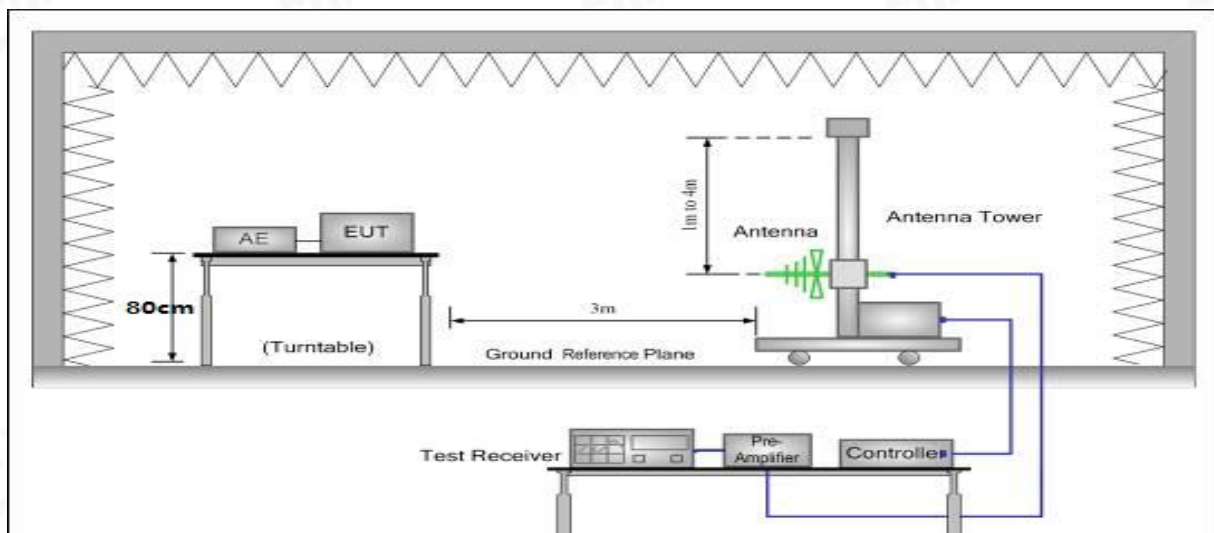
Frequency (MHz)	Class A (at 3m) dB μ V/m		Class B (at 3m) dB μ V/m	
	Quasi-peak		Quasi-peak	
30-230	50		40	
230-1000	57		47	
/	Peak	Average	Peak	Average
1000-3000	76	56	70	50
3000-6000	80	60	74	54

5.2.2 Test Procedures

- The radiated emission tests were performed in the 3 meters.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- If the peak mode measured value compliance with and lower than quasi peak mode limit, the EUT shall be deemed to meet QP limits and then no additional QP mode measurement performed.
- If the peak mode measured value compliance with and lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.
- For the actual test configuration, please refer to the related item – EUT test photos.

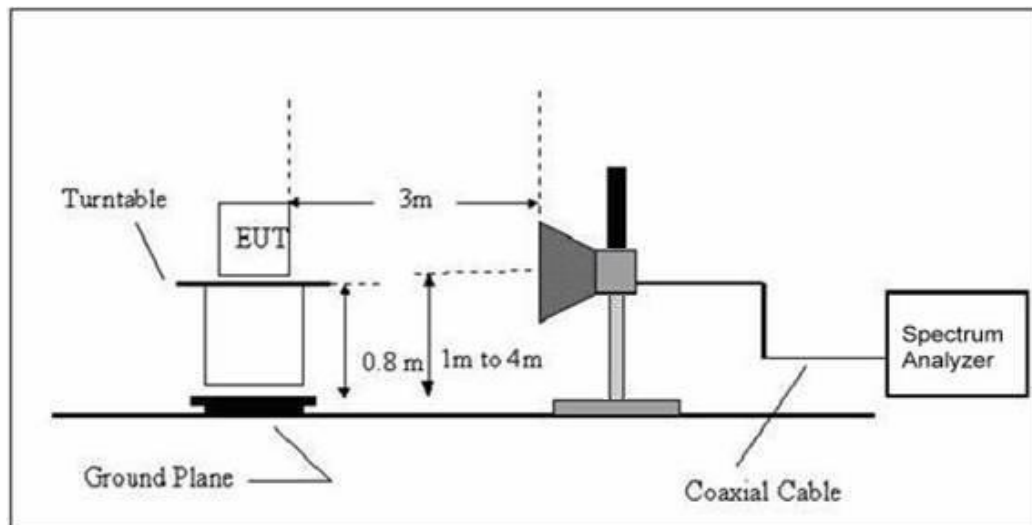
5.2.3 Test Setup

Radiated emission test-up frequency for 30MHz - 1GHz





Radiated emission test-up frequency for above 1GHz

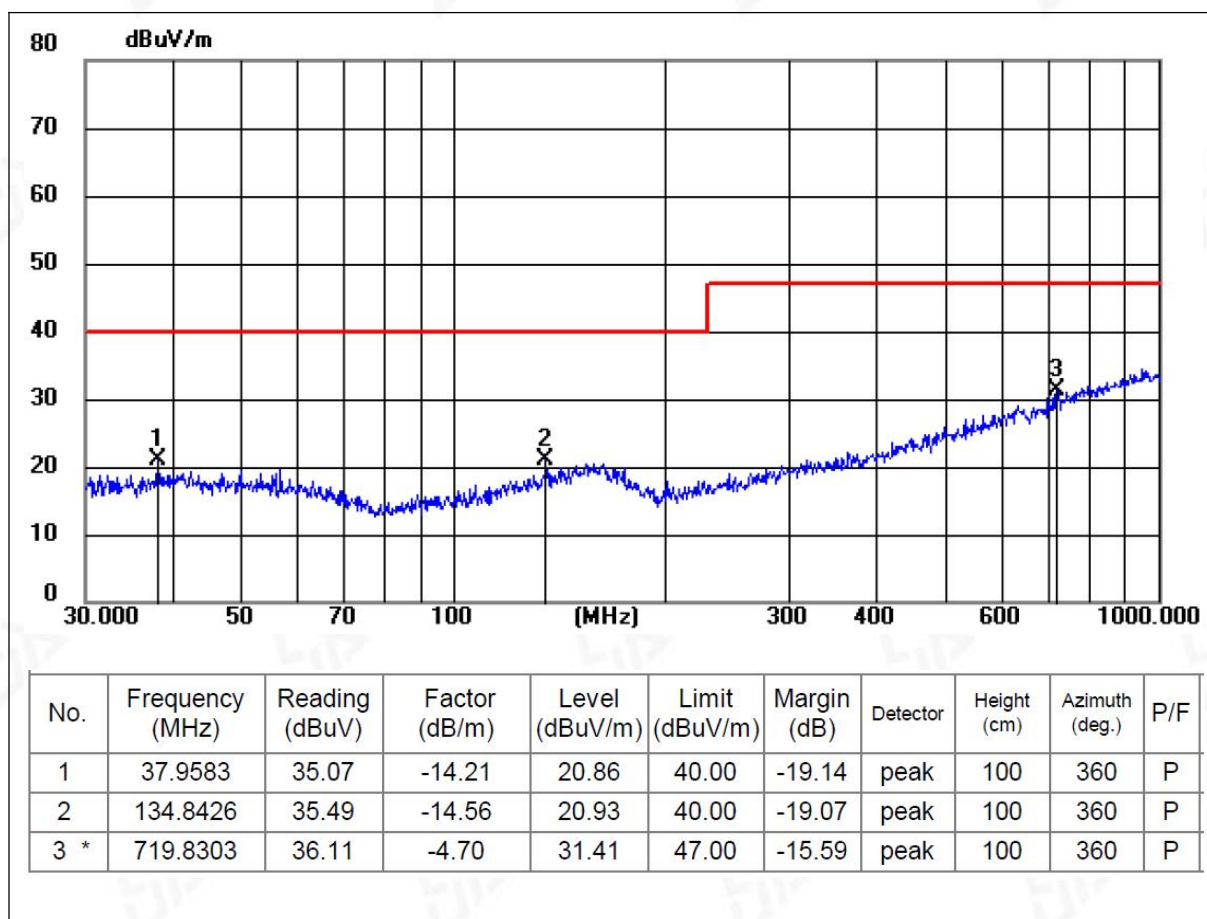


5.2.4 Test Result

Note: the highest working frequency of EUT is below 108MHz.

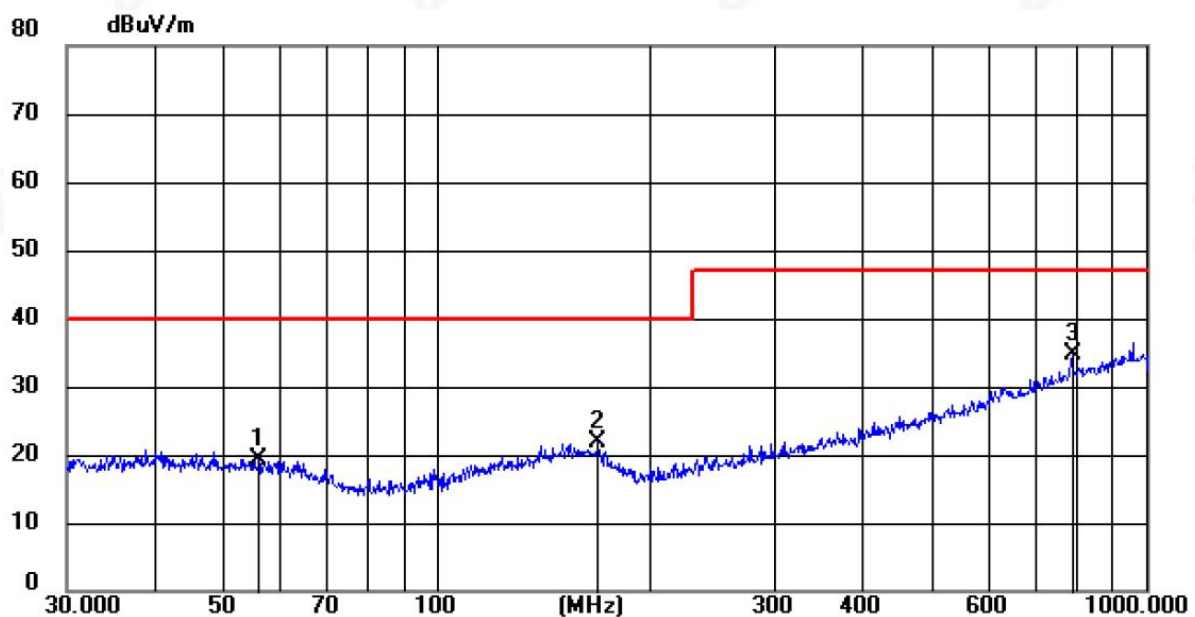


EUT:	Electric Heating Blanket	Model Number:	HBCN-01
Test voltage:	AC230V	Test mode:	Mode 1
Pressure:	101kPa	Polarization:	Horizontal
Temperature:	26°C	Relative Humidity:	54%





EUT:	Electric Heating Blanket	Model Number:	HBCN-01
Test voltage:	AC230V	Test mode:	Mode 1
Pressure:	101kPa	Polarization:	Vertical
Temperature:	26℃	Relative Humidity:	54%



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	55.9124	34.65	-15.31	19.34	40.00	-20.66	peak	100	360	P
2	168.4138	36.11	-14.27	21.84	40.00	-18.16	peak	100	360	P
3 *	787.2989	38.19	-3.45	34.74	47.00	-12.26	peak	100	360	P



5.3 DISTURBANCE POWER MEASUREMENT

5.3.1 LIMITS

FREQUENCY (MHz)	Household appliances and similar appliances		Rated motor power not exceeding 700W		Rated motor power above 700W and not exceeding 1000W		Rated motor power above 1000W	
	QP dBpW	Average dBpW	QP dBpW	Average dBpW	QP dBpW	Average dBpW	QP dBpW	Average dBpW
30 ~ 300	45-55	35-45	45-55	35-45	49-59	39-49	55-65	45-55

Note: 1) The lower limit shall apply at the transition frequencies.

2) Increasing linearly with the frequency.

3) QP means Quasi-peak, AV means Average.

4) The limit of column 2 and 3 apply to this product.

5.3.2 TEST PROCEDURE

The EUT is placed on a 0.8 meters height wooden table above the ground plane, and kept at least 0.8 m from other metallic object. The straight portion of lead would put on 6 m long testing bench of (if lead is shorter than 6 m it should be extended)

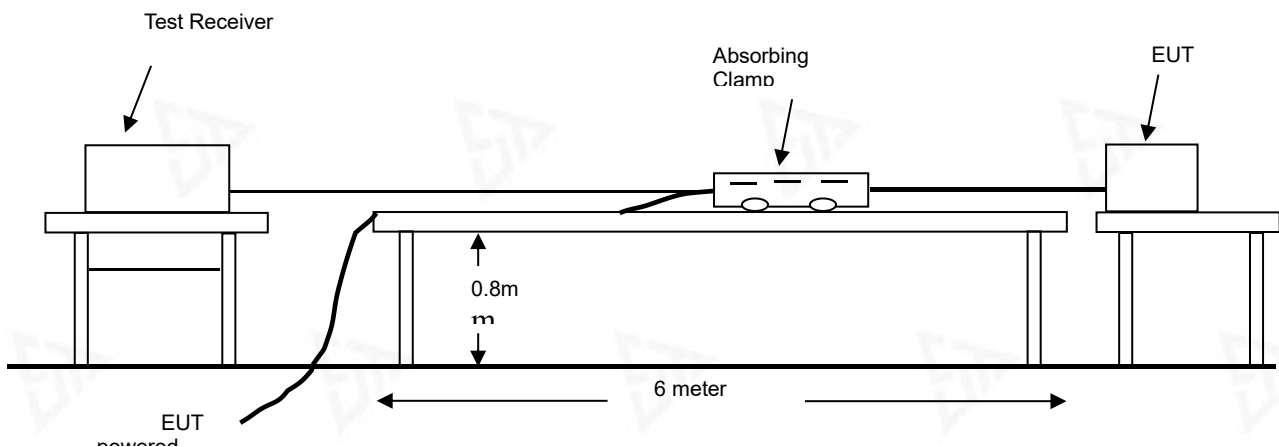
Any lead connecting the main appliance to an auxiliary apparatus is disconnected if this does not affect the operation of the appliance, or is isolated by means of ferrite rings (or an absorbing clamp) close to the appliance.

The receiver scanned from 30 MHz to 300 MHz. Emissions were scanned and measured to moving the absorbing clamp along the main lead until the maximum emission value is found. Recorded at least the six highest emissions.

The test data of the worst-case condition(s) was recorded.

Note: Test Software Name: e3, Software Version: 1.0.0.0.

5.3.3 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration

5.3.4 TEST RESULT

PASS

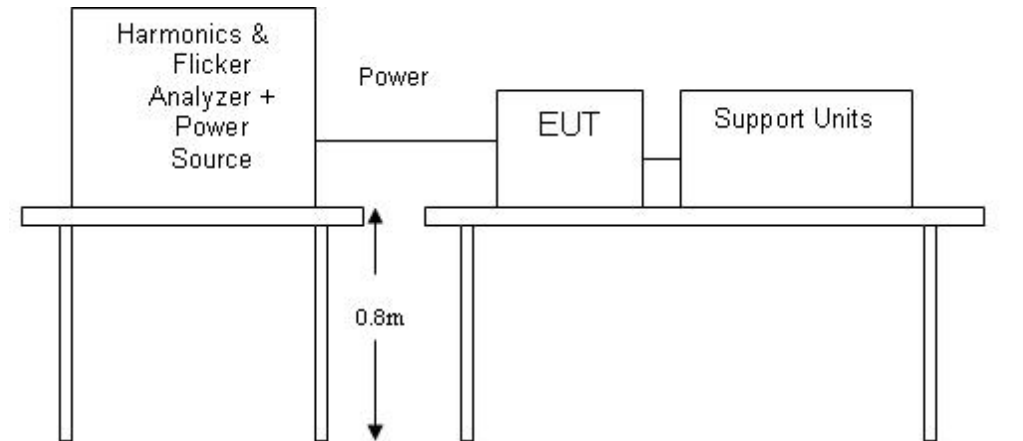


5.4 Harmonic current emission / Voltage fluctuations & flicker

5.4.1 Test Procedures

- a) The EUT was installed and placed on a non-conductive table and operated to produce the maximum harmonic components under normal operating conditions for each successive harmonic component in turn.
- b) The correspondent test program of test instrument to measure the current harmonics / voltage fluctuations & flicker emanated from EUT. The measure time shall be not less than the time necessary for the EUT to be exercised.

5.4.2 Test Setup



5.4.3 Test Result

PASS



6 Immunity test

6.1 Performance criteria

Performance criteria	
Performance criterion	Description
A	During and after the test the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a minimum performance level specified by the manufacturer when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the EUT if used as intended.
B	After the test, the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test. If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the EUT if used as intended.
C	During and after testing, a temporary loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls or cycling of the power to the EUT by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.
Particular performance criteria: The particular performance criteria which are specified in the normative annexes take precedence over the corresponding parts of the general performance criteria. Where particular performance criteria for specific functions are not given, then the general performance criteria shall apply.	

6.2 Electrostatic discharge (ESD)

6.2.1. Test Procedures

- a) The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

Contact discharge was applied to conductive surfaces and coupling planes of the EUT. During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second.

- b) Vertical Coupling Plane (VCP):

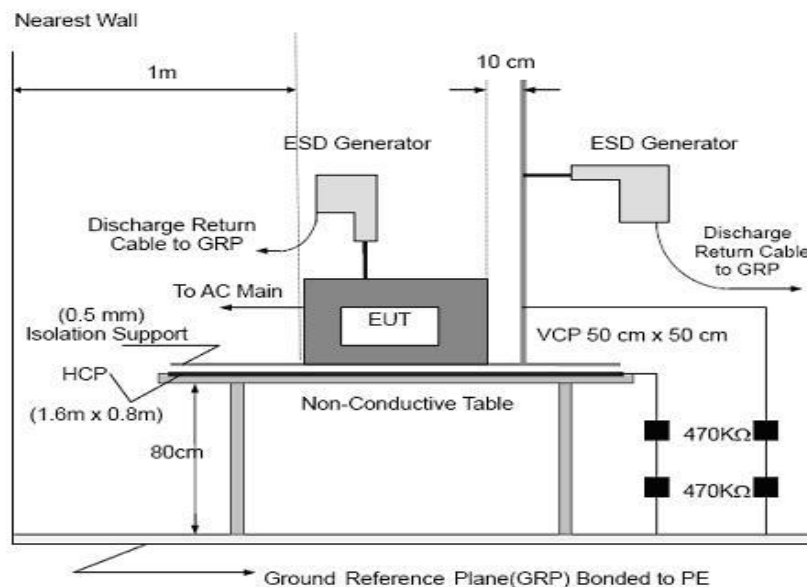
The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.

- c) Horizontal Coupling Plane (HCP):

The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.

Air discharges at insulation surfaces of the EUT. It was at least ten single discharges with positive and negative at the same selected point. For the actual test configuration, please refer to the related Item –EUT Test Photos.

6.2.2. Test Setup



6.2.3. Test Result

Indirect discharge

Temperature:	25℃	Relative Humidity:	57%
Pressure:	101kPa	Test mode:	Mode 1

No.	Test Point	Contact discharge level (kV)	Number and polarity	Criterion met	Criterion Required	Result
1	VCP-Front side	☐ ..2 ☒ ..4	10 (+)	A	B	Compliance
		☐ ..6 ☐ ..8	10 (-)	A		
2	VCP-Rear side	☐ ..2 ☒ ..4	10 (+)	A		
		☐ ..6 ☐ ..8	10 (-)	A		
3	VCP-Left side	☐ ..2 ☒ ..4	10 (+)	A		
		☐ ..6 ☐ ..8	10 (-)	A		
4	VCP-Right side	☐ ..2 ☒ ..4	10 (+)	A		
		☐ ..6 ☐ ..8	10 (-)	A		
5	HCP	☐ ..2 ☒ ..4	10 (+)	A		
		☐ ..6 ☐ ..8	10 (-)	A		

Direct discharge

No.	Test Point	Contact discharge level (kV)	Air discharge level (kV)	Number and polarity	Criterion met	Criterion Required	Result
1	Each nonconductive location touchable by hand	☐ ..2 ☐ ..4	☐ ..2 ☐ ..4	10 (+)	A	B	Compliance
		☐ ..6 ☐ ..8	☐ ..6 ☒ ..8	10 (-)	A		
2	Each conductive location touchable by hand	☐ ..2 ☐ ..4	☐ ..2 ☐ ..4	10 (+)	N/A		
		☐ ..6 ☐ ..8	☐ ..6 ☐ ..8	10 (-)	N/A		

Note1: Please see the photographs blew about the details of test points.

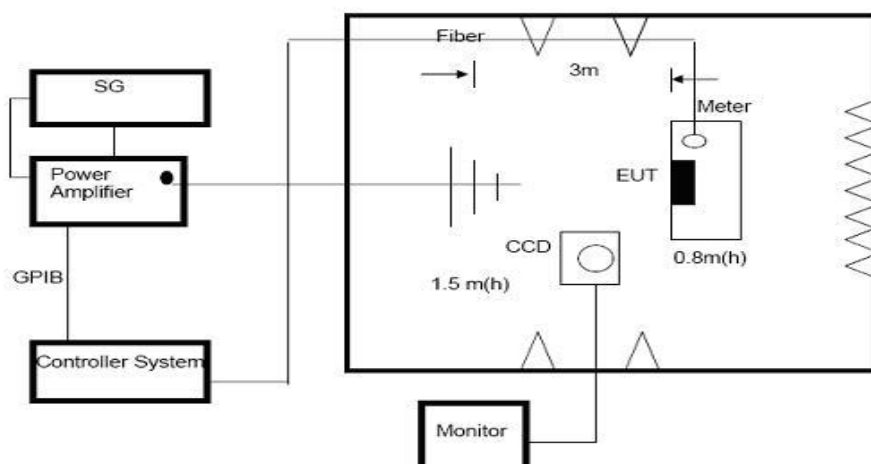


6.3 Radiated electromagnetic field immunity (RS)

6.3.1. Test Procedures

- a) The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.
- b) The testing distance from antenna to the EUT was 3 meters.
- c) The other condition as following manner:
 - i. The field strength level was 3V/m.
 - ii. The frequency range is swept from 80 MHz to 1000 MHz with the signal 80% amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5×10^{-3} decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- d) The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- e) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.
- f) For the actual test configuration, please refer to the related Item –EUT Test Photos.

6.3.2. Test setup



6.3.3. Test Result

Temperature:	25°C	Relative Humidity:	55%
Pressure:	101kPa	Test mode:	Mode 1

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Perform. Criteria	Measurement	Result
80- 1000 1800 2600 3500 5000	H / V	3 V/m (rms) AM Modulated 1000Hz, 80%	Front	A	A	Compliance
			Rear			
			Left			
			Right			

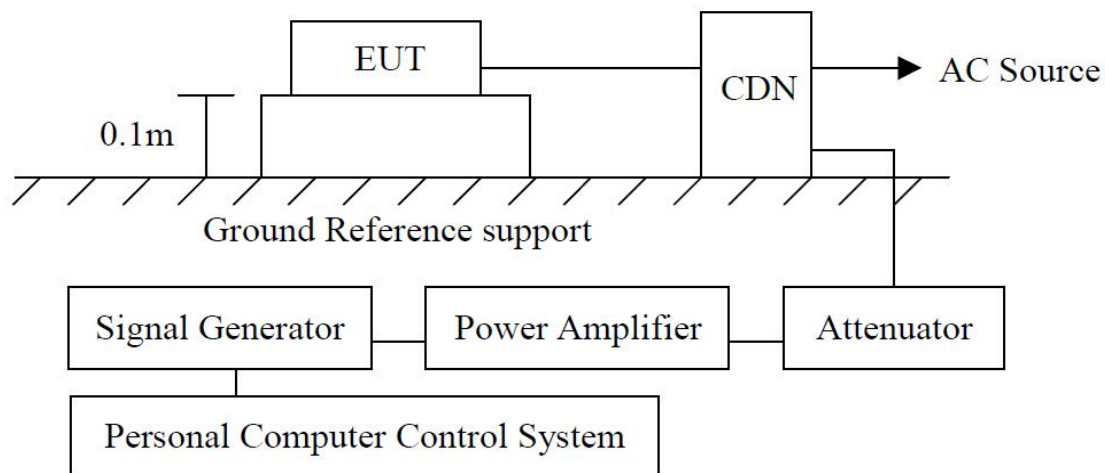


6.4 Conducted disturbances (CS)

6.4.1. Test Procedures

- The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- The disturbance signal described below is injected to EUT through CDN.
- The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- The frequency range is swept from 0.150MHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1 kHz sine wave.
- The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally; the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

6.4.2. Test Setup



6.4.3. Test Result

Not applicable

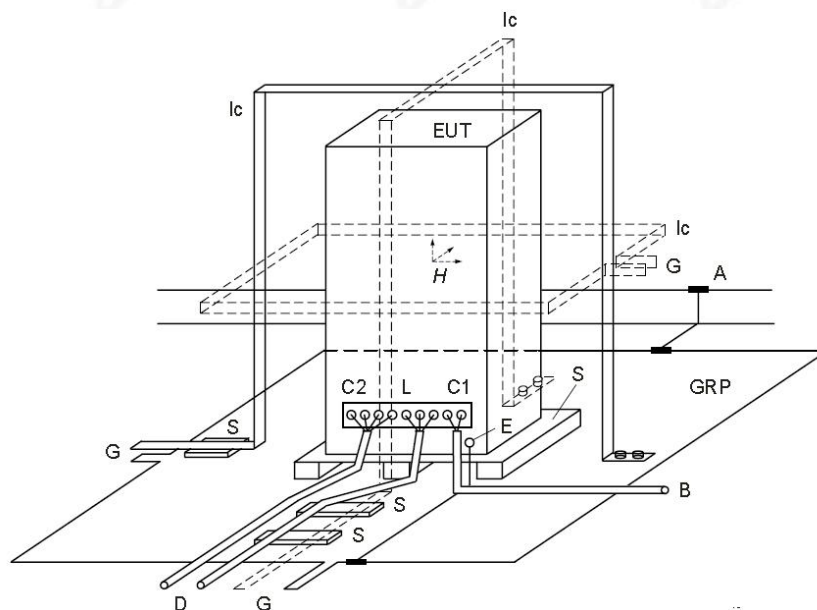


6.5 Power frequency magnetic field

6.5.1. Test Procedures

- EUT connect the wires according to the typical configuration, and switch on the power supply for 15 minutes.
- Turn on the instrument power switch and wait for the instrument to start.
- When the device is started, click the Setup icon to enter the settings screen
- As shown below, for the settings screen, click the test time position and current position to set the test time and current
- Set the correct test time and test current
- Click Start to begin the test, while observing the status of EUT and recording

6.5.2. Test Setup



Components:

GRP	Ground plane	A	Safety earth
C1	Power supply circuit	C2	Signal circuit
S	Insulating support	L	Communication line
EUT	Equipment under test	B	To power supply source
Ic	Inductive coil	D	To signal source, simulator
E	Earth terminal	G	To the test generator

6.5.3. Test Result

N/A



6.6 Electrical fast transients/burst (EFT/S)

6.6.1. Test Procedures

a) The EUT and its simulators were placed on the ground reference plane and were insulated from it by a wood support 0.1m + 0.01m thick. The ground reference plane was 1m*1m metallic sheet with 0.65mm minimum thickness. This reference ground plane was project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane was more than 0.5m. All cables to the EUT was placed on the wood support, cables not subject to EFT/B was routed as far as possible from the cable under test to minimize the coupling between the cables.

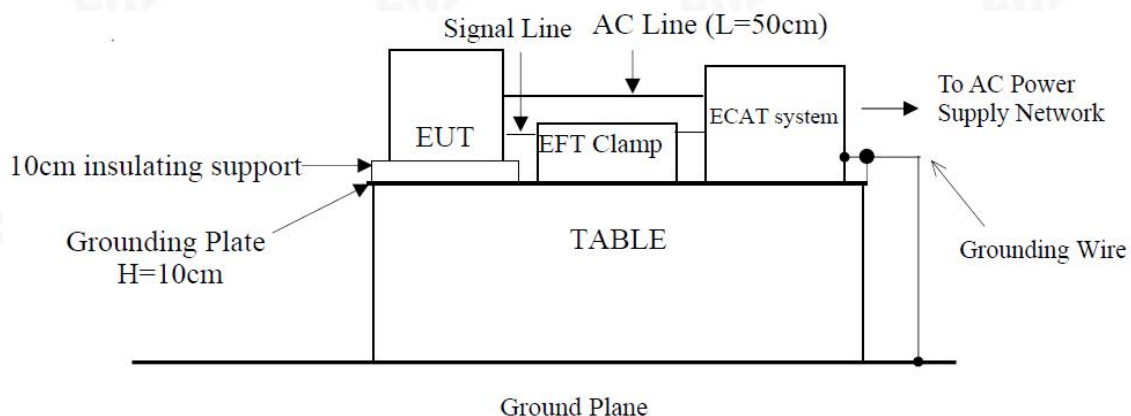
b) For input and AC power ports:

The EUT was connected to the power mains by using a coupling device that couples the EFT interference signal to AC power lines. Both positive transients and negative transients of test voltage were applied during compliance test and the duration of the test can't less than 1min.

c) For signal lines and control lines ports:

Ports which are intended to be connected to telecommunication networks (e.g. public switched telecommunication networks, integrated services digital networks, local area networks and similar networks.)

6.6.2. Test Setup



6.6.3. Test Result

N/A

The product is powered by Adapter DC and this project is not applicable

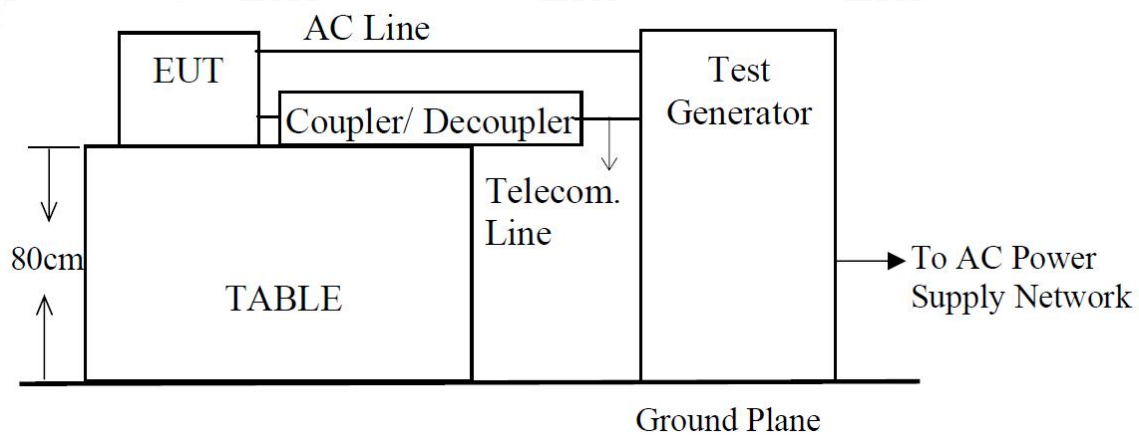


6.7 Surges

6.7.1. Test Procedures

- For line-to-line coupling mode, provide a 1kV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points, and for active line / neutral lines to ground are same except test level is 2kV.
- At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are applied during test.
- Different phase angles are done individually.
- Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

6.7.2. Test Setup



6.7.3. Test Result

N/A

The product is powered by Adapter DC and this project is not applicable

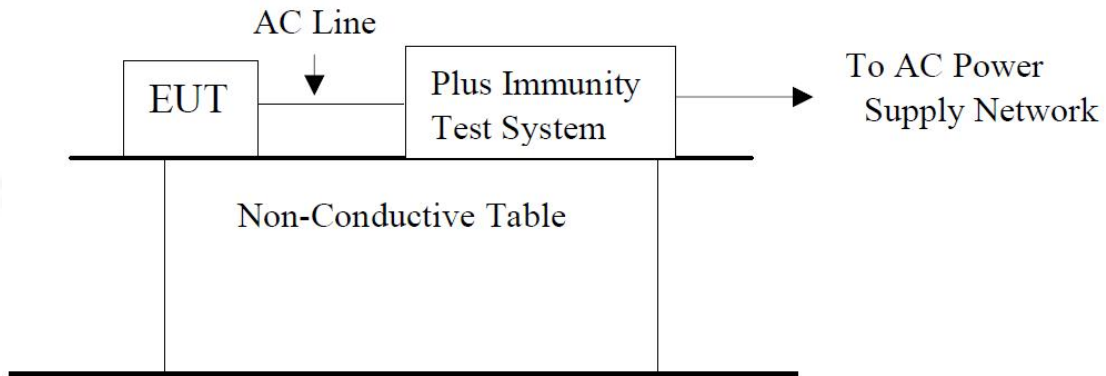


6.8 Voltage dips and interruptions

6.8.1. Test procedures

- The interruptions are introduced at selected phase angles with specified duration.
- Record any degradation of performance

6.8.2. Test setup



6.8.3. Test result

N/A

The product is powered by Adapter DC and this project is not applicable

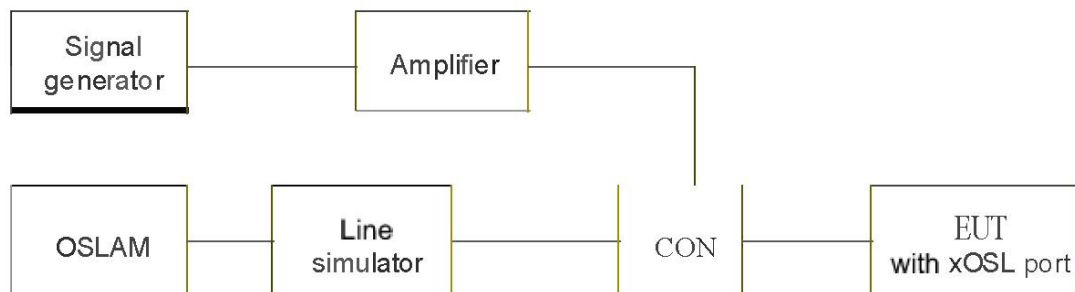
6.9 Broadband Impulse noise disturbances repetitive



6.9.1. Test procedures

- a) The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- b) The disturbance signal described below is injected to EUT through CDN.
- c) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- d) The xOSL technology or 30 MHz, whichever is the lowest using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 128 kHz sine wave.
- e) The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally; the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- f) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

6.9.2. Test setup



6.9.3. Test result

N/A

The product is powered by Adapter DC and this project is not applicable

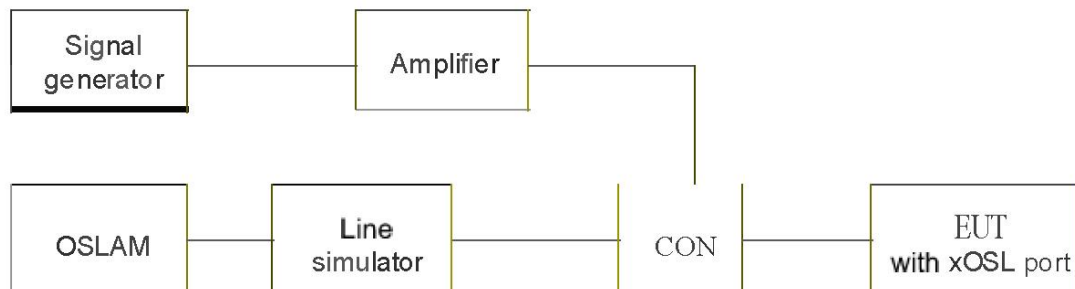


6.10 Broadband Impulse noise disturbances isolated

6.10.1. Test procedures

- a) The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- b) The disturbance signal described below is injected to EUT through CDN.
- c) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- d) The xOSL technology or 30 MHz, whichever is the lowest using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 128 kHz sine wave.
- e) The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally; the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- f) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

6.10.2. Test setup



6.10.3.

6.10.4. Test result

N/A

The product is powered by Adapter DC and this project is not applicable



7 Photographs of the EUT

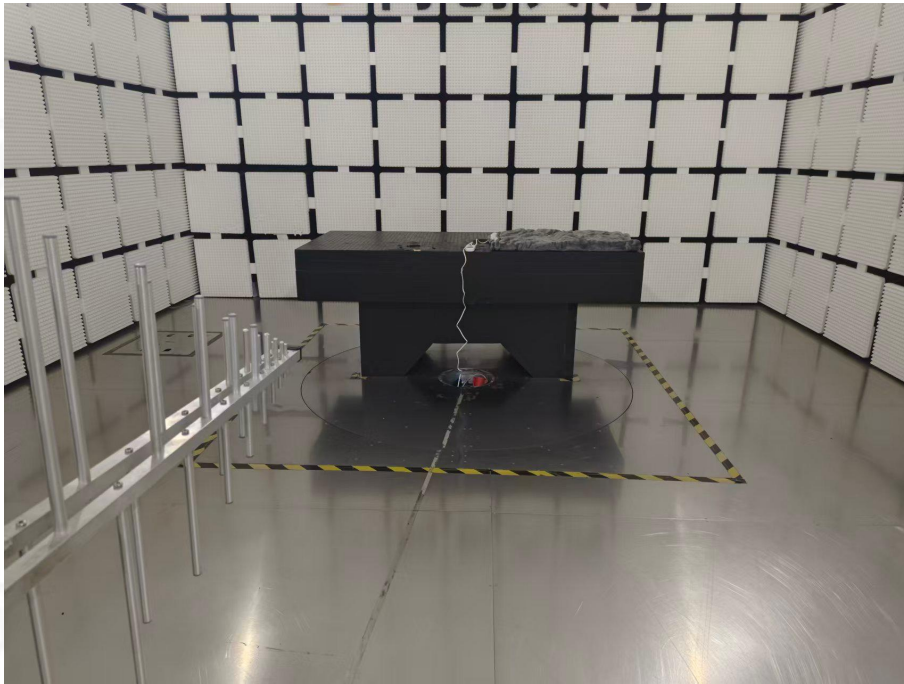


Photo 1 Test photo



Photo 2 Test photo



Photo 3 External view

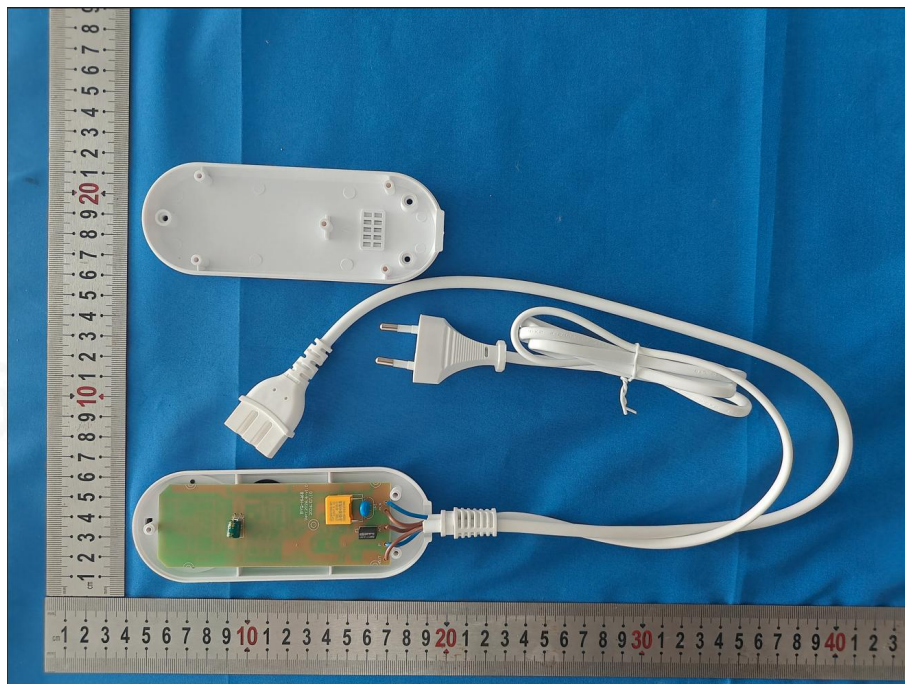


Photo 4 Internal view

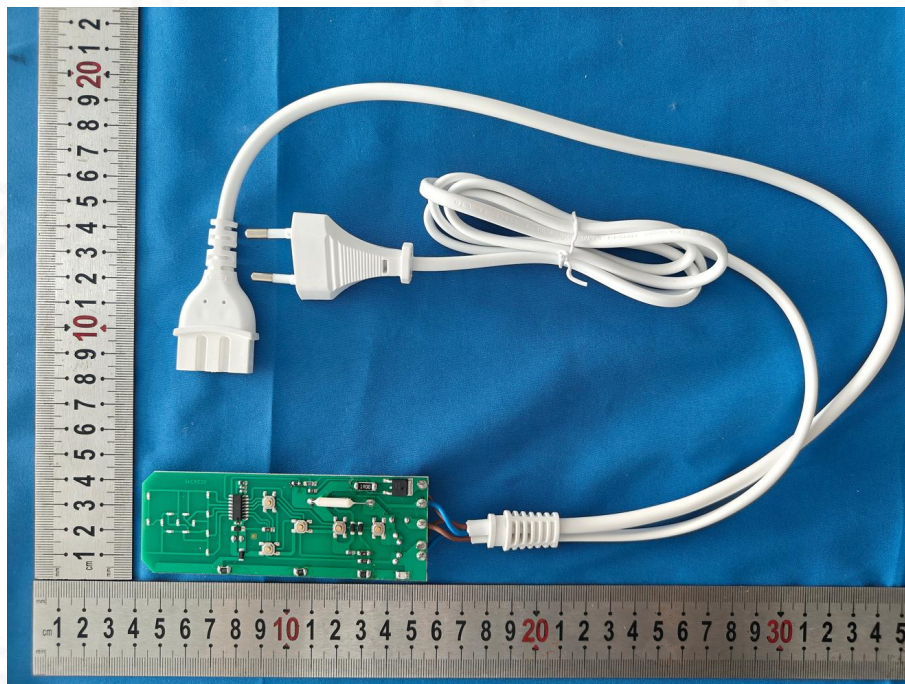


Photo 5 Internal view

----END OF REPORT----