



EMC REPORT

Prepared For :	Mid Ocean Brands B.V. Add: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Product Name:	Mug warmer in bamboo
Trade Name	N/A
Model :	MO2592
Models Difference:	The samples in the report are only different in appearance color, the material and internal structure are exactly the same, so only the white sample of the main model is tested.
Prepared By :	Shenzhen SIT Testing Technology Co.,Ltd. Add: Room 401, Building A2, The 2nd Industrial Zone of Zhu'ao, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Test Date:	April 17, 2025 to April 24, 2025
Date of Report :	April 24, 2025
Report No.:	SIT250414160301ER

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1 TEST CERTIFICATION

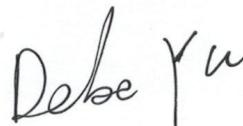
Product: Mug warmer in bamboo**Model:** MO2592**Trade Mark:** N/A**Applicant:** Mid Ocean Brands B.V.

Add: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

Manufacturer: 114628**Tested:** April 17, 2025 to April 24, 2025**Test Voltage:** DC 5V**Applicable Standards:**
EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A2:2021

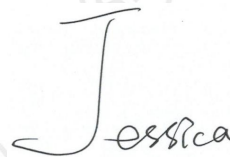
The above equipment has been tested by Shenzhen SIT Testing Technology Co.,Ltd.,and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Prepared by :



Assistant

Reviewer :



Supervisor

Approved & Authorized Signer :



2 TEST RESULT SUMMARY

EMISSION			
Standard	Item	Result	Remarks
EN IEC 55014-1:2021	Conducted (Main Port)	N/A	Meet limit
	Radiated	PASS	Meet limit
	Disturbance power	N/A	Meet limit
EN IEC 61000-3-2:2019+A1:2021	Harmonic current emissions	N/A	Meet limit
EN 61000-3-3:2013+A2:2021	Voltage fluctuations & flicker	N/A	Meet limit

IMMUNITY 【EN IEC 55014-2:2021】			
Standard	Item	Result	Remarks
EN 61000-4-2:2009	ESD	PASS	Meets the requirements of Performance Criterion B
EN IEC 61000-4-3:2020	RS	PASS	Meets the requirements of Performance Criterion B
EN 61000-4-4:2012	EFT	N/A	Meets the requirements of Performance Criterion B
EN 61000-4-5:2014+A1:2017	Surge	N/A	Meets the requirements of Performance Criterion B
EN 61000-4-6:2014+AC:2015	CS	N/A	Meets the requirements of Performance Criterion B
EN 61000-4-8: 2010	PFMF	N/A	Meets the requirements of Performance Criterion B
EN IEC 61000-4-11:2020	Voltage dips & voltage variations	N/A	Meets the requirements of Voltage dips: 1) >95% reduction performance Criterion B 2) 30% reduction performance Criterion C Voltage variations: 1)>95% reduction performance Criterion C

Note: 1. The test result judgment is decided by the limit of test standard
2. The information of measurement uncertainty is available upon the customer's request.

3 EUT DESCRIPTION

Product	Mug warmer in bamboo
Model	MO2592
Trade Mark	N/A
Applicant	Mid Ocean Brands B.V.
Housing material	bamboo&metal&plastic
EUT Type	<input checked="" type="checkbox"/> Engineering Sample. <input type="checkbox"/> Product Sample, <input type="checkbox"/> Mass Product Sample.
Serial Number	N/A
EUT Power Rating	Input: 5V $\overline{\text{---}}$, 5W

4 TEST METHODOLOGY

4.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the thereafter additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The following test mode(s) were scanned during the preliminary test:

Pre-Test Mode		
Emission	Conducted Emission	Mode : N/A
	Radiated Emission	Mode : Normal working
	Disturbance power	Mode : N/A

After the preliminary scan, the following test mode was found to produce the highest emission level.

The Worst Test Mode		
Emission	Conducted Emission	Mode : N/A
	Radiated Emission	Mode : Normal working
	Disturbance power	Mode : N/A

4.2. EUT SYSTEM OPERATION

1. Set up EUT with the support equipments.
2. Make sure the EUT work normally during the test.

5 SETUP OF EQUIPMENT UNDER TEST

5.1. 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.

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.

5.2. CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Mug warmer in bamboo)

6 FACILITIES AND ACCREDITATIONS

6.1. FACILITIES

All measurement facilities used to collect the measurement data are located at SIT LAB.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 14. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.sit-cert.com>

6.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency		Uncertainty
Conducted emissions	150kHz~30MHz		+/- 3.59dB
Disturbance power	30MHz~300MHz		+/- 4.77dB
Radiated emissions	Horizontal	30MHz ~ 200MHz	+/- 4.77dB
		200MHz ~1000MHz	+/- 4.93dB
	Vertical	30MHz ~ 200MHz	+/- 5.04dB
		200MHz ~1000MHz	+/- 4.93dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

7 EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. LIMITS

FREQUENCY (MHz)	At mains terminal		At load terminal and additional terminal	
	1	2	3	4
0.15 - 0.5	66 - 56	59 - 46	80	70
0.50 - 5.0	56	46	74	64
5.0 - 30.0	60	50	74	64

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

7.1.2. TEST INSTRUMENTS

Conducted Emission Shielding Room Test Site (843)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	100005	09/23/2025
LISN	AFJ	LS16	16010222119	09/19/2025
LISN(EUT)	Mestec	AN3016	04/10040	09/19/2025

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).
2. N.C.R = No Calibration Request.

7.1.3. TEST PROCEDURES

Procedure of Preliminary Test

The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When 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 EN IEC 55014-1 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

All I/O cables were positioned to simulate typical actual usage as per EN IEC 55014-1.

All support equipment power received from a second LISN.

The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in Item 3.1 were scanned during the preliminary test.

After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.

The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

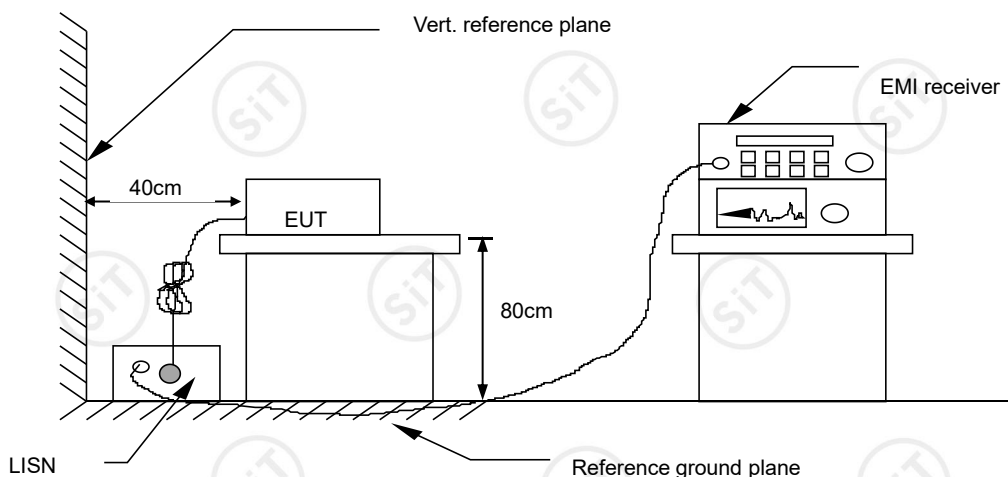
Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

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

7.1.4. TEST SETUP



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

7.1.5. TEST RESULTS

Model No.	MO2592	Pressure	1010hPa
Environmental Conditions	26°C,60% RH	Test Mode	Normal working
Detector Function	Peak / Quasi-peak/AV	Test Result	N/A
Test By	DebeYu		

NOTE:

L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

“---” denotes the emission level was or more than 2dB below the Average limit, so no re-check anymore.

Freq. = Emission frequency in MHz

Reading level(dBuV) = Receiver reading

Corr. Factor (dB) = attenuator + Cable loss

Level (dBuV) = Reading level(dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Level (dBuV) – Limits (dBuV)

Q.P.=Quasi-Peak

7.2. RADIATED EMISSION MEASUREMENT

7.2.1. LIMITS

FREQUENCY (MHz)	dBuV/m (At 3m)
	Limit
30 ~ 230	40
230 ~ 1000	47

NOTE: (1) The lower limit shall apply at the transition frequencies.
(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

7.2.2. TEST INSTRUMENTS

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	100005	09/14/2025
Spectrum Analyzer	R&S	FSU	100114	09/09/2025
Pre Amplifier	H.P.	HP8447E	2945A02715	09/14/2025
Bilog Antenna	SUNOL Sciences	JB3	A021907	09/09/2025
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	09/09/2025
System-Controller	CCS	N/A	N/A	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).
2. N.C.R = No Calibration Request.

7.2.3. TEST PROCEDURE

Procedure of Preliminary Test

The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

Support equipment, if needed, was placed as per EN 55032.

All I/O cables were positioned to simulate typical usage as per EN 55032.

Mains cables, telephone lines or other connections to auxiliary equipment located outside the test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.

The antenna was placed at 3 meter away from the EUT as stated in EN 55032. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.

The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

The test mode(s) described in Item 3.1 were scanned during the preliminary test:

After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

Procedure of Final Test

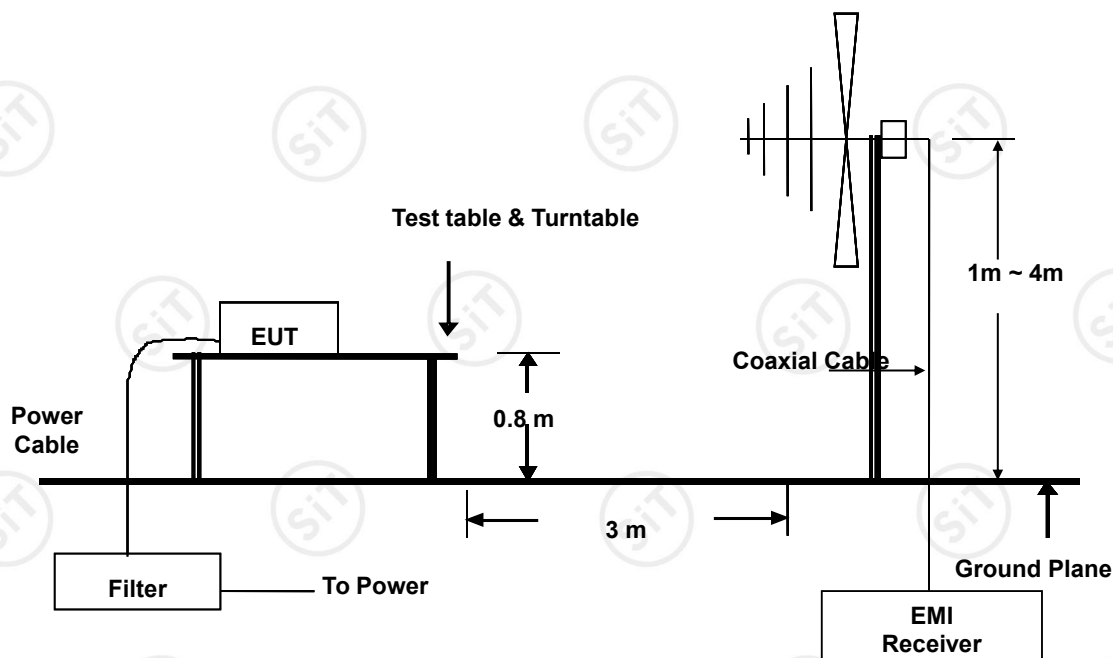
EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.

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

7.2.4. TEST SETUP



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

7.2.5 TEST RESULTS

Model No.	MO2592	Test Mode	Normal working
Environmental Conditions	26°C, 60% RH	Pressure	1010hPa
Antenna Pole	Vertical / Horizontal	Antenna Distance	3m
Detector Function	Peak / Quasi-peak	Tested by	DebeYu

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

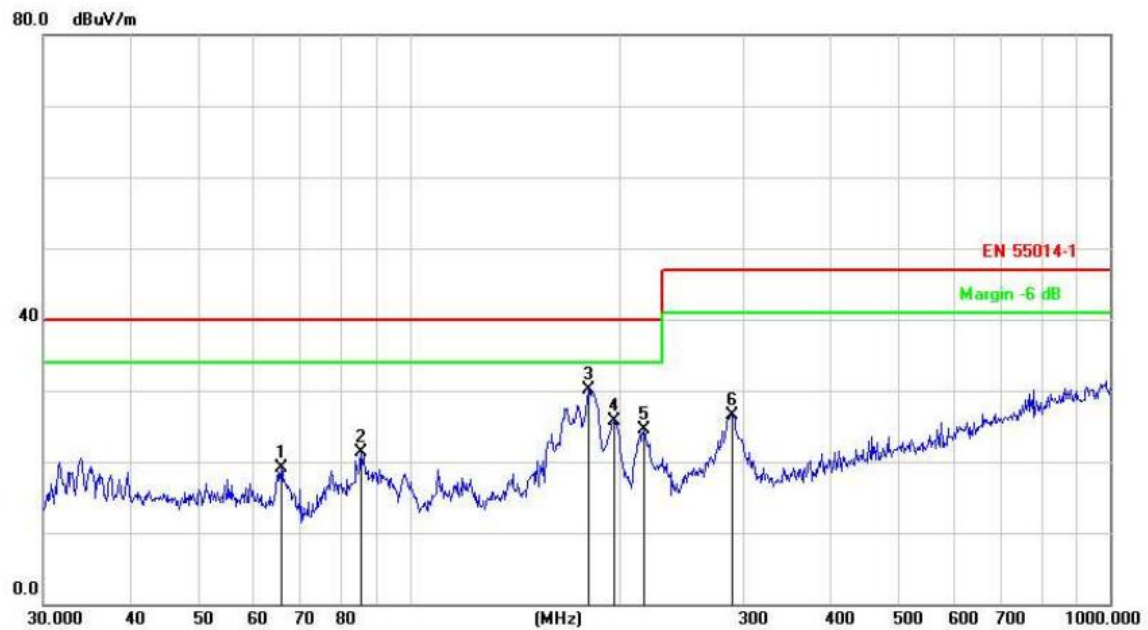
Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Radiated Emission Measurement



Site LAB

Polarization: **Horizontal**

Temperature:

Limit: EN 55014-1

Power:

Humidity: %

EUT: Mug warmer in bamboo

Distance: 3m

M/N: MO2592

Mode:

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		65.5726	32.51	-13.46	19.05	40.00	-20.95	peak		
2		85.2980	36.99	-15.73	21.26	40.00	-18.74	peak		
3	*	180.0165	42.63	-12.49	30.14	40.00	-9.86	peak		
4		195.8220	39.57	-13.81	25.76	40.00	-14.24	peak		
5		216.0240	38.71	-14.22	24.49	40.00	-15.51	peak		
6		289.0020	37.50	-10.96	26.54	47.00	-20.46	peak		

Radiated Emission Measurement



Site LAB

Polarization: **Vertical**

Temperature:

Limit: EN 55014-1

Power:

Humidity: %

EUT: Mug warmer in bamboo

Distance: 3m

M/N: MO2592

Mode:

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		38.6160	43.79	-11.50	32.29	40.00	-7.71	peak		
2		47.6584	40.96	-11.78	29.18	40.00	-10.82	peak		
3		65.1145	43.47	-13.42	30.05	40.00	-9.95	peak		
4		97.4560	47.07	-15.04	32.03	40.00	-7.97	peak		
5	!	173.8135	48.69	-11.39	37.30	40.00	-2.70	QP		
6	*	182.5592	50.38	-12.88	37.50	40.00	-2.50	QP		

7.3. DISTURBANCE POWER MEASUREMENT

7.3.1. LIMITS

FREQUENCY (MHz)	Quasi-Peak (dBpW)	Average (dBpW)
30 ~ 300	45 – 55	35 – 45

NOTE: (1) The lower limit shall apply at the transition frequency.

7.3.2. TEST INSTRUMENTS

Shielding Room(843)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	100005	09/23/2025
ABSORBING CLAMP	FCC	F-201-23mm	160	09/16/2025
CABLE	TIME MICROWAVE	LMR-400	N-TYPE04	09/27/2025

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

2. N.C.R = No Calibration Request.

7.3.3. TEST PROCEDURE

Procedure of Preliminary Test

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 main lead would put on 6 m long testing bench of (if main lead is shorter than 6 m it should be extended) as per CISPR 14/EN IEC 55014-1.

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 EUT test program was started. Emissions were scanned and measured using a receiver connected to the absorbing clamp.

The absorbing clamp is positioned for maximum indication at each test frequency (30MHz to 300MHz), that means is clamp moved along the main lead until the maximum emission value is found.

The test mode(s) described in Item 3.1 were scanned during the preliminary test:

After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.

The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

Procedure of Final Test

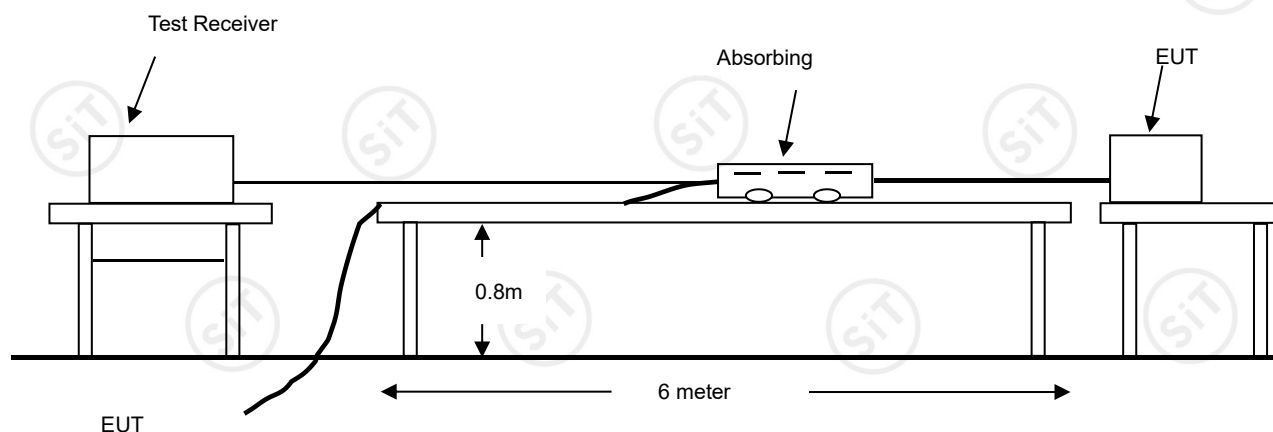
EUT and support equipment were set up on the wooden table as per step 6 of the preliminary test.

The receiver scanned from 30MHz to 300MHz. 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. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.

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

7.3.4. TEST SETUP



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

7.3.5 TEST RESULTS

Model No.	MO2592	Test Mode	Normal working
Environmental Conditions	26°C, 60% RH	Pressure	1010hPa
Detector Function	Peak / Quasi-Peak/AV	Test Result	N/A
Test By	DebeYu		

Freq. = Emission frequency in MHz

Reading level(dBpW) = Receiver reading

Corr. Factor (dB) = Attenuator factor + Cable loss

Measurement (dBpW) = Reading level(dBpW) + Corr. Factor (dB)

Limit (dBpW) = Limit stated in standard

Margin (dB) = Measurement (dBpW) – Limits (dBpW)

7.4. HARMONICS CURRENT MEASUREMENT

7.4.1. LIMITS OF HARMONICS CURRENT MEASUREMENT

Limits for Class A equipment		Limits for Class D equipment		
Harmonics Order n	Max. permissible harmonics current A	Harmonics Order n	Max. permissible harmonics current per watt mA/W	Max. permissible harmonics current A
Odd harmonics		Odd Harmonics only		
3	2.12	3	3.5	2.12
5	1.20	5	1.5	1.20
7	0.90	7	1.2	0.90
9	0.44	9	0.55	0.44
11	0.35	11	0.45	0.35
13	0.34	13	0.40	0.34
15<=n<=39	0.15x15/n	15<=n<=39	3.85/n	0.15x15/n
Even harmonics				
2	1.00			
4	0.45			
6	0.48			
8<=n<=40	0.23x8/n			

NOTE: 1. Class A and Class D are classified according to item 4.4.3.

2. According to section 7 of EN IEC 61000-3-2, the above limits apply for all equipments with a rated power more than 75W, except for lighting equipment.

7.4.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Harmonic & Flicker Tester	California instruments	PACS-3	SB2588/01	09/20/2025
AC Power Source	California instruments	5001iX-CTS-40	SB2588	09/20/2025

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

7.4.3. TEST PROCEDURE

The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under LIGHTING operating conditions for each successive harmonic component in turn.

The classification of EUT is according to section 5 of EN IEC 61000-3-2.

The EUT is classified as follows:

Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.

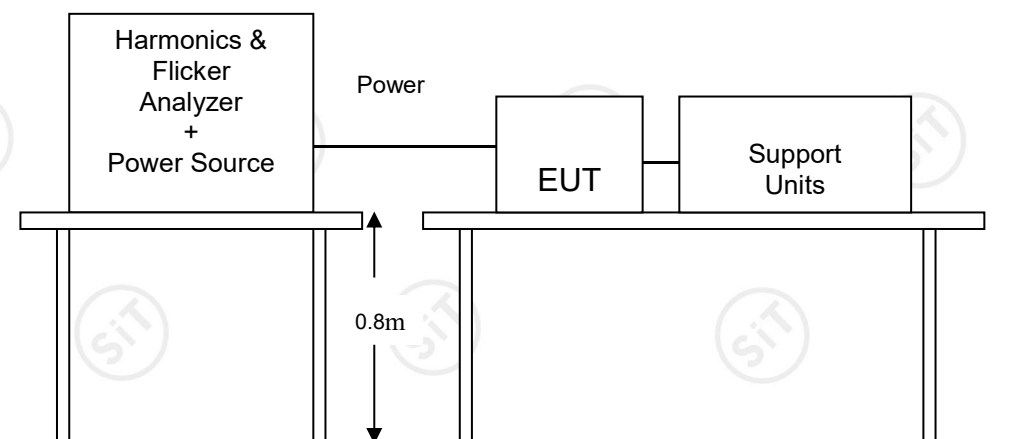
Class B: Portable tools; Arc welding equipment which is not professional equipment.

Class C: ON equipment.

Class D: Equipment having a specified power less than or equal to 600 W of the following types: Personal computers and personal computer monitors and television receivers.

The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

7.4.4. TEST SETUP



For the actual test configuration, please refer to the related item .

7.4.5. TEST RESULTS

POWER CONSUMPTION	5W	Test Results	N/A
ENVIRONMENTAL CONDITIONS	25.5deg.C, 55% RH, 992 hPa	Limits	Class <input type="checkbox"/> A <input type="checkbox"/> B <input checked="" type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> N/A
Test Mode	Fevering	Tested by	Debeyu

NOTE: 1. Limits classified according to item 7.3.1.

2. There is no need for Harmonics test to be performed on this product(rated power is less than 75W) in accordance with EN IEC 61000-3-2:2019+A1:2021.

For further details, please refer to Clause 7 of EN IEC 61000-3-2:2019+A1:2021 which states:

“For the following categories of equipment, limits are not specified in this edition of the standard:

7.5. VOLTAGE FLUCTUATION AND FLICKS MEASUREMENT

7.5.1. LIMITS OF VOLTAGE FLUCTUATION AND FLICKS MEASUREMENT

TEST ITEM	LIMIT	REMARK
P_{st}	1.0	P_{st} means short-term flicker indicator.
P_{lt}	0.65	P_{lt} means long-term flicker indicator.
T_{dt} (ms)	500	T_{dt} means maximum time that dt exceeds 3 %.
d_{max} (%)	4%	d_{max} means maximum relative voltage change.
dc (%)	3.3%	dc means relative steady-state voltage change

7.5.2. TEST INSTRUMENTS

IMMUNITY SHIELDED ROOM				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Harmonic & Flicker Tester	California instruments	PACS-3	SB2588/01	09/20/2025
AC Power Source	California instruments	5001iX-CTS-40	SB2588	09/20/2025

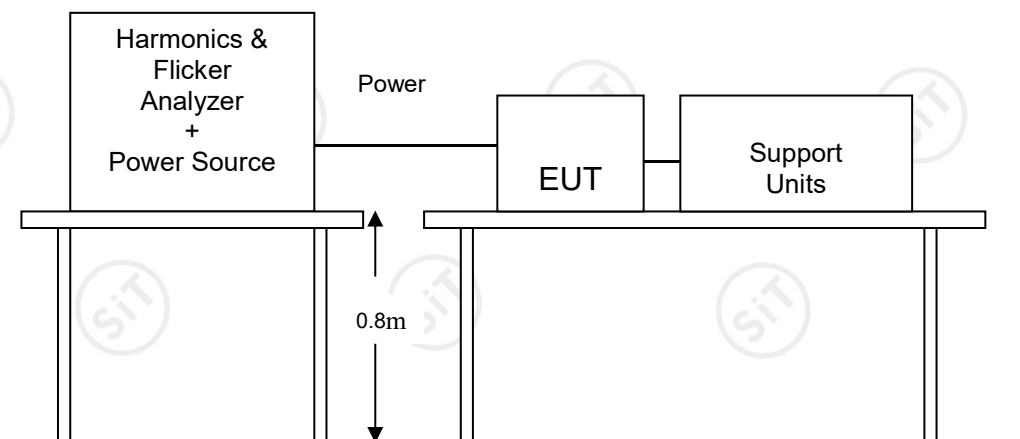
NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

7.5.3. TEST PROCEDURE

The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the most unfavorable sequence of voltage changes under LIGHTING operating conditions.

During the flick measurement, the measure time shall include that part of whole operation cycle in which the EUT produce the most unfavorable sequence of voltage changes. The observation period for short-term flicker indicator is 10 minutes and the observation period for long-term flicker indicator is 2 hours.

7.5.4. TEST SETUP



For the actual test configuration, please refer to the related item.

7.5.5. TEST RESULTS

OBSERVATION PERIOD (Tp)	10mins	Test Mode	Normal working
ENVIRONMENTAL CONDITIONS	25.5deg.C, 55% RH, 996 hPa	Tested by:	DebeYu
Test Result	PASS		

8 IMMUNITY TEST

8.1. GENERAL DESCRIPTION

Product Standard	EN IEC 55014-2:2021	
	Test Type	Minimum Requirement
Basic Standard, Specification, and Performance Criterion required	EN 61000-4-2	Electrostatic Discharge – ESD: 8kV air discharge, 4kV Contact discharge, Performance Criterion B
	EN 61000-4-4	Electrical Fast Transient/Burst - EFT, Power line: 1kV, Signal line: 0.5kV, Performance Criterion B
	EN 61000-4-5	Surge Immunity Test: 1.2/50 us Open Circuit Voltage, 8 /20 us Short Circuit Current, Power Port ~ Line to line: 1kV, Line to ground: 2kV Signal Port ~ Lines to ground : 1kV Performance Criterion B
	EN 61000-4-6	Conducted Radio Frequency Disturbances Test –CS: 0.15 ~ 230 MHz, 3Vrms, 80% AM, 1kHz, Performance Criterion A
	EN 61000-4-8	N/A
	EN IEC 61000-4-11	Voltage Dips: i) 30% reduction for 50 period, Performance Criterion C ii) 60% reduction for 10 period, Performance Criterion C Voltage Interruptions: 100% reduction for 0.5 period Performance Criterion C

8.2. GENERAL PERFORMANCE CRITERIA DESCRIPTION

Criteria A:	The apparatus shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. If the manufacturer does not specify the minimum performance level or the permissible performance loss, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
Criteria B:	<p>After test, the apparatus shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomenon below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance.</p> <p>During the test, degradation of performance is however allowed. However, no change of operating state if stored data is allowed to persist after the test. If the manufacturer does not specify the minimum performance level or the permissible performance loss, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.</p>
Criteria C:	<p>Temporary loss of function is allowed, provided the functions is self-recoverable or can be restored by the operation of controls by the user in accordance with the manufacturer instructions.</p> <p>Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.</p>

8.3. ELECTROSTATIC DISCHARGE (ESD)

8.3.1. TEST SPECIFICATION

Basic Standard:	EN 61000-4-2
Discharge Impedance:	330 ohm
Charging Capacity:	150pF
Discharge Voltage:	Air Discharge: 8 kV (Direct) Contact Discharge: 4 kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Minimum 10 times at each test point
Discharge Mode:	1 time/s
Performance Criterion:	B

8.3.2. TEST INSTRUMENT

IMMUNITY SHIELDED ROOM				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESD 2000	EMC PARTNER	ESD2000	182	09/21/2025

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

8.3.3. TEST PROCEDURE

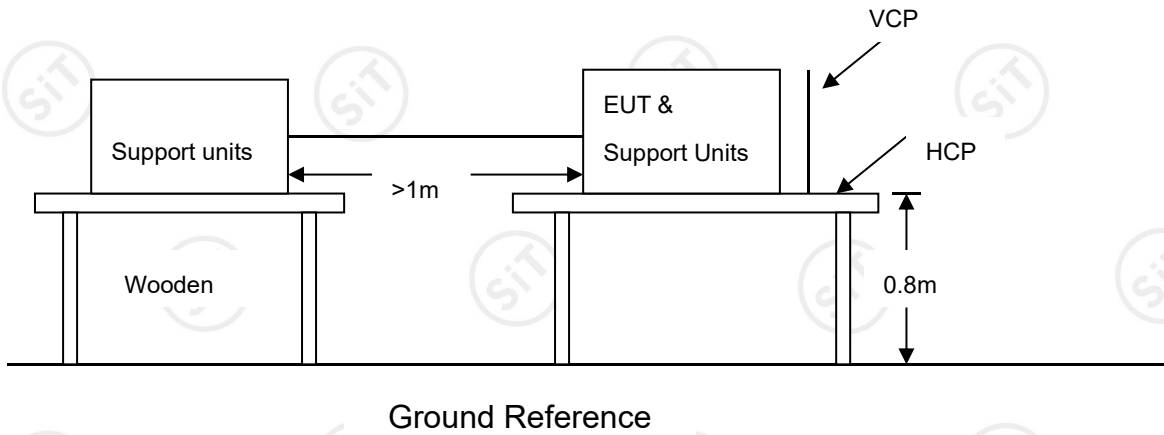
The discharges shall be applied in two ways:

- a) Contact discharges to the conductive surfaces and coupling planes:
Twenty dischargers (10 with positive and 10 with negative polarity) shall be applied on each accessible metallic part of the enclosure, terminals are excluded. In case of a non-conductive enclosure, dischargers shall be applied on the horizontal or vertical coupling planes. Test shall be performed at a maximum repetition rate of one discharge per second.
- b) Air discharges at slots and apertures and insulating surfaces:
On those parts of the EUT where it is not possible to perform contact discharge testing, the equipment should be investigated to identify user accessible points where breakdown may occur. Such points are tested using the air discharge method. This investigation should be restricted to those area normally handled by the user. A minimum of 10 single air discharges shall be applied to the selected test point for each such area.

The basic test procedure was in accordance with IEC 61000-4-2:

- a) The EUT was located 0.1 m minimum from all side of the **HCP** (dimensions 1.6m x 0.8m).
- b) The support units were located another table 30 cm away from the EUT, but direct support unit was/were located at same location as EUT on the HCP and keep at a distance of 10 cm with EUT.
- c) The time interval between two successive single discharges was at least 1 second.
- d) Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.
- e) Air discharges were applied with the round discharge tip of the discharge electrode approaching the EUT as fast as possible (without causing mechanical damage) to touch the EUT. After each discharge, the ESD generator was removed from the EUT and re-triggered for a new single discharge. The test was repeated until all discharges were complete.
- f) At least ten single discharges (in the most sensitive polarity) were applied at the front edge of each **HCP** opposite the center point of each unit of the EUT and 0.1 meters from the front of the EUT. The long axis of the discharge electrode was in the plane of the **HCP** and perpendicular to its front edge during the discharge.
- g) At least ten single discharges (in the most sensitive polarity) were applied to the center of one vertical edge of the **Vertical Coupling Plane (VCP)** in sufficiently different positions that the four faces of the EUT were completely illuminated. The **VCP** (dimensions 0.5m x 0.5m) was placed vertically to and 0.1 meters from the EUT.

8.3.4. TEST SETUP



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

NOTE:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the **Ground Reference Plane**. The **GRP** consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A **Horizontal Coupling Plane** (1.6m x 0.8m) was placed on the table and attached to the **GRP** by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of EN 61000-4-2, and its cables were placed on the **HCP** and isolated by an insulating support of 0.5mm thickness. A distance of 1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in section 7 of IEC 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.

8.3.5. TEST RESULTS

Temperature:	25°C	Humidity	55% RH
Pressure	996mbar	Test result	Pass
Test mode	Normal working	Test By	DebeYu

Air Discharge						
Test locations		Test Levels	Results			
		± 8 kV	Pass	Fail	Performance Criterion	Observation
Slot	4 Points	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	B	Note <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2
Button	4Points	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	B	Note <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

Contact Discharge						
Test locations		Test Levels	Results			
		± 4 kV	Pass	Fail	Performance Criterion	Observation
Metal	4 Points	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	B	Note <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2
HCP	4 Points	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	B	Note <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2
VCP	4 Points	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	B	Note <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

NOTE: 1. There was no change compared with initial operation during the test.

2. The loss of function of the EUT during the test and it was recovered by itself operation after the test.

8.4. RADIATED, RADIO-FREQUENCY, ELECTROMAGNETIC FIELD (RS)

Basic Standard:	EN IEC 61000-4-3
Frequency Range:	80 MHz ~1000 MHz,
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of preceding frequency value
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5m
Performance Criterion:	A

8.4.2. TEST INSTRUMENT

743 RS Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Signal Generator	Maconi	2022D	119246/003	09/19/2025
Power Amplifier	M2S	A00181-1000	9801-112	09/19/2025
Power Amplifier	M2S	AC8113/ 800-250A	9801-179	09/19/2025
Power Antenna	SCHAFFNER	CBL6140A	1204	09/19/2025

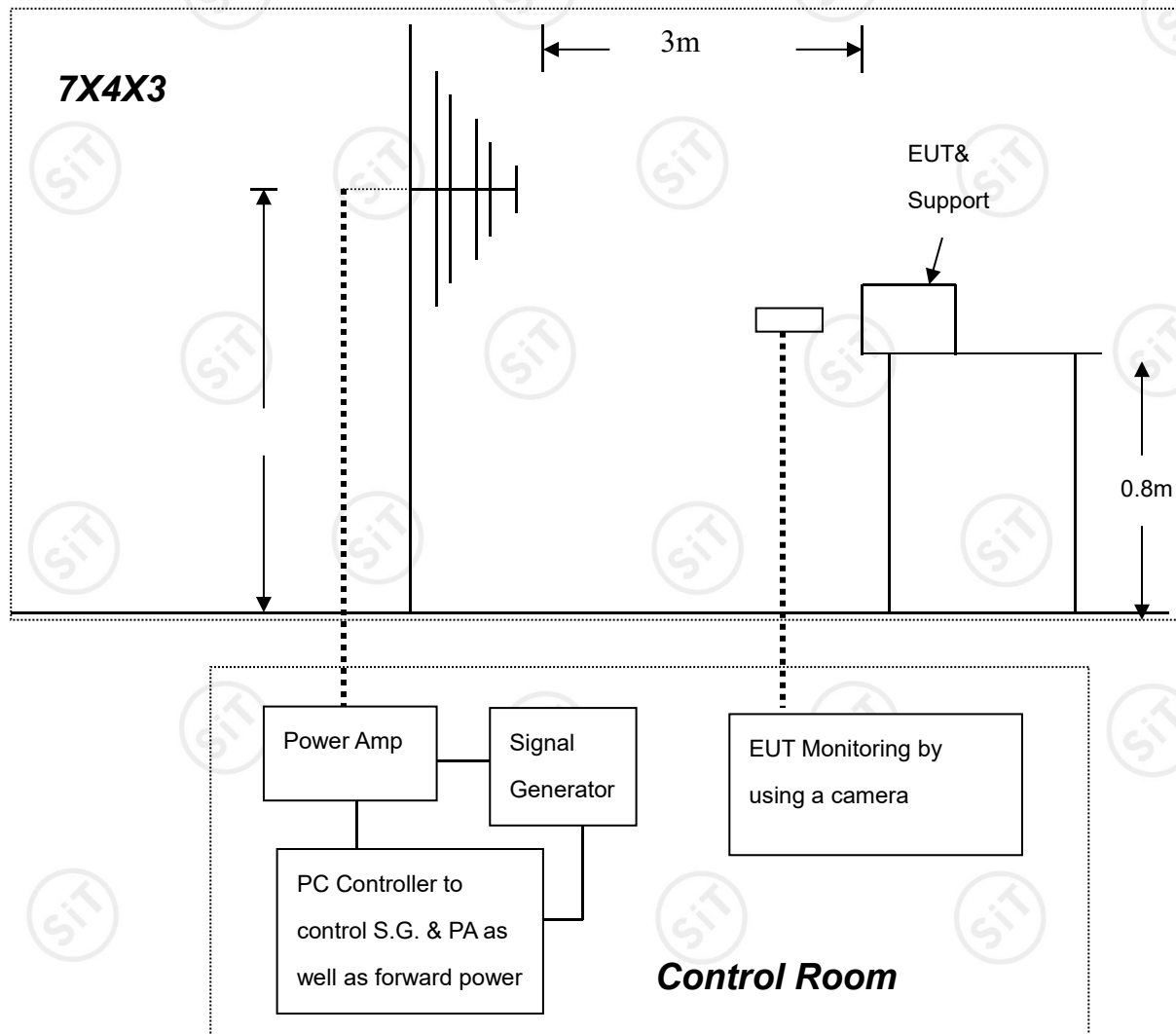
NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).
2. N.C.R.= No Calibration required

8.4.3. TEST PROCEDURE

The test procedure was in accordance with EN IEC 61000-4-3

- a) The testing was performed in a fully anechoic chamber. The transmit antenna was located at a distance of 3 meters from the EUT.
- b) 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 preceding frequency value.
- c) The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- d) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

8.4.4. TEST SETUP



For the actual test configuration, please refer to the related item .

NOTE:

TABLETOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of EN IEC 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

FLOOR STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

8.4.5. TEST RESULTS

Temperature:	25°C	Humidity	55% RH
Pressure	996mbar	Test result	PASS
Test mode	Normal working	Test By	Debeyu

Frequency (MHz)	Polarity	Postion	Field Strength (V/m)	Observation	Result
80 ~ 1000	V&H	Front	3	Note	PASS
80 ~ 1000	V&H	Rear	3	Note	PASS
80 ~ 1000	V&H	Left	3	Note	PASS
80 ~ 1000	V&H	Right	3	Note	PASS

NOTE: There was no change compared with the initial operation during the test.

8.5. ELECTRICAL FAST TRANSIENT (EFT)

8.5.1. TEST SPECIFICATION

Basic Standard:	EN 61000-4-4
Test Voltage:	Power Line: 1 kV Signal/Control Line: 0.5 kV
Polarity:	Positive & Negative
Impulse Frequency:	5 kHz
Impulse Wave-shape:	5/50 ns
Burst Duration:	15 ms
Burst Period:	300ms
Test Duration:	Not less than 1 min.
Performance Criterion:	B

8.5.2. TEST INSTRUMENT

Immunity Shield Room				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMC PARTNER TRANSIENT 2000	EMC PARTNER	TRA2000	881	09/11/2025

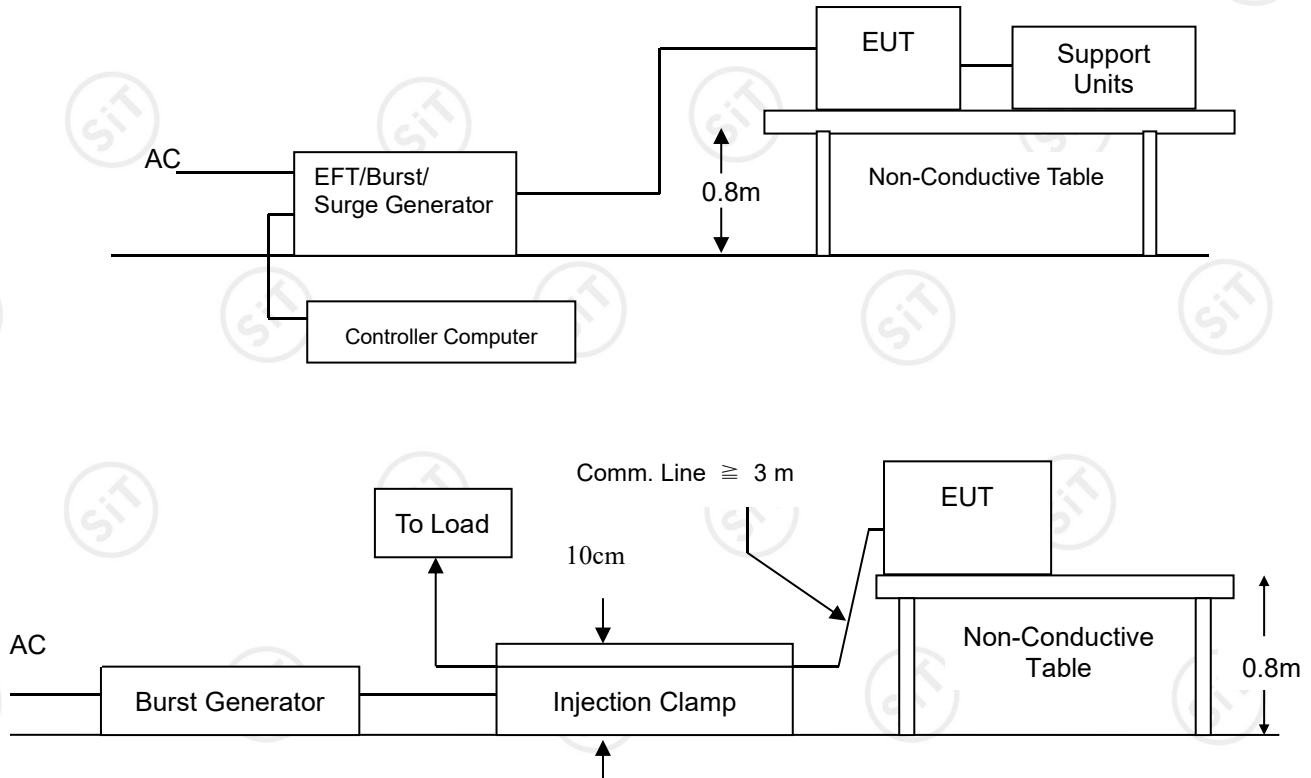
NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

2. N.C.R.= No Calibration required

8.5.3. TEST PROCEDURE

- Both positive and negative polarity discharges were applied.
- The length of the “hot wire” from the coaxial output of the EFT generator to the terminals on the EUT should not exceed 1 meter.
- The duration time of each test sequential was 1 minute.
- The transient/burst waveform was in accordance with EN 61000-4-4, 5/50ns.

8.5.4. TEST SETUP



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

NOTE:

TABLETOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.

8.5.5. TEST RESULTS

Temperature:	25 °C	Humidity	55% RH
Pressure	996mbar	Test result	N/A
Test mode:	Normal working	Test By	DebeYu

Test Point	Polarity	Test Level (kV)	Performance Criterion	Observation	Result
L 1	+/-	1	B	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A
L 2	+/-	1	B	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A
L 1-L 2	+/-	1	B	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A
PE	+/-	1	B	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A
L – PE	+/-	1	B	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A
N – PE	+/-	1	B	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A
L – N – PE	+/-	1	B	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A
Signal Line	--	--	--	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A

NOTE: 1. There was no change compared with initial operation during the test.
2. The loss of function of the EUT during the test and it was recovered by itself operation after the test.

8.6. SURGE IMMUNITY TEST

8.6.1 TEST SPECIFICATION

Basic Standard:	EN 61000-4-5
Wave-Shape:	Combination Wave 1.2/50 us Open Circuit Voltage 8/20 us Short Circuit Current
Test Voltage:	Power line ~ line to line: 1 kV; line to ground: 2kV Telecommunication line: 1 kV;
Surge Input/Output:	Power Line: L1-L2 / L1-PE / L2-PE Telecommunication line: T-Ground / R-Ground
Generator Source Impedance:	2 ohm between networks 12 ohm between network and ground
Polarity:	Positive/Negative
Phase Angle:	0 /90 /180 /270
Pulse Repetition Rate:	1 time / min. (maximum)
Number of Tests:	5 positive and 5 negative at selected points
Performance Criterion:	B

8.6.2. TEST INSTRUMENT

Immunity Shield Room				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMC PARTNER TRANSIENT 2000	EMC PARTNER	TRA2000	881	09/11/2025

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).
2. N.C.R.= No Calibration required

8.6.3. TEST PROCEDURE

a) For EUT power supply:

The surge is applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks was shorter than 2 meters in length.

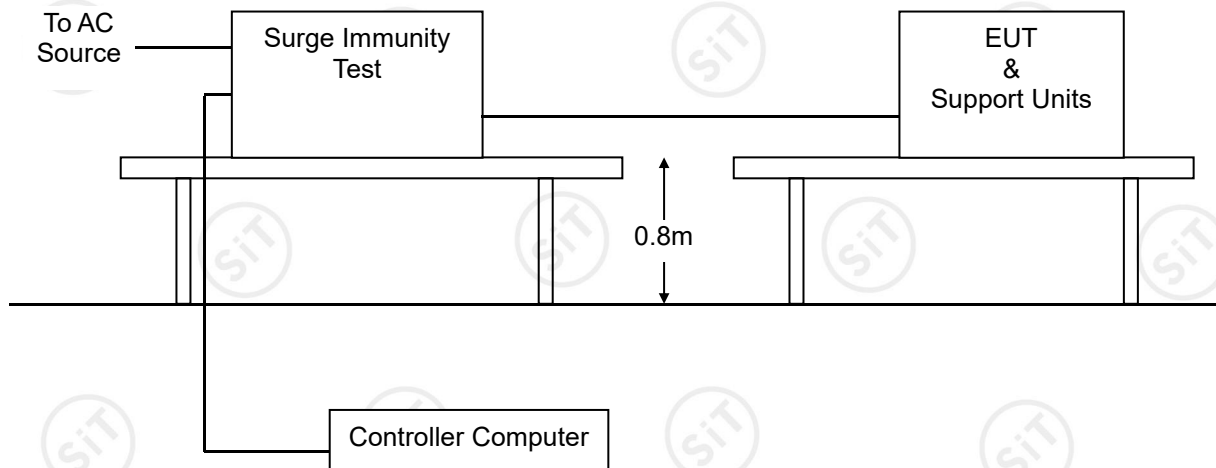
b) For test applied to unshielded un-symmetrically operated interconnection lines of EUT:

The surge was applied to the lines via the capacitive coupling. The coupling / decoupling networks didn't influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks was shorter than 2 meters in length.

c) For test applied to unshielded symmetrically operated interconnection / telecommunication lines of EUT:

The surge was applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor were not specified. The interconnection line between the EUT and the coupling/decoupling networks was shorter than 2 meters in length.

8.6.4. TEST SETUP



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

8.6.5. TEST RESULTS

Temperature:	25°C	Humidity	55% RH
Pressure	996mbar	Test Result	N/A
Test mode	Normal working	Test By	DebeYu

Test Point	Polarity	Test Level (kV)	Performance Criterion	Observation	Result
L 1 - L 2	+/-	1	B	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A
L1 - PE	+/-	2	B	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A
L2 - PE	+/-	2	B	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A
R - Ground	--	--	--	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A
T - Ground	--	--	--	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A

NOTE: 1. There was no change compared with initial operation during the test.
2. The loss of function of the EUT during the test and it was recovered by itself operation after the test.

8.7. CONDUCTED RADIO FREQUENCY DISTURBANCES (CS)

8.7.1. TEST SPECIFICATION

Basic Standard:	EN 61000-4-6
Frequency Range:	0.15 MHz ~230 MHz
Field Strength:	3 V
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of preceding frequency value
Coupled cable:	Power Mains, Shielded
Coupling device:	CDN-MO2592 /2 (2 wires)
Performance Criterion:	A

8.7.2. TEST INSTRUMENT

CS Test				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Signal Generator	Maconi	2022D	119246/003	09/19/2025
Power Amplifier	M2S	A00181-1000	9801-112	09/19/2025
CDN	MEB	MO2592 -8016	003683	09/19/2025

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).
2. N.C.R.= No Calibration required

8.7.3. TEST PROCEDURE

The EUT shall be tested within its intended operating and climatic conditions.

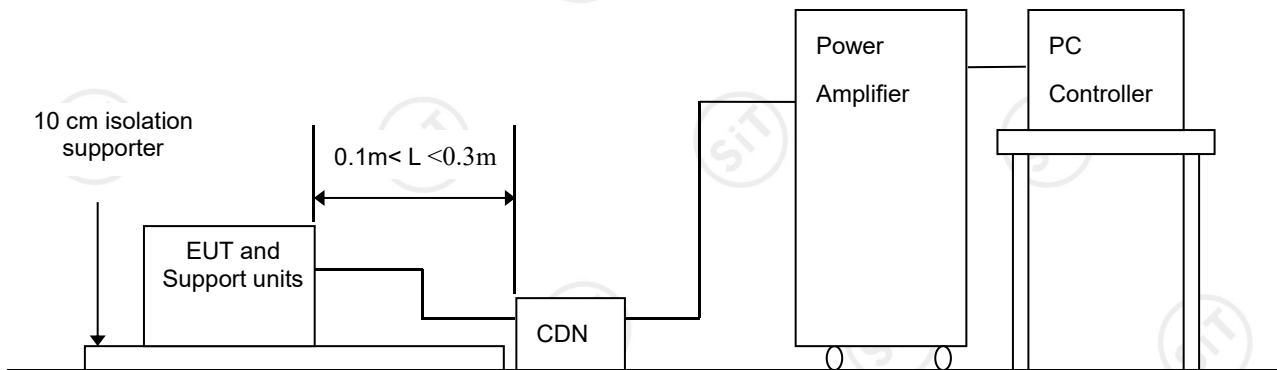
The test shall be performed with the test generator connected to each of the coupling and decoupling devices in turn, while the other non-excited RF input ports of the coupling devices are terminated by a 50-ohm load resistor.

The frequency range was swept from 150 kHz to 230 MHz, using the signal level established during the setting process and with a disturbance signal of 80 % amplitude. The signal was modulated with a 1 kHz sine wave, pausing to adjust the RF signal level or the switch coupling devices as necessary. The sweep rate was 1.5×10^{-3} decades/s. Where the frequency range is swept incrementally, the step size was 1 % of preceding frequency value from 150 kHz to 230 MHz.

The dwell time at each frequency was less than the time necessary for the EUT to be exercised, and able to respond. Sensitive frequencies such as clock frequency(ies) and harmonics or frequencies of dominant interest, was analyzed separately.

Attempts was made to fully exercise the EUT during testing, and to fully interrogate all exercise modes selected for susceptibility.

8.7.4. TEST SETUP



- Note:**
1. The EUT is setup 0.1m above Ground Reference Plane
 2. The CDNS and / or EM clamp used for real test depends on ports and cables configuration of EUT.

For the actual test configuration, please refer to the related item .

NOTE:

TABLE-TOP AND FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.

8.7.5. TEST RESULTS

Temperature:	25°C	Humidity	55% RH
Pressure	996mbar	Test Result	N/A
Test mode	Normal working	Test By	DebeYu

Frequency Band (MHz)	Field Strength (Vrms)	Injected Position	Injection Method	Performance Criterion	Observation	Result
0.15 ~ 230	3	AC Mains	CDN-MO259 2	A	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2	N/A

- NOTE:** 1. There was no change compared with initial operation during the test.
2. The loss of function of the EUT during the test and it was recovered by itself operation after the test.
3. This item is tested by Shenzhen Academy of Metrology & Quality Inspection

8.8. VOLTAGE DIP & VOLTAGE INTERRUPTIONS

8.8.1. TEST SPECIFICATION

Basic Standard: EN IEC 61000-4-11

Test Duration Time: Minimum three test events in sequence

Interval Between Event: Minimum 10 seconds

Phase Angle: 0 / 45 / 90 / 135 / 180 / 225 / 270 / 315 / 360

Test Cycle: 3 times

Performance Criterion: C

8.8.2. TEST INSTRUMENT

Immunity shielded room				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMC PARTNER TRANSIENT 2000	EMC PARTNER	TRA2000	881	09/11/2025

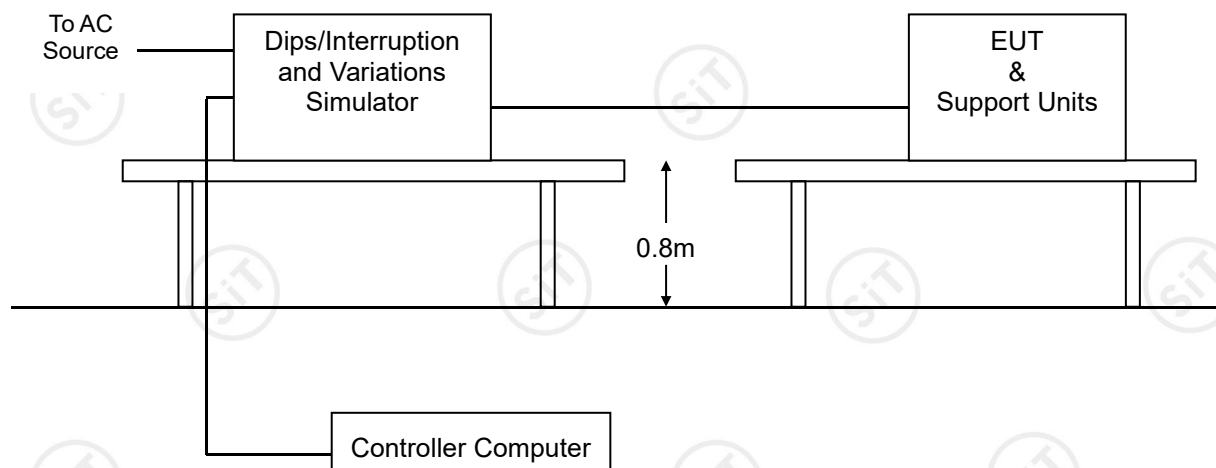
NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).
2. N.C.R.= No Calibration required

8.8.3. TEST PROCEDURE

1. The EUT and support units were located on a wooden table, 0.8 m away from ground floor.
2. Setting the parameter of tests and then perform the test software of test simulator.
3. Conditions changes to occur at 0 degree crossover point of the voltage waveform.
4. Recording the test result in test record form.

8.8.4. TEST SETUP

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



8.8.5. TEST RESULTS

Temperature:	25°C	Humidity	55% RH
Pressure	996mbar	Test Result	N/A
Test mode	Normal working	Test By	DebeYu

Test Power: 230Vac, 50Hz				
Voltage (% Reduction)	Duration (Period)	Performance Criterion	Observation	Test Result
40	10	<input type="checkbox"/> A <input type="checkbox"/> B <input checked="" type="checkbox"/> C	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	N/A
70	50	<input type="checkbox"/> A <input type="checkbox"/> B <input checked="" type="checkbox"/> C	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	N/A
0	0.5	<input type="checkbox"/> A <input type="checkbox"/> B <input checked="" type="checkbox"/> C	Note <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	N/A

NOTE: 1. There was no change compared with initial operation during and after the test.

No unintentional response was found during the test.

2. The function stopped during the test, but can be recoverable by itself operation after the test.

3. The function stopped during the test, but can be recoverable manually after the test.

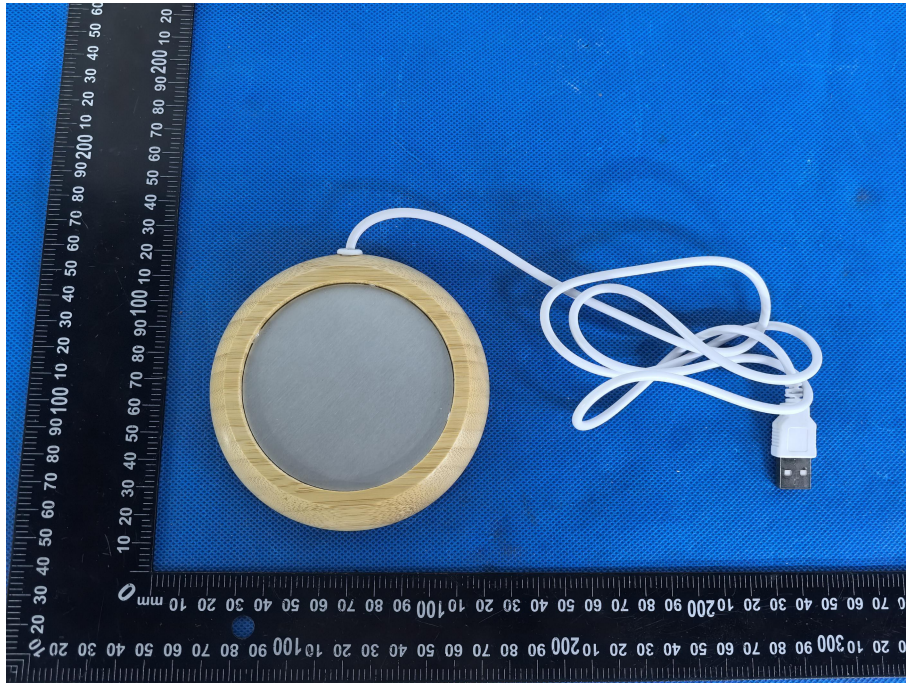
9 PHOTOGRAPH OF THE TEST CONFIGURATION

RADIATED EMISSION TEST

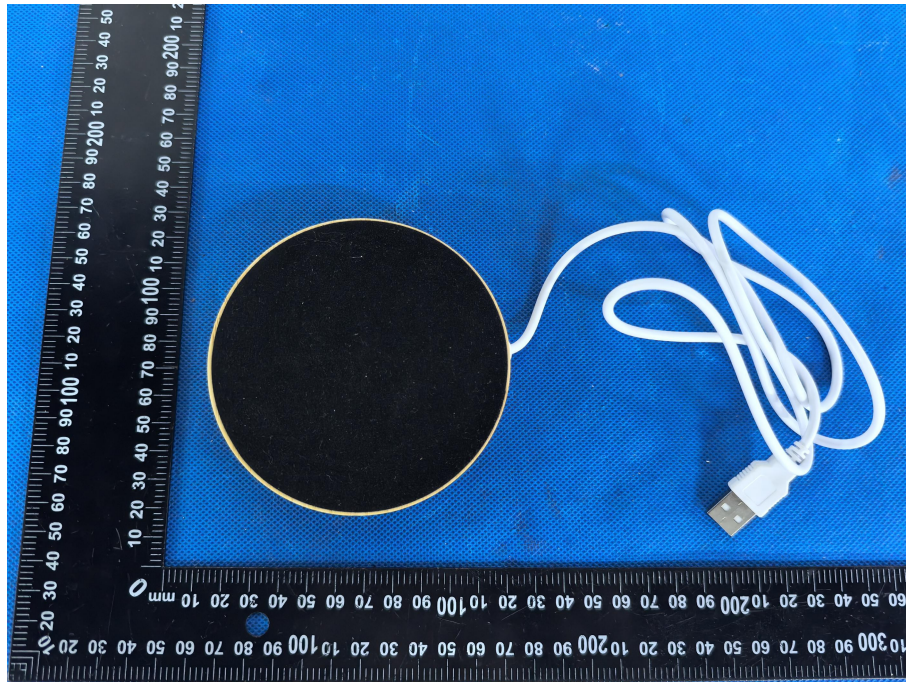


10 PHOTOGRAPHS OF EUT

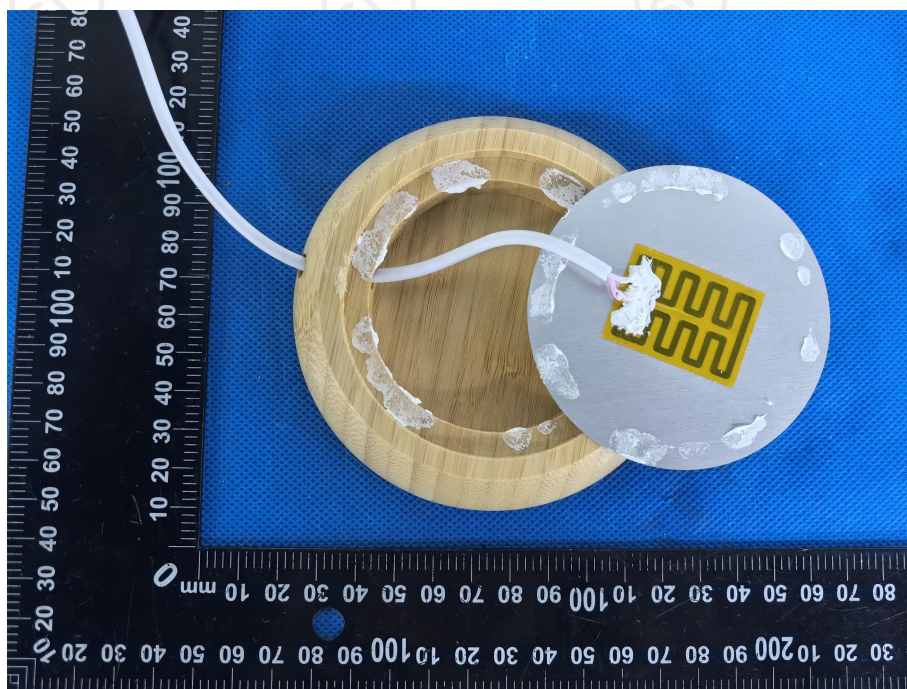
Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



----The End----