
EMC Test Report

Report No.: AGC16419260402ER01

PRODUCT DESIGNATION : Wireless charger in bamboo

BRAND NAME : N/A

MODEL NAME : M06139

APPLICANT : MID OCEAN BRANDS B.V.

DATE OF ISSUE : Apr. 27, 2026

STANDARD(S) : ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-3 V2.3.2 (2023-01)

REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 27, 2026	Valid	Initial release

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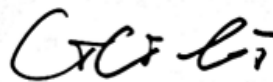
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1. General information

Applicant	MID OCEAN BRANDS B.V.
Address	Unit 711 716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer	MID OCEAN BRANDS B.V.
Address	Unit 711 716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Factory	MID OCEAN BRANDS B.V.
Address	Unit 711 716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Product Designation	Wireless charger in bamboo
Brand Name	N/A
Test Model	MO6139
Series Model(s)	N/A
Difference Description	N/A
Deviation from Standard	No any deviation from the test method
Date of Receipt	Apr. 13, 2026
Date of Test	Apr. 13, 2026 to Apr. 27, 2026
Test Result	Pass
Test Report Form No	AGCTR-ER-EMC-GEN-V1.0
Note: The test results of this report relate only to the tested sample identified in this report.	

Prepared By



CiCi Li
(Project Engineer)

Apr. 27, 2026

Reviewed By



Jack Gui
(Reviewer)

Apr. 27, 2026

Approved By



Angela Li
(Authorized Officer)

Apr. 27, 2026

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2. Description of Test Configuration

2.1. Technical Description of Product

Product Designation	Wireless charger in bamboo
Test Model	MO6139
Hardware Version	V1.0
Software Version	V1.0
EUT Input Rating	5V $\overline{=}$ 2A
EUT Output Rating	5V $\overline{=}$ 1A, Wireless Output: 5W Max.
Adapter Information	Model: MO6139 Input: 100-240V~, 50/60Hz, 0.45A Output: 5V $\overline{=}$ 2A
WPT Technical Parameters	
Modulation Type	110-205 kHz
Antenna Designation	ASK
Antenna Gain	Coil Antenna

Note: For more details, refer to the user's manual of the EUT.

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2.2. Objective

Perform Electro Magnetic Interference (EMI) and Electro Magnetic Susceptibility (EMS) tests for CE Marking.

2.3. Test Items and The Results

The tests were performed according to following standards:

EN 301 489-1 V2.2.3 (2019-11)	Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonized Standard for Electro Magnetic Compatibility
EN 301 489-3 V2.3.2 (2023-01)	Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard for Electro Magnetic Compatibility

Test items are been completed as follows (ETSI EN 301489-1):

Phenomenon	Application	Equipment test requirement		
		fixed use	vehicular use	portable use
Radiated emission	enclosure of ancillary equipment	applicable for stand alone testing	applicable for stand alone testing	applicable for stand alone testing
Conducted emission	DC power input/output port	applicable	applicable	not applicable
	AC mains input/output port	applicable	not applicable	not applicable
	Telecommunication port	applicable	not applicable	not applicable
Harmonic current emissions	AC mains input port	applicable	not applicable	not applicable
Voltage fluctuations and flicker	AC mains input port	applicable	not applicable	not applicable
RF electromagnetic Field (80 MHz to 6000 MHz)	enclosure	applicable	applicable	applicable
Electrostatic discharge	enclosure	applicable	not applicable	applicable
Fast Transients Common mode	signal, Telecommunication and control ports,	applicable	not applicable	not applicable
	DC and AC power ports	applicable	not applicable	not applicable
RF common mode 0, 15 MHz to 80 MHz	Signal telecommunication and control ports	applicable	applicable	not applicable
	DC and AC powerports	applicable	applicable	not applicable
transients and surges	DC power inputports	not applicable	applicable	not applicable
voltage dips and interruptions	AC mains powerinput ports	applicable	not applicable	not applicable
surges, line toline and line toground	AC mains power input ports, telecommunication ports	applicable	not applicable	not applicable

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

EMISSION (EN 301 489-1 §7.1)		
Test items	Test Standard(s)	Verdict
Radiated Emission	EN 55032	Pass
Conducted Emission, DC ports	EN 55032	Not applicable
Conducted Emission, AC ports	EN 55032	Pass
Conducted Emission, Telecom ports	EN 55032	Not applicable
IMMUNITY (EN 301 489-1 §7.2)		
Electrostatic Discharge	IEC 61000-4-2 ^a	Pass
Radiated RF Electromagnetic Field	IEC 61000-4-3 ^a	Pass
Electrical Fast Transient/Burst	IEC 61000-4-4 ^a	Pass
Transients and Surges, DC ports	ISO 7637-1, -2	Not applicable
Surge Immunity, AC ports	IEC 61000-4-5 ^a	Pass
Radio-Frequency Common mode	IEC 61000-4-6 ^a	Pass
Voltage dips and interruptions	IEC 61000-4-11 ^a	Pass
Note: a. The applicable versions of the basic standards are defined in the standard which listed in the test specification.		

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2.4. General Performance Criteria

■ Performance criteria for continuous phenomena

During the test, the equipment shall:

- continue to operate as intended;
- not unintentionally transmit;
- not unintentionally change its operating state;
- not unintentionally change critical stored data.

■ Performance criteria for transient phenomena

■ For all ports and transient phenomena with the exception described below, the following applies:

- The application of the transient phenomena shall not result in a change of the mode of operation
- (e.g. unintended transmission) or the loss of critical stored data.
- After application of the transient phenomena, the equipment shall operate as intended.

■ For surges applied to symmetrically operated wired network ports intended to be connected directly to outdoor lines the following criteria applies:

- For products with only one symmetrical port intended for connection to outdoor lines, loss of function is allowed, provided the function is self-recoverable, or can be otherwise restored. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.
- For products with more than one symmetrical port intended for connection to outdoor lines, loss of function on the port under test is allowed, provided the function is self-recoverable. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

■ For a 0 % residual voltage dip tests the following performance criteria apply:

- The performance criteria for transient phenomena shall apply.

■ For a 70 % residual voltage dip and voltage interruption tests, the following performance criteria apply:

- in the case where the equipment is fitted with or connected to a battery back-up, the performance criteria for transient phenomena shall apply;
- in the case where the equipment is powered solely from the AC mains supply (without the use of a parallel battery back-up) volatile user data may have been lost and if applicable the communication link need not to be maintained and lost functions should be recoverable by user or operator;
- no unintentional responses shall occur at the end of the test, when the voltage is restored to nominal;
- in the event of loss of function(s) or in the event of loss of user stored data, this fact shall be recorded.

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■ Performance Table

According to ETSI EN 301 489-3 standard, the general performance criteria are as follows:

EN 301 489-3 Performance Criteria_SRD		
Criteria	During Test	After Test
A	Operate as intended No loss of function No unintentional responses	Operate as intended No loss of function No degradation of performance No loss of stored data or user programmable functions
B	May show loss of function No unintentional responses	Operate as intended Lost function(s) shall be self-recoverable No degradation of performance No loss of stored data or user programmable functions
• performance criterion A applies for immunity tests with phenomena of a continuous nature; • performance criterion B applies for immunity tests with phenomena of a transient nature.		
Where "operate as intended" or "no loss of function" is specified, the EUT shall demonstrate correct functioning as described in EN 301 489-3 clause 5. Where the EUT has more than one mode of operation, an unplanned transition from one mode to another is considered as an unintentional response. The EUT shall be tested in sufficient modes to confirm there are no such unintentional responses.		

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2.5. Description of Test Modes

No.	Test Mode Description
1	Full Load mode
2	Half Load mode
3	Null Load mode

Note: All modes are pre-tested for EMI and the worst mode is finally reflected.

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3. Setup of Equipment Under Test

3.1. Setup Configuration of EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

3.2. Support Equipment

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

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

☒ Test Accessories Come From The Laboratory

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Wireless Charging Load	YBZ	N/A	--	--	--

☒ Test Accessories Come From The Manufacturer

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Adapter	--	MO6139	--	--	0.95m, unshielded

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4. Test Facility

4.1. Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

4.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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4.3. Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	45 % - 85 %
Pressure range (kPa)	86 - 106

4.4. Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO.

- Uncertainty of Conducted Emission, $U_c = \pm 2.9\text{dB}$
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9\text{dB}$
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.9\text{dB}$

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5. Measurement of Conducted Emissions from the AC Mains Power Ports

5.1. Requirements

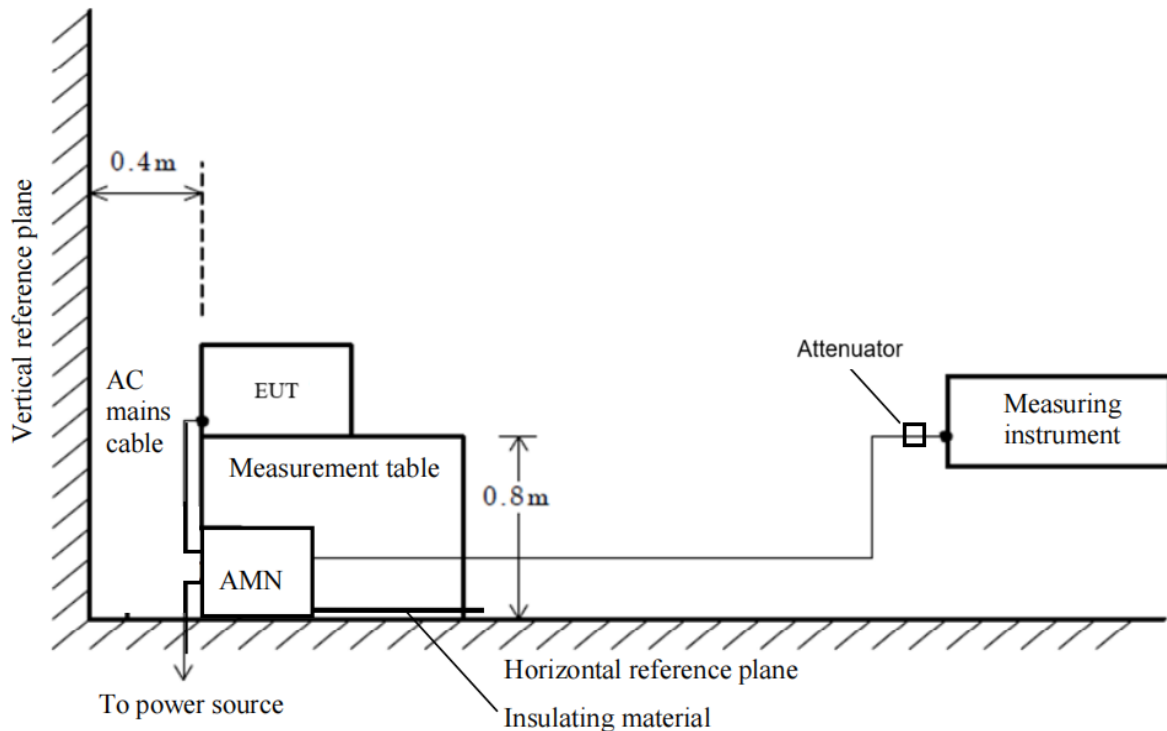
Requirements for conducted emissions, low voltage AC mains port

Network device	Detector type/ bandwidth	Frequency Range (MHz)	Limits dB(μ V)	Measurement specifications
AMN	Quasi-peak/ 9kHz	0.15 to 0.5	66 to 56	Instrumentation: CISPR 16-1-1, Clauses 4, 5 and 7
		0.5 to 5	56	
		5 to 30	60	
	Average/ 9kHz	0.15 to 0.5	56 to 46	Networks: CISPR 16-1-2, Clause 4
		0.5 to 5	46	Method: CISPR 16-2-1, Clause 7
		5 to 30	50	Set-up: CISPR 16-2-1, Clause 7

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.5MHz.

5.2. Block Diagram of Test Setup



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5.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E116	Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
AGC-EM-E023	Artificial Mains Network	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07
AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	N/A	2026-01-13	2028-01-12

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S001	ES-K1	R&S	For EMC Measurement, Version 1.71

5.4. Configuration of the EUT and method of measurement

- The EUT was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, the EUT was placed on the top surface of a measurement table, 0.8 m high from the horizontal reference plane, and was positioned at a distance of 0.4 m away from the vertical reference plane. When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 10 cm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per CISPR 16-2-1.
- All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-1.
- The EMI receiver measured the emission levels emanating from the EUT into the AC Mains through an Artificial Mains Network (AMN) and an attenuator used on the front end of the EMI receiver. Testing included measurements on all live and neutral lines.
- The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.
- Record at least six highest emissions relative to the limits at each frequency of interest unless the emission is 10 dB or greater below the limit.
- A conducted emission is calculated by the following equation:
 - Measurement Level (dB μ V) = Receiver reading (dB μ V) + Tansd (dB)
 - Transd(dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
 - Margin= Limit-Level

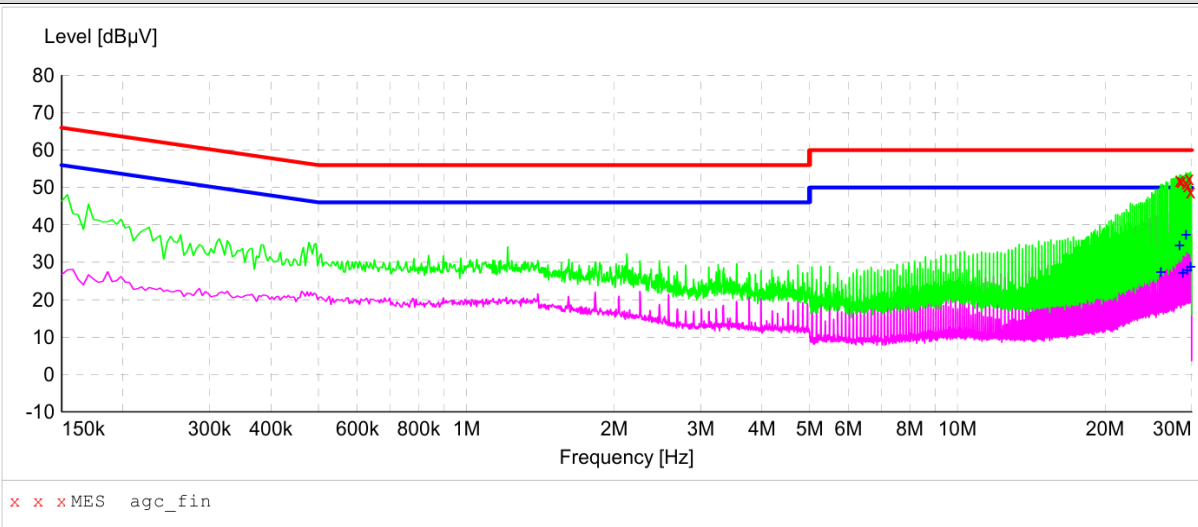
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5.5. Test Summary

Test Engineer	Carpe Lin	Temperature	22.9 °C
Test Date	2026-04-19	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	57.2 %
Verdict	Pass		

Test graph and data for Conducted Emission

Test Mode: Mode 1

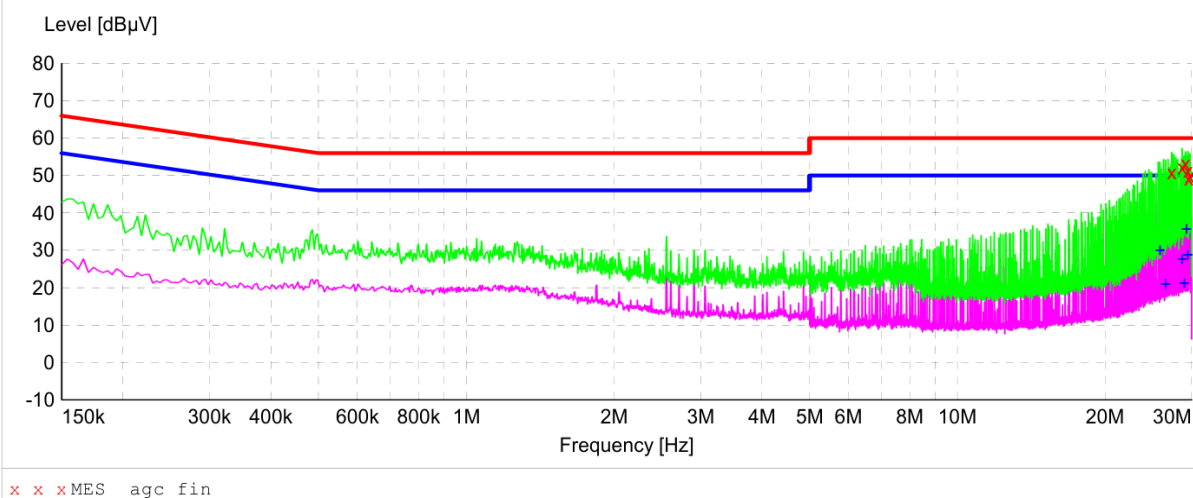


Frequency [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Detector	Line
28.334000	51.9	17.6	60.0	8.1	QP	L1
28.546000	51.8	17.7	60.0	8.2	QP	L1
29.198000	51.3	17.9	60.0	8.7	QP	L1
29.410000	50.6	18.0	60.0	9.4	QP	L1
29.626000	52.5	18.0	60.0	7.5	QP	L1
29.842000	49.0	18.1	60.0	11.0	QP	L1
25.962000	27.2	16.9	50.0	22.8	AV	L1
28.334000	34.3	17.6	50.0	15.7	AV	L1
28.762000	27.0	17.8	50.0	23.0	AV	L1
29.198000	37.3	17.9	50.0	12.7	AV	L1
29.410000	27.8	18.0	50.0	22.2	AV	L1
29.842000	28.7	18.1	50.0	21.3	AV	L1

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Test graph and data for Conducted Emission

Test Mode: Mode 1



Frequency [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Detector	Line
27.326000	50.8	17.3	60.0	9.2	QP	N
28.694000	52.3	17.8	60.0	7.7	QP	N
29.154000	53.1	17.9	60.0	6.9	QP	N
29.462000	51.3	18.0	60.0	8.7	QP	N
29.614000	49.2	18.0	60.0	10.8	QP	N
29.758000	49.9	18.1	60.0	10.1	QP	N
25.866000	29.8	16.9	50.0	20.2	AV	N
26.554000	20.8	17.1	50.0	29.2	AV	N
28.694000	27.5	17.8	50.0	22.5	AV	N
28.958000	21.2	17.8	50.0	28.8	AV	N
29.262000	35.7	17.9	50.0	14.3	AV	N
29.462000	28.8	18.0	50.0	21.2	AV	N

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6. Measurement of Radiated Emissions at Frequencies up to 1 GHz

6.1. Requirements

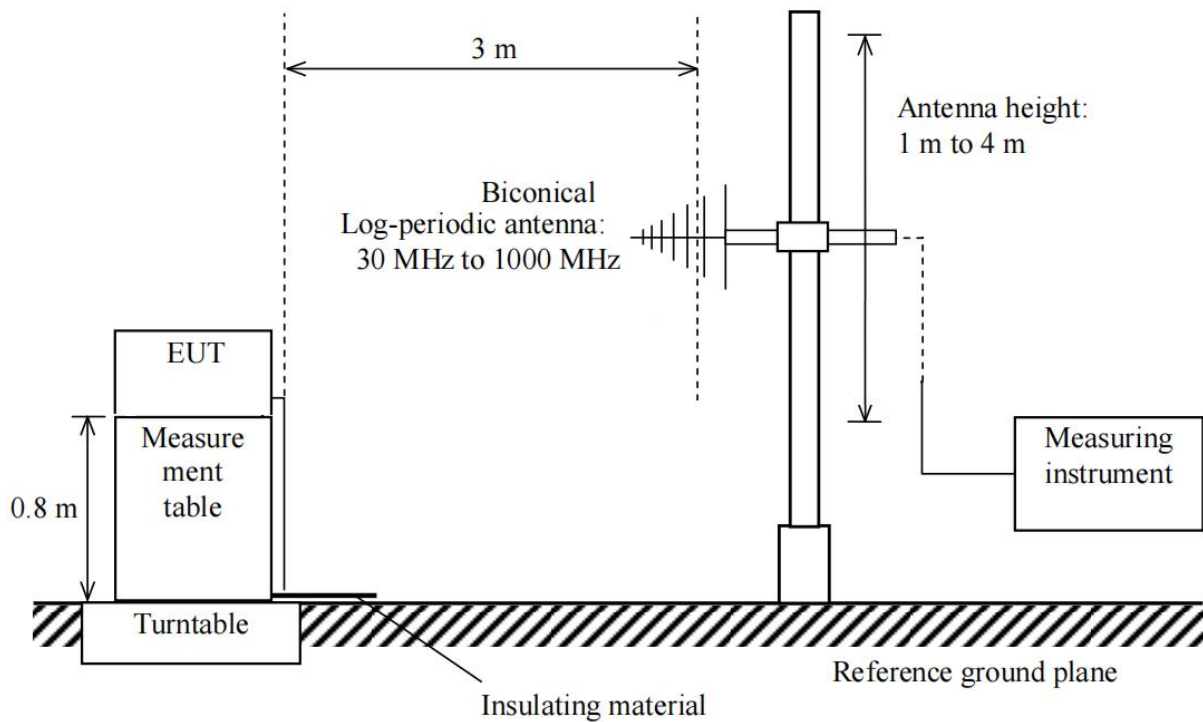
Requirements for radiated emissions at frequencies up to 1 GHz at 3m distance

Test facility	Detector type/ bandwidth	Frequency Range (MHz)	Limits dB(μ V/m)	Measurement specifications
SAC	Quasi-peak/ 120kHz	30 to 230	40	Instrumentation: CISPR 16-1-1, Clauses 4, 5 Antennas: CISPR 16-1-4, Clause 4.5 Test Site: CISPR 16-1-4, Clause 6 Method: CISPR 16-2-3, Clause 7.6
		230 to 1000	47	

Note:

1. The lower limit shall apply at the transition frequency.

6.2. Block Diagram of Test Setup



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6.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E046	Test Receiver	R&S	ESCI	100096	2026-01-13	2027-01-12
AGC-EM-E001	Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
AGC-EM-A138	Attenuator	East sheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S003	EZ-EMC	FARA	For EMC Measurement, Version RA-03A

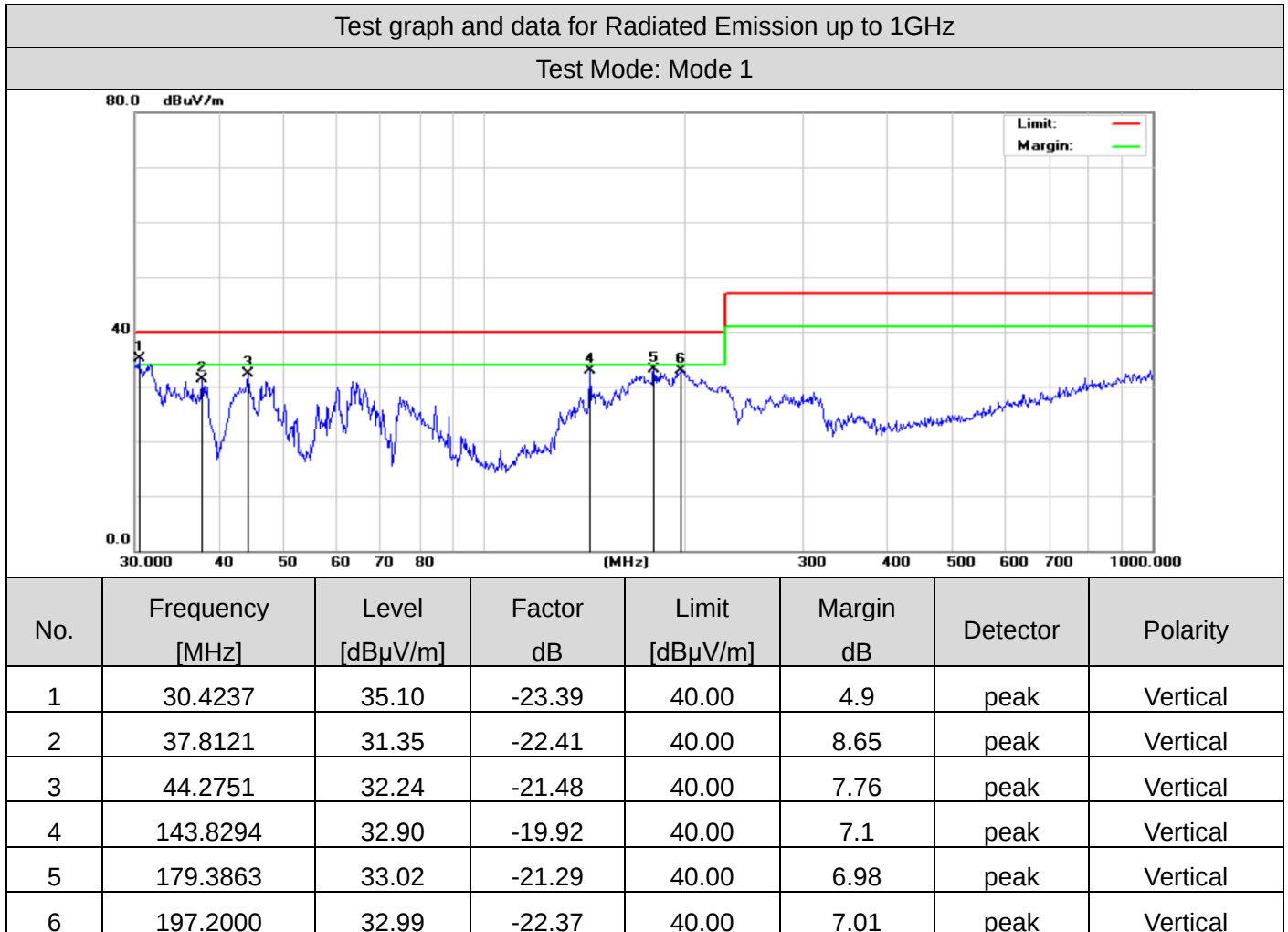
6.4. Configuration of the EUT and method of measurement

- The EUT was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, the EUT was placed on the top surface of a measurement table, 0.8 m high from the horizontal reference plane. When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 10 cm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per CISPR 16-2-3.
- All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-3.
- The maximum receiving level of radiated emissions from the EUT was measured while the turntable was rotated from 0° to 360° and the antenna height was scanned between 1 m and 4 m. The cables were laid out to attain the maximum level of radiated emissions.
- The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.
- Record at least six highest emissions relative to the limits at each frequency of interest unless the emission is 10 dB or greater below the limit.
- A radiated emission is calculated by the following equation:
 - Measurement Level dB(μV/m) = Receiver reading dB(μV) + Factor(dB/m)
 - Factor(dB/m) = Antenna Factor(dB/m) + Cable Loss(dB)
 - Margin= Limit-Level

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6.5. Test Summary

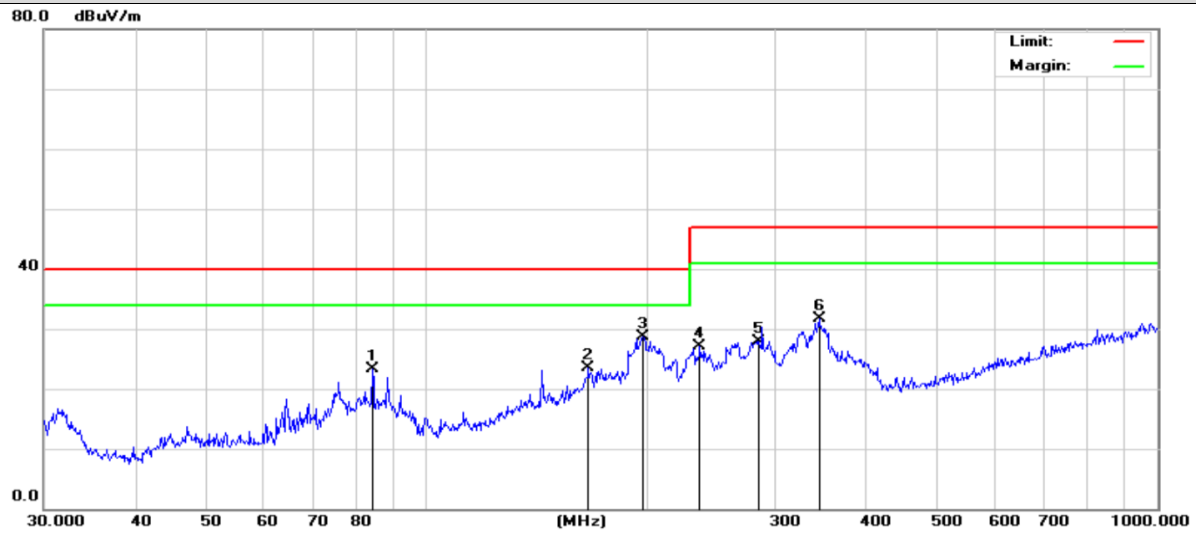
Test Engineer	Carl Duan	Temperature	21.7 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	62.0 %
Verdict	Pass		



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Test graph and data for Radiated Emission up to 1GHz

Test Mode: Mode 1



No.	Frequency [MHz]	Level [dBμV/m]	Factor dB	Limit [dBμV/m]	Margin dB	Detector	Polarity
1	84.4054	23.29	-27.38	40.00	16.71	peak	Horizontal
2	166.6514	23.44	-21.06	40.00	16.56	peak	Horizontal
3	197.8928	28.78	-23.22	40.00	11.22	peak	Horizontal
4	236.6447	27.06	-22.09	47.00	19.94	peak	Horizontal
5	284.9767	27.99	-19.92	47.00	19.01	peak	Horizontal
6	344.3855	31.65	-18.51	47.00	15.35	peak	Horizontal

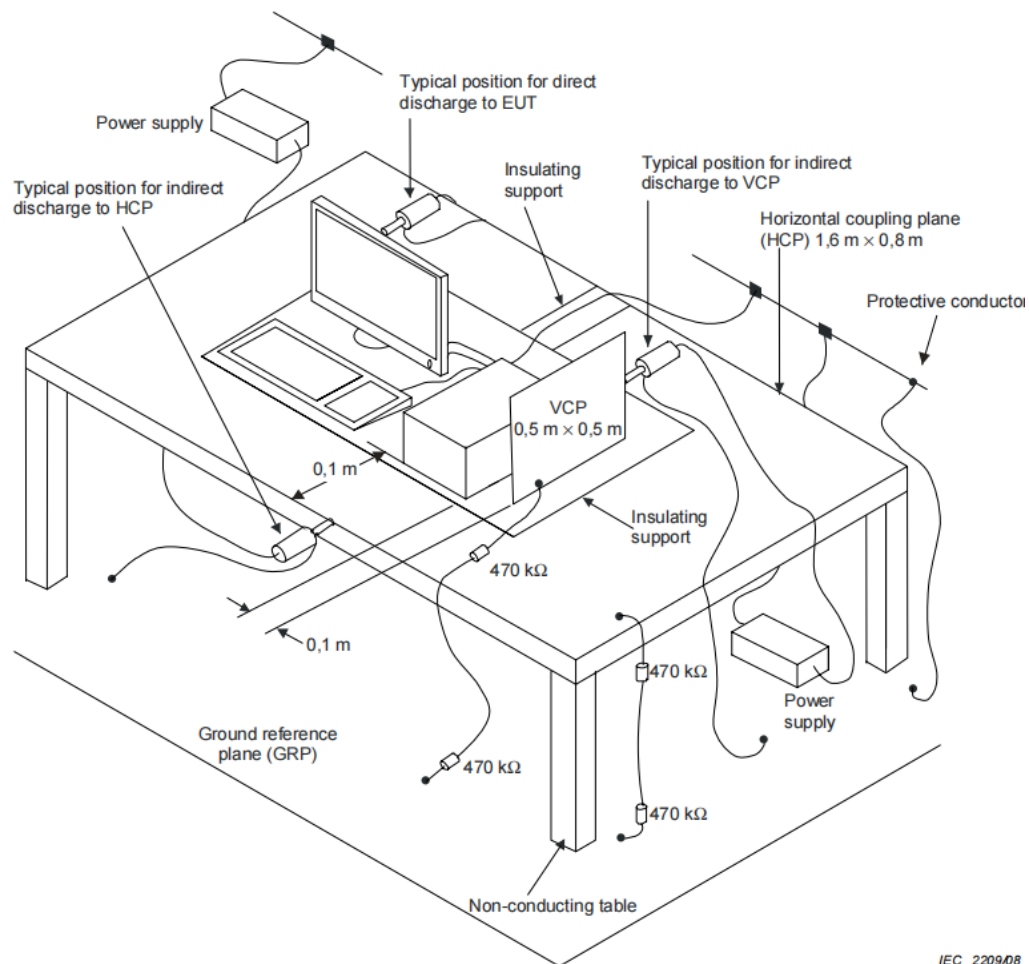
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7. Measurement of Electrostatic discharge

7.1. Requirements

Port	Enclosure
Basic Standard	EN 61000-4-2
Required Performance Criterion	The performance criteria for transient phenomena shall apply.
Test Level	±8.0 kV (Air Discharge) ±4.0 kV (Contact Discharge) ±4.0 kV (Indirect Discharge)
Time Between Each Discharge	1 second
Number of Discharge for Each Applied Voltage	10

7.2. Block Diagram of Test Setup



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7.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E013	ESD Simulator	Schaffner	NSG 438	782	2025-11-03	2026-11-02

Measuring Software

Software No.	Software Name	Manufacturer	Details
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7.4. Configuration of the EUT and method of measurement

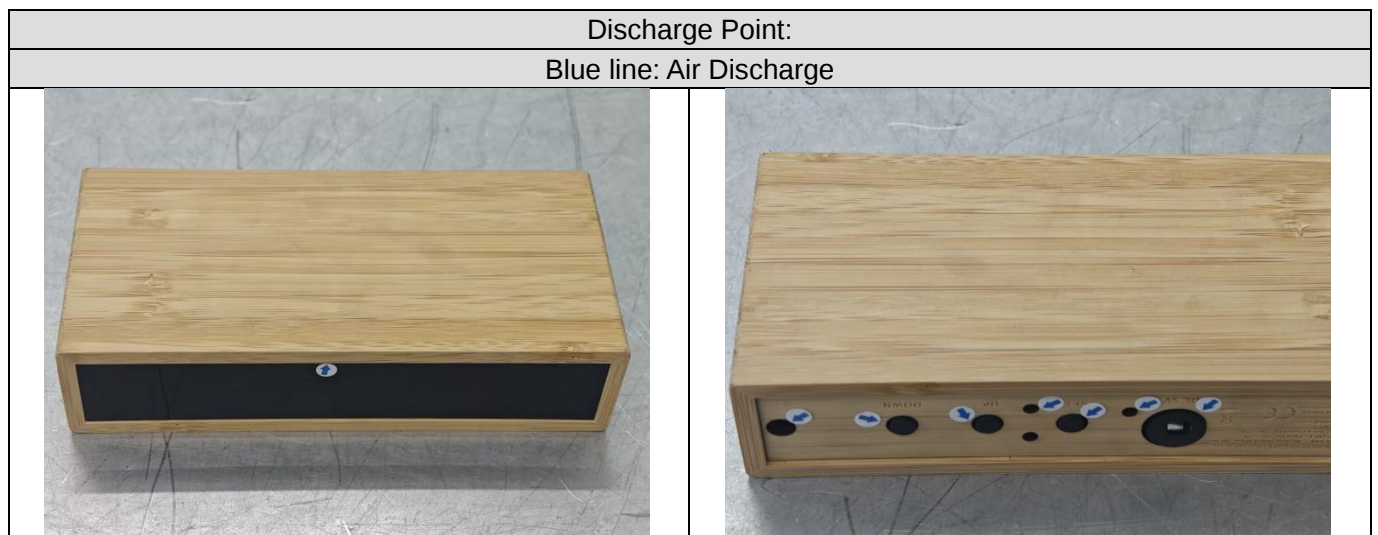
- Electrostatic discharges were applied only to those points and surfaces of the EUT that are accessible to users during normal operation.
- The test was performed with at least ten single discharges on the pre-selected points in the most sensitive polarity.
- The time interval between two successive single discharges was at least 1 second.
- The ESD generator was held perpendicularly to the surface to which the discharge was applied and the return cable was at least 0.2 meters from the EUT.
- Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.
- 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 completed.
- At least ten single discharges (in the most sensitive polarity) were applied to the Horizontal Coupling Plane at points on each side of the EUT. The ESD generator was positioned vertically at a distance of 0.1 meters from the EUT with the discharge electrode touching the HCP.
- At least ten single discharges (in the most sensitive polarity) were applied to the center of one vertical edge of the Vertical Coupling Plane in sufficiently different positions that the four faces of the EUT were completely illuminated. The VCP (dimensions 0.5m×0.5m) was placed vertically to and 0.1 meters from the EUT.
- The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance criterion defined in the report.

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7.5. Test Summary

Test Engineer	Carpe Lin	Temperature	22.3 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Test Mode(s)	Mode 1/2/3	Relative Humidity	55.2 %
Verdict	Pass		

Voltage	Coupling	Observation	Results
±4kV	Contact Discharge	N/A	N/A
±2KV, ±4kV, ±8kV	Air Discharge	No degradation of performance	Pass
±4kV	Indirect Discharge HCP	No degradation of performance	Pass
±4kV	Indirect Discharge VCP	No degradation of performance	Pass



Note: No Contact discharge

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8. Measurement of Radio-Frequency Electromagnetic Field

8.1. Requirements

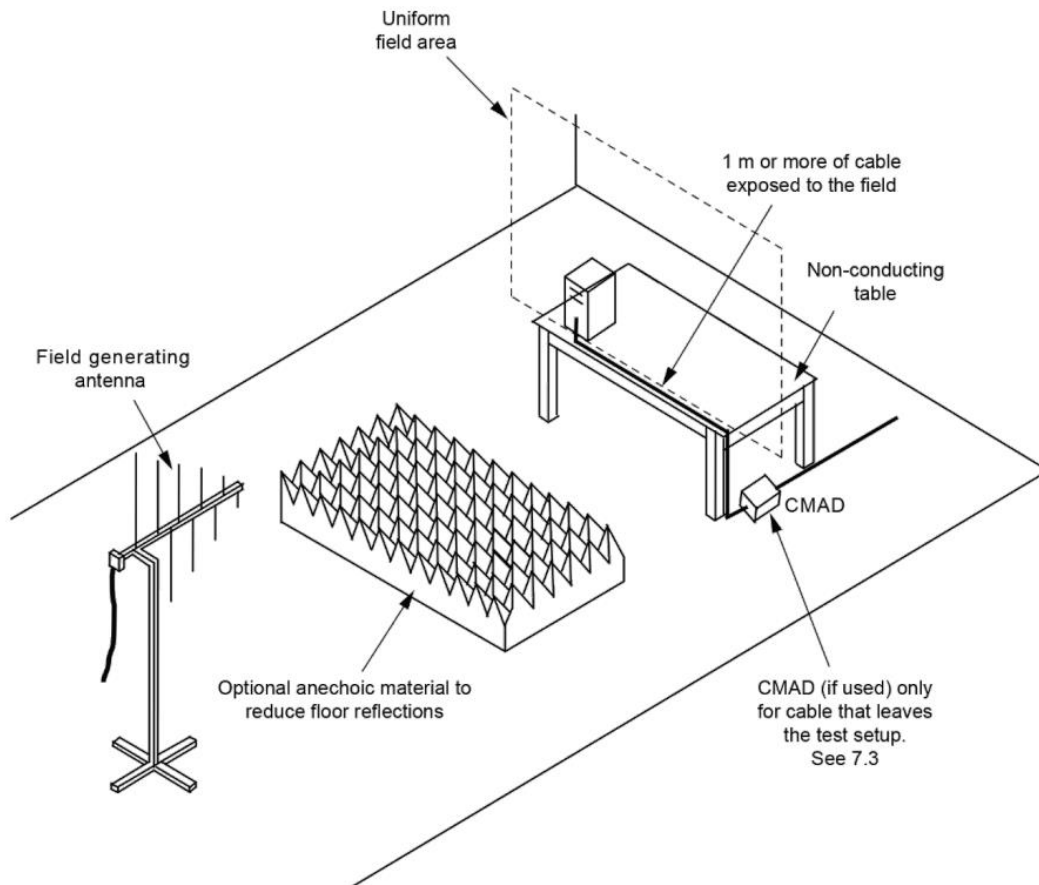
Port	Enclosure
Basic Standard	EN 61000-4-3
Required Performance Criterion	A
Test Level	3V/m with 80% AM. 1kHz Modulation at 80 to 6000MHz
Antenna polarization	Vertical and Horizontal
Step size increment ^a	1%
Dwell time ^b	≤5 seconds
Test Distance	3m
EUT position facing antenna	Front side, back side, left side and right side

Notes:

- Recognizing that a 1% step size is preferred, the frequency range can be swept incrementally with a step size not exceeding 4% of the previous frequency with a test level of twice the value of the specified test level in order to reduce the testing time for equipment requiring testing in multiple configurations and/or long cycle times.
- The dwell time at each frequency shall not be less than the time necessary for the EUT to be exercised and to be able to respond. However, the dwell time shall not exceed 5 seconds at each of the frequencies during the scan. The time to exercise the EUT is not interpreted as a total time of a program or a cycle but related to the reaction time in case of failure of the EUT.

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8.2. Block Diagram of Test Setup



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8.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E115	Signal Generator	Aglient	N5182A	MY49060745	2026-01-13	2027-01-12
AGC-EM-E041	Directional Couple	Werlatonee	C6026-10	99482	2026-01-13	2028-01-12
AGC-EM-E040	Directional Couple	Werlatonee	C5571-10	99463	2026-01-13	2028-01-12
AGC-EM-E035	Power Probe	R&S	URV5-Z4	100124	2025-03-24	2027-03-23
AGC-EM-E005	Power Meter	R&S	NRVD	8323781027	2025-03-24	2027-03-23
AGC-EM-E016	Power Amplifier	KALMUS	7100LC	04-02/17-06-001	2025-07-18	2026-07-17
AGC-EM-E160	Power Amplifier	TESEQ	CBA3G-100	T43913	2025-05-21	2026-05-20
AGC-EM-E080	Power Amplifier	Rflight	NTWPA-2560100	17063183	2025-07-18	2026-07-17
AGC-EM-E029	Double-Ridged Waveguide Horn Antenna	ETS-LINDGREN	3117	00034609	2026-03-14	2027-03-13
AGC-EM-E028	Wideband Antenna	ETS-LINDGREN	3142C	00060447	N/A	N/A

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S006	TS+[JS35-RS]	Tonscend	For EMC Measurement, Version 2.0.1.8

8.4. Configuration of the EUT and method of measurement

- The Equipment Under Test (EUT) was positioned within the Uniform Field Area (UFA) on a supporting table, ensuring a 3-meter separation from the transmitting antenna. This setup aligns with the calibrated square area, guaranteeing field uniformity during testing. The supporting units were strategically located outside the UFA to avoid any potential interference. Nonetheless, the cables connected to the EUT were intentionally exposed to the precisely calibrated field within the UFA.
- Before testing, it will verify the proper operation of the test equipment/system. This verification will involve measuring the field strength at one point within the Uniform Field Area (UFA) at various frequencies.
- The test shall be performed according to the above requirements and block diagram which shall specify the test setup.
- The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance criterion defined in the report.

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8.5. Test Summary

Test Engineer	Carl Duan	Temperature	21.7 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Test Mode(s)	Mode 1/2/3	Relative Humidity	62.0 %
Verdict	Pass		

Frequency	Exposed Side	Field Strength (V/m)	Observation	Performance
80MHz to 6GHz	Front	3V/m (rms)	No performance degradation	A
	Left		No performance degradation	A
	Rear		No performance degradation	A
	Right		No performance degradation	A

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9. Measurement of Radio-frequency common mode

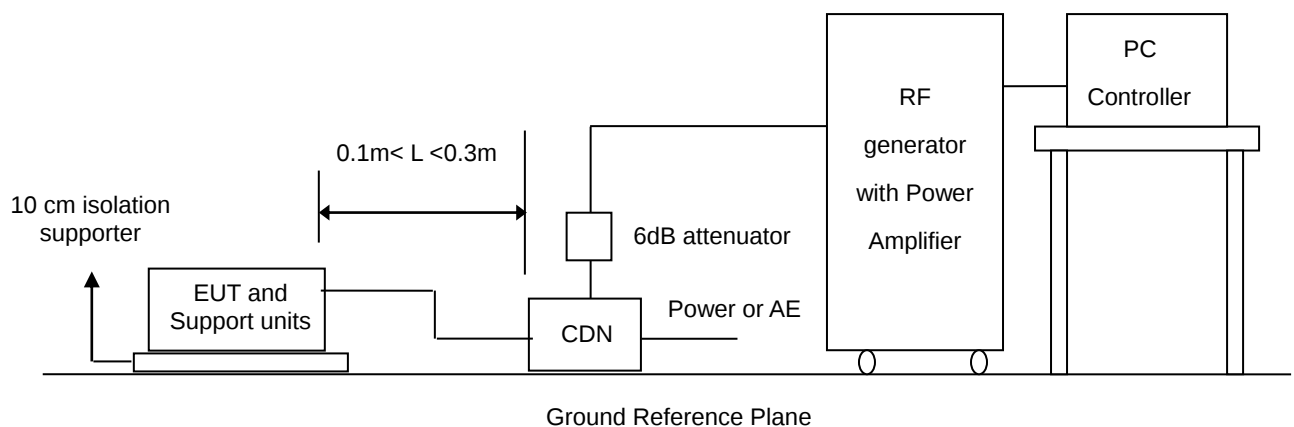
9.1. Requirements

Port	☒ AC mains power ports	☐ signal, wired network and control ports ^a	☐ DC power ports ^a
Basic Standard	EN 61000-4-6		
Required Performance Criterion	A		
Test Level	0.15 to 80 MHz, 3 V RMS (unmodulated), 80 % AM (1 kHz)		
Step size increment ^b	1%		
Dwell time ^c	≤5 seconds		

Notes:

- Applicable only to ports which, according to the manufacturer's specification, supports cable lengths greater than 3 m.
- Recognizing that a 1% step size is preferred, the frequency range can be swept incrementally with a step size not exceeding 4% of the previous frequency with a test level of twice the value of the specified test level in order to reduce the testing time for equipment requiring testing in multiple configurations and/or long cycle times.
- The dwell time at each frequency shall not be less than the time necessary for the EUT to be exercised and to be able to respond. However, the dwell time shall not exceed 5 seconds at each of the frequencies during the scan. The time to exercise the EUT is not interpreted as a total time of a program or a cycle but related to the reaction time in case of failure of the EUT.

9.2. Block Diagram of Test Setup



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9.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E017	Power Amplifier	AR	75A250	18464	2025-07-18	2026-07-17
AGC-EM-E161	CDN	3C TEST	CDN M2M3	ES064002624028	2025-09-05	2026-09-04
AGC-EM-A048	Attenuator	ZHINAN	E-002	N/A	2024-07-24	2026-07-23
AGC-EM-E035	Power Probe	R&S	URV5-Z4	100124	2025-03-24	2027-03-23
AGC-EM-E005	Power Meter	R&S	NRVD	8323781027	2025-03-24	2027-03-23
AGC-EM-E040	Directional Coupler	Werlatone	C5571-10	99463	2026-01-13	2028-01-12
AGC-EM-E115	Signal Generator	Aglient	N5182A	MY49060745	2026-01-13	2027-01-12

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S007	TS+[JS35-CS]	Tonscend	For EMC measurement, version 2.0.1.7

9.4. Configuration of the EUT and method of measurement

- The Equipment Under Test (EUT) shall be tested within its intended operating and climatic conditions.
- The test generator and the coupling/decoupling network shall be placed directly on, and bonded to, the ground reference plane. The test shall be performed with the test generator connected to each of the coupling devices (CDN, EM clamp, current clamp) in turn. All other cables not under test shall either be disconnected (when functionally allowed) or provided with decoupling networks or unterminated CDNs only.
- The test shall be performed according to the above requirements and block diagram which shall specify the test setup.
- The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance criterion defined in the report.

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9.5. Test Summary

Test Engineer	Carpe Lin	Temperature	20.9 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Test Mode(s)	Mode 1/2/3	Relative Humidity	54.1 %
Verdict	Pass		

Test port	Test Level	Coupling method	Observation	Performance
AC Mains Input	3 V	CDN	No performance degradation	A

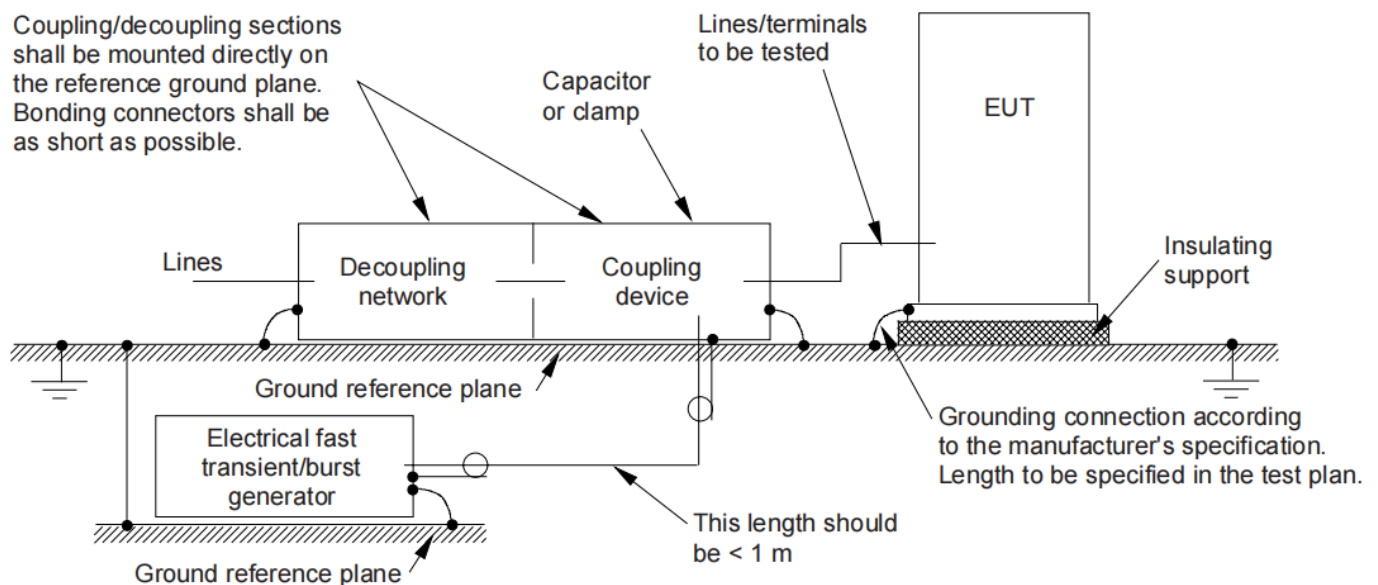
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10. Measurement of Fast Transients

10.1. Requirements

Port	☒ AC mains power ports	☐ signal, wired network and control ports ^a	☐ DC power ports ^a
Basic Standard	EN 61000-4-4		
Required Performance Criterion	B		
Test Level	1 kV (peak)	0.5 kV (peak)	0.5 kV (peak)
Polarity	Positive/Negative		
Impulse Frequency	5kHz		
Impulse wave shape	5/50ns		
Burst Duration	15ms		
Burst Period	300ms		
Notes:			
a. Applicable only to ports which, according to the manufacturer's specification, supports cable lengths greater than 3 m.			

10.2. Block Diagram of Test Setup



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10.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E008	EFT/Surge/DIPS Generator	Schaffner	Modula 6150	34437	2025-05-08	2026-05-07

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S009	WinModula	Schaffner	For EFT/Surge/Dips Measurement, Version 2.31 c

10.4. Configuration of the EUT and method of measurement

- The Equipment Under Test (EUT), whether stationary floor-mounted or table top, and equipment designed to be mounted in other configurations, shall be placed on a ground reference plane and shall be insulated from it by an insulating support 0,1 m $\pm$ 0,01 m thick.
- The test generator and the coupling/decoupling network shall be placed directly on, and bonded to, the ground reference plane.
- The EUT shall be arranged and connected to satisfy its functional requirements, according to the equipment installation specifications. The minimum distance between the EUT and all other conductive structures (e.g. the walls of a shielded room), except the ground reference plane shall be more than 0,5 m. All cables to the EUT shall be placed on the insulation support 0,1 m above the ground reference plane. Cables not subject to electrical fast transients shall be routed as far as possible from the cable under test to minimize the coupling between the cables.
- The test voltages shall be coupled to all of the EUT ports including those between two units of equipment involved in the test, unless the length of the interconnecting cable makes it impossible to test.
- Either a direct coupling network or a capacitive clamp shall be used for the application of the test voltages.
- The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance criterion defined in the report.

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10.5. Test Summary

Test Engineer	Carpe Lin	Temperature	21.2 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Test Mode(s)	Mode 1/2/3	Relative Humidity	53.7 %
Verdict	Pass		

Inject Line	Voltage(kV)	Inject Method	Observation	Performance
AC Lines	0.5, 1	Direct	No degradation of performance	A

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11. Measurement of Surges

11.1. Requirements

Port	☒ AC mains power ports ^a	☐ signal, wired network and control ports ^b	☐ DC network power ports ^b
Basic Standard	EN 61000-4-5		
Required Performance Criterion	B	B	B
Test Level	Line to line: 1 kV; Line to ground: 2 kV	shield to ground: 0.5 kV	Line to ground: 0.5 kV
Tr/Th	1.2/50 (8/20) μ s		
Number of impulses	Five positive and five negative impulses		
Time between successive impulses	1 min		

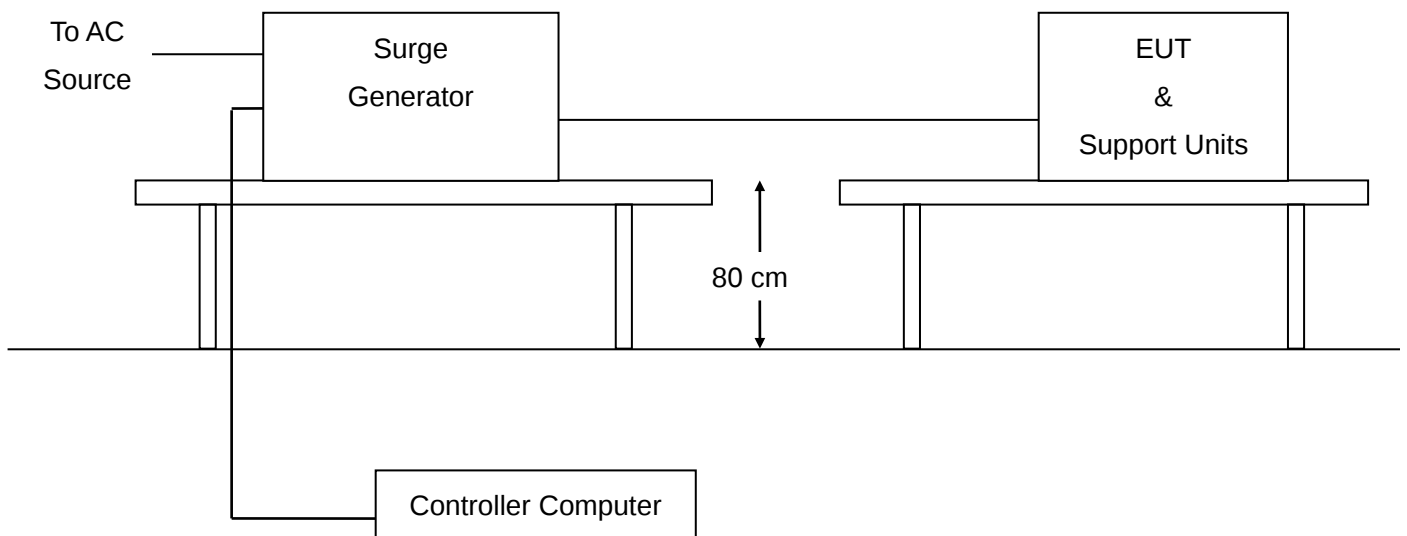
Notes:

- The number of pulses applied shall be as follows:
 - Five positive pulses line-to-neutral at 90° phase.
 - Five negative pulses line-to-neutral at 270° phase.

The following additional pulses are required only if the EUT has an earth connection or if the EUT is earthed via any AE:

 - Five positive pulses line-to-earth at 90° phase.
 - Five negative pulses line-to-earth at 270° phase.
 - Five negative pulses neutral-to-earth at 90° phase.
 - Five positive pulses neutral-to-earth at 270° phase.
- Applicable only to ports which, according to the manufacturer's specification, supports cable lengths greater than 3 m.

11.2. Block Diagram of Test Setup



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11.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E008	EFT/Surge/DIPS Generator	Schaffner	Modula 6150	34437	2025-05-08	2026-05-07

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S009	WinModula	Schaffner	For EFT/Surge/Dips Measurement, Version 2.31 c

11.4. Configuration of the EUT and method of measurement

- Verification shall be performed. It is preferable to perform the verification prior to the test.
- The test shall be performed according to the above requirements and block diagram which shall specify the test setup.
- When testing line-to-ground, the lines are tested individually in sequence, if there is no other specification.
- The test procedure shall also consider the non-linear current-voltage characteristics of the equipment under test. Therefore, all lower test levels including the selected test level shall be tested.
- The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance criterion defined in the report.

11.5. Test Summary

Test Engineer	Carpe Lin	Temperature	21.2 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Test Mode(s)	Mode 1/2/3	Relative Humidity	53.7 %
Verdict	Pass		

Test port	Coupling	Voltage(kV)	Observation	Performance
AC Mains Input	line-to-neutral	0.5, 1	No degradation of performance	A

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12. Measurement of Voltage dips and interruptions

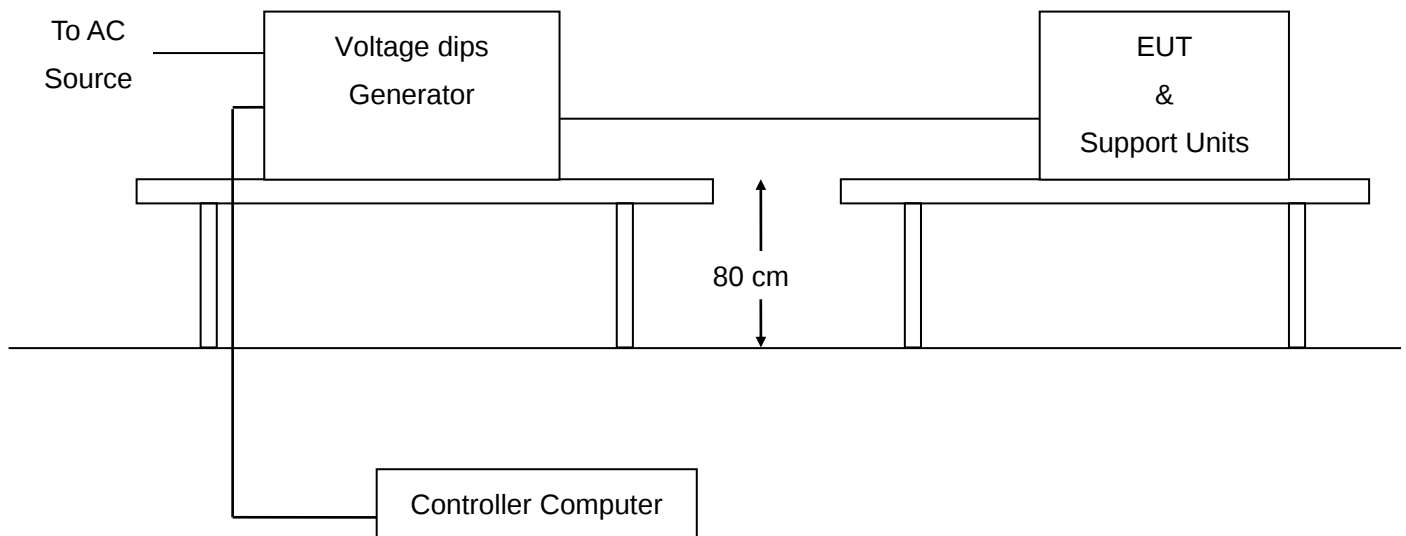
12.1. Requirements

Port	AC mains power ports			
Basic Standard	EN 61000-4-11			
Required Performance Criterion	B	B	C	C
Residual voltage ^a	0 %	0 %	70 %	0 %
Number of cycles ^b	0.5	1	25 for 50 Hz	250 for 50 Hz
Variation/dip repetition	Sequence of three dips/interruptions with an interval of 10 seconds between each test			

Notes:

- Changes to occur at 0 degree crossover point of the voltage waveform. If the EUT does not demonstrate compliance when tested with 0 degree switching, the test shall be repeated with the switching occurring at both 90 degrees and 270 degrees. If the EUT satisfies these alternative requirements, then it fulfils the requirements.
- Apply at only one supply frequency of the EUT.

12.2. Block Diagram of Test Setup



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12.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E008	EFT/Surge/DIPS Generator	Schaffner	Modula 6150	34437	2025-05-08	2026-05-07

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S009	WinModula	Schaffner	For EFT/Surge/Dips measurement, version 2.31 c

Auxiliary Apparatus

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
--	--	--	--	--	--

12.4. Configuration of the EUT and method of measurement

- The test shall be performed according to the above requirements and block diagram which shall specify the test setup.
- The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance criterion defined in the report.

12.5. Test Summary

Test Engineer	Carpe Lin	Temperature	21.2 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Test Mode(s)	Mode 1/2/3	Relative Humidity	53.7 %
Verdict	Pass		

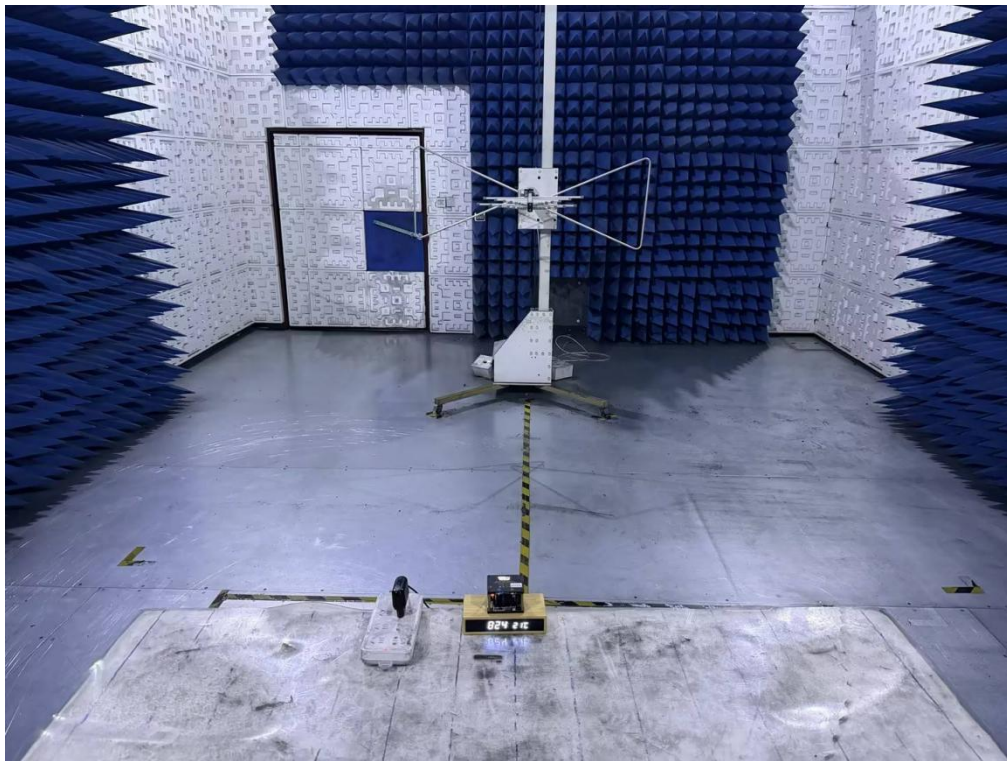
Test port	Residual voltage (%)	Cycles	Observation	Performance
AC Mains Input	0	0.5	No degradation of performance	A
	0	1	No degradation of performance	A
	70	25	No degradation of performance	A
	0	250	EUT power cycled	B

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13. Photographs of Test Setup

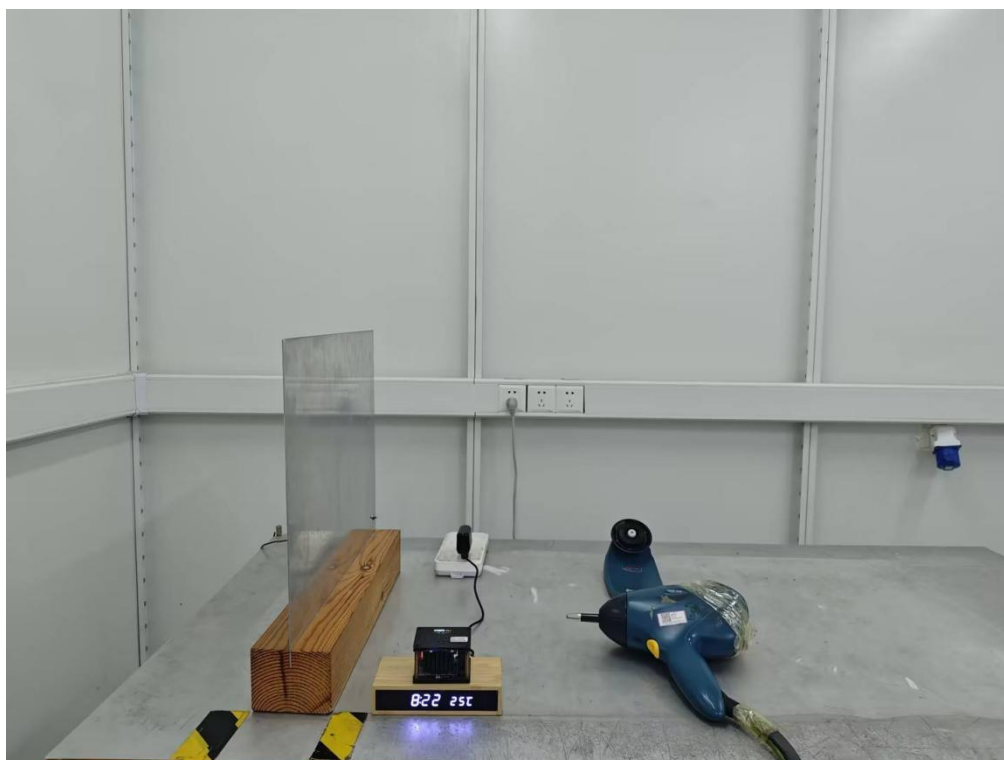


Conducted emissions from the AC mains power ports

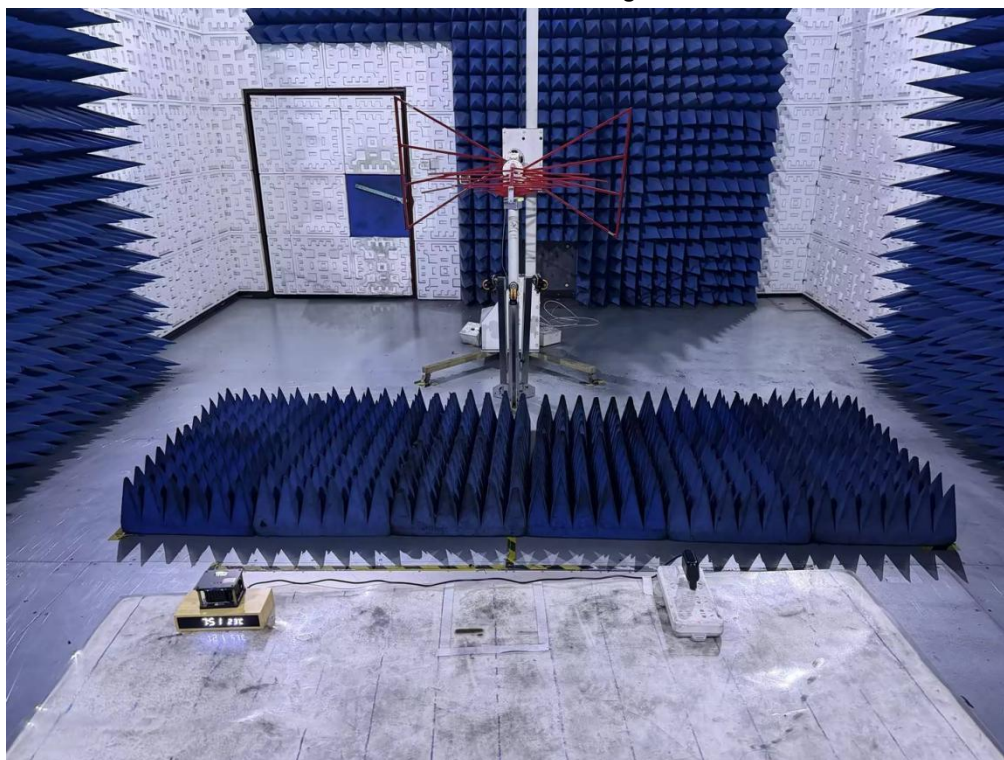


Radiated emissions at frequencies up to 1 GHz

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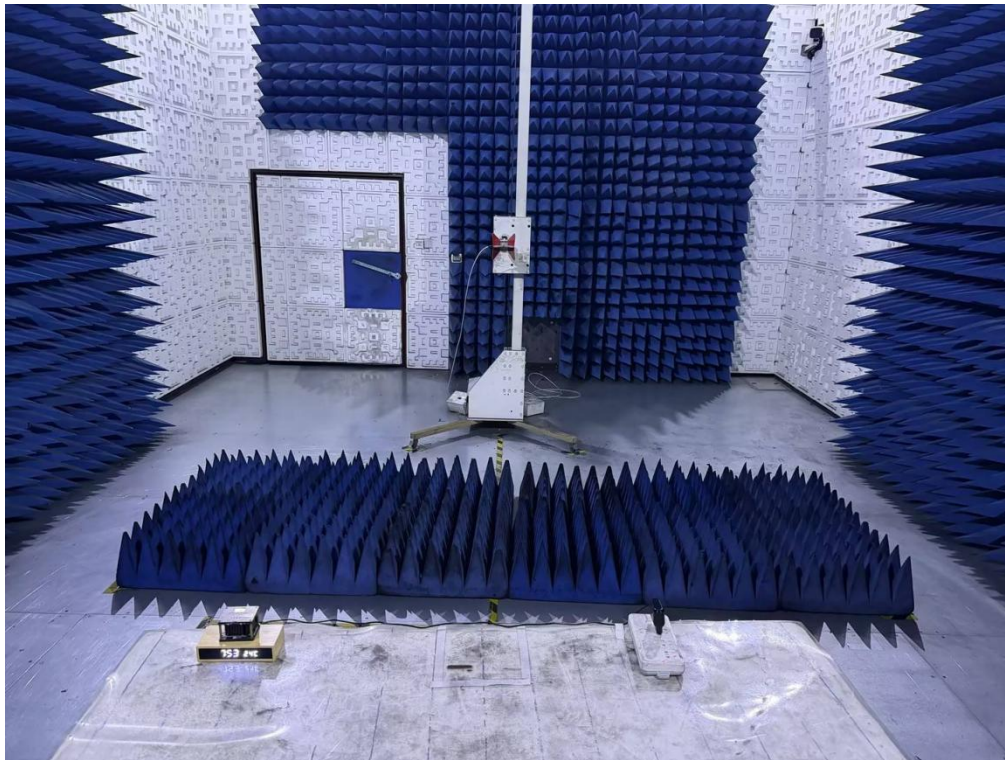
Electrostatic discharge



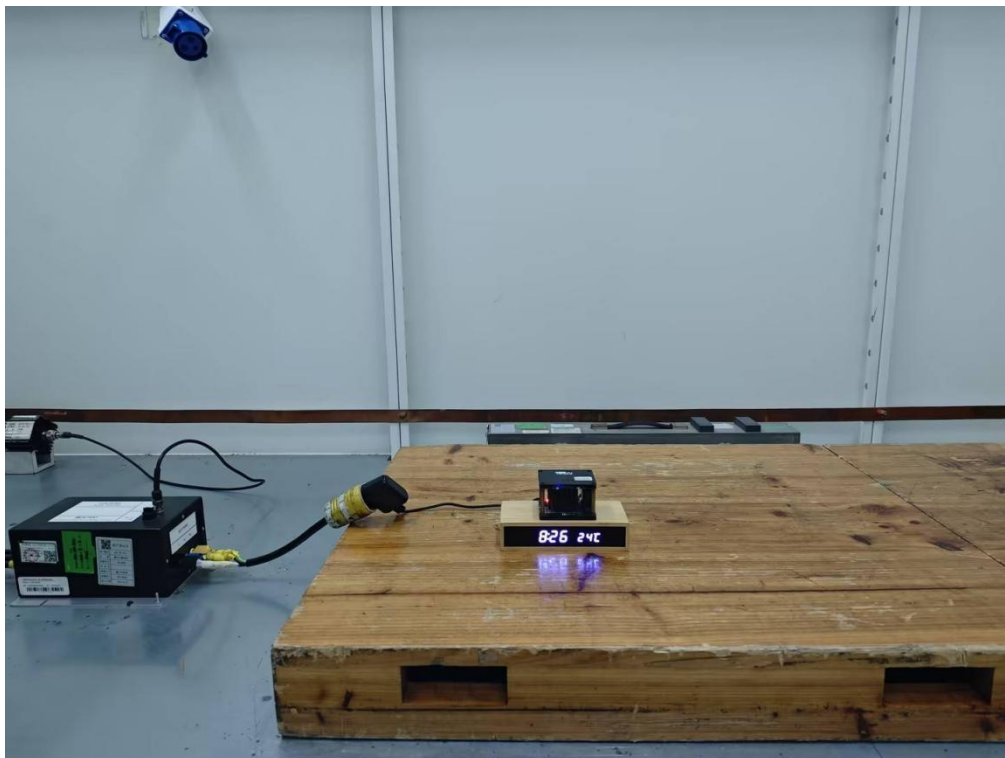
Radio-frequency electromagnetic field up to 1 GHz

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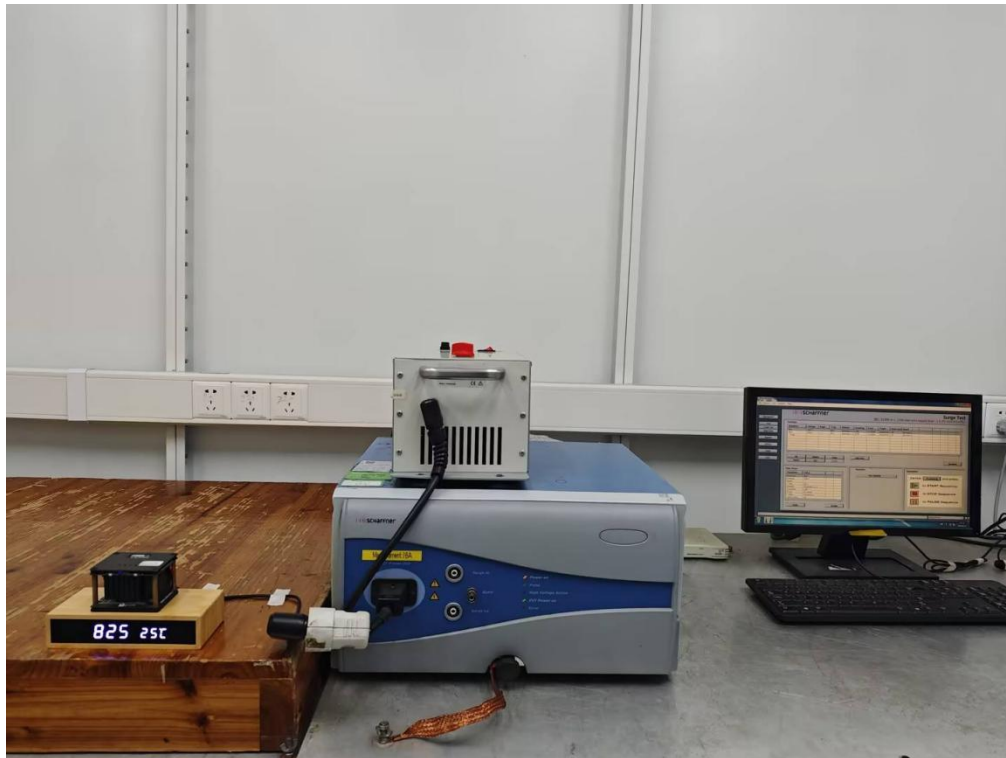


Radio-frequency electromagnetic field above 1 GHz



Radio-frequency common mode at the AC mains power ports

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Fast transients/Surges/ Voltage dips at the AC mains power ports

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14. Photographs of EUT

Refer to the Report No.: AGC16419260402AP01

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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EMC Test Report

Report No.: AGC16419260402EE01

PRODUCT DESIGNATION : Wireless charger in bamboo

BRAND NAME : N/A

MODEL NAME : M06139

APPLICANT : MID OCEAN BRANDS B.V.

DATE OF ISSUE : Apr. 27, 2026

STANDARD(S) : EN 55032:2015+A11:2020+A1:2020
EN 55035:2017+A11:2020
EN IEC 61000-3-2:2019+A1:2021+A2:2024
EN 61000-3-3:2013+A1:2019+A2:2021

REPORT VERSION : V1.0



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 27, 2026	Valid	Initial release

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1. General information

Applicant	MID OCEAN BRANDS B.V.
Address	Unit 711 716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer	MID OCEAN BRANDS B.V.
Address	Unit 711 716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Factory	MID OCEAN BRANDS B.V.
Address	Unit 711 716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Product Designation	Wireless charger in bamboo
Brand Name	N/A
Test Model	MO6139
Series Model(s)	N/A
Difference Description	N/A
Deviation from Standard	No any deviation from the test method
Date of receipt of test item	Apr. 13, 2026
Date of Test	Apr. 13, 2026 to Apr. 27, 2026
Test Result	Pass
Test Report Form No	AGCER-EMC-GEN-V1
Note: The test results of this report relate only to the tested sample identified in this report.	

Prepared By



CiCi Li
(Project Engineer)

Apr. 27, 2026

Reviewed By



Jack Gui
(Reviewer)

Apr. 27, 2026

Approved By



Angela Li
(Authorized Officer)

Apr. 27, 2026

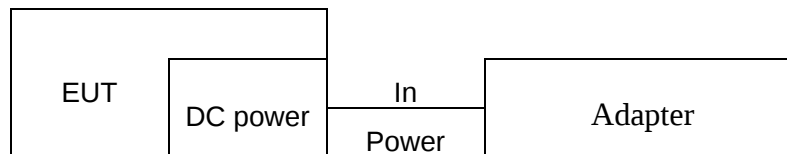
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2. Description of Test Configuration

2.1. Technical Description of Product

Categorization of Equipment	Class B equipment
Test arrangements of EUT	Table-top
Hardware Version	V1.0
Software Version	V1.0
Highest Internal Frequency	Less than 108MHz
EUT Input Rating	5V $\approx$ 2A
EUT Output Rating	5V $\approx$ 1A, Wireless Output: 5W Max.
Adapter Information	Model: MO6139 Input: 100-240V~, 50/60Hz, 0.45A Output: 5V $\approx$ 2A

Connection Diagram of Host System



I/O Port Information (☒Applicable ☐Not Applicable)

Port Type	Input/Output	Number	Cable Description
DC power	In	1	0.95m, unshielded

2.2. Description of Support Equipment

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Adapter	--	MO6139	--	--	0.95m, unshielded

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2.3. Description of Test Modes

No.	Test Mode Description
1	Normal operation mode

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3. Summary of Measurement Results and Uncertainty

3.1. Test Specifications

EN 55032:2015+A11:2020+A1:2020	Electromagnetic compatibility of multimedia equipment - Emission requirements
EN 55035:2017+A11:2020	Electromagnetic compatibility of multimedia equipment - Immunity requirements
EN IEC 61000-3-2:2019+A1:2021+A2:2024	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current 16 A per phase)
EN 61000-3-3:2013+A1:2019+A2:2021	Electromagnetic compatibility (EMC) Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

3.2. Description of Measurement Results

Test items	Test Standard(s)	Verdict
Conducted emissions from the AC mains power ports	EN 55032	Pass
Radiated emissions at frequencies up to 1 GHz	EN 55032	Pass
Harmonic current emissions	EN IEC 61000-3-2	Pass
Voltage fluctuations and flicker	EN 61000-3-3	Pass
Electrostatic discharge	IEC 61000-4-2 ^a	Pass
Radio-frequency electromagnetic field	IEC 61000-4-3 ^a	Pass
Fast transients	IEC 61000-4-4 ^a	Pass
Surges	IEC 61000-4-5 ^a	Pass
Radio-frequency common mode (Injected currents)	IEC 61000-4-6 ^a	Pass
Voltage dips and interruptions	IEC 61000-4-11 ^a	Pass

Note:

a. The applicable versions of the basic standards are defined in the standard which listed in the test specification.

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Performance table

Performance Criteria for Immunity	
Performance criterion A	The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment 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 equipment if used as intended.
Performance criterion B	During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test. After the test, the equipment 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 equipment 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), or recovery time, 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 equipment if used as intended.
Performance criterion C	Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

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3.3. Description of Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Conducted emissions from the AC mains power ports	$U_c = \pm 2.9 \text{ dB}$
Radiated emissions at frequencies up to 1 GHz	$U_c = \pm 3.9 \text{ dB}$
Radiated emissions at frequencies above 1 GHz	$U_c = \pm 4.9 \text{ dB}$

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4. Test Facility

Laboratory name: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Laboratory Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This laboratory also meets the requirements of any additional program requirements in the Electrical field.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842

CAB identifier: CN0063

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

VCCI Membership No.: 4112

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered in accordance with VCCI Council Rules.

VCCI Registration No. C-20098 for conducted emissions at AC main power ports

VCCI Registration No. T-20102 for conducted emissions at telecommunication ports

VCCI Registration No. R-20136 for radiated emissions below 1GHz

VCCI Registration No. G-20132 for radiated emissions above 1GHz

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5. Measurement of Conducted Emissions from the AC Mains Power Ports

5.1. Requirements

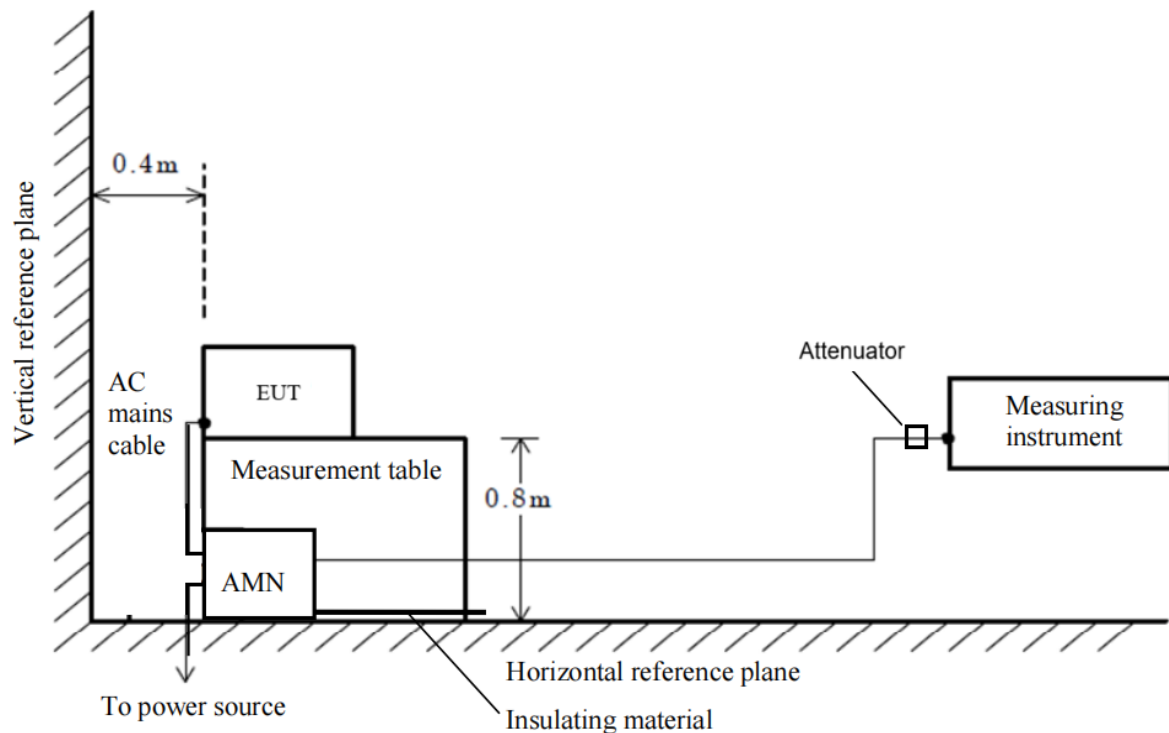
Requirements for conducted emissions, low voltage AC mains port

Network device	Detector type/ bandwidth	Frequency Range (MHz)	Limits dB(μ V)	Measurement specifications
AMN	Quasi-peak/ 9kHz	0.15 to 0.5	66 to 56	Instrumentation: CISPR 16-1-1, Clauses 4, 5 and 7
		0.5 to 5	56	
		5 to 30	60	
	Average/ 9kHz	0.15 to 0.5	56 to 46	Networks: CISPR 16-1-2, Clause 4
		0.5 to 5	46	Method: CISPR 16-2-1, Clause 7
		5 to 30	50	Set-up: CISPR 16-2-1, Clause 7

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.5MHz.

5.2. Block Diagram of Test Setup



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5.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E116	Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
AGC-EM-E023	Artificial Mains Network	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07
AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	N/A	2026-01-13	2028-01-12

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S001	ES-K1	R&S	For EMC Measurement, Version 1.71

5.4. Configuration of the EUT and method of measurement

- The EUT was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, the EUT was placed on the top surface of a measurement table, 0.8 m high from the horizontal reference plane, and was positioned at a distance of 0.4 m away from the vertical reference plane. When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 10 cm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per CISPR 16-2-1.
- All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-1.
- The EMI receiver measured the emission levels emanating from the EUT into the AC Mains through an Artificial Mains Network (AMN) and an attenuator used on the front end of the EMI receiver. Testing included measurements on all live and neutral lines.
- The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.
- Record at least six highest emissions relative to the limits at each frequency of interest unless the emission is 10 dB or greater below the limit.
- A conducted emission is calculated by the following equation:
 - Measurement Level (dB μ V) = Receiver reading (dB μ V) + Tansd (dB)
 - Transd(dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
 - Margin= Limit-Level

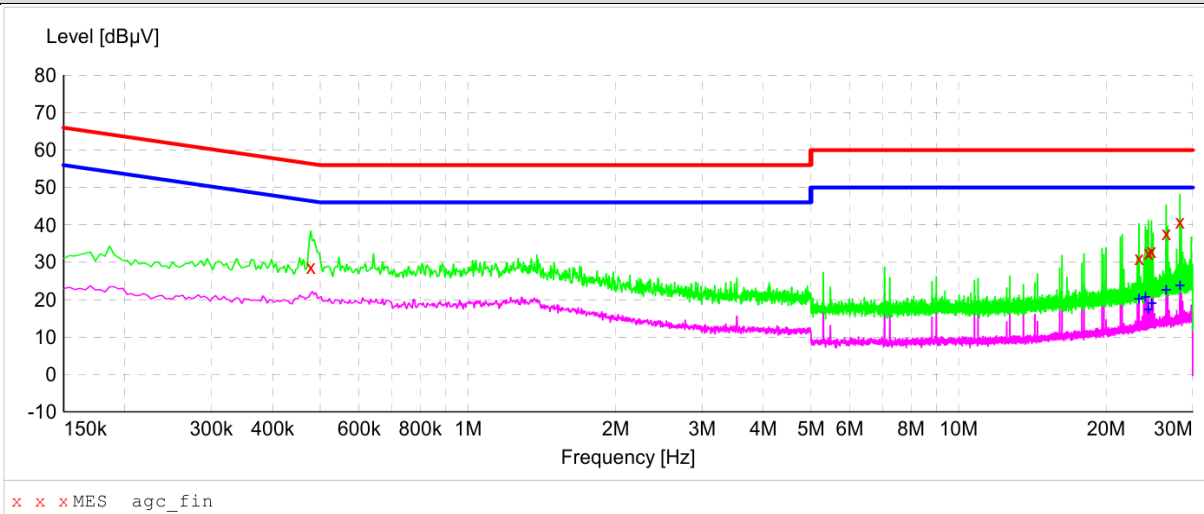
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5.5. Test Summary

Test Engineer	Carpe Lin	Temperature	22.9 °C
Test Date	2026-04-19	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	57.2 %
Verdict	Pass		

Test graph and data for Conducted Emission

Test Mode: Mode 1

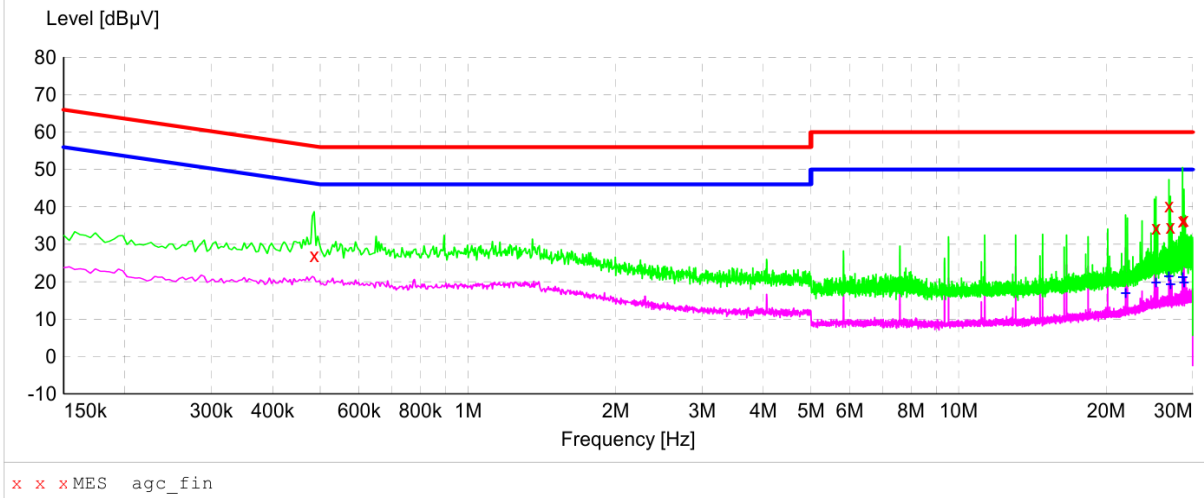


Frequency [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Detector	Line
0.478000	28.8	10.3	56.4	27.6	QP	L1
23.314000	31.0	16.0	60.0	29.0	QP	L1
24.378000	32.4	16.4	60.0	27.6	QP	L1
24.730000	33.0	16.5	60.0	27.0	QP	L1
26.494000	37.7	17.1	60.0	22.3	QP	L1
28.258000	40.9	17.6	60.0	19.1	QP	L1
23.314000	20.1	16.0	50.0	29.9	AV	L1
24.022000	20.7	16.3	50.0	29.3	AV	L1
24.378000	17.3	16.4	50.0	32.7	AV	L1
24.730000	18.9	16.5	50.0	31.1	AV	L1
26.494000	22.5	17.1	50.0	27.5	AV	L1
28.258000	23.7	17.6	50.0	26.3	AV	L1

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Test graph and data for Conducted Emission

Test Mode: Mode 1



Frequency [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Detector	Line
0.486000	27.1	10.3	56.2	29.1	QP	N
25.254000	34.5	16.7	60.0	25.5	QP	N
26.842000	40.3	17.2	60.0	19.7	QP	N
27.022000	34.7	17.3	60.0	25.3	QP	N
28.606000	36.4	17.7	60.0	23.6	QP	N
28.790000	36.5	17.8	60.0	23.5	QP	N
21.898000	16.8	15.5	50.0	33.2	AV	N
25.258000	19.6	16.7	50.0	30.4	AV	N
26.842000	21.4	17.2	50.0	28.6	AV	N
27.022000	19.2	17.3	50.0	30.8	AV	N
28.606000	21.0	17.7	50.0	29.0	AV	N
28.790000	19.8	17.8	50.0	30.2	AV	N

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6. Measurement of Radiated Emissions at Frequencies up to 1 GHz

6.1. Requirements

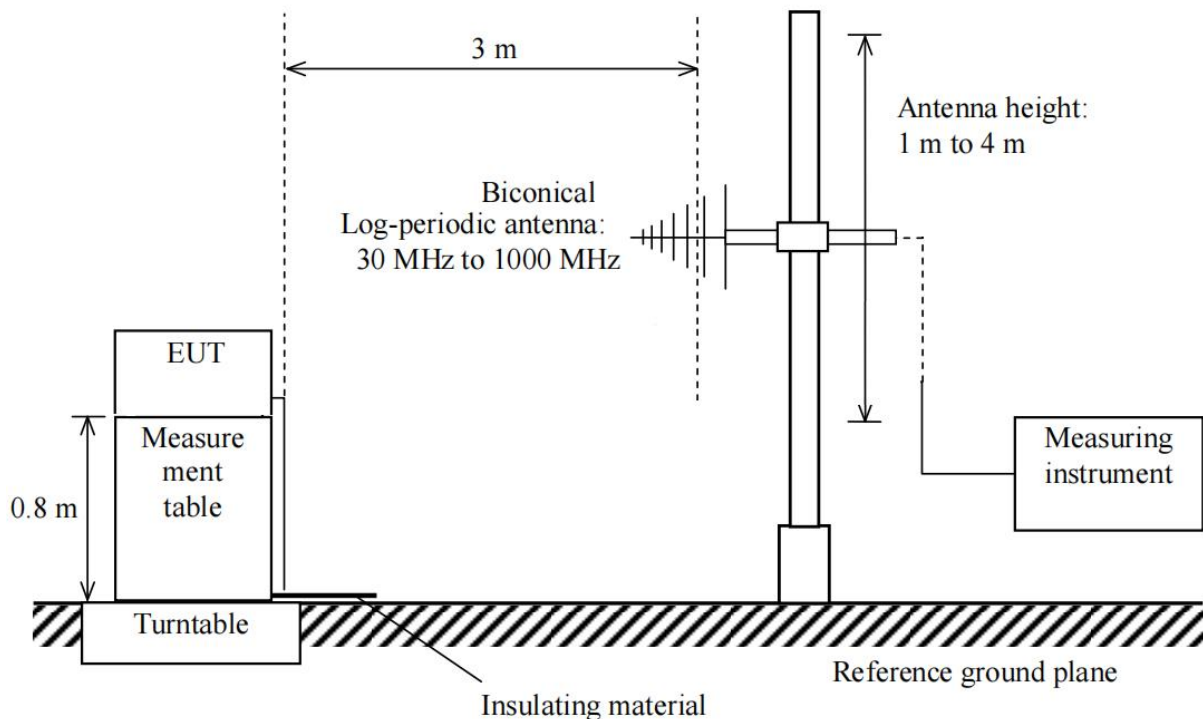
Requirements for radiated emissions at frequencies up to 1 GHz at 3m distance

Test facility	Detector type/ bandwidth	Frequency Range (MHz)	Limits dB(μ V/m)	Measurement specifications
SAC	Quasi-peak/ 120kHz	30 to 230	40	Instrumentation: CISPR 16-1-1, Clauses 4, 5 Antennas: CISPR 16-1-4, Clause 4.5 Test Site: CISPR 16-1-4, Clause 6 Method: CISPR 16-2-3, Clause 7.6
		230 to 1000	47	

Note:

- The lower limit shall apply at the transition frequency.

6.2. Block Diagram of Test Setup



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6.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E046	Test Receiver	R&S	ESCI	100096	2026-01-13	2027-01-12
AGC-EM-E001	Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
AGC-EM-A138	Attenuator	East sheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S003	EZ-EMC	FARA	For EMC Measurement, Version RA-03A

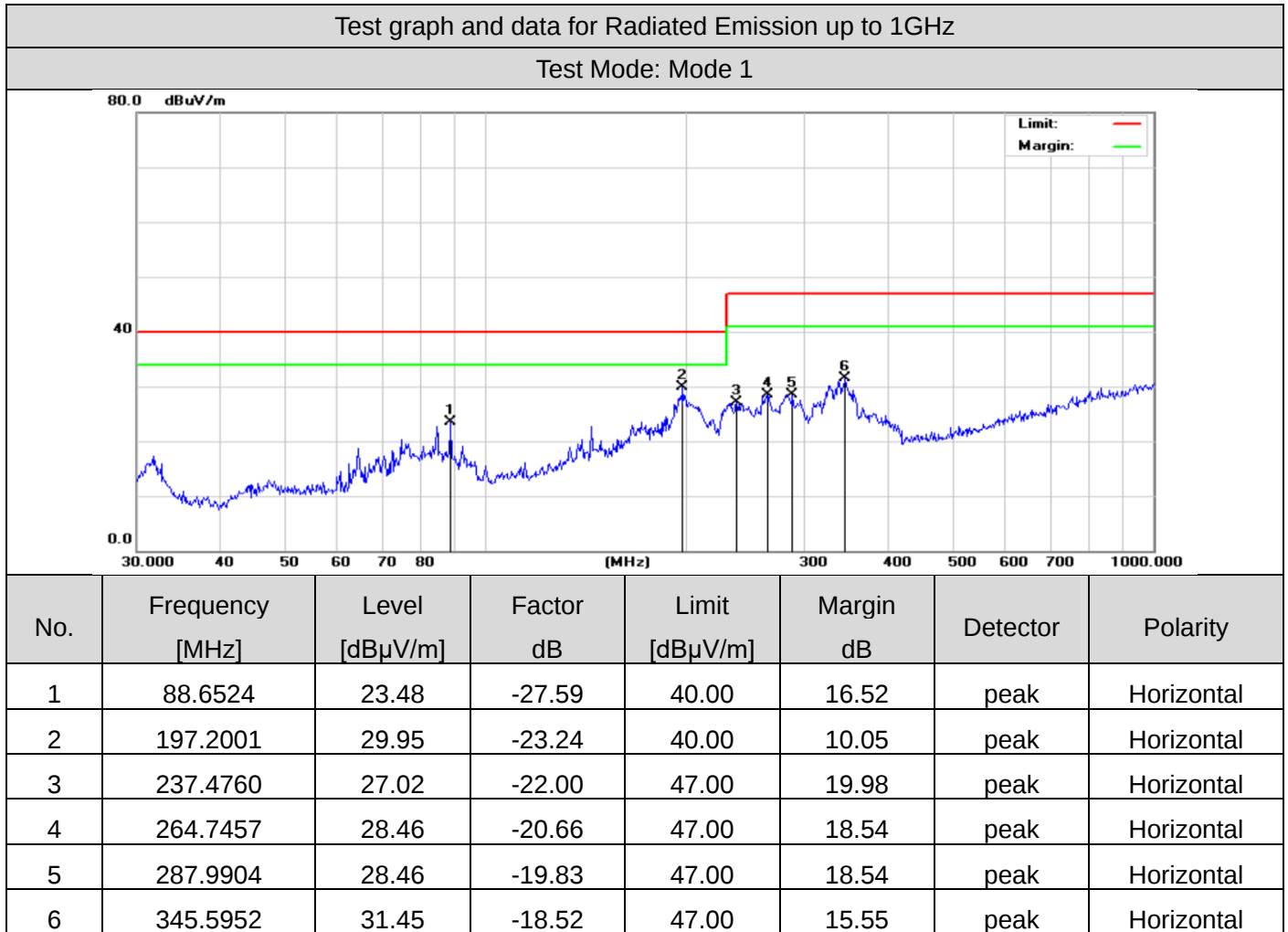
6.4. Configuration of the EUT and method of measurement

- The EUT was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, the EUT was placed on the top surface of a measurement table, 0.8 m high from the horizontal reference plane. When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 10 cm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per CISPR 16-2-3.
- All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-3.
- The maximum receiving level of radiated emissions from the EUT was measured while the turntable was rotated from 0° to 360° and the antenna height was scanned between 1 m and 4 m. The cables were laid out to attain the maximum level of radiated emissions.
- The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.
- Record at least six highest emissions relative to the limits at each frequency of interest unless the emission is 10 dB or greater below the limit.
- A radiated emission is calculated by the following equation:
 - Measurement Level dB(μV/m) = Receiver reading dB(μV) + Factor(dB/m)
 - Factor(dB/m) = Antenna Factor(dB/m) + Cable Loss(dB)
 - Margin= Limit-Level

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6.5. Test Summary

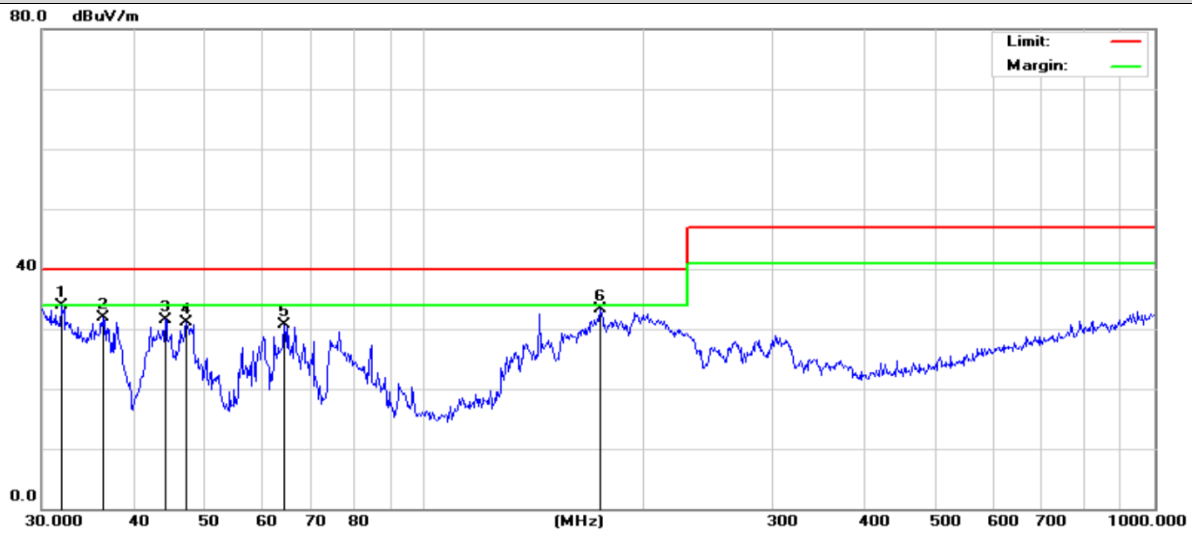
Test Engineer	Carl Duan	Temperature	21.7 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	62.0 %
Verdict	Pass		



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Test graph and data for Radiated Emission up to 1GHz

Test Mode: Mode 1



No.	Frequency [MHz]	Level [dBμV/m]	Factor dB	Limit [dBμV/m]	Margin dB	Detector	Polarity
1	31.9545	33.84	-23.25	40.00	6.16	peak	Vertical
2	36.3813	31.87	-22.68	40.00	8.13	peak	Vertical
3	44.2751	31.60	-21.48	40.00	8.4	peak	Vertical
4	47.3253	31.05	-21.32	40.00	8.95	peak	Vertical
5	64.4330	30.76	-22.06	40.00	9.24	peak	Vertical
6	174.4241	33.39	-20.70	40.00	6.61	peak	Vertical

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7. Measurement of Harmonic Current Emissions

7.1. Requirements

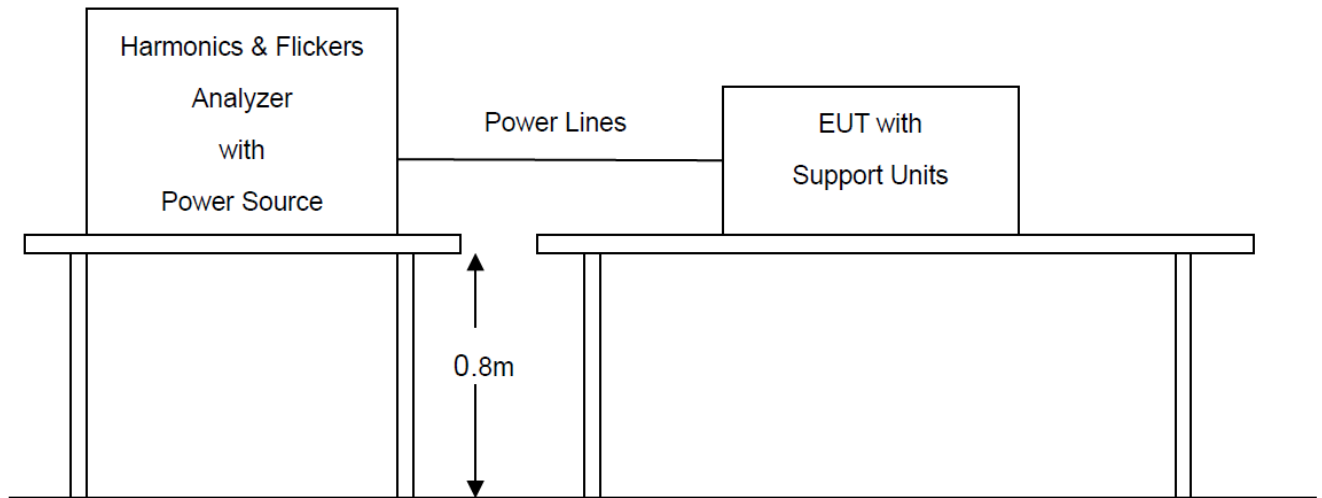
Applicable test standard(s): EN IEC 61000-3-2:2019+A1:2021

Limits of Harmonic Current Emissions

Harmonic order <i>h</i>	Limits				
	Class A	Class B	Class C ^a	Class D	
	Maximum permissible harmonic current (A)		Maximum permissible harmonic current expressed as a percentage of the input current at the fundamental frequency (%)	Maximum permissible harmonic current per watt (mA/W)	Maximum permissible harmonic current (A)
3	2.30	3.45	27 ^b	3.4	2.30
5	1.14	1.71	10	1.9	1.14
7	0.77	1.155	7	1.0	0.77
9	0.40	0.6	5	0.5	0.40
11	0.33	0.495	3	0.35	0.33
13	0.21	0.315	3	3.85/13	0.21
15≤ <i>h</i> ≤39(odd harmonics only)	2.25/ <i>h</i>	3.375/ <i>h</i>	3	3.85/ <i>h</i>	2.25/ <i>h</i>
2	1.08	1.62	2	Not applicable	Not applicable
4	0.43	0.645	Not applicable		
6	0.30	0.45			
8≤ <i>h</i> ≤40(even harmonics only)	1.84/ <i>h</i>	2.76/ <i>h</i>			
Note: (a) For some Class C products, other emission limits apply. (b) The limit is determined based on the assumption of modern lighting technologies having power factors of 0.90 or higher.					

The application of limits had been as defined in the applicable test standard.

7.2. Block Diagram of Test Setup



7.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E033	Signal Conditioning Unit	Schaffner	CCN1000-1	72431	2025-05-16	2026-05-15
AGC-EM-E015	AC Source	Schaffner	NSG 1007	56825	2025-05-16	2026-05-15

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S005	CTS 4	AMETEK	For Harmonics And Flickers Measurement, Version 4.29.0

7.4. Configuration of the EUT and method of measurement

- The test shall be conducted according to the general requirements given in the applicable test standard. The test duration had been as defined in the applicable test standard.
- The measurement of harmonic currents shall be performed as follows:
 - for each harmonic order, measure the 1.5 s smoothed RMS harmonic current in each discrete Fourier transform (DFT) time window;
 - calculate the arithmetic average of the measured values from the DFT time windows, over the entire observation period.
- The value of the active input power to be used for the calculation of limits shall be determined as follows:
 - measure the 1.5 s smoothed active input power in each DFT time window;
 - determine the maximum of the measured values of active power from the DFT time windows over the entire duration of the test.

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- d. The harmonic currents and the active input power shall be measured under the same test conditions but need not be measured simultaneously.

7.5. Test Summary

Equipment with a rated power less than or equal to 75W is deemed to fulfil all relevant requirements of this standard without testing.

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8. Measurement of Voltage Fluctuations and Flicker

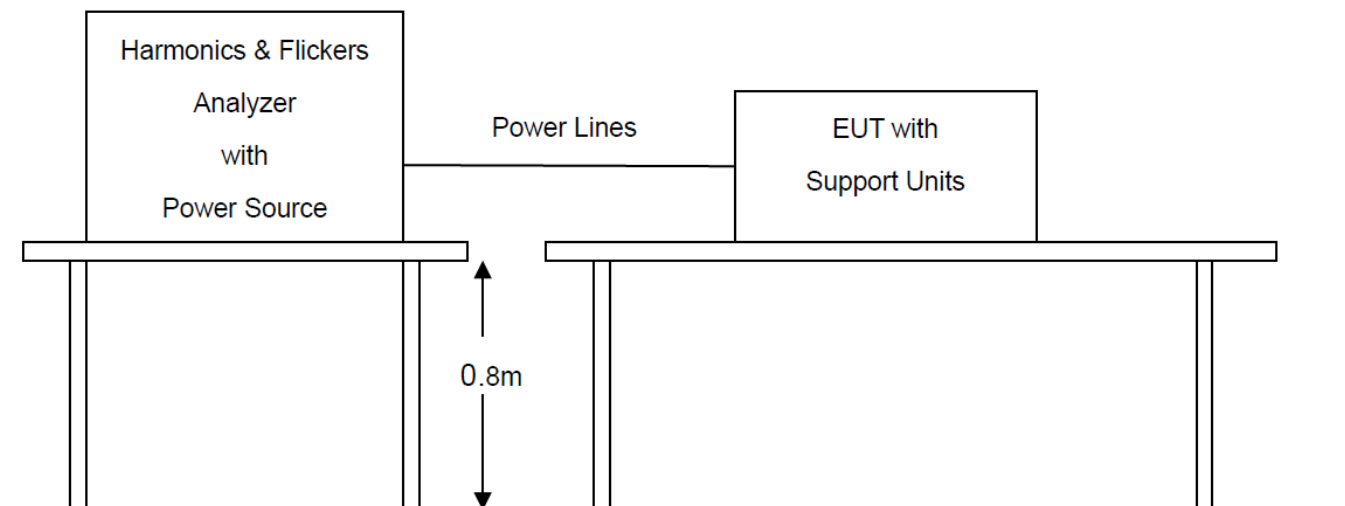
8.1. Requirements

Applicable test standard(s): EN 61000-3-3:2013+A2:2021

Limits of Voltage Fluctuations and Flicker

Parameters	Definitions	Limits
T_{max}	the accumulated time value of $d(t)$ with a deviation exceeding 3.3 % during a single voltage change at the EUT terminals	≤ 500 ms
d_c	the maximum relative steady-state voltage change	$\leq 3.3\%$
d_{max}	the maximum relative voltage change	☒ $\leq 4\%$ ☐ $\leq 6\%$ ☐ $\leq 7\%$
☒ P_{st}	short-term flicker severity	≤ 1.0
☐ P_{lt}	long-term flicker severity	≤ 0.65

8.2. Block Diagram of Test Setup



8.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E033	Signal Conditioning Unit	Schaffner	CCN1000-1	72431	2025-05-16	2026-05-15
AGC-EM-E015	AC Source	Schaffner	NSG 1007	56825	2025-05-16	2026-05-15

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S005	CTS 4	AMETEK	For Harmonics And Flickers Measurement, Version 4.29.0

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8.4. Configuration of the EUT and method of measurement

- a. The test shall be conducted according to the general requirements given in the applicable test standard.
The test duration and test condition had been as defined in the applicable test standard.
- b. All types of voltage fluctuations would been assessed by direct measurement using a flicker meter which complies with the specification given in IEC 61000-4-15:2010.

8.5. Test Summary

Test Engineer	Carpe Lin	Temperature	21.5 °C
Test Date	2026-04-19	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	52.0 %
Verdict	Pass		

Parameters	Measurement Value	Limits
T_{max}	0	≤ 500 ms
d_c	0.00	$\leq 3.3\%$
d_{max}	0.00	$\leq 4\%$
P_{st}	0.248	≤ 1.0

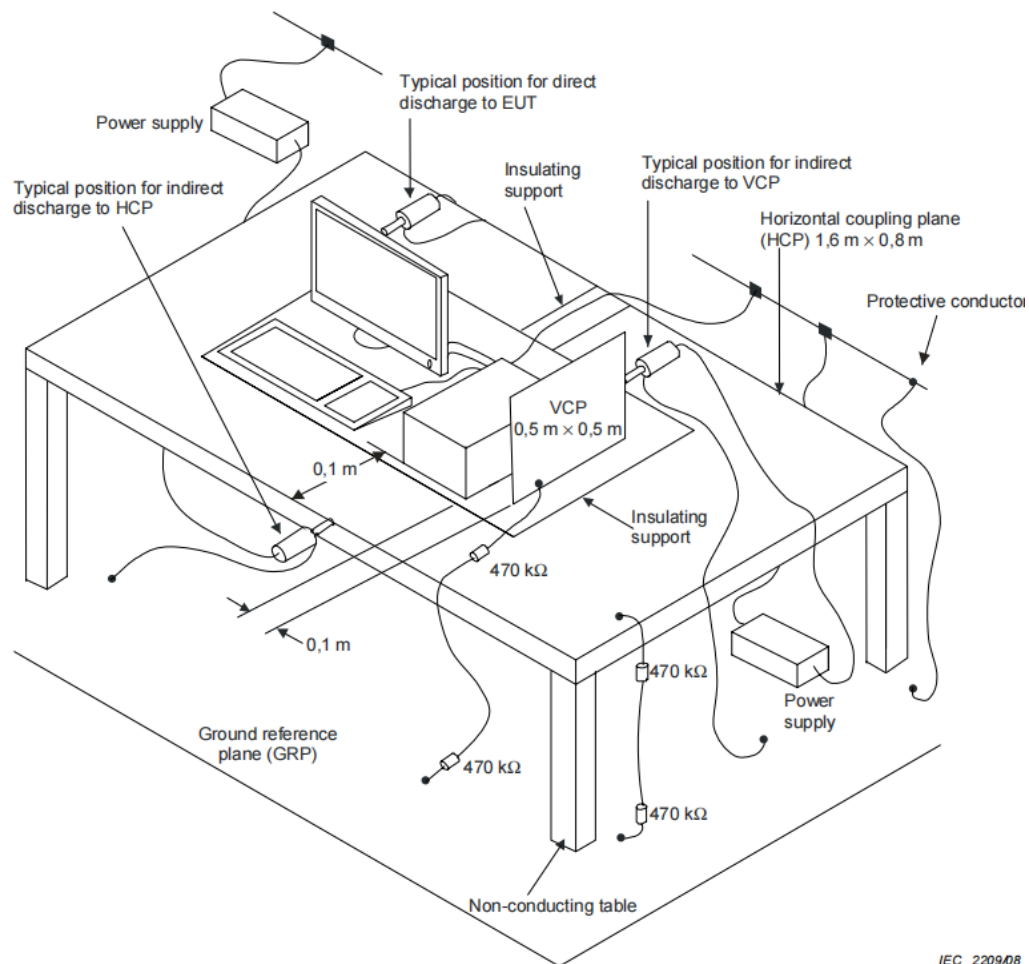
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9. Measurement of Electrostatic discharge

9.1. Requirements

Port	Enclosure
Basic Standard	IEC 61000-4-2
Test Level	±8.0 kV (Air Discharge) ±4.0 kV (Contact Discharge) ±4.0 kV (Indirect Discharge)
Required Performance Criterion	B
Time Between Each Discharge	1 second
Number of Discharge for Each Applied Voltage	10

9.2. Block Diagram of Test Setup



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9.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E013	ESD Simulator	Schaffner	NSG 438	782	2025-11-03	2026-11-02

Measuring Software

Software No.	Software Name	Manufacturer	Details
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9.4. Configuration of the EUT and method of measurement

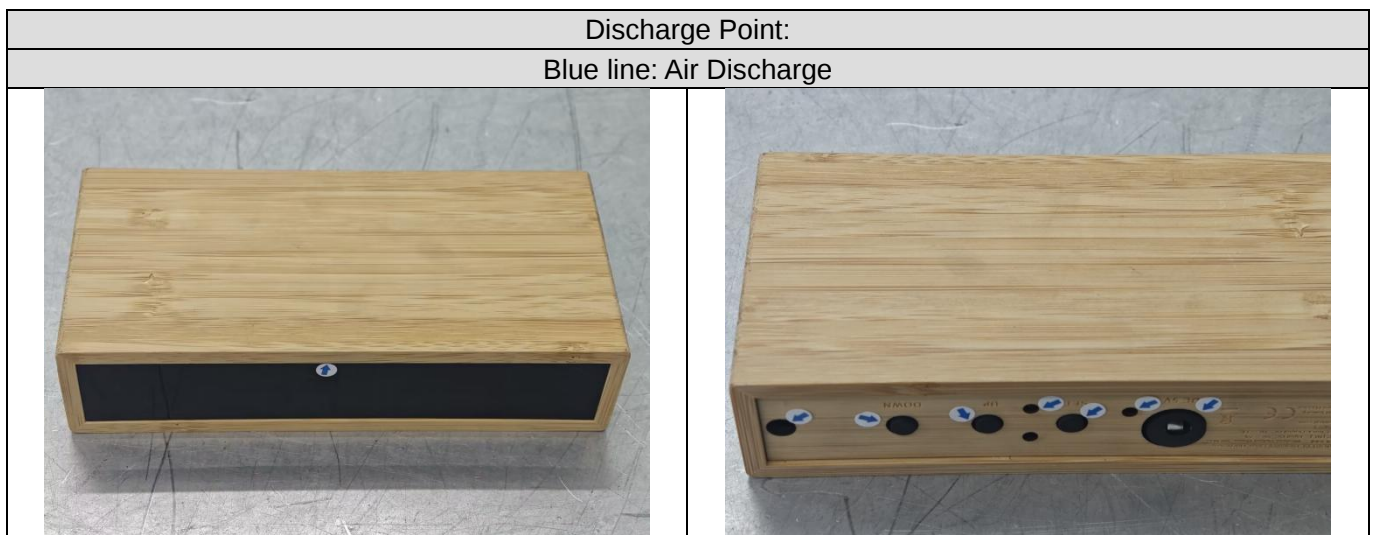
- Electrostatic discharges were applied only to those points and surfaces of the EUT that are accessible to users during normal operation.
- The test was performed with at least ten single discharges on the pre-selected points in the most sensitive polarity.
- The time interval between two successive single discharges was at least 1 second.
- The ESD generator was held perpendicularly to the surface to which the discharge was applied and the return cable was at least 0.2 meters from the EUT.
- Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.
- 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 completed.
- At least ten single discharges (in the most sensitive polarity) were applied to the Horizontal Coupling Plane at points on each side of the EUT. The ESD generator was positioned vertically at a distance of 0.1 meters from the EUT with the discharge electrode touching the HCP.
- At least ten single discharges (in the most sensitive polarity) were applied to the center of one vertical edge of the Vertical Coupling Plane in sufficiently different positions that the four faces of the EUT were completely illuminated. The VCP (dimensions 0.5m×0.5m) was placed vertically to and 0.1 meters from the EUT.
- The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance criterion defined in the report.

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9.5. Test Summary

Test Engineer	Carpe Lin	Temperature	22.3 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Test Mode(s)	Mode 1	Relative Humidity	55.2 %
Verdict	Pass		

Voltage	Coupling	Observation	Performance
±4kV	Contact Discharge	N/A	N/A
±2KV, ±4kV, ±8kV	Air Discharge	No degradation of performance	A
±4kV	Indirect Discharge HCP	No degradation of performance	A
±4kV	Indirect Discharge VCP	No degradation of performance	A



Note: No Contact discharge

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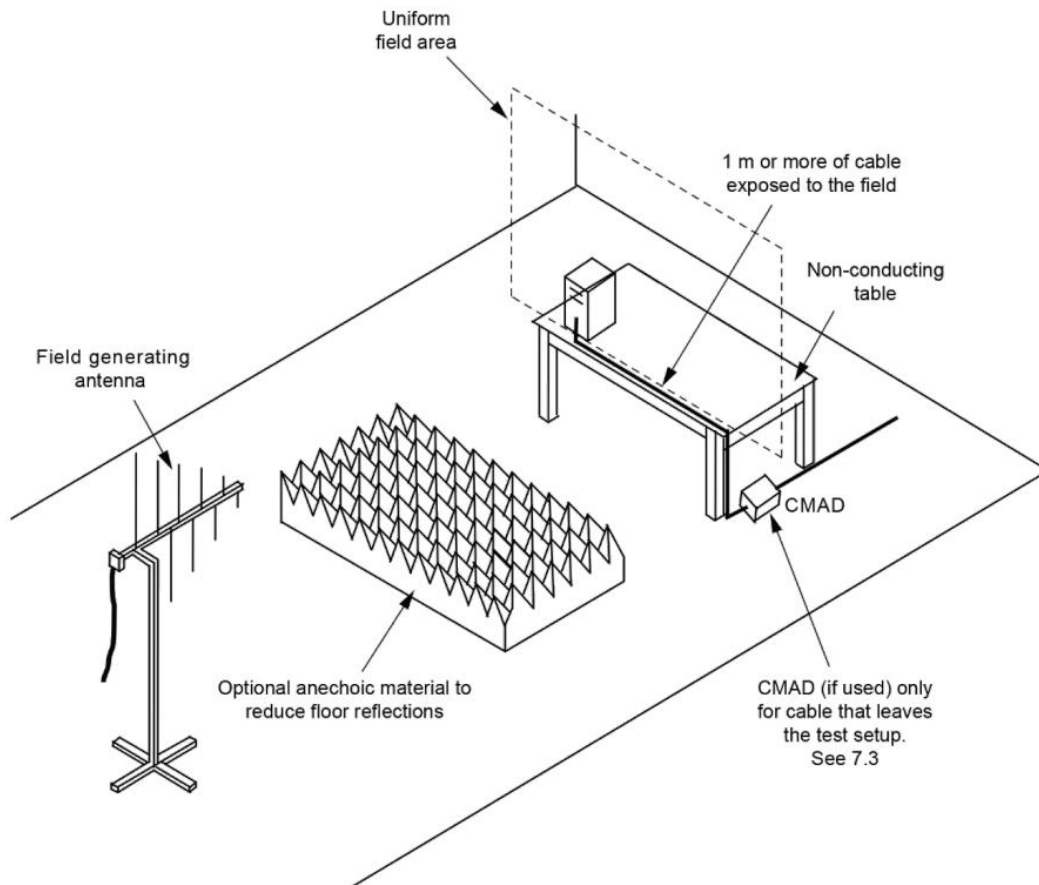
10. Measurement of Radio-Frequency Electromagnetic Field

10.1. Requirements

Port	Enclosure
Basic Standard	IEC 61000-4-3
Test Level	Swept test: 3V/m with 80% AM. 1kHz Modulation at 80 to 1000MHz Spot test (Frequency ($\pm 1\%$)): 3V/m with 80% AM. 1kHz Modulation at 1800, 2600, 3500, 5000MHz
Required Performance Criterion	A
Antenna polarization	Vertical and Horizontal
Step size increment ^a	1%
Dwell time ^b	≤ 5 seconds
Test Distance	3m
EUT position facing antenna	Front side, back side, left side and right side
Notes: a. Recognizing that a 1% step size is preferred, the frequency range can be swept incrementally with a step size not exceeding 4% of the previous frequency with a test level of twice the value of the specified test level in order to reduce the testing time for equipment requiring testing in multiple configurations and/or long cycle times. b. The dwell time at each frequency shall not be less than the time necessary for the EUT to be exercised and to be able to respond. However, the dwell time shall not exceed 5 seconds at each of the frequencies during the scan. The time to exercise the EUT is not interpreted as a total time of a program or a cycle but related to the reaction time in case of failure of the EUT.	

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10.2. Block Diagram of Test Setup



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10.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E115	Signal Generator	Aglient	N5182A	MY49060745	2026-01-13	2027-01-12
AGC-EM-E041	Directional Couple	Werlatonee	C6026-10	99482	2026-01-13	2028-01-12
AGC-EM-E040	Directional Couple	Werlatonee	C5571-10	99463	2026-01-13	2028-01-12
AGC-EM-E035	Power Probe	R&S	URV5-Z4	100124	2025-03-24	2027-03-23
AGC-EM-E005	Power Meter	R&S	NRVD	8323781027	2025-03-24	2027-03-23
AGC-EM-E016	Power Amplifier	KALMUS	7100LC	04-02/17-06-001	2025-07-18	2026-07-17
AGC-EM-E160	Power Amplifier	TESEQ	CBA3G-100	T43913	2025-05-21	2026-05-20
AGC-EM-E080	Power Amplifier	Rflight	NTWPA-2560100	17063183	2025-07-18	2026-07-17
AGC-EM-E029	Double-Ridged Waveguide Horn Antenna	ETS-LINDGREN	3117	00034609	2026-03-14	2027-03-13
AGC-EM-E028	Wideband Antenna	ETS-LINDGREN	3142C	00060447	N/A	N/A

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S006	TS+[JS35-RS]	Tonscend	For EMC Measurement, Version 2.0.1.8

10.4. Configuration of the EUT and method of measurement

- The Equipment Under Test (EUT) was positioned within the Uniform Field Area (UFA) on a supporting table, ensuring a 3-meter separation from the transmitting antenna. This setup aligns with the calibrated square area, guaranteeing field uniformity during testing. The supporting units were strategically located outside the UFA to avoid any potential interference. Nonetheless, the cables connected to the EUT were intentionally exposed to the precisely calibrated field within the UFA.
- Before testing, it will verify the proper operation of the test equipment/system. This verification will involve measuring the field strength at one point within the Uniform Field Area (UFA) at various frequencies.
- The test shall be performed according to the above requirements and block diagram which shall specify the test setup.
- The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance criterion defined in the report.

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10.5. Test Summary

Test Engineer	Carl Duan	Temperature	21.7 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Test Mode(s)	Mode 1	Relative Humidity	62.0 %
Verdict	Pass		

Swept test:

Frequency	Exposed Side	Field Strength (V/m)	Observation	Performance
80MHz to 1GHz	Front	3V/m (rms)	No degradation of performance	A
80MHz to 1GHz	Left	3V/m (rms)	No degradation of performance	A
80MHz to 1GHz	Rear	3V/m (rms)	No degradation of performance	A
80MHz to 1GHz	Right	3V/m (rms)	No degradation of performance	A

Spot test (Frequency (±1 %)):

Frequency	Exposed Side	Field Strength (V/m)	Observation	Performance
1800, 2600, 3500, 5000MHz	Front	3V/m (rms)	No degradation of performance	A
1800, 2600, 3500, 5000MHz	Left	3V/m (rms)	No degradation of performance	A
1800, 2600, 3500, 5000MHz	Rear	3V/m (rms)	No degradation of performance	A
1800, 2600, 3500, 5000MHz	Right	3V/m (rms)	No degradation of performance	A

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11. Measurement of Radio-frequency common mode

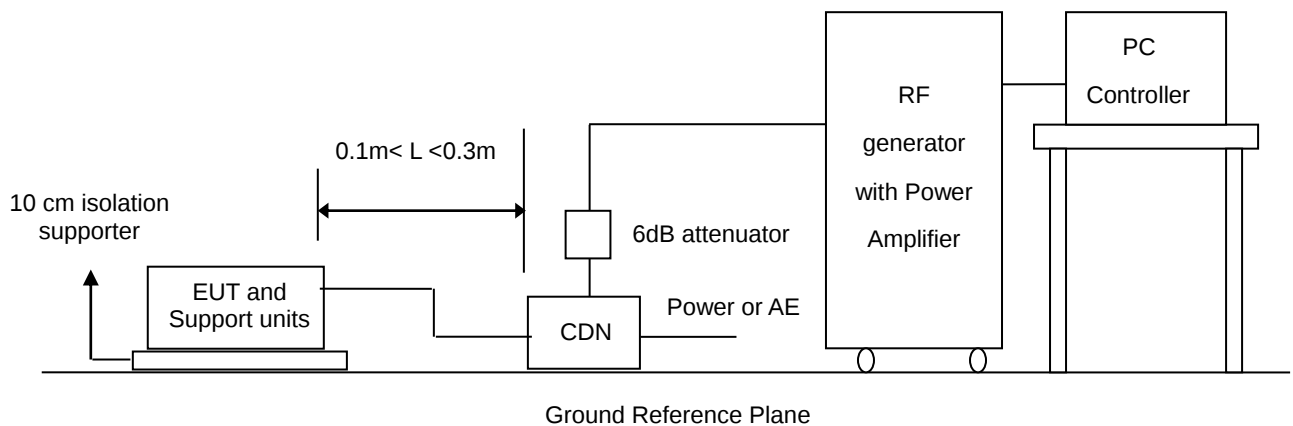
11.1. Requirements

Port	☒ AC mains power ports	☐ Analogue/digital data ports ^a	☐ DC network power ports ^a
Basic Standard	IEC 61000-4-6		
Required Performance Criterion	A		
Test Level	0.15 to 10 MHz, 3 V RMS (unmodulated), 80 % AM (1 kHz) 10 to 30 MHz, 3 to 1 V RMS (unmodulated), 80 % AM (1 kHz) 30 to 80 MHz, 1 V RMS (unmodulated), 80 % AM (1 kHz)		
Step size increment ^b	1%		
Dwell time ^c	≤5 seconds		

Notes:

- Applicable only to ports which, according to the manufacturer's specification, supports cable lengths greater than 3 m.
- Recognizing that a 1% step size is preferred, the frequency range can be swept incrementally with a step size not exceeding 4% of the previous frequency with a test level of twice the value of the specified test level in order to reduce the testing time for equipment requiring testing in multiple configurations and/or long cycle times.
- The dwell time at each frequency shall not be less than the time necessary for the EUT to be exercised and to be able to respond. However, the dwell time shall not exceed 5 seconds at each of the frequencies during the scan. The time to exercise the EUT is not interpreted as a total time of a program or a cycle but related to the reaction time in case of failure of the EUT.

11.2. Block Diagram of Test Setup



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11.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E017	Power Amplifier	AR	75A250	18464	2025-07-18	2026-07-17
AGC-EM-E161	CDN	3C TEST	CDN M2M3	ES064002624028	2025-09-05	2026-09-04
AGC-EM-A048	Attenuator	ZHINAN	E-002	N/A	2024-07-24	2026-07-23
AGC-EM-E035	Power Probe	R&S	URV5-Z4	100124	2025-03-24	2027-03-23
AGC-EM-E005	Power Meter	R&S	NRVD	8323781027	2025-03-24	2027-03-23
AGC-EM-E040	Directional Coupler	Werlatone	C5571-10	99463	2026-01-13	2028-01-12
AGC-EM-E115	Signal Generator	Aglient	N5182A	MY49060745	2026-01-13	2027-01-12

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S007	TS+[JS35-CS]	Tonscend	For EMC measurement, version 2.0.1.7

11.4. Configuration of the EUT and method of measurement

- The Equipment Under Test (EUT) shall be tested within its intended operating and climatic conditions.
- The test generator and the coupling/decoupling network shall be placed directly on, and bonded to, the ground reference plane. The test shall be performed with the test generator connected to each of the coupling devices (CDN, EM clamp, current clamp) in turn. All other cables not under test shall either be disconnected (when functionally allowed) or provided with decoupling networks or unterminated CDNs only.
- The test shall be performed according to the above requirements and block diagram which shall specify the test setup.
- The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance criterion defined in the report.

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11.5. Test Summary

Test Engineer	Carpe Lin	Temperature	20.9 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Test Mode(s)	Mode 1	Relative Humidity	54.1 %
Verdict	Pass		

Test port	Test Level	Coupling method	Observation	Performance
AC Mains Input	0.15 to 10 MHz: 3 V	CDN	No degradation of performance	A
	10 to 30 MHz: 3 to 1 V			
	30 to 80 MHz, 1 V			

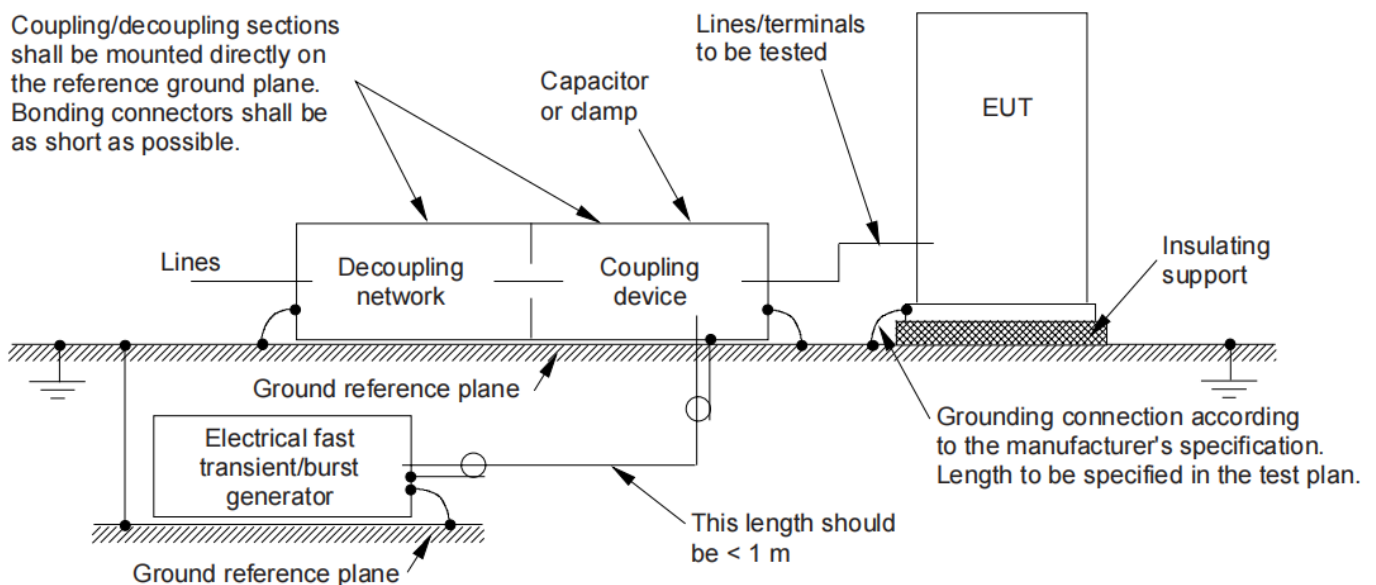
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12. Measurement of Fast Transients

12.1. Requirements

Port	☒ AC mains power ports	☐ Analogue/digital data ports ^a	☐ DC network power ports ^a
Basic Standard	IEC 61000-4-4		
Required Performance Criterion	B		
Test Level	1 kV (peak)	0.5 kV (peak)	0.5 kV (peak)
Polarity	Positive/Negative		
Impulse Frequency	5kHz		
Impulse wave shape	5/50ns		
Burst Duration	15ms		
Burst Period	300ms		
Notes:			
a. Applicable only to ports which, according to the manufacturer's specification, supports cable lengths greater than 3 m.			

12.2. Block Diagram of Test Setup



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12.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E008	EFT/Surge/DIPS Generator	Schaffner	Modula 6150	34437	2025-05-08	2026-05-07

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S009	WinModula	Schaffner	For EFT/Surge/Dips Measurement, Version 2.31 c

12.4. Configuration of the EUT and method of measurement

- The Equipment Under Test (EUT), whether stationary floor-mounted or table top, and equipment designed to be mounted in other configurations, shall be placed on a ground reference plane and shall be insulated from it by an insulating support 0,1 m $\pm$ 0,01 m thick.
- The test generator and the coupling/decoupling network shall be placed directly on, and bonded to, the ground reference plane.
- The EUT shall be arranged and connected to satisfy its functional requirements, according to the equipment installation specifications. The minimum distance between the EUT and all other conductive structures (e.g. the walls of a shielded room), except the ground reference plane shall be more than 0,5 m. All cables to the EUT shall be placed on the insulation support 0,1 m above the ground reference plane. Cables not subject to electrical fast transients shall be routed as far as possible from the cable under test to minimize the coupling between the cables.
- The test voltages shall be coupled to all of the EUT ports including those between two units of equipment involved in the test, unless the length of the interconnecting cable makes it impossible to test.
- Either a direct coupling network or a capacitive clamp shall be used for the application of the test voltages.
- The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance criterion defined in the report.

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12.5. Test Summary

Test Engineer	Carpe Lin	Temperature	21.2 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Test Mode(s)	Mode 1	Relative Humidity	53.7 %
Verdict	Pass		

Inject Line	Voltage(kV)	Inject Method	Observation	Performance
AC Lines	0.5, 1	Direct	No degradation of performance	A

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13. Measurement of Surges

13.1. Requirements

Port	☒ AC mains power ports ^a	☐ Analogue/digital data ports ^{b, c, d and e}		☐ DC network power ports ^f
		☐ Unshielded symmetrical	☐ Coaxial or shielded	
Basic Standard	IEC 61000-4-5			
Required Performance Criterion	B	C	B	B
Test Level	Line to line: 1 kV; Line to ground: 2 kV	primary protection is intended: 1 and 4 kV (line to ground); primary protection is not intended: 1 kV (line to ground)	shield to ground: 0.5 kV	Line to ground: 0.5 kV
Tr/Th	1.2/50 (8/20) μ s	10/700 (5/320) μ s	1.2/50 (8/20) μ s	1.2/50 (8/20) μ s
Number of impulses	Five positive and five negative impulses			
Time between successive impulses	1 min			

Notes:

- The number of pulses applied shall be as follows:
 - Five positive pulses line-to-neutral at 90° phase.
 - Five negative pulses line-to-neutral at 270° phase.

The following additional pulses are required only if the EUT has an earth connection or if the EUT is earthed via any AE:

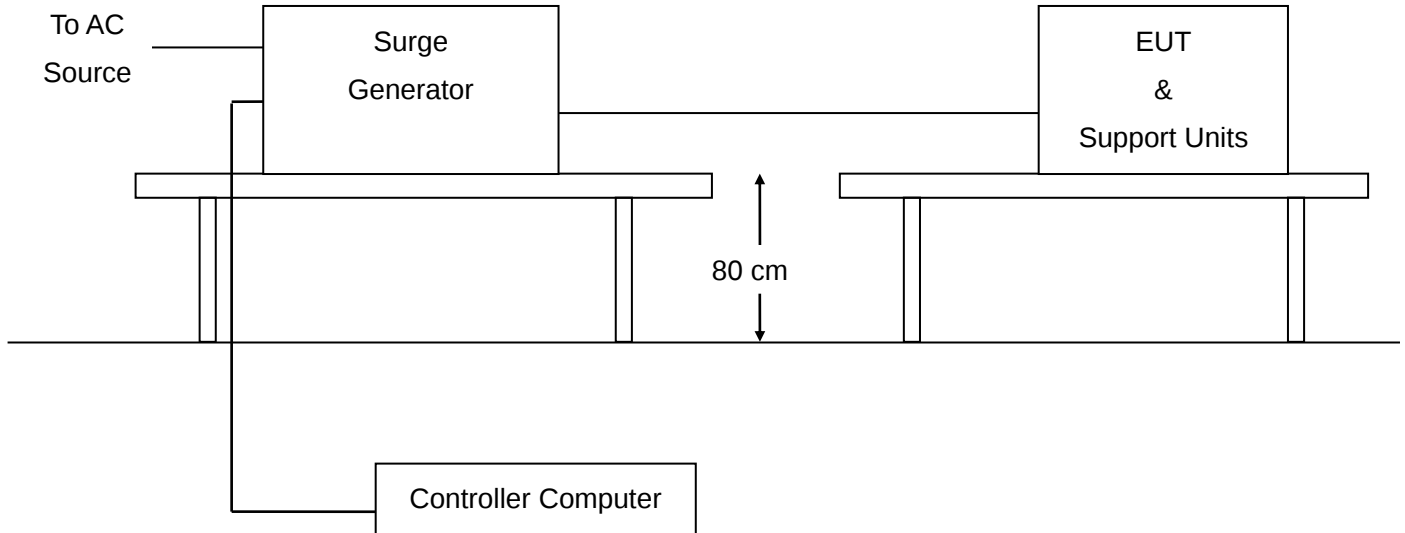
 - Five positive pulses line-to-earth at 90° phase.
 - Five negative pulses line-to-earth at 270° phase.
 - Five negative pulses neutral-to-earth at 90° phase.
 - Five positive pulses neutral-to-earth at 270° phase.
- Applicable only to ports which, according to the manufacturer's specification, supports cable lengths greater than 3 m.
- Surges are applied with primary protection fitted. Where possible, use the actual primary protector intended to be used in the installation.
- Where the surge coupling network for the 10/700 (5/320) μ s waveform affects the functioning of high speed data ports, the test shall be carried out using a 1.2/50 (8/20) μ s waveform and appropriate coupling network.
- Surges are applicable to ports which satisfy all of the following conditions:
 - May connect directly to cables that leave the building structure.
 - Defined as an antenna port, a wired network port, or a broadcast receiver tuner port.

Typical ports covered include xDSL, PSTN, CATV, antenna and similar. Excluded ports are LAN and similar.

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- f. Applicable only to ports which, according to the manufacturer's specification, may connect directly to outdoor cables.

13.2. Block Diagram of Test Setup



13.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E008	EFT/Surge/DIPS Generator	Schaffner	Modula 6150	34437	2025-05-08	2026-05-07

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S009	WinModula	Schaffner	For EFT/Surge/Dips Measurement, Version 2.31 c

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13.4. Configuration of the EUT and method of measurement

- Verification shall be performed. It is preferable to perform the verification prior to the test.
- The test shall be performed according to the above requirements and block diagram which shall specify the test setup.
- When testing line-to-ground, the lines are tested individually in sequence, if there is no other specification.
- The test procedure shall also consider the non-linear current-voltage characteristics of the equipment under test. Therefore, all lower test levels including the selected test level shall be tested.
- The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance criterion defined in the report.

13.5. Test Summary

Test Engineer	Carpe Lin	Temperature	21.2 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Test Mode(s)	Mode 1	Relative Humidity	53.7 %
Verdict	Pass		

Test port	Coupling	Voltage(kV)	Observation	Performance
AC Mains Input	line-to-neutral	0.5, 1	No degradation of performance	A

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14. Measurement of Voltage dips and interruptions

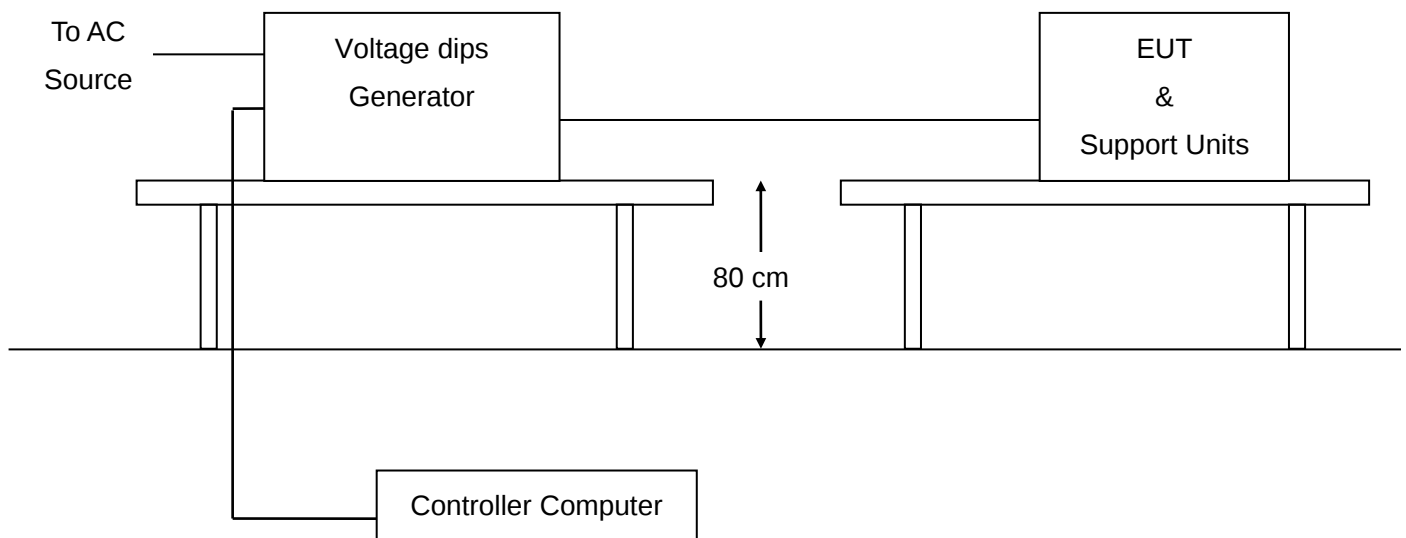
14.1. Requirements

Port	AC mains power ports		
Basic Standard	IEC 61000-4-11		
Required Performance Criterion	B	B	C
Residual voltage ^a	< 5 %	70 %	< 5 %
Number of cycles ^b	0.5	25 for 50 Hz 30 for 60 Hz	250 for 50 Hz 300 for 60 Hz
Variation/dip repetition	Sequence of three dips/interruptions with an interval of 10 seconds between each test		

Notes:

- Changes to occur at 0 degree crossover point of the voltage waveform. If the EUT does not demonstrate compliance when tested with 0 degree switching, the test shall be repeated with the switching occurring at both 90 degrees and 270 degrees. If the EUT satisfies these alternative requirements, then it fulfils the requirements.
- Apply at only one supply frequency of the EUT.

14.2. Block Diagram of Test Setup



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14.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-E008	EFT/Surge/DIPS Generator	Schaffner	Modula 6150	34437	2025-05-08	2026-05-07

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S009	WinModula	Schaffner	For EFT/Surge/Dips Measurement, Version 2.31 c

14.4. Configuration of the EUT and method of measurement

- The test shall be performed according to the above requirements and block diagram which shall specify the test setup.
- The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance criterion defined in the report.

14.5. Test Summary

Test Engineer	Carpe Lin	Temperature	21.2 °C
Test Date	2026-04-21	Air Pressure	985 Mbar
Test Mode(s)	Mode 1	Relative Humidity	53.7 %
Verdict	Pass		

Test port	Residual voltage (%)	Cycles	Observation	Performance
AC Mains Input	< 5	0.5	No degradation of performance	A
	70	25	No degradation of performance	A
	< 5	250	EUT power cycled	B

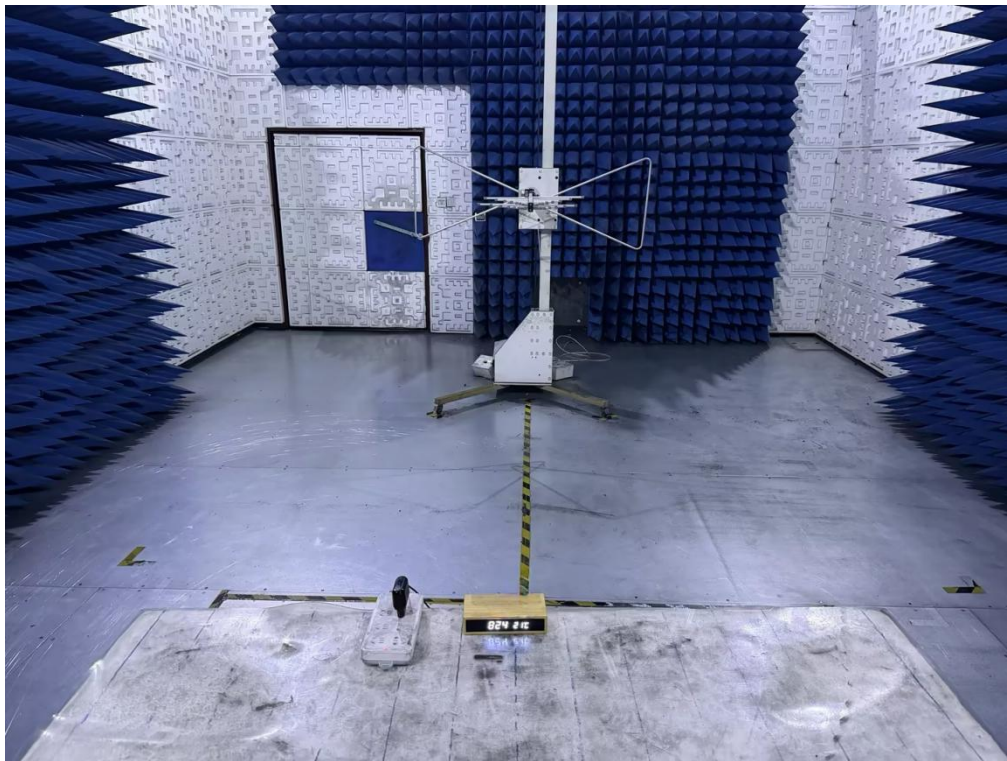
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15. Photographs of Test Setup



Conducted emissions from the AC mains power ports



Radiated emissions at frequencies up to 1 GHz

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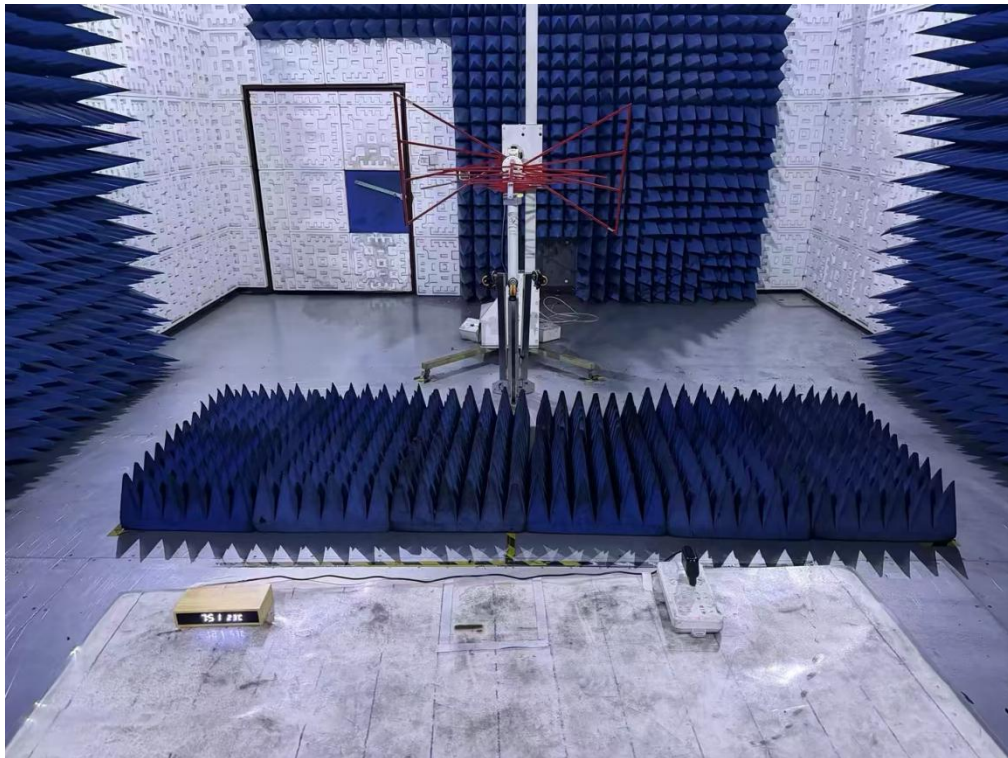
Harmonic current emissions & Voltage fluctuations and flicker



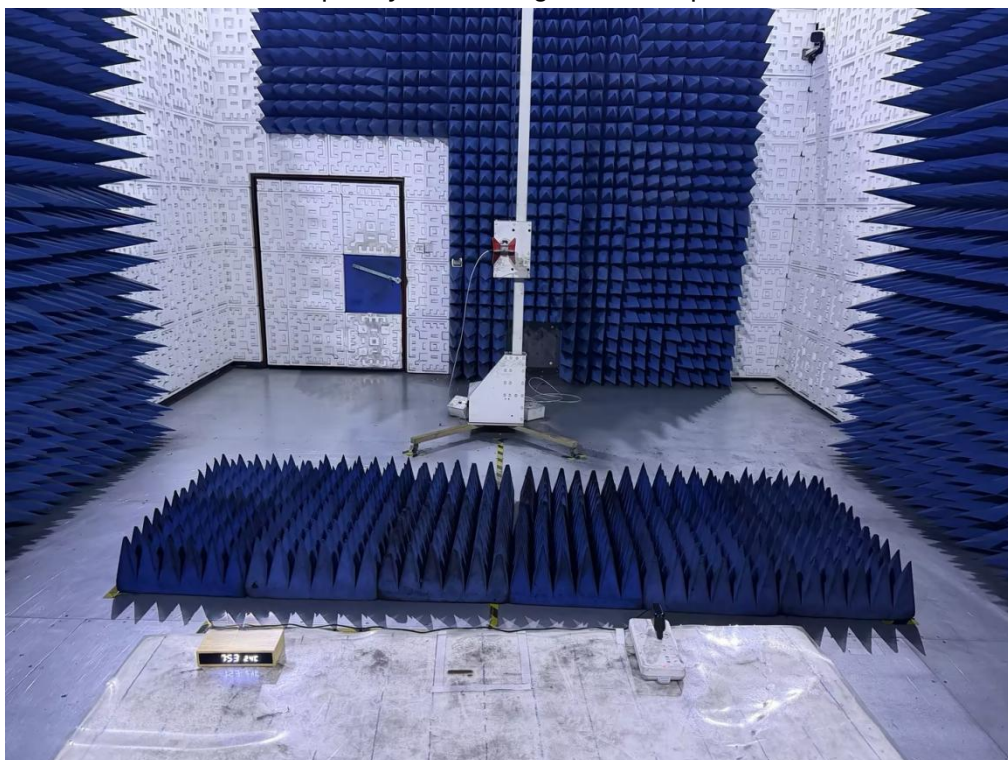
Electrostatic discharge

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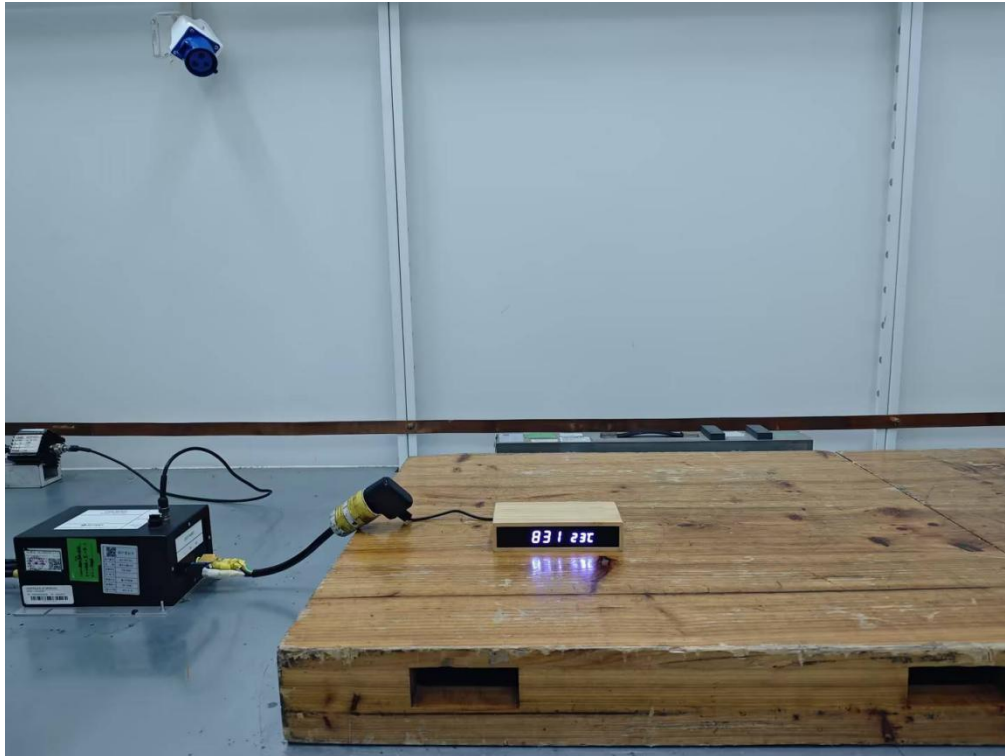


Radio-frequency electromagnetic field up to 1 GHz



Radio-frequency electromagnetic field above 1 GHz

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Radio-frequency common mode at the AC mains power ports

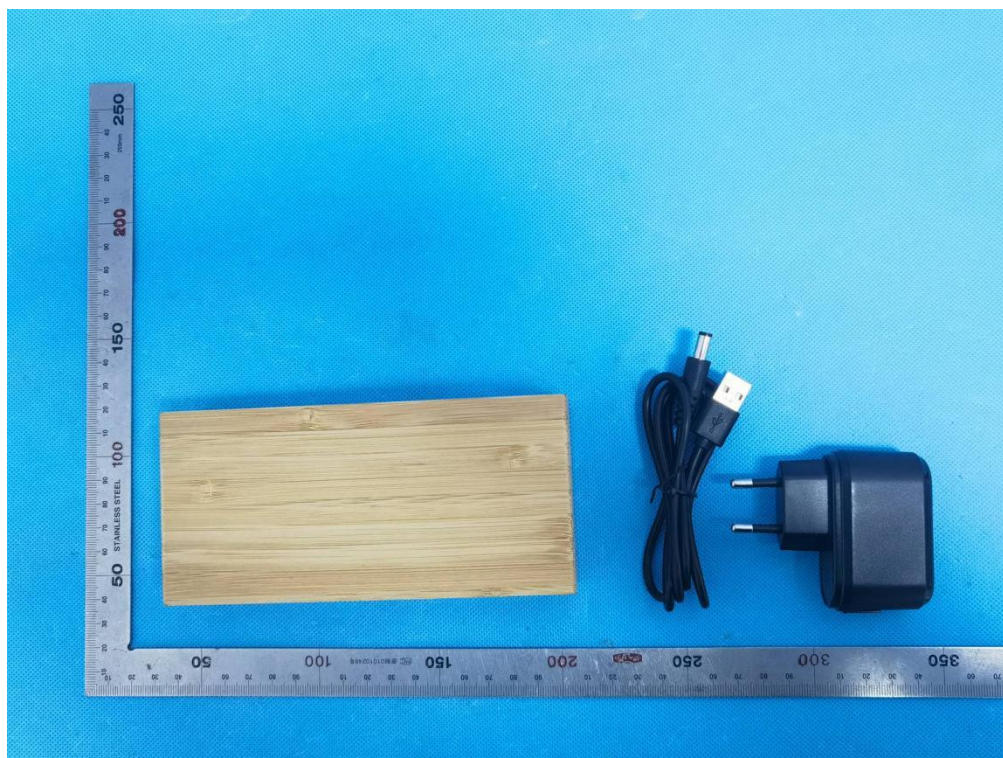


Fast transients/Surges/ Voltage dips at the AC mains power ports

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16. Photographs of EUT



All view of EUT



Top view of EUT

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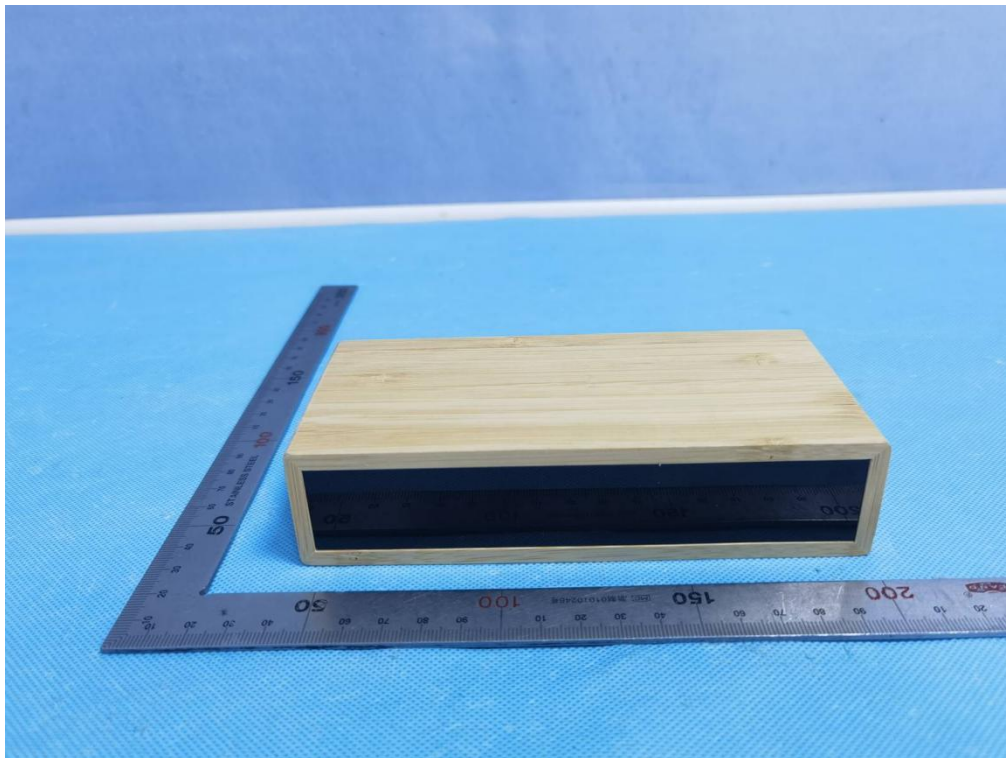
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Bottom view of EUT



Front view of EUT

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Back view of EUT

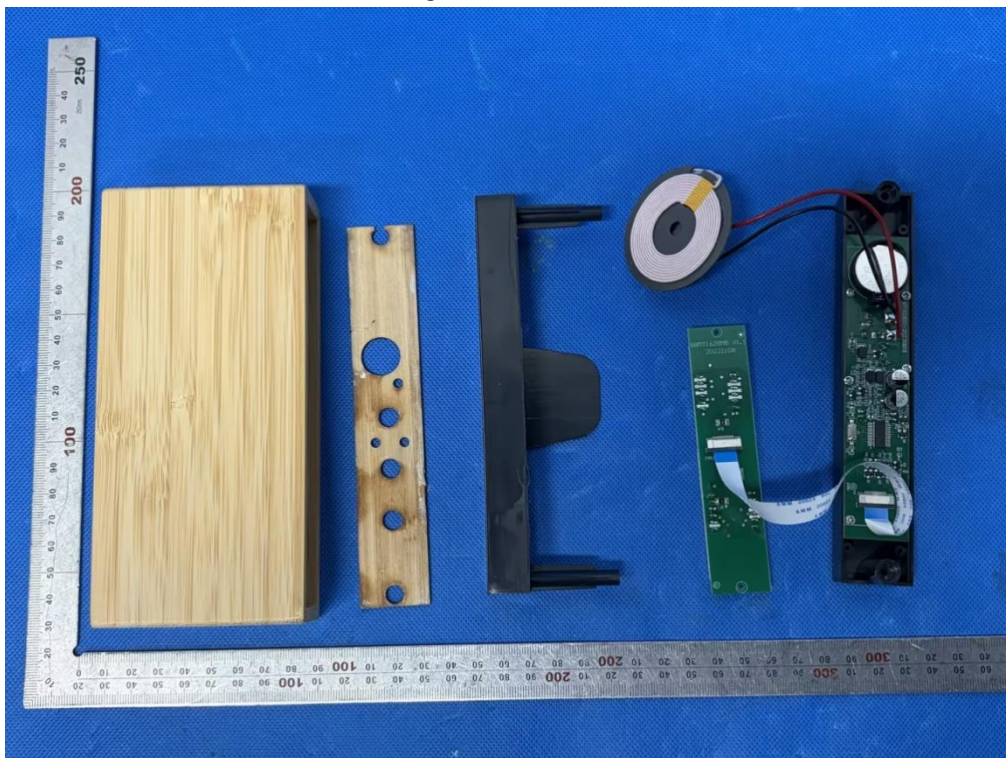


Left view of EUT

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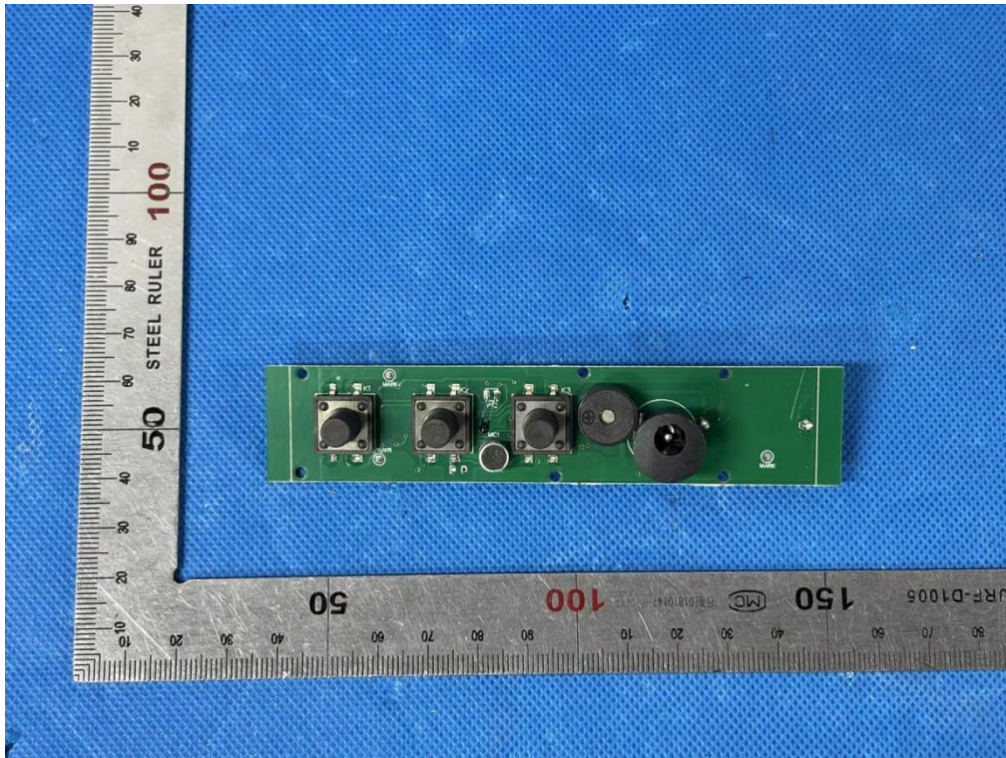


Right view of EUT

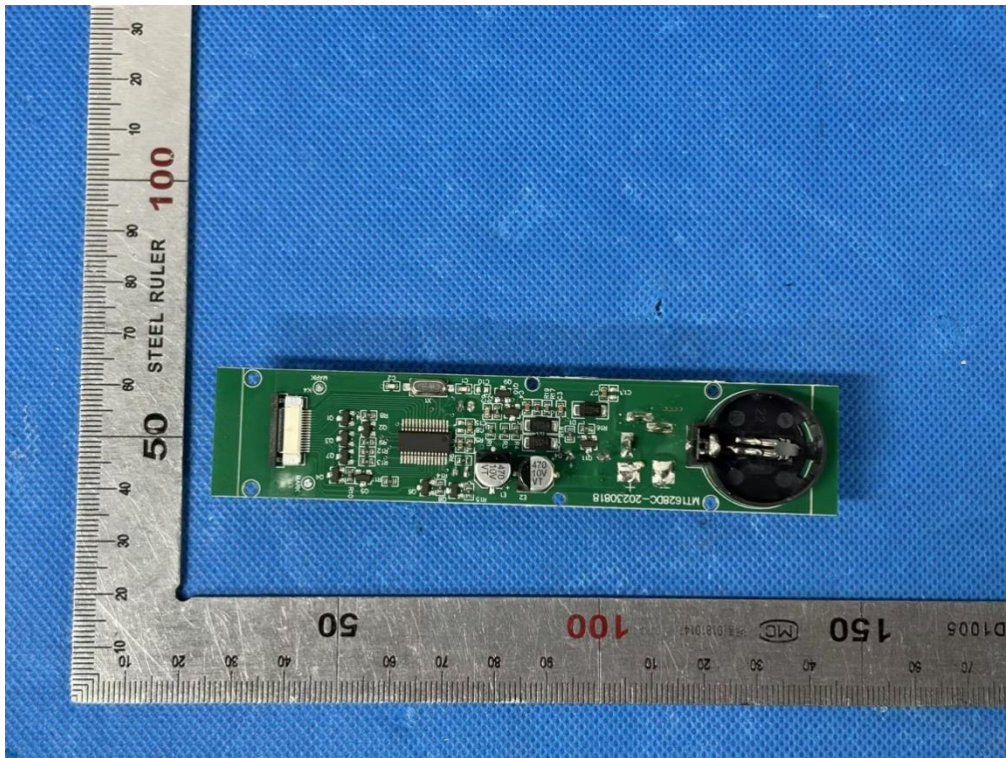


Open view of EUT

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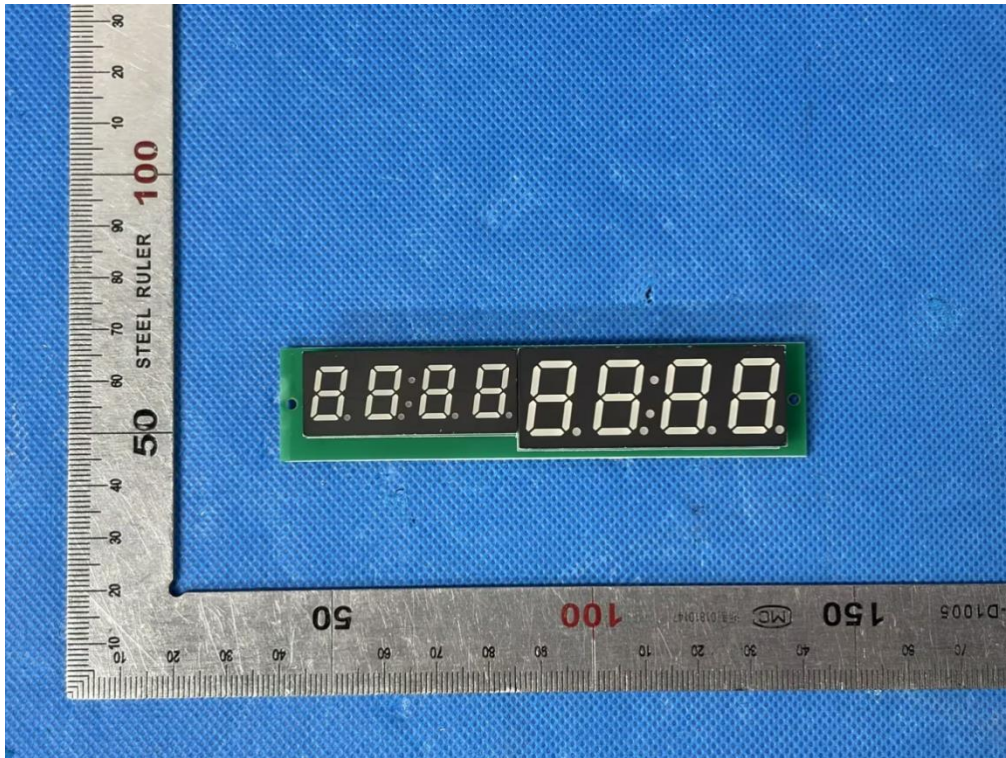
Internal view-1 of EUT



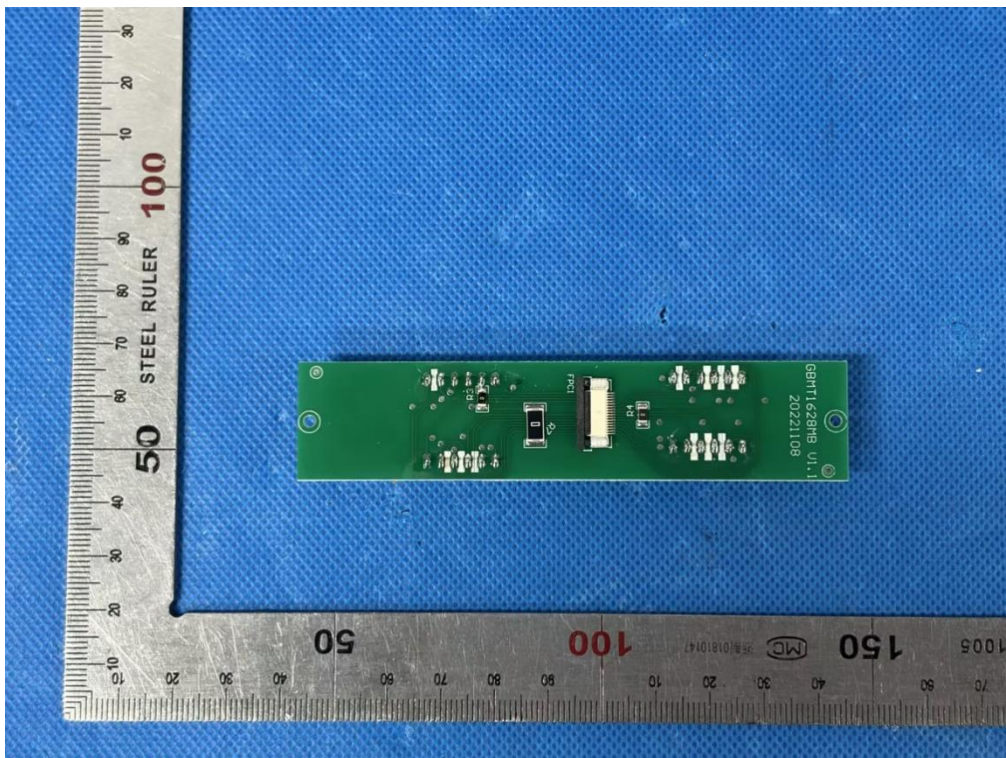
Internal view-2 of EUT

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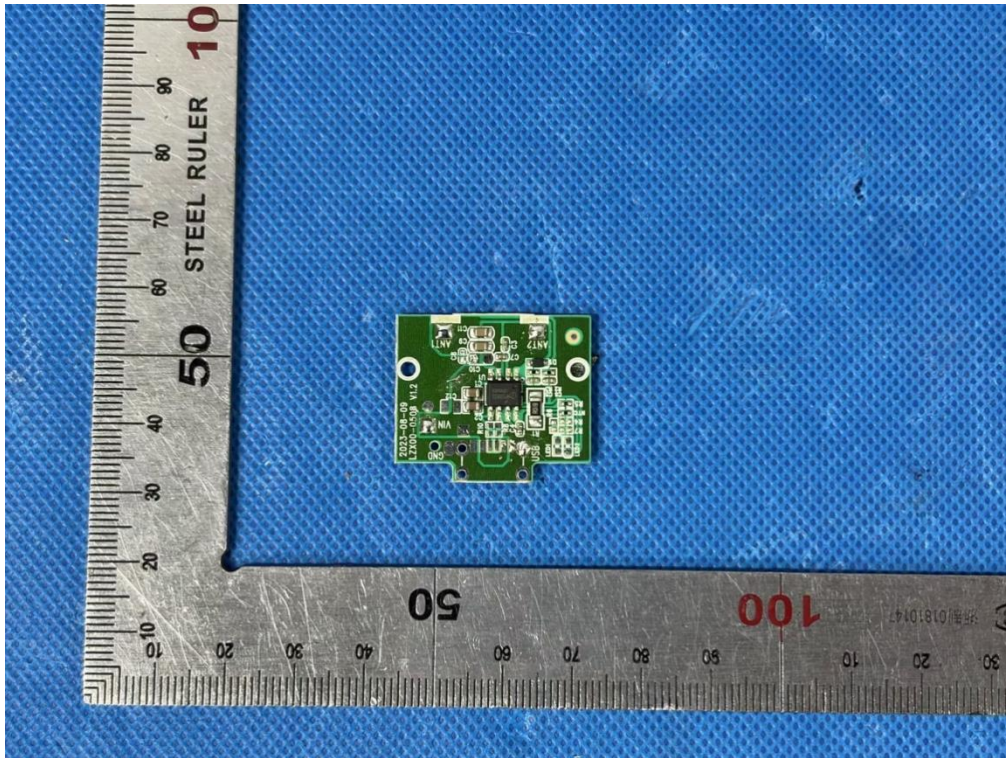


Internal view-3 of EUT

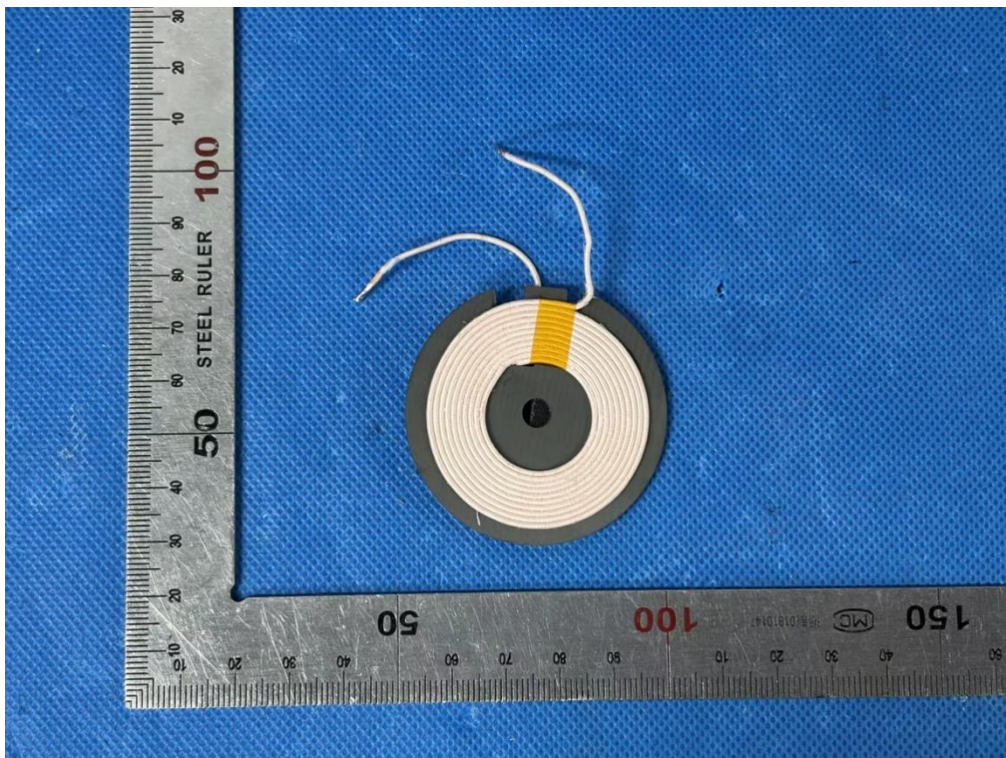


Internal view-4 of EUT

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Internal view-5 of EUT



Internal view-6 of EUT

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Adapter view of EUT

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

----End of Report----

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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:	AC/DC ADAPTOR
Trade Mark:	N/A
Model :	MO6139, MO9456, MO9588
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:	February 19, 2025 to February 26, 2025
Date of Report :	February 26, 2025
Report No.:	SIT250219162301ER

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1 TEST CERTIFICATION

Product: AC/DC ADAPTOR

Model: MO6139, MO9456, MO9588

Applicant: Mid Ocean Brands B.V.

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

Manufacturer: 114628

Trade Mark: N/A

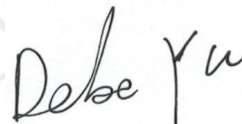
Tested: February 19, 2025 to February 26, 2025

Test Voltage: AC 230V 50Hz

Applicable Standards: EN 55032:2015+A1:2020+A11:2020
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A2:2021
EN 55035:2017+A11:2020

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 :



Manager

2 TEST RESULT SUMMARY

EMISSION			
Standard	Item	Result	Remarks
EN 55032:2015+A1:2020+A11:2020	Conducted (Main Port)	PASS	Meet Class B limit
	Radiated	PASS	Meet Class B limit
EN IEC 61000-3-2:2019+A1:2021	Harmonic current emissions	PASS	Meet
EN 61000-3-3:2013+A2:2021	Voltage fluctuations & flicker	PASS	Meet

IMMUNITY 【EN 55035:2017+A11:2020】			
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 A
EN 61000-4-4:2012	EFT	PASS	Meets the requirements of Performance Criterion B
EN 61000-4-5:2014+A1:2017	Surge	PASS	Meets the requirements of Performance Criterion B
EN 61000-4-6:2014+AC:2015	CS	PASS	Meets the requirements of Performance Criterion A
EN 61000-4-8: 2010	PFMF	PASS	Meets the requirements of Performance Criterion A
EN IEC 61000-4-11:2020	Voltage dips & voltage variations	PASS	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	AC/DC ADAPTOR
Model	MO6139
Trade Mark	N/A
Applicant	Mid Ocean Brands B.V.
Housing material	Plastic & Metal
EUT Type	☒ Engineering Sample. ☐ Product Sample, ☐ Mass Product Sample.
Serial Number	N/A
Power Rating	Input: 100-240V~, 50/60Hz, 0.45A Max Output: 5V---2A

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		
Mode Emission	Conducted Emission	Mode 1 : Normal working
	Radiated Emission	Mode 1 : Normal working

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

The Worst Test Mode		
Mode Emission	Conducted Emission	Mode 1: Normal working
	Radiated Emission	Mode 1: Normal working

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: AC/DC ADAPTOR)

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 22. 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, www.sit-cert.com

USA	FCC TIMCO
Germany	TUV EMCC
Japan	VCCI
Canada	INDUSTRY CANADA

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	9kHz~30MHz		+/- 3.59dB
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)	Class B (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

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 a class A/B digital 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 (743)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	100005	06/24/2025
LISN	AFJ	LS16	16010222119	06/29/2025
LISN(EUT)	Mestec	AN3016	04/10040	06/28/2025

- 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 EN55032 (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 EN55032.

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.

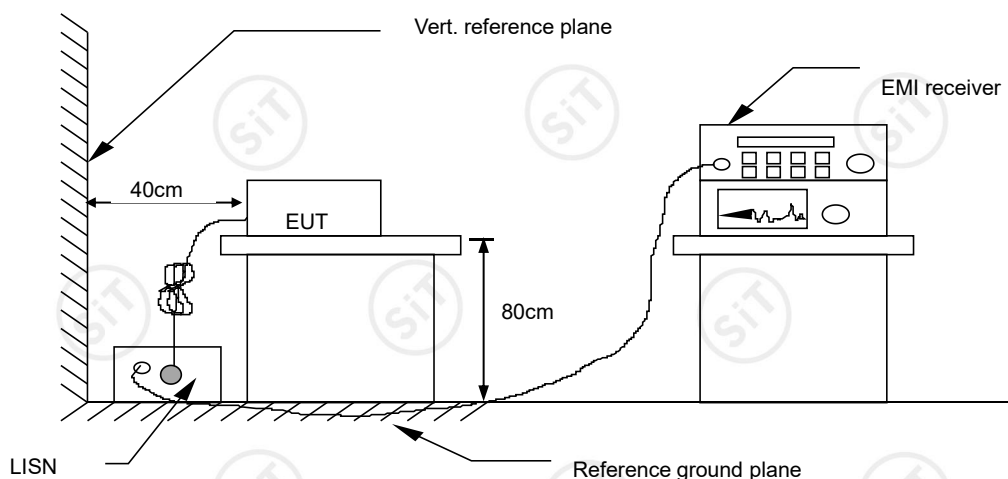
Procedure of Final Test

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.	MO6139	Pressure	1010hPa
Environmental Conditions	26°C, 60% RH	Test Mode	Normal working
Detector Function	Peak / Quasi-peak/AV	Test Result	PASS
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 factor + Cable loss

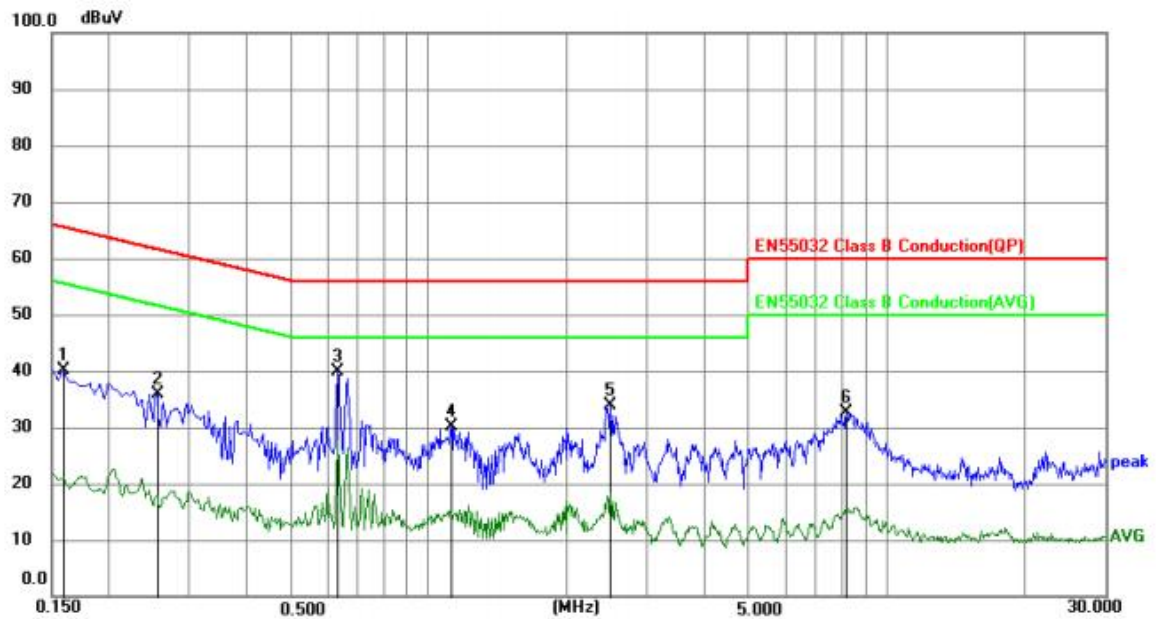
Level (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

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

Q.P.=Quasi-Peak

Conducted Emission Measurement



Site LAB

Phase: L1

Temperature: (C)

Limit: EN55032 Class B Conduction(QP)

Power:

Humidity: %RH

EUT: AC/DC ADAPTOR

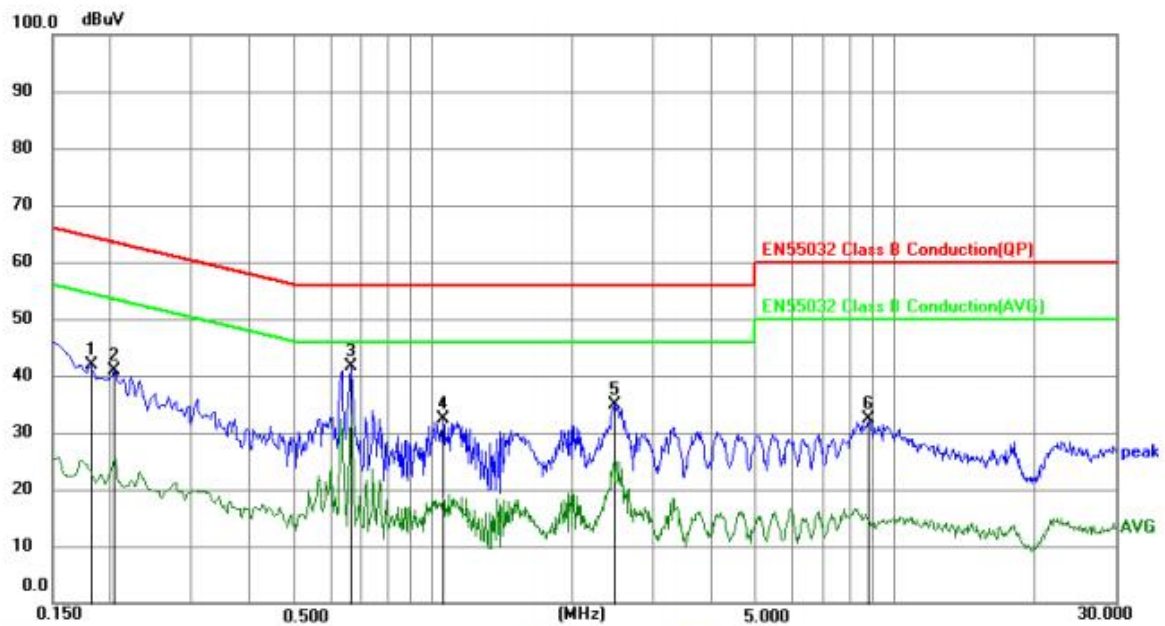
M/N: MO6139

Mode:

Note:

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1590	30.05	10.08	40.13	65.52	-25.39	peak	
2		0.2535	25.58	10.23	35.81	61.64	-25.83	peak	
3	*	0.6315	29.59	10.22	39.81	56.00	-16.19	peak	
4		1.1220	19.98	10.19	30.17	56.00	-25.83	peak	
5		2.4945	23.61	10.19	33.80	56.00	-22.20	peak	
6		8.1645	22.50	10.10	32.60	60.00	-27.40	peak	

Conducted Emission Measurement



Site LAB

Phase: N

Temperature: (C)

Limit: EN55032 Class B Conduction(QP)

Power:

Humidity: %RH

EUT: AC/DC ADAPTOR

M/N: MO6139

Mode:

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz		dB	dBuV	dBuV	dB	Detector	Comment
1		0.1815	31.58	10.22	41.80	64.42	-22.62	peak	
2		0.2040	30.58	10.20	40.78	63.45	-22.67	peak	
3	*	0.6630	31.39	10.19	41.58	56.00	-14.42	peak	
4		1.0500	22.12	10.20	32.32	56.00	-23.68	peak	
5		2.4630	24.74	10.23	34.97	56.00	-21.03	peak	
6		8.7630	22.07	10.21	32.28	60.00	-27.72	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	06/24/2025
Spectrum Analyzer	R&S	FSU	100114	06/14/2025
Pre Amplifier	H.P.	HP8447E	2945A02715	06/24/2025
Bilog Antenna	SUNOL Sciences	JB3	A021907	07/06/2025
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	06/19/2025
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 EN55032.

All I/O cables were positioned to simulate typical usage as per EN55032.

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

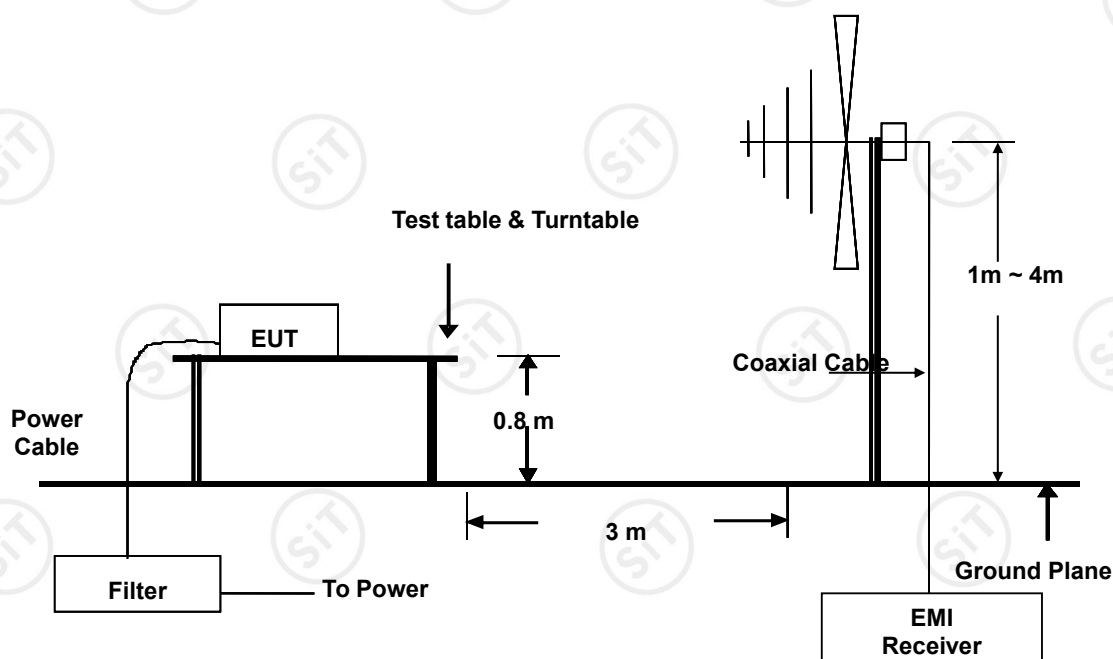
EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

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.	MO6139	Test Mode	Normal working
Environmental Conditions	26°C, 60% RH	6dB Bandwidth	120 KHz
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: **Vertical**

Temperature:

Limit: EN 55032 CLASS B

Power:

Humidity: %

EUT: AC/DC ADAPTOR

Distance: 3m

M/N: MO6139

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		38.2120	41.89	-11.54	30.35	40.00	-9.65	peak		
2		46.9948	40.14	-11.72	28.42	40.00	-11.58	peak		
3		61.1316	39.67	-12.73	26.94	40.00	-13.06	peak		
4	*	71.8320	45.11	-14.31	30.80	40.00	-9.20	peak		
5		84.9995	41.72	-15.79	25.93	40.00	-14.07	peak		
6		172.5988	37.82	-11.19	26.63	40.00	-13.37	peak		

Radiated Emission Measurement



Site LAB

Limit: EN 55032 CLASS B

EUT: AC/DC ADAPTOR

M/N: MO6139

Mode:

Note:

Polarization: **Horizontal**

Temperature:

Power:

Humidity: %

Distance: 3m

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		36.5090	30.59	-11.56	19.03	40.00	-20.97	peak			
2		80.0806	40.31	-15.82	24.49	40.00	-15.51	peak			
3	*	87.1115	41.16	-15.64	25.52	40.00	-14.48	peak			
4		121.9753	34.00	-12.54	21.46	40.00	-18.54	peak			
5		196.5098	36.84	-13.86	22.98	40.00	-17.02	peak			
6		252.9482	37.05	-12.21	24.84	47.00	-22.16	peak			

8 IMMUNITY TEST

8.1. GENERAL DESCRIPTION

Product Standard	EN 55035:2017+A11:2020	
	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 IEC 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test – RS: 80 ~1000 MHz, 3V/m, 80% AM(1kHz), Performance Criterion A
	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 ~ 80 MHz, 3Vrms, 80% AM, 1kHz, Performance Criterion A
	EN 61000-4-8	Power frequency magnetic field immunity test 50 Hz, 1A/m Performance Criterion A
	EN 61000-4-11	Voltage Dips: i) >95% reduction for 0.5 period, Performance Criterion B ii) 30% reduction for 25 period, Performance Criterion C Voltage Interruptions: >95% reduction for 250 period Performance Criterion C

8.2. GENERAL PERFORMANCE CRITERIA DESCRIPTION

Criteria A:	The apparatus shell continues 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:	After test, the apparatus shell continues 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. 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.
Criteria C:	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. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

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 25 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	06/11/2025

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:

The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. One of the test points shall be subjected to at least 50 indirect discharges to the center of the front edge of the **Horizontal Coupling Plane (HCP)**. The remaining three test points shall each receive at least 50 direct contact discharges. If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second.

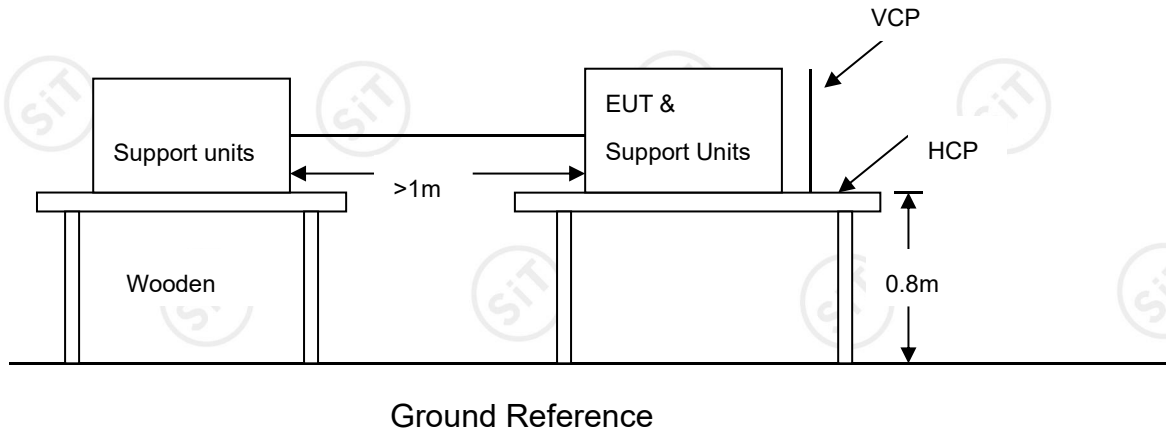
b) Air discharges at slots and apertures and insulating surfaces:

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
Button and Top 2Points		☒	☒	☐	B	Note ☐ 1 ☒ 2

Contact Discharge						
Test Points	Test Levels	Results				
		± 4 kV	Pass	Fail	Performance Criterion	Observation
HCP 2Points		☒	☒	☐	B	Note ☐ 1 ☒ 2
VCP 2Points		☒	☒	☐	B	Note ☐ 1 ☒ 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	06/19/2025
Power Amplifier	M2S	A00181-1000	9801-112	06/19/2025
Power Amplifier	M2S	AC8113/ 800-250A	9801-179	06/19/2025
Power Antenna	SCHAFFNER	CBL6140A	1204	06/19/2025

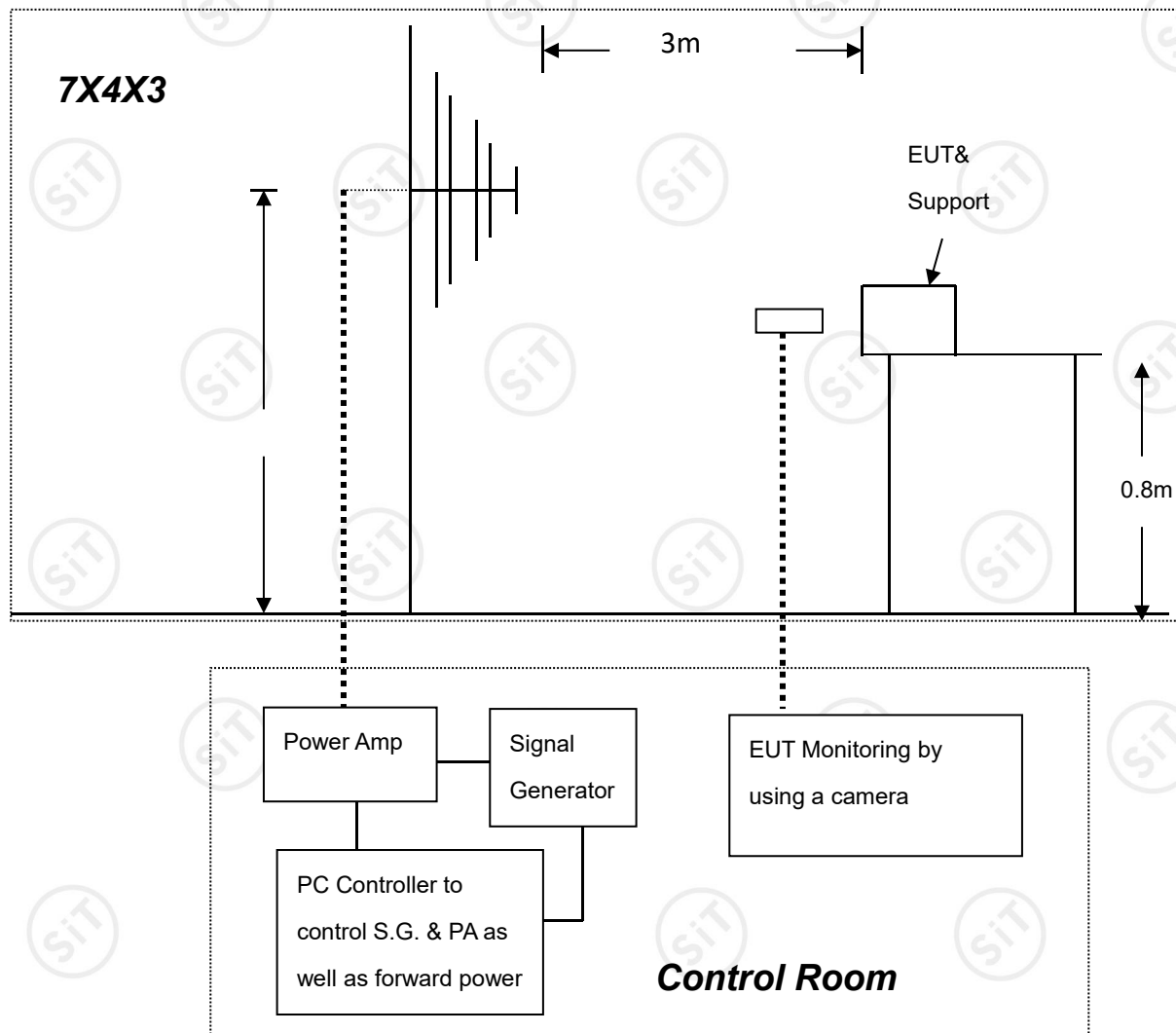
NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).
2. N.C.R.= No Calibration required

8.4.3. TEST PROCEDURE

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

- The testing was performed in a fully anechoic chamber. The transmit antenna was located at a distance of 3 meters from the EUT.
- The frequency range is swept from 80 MHz to 1000 MHz, with the signal 80% amplitude modulated with a 1 kHz 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.
- The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- 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 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	Position	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: 1. 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:	300 ms
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	06/11/2025

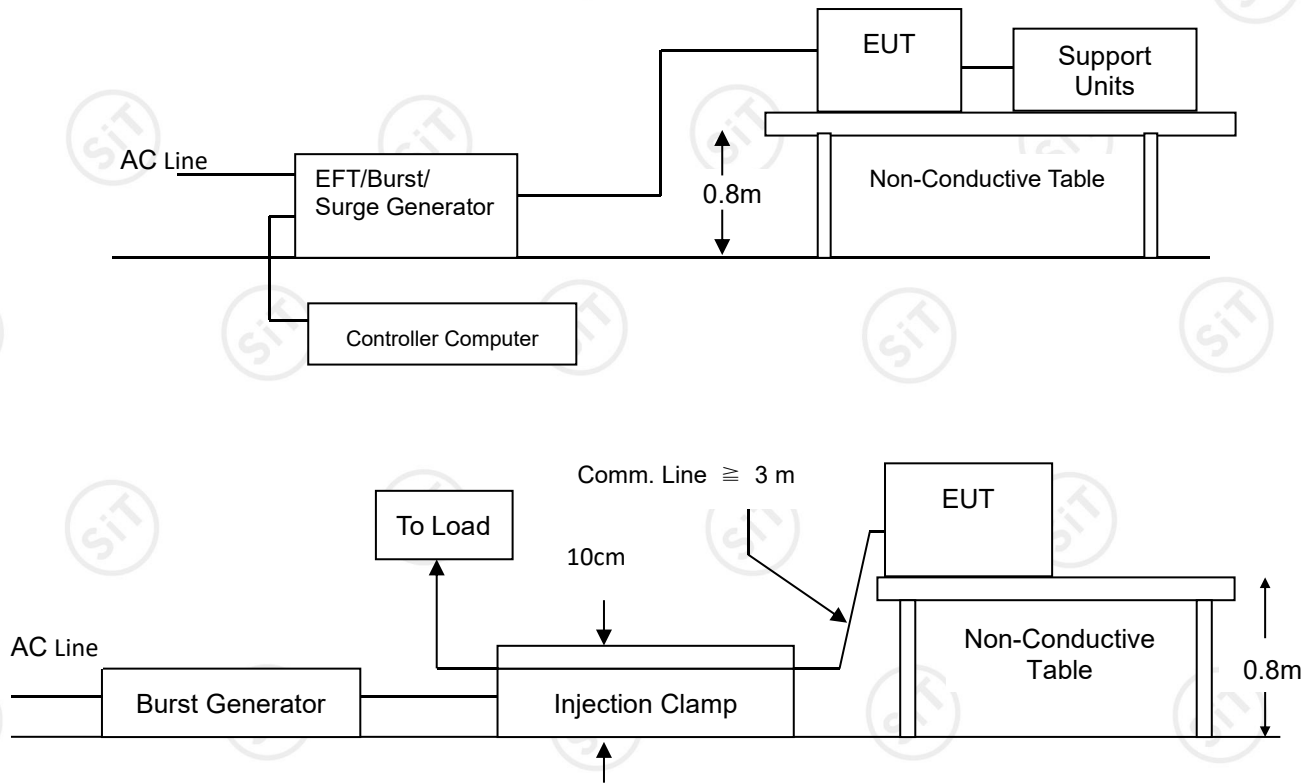
NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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	PASS
Test mode	Normal working	Test By	DebeYu

Test Point	Polarity	Test Level (kV)	Performance Criterion	Observation	Result
L 1	+/-	1	B	Note ☒ 1 ☐ 2	PASS
L 2	+/-	1	B	Note ☒ 1 ☐ 2	PASS
L 1-L 2	+/-	1	B	Note ☒ 1 ☐ 2	PASS
PE	+/-	1	B	Note ☐ 1 ☐ 2	N/A
L – PE	+/-	1	B	Note ☐ 1 ☐ 2	N/A
N – PE	+/-	1	B	Note ☐ 1 ☐ 2	N/A
L – N – PE	+/-	1	B	Note ☐ 1 ☐ 2	N/A
RJ45 UTP cable	--	--	--	Note ☐ 1 ☐ 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	06/11/2025

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.

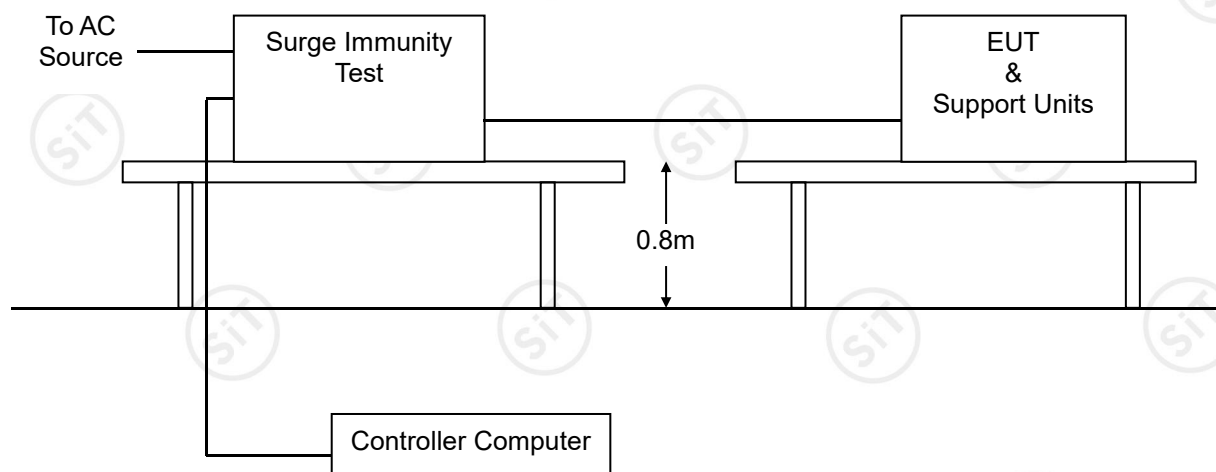
b) For test applied to unshielded un-symmetrically operated interconnection lines of EUT:

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	PASS
Test mode	Normal working	Test By	DebeYu

Test Point	Polarity	Test Level (kV)	Performance Criterion	Observation	Result
L 1 - L 2	+/-	1	B	Note ☐ 1 ☒ 2	PASS
L1 - PE	+/-	2	B	Note ☐ 1 ☐ 2	N/A
L2 - PE	+/-	2	B	Note ☐ 1 ☐ 2	N/A
R - Ground	--	--	--	Note ☐ 1 ☐ 2	N/A
T - Ground	--	--	--	Note ☐ 1 ☐ 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 ~ 80 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-M3/2 (3 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	06/19/2025
Power Amplifier	M2S	A00181-1000	9801-112	06/19/2025
CDN	MEB	M3-8016	003683	06/19/2025

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.

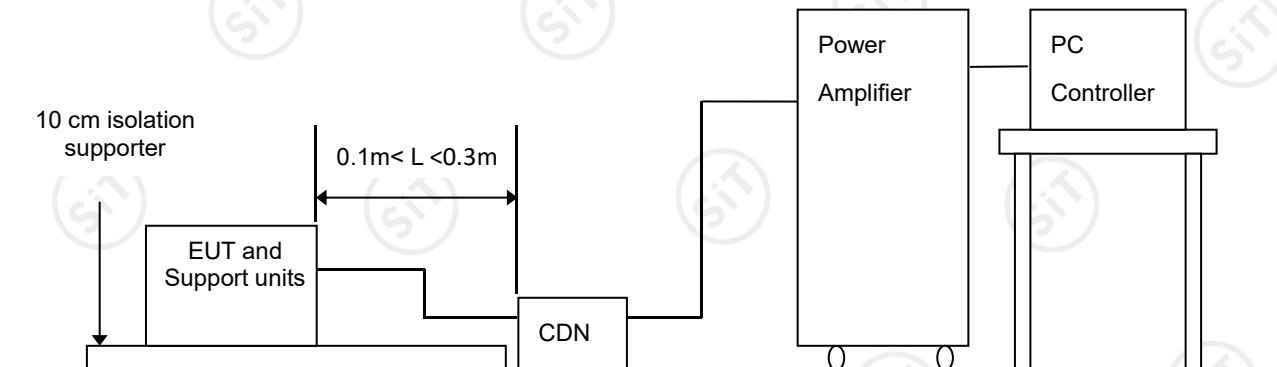
The test shall be performed with the test generator connected to each of the coupling and decoupling devices in turn, while the other non-excited RF input ports of the coupling devices are terminated by a 50-ohm load resistor.

The frequency range was swept from 150 kHz to 80 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 80 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 were 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	PASS
Test mode	Normal working	Test By	DebeYu

Frequency Band (MHz)	Field Strength (Vrms)	Injected Position	Injection Method	Performance Criterion	Observation	Result
0.15 ~ 80	3	AC Mains	CDN-M3	A	Note ☒ 1 ☐ 2	PASS
0.15 ~ 80	3	LAN(10m)	--	--	Note ☐ 1 ☐ 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.N/A means to no applicable.

8.8. POWER FREQUENCY MAGNETIC FIELD

8.8.1. TEST SPECIFICATION

Basic Standard:	EN 61000-4-8
Frequency Range:	50Hz
Field Strength:	1A/m
Observation Time:	5 minutes
Inductance Coil:	Rectangular type, 1mx1m
Performance criterion:	A

8.8.2. TEST INSTRUMENT

Immunity Shield Room				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Power-frequency Magnetic field	SCHAFFNER	CCN 1000-1	72046	06/19/2025
Induction Coil Interface	SCHAFFNER	INA2141	6003	06/14/2025

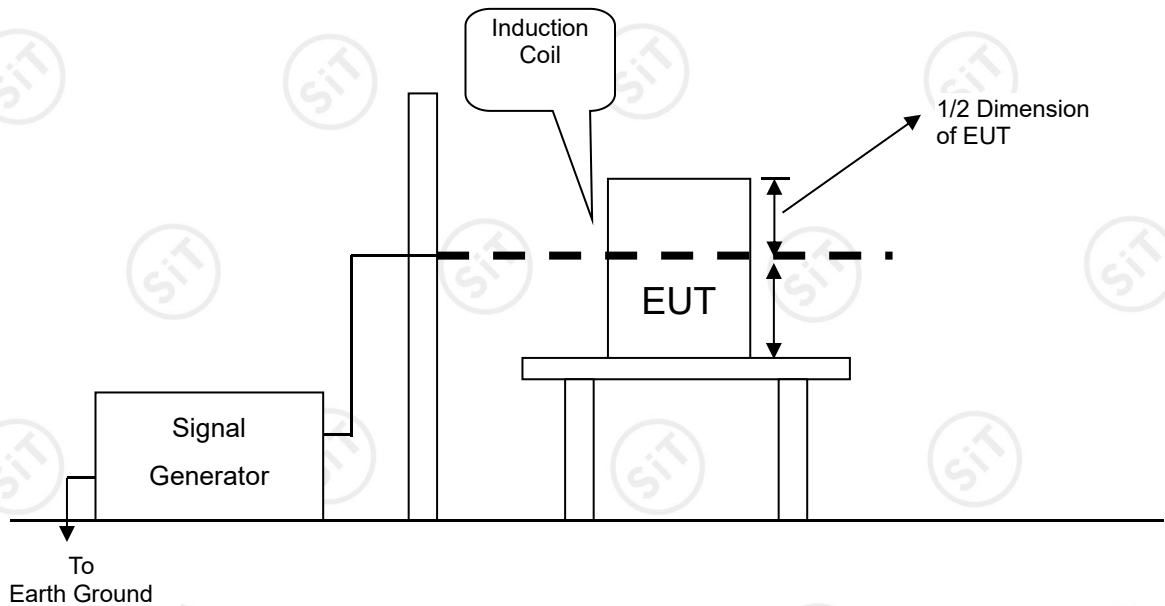
NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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

8.8.3. TEST PROCEDURE

- The equipment is configured and connected to satisfy its functional requirements. It shall be placed on the GRP with the interposition of a 0.1m-thick insulating support.
- The equipment cabinets shall be connected to the safety earth directly on the GRP via the earth terminal of the EUT.
- The power supply, input and output circuits shall be connected to the sources of power supply, control and signal.
- The cables supplied or recommended by the equipment manufacturer shall be used. 1 meter of all cables used shall be exposed to the magnetic field.

8.8.4. TEST SETUP



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

NOTE:

TABLETOP EQUIPMENT

The equipment shall be subjected to the test magnetic field by using the induction coil of standard dimension (1 m x 1 m). The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

FLOOR-STANDING EQUIPMENT

The equipment shall be subjected to the test magnetic field by using induction coils of suitable dimensions. The test shall be repeated by moving and shifting the induction coils, in order to test the whole volume of the EUT for each orthogonal direction. The test shall be repeated with the coil shifted to different positions along the side of the EUT, in steps corresponding to 50 % of the shortest side of the coil. The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

8.8.5. TEST RESULTS

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

DIRECTION	Field Strength (A/m)	Performance Criterion	OBSERVATION	RESULTS
X	1	A	Note ☐ 1 ☒ 2	Pass
Y	1	A	Note ☐ 1 ☒ 2	Pass
Z	1	A	Note ☐ 1 ☒ 2	Pass

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.

8.9. VOLTAGE DIP & VOLTAGE INTERRUPTIONS

8.9.1. TEST SPECIFICATION

Basic Standard:	EN 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:	B,C

8.9.2. TEST INSTRUMENT

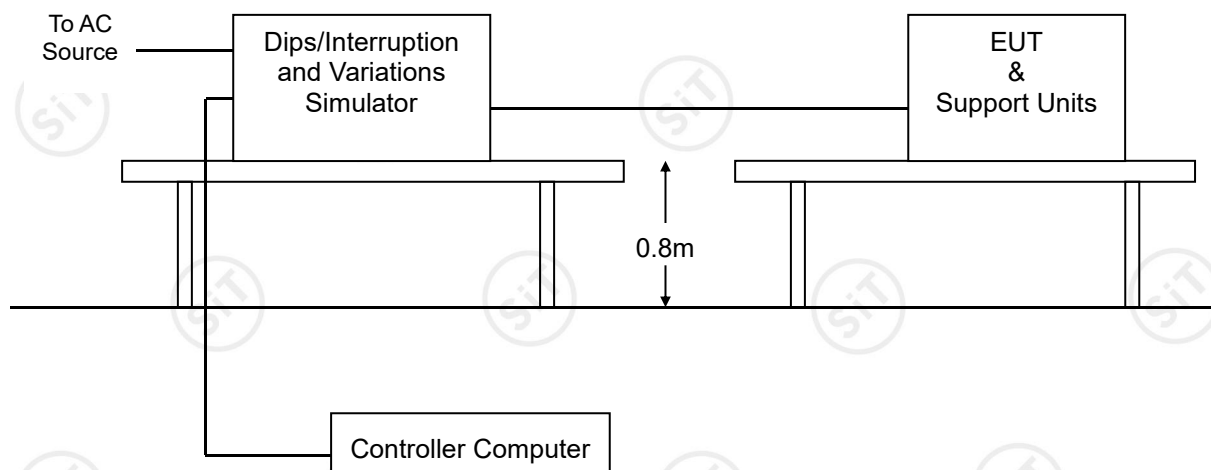
Immunity shielded room				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMC PARTNER TRANSIENT 2000	EMC PARTNER	TRA2000	881	06/11/2025

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

8.9.3. 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.

8.9.4. TEST SETUP



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

8.9.5. TEST RESULTS

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

Voltage (% Reduction)	Duration (Period)	Performance Criterion	Observation	Test Result
98	0.5	☐ A ☒ B ☐ C	Note ☐ 1 ☐ 2 ☐ 3	Pass
30	25	☐ A ☐ B ☒ C	Note ☐ 1 ☐ 2 ☐ 3	Pass
100	250	☐ A ☐ B ☒ C	Note ☐ 1 ☐ 2 ☐ 3	Pass

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 PHOTOGRAPHS OF THE TEST CONFIGURATION

RADIATED EMISSION TEST



CONDUCTED EMISSION MEASUREMENT

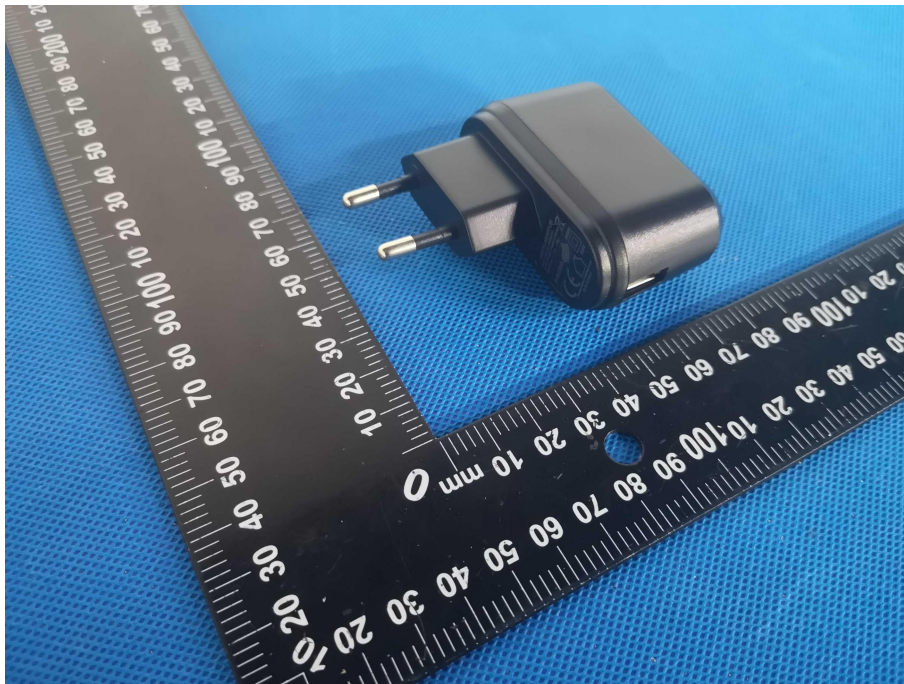


10 PHOTOGRAPHS OF EUT

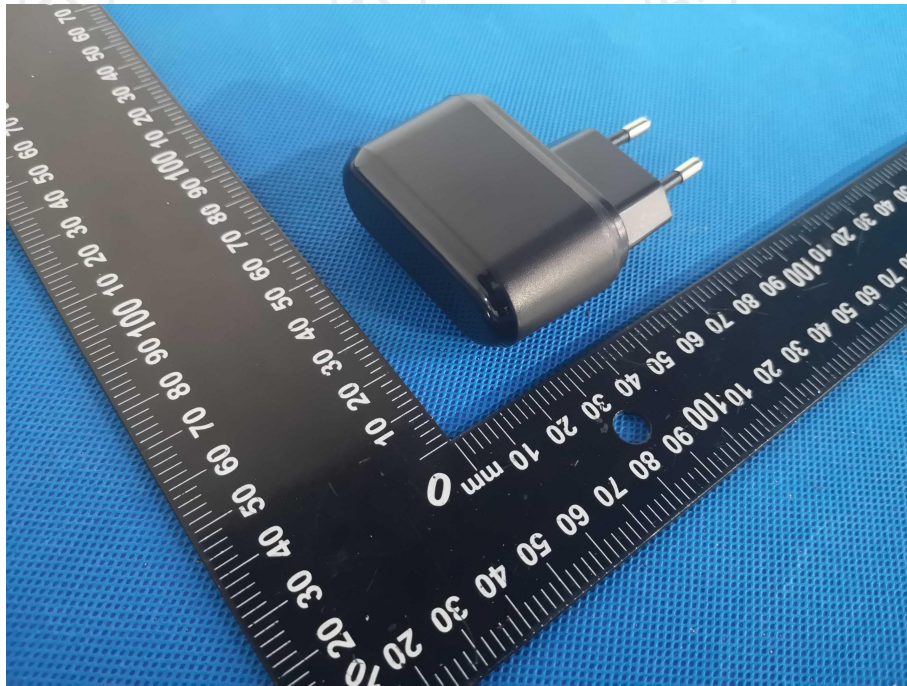
Appearance photograph of EUT



Appearance photograph of EUT



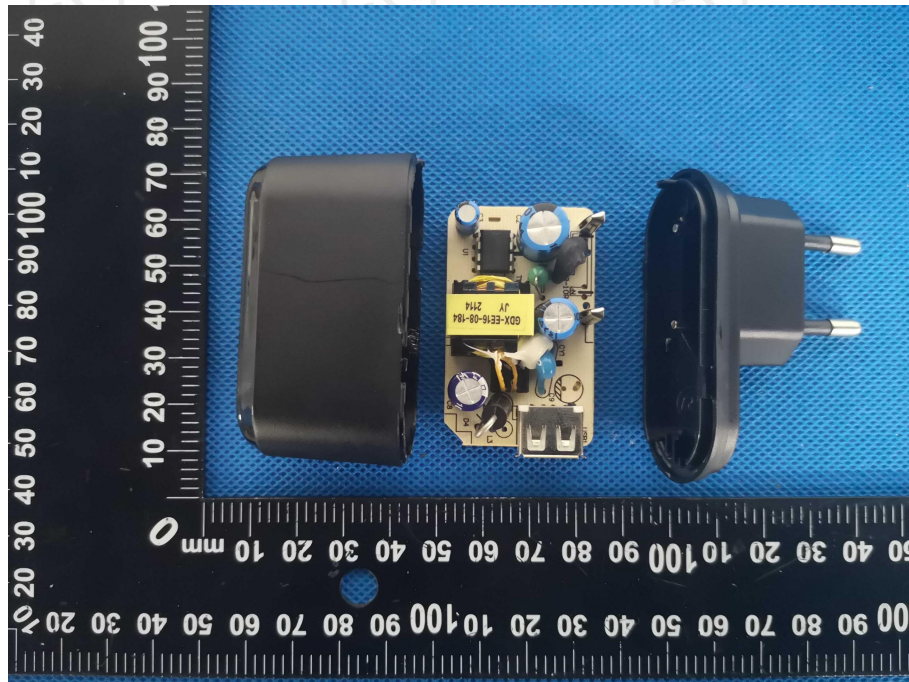
Appearance photograph of EUT



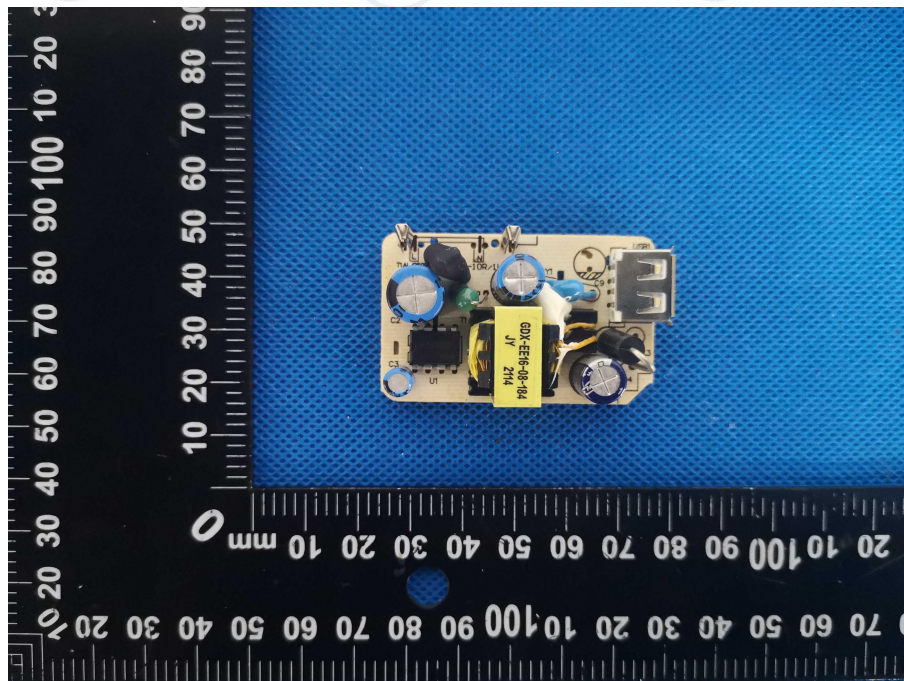
Appearance photograph of EUT



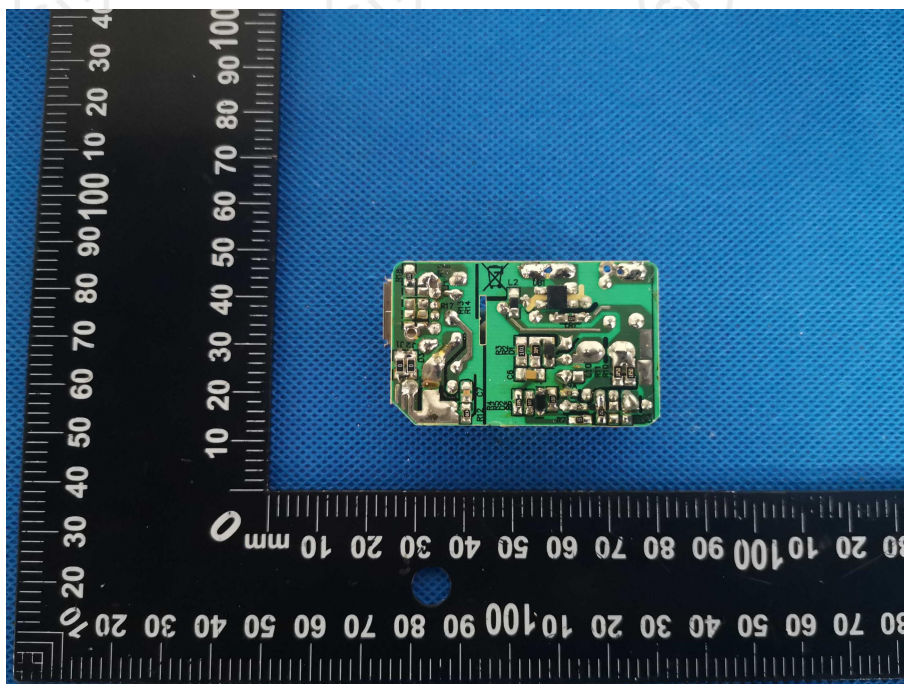
Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



*****END OF REPORT*****