EMC Test Report

Report No.: AGC05443260822ER01

PRODUCT DESIGNATION	:	Speaker
BRAND NAME	:	N/A
MODEL NAME	:	MO2211
APPLICANT	:	MID OCEAN BRANDS B.V.
DATE OF ISSUE	:	Aug. 31, 2026
STANDARD(S)	:	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1 (2024-09)
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 31, 2026	Valid	Initial release

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15. Photographs of EUT 49

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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	Speaker
Brand Name	N/A
Test Model	MO2211
Series Model(s)	N/A
Difference Description	N/A
Deviation from Standard	No any deviation from the test method
Date of Receipt	Aug. 10, 2026
Date of Test	Aug. 10, 2026 to Aug. 31, 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	Jack Gui (Project Engineer)	Aug. 31, 2026
Reviewed By	Bibo Zhang (Reviewer)	Aug. 31, 2026
Approved By	Angela Li (Authorized Officer)	Aug. 31, 2026

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2. Description of Test Configuration

2.1. Technical Description of Product

Product Designation	Speaker
Test Model	MO2211
Hardware Version	V1.0
Software Version	V1.0
Power Supply	DC 3.7V by battery or DC 5V by adapter
Classic Bluetooth Technical Parameters	
Operating Frequency	2402MHz-2480MHz
Modulation Type	☒BR: GFSK ☒EDR: π /4-DQPSK ☒EDR: 8DPSK
Number of channels	79 channels
Antenna Designation	PCB Antenna
Antenna Gain	2dBi

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 301 489-17 V3.3.1 (2024-09)	Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband and Wideband Data Transmission Systems; Harmonized 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	applicable	applicable
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. Test Items and The Results

- **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 301 489-17 standard, the general performance criteria are as follows:

EN 301 489-17 Performance Criteria_ Bluetooth/WLAN		
Criteria	During Test	After Test (i.e. as a result of the application of the test)
A	Shall operate as intended.(see note). Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance. Shall be no loss of function. Shall be no loss of critical stored data.
B	May be loss of function.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no loss of critical stored data.
C	May be loss of function.	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no loss of critical stored data.
The performance criteria A shall apply for continuous phenomena. The performance criteria B shall apply for transient phenomena, except for voltage dips greater than or equal to 100ms and voltage interruptions of 5 000ms duration, for which performance criteria C shall apply. Where the EUT is a transmitter in standby mode or receive mode, unintentional transmission shall not occur during the test.		
Note: Operate as intended during the test allows a level of degradation in accordance with the Minimum performance level.		
Minimum performance level		
For equipment that supports a PER or FER, the minimum performance level shall be a PER or FER less than or equal to 10 %. For equipment that does not support a PER or a FER, the minimum performance level shall be no loss of the wireless transmission function needed for the intended use of the equipment.		

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2.5. Description of Test Modes

No.	Test Mode Description
1	BT Link Mode + Charging

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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
Smartphone	Xiaomi	MI 10	--	--	--
Adapter	Apple	A2452	--	--	--

☐ Test Accessories Come From The Manufacturer

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

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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/IEC17025: 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 (℃)	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, Uc = ±2.9dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.9dB

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

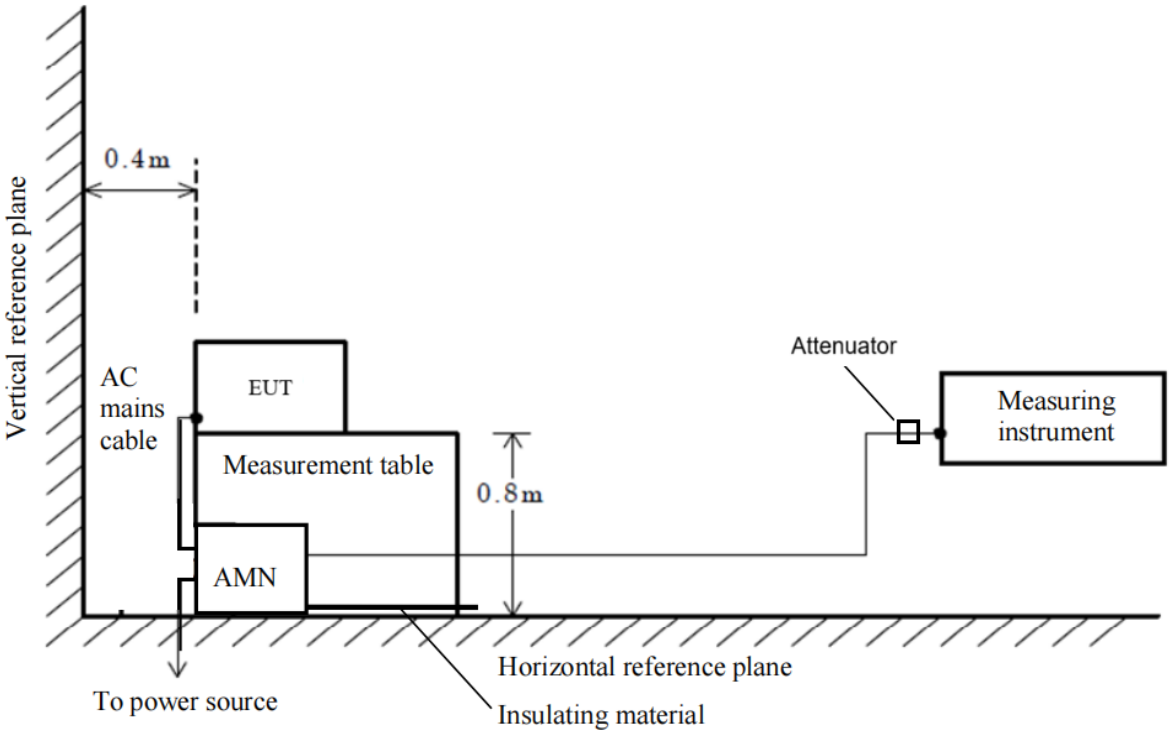
5.1. Requirements

Requirements for conducted emissions, low voltage AC mains port

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

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	2026-05-20	2027-05-19
AGC-EM-E023	Artificial Mains Network	R&S	ESH2-Z5	100086	2026-05-19	2027-05-18
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

a. 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.

b. Support equipment, if needed, was placed as per CISPR 16-2-1.

c. All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-1.

d. 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.

e. The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.

f. 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.

g. A conducted emission is calculated by the following equation:
   - Measurement Level (dBμV) = Receiver reading (dBμV) + Tansd (dB)
   - Transd(dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
   - Margin= Limit-Level

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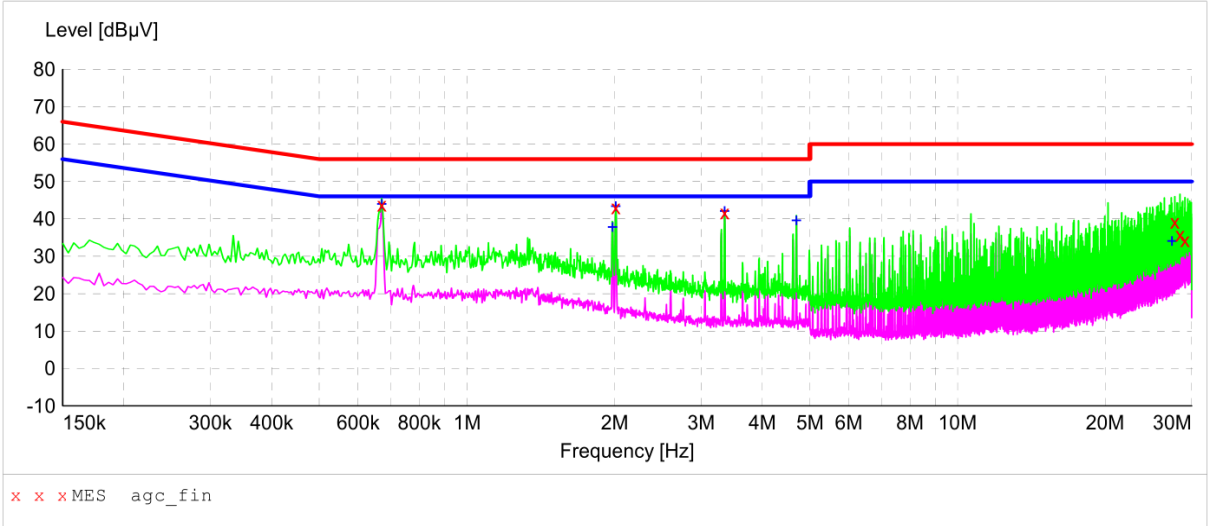
5.5. Test Summary

Test Engineer	Alex Yang	Temperature	22.1 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	52.6 %
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
0.670000	43.8	10.3	56.0	12.2	QP	L1
2.010000	43.1	10.5	56.0	12.9	QP	L1
3.350000	41.7	10.6	56.0	14.3	QP	L1
27.722000	39.2	17.5	60.0	20.8	QP	L1
28.394000	35.8	17.7	60.0	24.2	QP	L1
29.066000	34.3	17.9	60.0	25.7	QP	L1
0.670000	43.9	10.3	46.0	2.1	AV	L1
1.978000	37.7	10.4	46.0	8.3	AV	L1
2.010000	43.3	10.5	46.0	2.7	AV	L1
3.350000	42.0	10.6	46.0	4.0	AV	L1
4.690000	39.5	10.8	46.0	6.5	AV	L1
27.350000	34.0	17.4	50.0	16.0	AV	L1

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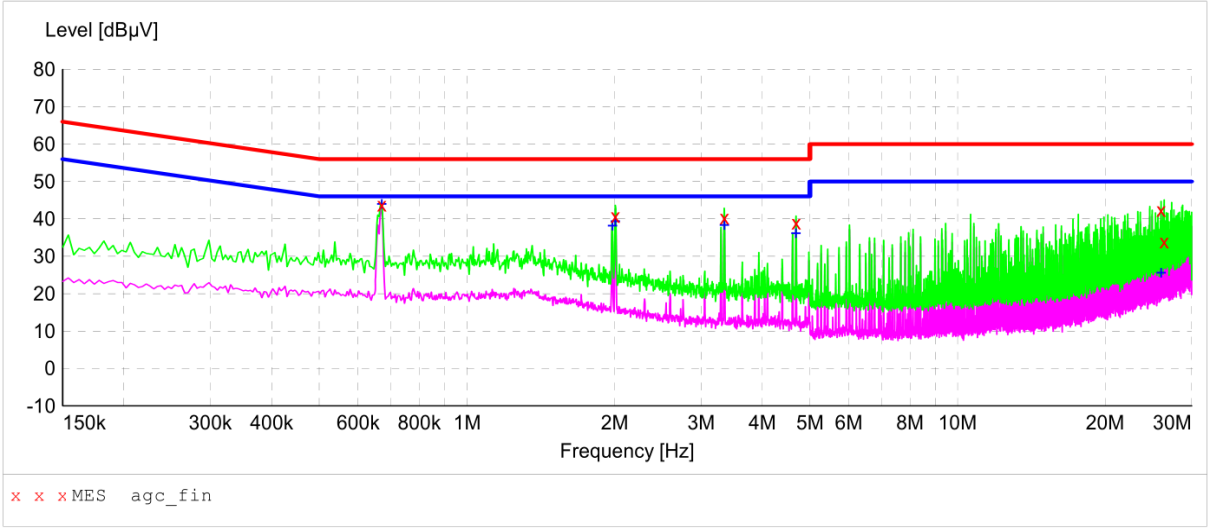
Test graph and data for Conducted Emission
Test Mode: Mode 1



Frequency [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector	Line
0.670000	43.8	10.3	56.0	12.2	QP	N
2.006000	40.8	10.5	56.0	15.2	QP	N
3.346000	40.4	10.6	56.0	15.6	QP	N
4.686000	39.0	10.8	56.0	17.0	QP	N
25.982000	42.4	16.9	60.0	17.6	QP	N
26.354000	33.9	17.0	60.0	26.1	QP	N
0.670000	43.9	10.3	46.0	2.1	AV	N
1.978000	38.1	10.4	46.0	7.9	AV	N
2.006000	39.3	10.5	46.0	6.7	AV	N
3.346000	38.3	10.6	46.0	7.7	AV	N
4.686000	36.1	10.8	46.0	9.9	AV	N
25.982000	25.5	16.9	50.0	24.5	AV	N

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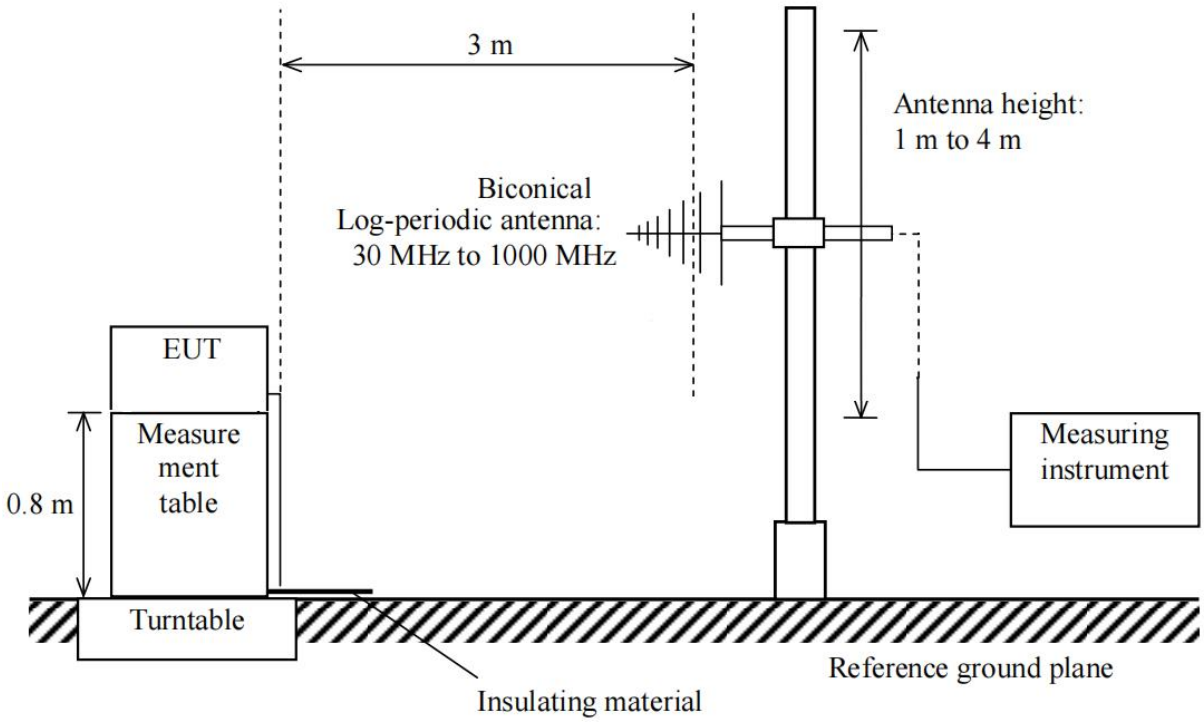
6. Measurement of Radiated Emissions at Frequencies up to 1 GHz

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(μV/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

a. 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.

b. Support equipment, if needed, was placed as per CISPR 16-2-3.

c. All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-3.

d. 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.

e. The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.

f. 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.

g. 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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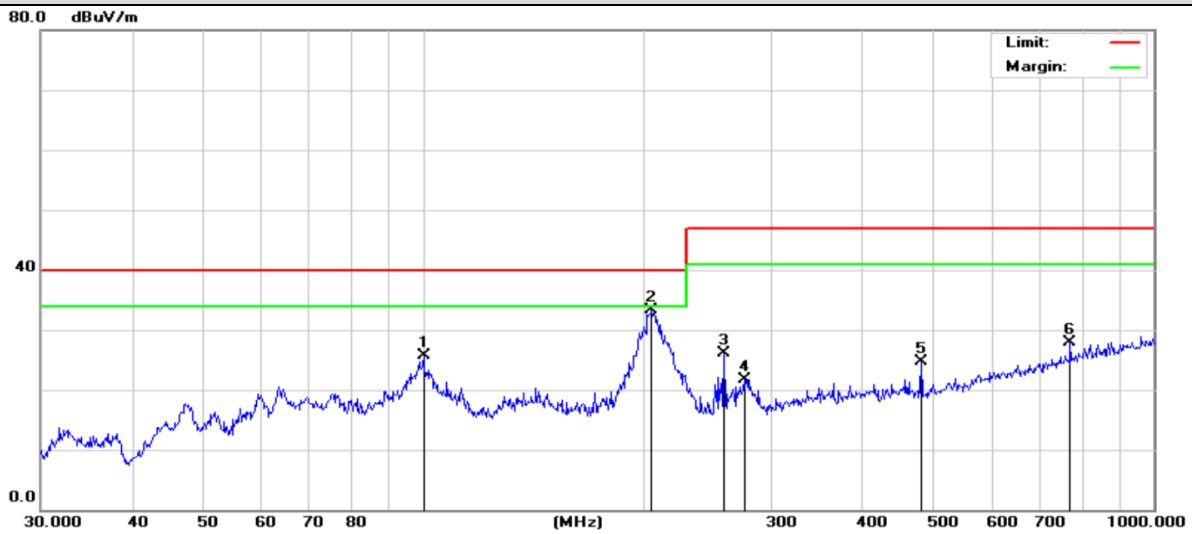
6.5. Test Summary

Test Engineer	Carl Duan	Temperature	19.9 °C
Test Date	2026-08-19	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	51.0 %
Verdict	Pass		

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	100.2286	25.64	-25.34	40.00	14.36	peak	Horizontal
2	205.6751	33.28	-24.96	40.00	6.72	peak	Horizontal
3	258.3264	26.20	-22.66	47.00	20.8	peak	Horizontal
4	275.1570	21.76	-21.79	47.00	25.24	peak	Horizontal
5	480.5276	24.68	-19.43	47.00	22.32	peak	Horizontal
6	768.7481	27.90	-13.11	47.00	19.1	peak	Horizontal

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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	32.5197	36.94	-23.79	40.00	3.06	QP	Vertical
2	47.3253	34.12	-21.96	40.00	5.88	QP	Vertical
3	59.8588	36.39	-22.16	40.00	3.61	peak	Vertical
4	63.0915	34.87	-22.57	40.00	5.13	peak	Vertical
5	202.8103	36.21	-24.00	40.00	3.79	QP	Vertical
6	576.6443	36.52	-14.68	47.00	10.48	peak	Vertical

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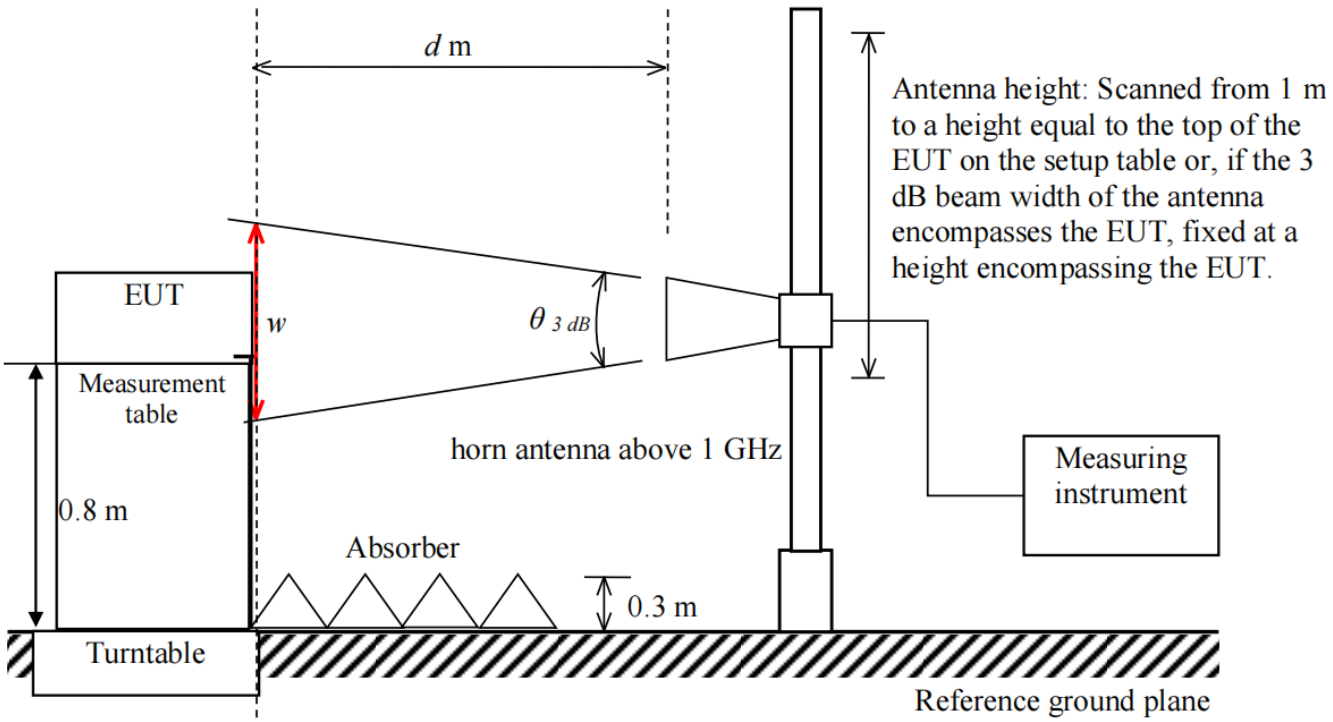
7. Measurement of Radiated Emissions at Frequencies Above 1 GHz

7.1. Requirements

Requirements for radiated emissions at frequencies above 1 GHz at 3m distance

Test facility	Detector type/ bandwidth	Frequency Range (MHz)	Limits dB(μV/m)	Measurement specifications
FSOATS	Peak/ 1MHz	1000 to 3000	70	Instrumentation: CISPR 16-1-1, Clauses 4, 6, 7 Antennas: CISPR 16-1-4, Clause 4.6 Test Site: CISPR 16-1-4, Clause 7 Method: CISPR 16-2-3, Clause 7.6
		3000 to 6000	74	
	Average/ 1MHz	1000 to 3000	50	
		3000 to 6000	54	
Note: 1. The lower limit shall apply at the transition frequency.				

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-E061	Signal Analyzer	Keysight	N9010A	MY53470504	2026-05-20	2027-05-19
AGC-EM-E102	Antenna	ETS	3117	00154520	2026-05-22	2027-05-21
AGC-EM-E146	Preamplifier	ETS	3117PA	00246148	2026-07-14	2028-07-13
AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	N/A	N/A

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S004	TS+[JS32-RE]	Tonscend	For EMC Measurement, Version 4.0.0.0

7.4. Configuration of the EUT and method of measurement

a. 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.

b. Support equipment, if needed, was placed as per CISPR 16-2-3.

c. All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-3.

d. 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 scanned from 1 m to a height equal to the top of the EUT on the setup table or, if the 3 dB beam width of the antenna encompasses the EUT, fixed at a height encompassing the EUT. The cables were laid out to attain the maximum level of radiated emissions.

e. The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.

f. 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.

g. 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) – Amplifier Gain(dB)
   - Margin= Limit-Level

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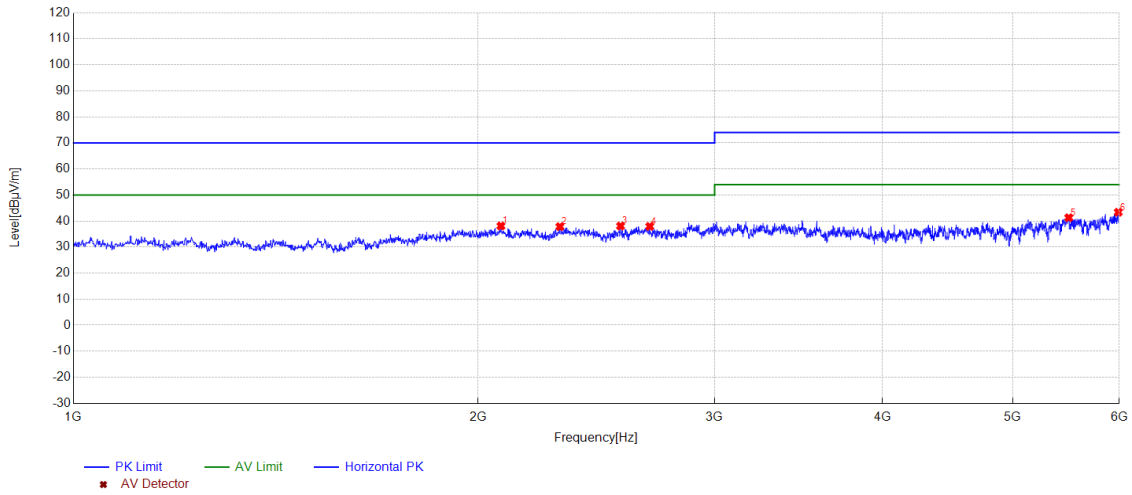
7.5. Test Summary

Test Engineer	Carl Duan	Temperature	19.6 °C
Test Date	2026-08-19	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	52.3 %
Verdict	Pass		

Test graph and data for Radiated Emission above 1GHz

Test Mode: Mode 1



No.	Frequency [MHz]	Level [dBµV/m]	Factor dB	Limit [dBµV/m]	Margin dB	Detector	Polarity
1	2080.216043	38.11	-13.45	70.00	31.89	Peak	Horizontal
2	2301.260252	37.85	-12.47	70.00	32.15	Peak	Horizontal
3	2553.310662	38.09	-11.55	70.00	31.91	Peak	Horizontal
4	2684.336867	37.94	-11.43	70.00	32.06	Peak	Horizontal
5	5502.90058	41.28	-6.88	74.00	32.72	Peak	Horizontal
6	5989.998	43.37	-4.76	74.00	30.63	Peak	Horizontal

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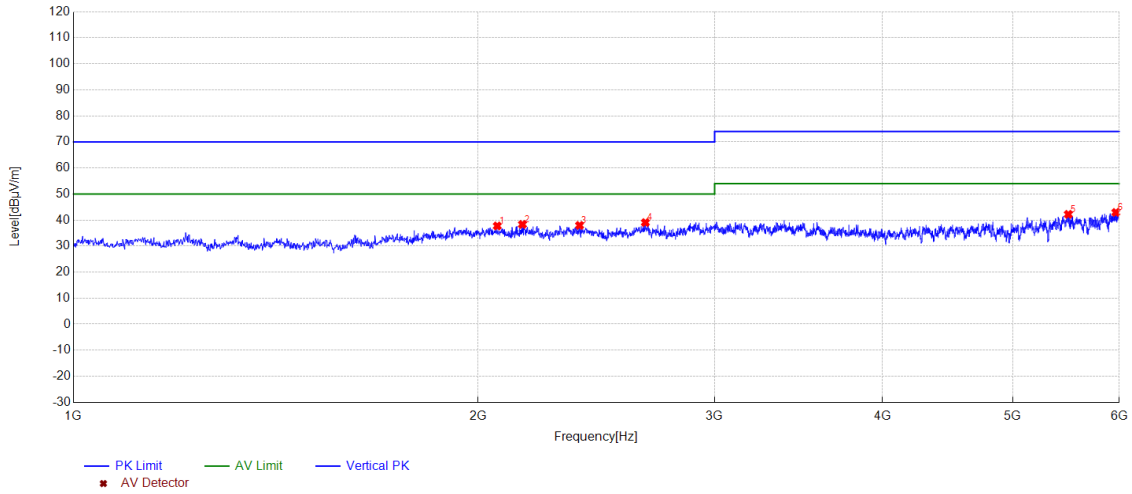
Test graph and data for Radiated Emission above 1GHz
Test Mode: Mode 1



No.	Frequency [MHz]	Level [dBµV/m]	Factor dB	Limit [dBµV/m]	Margin dB	Detector	Polarity
1	2067.213443	37.73	-13.50	70.00	32.27	Peak	Vertical
2	2158.231646	38.31	-13.11	70.00	31.69	Peak	Vertical
3	2380.276055	37.93	-12.12	70.00	32.07	Peak	Vertical
4	2664.332867	39.04	-11.45	70.00	30.96	Peak	Vertical
5	5498.89978	42.18	-6.90	74.00	31.82	Peak	Vertical
6	5964.992999	42.92	-4.87	74.00	31.08	Peak	Vertical

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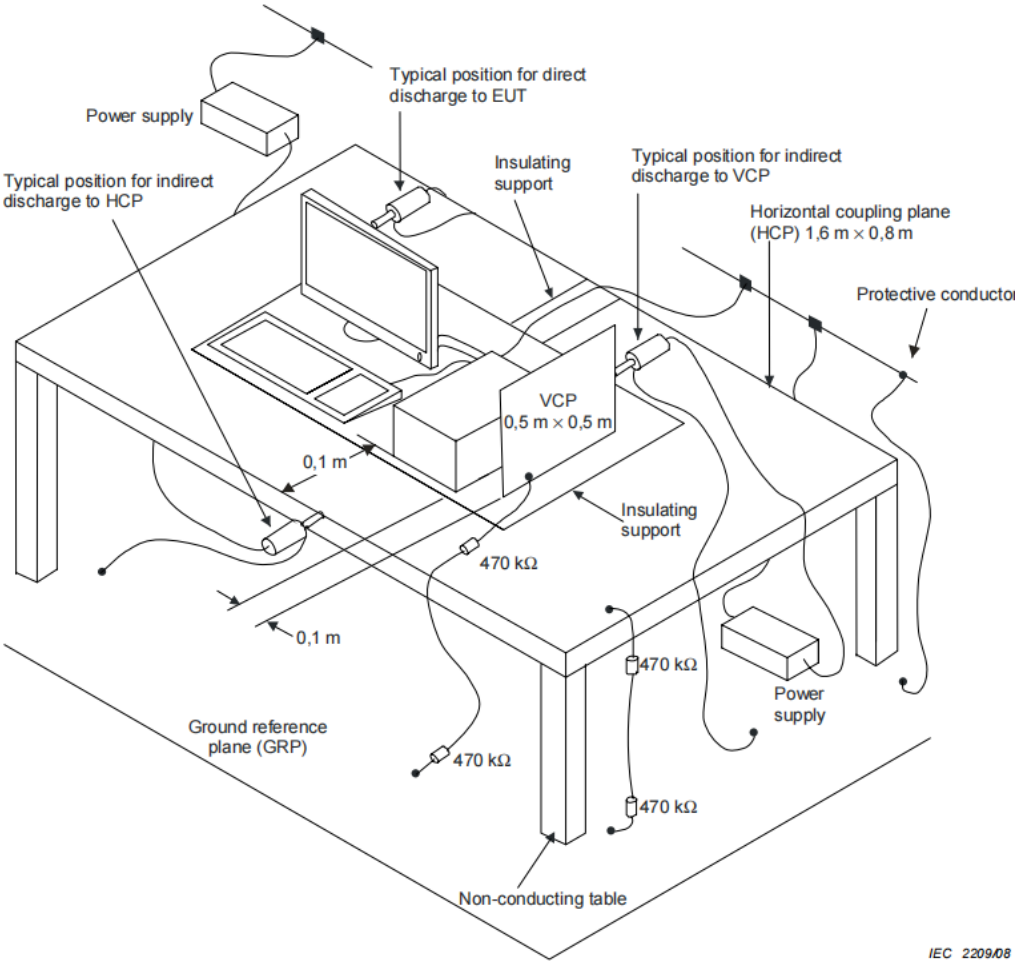
8. Measurement of Electrostatic discharge

8.1. 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

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-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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8.4. Configuration of the EUT and method of measurement

a. Electrostatic discharges were applied only to those points and surfaces of the EUT that are accessible to users during normal operation.
b. The test was performed with at least ten single discharges on the pre-selected points in the most sensitive polarity.
c. The time interval between two successive single discharges was at least 1 second.
d. 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.
e. Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.
f. 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.
g. 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.
h. 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.
i. 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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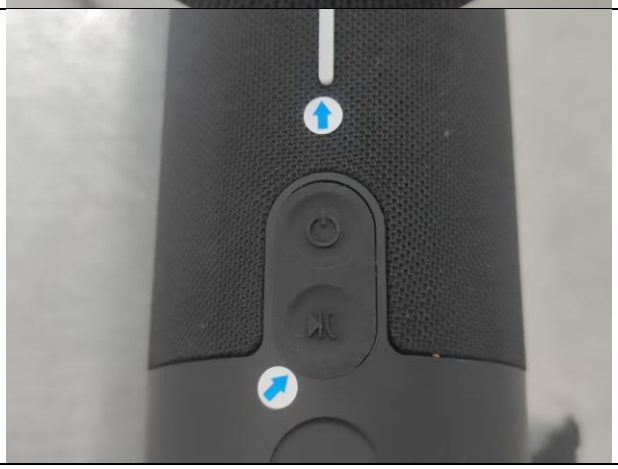
8.5. Test Summary

Test Engineer	Alex Yang	Temperature	22.3 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	53.1 %
Verdict	Pass		

Voltage	Coupling	Observation	Results
±4kV	Contact Discharge	No degradation of performance	Pass
±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

Discharge Point:	
Red line: Contact discharge Blue line: Air Discharge	
	N/A

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9. Measurement of Radio-Frequency Electromagnetic Field

9.1. 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:

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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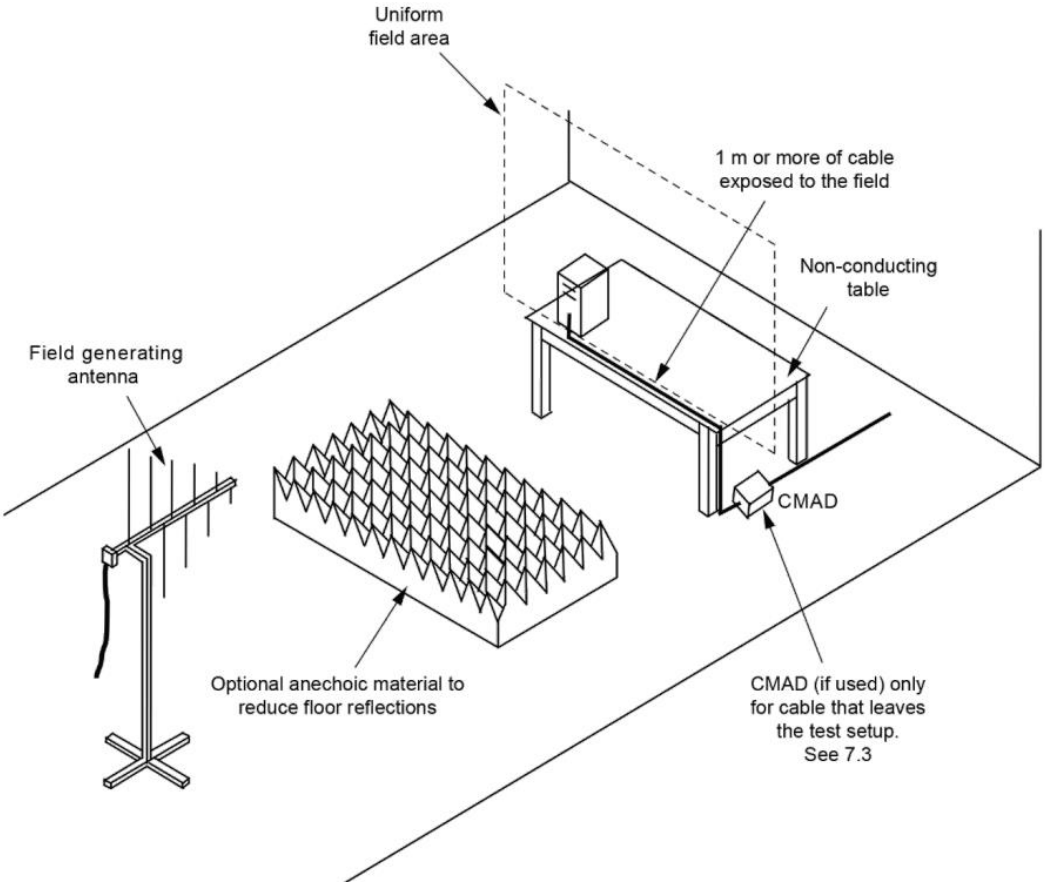
9.2. Block Diagram of Test Setup



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9.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-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	2026-07-14	2027-07-13
AGC-EM-E028	Wideband Antenna	ETS-LINDGREN	3142C	60447	N/A	N/A
AGC-EM-E029	Antenna	ETS	3117	34609	2026-03-14	2027-03-13
AGC-EM-E035	Power Probe	R&S	URV5-Z4	100124	2025-03-24	2027-03-23
AGC-EM-E040	Directional Coupler	Werlatone	C5571-10	99463	2026-01-13	2028-01-12
AGC-EM-E041	Directional Coupler	Werlatone	C6026-10	99482	2026-01-13	2028-01-12
AGC-EM-E080	Power Amplifier	Rflight	NTWPA-2560100	17063183	2026-07-14	2027-07-13
AGC-EM-E115	Signal Generator	AGILENT	N5182A	MY49060745	2026-01-13	2027-01-12
AGC-EM-E160	Power Amplifier	TESEQ	CBA3G-100	T43913	2026-05-19	2027-05-18

Measuring Software

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

9.4. Configuration of the EUT and method of measurement

a. 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.

b. 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.

c. The test shall be performed according to the above requirements and block diagram which shall specify the test setup.

d. 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	Carl Duan	Temperature	22.0 °C
Test Date	2026-08-19	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	56.8 %
Verdict	Pass		

Frequency	Exposed Side	Field Strength (V/m)	Observation	Performance
80MHz to 6GHz	Front	3V/m (rms)	See Note	A
	Left		See Note	A
	Rear		See Note	A
	Right		See Note	A
Note: No degradation or PER < 10% in the performance of the EUT was observed.				

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10. Measurement of Radio-frequency common mode

10.1. 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		

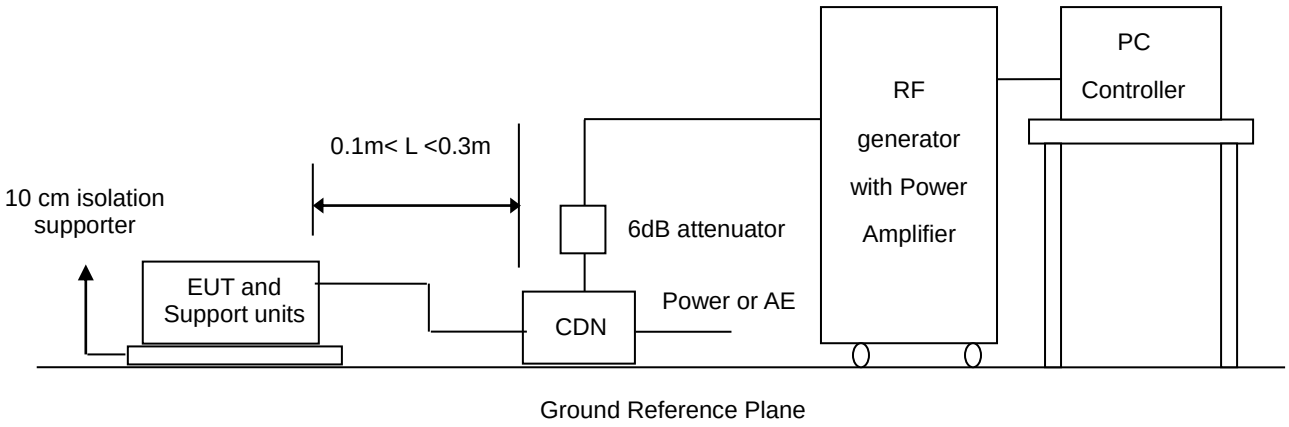
Notes:

a. Applicable only to ports which, according to the manufacturer's specification, supports cable lengths greater than 3 m.

b. 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.

c. 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.

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-A048	Attenuator	ZHINAN	E-002	N/A	2026-07-14	2028-07-13
AGC-EM-E005	Power Meter	R&S	NRVD	8323781027	2025-03-24	2027-03-23
AGC-EM-E017	Power Amplifier	AR	75A250	18464	2026-07-14	2027-07-13
AGC-EM-E035	Power Probe	R&S	URV5-Z4	100124	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	AGILENT	N5182A	MY49060745	2026-01-13	2027-01-12
AGC-EM-E161	CDN	3C TEST	CDN M2M3	ES064002624028	2026-07-14	2027-07-13

Measuring Software

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

10.4. Configuration of the EUT and method of measurement

a. The Equipment Under Test (EUT) shall be tested within its intended operating and climatic conditions.

b. 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.

c. The test shall be performed according to the above requirements and block diagram which shall specify the test setup.

d. 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	Alex Yang	Temperature	21.5 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	54.2 %
Verdict	Pass		

Test port	Test Level	Coupling method	Observation	Performance
AC Mains Input	3 V	CDN	See Note	A
Note: No degradation or PER < 10% in the performance of the EUT was observed.				

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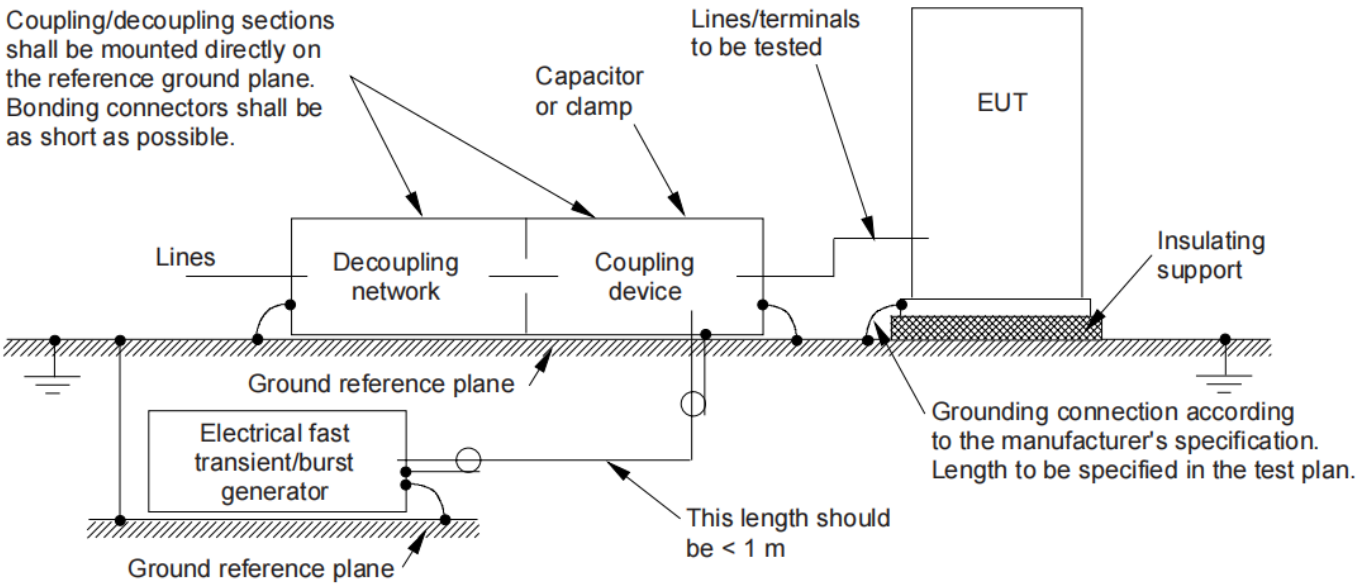
11. Measurement of Fast Transients

11.1. 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.

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	2026-05-19	2027-05-18

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

a. 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 ± 0,01 m thick.

b. The test generator and the coupling/decoupling network shall be placed directly on, and bonded to, the ground reference plane.

c. 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.

d. 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.

e. Either a direct coupling network or a capacitive clamp shall be used for the application of the test voltages.

f. 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	Alex Yang	Temperature	22.9 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	51.5 %
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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12. Measurement of Surges

12.1. 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) µs		
Number of impulses	Five positive and five negative impulses		
Time between successive impulses	1 min		

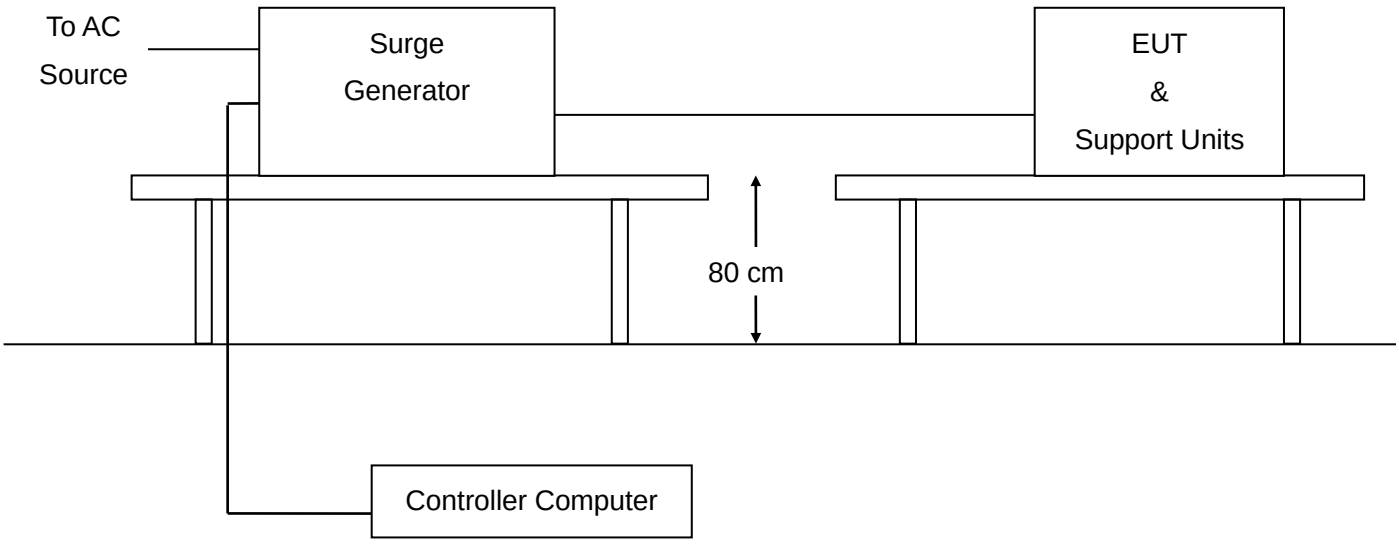
Notes:

a. 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.

b. 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	2026-05-19	2027-05-18

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

a. Verification shall be performed. It is preferable to perform the verification prior to the test.

b. The test shall be performed according to the above requirements and block diagram which shall specify the test setup.

c. When testing line-to-ground, the lines are tested individually in sequence, if there is no other specification.

d. 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.

e. 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	Alex Yang	Temperature	22.9 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	51.5 %
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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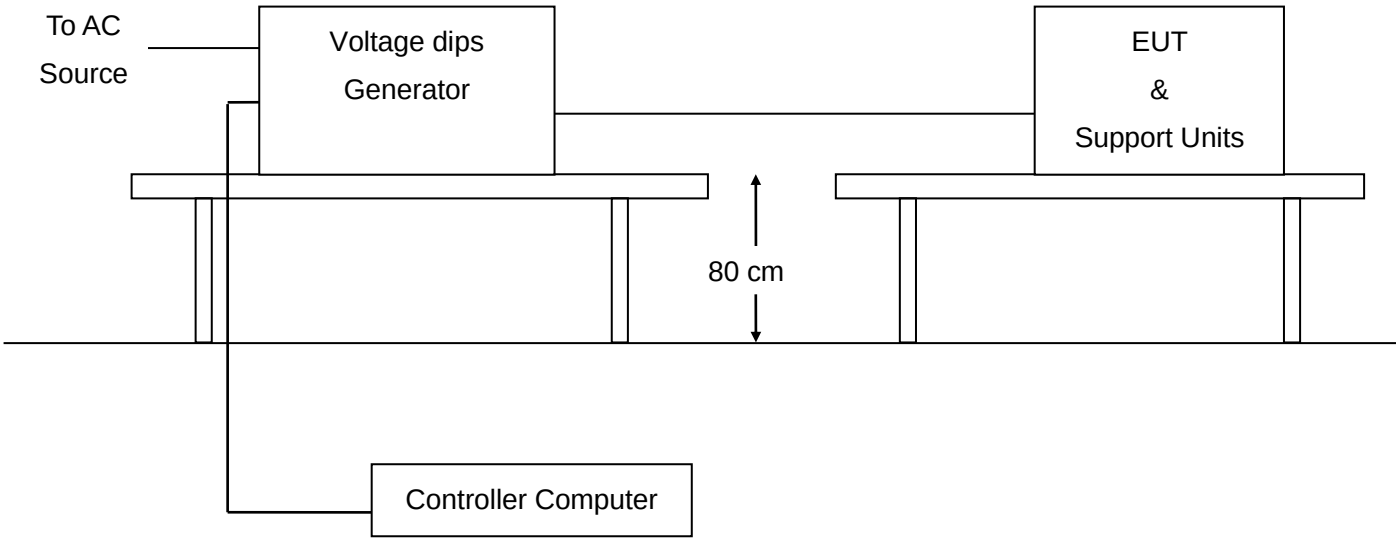
13. Measurement of Voltage dips and interruptions

13.1. 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:
a. 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.
b. Apply at only one supply frequency of the EUT.

13.2. Block Diagram of Test Setup



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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	2026-05-19	2027-05-18

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
--	--	--	--	--	--

13.4. Configuration of the EUT and method of measurement

a. The test shall be performed according to the above requirements and block diagram which shall specify the test setup.

b. 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	Alex Yang	Temperature	22.9 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	51.5 %
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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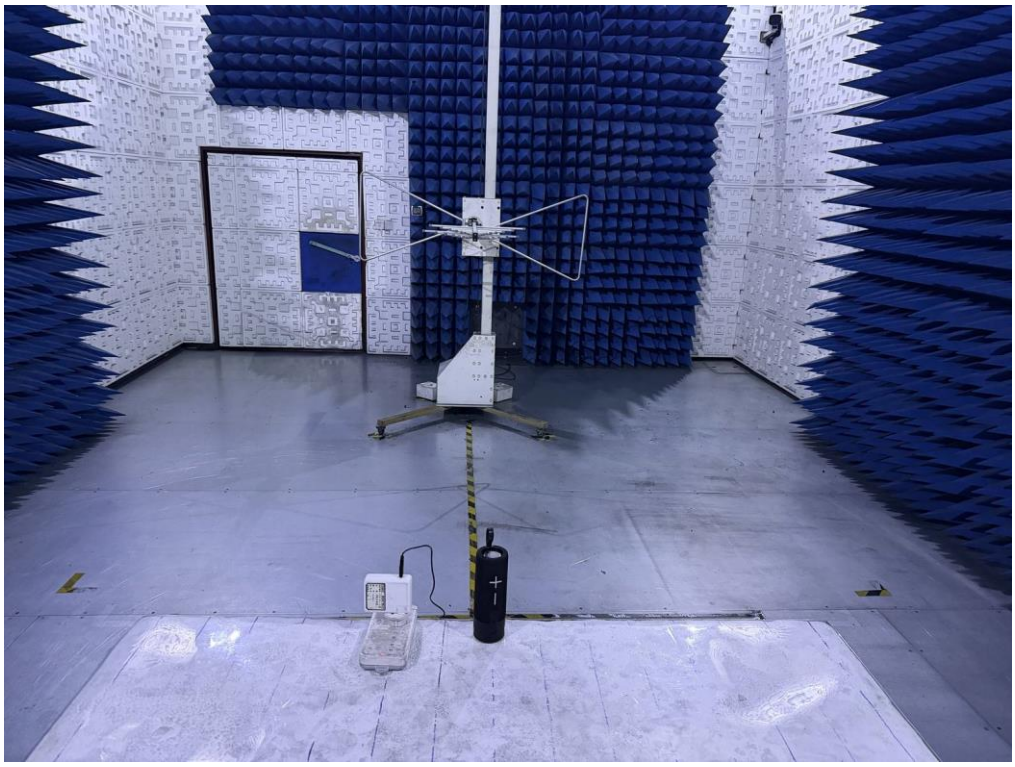
14. Photographs of Test Setup

Conducted emissions from the AC mains power ports



Radiated emissions at frequencies up to 1 GHz

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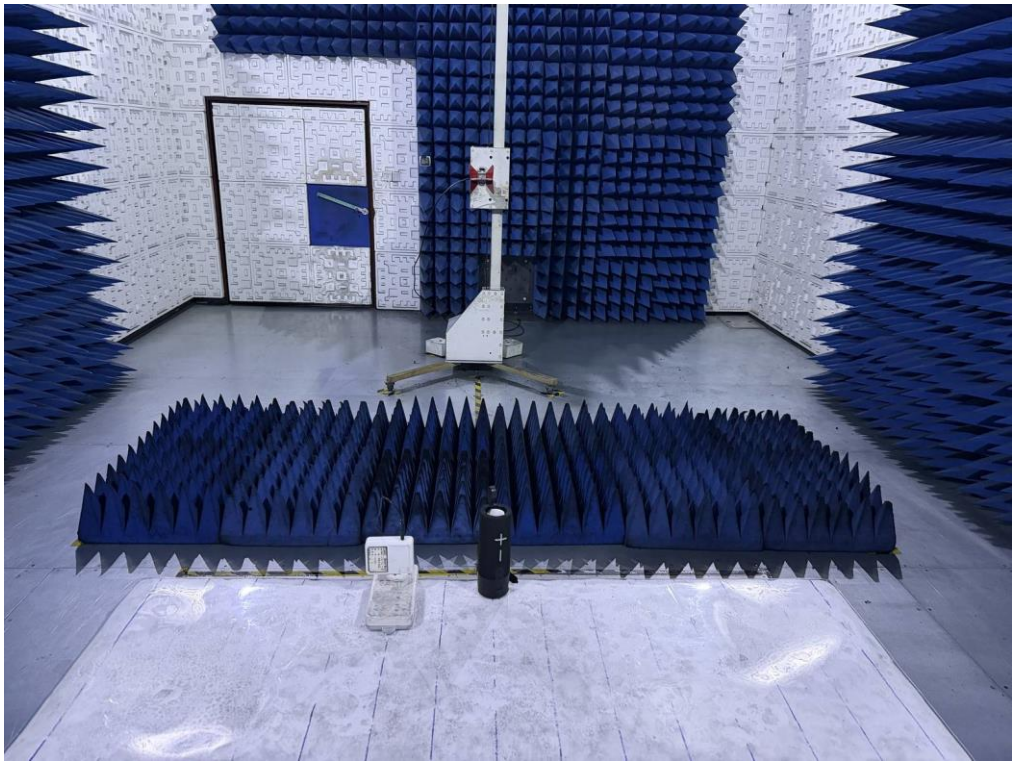

Radiated emissions at frequencies above 1 GHz

Electrostatic discharge

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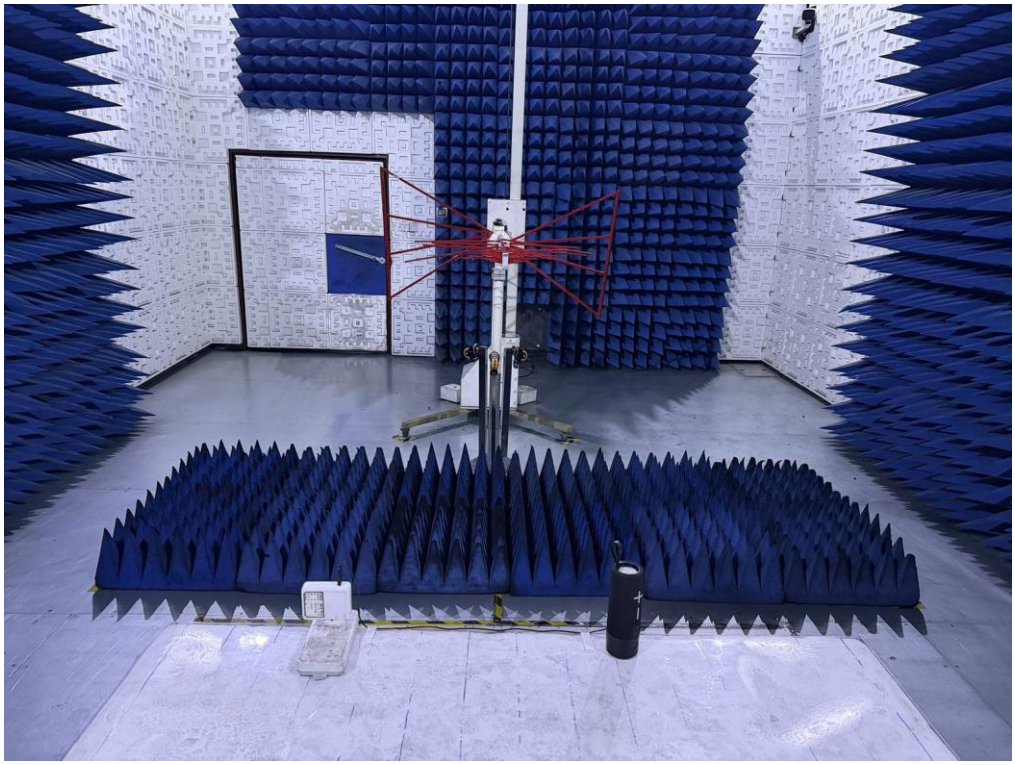
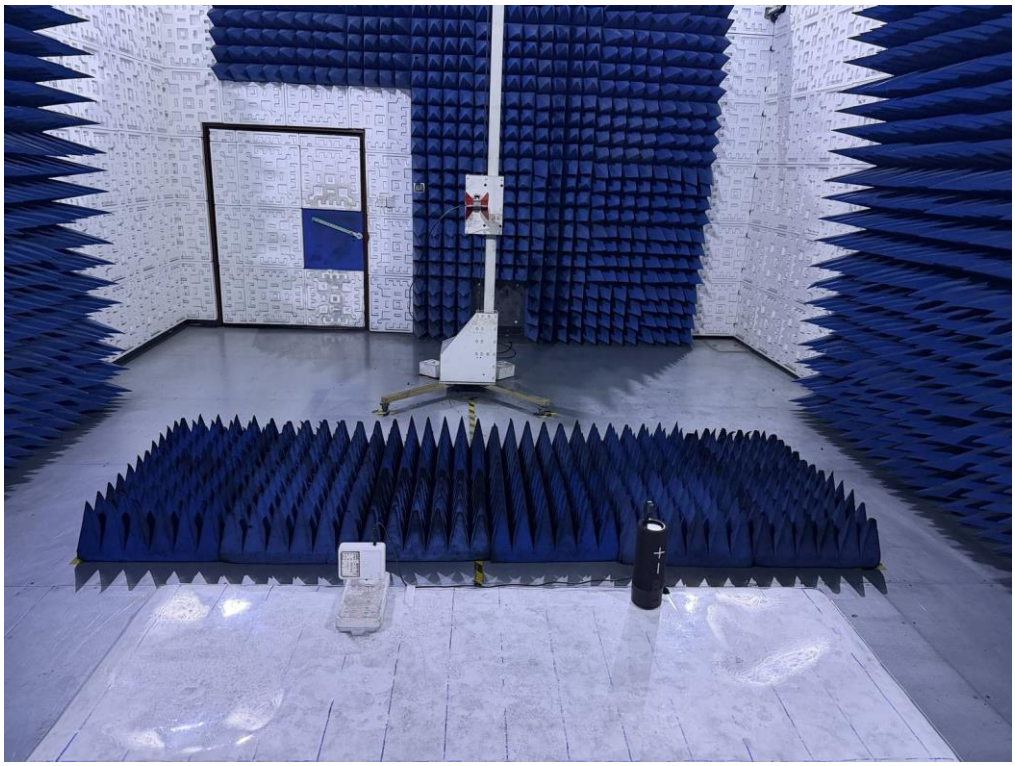


Radio-frequency electromagnetic field up to 1 GHz



Radio-frequency electromagnetic field above 1 GHz

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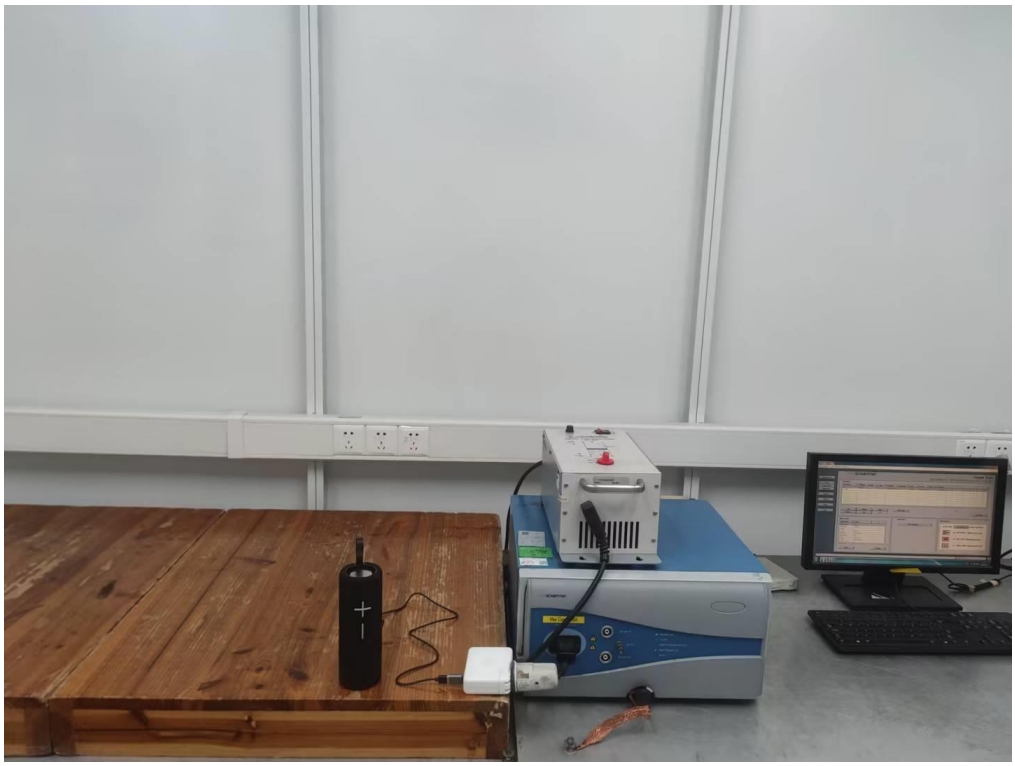
Radio-frequency common mode at the AC mains power ports



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

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15. Photographs of EUT

Refer to the Report No.: AGC05443260822AP01

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
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.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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 Test Report

Report No.: AGC05443260822EE01

PRODUCT DESIGNATION	:	Speaker
BRAND NAME	:	N/A
MODEL NAME	:	MO2211
APPLICANT	:	MID OCEAN BRANDS B.V.
DATE OF ISSUE	:	Aug. 31, 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

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 31, 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	Speaker
Brand Name	N/A
Test Model	MO2211
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	Aug. 10, 2026
Date of Test	Aug. 10, 2026 to Aug. 31, 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	Jack Gui (Project Engineer)	Aug. 31, 2026
Reviewed By	Bibo Zhang (Reviewer)	Aug. 31, 2026
Approved By	Angela Li (Authorized Officer)	Aug. 31, 2026

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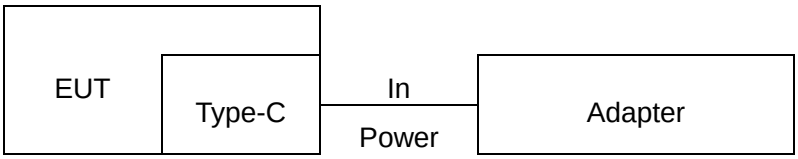
2. Description of Test Configuration

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	Greater than 108MHz
Power Supply	DC 3.7V by battery or DC 5V by adapter
Adapter Information	N/A
Battery Information	DC 3.7V 1200mAh 4.44Wh

Connection Diagram of Host System



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

Port Type	Input/Output	Number	Cable Description
TF Card	Input	1	--
USB-A	Input	1	0.8m unshielded
USB-C	Input	1	--
AUX IN	Input	1	0.8m unshielded

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2.2. Description of Support Equipment

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Adapter	Apple	A2452	--	--	--

2.3. Description of Test Modes

No.	Test Mode Description
1	Standby Mode With Charging
2	TF Card Mode
3	USB Mode
4	AUX Mode

Note: All modes have been tested for EMI and the worst mode is finally reflected.

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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
Radiated emissions at frequencies above 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 ±U, where expended 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	Uc = ±2.9 dB
Radiated emissions at frequencies up to 1 GHz	Uc = ±3.9 dB
Radiated emissions at frequencies above 1 GHz	Uc = ±4.9 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 Interna tional Standard ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laborat ories (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

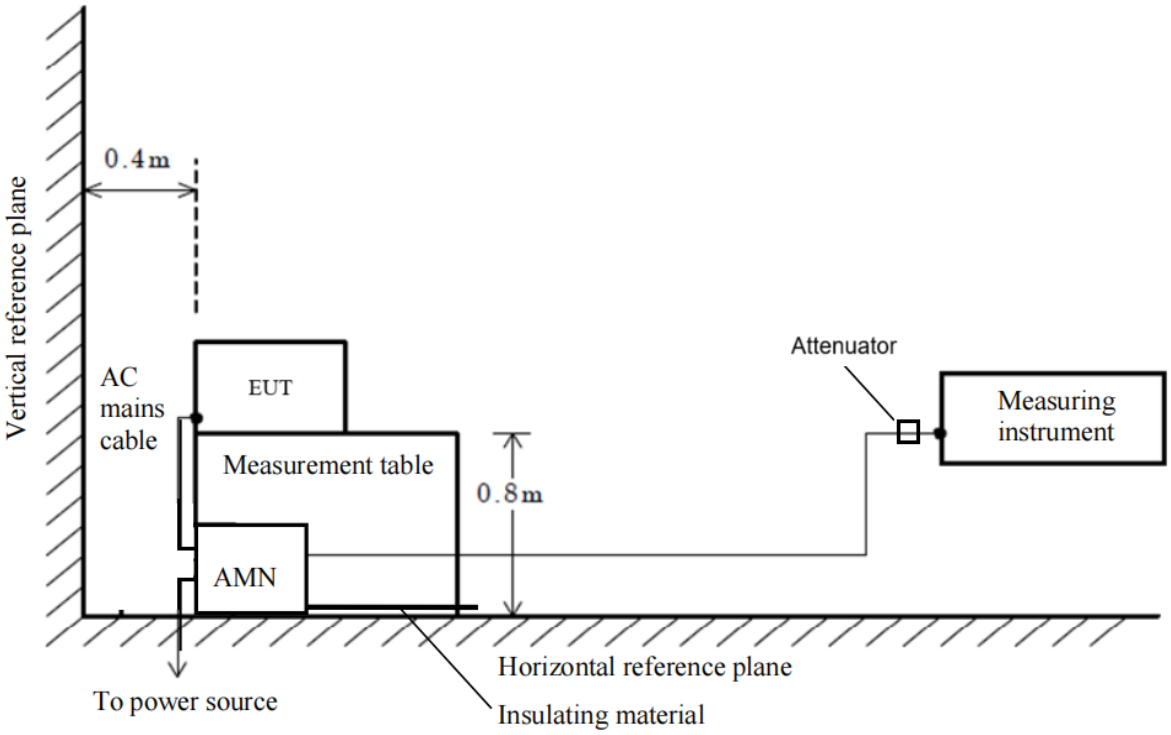
5.1. Requirements

Requirements for conducted emissions, low voltage AC mains port

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

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	2026-05-20	2027-05-19
AGC-EM-E023	Artificial Mains Network	R&S	ESH2-Z5	100086	2026-05-19	2027-05-18
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

a. 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.

b. Support equipment, if needed, was placed as per CISPR 16-2-1.

c. All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-1.

d. 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.

e. The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.

f. 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.

g. A conducted emission is calculated by the following equation:
   - Measurement Level (dBμV) = Receiver reading (dBμV) + Tansd (dB)
   - Transd(dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
   - Margin= Limit-Level

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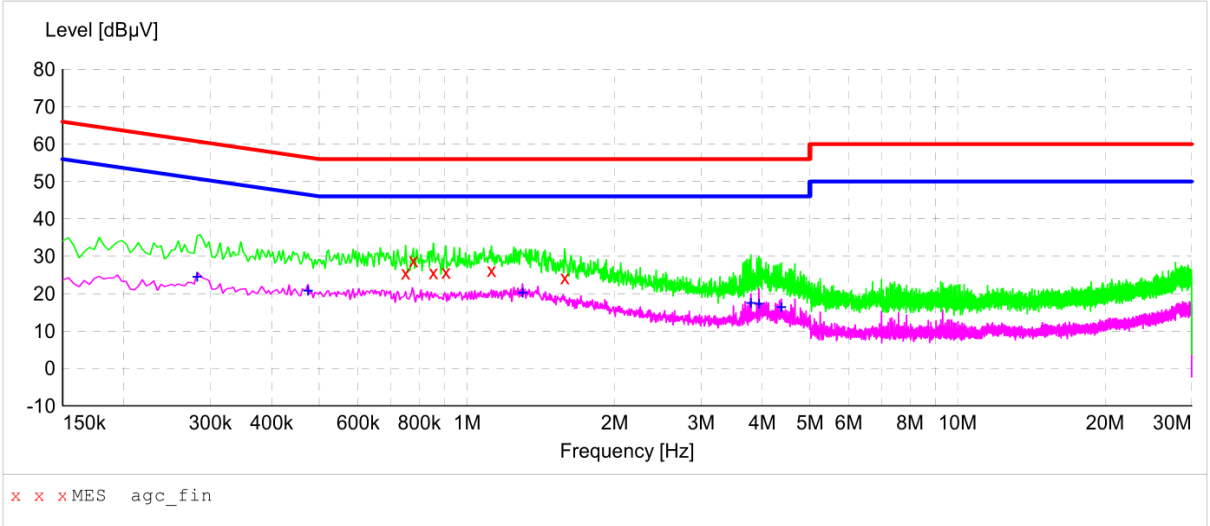
5.5. Test Summary

Test Engineer	Alex Yang	Temperature	22.1 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	52.6 %
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
0.750000	25.6	10.3	56.0	30.4	QP	L1
0.778000	28.9	10.3	56.0	27.1	QP	L1
0.854000	25.7	10.4	56.0	30.3	QP	L1
0.906000	25.8	10.4	56.0	30.2	QP	L1
1.122000	26.3	10.4	56.0	29.7	QP	L1
1.582000	24.3	10.4	56.0	31.7	QP	L1
0.282000	24.4	10.3	50.8	26.4	AV	L1
0.474000	20.7	10.3	46.4	25.7	AV	L1
1.298000	20.2	10.4	46.0	25.8	AV	L1
3.790000	17.4	10.6	46.0	28.6	AV	L1
3.938000	17.2	10.7	46.0	28.8	AV	L1
4.374000	16.3	10.7	46.0	29.7	AV	L1

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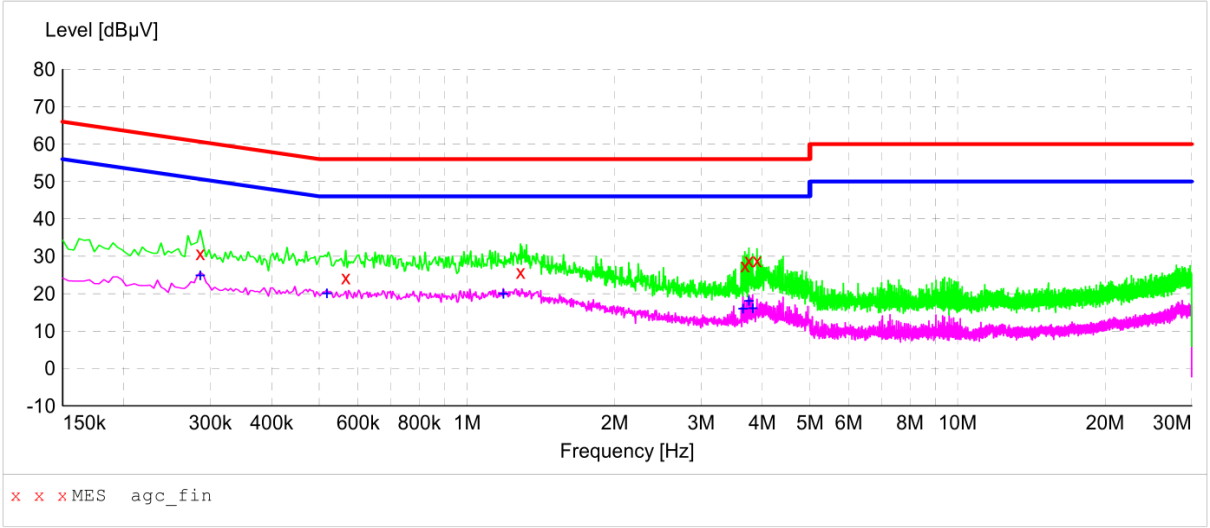
Test graph and data for Conducted Emission
Test Mode: Mode 1



Frequency [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector	Line
0.286000	30.8	10.3	60.6	29.8	QP	N
0.566000	24.3	10.3	56.0	31.7	QP	N
1.286000	25.8	10.4	56.0	30.2	QP	N
3.686000	27.5	10.6	56.0	28.5	QP	N
3.754000	28.9	10.6	56.0	27.1	QP	N
3.902000	28.9	10.7	56.0	27.1	QP	N
0.286000	24.8	10.3	50.6	25.8	AV	N
0.518000	20.0	10.3	46.0	26.0	AV	N
1.186000	19.9	10.4	46.0	26.1	AV	N
3.654000	15.9	10.6	46.0	30.1	AV	N
3.754000	18.0	10.6	46.0	28.0	AV	N
3.822000	16.0	10.7	46.0	30.0	AV	N

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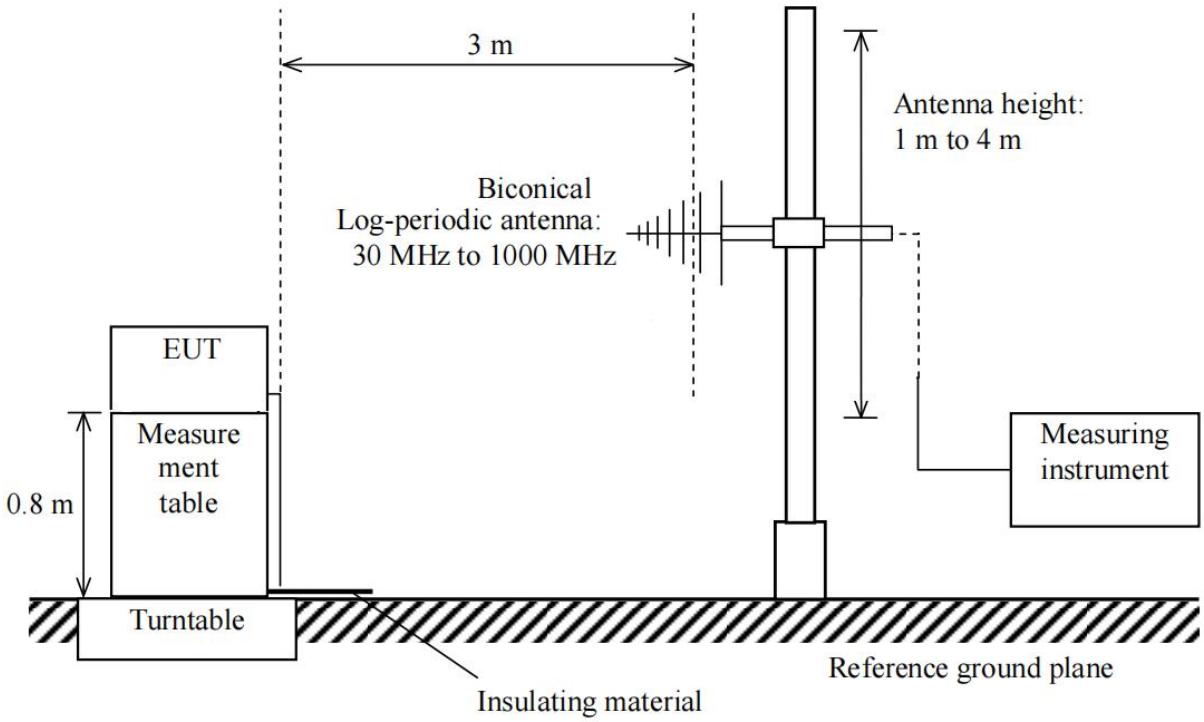
6. Measurement of Radiated Emissions at Frequencies up to 1 GHz

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(μV/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

a. 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.

b. Support equipment, if needed, was placed as per CISPR 16-2-3.

c. All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-3.

d. 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.

e. The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.

f. 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.

g. 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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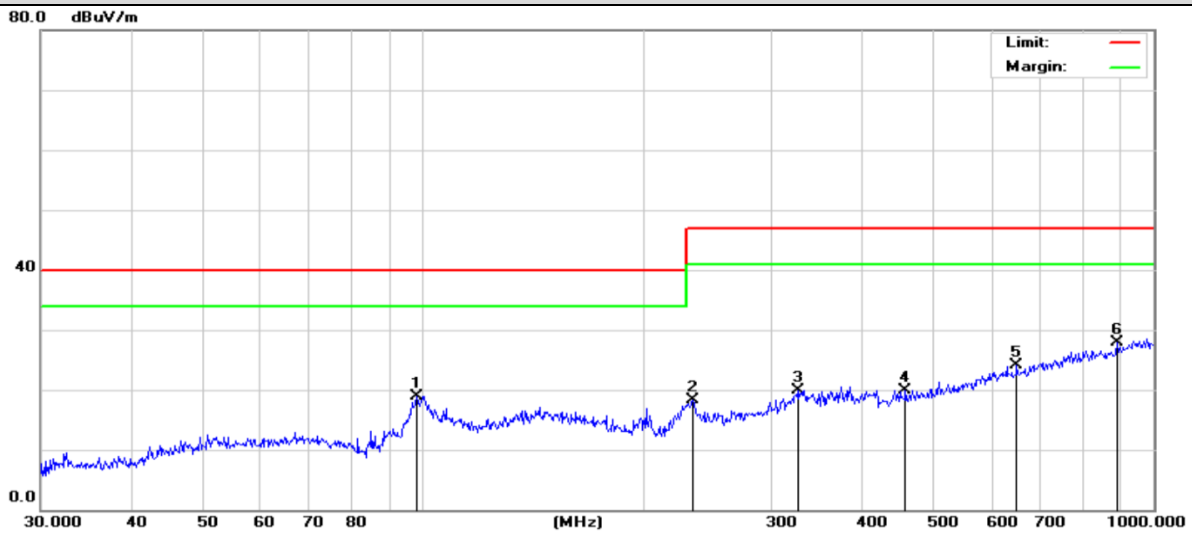
6.5. Test Summary

Test Engineer	Carl Duan	Temperature	19.9 °C
Test Date	2026-08-19	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	51.0 %
Verdict	Pass		

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	98.1419	18.97	-27.15	40.00	21.03	peak	Horizontal
2	234.1684	18.32	-23.85	47.00	28.68	peak	Horizontal
3	326.7395	19.95	-20.45	47.00	27.05	peak	Horizontal
4	457.5073	19.87	-19.60	47.00	27.13	peak	Horizontal
5	649.6597	24.01	-15.61	47.00	22.99	peak	Horizontal
6	890.7278	27.82	-11.95	47.00	19.18	peak	Horizontal

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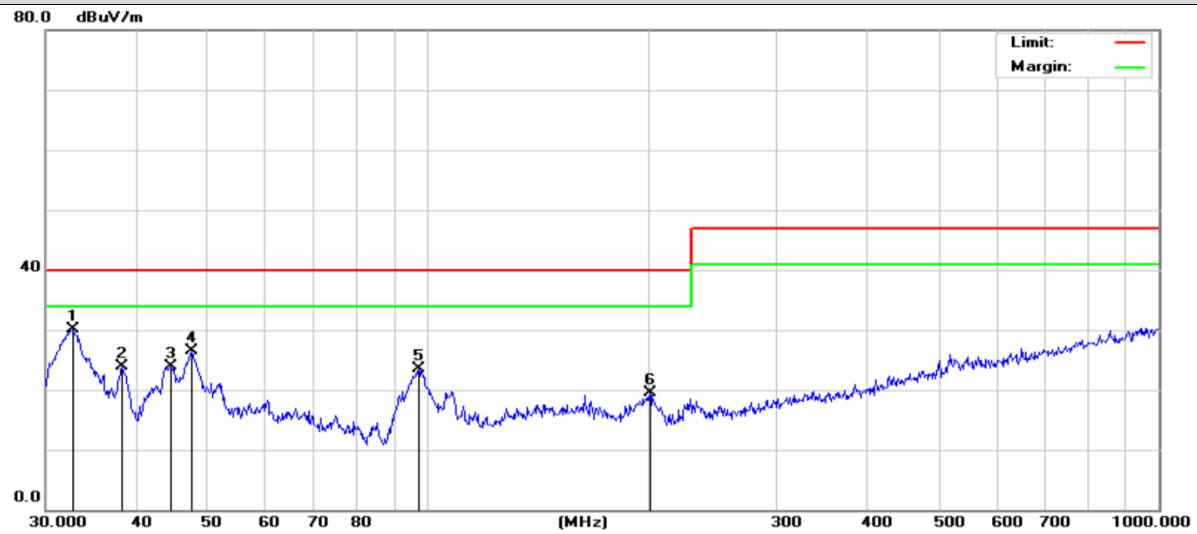
Test graph and data for Radiated Emission up to 1GHz
Test Mode: Mode 1



No.	Frequency [MHz]	Level [dBμV/m]	Factor dB	Limit [dBμV/m]	Margin dB	Detector	Polarity
1	32.6340	30.17	-23.78	40.00	9.83	peak	Vertical
2	38.0783	24.00	-22.90	40.00	16.0	peak	Vertical
3	44.5868	23.91	-22.08	40.00	16.09	peak	Vertical
4	47.4918	26.43	-21.94	40.00	13.57	peak	Vertical
5	97.1148	23.41	-26.37	40.00	16.59	peak	Vertical
6	201.3930	19.48	-23.95	40.00	20.52	peak	Vertical

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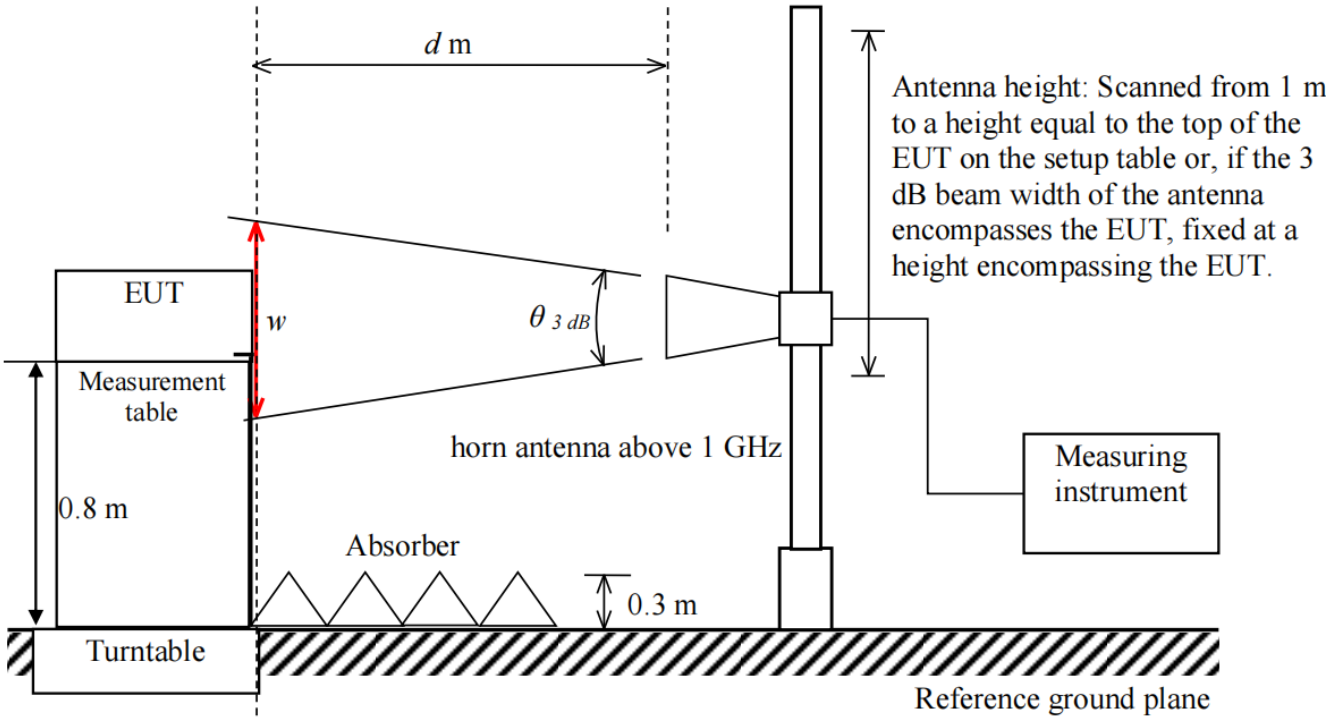
7. Measurement of Radiated Emissions at Frequencies Above 1 GHz

7.1. Requirements

Requirements for radiated emissions at frequencies above 1 GHz at 3m distance

Test facility	Detector type/ bandwidth	Frequency Range (MHz)	Limits dB(μV/m)	Measurement specifications
FSOATS	Peak/ 1MHz	1000 to 6000	74	Instrumentation: CISPR 16-1-1, Clauses 4, 6, 7 Antennas: CISPR 16-1-4, Clause 4.6 Test Site: CISPR 16-1-4, Clause 7 Method: CISPR 16-2-3, Clause 7.6
	Average/ 1MHz	1000 to 6000	54	

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-E061	Signal Analyzer	Keysight	N9010A	MY53470504	2026-05-20	2027-05-19
AGC-EM-E102	Antenna	ETS	3117	00154520	2026-05-22	2027-05-21
AGC-EM-E146	Preamplifier	ETS	3117PA	00246148	2026-07-14	2028-07-13

Measuring Software

Software No.	Software Name	Manufacturer	Details
AGC-EM-S004	TS+[JS32-RE]	Tonscend	For EMC Measurement, Version 4.0.0.0

7.4. Configuration of the EUT and method of measurement

a. 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.

b. Support equipment, if needed, was placed as per CISPR 16-2-3.

c. All I/O cables were positioned to simulate typical actual usage as per CISPR 16-2-3.

d. 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 scanned from 1 m to a height equal to the top of the EUT on the setup table or, if the 3 dB beam width of the antenna encompasses the EUT, fixed at a height encompassing the EUT. The cables were laid out to attain the maximum level of radiated emissions.

e. The more description of the tests, the test methods, and the test set-ups are given in the applicable test standard.

f. 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.

g. 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) – Amplifier Gain(dB)
   - Margin= Limit-Level

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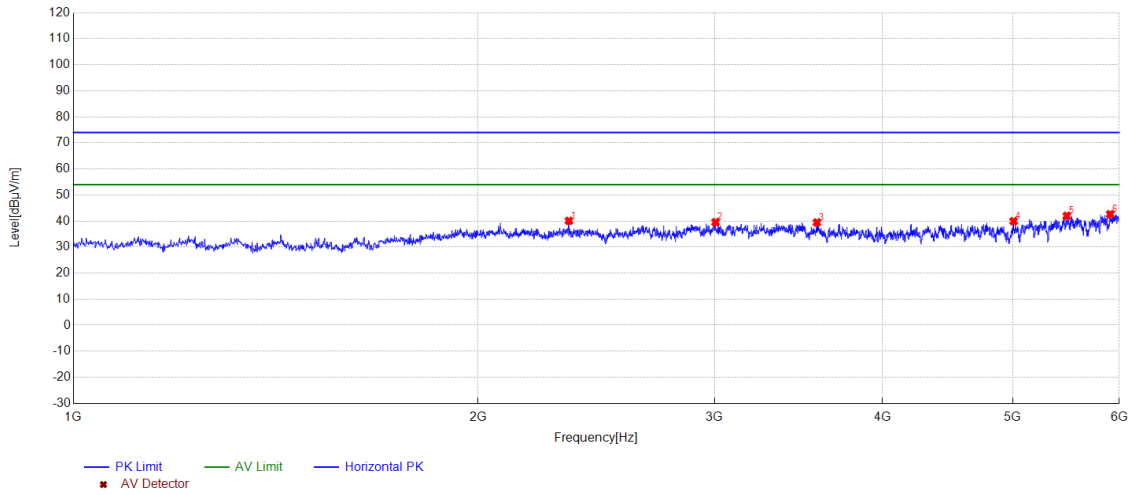
7.5. Test Summary

Test Engineer	Carl Duan	Temperature	19.6 °C
Test Date	2026-08-19	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	52.3 %
Verdict	Pass		

Test graph and data for Radiated Emission above 1GHz

Test Mode: Mode 1



No.	Frequency [MHz]	Level [dBµV/m]	Factor dB	Limit [dBµV/m]	Margin dB	Detector	Polarity
1	2337.267454	40.08	-12.31	74.00	33.92	Peak	Horizontal
2	3004.40088	39.54	-11.17	74.00	34.46	Peak	Horizontal
3	3574.514903	39.45	-10.53	74.00	34.55	Peak	Horizontal
4	5006.80136	39.93	-8.61	74.00	34.07	Peak	Horizontal
5	5484.896979	41.98	-6.95	74.00	32.02	Peak	Horizontal
6	5907.981596	42.61	-5.12	74.00	31.39	Peak	Horizontal

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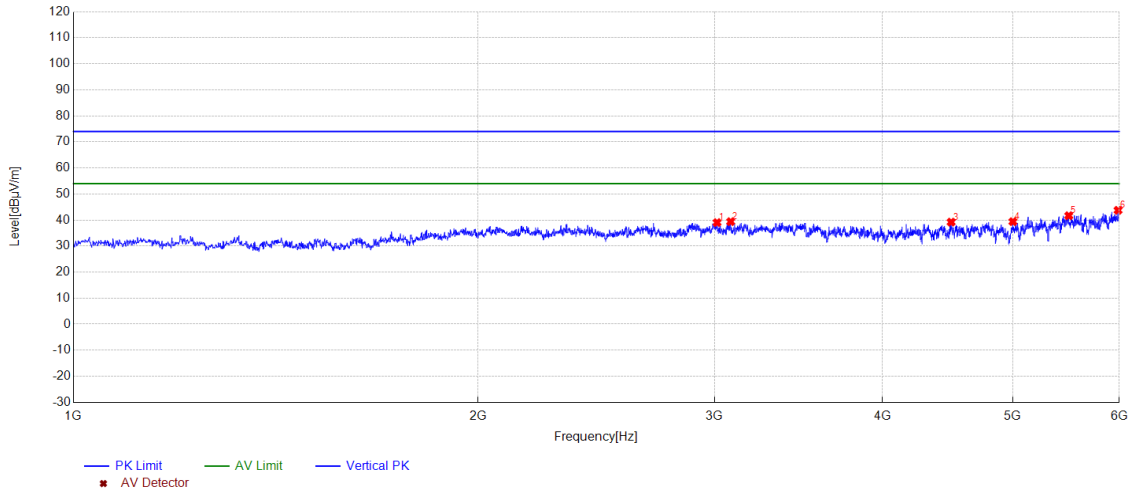
Test graph and data for Radiated Emission above 1GHz
Test Mode: Mode 1



No.	Frequency [MHz]	Level [dBµV/m]	Factor dB	Limit [dBµV/m]	Margin dB	Detector	Polarity
1	3012.402481	39.03	-11.15	74.00	34.97	Peak	Vertical
2	3083.416683	39.38	-11.06	74.00	34.62	Peak	Vertical
3	4498.69974	39.20	-9.13	74.00	34.80	Peak	Vertical
4	5000.80016	39.38	-8.64	74.00	34.62	Peak	Vertical
5	5502.90058	41.66	-6.88	74.00	32.34	Peak	Vertical
6	5987.9976	43.74	-4.77	74.00	30.26	Peak	Vertical

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8. Measurement of Harmonic Current Emissions

8.1. Requirements

Applicable test standard(s): EN IEC 61000-3-2:2019+A1:2021+A2:2024

Limits of Harmonic Current Emissions

Harmonic order *h*	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⩽*h*⩽39(odd harmonics only)	2.25/*h*	3.375/*h*	3	3.85/*h*	2.25/*h*
2	1.08	1.62	2	Not applicable	Not applicable
4	0.43	0.645	Not applicable		
6	0.30	0.45			
8⩽*h*⩽40(even harmonics only)	1.84/*h*	2.76/*h*			

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.

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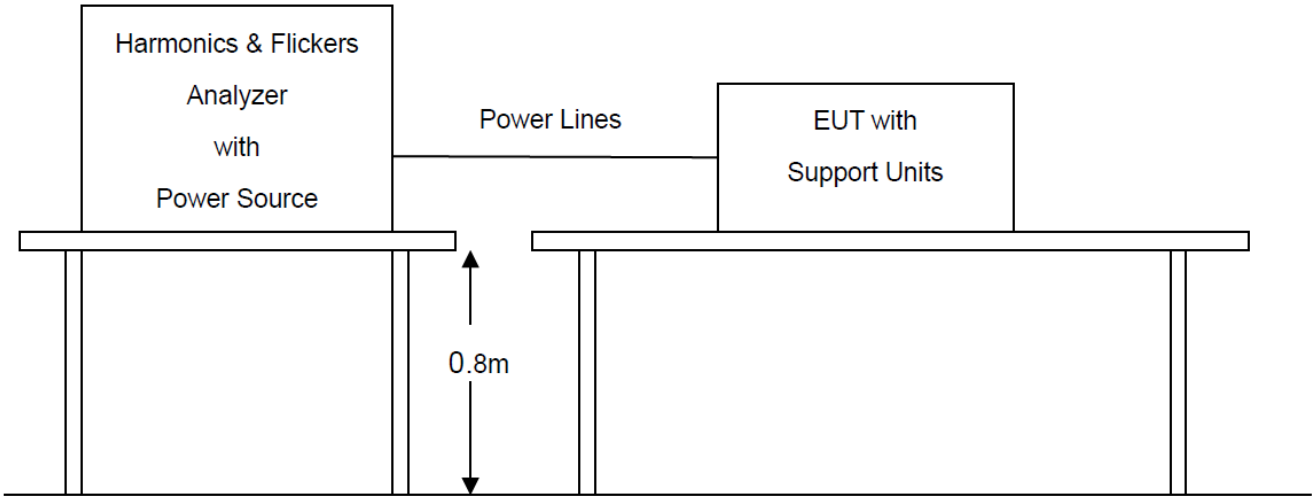
8.2. Block Diagram of Test Setup



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	2026-05-19	2027-05-18
AGC-EM-E015	AC Source	Schaffner	NSG 1007	56825	2026-05-19	2027-05-18

Measuring Software

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

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 had been as defined in the applicable test standard.

b. 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.

c. 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.

8.5. 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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9. Measurement of Voltage Fluctuations and Flicker

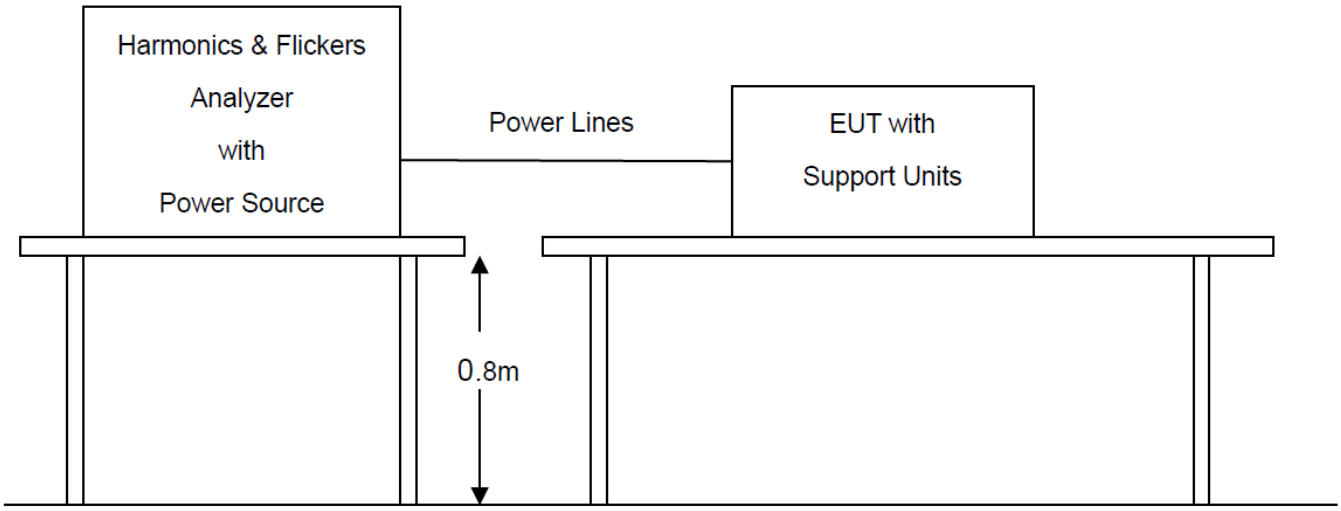
9.1. Requirements

Applicable test standard(s): EN 61000-3-3:2013+A1:2019+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	⩽3.3%
d_{max}	the maximum relative voltage change	☒⩽4% ☐⩽6% ☐⩽7%
☒P_{st}	short-term flicker severity	⩽1.0
☐P_{lt}	long-term flicker severity	⩽0.65

9.2. Block Diagram of Test Setup



9.3. 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	2026-05-19	2027-05-18
AGC-EM-E015	AC Source	Schaffner	NSG 1007	56825	2026-05-19	2027-05-18

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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9.4. 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.

9.5. Test Summary

Test Engineer	Alex Yang	Temperature	22.1 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Worst Mode	Mode 1	Relative Humidity	52.6 %
Verdict	Pass		

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

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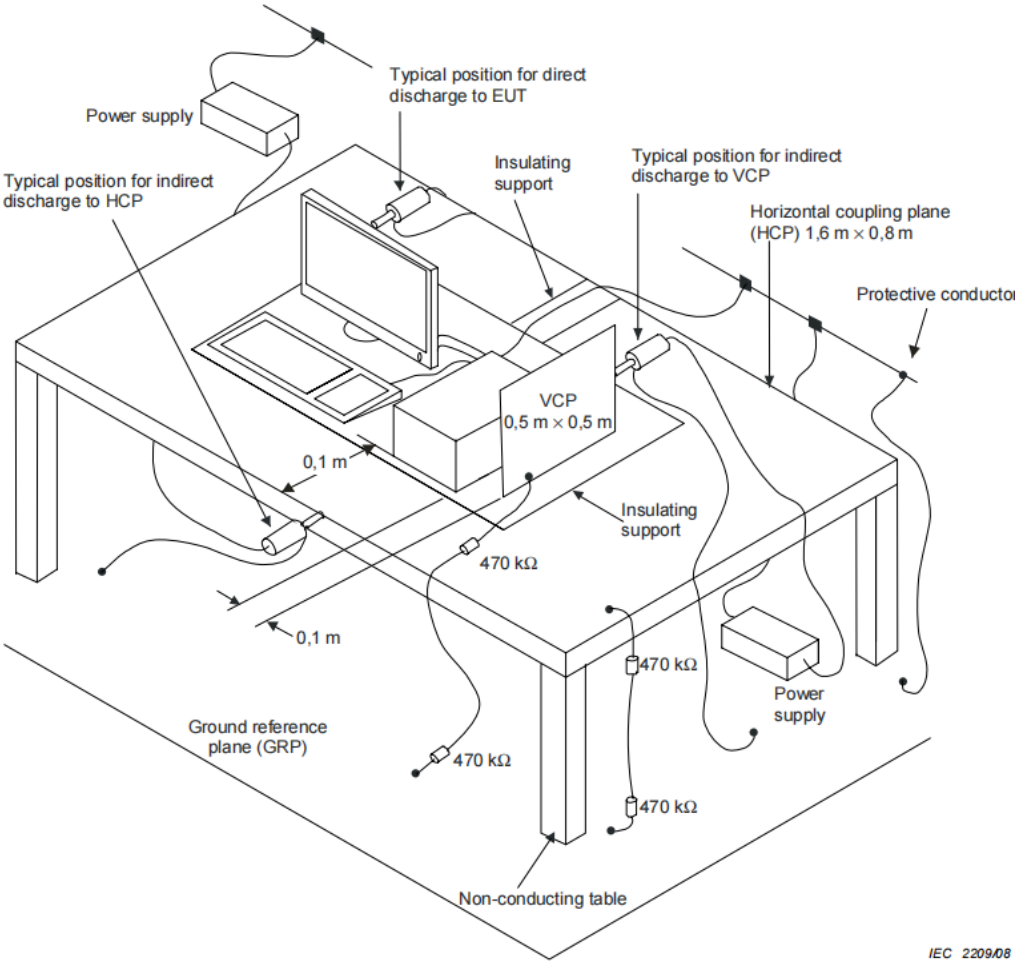
10. Measurement of Electrostatic discharge

10.1. 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

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-E013	ESD Simulator	Schaffner	NSG 438	782	2025-11-03	2026-11-02

Measuring Software

Software No.	Software Name	Manufacturer	Details
--	--	--	--

10.4. Configuration of the EUT and method of measurement

a. Electrostatic discharges were applied only to those points and surfaces of the EUT that are accessible to users during normal operation.
b. The test was performed with at least ten single discharges on the pre-selected points in the most sensitive polarity.
c. The time interval between two successive single discharges was at least 1 second.
d. 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.
e. Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.
f. 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.
g. 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.
h. 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.
i. 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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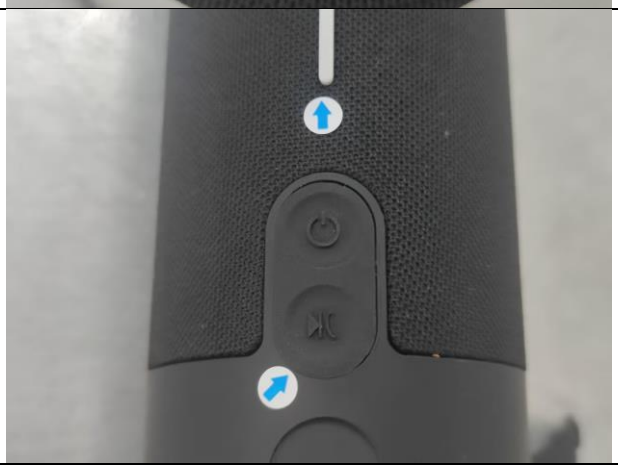
10.5. Test Summary

Test Engineer	Alex Yang	Temperature	22.3 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Test Mode	Mode 1/2/3/4	Relative Humidity	53.1 %
Verdict	Pass		

Voltage	Coupling	Observation	Performance
±4kV	Contact Discharge	No degradation of performance	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

Discharge Point:	
Red line: Contact discharge Blue line: Air Discharge	
	N/A

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11. Measurement of Radio-Frequency Electromagnetic Field

11.1. 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 (±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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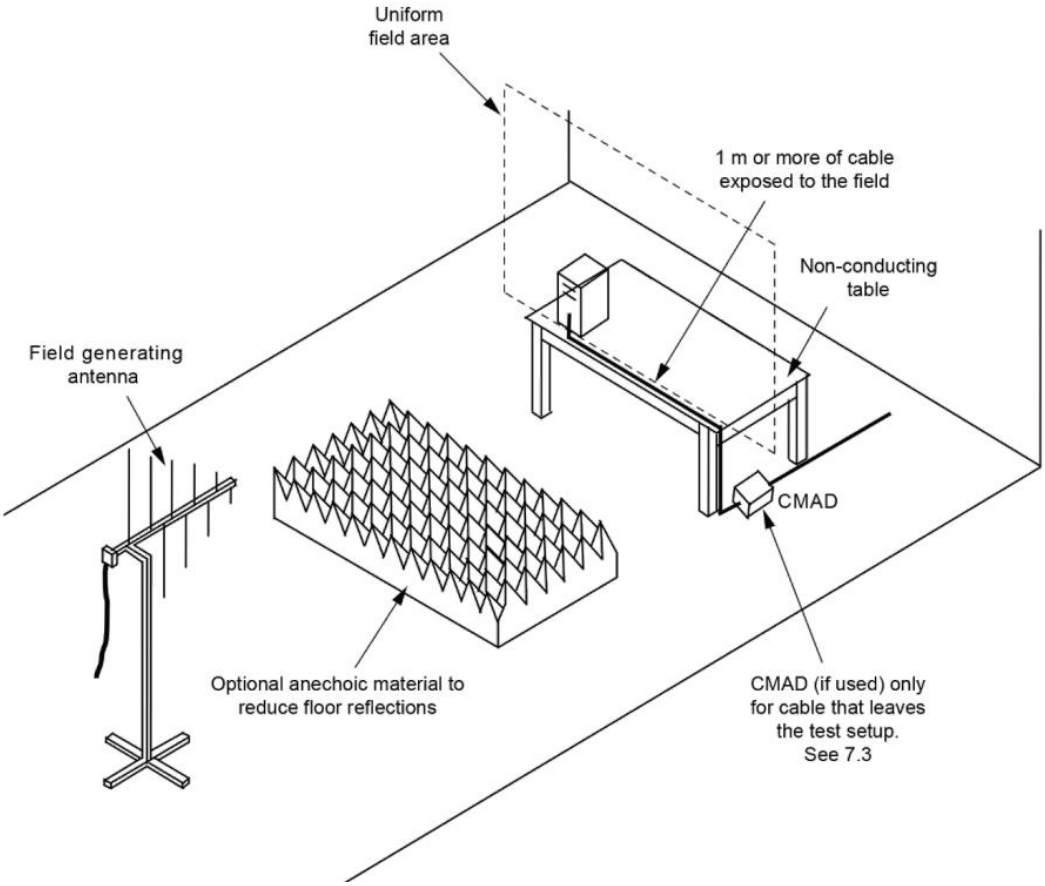
11.2. Block Diagram of Test Setup



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11.3. Equipment Details

Measuring Instruments

Instruments No.	Instruments	Manufacturer	Model	S/N	Cal. Date	Cal. Due
AGC-EM-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	2026-07-14	2027-07-13
AGC-EM-E028	Wideband Antenna	ETS-LINDGREN	3142C	60447	N/A	N/A
AGC-EM-E029	Antenna	ETS	3117	34609	2026-03-14	2027-03-13
AGC-EM-E035	Power Probe	R&S	URV5-Z4	100124	2025-03-24	2027-03-23
AGC-EM-E040	Directional Coupler	Werlatone	C5571-10	99463	2026-01-13	2028-01-12
AGC-EM-E041	Directional Coupler	Werlatone	C6026-10	99482	2026-01-13	2028-01-12
AGC-EM-E080	Power Amplifier	Rflight	NTWPA-2560100	17063183	2026-07-14	2027-07-13
AGC-EM-E115	Signal Generator	AGILENT	N5182A	MY49060745	2026-01-13	2027-01-12
AGC-EM-E160	Power Amplifier	TESEQ	CBA3G-100	T43913	2026-05-19	2027-05-18

Measuring Software

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

11.4. Configuration of the EUT and method of measurement

a. 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.

b. 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.

c. The test shall be performed according to the above requirements and block diagram which shall specify the test setup.

d. 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	Carl Duan	Temperature	22.0 °C
Test Date	2026-08-19	Air Pressure	985 Mbar
Test Mode	Mode 1/2/3/4	Relative Humidity	56.8 %
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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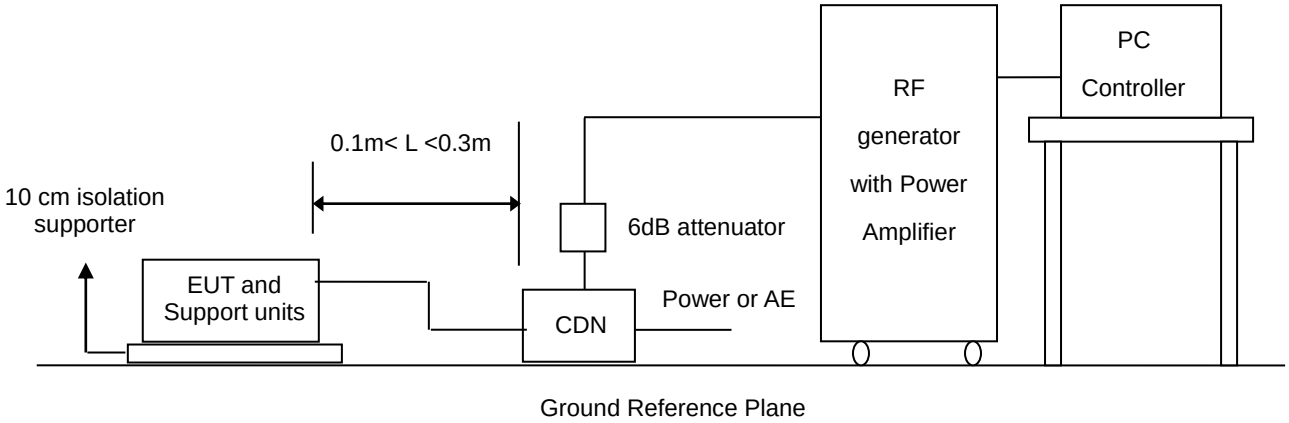
12. Measurement of Radio-frequency common mode

12.1. 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:
a. Applicable only to ports which, according to the manufacturer's specification, supports cable lengths greater than 3 m.
b. 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.
c. 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.

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-A048	Attenuator	ZHINAN	E-002	N/A	2026-07-14	2028-07-13
AGC-EM-E005	Power Meter	R&S	NRVD	8323781027	2025-03-24	2027-03-23
AGC-EM-E017	Power Amplifier	AR	75A250	18464	2026-07-14	2027-07-13
AGC-EM-E035	Power Probe	R&S	URV5-Z4	100124	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	AGILENT	N5182A	MY49060745	2026-01-13	2027-01-12
AGC-EM-E161	CDN	3C TEST	CDN M2M3	ES064002624028	2026-07-14	2027-07-13

Measuring Software

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

12.4. Configuration of the EUT and method of measurement

a. The Equipment Under Test (EUT) shall be tested within its intended operating and climatic conditions.

b. 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.

c. The test shall be performed according to the above requirements and block diagram which shall specify the test setup.

d. 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	Alex Yang	Temperature	21.5 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	54.2 %
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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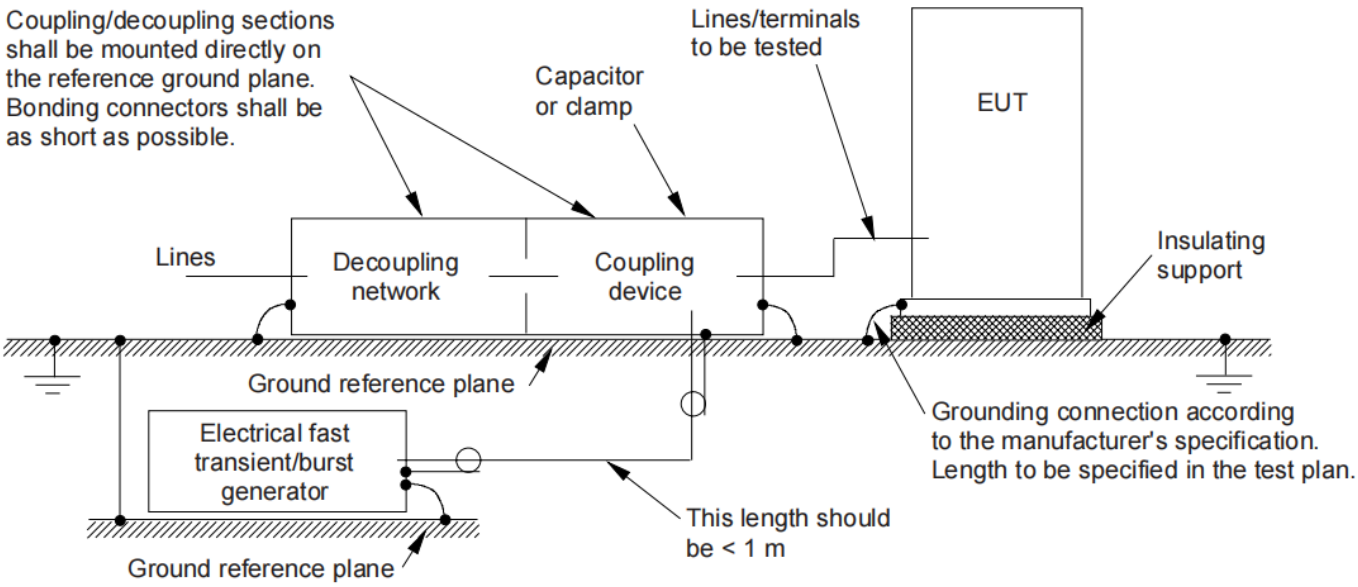
13. Measurement of Fast Transients

13.1. 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.

13.2. Block Diagram of Test Setup



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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	2026-05-19	2027-05-18

Measuring Software

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

13.4. Configuration of the EUT and method of measurement

a. 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 ± 0,01 m thick.

b. The test generator and the coupling/decoupling network shall be placed directly on, and bonded to, the ground reference plane.

c. 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.

d. 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.

e. Either a direct coupling network or a capacitive clamp shall be used for the application of the test voltages.

f. 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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13.5. Test Summary

Test Engineer	Alex Yang	Temperature	22.9 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	51.5 %
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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14. Measurement of Surges

14.1. 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) µs	10/700 (5/320) µs	1.2/50 (8/20) µs	1.2/50 (8/20) µs
Number of impulses	Five positive and five negative impulses			
Time between successive impulses	1 min			

Notes:

a. 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.

b. Applicable only to ports which, according to the manufacturer's specification, supports cable lengths greater than 3 m.

c. Surges are applied with primary protection fitted. Where possible, use the actual primary protector intended to be used in the installation.

d. Where the surge coupling network for the 10/700 (5/320) µs waveform affects the functioning of high speed data ports, the test shall be carried out using a 1.2/50 (8/20) µs waveform and appropriate coupling network.

e. 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.

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

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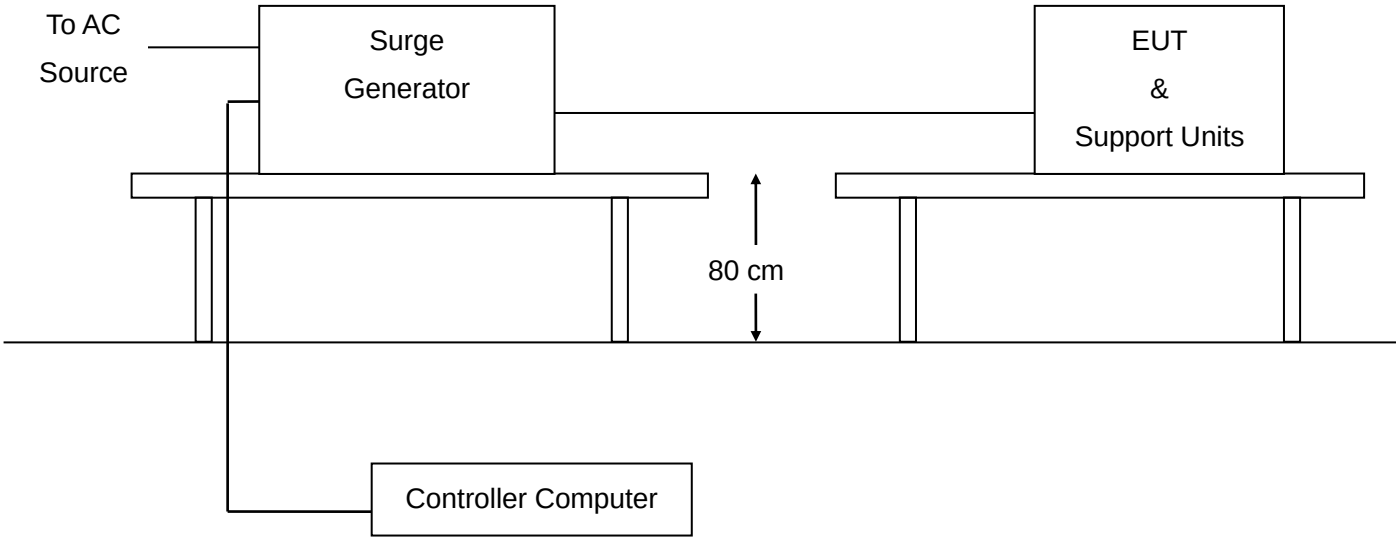
14.2. Block Diagram of Test Setup



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	2026-05-19	2027-05-18

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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14.4. Configuration of the EUT and method of measurement

a. Verification shall be performed. It is preferable to perform the verification prior to the test.

b. The test shall be performed according to the above requirements and block diagram which shall specify the test setup.

c. When testing line-to-ground, the lines are tested individually in sequence, if there is no other specification.

d. 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.

e. 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	Alex Yang	Temperature	22.9 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	51.5 %
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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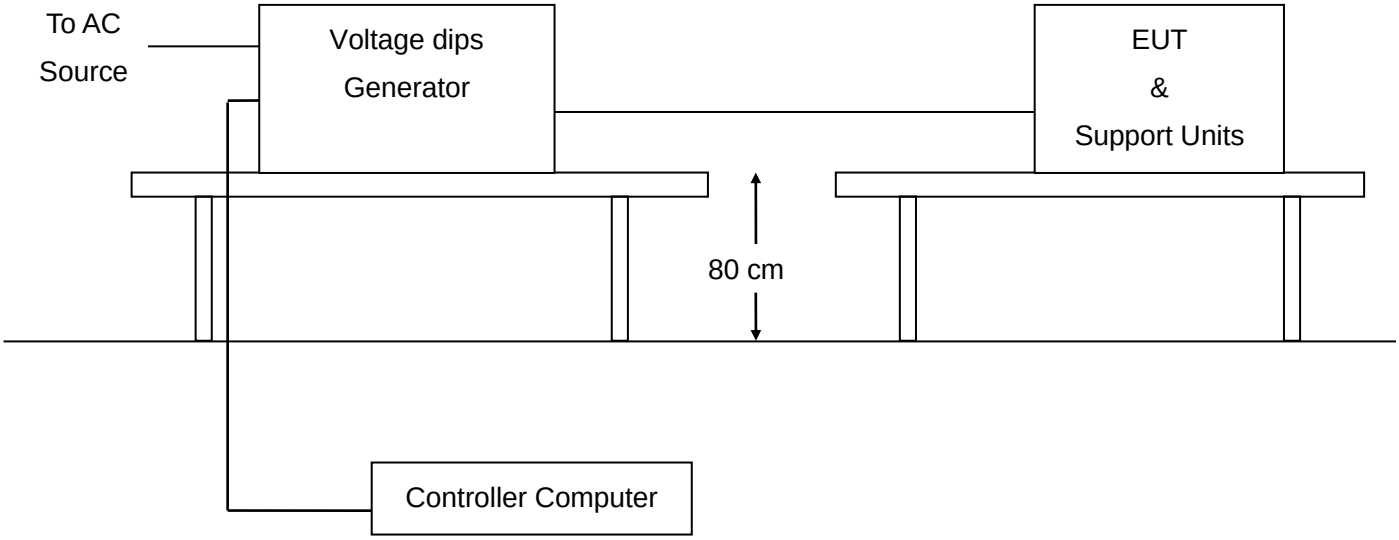
15. Measurement of Voltage dips and interruptions

15.1. 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:
a. 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.
b. Apply at only one supply frequency of the EUT.

15.2. Block Diagram of Test Setup



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15.3. 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	2026-05-19	2027-05-18

Measuring Software

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

15.4. Configuration of the EUT and method of measurement

a. The test shall be performed according to the above requirements and block diagram which shall specify the test setup.

b. 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.

15.5. Test Summary

Test Engineer	Alex Yang	Temperature	22.9 °C
Test Date	2026-08-18	Air Pressure	985 Mbar
Test Mode	Mode 1	Relative Humidity	51.5 %
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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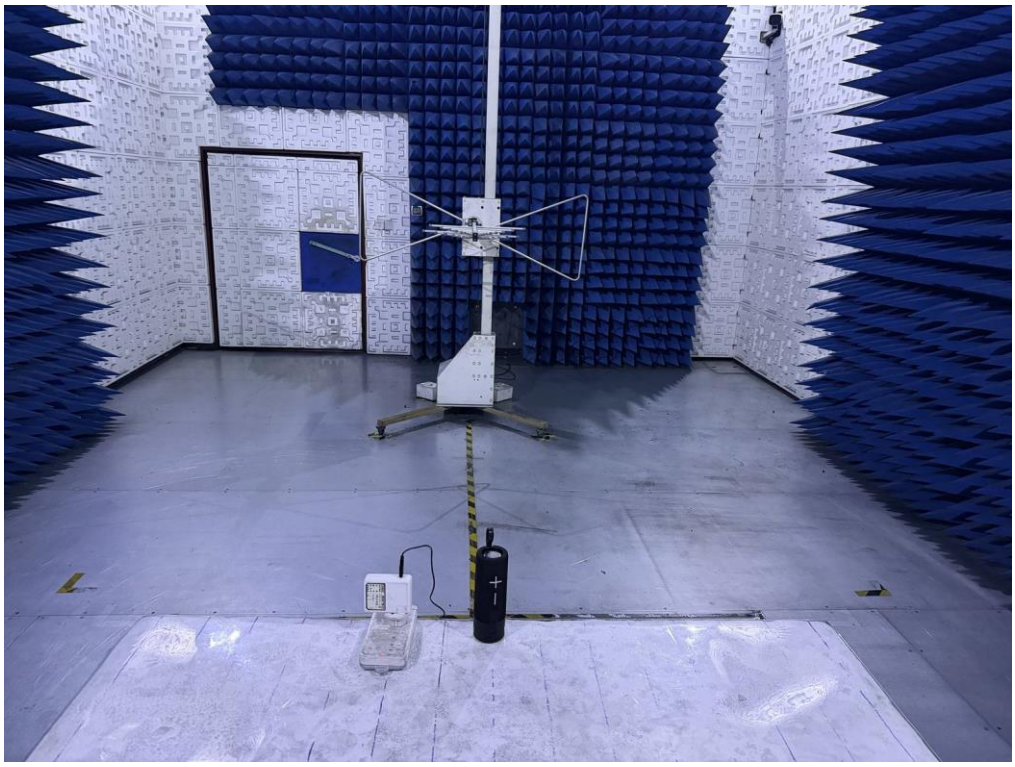
16. Photographs of Test Setup

Conducted emissions from the AC mains power ports



Radiated emissions at frequencies up to 1 GHz

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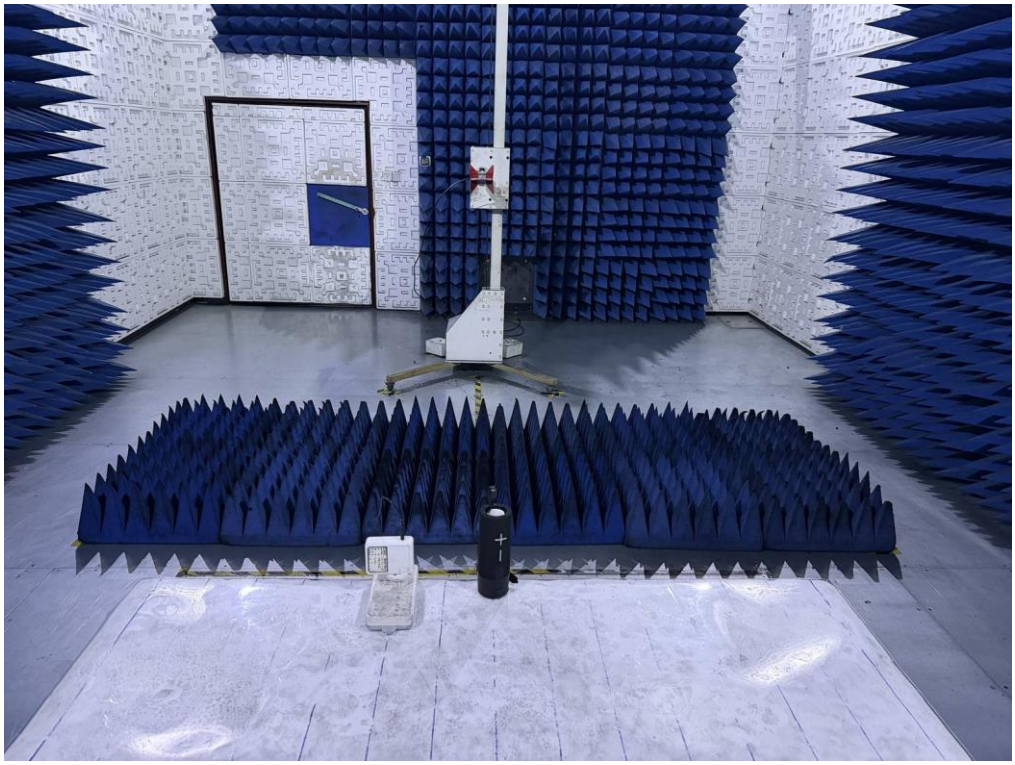

Radiated emissions at frequencies above 1 GHz

Harmonic current emissions & Voltage fluctuations and flicker

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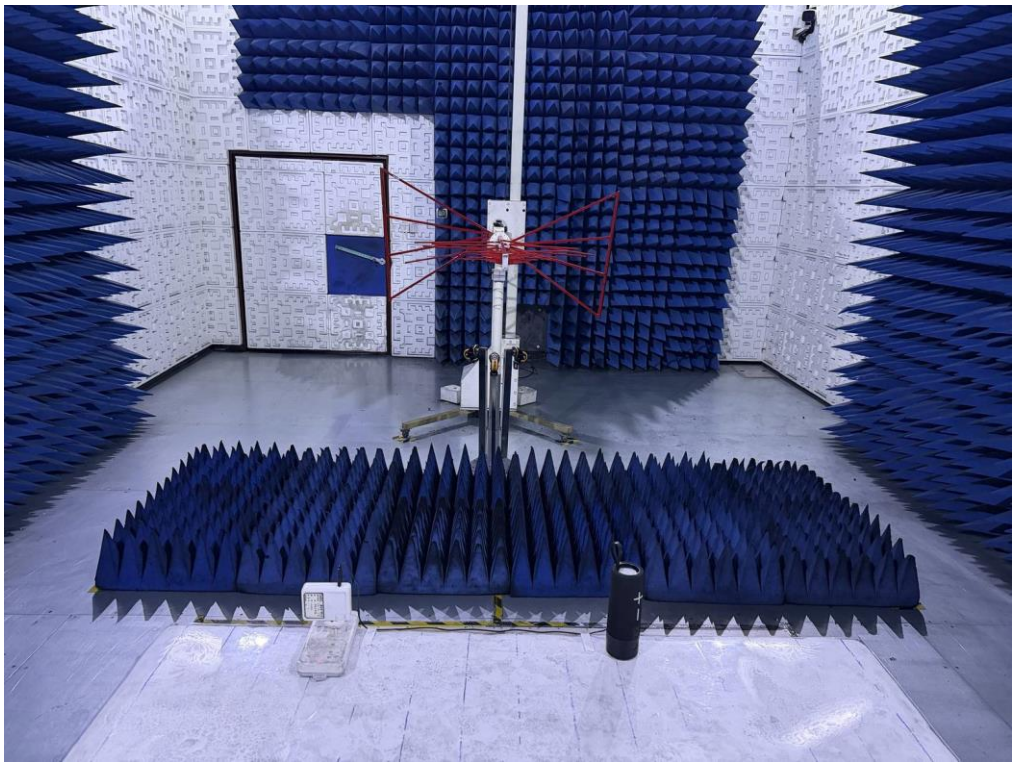
Electrostatic discharge



Radio-frequency electromagnetic field up to 1 GHz

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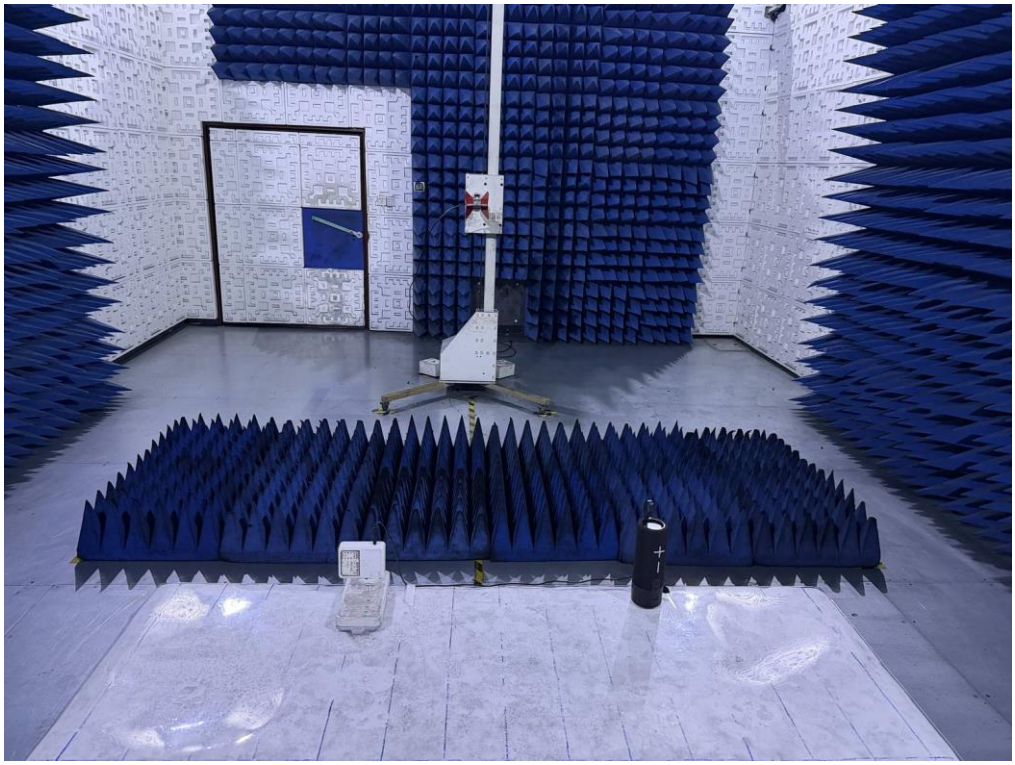

Radio-frequency electromagnetic field above 1 GHz

Radio-frequency common mode at the AC mains power ports

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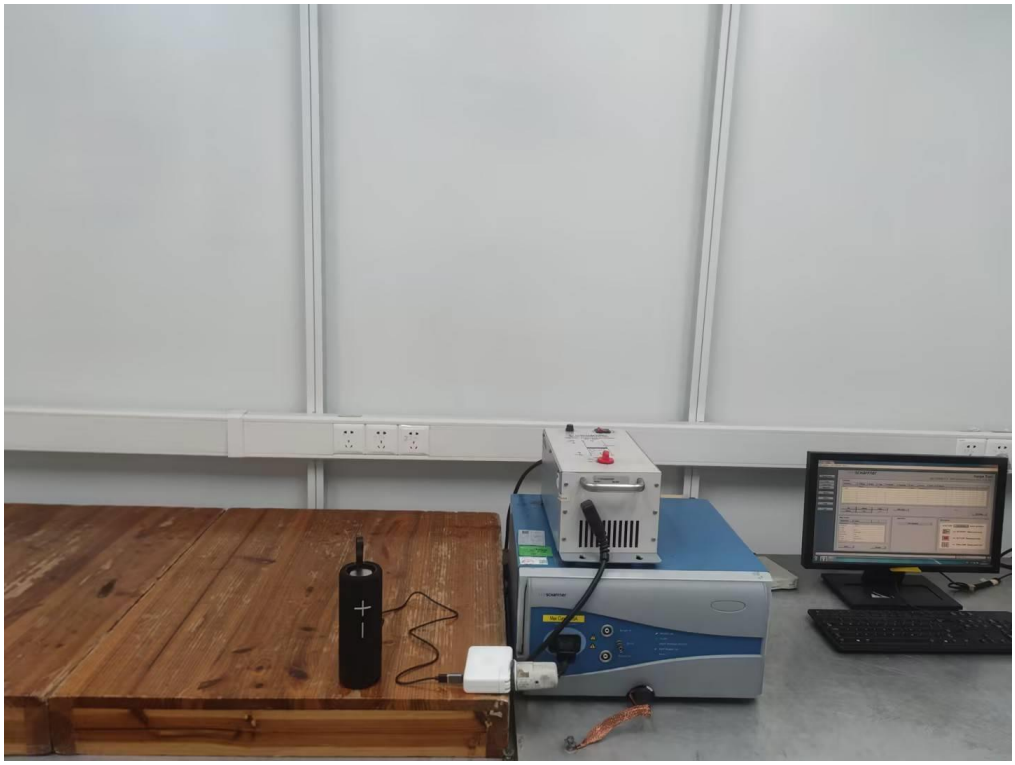

Fast transients/Surges/ Voltage dips at the AC mains power ports

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17. Photographs of EUT

Refer to the Report No.: AGC05443260822AP01

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
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.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.