

# TEST REPORT

**Application No.:** GZCR2211001461AT  
**Applicant:** POGS B.V.  
**Address of Applicant:** Hendrik Andriessenlaan 42 2102 CZ Heemstede  
**Manufacturer:** POGS B.V.  
**Address of Manufacturer:** Hendrik Andriessenlaan 42 2102 CZ Heemstede  
**Factory:** Minami Acoustics Limited  
**Address of Factory:** No.13, Maonan Road, Torch Development District, Zhongshan City, Guangdong Province, P.R. China.

**Equipment Under Test (EUT):**

**EUT Name:** Active Noise Cancelling Headphones  
**Model No.:** The Turtle  
**Trade Mark:** POGS  
**Standard(s) :** EN 55032: 2015+A11:2020+A1:2020  
 EN 55035: 2017+A11:2020  
 EN IEC 61000-3-2: 2019+A1:2021  
 EN 61000-3-3: 2013+ A1:2019+A2:2021

**Date of Receipt:** 2022-11-15  
**Date of Test:** 2023-04-20 to 2023-04-25  
**Date of Issue:** 2023-06-28

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

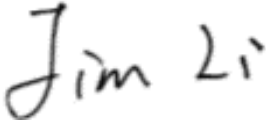



Ricky Liu  
 Manager



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Revision Record			
Version	Report No.	Date	Remark
01	GZCR221100146101	2023-06-28	Original

Authorized for issue by:			
	 <hr/> <b>Jim Li/Project Engineer</b>		
	 <hr/> <b>Jerry Chan/Reviewer</b>		



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## 2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Power Port (150kHz-30MHz)	EN 55032: 2015+A11:2020+A1:2020	EN 55032: 2015+A11:2020+A1:2020	Class B	Pass
Radiated Emissions (30MHz-1GHz)		EN 55032: 2015+A11:2020+A1:2020	Class B	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3: 2013+ A1:2019+A2:2021	EN 61000-3-3: 2013+ A1:2019+A2:2021	Clause 5	Pass
Harmonic Current Emission	EN IEC 61000-3-2: 2019+A1:2021	EN IEC 61000-3-2: 2019+A1:2021	Class A	Pass

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN 55035: 2017+A11:2020	EN 61000-4-2: 2009	±4kV Contact Discharge; ±2kV, ±4kV, ±8kV Air Discharge	Pass
Radiated Immunity (80MHz-1GHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz)		EN IEC 61000-4-3: 2020	3V/m, 80%, 1kHz Amp. Mod.	Pass
Electrical Fast Transients & Burst at AC Power Port		EN 61000-4-4: 2012	1kV; 5/50ns Tr/Td; 5kHz Repetition Frequency	Pass
Surge at AC Power Port		EN 61000-4-5: 2014 +A1: 2017	1,2/50µs Tr/Td; 1kV Line to Line	Pass
Conducted Immunity at AC Power Port (150kHz-80MHz)		EN 61000-4-6: 2014	0,15 to 10MHz 3Vrms (emf), 10 to 30MHz 3V to 1Vrms(emf), 30 to 80MHz 1Vrms(emf), 80%, 1kHz Amp. Mod.	Pass
Voltage Dips and Interruptions		EN IEC 61000-4-11:2020	<5% residual voltage for 0,5cycle, 70% residual voltage for 25cycles, <5% residual voltage for 250cycles	Pass

**Note:**

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: Powered by built-in battery as below for normal working:  
 Model: 802030  
 Rated: DC 3.7 V, 420mAh, 1.554Wh  
 DC 5 V for charging

Test voltage: AC 230 V, 50 Hz for charging powered by AC/DC adapter refer to section 4.2

Cable(s): AUX in ports with unshielded cables (0.6 m)  
 Type C charging ports with unshielded cables (0.6 m)

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPod nano	APPLE	A1446	DCYJRBVJF0GP
AC/DC Adapter	MEAN WELL	Model: RSP-75-5; Input: AC 100-240V, 0.9A, 50/60Hz; Output: DC 5V, 15A max.	/

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Power Port (150kHz-30MHz)	2.76dB (150kHz to 30MHz)
Radiated Emissions (30MHz-1GHz)	5.00dB (30MHz-1GHz):3m; 4.38dB (30MHz-1GHz):10m

### 4.4 Test Location

All tests were performed at:  
 SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
 Guangzhou, China 510663  
 Tel: +86 20 82155555 Fax: +86 20 82075059  
 No tests were sub-contracted.



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#### 4.5 Test Facility

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None

#### 4.8 EMS Monitor

Visual: Monitor whether the charging indicator is normal.

Audio: Monitor whether the music plays normally the EUT.

Other: Monitor the Spectrum Analyser for any unintentional responses



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## 5 Equipment List

Conducted Emissions at Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2022-08-24	2023-08-23
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2022-09-09	2023-09-08
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2022-05-20	2023-05-19
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2022-10-16	2025-10-15
Chamber cable	HangTianXing	N/A	EMC0542	2022-08-24	2023-08-23
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2022-06-21	2023-06-20
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2022-06-19	2025-06-18

Voltage Fluctuations and Flicker					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Digital power analyzer for harmonics & flicker testing	EMTEST	DPA 500N	EMC2235	2023-04-21	2024-04-20
Programmable multifunctional ac/dc power source	EMTEST	NETWAVE 7-400	EMC2234	2023-04-21	2024-04-20
NET.Control	EMTEST	Ver 3.2.0	GZE100-80	N/A	N/A

Electrical Fast Transients & Burst at AC Power Port					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Oscilloscope	Tektronix	TDS3052C	EMC2055	2022-11-17	2023-11-16
EMC Immunity Test System	TESEQ AG	NSG 3060&CDN306 1&INA 6502 CIB	EMC2072	2022-12-16	2023-12-15
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A



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<b>Radiated Immunity (80MHz-1GHz,1800MHz,2600MHz,3500MHz,5000MHz)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
743 Compact 3m Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2022-10-16	2025-10-15
Monitor System	Mitsubish Corp.	M-0552AB	EMC0909	N/A	N/A
Open Switch And Control Unit	Rohde & Schwarz	OSP130	EMC2090	N/A	N/A
Broadband Amplifier (80MHz~1GHz/250W)	Rohde & Schwarz	BBA150	EMC2091	2022-12-16	2023-12-15
Broadband Amplifier (800MHz~3GHz/110W)	Rohde & Schwarz	BBA150	EMC2092	2022-12-16	2023-12-15
Signal Generator (9kHz-6GHz)	Rohde & Schwarz	SMB100A	EMC2093	2022-12-16	2023-12-15
NRP-Z91 Power Sensor (9kHz-6GHz)	Rohde & Schwarz	NPR-Z91	EMC2095	2022-12-16	2023-12-15
NRP-Z91 Power Sensor (9kHz-6GHz)	Rohde & Schwarz	NPR-Z91	EMC2096	2022-12-16	2023-12-15
High-Gain Log-periodic Antenna	Rohde & Schwarz	HL046E	EMC2097	2022-02-14	2025-02-13
RI Cable	Rohde & Schwarz	7m	EMC2098	2022-05-20	2023-05-19
Broadband Amplifier (2.5~6GHz/30W)	Rohde & Schwarz	BBA150	EMC2105	2022-09-21	2023-09-20
Audio Analyzer	Keysight	U8903B	EMC2180	2022-09-07	2023-09-06
Test Software EMC32	Rohde & Schwarz	Ver. 9.26.00	GZE100-63	N/A	N/A
Stacked Logarithmic-Periodic Broadband Antenna (0.7~9GHz)/300W	Schwarzbeck	STLP 9149	SEM003-21	2021-09-18	2024-09-17

<b>Electrostatic Discharge</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Temperature & Humidity	Shanghai Meteorological Instrument Factory Co., Ltd.	ZJ1-2B	EMC0078	2022-06-26	2023-06-25
ESD Ground Plane	SGS-EMC	3m x 3m	EMC0804	N/A	N/A
Aneroid Barometer	Shanghai Meteorological Instrument Factory Co., Ltd.	YM3	EMC2181	2022-11-18	2023-11-17
ESD Simulator-E	EMTEST	NX30	EMC2186	2023-02-20	2024-02-19



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Surge at AC Power Port					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Oscilloscope	Tektronix	TDS3052C	EMC2055	2022-11-17	2023-11-16
EMC Immunity Test System	TESEQ AG	NSG 3060&CDN3061&INA 6502 CIB	EMC2072	2022-12-16	2023-12-15
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

Conducted Immunity at AC Power Port (150kHz-80MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Dual Directional coupler	Werlatone Inc.	C1795	EMC1105	2022-05-16	2023-05-15
CDN M2	Schaffner Chase	CDN-M2-16	EMC1107	2020-10-23	2023-10-22
CDN M2/M3	Elektronik-Feinmechanik	L-801:M2/M3	EMC2048	2022-07-19	2024-07-18
Test System for Conducted and Radiated Immunity	TESEQ AG	NSG 4070B-80	EMC2115	2022-11-14	2023-11-13
Audio Analyzer	Keysight	U8903B	EMC2180	2022-09-07	2023-09-06
Test Software NSG4070_Ctrl1	TESEQ AG	Ver.1.3.0.1	GZE100-72	N/A	N/A
Oscilloscope	Tektronix	TDS3052C	EMC2055	2022-11-17	2023-11-16

Voltage Dips and Interruptions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Oscilloscope	Tektronix	TDS3052C	EMC2055	2022-11-17	2023-11-16
EMC Immunity Test System	TESEQ AG	NSG 3060&CDN3061&INA 6502 CIB	EMC2072	2022-12-16	2023-12-15
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2022-06-24	2023-06-23



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## 6 Emission Test Results

### 6.1 Conducted Emissions at Mains Power Port (150kHz-30MHz)

Test Requirement: EN 55032: 2015+A11:2020+A1:2020  
 Test Method: EN 55032: 2015+A11:2020+A1:2020  
 Limit:  
 0.15MHz-0.5MHz 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average  
 0.5MHz-5MHz 56dB(μV) quasi-peak, 46dB(μV) average  
 5MHz-30MHz 60dB(μV) quasi-peak, 50dB(μV) average  
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

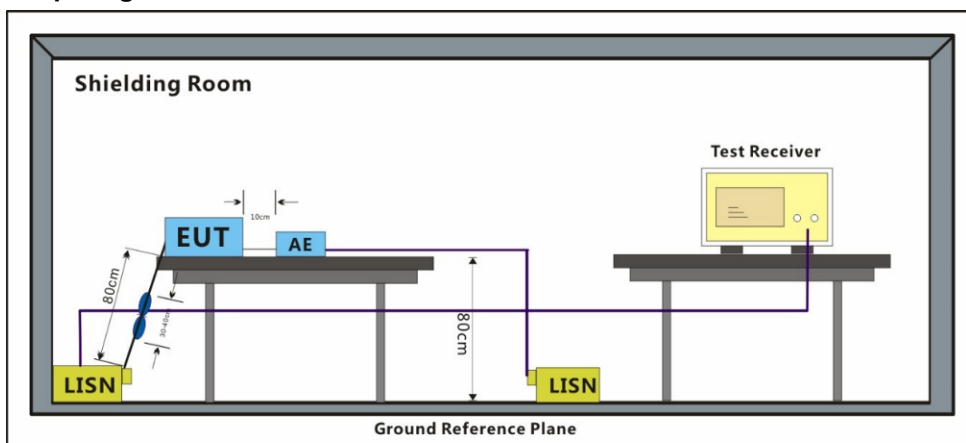
#### 6.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 25.0 °C Humidity: 55.1 % RH Atmospheric Pressure: 1008 mbar

#### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	08	Normal operating_Keep the EUT to be tested in music playing mode.
Final test	09	Normal operating_Keep the EUT in charging mode by AC/DC adapter.

#### 6.1.3 Test Setup Diagram



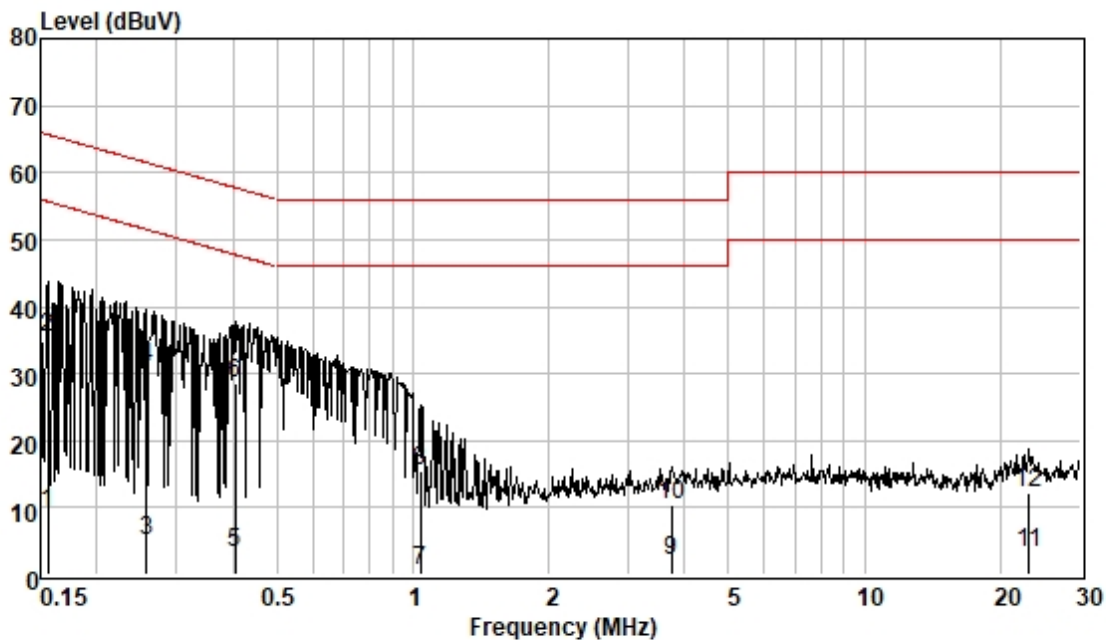
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### 6.1.4 Measurement Procedure and Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Remark: Level= Read Level+ Cable Loss+ LISN Factor

Test Mode: 09; Line: Live line



Pol :LINE  
Mode :  
Model :  
Power :

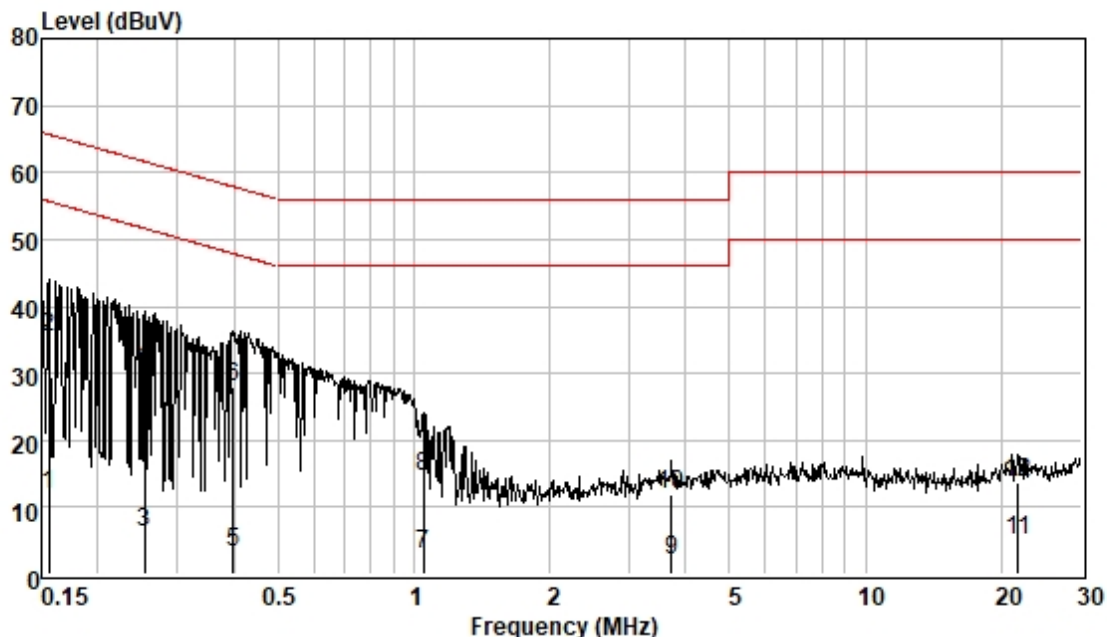
	Freque	Read	Cable	LISN	Measured	Limit	Over	Remark
	nc	Level	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.156	-0.40	0.06	9.61	9.27	55.69	-46.42	Average
2	0.156	25.76	0.06	9.61	35.43	65.69	-30.26	QP
3	0.258	-4.61	0.06	9.61	5.06	51.51	-46.45	Average
4	0.258	21.19	0.06	9.61	30.86	61.51	-30.65	QP
5	0.404	-6.43	0.06	9.59	3.22	47.77	-44.55	Average
6	0.404	18.95	0.06	9.59	28.60	57.77	-29.17	QP
7	1.037	-9.02	0.07	9.59	0.64	46.00	-45.36	Average
8	1.037	5.66	0.07	9.59	15.32	56.00	-40.68	QP
9	3.740	-7.57	0.16	9.63	2.22	46.00	-43.78	Average
10	3.740	0.60	0.16	9.63	10.39	56.00	-45.61	QP
11	23.140	-6.71	0.38	9.66	3.33	50.00	-46.67	Average
12	23.140	2.18	0.38	9.66	12.22	60.00	-47.78	QP



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Test Mode: 09; Line: Neutral Line



Pol : NEUTRAL  
 Mode :  
 Model :  
 Power :

	Freque <sub>nc</sub> MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.156	2.13	0.06	9.62	11.81	55.69	-43.88	Average
2	0.156	25.72	0.06	9.62	35.40	65.69	-30.29	QP
3	0.253	-3.42	0.06	9.61	6.25	51.64	-45.39	Average
4	0.253	21.25	0.06	9.61	30.92	61.64	-30.72	QP
5	0.398	-6.39	0.06	9.61	3.28	47.90	-44.62	Average
6	0.398	18.23	0.06	9.61	27.90	57.90	-30.00	QP
7	1.049	-6.79	0.07	9.61	2.89	46.00	-43.11	Average
8	1.049	5.02	0.07	9.61	14.70	56.00	-41.30	QP
9	3.720	-7.67	0.16	9.64	2.13	46.00	-43.87	Average
10	3.720	2.23	0.16	9.64	12.03	56.00	-43.97	QP
11	21.715	-5.05	0.36	9.86	5.17	50.00	-44.83	Average
12	21.715	3.39	0.36	9.86	13.61	60.00	-46.39	QP



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**6.2 Radiated Emissions (30MHz-1GHz)**

Test Requirement: EN 55032: 2015+A11:2020+A1:2020  
 Test Method: EN 55032: 2015+A11:2020+A1:2020  
 Limit:  
 Test Distance: 10m  
 30MHz-230MHz: 30 dB(μV/m) quasi-peak  
 230MHz-1GHz: 37 dB(μV/m) quasi-peak  
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 1000MHz  
 Highest internal frequency (Fx):  $F_x \leq 108\text{MHz}$   
 Highest measured frequency: 1GHz

**6.2.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 23.6 °C Humidity: 56.3 % RH Atmospheric Pressure: 1008 mbar

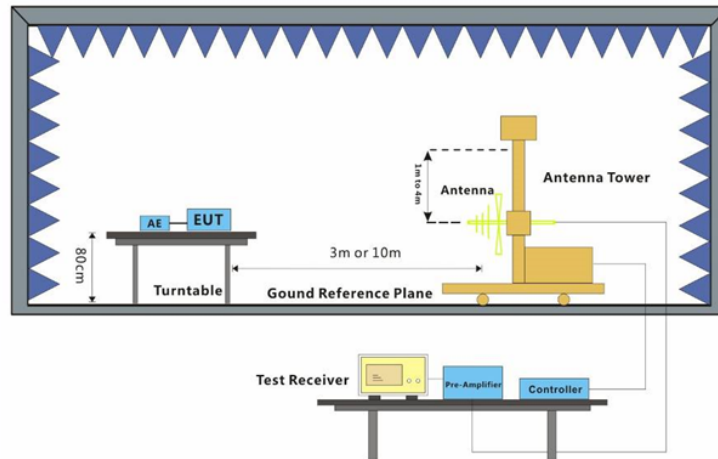
**6.2.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	08	Normal operating_Keep the EUT to be tested in music playing mode.
Pre-scan	09	Normal operating_Keep the EUT in charging mode by AC/DC adapter.
Pre-scan	11	Normal operating_Keep the EUT in AUX in mode



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### 6.2.3 Test Setup Diagram



### 6.2.4 Measurement Procedure and Data

Frequency range: 30MHz-1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

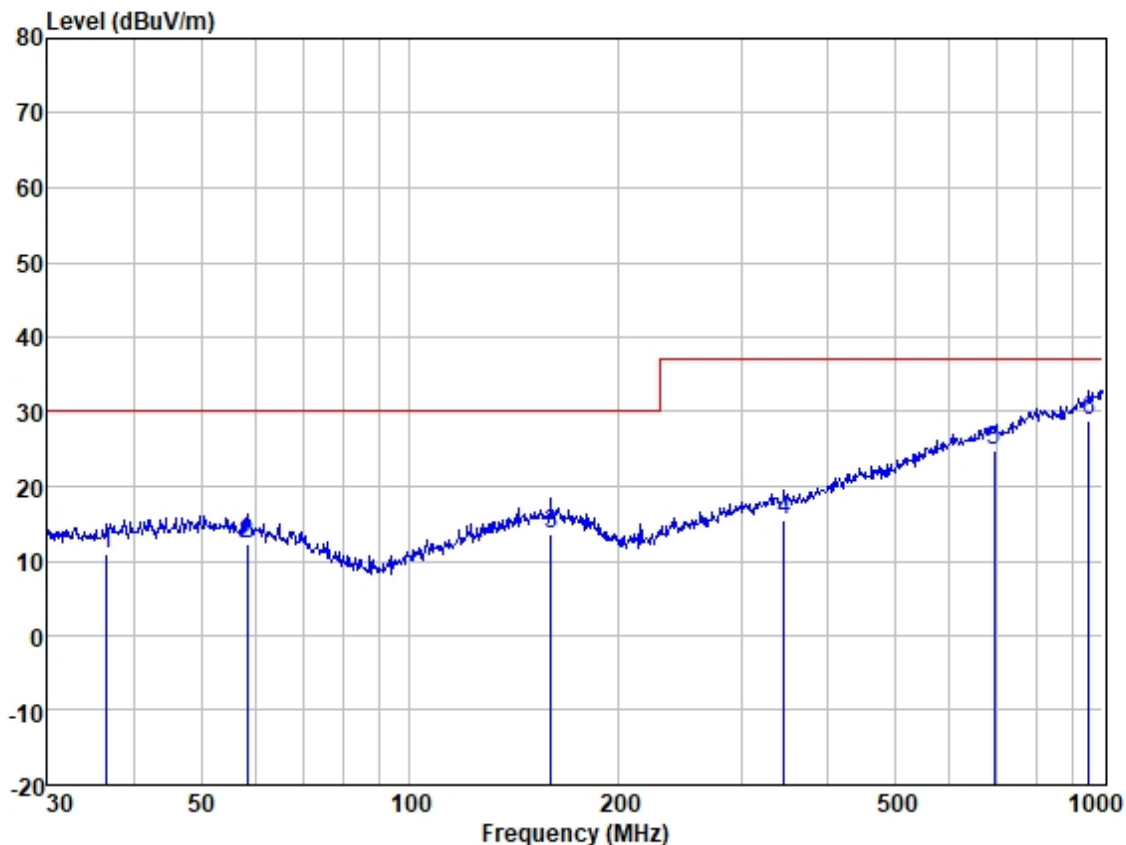
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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Test Mode: 08; Polarity: Horizontal



Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode : Music playing

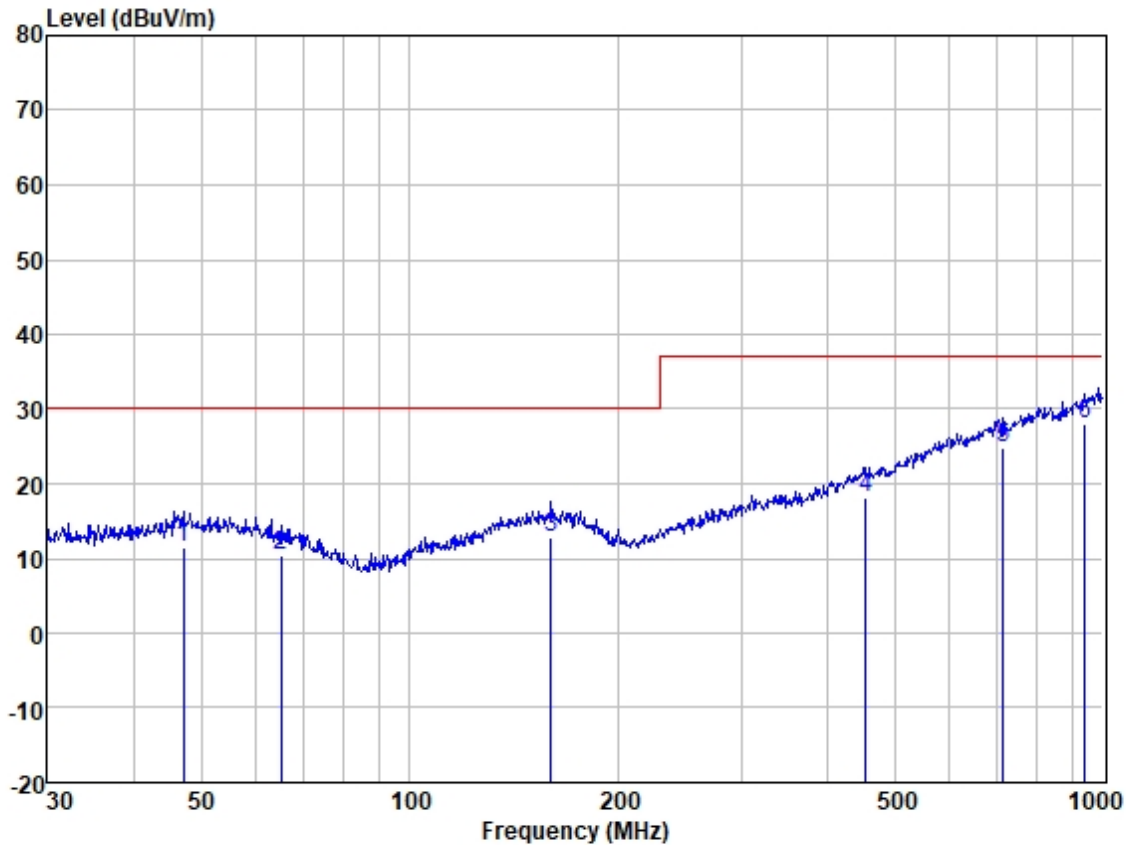
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBUV	dB/m	dB	dB	dBUV/m	dBUV/m	dB		
1	36.509	24.36	13.20	1.07	27.62	11.01	30.00	-18.99	HORIZONTAL	QP
2	58.203	25.10	13.56	1.22	27.60	12.28	30.00	-17.72	HORIZONTAL	QP
3	159.784	24.88	13.69	2.32	27.36	13.53	30.00	-16.47	HORIZONTAL	QP
4	346.809	25.00	14.38	3.59	27.60	15.37	37.00	-21.63	HORIZONTAL	QP
5	696.857	26.77	21.33	5.49	28.70	24.89	37.00	-12.11	HORIZONTAL	QP
6	952.094	25.88	24.26	6.80	28.09	28.85	37.00	-8.15	HORIZONTAL	QP



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Test Mode: 08; Polarity: Vertical



Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode : Music playing

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	47.160	23.90	13.94	1.12	27.60	11.36	30.00	-18.64	VERTICAL	QP
2	65.114	24.18	12.59	1.35	27.60	10.52	30.00	-19.48	VERTICAL	QP
3	159.784	24.08	13.69	2.32	27.36	12.73	30.00	-17.27	VERTICAL	QP
4	454.310	25.37	17.04	4.21	28.37	18.25	37.00	-18.75	VERTICAL	QP
5	716.682	26.65	21.22	5.57	28.69	24.75	37.00	-12.25	VERTICAL	QP
6	942.131	25.29	23.99	6.70	28.11	27.87	37.00	-9.13	VERTICAL	QP



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### 6.3 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3: 2013+ A1:2019+A2:2021

Test Method: EN 61000-3-3: 2013+ A1:2019+A2:2021

#### 6.3.1 E.U.T. Operation

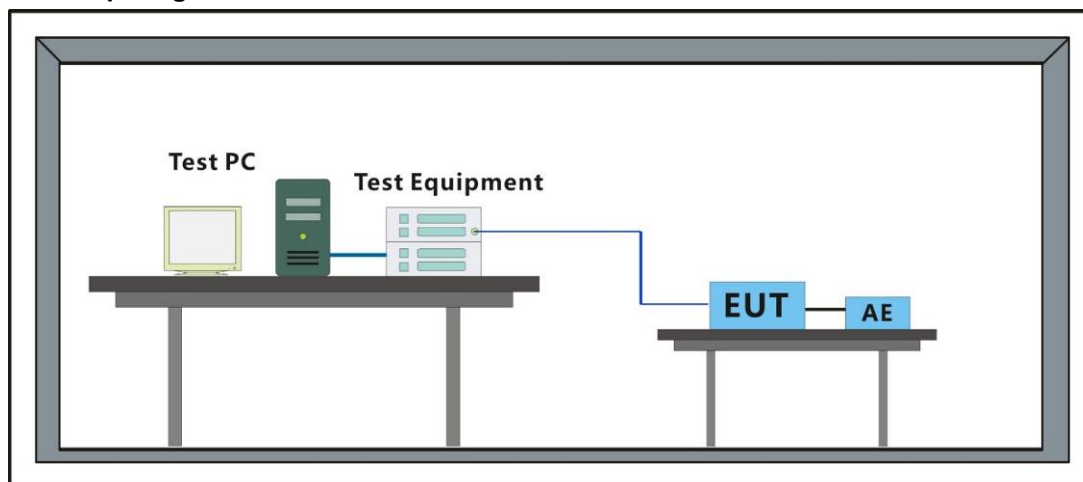
Operating Environment:

Temperature: 22.2 °C Humidity: 53.8 % RH Atmospheric Pressure: 1008 mbar

#### 6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	08	Normal operating_Keep the EUT to be tested in music playing mode.
Final test	09	Normal operating_Keep the EUT in charging mode by AC/DC adapter.

#### 6.3.3 Test Setup Diagram



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**6.3.4 Measurement Procedure and Data**

Test Mode: 09

**Flicker Results**

**Standard Specific Results for IEC 61000-3-3 (Edition 3.2)**

Standard Group: Industry

Standard Name: IEC 61000-3-3 (Edition 3.2)

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

Test Condition: General Test Conditions

Analysis Status: **PASS**

Flicker Measurements Settings	
Main Line:	230V, 50Hz
Flicker Meter:	230V / 50Hz
Flicker Impedance:	Zref
Observation Time:	1 × 10 min
Measurements:	1

Flicker Measurements					
	P <sub>ft</sub>	Max P <sub>st</sub>	Max d <sub>c</sub>	Max d <sub>max</sub>	Max T <sub>max</sub>
Line 1:	0.05	0.107	0	< 0.2	0
Limits:	0.65	1	3.3	4	0.5
Results:	PASS	PASS	PASS	PASS	PASS

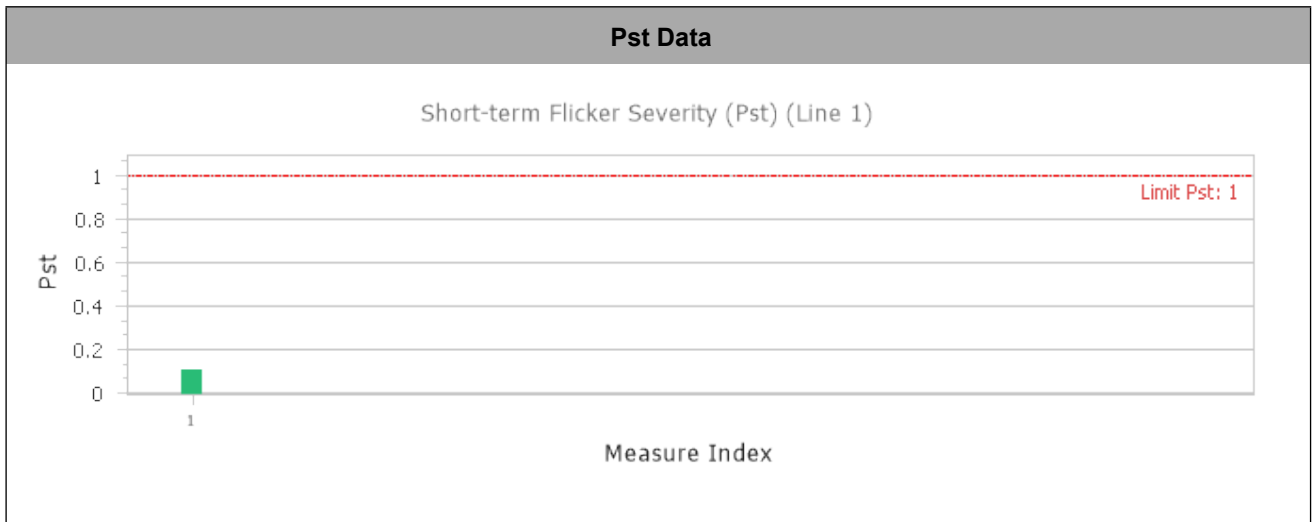
Flicker Individual Measurements												
Measurement	P <sub>st</sub> [%]			d <sub>c</sub> [%]			d <sub>max</sub> [%]			T <sub>max</sub> [s]		
	Value	Limit	Result	Value	Limit	Result	Value	Limit	Result	Value	Limit	Result
#1	0.11	1.00	PASS	0.00	3.30	PASS	< 0.2	4.00	PASS	0.00	0.50	PASS



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### 6.4 Harmonic Current Emission

Test Requirement: EN IEC 61000-3-2: 2019+A1:2021

Test Method: EN IEC 61000-3-2: 2019+A1:2021

Remark:

Since the EUT was belong to exception of clause 7 and Annex B, according to EN IEC 61000-3-2 figure 1, it was deemed to conform to the requirements of this standard without further testing.

#### 7 Harmonic current limits

The procedure for applying the limits and assessing the results is shown in Figure 1.

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

NOTE 1 Limits may be defined in a future amendment or revision of the standard.

- lighting equipment with a rated power less than but not equal to 5 W;
- equipment with a rated power of 75 W or less, other than lighting equipment;

NOTE 2 This value may be reduced from 75 W to 50 W in the future, subject to approval by National Committees at that time.

- professional equipment with a total rated power greater than 1 kW;
- symmetrically controlled heating elements with a rated power less than or equal to 200 W;
- independent phase control dimmers
  - with a rated power less than or equal to 1 kW when operating incandescent lamps;
  - with a rated power less than or equal to 200 W for trailing edge dimmers, and universal phase control dimmers with the default mode set to trailing edge, when operating lighting equipment other than incandescent lamps;
  - with a rated power less than or equal to 100 W for leading edge dimmers, and universal phase control dimmers without default mode set to trailing edge, when operating lighting equipment other than incandescent lamps.

and

Kitchen machines as listed in the scope of IEC 60335-2-14 are deemed to conform to the harmonic current limits of this standard without further testing.

Please read clause 7 & Annex B of this standard for reference.



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## 7 Immunity Test Results

### General Performance Criteria Description in EN 55035: 2017+A11:2020

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.
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.
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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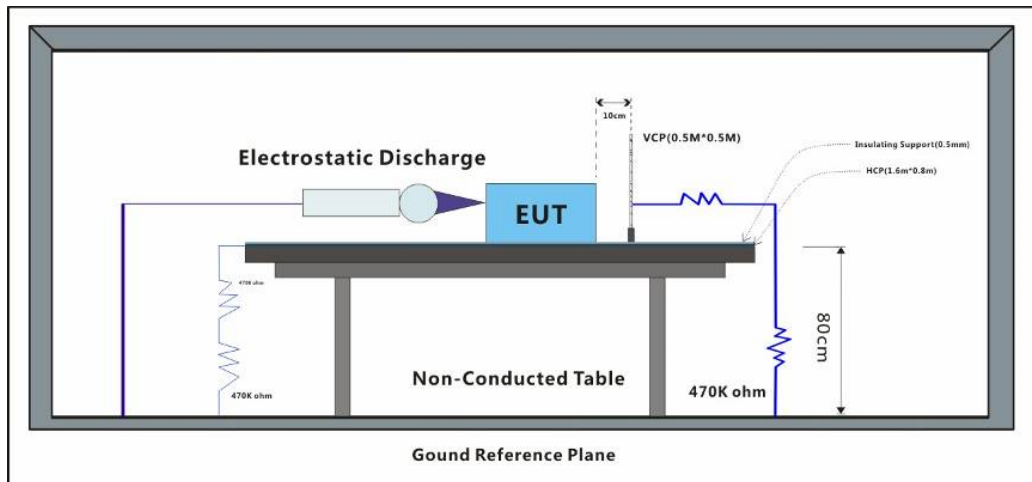
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### 7.1 Electrostatic Discharge

Test Requirement: EN 55035: 2017+A11:2020

Test Method: EN 61000-4-2: 2009

#### 7.1.1 Test Setup Diagram



#### 7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1008 mbar

#### 7.1.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Idle:Keep the EUT standby.
Final test	08	Normal operating_Keep the EUT to be tested in music playing mode.
Final test	09	Normal operating_Keep the EUT in charging mode by AC/DC adapter.
Pre-scan	11	Normal operating_Keep the EUT in AUX in mode



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**7.1.4 Test Condition and Results:**

Performance Criterion: B

Discharge Impedance: 330Ω/150pF

Number of Discharge: Minimum 10 times at each test point

Discharge Mode: Single Discharge

Discharge Period: 1 second minimum

Test Point 1: All insulated enclosure & seams.

Test Point 2: All accessible metal parts of the enclosure.

Test Point 3: All sides.

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	2,4,8	+	1	A
Air Discharge	2,4,8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

A: No degradation in the performance of the EUT was observed



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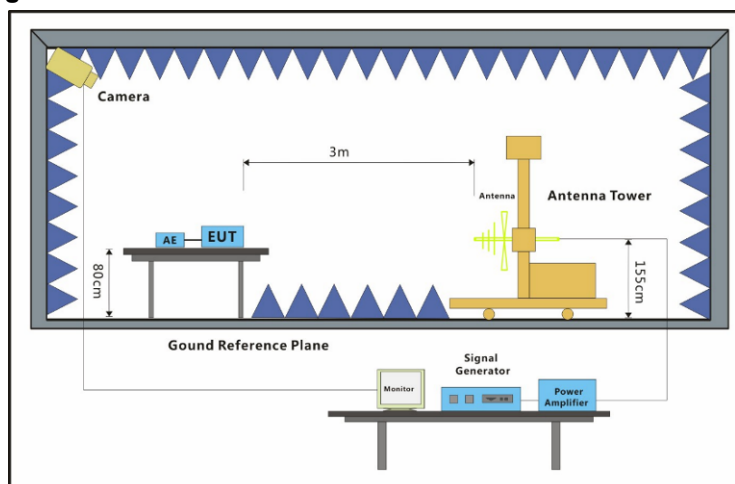


### 7.2 Radiated Immunity (80MHz-1GHz,1800MHz,2600MHz,3500MHz,5000MHz)

Test Requirement: EN 55035: 2017+A11:2020

Test Method: EN IEC 61000-4-3: 2020

#### 7.2.1 Test Setup Diagram



#### 7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C      Humidity: 58.0 % RH      Atmospheric Pressure: 1008 mbar

#### 7.2.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Idle:Keep the EUT standby.
Final test	08	Normal operating_Keep the EUT to be tested in music playing mode.
Final test	09	Normal operating_Keep the EUT in charging mode by AC/DC adapter.
Pre-scan	11	Normal operating_Keep the EUT in AUX in mode



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**7.2.4 Test Condition and Results:**

Performance Criterion: A

Frequency Range: 80MHz to 1GHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz

Antenna Polarisation: Vertical and Horizontal

Modulation: 1kHz,80% Amp. Mod,1% increment

Test Distance:3m

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	3s	A
80MHz-1GHz	3	Back	3s	A
80MHz-1GHz	3	Left	3s	A
80MHz-1GHz	3	Right	3s	A
80MHz-1GHz	3	Top	3s	A
80MHz-1GHz	3	Underside	3s	A
1800MHz	3	Front	3s	A
1800MHz	3	Back	3s	A
1800MHz	3	Left	3s	A
1800MHz	3	Right	3s	A
1800MHz	3	Top	3s	A
1800MHz	3	Underside	3s	A
2600MHz	3	Front	3s	A
2600MHz	3	Back	3s	A
2600MHz	3	Left	3s	A
2600MHz	3	Right	3s	A
2600MHz	3	Top	3s	A
2600MHz	3	Underside	3s	A
3500MHz	3	Front	3s	A
3500MHz	3	Back	3s	A
3500MHz	3	Left	3s	A
3500MHz	3	Right	3s	A
3500MHz	3	Top	3s	A
3500MHz	3	Underside	3s	A
5000MHz	3	Front	3s	A
5000MHz	3	Back	3s	A
5000MHz	3	Left	3s	A
5000MHz	3	Right	3s	A
5000MHz	3	Top	3s	A
5000MHz	3	Underside	3s	A

A: No degradation in the performance of the EUT was observed



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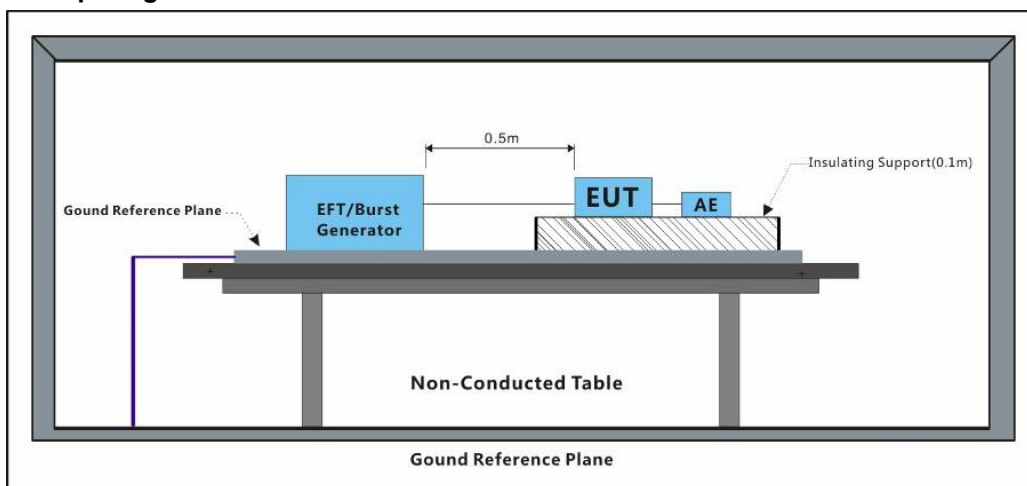
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### 7.3 Electrical Fast Transients & Burst at AC Power Port

Test Requirement: EN 55035: 2017+A11:2020

Test Method: EN 61000-4-4: 2012

#### 7.3.1 Test Setup Diagram



#### 7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 54.7 % RH Atmospheric Pressure: 1008 mbar

#### 7.3.3 Test Mode Description

Pre-scan / Mode	Code	Description
Final test	01	Idle:Keep the EUT standby.
Final test	08	Normal operating_Keep the EUT to be tested in music playing mode.
Final test	09	Normal operating_Keep the EUT in charging mode by AC/DC adapter.

#### 7.3.4 Test Condition and Results:

Performance Criterion: B

Repetition Frequency: 5kHz

Burst Period: 300ms

Test Duration: 2 minute per level & polarity

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC power port	1	+	CDN	A
AC power port	1	-	CDN	A

A: No degradation in the performance of the EUT was observed



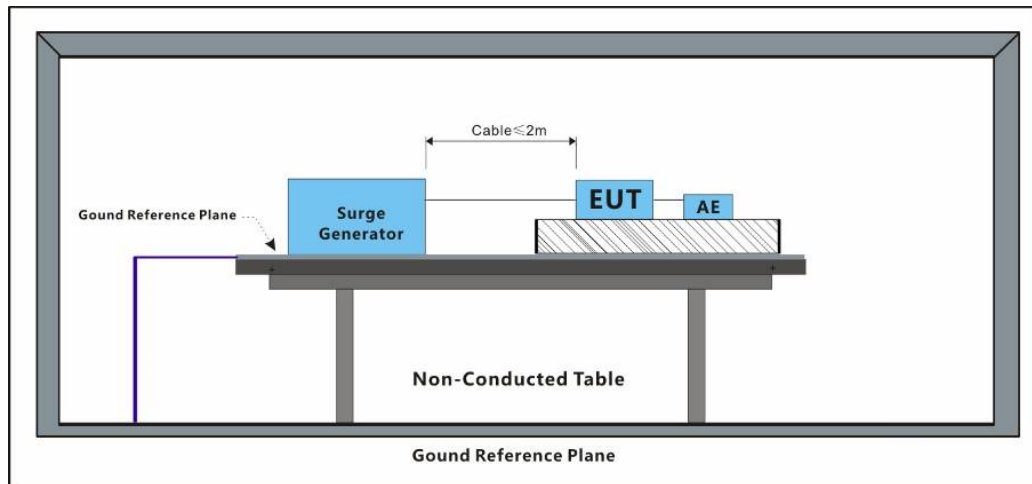
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### 7.4 Surge at AC Power Port

Test Requirement: EN 55035: 2017+A11:2020

Test Method: EN 61000-4-5: 2014 +A1: 2017

#### 7.4.1 Test Setup Diagram



#### 7.4.2 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

Humidity: 54.8 % RH

Atmospheric Pressure: 1008 mbar

#### 7.4.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Idle:Keep the EUT standby.
Final test	08	Normal operating_Keep the EUT to be tested in music playing mode.
Final test	09	Normal operating_Keep the EUT in charging mode by AC/DC adapter.

**7.4.4 Test Condition and Results:**

- Performance Criterion: B
- Interval: 60s between each surge
- Generator source impedance: 2Ω
- CDN coupling impedance(Line-to-ground):10Ω
- No. of surges:
- Five positive pulses line-to-neutral at 90° phase
- Five negative pulses line-to-neutral at 270° phase
- 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

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
Line to Neutral	0.5, 1	+	90°	A
Line to Neutral	0.5, 1	-	270°	A

A: No degradation in the performance of the EUT was observed



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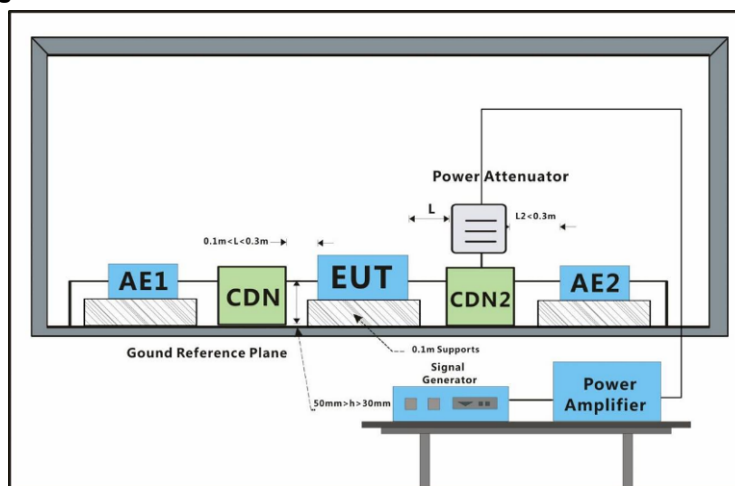
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### 7.5 Conducted Immunity at AC Power Port (150kHz-80MHz)

Test Requirement: EN 55035: 2017+A11:2020

Test Method: EN 61000-4-6: 2014

#### 7.5.1 Test Setup Diagram



#### 7.5.2 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Humidity: 54.7 % RH Atmospheric Pressure: 1008 mbar

#### 7.5.3 Test Mode Description

Pre-scan / Mode	Code	Description
Final test	01	Idle:Keep the EUT standby.
Final test	08	Normal operating_Keep the EUT to be tested in music playing mode.
Final test	09	Normal operating_Keep the EUT in charging mode by AC/DC adapter.

#### 7.5.4 Test Condition and Results:

Performance Criterion: A

Frequency Range: 0.15MHz to 80MHz

Modulation: 80%, 1kHz Amplitude Modulation

Step Size: 1%

Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	3(0.15MHz-10MHz)	CDN	3s	A
AC power port	3 to 1(10MHz-30MHz, Lines)	CDN	3s	A
AC power port	1(30MHz-80MHz)	CDN	3s	A

A: No degradation in the performance of the EUT was observed



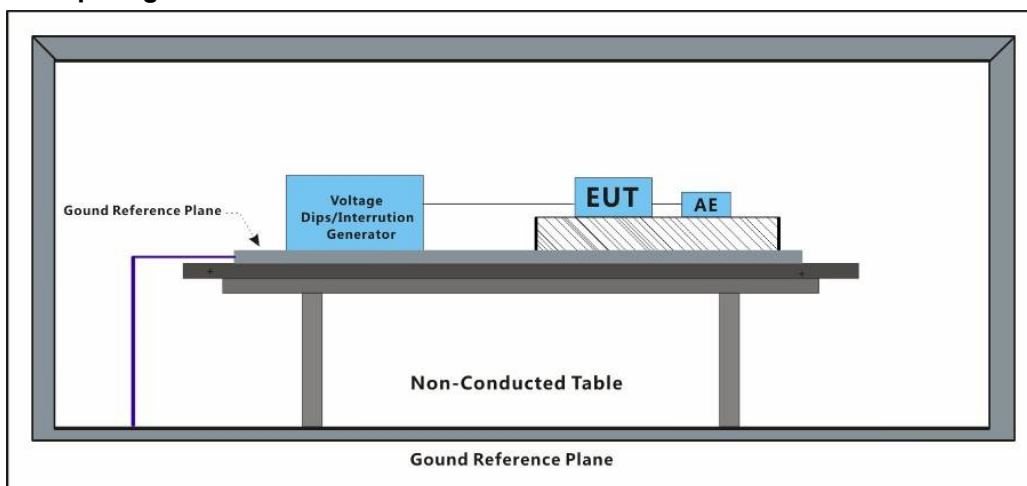
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### 7.6 Voltage Dips and Interruptions

Test Requirement: EN 55035: 2017+A11:2020

Test Method: EN IEC 61000-4-11:2020

#### 7.6.1 Test Setup Diagram



#### 7.6.2 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C      Humidity: 54.8 % RH      Atmospheric Pressure: 1008 mbar

#### 7.6.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Idle:Keep the EUT standby.
Final test	08	Normal operating_Keep the EUT to be tested in music playing mode.
Final test	09	Normal operating_Keep the EUT in charging mode by AC/DC adapter.



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**7.6.4 Test Condition and Results:**

Performance Criterion:

<5% residual voltage for 0.5 Cycle: B

70% residual voltage for 25 Cycles: C

<5% residual voltage for 250 Cycles: C

No. of Dips / Interruptions: 3 per Level

Time between dropout: 10s

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Cycle	3	A
0	0°	250 Cycles	3	B
0	0°	25 Cycles	3	A

A: No degradation in the performance of the EUT was observed

B: During test, the EUT stopped charging. After test, it could recover automatically.



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### 8 Test Setup Photo

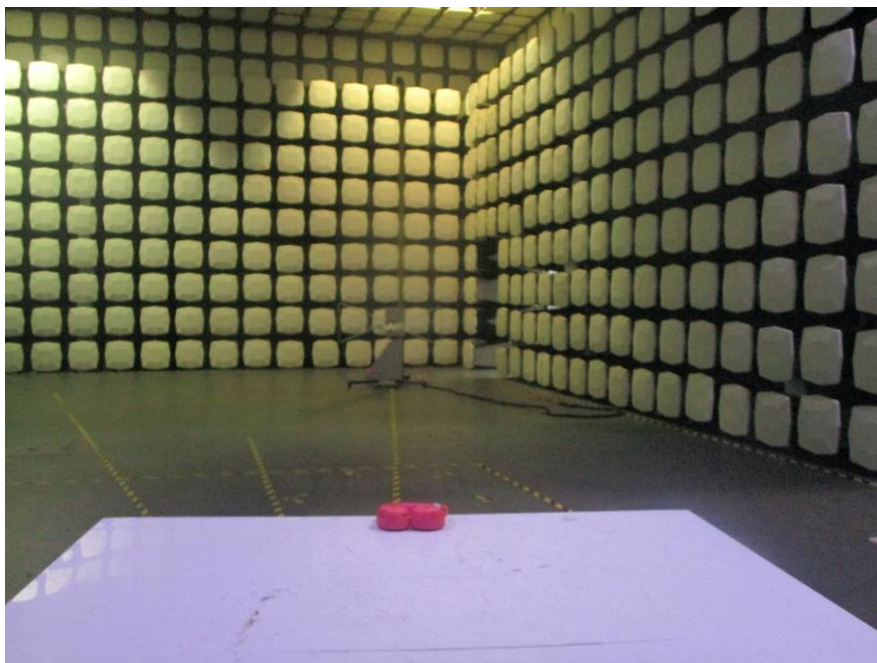
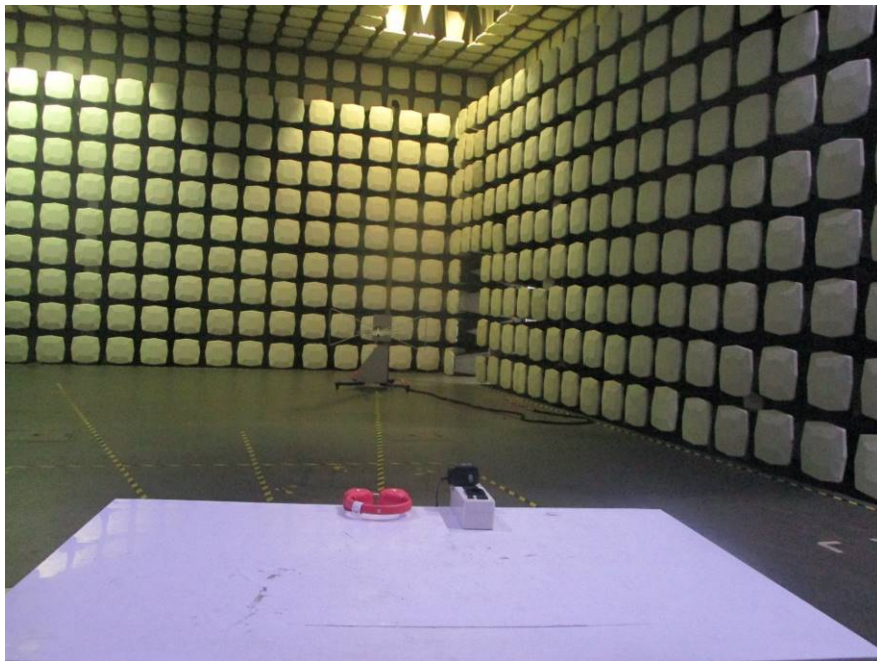
#### Conducted Emissions at Mains Power Port (150kHz-30MHz)



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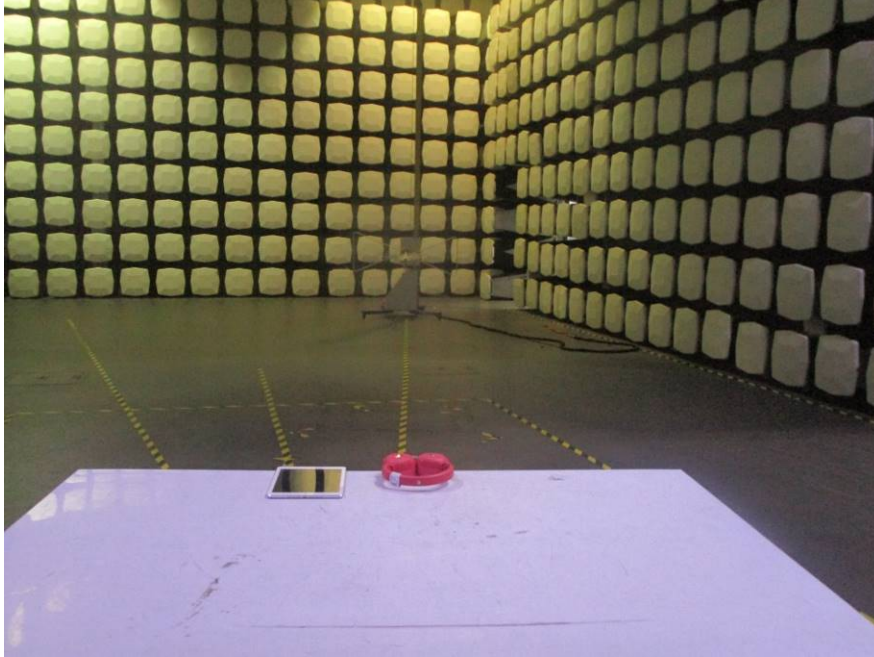
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### Radiated Emissions (30MHz-1GHz)



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### Voltage Fluctuations and Flicker



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### Electrostatic Discharge



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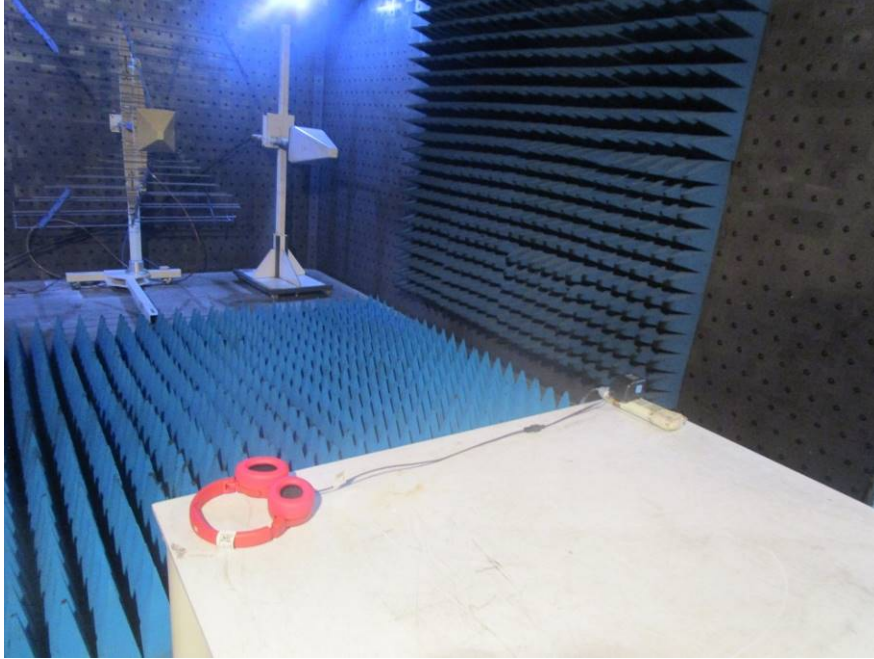




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### Radiated Immunity (80MHz-1GHz,1800MHz,2600MHz,3500MHz,5000MHz)



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### Electrical Fast Transients & Burst at AC Power Port



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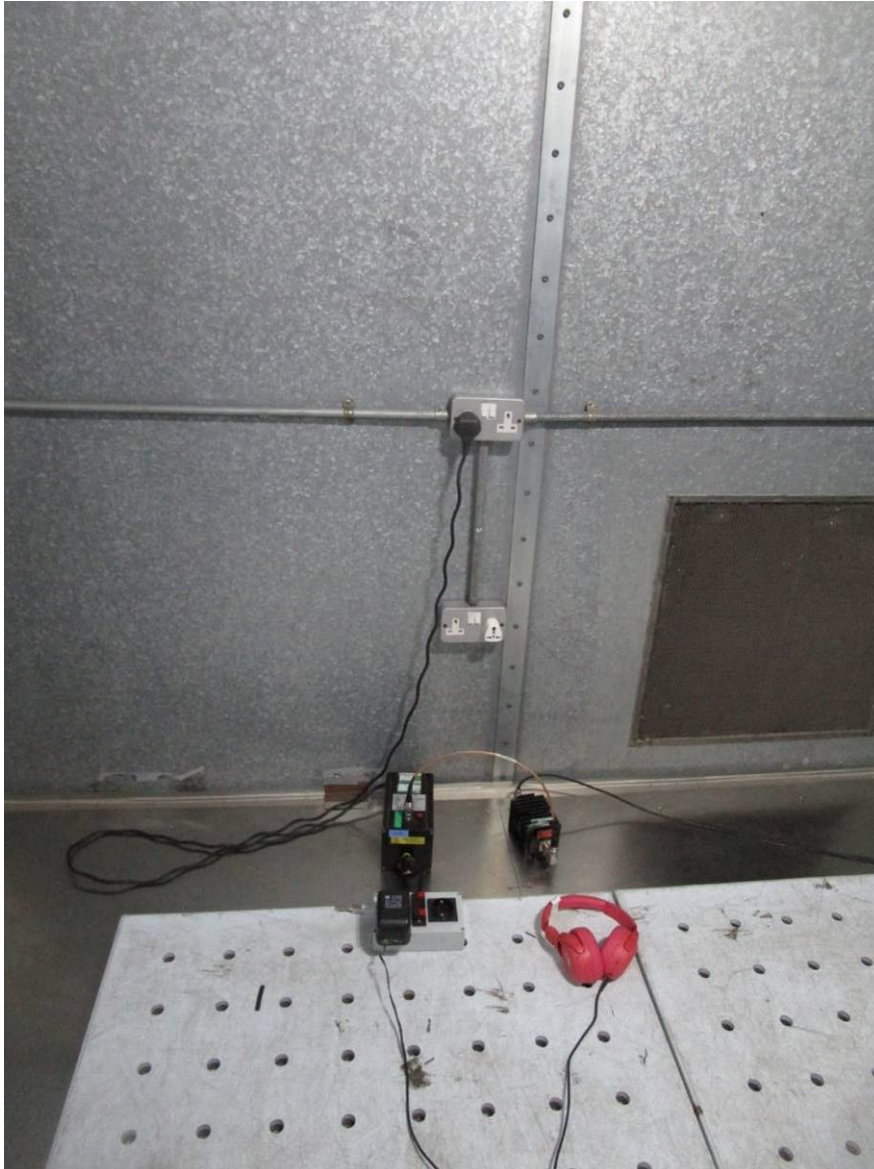
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### Surge at AC Power Port



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### Conducted Immunity at AC Power Port (150kHz-80MHz)



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### Voltage Dips and Interruptions



## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix \_ Photographs of EUT Constructional Details for GZCR2211001461AT

- End of the Report -



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