

TEST REPORT

Application No.: GZEM2509005827HS

Applicant:

Address of Applicant:

Manufacturer:

Address of Manufacturer:

Factory:

Address of Factory:

Product Name: FAN

Model No.: TX-802DC, TX-803DC, TX-803DC-1, TX-804DC. ☐

☐ Please refer to section 2 of this report for details.

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

Date of Receipt: 2025-09-03

Date of Test: 2025-09-06 to 2025-09-30

Date of Issue: 2025-10-14

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Revision Record			
Version	Report No.	Date	Remark
01	GZEM241100682801	2024-12-19	Original (null)
02	GZEM241100682802	2025-02-27	Amendment report: updated photo.
03	GZEM241100682803	2025-10-14	Amendment report: updated standard and added new models.

Authorized for issue by:			
		<i>Jenny Chen</i>	

		Jenny Chen/Project Engineer	
Approved By		<i>Cher</i>	

		Cherie Luo/Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
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
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	EN IEC 55014-1: 2021	CISPR 16-2-1: 2014 +A1:2017	Table 5	Pass
Disturbance Power		CISPR 16-2-2: 2010	Table 7 & 8	Pass
Radiated Emissions (30MHz-1GHz)		CISPR 16-2-3: 2016 +A1:2019 +A2:2023	Table 9	Pass**
Harmonic Current Emission	EN IEC 61000-3-2: 2019 +A1:2021 +A2:2024	EN IEC 61000-3-2: 2019 +A1:2021 +A2:2024	Class A	Pass*

* Please refer to Section 6.5 of this report for details.

** : Sample 1 passed Radiated Emissions (30MHz-1GHz) test after modification.

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN IEC 55014-2: 2021	EN 61000-4-2: 2009	4kV Contact Discharge, 8kV Air Discharge	Pass
Electrical Fast Transients Burst at AC Mains Power Port		EN 61000-4-4: 2012	1kV, 5/50ns Tr/Td, 5kHz Repetition Frequency	Pass
Surge at AC Mains Power Port		EN 61000-4-5: 2014 +A1:2017	1.2/50µs Tr/Td, 1kV Line to Line	Pass
Conducted Immunity at AC Mains Power Port (150kHz-230MHz)		EN IEC 61000-4-6: 2023	3Vrms (emf), 80%, 1kHz Amp. Mod.	Pass
Voltage Dips and Interruptions		EN IEC 61000-4-11: 2020	For 50Hz: 0 % UT for 0.5cycle, 40 % UT for 10cycles, 70 % UT for 25cycles, UT is Supply Voltage	Pass
Radiated Immunity (80MHz-1GHz)		EN IEC 61000-4-3: 2020	3V/m, 80%, 1kHz Amp. Mod.	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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Remark for the report GZEM241100682802

This report GZEM241100682802 supersedes the original report GZEM241100682801, only updated photo.

Remark for the report GZEM241100682803

This test report GZEM241100682803 is an additional report based on and only valid with the previous test report GZEM241100682802, just updated standard and added new models.

1. Updated below standard:

Standard in previous report	Standard in updated report
EN IEC 61000-3-2: 2019+A1:2021	EN IEC 61000-3-2: 2019 +A1:2021 +A2:2024

Reviewed the updated standard, all the technical requirements for the product between original and the newest standards' versions are identical, therefore it's acceptable to update standard(s) without further testing.

2. Added new models: TX-803DC, TX-803DC-1, TX-804DC.

According to the declaration of the applicant:

- 1) New models **TX-803DC, TX-803DC-1** were totally different with original model TX-802DC.
- 2) New model **TX-804DC** was different with original model TX-802DC, except for the motor.

The information for all models as below:

Model No.		PCB	Motor	With LED lamp or not
TX-802DC	original	PCB 1	Motor 1	without
TX-804DC	new	PCB 2		
TX-803DC-1		PCB 3	Motor 2	
TX-803DC				with

Considering to above information, new Full tests were performed on below samples in this report.

Sample 1: TX-803DC;

Sample 2: TX-804DC

Only new test data was kept in this report.

For original test data please refer to the report GZEM241100682802.



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4 General Information

4.1 Details of E.U.T.

Power supply: Rating: DC 5V, 2A for Sample 1; DC 5V, 5W for Sample 2
 Test Voltage: AC 230V, 50Hz by adapter
 Clock Frequency: Less than 15MHz
 Cable(s): USB unscreened cable

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC Power Adapter	XINYING	XY-800K (Input: AC 180-230V, 50Hz; Output: DC5V)	RE01

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	3.22dB (150kHz to 30MHz)
Disturbance Power	3.60dB (30MHz-300MHz)
Radiated Emissions (30MHz-1GHz)	5.14dB (30MHz-1GHz):3m; 4.90dB (30MHz-1GHz):10m

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.

Immunity decision rule:

- Pass means the observation meets the Performance Criterion requirement.
- Fail means the observation doesn't meet the Performance Criterion requirement.



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4.4 Test Location

Radiated Emissions (30MHz-1GHz) & Radiated Immunity (80MHz-1GHz) were tested by SGS engineer at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

Other tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shunde Branch

Building 1, Europe Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District,
Foshan, Guangdong, China

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

Sample 1 passed Radiated Emissions (30MHz-1GHz) test after modification

4.7 EMS Monitor

Visual: LED indication, lighting and motor running



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5 Equipment List

Voltage Fluctuations and Flicker					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
AC Power Source	California	50001iX	EMC0608	2024-11-28	2025-11-27
Power Analyzer	California	PACS	EMC0607	2024-11-28	2025-11-27
Test Software CTS4	California	Ver 4.29.0	GZE100-66	N/A	N/A

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 4m x 3.3m	EMC2067	2024-09-09	2027-09-08
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2024-11-28	2025-11-27
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Receiver	Rohde & Schwarz	ESR3	EMC2037	2025-08-12	2026-08-11

Disturbance Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 4m x 3.3m	EMC2067	2024-09-09	2027-09-08
Absorbing Clamp	SCHWARZBECK	MDS 21C	EMC2232	2024-03-10	2026-03-09
6 dB Attenuator with 5m length cable	SCHWARZBECK	DGA9552N	EMC2233	2024-03-10	2026-03-09
EMI Receiver	Rohde & Schwarz	ESR3	EMC2037	2025-08-12	2026-08-11

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2025-03-22	2028-03-21
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-12-03	2025-12-02
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2238	2025-03-24	2027-03-23
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2024-12-04	2026-12-03

Electrostatic Discharge					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
ESD Simulator-E	TESEQ	NSG435	EMC2071	2025-07-01	2026-06-30
ESD Ground Plane	SGS-EMC	3m x 3m	EMC0804	N/A	N/A



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Electrical Fast Transients Burst at AC Mains Power Port					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMC Immunity Test System	EMC PARTNER	TRANSIENT 2000	EMC2218	2024-11-28	2025-11-27
Three phases coupling and decoupling network for EFT	Lioncel	CDN-4320H	EMC2286	2025-06-24	2026-06-23
EMC Combination Generator	Lioncel	LEG-433C	EMC2285	2025-06-24	2026-06-23

Surge at AC Mains Power Port					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMC Immunity Test System	EMC PARTNER	TRANSIENT 2000	EMC2218	2024-11-28	2025-11-27
EMC Surge Generator	Lioncel	LSG-512H	EMC2287	2025-06-24	2026-06-23
Three phases coupling and decoupling network for Surge	Lioncel	CDN-5320H	EMC2288	2025-06-24	2026-06-23

Conducted Immunity at AC Mains Power Port (150kHz-230MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal Generator	Rohde & Schwarz	SMY01	EMC1101	2024-12-04	2025-12-03
Amplifier	Schaffner	GRF5048	EMC1102	2024-12-04	2025-12-03
Power Meter	Rohde & Schwarz	NRVS	EMC1103	2025-08-11	2026-08-10
URV5-Z2 10V Insertion Unit	Rohde & Schwarz	URV5-Z2	EMC2052	2025-08-12	2026-08-11
Dual Directional Coupler	SCHAFFNER	C1795	EMC0906	2024-12-04	2025-12-03
CDN M2/M3	Elektronik-Feinmechanik	L-801:M2/M3	EMC2048	2024-12-04	2025-12-03
Oscilloscope	Tektronix	TDS 744A	EMC2012	2025-08-12	2026-08-11
6dB attenuator	Schaffner	TST-150-761	EMC0058	2025-06-25	2026-06-24
Coupling Decoupling Network	Schaffner	CDN-M3-16	SEM007-04	2025-06-25	2026-06-24
Test System for Conducted Immunity	Lioncel	RIS-6091	EMC2289	2025-06-25	2026-06-24
6dB attenuator	Lioncel	WDTS150-6-2	EMC2291	2025-06-25	2026-06-24
Three phases coupling and decoupling network	Lioncel	CDN-M5-100	EMC2290	2025-06-25	2026-06-24



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Voltage Dips and Interruptions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMC Immunity Test System	EMC PARTNER	TRANSIENT 2000	EMC2218	2024-11-28	2025-11-27
Simulator for three phases voltage dips	Lioncel	VDS-1110B	EMC2284	2025-06-25	2026-06-24

Radiated Immunity (80MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
743 Compact 3m Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2025-08-13	2028-08-12
Oscilloscope	Tektronix	TDS3052C	EMC2055	2024-10-14	2025-10-13
Laser Probe Interface	RF Microwave Instrumentation	FI7000	EMC2089	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	2025-08-11	2026-08-10
Broadband Amplifier (800MHz-3GHz/110W)	Rohde & Schwarz	BBA150	EMC2092	2025-08-11	2026-08-10
Signal Generator (9kHz-6GHz)	Rohde & Schwarz	SMB100A	EMC2093	2025-08-11	2026-08-10
Laser Probe	RF Microwave Instrumentation	FL7006	EMC2094	2025-04-23	2026-04-22
NRP-Z91 Power Sensor (9kHz-6GHz)	Rohde & Schwarz	NPR-Z91	EMC2095	2025-08-11	2026-08-10
NRP-Z91 Power Sensor (9kHz-6GHz)	Rohde & Schwarz	NPR-Z91	EMC2096	2025-08-11	2026-08-10
High-Gain Log-preiodic Antenna	Rohde & Schwarz	HL046E	EMC2097	2025-02-14	2028-02-13
RI Cable	Rohde & Schwarz	7m	EMC2098	2025-05-13	2026-05-12
Broadband Amplifier (2.5-6GHz/30W)	Rohde & Schwarz	BBA150	EMC2105	2025-08-11	2026-08-10
Audio Analyzer	Keysight	U8903B	EMC2180	2025-08-11	2026-08-10
Test Software EMC32	Rohde & Schwarz	Ver. 10.60.10	GZE100-63	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2025-06-03	2026-06-02
DMM	Fluke	73	EMC0007	2025-06-03	2026-06-02



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6 Emission Test Results

6.1 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

6.1.1 E.U.T. Operation

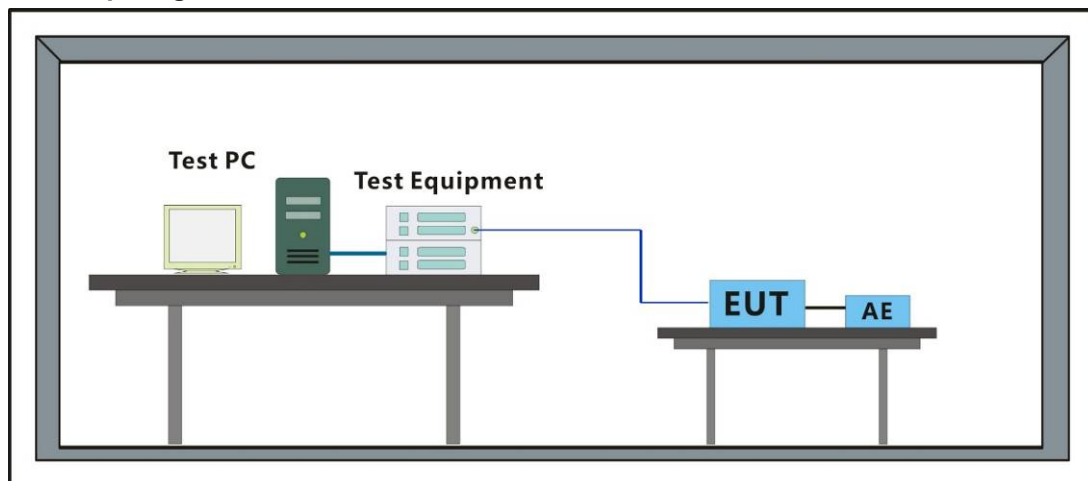
Operating Environment:

Temperature: 26.7 °C Humidity: 43.7 % RH Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in charging + motor running mode with LED lighting & swing function on for Sample 1
Pre-scan	01	Test the EUT in charging mode for Sample 1
Final test	04	Test the EUT in charging + motor running mode for Sample 2
Pre-scan	05	Test the EUT in charging mode for Sample 2

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data



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Test Mode: 00

Flicker Test Summary per EN 61000-3-3: 2013 +A1:2019 +A2:2021

Test category: All parameters (European limits)

Test Margin: 100

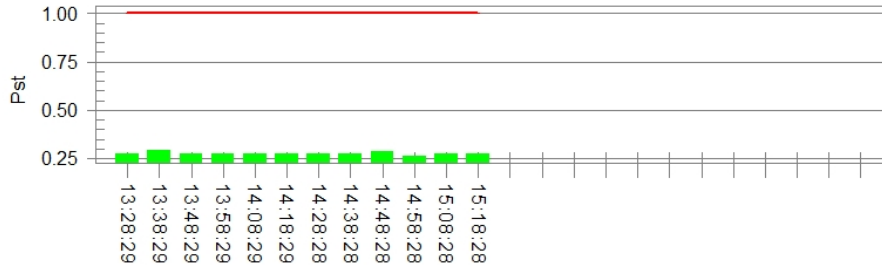
Test duration (min): 120

Status: Test Completed

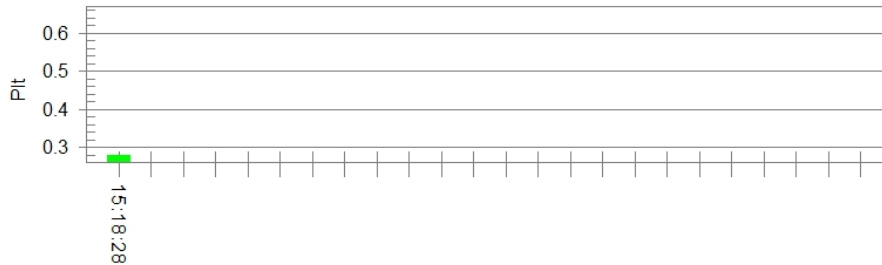
Test Result: Pass

Pst, and limit line

European Limits



Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt): 230.03

Highest dt (%):

0

T-max (mS):

0.96

Highest dc (%):

0.292

Highest Pst (10 min. period):

0.279

Highest Plt (2 hr. period):

Test limit (%):

Test limit (mS): 500.0

Pass

Test limit (%): 3.30

Pass

Test limit (%): 4.00

Pass

Test limit: 1.000

Pass

Test limit: 0.650

Pass



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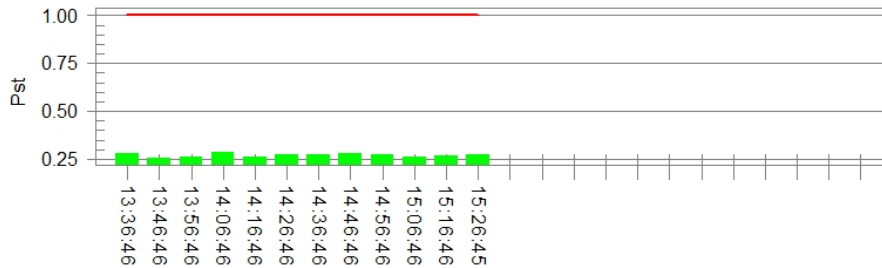
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Test Mode: 04

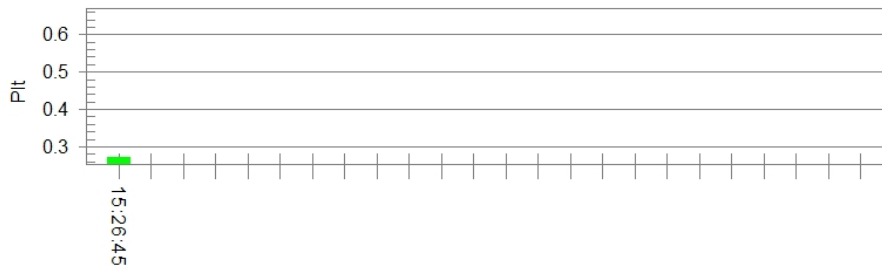
Flicker Test Summary per EN 61000-3-3: 2013 +A1:2019 +A2:2021

Test category: All parameters (European limits) Test Margin: 100
 Test duration (min): 120
 Test Result: Pass Status: Test Completed

Pst. and limit line European Limits



Pit and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.25		
Highest dt (%):		Test limit (%):	
T-max (mS):	0	Test limit (mS):	500.0 Pass
Highest dc (%):	0.00	Test limit (%):	3.30 Pass
Highest dmax (%):	0.27	Test limit (%):	4.00 Pass
Highest Pst (10 min. period):	0.295	Test limit:	1.000 Pass
Highest Pit (2 hr. period):	0.281	Test limit:	0.650 Pass



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

Test Requirement:	EN IEC 55014-1: 2021
Test Method:	CISPR 16-2-1: 2014 +A1:2017
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

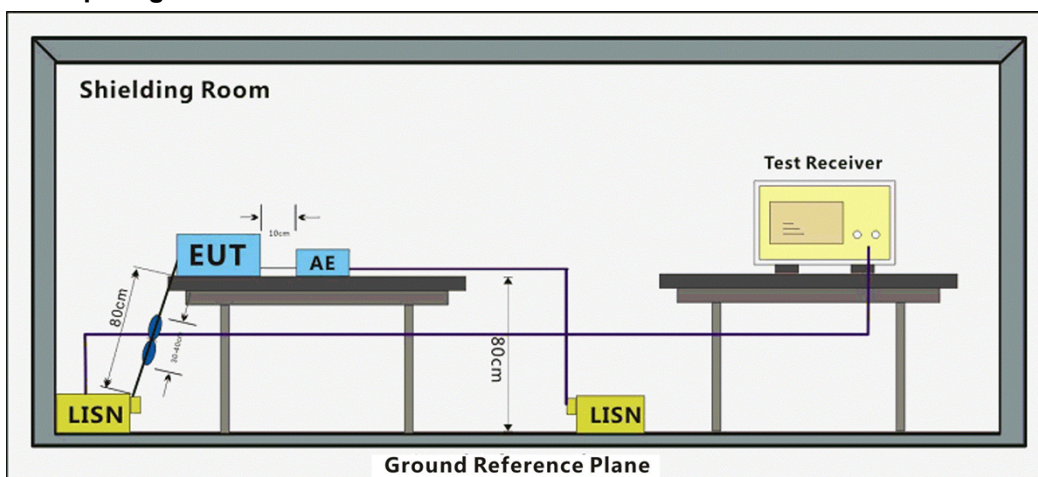
6.2.1 E.U.T. Operation

Operating Environment:	
Temperature:	26.6 °C
Humidity:	38.7 % RH
Atmospheric Pressure:	1010 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in charging + motor running mode with LED lighting & swing function on for Sample 1
Pre-scan	01	Test the EUT in charging mode for Sample 1
Final test	04	Test the EUT in charging + motor running mode for Sample 2
Pre-scan	05	Test the EUT in charging mode for Sample 2

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

Frequency Range: 150kHz to 30MHz

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

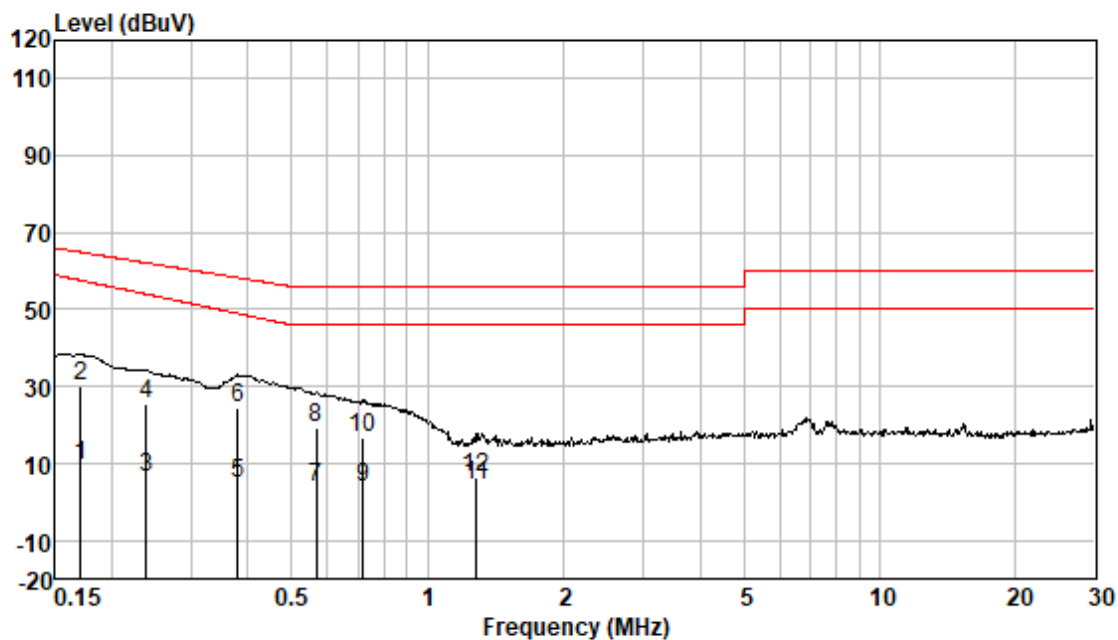
Measured Level = Read level + Cable Loss + LISN Factor



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Test Mode: 00; Line: Live line



Model :
Test Mode:00 L

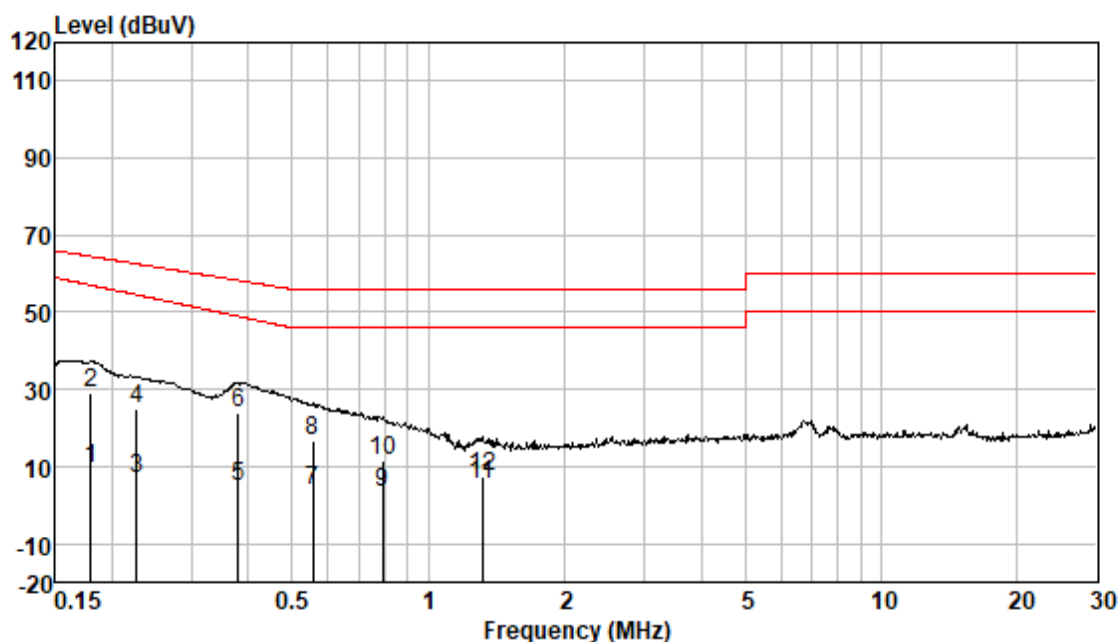
Frequency MHz	Read Level dBuV	LISN Factor dB	Cable Loss dB	Measured Level dBuV	Limit Line dBuV	Over limit dB	Remark
0.17	-0.48	9.56	0.23	9.31	57.63	-48.32	Average
0.17	20.23	9.56	0.23	30.02	64.94	-34.92	QP
0.24	-3.20	9.58	0.14	6.52	54.02	-47.50	Average
0.24	15.66	9.58	0.14	25.38	62.17	-36.79	QP
0.38	-4.74	9.59	0.15	5.00	48.99	-43.99	Average
0.38	14.55	9.59	0.15	24.29	58.30	-34.01	QP
0.57	-5.85	9.60	0.16	3.91	46.00	-42.09	Average
0.57	9.70	9.60	0.16	19.46	56.00	-36.54	QP
0.72	-6.04	9.60	0.18	3.74	46.00	-42.26	Average
0.72	6.73	9.60	0.18	16.51	56.00	-39.49	QP
1.28	-5.34	9.62	0.12	4.40	46.00	-41.60	Average
1.28	-3.47	9.62	0.12	6.27	56.00	-49.73	QP



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Test Mode: 00; Line: Neutral Line



Model :
Test Mode:00 N

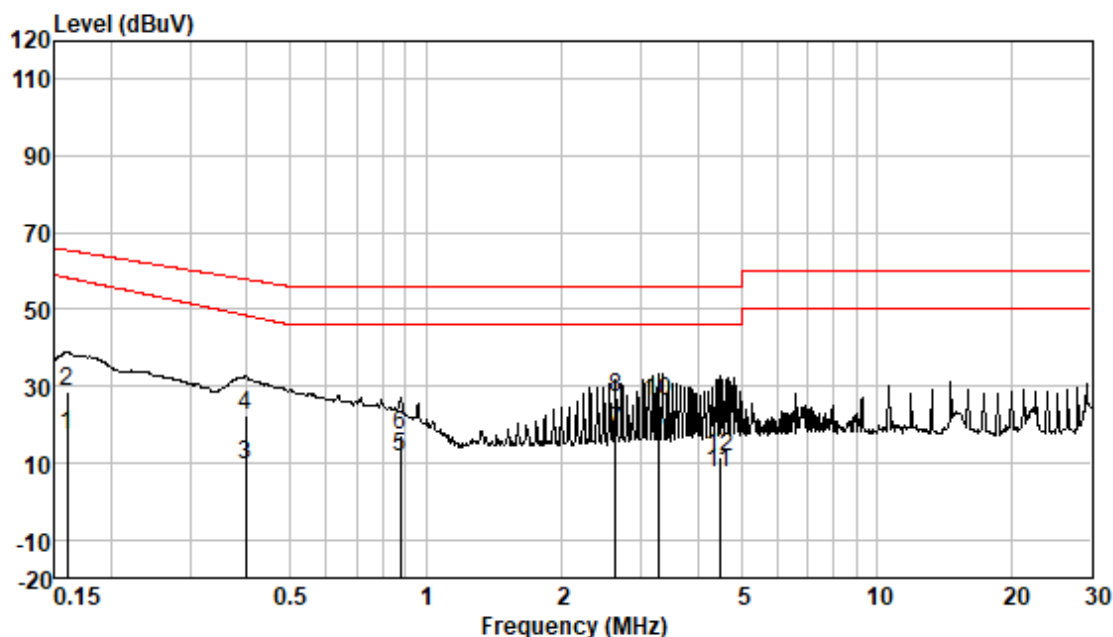
Frequency MHz	Read Level dBuV	LISN Factor dB	Cable Loss dB	Measured Level dBuv	Limit Line dBuv	Over limit dB	Remark
0.18	-0.52	9.58	0.20	9.26	57.05	-47.79	Average
0.18	19.23	9.58	0.20	29.01	64.50	-35.49	QP
0.23	-2.89	9.60	0.14	6.85	54.54	-47.69	Average
0.23	15.16	9.60	0.14	24.90	62.57	-37.67	QP
0.38	-4.79	9.61	0.15	4.97	48.99	-44.02	Average
0.38	13.92	9.61	0.15	23.68	58.30	-34.62	QP
0.56	-6.02	9.62	0.16	3.76	46.00	-42.24	Average
0.56	7.09	9.62	0.16	16.87	56.00	-39.13	QP
0.79	-6.58	9.62	0.17	3.21	46.00	-42.79	Average
0.79	1.93	9.62	0.17	11.72	56.00	-44.28	QP
1.32	-4.56	9.63	0.12	5.19	46.00	-40.81	Average
1.32	-2.50	9.63	0.12	7.25	56.00	-48.75	QP



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Test Mode: 04; Line: Live line



Model :
Test Mode:04 L

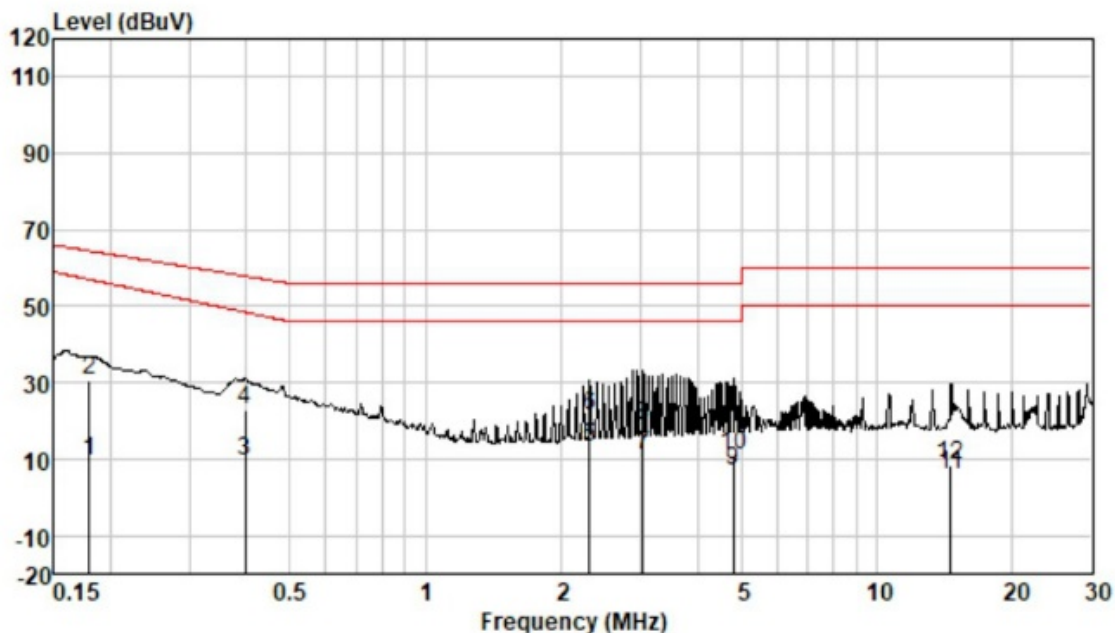
Frequency MHz	Read Level dBuV	LISN Factor dB	Cable Loss dB	Measured Level dBuv	Limit Line dBuv	Over limit dB	Remark
0.16	7.18	9.56	0.27	17.01	58.31	-41.30	Average
0.16	18.72	9.56	0.27	28.55	65.47	-36.92	QP
0.40	-0.33	9.59	0.15	9.41	48.47	-39.06	Average
0.40	12.61	9.59	0.15	22.35	57.90	-35.55	QP
0.88	1.61	9.63	0.15	11.39	46.00	-34.61	Average
0.88	7.46	9.63	0.15	17.24	56.00	-38.76	QP
2.64	8.41	9.62	0.15	18.18	46.00	-27.82	Average
2.64	17.25	9.62	0.15	27.02	56.00	-28.98	QP
3.28	7.58	9.64	0.17	17.39	46.00	-28.61	Average
3.28	15.98	9.64	0.17	25.79	56.00	-30.21	QP
4.48	-2.70	9.67	0.20	7.17	46.00	-38.83	Average
4.48	1.80	9.67	0.20	11.67	56.00	-44.33	QP



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Test Mode: 04; Line: Neutral Line



Model :
Test Mode:04 N

Frequency MHz	Read Level dBuV	LISN Factor dB	Cable Loss dB	Measured Level dBuV	Limit Line dBuV	Over limit dB	Remark
0.18	-0.38	9.58	0.20	9.40	57.05	-47.65	Average
0.18	21.03	9.58	0.20	30.81	64.50	-33.69	QP
0.40	-0.55	9.61	0.15	9.21	48.47	-39.26	Average
0.40	12.88	9.61	0.15	22.64	57.90	-35.26	QP
2.31	3.14	9.64	0.14	12.92	46.00	-33.08	Average
2.31	11.57	9.64	0.14	21.35	56.00	-34.65	QP
3.03	1.25	9.66	0.17	11.08	46.00	-34.92	Average
3.03	9.04	9.66	0.17	18.87	56.00	-37.13	QP
4.80	-3.06	9.71	0.21	6.86	46.00	-39.14	Average
4.80	1.23	9.71	0.21	11.15	56.00	-44.85	QP
14.59	-4.67	10.37	0.26	5.96	50.00	-44.04	Average
14.59	-2.47	10.37	0.26	8.16	60.00	-51.84	QP



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6.3 Disturbance Power

Test Requirement: EN IEC 55014-1: 2021
 Test Method: CISPR 16-2-2: 2010
 Limit:
 30MHz- 300MHz: 45dB(pW)-55dB(pW) quasi-peak, 35dB(pW)-45dB(pW) average
 200MHz- 300MHz: 0dB(pW)-10dB(pW) quasi-peak (reduction limit)
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 300MHz

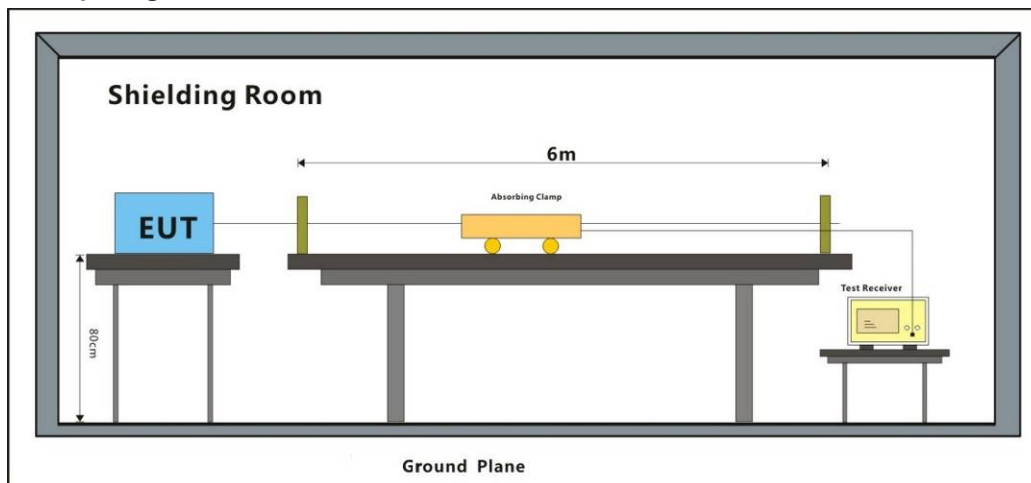
6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 26.6 °C Humidity: 38.5 % RH Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in charging + motor running mode with LED lighting & swing function on for Sample 1
Pre-scan	01	Test the EUT in charging mode for Sample 1
Final test	04	Test the EUT in charging + motor running mode for Sample 2
Pre-scan	05	Test the EUT in charging mode for Sample 2

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

Frequency Range: 30MHz to 300MHz

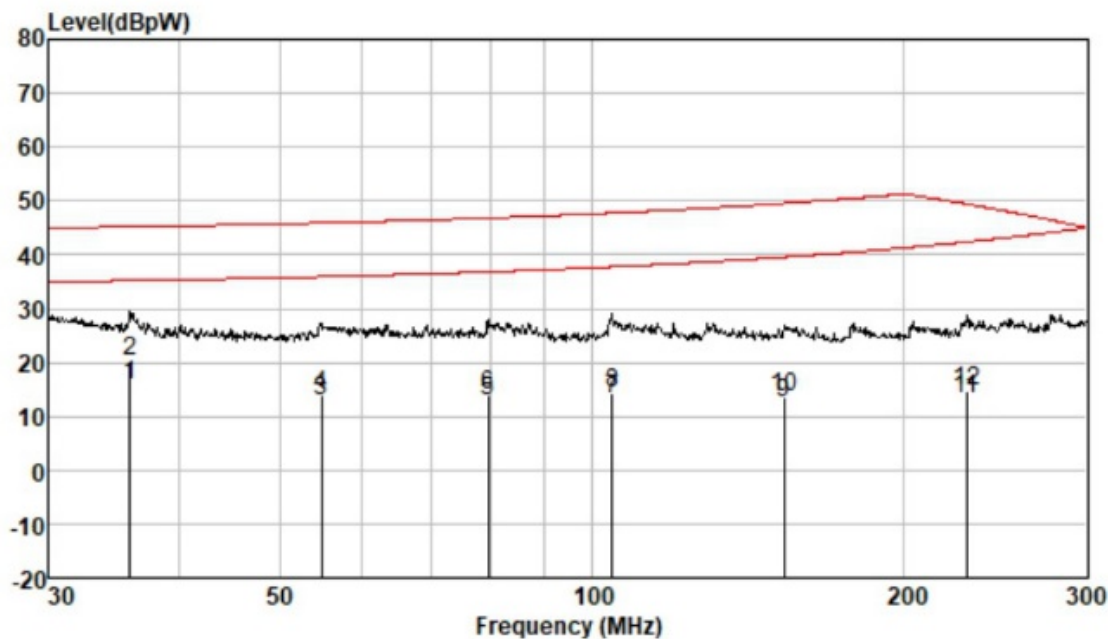
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. The red line show in graphic is the limit in standard used in this section.

Measured Level = Read level + Cable Loss + Clamp Factor



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Test Mode: 00; AC MAINS



Model: :
Test Mode:00 AC

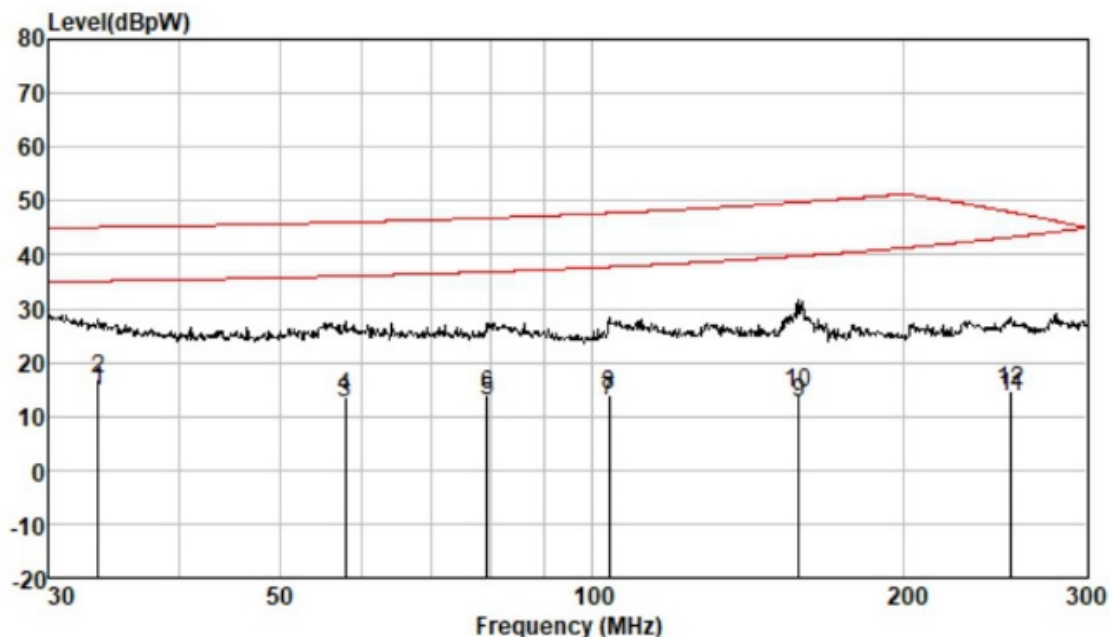
Frequency MHz	Read Level dBuv	Clamp Factor dBpW	Cable Loss dB	Measured Level dBpW	Limit Line dBpW	Over limit dB	Remark
35.90	8.20	0.63	7.02	15.85	35.22	-19.37	Average
35.90	12.41	0.63	7.02	20.06	45.22	-25.16	QP
54.84	5.06	0.40	7.30	12.76	35.92	-23.16	Average
54.84	6.25	0.40	7.30	13.95	45.92	-31.97	QP
79.46	5.70	-0.55	7.61	12.76	36.83	-24.07	Average
79.46	6.81	-0.55	7.61	13.87	46.83	-32.96	QP
104.74	5.99	-0.73	7.88	13.14	37.77	-24.63	Average
104.74	7.08	-0.73	7.88	14.23	47.77	-33.54	QP
153.15	6.27	-2.23	8.32	12.36	39.56	-27.20	Average
153.15	7.38	-2.23	8.32	13.47	49.56	-36.09	QP
229.68	6.97	-2.53	8.91	13.35	42.40	-29.05	Average
229.68	8.15	-2.53	8.91	14.53	49.43	-34.90	QP



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Test Mode: 00; DC IN



Model: :
Test Mode:00 DC IN

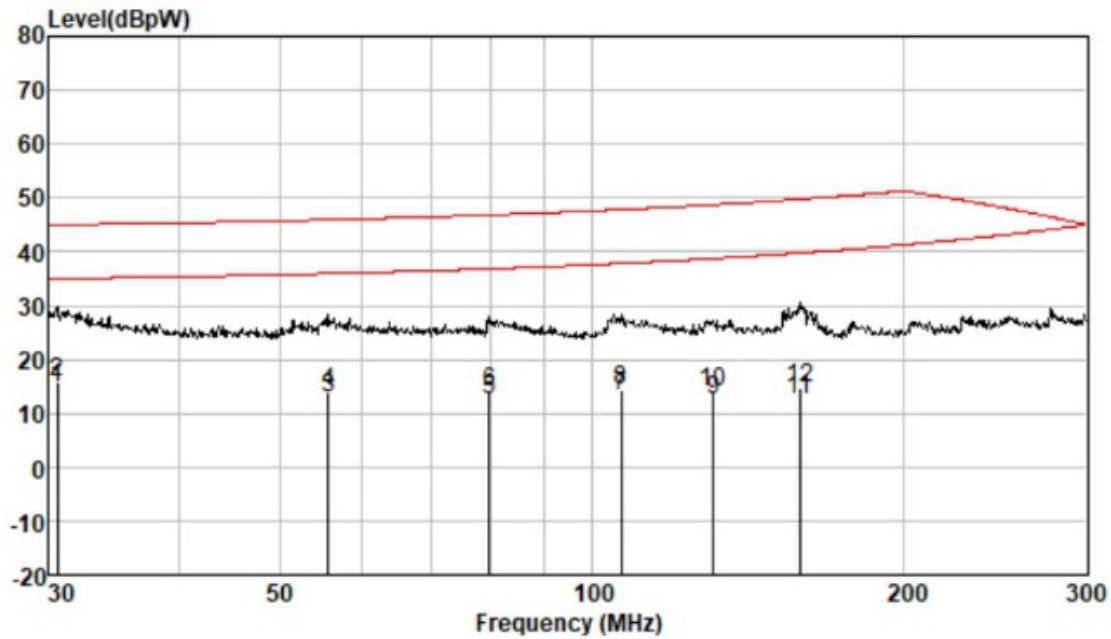
Frequency MHz	Read Level dBuv	Clamp Factor dBpW	Cable Loss dB	Measured Level dBpW	Limit Line dBpW	Over limit dB	Remark
33.43	6.66	0.98	6.99	14.63	35.13	-20.50	Average
33.43	8.91	0.98	6.99	16.88	45.13	-28.25	QP
57.83	5.17	0.03	7.34	12.54	36.03	-23.49	Average
57.83	6.32	0.03	7.34	13.69	46.03	-32.34	QP
79.27	5.65	-0.54	7.60	12.71	36.82	-24.11	Average
79.27	6.72	-0.54	7.60	13.78	46.83	-33.05	QP
104.02	5.96	-0.83	7.87	13.00	37.74	-24.74	Average
104.02	7.04	-0.83	7.87	14.08	47.74	-33.66	QP
158.17	6.37	-2.43	8.36	12.30	39.75	-27.45	Average
158.17	8.47	-2.43	8.36	14.40	49.75	-35.35	QP
253.58	6.23	-1.82	9.07	13.48	43.28	-29.80	Average
253.58	7.39	-1.82	9.07	14.64	47.92	-33.28	QP



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Test Mode: 00; DC OUT



Model: :
Test Mode:00 DC OUT

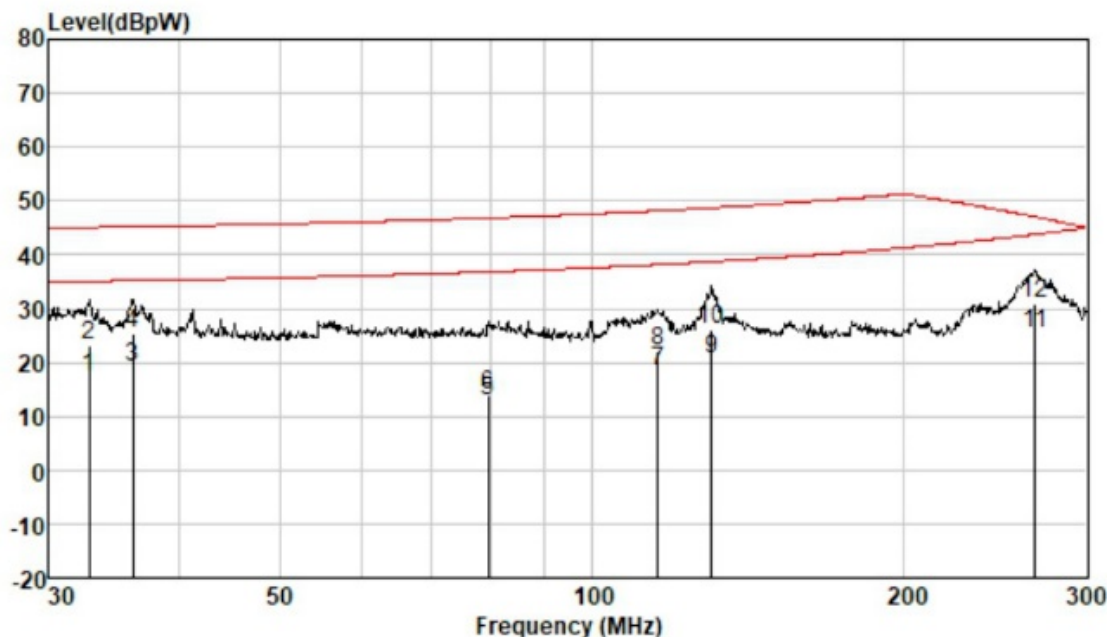
Frequency MHz	Read Level dBuv	Clamp Factor dBpW	Cable Loss dB	Measured Level dBpW	Limit Line dBpW	Over limit dB	Remark
30.56	5.74	1.91	6.93	14.58	35.02	-20.44	Average
30.56	6.90	1.91	6.93	15.74	45.02	-29.28	QP
55.73	5.11	0.33	7.31	12.75	35.95	-23.20	Average
55.73	6.29	0.33	7.31	13.93	45.95	-32.02	QP
79.64	5.61	-0.57	7.61	12.65	36.84	-24.19	Average
79.64	6.81	-0.57	7.61	13.85	46.84	-32.99	QP
106.69	5.99	-0.70	7.90	13.19	37.84	-24.65	Average
106.69	7.09	-0.70	7.90	14.29	47.84	-33.55	QP
130.95	6.41	-2.02	8.13	12.52	38.74	-26.22	Average
130.95	7.76	-2.02	8.13	13.87	48.74	-34.87	QP
158.53	6.48	-2.45	8.37	12.40	39.76	-27.36	Average
158.53	8.65	-2.45	8.37	14.57	49.76	-35.19	QP



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Test Mode: 04; AC MAINS



Model: :
Test Mode:04 AC

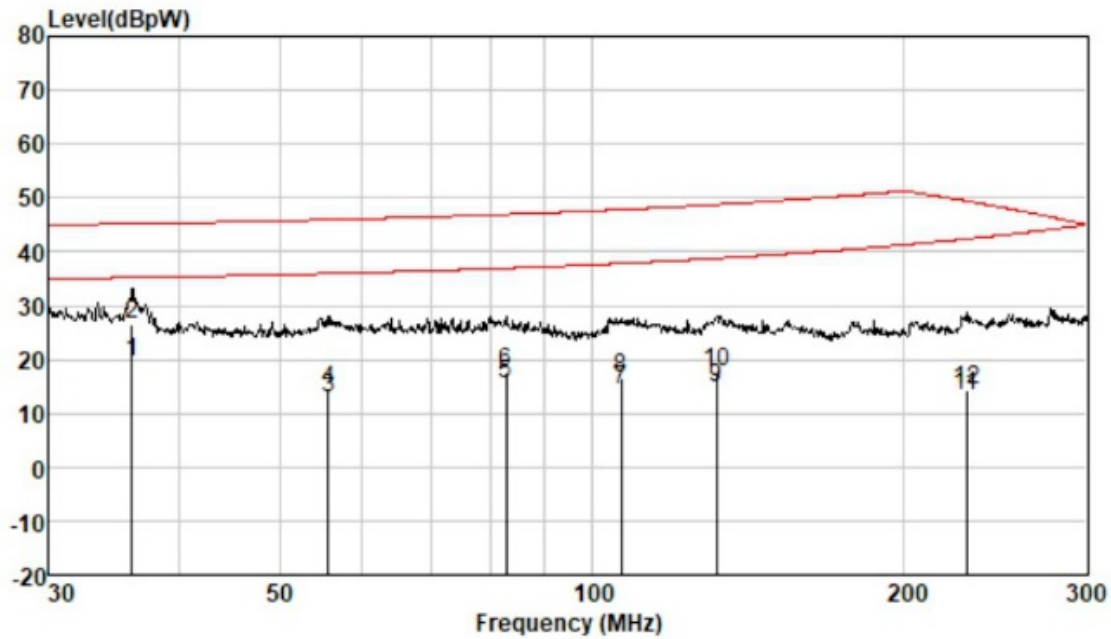
Frequency MHz	Read Level dBuv	Clamp Factor dBpW	Cable Loss dB	Measured Level dBpW	Limit Line dBpW	Over limit dB	Remark
32.82	9.13	1.17	6.98	17.28	35.10	-17.82	Average
32.82	14.85	1.17	6.98	23.00	45.10	-22.10	QP
36.15	11.35	0.60	7.02	18.97	35.23	-16.26	Average
36.15	17.75	0.60	7.02	25.37	45.23	-19.86	QP
79.46	5.72	-0.55	7.61	12.78	36.83	-24.05	Average
79.46	6.93	-0.55	7.61	13.99	46.83	-32.84	QP
115.91	11.15	-0.77	7.99	18.37	38.18	-19.81	Average
115.91	14.82	-0.77	7.99	22.04	48.18	-26.14	QP
130.35	14.52	-2.00	8.12	20.64	38.72	-18.08	Average
130.35	19.84	-2.00	8.12	25.96	48.72	-22.76	QP
267.38	18.06	-1.90	9.16	25.32	43.79	-18.47	Average
267.38	23.84	-1.90	9.16	31.10	47.06	-15.96	QP



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Test Mode: 04; DC IN



Model: :
Test Mode:04 DC IN

Frequency MHz	Read Level dBuv	Clamp Factor dBpW	Cable Loss dB	Measured Level dBpW	Limit Line dBpW	Over limit dB	Remark
36.07	11.67	0.61	7.02	19.30	35.22	-15.92	Average
36.07	18.85	0.61	7.02	26.48	45.22	-18.74	QP
55.73	5.24	0.33	7.31	12.88	35.95	-23.07	Average
55.73	6.67	0.33	7.31	14.31	45.95	-31.64	QP
82.63	8.49	-0.71	7.64	15.42	36.95	-21.53	Average
82.63	10.80	-0.71	7.64	17.73	46.95	-29.22	QP
106.69	7.29	-0.70	7.90	14.49	37.84	-23.35	Average
106.69	9.34	-0.70	7.90	16.54	47.84	-31.30	QP
131.86	8.47	-2.03	8.13	14.57	38.77	-24.20	Average
131.86	11.39	-2.03	8.13	17.49	48.77	-31.28	QP
229.68	7.00	-2.53	8.91	13.38	42.40	-29.02	Average
229.68	8.08	-2.53	8.91	14.46	49.43	-34.97	QP

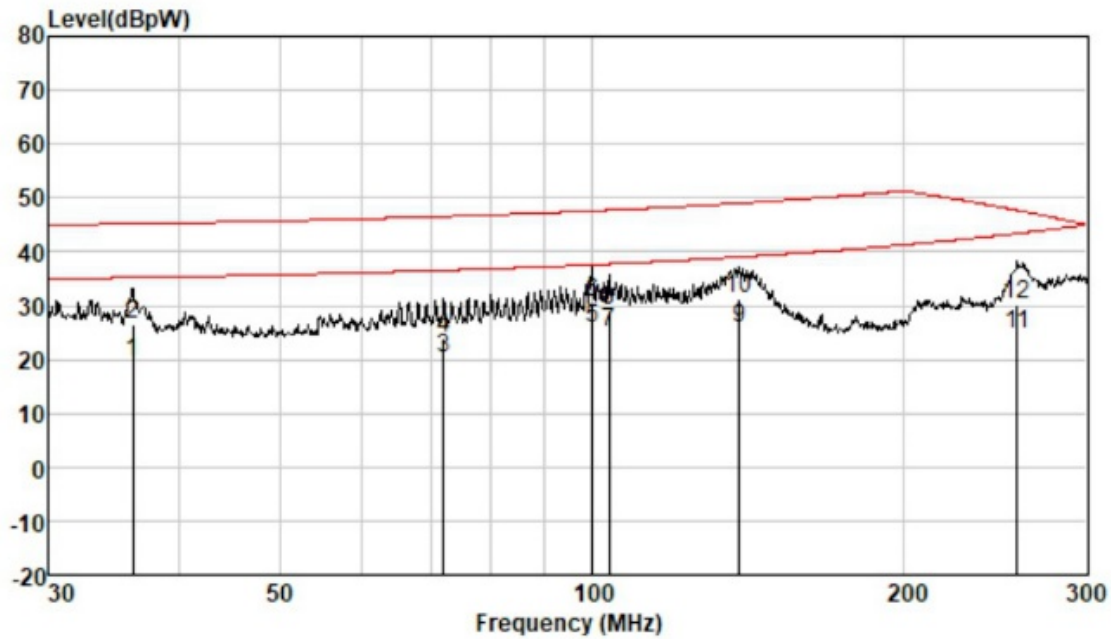


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Test Mode: 04; DC OUT



Model: :
Test Mode:04 DC OUT

Frequency MHz	Read Level dBuv	Clamp Factor dBpW	Cable Loss dB	Measured Level dBpW	Limit Line dBpW	Over limit dB	Remark
36.15	12.04	0.60	7.02	19.66	35.23	-15.57	Average
36.15	18.93	0.60	7.02	26.55	45.23	-18.68	QP
71.96	12.93	-0.06	7.51	20.38	36.55	-16.17	Average
71.96	16.35	-0.06	7.51	23.80	46.56	-22.76	QP
100.03	19.46	-1.50	7.83	25.79	37.59	-11.80	Average
100.03	24.24	-1.50	7.83	30.57	47.60	-17.03	QP
104.02	18.07	-0.83	7.87	25.11	37.74	-12.63	Average
104.02	22.12	-0.83	7.87	29.16	47.74	-18.58	QP
138.71	19.65	-2.10	8.19	25.74	39.03	-13.29	Average
138.71	25.24	-2.10	8.19	31.33	49.03	-17.70	QP
257.11	17.22	-1.84	9.10	24.48	43.41	-18.93	Average
257.11	23.04	-1.84	9.10	30.30	47.70	-17.40	QP



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6.4 Radiated Emissions (30MHz-1GHz)

Test Requirement:	EN IEC 55014-1: 2021
Test Method:	CISPR 16-2-3: 2016 +A1:2019 +A2:2023
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) 30M to 1000MHZ
Test Distance:	3m
30MHz-230MHz	40 dB(μV/m) quasi-peak
230MHz-1GHz	47 dB(μV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHZ

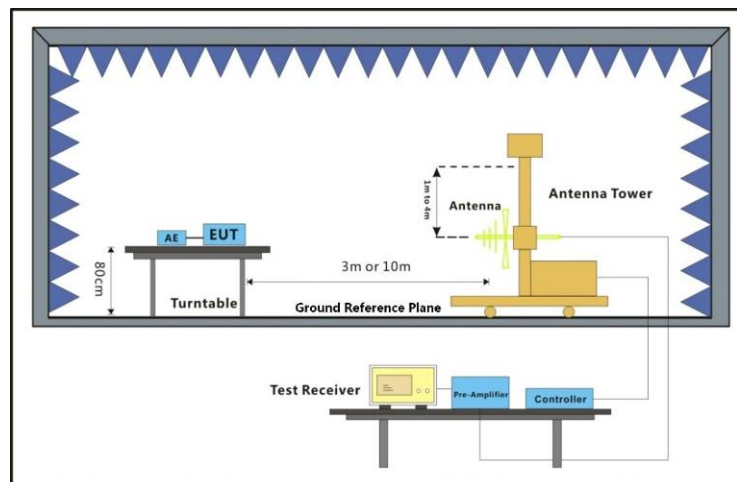
6.4.1 E.U.T. Operation

Operating Environment:			
Temperature:	24.3 °C	Humidity:	48.6 % RH
		Atmospheric Pressure:	1010 mbar

6.4.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	Description
Final test 02	Test the EUT in motor running mode with LED lighting & swing function on for Sample 1
Final test 06	Test the EUT in motor running mode for Sample 2

6.4.3 Test Setup Diagram



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6.4.4 Measurement Procedure and Data

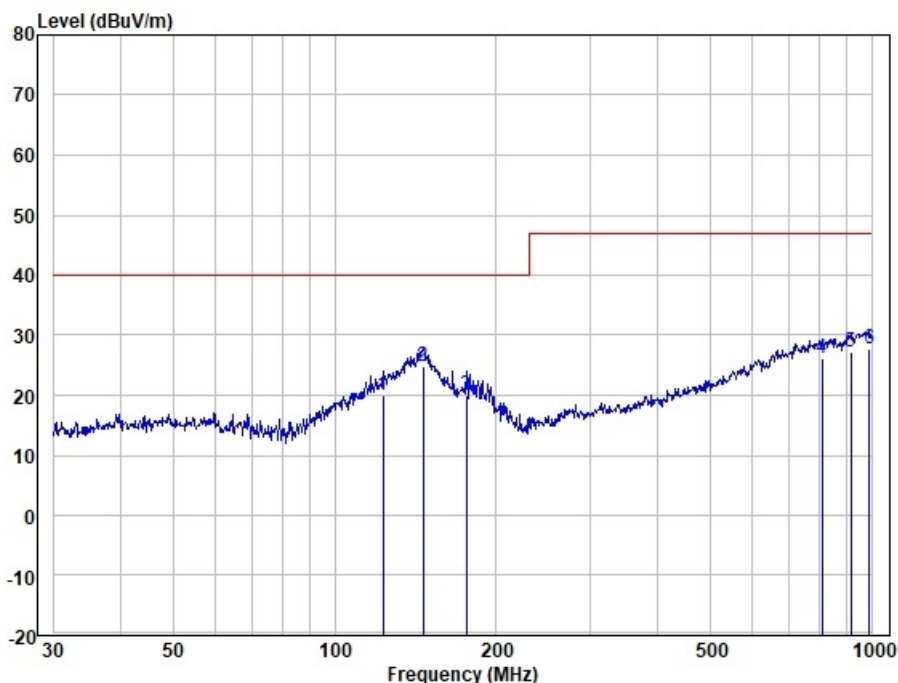
Frequency Range: 30MHz to 1GHz

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

Test Mode: 02; Polarity: Horizontal



Site : 966 Chamber
 job :
 Model :
 Power :
 Test Mode :

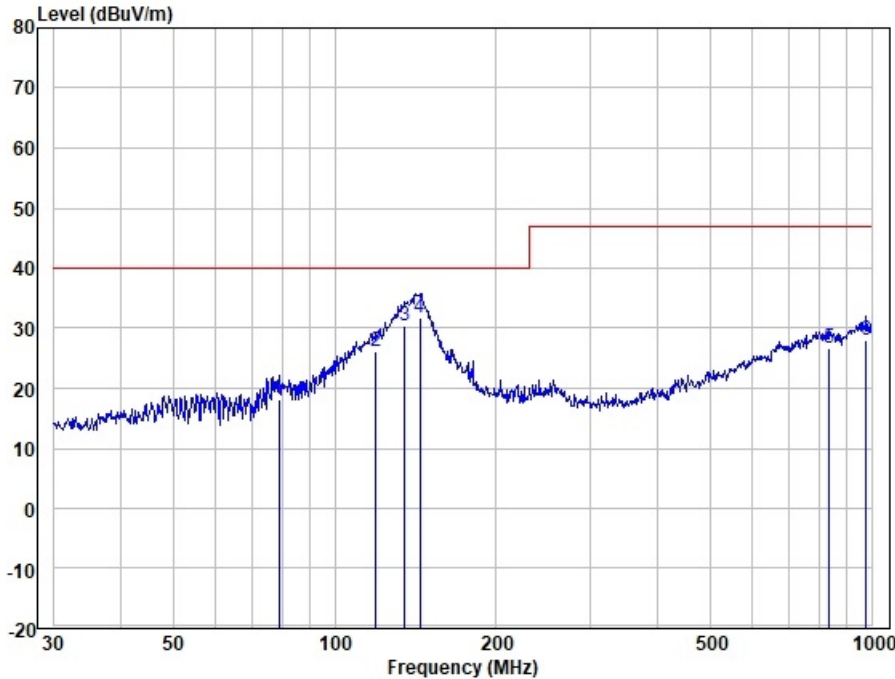
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	123.266	34.94	17.17	0.60	32.71	20.00	-20.00	HORIZONTAL	QP
2	146.374	37.83	19.00	0.66	32.74	40.00	-15.25	HORIZONTAL	QP
3	175.652	34.12	18.04	0.74	32.79	40.00	-19.89	HORIZONTAL	QP
4	807.429	27.27	28.89	1.66	31.60	47.00	-20.78	HORIZONTAL	QP
5	912.862	27.08	29.31	1.77	30.96	47.00	-19.80	HORIZONTAL	QP
6	989.536	26.38	30.08	1.84	30.66	47.00	-19.36	HORIZONTAL	QP



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Test Mode: 02; Polarity: Vertical



Site : 966 Chamber
 job :
 Model :
 Power :
 Test Mode :

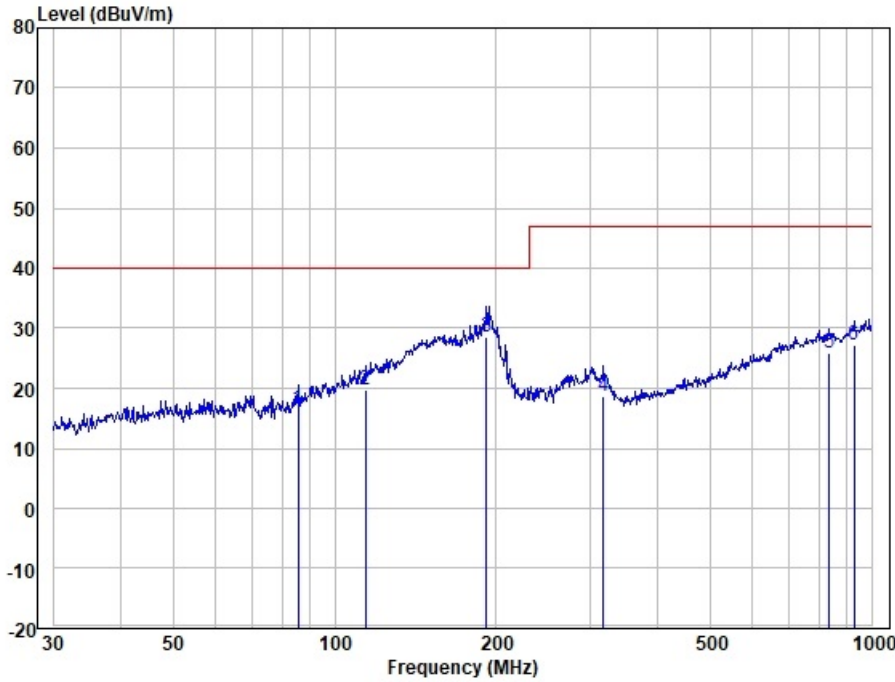
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	78.689	35.10	15.37	0.50	32.73	18.24	40.00	-21.76	VERTICAL	QP
2	119.436	41.45	16.87	0.60	32.71	26.21	40.00	-13.79	VERTICAL	QP
3	135.032	44.13	18.36	0.63	32.73	30.39	40.00	-9.61	VERTICAL	QP
4	144.335	44.97	18.93	0.65	32.74	31.81	40.00	-8.19	VERTICAL	QP
5	833.317	27.51	29.14	1.68	31.54	26.79	47.00	-20.21	VERTICAL	QP
6	975.753	26.65	30.14	1.83	30.69	27.93	47.00	-19.07	VERTICAL	QP



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Test Mode: 06; Polarity: Horizontal



Site : 966 Chamber
 job :
 Model :
 Power :
 Test Mode :

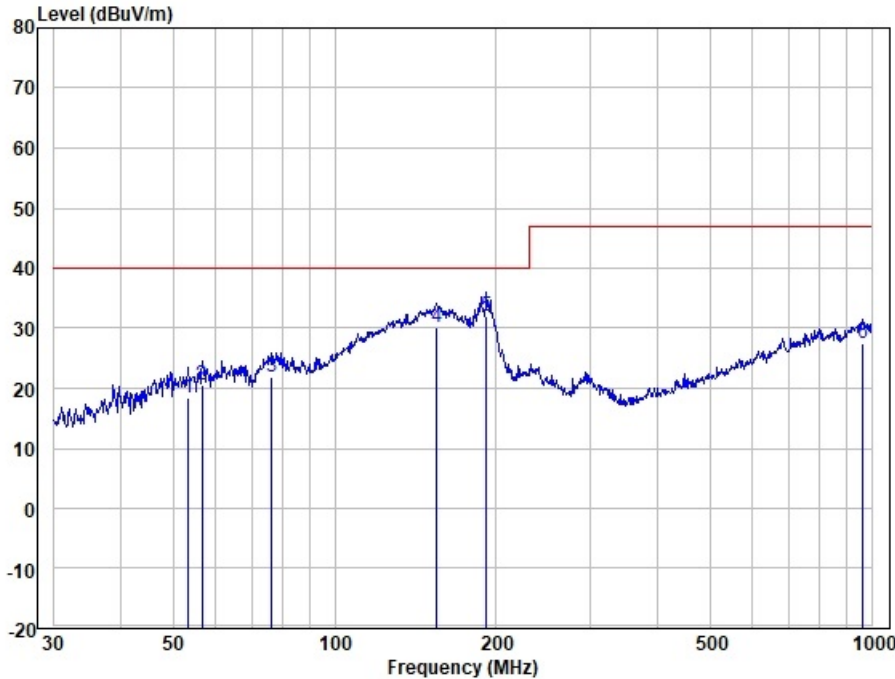
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	85.598	34.70	13.97	0.51	32.72	16.46	40.00	-23.54	HORIZONTAL	QP
2	114.114	35.49	16.42	0.58	32.71	19.78	40.00	-20.22	HORIZONTAL	QP
3	191.745	44.41	16.17	0.78	32.81	28.55	40.00	-11.45	HORIZONTAL	QP
4	316.589	30.76	19.77	1.00	32.87	18.66	47.00	-28.34	HORIZONTAL	QP
5	833.317	26.65	29.14	1.68	31.54	25.93	47.00	-21.07	HORIZONTAL	QP
6	925.756	26.50	29.69	1.77	30.87	27.09	47.00	-19.91	HORIZONTAL	QP



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Test Mode: 06; Polarity: Vertical



Site : 966 Chamber
 job :
 Model :
 Power :
 Test Mode :

	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	53.505	31.30	19.54	0.40	32.79	18.45	40.00	-21.55	VERTICAL	QP
2	56.593	33.54	19.30	0.40	32.78	20.46	40.00	-19.54	VERTICAL	QP
3	76.244	38.34	15.85	0.48	32.74	21.93	40.00	-18.07	VERTICAL	QP
4	154.821	43.00	19.18	0.69	32.77	30.10	40.00	-9.90	VERTICAL	QP
5	191.745	47.78	16.17	0.78	32.81	31.92	40.00	-8.08	VERTICAL	QP
6	962.162	26.25	30.12	1.82	30.73	27.46	47.00	-19.54	VERTICAL	QP



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6.5 Harmonic Current Emission

Test Requirement: EN IEC 61000-3-2: 2019 +A1:2021 +A2:2024

Test Method: EN IEC 61000-3-2: 2019 +A1:2021 +A2:2024

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

Performance Criteria Description

- Criterion A:** The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. 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 from what the user may reasonably expect from the apparatus if used as intended.
- Criterion B:** The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however. No change of actual operating state or stored data is allowed. 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 from what the user may reasonably expect from the apparatus if used as intended.
- Criterion C:** Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.



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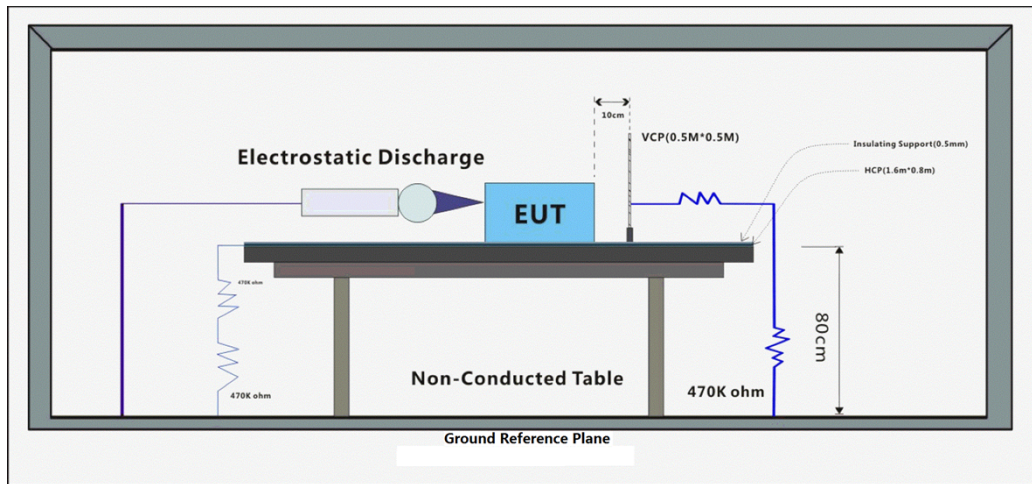
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7.1 Electrostatic Discharge

Test Requirement: EN IEC 55014-2: 2021

Test Method: EN 61000-4-2: 2009

7.1.1 Test Setup Diagram



7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

Humidity: 48.5 % RH

Atmospheric Pressure: 1010 mbar

7.1.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in charging + motor running mode with LED lighting & swing function on for Sample 1
Final test	01	Test the EUT in charging mode for Sample 1
Final test	02	Test the EUT in motor running mode with LED lighting & swing function on for Sample 1
Final test	03	Test the EUT in idle mode for Sample 1
Final test	04	Test the EUT in charging + motor running mode for Sample 2
Final test	05	Test the EUT in charging mode for Sample 2
Final test	06	Test the EUT in motor running mode for Sample 2
Final test	07	Test the EUT in idle mode for Sample 2



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7.1.4 Test Condition and Results:

Performance Criterion: B
 Discharge Impedance: 330 Ω / 150 pF
 Discharge Voltage: Air Discharge: 8 kV; Contact Discharge:4 kV; VCP/HCP: 4 kV.
 Polarity: Positive & Negative
 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	8	+	1	A
Air Discharge	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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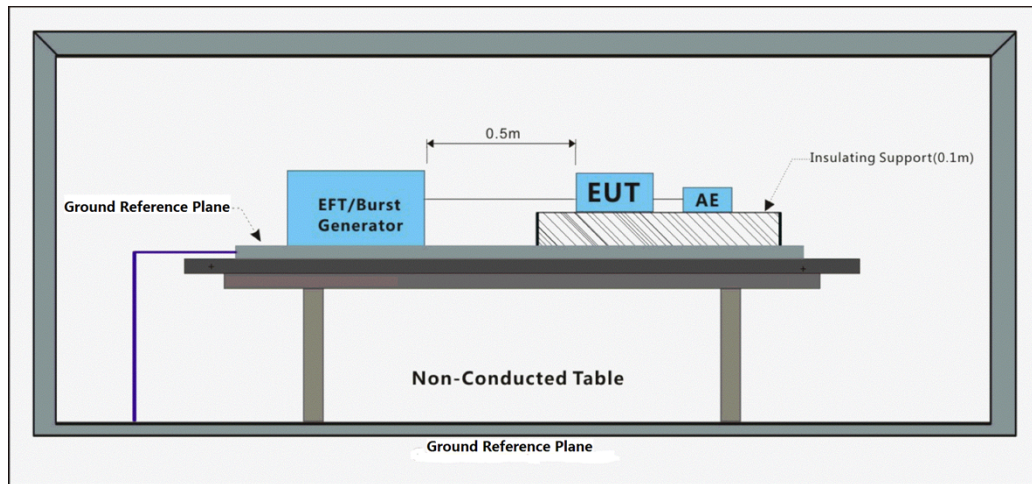
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7.2 Electrical Fast Transients Burst at AC Mains Power Port

Test Requirement: EN IEC 55014-2: 2021

Test Method: EN 61000-4-4: 2012

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

Humidity: 48.8 % RH

Atmospheric Pressure: 1010 mbar

7.2.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in charging + motor running mode with LED lighting & swing function on for Sample 1
Final test	01	Test the EUT in charging mode for Sample 1
Final test	03	Test the EUT in idle mode for Sample 1
Final test	04	Test the EUT in charging + motor running mode for Sample 2
Final test	05	Test the EUT in charging mode for Sample 2
Final test	07	Test the EUT in idle mode for Sample 2

7.2.4 Test Condition and Results:

Performance Criterion: B

Repetition Frequency: 5kHz

Burst Period: 300ms

Test Duration: 2 minute per level & polarity

Test Level: 1.0kV

Polarity: Positive & Negative



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Port	Level (kV)	Polarity	Repetition Frequency:	CDN/Clamp	Result / Observations
AC power port	1	+	5kHz	CDN	A
AC power port	1	-	5kHz	CDN	A

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



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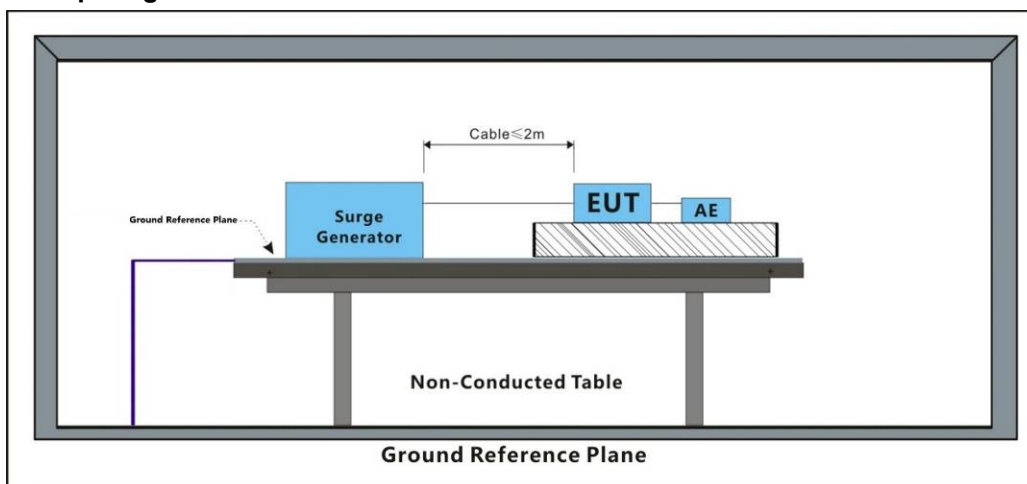
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7.3 Surge at AC Mains Power Port

Test Requirement: EN IEC 55014-2: 2021

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

7.3.1 Test Setup Diagram



7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 48.8 % RH Atmospheric Pressure: 1010 mbar

7.3.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in charging + motor running mode with LED lighting & swing function on for Sample 1
Final test	01	Test the EUT in charging mode for Sample 1
Final test	03	Test the EUT in idle mode for Sample 1
Final test	04	Test the EUT in charging + motor running mode for Sample 2
Final test	05	Test the EUT in charging mode for Sample 2
Final test	07	Test the EUT in idle mode for Sample 2

7.3.4 Test Condition and Results:

Performance Criterion: B

Interval: 60s between each surge

Test Level: $\pm 1kV$ Live to Neutral; $\pm 2kV$ Live, Neutral to Earth

Polarity: Positive & Negative

Generator source impedance: 2Ω

CDN coupling impedance(Line-to-ground): 10Ω

Trigger Mode: Internal

No. of surges: 5 positive at 90° , 5 negative at 270° .



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Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	90°	A
L-N	1	-	270°	A

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



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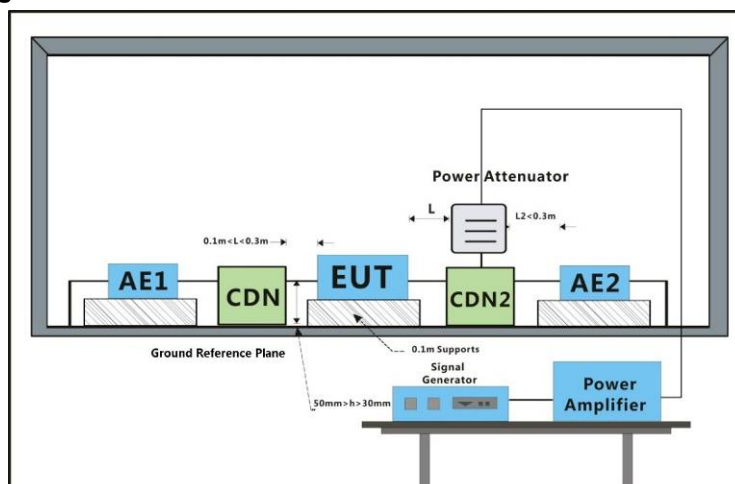
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7.4 Conducted Immunity at AC Mains Power Port (150kHz-230MHz)

Test Requirement: EN IEC 55014-2: 2021

Test Method: EN IEC 61000-4-6: 2023

7.4.1 Test Setup Diagram



7.4.2 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C

Humidity: 49.0 % RH

Atmospheric Pressure: 1010 mbar

7.4.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in charging + motor running mode with LED lighting & swing function on for Sample 1
Final test	01	Test the EUT in charging mode for Sample 1
Final test	03	Test the EUT in idle mode for Sample 1
Final test	04	Test the EUT in charging + motor running mode for Sample 2
Final test	05	Test the EUT in charging mode for Sample 2
Final test	07	Test the EUT in idle mode for Sample 2

7.4.4 Test Condition and Results:

Performance Criterion: A

Step Size: 1%

Frequency Range: 0.15MHz to 230MHz

Modulation: 80%, 1kHz Amplitude Modulation



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Cable Port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	3	CDN	2s	A
A: No degradation in the performance of the EUT was observed				



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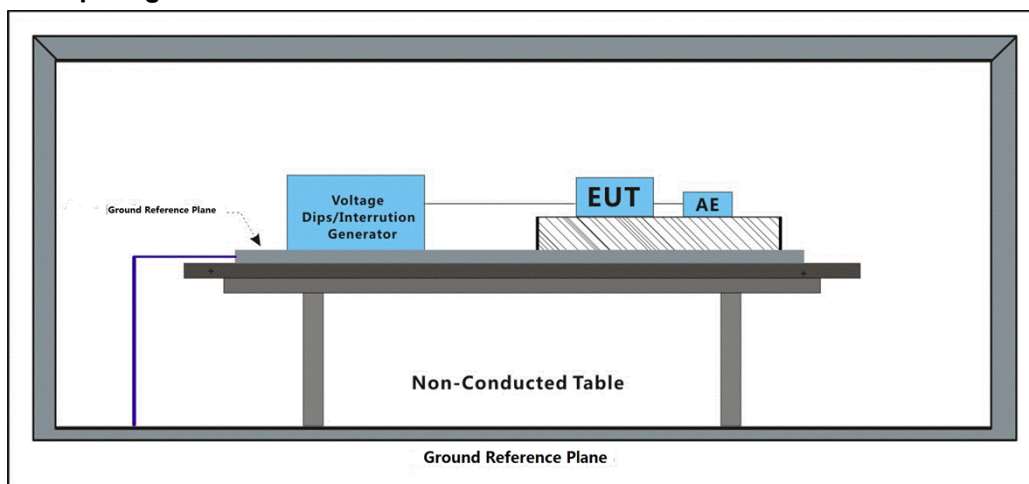
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7.5 Voltage Dips and Interruptions

Test Requirement: EN IEC 55014-2: 2021

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

7.5.1 Test Setup Diagram



7.5.2 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 48.9 % RH Atmospheric Pressure: 1010 mbar

7.5.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in charging + motor running mode with LED lighting & swing function on for Sample 1
Final test	01	Test the EUT in charging mode for Sample 1
Final test	03	Test the EUT in idle mode for Sample 1
Final test	04	Test the EUT in charging + motor running mode for Sample 2
Final test	05	Test the EUT in charging mode for Sample 2
Final test	07	Test the EUT in idle mode for Sample 2

7.5.4 Test Condition and Results:

Performance Criterion:

For 50Hz: 0% of UT (Rated Voltage) for 0.5 Cycle: C; 40% of UT for 10 Cycles: C; 70% of UT for 25 Cycles: C.

No. of Dips / Interruptions: 3 per Level

Time between dropout: 10s



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Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Cycle for 50Hz	3	A
0	180°	0.5 Cycle for 50Hz	3	A
40	0°	10 Cycles for 50Hz	3	A
40	180°	10 Cycles for 50Hz	3	A
70	0°	25 Cycles for 50Hz	3	B
70	180°	25 Cycles for 50Hz	3	B

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

B: During test, the motor running speed slow down, but it could recover automatically after test.



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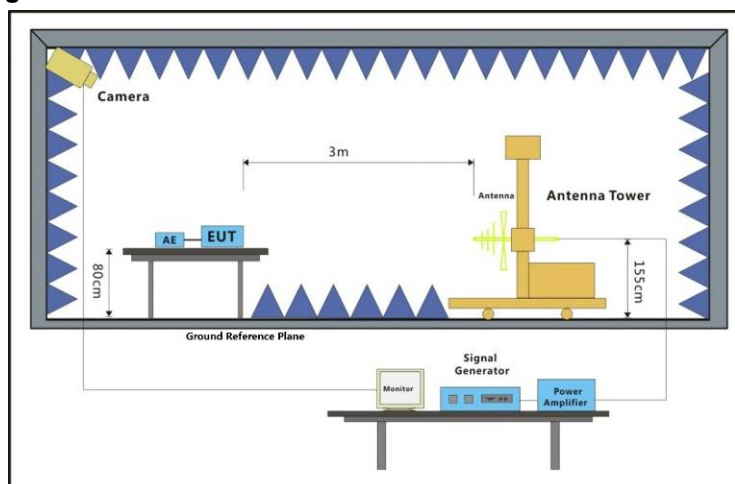
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7.6 Radiated Immunity (80MHz-1GHz)

Test Requirement: EN IEC 55014-2: 2021

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

7.6.1 Test Setup Diagram



7.6.2 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 50.2 % RH Atmospheric Pressure: 1010 mbar

7.6.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	Test the EUT in motor running mode with LED lighting & swing function on for Sample 1
Final test	03	Test the EUT in idle mode for Sample 1
Final test	06	Test the EUT in motor running mode for Sample 2
Final test	07	Test the EUT in idle mode for Sample 2

7.6.4 Test Condition and Results:

Performance Criterion: A

Frequency Range: 80MHz to 1GHz

Antenna Polarisation: Vertical and Horizontal

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



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Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	2s	A
80MHz-1GHz	3	Back	2s	A
80MHz-1GHz	3	Left	2s	A
80MHz-1GHz	3	Right	2s	A
80MHz-1GHz	3	Top	2s	A
80MHz-1GHz	3	Underside	2s	A

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



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8 Test Setup Photo

Voltage Fluctuations and Flicker

For sample 1



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For sample 2



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

For sample 1



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Disturbance Power

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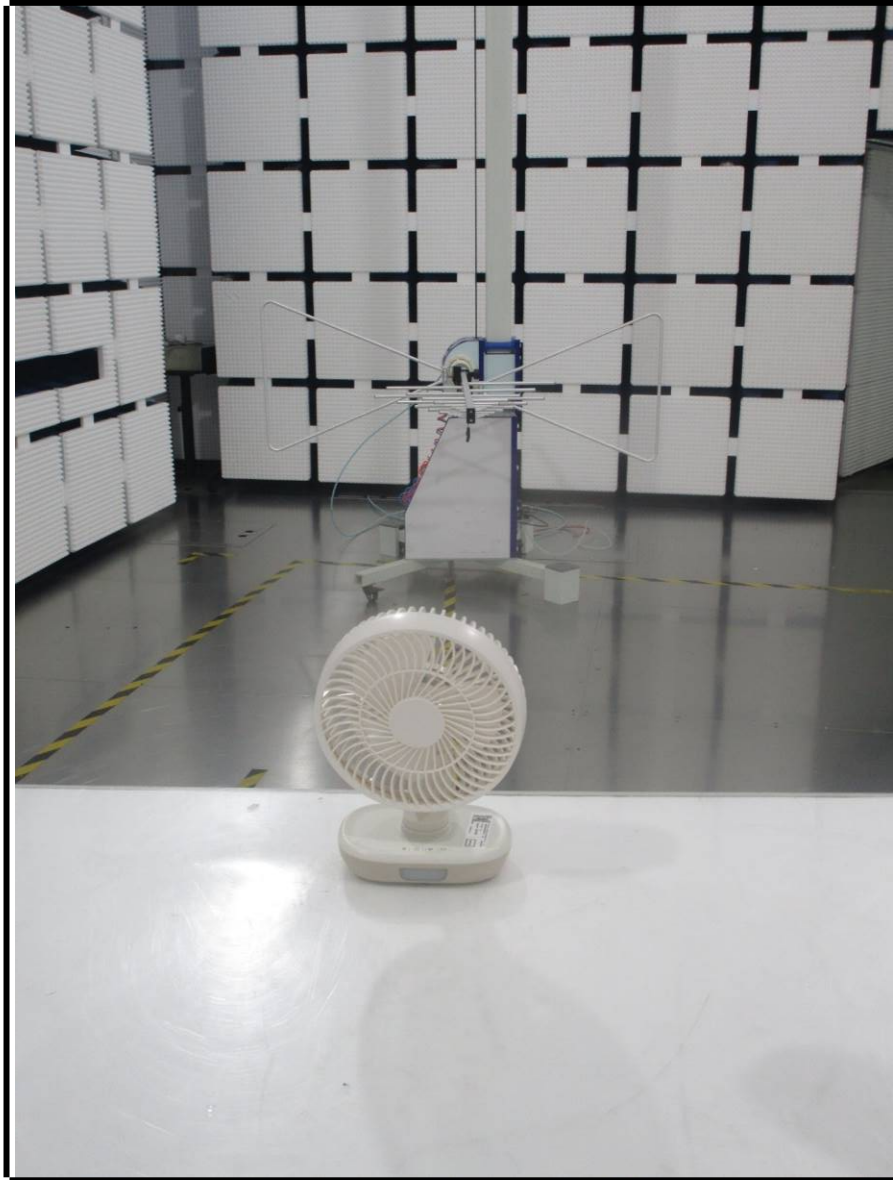
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Radiated Emissions (30MHz-1GHz)

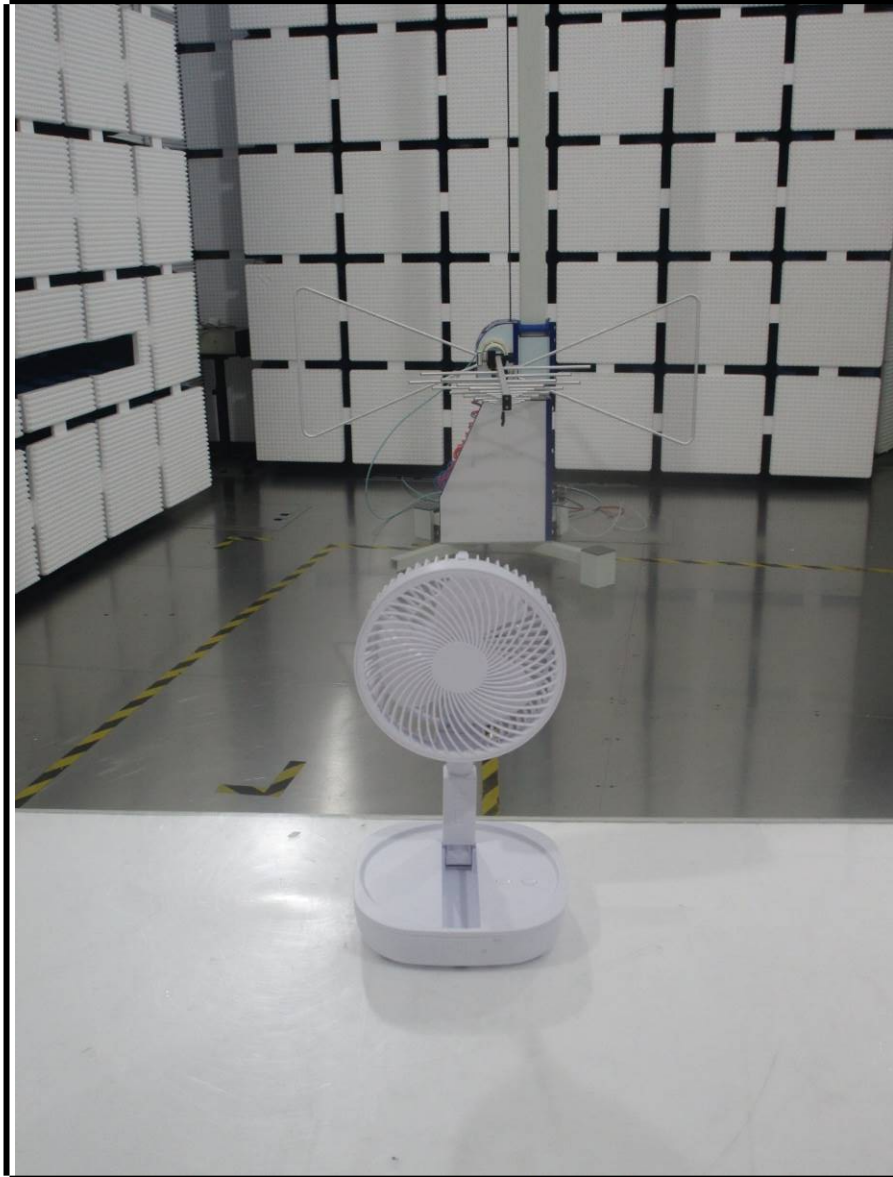
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Electrostatic Discharge

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For sample 2



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Electrical Fast Transients Burst at AC Mains Power Port

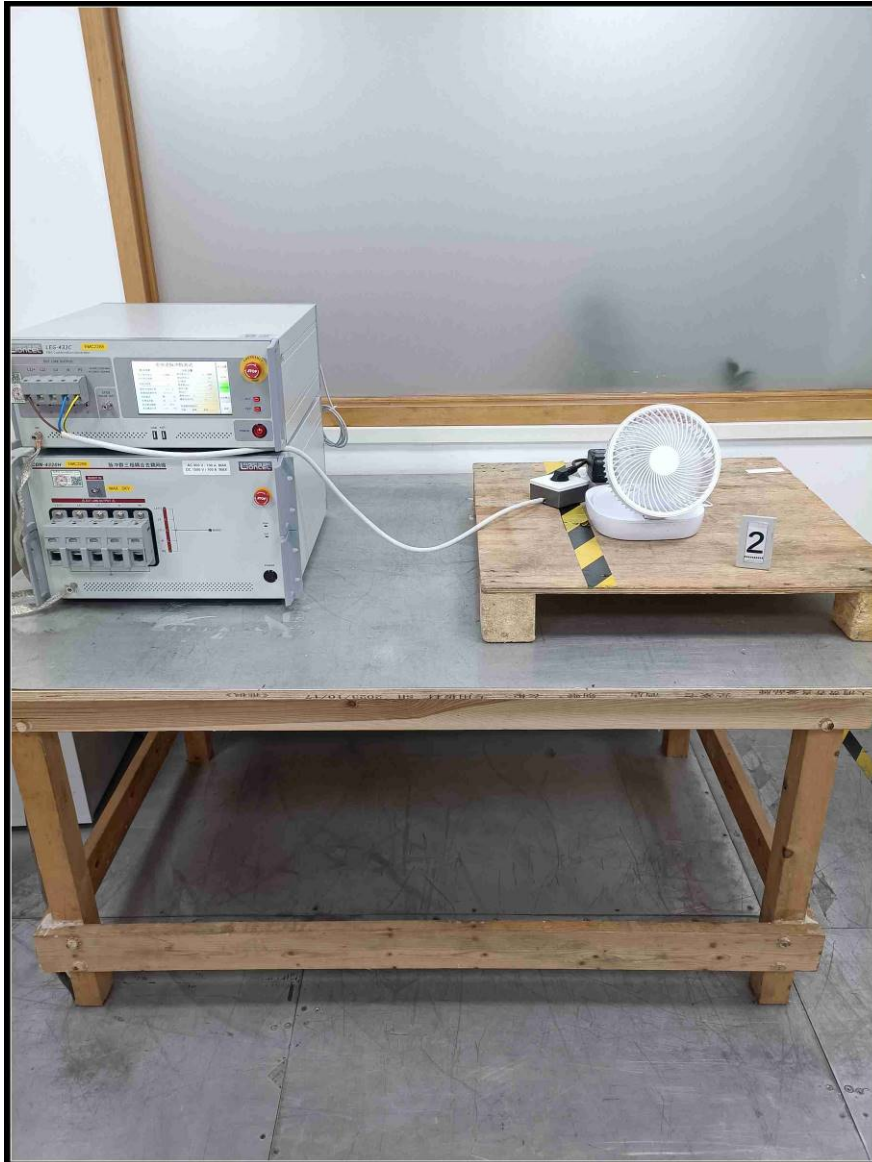
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Surge at AC Mains Power Port

For sample 1



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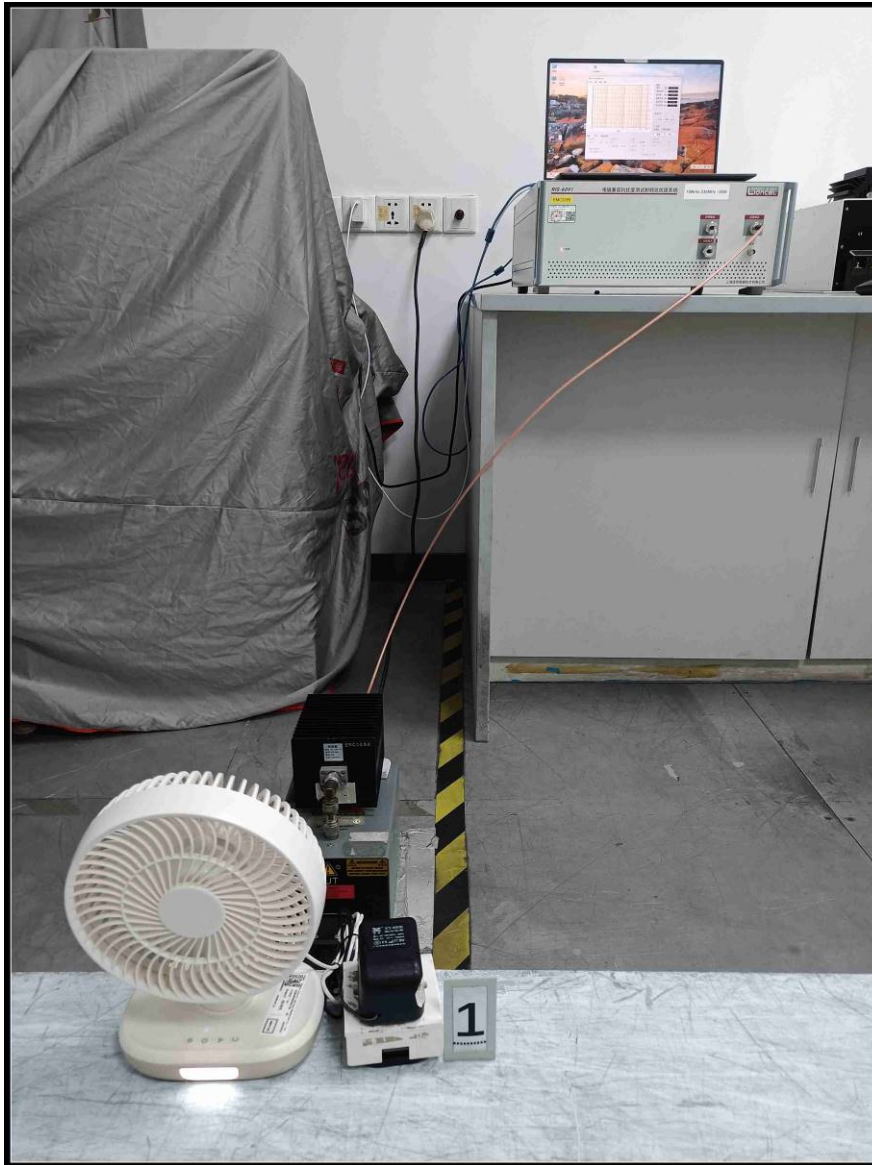
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Conducted Immunity at AC Mains Power Port (150kHz-230MHz)

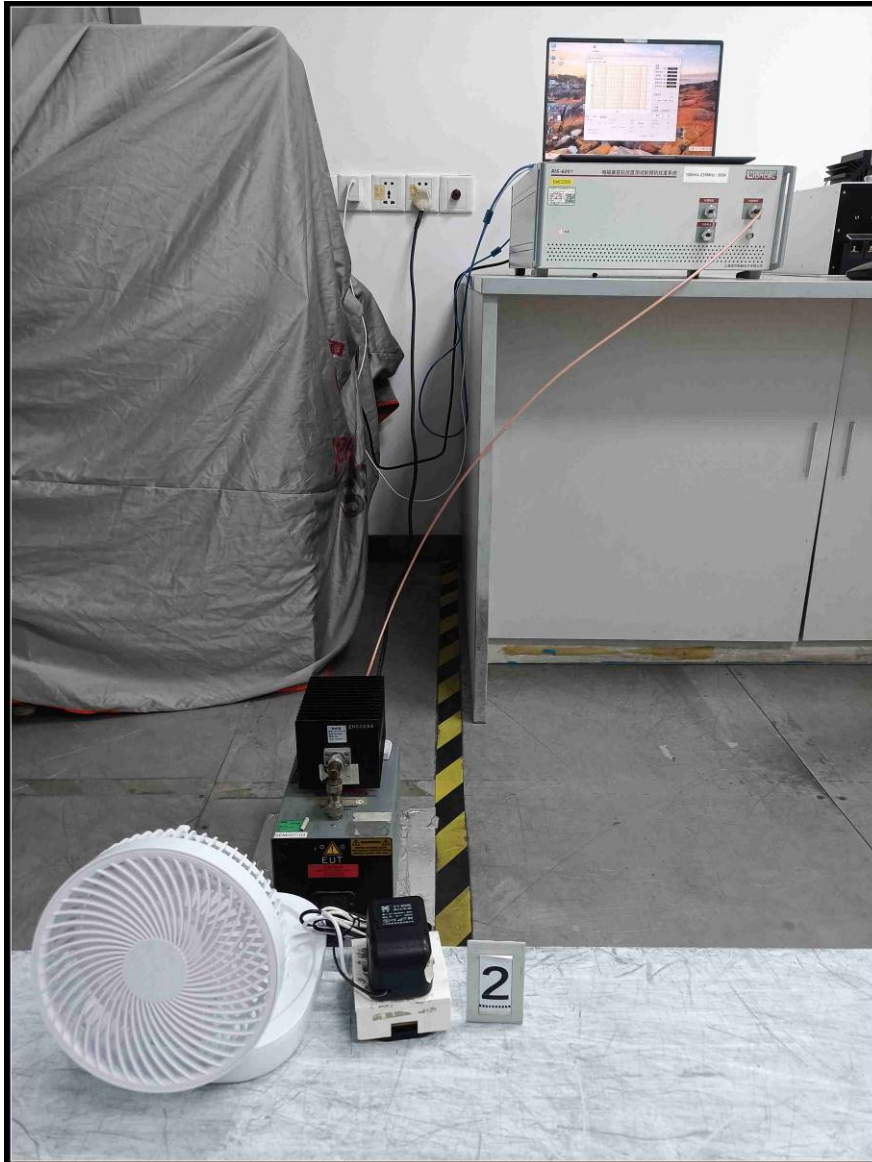
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Voltage Dips and Interruptions

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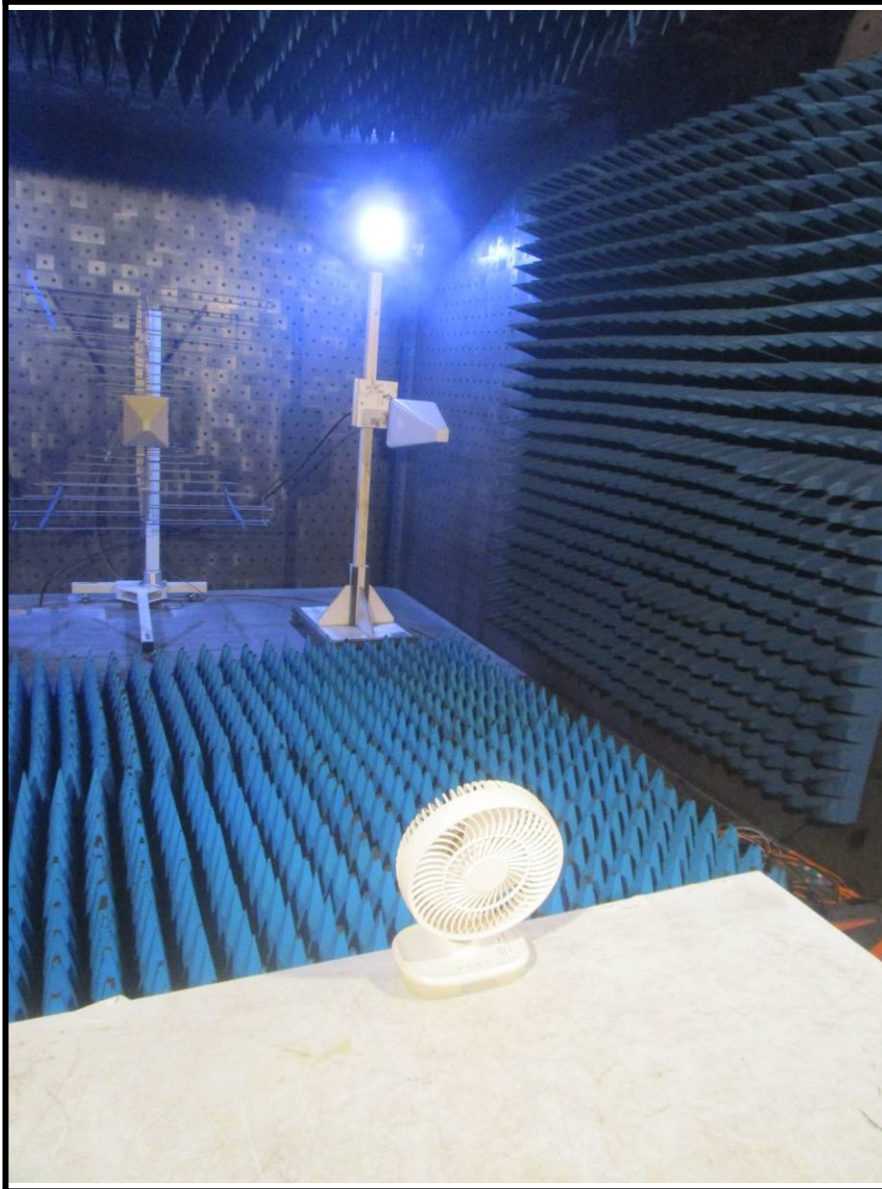
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Radiated Immunity (80MHz-1GHz)

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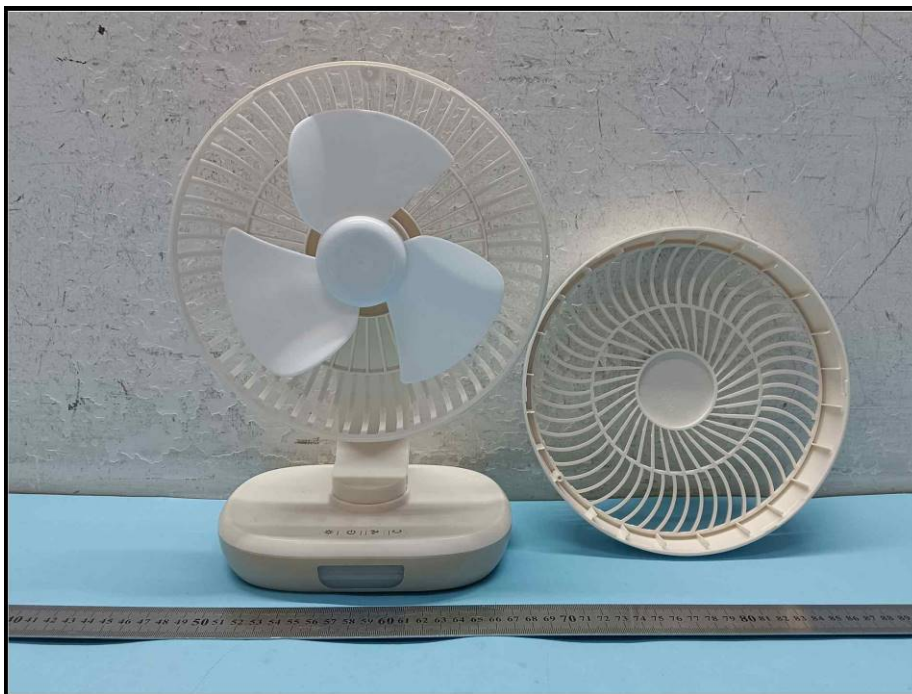
9 EUT Constructional Details (EUT Photos)

For sample 1



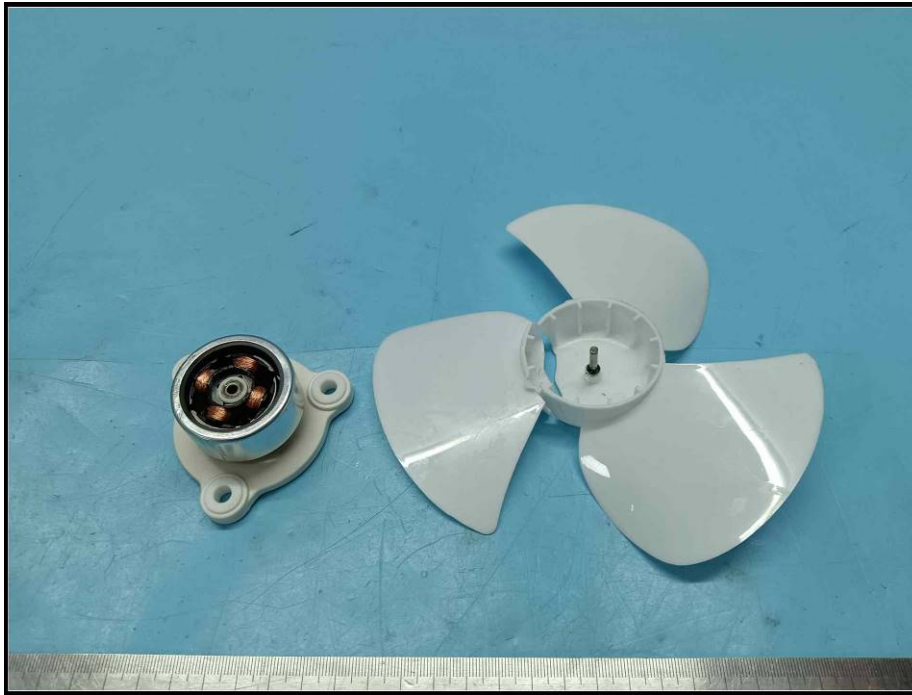
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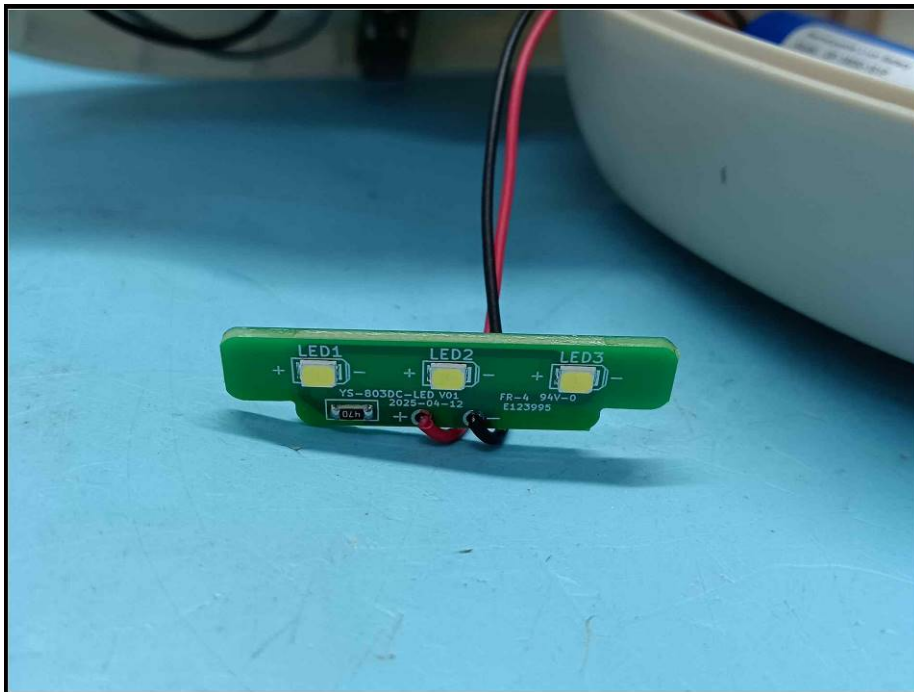
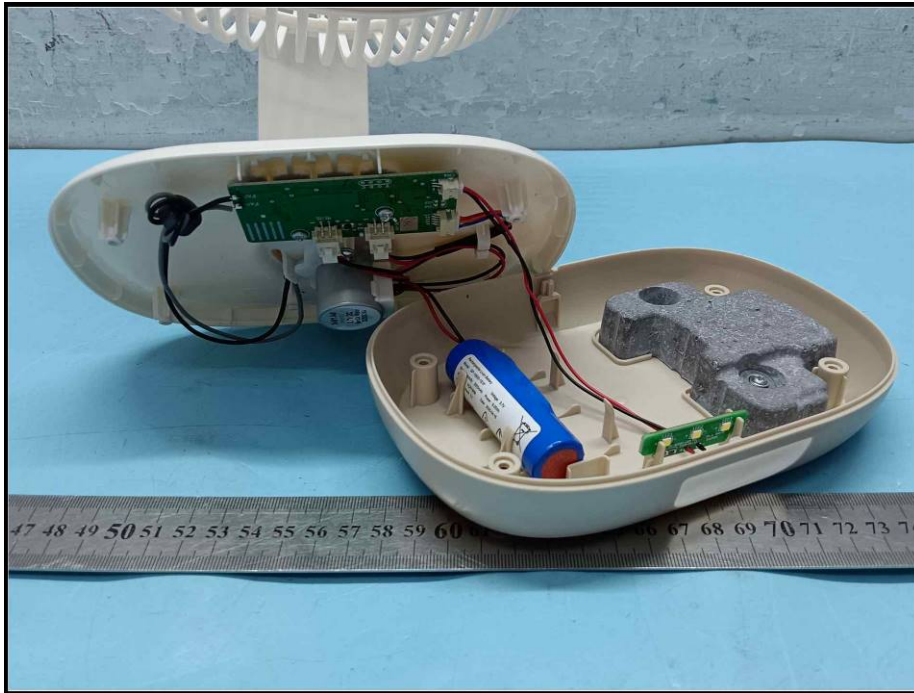
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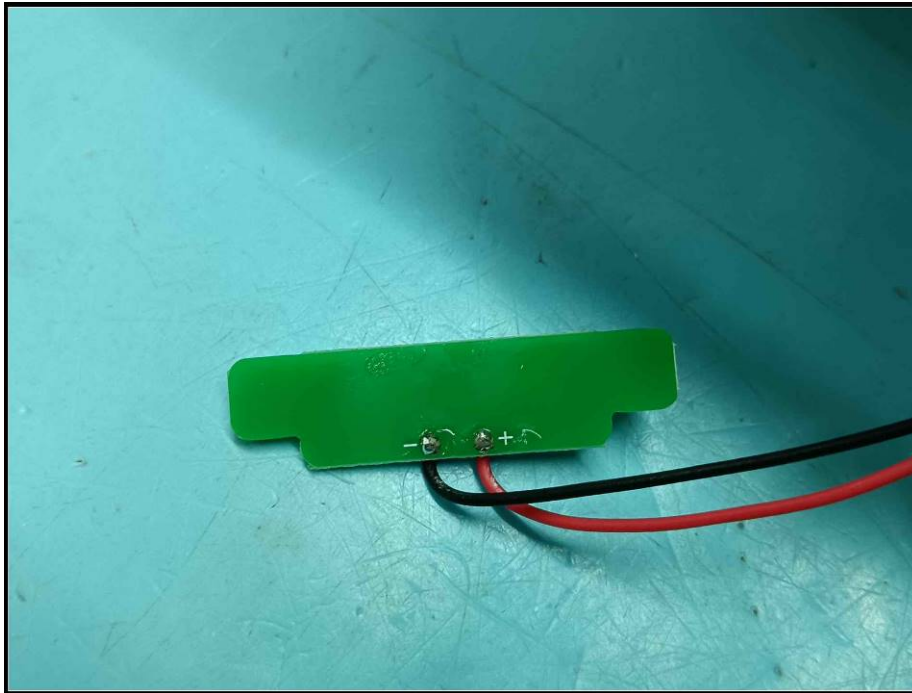
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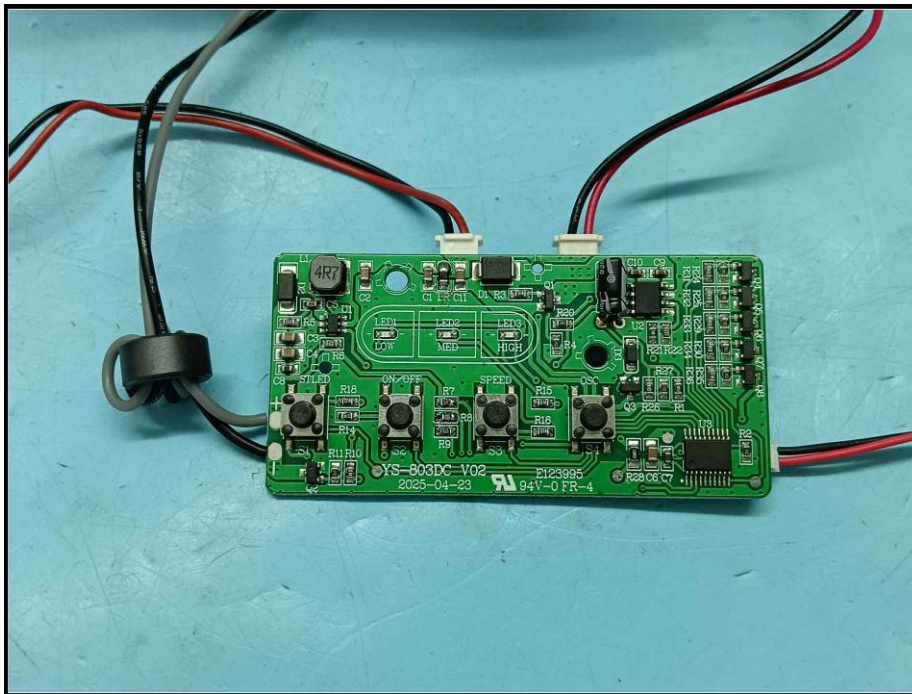
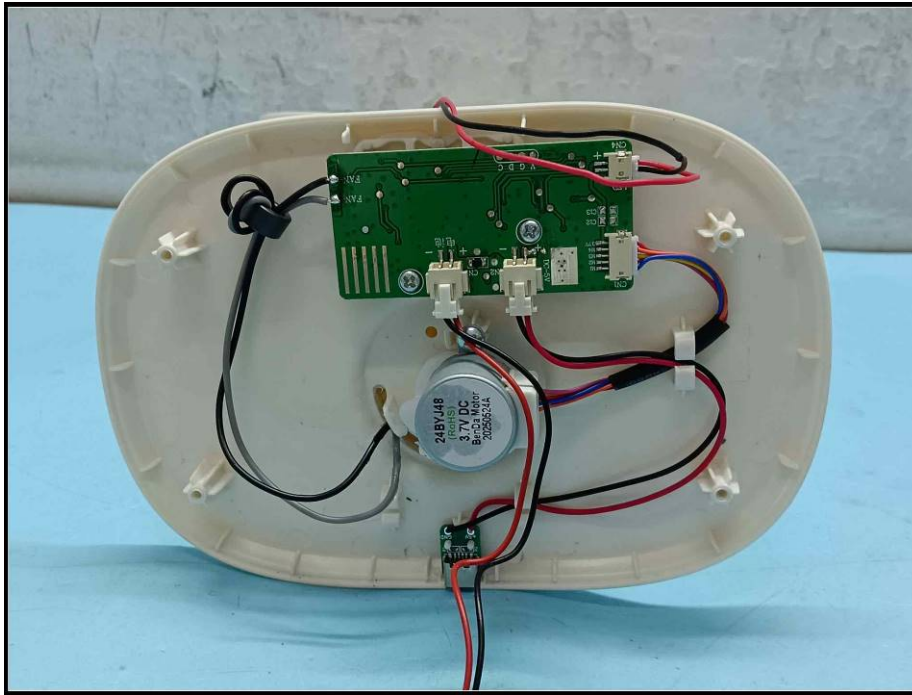
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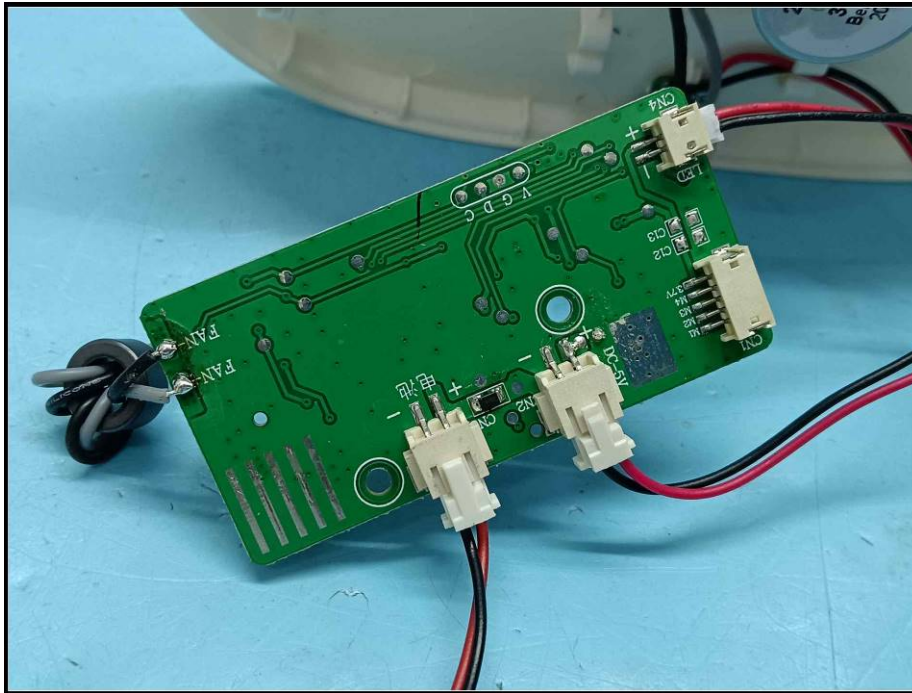
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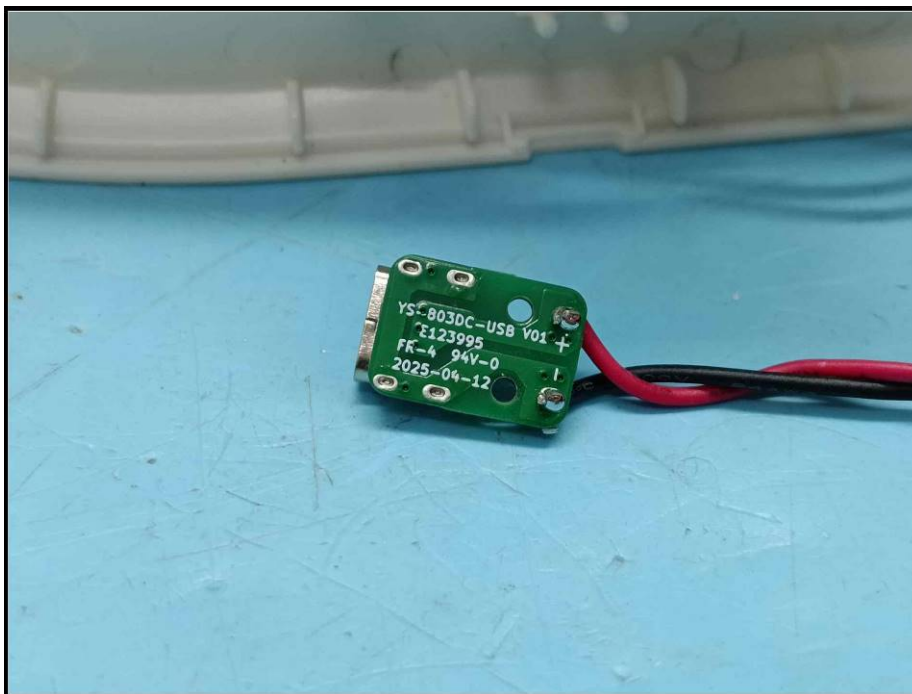
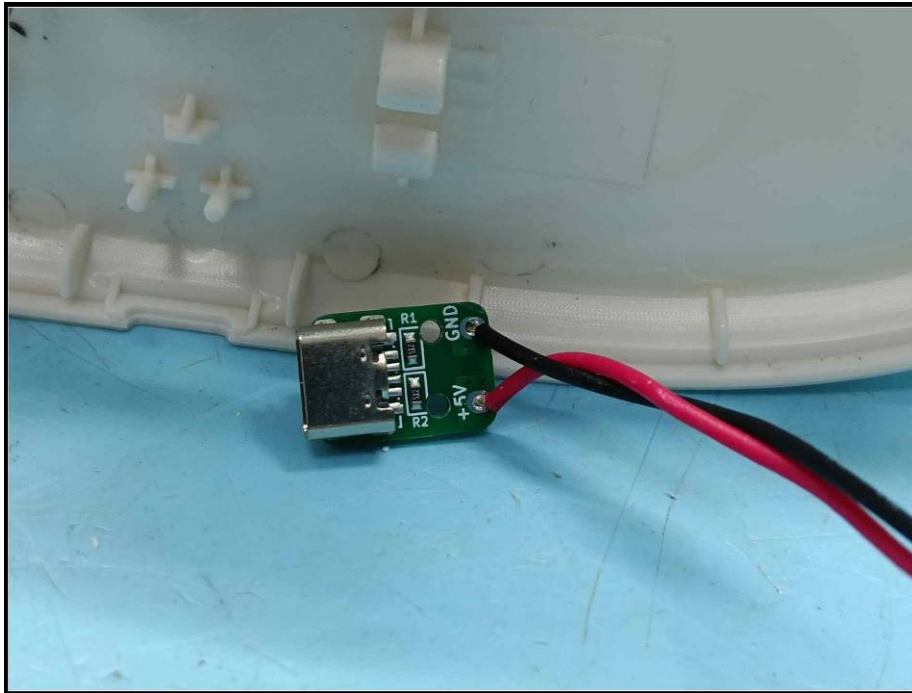
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For sample 2



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Shunde Branch

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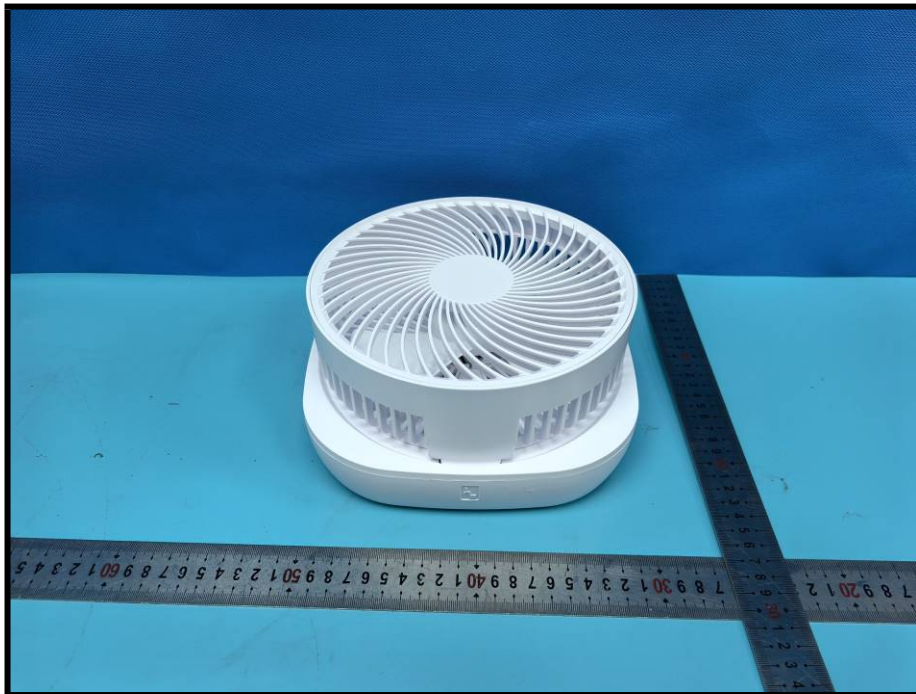
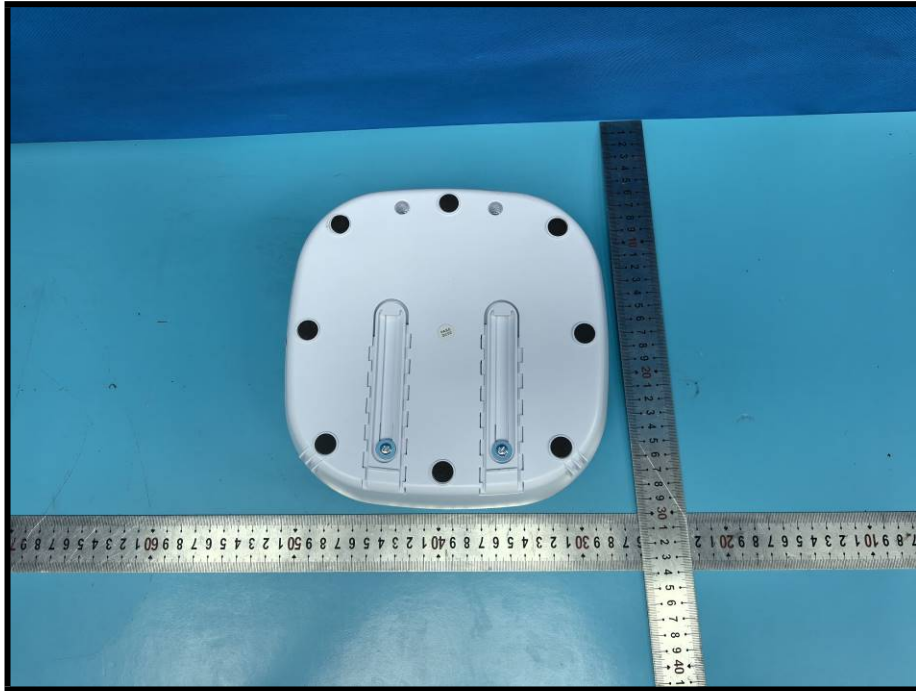
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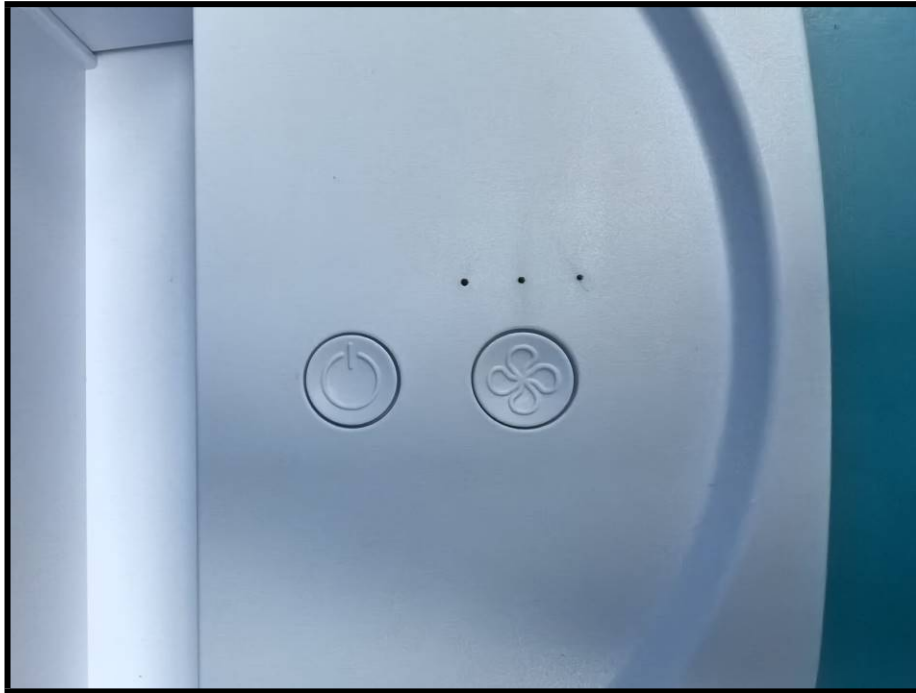


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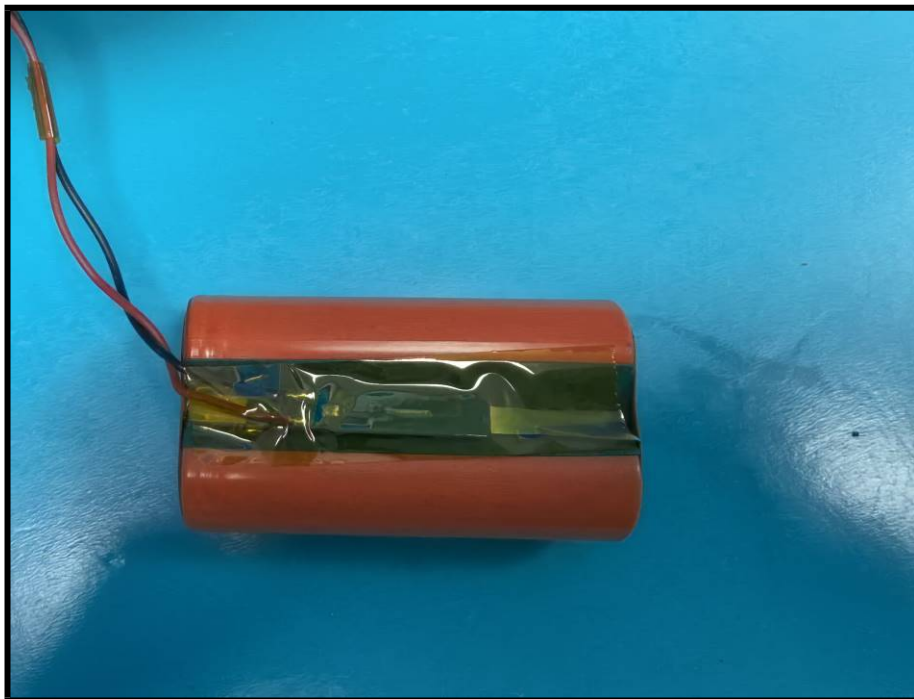
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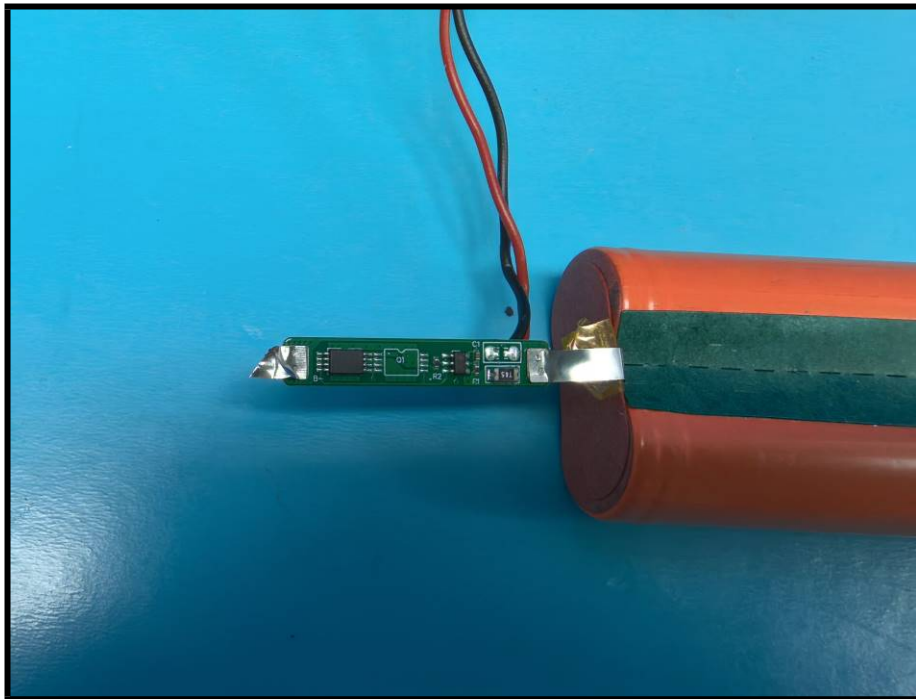
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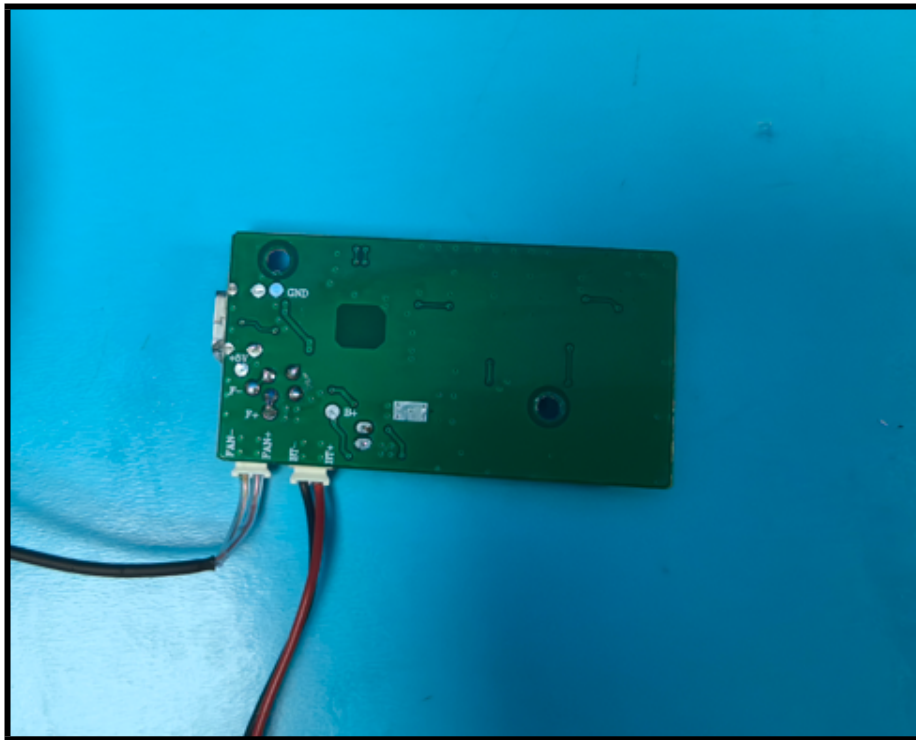
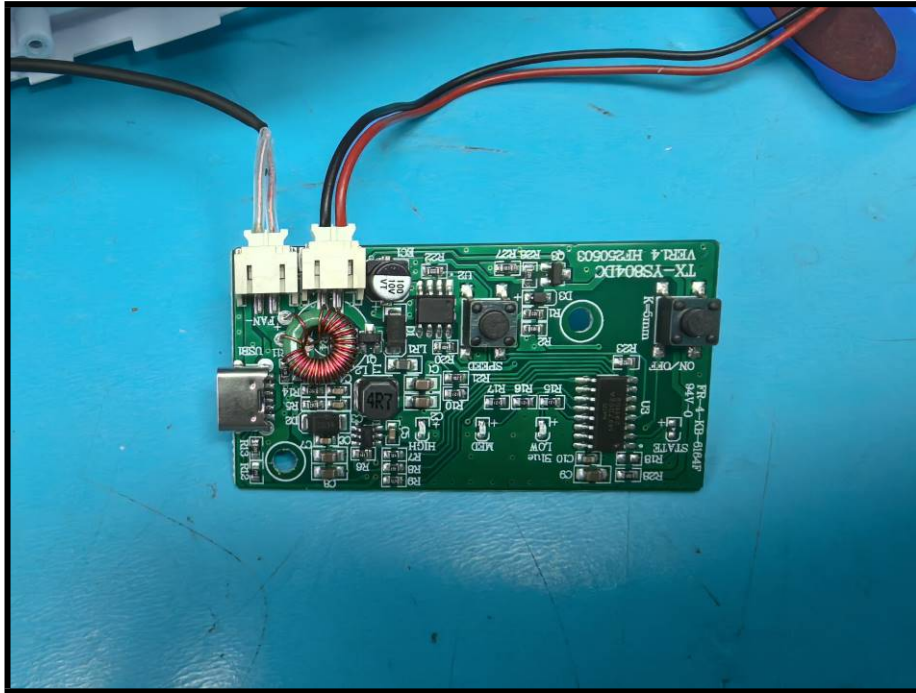
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- End of the Report -



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