

EC-RED CERTIFICATE

Certificate No.:	HTT202507391	
Applicant:	Hengyang Huidi Intelligent Technology Co., Ltd.	
Address:	St121-1-B Industrial Park,Santang Town,Hengnan County,Hengyang City,Hunan Province,(Inside The Aidi Intelligent Technology Center)	
Manufacturer:	Hengyang Huidi Intelligent Technology Co., Ltd.	
Address: St121-1-B Industrial Park, Santang Town, Hengnan County, Hengyang City, Hunan Province, (Inside The Aidi Intelligent Technology Center)		
Product:	Window cleaning robot	
Model:	RZ2-19, RZ2-01,RZ2-01B,RZ2-01C,RZ2-02,RZ2-03,RZ2-04,RZ2-05, RZ2-06,RZ2-08,RZ2-12,RZ2-15,RZ2-17,RZ2-18,RZ2-20,RZ2-21,RZ2-22, RZ2-23,RZ2-25,RZ2-31,RZ1-09,RZ1-10,RZ1-11,RZ1-15,RZ1-15A,RZ0-01, RZ0-01A,RZ0-01B,RZ0-02,RZ0-06,RZ0-07,RZ0-08,RZ0-08A,RZ0-11A	
Trade Mark:	PANAVOX	
Test Lab:	Shenzhen HTT Technology Co., Ltd.	
Date of Issue:	Jul. 15, 2025	

Essential Requirements	Specifications / Standards	Report Number	Result	
Health and Safety,	EN50663: 2017	НТТ202507391Н	Ca1'a4	
Article 3.1 a)	EN IEC 62368-1: 2020+A11: 2020	HTT202507391S	Compliant	
EMC, Article 3.1 b)	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-3 V2.3.2 (2023-01)	HTT202507391E-1	Compliant	
Radio Spectrum, Article 3.2	ETSI EN 300 440 V2.1.1 (2017-03) ETSI EN 300 440 V2.2.1 (2018-07)	HTT202507391E-2	Compliant	

Our opinion in accordance with directive 2014/53/EU(RED) on radio equipment and telecommunications equipment and the mutual recognition of their conformity is that the apparatus identified above complies with the requirements of that directive stated above.

Marking: It is recommended that the product

bear the CE mark, only when all the essential

requirements have been met.

horized by:

Kevin Yang, Technical R



SHENZHEN HTT TECHNOLOGY CO., LTD.

Tel: 86-0755-23595200 Web: www.httprc.com Hotline: 400-6655-351 Mail: info@httprc.com



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TEST REPORT EN50663:2017

Report Reference No...... HTT202507391H

Compiled by

(position+printed name+signature)..: Heber He

Supervised by

(position+printed name+signature)..: Bruce Zhu

Approved by

(position+printed name+signature)..: Kevin Yang

Date of issue...... Jul. 15, 2025

Testing Laboratory Name...... Shenzhen HTT Technology Co., Ltd.

Gushu, Xixiang Street, Bao'an District, Shenzhen

Applicant's name : Hengyang Huidi Intelligent Technology Co., Ltd.

St121-1-B Industrial Park, Santang Town, Hengnan

Heber He Bruce 2/10

Address...... County, Hengyang City, Hunan Province, (Inside The Aidi

Intelligent Technology Center)

Test specification

Standard..... EN50663:2017

Test item description.....: Window cleaning robot

Trade Mark..... PANAVOX

Hengyang Huidi Intelligent Technology Co., Ltd.

Manufacturer..... St121-1-B Industrial Park,Santang Town,Hengnan County,

Hengyang City, Hunan Province, (Inside The Aidi Intelligent

Technology Center)

Model/Type reference..... RZ2-19

RZ2-01,RZ2-01B,RZ2-01C,RZ2-02,RZ2-03,RZ2-04,RZ2-05,

RZ2-06, RZ2-08, RZ2-12, RZ2-15, RZ2-17, RZ2-18, RZ2-20,

> RZ1-11,RZ1-15,RZ1-15A,RZ0-01,RZ0-01A,RZ0-01B, RZ0-02,RZ0-06,RZ0-07,RZ0-08,RZ0-08A,RZ0-11A

Ratings...... Charging Input: 24V==3A, 72W;

Built-in Lithium Battery: 7.4V---650mAh, 4.81Wh;

(AC Adapter Input: 100-240V~, 50/60Hz, 1.5A

Output: 24V==3A, 72W);

Remote Control: DC 3V (2*1.5V Battery Supply)

Result..... PASS

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TEST REPORT

Test Report No. :	HTT202507391H	Jul. 15, 2025	
	111 120230733 111	Date of issue	

Equipment under Test Window cleaning robot

Model Name RZ2-19

RZ2-01,RZ2-01B,RZ2-01C,RZ2-02,RZ2-03,RZ2-04,RZ2-05,

RZ2-06,RZ2-08,RZ2-12,RZ2-15,RZ2-17,RZ2-18,RZ2-20,

Serial Model RZ2-21,RZ2-22,RZ2-23,RZ2-25,RZ2-31,RZ1-09,RZ1-10,

RZ1-11,RZ1-15,RZ1-15A,RZ0-01,RZ0-01A,RZ0-01B, RZ0-02,RZ0-06,RZ0-07,RZ0-08,RZ0-08A,RZ0-11A

Trade Mark **PANAVOX**

Address

Applicant Hengyang Huidi Intelligent Technology Co., Ltd.

St121-1-B Industrial Park, Santang Town, Hengnan County,

Hengyang City, Hunan Province, (Inside The Aidi Intelligent

Technology Center)

Hengyang Huidi Intelligent Technology Co., Ltd. Manufacturer

St121-1-B Industrial Park, Santang Town, Hengnan County, Address

Hengyang City, Hunan Province, (Inside The Aidi Intelligent

Technology Center)

Test Result	PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1.1 General Remarks	
1.2 Environmental conditions	
2 METHOD OF MEASUREMENT	E



1. **GENERAL INFORMATION**

1.1 General Remarks

Date of receipt of test sample	:	Jul. 09, 2025
Testing commenced on	:	Jul. 09, 2025
Testing concluded on	:	Jul. 15, 2025

1.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

	,
Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	989 hPa

1.3 Product Description

Product Name:	Window cleaning robot		
Trade Mark:	PANAVOX		
Model/Type reference:	RZ2-19		
	RZ2-01,RZ2-01B,RZ2-01C,RZ2-02,RZ2-03,RZ2-04,RZ2-05,		
	RZ2-06,RZ2-08,RZ2-12,RZ2-15,RZ2-17,RZ2-18,RZ2-20,		
Serial Model:	RZ2-21,RZ2-22,RZ2-23,RZ2-25,RZ2-31,RZ1-09,RZ1-10,		
	RZ1-11,RZ1-15,RZ1-15A,RZ0-01,RZ0-01A,RZ0-01B,		
	RZ0-02,RZ0-06,RZ0-07,RZ0-08,RZ0-08A,RZ0-11A		
	Charging Input: 24V3A, 72W;		
	Built-in Lithium Battery: 7.4V650mAh, 4.81Wh;		
Power supply:	(AC Adapter Input: 100-240V~, 50/60Hz, 1.5A		
	Output: 24V==-3A, 72W);		
	Remote Control: DC 3V (2*1.5V Battery Supply)		
Modulation Type	GFSK		
Operation frequency	From 2402MHz-2480MHz		
Number of channels	40		

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2. METHOD OF MEASUREMENT

Applicable Standard

EN50663:Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields(10MHz-300GHz)

<u>Limit</u>

20mW (According to the table A.1)

Table A.1 – Example values of SAR-based $P_{\rm max}$ for some cases described by ICNIRP, IEEE Std C95.1-1999 and IEEE Std C95.1-2005

Guideline / Standard	SAR limit, $SAR_{\sf max}$	Averaging mass, m	$P_{\sf max}$	Exposure tier ^a	Region of body ^a
	W/kg	g	mW		
	2	10	20	General public	Head and trunk
ICNIRP [1]	4	10	40	General public	Limbs
ICNIRP [1]	10	10	100	Occupational	Head and trunk
	20	10	200	Occupational	Limbs
	1,6	1	1,6	Uncontrolled environment	Head, trunk, arms, legs
IEEE Std C95.1-1999 [2]	4	10	40	Uncontrolled environment	Hands, wrists, feet and ankles
	8	1	8	Controlled environment	Head, trunk, arms, legs
	20	10	200	Controlled environment	Hands, wrists, feet and ankles
	2	10	20	Action level	Body except extremities and pinnae
IEEE Std C95.1-2005 [3]	4	10	40	Action level	Extremities and pinnae
	10	10	100	Controlled environment	Body except extremities and pinnae
	20	10	200	Controlled environment	Extremities and pinnae

Consult the appropriate standard for more information and definitions of terms

Test result

Modulation Type	EIRP (dBm)	Output power (mW)	Limit (mW)	Results
GFSK	-5.031	0.31	20	Pass

.....End of Report.....





For

Product: Window cleaning robot

Model: RZ2-19, RZ2-01, RZ2-01B, RZ2-01C, RZ2-02, RZ2-03,

RZ2-04, RZ2-05, RZ2-06, RZ2-08, RZ2-10, RZ2-15, RZ2-17, RZ2-18, RZ2-20, RZ2-21, RZ2-22, RZ2-23, RZ2-25, RZ2-31, RZ1-09, RZ1-10, RZ1-11, RZ1-15, RZ1-15A, RZ0-01, RZ0-01A, RZ0-01B, RZ0-02, RZ0-06,

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RZ0-07, RZ0-08, RZ0-08A

Report No.: HTT202506958ER

Issued Date: Jun. 25, 2025

Issued for:

Hengyang Huidi Intelligent Technology Co., Ltd. St121-1-B Industrial Park, Santang Town, Hengnan County, Hengyang City, Hunan Province, (Inside The Aidi Intelligent Technology Center)

Issued By:

Shenzhen HTT Technology Co., Ltd. 1F, B Building, Huafeng International Robotics Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen

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The test results in the report only apply to the tested sample.

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1 TEST CERTIFICATION

Product: Window cleaning robot

Trade Name: PANAVOX

Model: RZ2-19

Applicant: Hengyang Huidi Intelligent Technology Co., Ltd.

St121-1-B Industrial Park, Santang Town, Hengnan County, Hengyang City, Hunan

Report No.: HTT202506958ER

Province, (Inside The Aidi Intelligent Technology Center)

Manufacturer: Hengyang Huidi Intelligent Technology Co., Ltd.

St121-1-B Industrial Park, Santang Town, Hengnan County, Hengyang City, Hunan

Province, (Inside The Aidi Intelligent Technology Center)

Tested: Jun. 19, 2025 ~ Jun. 25, 2025

(Kevin Yang)

Applicable EN IEC 55014-1:2021 EN IEC 55014-2:2021

EN IEC 61000-3-2: 2019 +A2:2024

EN 61000-3-3:2013+A2:2021+AC:2022-01

Deviation from Applicable Standard

None

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

Tested By: Jeremy Zhang
Date: Jun. 25, 2025

Check By: BYUCE MU Date: <u>Jun. 25, 2025</u>

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2 TEST RESULT SUMMARY

EMISSION					
Standard	Item Result		Remarks		
EN IEO 55044 4,0004	Conducted (Main Port)	Pass	Meet Class B limit		
EN IEC 55014-1:2021	Radiated	Pass	Meet Class B limit		
EN IEC 61000-3-2: 2019 +A2:2024	Harmonic current emissions	Pass	Meets the requirements		
EN 61000-3-3:2013+A2:2021+AC:2022 -01	Voltage fluctuations & flicker	Pass	Meets the requirements		

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IMMUNITY [EN 55014-2: 2021]									
Standard	Item	Result	Remarks						
EN 61000-4-2:2009	ESD	Pass	Meets the requirements of Performance Criterion B						
EN 61000-4-3:2006+A1:2008 +A2:2010	RS	Pass	Meets the requirements of Performance Criterion A						
EN 61000-4-4:2012	EFT	Pass	Meets the requirements of Performance Criterion B						
EN 61000-4-5:2014+A1:2017	Surge	Pass	Meets the requirements of Performance Criterion B						
EN 61000-4-6:2014+AC:2015	cs	Pass	Meets the requirements of Performance Criterion A						
EN 61000-4-8: 2010	PFMF	Pass	Meets the requirements of Performance Criterion A						
EN IEC 61000-4-11:2020	Voltage dips & voltage variations		Meets the requirements of Performance Criterion C						

Note: 1. The test result judgment is decided by the limit of test standard

2. The information of measurement uncertainty is available upon the customer's request.

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3 EUT DESCRIPTION

Product	Window cleaning robot
Model	RZ2-19
Trade Mark	PANAVOX
Applicant	Hengyang Huidi Intelligent Technology Co., Ltd.
EUT Type	⊠ Engineering Sample. ☐ Product Sample,☐ Mass Product Sample.
Serial Number	N/A
EUT Power Rating	Adapter Input:AC 200-240V~, 50/60Hz, 2A Max, Output:DC24V,3A,72W, Battery:DC7.4V,650mAh

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Model list and Models difference

No.	Model Number	Tested With
1	RZ2-19	
	RZ2-01, RZ2-01B, RZ2-01C, RZ2-02, RZ2-03, RZ2-04, RZ2-05, RZ2-06, RZ2-08, RZ2-10, RZ2-15, RZ2-17, RZ2-18,	
other models	RZ2-20, RZ2-21, RZ2-22, RZ2-23, RZ2-25, RZ2-31, RZ1-09, RZ1-10, RZ1-11, RZ1-15, RZ1-15A, RZ0-01, RZ0-01A, RZ0-01B,	
NOT	RZ0-02, RZ0-06, RZ0-07, RZ0-08, RZ0-08A	

NOTE: RZ2-19 is tested model, other models are derivative models, The models are identical in circuit, only different on the model names, size, So the test data of RZ2-19 can represent the remaining models.

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4 TEST METHODOLOGY

4.1. DECISION OF FINAL TEST MODE

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

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

Pre-Test M	lode	
Facianian	Radiated Emission	Mode: Working
Emission	Conducted Emission	Mode: Working

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

Pre-Test M	lode	
F	Radiated Emission	Mode: Working
Emission	Conducted Emission	Mode: Working

4.2. EUT SYSTEM OPERATION

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

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5 SETUP OF EQUIPMENT UNDER TEST 5.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1.	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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6 FACILITIES AND ACCREDITATIONS 6.1. FACILITIES

All measurement facilities used to collect the measurement data are located at HTT Lab

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

6.2. MEASUREMENT UNCERTAINTY

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

Measurement		Frequency	Uncertainty
	Horizontal	30MHz ~ 230MHz	+/- 4.77dB
Radiated emissions	Honzoniai	230MHz ~1000MHz	+/- 4.93dB
Radiated emissions	Vertical	30MHz ~ 230MHz	+/- 5.04dB
	vertical	230MHz ~1000MHz	+/- 4.93dB
Conducted emissions	15	0kHz~30MHz	+/- 3.59dB

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

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7 EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. LIMITS

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

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NOTE:

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

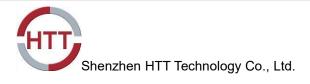
7.1.2. TEST INSTRUMENTS

Conducted Emission Shielding Room Test Site (843)							
Name of Equipment Manufacturer Model Serial Number Calibration							
EMI Test Receiver	R&S	ESCI	100005	2025.05.21			
LISN	AFJ	LS16	16010222119	2025.05.21			
LISN(EUT)	Mestec	AN3016	04/10040	2025.05.21			

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

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

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7.1.3. TEST PROCEDURES

Procedure of Preliminary Test

The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per EN55014-1 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

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All I/O cables were positioned to simulate typical actual usage as per EN55014-1.

All support equipment power received from a second LISN.

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

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

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

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

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

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

Procedure of Final Test

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

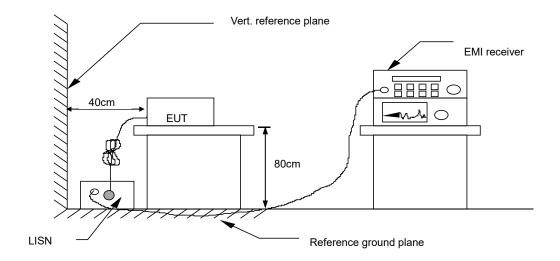
A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

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

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7.1.4. TEST SETUP



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

7.1.5. TEST RESULTS

Test Mode	IVVORKING	6dB Bandwidth	10 KHz
Environmental Conditions	26°C,60% RH	Test Result	Pass
Detector Function	Peak / Quasi-peak/AV	Test By	Jeremy Zhang

NOTE:

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

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

Freq. = Emission frequency in MHz

Reading level(dBuV) = Receiver reading

Corr. Factor (dB) = attenuator + Cable loss

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

Limit (dBuV) = Limit stated in standard

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

Q.P.=Quasi-Peak

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100.0 dBuV

90

80

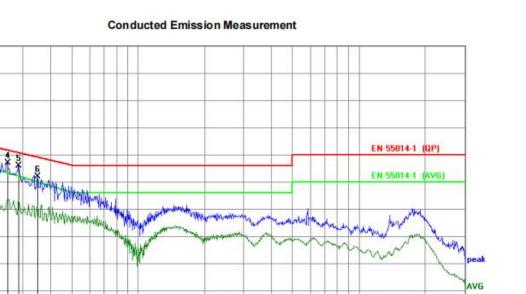
70

50

40

30 20

10 0.0



5.000

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30.000

 Site LAB
 Phase:
 L1
 Temperature:
 (C)

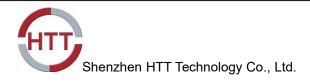
 Limit:
 EN 55014-1 (QP)
 Power:
 Humidity:
 %RH

0.500

Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz		dB	dBuV	dBuV	dB	Detector	Comment	
*	0.1500	52.70	10.08	62.78	66.00	-3.22	peak		_
	0.1949	50.07	10.17	60.24	63.83	-3.59	peak		
	0.2175	47.70	10.20	57.90	62.91	-5.01	peak		
	0.2535	46.66	10.23	56.89	61.64	-4.75	peak		
	0.2850	45.77	10.22	55.99	60.67	-4.68	peak		
	0.3480	41.81	10.13	51.94	59.01	-7.07	peak		
	322920	MHz * 0.1500 0.1949 0.2175 0.2535 0.2850	Mk. Freq. Level MHz * 0.1500 52.70 0.1949 50.07 0.2175 47.70 0.2535 46.66 0.2850 45.77	Mk. Freq. Level Factor MHz dB * 0.1500 52.70 10.08 0.1949 50.07 10.17 0.2175 47.70 10.20 0.2535 46.66 10.23 0.2850 45.77 10.22	Mk. Freq. Level Factor MBuV * 0.1500 52.70 10.08 62.78 0.1949 50.07 10.17 60.24 0.2175 47.70 10.20 57.90 0.2535 46.66 10.23 56.89 0.2850 45.77 10.22 55.99	Mk. Freq. Level Factor ment Limit MHz dB dBuV dBuV * 0.1500 52.70 10.08 62.78 66.00 0.1949 50.07 10.17 60.24 63.83 0.2175 47.70 10.20 57.90 62.91 0.2535 46.66 10.23 56.89 61.64 0.2850 45.77 10.22 55.99 60.67	Mk. Freq. Level Factor ment Limit Over MHz dB dB dBuV dBuV dB * 0.1500 52.70 10.08 62.78 66.00 -3.22 0.1949 50.07 10.17 60.24 63.83 -3.59 0.2175 47.70 10.20 57.90 62.91 -5.01 0.2535 46.66 10.23 56.89 61.64 -4.75 0.2850 45.77 10.22 55.99 60.67 -4.68	Mk. Freq. Level Factor ment Limit Over MHz dB dB dBuV dBuV dB Detector * 0.1500 52.70 10.08 62.78 66.00 -3.22 peak 0.1949 50.07 10.17 60.24 63.83 -3.59 peak 0.2175 47.70 10.20 57.90 62.91 -5.01 peak 0.2535 46.66 10.23 56.89 61.64 -4.75 peak 0.2850 45.77 10.22 55.99 60.67 -4.68 peak	Mk. Freq. Level Factor ment Limit Over MHz dB dB dBuV dB Detector Comment * 0.1500 52.70 10.08 62.78 66.00 -3.22 peak 0.1949 50.07 10.17 60.24 63.83 -3.59 peak 0.2175 47.70 10.20 57.90 62.91 -5.01 peak 0.2535 46.66 10.23 56.89 61.64 -4.75 peak 0.2850 45.77 10.22 55.99 60.67 -4.68 peak

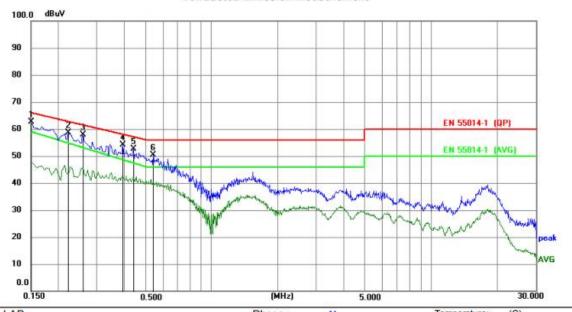
(MHz)

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Site LAB Phase: N Temperature: (C)
Limit: EN 55014-1 (QP) Power: Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz		dB	dBuV	dBuV	dB	Detector	Comment	
1	*	0.1500	52.50	10.15	62.65	66.00	-3.35	peak		
2		0.2220	48.48	10.20	58.68	62.74	-4.06	peak		
3		0.2580	47.58	10.20	57.78	61.50	-3.72	peak		
4		0.3930	43.99	10.16	54.15	58.00	-3.85	peak		
5		0.4380	42.48	10.14	52.62	57.10	-4.48	peak		
6		0.5415	40.28	10.15	50.43	56.00	-5.57	peak		

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7.2. RADIATED EMISSION MEASUREMENT

7.2.1. LIMITS

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

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

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

7.2.2. TEST INSTRUMENTS

Radiated Emission Test Site (966)							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration date			
EMI Test Receiver	R&S	ESCI	100005	2025.05.21			
Spectrum Analyzer	R&S	FSU	100114	2025.05.21			
Pre Amplifier	H.P.	HP8447E	2945A02715	2025.05.21			
Bilog Antenna	SUNOL Sciences	JB3	A021907	2025.05.21			
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	2025.05.21			
System-Controller	ccs	N/A	N/A	N.C.R			
Turn Table	ccs	N/A	N/A	N.C.R			
Antenna Tower	ccs	N/A	N/A	N.C.R			

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

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

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7.2.3. TEST PROCEDURE

Procedure of Preliminary Test

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

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Support equipment, if needed, was placed as per EN55014-1.

All I/O cables were positioned to simulate typical usage as per EN55014-1.

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

The antenna was placed at 3 meter away from the EUT as stated in EN 55014-1. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.

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

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

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

Procedure of Final Test

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

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

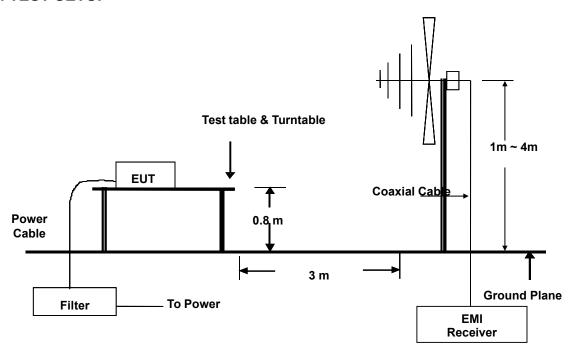
Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.

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

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7.2.4. TEST SETUP



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7.2.5 TEST RESULTS

Test Mode	IV//orking	Environmental Conditions	26°C, 55% RH
6dB Bandwidth	120 KHz	Antenna Pole	Vertical / Horizontal
Antenna Distance	3m	Detector Function	Peak / Quasi-peak
Tested by	Jeremy Zhang		

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

Freq. = Emission frequency in MHz

Reading level(dBuV) = Receiver reading

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

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

Limit (dBuV) = Limit stated in standard

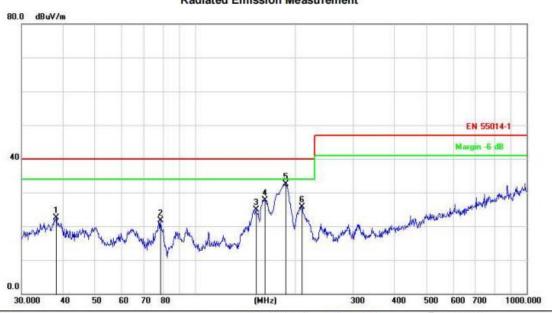
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

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Radiated Emission Measurement

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Site LAB Polarization: Horizontal Temperature:
Limit: EN 55014-1 Power: Humidity: %

MHz 38.0782 78.6888	dBuV 33.14	dB -10.55	dBuV/m 22.59	dB/m	dB	Detector	cm	degree	Comment
SNO-101/1974/1	(20,321,332)	-10.55	22 50						Common
78 6888			22.00	40.00	-17.41	peak			
7 0.0000	36.59	-14.97	21.62	40.00	-18.38	peak			
152.6640	35.55	-10.57	24.98	40.00	-15.02	peak			
162.6106	38.47	-10.70	27.77	40.00	-12.23	peak			
187.7529	45.64	-13.22	32.42	40.00	-7.58	peak			
210 0492	39.09	-13.30	25.79	40.00	-14.21	peak			
	162.6106 187.7529 210.0482	187.7529 45.64	187.7529 45.64 -13.22	187.7529 45.64 -13.22 32.42	187.7529 45.64 -13.22 32.42 40.00	187.7529 45.64 -13.22 32.42 40.00 -7.58	187.7529 45.64 -13.22 32.42 40.00 -7.58 peak	187.7529 45.64 -13.22 32.42 40.00 -7.58 peak	187.7529 45.64 -13.22 32.42 40.00 -7.58 peak



Radiated Emission Measurement

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Site LAB Polarization: Vertical Temperature:
Limit: EN 55014-1 Power: Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		37.2855	43.70	-10.69	33.01	40.00	-6.99	peak			
2	*	46.5030	45.02	-10.61	34.41	40.00	-5.59	peak			
3		63.7588	42.89	-12.25	30.64	40.00	-9.36	peak			
4		94.7601	44.09	-15.29	28.80	40.00	-11.20	peak			
5		174.4241	44.32	-11.77	32.55	40.00	-7.45	peak			
6	1	186.4409	47.55	-13.15	34.40	40.00	-5.60	peak			

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7.3. HARMONICS CURRENT MEASUREMENT

7.3.1. LIMITS OF HARMONICS CURRENT MEASUREMENT

		_			
Limits for Class A equipment					
Harmonics	Max. permissible	7			
Order	harmonics current				
n	Α				
Od	dd harmonics				
3	2.30	7			
5	1.14				
7	0.77	1			
9	0.40				
11	0.33				
13	0.21				
15<=n<=39	0.15x15/n				
Ev	en harmonics	1			
2	1.08				
4	0.43				
6	0.30				
8<=n<=40	0.23x8/n	7			

	Limits for Class D equipment						
Harmonics Order n	Max. permissible harmonics current per watt mA/W	Max. permissible harmonics current A					
	Odd Harmonics only						
3	3.4	0.23					
5	1.9	1.14					
7	1.0	0.77					
9	0.5	0.40					
11	0.35	0.33					
13	0.30	0.21					
15<=n<=39	3.85/n	0.15x15/n					

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

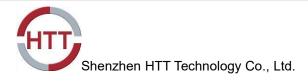
2. According to section 7 of EN IEC 61000-3-2, the above limits apply for all equipments with a rated power more than 75W, except for lighting equipment.

7.3.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Calibration date	
Harmonic & Flicker Tester	California	PACS-3	SB2588/01	2025.05.21	
Trainforme & Fileker Tester	instruments	FA00-3	302300/01	2023.03.21	
AC Power Source	California	5001;V CTS 40	SB2588	2025 05 21	
AC Fower Source	instruments	5001iX-CTS-40	3D2300	2025.05.21	

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

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7.3.3. TEST PROCEDURE

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

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

The EUT is classified as follows:

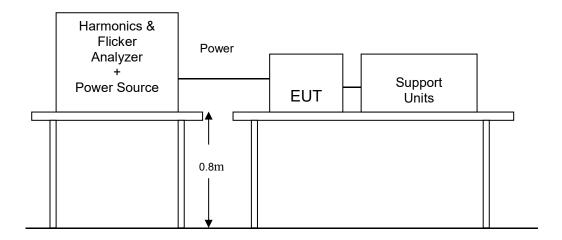
- Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.
- Class B: Portable tools; Arc welding equipment which is not professional equipment.
- Class C: Lighting equipment.
- Class D: Equipment having a specified power less than or equal to 600 W of the following types: Personal computers and personal computer monitors and television receivers.

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

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7.3.4. TEST SETUP



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

7.3.5. TEST RESULTS

ENVIRONMENTAL	Rated power exceeding 75W 24.5deg.C, 56% RH, 992 hPa		Working Class ⋈ A □ B □ C □ D
Test Result	Pass	Tested by	Jeremy Zhang

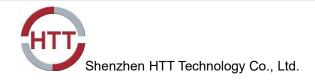
NOTE: 1. Limits classified according to item 7.3.1.

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

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

"For the following categories of equipment, limits are not specified in this edition of the standard: equipment with a rated power of 75W or less, other than lighting equipment."

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7.4. VOLTAGE FLUCTUATION AND FLICKS MEASUREMENT

7.4.1. LIMITS OF VOLTAGE FLUCTUATION AND FLICKS MEASUREMENT

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

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7.4.2. TEST INSTRUMENTS

IMMUNITY SHIELDED ROOM					
Name of Equipment Manufacturer Model Serial Number Calibratio					
Harmonic & Flicker Tester	California	PACS-3	SB2588/01	2025.05.21	
Tiaimonic & Flicker Tester	instruments	FACS-3	302300/01	2023.03.21	
AC Power Source	California	5001iX-CTS-40	SB2588	2025 05 21	
AC Power Source	instruments	500 HA-C15-40	SB2300	2025.05.21	

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

7.4.3. TEST PROCEDURE

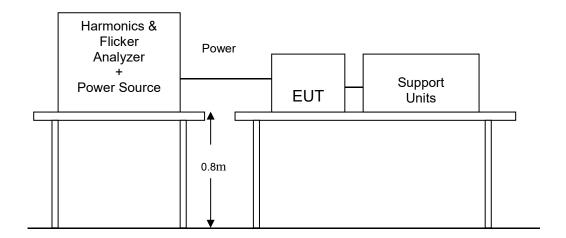
The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the most unfavorable sequence of voltage changes under Standard Mode operating conditions.

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

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7.4.4. TEST SETUP



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

7.4.5. TEST RESULTS

OBSERVATION PERIOD (Tp)	10mins	Test Mode	Working
	24.5deg.C, 56% RH, 992 hPa	Tested by:	Jeremy Zhang
Test Result	Pass		

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8 IMMUNITY TEST

8.1. GENERAL DESCRIPTION

Product	EN IEC 55014-2 : 2021					
Standard	Test Type	Minimum Requirement				
	EN 61000-4-2	Electrostatic Discharge – ESD: 8kV air discharge, 4kV Contact discharge, Performance Criterion B				
	EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test – RS: 80 ~1000 MHz, 3V/m, 80% AM(1kHz), Performance Criterion A				
	EN 61000-4-4	Electrical Fast Transient/Burst - EFT, Power line: 1kV, Signal line: 0.5kV, Performance Criterion B				
Basic Standard, Specification, and Performance	EN 61000-4-5	Surge Immunity Test: 1.2/50 us Open Circuit Voltage, 8 /20 us Short Circuit Current, Power Port ~ Line to line: 1kV, Line to ground: 2kV Signal Port ~ Lines to ground : 1kV Performance Criterion B				
Criterion required	EN 61000-4-6	Conducted Radio Frequency Disturbances Test –CS: 0.15 ~ 230 MHz, 3Vrms, 80% AM, 1kHz, Performance Criterion A				
	EN 61000-4-8	Power frequency magnetic field immunity test 50 Hz, 3A/m Performance Criterion A				
	EN IEC 61000-4-11	Voltage Dips: i) 30% reduction for 50 period, Performance Criterion C ii) 60% reduction for 10 period, Performance Criterion C				
		Voltage Interruptions: 100% reduction for 0.5 period Performance Criterion C				

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8.2. GENERAL PERFORMANCE CRITERIA DESCRIPTION

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

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8.3. ELECTROSTATIC DISCHARGE (ESD)

8.3.1. TEST SPECIFICATION

Basic Standard: EN 61000-4-2

Discharge Impedance: 330 ohm

Charging Capacity: 150pF

Discharge Voltage: Air Discharge: 8 kV (Direct)

Contact Discharge: 4 kV (Direct/Indirect)

Report No.: HTT202506958ER

Polarity: Positive & Negative

Number of Discharge: Minimum 10 times at each test point

Discharge Mode: 1 time/s

Performance Criterion: B

8.3.2. TEST INSTRUMENT

IMMUNITY SHIELDED ROOM					
Name of Equipment	Manufacturer	Serial Number	Calibration date		
ESD 2000	EMC PARTNER	ESD2000	182	2025.05.21	

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

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8.3.3. TEST PROCEDURE

The discharges shall be applied in two ways:

a) Contact discharges to the conductive surfaces and coupling planes: Twenty dischargers (10 with positive and 10 with negative polarity) shall be applied on each accessible metallic part of the enclosure, terminals are excluded. In case of a non-conductive enclosure, dischargers shall be applied on the horizontal or vertical coupling planes. Test shall be performed at a maximum repetition rate of one discharge per second.

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b) Air discharges at slots and apertures and insulating surfaces: On those parts of the EUT where it is not possible to perform contact discharge testing, the equipment should be investigated to identify user accessible points where breakdown may occur. Such points are tested using the air discharge method. This investigation should be restricted to those area normally handled by the user. A minimum of 10 single air discharges shall be applied to the selected test point for each such area.

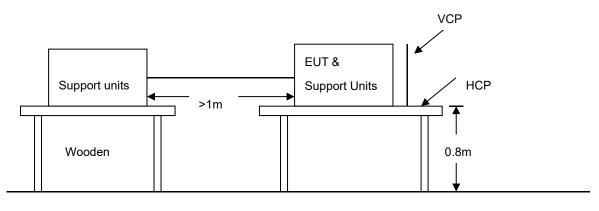
The basic test procedure was in accordance with IEC 61000-4-2:

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

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8.3.4. TEST SETUP



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Ground Reference

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

NOTE:

TABLE-TOP EQUIPMENT

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

FLOOR-STANDING EQUIPMENT

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

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8.3.5. TEST RESULTS

Temperature:	25°C	Humidity	55% RH
Pressure	996mbar	Test result	Pass
Test mode	Working	Test By	Jeremy Zhang

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Air Discharge						
Test locations		Test Levels	Results			
		± 8 kV	Pass Fail Performance Criterion Observation		Observation	
Slot	6Points	\boxtimes	\boxtimes		В	Note ☐ 1 🖂 2
Display	4Points	\boxtimes	\boxtimes		В	Note ☐ 1

Contact Discharge						
		Test Levels	Results			
Test locations		± 4 kV	Pass	Fail	Performance Criterion	Observation
HCP	4Points		\boxtimes		В	Note ☐ 1 🖂 2
VCP	4Points		\boxtimes		В	Note ☐ 1 🖂 2
Metal	4Points	\boxtimes	\boxtimes		В	Note ☐ 1 🖂 2

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

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

8.4.1. TEST SPECIFICATION

Basic Standard: EN 61000-4-3

80 MHz ~1000 MHz, 1800 MHz, 2600 MHz, 3500 MHz, 5000 Frequency Range:

Report No.: HTT202506958ER

MHz

Field Strength: 3 V/m

> **Modulation:** 1kHz Sine Wave, 80%, AM Modulation

Frequency Step: 1 % of preceding frequency value

Polarity of Antenna: Horizontal and Vertical

Test Distance: 3 m 1.5m **Antenna Height:**

Performance Criterion:

8.4.2. TEST INSTRUMENT

743 RS Chamber						
Name of Equipment	Manufacturer Model		Serial Number	Calibration date		
Signal Generator	Maconi	2022D	119246/003	2025.05.21		
Power Amplifier	M2S	A00181-1000	9801-112	2025.05.21		
Power Amplifier	M2S	AC8113/ 800-250A	9801-179	2025.05.21		
Power Antenna	SCHAFFNER	CBL6140A	1204	2025.05.21		

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

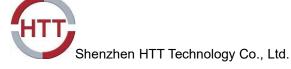
2. N.C.R.= No Calibration required

8.4.3. TEST PROCEDURE

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

- a) The testing was performed in a fully anechoic chamber. The transmit antenna was located at a distance of 3 meters from the EUT.
- b) The frequency range is swept from 80 MHz to 1000 MHz, with the signal 80% amplitude modulated with a 1kHz sine-wave. The rate of sweep did not exceed 1.5 x 10⁻³ decade/s, where the frequency range is swept incrementally, the step size was 1% of preceding frequency value.
- c) The dwell time at each frequency shall be not less than the time necessary for the EUT

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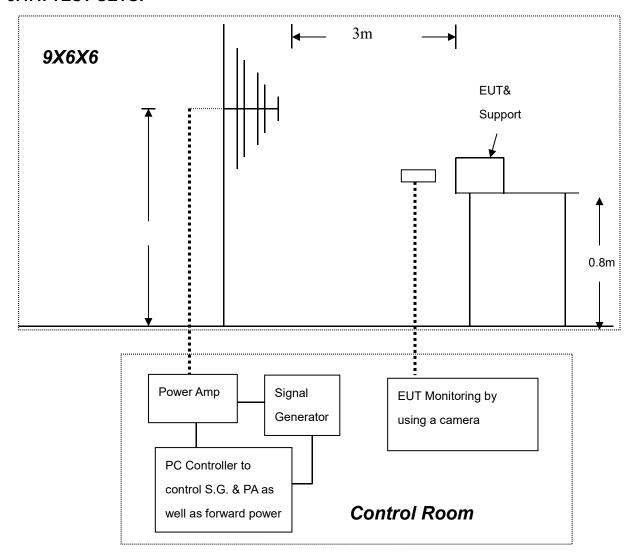


to be able to respond.

d) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

Report No.: HTT202506958ER

8.4.4. TEST SETUP



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

NOTE:

TABLETOP EQUIPMENT

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

FLOOR STANDING EQUIPMENT

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

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8.4.5. TEST RESULTS

Temperature:	25°C	Humidity	50% RH
Pressure	996mbar	Test result	Pass
Test mode	Working	Test By	Jeremy Zhang

Report No.: HTT202506958ER

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

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

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8.5. ELECTRICAL FAST TRANSIENT (EFT)

8.5.1. TEST SPECIFICATION

Basic Standard: EN 61000-4-4

Test Voltage: Power Line: 1 kV

Signal/Control Line: 0.5 kV

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Polarity: Positive & Negative

Impulse Frequency: 5 kHz Impulse Wave-shape: 5/50 ns

Burst Duration: 15 ms
Burst Period: 300 ms

Test Duration: Not less than 1 min.

Performance criterion: B

8.5.2. TEST INSTRUMENT

Immunity Shield Room						
Equipment	Calibration date					
EFT Tester	LIONCEL	LSE-545CB	0180601	2025.05.21		
Specialized Isolated Voltage Regulator For Surge	EVERFINE	GT2502	P185365CM5391123	2025.05.21		
Coupling Clamp	LIONCEL	EFTC	018071809	2025.05.21		

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

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

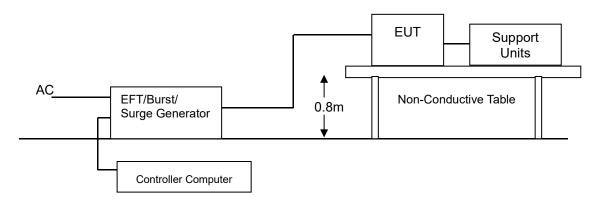
8.5.3. TEST PROCEDURE

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

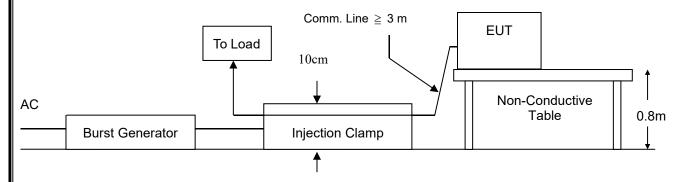
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8.5.4. TEST SETUP



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

NOTE:

TABLETOP EQUIPMENT

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

FLOOR STANDING EQUIPMENT

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

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8.5.5. TEST RESULTS

Temperature:	25°C	Humidity	50% RH
Pressure	996mbar	Test result	Pass
Test mode	Working	Test By	Jeremy Zhang

Report No.: HTT202506958ER

Test Point	Polarity	Test Level (kV)	Performance Criterion	Observation	Result
L	+/-	1	В	Note ☐ 1 ⊠ 2	Pass
N	+/-	1	В	Note ☐ 1 2	Pass
L – N	+/-	1	В	Note ☐ 1	Pass
PE	+/-	1	В	Note ☐ 1 ⊠ 2	Pass
L – PE	+/-	1	В	Note ☐ 1 ⊠ 2	Pass
N – PE	+/-	1	В	Note ☐ 1 ⊠ 2	Pass
L – N – PE	+/-	1	В	Note ☐ 1 ⊠ 2	Pass
Signal Line				Note 🗆 1 🗆 2	N/A

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

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

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8.6. SURGE IMMUNITY TEST

8.6.1. TEST SPECIFICATION

Basic Standard: EN 61000-4-5

Wave-Shape: Combination Wave

1.2/50 us Open Circuit Voltage 8/20 us Short Circuit Current

Test Voltage: Power line ~ line to line: 1 kV;

line to ground: 2kV

Telecommunication line: 1 kV;

Surge Input/Output: Power Line: L-N / L-PE / N-PE

Telecommunication line: T-Ground / R-Ground

Report No.: HTT202506958ER

Generator Source Impedance: 2 ohm between networks

12 ohm between network and ground

Polarity: Positive/Negative

Phase Angle: 0 /90 /180 /270

Pulse Repetition Rate: 1 time / min. (maximum)

Number of Tests: 5 positive and 5 negative at selected points

Performance Criterion: B

8.6.2. TEST INSTRUMENT

Immunity Shield Room						
Equipment Manufacturer Model Serial Number Calibration						
Surge Tester	LIONCEL	LSE-545CB	0180601	2025.05.21		
Specialized Isolated Voltage Regulator For Surge	EVERFINE	GT2502	P185365CM5391123	2025.05.21		

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

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

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8.6.3. TEST PROCEDURE

a) For EUT power supply:

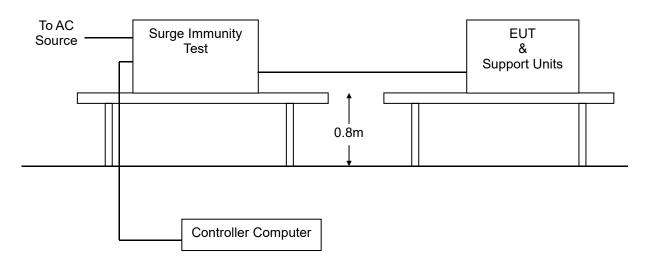
The surge is applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave.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

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- b) For test applied to unshielded un-symmetrically operated interconnection lines of EUT: The surge was applied to the lines via the capacitive coupling. The coupling networks didn't influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks was shorter than 2 meters in length.
- c) For test applied to unshielded symmetrically operated interconnection / telecommunication lines of EUT:

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

8.6.4. TEST SETUP



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

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8.6.5. TEST RESULTS

Temperature:	25°C	Humidity	50% RH
Pressure	996mbar	Test result	Pass
Test mode	Working	Test By	Jeremy Zhang

Report No.: HTT202506958ER

Test Point	Polarity	Test Level (kV)	Performance Criterion	Observation	Result
L - N	+/-	1	В	Note ☐ 1 ⊠ 2	Pass
L - PE	+/-	2	В	Note ☐ 1 ⊠ 2	Pass
N - PE	+/-	2	В	Note ☐ 1 ⊠ 2	Pass

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

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

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8.7. CONDUCTED RADIO FREQUENCY DISTURBANCES (CS)

Report No.: HTT202506958ER

8.7.1. TEST SPECIFICATION

Basic Standard: EN 61000-4-6

Frequency Range: 0.15 MHz ~ 80 MHz

Field Strength: 3 V

Modulation: 1kHz Sine Wave, 80%, AM Modulation

Frequency Step: 1 % of preceding frequency value

Coupled cable: Power Mains, Shielded

Coupling device: CDN-M3/2 (2 wires)

Performance criterion: A

8.7.2. TEST INSTRUMENT

	CS Test						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration date			
Signal Generator	Maconi	2022D	119246/003	2025.05.21			
Power Amplifier	M2S	A00181-1000	9801-112	2025.05.21			
CDN	MEB	M3-8016	003683	2025.05.21			

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

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

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8.7.3. TEST PROCEDURE

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

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

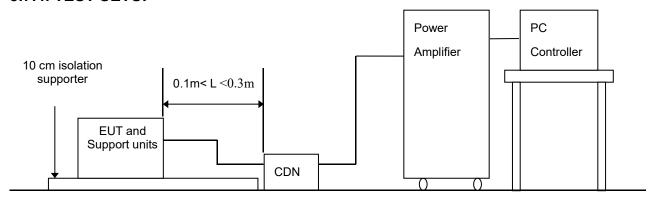
Report No.: HTT202506958ER

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

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

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

8.7.4. TEST SETUP



Note: 1. The EUT is setup 0.1m above Ground Reference Plane

2. The CDNS and / or EM clamp used for real test depends on ports and cables configuration of EUT.

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

NOTE:

TABLE-TOP AND FLOOR-STANDING EQUIPMENT

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

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8.7.5. TEST RESULTS

Temperature:	25°C	Humidity	50% RH
Pressure	996mbar	Test result	Pass
Test mode	Working	Test By	Jeremy Zhang

Report No.: HTT202506958ER

Frequency Band (MHz)	Field Strength (Vrms)	Injected Position	Injection Method	Performance Criterion	Observation	Result
0.15 ~ 80	3	AC Mains	CDN-M2	Α	Note ⊠ 1 □ 2	Pass
0.15 ~ 80	3	DC Mains	CDN-M2	A	Note ⊠ 1 □ 2	N/A

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

 2. The loss of function of the EUT during the test and it was recovered by itself operation after the test.
 - 3. N/A means to no applicable.

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8.8. POWER FREQUENCY MAGNETIC FIELD

8.8.1. TEST SPECIFICATION

Basic Standard: EN 61000-4-8

Frequency Range: 50Hz
Field Strength: 1A/m

Observation Time: 5 minutes

Inductance Coil: Rectangular type, 1mx1m

Performance criterion: A

8.8.2. TEST INSTRUMENT

Immunity Shield Room						
Name of Equipment	ipment Manufacturer Model Serial Number Calibration da					
Power-frequency Magnetic field	SCHAFFNER	CCN 1000-1	72046	2025.05.21		
Induction Coil Interface	SCHAFFNER	INA2141	6003	2025.05.21		

Report No.: HTT202506958ER

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

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

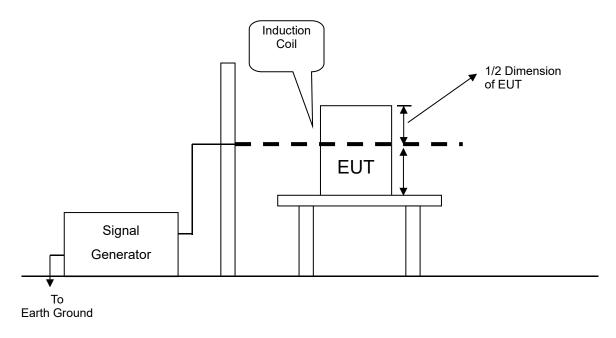
8.8.3. TEST PROCEDURE

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

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8.8.4. TEST SETUP



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

NOTE:

TABLETOP EQUIPMENT

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

FLOOR-STANDING EQUIPMENT

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

8.8.5. TEST RESULTS

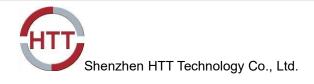
Temperature:	25°C	Humidity	50% RH
Pressure	996mbar	Test result	Pass
Test mode	Working	Test By	Jeremy Zhang

DIRECTION	Field Strength (A/m)	Performance Criterion	OBSERVATION	RESULTS
Х	1	A	Note ⊠ 1 □ 2	Pass
Υ	1	A	Note ⊠ 1 □ 2	Pass
Z	1	Α	Note ⊠ 1 □ 2	Pass

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

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

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8.9. VOLTAGE DIP & VOLTAGE INTERRUPTIONS

8.9.1. TEST SPECIFICATION

Basic Standard: EN IEC 61000-4-11

Test duration time: Minimum three test events in sequence

Interval between event: Minimum 10 seconds

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

Report No.: HTT202506958ER

Test cycle: 3 times

Performance criterion: B,C

8.9.2. TEST INSTRUMENT

Immunity shielded room				
Equipment	Manufacturer	Model	Serial Number	Calibration date
Dips Tester	LIONCEL	VSD-1102	0181202	2025.05.21
Voltage-Stabilized Source	LIONCEL	RGL-220	0180901	2025.05.21
Voltage-Stabilized Source	LIONCEL	RGL-220	0180902	2025.05.21

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

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

8.9.3. TEST PROCEDURE

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

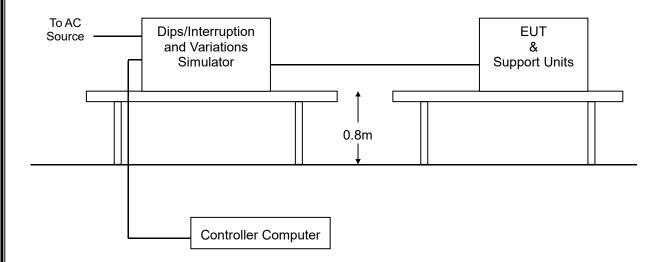
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8.9.4. TEST SETUP

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

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8.9.5. TEST RESULTS

Temperature:	25°C	Humidity	55% RH
Pressure	996mbar	Test Result	Pass
Test mode	Working	Test By	Jeremy Zhang

Test Power: 230Vac, 50Hz				
Voltage (% Reduction)	Duration (Period)	Performance Criterion	Observation	Test Result
40	10	□A □B ⊠C	Note ☐ 1 ☐ 2 ⊠ 3	Pass
70	50	□A □B ⊠C	Note ☐ 1 ☐ 2 ⊠ 3	Pass
0	0.5	□A □B ⊠C	Note ☐ 1 ☐ 2 ⊠ 3	Pass

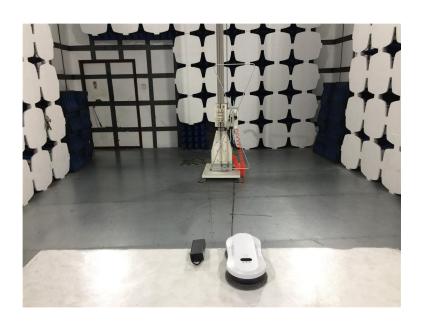
NOTE: 1.There was no change compared with initial operation during and after the test. No unintentional response was found during the test.

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

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9 PHOTOGRAPHS OF EUT



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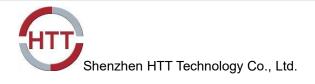
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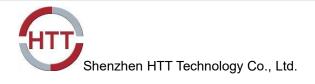
1 2 3 4 5 6 7 8 9 10 1 2 3 4

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Certificate of Conformity

Certificate No. : HTT202506958E

Applicant : Hengyang Huidi Intelligent Technology Co., Ltd.

Applicant Address

St121-1-B Industrial Park, Santang Town, Hengnan

: County, Hengyang City, Hunan Province, (Inside The Aidi Intelligent

Technology Center)

Manufacturer : Hengyang Huidi Intelligent Technology Co., Ltd.

Manufacturer Address St121-1-B Industrial Park, Santang Town, Hengnan County, Hengyang City, Hunan Province, (Inside The Aidi Intelligent

Technology Center)

Product : Window cleaning robot

RZ2-19, RZ2-01, RZ2-01B, RZ2-01C, RZ2-02, RZ2-03, RZ2-04, RZ2-05, RZ2-06, RZ2-08, RZ2-10, RZ2-15, RZ2-17, RZ2-18,

Model No. : RZ2-20, RZ2-21, RZ2-22, RZ2-23, RZ2-25, RZ2-31, RZ1-09,

RZ1-10, RZ1-11, RZ1-15, RZ1-15A, RZ0-01, RZ0-01A, RZ0-01B,

RZ0-02, RZ0-06, RZ0-07, RZ0-08, RZ0-08A

Trademark : PANAVOX

The following products have been tested by us with listed standards and found in compliance with the council EMC 2014/30/EU. It is possible to use CE marking to demonstrate the compliance with the EMC directive.

Test standards:	Report(s) Number	Issued By	Issued Date
EN IEC 55014-1: 2021 EN IEC 55014-2:2021 EN IEC 61000-3-2: 2019 +A2: 2024 EN 61000-3-3:2013+A2:2021+AC:2022-01	HTT202506958ER	нтт	Jun. 25, 2025

This certificate of conformity is not transferable and based on an evaluation of a sample of the above mentioned product.



Authorised Signatory:

Date: Jun. 25, 2025

KevinYang/Senior Manager

SHENZHEN HTT TECHNOLOGY CO., LTD.

Tel: 86-0755-23595200 Hotline: 400-6655-351 Web: www.httprc.com Mail: info@httprc.com

1F,B Building and A109,A110, Huafeng International Robotics Industrial Park, Xixiang Street, Bao'an District, Shenzhen, China





Certificate of Conformity

Certificate No. : HTT202506958R

Applicant : Hengyang Huidi Intelligent Technology Co., Ltd.

Applicant St121-1-B Industrial Park, Santang Town, Hengnan County, Hengyang Address City, Hunan Province, (Inside The Aidi Intelligent Technology Center)

Manufacturer : Hengyang Huidi Intelligent Technology Co., Ltd.

Manufacturer Address St121-1-B Industrial Park, Santang Town, Hengnan County, Hengyang City, Hunan Province, (Inside The Aidi Intelligent Technology Center)

Product : Window cleaning robot

RZ2-19, RZ2-01, RZ2-01B, RZ2-01C, RZ2-02, RZ2-03, RZ2-04, RZ2-05,

RZ2-06, RZ2-08, RZ2-10, RZ2-15, RZ2-17, RZ2-18,

Model No. : RZ2-20, RZ2-21, RZ2-22, RZ2-23, RZ2-25, RZ2-31, RZ1-09,

RZ1-10, RZ1-11, RZ1-15, RZ1-15A, RZ0-01, RZ0-01A, RZ0-01B,

RZ0-02, RZ0-06, RZ0-07, RZ0-08, RZ0-08A

Trademark : PANAVOX

KevinYang/Senior Manage

This is to certify that, on the basis of the tests undertaken as per Report No.: **HTT202506958CH**, the submitted sample of the above item complies with:

IEC 62321-3-1:2013

IEC 62321-4:2013+A1:2017

IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017

And fulfills testing requirement of the RoHS 2.0 directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102.

RoHS

Date of Issue:Jun. 25, 2025

SHENZHEN HTT TECHNOLOGY CO., LTD.

Tel: 86-0755-23595200 Hotline: 400-6655-351 Web: www.httprc.com Mail: info@httprc.com

1F,B Building and A109,A110, Huafeng International Robotics Industrial Park, Xixiang Street, Bao'an District, Shenzhen, China





Certificate of Conformity

Certificate No. HTT202506958L

Applicant Hengyang Huidi Intelligent Technology Co., Ltd.

Applicant Address

St121-1-B Industrial Park, Santang Town, Hengnan : County, Hengyang City, Hunan Province, (Inside The Aidi

Intelligent Technology Center)

Manufacturer Hengyang Huidi Intelligent Technology Co., Ltd.

Manufacturer **Address**

St121-1-B Industrial Park, Santang Town, Hengnan County, Hengyang City, Hunan Province, (Inside The Aidi

Intelligent Technology Center)

Product : Window cleaning robot

RZ2-19, RZ2-01, RZ2-01B, RZ2-01C, RZ2-02, RZ2-03, RZ2-04,

RZ2-05, RZ2-06, RZ2-08, RZ2-10, RZ2-15, RZ2-17, RZ2-18,

Model No. RZ2-20, RZ2-21, RZ2-22, RZ2-23, RZ2-25, RZ2-31, RZ1-09,

RZ1-10, RZ1-11, RZ1-15, RZ1-15A, RZ0-01, RZ0-01A, RZ0-01B,

RZ0-02, RZ0-06, RZ0-07, RZ0-08, RZ0-08A

Trademark PANAVOX

The following products have been tested by us with listed standards and found in compliance with the council LVD (Low Voltage Directive) 2014/35/EU. It is possible to use CE marking to demonstrate the compliance with the Low Voltage Directive.

Test standards:	Report(s) Number	Issued By	Issued Date
EN 60335-1:2012+A11:2014+A13:2017 +A1:2019+A14:2019+A2:2019+A15:2021 +A16:2023	HTT202506958LR	нтт	Jun. 25, 2025

This certificate of conformity is not transferable and based on an evaluation of a sample of the above mentioned product.

Authorised Signatory:

Date:

Jun. 25, 2025

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