

Report No.: GZEM250200117501 EMC-TRF-01 Rev 1.1

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TEST REPORT

Application No.: GZEM2502001175LM

Applicant: Shenzhen Chengxing Electronic Technology Co., Ltd.

Address of Applicant: 1405-07. Block A. Jiahe Building, Shennan Middle Road, Huagiangbei

Street, Futian District, Shenzhen, China

Manufacturer: Shenzhen Chengxing Electronic Technology Co., Ltd.

1405-07, Block A, Jiahe Building, Shennan Middle Road, Huagiangbei Address of Manufacturer:

Street, Futian District, Shenzhen, China

Factory: Shenzhen Chengxing Electronic Technology Co., Ltd.

Address of Factory: 1405-07, Block A, Jiahe Building, Shennan Middle Road, Huagiangbei

Street, Futian District, Shenzhen, China

Product Name: RGB LED STRIP LIGHTS Model No.: **RGB LED STRIP LIGHTS**

Trade Mark: STELLAR FIRE

EN IEC 55015: 2019+A11:2020 Standard(s):

EN IEC 61547: 2023

2025-02-26 **Date of Receipt:**

Date of Test: 2025-03-05 to 2025-03-12

2025-04-03 Date of Issue:

Pass* **Test Result:**

Jery Chen Jerry Chan Manager

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record				
Version	Report No.	Date	Remark	
01	GZEM250200117501	2025-04-03	Original	

Authorized for issue by:			
	Luke Lin		
	Luke Lin/Project Engineer		
	Teny lij		
	Terry Lai/Reviewer	_	



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Test Summary

Emission Part							
Item	Standard	Method	Requirement	Result			
Radiated Emissions (30MHz-1GHz)		CISPR 16-2-3: 2016	Table 10	Pass			
Radiated Emissions (Magnetic Field Induced Current)(9kHz- 30MHz) 2m loop	EN IEC 55015: 2019+A11:2020	CISPR 16-2-3: 2016	Table 8	Pass			

Immunity Part								
Item	Standard	Method	Requirement	Result				
Electrostatic Discharge	EN IEC 61547:	EN 61000-4-2:2009	±4kV Contact Discharge, ±8kV Air Discharge	Pass				
Radiated Immunity (80MHz-1GHz)	2023	EN IEC 61000-4- 3:2020	3V/m, 80%, 1kHz Amp. Mod,1% increment	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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General Information

4.1 Details of E.U.T.

Power supply: DC 5V 3A Cable(s): N/A

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.
AC/DC Adapter	Supplied by applicant	MODEL:LY- 0530(INPUT: AC 100- 240V 50/60Hz)	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty		
Radiated Emissions (30MHz-1GHz)	5.14dB (30MHz-1GHz):3m; 4.90dB (30MHz-1GHz):10m		
Radiated Emissions (Magnetic Field Induced Current)(9kHz-30MHz) 2m loop	3.08dB (9kHz to 150kHz); 3.19dB(150kHz to 30MHz): 2m loop		

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.

4.4 Test Location

All tests were performed 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

No tests were sub-contracted.



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4.5 Test Facility

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

ACMA

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

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

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

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

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

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

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

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

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

• CBTL (Lab Code: TL129)

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

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

4.8 EMS Monitor

Visual: Monitor the EUT lighting status.



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Equipment List 5

Radiated Emissions (30MHz-1GHz)							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2022-03-22	2025-03-21		
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	2022-04-20	2025-04-19		
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125- 8000	EMC2239	2024-12-04	2026-12-03		
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A		
Coupling Decoupling Network M2	SCHWARZBECK	CDNE-M2	EMC2175	2024-12-04	2025-12-03		
Coupling Decoupling Network M3	SCHWARZBECK	CDNE-M3	EMC2176	2024-12-04	2025-12-03		

Radiated Emissions (Magnetic Field Induced Current)(9kHz-30MHz) 2m loop						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Coaxial Cable (RE 2m Loop)	INFINITE	CC223N-10	EMC0703	2023-06-25	2025-06-24	
2m Large Loop Antenna System (ZN3040)	ZHINAN	ZN3040	EMC2187	2024-03-22	2026-03-21	
EMI Test Receiver(1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02	
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A	

Electrostatic Discharge					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Temperature & Humidity	Shanghai Meteorological Instrument Factory Co., Ltd.	ZJ1-2B	EMC0078	2024-06-12	2025-06-11
ESD Ground Plane	SGS-EMC	3m x 3m	EMC0804	N/A	N/A
Aneroid Barometer	Shanghai Meteorological Instrument Factory Co., Ltd.	YM3	EMC2181	2024-10-31	2025-10-30
ESD Simulator-E	EMTEST	NX30	EMC2186	2024-12-30	2025-12-29



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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	2022-10-16	2025-10-15	
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	2024-10-14	2025-10-13	
Signal Generator (9kHz- 6GHz)	Rohde & Schwarz	SMB100A	EMC2093	2024-10-14	2025-10-13	
Laser Probe	RF Microwave Instrumentation	FL7006	EMC2094	2024-04-23	2025-04-22	
NRP-Z91 Power Sensor (9kHz-6GHz)	Rohde & Schwarz	NPR-Z91	EMC2095	2024-10-14	2025-10-13	
NRP-Z91 Power Sensor (9kHz-6GHz)	Rohde & Schwarz	NPR-Z91	EMC2096	2024-10-14	2025-10-13	
High-Gain Log-preiodic Antenna	Rohde & Schwarz	HL046E	EMC2097	2025-02-14	2028-02-13	
RI Cable	Rohde & Schwarz	7m	EMC2098	2024-05-16	2025-05-15	
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	2024-06-13	2025-06-12



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Emission Test Results 6

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: EN IEC 55015: 2019+A11:2020

Test Method: CISPR 16-2-3: 2016

Limit:

Test Distance: 3m

40 dB(µV/m) quasi-peak 30MHz-230MHz 230MHz-1GHz 47 dB(µV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 45.2 % RH Atmospheric Pressure: 1012 mbar

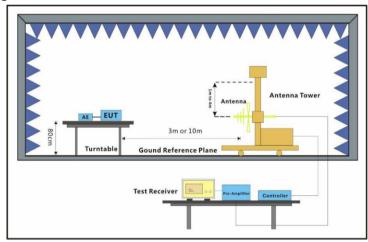
6.1.2 Test Mode Description

Pre-scan / Mode

Final test Code Description

Final test 00 Test the EUT normal working.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

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.

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



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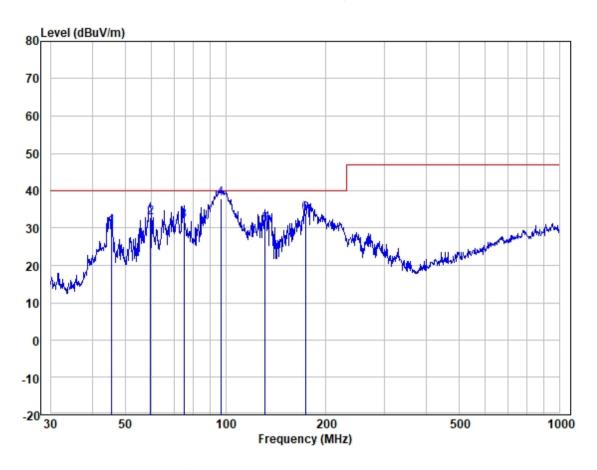


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Test Mode: 00; Polarity: Horizontal



Site : 966 Chamber

Job Model Power

Test Mode : FLASHING

	Freq					Measured Level				Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	45.695	43.45	19.47	0.37	32.78	30.51	40.00	-9.49	HORIZONTAL	QP
2	59.649	46.28	18.79	0.41	32.78	32.70	40.00	-7.30	HORIZONTAL	QP
3	75.182	48.32	16.07	0.48	32.75	32.12	40.00	-7.88	HORIZONTAL	QP
4	96.775	55.90	14.14	0.53	32.70	37.87	40.00	-2.13	HORIZONTAL	QP
5	131.297	44.86	18.12	0.62	32.72	30.88	40.00	-9.12	HORIZONTAL	QP
6	173.205	47.59	18.40	0.73	32.79	33.93	40.00	-6.07	HORIZONTAL	QP



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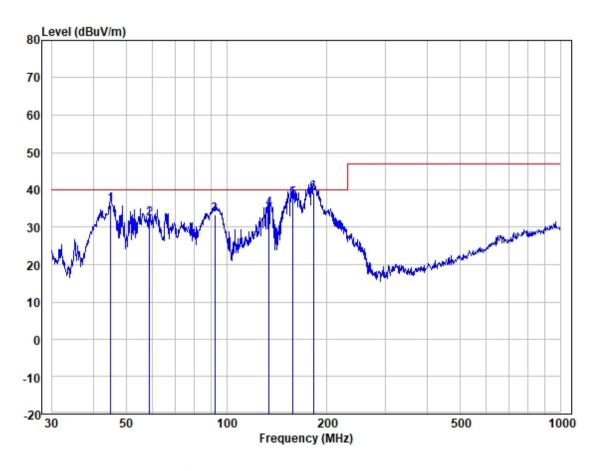


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Test Mode: 00; Polarity: Vertical



Site : 966 Chamber

Job Model : Power

Test Mode : FLASHING

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	45.058	49.04	19.47	0.37	32.78	36.10	40.00	-3.90	VERTICAL	QP
2	58.819	45.73	18.89	0.41	32.78	32.25	40.00	-7.75	VERTICAL	QP
3	92.139	51.87	13.76	0.52	32.71	33.44	40.00	-6.56	VERTICAL	QP
4	134.088	48.60	18.34	0.63	32.73	34.84	40.00	-5.16	VERTICAL	QP
5	158.112	50.61	19.19	0.70	32.77	37.73	40.00	-2.27	VERTICAL	QP
6	182.248	53.91	17.36	0.75	32.80	39.22	40.00	-0.78	VERTICAL	QP



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6.2 Radiated Emissions (Magnetic Field Induced Current)(9kHz-30MHz) 2m loop

Test Requirement: EN IEC 55015: 2019+A11:2020

Test Method: CISPR 16-2-3: 2016

Limit:

0.009MHz-0.07MHz 88dB(µA) quasi-peak

0.07MHz-0.15MHz 88dB(μ A)-58dB(μ A) quasi-peak 0.15MHz-3MHz 58dB(μ A)-22dB(μ A) quasi-peak

3MHz-30MHz 22dB(µA) quasi-peak

Detector: Peak for pre-scan (200Hz resolution bandwidth) 0.009M to 0.15MHz

Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Humidity: 45.1 % RH Atmospheric Pressure: 1012 mbar

6.2.2 Test Mode Description

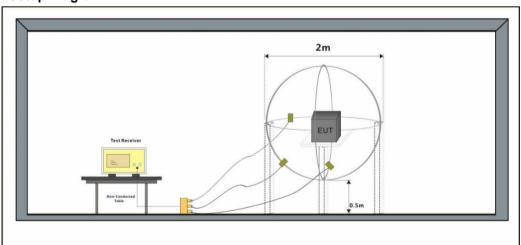
Pre-scan / Mode Description

Final test Code

00 Test the EUT normal working.

6.2.3 Test Setup Diagram

Final test



6.2.4 Measurement Procedure and Data

Frequency range: 9kHz-30MHz

An initial pre-scan was performed in the 2m loop antenna using the spectrum analyser in peak detection mode. The EUT was measured for X(A), Y(B), Z(C) polarities.

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

Measured Level= Read Level + Cable Loss + Antenna Factor(if applicable)



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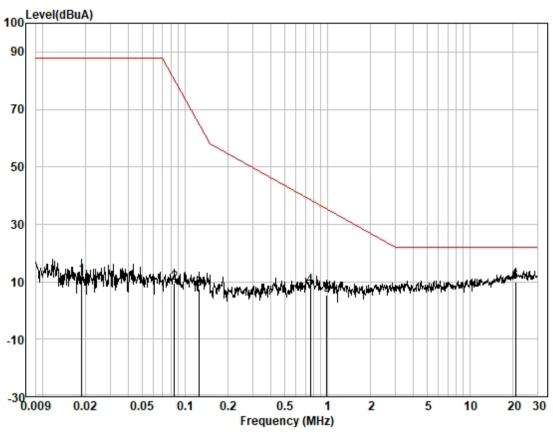


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Test Mode: 00; Axial:X



loop Test Mode: Model

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Preamp Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.02	12.61	0.00	-0.63	0.00	11.98	88.00	-76.02	QP
0.08	9.39	0.00	0.04	0.00	9.43	80.70	-71.27	QP
0.13	7.59	0.10	-0.22	0.00	7.47	64.64	-57.17	QP
0.76	8.82	0.10	-0.60	0.00	8.32	38.45	-30.13	QP
0.99	5.92	0.10	-0.50	0.00	5.52	35.27	-29.75	QP
21.04	7.01	0.90	1.81	0.00	9.72	22.00	-12.28	QP



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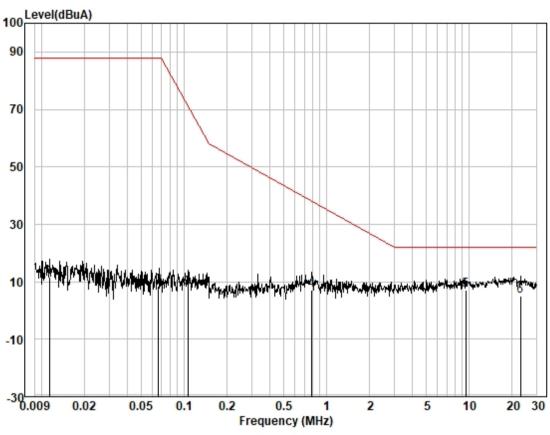


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Test Mode: 00; Axial:Y



loop Test Mode: Model

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Preamp Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	10.62	0.00	1.08	0.00	11.70	88.00	-76.30	QP
0.07	8.46	0.00	0.17	0.00	8.63	88.00	-79.37	QP
0.11	7.82	0.03	0.10	0.00	7.95	71.29	-63.34	QP
0.79	7.15	0.10	0.00	0.00	7.25	38.01	-30.76	QP
9.50	5.67	0.60	0.78	0.00	7.05	22.00	-14.95	QP
23.14	4.20	0.90	-0.16	0.00	4.94	22.00	-17.06	QP



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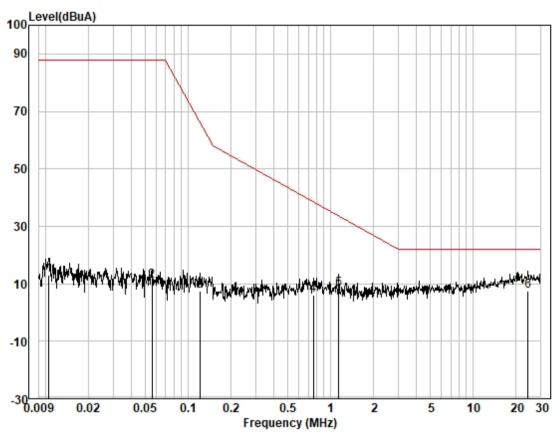


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Test Mode: 00; Axial:Z



loop Test Mode: Model

Frequency MHz	Read level dBuV	Cable Loss dB	Antenna Factor dB	Preamp Factor dB	Measured level dBuA	Limit Line dBuA	Over limit dB	Remark
0.01	12.11	0.00	0.79	0.00	12.90	88.00	-75.10	QP
0.06	11.11	0.00	-0.09	0.00	11.02	88.00	-76.98	QP
0.12	7.63	0.10	-0.20	0.00	7.53	66.20	-58.67	QP
0.76	6.31	0.10	-0.29	0.00	6.12	38.52	-32.40	QP
1.15	8.26	0.11	-0.17	0.00	8.20	33.55	-25.35	QP
24.53	5.32	0.95	1.25	0.00	7.52	22.00	-14.48	QP



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7 Immunity Test Results

Performance Criteria Description in EN IEC 61547

Criterion A: During the test, no change of the luminous intensity shall be observed and the

regulating control, if any, shall operate during the test as intended.

Criterion B: During the test, the luminous intensity may change to any value. After the test, the

luminous intensity shall be restored to its initial value within 1 min. Regulating controls need not function during the test, but after the test, the mode of the control shall be the same as before the test provided that during the test no mode changing commands

were given.

Criterion C: During and after the test, any change of the luminous intensity is allowed and the

lamp(s) may be extinguished. After the test, within 30 min, all functions shall return to normal, if necessary by temporary interruption of the mains supply and/or operating the

regulating control.



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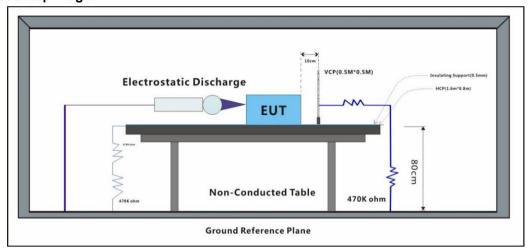
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7.1 Electrostatic Discharge

Test Requirement: EN IEC 61547: 2023 Test Method: EN 61000-4-2:2009

7.1.1 Test Setup Diagram



7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 57.3 % RH Atmospheric Pressure: 1012 mbar

7.1.3 Test Mode Description

Pre-scan / Mode Final test Code Description

Final test 00 Test the EUT normal working. Final test 01 Idle:Keep the EUT standby.



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7.1.4 Test Condition and Results

Performance Criterion: B for other than Road and street lighting equipment;

Performance Criterion: C for Road and street lighting equipment.

Discharge Impedance: 330 Ω / 150 pF

Discharge Voltage: Air Discharge: ±2,4,8 kV; Contact Discharge: ±4 kV; VCP/HCP: ±4 kV for other

than Road and street lighting equipment;

Air Discharge: ±2,4,8,15 kV; Contact Discharge: ±4,8 kV; VCP/HCP: ±4,8 kV for Road and street

lighting equipment.

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	2,4,8	+	1	Α
Air Discharge	2,4,8	-	1	Α
Contact Discharge	4	+	2	Α
Contact Discharge	4	-	2	А
Horizontal Coupling	4	+	3	Α
Horizontal Coupling	4	-	3	А
Vertical Coupling	4	+	3	А
Vertical Coupling	4	-	3	А
A: No degradation in the	he performance of the	EUT was observed		

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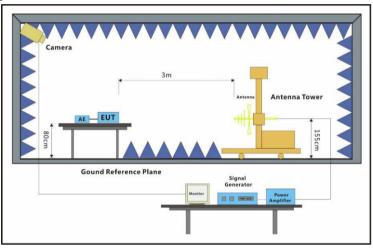
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7.2 Radiated Immunity (80MHz-1GHz)

Test Requirement: EN IEC 61547: 2023 Test Method: EN IEC 61000-4-3:2020

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 18.6 °C Humidity: 55.3 % RH Atmospheric Pressure: 1012 mbar

7.2.3 Test Mode Description

Pre-scan / Mode Description Final test Code

Test the EUT normal working. Final test 00 Idle: Keep the EUT standby. Final test 01

7.2.4 Test Condition and Results

Performance Criterion:A

Frequency Range:80MHz to 1GHz

Test Distance:3m

Antenna Polarisation: Vertical and Horizontal Modulation1kHz,80% Amp. Mod,1% increment

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	3s	A
80MHz-1GHz	3	Back	3s	Α
80MHz-1GHz	3	Left	3s	Α
80MHz-1GHz	3	Right	3s	A
80MHz-1GHz	3	Тор	3s	A
80MHz-1GHz	3	Bottom	3s	A
A: No degradation in	the performance of the	EUT was observed		•



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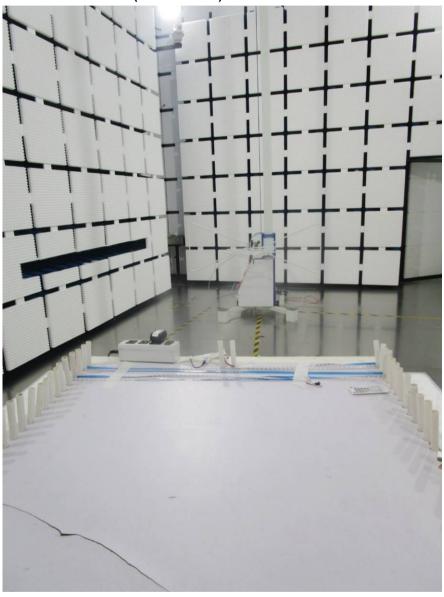


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Test Setup Photo 8

Radiated Emissions (30MHz-1GHz)





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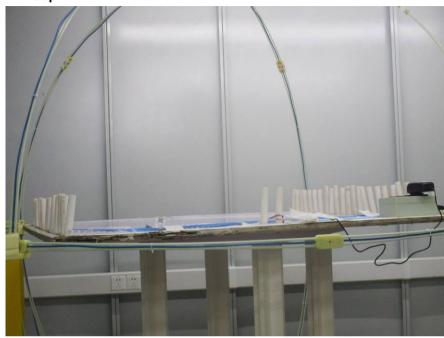
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Radiated Emissions (Magnetic Field Induced Current)(9kHz-30MHz) 2m loop





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Electrostatic Discharge





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Radiated Immunity (80MHz-1GHz)





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9 EUT Constructional Details (EUT Photos)





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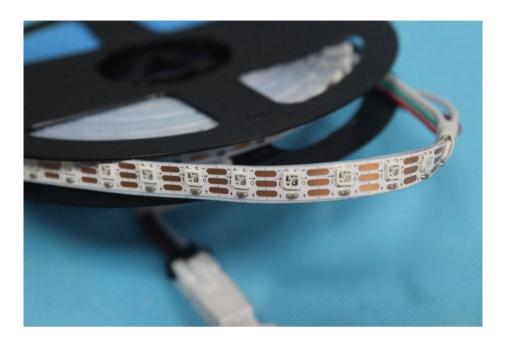
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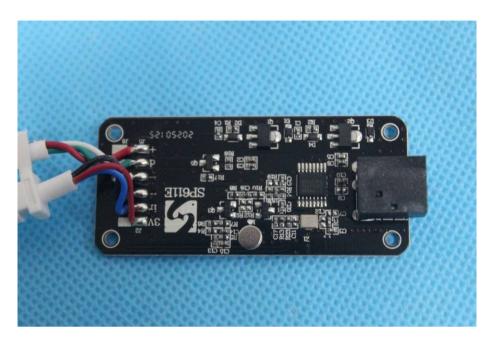
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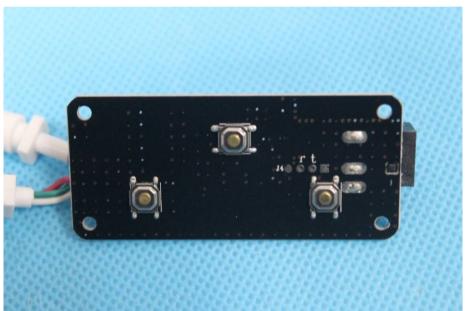


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- End of the Report -



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