Application No.:	GZEM2502001175LM
Applicant:	Shenzhen Chengxing Electronic Technology Co., Ltd.
Address of Applicant:	1405-07, Block A, Jiahe Building, Shennan Middle Road, Huaqiangbei Street, Futian District, Shenzhen, China
Manufacturer:	Shenzhen Chengxing Electronic Technology Co., Ltd.
Address of Manufacturer:	1405-07, Block A, Jiahe Building, Shennan Middle Road, Huaqiangbei Street, Futian District, Shenzhen, China
Factory:	Shenzhen Chengxing Electronic Technology Co., Ltd.
Address of Factory:	1405-07, Block A, Jiahe Building, Shennan Middle Road, Huaqiangbei Street, Futian District, Shenzhen, China
Product Name:	RGB LED STRIP LIGHTS
Model No.:	RGB LED STRIP LIGHTS
Trade Mark:	STELLAR FIRE
Standard(s) :	EN IEC 55015: 2019+A11:2020 EN IEC 61547: 2023
Date of Receipt:	2025-02-26
Date of Test:	2025-03-05 to 2025-03-12
Date of Issue:	2025-04-03
Test Result:	**Pass***

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

Jerry Chan
Manager

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

Authorized for issue by:				
		Luke Lin **Luke Lin/Project Engineer**		
		[redacted] **Terry Lai/Reviewer**		

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2 Test Summary

Emission Part

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

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4 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,

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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

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5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	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.				

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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

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6 Emission Test Results

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

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

6.1.1 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 / Final test	Mode 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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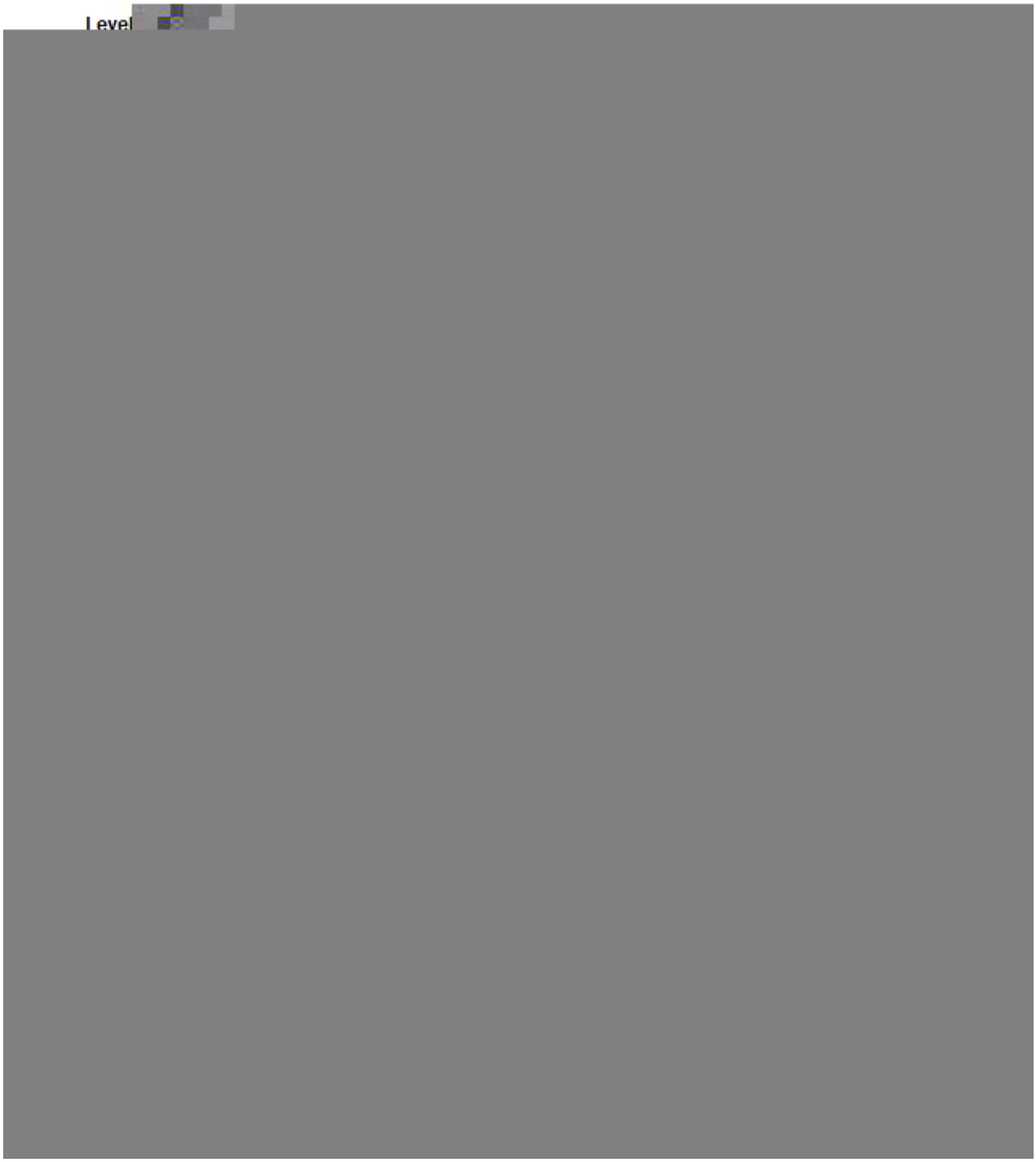
Test Mode: 00; Polarity: Horizontal



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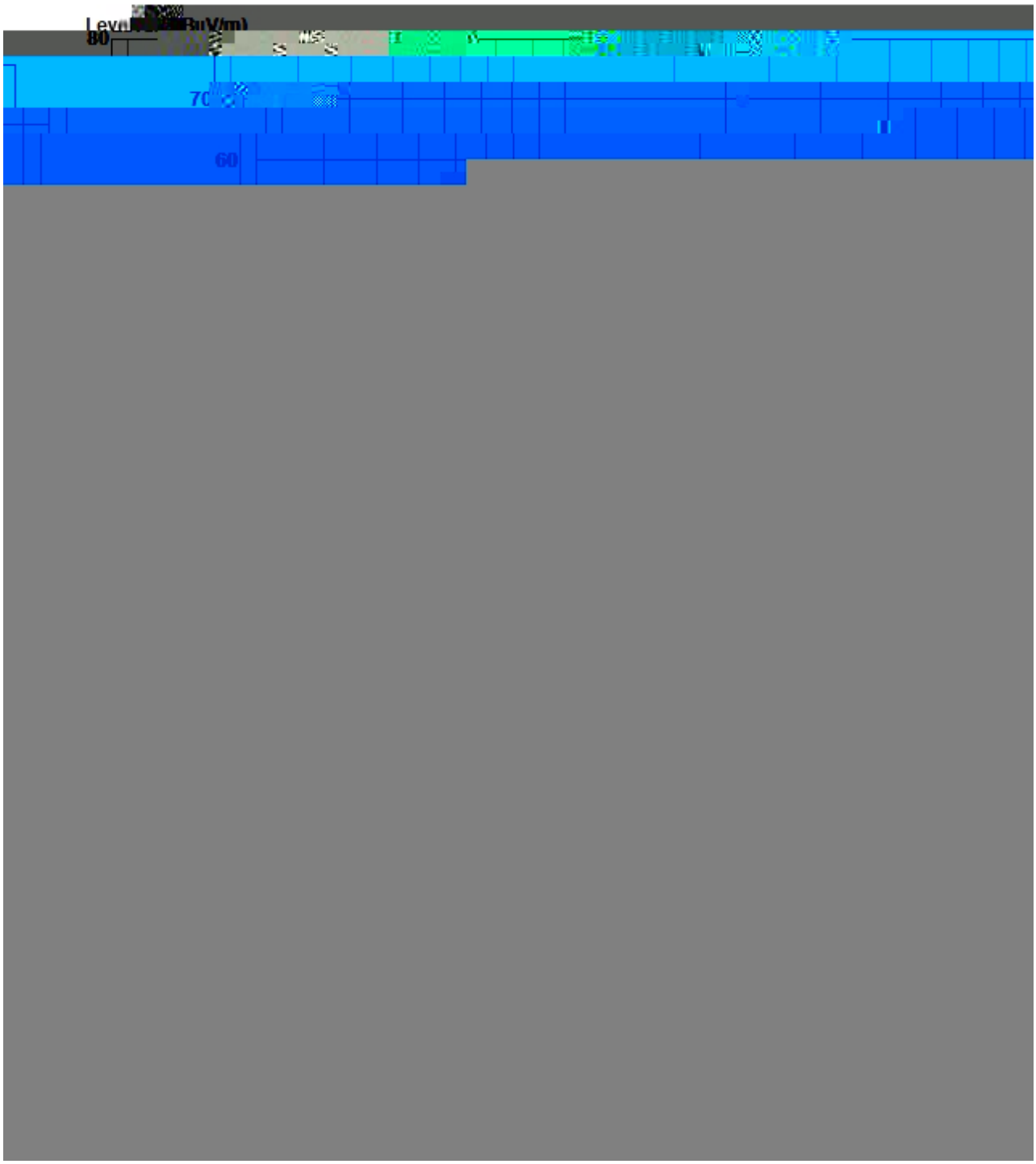
Test Mode: 00; Polarity: Vertical



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Standards Technical

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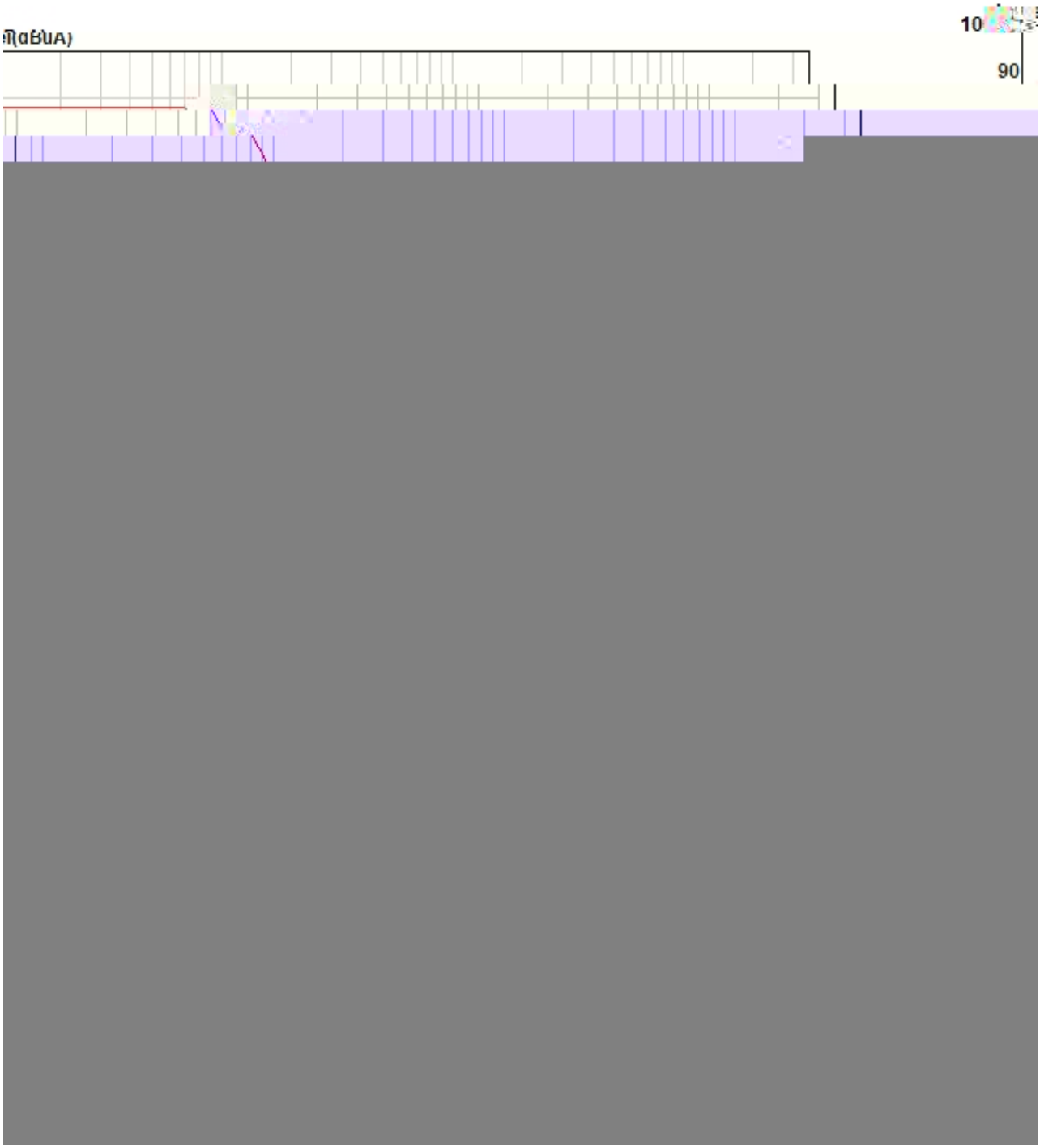
Test Mode: 00; Axial:Y



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Test Mode: 00;

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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 / Final test	Mode Code	Description
Final test	00	Test the EUT normal working.
Final test	01	Idle:Keep the EUT standby.

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8 Test Setup Photo

Radiated Emissions (30MHz-1GHz)

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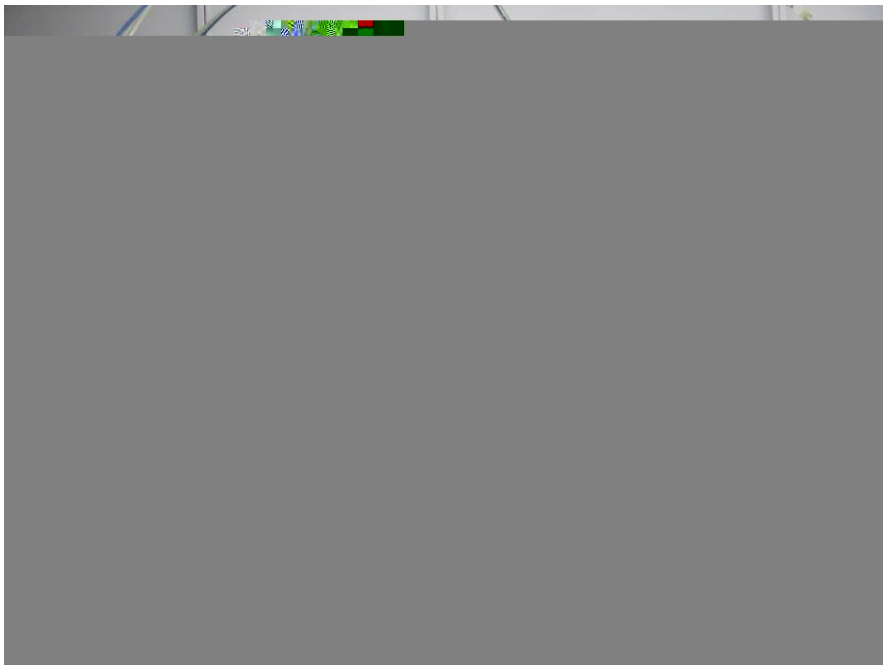
Radiated Emissions (Magnetic Field Induced Current)(9kHz-30MHz)
2m loop



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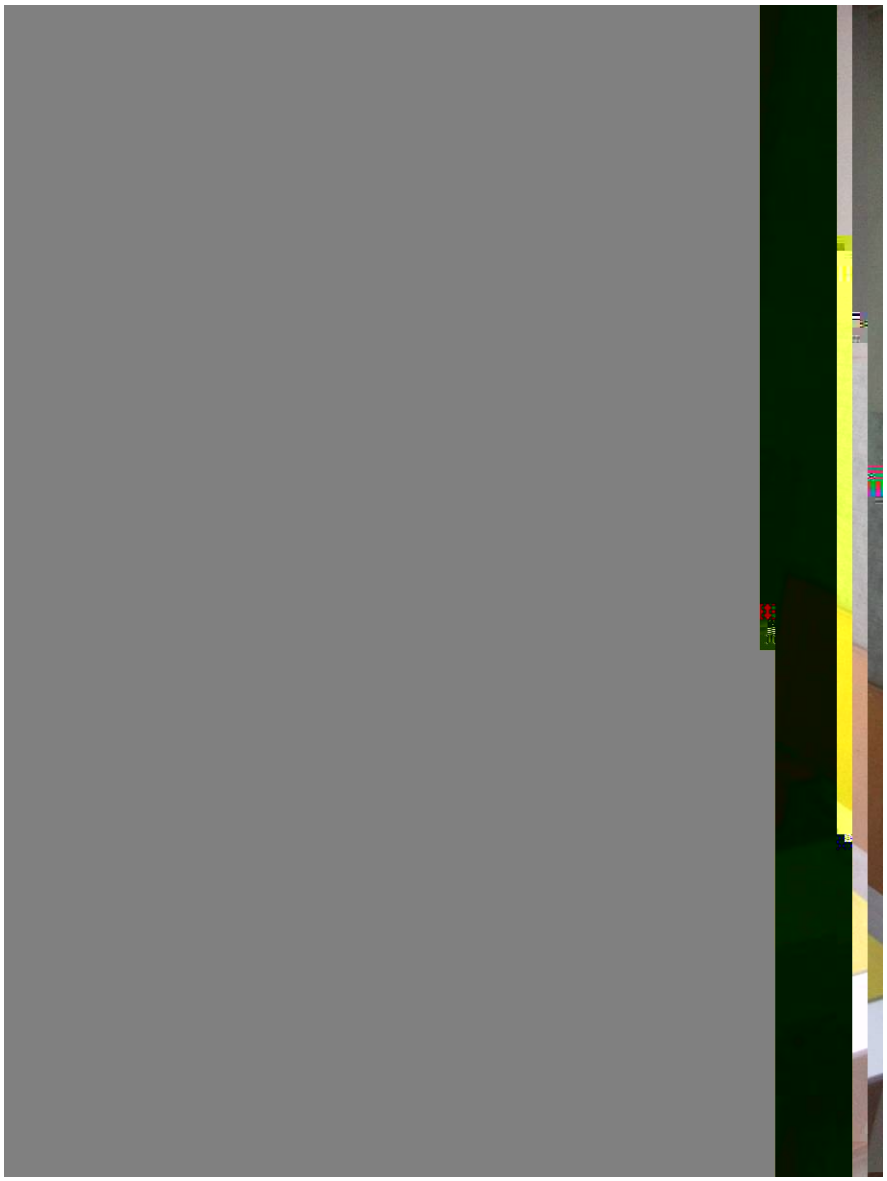
Electrostatic Discharge



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Radiated Immunity (80MHz-1GHz)

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9 EUT Constructional Details (EUT Photos)

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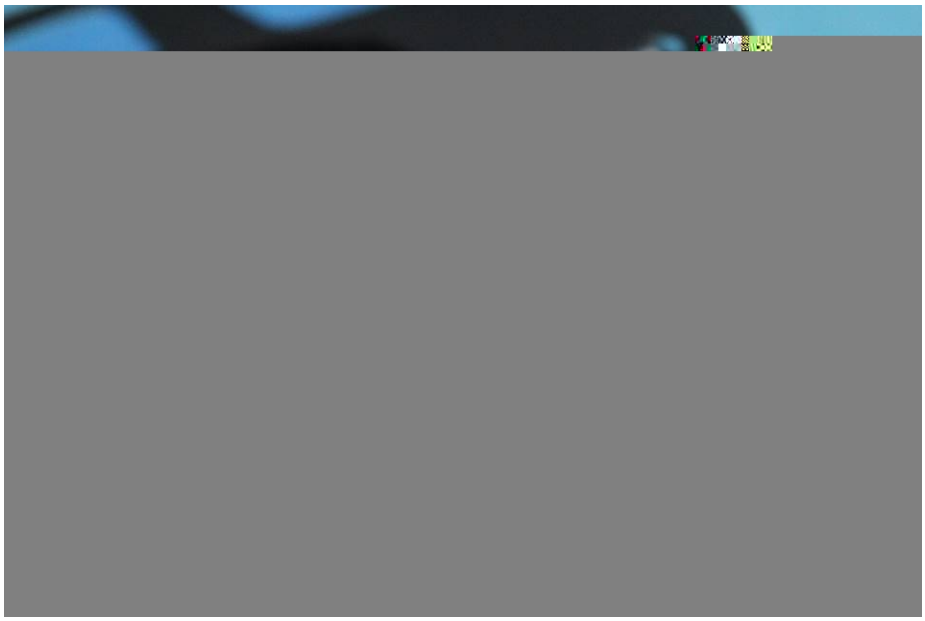

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