

FCC TEST REPORT

For

Shenzhen Rong Xing An Xin Technology Co., Ltd.

Product Name: LED Light

Test Model(s): G10

Report Reference No. : DACE250707025RL001

FCC ID : 2BQW4-G10

Applicant's Name : Shenzhen Rong Xing An Xin Technology Co., Ltd.

Address : Room A2811, A Building, Eastern Times Plaza, Huaqiang North, Futian District, Shenzhen City, Guangdong Province, China

Testing Laboratory : Shenzhen DACE Testing Technology Co., Ltd.

Address : 102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Test Specification Standard : 47 CFR Part 15, Subpart B

Date of Receipt : July 7, 2025

Date of Test : July 7, 2025 to July 12, 2025

Data of Issue : July 16, 2025

Result : Pass

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Apply for company information

Applicant's Name	:	Shenzhen Rong Xing An Xin Technology Co., Ltd.
Address	:	Room A2811, A Building, Eastern Times Plaza, Huaqiang North, Futian District, Shenzhen City, Guangdong Province, China
Product Name	:	LED Light
Test Model(s)	:	G10
Series Model(s)	:	G01, G02, G05, G11, G12, G13, HB-1
Test Specification Standard(s)	:	47 CFR Part 15, Subpart B



NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:

Keren Huang

Keren Huang / Test Engineer

July 16, 2025

Supervised by:

Stone Yin

Stone Yin / Project Engineer

July 16, 2025



Approved by:

Tom Chen

Tom Chen / Manager

July 16, 2025

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE250707025RL001	July 16, 2025

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15, Subpart B: Unintentional Radiators

1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Conducted emissions on AC mains	47 CFR Part 15, Subpart B	ANSI C63.4-2014	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4-2014	15.109, Class B	Pass

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Shenzhen Rong Xing An Xin Technology Co., Ltd.
Address : Room A2811, A Building, Eastern Times Plaza, Huaqiang North, Futian District, Shenzhen City, Guangdong Province, China

Manufacturer : Shenzhen Rong Xing An Xin Technology Co., Ltd.
Address : Room A2811, A Building, Eastern Times Plaza, Huaqiang North, Futian District, Shenzhen City, Guangdong Province, China

2.2 Description of Device (EUT)

Product Name:	LED Light
Model/Type reference:	G10
Series Model:	G01, G02, G05, G11, G12, G13, HB-1
Model difference:	There are many models of products, but the internal circuit principle and internal structure of each model are the same, only the appearance color and size are different. Therefore, the test model is G10.
Trade Mark:	N/A
Power Supply:	DC3.7V from battery
Highest Internal Frequency:	1.705-108MHz
Classification of Equipment:	Class B

2.3 Description of Test Modes

No	Title	Description
TM1	Lighting	Lighting mode
TM2	Charging mode	Charging mode

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
AC-DC adapter	HUAWEI	P0005	/

2.5 Equipments Used During The Test

Conducted emissions on AC mains					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Cable	SCHWARZ BECK	/	/	2025-04-18	2026-04-17
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Attenuation	561-G071	2024-12-06	2025-12-05
50ΩCoaxial Switch	Anritsu	MP59B	M20531	/	/
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	1164.6607K03 -102109-MH	2025-04-25	2026-04-24
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2025-04-18	2026-04-17
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2025-04-18	2026-04-17
Pulse Limiter	CYBERTEK	EM5010A	/	2024-09-27	2025-09-26
EMI test software	EZ -EMC	EZ	V1.1.42	/	/

Radiated emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Cable(HF)2	SCHWARZ BECK	50Ω	/	2025-04-18	2026-04-17
Cable(HF)1	SCHWARZ BECK	50Ω	/	2025-04-18	2026-04-17
Cable(LF)2	SCHWARZ BECK	50Ω	/	2025-04-18	2026-04-17
Cable(LF)1	SCHWARZ BECK	50Ω	/	2025-04-18	2026-04-17
Control	MF	MF-7802	MF780208362	2024-12-09	2025-12-08
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	1164.6607K03 -102109-MH	2025-04-25	2026-04-24
EMI Test software	Farad	EZ -EMC	V1.1.42	/	/
Positioning Controller	MF	MF-7802	/	/	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2024-04-26	2027-04-25
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2024-04-26	2027-04-25
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2025-04-28	2026-04-27
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2025-04-29	2026-04-28
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2025-04-29	2026-04-28
Test Receiver	R&S	ESCI 3	1166.5950K03 -101431-Jq	2025-04-18	2026-04-17
Horn Antenna	Sunol Sciences	DRH-118	A091114	2025-04-21	2026-04-20
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2024-09-28	2026-09-27

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	$\pm 3.41\text{dB}$
Radiated Emission (Below 1GHz)	$\pm 5.79\text{dB}$
Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.	

2.7 Authorizations

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252

Identification of the Responsible Testing Location

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
FCC Registration Number:	0032847402
Designation Number:	CN1342
Test Firm Registration No.:	778666
A2LA Certificate Number:	6270.01

2.8 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by DACE and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) We hereby declare that the laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant. the laboratory is not responsible for the accuracy of the information provided by the client(item 2.2). When the information provided by the customer may affect the effectiveness of the results, the responsibility lies with the customer, and the laboratory does not assume any responsibility.

3 Emission Test Results (EMI)

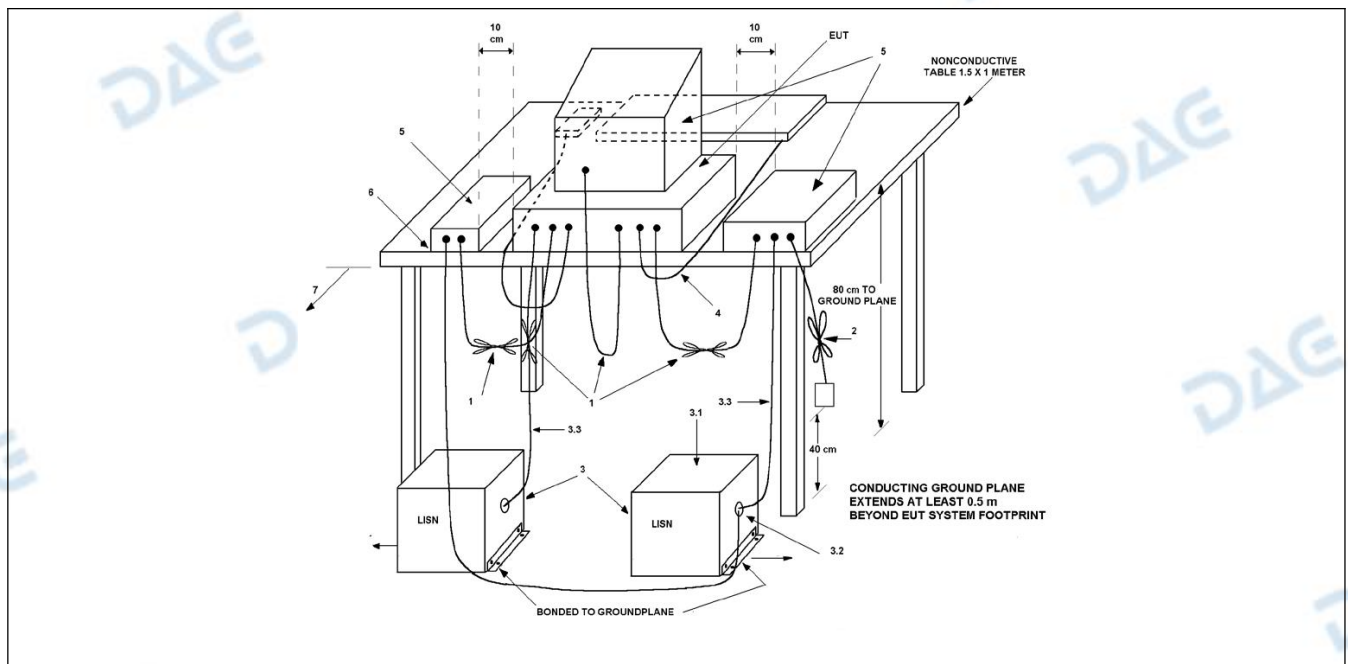
3.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
*Decreases with the logarithm of the frequency.			
Test Method:	ANSI C63.4-2014		
Procedure:	An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor		

3.1.1 E.U.T. Operation:

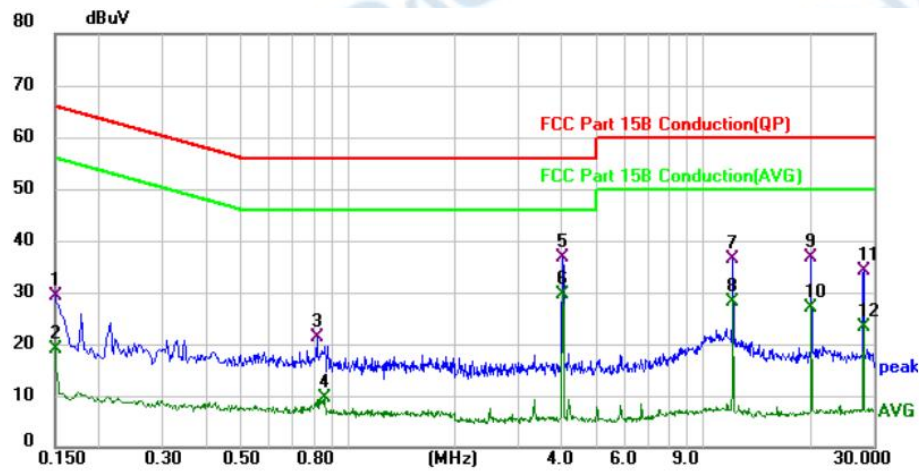
Operating Environment:					
Temperature:	23.7 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa
Pretest mode:	TM2				
Final test mode:	TM2				

3.1.2 Test Setup Diagram:



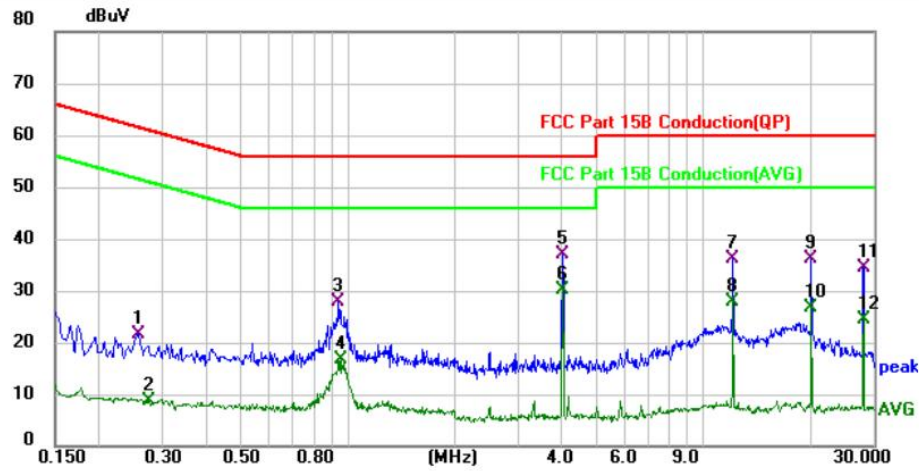
3.1.3 Test Data:

TM2 / Line: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	19.19	10.11	29.30	66.00	-36.70	QP	
2		0.1500	8.86	10.11	18.97	56.00	-37.03	AVG	
3		0.8180	11.19	10.10	21.29	56.00	-34.71	QP	
4		0.8580	-0.47	10.10	9.63	46.00	-36.37	AVG	
5		4.0260	26.48	10.16	36.64	56.00	-19.36	QP	
6	*	4.0260	19.32	10.16	29.48	46.00	-16.52	AVG	
7		12.0700	25.99	10.40	36.39	60.00	-23.61	QP	
8		12.0700	17.62	10.40	28.02	50.00	-21.98	AVG	
9		20.1220	26.13	10.59	36.72	60.00	-23.28	QP	
10		20.1220	16.30	10.59	26.89	50.00	-23.11	AVG	
11		28.1620	23.08	10.99	34.07	60.00	-25.93	QP	
12		28.1620	12.38	10.99	23.37	50.00	-26.63	AVG	

TM2 / Line: Neutral



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV	dBuV	dB		
1		0.2580	11.55	10.08	21.63	61.50	-39.87	QP	
2		0.2740	-1.43	10.08	8.65	51.00	-42.35	AVG	
3		0.9420	17.80	10.08	27.88	56.00	-28.12	QP	
4		0.9580	6.73	10.08	16.81	46.00	-29.19	AVG	
5		4.0220	26.92	10.17	37.09	56.00	-18.91	QP	
6	*	4.0220	20.11	10.17	30.28	46.00	-15.72	AVG	
7		12.0700	25.74	10.40	36.14	60.00	-23.86	QP	
8		12.0700	17.52	10.40	27.92	50.00	-22.08	AVG	
9		20.1140	25.53	10.61	36.14	60.00	-23.86	QP	
10		20.1140	16.12	10.61	26.73	50.00	-23.27	AVG	
11		28.1580	23.49	11.05	34.54	60.00	-25.46	QP	
12		28.1580	13.40	11.05	24.45	50.00	-25.55	AVG	

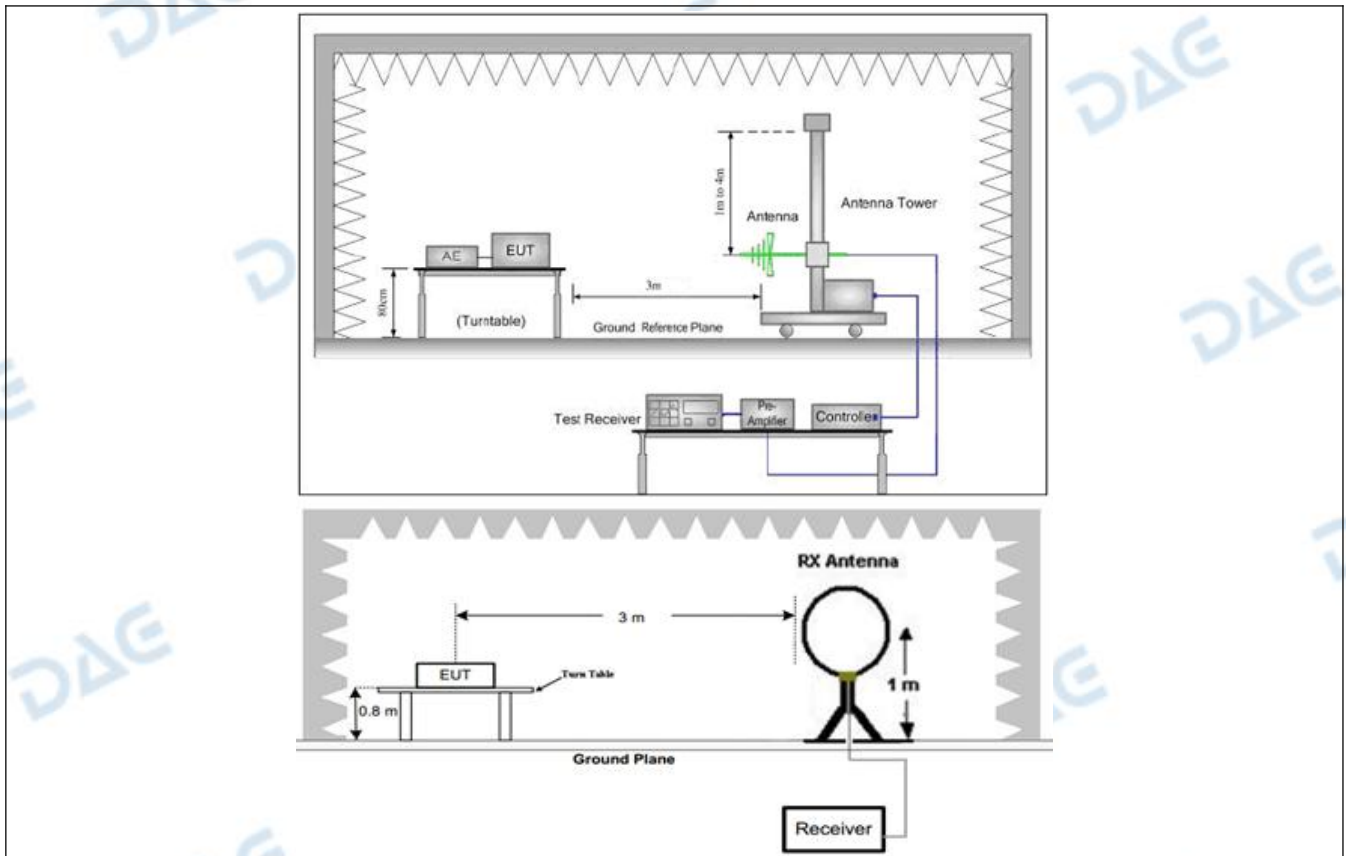
3.2 Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B				
Test Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:				
	Frequency of emission (MHz)	Field strength @3m		Field strength @10m	
(uV/m)		(dBuV/m)	(uV/m)	(dBuV/m)	
	30 – 88	100	40	30	29.5
	88 – 216	150	43.5	45	33.1
	216 – 960	200	46	60	35.6
	Above 960	500	54	150	43.5
Test Method:	ANSI C63.4-2014				
Procedure:	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. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor				

3.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23.7 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa
Pretest mode:		TM1			
Final test mode:		TM1			

3.2.2 Test Setup Diagram:



3.2.3 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	87.1117	40.36	-12.67	27.69	40.00	-12.31	QP	100		P	
2	104.9033	36.45	-7.93	28.52	43.50	-14.98	QP	100		P	
3	173.8135	42.57	-9.20	33.37	43.50	-10.13	QP	100		P	
4 *	191.7450	44.15	-10.03	34.12	43.50	-9.38	QP	100		P	
5	261.0583	38.53	-9.46	29.07	46.00	-16.93	QP	100		P	
6	312.1794	36.26	-8.15	28.11	46.00	-17.89	QP	100		P	

TM1 / Polarization: Vertical



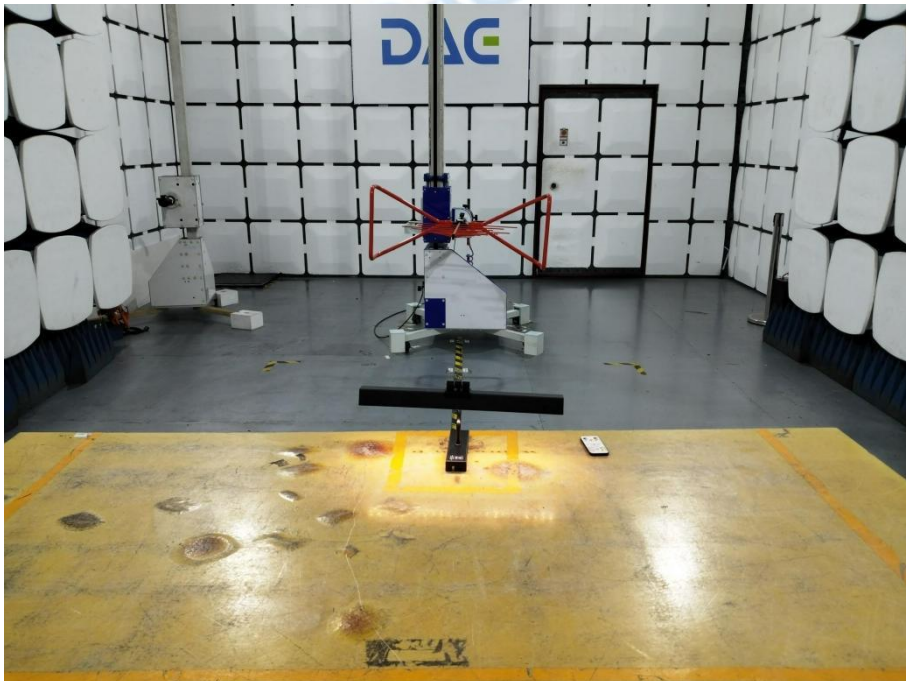
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	36.1272	31.48	-6.24	25.24	40.00	-14.76	QP	100		P	
2	52.2079	39.98	-13.94	26.04	40.00	-13.96	QP	100		P	
3 *	76.2442	42.70	-12.81	29.89	40.00	-10.11	QP	100		P	
4	106.0126	32.34	-7.63	24.71	43.50	-18.79	QP	100		P	
5	194.4534	42.35	-9.58	32.77	43.50	-10.73	QP	100		P	
6	909.6667	26.77	4.11	30.88	46.00	-15.12	QP	100		P	

4 TEST SETUP PHOTOS

Conducted emissions on AC mains

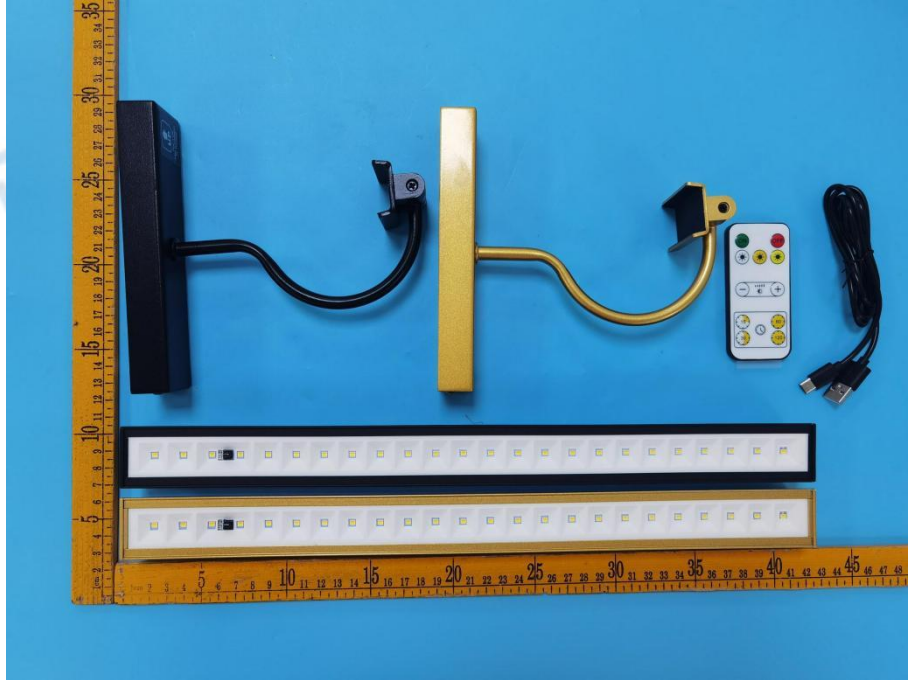


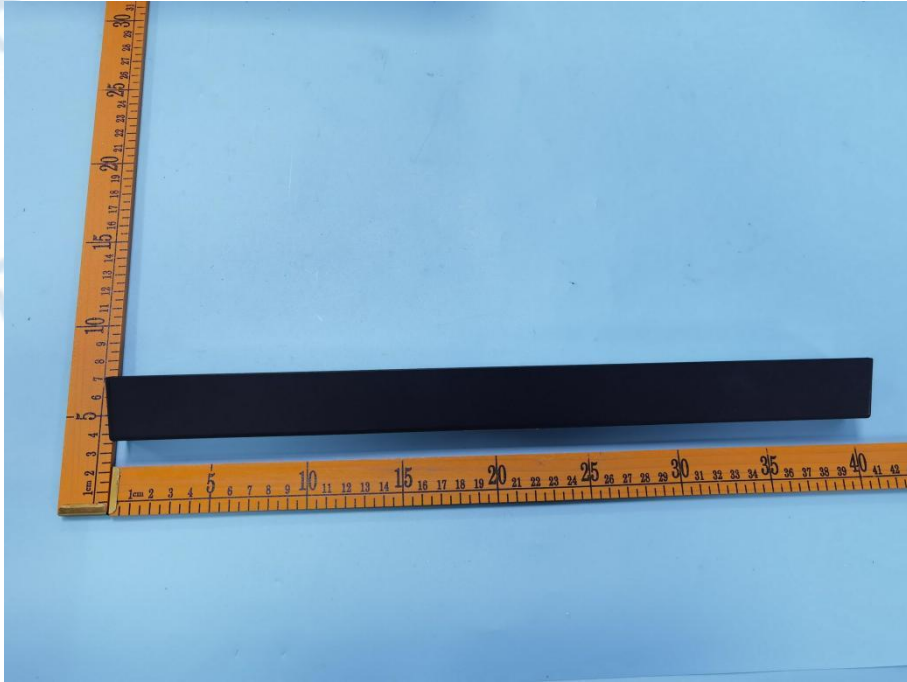
Radiated emissions (Below 1GHz)



5 PHOTOS OF THE EUT

External





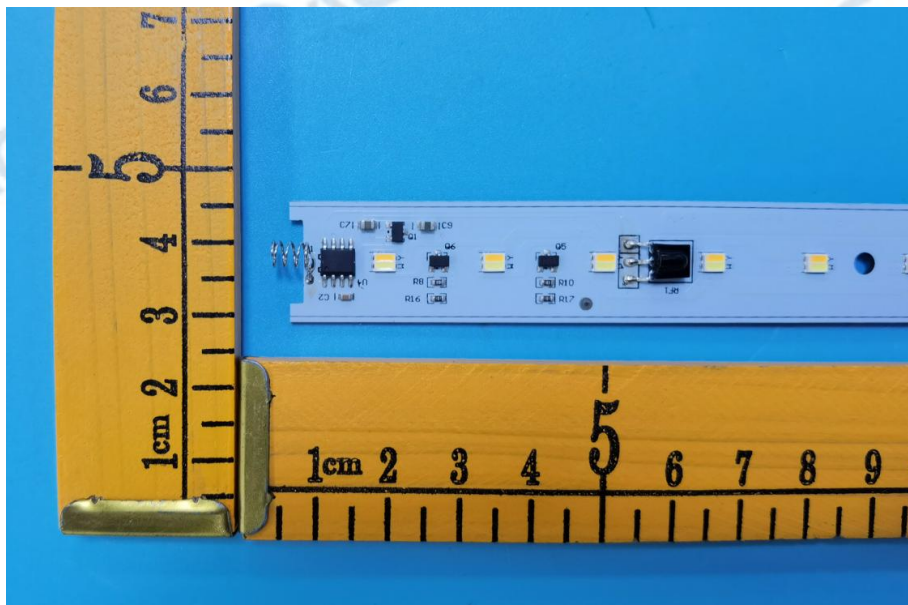


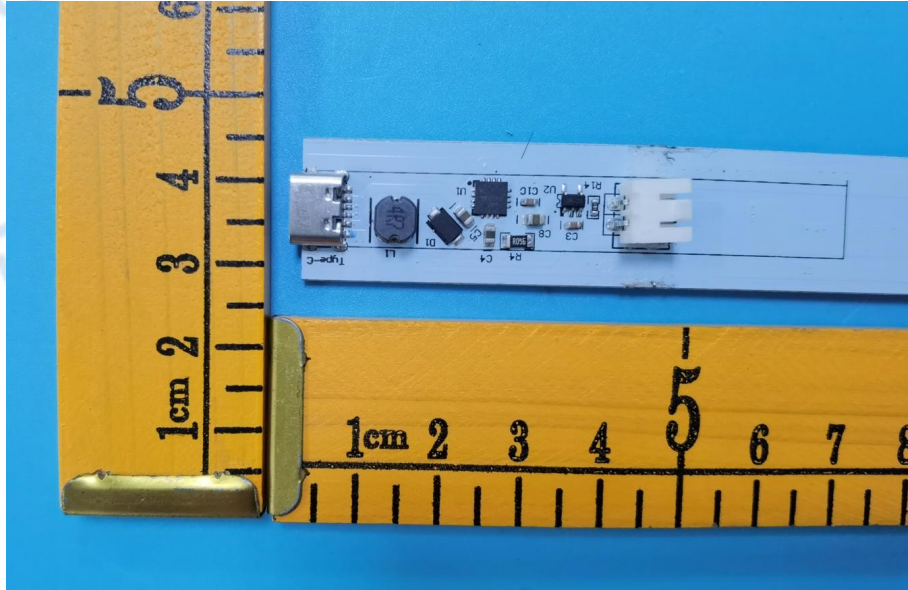


Internal









***** End of Report *****