

FCC 47 CFR Part 15 Subpart B

TEST REPORT

For

Wilton 27 in. 1-Light LED Vanity Light Bar

MODEL NUMBER: VAN-WL5C-XXXXXX

(The suffix "XXXXXX" can be A to Z and/or 0 to 9 and/or blank denotes commercial code)

REPORT NUMBER: E04A23090641F001

ISSUE DATE: October 8, 2023

FCC ID: 2AUHG-VAN-WL5C

Prepared for

ARTIKA FOR LIVING INC

1756 50th avenue, Lachine, Quebec, Canada

Prepared by

Guangdong Global Testing Technology Co., Ltd.

**Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park,
Dongguan city, Guangdong, People's Republic of China, 523808**

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
<u>V0</u>	<u>October 8, 2023</u>	<u>Initial Issue</u>	<u>Joson</u>

Summary of Test Results

Emission			
Standard	Test Item	Limit	Result
FCC 47 CFR Part 15 Subpart B	Conducted emissions	FCC Part 15.107	Pass
	Radiated emissions below 1GHz	FCC Part 15.109	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <FCC 47 CFR Part 15 Subpart B> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: ARTIKA FOR LIVING INC
 Address: 1756 50th avenue, Lachine, Quebec, Canada

Manufacturer Information

Company Name: Foshan Topday Optoelectronics Technology Co.,Ltd.
 Address: Huansheng Road,Guicheng Eastern industrial Zone BSanshan Nanhai DistrictFoshanChina

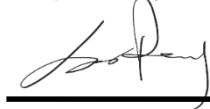
EUT Information

Product Description: Wilton 27 in. 1-Light LED Vanity Light Bar
 Model: VAN-WL5C-XXXXXX
 Series Model: VAN-WL5C-XXXXXX
 (The suffix "XXXXXX" can be A to Z and/or 0 to 9 and/or blank denotes commercial code)

Brand: Artika
 Sample Received Date: September 19, 2023
 Sample Status: Normal
 Sample ID: A23090641 001
 Date of Tested: September 20, 2023

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B	Pass

Prepared By:




Joson Peng
 Project Engineer

Checked By:



Alan He
 Laboratory Leader

Approved By:



Shawn Wen
 Laboratory Manager



2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR Part 15 Subpart B

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules</p> <p>ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.</p>
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions	0.009 MHz - 30 MHz	2	3.37
Radiated emissions below 1GHz	30 MHz -1 GHz	2	3.79
Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.			
Note 2: According to the standard CISPR 16-4-2, the MU for the Conducted emissions from the AC mains power ports using AMN should not exceed 3.8 in range of 9kHz to 150kHz and 3.4 in range of 150kHz to 30MHz. We have considered the test results containing the value of U _{lab} (in dB) for the measurement instrumentation actually used for the measurements.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Wilton 27 in. 1-Light LED Vanity Light Bar	
Model	VAN-WL5C-XXXXXX	
Series Model	VAN-WL5C-XXXXXX (The suffix "XXXXXX" can be A to Z and/or 0 to 9 and/or blank denotes commercial code)	
EUT Classification	Class B	
Ratings	120Vac 60Hz	
Test Power Supply	AC	120Vac 60Hz

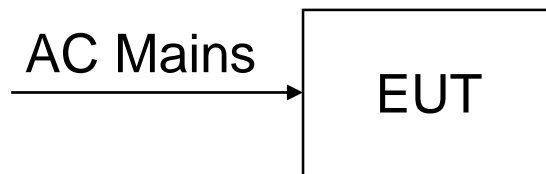
5.2. TEST MODE

Test Mode	Description
M01	MAX LIGHTING
M02	MIN LIGHTING

5.3. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit

5.4. SETUP DIAGRAM



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielding Room 1	CHENG YU	8*5*4	N/A	2022/10/29	2025/10/28
LISN	R&S	ENV216	102843	2022/10/8	2023/10/7
EMI Test Receiver	R&S	ESR3	102647	2022/12/3	2023/12/2
LISN	Schwarzbeck	NNLK 8129 RC	5046	2023/3/30	2024/3/29
8-Wire ISN CAT6	Schwarzbeck	NTFM 8158	#237	2022/10/29	2023/10/28
CURRENT PROBE	R&S	EZ-17	101602	2022/10/29	2023/10/28
EZ-EMC	Farad	Ver/EMC-con-3A1 1+	N/A	N/A	N/A

Test Equipment of Radiated emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Chamber	ETS	9*6*6	Q2146	2022/8/30	2025/8/29
Receiver	R&S	ESCI3	101409	2022/10/8	2023/10/7
Loop Antenna	ETS	6502	243668	2022/3/30	2025/3/30
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2022/10/29	2023/10/7
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/9
Biconilog Antenna	ETS	3142E	00243646	2022/3/23	2025/3/22
EZ-EMC	Farad	Ver/FA-03A2 RE+	N/A	N/A	N/A

7. EMISSION TEST

7.1. CONDUCTED EMISSIONS

LIMITS

CFR 47 FCC Part15 Subpart B				
FREQUENCY (MHz)	Class A (dBµV)		Class B (dBµV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46*
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

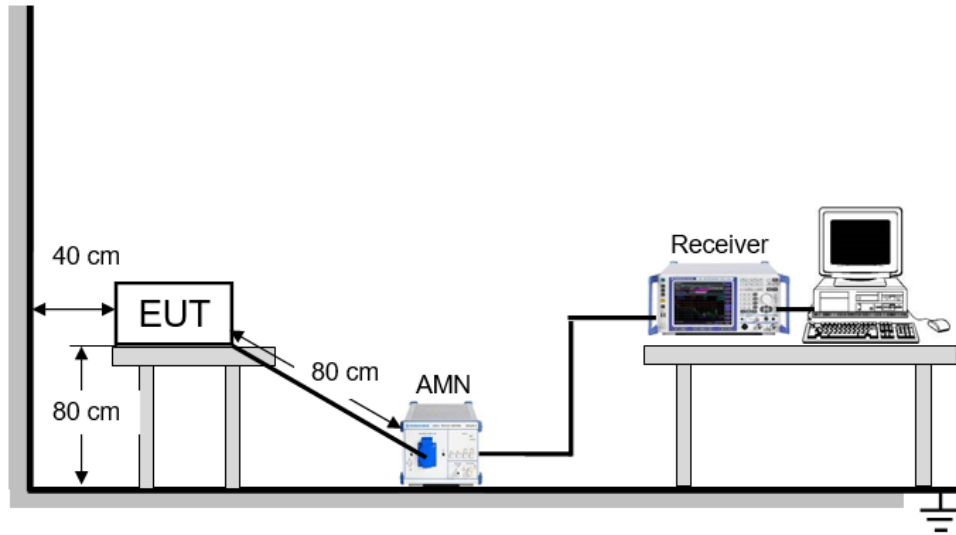
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.4-2014.
2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
5. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

TEST SETUP



TEST ENVIRONMENT

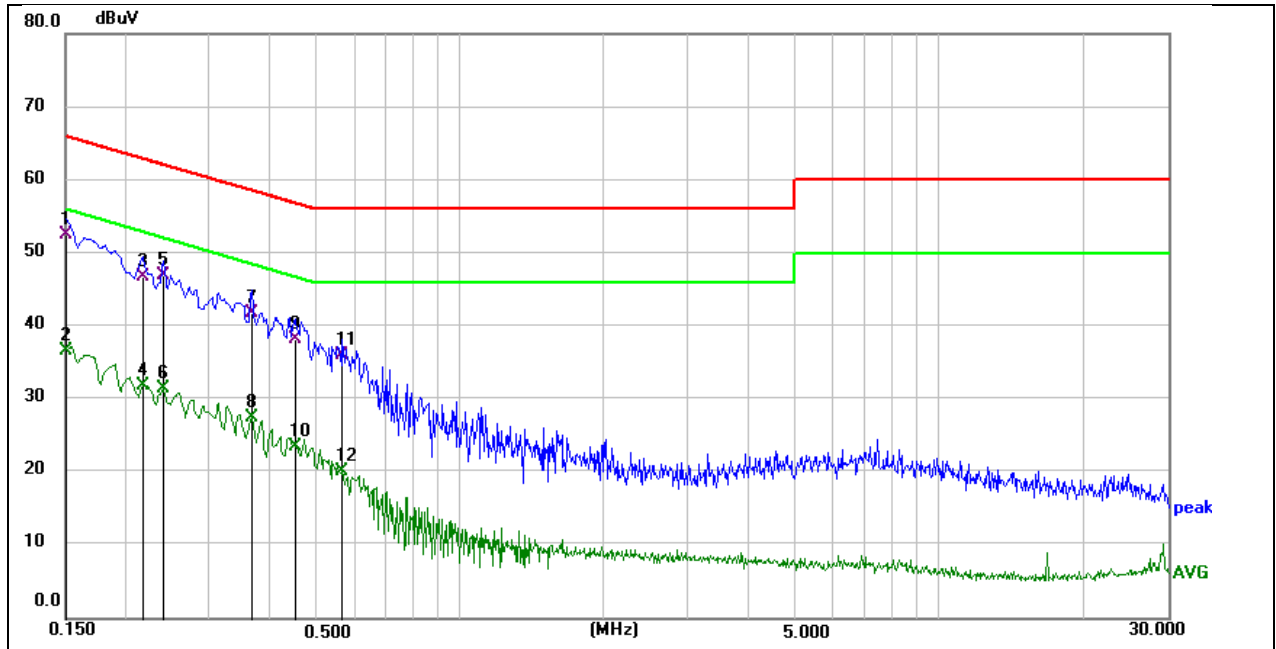
Temperature	26°C	Relative Humidity	54%
Atmosphere Pressure	98.3kPa		

TEST MODE

Pre-test Mode:	M01 ~ M02
Final Test Mode:	M01, M02

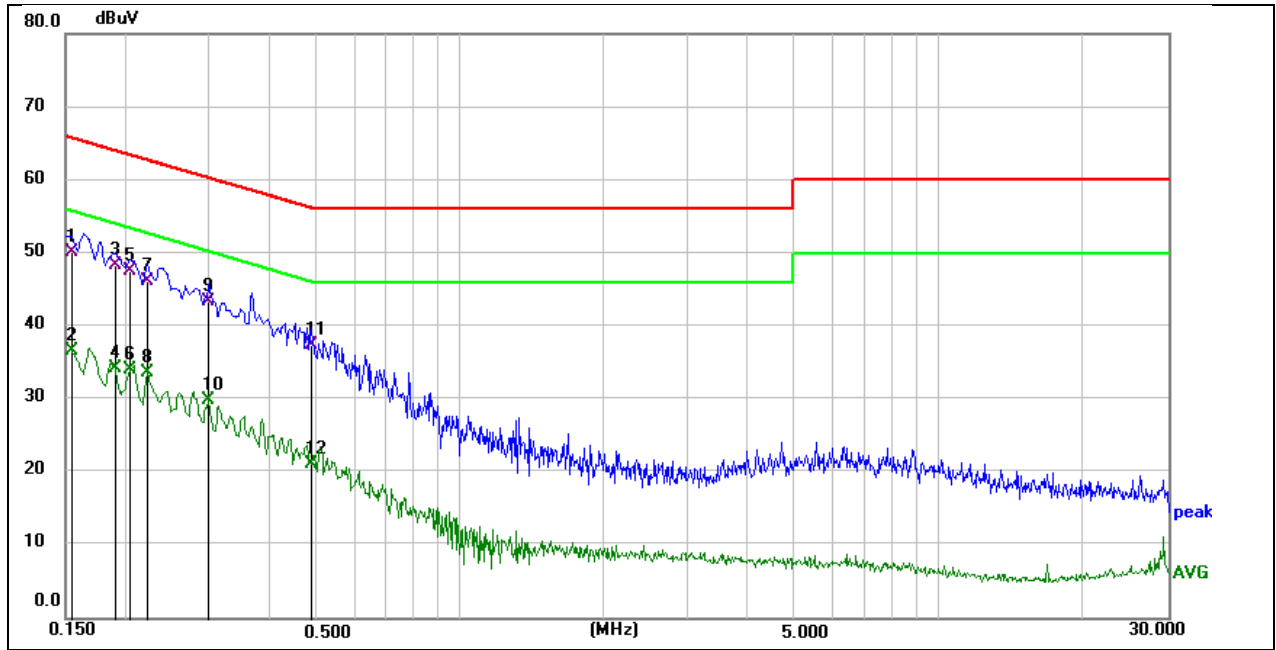
Note: All test modes had been tested, but only the worst data recorded in the report.

TEST RESULTS



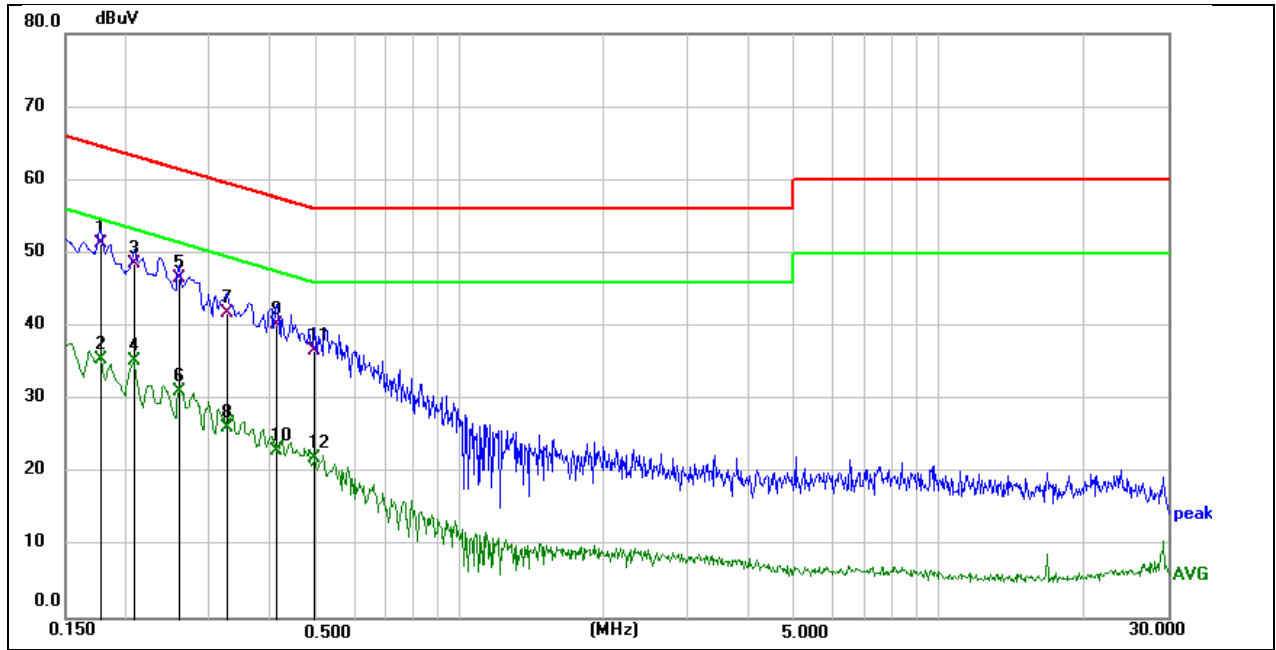
Site:	Shielding Room B-2	Phase: L1	Temperature(C): 26(C)
Limit:	FCC Part 15 B Conduction(QP)	Test Time:	Humidity(%): 54%RH
EUT:	Wilton 27 in. 1-Light LED Vanity Light Bar	Power Rating:	2023/9/20
M/N.:	VAN-WL5C-XXXXXX	Test Engineer:	Rick
Mode:	M01		
Note:	Max Lighting		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	42.84	9.76	52.60	66.00	-13.40	QP
2	0.1500	26.93	9.76	36.69	56.00	-19.31	AVG
3	0.2174	37.04	9.76	46.80	62.92	-16.12	QP
4	0.2174	22.20	9.76	31.96	52.92	-20.96	AVG
5	0.2400	37.24	9.66	46.90	62.10	-15.20	QP
6	0.2400	21.80	9.66	31.46	52.10	-20.64	AVG
7	0.3660	31.92	9.88	41.80	58.59	-16.79	QP
8	0.3660	17.52	9.88	27.40	48.59	-21.19	AVG
9	0.4515	28.27	9.93	38.20	56.85	-18.65	QP
10	0.4515	13.57	9.93	23.50	46.85	-23.35	AVG
11	0.5685	26.30	9.80	36.10	56.00	-19.90	QP
12	0.5685	10.28	9.80	20.08	46.00	-25.92	AVG



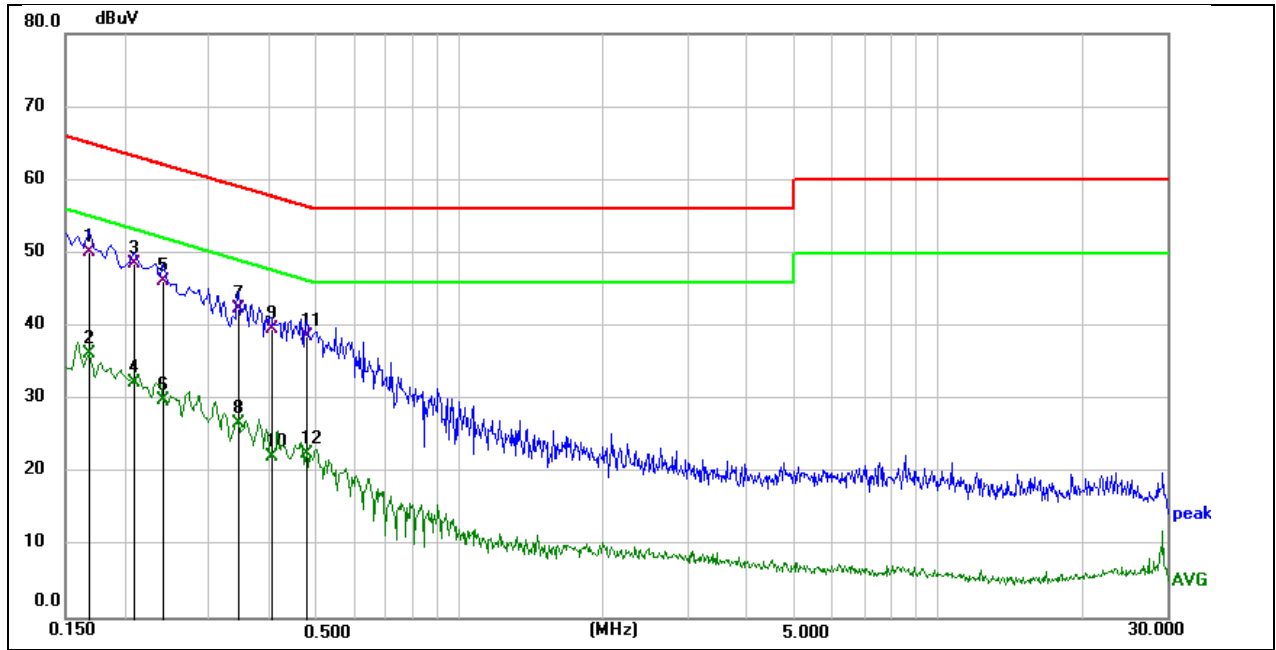
Site:	Shielding Room B-2	Phase: N	Temperature(C): 26(C)
Limit:	FCC Part 15 B Conduction(QP)		Humidity(%): 54%RH
EUT:	Wilton 27 in. 1-Light LED Vanity Light Bar	Test Time:	2023/9/20
M/N.:	VAN-WL5C-XXXXXX	Power Rating:	AC120V/60Hz
Mode:	M01	Test Engineer:	Rick
Note:	Max Lighting		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1544	40.53	9.67	50.20	65.76	-15.56	QP
2	0.1544	26.94	9.67	36.61	55.76	-19.15	AVG
3	0.1905	38.55	9.75	48.30	64.01	-15.71	QP
4	0.1905	24.45	9.75	34.20	54.01	-19.81	AVG
5	0.2040	37.83	9.77	47.60	63.45	-15.85	QP
6	0.2040	24.24	9.77	34.01	53.45	-19.44	AVG
7	0.2220	36.30	9.80	46.10	62.74	-16.64	QP
8	0.2220	23.76	9.80	33.56	52.74	-19.18	AVG
9	0.2983	33.61	9.69	43.30	60.29	-16.99	QP
10	0.2983	20.23	9.69	29.92	50.29	-20.37	AVG
11	0.4874	27.63	9.87	37.50	56.21	-18.71	QP
12	0.4874	11.33	9.87	21.20	46.21	-25.01	AVG



Site:	Shielding Room B-2	Phase: L1	Temperature(C): 26(C)
Limit:	FCC Part 15 B Conduction(QP)	Test Time:	Humidity(%): 54%RH
EUT:	Wilton 27 in. 1-Light LED Vanity Light Bar	Power Rating:	2023/9/20
M/N.:	VAN-WL5C-XXXXXX	Test Engineer:	AC120V/60Hz
Mode:	M02		Rick
Note:	Min Lighting		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1770	41.61	9.79	51.40	64.63	-13.23	QP
2	0.1770	25.72	9.79	35.51	54.63	-19.12	AVG
3	0.2084	38.80	9.80	48.60	63.27	-14.67	QP
4	0.2084	25.41	9.80	35.21	53.27	-18.06	AVG
5	0.2580	36.83	9.67	46.50	61.50	-15.00	QP
6	0.2580	21.44	9.67	31.11	51.50	-20.39	AVG
7	0.3255	31.91	9.89	41.80	59.57	-17.77	QP
8	0.3255	16.12	9.89	26.01	49.57	-23.56	AVG
9	0.4148	30.29	9.91	40.20	57.55	-17.35	QP
10	0.4148	12.96	9.91	22.87	47.55	-24.68	AVG
11	0.4964	26.76	9.94	36.70	56.06	-19.36	QP
12	0.4964	12.06	9.94	22.00	46.06	-24.06	AVG



Site:	Shielding Room B-2	Phase: N	Temperature(C): 26(C)
Limit:	FCC Part 15 B Conduction(QP)		Humidity(%): 54%RH
EUT:	Wilton 27 in. 1-Light LED Vanity Light Bar	Test Time:	2023/9/20
M/N.:	VAN-WL5C-XXXXXX	Power Rating:	AC120V/60Hz
Mode:	M02	Test Engineer:	Rick
Note:	Min Lighting		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1680	40.47	9.73	50.20	65.06	-14.86	QP
2	0.1680	26.49	9.73	36.22	55.06	-18.84	AVG
3	0.2084	38.82	9.78	48.60	63.27	-14.67	QP
4	0.2084	22.39	9.78	32.17	53.27	-21.10	AVG
5	0.2400	36.27	9.83	46.10	62.10	-16.00	QP
6	0.2400	20.13	9.83	29.96	52.10	-22.14	AVG
7	0.3435	32.55	9.75	42.30	59.12	-16.82	QP
8	0.3435	17.02	9.75	26.77	49.12	-22.35	AVG
9	0.4020	29.95	9.75	39.70	57.81	-18.11	QP
10	0.4020	12.34	9.75	22.09	47.81	-25.72	AVG
11	0.4784	28.74	9.86	38.60	56.37	-17.77	QP
12	0.4784	12.71	9.86	22.57	46.37	-23.80	AVG

Remark: Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
 Margin = Result - Limit

7.2. RADIATED EMISSIONS BELOW 1GHZ

LIMITS

Below 1 GHz

CFR 47 FCC Part 15 Subpart B		
Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3 m)	Field strength (dBuV/m) (at 3 m)
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

Test Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m),
3m Emission level = 10 m Emission level + 20log(10 m/3 m);

TEST PROCEDURE

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

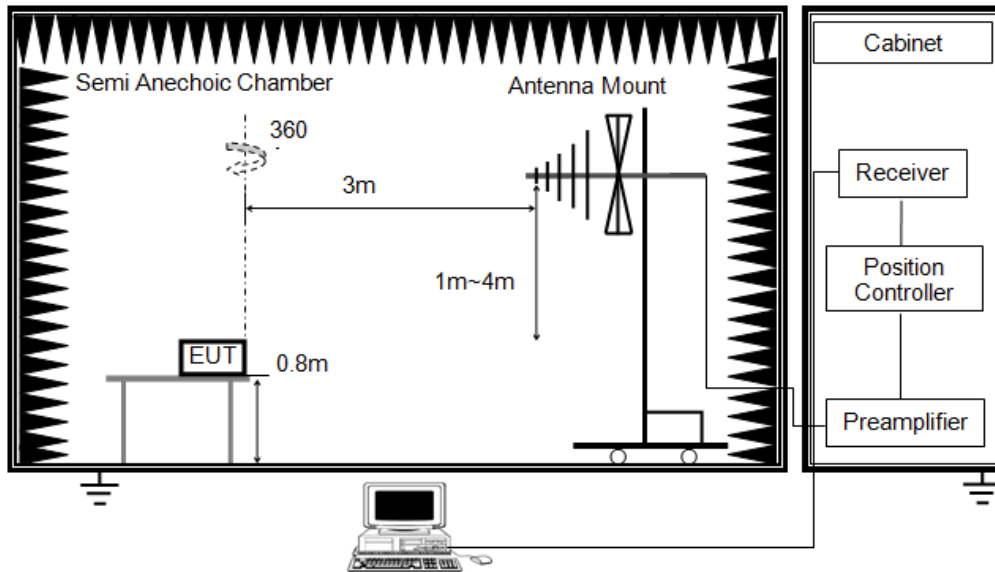
RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak and QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.4-2014.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp was used

for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
8. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

TEST SETUP



TEST ENVIRONMENT

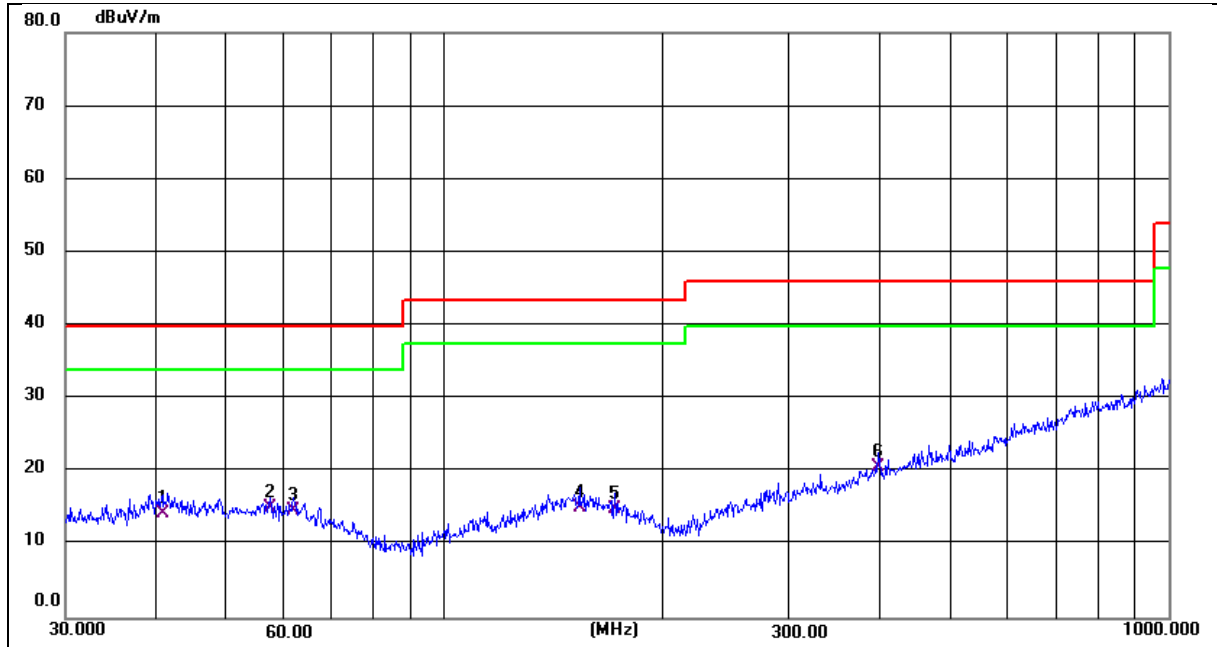
Temperature	23°C	Relative Humidity	52%
Atmosphere Pressure	101kPa		

TEST MODE

Pre-test Mode:	M01 ~ M02
Final Test Mode:	M01, M02

Note: All test modes had been tested, but only the worst data recorded in the report.

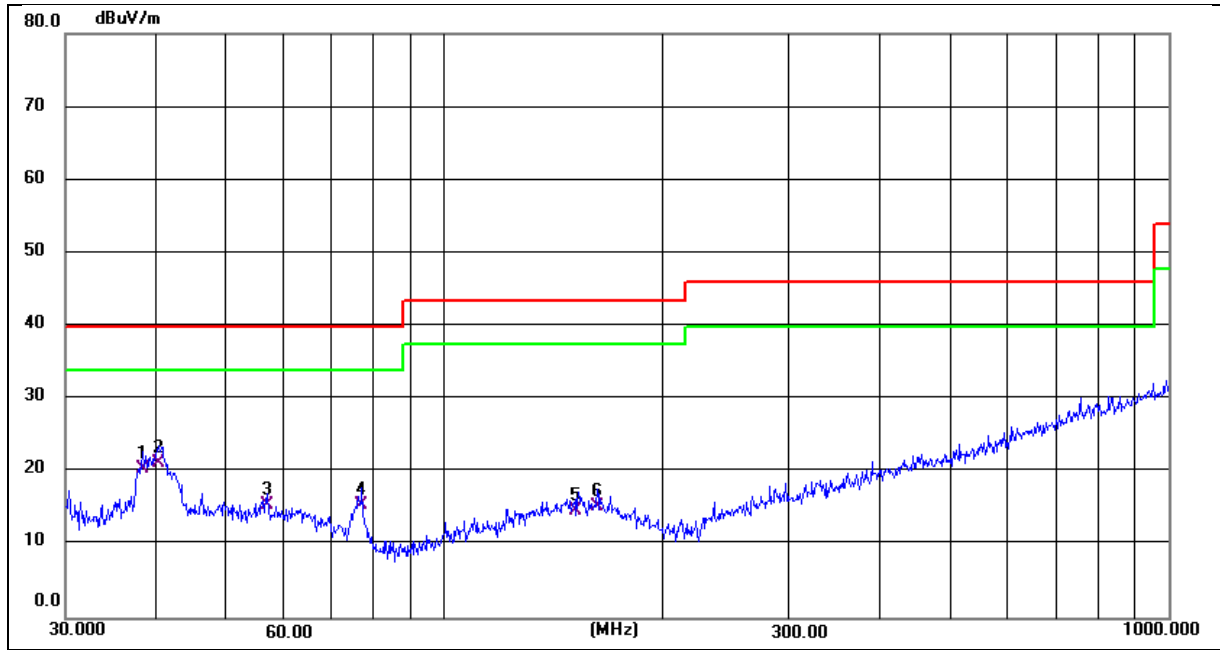
TEST RESULTS



Site:		Antenna:: Horizontal	Temperature(C): 24(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)		Humidity(%): 53%
EUT:	Wilton 27 in. 1-Light LED Vanity Light Bar	Test Time:	2023/9/20
M/N.:	VAN-WL5C-XXXXXX	Power Rating:	AC120V/60Hz
Mode:	M01	Test Engineer:	Rick
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measurement(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	40.8445	26.58	-12.28	14.30	40.00	-25.70	QP	
2 *	57.5940	27.71	-12.51	15.20	40.00	-24.80	QP	
3	61.9950	27.62	-12.92	14.70	40.00	-25.30	QP	
4	153.7385	26.79	-11.69	15.10	43.50	-28.40	QP	
5	171.9946	27.49	-12.59	14.90	43.50	-28.60	QP	
6	397.6334	29.42	-8.82	20.60	46.00	-25.40	QP	

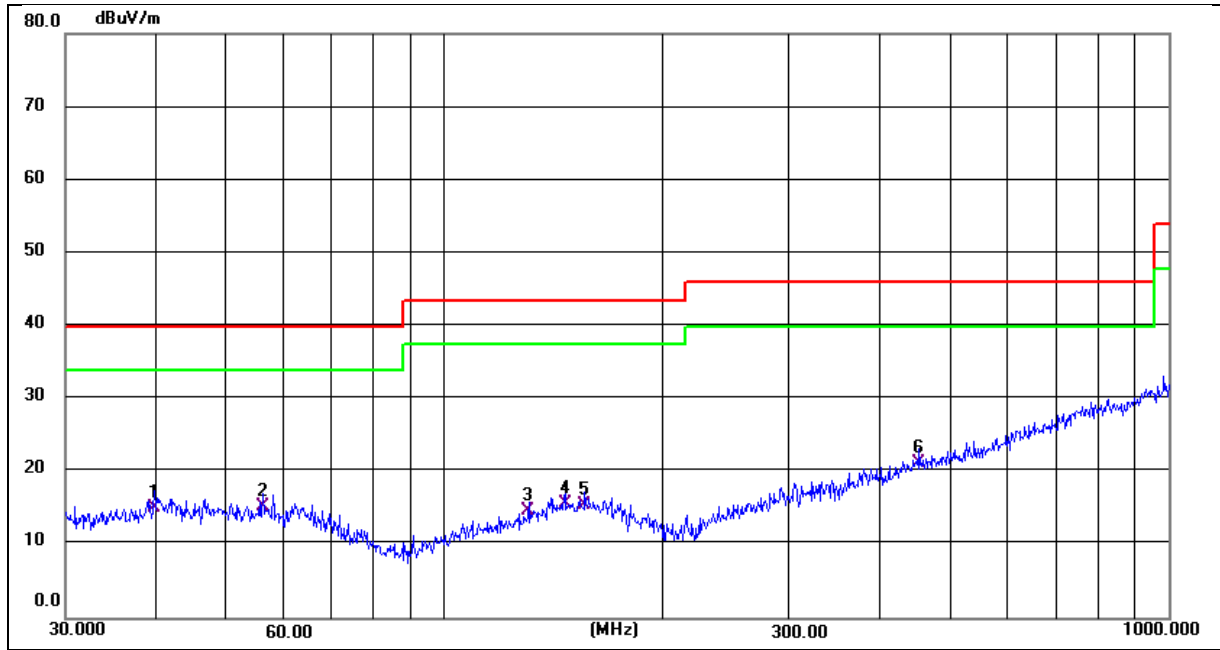
*:Maximum data x:Over limit !:over margin



Site:		Antenna: Vertical	Temperature(C): 24(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)		Humidity(%): 53%
EUT:	Wilton 27 in. 1-Light LED Vanity Light Bar	Test Time:	2023/9/20
M/N.:	VAN-WL5C-XXXXXX	Power Rating:	AC120V/60Hz
Mode:	M01	Test Engineer:	Rick
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measurement(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	38.3462	32.80	-12.30	20.50	40.00	-19.50	QP	
2 *	40.4170	33.47	-12.27	21.20	40.00	-18.80	QP	
3	56.9912	28.08	-12.58	15.50	40.00	-24.50	QP	
4	77.0505	31.54	-15.94	15.60	40.00	-24.40	QP	
5	151.5972	26.47	-11.77	14.70	43.50	-28.80	QP	
6	162.6105	27.21	-11.91	15.30	43.50	-28.20	QP	

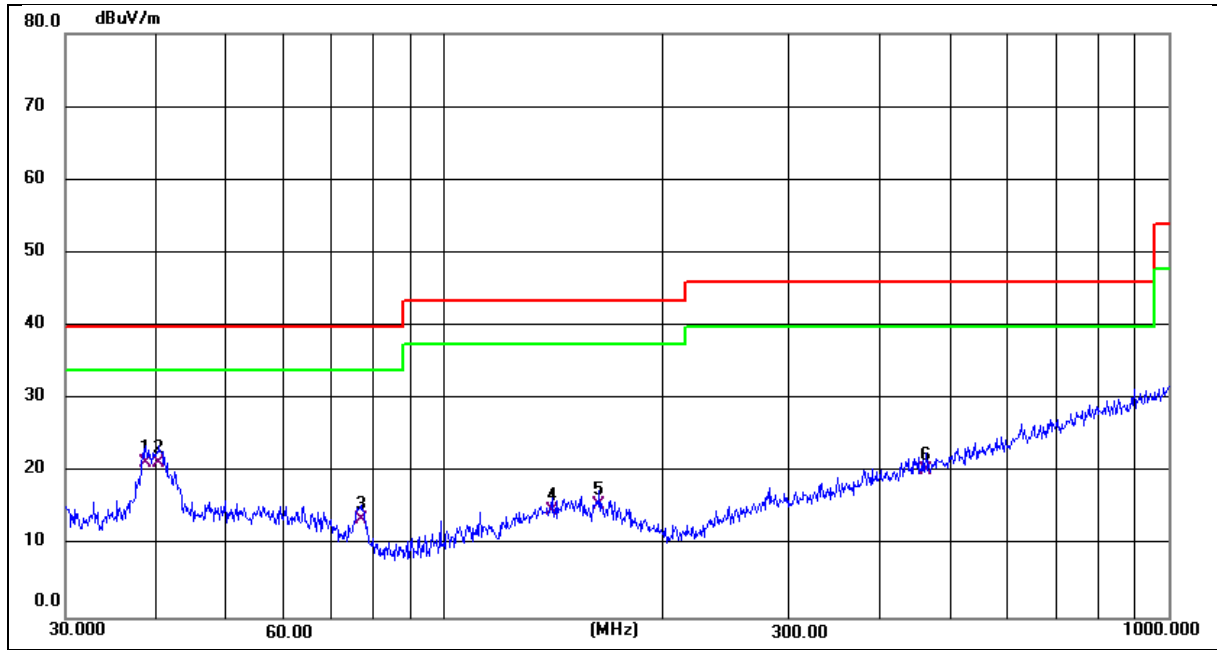
*:Maximum data x:Over limit !:over margin



Site:	Antenna::Horizontal	Temperature(C):24(C)
Limit: FCC Part 15 Class B 3m Radiation(QP)		Humidity(%):53%
EUT: Wilton 27 in. 1-Light LED Vanity Light Bar	Test Time:	2023/9/20
M/N.: VAN-WL5C-XXXXXX	Power Rating:	AC120V/60Hz
Mode: M02	Test Engineer:	Rick
Note:		

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measurement(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	39.8542	27.39	-12.29	15.10	40.00	-24.90	QP	
2 *	56.1974	27.65	-12.35	15.30	40.00	-24.70	QP	
3	130.8369	28.14	-13.34	14.80	43.50	-28.70	QP	
4	146.8876	27.54	-11.84	15.70	43.50	-27.80	QP	
5	156.4577	27.42	-11.82	15.60	43.50	-27.90	QP	
6	452.7197	28.41	-7.11	21.30	46.00	-24.70	QP	

*:Maximum data x:Over limit !:over margin



Site:		Antenna:: Vertical	Temperature(C): 24(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)		Humidity(%): 53%
EUT:	Wilton 27 in. 1-Light LED Vanity Light Bar	Test Time:	2023/9/20
M/N.:	VAN-WL5C-XXXXXX	Power Rating:	AC120V/60Hz
Mode:	M02	Test Engineer:	Rick
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measurement(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1 *	38.7518	33.66	-12.36	21.30	40.00	-18.70	QP	
2	40.4172	33.47	-12.27	21.20	40.00	-18.80	QP	
3	76.7808	29.37	-15.87	13.50	40.00	-26.50	QP	
4	140.8351	26.92	-12.22	14.70	43.50	-28.80	QP	
5	163.7550	27.48	-11.98	15.50	43.50	-28.00	QP	
6	462.3455	27.39	-7.09	20.30	46.00	-25.70	QP	

Remark: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)
 2. Margin = Result - Limit

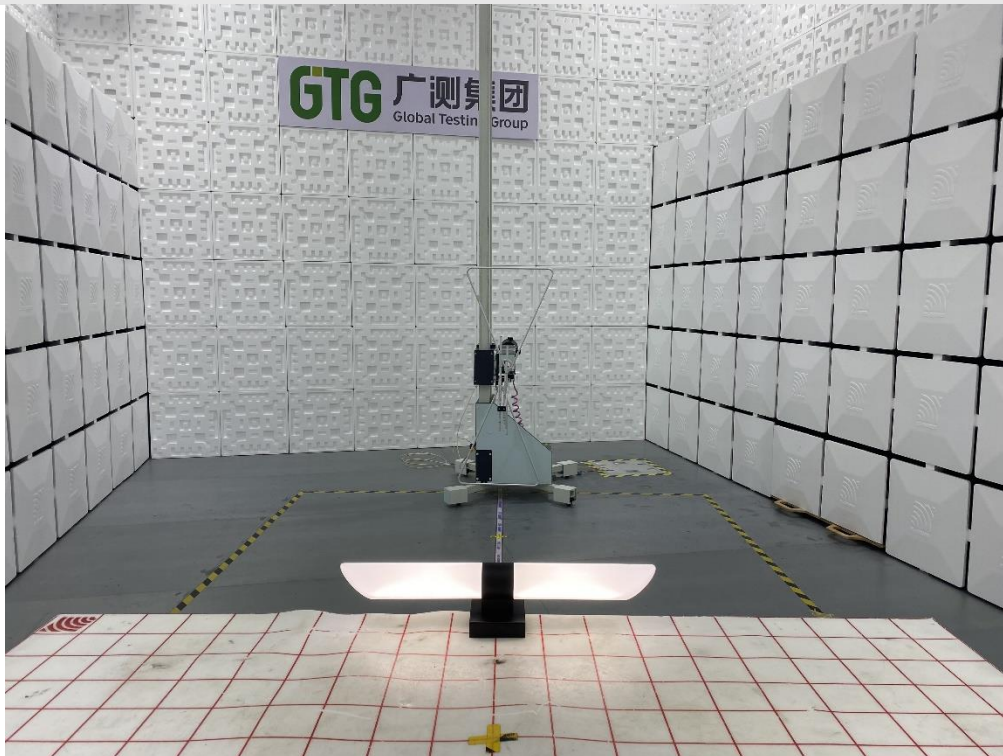
*:Maximum data x:Over limit !:over margin

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

Conducted emissions



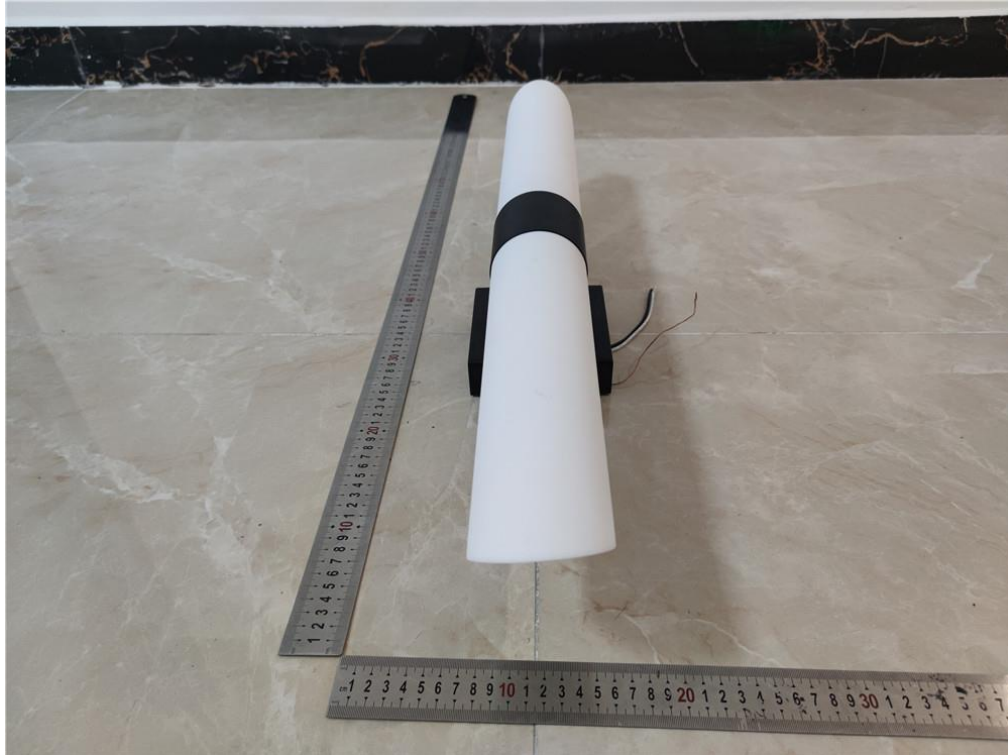
Radiated emissions below 1GHz



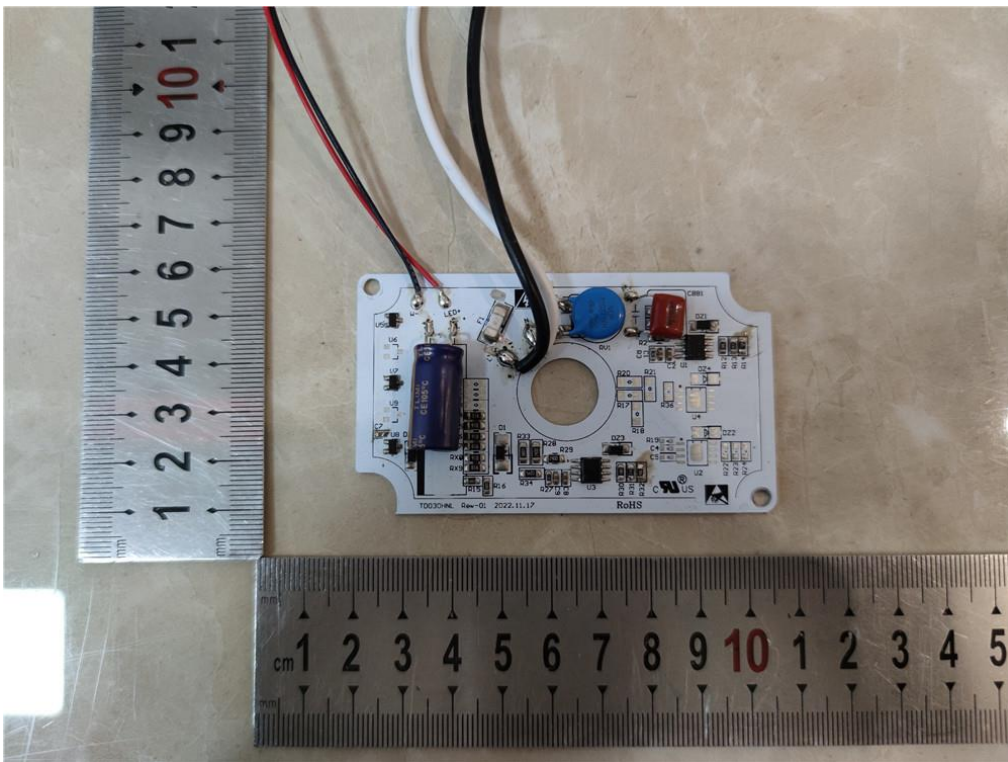
APPENDIX: PHOTOGRAPHS OF THE EUT

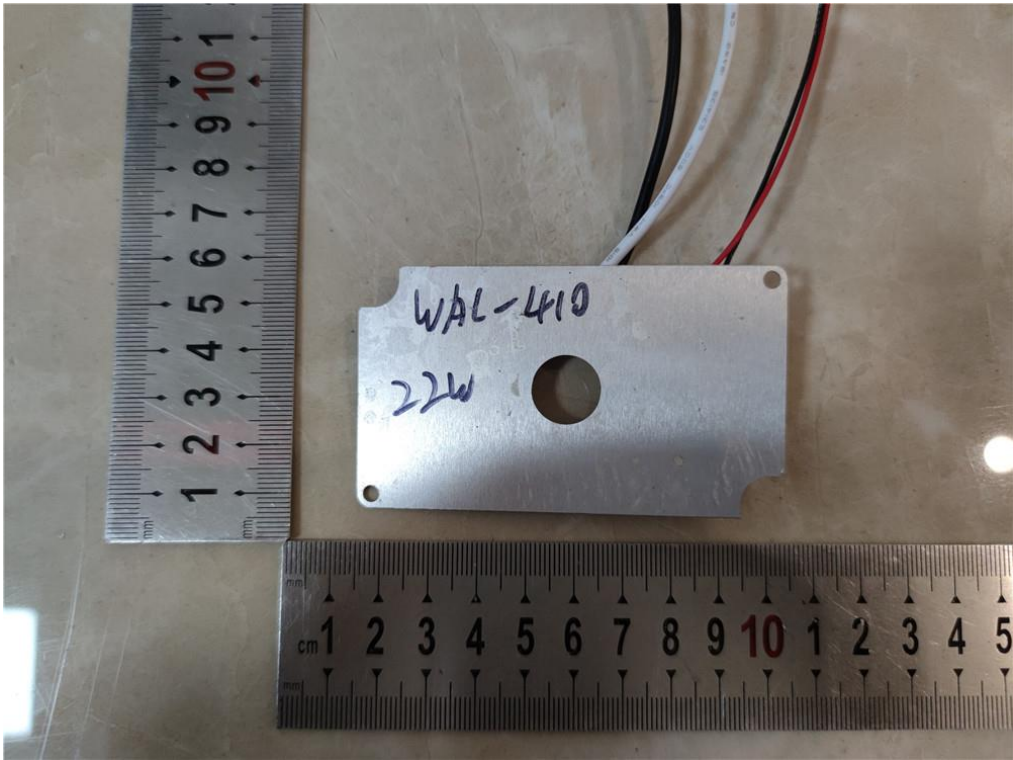
External

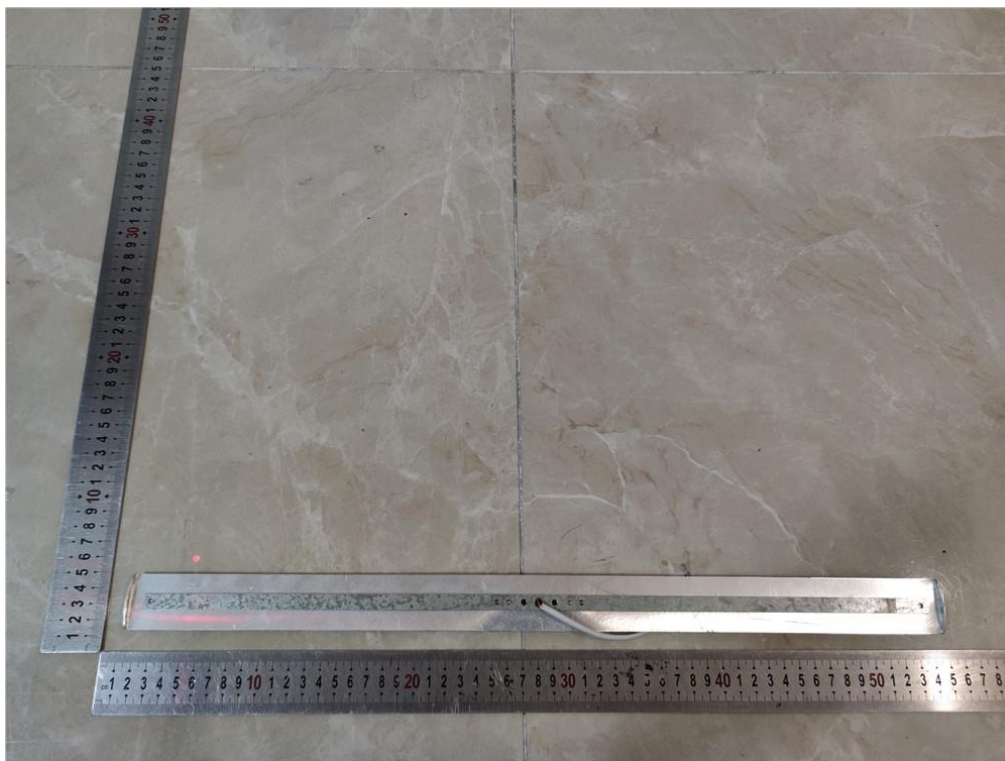


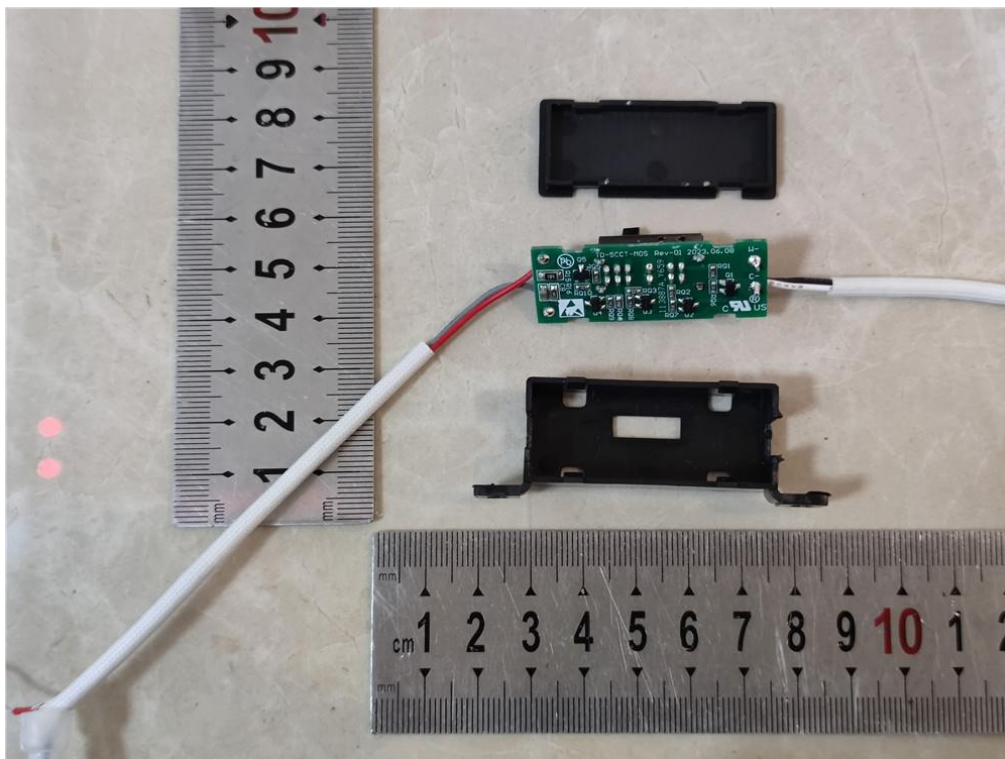
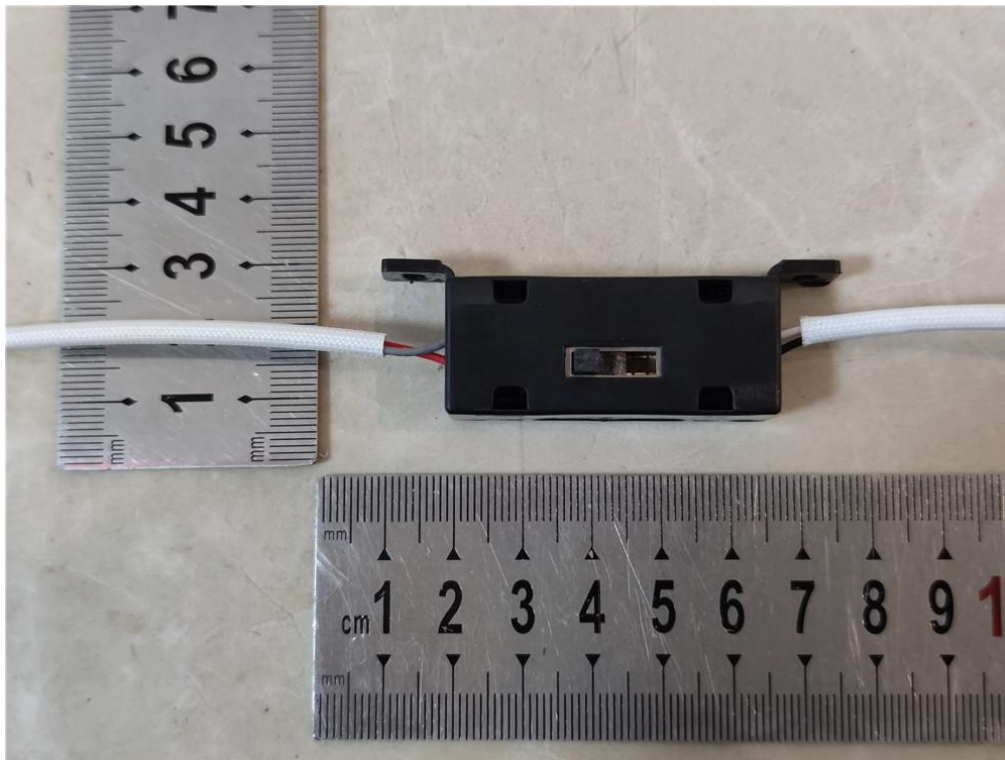


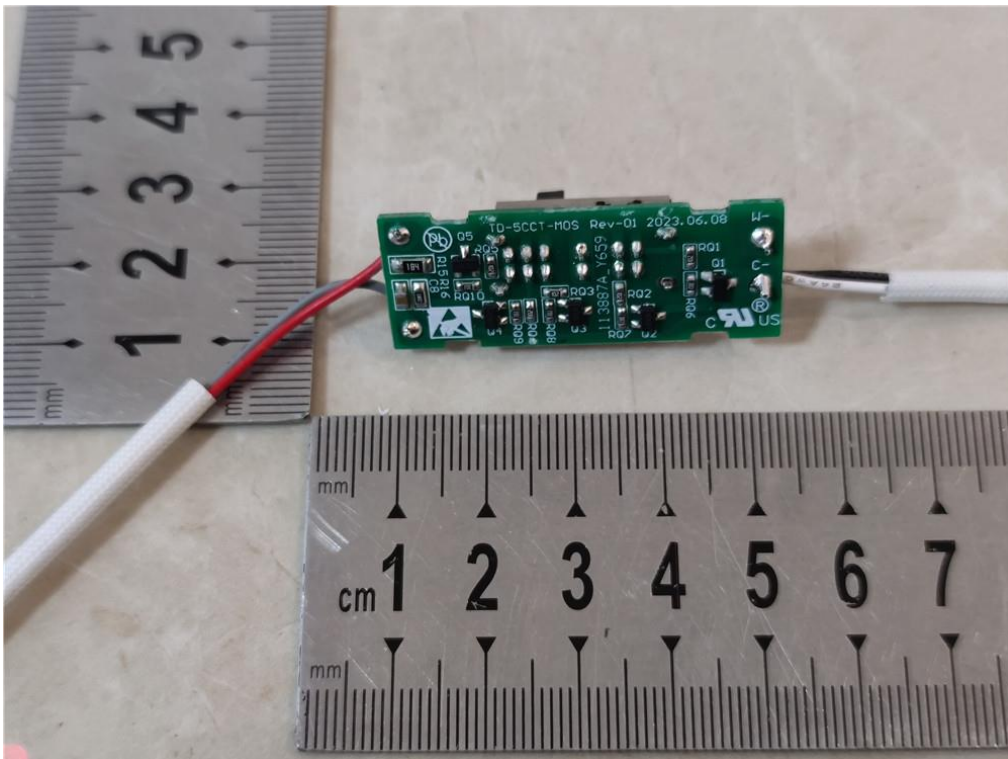
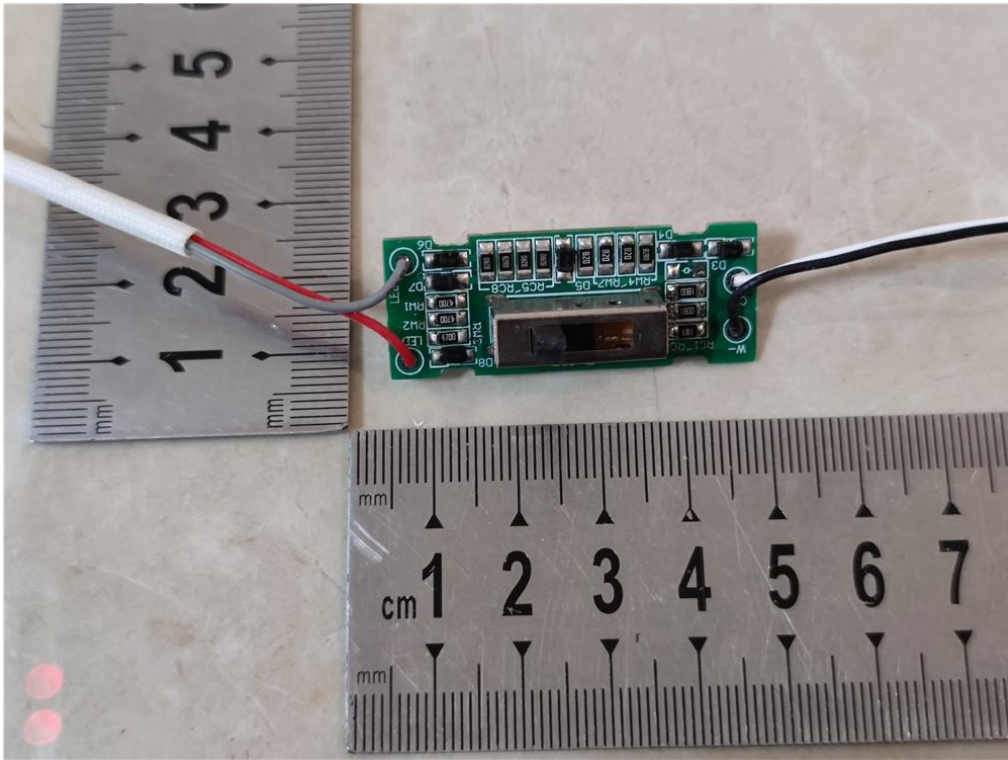
Internal











END OF REPORT