



## FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC

Willow Pendant

Test Model: PDT-WIC-BLJ

Additional Model No.: PDT-WIC-XXXXXX

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

Prepared for : ARTIKA FOR LIVING INC  
Address : 1756 50th avenue, Lachine, Qc, Canada H8T 2V5

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park  
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Date of receipt of test sample : April 20, 2022  
Number of tested samples : 2  
Sample No. : 220301138A  
Serial number : Prototype  
Date of Test : April 20, 2022 ~ April 24, 2022  
Date of Report : April 27, 2022



Scan code to check authenticity



**FCC Part 15, Subpart B, Class B  
FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014**

**Report Reference No.** ..... : **LCS220301138AE**

**Date Of Issue** ..... : April 27, 2022

**Testing Laboratory Name**..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.**

**Address** ..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park  
Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,  
518000, China

**Testing Location/ Procedure**..... : Full application of Harmonised standards ■  
Partial application of Harmonised standards □  
Other standard testing method □

**Applicant's Name**..... : **ARTIKA FOR LIVING INC**

**Address** ..... : 1756 50th avenue, Lachine, Qc, Canada H8T 2V5

**Test Specification**

**Standard** ..... : FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014

**Test Report Form No.** ..... : LCSEMC-1.0

**TRF Originator** ..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

**Master TRF**..... : Dated 2011-03

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**Test Item Description.** ..... : **Willow Pendant**

**Test Model** ..... : PDT-WIC-BLJ

**Trade Mark** ..... : Artika

**Ratings** ..... : Input: AC 120V, 60Hz, 34W

**Result** ..... : **Positive**

**Compiled by:**

Vera Deng/ Administrator

**Supervised by:**

Jin Wang/ Technique principal

**Approved by:**

Gavin Liang/ Manager



### FCC -- TEST REPORT

<b>Test Report No. :</b> LCS220301138AE	<u>April 27, 2022</u> Date of issue
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Test Model .....	: PDT-WIC-BLJ
EUT.....	: Willow Pendant
<b>Applicant.....</b>	<b>: ARTIKA FOR LIVING INC</b>
Address.....	: 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5
Telephone.....	: /
Fax.....	: /
<b>Manufacturer.....</b>	<b>: Zhongshan Jiafeng Lighting Co., Ltd.</b>
Address.....	: No. 18, Fuqing 4th Road, Yongxing Industrial Park, Henglan Town, Zhongshan City, Guangdong, China
Telephone.....	: /
Fax.....	: /
<b>Factory.....</b>	<b>: Zhongshan Jiafeng Lighting Co., Ltd.</b>
Address.....	: No. 18, Fuqing 4th Road, Yongxing Industrial Park, Henglan Town, Zhongshan City, Guangdong, China
Telephone.....	: /
Fax.....	: /

<b>Test Result</b> according to the standards on page 6:	<b>Positive</b>
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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.



### **Revision History**

Revision	Issue Date	Revision Content	Revised By
000	April 27, 2022	Initial Issue	Gavin Liang



## TABLE OF CONTENTS

Test Report Description	Page
<b>1. SUMMARY OF STANDARDS AND RESULTS .....</b>	<b>6</b>
1.1. Description of Standards and Results.....	6
<b>2. GENERAL INFORMATION .....</b>	<b>7</b>
2.1. Description of Device (EUT) .....	7
2.2. Support Equipment List.....	7
2.3. Description of Test Facility .....	7
2.4. Statement of the Measurement Uncertainty .....	8
2.5. Measurement Uncertainty .....	8
<b>3. TEST RESULTS .....</b>	<b>9</b>
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT.....	9
3.2. Radiated emission Measurement.....	13
<b>4. TEST SETUP PHOTOGRAPHS OF EUT.....</b>	<b>17</b>
<b>5. EXTERIOR PHOTOGRAPHS OF THE EUT.....</b>	<b>17</b>
<b>6. INTERIOR PHOTOGRAPHS OF THE EUT .....</b>	<b>17</b>



## 1. SUMMARY OF STANDARDS AND RESULTS

### 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS

N/A is an abbreviation for Not Applicable.

Test mode:		
Mode	Lighting	Record
***Note: All test modes were tested, but we only recorded the worst case in this report.		



## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

EUT : Willow Pendant

Trade Mark : Artika

Test Model : PDT-WIC-BLJ

Additional Model : PDT-WIC- XXXXXX("XXXXXX" can be A to Z and/or 0 to 9 and/or blank (commercial code))

Model Declaration : PCB board, structure and internal of these model(s) are the same, So no additional models were tested

Power Supply : Input: AC 120V, 60Hz, 34W

Highest internal frequency (F<sub>x</sub>) : F<sub>x</sub> ≤ 108 MHz

Highest internal frequency (F <sub>x</sub> )	Highest measured frequency
F <sub>x</sub> ≤ 108 MHz	1 GHz
108 MHz < F <sub>x</sub> ≤ 500 MHz	2 GHz
500 MHz < F <sub>x</sub> ≤ 1 GHz	5 GHz
F <sub>x</sub> > 1 GHz	5 × F <sub>x</sub> up to a maximum of 6 GHz
NOTE 1 For FM and TV broadcast receivers, F <sub>x</sub> is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies. Where F <sub>x</sub> is unknown, the radiated emission measurements shall be performed up to 6 GHz.	

### 2.2. Support Equipment List

Name	Manufacturers	M/N	S/N
--	--	--	--

### 2.3. Description of Test Facility

Site Description  
 EMC Lab. : NVLAP Accreditation Code is 600167-0.  
 FCC Designation Number is CN5024.  
 CAB identifier is CN0071.  
 CNAS Registration Number is L4595.



## 2.4. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

## 2.5. Measurement Uncertainty

Test	Parameters	Expanded Uncertainty (Ulab)	Expanded Uncertainty (Ucisp)
Conducted Emission	Level accuracy (9kHz to 150kHz)	± 2.63 dB	± 3.8 dB
	(150kHz to 30MHz)	± 2.35 dB	± 3.4 dB
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.



### 3. TEST RESULTS

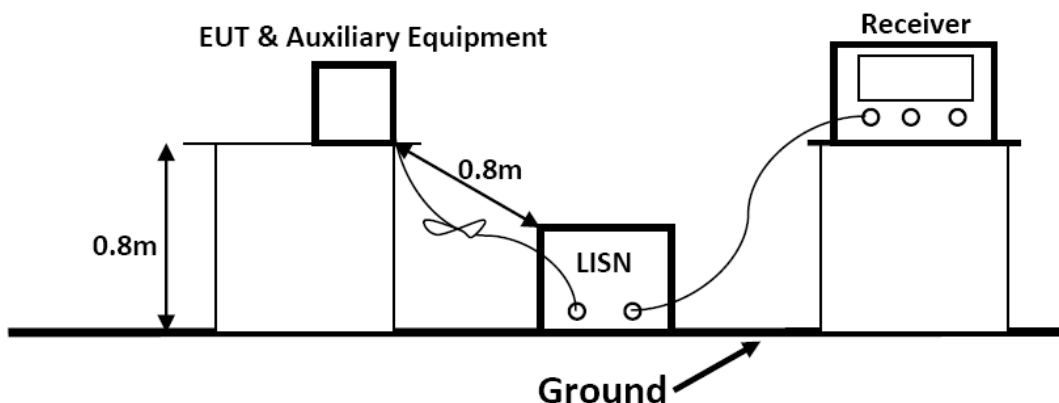
#### 3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

##### 3.1.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Receiver	R&S	ESCI	101142	2021-06-08	2022-06-08
2	10dB Attenuator	SCHWARZBECK	VTSD9561-F	9561-F159	2021-06-08	2022-06-08
3	Artificial Mains Network	SCHWARZBECK	NSLK8127	8127716	2021-06-08	2022-06-08
4	EMI Test Software	EZ	EZ EMC	N/A	/	/
5	Asymmetric Artificial Network	SCHWARZBECK	NTFM 8158	NTFM8158#120	2021-06-08	2022-06-08
6	Voltage Probe	SCHWARZBECK	KT 9420	9420401	2021-06-08	2022-06-08
7	No. 2 shielded Room	CHENGYU	843	/	2020-06-16	2023-06-16

##### 3.1.2. Block Diagram of Test Setup



##### 3.1.3. Test Standard

###### Power Line Conducted Emission Limits (Class B)

Frequency (MHz)			Limit (dBμV)	
			Quasi-peak Level	Average Level
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~	5.00	56.0	46.0
5.00	~	30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.

NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

##### 3.1.4. EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.



### 3.1.5. Operating Condition of EUT

3.1.5.1. Setup the EUT as shown on Section 3.1.2

3.1.5.2. Turn on the power of all equipments.

3.1.5.3. Let the EUT work in measuring Lighting and measure it.

### 3.1.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of the test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is investigated

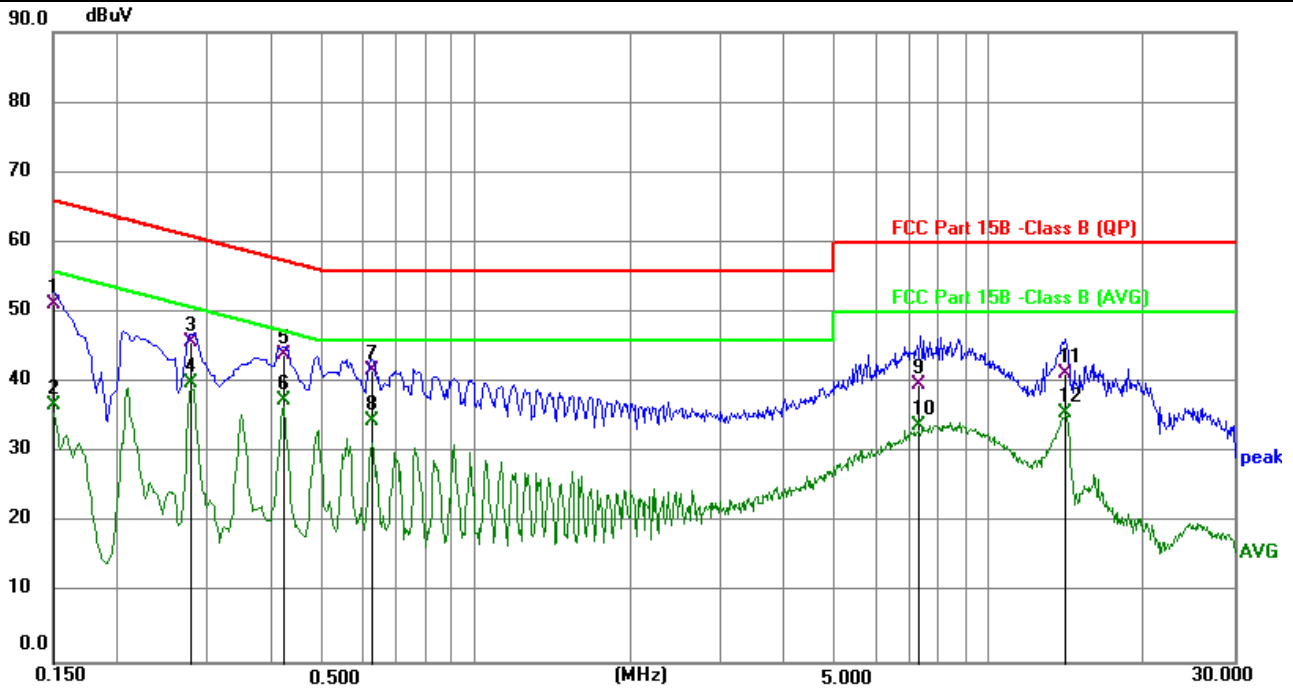
### 3.1.7. Test Results

**PASS.**

The test result please refer to the next page.



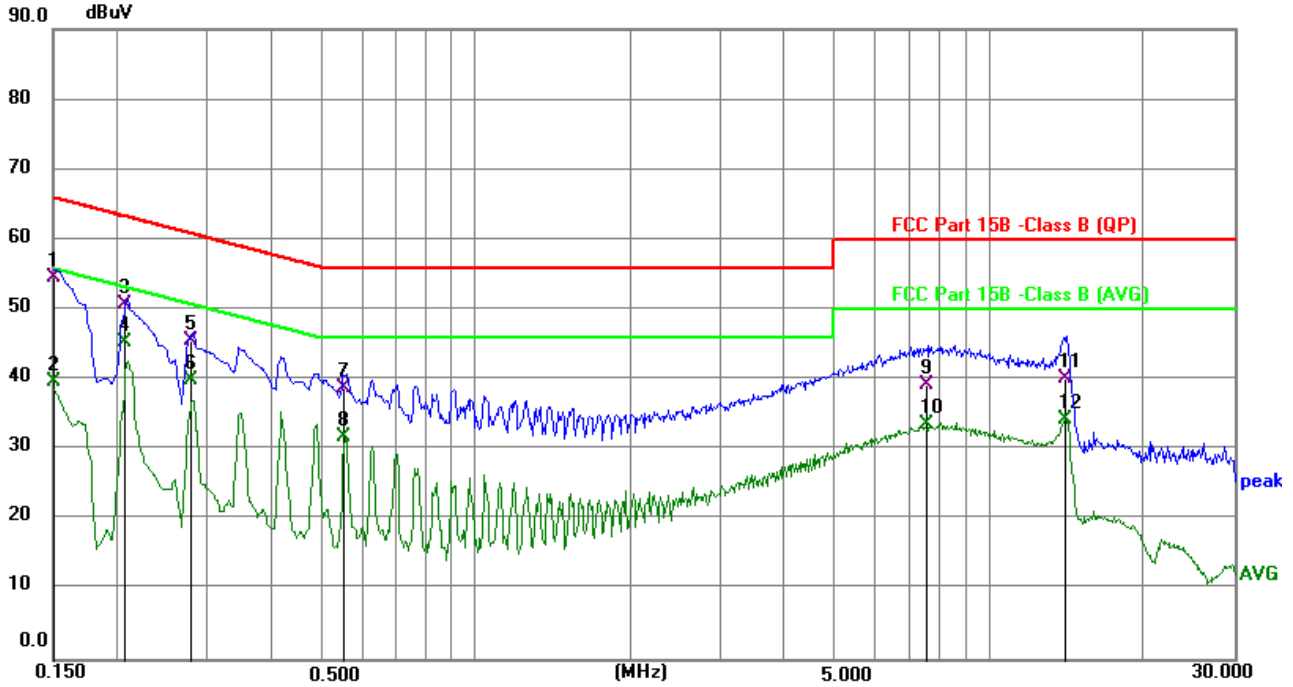
<b>Test Model</b>	PDT-WIC-BLJ	<b>Test Mode</b>	Lighting
<b>Environmental Conditions</b>	24.5°C, 52% RH	<b>Test Engineer</b>	Monkey Li
<b>Pol</b>	Line	<b>Test Voltage</b>	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	40.92	10.24	51.16	66.00	-14.84	QP	
2		0.1500	26.54	10.24	36.78	56.00	-19.22	AVG	
3		0.2788	35.57	10.21	45.78	60.85	-15.07	QP	
4		0.2788	29.83	10.21	40.04	50.85	-10.81	AVG	
5		0.4213	33.68	10.20	43.88	57.42	-13.54	QP	
6	*	0.4213	27.27	10.20	37.47	47.42	-9.95	AVG	
7		0.6283	31.54	10.20	41.74	56.00	-14.26	QP	
8		0.6283	24.40	10.20	34.60	46.00	-11.40	AVG	
9		7.3513	29.60	10.20	39.80	60.00	-20.20	QP	
10		7.3513	23.58	10.20	33.78	50.00	-16.22	AVG	
11		14.0157	30.99	10.20	41.19	60.00	-18.81	QP	
12		14.0157	25.57	10.20	35.77	50.00	-14.23	AVG	



Test Model	PDT-WIC-BLJ	Test Mode	Lighting
Environmental Conditions	24.5°C, 52% RH	Test Engineer	Monkey Li
Pol	Neutral	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	44.37	10.24	54.61	66.00	-11.39	QP	
2		0.1500	29.41	10.24	39.65	56.00	-16.35	AVG	
3		0.2076	40.44	10.22	50.66	63.30	-12.64	QP	
4	*	0.2076	35.03	10.22	45.25	53.30	-8.05	AVG	
5		0.2768	35.43	10.21	45.64	60.91	-15.27	QP	
6		0.2768	29.63	10.21	39.84	50.91	-11.07	AVG	
7		0.5534	28.61	10.20	38.81	56.00	-17.19	QP	
8		0.5534	21.57	10.20	31.77	46.00	-14.23	AVG	
9		7.5732	28.98	10.20	39.18	60.00	-20.82	QP	
10		7.5732	23.35	10.20	33.55	50.00	-16.45	AVG	
11		14.1479	29.94	10.20	40.14	60.00	-19.86	QP	
12		14.1479	24.08	10.20	34.28	50.00	-15.72	AVG	

\*\*\*Note: 1) Pre-scan all modes and recorded the worst case results in this report.

2) Margin=Reading level + Correct - Limit

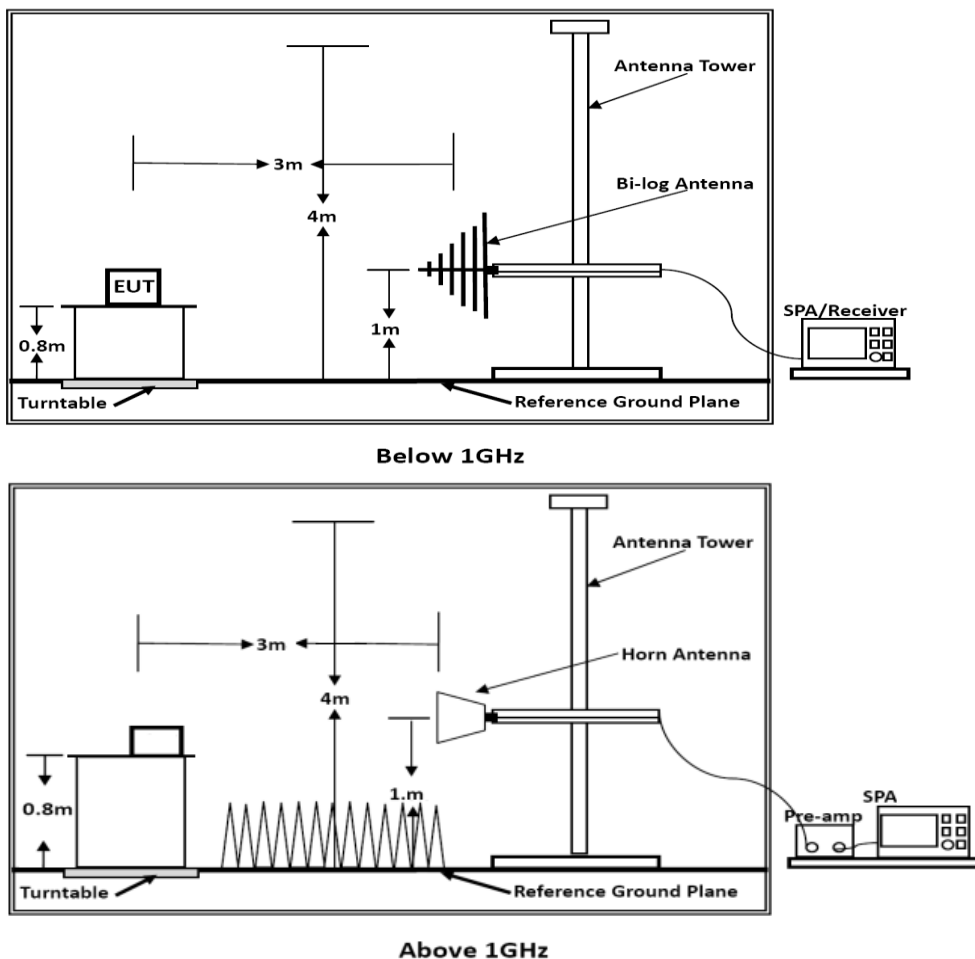
### 3.2. Radiated emission Measurement

#### 3.2.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2021-06-15	2024-06-15
2	EMI Test Receiver	R&S	ESCI3	101010	2021-06-08	2022-06-08
3	Spectrum Analyzer	Agilent	N9020A	MY49100699	2021-06-08	2022-06-08
4	Log-periodic Antenna	SCHWARZBECK	VULB9163	5094	2019-06-23	2022-06-23
5	Horn Antenna	ETS-LINDGREN	3115	00034771	2019-06-23	2022-06-23
6	EMI Test Software	EZ	EZ EMC	N/A	/	/
7	Positioning Controller	MF	BK8807-4A-2T	2016-0808-008	/	/

#### 3.2.2. Block Diagram of Test Setup





### 3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54
Remark: (1) Emission level (dB)μV = 20 log Emission level μV/m (2) The smaller limit shall apply at the cross point between two frequency bands. (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.			
Limits for Radiated Emission Above 1GHz			
Frequency (MHz)	Distance (Meters)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)
Above 1000	3	74	54
***Note: The lower limit applies at the transition frequency.			

### 3.2.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 3.2.5. Operating Condition of EUT

- 3.2.5.1. Setup the EUT as shown in Section 3.2.2.
- 3.2.5.2. Let the EUT work in test Lighting and measure it.

### 3.2.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the EMI test receiver is set at 120kHz, 300kHz.

The frequency range from 30MHz to 1000MHz is checked.

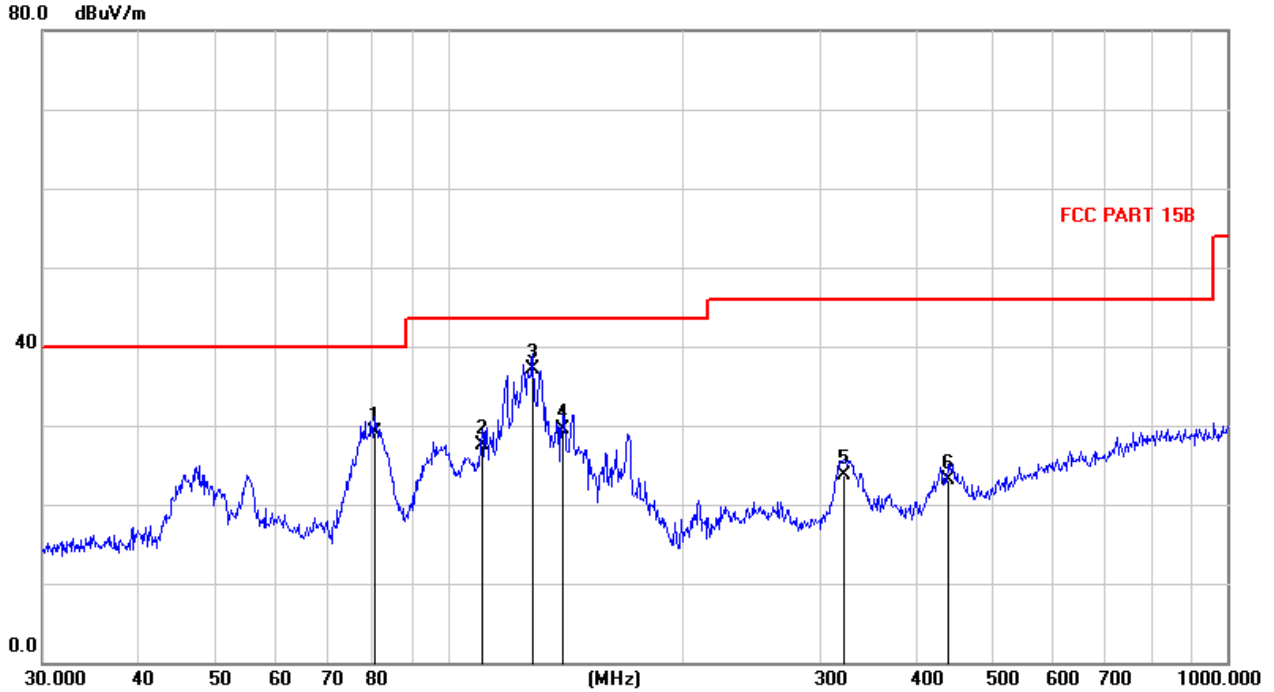
### 3.2.7. Radiated Emission Noise Measurement Result

**PASS.**

The scanning waveforms please refer to the next page.



<b>Test Model</b>	PDT-WIC-BLJ	<b>Test Mode</b>	Lighting
<b>Environmental Conditions</b>	24.2°C, 50% RH	<b>Detector Function</b>	Quasi-peak
<b>Pol</b>	Vertical	<b>Distance</b>	3m
<b>Test Engineer</b>	Monkey Li	<b>Test Voltage</b>	AC 120V/60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		80.2915	19.59	9.47	29.06	40.00	-10.94			QP
2		110.5687	16.57	10.84	27.41	43.50	-16.09			QP
3	*	128.2253	26.21	10.96	37.17	43.50	-6.33			QP
4		140.1577	17.83	11.58	29.41	43.50	-14.09			QP
5		323.1787	10.11	13.59	23.70	46.00	-22.30			QP
6		438.0790	6.80	16.39	23.19	46.00	-22.81			QP



<b>Test Model</b>	PDT-WIC-BLJ	<b>Test Mode</b>	Lighting
<b>Environmental Conditions</b>	24.2°C, 50% RH	<b>Detector Function</b>	Quasi-peak
<b>Pol</b>	Horizontal	<b>Distance</b>	3m
<b>Test Engineer</b>	Monkey Li	<b>Test Voltage</b>	AC 120V/60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		98.8326	14.17	11.30	25.47	43.50	-18.03	QP		
2		131.6423	28.68	9.19	37.87	43.50	-5.63	QP		
3	*	137.7216	30.34	9.04	39.38	43.50	-4.12	QP		
4		171.2424	19.13	10.47	29.60	43.50	-13.90	QP		
5		321.4833	12.74	14.34	27.08	46.00	-18.92	QP		
6		361.3969	11.88	14.98	26.86	46.00	-19.14	QP		

Note: Pre-Scan all mode, Thus record worse case mode result in this report.





#### **4. TEST SETUP PHOTOGRAPHS OF EUT**

Please refer to separated files for Test Setup Photos of the EUT.

#### **5. EXTERIOR PHOTOGRAPHS OF THE EUT**

Please refer to separated files for External Photos of the EUT.

#### **6. INTERIOR PHOTOGRAPHS OF THE EUT**

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF TEST REPORT-----