



FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC.

Sputnik Pendant 3CCT

Test Model: PDT-SPC-C3BG

Additional Model No.: Please Refer to Page 7

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

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : Room 101, 201, Building A and Room 301, Building C,
Juji Industrial Park, Yabianxueziwei, Shajing Street,
Bao'an District, Shenzhen, Guangdong, China

Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : March 21, 2022
Number of tested samples : 2
Serial number : 220307141A-1
Date of Test : March 21, 2022 ~ March 24, 2022
Date of Report : March 24, 2022





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

Report Reference No. : **LCS220307141AEA**

Date Of Issue : March 24, 2022

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

Address : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, 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, Lachine, 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. : **Sputnik Pendant 3CCT**

Trade Mark : Artika

Test Model : PDT-SPC-C3BG

Ratings : Input: AC 120V, 50/60Hz, 21W

Result : **Positive**

Compiled by:

Ray Yang/ Administrator

Supervised by:

Jin Wang/ Technique principal

Approved by:

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

**FCC SDOC-- TEST REPORT****Test Report No. : LCS220307141AEA**March 24, 2022

Date of issue

Test Model : PDT-SPC-C3BG

EUT..... : Sputnik Pendant 3CCT

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

Telephone..... : /

Fax..... : /

Manufacturer..... : ZHONGSHAN C5 LIGHTING CO. LTDAddress..... : 1# Henglong Road, Tongyi Industrial Area, Cao San,
Guzhen, Zhongshan, Guangdong, China.

Telephone..... : /

Fax..... : /

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

Telephone..... : /

Fax..... : /

Test Result according to the standards on page 6: **Positive**

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.



Shenzhen LCS Compliance Testing Laboratory Ltd.

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Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Revision History

Report Version	Issue Date	Revision Content	Revised By
000	March 24, 2022	Initial Issue	--





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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 1	Lighting	Record
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2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Sputnik Pendant 3CCT

Trade Mark : Artika

Test Model : PDT-SPC-C3BG

Additional Model No. : PDT-SPC-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, 50/60Hz, 21W

Highest internal frequency (Fx)	Highest measured frequency
$Fx \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} < Fx \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} < Fx \leq 1 \text{ GHz}$	5 GHz
$Fx > 1 \text{ GHz}$	$5 \times Fx$ up to a maximum of 6 GHz
NOTE 1 For FM and TV broadcast receivers, Fx is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies. Where Fx is unknown, the radiated emission measurements shall be performed up to 6 GHz.	





2.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
---	---	---	---	---

2.3 External I/O Cable

I/O Port Description	Quantity	Cable
---	---	---

2.4. 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.
Test Firm Registration Number: 254912.





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 (U _{lab})	Expanded Uncertainty (U _{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
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

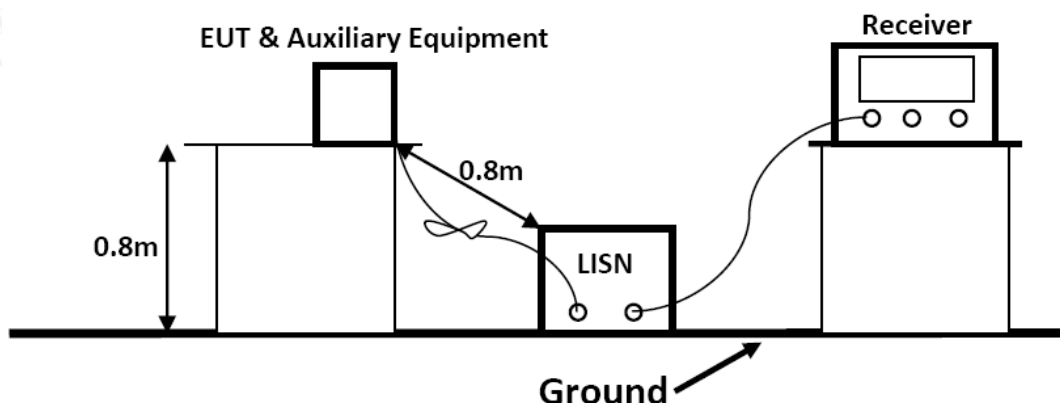
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

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

Item	Test 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 (dB μ V)	
			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 Mode 1 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

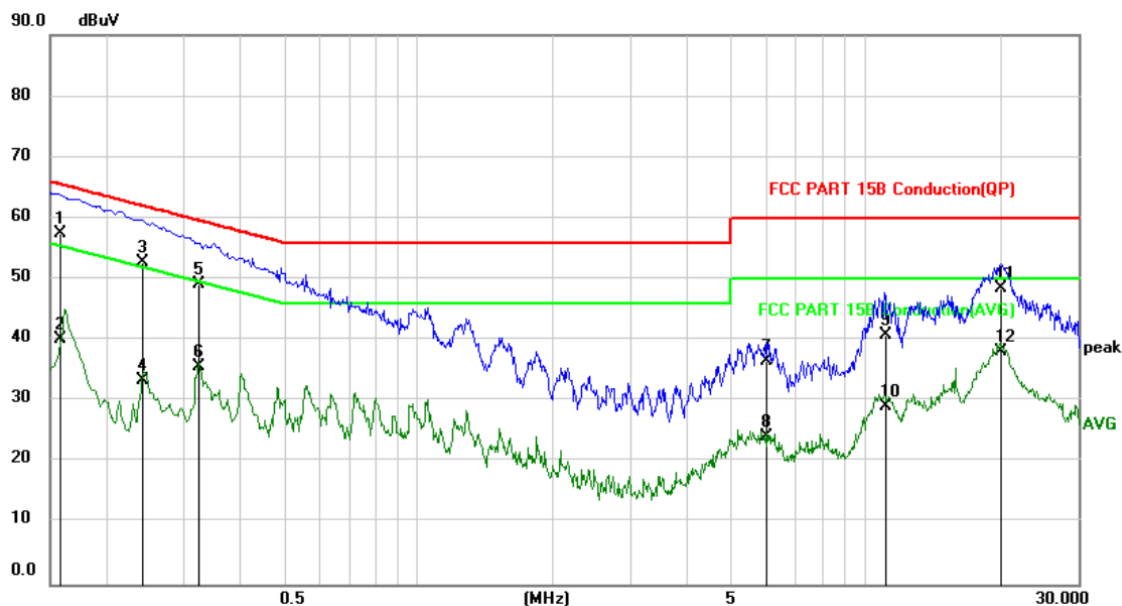
PASS.

The test result please refer to the next page.





Test Model	PDT-SPC-C3BG	Test Mode	Mode 1
Environmental Conditions	23.9°C, 53.0% RH	Test Engineer	Sam Chen
Pol	Line	Test Voltage	AC 120V/60Hz

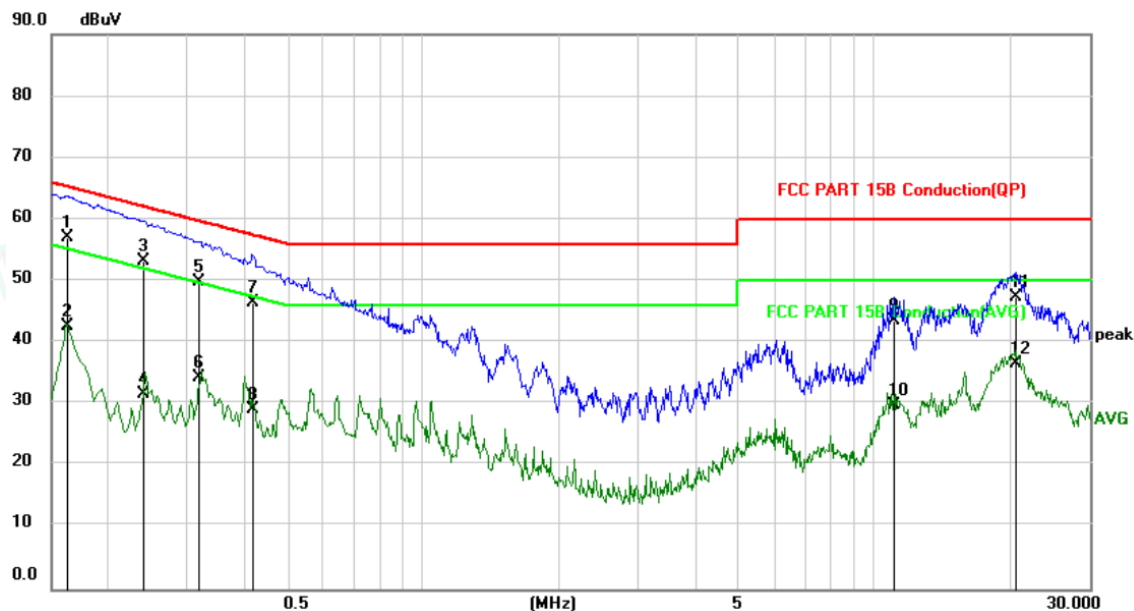


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1583	47.17	10.24	57.41	65.55	-8.14	QP	
2		0.1583	29.94	10.24	40.18	55.55	-15.37	AVG	
3		0.2420	42.46	10.21	52.67	62.03	-9.36	QP	
4		0.2420	23.10	10.21	33.31	52.03	-18.72	AVG	
5		0.3233	39.07	10.20	49.27	59.62	-10.35	QP	
6		0.3233	25.42	10.20	35.62	49.62	-14.00	AVG	
7		6.0341	26.29	10.20	36.49	60.00	-23.51	QP	
8		6.0341	13.89	10.20	24.09	50.00	-25.91	AVG	
9		11.1057	30.70	10.20	40.90	60.00	-19.10	QP	
10		11.1057	19.00	10.20	29.20	50.00	-20.80	AVG	
11		20.1147	38.32	10.20	48.52	60.00	-11.48	QP	
12		20.1147	27.97	10.20	38.17	50.00	-11.83	AVG	





Test Model	PDT-SPC-C3BG	Test Mode	Mode 1
Environmental Conditions	23.9°C, 53.0% RH	Test Engineer	Sam Chen
Pol	Neutral	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1624	46.87	10.23	57.10	65.34	-8.24	QP	
2		0.1624	32.47	10.23	42.70	55.34	-12.64	AVG	
3		0.2380	43.03	10.22	53.25	62.17	-8.92	QP	
4		0.2380	21.29	10.22	31.51	52.17	-20.66	AVG	
5		0.3195	39.55	10.20	49.75	59.72	-9.97	QP	
6		0.3195	24.18	10.20	34.38	49.72	-15.34	AVG	
7		0.4205	36.27	10.20	46.47	57.44	-10.97	QP	
8		0.4205	18.95	10.20	29.15	47.44	-18.29	AVG	
9		11.0698	33.45	10.20	43.65	60.00	-16.35	QP	
10		11.0698	19.69	10.20	29.89	50.00	-20.11	AVG	
11		20.5425	37.10	10.20	47.30	60.00	-12.70	QP	
12		20.5425	26.38	10.20	36.58	50.00	-13.42	AVG	

Note: Pre-Scan all mode, Thus record worse case mode result in this report.
Result = Reading + Correct, Margin = Result – Limit.



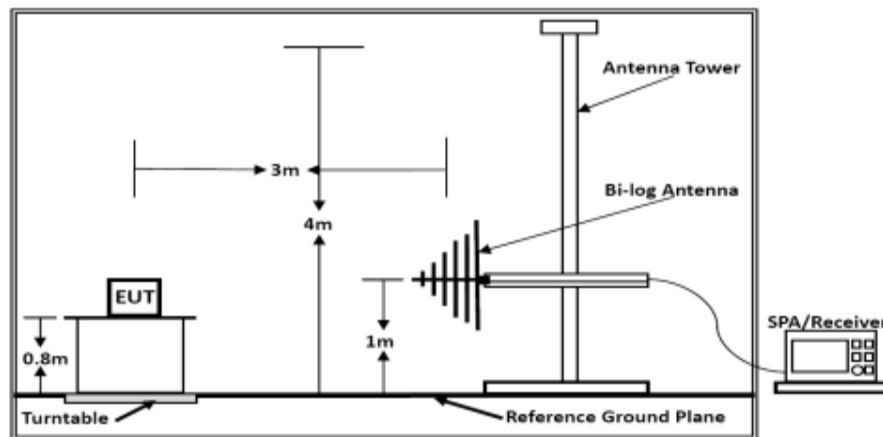
3.2. Radiated emission Measurement

3.2.1. Test Equipment

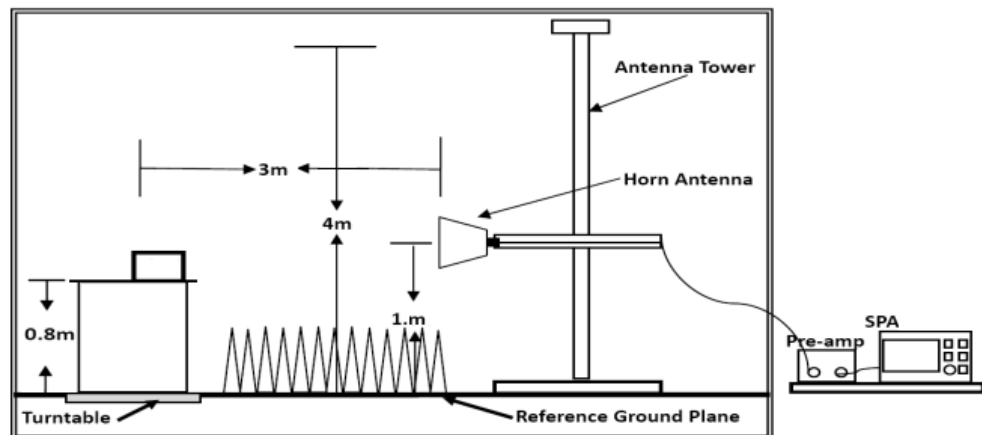
The following test equipments are used during the radiated emission measurement:

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



Below 1GHz



Above 1GHz





3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 $(\text{dB})\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
(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 ($\text{dB}\mu\text{V/m}$)	Average Limit ($\text{dB}\mu\text{V/m}$)
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 Mode 1 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.

3.2.7. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver





Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

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

3.2.8. Radiated Emission Noise Measurement Result

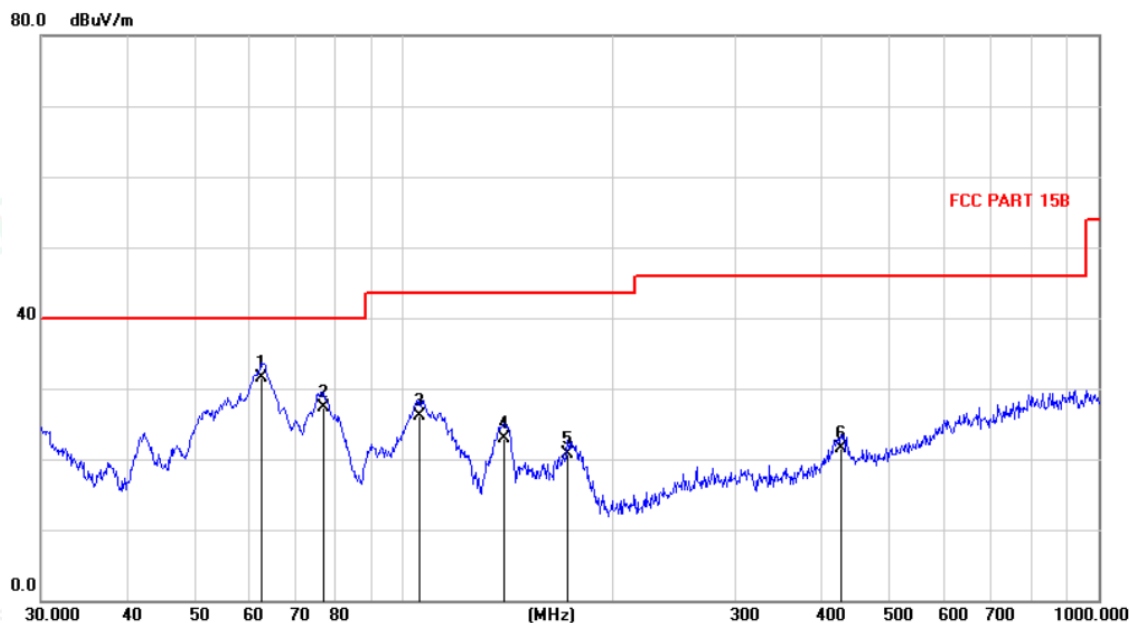
PASS.

The scanning waveforms please refer to the next page.





Test Model	PDT-SPC-C3BG	Test Mode	Mode 1
Environmental Conditions	23.9°C, 51.0% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Sam Chen	Test Voltage	AC 120V/60Hz

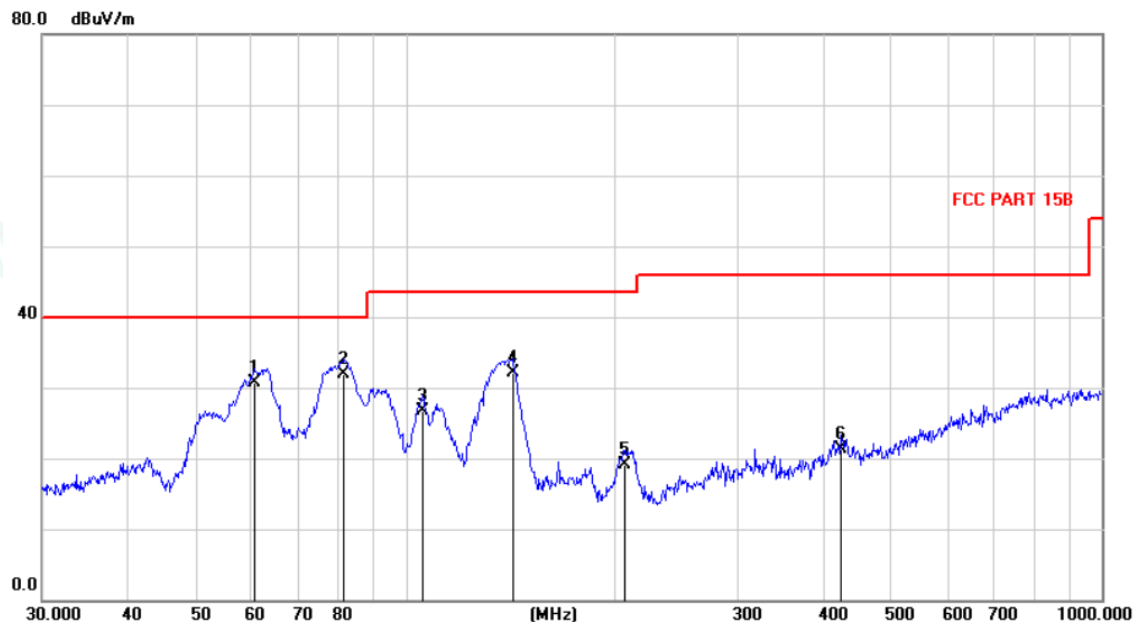


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	62.4314	19.05	12.55	31.60	40.00	-8.40	QP
2		76.6463	17.36	10.04	27.40	40.00	-12.60	QP
3		105.5952	15.44	10.76	26.20	43.50	-17.30	QP
4		139.4224	11.46	11.54	23.00	43.50	-20.50	QP
5		172.5232	9.39	11.31	20.70	43.50	-22.80	QP
6		425.7739	5.42	16.08	21.50	46.00	-24.50	QP





Test Model	PDT-SPC-C3BG	Test Mode	Mode 1
Environmental Conditions	23.9°C, 51.0% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Sam Chen	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1		60.5980	18.58	12.12	30.70	40.00	-9.30	QP
2	*	81.7475	22.45	9.55	32.00	40.00	-8.00	QP
3		105.6415	15.77	11.03	26.80	43.50	-16.70	QP
4		142.6367	23.06	9.04	32.10	43.50	-11.40	QP
5		206.5786	7.24	11.86	19.10	43.50	-24.40	QP
6		423.5403	5.26	16.14	21.40	46.00	-24.60	QP

Note: 1. Pre-Scan all mode, Thus record worse case mode result in this report.

2. For above 1000MHz, Because the emission it too low to be reported.

3. Emission level (dBuV/m) = 20 log Emission level (uV/m).

4. Level = Reading + Factor, Margin = Level-Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor.





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-----

