



FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC

Avalon 4L pendant

Test Model: PDT4-AVC-HD2BL

Additional Model No.: PDT4-AVC-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.
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Date of receipt of test sample : July 11, 2022
Number of tested samples : 2
Sample No. : A071122118
Serial number : Prototype
Date of Test : July 11, 2022 ~ July 20, 2022
Date of Report : July 21, 2022





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

Report Reference No. : LCSA071122118E

Date Of Issue : July 21, 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 : Avalon 4L pendant

Test Model : PDT4-AVC-HD2BL

Trade Mark : Artika

Ratings : Input: AC 120V, 60Hz, Max 22W

Result : Positive

Compiled by:

Kevin Huang

Kevin Huang/ Administrator

Supervised by:

Cary Luo

Cary Luo/ Technique principal

Approved by:

Gavin Liang

Gavin Liang/ Manager





FCC -- TEST REPORT

Test Report No. : LCSA071122118E	<u>July 21, 2022</u> Date of issue
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Test Model : PDT4-AVC-HD2BL EUT..... : Avalon 4L pendant
Applicant..... : ARTIKA FOR LIVING INC Address..... : 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Telephone..... : / Fax..... : /
Manufacturer..... : ZHONGSHAN C5 LIGHTING CO., LTD Address..... : 1# Henglong Road, Tongyi Industrial Area, Cao San, Guzhen, Zhongshan, Guangdong, China. Telephone..... : / Fax..... : /
Factory..... : ZHONGSHAN C5 LIGHTING CO., LTD Address..... : 1# Henglong Road, Tongyi Industrial Area, Cao San, Guzhen, Zhongshan, Guangdong, China. 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.





Revision History

Report Version	Issue Date	Revision Content	Revised By
000	July 21, 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:		
Mode1	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 : Avalon 4L pendant
- Trade Mark : Artika
- Test Model : PDT4-AVC-HD2BL
- Additional Model : PDT4-AVC-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, Max 22W
- Highest internal frequency (Fx) : $F_x \leq 108 \text{ MHz}$

Highest internal frequency (Fx)	Highest measured frequency
$F_x \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} < F_x \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} < F_x \leq 1 \text{ GHz}$	5 GHz
$F_x > 1 \text{ GHz}$	$5 \times F_x$ up to a maximum of 6 GHz

NOTE 1 For FM and TV broadcast receivers, F_x is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.
Where F_x is unknown, the radiated emission measurements shall be performed up to 6 GHz.

2.2. Support Equipment List

Name	Manufacturers	M/N	S/N
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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.
 FCC 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)	± 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

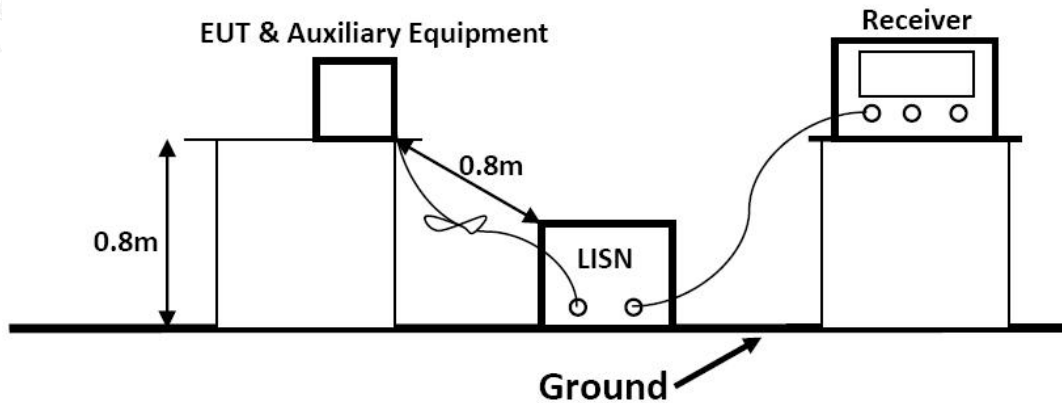
3.1.1. Test Equipment

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	2022-05-05	2023-05-04
2	10dB Attenuator	SCHWARZBECK	VTSD9561-F	9561-F159	2022-05-05	2023-05-04
3	Artificial Mains Network	SCHWARZBECK	NSLK8127	8127716	2022-05-05	2023-05-04
4	EMI Test Software	EZ	EZ_EMG	N/A	/	/
5	Asymmetric Artificial Network	SCHWARZBECK	NTFM 8158	NTFM8158 #120	2022-05-05	2023-05-04
6	Voltage Probe	SCHWARZBECK	KT 9420	9420401	2022-05-05	2023-05-04
7	No. 2 shielded Room	CHENGYU	843	/	2020-06-16	2023-06-16

Note: The test data was completed by Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

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 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

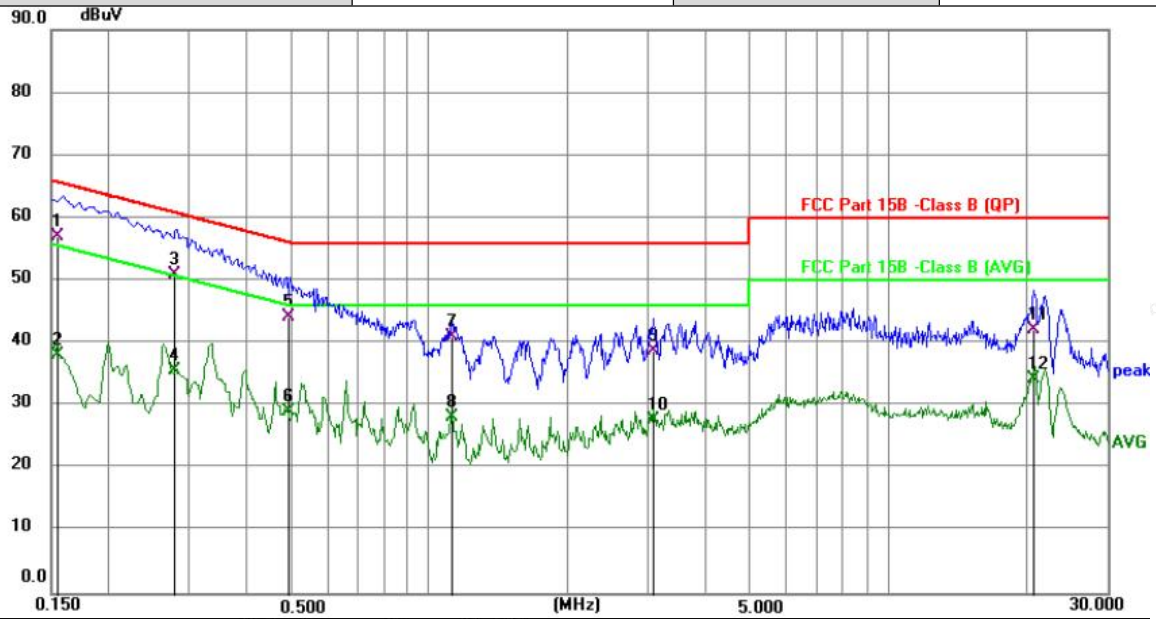
PASS.

The test result please refer to the next page.





Test Model	PDT4-AVC-HD2BL	Test Mode	Mode1
Environmental Conditions	24.0°C, 54% RH	Test Engineer	Monkey Li
Pol	Line	Test Voltage	AC 120V/60Hz

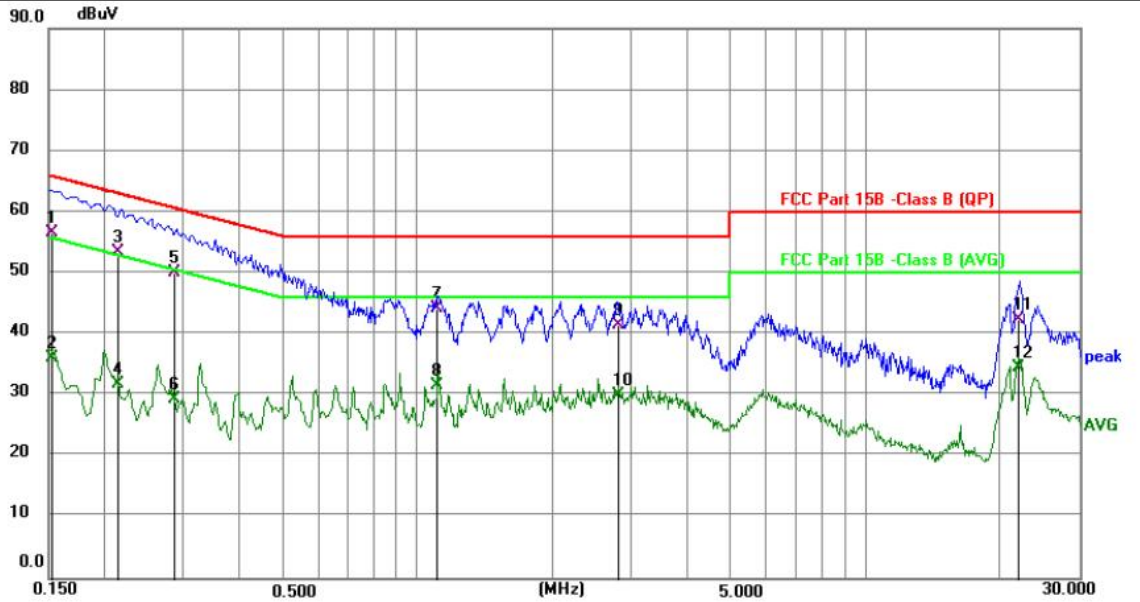


No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1548	46.89	10.24	57.13	65.74	-8.61	QP	
2		0.1548	27.97	10.24	38.21	55.74	-17.53	AVG	
3		0.2788	40.74	10.21	50.95	60.85	-9.90	QP	
4		0.2788	25.35	10.21	35.56	50.85	-15.29	AVG	
5		0.4921	33.98	10.20	44.18	56.13	-11.95	QP	
6		0.4921	18.83	10.20	29.03	46.13	-17.10	AVG	
7		1.1215	30.78	10.20	40.98	56.00	-15.02	QP	
8		1.1215	18.04	10.20	28.24	46.00	-17.76	AVG	
9		3.0854	28.54	10.20	38.74	56.00	-17.26	QP	
10		3.0854	17.68	10.20	27.88	46.00	-18.12	AVG	
11		20.7565	31.91	10.21	42.12	60.00	-17.88	QP	
12		20.7565	24.19	10.21	34.40	50.00	-15.60	AVG	





Test Model	PDT4-AVC-HD2BL	Test Mode	Mode1
Environmental Conditions	24.0°C, 54% RH	Test Engineer	Monkey Li
Pol	Neutral	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1526	46.35	10.24	56.59	65.86	-9.27	QP	
2		0.1526	25.91	10.24	36.15	55.86	-19.71	AVG	
3		0.2131	43.15	10.22	53.37	63.08	-9.71	QP	
4		0.2131	21.53	10.22	31.75	53.08	-21.33	AVG	
5		0.2850	39.95	10.20	50.15	60.67	-10.52	QP	
6		0.2850	19.19	10.20	29.39	50.67	-21.28	AVG	
7		1.1091	34.08	10.20	44.28	56.00	-11.72	QP	
8		1.1091	21.39	10.20	31.59	46.00	-14.41	AVG	
9		2.8043	31.25	10.20	41.45	56.00	-14.55	QP	
10		2.8043	19.76	10.20	29.96	46.00	-16.04	AVG	
11		22.0983	32.26	10.21	42.47	60.00	-17.53	QP	
12		22.0983	24.22	10.21	34.43	50.00	-15.57	AVG	

Note: Margin= Reading Level+Correct Factor – Limit
 Correct Factor=Lisn Factor+Cable Factor



3.2. Radiated emission Measurement

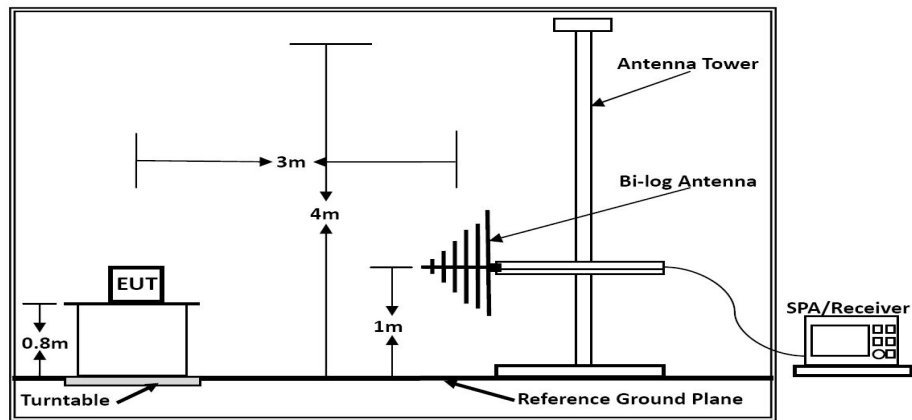
3.2.1. Test Equipment

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

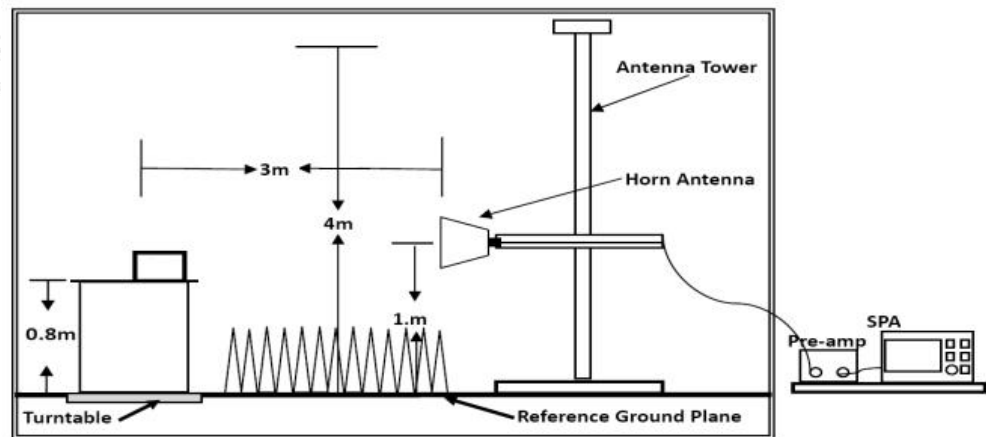
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2021-06-15	2024-06-15
2	EMI Test Receiver	R&S	ESCI3	101010	2022-05-05	2023-05-04
3	Spectrum Analyzer	Agilent	N9020A	MY49100699	2022-05-05	2023-05-04
4	Log-periodic Antenna	SCHWARZBECK	VULB9163	5094	2022-05-20	2025-05-19
5	Horn Antenna	ETS-LINDGREN	3115	00034771	2022-05-20	2025-05-19
6	EMI Test Software	EZ	EZ EMC	N/A	/	/
7	Controller	KGS	M4U450	/	/	/

Note: The test data was completed by Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

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	
		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.





Test Model	PDT4-AVC-HD2BL	Test Mode	Mode1
Environmental Conditions	22.7°C, 54% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Monkey Li	Test Voltage	AC 120V/60Hz

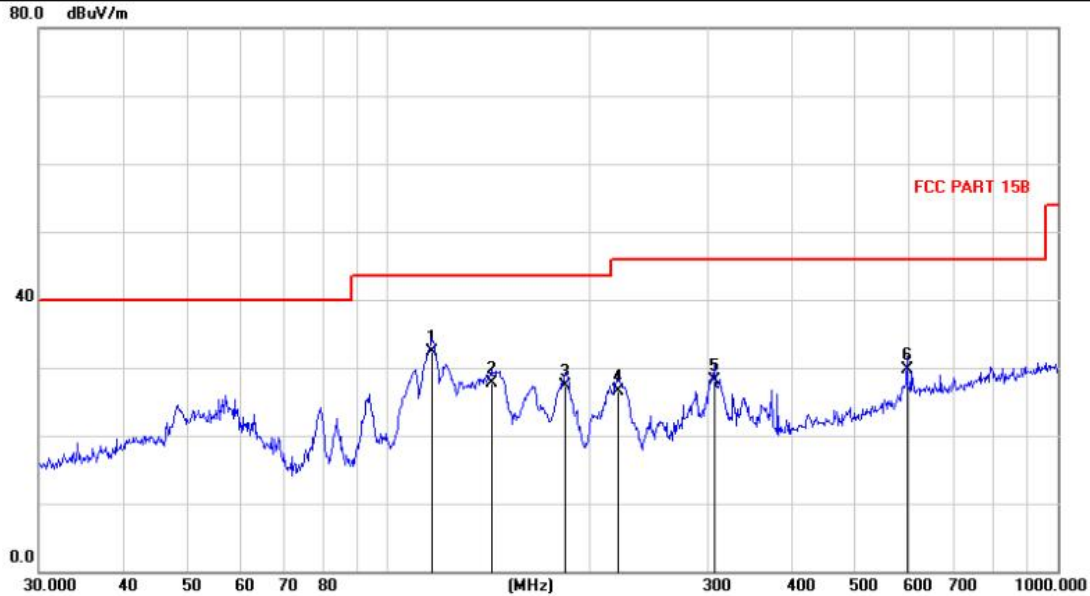


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		30.1979	13.82	10.43	24.25	40.00	-15.75	QP			
2	*	48.9072	22.79	12.45	35.24	40.00	-4.76	QP			
3		99.7464	21.77	11.51	33.28	43.50	-10.22	QP			
4		111.3468	19.56	12.06	31.62	43.50	-11.88	QP			
5		144.7783	18.44	9.35	27.79	43.50	-15.71	QP			
6		368.7576	8.37	16.04	24.41	46.00	-21.59	QP			





Test Model	PDT4-AVC-HD2BL	Test Mode	Mode1
Environmental Conditions	22.7°C, 54% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Monkey Li	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	Antenna Height cm	Table Degree	Comment
1	*	116.4380	20.97	11.33	32.30	43.50	-11.20	QP			
2		142.5742	18.80	8.91	27.71	43.50	-15.79	QP			
3		183.4416	17.10	10.26	27.36	43.50	-16.14	QP			
4		220.4238	14.85	11.70	26.55	46.00	-19.45	QP			
5		307.4268	13.90	14.30	28.20	46.00	-17.80	QP			
6		595.9160	8.95	20.85	29.80	46.00	-16.20	QP			

Note: Margin= Reading Level+Correct Factor – Limit
 Correct Factor=Antenna Factor+Cable Factor – Pre-Amplifier 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-----

