



FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC

Outdoor Willow Black 3CCT

Test Model: OUT-WIC

Additional Model No.: OUT-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, CanadaH8T 2V5

Lachine Canada

Prepared by Shenzhen LCS Compliance Testing Laboratory Ltd. 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Address

Yabianxueziwei, Shajing Street, Baoan District,

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Date of receipt of test sample May 23, 2022

Number of tested samples

Sample No. A050922289 Serial number Prototype

Date of Test May 23, 2022 ~ May 24, 2022

Date of Report May 24, 2022



Shenzhen LCS Compliance Testing Laboratory Ltd.

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

Report No.: LCSA050922289E

Report Reference No.: LCSA050922289E

Date Of Issue : May 24, 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, CanadaH8T 2V5 Lachine

Canada

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.....:: Outdoor Willow Black 3CCT

Test Model: OUT-WIC

Trade Mark: : ARTIKA

Ratings : Input: AC 120V, 60Hz, 14W

Result: : Positive

Compiled by:

Supervised by:

Approved by:

100,000

Vera Deng/ Administrator

Jin Wang/ Technique principal

Gavin Liang/ Manager





FCC -- TEST REPORT

Report No.: LCSA050922289E

May 24, 2022 Test Report No. : LCSA050922289E Date of issue

Test Model: : OUT-WIC EUT.....:: Outdoor Willow Black 3CCT Applicant.....:: : ARTIKA FOR LIVING INC Address......: : 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Lachine Canada Telephone.....:: : / Fax.....:: : / Manufacturer.....: : Zhongshan Rixiao Optoelectronic Technology Co., Address.....: No. 4-1, South Huatai East Road, Caosan Pioneer Park, Guzhen Town, Zhongshan City, Guangdong Province Telephone.....:: : / Fax.....:: : / Factory.....: Zhongshan Rixiao Optoelectronic Technology Co., Ltd Address.....: No. 4-1, South Huatai East Road, Caosan Pioneer Park, Guzhen Town, Zhongshan City, Guangdong Province 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.







FCC ID: 2AYFP-OUT-WIC Report No.: LCSA050922289E

Revision History

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







TABLE OF CONTENTS

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



















1. SUMMARY OF STANDARDS AND RESULTS

Report No.: LCSA050922289E

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			

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



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2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Outdoor Willow Black 3CCT

Trade Mark : ARTIKA

Test Model : OUT-WIC

Additional Model : OUT-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

Report No.: LCSA050922289E

Power Supply : Input: AC 120V, 60Hz, 14W

Highest internal

frequency (Fx)

: Fx ≤ 108 MHz

Highest internal frequency (Fx)	Highest measured frequency
Fx ≤ 108 MHz	1 GHz
108 MHz < Fx ≤ 500 MHz	2 GHz
500 MHz < Fx ≤ 1 GHz	5 GHz
Fx > 1 GHz	5 x 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

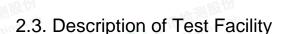
Name	Manufacturers	M/N	S/N



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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

Report No.: LCSA050922289E

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 (Ucispr)
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 (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%.



五 立讯检测股份 LCS Testing Lab LCS Testing

3. TEST RESULTS

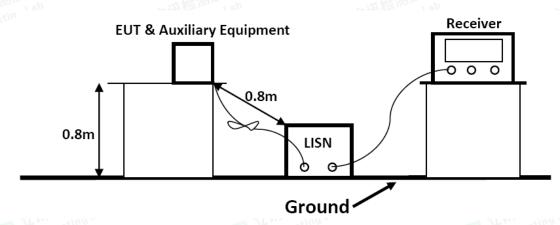
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

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	2021-06-0	2022-06-08
2	10dB Attenuator	SCHWARZBEC K	VTSD9561-F	9561-F159	2021-06-0	2022-06-08
3	Artificial Mains Network	SCHWARZBEC K	NSLK8127	8127716	2021-06-0	2022-06-08
4	EMI Test Software	EZ	EZ_EMC	N/A	/	/
5	Asymmetric Artificial Network	SCHWARZBEC K	NTFM 8158	NTFM8158#1 20	2021-06-0	2022-06-08
6	Voltage Probe	SCHWARZBEC K	KT 9420	9420401	2021-06-0	2022-06-08
7	No. 2 shielded Room	CHENGYU	843	/	2020-06-1	2023-06-16

3.1.2.Block Diagram of Test Setup



3.1.3.Test Standard

Power Line Conducted Emission Limits (Class B)

Frequency			Limit (dBμV)	
(MHz)		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.



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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.

Report No.: LCSA050922289E

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	OUT-WIC	Test Mode	Lighting
Environmental Conditions	al Conditions 24.3°C, 51% RH		Monkey Li
Pol	Line	Test Voltage	AC 120V/60Hz
90.0 dBuV 80 70 60 50 40	Correct Measure-Factor ment dB dBuV 5 10.23 50.28 6 7 10.23 27.40 5	FCC Part 158 -Cl.	ass B (QP) ass B (AVG) AVG 30.000
4 0.2462 11.7 5 0.3676 27.1		51.88 -29.91 AVG 58.55 -21.17 QP	
6 0.3676 5.5		48.55 -32.78 AVG	<u> </u>
	0 40.00 04.40	56.00 -31.87 QP	-
7 0.6710 13.9 8 0.6710 -1.9		16.00 -37.70 AVG	

10

11

12

3.8554

13.5956

13.5956

-5.52

-0.94

-5.47

10.20

10.20

10.20

4.68

9.26

4.73





46.00 -41.32

60.00 -50.74

50.00 -45.27

AVG

QP

AVG



Report No.: LCSA050922289E





Report No.: LCSA050922289E

Test Model	OUT-WIC	Test Mode	Lighting
Environmental Conditions	24.3℃, 51% RH	Test Engineer	Monkey Li
Pol	Neutral	Test Voltage	AC 120V/60Hz
Pol 90.0 dBuV 80 70 60 50 0.500 Read No. Mk. Freq. Leve MHz 1 * 0.1521 40.4 2 0.1521 17.5 3 0.2379 34.3 4 0.2379 11.8 5 0.3746 26.2	Neutral Neutral Neutr	FCC Part 158 -Clas FCC Part 158	AC 120V/60Hz ss B (QP) ss B (AVG) AVG 30.000
6 0.3746 5.0 7 0.7393 10.5		18.40 -33.20 AVG 56.00 -35.26 QP	
8 0.7393 -2.7		6.00 -38.52 AVG	<u> </u>
9 1.8543 -1.7	77 10.20 8.43 5	66.00 -47.57 QP	43
10 1.8543 -4.5 11 7.9013 -0.2		6.00 -40.35 AVG 60.00 -50.09 QP	Lap
12 7.9013 -4.8	39 10.20 5.31 5	50.00 -44.69 AVG	1

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

2) Margin=Reading level + Correct - Limit



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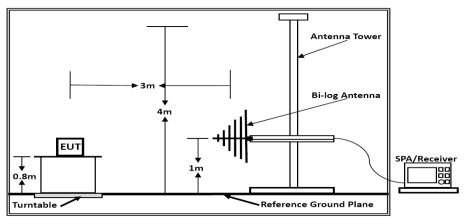
3.2. Radiated emission Measurement

3.2.1. Test Equipment

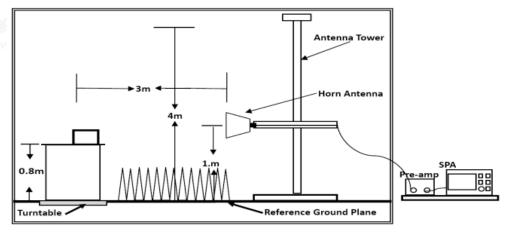
The following test equipments are used during the radiated emission measurement:

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	/	/
8	Broadband Preamplifier	/	BP-01M18G	P190501	2021-06-21	2022-06-20

3.2.2. Block Diagram of Test Setup



Below 1GHz



Above 1GHz



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3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT					
MHz	Meters	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) μ V = 20 log Emission level μ 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 Distance Peak Limit Average Limit										
(MHz)	(Meters)	(dBµV/m)	(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.



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Report No.: LCSA050922289E

Test Model							OUT-WIC			Test Mode					Lighting						
Environmental Conditions					2	23.1℃, 52% RH				Detector Function					Quasi-peak						
Pol						\	/ertic	cal		Distance					3m			3m			
Test Engineer				N	/lonk	key Li		Test Voltage					AC 120V/60H								
8	0.0 dBu\	//m																			
	40 ************************************	age to a stay of the field	Mariots	sum,	*Cotton Cotton	Maria	ANT TOWN	n, mg kindight ng photo a dining ni ka	3 X Andrew Market	ingthen bur with madden	Han Markey Marie Land	(Ante la junto a 2	in the second			helyword	<u></u>				
	30.000	40	50	60	70	80		(1	MHz)		300	400	500	0 600	700)	1000.0	000			
THY.	No. Mk	. Fr	eq.		ading .evel		rrect actor	Measure ment	- Limit	Margin		Ante Hei		Tab Degr				洪			
Ce ,-		MI	Ηz	d	BuV	d	B/m	dBuV/m	dBuV/m	dB	Detector	cn	n	degre	ee (Comm	ent	Ξ,			
-	1	55.6	337	4	.14	12	2.61	16.75	40.00	-23.25	QP							_			
-	2	100.1	847	4	.69	10	.71	15.40	43.50	-28.10	QP							_			
_	3	159.9	947	5	.96	11	.13	17.09	43.50	-26.41	QP							_			
_																		_			

262.5501

458.9132

626.1749

4

5

6

4.13

2.82

3.85

11.63

16.78

20.40





-30.24

-26.40

-21.75

46.00

46.00

46.00

QP

QP

QP





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

15.76

19.60

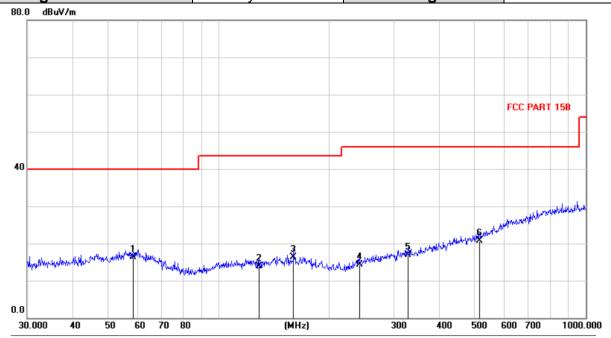
24.25



Page 16 of 17 FCC ID: 2AYFP-OUT-WIC

Report No.: LCSA050922289E

-2 112	-n. His	- 2 1/2	
Test Model	OUT-WIC	Test Mode	Lighting
Environmental Conditions	23.1℃, 52% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Monkey Li	Test Voltage	AC 120V/60Hz



1	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
	1	*	58.4843	3.74	12.55	16.29	40.00	-23.71	QP			
	2		128.6193	4.56	9.40	13.96	43.50	-29.54	QP			
	3		159.9947	6.41	9.88	16.29	43.50	-27.21	QP			
	4		242.3127	1.67	12.57	14.24	46.00	-31.76	QP			
	5		328.0310	2.49	14.47	16.96	46.00	-29.04	QP			
	6		515.4374	2.67	18.09	20.76	46.00	-25.24	QP			

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

2) Margin=Reading level + Correct - Limit



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OUT-WIC Report No.: LCSA050922289E

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-----



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