FCC Part 15, Subpart B, Class B

TEST REPORT

ARTIKA FOR LIVING INC.

Luminaire

Test Model: 15FM-WO

Additional Model No.: 15FM-WO-XXXXXX("X" 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	
 Prepared by Address Shenzhen LCS Compliance Testing Laboratory Ltd. 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shaji Street, Bao'an District, Shenzhen, Guangdong, China 	ing
Tel : (+86)755-82591330	
Fax : (+86)755-82591332	
Web : www.LCS-cert.com	
Mail : webmaster@LCS-cert.com	
Date of receipt of test : March 22, 2021 sample	
Number of tested samples : 1	
Serial number : Prototype	
Date of Test : March 22, 2021 ~ March 29, 2021	
Date of Report : March 29, 2021	



This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 1 of 21 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID:2AYFP-15FM-WO Report No.: LCS210318081AE

FCC TEST REPORT FCC Part 15, Subpart B, Class B

	FUU	art 15, Subpart B, Class E	>	
Testing Laboratory Name : Shenzhen LCS Compliance Testing Laboratory Lt Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Sh Street, Bao'an District, Shenzhen, Guangdong, China Testing Location/ Procedure : Full application of Harmonised standards	port Reference No :	LCS210318081AE		
Address 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Sh Street, Bao'an District, Shenzhen, Guangdong, China Testing Location/ Procedure Full application of Harmonised standards Partial application of Harmonised standards Applicant's Name : ARTIKA FOR LIVING INC. Address : 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Test Specification : FCC 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 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes a as the SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes a as the SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. Is acknowl as copyright owner and source of the material. SHENZHEN LCS COMPLIANCE TEST LABORATORY LTD. takes no responsibility for and will not assume liability for dar resulting from the reader's interpretation of the reproduced material due to its placeme context. Test Item Description : Luminaire Test Model : 15FM-WO Trade Mark : Artika Ratings : AC 120V 50/60Hz 30W Result	Date Of Issue : March 29, 2021			
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, CanadaH8T 2V5 Test Specification : Standard : FCC 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 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes a as the SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. Is acknown LABORATORY LTD. takes no responsibility for and will not assume liability for dar resulting from the reader's interpretation of the reproduced material due to its placeme context. Test Item Description : Luminaire Test Model : AC 120V 50/60Hz 30W Result : AC 120V 50/60Hz 30W Result : Positive	sting Laboratory Name :	Shenzhen LCS Compliance Te	esting Laboratory Ltd.	
Partial application of Harmonised standards		Street, Bao'an District, Shenzhe	n, Guangdong, China	
Address : 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Test Specification : FCC 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 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes a as the SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes a as the SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. Is acknowl as copyright owner and source of the material. SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. is acknowl ABORATORY LTD. takes no responsibility for and will not assume liability for dar resulting from the reader's interpretation of the reproduced material due to its placeme context. Test Item Description. : Luminaire Test Model : AC 120V 50/60Hz 30W Result : Positive Compiled by: Supervised by: Approved by	sting Location/ Procedure	Partial application of Harmonise	d standards 🗆	
Test Specification Standard : FCC 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 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes a as the SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. Is acknowl as copyright owner and source of the material. SHENZHEN LCS COMPLIANCE TEST LABORATORY LTD. takes no responsibility for and will not assume liability for dar resulting from the reader's interpretation of the reproduced material due to its placeme context. Test Item Description. : Luminaire Test Model : 15FM-WO Trade Mark : Artika Ratings : AC 120V 50/60Hz 30W Result : Positive Compiled by: Supervised by: Approved by	plicant's Name :	ARTIKA FOR LIVING INC.		
Standard : FCC 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 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes a as the SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. is acknowl as copyright owner and source of the material. SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. is acknowl as copyright owner and source of the material. SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. takes no responsibility for and will not assume liability for dar resulting from the reader's interpretation of the reproduced material due to its placeme context. Test Item Description	dress :	1756 50th avenue, Lachine, Qc,	CanadaH8T 2V5	
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Master TRF	st Report Form No :	LCSEMC-1.0		
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Test Model : 15FM-WO Trade Mark : Artika Ratings : AC 120V 50/60Hz 30W Result : Positive Compiled by: Supervised by: Approved by:	s publication may be reproduc the SHENZHEN LCS COMI copyright owner and source of BORATORY LTD. takes no r ulting from the reader's interpr	ed in whole or in part for non-co PLIANCE TESTING LABORATC f the material. SHENZHEN LCS esponsibility for and will not as	ommercial purposes as long ORY LTD. is acknowledged S COMPLIANCE TESTING sume liability for damages	
Trade Mark : Artika Ratings : AC 120V 50/60Hz 30W Result : Positive Compiled by: Supervised by: Approved by	st Item Description :	Luminaire		
Ratings : AC 120V 50/60Hz 30W Result : Positive Compiled by: Supervised by: Approved by	st Model :	15FM-WO		
Result : Positive Compiled by: Supervised by: Approved by:				
Compiled by: Supervised by: Approved by	ings :	AC 120V 50/60Hz 30W		
	sult :	Positive		
Lh Li Jin Wang Grins Lim	Compiled by:	Supervised by:	Approved by:	
	Lh Li	Jan Wang	Grino Limoz	
Lh Li/ Administrators Jin Wang/ Technique principal Gavin Liang/ Man	Lh Li/ Administrators	Jin Wang/ Technique principal	Gavin Liang/ Manager	

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FCC -- TEST REPORT

Test Report No. : LCS210318081AE

March 29, 2021

Date of issue

Test Model	: 15FM-WO
EUT	: Luminaire
Applicant	: ARTIKA FOR LIVING INC.
Address	: 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5
Telephone	:/
Fax	:/
Manufacturer	: RISING-SUN LIGHTING Co., Ltd
Address	: "San Shi Liu Lang" Industrial Area, Shilong Village
	Group, Langxin Village, Danzao Town, Nanhai District, Foshan, Guangdong, 528216 China
Telephone	:/
Fax	:/
Factory	: RISING-SUN LIGHTING Co., Ltd
	: "San Shi Liu Lang" Industrial Area, Shilong Village
	Group, Langxin Village, Danzao Town, Nanhai District,
	Foshan, Guangdong, 528216 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

Revision	Issue Date	Revisions	Revised By
000	March 29, 2021	Initial Issue	Gavin Liang

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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				
Standard	Limits	Results		
FCC Part 15, Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS		
FCC Part 15, Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS		
	Standard FCC Part 15, Subpart B, Class B, ANSI C63.4 -2014 FCC Part 15, Subpart B, Class B, ANSI	StandardLimitsFCC Part 15, Subpart B, Class B, ANSI C63.4 -2014Class BFCC Part 15, Subpart B, Class B, ANSI Class B, ANSIClass B		

N/A is an abbreviation for Not Applicable.

Test mode:				
Mode 1	Lighting ON	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	: Luminaire
Trade Mark	: Artika
Test Model	: 15FM-WO
List Model No.	: 15FM-WO, 15FM-WO-XXXXXX("X" can be A to Z and/or 0 to 9 and/or blank (commercial code))
Model Declaration	: All models are identical to each other except for model name
Power Supply	: AC 120V 50/60Hz 30W

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 × 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 o	scillator and tuned frequencies.			
generated or used excluding the local oscillator and tuned frequencies. NOTE 2 Fx is defined in EN 55032 Section 3.1.19.				
Where Fx is unknown, the radiated emission meas	surements shall be performed up to 6 GHz			
	•			

2.2. 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.

2.3. 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.

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
Power Disturbance	Level accuracy (30MHz to 300MHz)	\pm 2.90dB	± 4.5 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	el accuracy + 3.60 dB	
Radiated Emission	Level accuracy (9kHz to 30MHz)	\pm 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	\pm 3.48 dB	\pm 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	\pm 3.90 dB	\pm 5.2 dB
Mains Harmonic	Voltage	± 0.510%	N/A
Voltage Fluctuations & Flicker	Voltage	± 0.510%	N/A
EMF		± 21.59%	N/A

2.4. Measurement Uncertainty

(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%.

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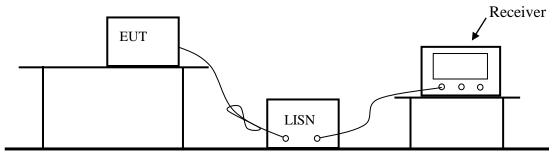
3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Software	EZ	EZ-EMC	/	N/A
2	EMI Test Receiver	R&S	ESPI	101840	2021-06-21
3	Artificial Mains	R&S	ENV216	101288	2021-06-21
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2021-06-21
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2021-10-20

3.2.Block Diagram of Test Setup



Ground

3.3.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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3.4.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.

3.5. Operating Condition of EUT

3.5.1.Setup the EUT as shown on Section 3.2

3.5.2. Turn on the power of all equipments.

3.5.3.Let the EUT work in measuring mode (1) and measure it.

3.6.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.

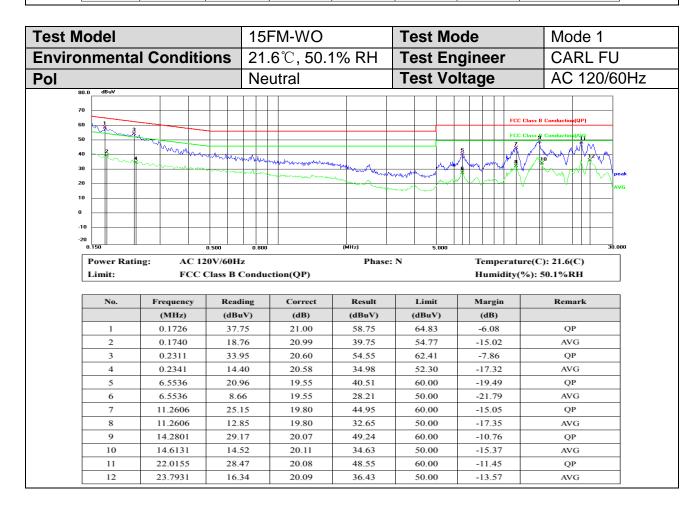
The frequency range from 150kHz to 30MHz is investigated

3.7.Test Results

PASS.

The test result please refer to the next page.

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID:2AYFP-15FM-WO Report No.: LCS210318081AE Test Model 15FM-WO **Test Mode** Mode 1 CARL FU **Environmental Conditions** 21.6℃, 50.1% RH **Test Engineer** AC 120/60Hz Pol Line **Test Voltage** 70 FCC Class B C 60 50 M 40 30 White 20 10 -10 20 (MHz 0.50 0 80 **Power Rating:** AC 120V/60Hz Phase: L1 Temperature(C): 21.6(C) Limit: FCC Class B Conduction(QP) Humidity(%): 50.1%RH No. Frequency Reading Correct Result Limit Margin Remark (MHz) (dBuV) (dBuV) (dBuV) (dB) (dB) 1 0.1816 37.21 20.94 58.15 64.41 -6.26 OP 2 0.1825 17.64 20.93 38.57 54.37 -15.80 AVG 6.4951 20.70 19.55 40.25 -19.75 3 60.00 OP 4 6.5941 7.85 19.55 27.40 50.00 -22.60 AVG 25.66 19.80 45.46 60.00 -14.54 5 11.2606 QP 29.83 6 11.5081 10.01 19.82 50.00 -20.17 AVG 7 14.0776 30.49 20.04 50.53 60.00 -9.47 QP 8 14.3026 18.14 20.08 38.22 50.00 -11.78 AVG 9 21.8581 30.83 20.08 50.91 60.00 -9.09 QP 10 22.1866 11.57 20.08 50.00 -18.35 31.65 AVG 11 23.4331 27.95 20.09 48.04 60.00 -11.96 OP 12 23.8156 16.35 20.09 36.44 50.00 -13.56 AVG



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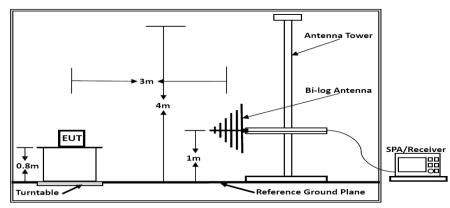
4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

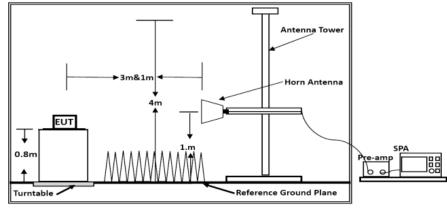
The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
nem		Manufacturer	model no.	Senai NU.	Lasi Gal.
1	EMI Test Software	EZ	EZ-EMC	/	N/A
2	3m Semi Anechoic	SIDT		03CH03-HY	2021-06-12
	Chamber	FRANKONIA	SAC-3M		
3	Positioning Controller	MF	MF-7082	/	2021-06-12
4	By-log Antenna	SCHWARZBE CK	VULB9163	9163-470	2021-07-25
5	Horn Antenna	SCHWARZBE	BBHA	04000 4005	2021-07-01
		СК	9120D	9120D-1925	
6	EMI Test Receiver	R&S	ESR 7	101181	2021-06-12
7	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2021-11-14
8	Broadband Preamplifier	/	BP-01M18G	P190501	2021-07-01
9	RF Cable-R03m	Jye Bao	RG142	CB021	2021-06-12
10	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2021-06-12

4.2. Block Diagram of Test Setup



Below 1GHz





4.3. 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)					
1000 ~ 3000	3	70	50					
3000 ~ 6000	3	74	54					
***Note: The lower limit applies at the transition frequency.								

4.4. 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.

4.5. Operating Condition of EUT

4.5.1.Setup the EUT as shown in Section 4.2. 4.5.2.Let the EUT work in test mode (1) and measure it.

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4.6. 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, 1000kHz.

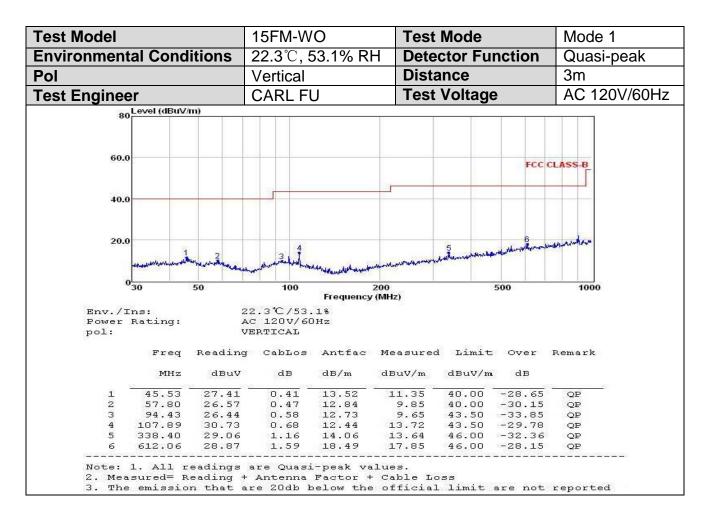
The frequency range from 30MHz to 1000MHz is checked.

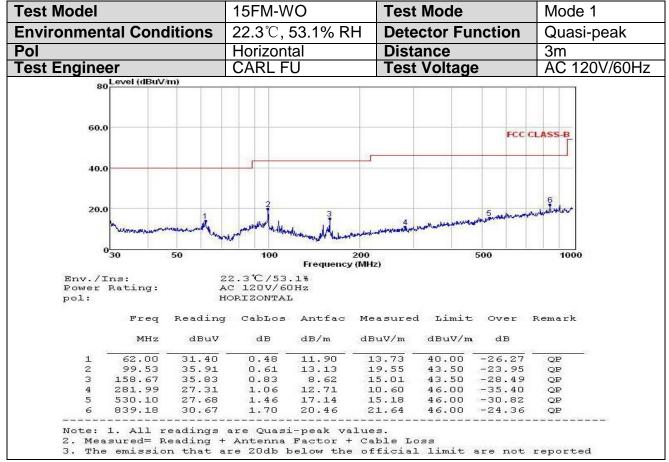
The bandwidth of the Spectrum analyzer is set at RBW/VBW=1MHz/3MHz.

The frequency range from 1GHz to the frequency which about 5th carrier harmonic or 6GHz is checked.

4.7. Radiated Emission Noise Measurement Result **PASS.**

The scanning waveforms please refer to the next page.





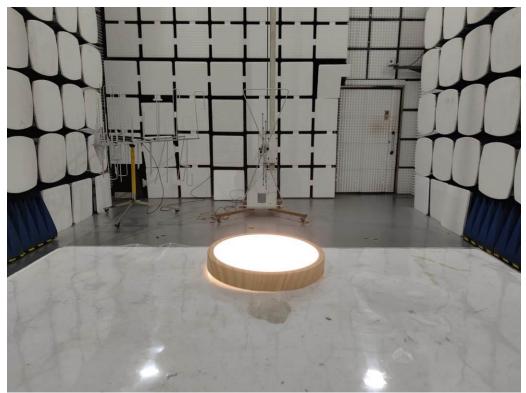
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5. PHOTOGRAPH

5.1.Photo of Power Line Conducted Measurement

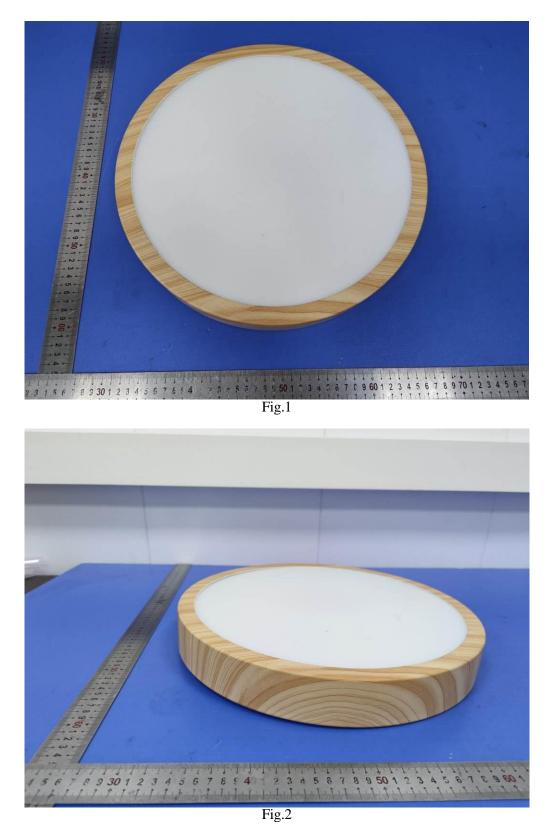


5.2. Photo of Radiated Measurement



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6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT



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 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.
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 Report No.: LCS210318081AE

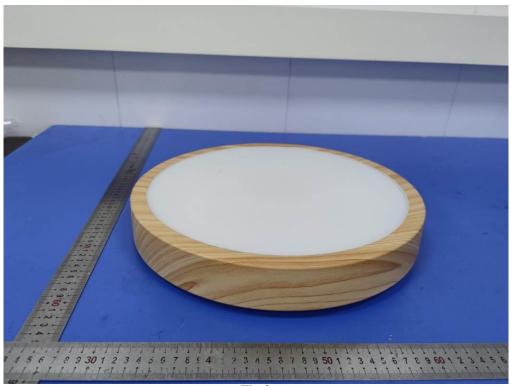


Fig.3

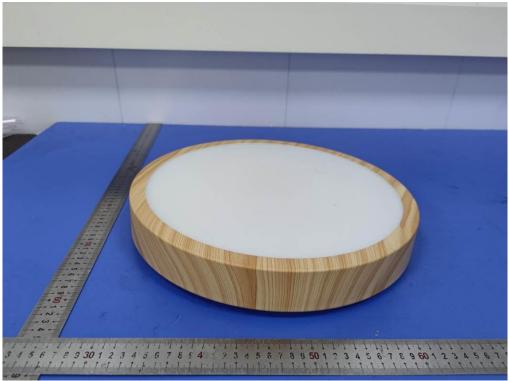
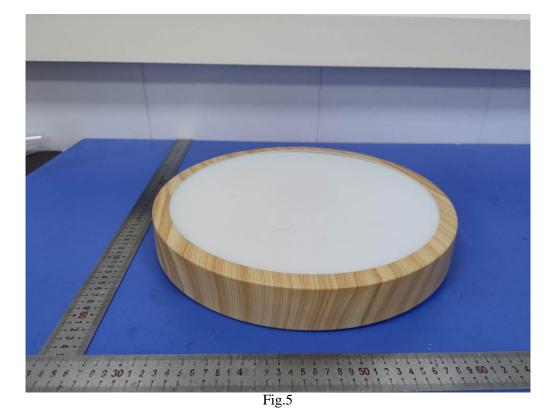


Fig.4

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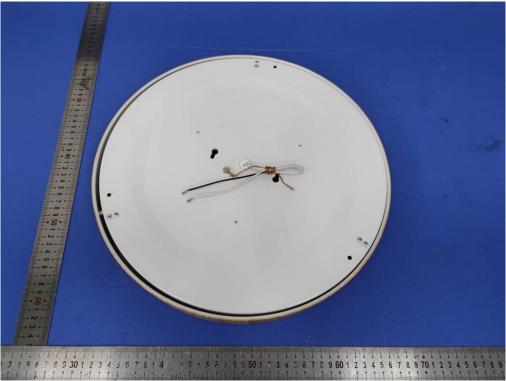
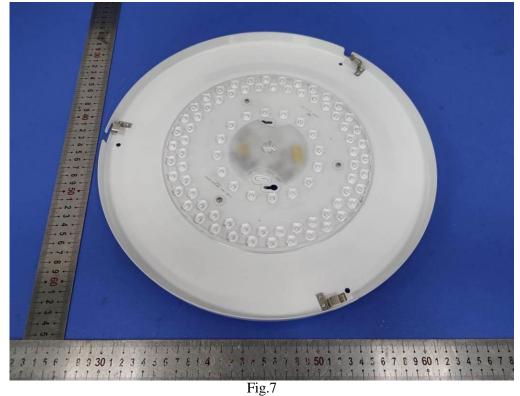


Fig.6

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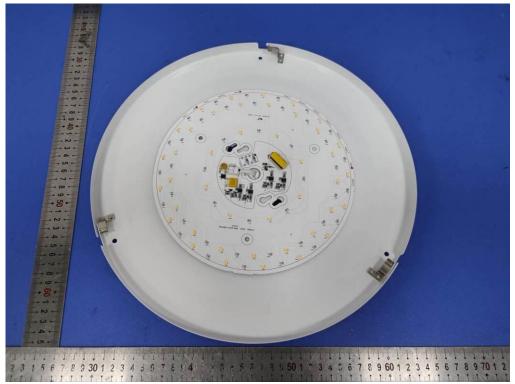


Fig.8

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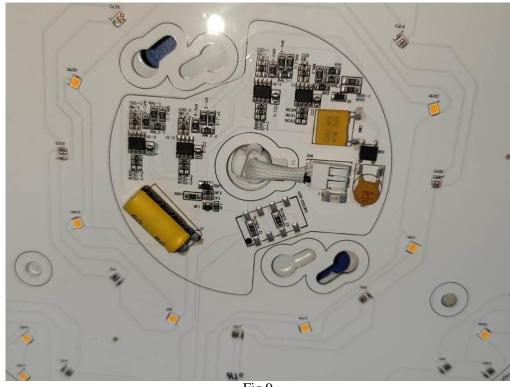


Fig.9

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