

**FCC TEST REPORT**

For

ARTIKA FOR LIVING INC**42FT solar LED string light****Test Model: OUT-BZSO-C1BL-F**

Additional Model No.: OUT-BZSO-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.
101, 201 Bldg A & 301 Bldg C, Juji Industrial Park
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Date of receipt of test sample : December 23, 2024
Number of tested samples : 1
Serial number : Prototype
Sample No. : A241217098001
Date of Test : December 23, 2024 to December 26, 2024
Date of Report : December 27, 2024



**TEST REPORT****Report No.** : **LCSA12204084E****Date of Issue** : December 27, 2024**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
ANSI C63.4-2014**Test Report Form No.** : TRF-4-E-010 A/0**TRF Originator** : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF** : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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Test Item Description : **42FT solar LED string light****Trade Mark** : ARTIKA**Test Model** : OUT-BZSO-C1BL-F**Result** : **Positive****Compiled by:**

Emma wang / File Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang / Manager



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TEST REPORT

Test Report No.: LCSA12204084E	<u>December 27, 2024</u> Date of issue
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Test Model	: OUT-BZSO-C1BL-F
EUT	: 42FT solar LED string light
Applicant	: ARTIKA FOR LIVING INC
Address	: 1756 50th avenue, Lachine, Qc, Canada H8T 2V5
Telephone	: /
Fax	: /
Manufacturer	: Dongguan Light Shines Electric Lighting Co., Ltd.
Address	: Room 101, Building1, Donghuan Road No. 279, Hengli Town, 523478 Dongguan City, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA
Telephone	: /
Fax	: /
Factory	: FOCI LIGHTING VIETNAM CO., LTD
Address	: Lot A4, BUI VIEN street, NGUYEN Duc Canh industrial park, Tran Hung Dao ward, Thai Binh city, Thai Binh province, Vietnam
Telephone	: /
Fax	: /

Test Result	Positive
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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

Report Version	Issue Date	Revision Content	Revised By
000	December 27, 2024	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.

Description of Test Item	Standard	Limits	Result
Conducted emissions on AC mains	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.109, Class B	Pass





1.2 Description of Test Modes

No	Title	Description
TM1	Charging(DC 5.1V From USB Host Unit)	Record
TM2	Solar power supply(DC)	Record
TM3	Working(DC 3.7V*2 From battery)	Record





2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT	: 42FT solar LED string light
Test Model	: OUT-BZSO-C1BL-F
Additional Model	: OUT-BZSO-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.
	Batterie: 18650/3.7V/2000mAh*2pièces
Power Supply	: Tension de charge: 5.1V DC Sortie: 3.5V 1300mA MAX
Highest Internal Frequency	: 1.705-108MHz
Classification of Equipment	: Class B

Highest internal frequency (Fx)	Highest measured frequency
$Fx \leq 1.705\text{MHz}$	30MHz
$1.705\text{MHz} < Fx \leq 108\text{MHz}$	1GHz
$108\text{MHz} < Fx \leq 500\text{MHz}$	2GHz
$500\text{MHz} < Fx \leq 1000\text{MHz}$	5GHz
$Fx > 1\text{GHz}$	5 x Fx up to a maximum of 40GHz

2.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Xiaomi Communication Technology Co., LTD	Power adapter	MDY-12-EF	TA62305N201981 G	/

2.3 Description of Test Facility

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.

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 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emission (150kHz to 30MHz)	$\pm 2.35\text{ dB}$
Radiated Emission (30MHz to 1000MHz)	$\pm 3.48\text{ dB}$
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95%	





confidence level using a coverage factor of $k=2$.



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3. MEASURING DEVICES AND TEST EQUIPMENT

Conducted emissions on AC mains

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	Farad	EZ	/	/	/
Artificial Mains	R&S	ENV216	101288	2024-06-06	2025-06-05
Pulse Limiter	R&S	ESH3-Z2	102750-NB	2024-06-06	2025-06-05
EMI Test Receiver	R&S	ESR3	102312	2024-03-12	2025-03-11

Radiated emissions (Below 1GHz) (Above 1GHz)

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	AUDIX	E3	/	N/A	N/A
By-log Antenna	SCHWARZBECK	VULB9163	01143	2024-07-20	2027-07-19
Horn Antenna	SCHWARZBECK	3115	EABF-018	2024-07-20	2027-07-19
EMI Test Receiver	R&S	ESR3	102311	2024-06-06	2025-06-05
Broadband Preamplifier	/	BP-01M18G	P190501	2024-06-06	2025-06-05
EMI Test Receiver	R&S	ESCI7	101173	2024-10-06	2025-10-07
By-log Antenna	SchwarzZBECK	VULB9163	01565	2024-07-13	2027-07-12
EMI Test Software	Farad	EZ	/	N/A	N/A





4. EMISSION TEST RESULTS (EMI)

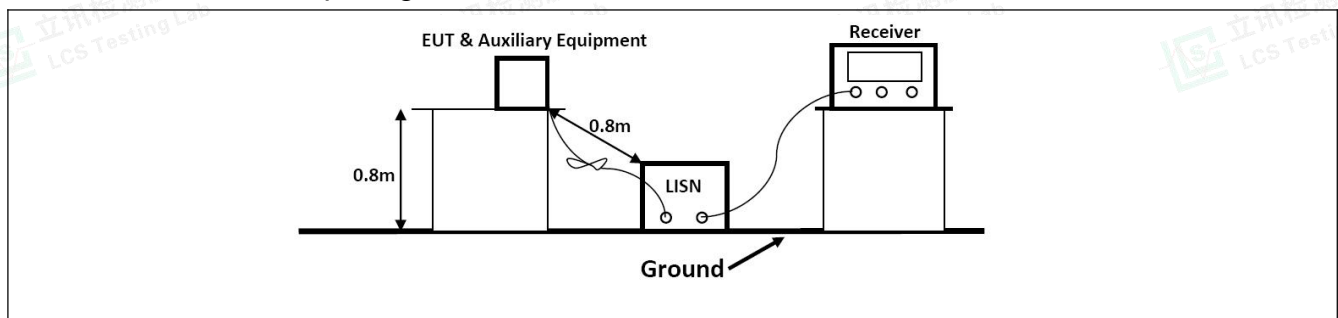
4.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	ANSI C63.4-2014		
Procedure:	An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor		

4.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24.4 °C	Humidity:	53.0 %
Pre test mode:	TM1		
Final test mode:	TM1		

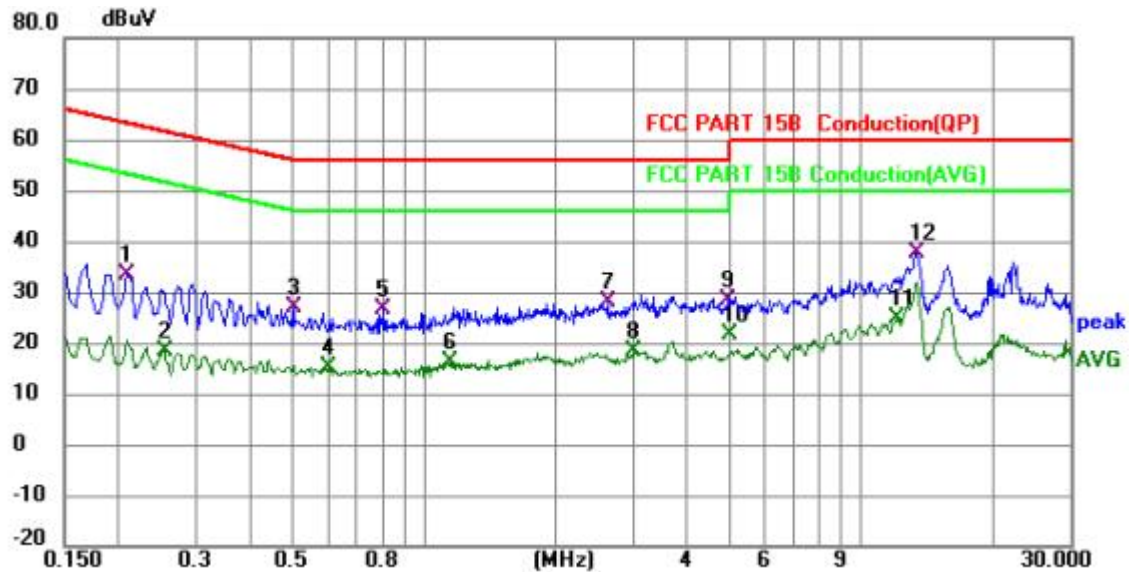
4.1.2 Test Setup Diagram:





4.1.3 Test Data:

TM1 / Line: Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.208	13.72	19.66	33.38	63.28	-29.90	QP	
2		0.254	-1.20	19.71	18.51	51.63	-33.12	AVG	
3		0.501	7.07	19.89	26.96	56.00	-29.04	QP	
4		0.605	-4.76	19.91	15.15	46.00	-30.85	AVG	
5		0.807	6.64	19.89	26.53	56.00	-29.47	QP	
6		1.145	-3.81	19.91	16.10	46.00	-29.90	AVG	
7		2.634	8.37	19.79	28.16	56.00	-27.84	QP	
8		2.994	-1.43	19.81	18.38	46.00	-27.62	AVG	
9		4.952	8.92	19.65	28.57	56.00	-27.43	QP	
10		4.983	2.12	19.64	21.76	46.00	-24.24	AVG	
11		12.062	5.24	19.74	24.98	50.00	-25.02	AVG	
12	*	13.371	18.03	19.80	37.83	60.00	-22.17	QP	



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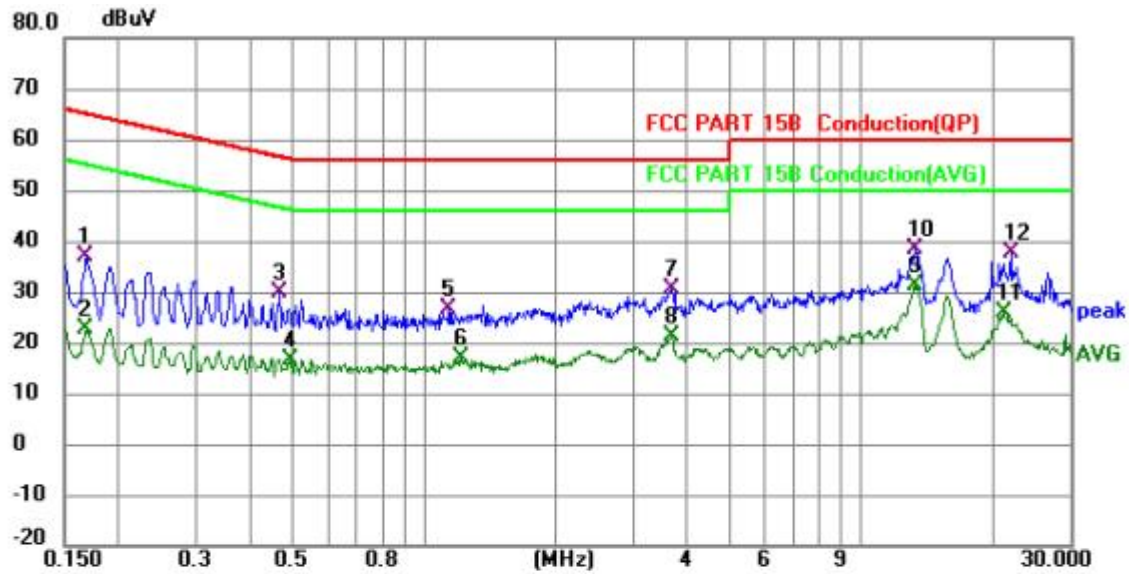
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TM1 / Line: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.168	17.25	19.62	36.87	65.06	-28.19	QP	
2		0.168	3.02	19.62	22.64	55.06	-32.42	AVG	
3		0.465	9.91	19.88	29.79	56.60	-26.81	QP	
4		0.492	-3.16	19.88	16.72	46.13	-29.41	AVG	
5		1.135	6.77	19.91	26.68	56.00	-29.32	QP	
6		1.212	-3.04	19.89	16.85	46.00	-29.15	AVG	
7		3.678	10.58	19.92	30.50	56.00	-25.50	QP	
8		3.692	1.46	19.92	21.38	46.00	-24.62	AVG	
9	*	13.236	11.29	19.80	31.09	50.00	-18.91	AVG	
10		13.322	18.56	19.80	38.36	60.00	-21.64	QP	
11		21.197	6.00	19.85	25.85	50.00	-24.15	AVG	
12		22.029	17.97	19.85	37.82	60.00	-22.18	QP	

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

2) Margin= Reading level + Correct factor-Limit

Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limiter





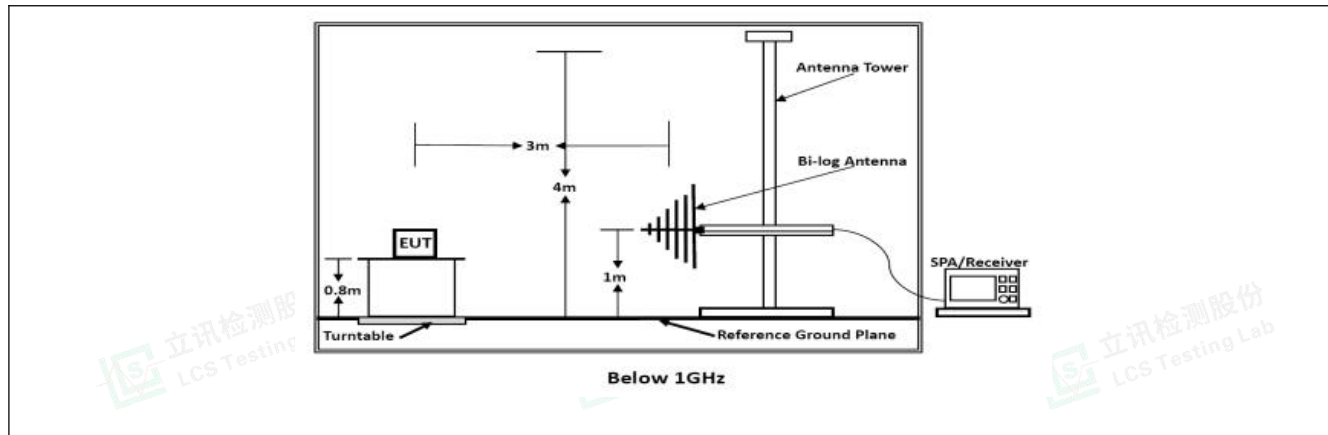
4.2 Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B				
Test Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:				
	Frequency of emission (MHz)	Field strength @3m		Field strength @10m	
		(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)
	30 – 88	100	40	30	29.5
	88 – 216	150	43.5	45	33.1
	216 – 960	200	46	60	35.6
	Above 960	500	54	150	43.5
Test Method:	ANSI C63.4-2014				
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor				

4.2.1 E.U.T. Operation:

Operating Environment:			
Temperature:	26.4 °C	Humidity:	54.2 %
Pre test mode:	TM1,TM2,TM3		
Final test mode:	TM1,TM2,TM3		

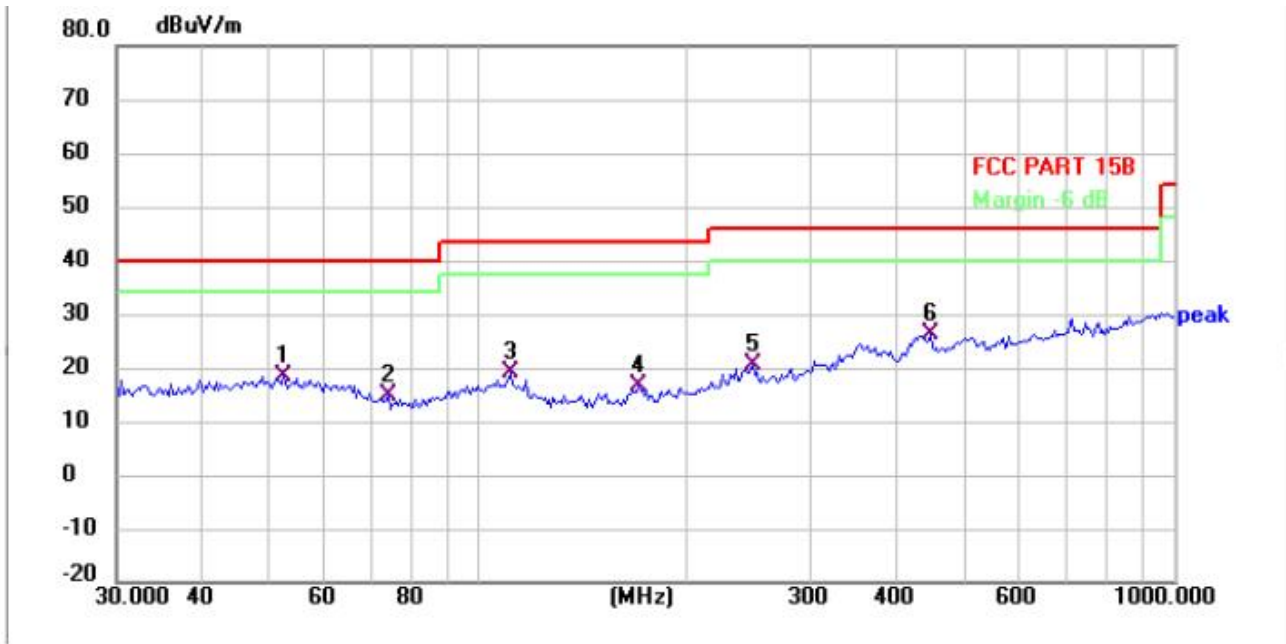
4.2.2 Test Setup Diagram:





4.2.3 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	52.266	29.61	-11.14	18.47	40.00	-21.53	QP	P	
2	73.749	29.64	-14.95	14.69	40.00	-25.31	QP	P	
3	110.858	30.52	-11.49	19.03	43.50	-24.47	QP	P	
4	168.997	31.85	-15.10	16.75	43.50	-26.75	QP	P	
5	246.990	31.99	-11.52	20.47	46.00	-25.53	QP	P	
6 *	445.693	33.81	-7.54	26.27	46.00	-19.73	QP	P	



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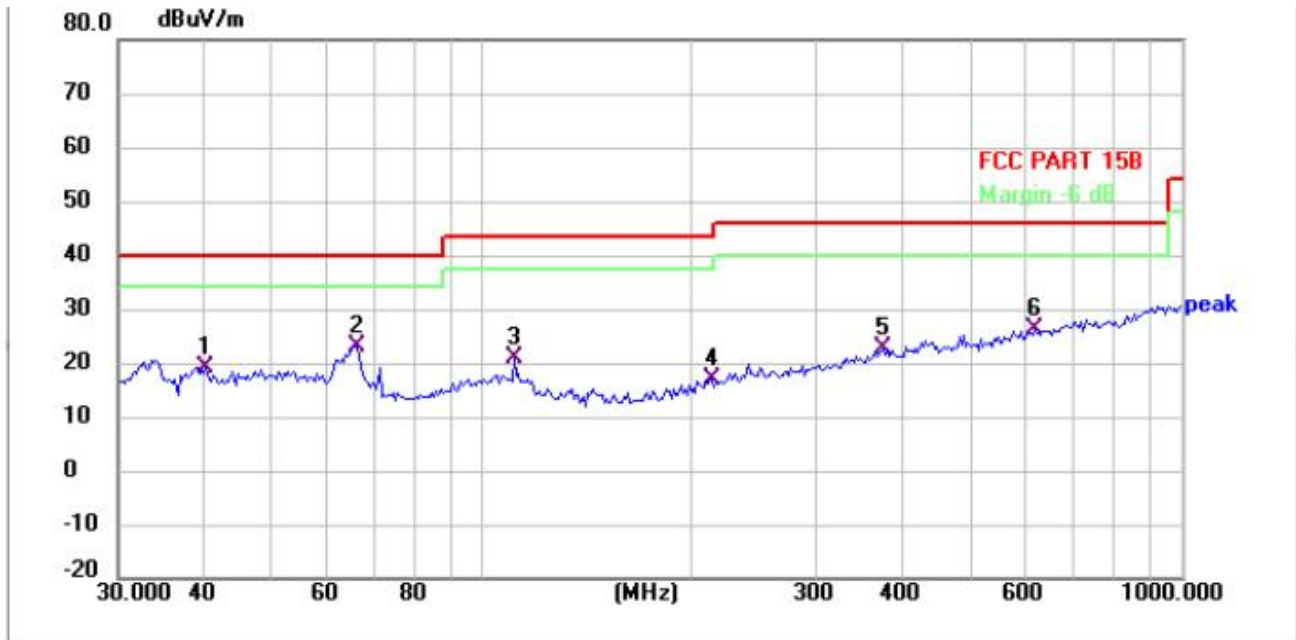
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TM1 / Polarization: Vertical

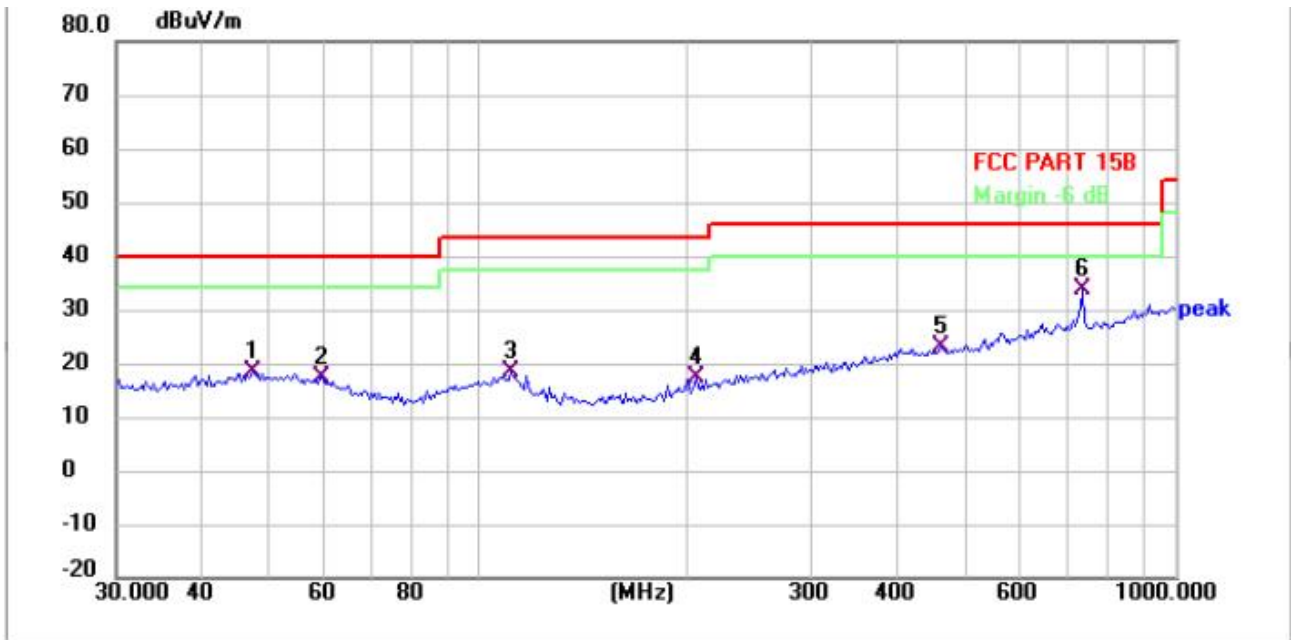


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	40.017	30.80	-11.72	19.08	40.00	-20.92	QP	P	
2 *	65.907	36.58	-13.57	23.01	40.00	-16.99	QP	P	
3	110.858	32.27	-11.49	20.78	43.50	-22.72	QP	P	
4	213.103	29.94	-12.87	17.07	43.50	-26.43	QP	P	
5	373.886	31.21	-8.47	22.74	46.00	-23.26	QP	P	
6	615.774	31.07	-4.67	26.40	46.00	-19.60	QP	P	





TM2 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	47.037	29.49	-11.01	18.48	40.00	-21.52	QP	P	
2	59.313	29.42	-12.00	17.42	40.00	-22.58	QP	P	
3	110.858	29.95	-11.49	18.46	43.50	-25.04	QP	P	
4	204.305	30.38	-13.22	17.16	43.50	-26.34	QP	P	
5	461.631	30.59	-7.45	23.14	46.00	-22.86	QP	P	
6 *	734.037	37.27	-3.57	33.70	46.00	-12.30	QP	P	



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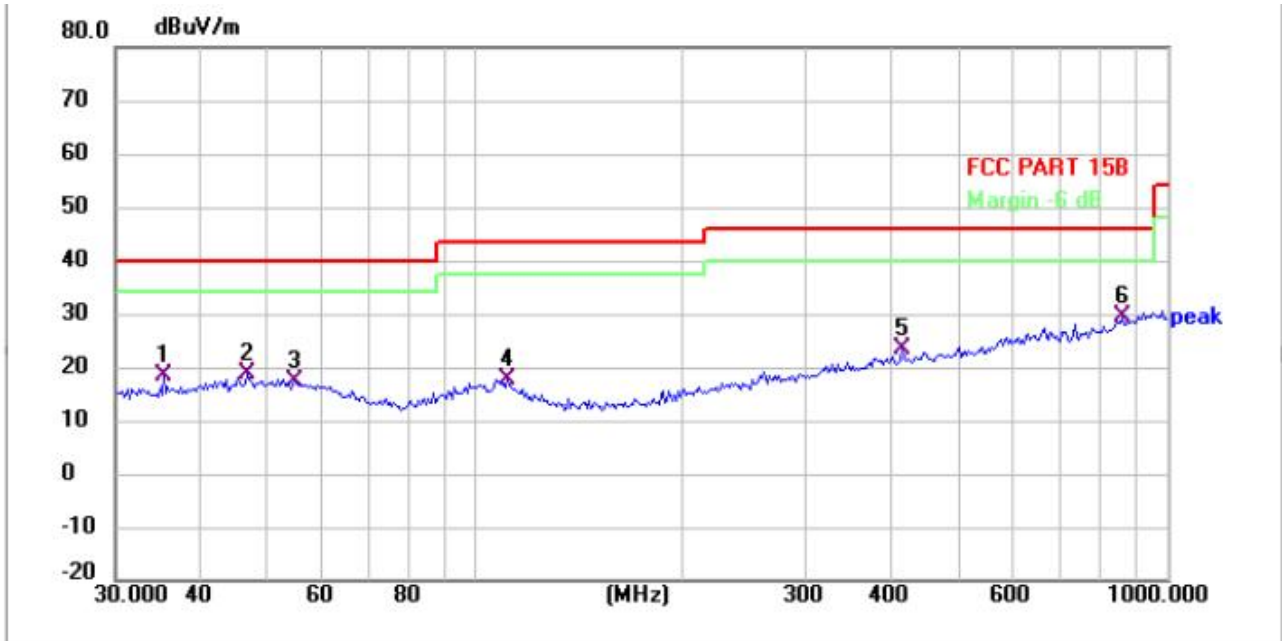
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TM2 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	35.263	31.13	-12.61	18.52	40.00	-21.48	QP	P	
2	46.708	29.73	-11.02	18.71	40.00	-21.29	QP	P	
3	54.517	28.77	-11.40	17.37	40.00	-22.63	QP	P	
4	110.858	29.33	-11.49	17.84	43.50	-25.66	QP	P	
5	412.539	30.99	-7.75	23.24	46.00	-22.76	QP	P	
6 *	862.802	31.19	-1.90	29.29	46.00	-16.71	QP	P	



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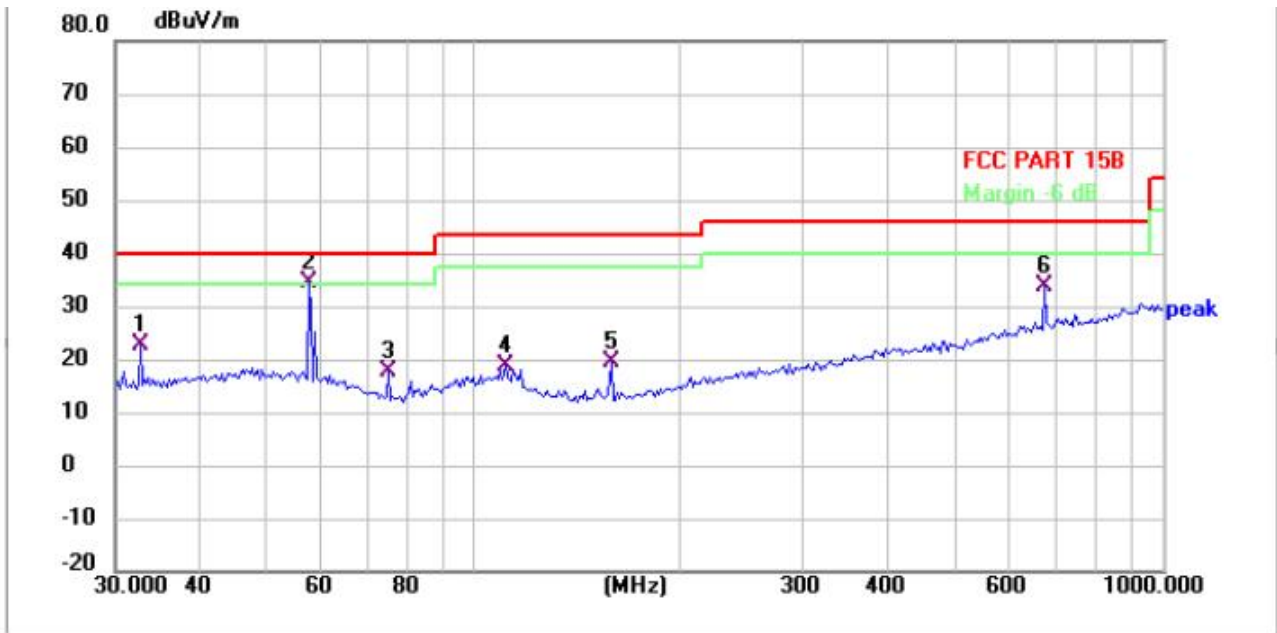
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TM3 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	32.639	35.29	-12.53	22.76	40.00	-17.24	QP	P	
2 *	57.265	46.08	-11.74	34.34	40.00	-5.66	QP	P	
3	74.793	32.89	-15.04	17.85	40.00	-22.15	QP	P	
4	110.858	30.09	-11.49	18.60	43.50	-24.90	QP	P	
5	157.529	34.72	-15.20	19.52	43.50	-23.98	QP	P	
6	674.677	37.79	-4.02	33.77	46.00	-12.23	QP	P	



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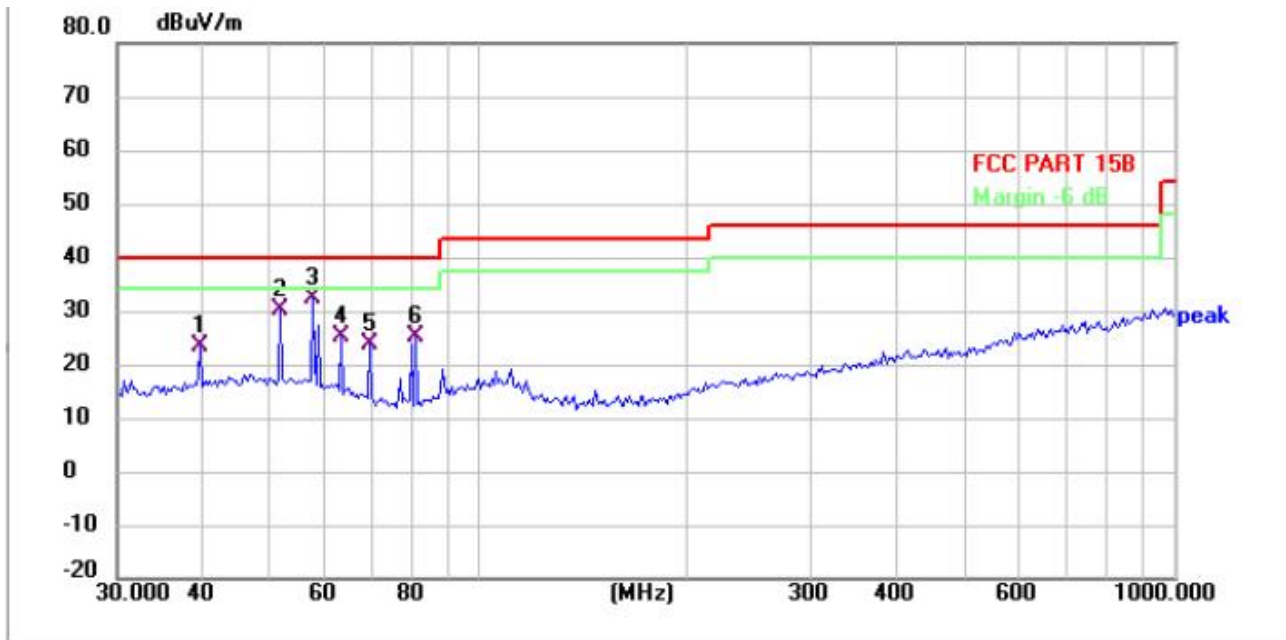
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TM3 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	39.459	35.35	-11.82	23.53	40.00	-16.47	QP	P	
2	51.536	41.31	-11.05	30.26	40.00	-9.74	QP	P	
3 *	57.265	44.04	-11.74	32.30	40.00	-7.70	QP	P	
4	63.186	38.04	-12.88	25.16	40.00	-14.84	QP	P	
5	69.230	38.23	-14.41	23.82	40.00	-16.18	QP	P	
6	80.804	40.54	-15.38	25.16	40.00	-14.84	QP	P	

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

2) Margin= Reading level + Correct factor – Limit

Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor





5. TEST SETUP PHOTOS

Refer to Appendix - Test Setup Photos for LCSA12204084E.docx

6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

Refer to Appendix - EUT Photos for LCSA12204084E.docx

--- End of Report ---



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