

**FCC TEST REPORT**

For

ARTIKA FOR LIVING INC**Ludwig outdoor LED light 5CCT****Test Model: OUT-LG5C-BL**

Additional Model No.:OUT-LG5C-XXXXXXXXXX("XXXXXXXXXX" 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 : January 06, 2025
Number of tested samples : 1
Serial number : Prototype
Sample No. : B241225038001
Date of Test : January 06, 2025 to January 09, 2025
Date of Report : January 10, 2025



**TEST REPORT****Report No.** : LCSA12164355E**Date of Issue** : January 10, 2025**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 : Ludwig outdoor LED light 5CCT**Trade Mark** : ARTIKA**Test Model** : OUT-LG5C-BL**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.: LCSA12164355E	<u>January 10, 2025</u> Date of issue
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Test Model	: OUT-LG5C-BL
EUT	: Ludwig outdoor LED light 5CCT
Applicant	: ARTIKA FOR LIVING INC
Address	: 1756 50th avenue, Lachine, Qc, Canada H8T 2V5
Telephone	: /
Fax	: /
Manufacturer	: DONGGUAN CITY RISING STARS LIGHTING CO.,LTD
Address	: YUANQUAN ROAD, NO.6, BAIHAO VILLAGE, HOUJIE TOWN
Telephone	: /
Fax	: /
Factory	: DONGGUAN CITY RISING STARS LIGHTING CO.,LTD
Address	: YUANQUAN ROAD, NO.6, BAIHAO VILLAGE, HOUJIE TOWN
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	January 10, 2025	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	Working(AC 120V/60Hz)	Record





2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT	: Ludwig outdoor LED light 5CCT
Test Model	: OUT-LG5C-BL
Additional Model No.	: OUT-LG5C-XXXXXXXXXX("XXXXXXXXXX" 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	: 120V~ 60Hz 5W
Highest Internal Frequency	: 1.705-108MHz
Classification of Equipment	: Class B

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

2.2 Support equipment List

The EUT was tested as an independent device.

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.	





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)

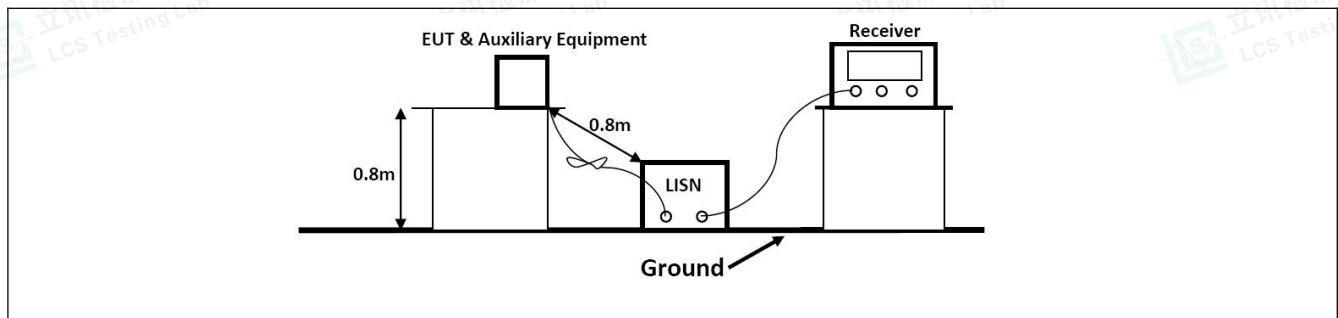
4.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBμV)	
		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		

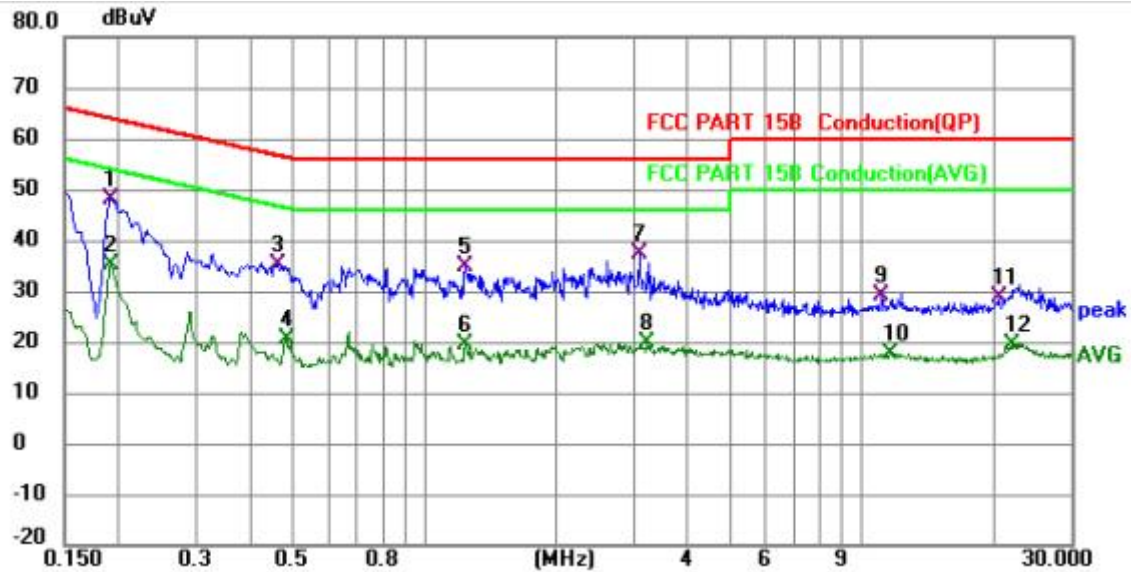
4.1.2 Test Setup Diagram:





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	*	0.191	28.46	19.64	48.10	63.99	-15.89	QP	
2		0.191	15.41	19.64	35.05	53.99	-18.94	AVG	
3		0.461	15.31	19.88	35.19	56.67	-21.48	QP	
4		0.483	0.60	19.88	20.48	46.29	-25.81	AVG	
5		1.239	14.77	19.89	34.66	56.00	-21.34	QP	
6		1.239	-0.60	19.89	19.29	46.00	-26.71	AVG	
7		3.107	17.33	19.82	37.15	56.00	-18.85	QP	
8		3.232	0.12	19.82	19.94	46.00	-26.06	AVG	
9		11.098	9.39	19.66	29.05	60.00	-30.95	QP	
10		11.566	-1.98	19.70	17.72	50.00	-32.28	AVG	
11		20.503	9.03	19.86	28.89	60.00	-31.11	QP	
12		22.146	-0.55	19.86	19.31	50.00	-30.69	AVG	



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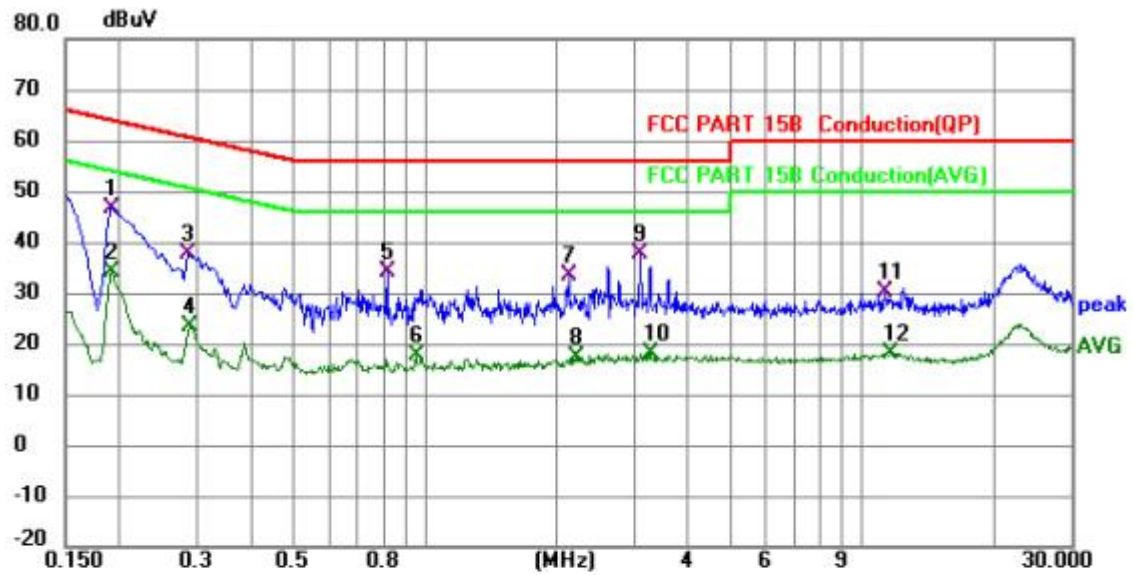
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TM1 / Line: Neutral



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1	*	0.191	26.98	19.64	46.62	63.99	-17.37	QP	
2		0.191	14.40	19.64	34.04	53.99	-19.95	AVG	
3		0.285	18.00	19.74	37.74	60.67	-22.93	QP	
4		0.289	3.69	19.74	23.43	50.55	-27.12	AVG	
5		0.821	14.31	19.89	34.20	56.00	-21.80	QP	
6		0.956	-2.12	19.92	17.80	46.00	-28.20	AVG	
7		2.126	13.49	19.78	33.27	56.00	-22.73	QP	
8		2.229	-2.40	19.78	17.38	46.00	-28.62	AVG	
9		3.115	17.94	19.88	37.82	56.00	-18.18	QP	
10		3.277	-1.84	19.88	18.04	46.00	-27.96	AVG	
11		11.297	10.40	19.68	30.08	60.00	-29.92	QP	
12		11.580	-1.59	19.70	18.11	50.00	-31.89	AVG	

***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 Limitter





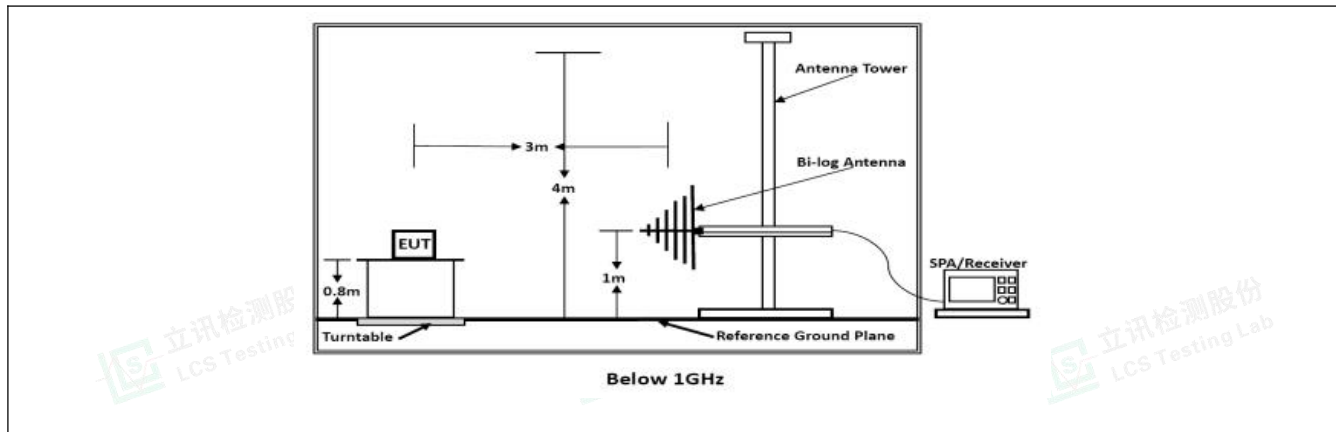
4.2 Radiated emissions (Below 1GHz)

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		
Final test mode:	TM1		

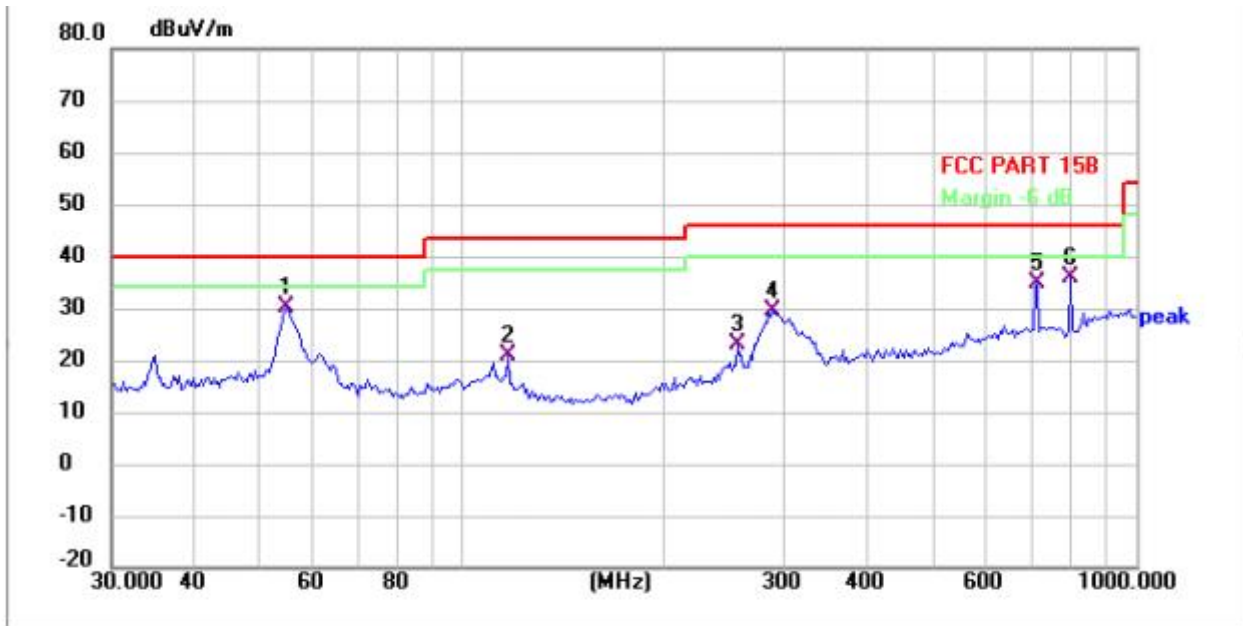
4.2.2 Test Setup Diagram:





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 *	54.517	41.43	-11.40	30.03	40.00	-9.97	QP	P	
2	116.448	33.94	-12.95	20.99	43.50	-22.51	QP	P	
3	255.823	34.40	-11.28	23.12	46.00	-22.88	QP	P	
4	288.284	40.01	-10.57	29.44	46.00	-16.56	QP	P	
5	713.692	38.54	-3.67	34.87	46.00	-11.13	QP	P	
6	798.620	39.15	-3.24	35.91	46.00	-10.09	QP	P	



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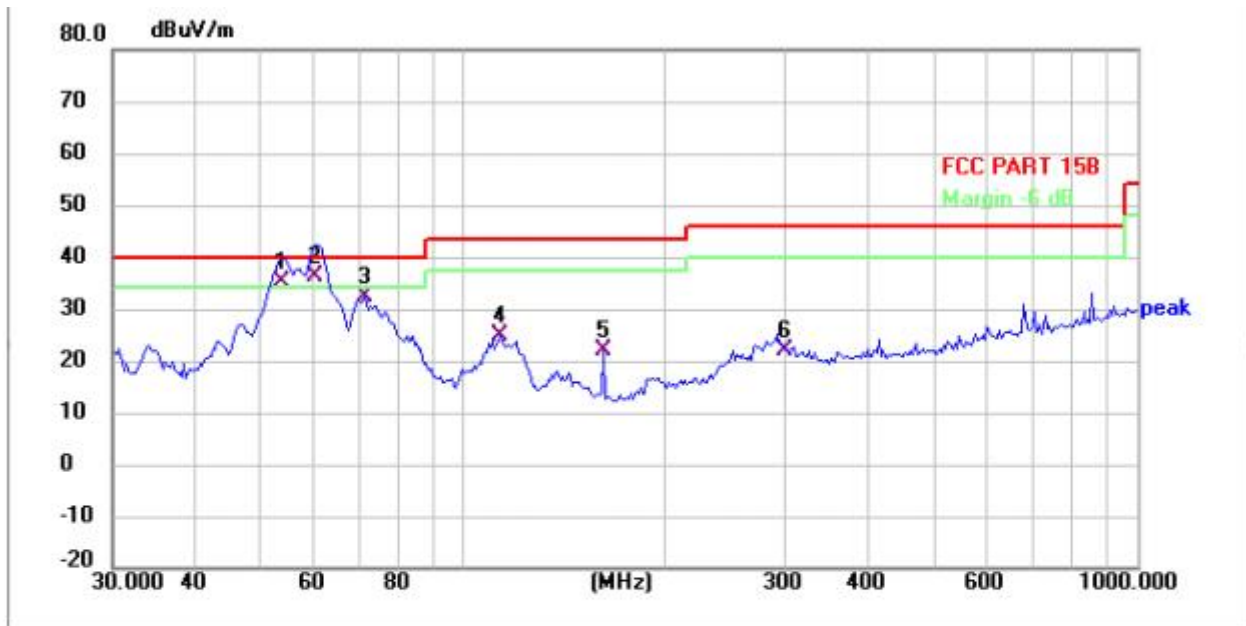
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TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 !	53.379	46.40	-11.28	35.12	40.00	-4.88	QP	P	
2 *	60.153	48.44	-12.12	36.32	40.00	-3.68	QP	P	
3	71.203	46.99	-14.72	32.27	40.00	-7.73	QP	P	
4	113.220	36.77	-12.11	24.66	43.50	-18.84	QP	P	
5	160.885	37.28	-15.17	22.11	43.50	-21.39	QP	P	
6	298.593	32.31	-10.35	21.96	46.00	-24.04	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 LCSA12164355E.docx

6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

Refer to Appendix - EUT Photos for LCSA12164355E.docx

--- End of Report ---

