



FCC TEST REPORT

For

ARTIKA FOR LIVING INC

Radius FM retail Black 3CCT

Test Model: FM-RDC-BL

Additional Model No.:FM-RDC-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.
101, 201 Bldg A & 301 Bldg C, Juji Industrial Park
Address : Yabianxueziwei, Shajing Street, Baoan District,
Shenzhen, 518000, China

Tel : +(86) 0755-82591330
Fax : +(86) 0755-82591332
Web : www.lcs-cert.com
Mail : webmaster@lcs-cert.com

Date of receipt of test sample : January 03, 2025
Number of tested samples : 1
Serial number : Prototype
Sample No. : B241225037001
Date of Test : January 03, 2025 to January 14, 2025
Date of Report : January 15, 2025



**TEST REPORT****Report No.** : LCSA12164358E**Date of Issue** : January 15, 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.**

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen LCS Compliance Testing Laboratory Ltd. is acknowledged as copyright owner and source of the material. Shenzhen LCS Compliance Testing Laboratory Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test Item Description : Radius FM retail Black 3CCT**Trade Mark** : ARTIKA**Test Model** : FM-RDC-BL**Result** : Positive**Compiled by:**

Emma wang / File Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang / Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District,
Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



TEST REPORT

Test Report No.: LCSA12164358E	<u>January 15, 2025</u> Date of issue
--	--

Test Model	: FM-RDC-BL
EUT	: Radius FM retail Black 3CCT
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
--------------------	-----------------

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 15, 2025	Initial Issue	/





TABLE OF CONTENTS

Test Report Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	6
1.1 Description of Standards and Results	6
1.2 Description of Test Modes	7
2. GENERAL INFORMATION	8
2.1 Description of Device (EUT)	8
2.2 Support equipment List	8
2.3 Description of Test Facility	8
2.4 Measurement Uncertainty	8
3. MEASURING DEVICES AND TEST EQUIPMENT	9
4. EMISSION TEST RESULTS (EMI)	10
4.1 Conducted emissions on AC mains	10
4.2 Radiated emissions (Below 1GHz)	13
5. TEST SETUP PHOTOS	16
6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	16





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	: Radius FM retail Black 3CCT
Test Model	: FM-RDC-BL
Additional Model No.	: FM-RDC-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 15.5W
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)

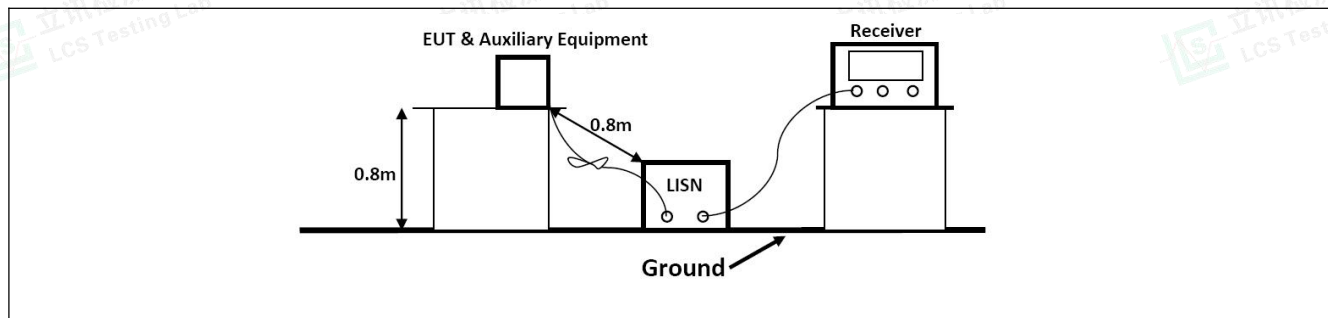
4.1 Conducted emissions on AC mains

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		

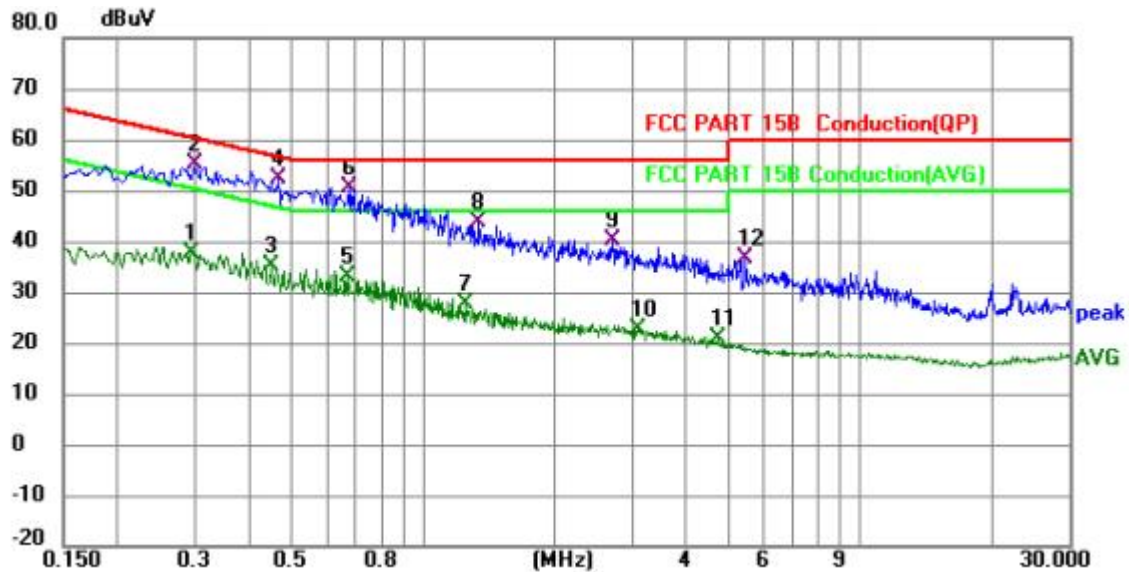
4.1.2 Test Setup Diagram:





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		0.294	17.86	19.75	37.61	50.41	-12.80	AVG	
2		0.298	35.38	19.75	55.13	60.30	-5.17	QP	
3		0.447	15.45	19.87	35.32	46.93	-11.61	AVG	
4	*	0.465	32.55	19.88	52.43	56.60	-4.17	QP	
5		0.672	13.10	19.90	33.00	46.00	-13.00	AVG	
6		0.681	30.66	19.90	50.56	56.00	-5.44	QP	
7		1.248	7.71	19.89	27.60	46.00	-18.40	AVG	
8		1.343	23.92	19.87	43.79	56.00	-12.21	QP	
9		2.715	20.29	19.80	40.09	56.00	-15.91	QP	
10		3.115	2.93	19.82	22.75	46.00	-23.25	AVG	
11		4.708	1.15	19.70	20.85	46.00	-25.15	AVG	
12		5.465	17.18	19.54	36.72	60.00	-23.28	QP	



Shenzhen LCS Compliance Testing Laboratory Ltd.

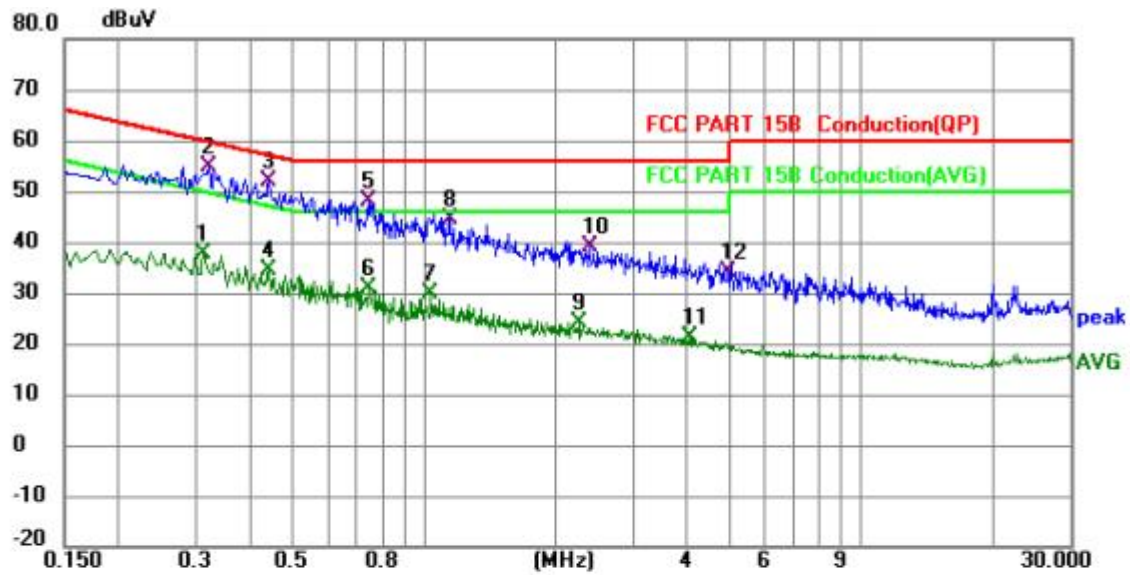
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



TM1 / Line: Neutral



No. Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
	MHz	dBuV	Factor	ment	dBuV	dB		
1	0.312	18.07	19.77	37.84	49.92	-12.08	AVG	
2 *	0.321	34.87	19.78	54.65	59.68	-5.03	QP	
3	0.438	31.93	19.87	51.80	57.10	-5.30	QP	
4	0.438	14.68	19.87	34.55	47.10	-12.55	AVG	
5	0.744	28.20	19.90	48.10	56.00	-7.90	QP	
6	0.744	11.03	19.90	30.93	46.00	-15.07	AVG	
7	1.032	10.05	19.92	29.97	46.00	-16.03	AVG	
8	1.145	24.61	19.91	44.52	56.00	-11.48	QP	
9	2.260	4.49	19.78	24.27	46.00	-21.73	AVG	
10	2.396	19.30	19.80	39.10	56.00	-16.90	QP	
11	4.047	1.16	19.95	21.11	46.00	-24.89	AVG	
12	4.956	14.39	19.75	34.14	56.00	-21.86	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 Limitter





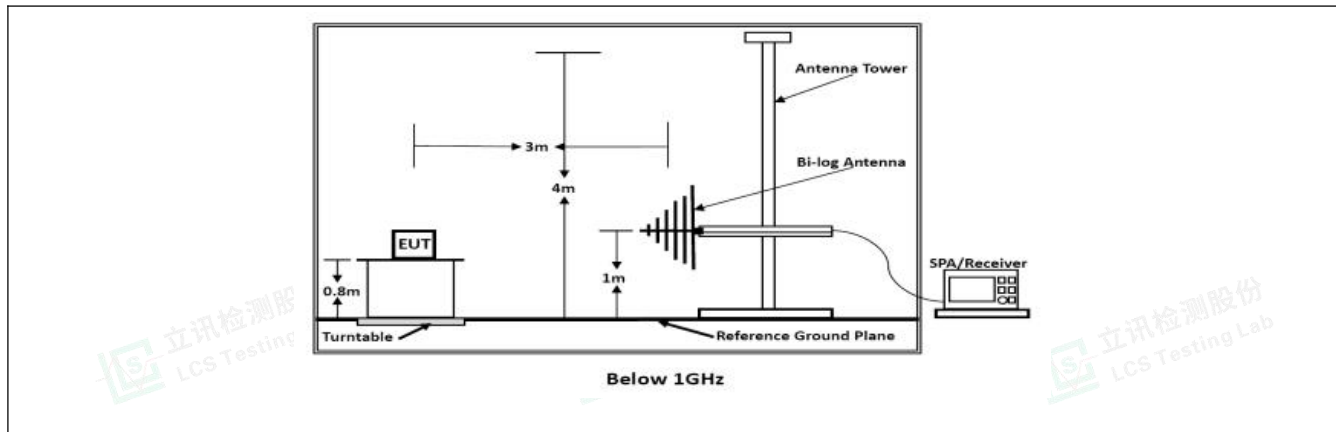
4.2 Radiated emissions (Below 1GHz)

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		

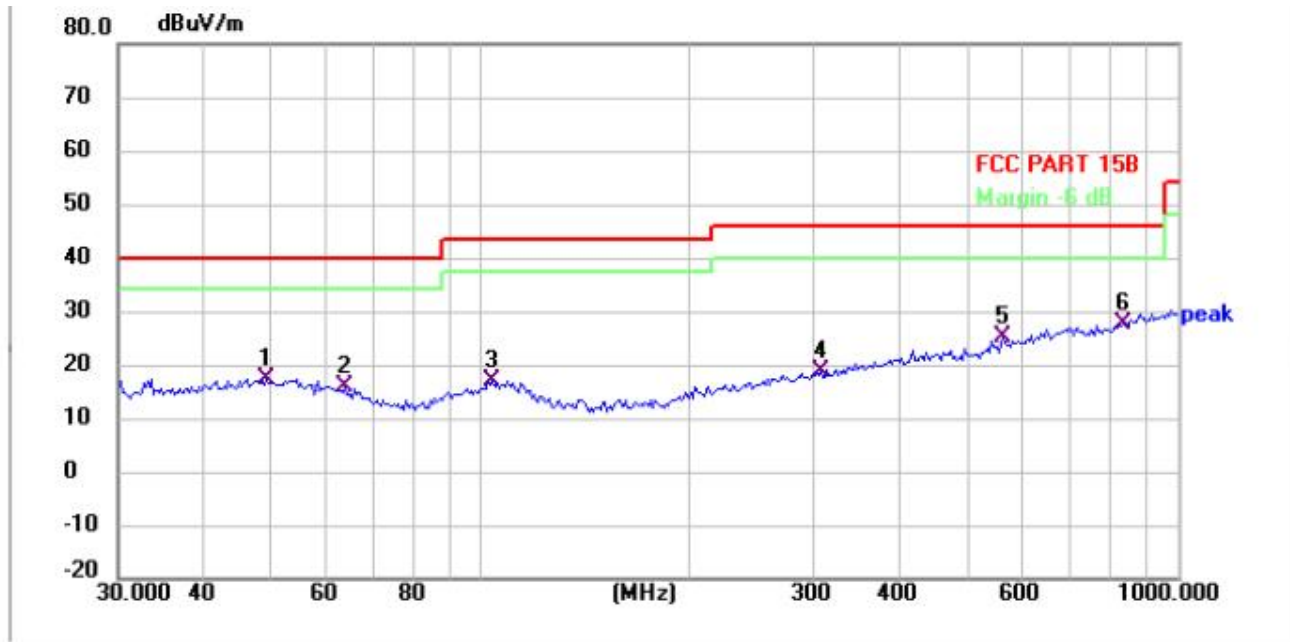
4.2.2 Test Setup Diagram:





4.2.3 Test Data:

TM1 / Polarization: Horizontal

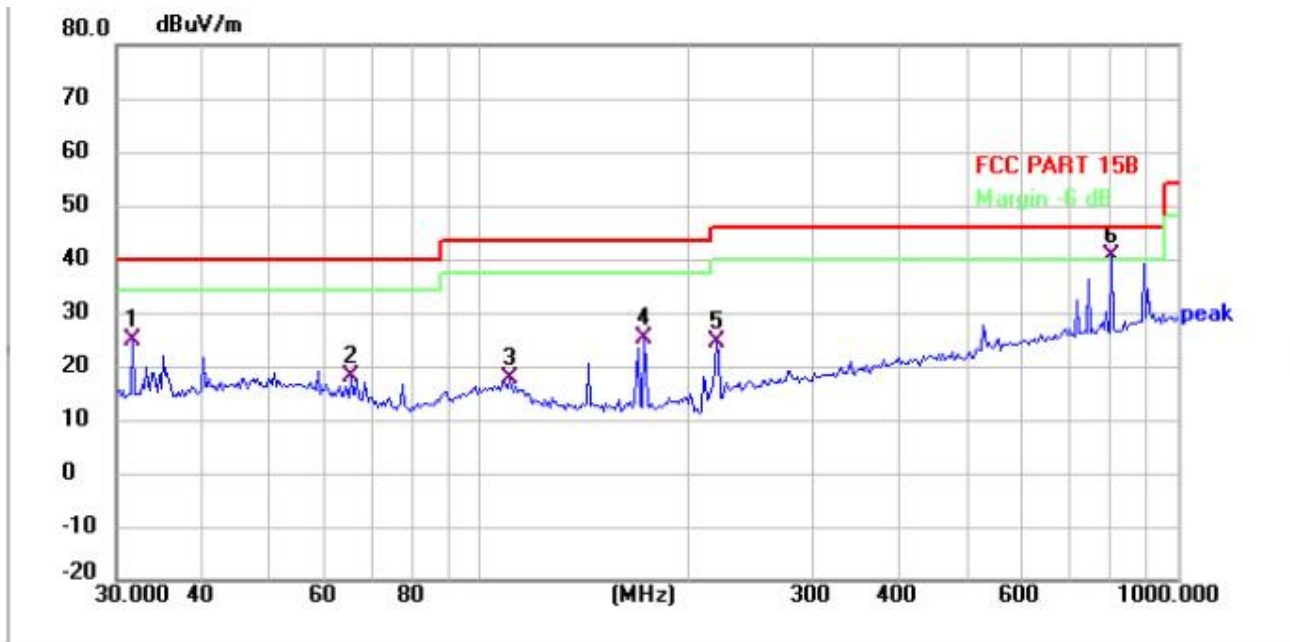


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	49.063	28.25	-10.92	17.33	40.00	-22.67	QP	P	
2	63.631	28.72	-12.99	15.73	40.00	-24.27	QP	P	
3	103.335	28.82	-11.80	17.02	43.50	-26.48	QP	P	
4	307.105	29.06	-10.15	18.91	46.00	-27.09	QP	P	
5	562.014	30.99	-5.75	25.24	46.00	-20.76	QP	P	
6 *	833.013	30.10	-2.53	27.57	46.00	-18.43	QP	P	





TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	31.735	37.22	-12.48	24.74	40.00	-15.26	QP	P	
2	64.987	31.50	-13.33	18.17	40.00	-21.83	QP	P	
3	110.082	28.89	-11.29	17.60	43.50	-25.90	QP	P	
4	171.389	40.16	-15.07	25.09	43.50	-18.41	QP	P	
5	217.644	37.23	-12.68	24.55	46.00	-21.45	QP	P	
6 *	804.252	43.52	-3.15	40.37	46.00	-5.63	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 LCSA12164358E.docx

6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

Refer to Appendix - EUT Photos for LCSA12164358E.docx

--- End of Report ---

