

**FCC TEST REPORT**

For

ARTIKA FOR LIVING INC

Lugano

Test Model: FAN-LUGR-BW

Additional Model No.: FAN-LUGR*****

("*****" means may be follow by up to six characters, The character mentioned can be letters, numbers, "_" or blank, denote different commercial codes)

Prepared for : ARTIKA FOR LIVING INC
Address : 1756, 50th Avenue Montréal (Lachine), Québec, 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 : March 28, 2025
Number of tested samples : 1
Serial number : Prototype
Sample No. : A241211087001
Date of Test : March 28, 2025 to April 08, 2025
Date of Report : April 09, 2025



**TEST REPORT****Report No.** : **LCSA03035308E****Date of Issue** : April 09, 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 Montréal (Lachine), Québec, 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 : **Lugano****Trade Mark** : ARTIKA**Test Model** : FAN-LUGR-BW**Result** : **Pass****Compiled by:**

Emma wang / File Administrator

Supervised by:

Jelly Li/ 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.: LCSA03035308E	<u>April 09, 2025</u> Date of issue
---------------------------------------	--

Test Model	: FAN-LUGR-BW
EUT	: Lugano
Applicant	: ARTIKA FOR LIVING INC
Address	: 1756, 50th Avenue Montréal (Lachine), Québec, Canada H8T 2V5
Telephone	: /
Fax	: /
Manufacturer	: Giant Force Technology Inc.
Address	: Sui Feng Nian Village, Lin Hai Industries Park, Sha Tian Town, Dong Guan City, China
Telephone	: /
Fax	: /
Factory	: Giant Force Technology Inc.
Address	: Sui Feng Nian Village, Lin Hai Industries Park, Sha Tian Town, Dong Guan City, China
Telephone	: /
Fax	: /

Test Result	Pass
--------------------	-------------

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	April 09, 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
4.3 Radiated emissions (Above 1GHz)	17
5. TEST SETUP PHOTOS	20
6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	20





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
Radiated emissions (Above 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



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



2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT	: Lugano
Test Model	: FAN-LUGR-BW FAN-LUGR*****
Additional Model No.	: ("*****" means may be follow by up to six characters, The character mentioned can be letters, numbers, "_" or blank, denote different commercial codes)
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested.
Power Supply	: 120V~, 60Hz, 30W FAN+30W LED
Highest Internal Frequency	: 108MHz <FX<1GHz
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

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	2025-03-06	2026-03-05

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
MXA Signal Analyzer	Agilent	N9020A	MY53290398	2024-06-06	2025-06-05





4. EMISSION TEST RESULTS (EMI)

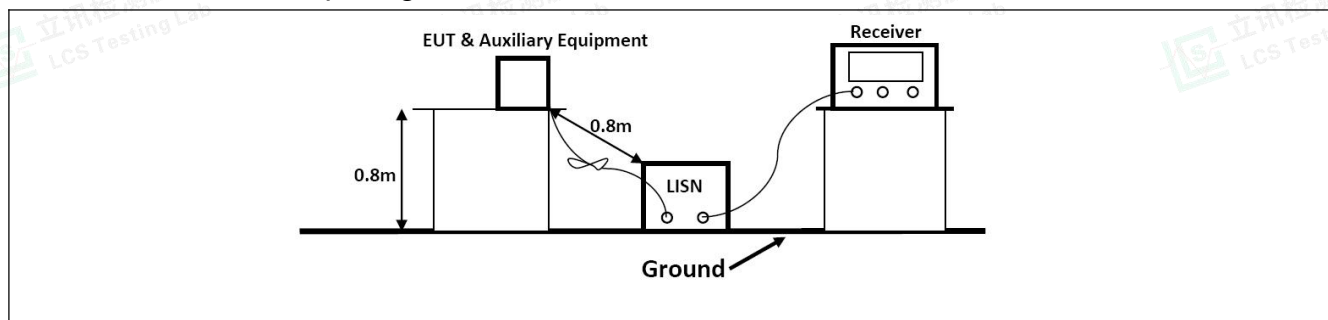
4.1 Conducted emissions on AC mains

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:	23.5 °C	Humidity:	53.6 %
Pre test mode:	TM1		
Final test mode:	TM1		

4.1.2 Test Setup Diagram:



4.1.3 Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBuV)} = RA \text{ (dBuV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

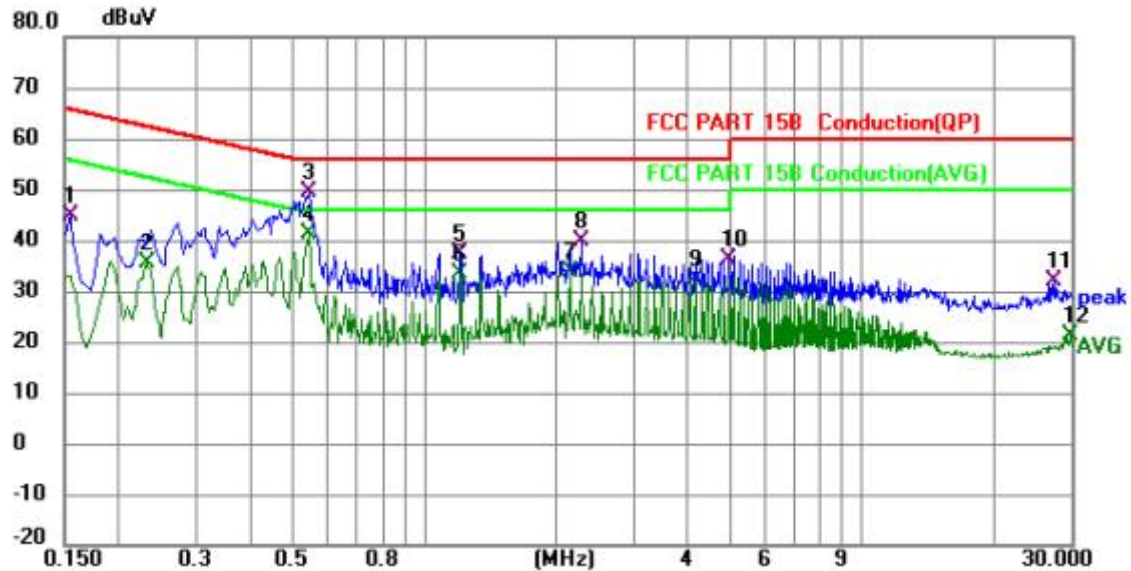
Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor





4.1.4 Test Data:

TM1 / Line: Line

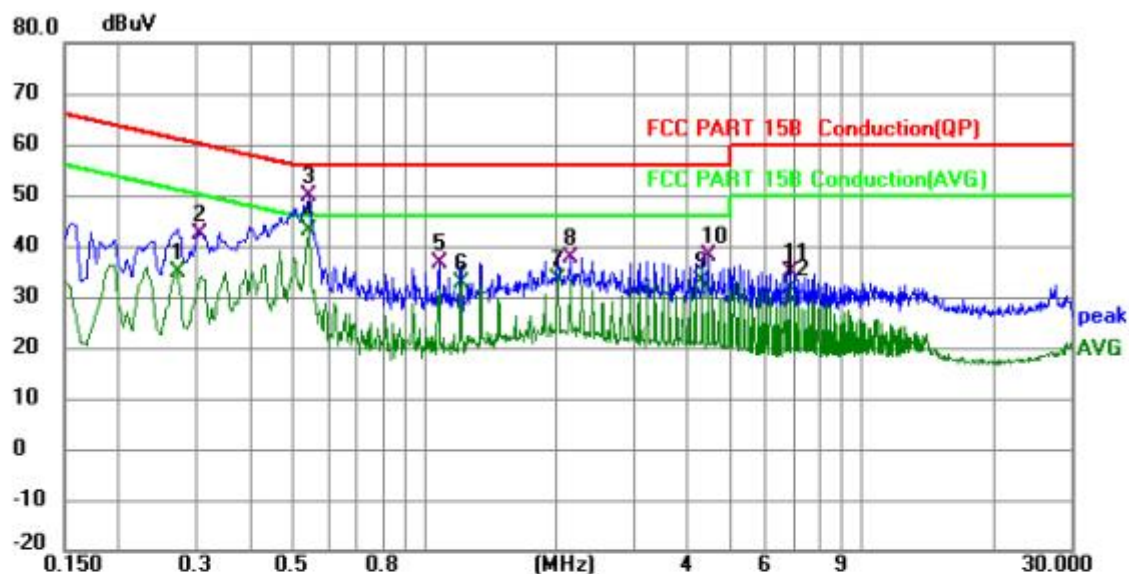


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.155	24.17	20.63	44.80	65.73	-20.93	QP	
2		0.232	14.97	20.70	35.67	52.38	-16.71	AVG	
3		0.541	28.41	20.89	49.30	56.00	-6.70	QP	
4	*	0.541	20.19	20.89	41.08	46.00	-4.92	AVG	
5		1.203	16.36	20.91	37.27	56.00	-18.73	QP	
6		1.203	12.60	20.91	33.51	46.00	-12.49	AVG	
7		2.144	12.87	20.76	33.63	46.00	-12.37	AVG	
8		2.273	19.21	20.76	39.97	56.00	-16.03	QP	
9		4.158	11.45	20.80	32.25	46.00	-13.75	AVG	
10		4.952	15.63	20.61	36.24	56.00	-19.76	QP	
11		27.271	11.22	20.88	32.10	60.00	-27.90	QP	
12		29.841	0.26	20.91	21.17	50.00	-28.83	AVG	





TM1 / Line: Neutral



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.272	14.29	20.69	34.98	51.06	-16.08	AVG	
2		0.305	21.76	20.73	42.49	60.11	-17.62	QP	
3		0.541	28.78	20.88	49.66	56.00	-6.34	QP	
4	*	0.541	22.02	20.88	42.90	46.00	-3.10	AVG	
5		1.077	15.83	20.91	36.74	56.00	-19.26	QP	
6		1.212	11.84	20.88	32.72	46.00	-13.28	AVG	
7		2.018	12.67	20.81	33.48	46.00	-12.52	AVG	
8		2.152	16.88	20.82	37.70	56.00	-18.30	QP	
9		4.303	12.34	20.81	33.15	46.00	-12.85	AVG	
10		4.439	17.40	20.78	38.18	56.00	-17.82	QP	
11		6.859	14.49	20.50	34.99	60.00	-25.01	QP	
12		6.859	10.94	20.50	31.44	50.00	-18.56	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





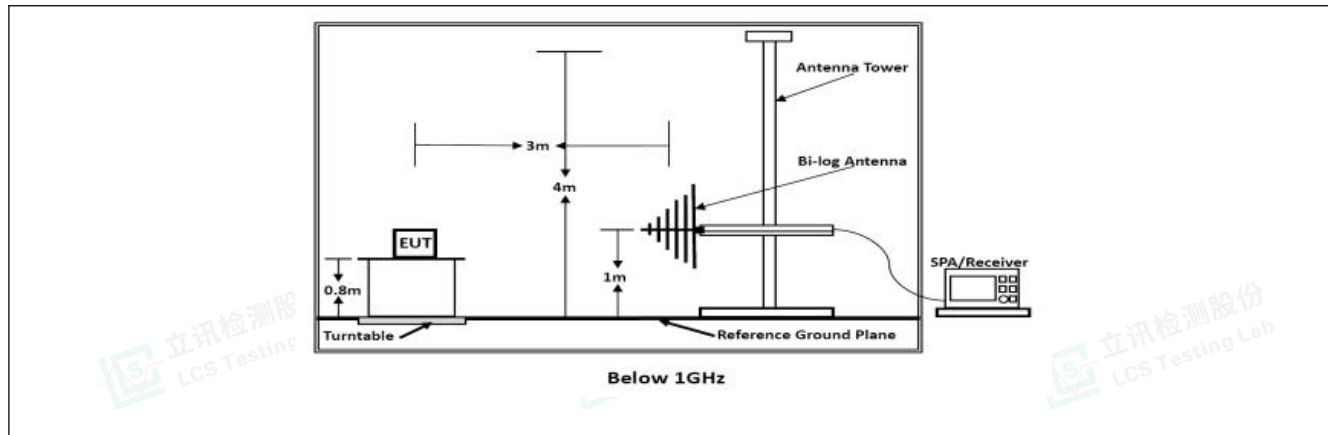
4.2 Radiated emissions (Below 1GHz)

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:	22.3 °C	Humidity:	53 %
Pre test mode:	TM1		
Final test mode:	TM1		

4.2.2 Test Setup Diagram:





4.2.3 Field Strength Calculation:

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

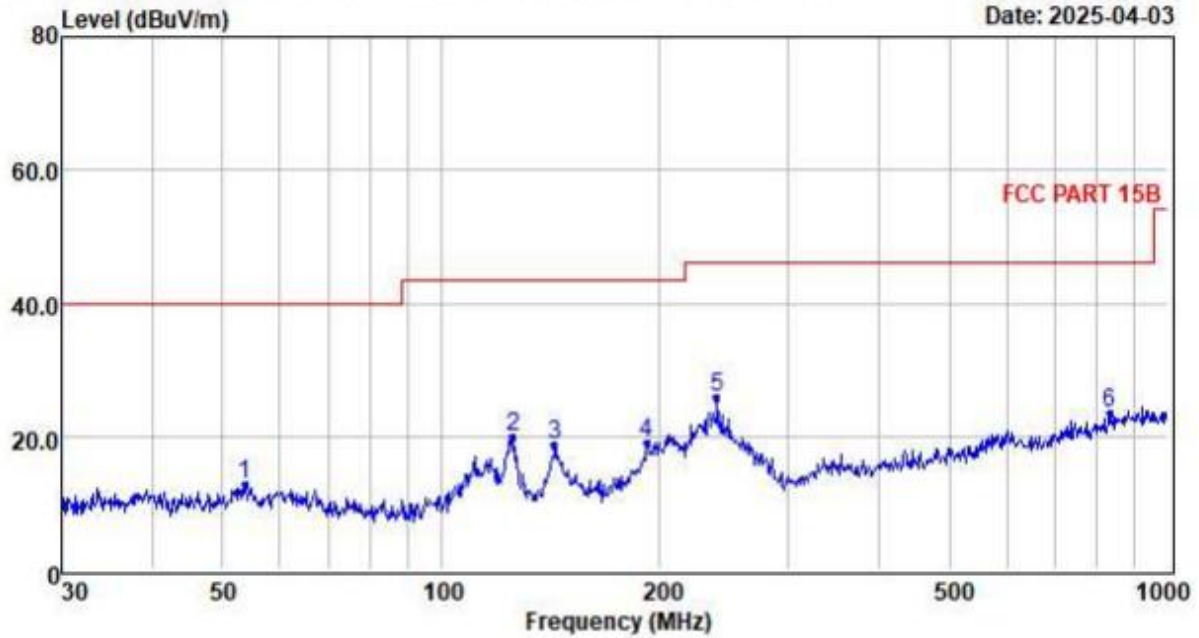
Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	





4.2.4 Test Data:

TM1 / Polarization: Horizontal



	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	53.69	-0.24	0.62	12.56	12.94	40.00	-27.06	QP
2	125.45	8.96	0.93	9.93	19.82	43.50	-23.68	QP
3	143.33	9.14	1.01	8.57	18.72	43.50	-24.78	QP
4	191.75	7.44	1.18	10.39	19.01	43.50	-24.49	QP
5	239.99	12.31	1.25	12.21	25.77	46.00	-20.23	QP
6	833.32	0.88	2.03	20.67	23.58	46.00	-22.42	QP

Note: 1. All readings are Quasi-peak values.

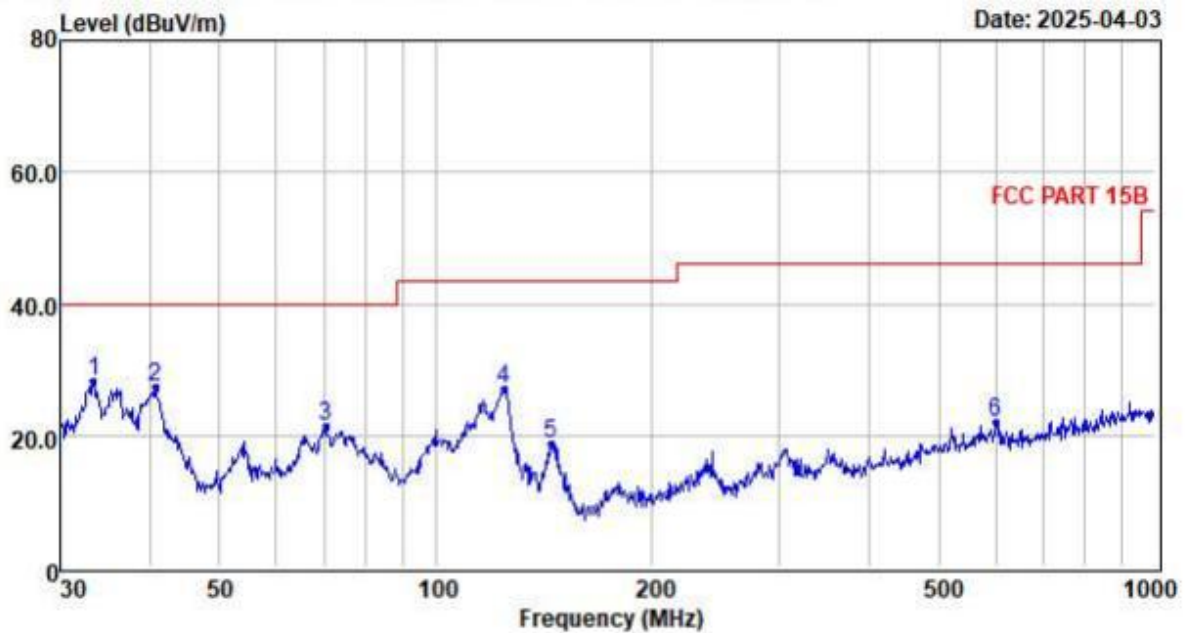
2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that are 20db below the official limit are not reported





TM1 / Polarization: Vertical



	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	33.44	17.00	0.44	10.81	28.25	40.00	-11.75	QP
2	40.70	15.43	0.52	11.49	27.44	40.00	-12.56	QP
3	70.34	10.44	0.70	10.19	21.33	40.00	-18.67	QP
4	124.57	15.98	0.93	10.04	26.95	43.50	-16.55	QP
5	144.84	9.17	1.01	8.60	18.78	43.50	-24.72	QP
6	601.43	1.22	1.50	19.28	22.00	46.00	-24.00	QP

Note: 1. All readings are Quasi-peak values.

2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that are 20db below the official limit are not reported

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





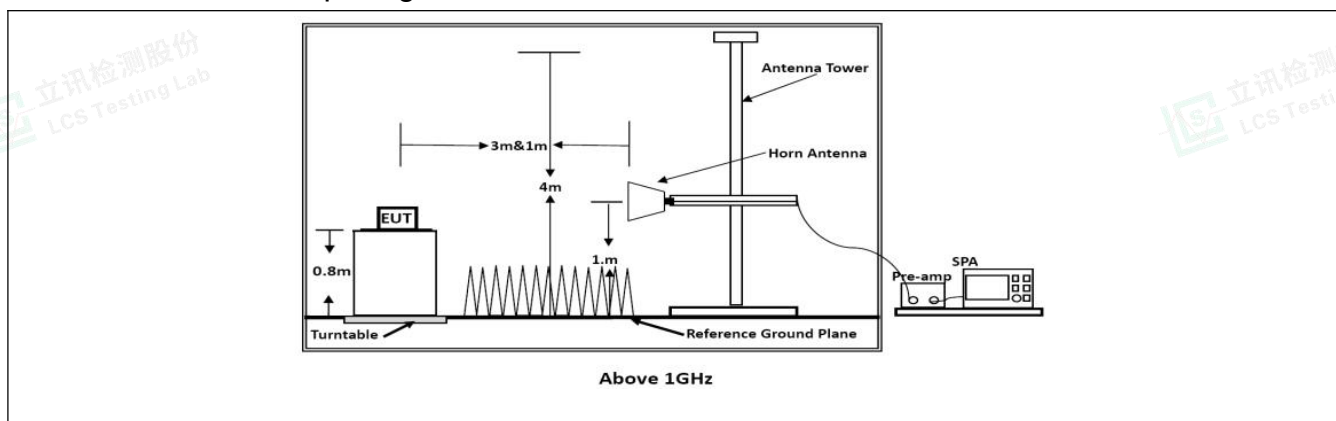
4.3 Radiated emissions (Above 1GHz)

Test Requirement:	15.109, Class B			
Test Limit:	Frequency of emission (MHz)	Field strength @3m		
		Average (uV/m)	Average(d BuV/m)	Peak (dBuV/m)
	Above 1GHz	500	54	74
Test Method:	ANSI C63.4-2014			
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. For below 1GHz test, Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. For above 1GHz test, Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor			

4.3.1 E.U.T. Operation:

Operating Environment:			
Temperature:	23.9 °C	Humidity:	52.0 %
Pre test mode:	TM1		
Final test mode:	TM1		

4.3.2 Test Setup Diagram:



4.3.3 Field Strength Calculation:

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

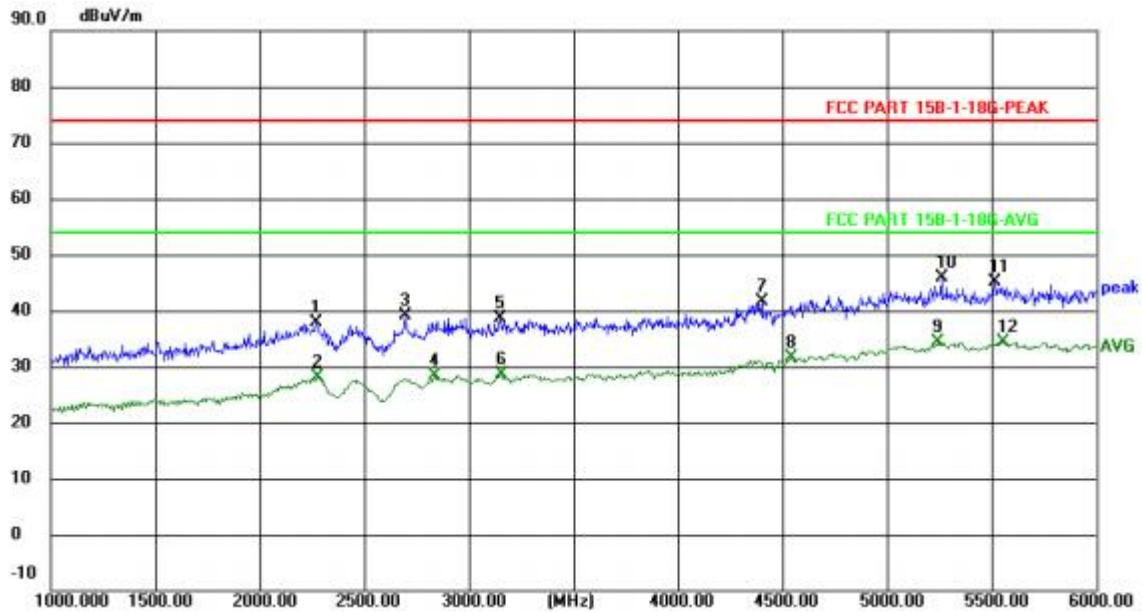
Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	





4.3.4 Test Data:

TM1 / Polarization: Horizontal

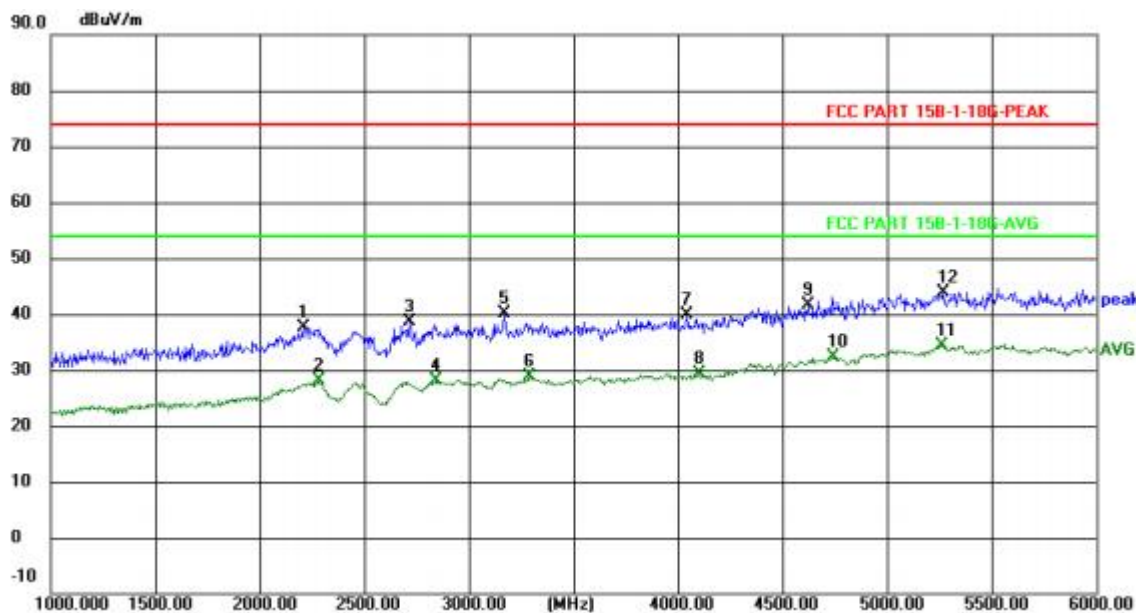


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2270.000	48.51	-10.65	37.86	74.00	-36.14	peak	P
2	2275.000	38.73	-10.60	28.13	54.00	-25.87	AVG	P
3	2695.000	49.77	-10.53	39.24	74.00	-34.76	peak	P
4	2835.000	38.17	-9.89	28.28	54.00	-25.72	AVG	P
5	3150.000	47.63	-8.97	38.66	74.00	-35.34	peak	P
6	3155.000	37.69	-9.04	28.65	54.00	-25.35	AVG	P
7	4400.000	48.00	-6.43	41.57	74.00	-32.43	peak	P
8	4540.000	36.66	-5.12	31.54	54.00	-22.46	AVG	P
9	5245.000	36.61	-2.13	34.48	54.00	-19.52	AVG	P
10	5260.000	48.06	-2.19	45.87	74.00	-28.13	peak	P
11	5515.000	47.16	-2.15	45.01	74.00	-28.99	peak	P
12	5555.000	36.52	-2.06	34.46	54.00	-19.54	AVG	P





TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2210.000	48.74	-11.03	37.71	74.00	-36.29	peak	P
2	2280.000	38.71	-10.55	28.16	54.00	-25.84	AVG	P
3	2715.000	49.02	-10.39	38.63	74.00	-35.37	peak	P
4	2845.000	37.98	-9.93	28.05	54.00	-25.95	AVG	P
5	3170.000	49.35	-9.25	40.10	74.00	-33.90	peak	P
6	3290.000	37.86	-9.10	28.76	54.00	-25.24	AVG	P
7	4040.000	47.35	-7.50	39.85	74.00	-34.15	peak	P
8	4100.000	36.76	-7.39	29.37	54.00	-24.63	AVG	P
9	4620.000	46.37	-4.78	41.59	74.00	-32.41	peak	P
10	4740.000	36.51	-4.22	32.29	54.00	-21.71	AVG	P
11	5265.000	36.75	-2.25	34.50	54.00	-19.50	AVG	P
12	5270.000	46.22	-2.32	43.90	74.00	-30.10	peak	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 LCSA03035308E.docx

6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

Refer to Appendix - EUT Photos for LCSA03035308E.docx

--- End of Report ---



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