



FCC TEST REPORT

For

ARTIKA FOR LIVING INC

DARREN

Test Model: 23FAN-DAR-W2BL

Additional Model No.: 23FAN-DAR-*****("*****" 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

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Date of receipt of test sample : September 18, 2024

Number of tested samples : 1

Serial number : Prototype

Sample No. : B240902038001

Date of Test : September 18, 2024 to September 23, 2024

Date of Report : September 24, 2024



Shenzhen LCS Compliance Testing Laboratory Ltd.

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**TEST REPORT****Report No.** : **LCSA08134228E****Date of Issue** : September 24, 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 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.**

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Test Item Description. : **DARREN****Trade Mark** : ARTIKA**Test Model** : 23FAN-DAR-W2BL**Result** : **Positive****Compiled by:**

Emma wang / File Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang / Manager





TEST REPORT

Test Report No.: LCSA08134228E	<u>September 24, 2024</u> Date of issue
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Test Model	: 23FAN-DAR-W2BL
EUT	: DARREN
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	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	September 24, 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
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





2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT	: DARREN
Test Model	: 23FAN-DAR-W2BL
Additional Model No.	: 23FAN-DAR-*****("*****" 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 LED+25W Fan
Highest Internal Frequency	: $F_x > 108 \text{ MHz}$
Classification of Equipment	: Class B

Highest internal frequency (F_x)	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 F_x 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
MXA Signal Analyzer	Agilent	N9020A	MY53290398	2024-06-06	2025-06-05





4. EMISSION TEST RESULTS (EMI)

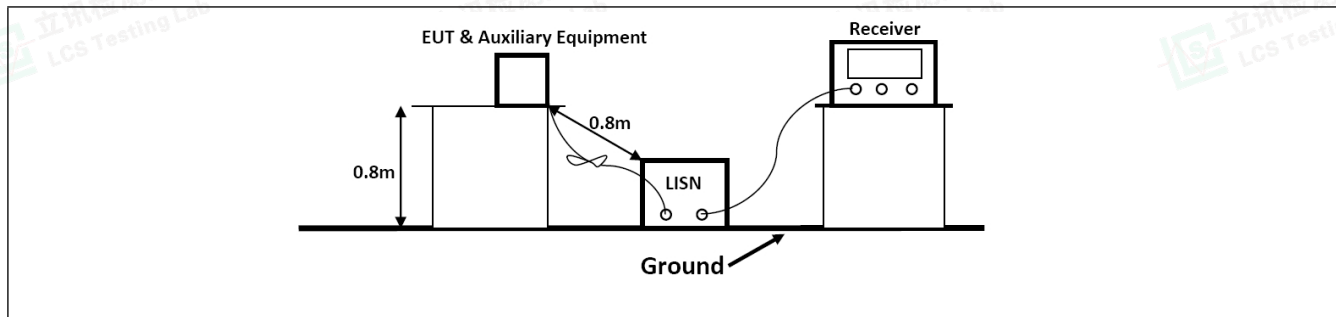
4.1 Conducted emissions on AC mains

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:	22.5 °C	Humidity:	53.7 %
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:

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

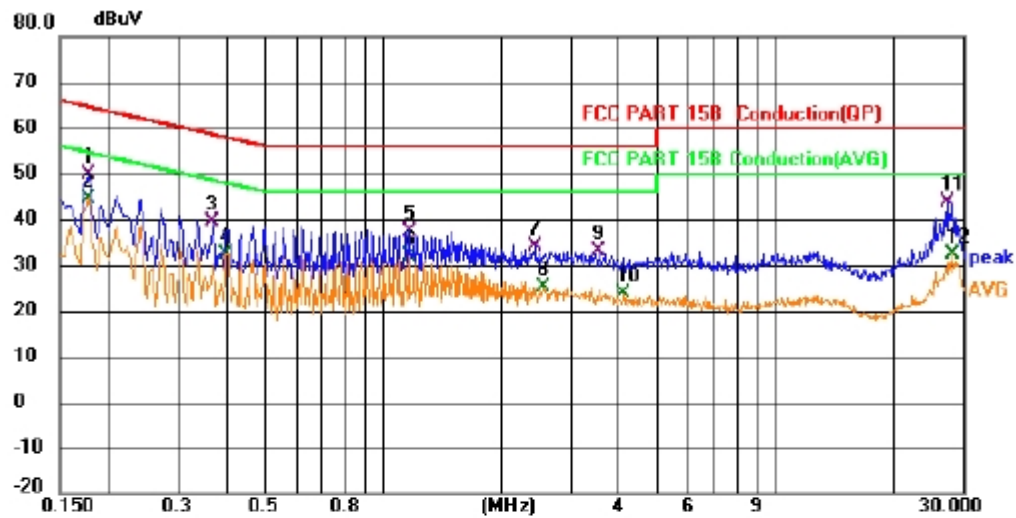
Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor





4.1.4 Test Data:

TM1 / Line: Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
1		0.177	30.05	19.63	49.68	64.63	-14.95	QP	
2	*	0.177	25.01	19.63	44.64	54.63	-9.99	AVG	
3		0.366	19.67	19.63	39.30	58.59	-19.29	QP	
4		0.398	12.68	19.63	32.31	47.90	-15.59	AVG	
5		1.167	17.85	19.65	37.50	56.00	-18.50	QP	
6		1.167	12.17	19.65	31.82	46.00	-14.18	AVG	
7		2.445	14.50	19.68	34.18	56.00	-21.82	QP	
8		2.575	5.45	19.68	25.13	46.00	-20.87	AVG	
9		3.543	13.21	19.70	32.91	56.00	-23.09	QP	
10		4.092	4.09	19.70	23.79	46.00	-22.21	AVG	
11		27.398	23.75	20.05	43.80	60.00	-16.20	QP	
12		28.212	12.09	20.07	32.16	50.00	-17.84	AVG	



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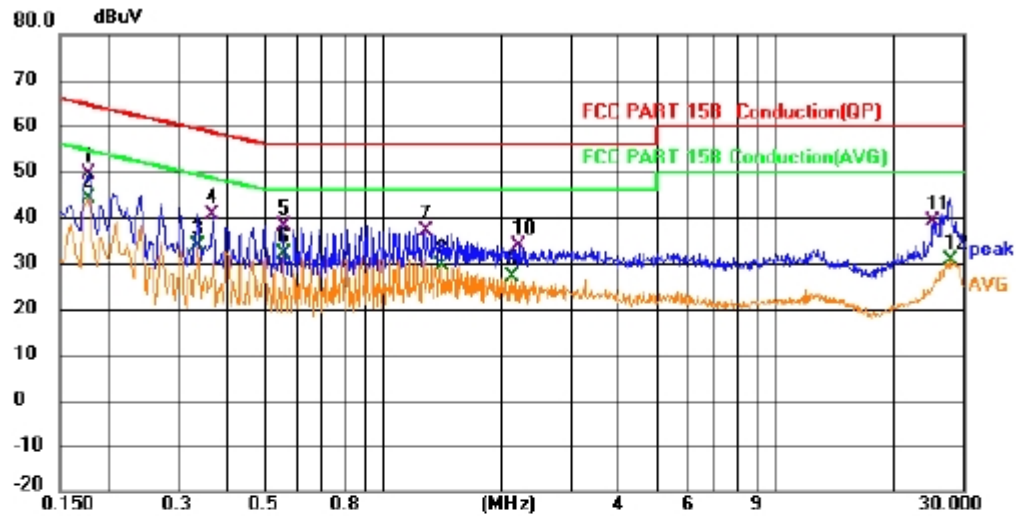
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TM1 / Line: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.177	29.82	19.63	49.45	64.63	-15.18	QP	
2	*	0.177	24.63	19.63	44.26	54.63	-10.37	AVG	
3		0.335	14.22	19.63	33.85	49.33	-15.48	AVG	
4		0.366	20.76	19.63	40.39	58.59	-18.20	QP	
5		0.559	18.27	19.65	37.92	56.00	-18.08	QP	
6		0.559	12.27	19.65	31.92	46.00	-14.08	AVG	
7		1.293	17.26	19.66	36.92	56.00	-19.08	QP	
8		1.423	9.88	19.66	29.54	46.00	-16.46	AVG	
9		2.126	7.13	19.69	26.82	46.00	-19.18	AVG	
10		2.220	13.98	19.69	33.67	56.00	-22.33	QP	
11		25.300	19.04	20.02	39.06	60.00	-20.94	QP	
12		28.117	10.54	20.07	30.61	50.00	-19.39	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 Limiter





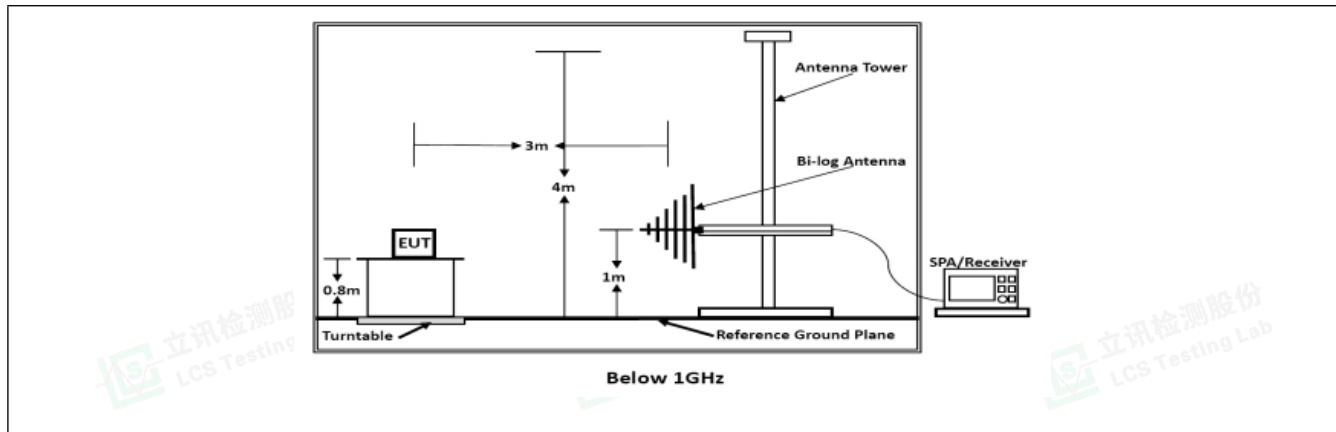
4.2 Radiated emissions (Below 1GHz)

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		
Final test mode:	TM1		

4.2.2 Test Setup Diagram:





4.2.3 Field Strength Calculation:

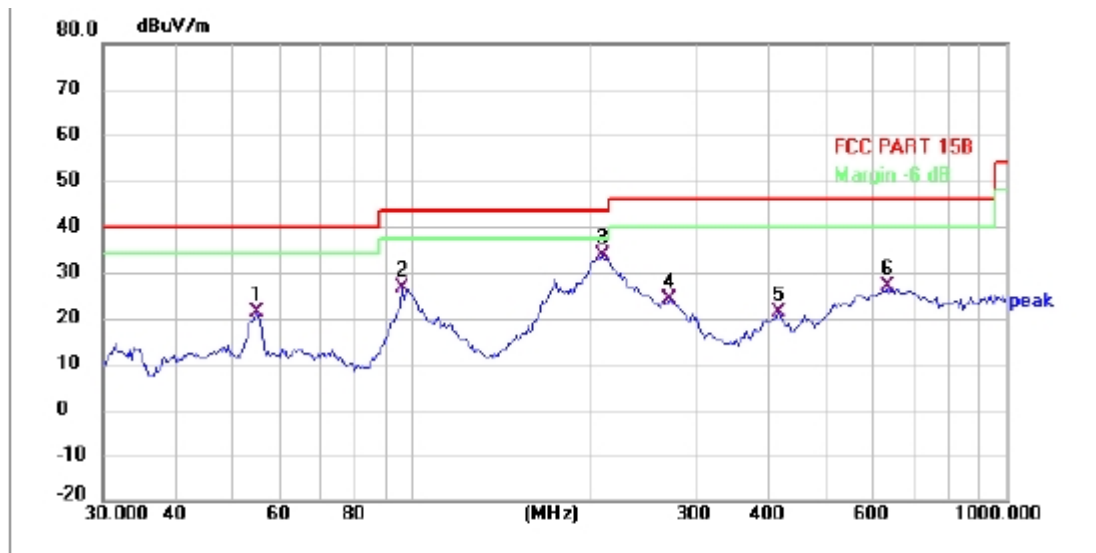
The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

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

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

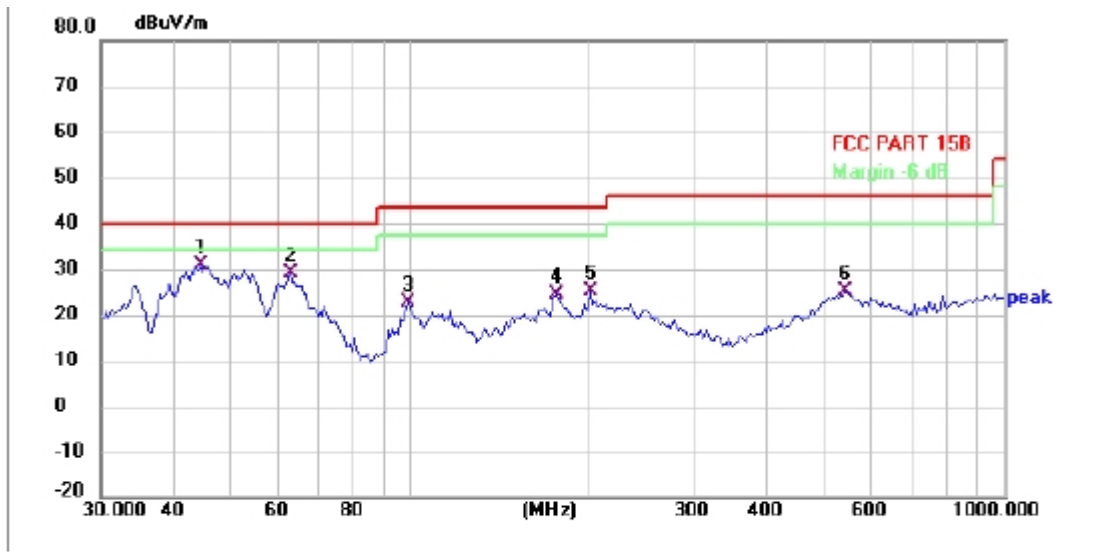


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	54.517	38.27	-16.88	21.39	40.00	-18.61	QP	P	
2	95.649	45.95	-19.24	26.71	43.50	-16.79	QP	P	
3 *	208.658	52.09	-18.17	33.92	43.50	-9.58	QP	P	
4	270.616	40.69	-16.66	24.03	46.00	-21.97	QP	P	
5	412.539	35.46	-14.17	21.29	46.00	-24.71	QP	P	
6	633.328	37.00	-9.94	27.06	46.00	-18.94	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 *	44.154	47.32	-16.39	30.93	40.00	-9.07	QP	P	
2	62.743	47.68	-18.54	29.14	40.00	-10.86	QP	P	
3	99.069	41.36	-18.63	22.73	43.50	-20.77	QP	P	
4	176.275	45.23	-20.66	24.57	43.50	-18.93	QP	P	
5	201.454	43.62	-18.35	25.27	43.50	-18.23	QP	P	
6	538.811	36.74	-11.57	25.17	46.00	-20.83	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





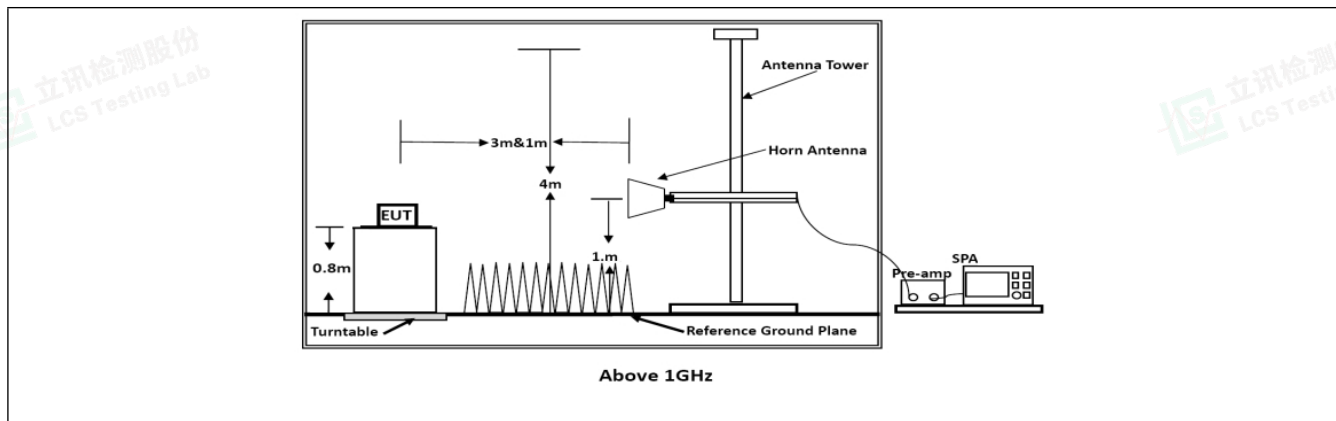
4.3 Radiated emissions (Above 1GHz)

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:	23.8 °C	Humidity:	52.5 %
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:

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

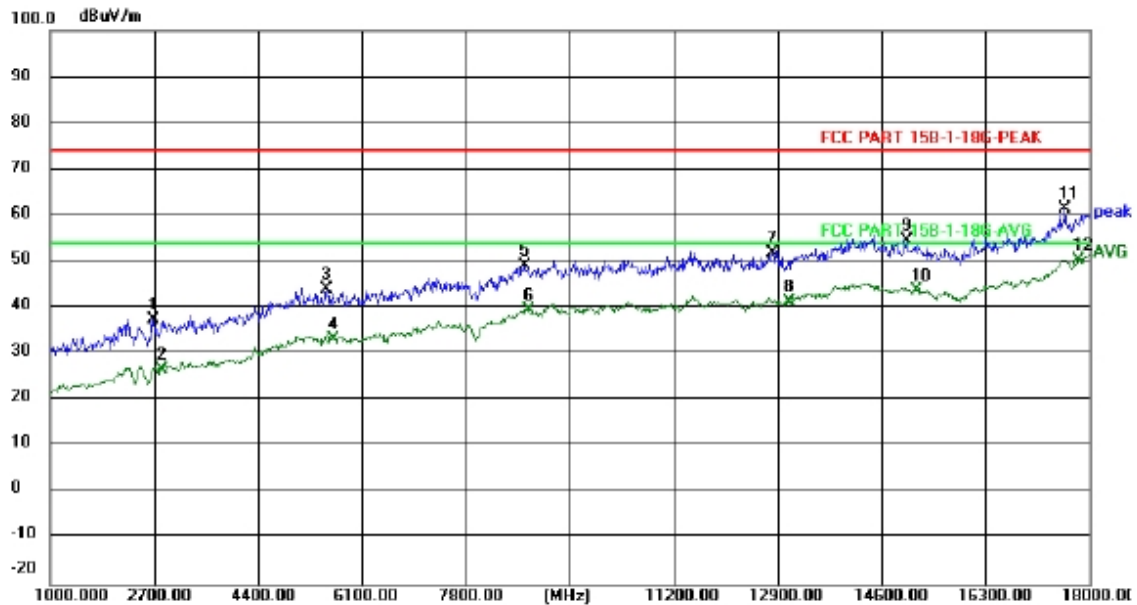
Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	





4.3.4 Test Data:

TM1 / Polarization: Horizontal

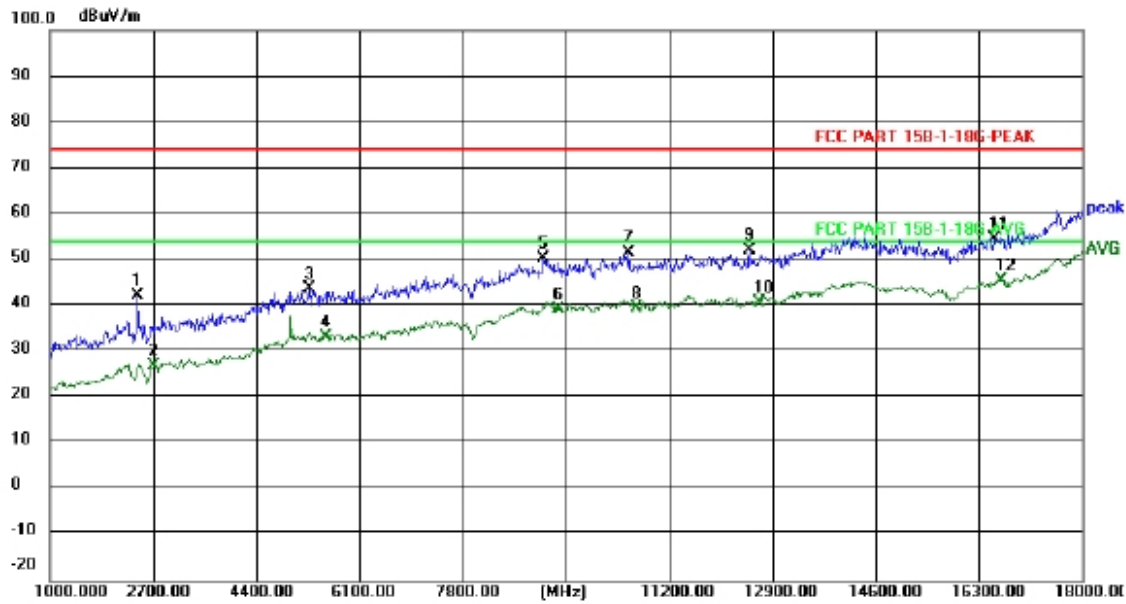


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2683.000	48.06	-10.55	37.51	74.00	-36.49	peak	P
2	2819.000	36.31	-9.80	26.51	54.00	-27.49	AVG	P
3	5522.000	46.29	-2.12	44.17	74.00	-29.83	peak	P
4	5624.000	35.63	-2.46	33.17	54.00	-20.83	AVG	P
5	8752.000	45.17	4.07	49.24	74.00	-24.76	peak	P
6	8820.000	35.38	4.21	39.59	54.00	-14.41	AVG	P
7	12815.000	45.01	6.72	51.73	74.00	-22.27	peak	P
8	13087.000	34.88	6.39	41.27	54.00	-12.73	AVG	P
9	15008.000	46.09	8.58	54.67	74.00	-19.33	peak	P
10	15178.000	34.89	8.90	43.79	54.00	-10.21	AVG	P
11	17609.000	45.23	16.09	61.32	74.00	-12.68	peak	P
12	17830.000	34.02	16.28	50.30	54.00	-3.70	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	2445.000	53.83	-11.53	42.30	74.00	-31.70	peak	P
2	2717.000	37.45	-10.58	26.87	54.00	-27.13	AVG	P
3	5267.000	47.39	-3.64	43.75	74.00	-30.25	peak	P
4	5539.000	36.58	-3.25	33.33	54.00	-20.67	AVG	P
5	9126.000	48.19	2.10	50.29	74.00	-23.71	peak	P
6	9364.000	36.77	2.49	39.26	54.00	-14.74	AVG	P
7	10537.000	46.97	4.52	51.49	74.00	-22.51	peak	P
8	10656.000	34.75	4.74	39.49	54.00	-14.51	AVG	P
9	12526.000	45.69	6.45	52.14	74.00	-21.86	peak	P
10	12679.000	34.52	6.38	40.90	54.00	-13.10	AVG	P
11	16555.000	45.09	9.55	54.64	74.00	-19.36	peak	P
12	16674.000	35.45	10.02	45.47	54.00	-8.53	AVG	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 LCSA08134228E.docx

6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

Refer to Appendix - EUT Photos for LCSA08134228E.docx

--- End of Report ---

