

### 3.8. Conducted Emission

### Limit

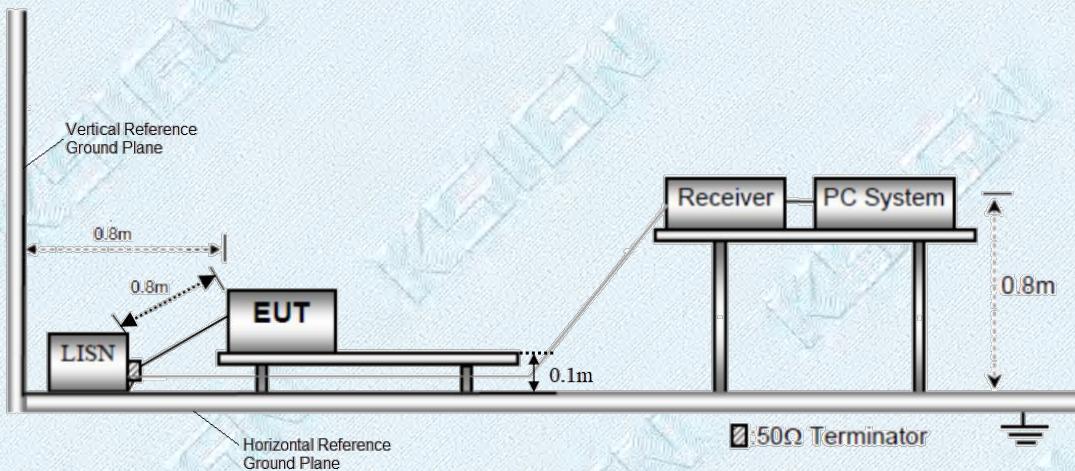
## Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB $\mu$ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

### Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

## Test Configuration



## **Test Procedure**

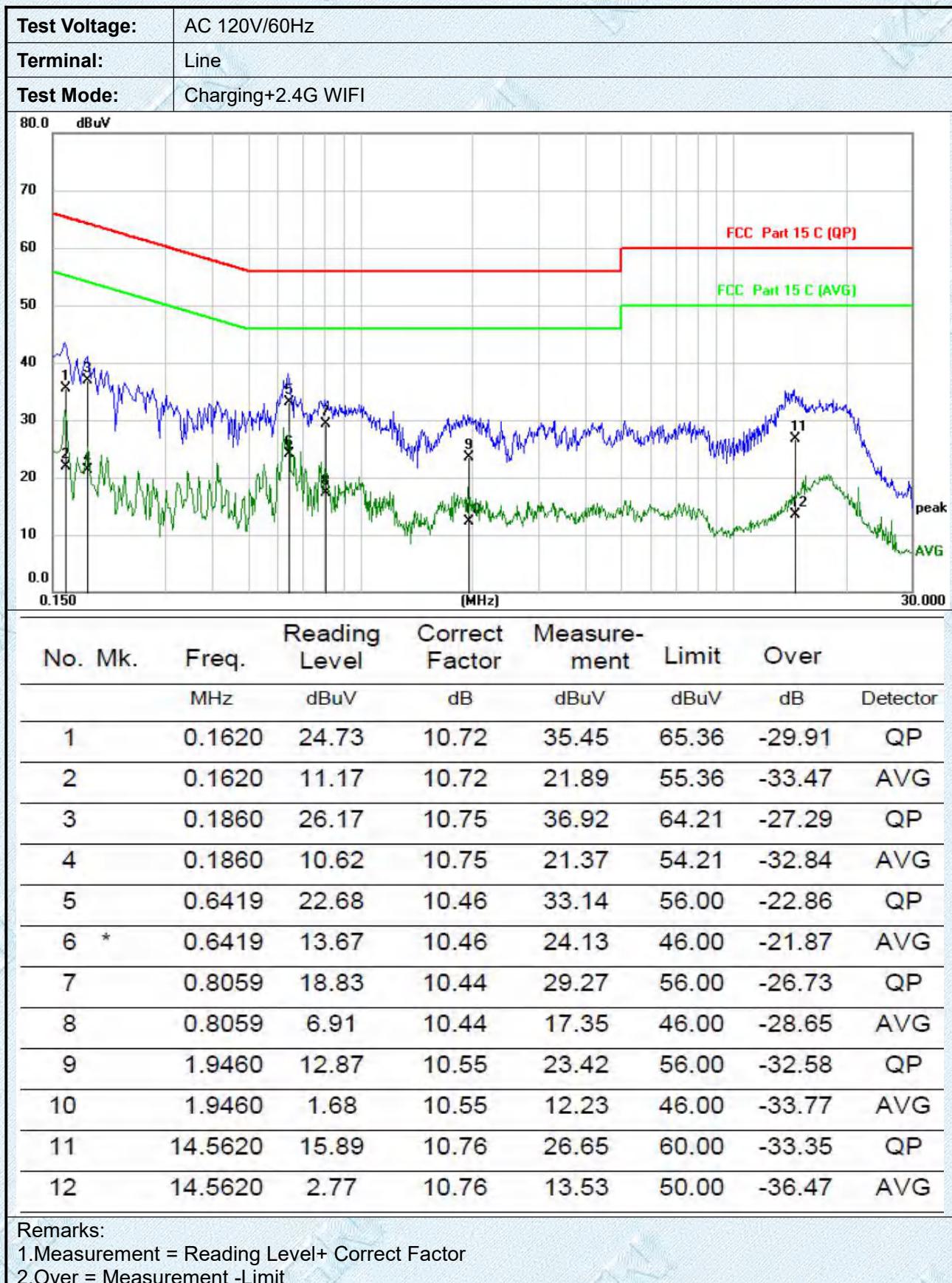
1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 0.1m above the conducting ground plane. The vertical conducting plane was located 80 cm to the rear of the EUT. All other surfaces of EUT were at least 0.8m from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment.  
The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

### **Test Mode:**

Please refer to the clause 2.2.

## Test Results

Pre-scan 802.11b/g/n(HT20/HT40) modulation, and found the 802.11n20 modulation 2412MHz which it is worse case, so only show the test data for worse case.



<b>Test Voltage:</b>	AC 120V/60Hz						
<b>Terminal:</b>	Neutral						
<b>Test Mode:</b>	Charging+WIFI						
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB	dBuV	dBuV	dB
1		0.2540	21.31	10.69	32.00	61.63	-29.63
2		0.2540	7.10	10.69	17.79	51.63	-33.84
3		0.5420	20.01	10.49	30.50	56.00	-25.50
4		0.5420	11.58	10.49	22.07	46.00	-23.93
5		0.6380	27.28	10.45	37.73	56.00	-18.27
6	*	0.6380	19.46	10.45	29.91	46.00	-16.09
7		0.7940	19.24	10.43	29.67	56.00	-26.33
8		0.7940	8.69	10.43	19.12	46.00	-26.88
9		1.2579	12.72	10.48	23.20	56.00	-32.80
10		1.2579	2.74	10.48	13.22	46.00	-32.78
11		18.2420	18.84	10.84	29.68	60.00	-30.32
12		18.2420	7.18	10.84	18.02	50.00	-31.98
<b>Remarks:</b>							
1.Measurement = Reading Level+ Correct Factor							
2.Over = Measurement -Limit							

## 4. EUT TEST PHOTOS

Radiated Measurement (Below 1GHz)



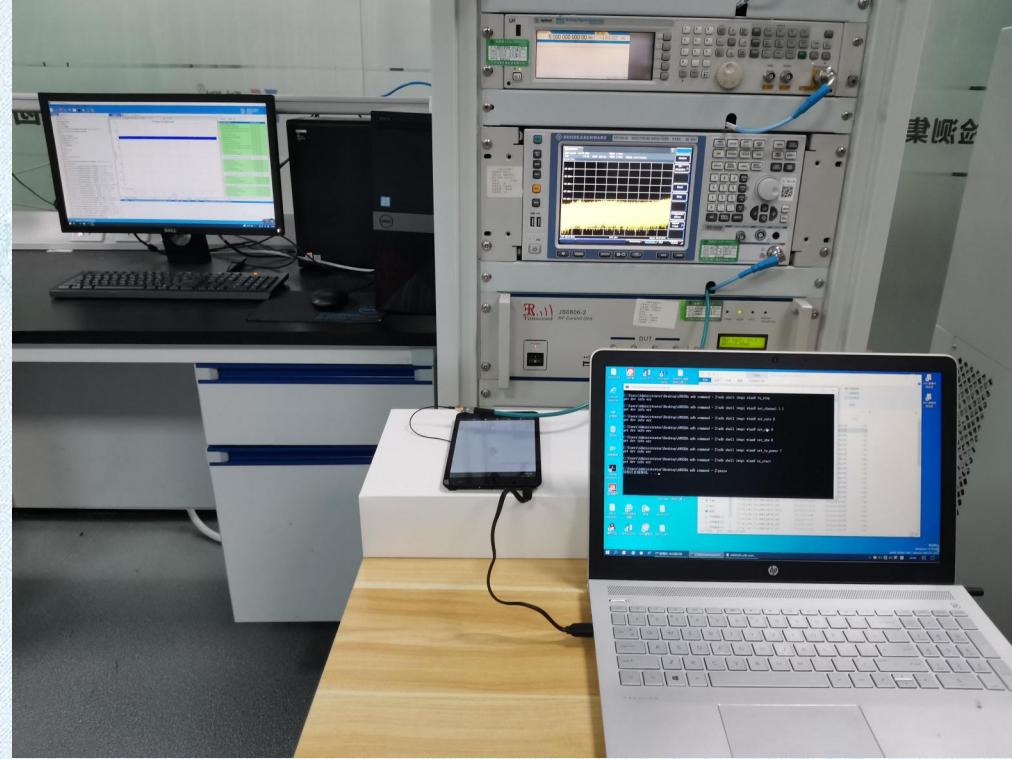
Radiated Measurement (Above 1GHz)



## CONDUCTED EMISSION TEST SETUP



RF Conducted



TRF No. Part 15 Subpart C Section 15.247\_R1

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel : +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail : [info@gdksign.cn](mailto:info@gdksign.cn) Web: [www.gdksign.com](http://www.gdksign.com)

## 5.PHOTOGRAPHS OF EUT CONSTRUCTIONAL

### External Photographs



TRF No. Part 15 Subpart C Section 15.247\_R1

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

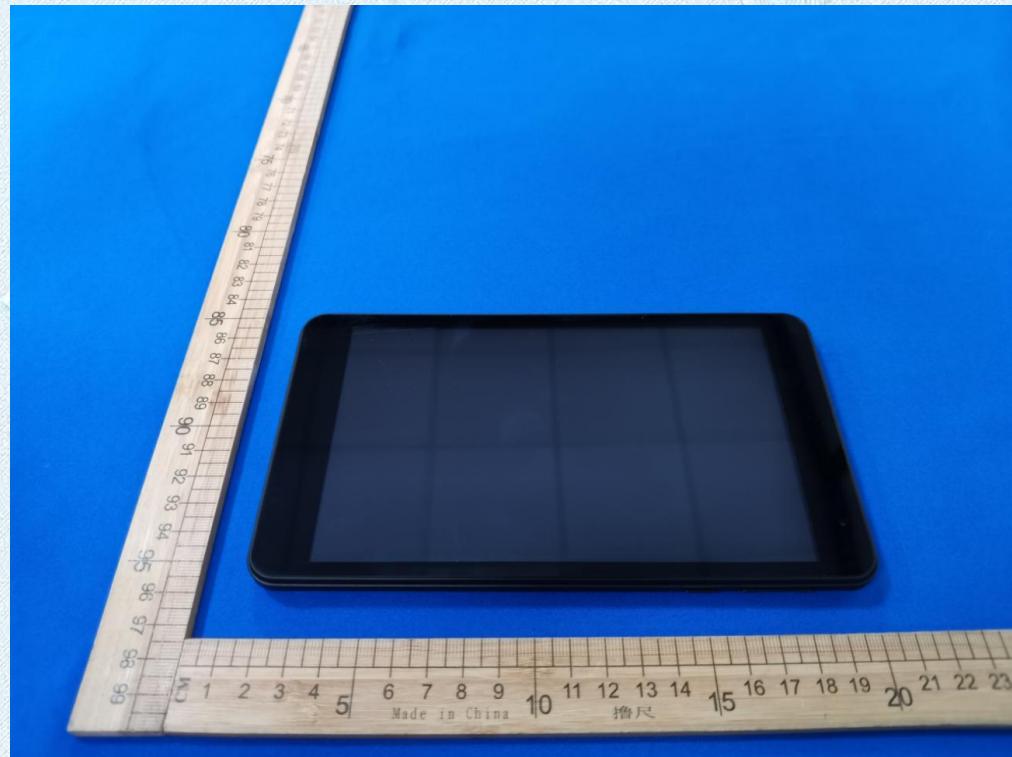
Tel : +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail : [info@gdksign.cn](mailto:info@gdksign.cn) Web: [www.gdksign.com](http://www.gdksign.com)



TRF No. Part 15 Subpart C Section 15.247\_R1

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel : +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail : [info@gdksign.cn](mailto:info@gdksign.cn) Web: [www.gdksign.com](http://www.gdksign.com)



TRF No. Part 15 Subpart C Section 15.247\_R1

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel : +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail : [info@gdksign.cn](mailto:info@gdksign.cn) Web: [www.gdksign.com](http://www.gdksign.com)