

# FCC Test Report

**Applicant** : Shenzhen Qianyan Technology LTD

**Address** : No.3301,Block C,Section 1,Chuangzhi  
Yuncheng Building,Liuxian Avenue,Xili  
Community, Xili Street, Nanshan District,  
Shenzhen, 518000, China

**Product Name** : Govee RGBICWW Floor Lamp Pro

**Report Date** : Jul. 15, 2024



**Shenzhen Anbotek Compliance Laboratory Limited**

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

Code: AB-RF-05-b



Hotline

400-003-0500

www.anbotek.com.cn



# Contents

- 1. General Information ..... 5
  - 1.1. Client Information ..... 5
  - 1.2. Description of Device (EUT) ..... 5
  - 1.3. Auxiliary Equipment Used During Test ..... 6
  - 1.4. Description of Test Configuration ..... 6
  - 1.5. Description Of Test Setup ..... 7
  - 1.6. Test Equipment List ..... 8
  - 1.7. Measurement Uncertainty ..... 10
  - 1.8. Description of Test Facility ..... 10
- 2. Summary of Test Results ..... 11
- 3. Conducted Emission Test ..... 12
  - 3.1. Test Standard and Limit ..... 12
  - 3.2. Test Setup ..... 12
  - 3.3. Test Procedure ..... 12
  - 3.4. Test Data ..... 12
- 4. Radiation Spurious Emission and Band Edge ..... 15
  - 4.1. Test Standard and Limit ..... 15
  - 4.2. Test Setup ..... 15
  - 4.3. Test Procedure ..... 16
  - 4.4. Test Data ..... 17
- 5. Antenna Requirement ..... 23
  - 5.1. Test Standard and Requirement ..... 23
  - 5.2. Antenna Connected Construction ..... 23
- APPENDIX I -- TEST SETUP PHOTOGRAPH ..... 24
- APPENDIX II -- EXTERNAL PHOTOGRAPH ..... 24
- APPENDIX III -- INTERNAL PHOTOGRAPH ..... 24



# TEST REPORT

Applicant : Shenzhen Qianyan Technology LTD  
Manufacturer : Shenzhen Qianyan Technology LTD  
Product Name : Govee RGBICWW Floor Lamp Pro  
Test Model No. : H6079  
Reference Model No. : N/A  
Trade Mark : Govee  
Rating(s) : Input: 12V== 5A

**Test Standard(s) : FCC Part15 Subpart C, Section 15.247**

**Test Method(s) : ANSI C63.10: 2020, KDB 558074 D01 15.247 Meas Guidance v05r02**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Dec. 23, 2023

Date of Test

Dec. 23, 2023 ~ May 10, 2024

Prepared By

*Nian xiu Chen*

(Nianxiu Chen)

Approved & Authorized Signer

*Edward Pan*

(Edward Pan)





## Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Jul. 15, 2024

**Note 1:**

This is a Class II application which was based on the original report 18220WC30143901. The difference between the original device and current one described as following:

1. Change a few parts of the main board.
2. Adapter replaced with BI72G-120500-E2.
3. The product input current is changed to 5A.

The changes are not related with the other RF parameters, only conducted emission and radiation spurious emission were retested.



## 1. General Information

### 1.1. Client Information

Applicant	:	Shenzhen Qianyan Technology LTD
Address	:	No.3301,Block C,Section 1,Chuangzhi Yuncheng Building,Liuxian Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, 518000, China
Manufacturer	:	Shenzhen Qianyan Technology LTD
Address	:	No.3301,Block C,Section 1,Chuangzhi Yuncheng Building,Liuxian Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, 518000, China

### 1.2. Description of Device (EUT)

Product Name	:	Govee RGBICWW Floor Lamp Pro
Test Model No.	:	H6079
Reference Model No.	:	N/A
Trade Mark	:	Govee
Test Power Supply	:	AC 120V, 60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Model: BI72G-120500-E2 Input: 100-240V~50/60Hz1.8A Output: 12V= 5A

#### RF Specification

Operation Mode	:	<input checked="" type="checkbox"/> BT BLE
Support Rate	:	<input checked="" type="checkbox"/> 1Mbps <input type="checkbox"/> 2Mbps
Operation Frequency	:	2402~2480MHz
Number of Channel	:	40 Channels
Modulation Type	:	GFSK
Antenna Type	:	FPCB Antenna
Antenna Gain(Peak)	:	5.69dBi

#### Remark:

(1) All of the RF specification are provided by customer.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



### 1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
--	--

### 1.4. Description of Test Configuration

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
<b>00</b>	<b>2402</b>	09	2420	18	2438	27	2456	36	2474
01	2404	10	2422	<b>19</b>	<b>2440</b>	28	2458	37	2476
02	2406	11	2424	20	2442	29	2460	38	2478
03	2408	12	2426	21	2444	30	2462	<b>39</b>	<b>2480</b>
04	2410	13	2428	22	2446	31	2464		
05	2412	14	2430	23	2448	32	2466		
06	2414	15	2432	24	2450	33	2468		
07	2416	16	2434	25	2452	34	2470		
08	2418	17	2436	26	2454	35	2472		

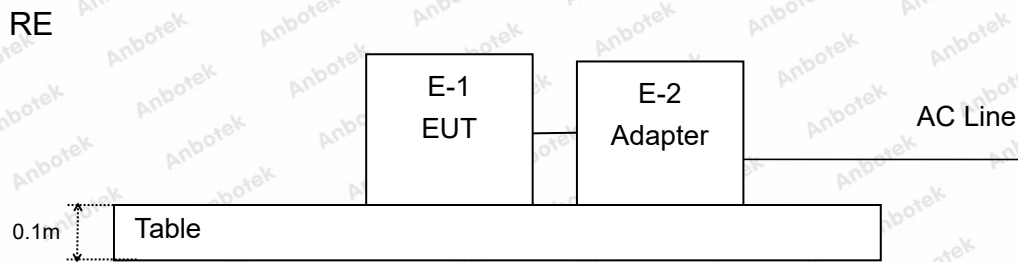
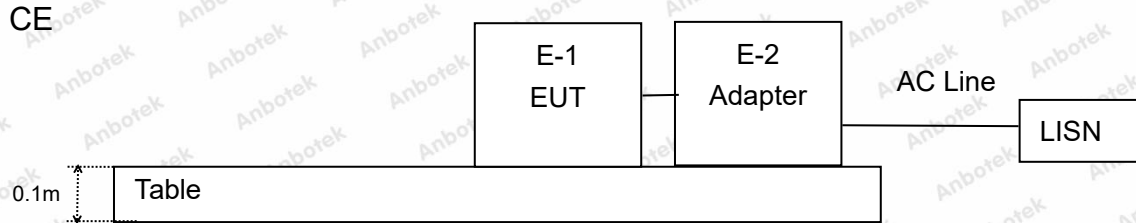
Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT was tested with channel 0, 19 and 39.





## 1.5. Description Of Test Setup



### 1.6. Test Equipment List

Conducted Emission at AC power line						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
2	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Radiation spurious (above 1GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA-0118 G-45	SKET-PA-002	2024-01-17	2025-01-16
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/
5	Horn Antenna	A-INFO	LB-180400-KF	J2110606 28	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24





## Radiation spurious (below 1GHz)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/



### 1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.



## 2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
<b>Remark:</b> "N/A" is an abbreviation for Not Applicable.		





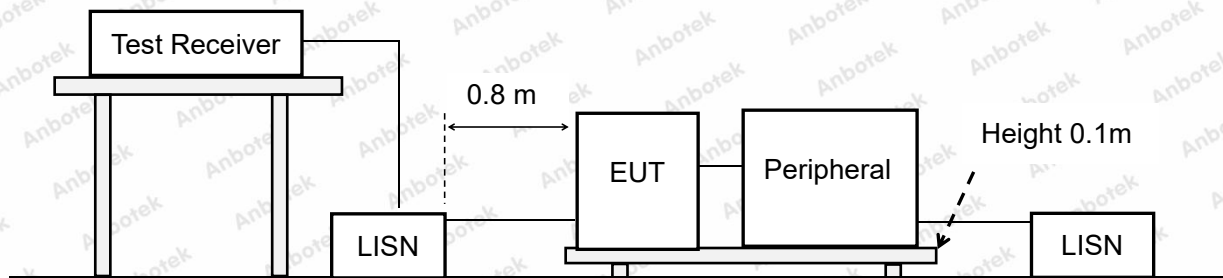
## 3. Conducted Emission Test

### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

**Remark:**(1) \*Decreasing linearly with logarithm of the frequency.  
 (2) The lower limit shall apply at the transition frequency.

### 3.2. Test Setup



### 3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

### 3.4. Test Data

During the test, pre-scan all modes, only the worst case is recorded in the report.

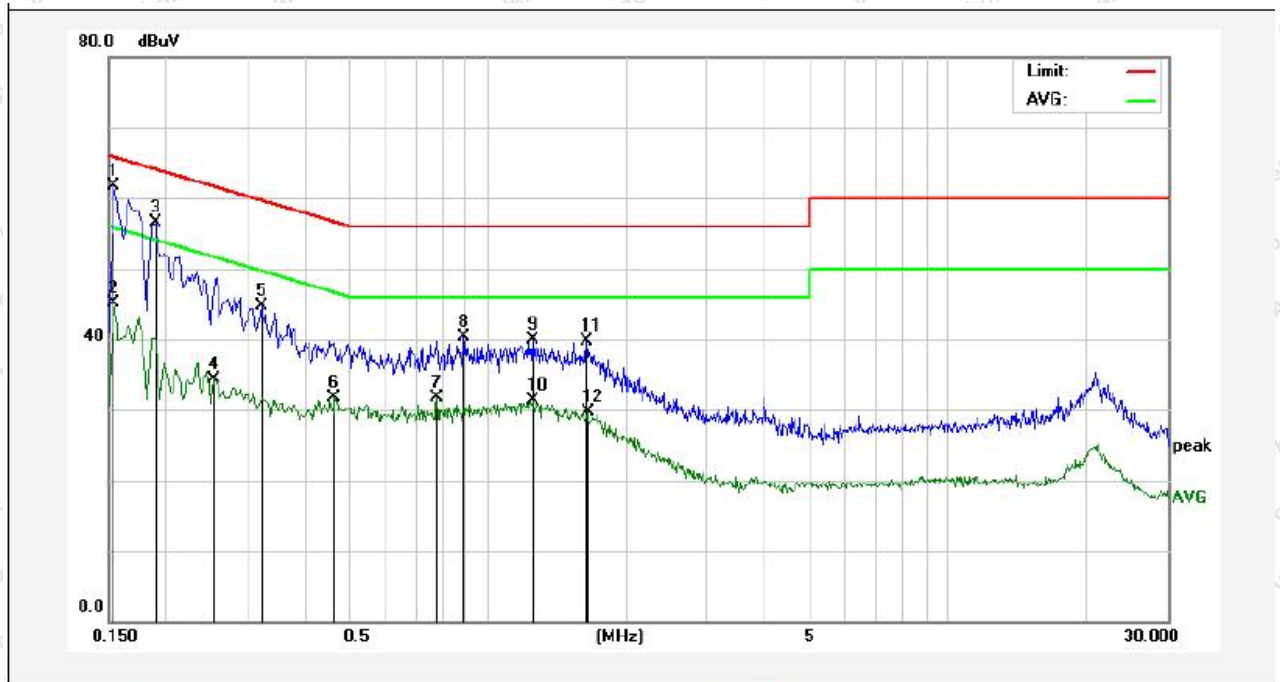
AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

Please to see the following pages.



### Conducted Emission Test Data

Test Site: 1# Shielded Room  
 Operating Condition: 2480MHz  
 Test Specification: AC 120V, 60Hz for Adapter  
 Comment: Live Line  
 Temp.(°C)/Hum.(%RH): 25.3°C/48%RH



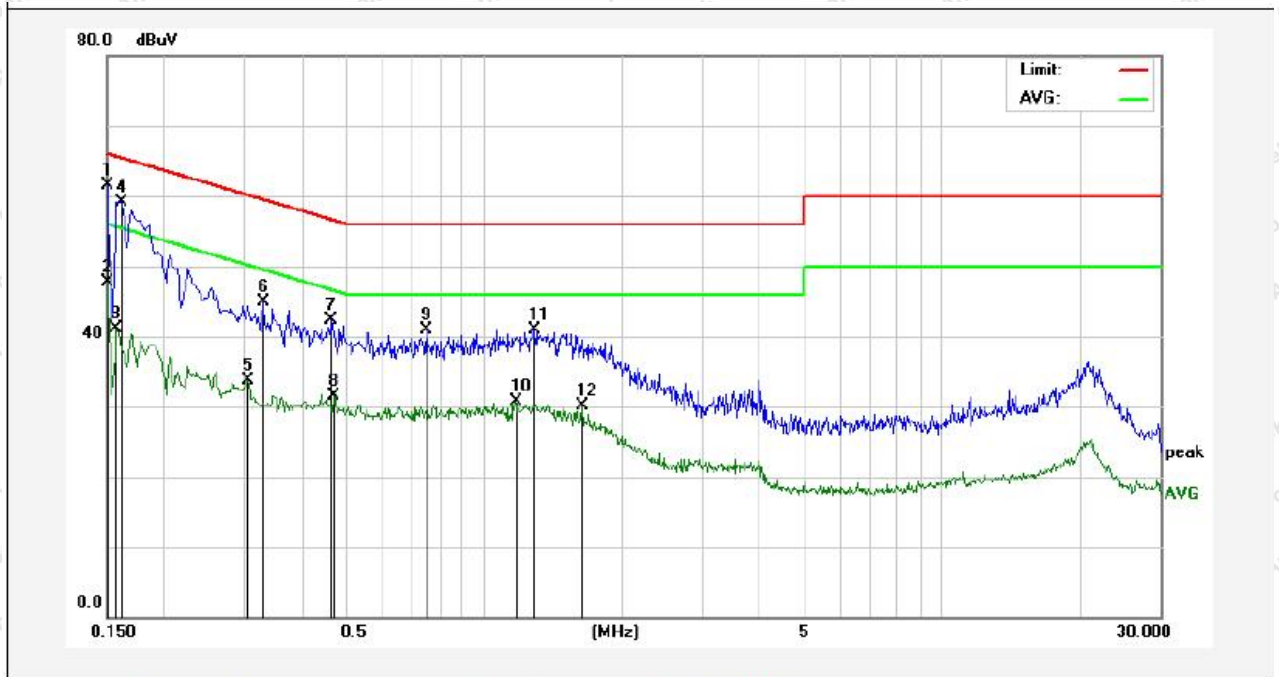
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	43.94	17.83	61.77	65.78	-4.01	QP	
2	0.1539	27.30	17.83	45.13	55.78	-10.65	AVG	
3	0.1900	38.63	17.82	56.45	64.03	-7.58	QP	
4	0.2540	16.43	17.84	34.27	51.62	-17.35	AVG	
5	0.3220	26.77	17.84	44.61	59.65	-15.04	QP	
6	0.4660	13.85	17.85	31.70	46.58	-14.88	AVG	
7	0.7780	13.74	17.87	31.61	46.00	-14.39	AVG	
8	0.8860	22.46	17.86	40.32	56.00	-15.68	QP	
9	1.2540	22.14	17.86	40.00	56.00	-16.00	QP	
10	1.2540	13.50	17.86	31.36	46.00	-14.64	AVG	
11	1.6377	21.77	17.85	39.62	56.00	-16.38	QP	
12	1.6457	11.89	17.85	29.74	46.00	-16.26	AVG	





### Conducted Emission Test Data

Test Site: 1# Shielded Room  
 Operating Condition: 2480MHz  
 Test Specification: AC 120V, 60Hz for Adapter  
 Comment: Neutral Line  
 Temp.(°C)/Hum.(%RH): 25.3°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1499	43.59	17.82	61.41	66.00	-4.59	QP	
2	0.1499	29.94	17.82	47.76	56.00	-8.24	AVG	
3	0.1580	23.23	17.83	41.06	55.56	-14.50	AVG	
4	0.1620	41.35	17.83	59.18	65.36	-6.18	QP	
5	0.3059	15.78	17.84	33.62	50.08	-16.46	AVG	
6	0.3300	27.08	17.83	44.91	59.45	-14.54	QP	
7	0.4660	24.54	17.85	42.39	56.58	-14.19	QP	
8	0.4699	13.62	17.85	31.47	46.52	-15.05	AVG	
9	0.7500	23.04	17.87	40.91	56.00	-15.09	QP	
10	1.1699	12.77	17.85	30.62	46.00	-15.38	AVG	
11	1.2940	23.10	17.86	40.96	56.00	-15.04	QP	
12	1.6419	12.16	17.85	30.01	46.00	-15.99	AVG	





## 4. Radiation Spurious Emission and Band Edge

### 4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
-		74.0	Peak	3	

**Remark:**

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

### 4.2. Test Setup

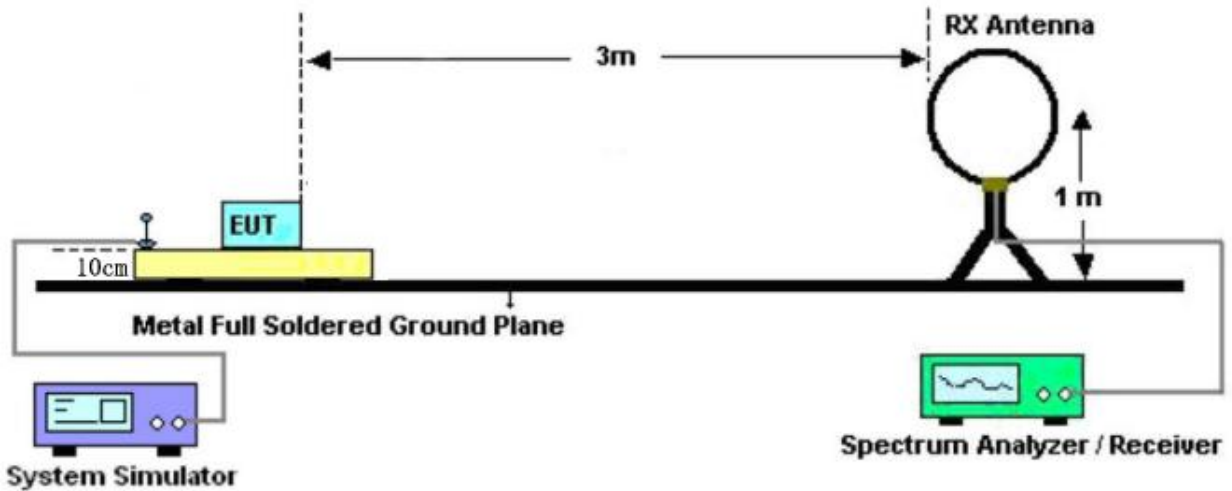


Figure 1. Below 30MHz



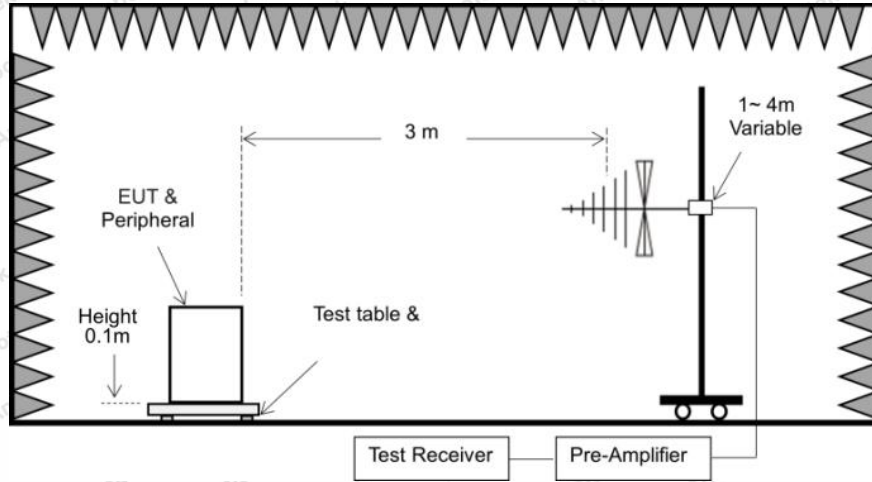


Figure 2. 30MHz to 1GHz

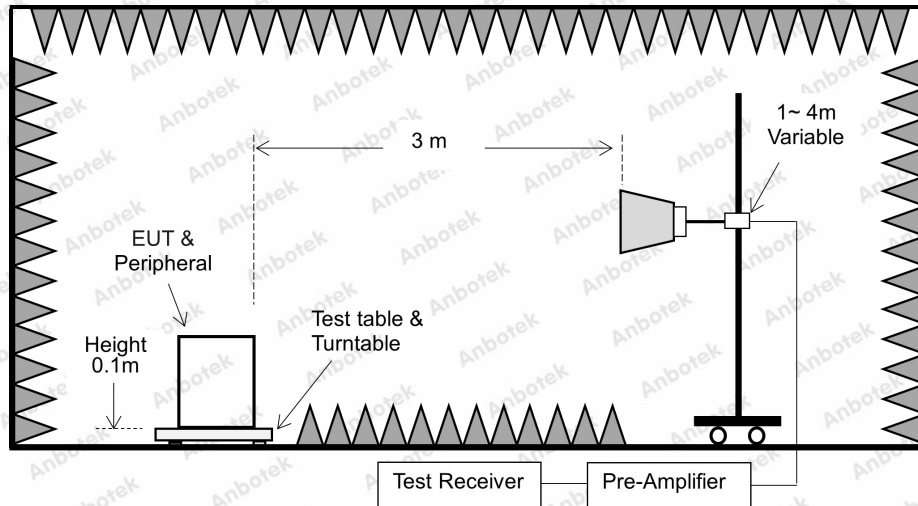


Figure 3. Above 1 GHz

### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.1m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 0.1m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for





maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector = Quasi-Peak, Trace mode = Max hold, Sweep = auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9kHz, VBW = 30kHz, Detector = Quasi-Peak, Trace mode = Max hold, Sweep = auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector = Quasi-Peak, Trace mode = Max hold, Sweep = auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector = Peak, Trace mode = Max hold, Sweep = auto couple.

For average measurement:

-VBW = 10Hz, When duty cycle is no less than 98 percent

-VBW  $\geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.4 duty cycle.

#### 4.4. Test Data

##### PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

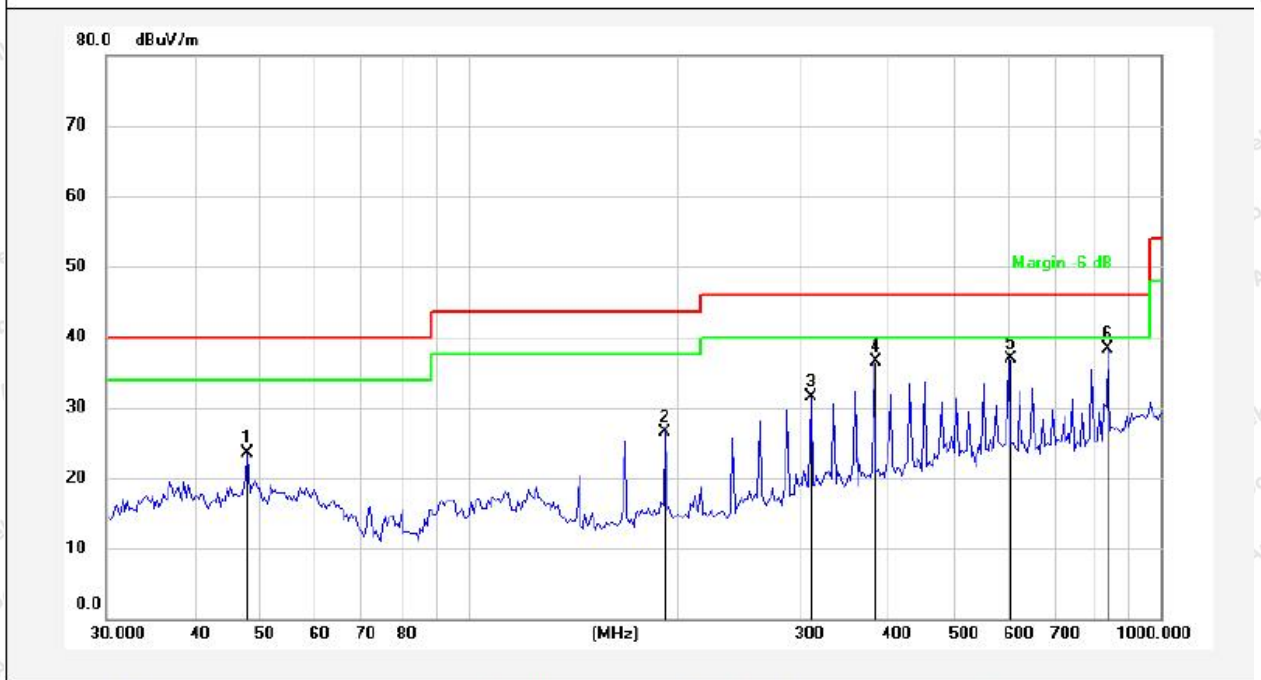
During the test, pre-scan all modes, only the worst case is recorded in the report.





**Test Results (30~1000MHz)**

Test Mode: 2480MHz  
 Power Source: AC 120V, 60Hz for Adapter  
 Polarization: Horizontal  
 Temp.(°C)/Hum.(%RH): 25.3°C/48%RH

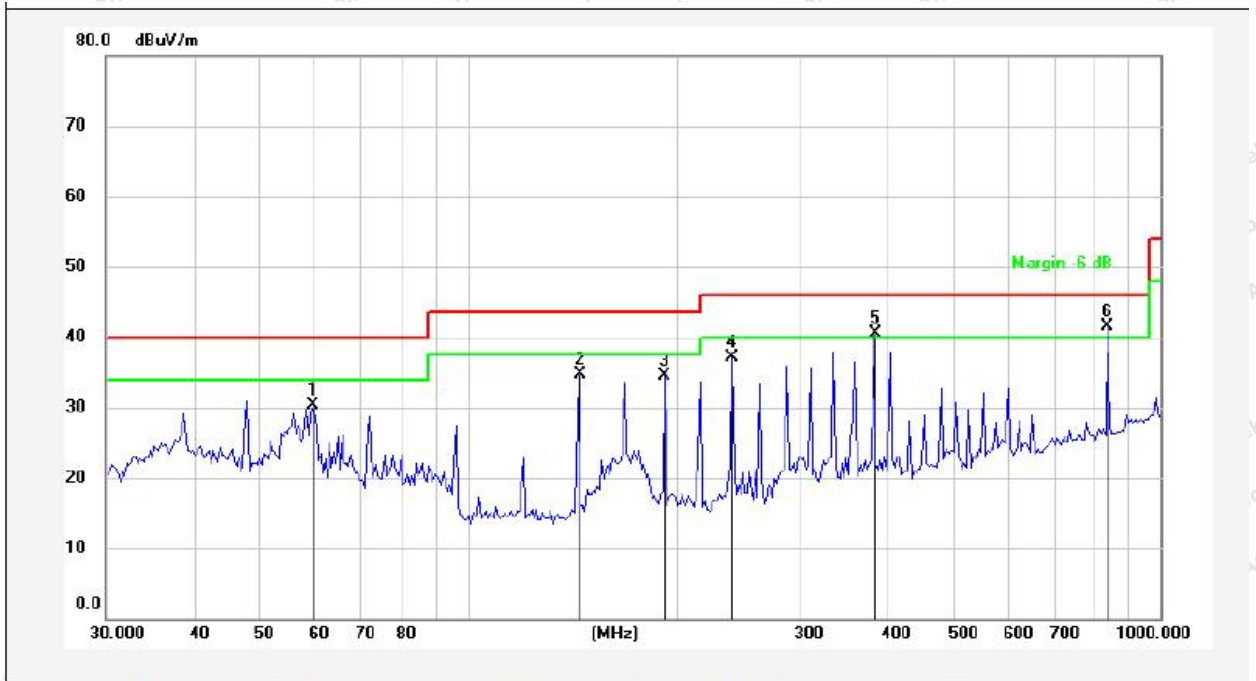


No.	Freq. (MHz)	Reading (dBuV)	Factor ( )	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	47.9938	40.69	-17.11	23.58	40.00	-16.42	QP			
2	192.4182	45.23	-18.63	26.60	43.50	-16.90	QP			
3	312.1792	45.96	-14.55	31.41	46.00	-14.59	QP			
4	385.2805	49.22	-12.77	36.45	46.00	-9.55	QP			
5	603.5392	45.06	-8.23	36.83	46.00	-9.17	QP			
6	839.1816	43.67	-5.35	38.32	46.00	-7.68	QP			



**Test Results (30~1000MHz)**

Test Mode: 2480MHz  
 Power Source: AC 120V, 60Hz for Adapter  
 Polarization: Vertical  
 Temp.(°C)/Hum.(%RH): 25.3°C/48%RH



No.	Freq. (MHz)	Reading (dBUV)	Factor ( )	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	59.6492	47.93	-17.68	30.25	40.00	-9.75	QP			
2	144.3348	56.01	-21.25	34.76	43.50	-8.74	QP			
3	192.4182	53.14	-18.63	34.51	43.50	-8.99	QP			
4	240.8300	53.47	-16.46	37.01	46.00	-8.99	QP			
5	385.2805	53.28	-12.77	40.51	46.00	-5.49	QP			
6	839.1816	46.76	-5.35	41.41	46.00	-4.59	QP			



**Test Results (1GHz-25GHz)**

Test Mode: CH00				Test channel: Lowest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	27.12	15.27	42.39	74.00	-31.61	Vertical
7206.00	27.41	18.09	45.50	74.00	-28.50	Vertical
9608.00	27.80	23.76	51.56	74.00	-22.44	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	26.90	15.27	42.17	74.00	-31.83	Horizontal
7206.00	27.44	18.09	45.53	74.00	-28.47	Horizontal
9608.00	27.54	23.76	51.30	74.00	-22.70	Horizontal
12010.00	*			74.00		Horizontal
14412.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	15.39	15.27	30.66	54.00	-23.34	Vertical
7206.00	16.46	18.09	34.55	54.00	-19.45	Vertical
9608.00	17.27	23.76	41.03	54.00	-12.97	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	15.23	15.27	30.50	54.00	-23.50	Horizontal
7206.00	16.47	18.09	34.56	54.00	-19.44	Horizontal
9608.00	17.05	23.76	40.81	54.00	-13.19	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal





**Test Results (1GHz-25GHz)**

Test Mode: CH19				Test channel: Middle		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	26.67	15.42	42.09	74.00	-31.91	Vertical
7320.00	27.38	18.02	45.40	74.00	-28.60	Vertical
9760.00	27.30	23.80	51.10	74.00	-22.90	Vertical
12200.00	*			74.00		Vertical
14640.00	*			74.00		Vertical
4880.00	26.71	15.42	42.13	74.00	-31.87	Horizontal
7320.00	27.31	18.02	45.33	74.00	-28.67	Horizontal
9760.00	27.26	23.80	51.06	74.00	-22.94	Horizontal
12200.00	*			74.00		Horizontal
14640.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	15.48	15.42	30.90	54.00	-23.10	polarization
7320.00	16.32	18.02	34.34	54.00	-19.66	Vertical
9760.00	17.12	23.80	40.92	54.00	-13.08	Vertical
12200.00	*			54.00		Vertical
14640.00	*			54.00		Vertical
4880.00	15.34	15.42	30.76	54.00	-23.24	Vertical
7320.00	16.82	18.02	34.84	54.00	-19.16	Horizontal
9760.00	17.35	23.80	41.15	54.00	-12.85	Horizontal
12200.00	*			54.00		Horizontal
14640.00	*			54.00		Horizontal



**Test Results (1GHz-25GHz)**

Test Mode: CH39				Test channel: Highest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	26.80	15.58	42.38	74.00	-31.62	Vertical
7440.00	27.54	17.93	45.47	74.00	-28.53	Vertical
9920.00	28.00	23.83	51.83	74.00	-22.17	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	26.85	15.58	42.43	74.00	-31.57	Horizontal
7440.00	27.52	17.93	45.45	74.00	-28.55	Horizontal
9920.00	27.64	23.83	51.47	74.00	-22.53	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	16.60	15.58	32.18	54.00	-21.82	Vertical
7440.00	17.59	17.93	35.52	54.00	-18.48	Vertical
9920.00	17.77	23.83	41.60	54.00	-12.40	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	16.52	15.58	32.10	54.00	-21.90	Horizontal
7440.00	17.62	17.93	35.55	54.00	-18.45	Horizontal
9920.00	17.50	23.83	41.33	54.00	-12.67	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

Remark:

1.Result =Reading + Factor

2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



## 5. Antenna Requirement

### 5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	<p>1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.</p>

### 5.2. Antenna Connected Construction

The antenna is a **FPCB Antenna** which permanently attached, and the best case gain of the antenna is 5.69dBi . It complies with the standard requirement.





## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph

## **APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

