

# FCC TEST REPORT

**Client Name** : Shenzhen Intellirocks Tech. Co., Ltd.

**Client Address** : No. 2901-2904, 3002, Block C, Section 1,  
Chuangzhi Yuncheng Building, Liuxian  
Avenue, Xili Community, Xili Street, Nanshan  
District, Shenzhen, China

**Product Name** : Govee DreamView G1S Pro Gaming Light

**Report Date** : Nov. 25, 2022

**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 Modes .....	6
1.5. List of channels .....	6
1.6. Description Of Test Setup .....	7
1.7. Test Equipment List .....	8
1.8. Measurement Uncertainty .....	9
1.9. Description of Test Facility .....	9
2. Summary of Test Results .....	10
3. Conducted Emission Test .....	11
3.1. Test Standard and Limit .....	11
3.2. Test Setup .....	11
3.3. Test Procedure .....	11
3.4. Test Data .....	11
4. Radiation Spurious Emission and Band Edge .....	14
4.1. Test Standard and Limit .....	14
4.2. Test Setup .....	14
4.3. Test Procedure .....	15
4.4. Test Data .....	16
5. Maximum Peak Output Power Test .....	22
5.1. Test Standard and Limit .....	22
5.2. Test Setup .....	22
5.3. Test Procedure .....	22
5.4. Test Data .....	22
6. Antenna Requirement .....	23
6.1. Test Standard and Requirement .....	23
6.2. Antenna Connected Construction .....	23
APPENDIX I -- TEST SETUP PHOTOGRAPH .....	24
APPENDIX II -- EXTERNAL PHOTOGRAPH .....	24
APPENDIX III -- INTERNAL PHOTOGRAPH .....	24



# TEST REPORT

Applicant : Shenzhen Intellirocks Tech. Co., Ltd.  
Manufacturer : Shenzhen Intellirocks Tech. Co., Ltd.  
Product Name : Govee DreamView G1S Pro Gaming Light  
Model No. : H604C  
Trade Mark : Govee  
Rating(s) : Input: 12V $\overline{=}$  3A

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

**Test Method(s) : ANSI C63.10: 2020, KDB558074 D01 DTS 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

Jul. 11, 2022

Date of Test

Jul. 11~Nov. 01, 2022

Prepared By

*Nian Xiu Chen*

(Nianxiu Chen)

Approved & Authorized Signer

*Kingkong Jin*

(Kingkong Jin)



## Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Apr. 24, 2022
R01	Reference Note 1	Nov. 25, 2022

### Note 1:

This is a Class II application which was based on the original report 18220WC20020102. The difference between the original device and current one described as following:

1. Changing Adapter to "BI36G-120300-AdU".
2. The lamp belt has added lamp beads.
3. Changing the color of EUT.
4. Changing the model name to "H604C".
5. Changing the Product Name to "Govee DreamView G1S Pro Gaming Light".

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



## 1. General Information

### 1.1. Client Information

Applicant	:	Shenzhen Intellirocks Tech. Co., Ltd.
Address	:	No. 2901-2904, 3002, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen, China
Manufacturer	:	Shenzhen Intellirocks Tech. Co., Ltd.
Address	:	No. 2901-2904, 3002, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen, China
Factory	:	Shenzhen Intellirocks Tech. Co., Ltd.
Address	:	No. 2901-2904, 3002, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen, China

### 1.2. Description of Device (EUT)

Product Name	:	Govee DreamView G1S Pro Gaming Light
Model No.	:	H604C
Trade Mark	:	Govee
Test Power Supply	:	AC 120V, 60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Product Description	Operation Frequency:	BLE: 2402~2480MHz WIFI 2.4G: 802.11b/ g/ n(HT20): 2412-2462MHz
	Number of Channel:	BLE: 40 Channels WIFI 2.4G: 802.11b/ g/ n(HT20): 11 Channels
	Modulation Type:	BLE: GFSK WIFI 2.4G: CCK, DQPSK, DBPSK for DSSS; 64QAM, 16QAM, QPSK, BPSK for OFDM
	Antenna Type:	BLE: FPC Antenna 2.4G WIFI: FPC Antenna
	Antenna Gain(Peak):	BLE: 1.5 dBi(Provide by customer) 2.4G WIFI: 1.5 dBi(Provide by customer)
	Adapter:	M/N: BI36G-120300-AdU Input: 100-240V~ 50/60Hz, 1.2A Output: 12V= 3A
	<b>Remark:</b>	1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) This report is for BLE Module.



### 1.3. Auxiliary Equipment Used During Test

N.A.	:	
------	---	--

### 1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	
Mode 1	CH00	TX Only
Mode 2	CH19	
Mode 3	CH39	

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

### 1.5. List of channels

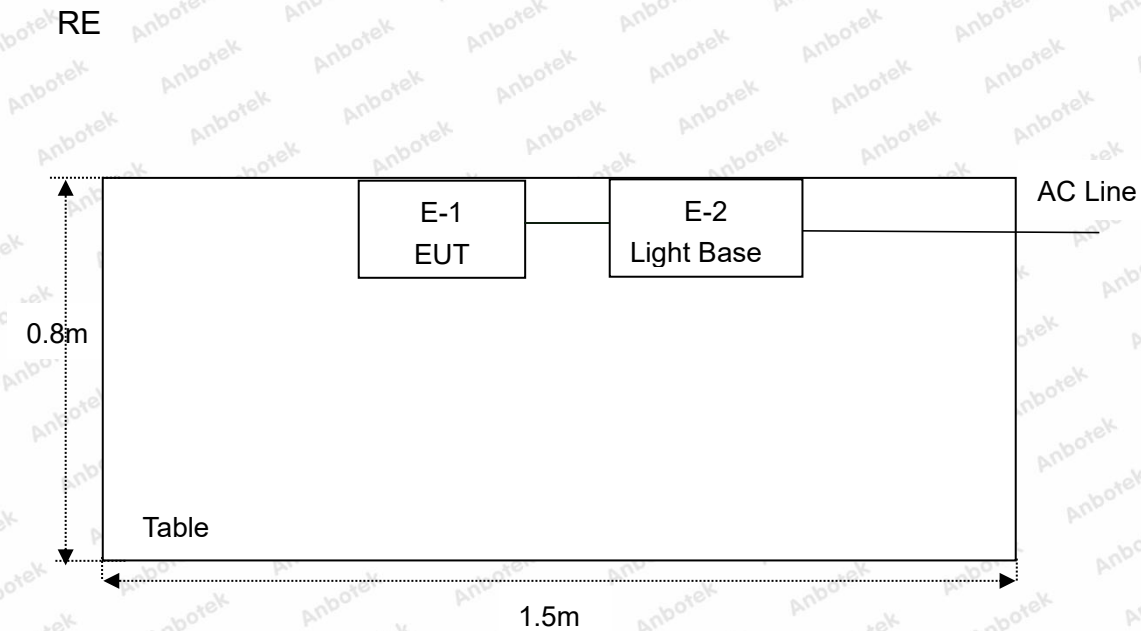
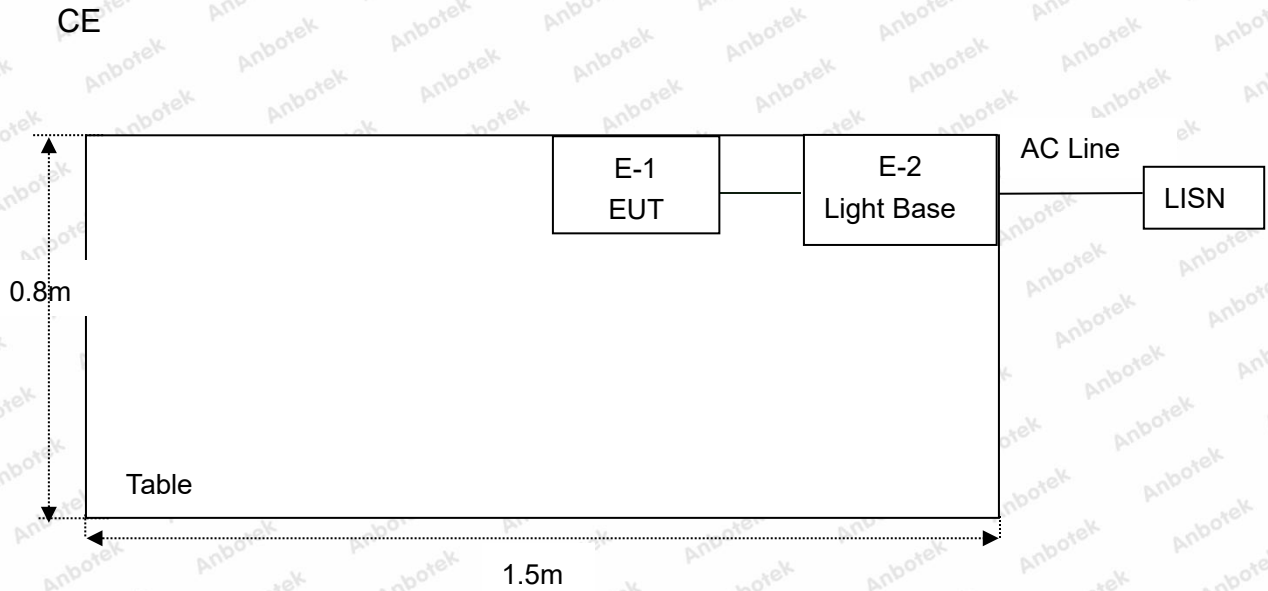
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
00	2402	09	2420	18	2438	27	2456	36	2474
01	2404	10	2422	19	2440	28	2458	37	2476
02	2406	11	2424	20	2442	29	2460	38	2478
03	2408	12	2426	21	2444	30	2462	39	2480
04	2410	13	2428	22	2446	31	2464		
05	2412	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.



## 1.6. Description Of Test Setup



## 1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 23, 2022	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2022	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 13, 2022	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Year
5.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2022	1 Year
6.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 13, 2022	1 Year
7.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	Oct. 13, 2022	1 Year
8.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 23, 2022	1 Year
10.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 23, 2022	1 Year
11.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Oct. 23, 2022	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	Oct. 23, 2022	1 Year
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
14.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 13, 2022	1 Year
15.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 13, 2022	1 Year
16.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 13, 2022	1 Year
17.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2022	1 Year
18.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 19, 2022	1 Year





### 1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

### 1.9. Description of Test Facility

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

#### FCC-Registration No.: 184111

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. 184111.

#### 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.518102



## 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
15.247(b)(3)	Conducted Peak Output Power	PASS
<b>Remark:</b> "N/A" is an abbreviation for Not Applicable.		



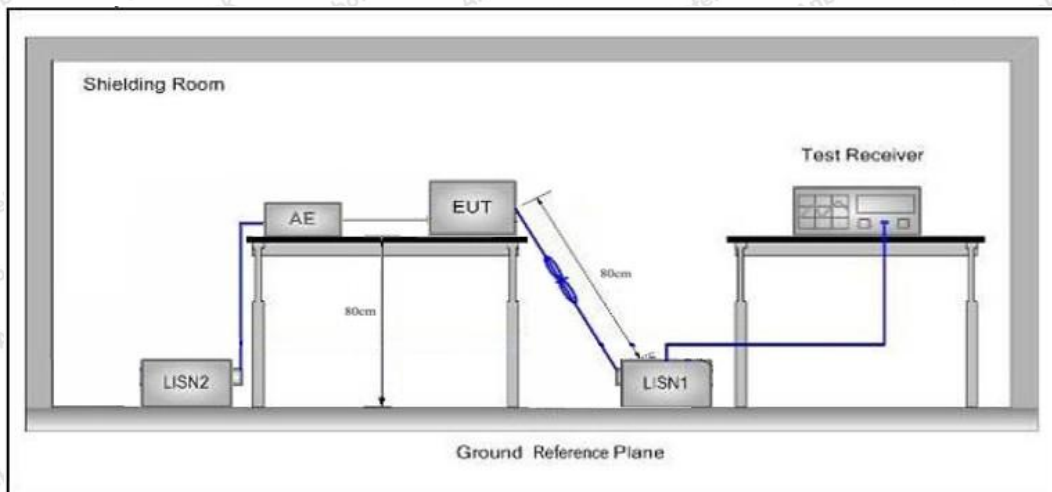
## 3. Conducted Emission Test

### 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.

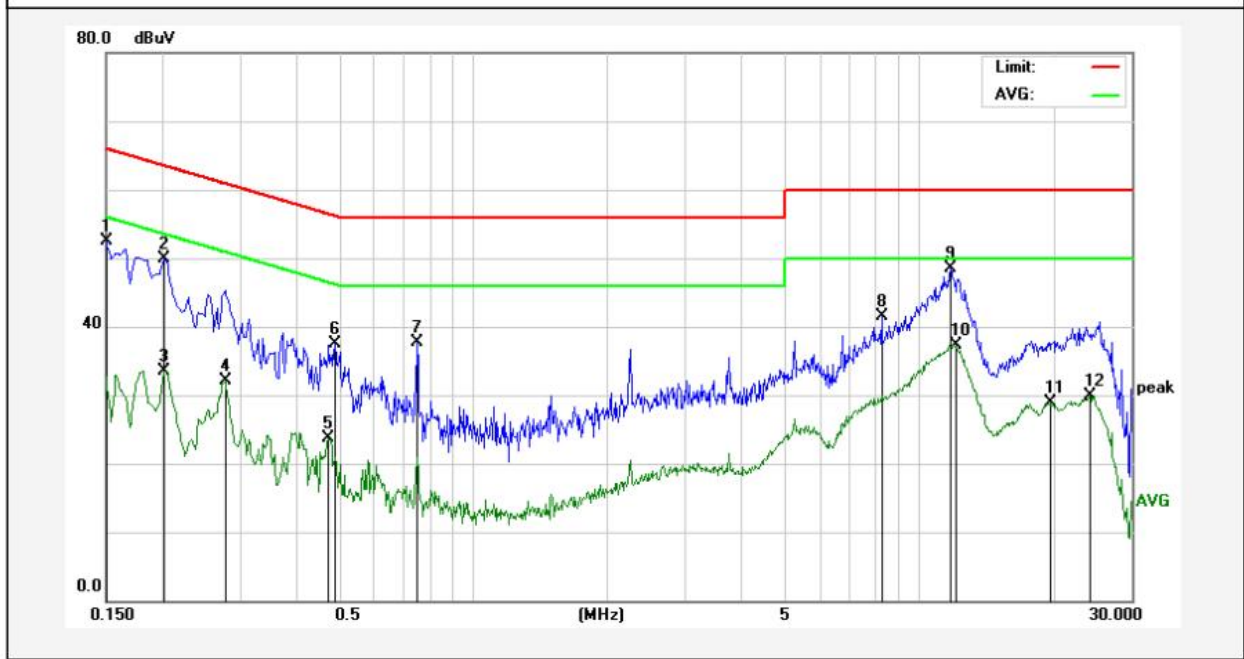
### 3.4. Test Data

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



### Conducted Emission Test Data

Test Site: 1# Shielded Room  
 Operating Condition: Mode 1  
 Test Specification: AC 120V, 60Hz for Adapter  
 Comment: Live Line  
 Tem.: 23.4°C Hum.: 50%

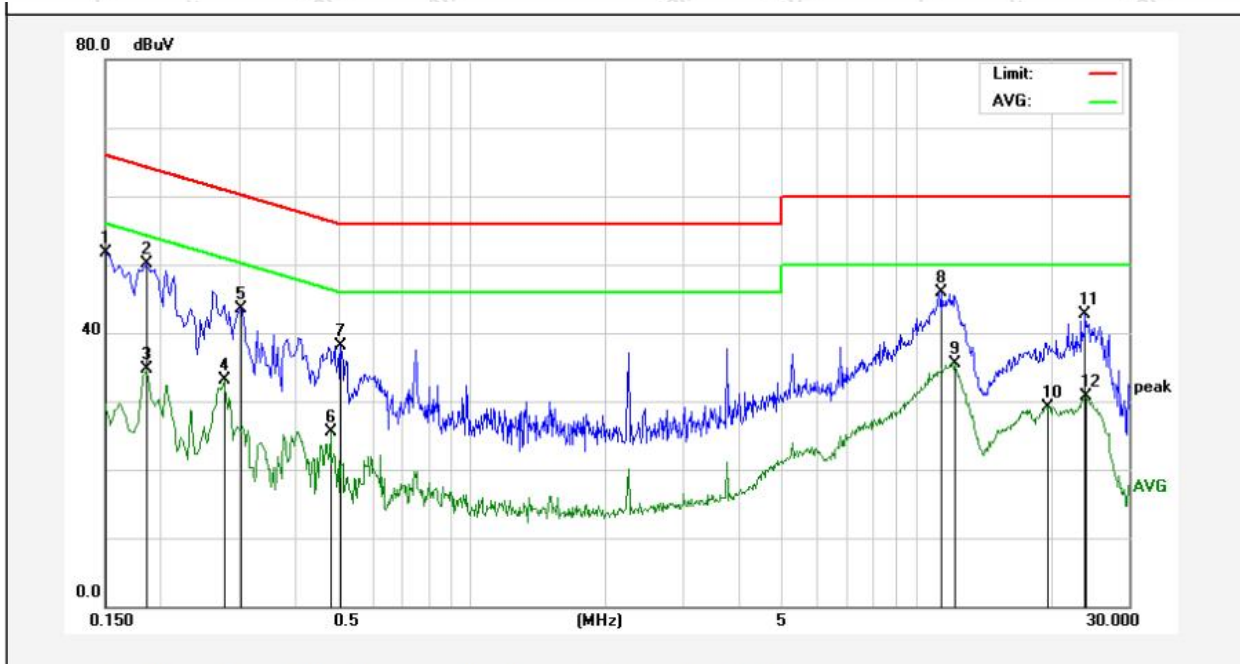


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1499	42.76	9.69	52.45	66.00	-13.55	QP	
2	0.2020	40.23	9.71	49.94	63.52	-13.58	QP	
3	0.2020	23.83	9.71	33.54	53.52	-19.98	AVG	
4	0.2779	22.36	9.72	32.08	50.88	-18.80	AVG	
5	0.4740	14.04	9.75	23.79	46.44	-22.65	AVG	
6	0.4900	27.68	9.76	37.44	56.17	-18.73	QP	
7	0.7500	27.89	9.75	37.64	56.00	-18.36	QP	
8	8.2499	31.62	9.81	41.43	60.00	-18.57	QP	
9	11.7579	38.65	9.89	48.54	60.00	-11.46	QP	
10	12.0819	27.42	9.90	37.32	50.00	-12.68	AVG	
11	19.6539	18.85	10.11	28.96	50.00	-21.04	AVG	
12	24.1940	19.79	10.10	29.89	50.00	-20.11	AVG	



### Conducted Emission Test Data

Test Site: 1# Shielded Room  
 Operating Condition: Mode 1  
 Test Specification: AC 120V, 60Hz for Adapter  
 Comment: Neutral Line  
 Tem.: 23.4°C Hum.: 50%



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit (dBUV)	Over Limit (dB)	Detector	Remark
1	0.1500	42.05	9.69	51.74	65.99	-14.25	QP	
2	0.1860	40.31	9.71	50.02	64.21	-14.19	QP	
3	0.1860	24.98	9.71	34.69	54.21	-19.52	AVG	
4	0.2779	23.44	9.72	33.16	50.88	-17.72	AVG	
5	0.3020	33.75	9.73	43.48	60.19	-16.71	QP	
6	0.4820	15.68	9.75	25.43	46.30	-20.87	AVG	
7	0.5100	28.41	9.76	38.17	56.00	-17.83	QP	
8	11.4220	36.02	9.87	45.89	60.00	-14.11	QP	
9	12.2020	25.63	9.90	35.53	50.00	-14.47	AVG	
10	19.6980	19.06	10.11	29.17	50.00	-20.83	AVG	
11	23.9460	32.59	10.11	42.70	60.00	-17.30	QP	
12	24.0300	20.52	10.11	30.63	50.00	-19.37	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				
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
Test Limit	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

**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

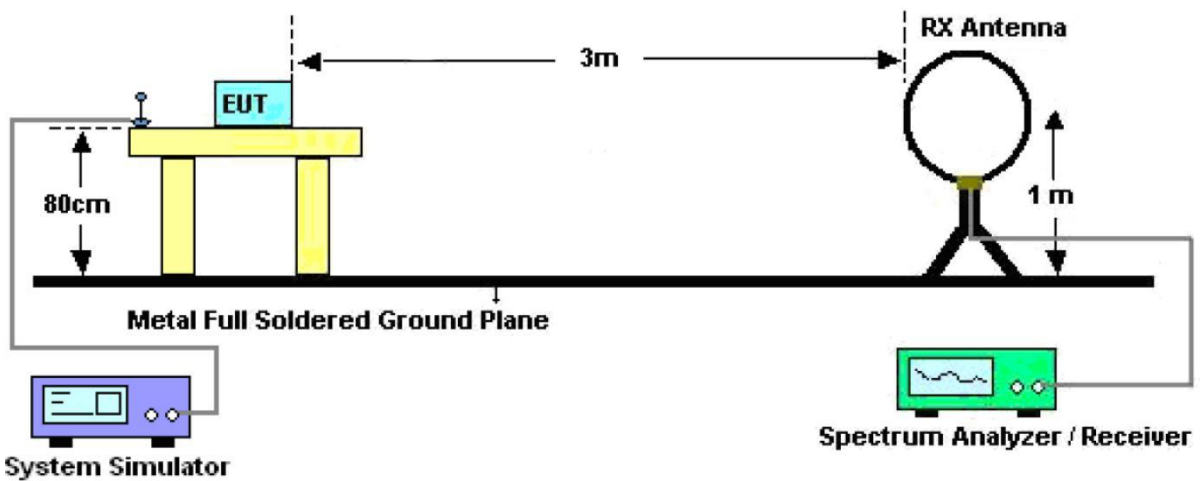


Figure 1. Below 30MHz



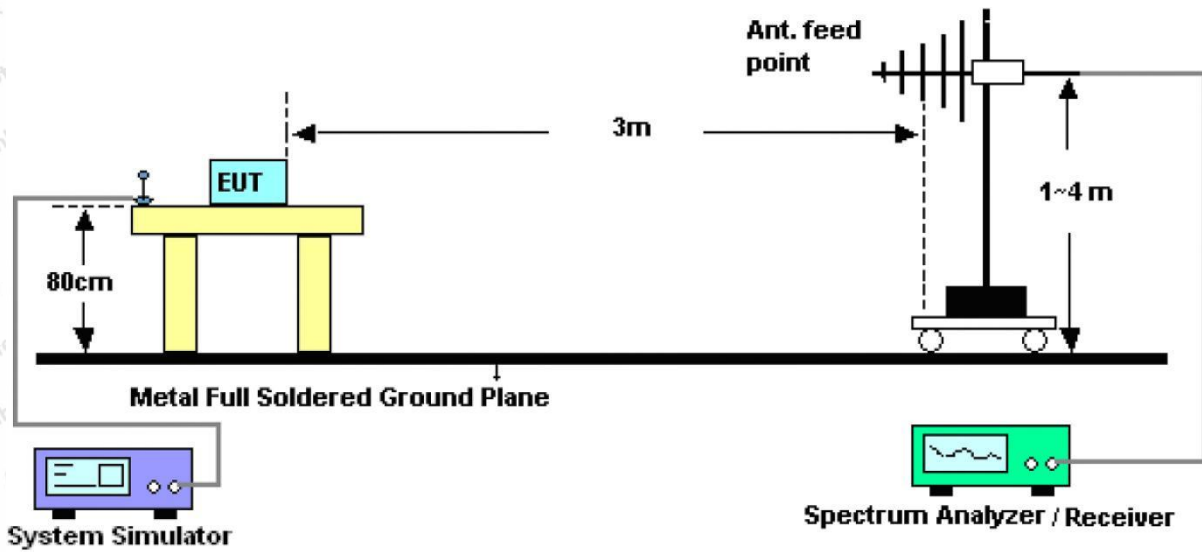


Figure 2. 30MHz to 1GHz

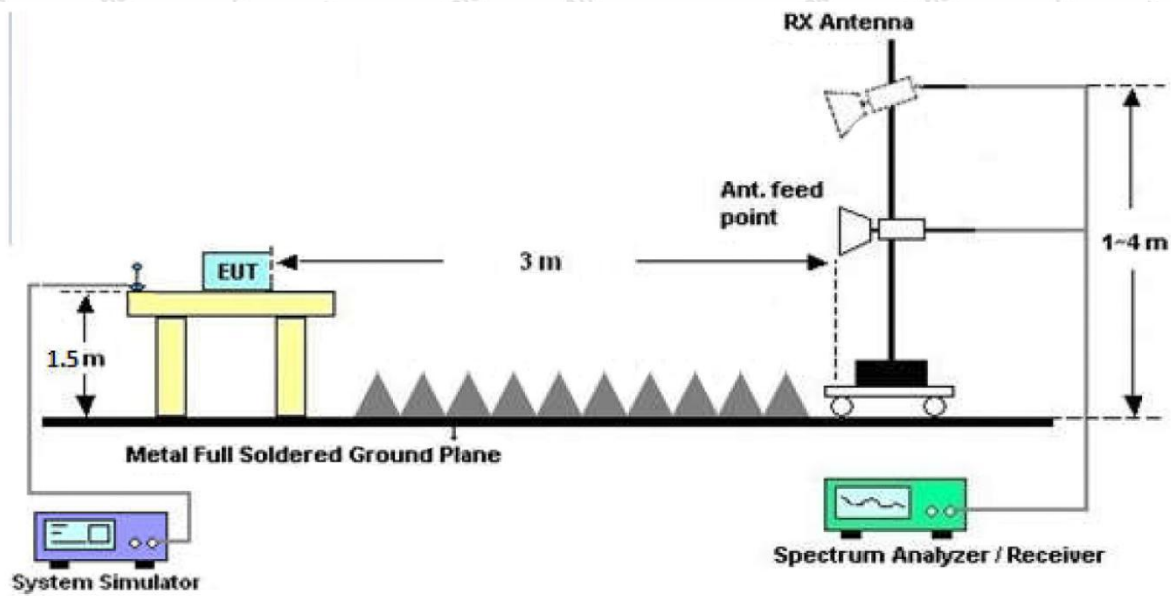


Figure 3. Above 1 GHz

### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m 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 the modes, only the worst case is recorded in the report.

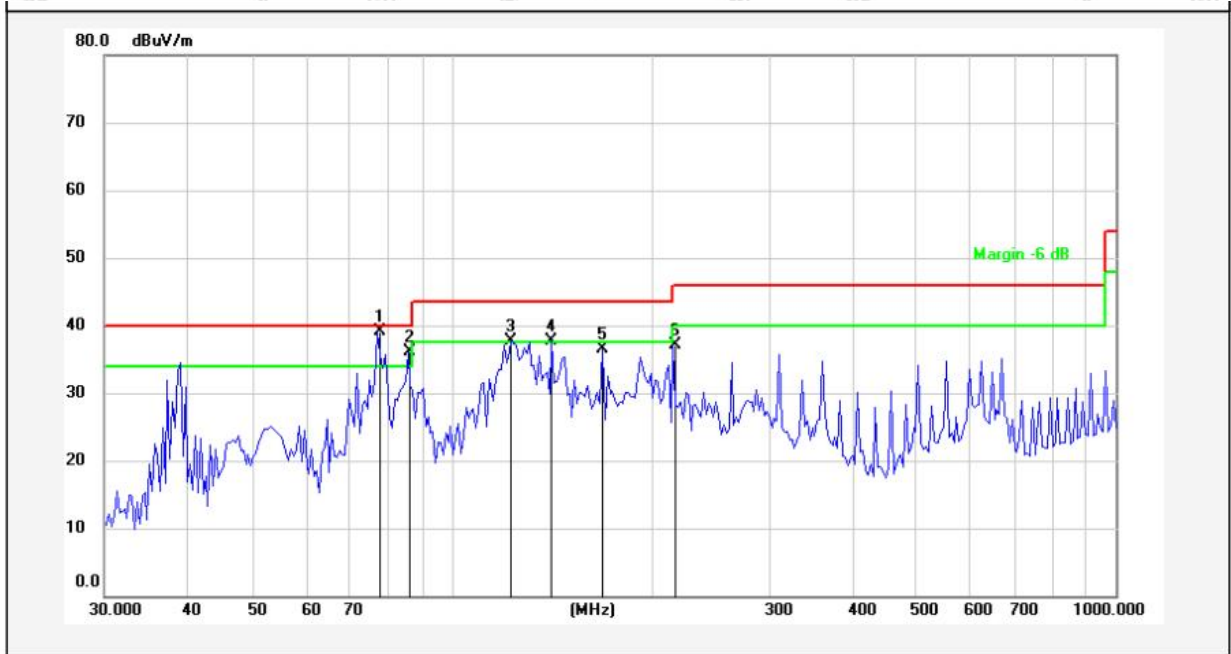
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.





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

Test Mode: Mode 1      Temp.(°C)/Hum.(%RH): 23.5°C/48%RH  
 Power Source: AC 120V, 60Hz for Adapter      Polarization: Horizontal

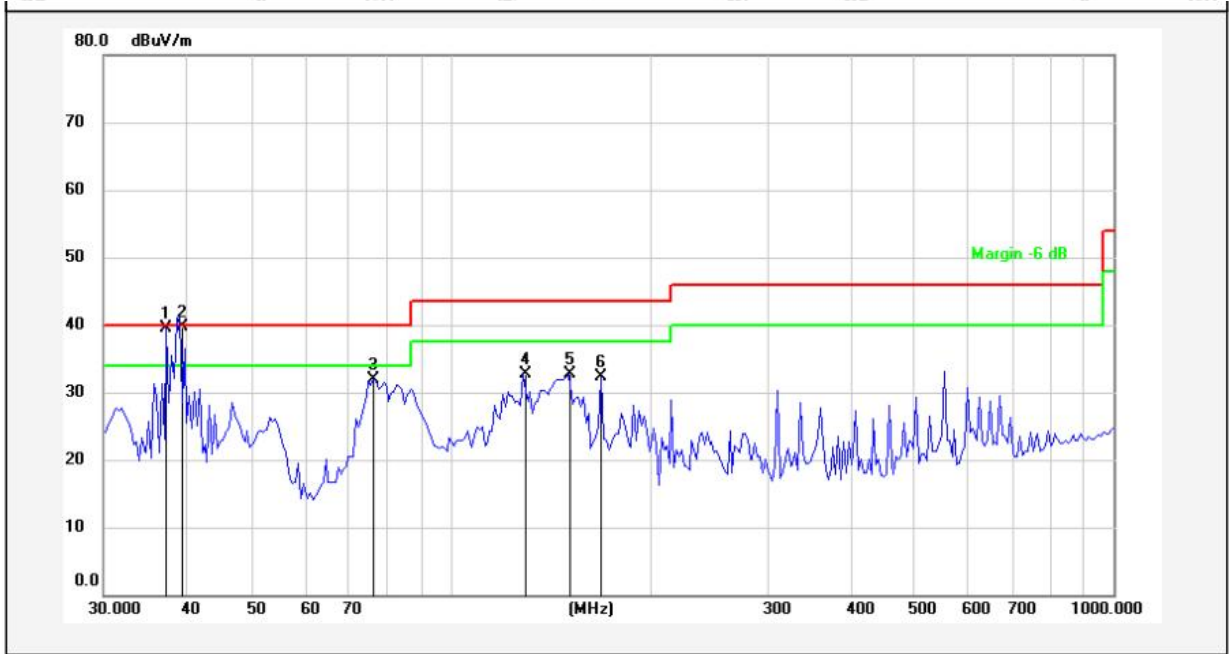


No.	Freq. (MHz)	Reading (dBuV)	Factor ( )	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	77.3212	60.80	-21.68	39.12	40.00	-0.88	QP			
2	85.8984	55.79	-19.70	36.09	40.00	-3.91	QP			
3	123.0495	57.65	-19.94	37.71	43.50	-5.79	QP			
4	141.5777	59.02	-21.32	37.70	43.50	-5.80	QP			
5	168.7093	56.56	-20.02	36.54	43.50	-6.96	QP			
6	215.6456	54.69	-17.52	37.17	43.50	-6.33	QP			



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

Test Mode: Mode 1      Temp.(°C)/Hum. (%RH): 23.5°C/48%RH  
 Power Source: AC 120V, 60Hz for Adapter      Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor ( )	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	37.3509	57.06	-17.48	39.58	40.00	-0.42	QP			
2	39.0245	56.82	-17.08	39.74	40.00	-0.26	QP			
3	76.6463	53.49	-21.68	31.81	40.00	-8.19	QP			
4	128.5630	53.32	-20.63	32.69	43.50	-10.81	QP			
5	150.5378	53.73	-21.08	32.65	43.50	-10.85	QP			
6	168.7093	52.41	-20.02	32.39	43.50	-11.11	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	27.62	15.27	42.89	74.00	-31.11	Vertical
7206.00	27.83	18.09	45.92	74.00	-28.08	Vertical
9608.00	28.39	23.76	52.15	74.00	-21.85	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	27.36	15.27	42.63	74.00	-31.37	Horizontal
7206.00	28.04	18.09	46.13	74.00	-27.87	Horizontal
9608.00	27.75	23.76	51.51	74.00	-22.49	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	15.89	15.27	31.16	54.00	-22.84	Vertical
7206.00	16.88	18.09	34.97	54.00	-19.03	Vertical
9608.00	17.86	23.76	41.62	54.00	-12.38	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	15.69	15.27	30.96	54.00	-23.04	Horizontal
7206.00	17.07	18.09	35.16	54.00	-18.84	Horizontal
9608.00	17.26	23.76	41.02	54.00	-12.98	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	27.17	15.42	42.59	74.00	-31.41	Vertical
7320.00	27.80	18.02	45.82	74.00	-28.18	Vertical
9760.00	27.89	23.80	51.69	74.00	-22.31	Vertical
12200.00	*			74.00		Vertical
14640.00	*			74.00		Vertical
4880.00	27.17	15.42	42.59	74.00	-31.41	Horizontal
7320.00	27.91	18.02	45.93	74.00	-28.07	Horizontal
9760.00	27.47	23.80	51.27	74.00	-22.73	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	15.98	15.42	31.40	54.00	-22.60	polarization
7320.00	16.74	18.02	34.76	54.00	-19.24	Vertical
9760.00	17.71	23.80	41.51	54.00	-12.49	Vertical
12200.00	*			54.00		Vertical
14640.00	*			54.00		Vertical
4880.00	15.80	15.42	31.22	54.00	-22.78	Vertical
7320.00	17.42	18.02	35.44	54.00	-18.56	Horizontal
9760.00	17.56	23.80	41.36	54.00	-12.64	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	27.30	15.58	42.88	74.00	-31.12	Vertical
7440.00	27.96	17.93	45.89	74.00	-28.11	Vertical
9920.00	28.59	23.83	52.42	74.00	-21.58	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	27.31	15.58	42.89	74.00	-31.11	Horizontal
7440.00	28.12	17.93	46.05	74.00	-27.95	Horizontal
9920.00	27.85	23.83	51.68	74.00	-22.32	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	17.10	15.58	32.68	54.00	-21.32	Vertical
7440.00	18.01	17.93	35.94	54.00	-18.06	Vertical
9920.00	18.36	23.83	42.19	54.00	-11.81	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	16.98	15.58	32.56	54.00	-21.44	Horizontal
7440.00	18.22	17.93	36.15	54.00	-17.85	Horizontal
9920.00	17.71	23.83	41.54	54.00	-12.46	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

Remark:

1. Level =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.

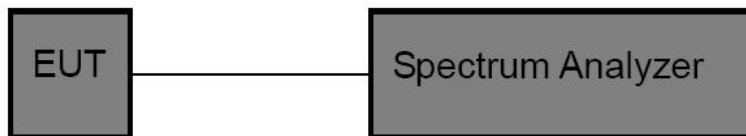


## 5. Maximum Peak Output Power Test

### 5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(3)
Test Limit	30dBm

### 5.2. Test Setup



### 5.3. Test Procedure

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

1. Set the RBW  $\geq$  DTS bandwidth.
2. Set the VBW  $\geq 3 \times$  RBW.
3. Set the span  $\geq 3 \times$  RBW.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use peak marker function to determine the peak amplitude level.

### 5.4. Test Data

Pass

(For pre-scan, the result is less than the original, so the original data is referenced.)

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.81	$\leq 30$	PASS
		2440	2.32	$\leq 30$	PASS
		2480	3.24	$\leq 30$	PASS



## 6. Antenna Requirement

### 6.1. 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>

### 6.2. Antenna Connected Construction

The antenna is a FPC Antenna which permanently attached, and the best case gain of the antenna is 1.5 dBi 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 -----

