

FCC Test Report

Client Name : Anker Innovations Limited

Client Address : Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong

Product Name : eufy Pet Camera Lite N140 / Dog Camera D605

Report Date : Nov. 03, 2022

Shenzhen Anbotech Compliance Laboratory Limited



Shenzhen Anbotech 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@anbotech.com

Code: AB-RF-05-b



Hotline
400-003-0500
www.anbotech.com.cn



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TEST REPORT

Applicant : Anker Innovations Limited
Manufacturer : Anker Innovations Limited
Product Name : eufy Pet Camera Lite N140 / Dog Camera D605
Model No. : T7203
Trade Mark : eufy PET
Rating(s) : T7200: DC 12V, 2A (via adapter input: 100-240V~ 50/60Hz 0.65A Max)
T7203: DC 12V, 1A (Via adapter input: 100-240V~ 50/60Hz 0.4A Max)
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 Anbotech 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 Anbotech 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 Anbotech Compliance Laboratory Limited.

Date of Receipt

Oct. 13, 2022

Date of Test

Oct. 13~24, 2022

Prepared by

Ella Liang

(Ella Liang)

Approved & Authorized Signer

Kingkong Jin

(Kingkong Jin)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 03, 2022

Note 1:

This is a Class II application which was based on the original report 18220WC10189101. Adding one more model T7203 which is based on T7200 to:

1. Reduce one motor (motor) and remove its small drive plate;
2. Replace the motor drive chip and delete the shield cover on the drive chip. The drive chip and layout inside the shield cover have changed, and the PCB layout outside the shield cover of the drive chip has not changed at all.
3. Main board: The memory chip is changed from 16G to 4G. The version number of the main board layout may change. The pin pin encapsulation of the chip is the same, and the circuit will not change, just change a chip;
4. For other three motors (motors), add one more source for each motor;
5. Replace the shell with other HB materials;
6. Replace a certified adapter (12V/1A) for T7203
7. Report one more graphic sensor, pin to pin, same specification, no difference in appearance, no change in layout
8. The wireless part has not changed
9. Change rating to DC 12V 1A for T7203
10. Increase crystal oscillator manufacturers

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



1. General Information

1.1. Client Information

Applicant	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong

1.2. Description of Device (EUT)

Product Name	:	eufy Pet Camera Lite N140 / Dog Camera D605
Model No.	:	T7200, T7203 (Note: Based on the change made to the device, so we prepare "T7203" for test only.)
Trade Mark	:	eufy PET
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: 2412-2462MHz for 802.11b/g/n(HT20)
	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&WiFi 2.4G: FPC antenna
	Antenna Gain(Peak):	BLE: 3.07 dBi WiFi 2.4G: 3.07 dBi
	Adapter:	Model: KA2401A-1202000US Input: 100V-240V~ 50/60Hz 0.4A Max Output: 12V---1000mA
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) This report is for WIFI 2.4G module.		



1.3. Auxiliary Equipment Used During Test

Adapter:	N/A
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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.

RADIATED EMISSION TEST (BELOW 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Data Rate (Mbps)
802.11g	1 to 11	1, 6, 11	OFDM	6.0

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Data Rate (Mbps)
802.11g	1 to 11	1, 6, 11	OFDM	6.0

POWER LINE CONDUCTED EMISSION TEST:

The EUT was tested with the following mode

Mode	Available Channel	Test Channel	Modulation Tech.	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	6.5



BANDEDGE MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	6.5

ANTENNA PORT CONDUCTED MEASUREMENT:

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

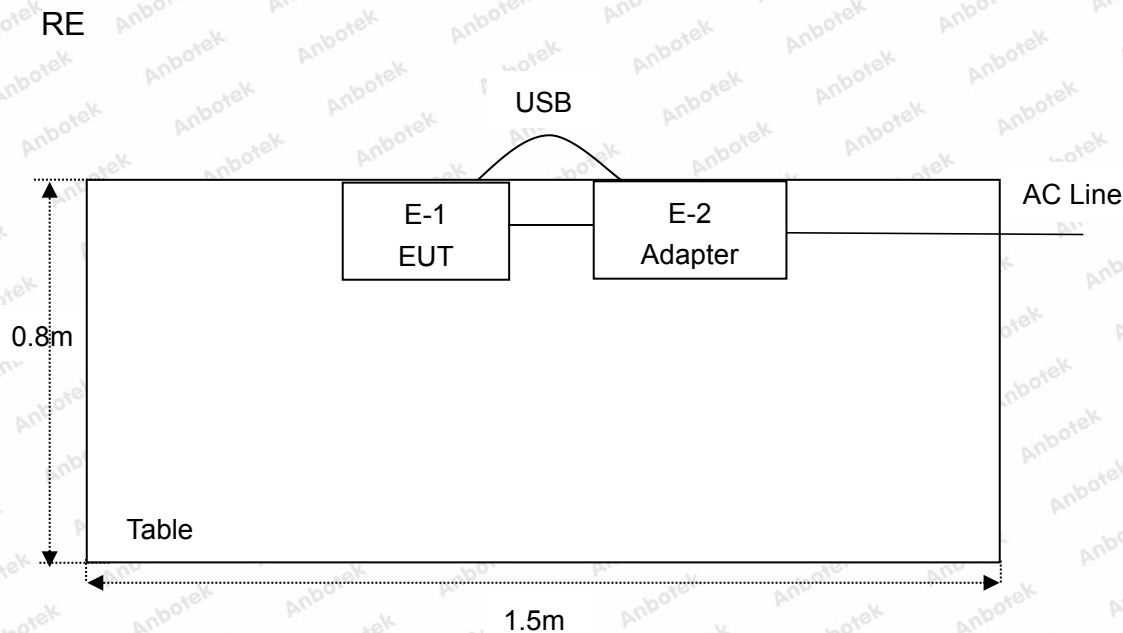
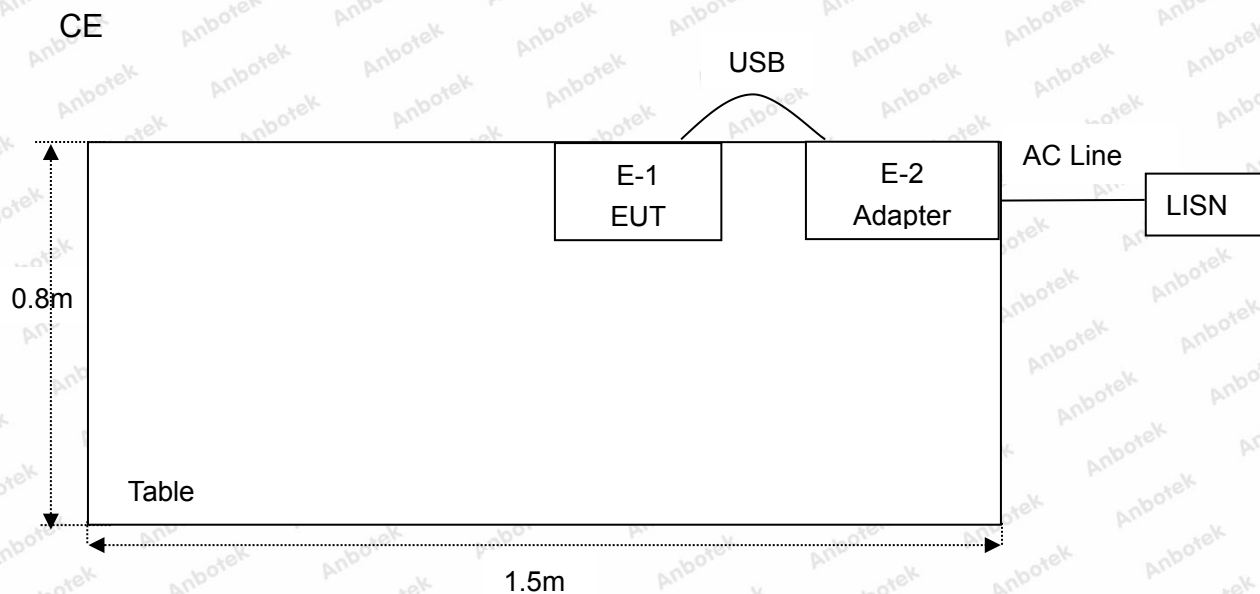
Mode	Available Channel	Test Channel	Modulation Tech.	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	6.5

1.5. List of channels

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		



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-K F	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-KHWS80 B	N/A	Nov. 01, 2021	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, September 30, 2020.

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, September 30, 2020.

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
Remark: "N/A" is an abbreviation for Not Applicable.		

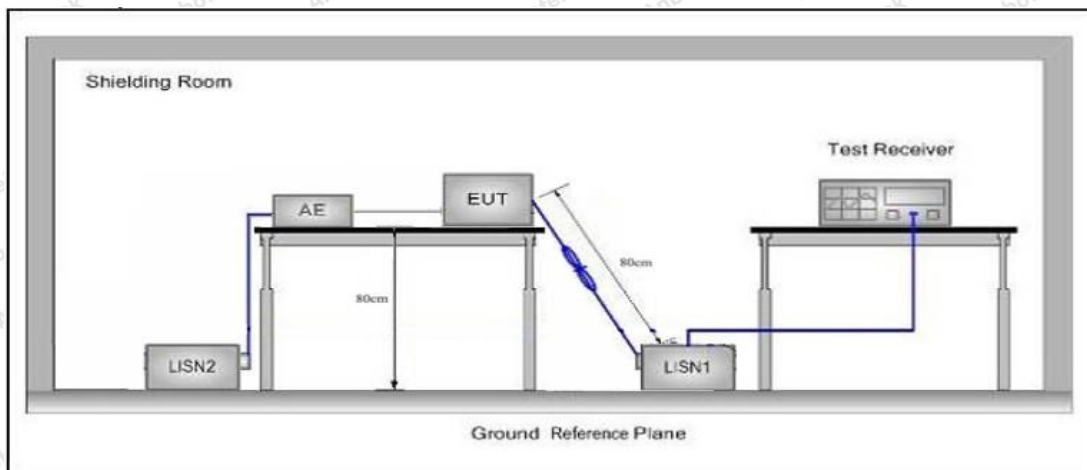


3. Conducted Emission Test

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.

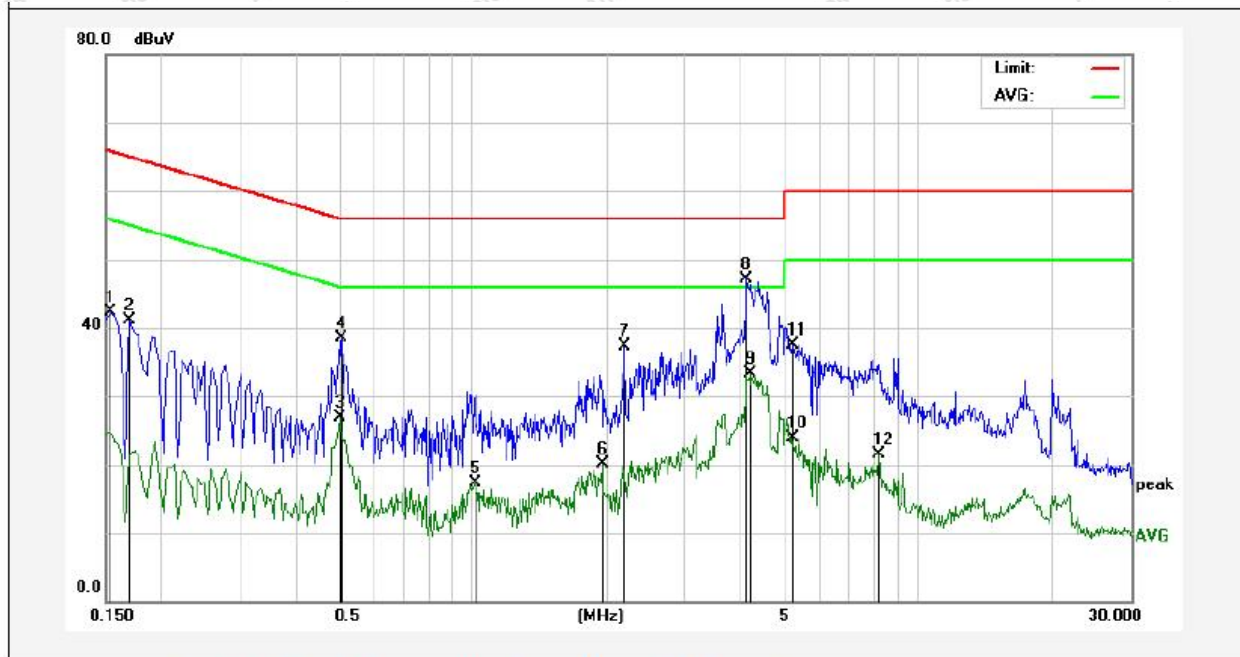
3.4. Test Data

During the test, pre-scan all modes, and found the 802.11g CH06 of which is the worst case, only the worst case is recorded in the report.



Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 802.11g CH06
Test Specification: AC 120V, 60Hz for Adapter
Comment: Live Line
Tem.: 24.2°C Hum.: 48%

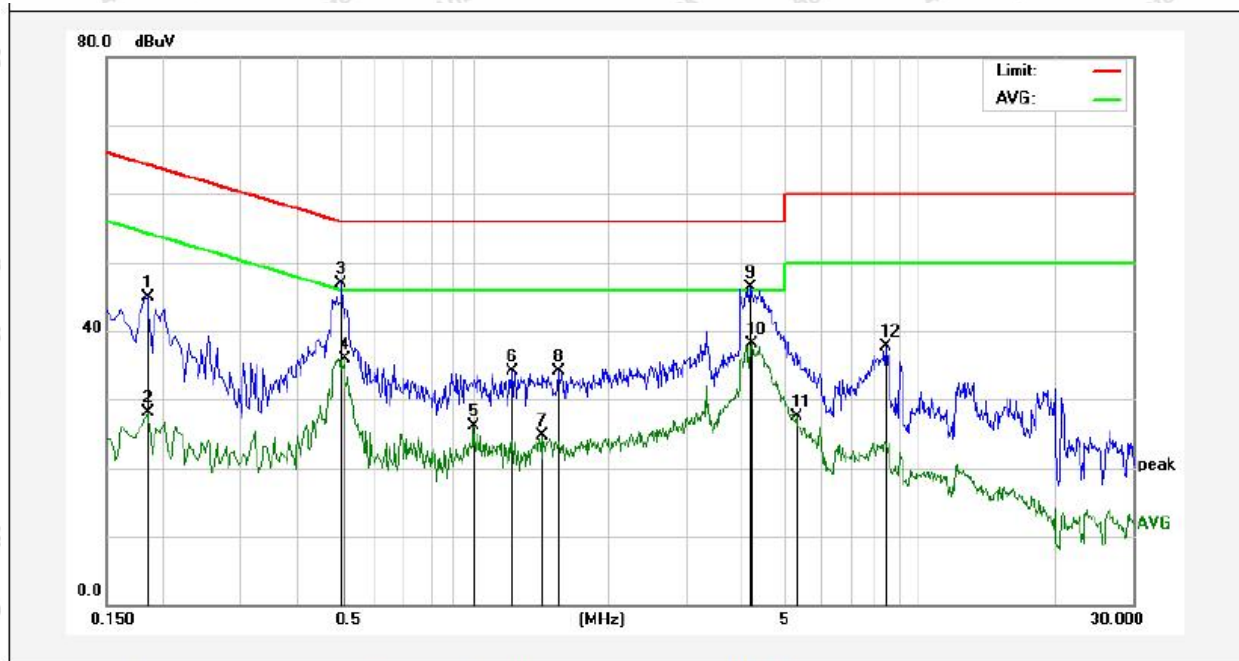


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	32.55	9.70	42.25	65.78	-23.53	QP	
2	0.1700	31.45	9.71	41.16	64.96	-23.80	QP	
3	0.5020	17.15	9.76	26.91	46.00	-19.09	AVG	
4	0.5100	28.67	9.76	38.43	56.00	-17.57	QP	
5	1.0140	7.49	9.74	17.23	46.00	-28.77	AVG	
6	1.9540	10.41	9.72	20.13	46.00	-25.87	AVG	
7	2.1900	27.56	9.72	37.28	56.00	-18.72	QP	
8	4.1339	37.47	9.73	47.20	56.00	-8.80	QP	
9	4.2099	23.55	9.73	33.28	46.00	-12.72	AVG	
10	5.2139	14.24	9.74	23.98	50.00	-26.02	AVG	
11	5.2419	27.82	9.74	37.56	60.00	-22.44	QP	
12	8.1539	11.70	9.81	21.51	50.00	-28.49	AVG	



Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 802.11g CH06
Test Specification: AC 120V, 60Hz for Adapter
Comment: Neutral Line
Tem.:24.2℃ Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1860	35.28	9.71	44.99	64.21	-19.22	QP	
2	0.1860	18.36	9.71	28.07	54.21	-26.14	AVG	
3	0.5060	37.08	9.76	46.84	56.00	-9.16	QP	
4	0.5140	26.12	9.76	35.88	46.00	-10.12	AVG	
5	0.9980	16.37	9.74	26.11	46.00	-19.89	AVG	
6	1.2220	24.28	9.73	34.01	56.00	-21.99	QP	
7	1.4260	14.92	9.73	24.65	46.00	-21.35	AVG	
8	1.5500	24.35	9.73	34.08	56.00	-21.92	QP	
9	4.1779	36.49	9.73	46.22	56.00	-9.78	QP	
10	4.2179	28.37	9.73	38.10	46.00	-7.90	AVG	
11	5.2779	17.76	9.75	27.51	50.00	-22.49	AVG	
12	8.3979	27.82	9.81	37.63	60.00	-22.37	QP	



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

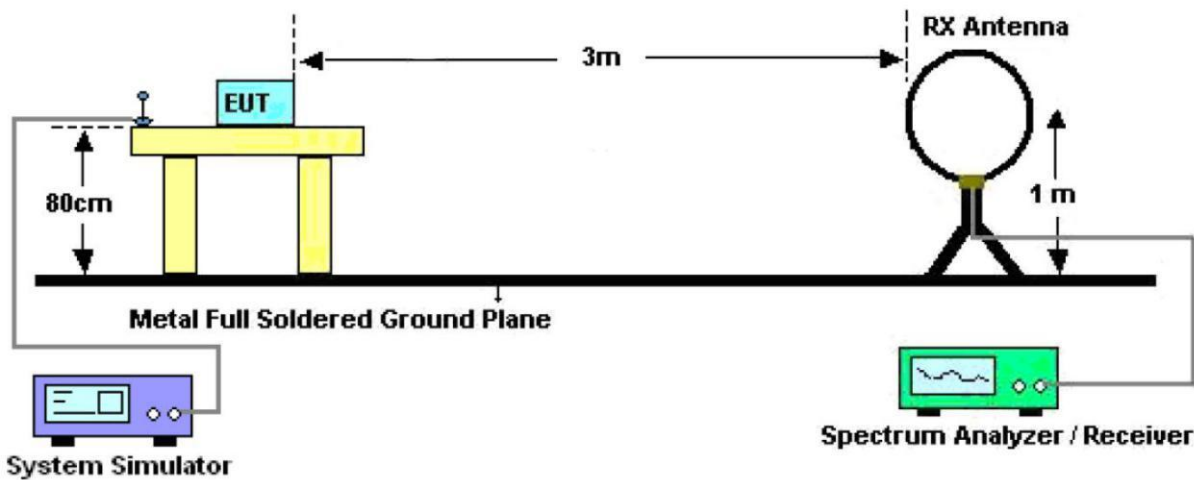


Figure 1. Below 30MHz



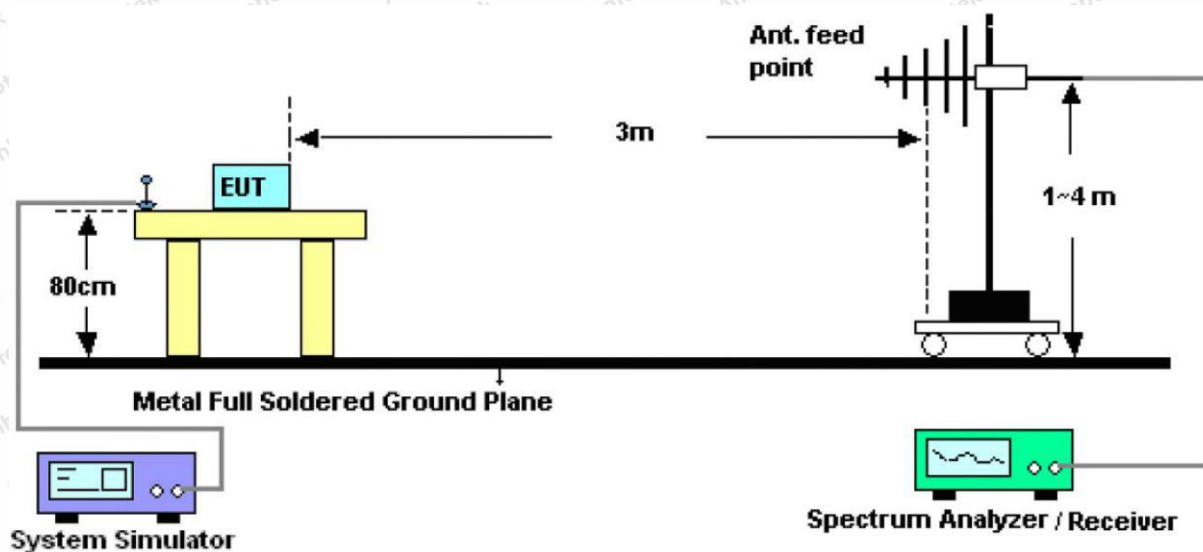


Figure 2. 30MHz to 1GHz

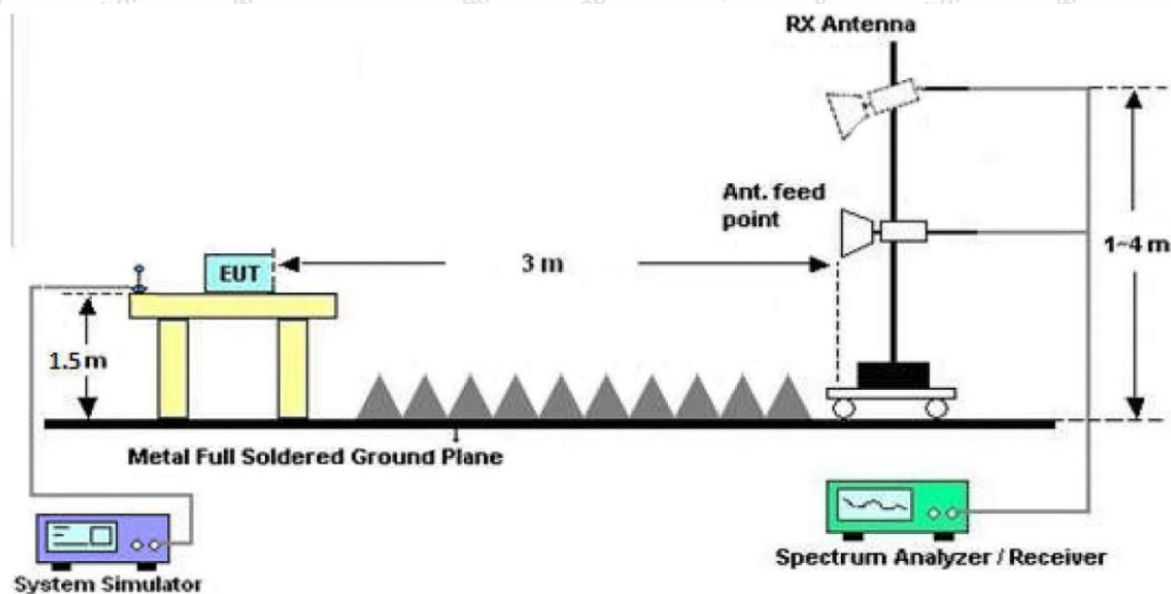


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m 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 kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

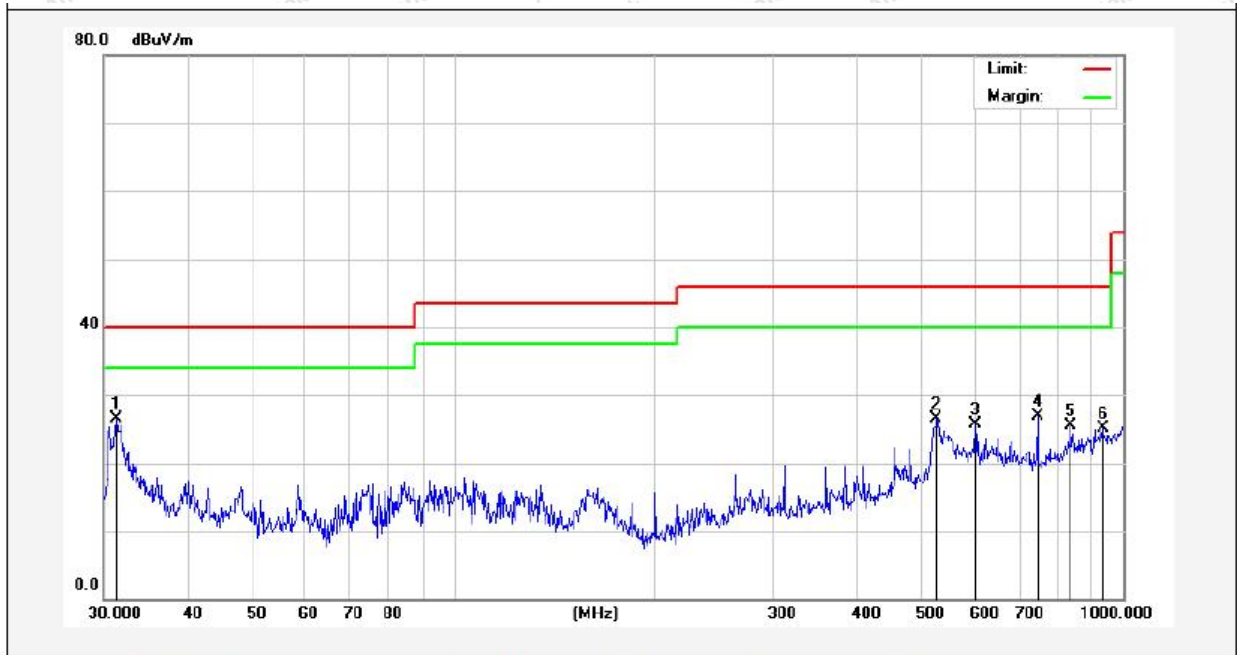
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, and found the 802.11g CH06 which is the worst case, only the worst case is recorded in the report.



Test Results (30~1000MHz)

Test Mode: 802.11g CH06
Power Source: AC 120V, 60Hz for Adapter
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 24.8°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	31.3992	46.22	-19.76	26.46	40.00	-13.54	peak			
2	526.3967	39.15	-12.71	26.44	46.00	-19.56	peak			
3	601.4265	36.32	-10.53	25.79	46.00	-20.21	peak			
4	744.8661	36.16	-9.30	26.86	46.00	-19.14	peak			
5	836.2443	33.29	-7.70	25.59	46.00	-20.41	peak			
6	932.2715	30.89	-5.85	25.04	46.00	-20.96	peak			



Test Results (30~1000MHz)

Test Mode: 802.11g CH06

Power Source: AC 120V, 60Hz for Adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 24.8°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.2111	42.80	-17.93	24.87	40.00	-15.13	peak			
2	46.3402	41.71	-15.24	26.47	40.00	-13.53	peak			
3	85.8984	46.02	-18.36	27.66	40.00	-12.34	peak			
4	101.2885	42.81	-16.78	26.03	43.50	-17.47	peak			
5	636.1340	37.47	-10.62	26.85	46.00	-19.15	peak			
6	938.8326	33.41	-5.77	27.64	46.00	-18.36	peak			



Test Results (Above 1000MHz)

Test Mode: 802.11g Mode

Test channel: Lowest

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	27.04	15.31	42.35	74.00	-31.65	Vertical
7236.00	27.83	18.06	45.89	74.00	-28.11	Vertical
9648.00	28.54	23.77	52.31	74.00	-21.69	Vertical
12060.00	*			74.00		Vertical
14472.00	*			74.00		Vertical
4824.00	26.64	15.31	41.95	74.00	-32.05	Horizontal
7236.00	29.16	18.06	47.22	74.00	-26.78	Horizontal
9648.00	28.61	23.77	52.38	74.00	-21.62	Horizontal
12060.00	*			74.00		Horizontal
14472.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	18.12	15.31	33.43	54.00	-20.57	Vertical
7236.00	18.70	18.06	36.76	54.00	-17.24	Vertical
9648.00	18.89	23.77	42.66	54.00	-11.34	Vertical
12060.00	*			54.00		Vertical
14472.00	*			54.00		Vertical
4824.00	18.17	15.31	33.48	54.00	-20.52	Horizontal
7236.00	20.40	18.06	38.46	54.00	-15.54	Horizontal
9648.00	19.36	23.77	43.13	54.00	-10.87	Horizontal
12060.00	*			54.00		Horizontal
14472.00	*			54.00		Horizontal



Test Results (Above 1000MHz)

Test Mode: 802.11g Mode

Test channel: Middle

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	27.09	15.41	42.50	74.00	-31.50	Vertical
7311.00	27.89	18.01	45.90	74.00	-28.10	Vertical
9748.00	28.56	23.79	52.35	74.00	-21.65	Vertical
12185.00	*			74.00		Vertical
14622.00	*			74.00		Vertical
4874.00	27.49	15.41	42.90	74.00	-31.10	Horizontal
7311.00	28.78	18.01	46.79	74.00	-27.21	Horizontal
9748.00	28.93	23.79	52.72	74.00	-21.28	Horizontal
12185.00	*			74.00		Horizontal
14622.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	17.93	15.41	33.34	54.00	-20.66	Vertical
7311.00	19.21	18.01	37.22	54.00	-16.78	Vertical
9748.00	19.81	23.79	43.60	54.00	-10.40	Vertical
12185.00	*			54.00		Vertical
14622.00	*			54.00		Vertical
4874.00	19.60	15.41	35.01	54.00	-18.99	Horizontal
7311.00	19.87	18.01	37.88	54.00	-16.12	Horizontal
9748.00	18.65	23.79	42.44	54.00	-11.56	Horizontal
12185.00	*			54.00		Horizontal
14622.00	*			54.00		Horizontal



Test Results (Above 1000MHz)

Test Mode: 802.11g Mode

Test channel: Highest

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	27.65	15.51	43.16	74.00	-30.84	Vertical
7386.00	28.59	17.97	46.56	74.00	-27.44	Vertical
9848.00	29.37	23.82	53.19	74.00	-20.81	Vertical
12310.00	*			74.00		Vertical
14772.00	*			74.00		Vertical
4924.00	26.88	15.51	42.39	74.00	-31.61	Horizontal
7386.00	27.74	17.97	45.71	74.00	-28.29	Horizontal
9848.00	28.53	23.82	52.35	74.00	-21.65	Horizontal
12310.00	*			74.00		Horizontal
14772.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	17.56	15.51	33.07	54.00	-20.93	Vertical
7386.00	18.51	17.97	36.48	54.00	-17.52	Vertical
9848.00	19.37	23.82	43.19	54.00	-10.81	Vertical
12310.00	*			54.00		Vertical
14772.00	*			54.00		Vertical
4924.00	17.24	15.51	32.75	54.00	-21.25	Horizontal
7386.00	18.21	17.97	36.18	54.00	-17.82	Horizontal
9848.00	18.14	23.82	41.96	54.00	-12.04	Horizontal
12310.00	*			54.00		Horizontal
14772.00	*			54.00		Horizontal

Remark:

1. During the test, pre-scan the 802.11b,g,n(HT20) mode, and found the 802.11g mode is worse case , the report only record this mode.
2. Level =Read level + Factor
3. “*”, means this data is the too weak instrument of signal is unable to test.



5. Antenna Requirement

5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	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. 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.

5.2. Antenna Connected Construction

The antenna is a FPC antenna which permanently attached, and the best case gain of the antenna is 3.07 dBi It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files for Test Setup Photos of the EUT.

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files for External Photos of the EUT.

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files for Internal Photos of the EUT.

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

