

FCC TEST REPORT

FCC ID:2A2XC-LDD11

Report Number..... : ZKT-2107263677E

Date of Test..... Aug. 01, 2021 to Aug. 10, 2021

Date of issue..... Aug. 10, 2021

Total number of pages..... 56

Test Result..... : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Glowworm (Shenzhen) Lighting Technology Co.,Ltd

Address : 702, building 23, Longhua District Science and technology innovation center, minfan Road, Minzhi street, Longhua District, Shenzhen, Guangdong, China

Manufacturer's name : Glowworm (Shenzhen) Lighting Technology Co.,Ltd

Address : 702, building 23, Longhua District Science and technology innovation center, minfan Road, Minzhi street, Longhua District, Shenzhen, Guangdong, China

Test specification:Standard..... : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No..... : TRF-EL-110_V0**Test Report Form(s) Originator**..... : ZKT Testing**Master TRF** : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : LED light control box

Trademark : N/A

Model/Type reference..... : LDD11
LDD11-5V ,LDD11-12V ,LDD11-24V

Ratings..... : Input: 120V/60Hz

Testing procedure and testing location:

Testing Laboratory.....: **Shenzhen ZKT Technology Co., Ltd.**

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature).....: **Alen He**



Reviewer (name + signature).....: **Joe Liu**



Approved (name + signature).....: **Lake Xie**



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1. VERSION

Report No.	Version	Description	Approved
ZKT-2107263677E	Rev.01	Initial issue of report	Aug. 10, 2021

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (c)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	Channel Bandwidth& 99% OCB	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299

IC Registered No.: 27033

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$ · where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$ · providing a level of confidence of approximately 95 % .

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power conducted	$\pm 0.16\text{dB}$
3	Spurious emissions conducted	$\pm 0.21\text{dB}$
4	All emissions radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	LED light control box
Model No.:	LDD11 LDD11-5V ,LDD11-12V ,LDD11-24V
Model Different.:	N/A
Serial No.:	N/A
Hardware Version:	H1.0
Software Version:	S1.0
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20):11 802.11n(HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum(DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing(OFDM)
Antenna Type:	PCB Antenna
Antenna gain:	0dBi
Power supply:	Input: 120V/60Hz

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

Test Software	Realtek Test Tool
Power level setup	<13dBm

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission

DC Line EUT

Radiated Emission

EUT

Conducted Spurious

EUT

3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	LED light control box	N/A	AT1682	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY45109572	Sep. 22, 2020	Sep. 21, 2021
2	Spectrum Analyzer (1GHz-40GHz)	Agilent	E4446A	100363	Sep. 22, 2020	Sep. 21, 2021
3	Test Receiver (9kHz-7GHz)	R&S	ESC17	101169	Sep. 22, 2020	Sep. 21, 2021
4	Bilog Antenna (30MHz-1400MHz)	Schwarzbeck	VULB9168	00877	Sep. 22, 2020	Sep. 21, 2021
5	Horn Antenna (1GHz-18GHz)	SCHWARZBEC K	BBHA9120D	1541	Sep. 22, 2020	Sep. 21, 2021
6	Horn Antenna (18GHz-40GHz)	A.H. System	SAS-574	588	Sep. 22, 2020	Sep. 21, 2021
7	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	N/A	Sep. 22, 2020	Sep. 21, 2021
8	Amplifier (1GHz-40GHz)	全聚达	DLE-161	097	Sep. 22, 2020	Sep. 21, 2021
9	Loop Antenna (9KHz-30MHz)	SCHWARZBEC K	FMZB1519B	014	Sep. 22, 2020	Sep. 21, 2021
10	RF cables1 (9kHz-30MHz)	N/A	9kHz-30MHz	N/A	Sep. 22, 2020	Sep. 21, 2021
11	RF cables2 (30MHz-1GHz)	N/A	30MHz-1GHz	N/A	Sep. 22, 2020	Sep. 21, 2021
12	RF cables3 (1GHz-40GHz)	N/A	1GHz-40GHz	N/A	Sep. 22, 2020	Sep. 21, 2021
13	CMW500 Test	R&S	CMW500	106504	Sep. 22, 2020	Sep. 21, 2021
14	ESG Signal Generator	Agilent	E4421B	GB40051203	Sep. 22, 2020	Sep. 21, 2021
15	Signal Generator	Agilent	N5182A	MY47420215	Sep. 22, 2020	Sep. 21, 2021
16	D.C. Power Supply	LongWei	TPR-6405D	\	\	\
17	Software	Frad	EZ-EMC	FA-03A2 RE	\	\

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Sep. 22, 2020	Sep. 21, 2021
2	LISN	CYBERTEK	EM5040A	E1850400149	Sep. 22, 2020	Sep. 21, 2021
3	Test Cable	N/A	C01	N/A	Sep. 22, 2020	Sep. 21, 2021
4	Test Cable	N/A	C02	N/A	Sep. 22, 2020	Sep. 21, 2021
5	EMI Test Receiver	R&S	ESRP3	101946	Sep. 22, 2020	Sep. 21, 2021
6	Absorbing Clamp	DZ	ZN23201	N/A	Sep. 22, 2020	Sep. 21, 2021

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

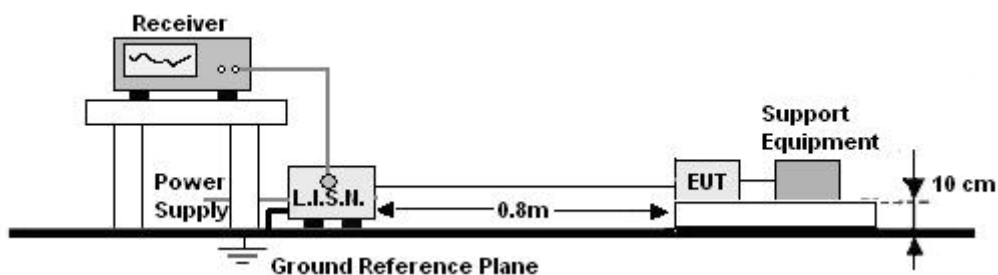
4.1.2 TEST PROCEDURE

- The EUT was placed 0.1 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



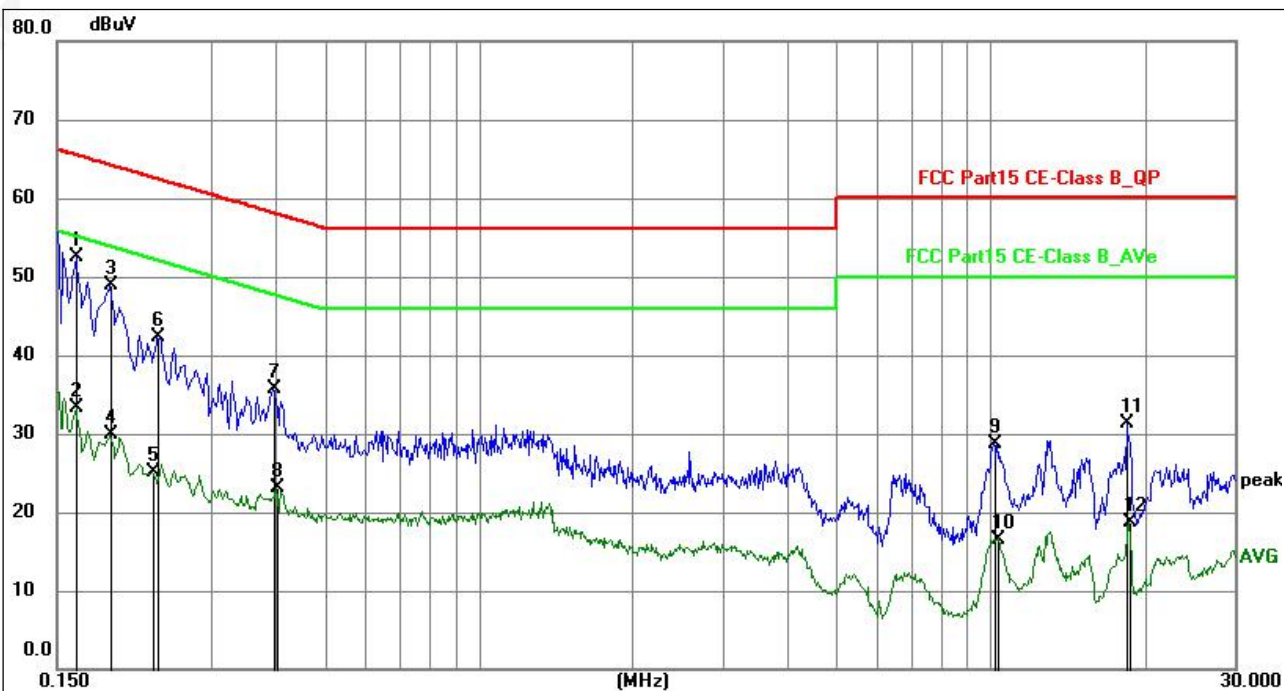
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

4.1.6 TEST RESULT

Temperature :	26°C	Relative Humidity:	54%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode	Working

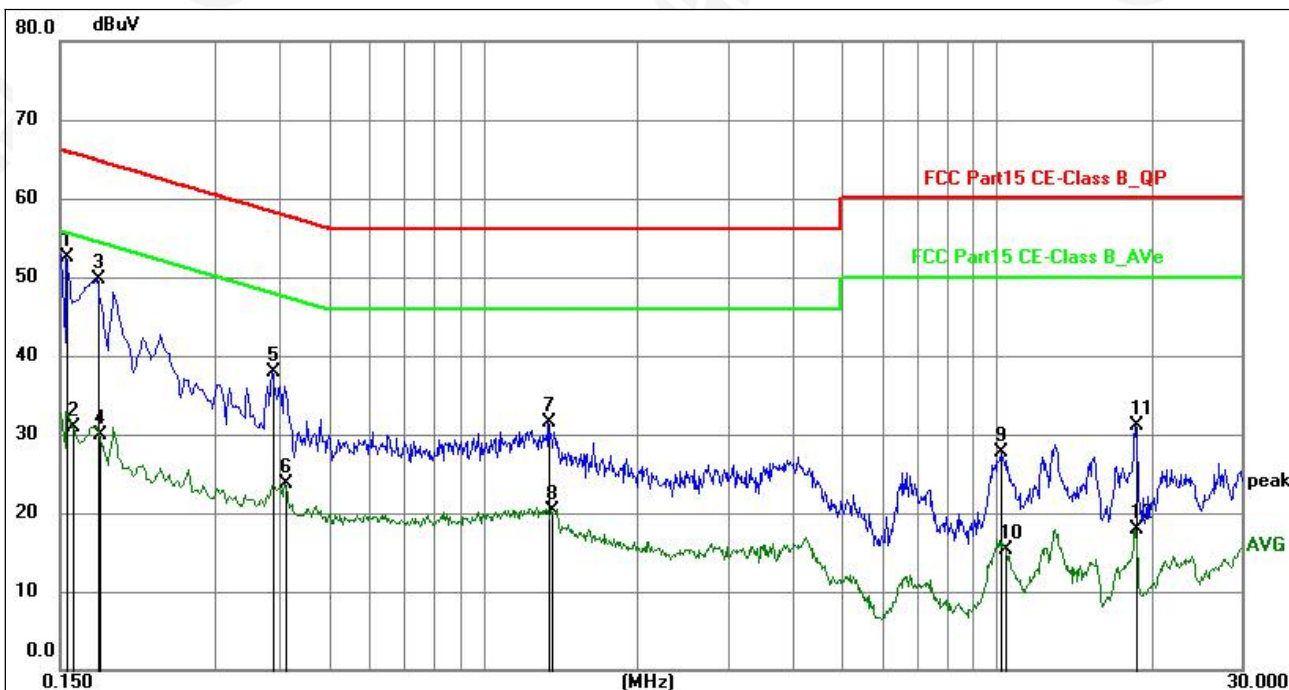


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1635	39.81	12.71	52.52	65.28	-12.76	QP	P	
2	0.1635	20.56	12.71	33.27	55.28	-22.01	AVG	P	
3	0.1905	36.81	12.13	48.94	64.01	-15.07	QP	P	
4	0.1905	17.81	12.13	29.94	54.01	-24.07	AVG	P	
5	0.2310	13.39	11.78	25.17	52.41	-27.24	AVG	P	
6	0.2355	30.50	11.75	42.25	62.25	-20.00	QP	P	
7	0.3975	24.61	11.01	35.62	57.91	-22.29	QP	P	
8	0.4020	12.13	10.99	23.12	47.81	-24.69	AVG	P	
9	10.1580	20.29	8.48	28.77	60.00	-31.23	QP	P	
10	10.3245	8.03	8.51	16.54	50.00	-33.46	AVG	P	
11	18.5235	21.58	9.65	31.23	60.00	-28.77	QP	P	
12	18.6315	9.05	9.67	18.72	50.00	-31.28	AVG	P	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

Temperature :	26°C	Relative Humidity:	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode	Working



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1545	39.50	12.91	52.41	65.75	-13.34	QP	P	
2	0.1590	18.09	12.81	30.90	55.52	-24.62	AVG	P	
3	0.1770	37.24	12.42	49.66	64.63	-14.97	QP	P	
4	0.1787	17.61	12.39	30.00	54.55	-24.55	AVG	P	
5	0.3885	26.86	11.05	37.91	58.10	-20.19	QP	P	
6	0.4110	12.76	10.95	23.71	47.63	-23.92	AVG	P	
7	1.3425	21.06	10.35	31.41	56.00	-24.59	QP	P	
8	1.3560	10.05	10.35	20.40	46.00	-25.60	AVG	P	
9	10.2299	19.16	8.49	27.65	60.00	-32.35	QP	P	
10	10.4100	6.76	8.52	15.28	50.00	-34.72	AVG	P	
11	18.6765	21.47	9.67	31.14	60.00	-28.86	QP	P	
12	18.6765	8.17	9.67	17.84	50.00	-32.16	AVG	P	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of variable-height antenna tower.

- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

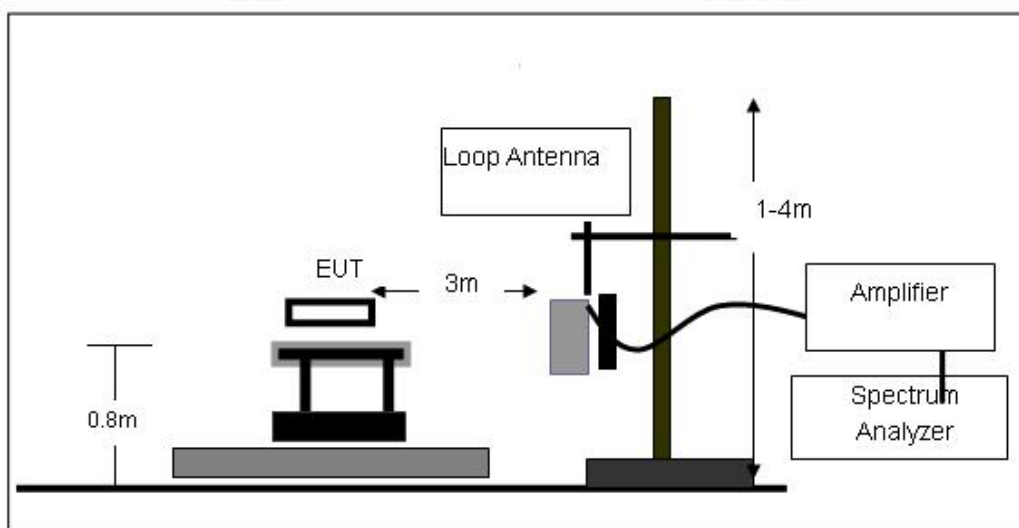
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

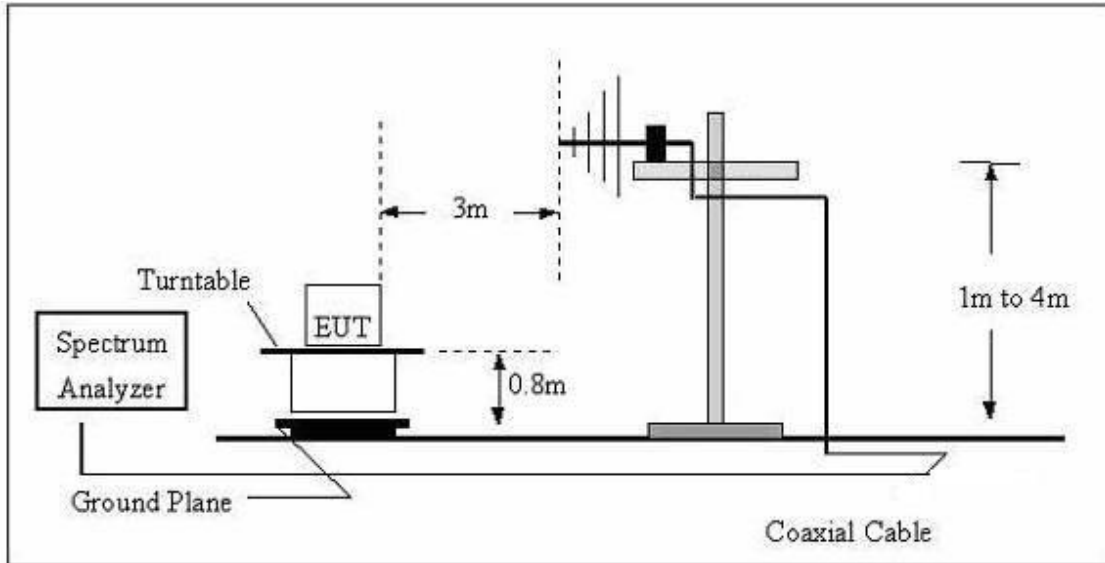
No deviation

4.2.4 TEST SETUP

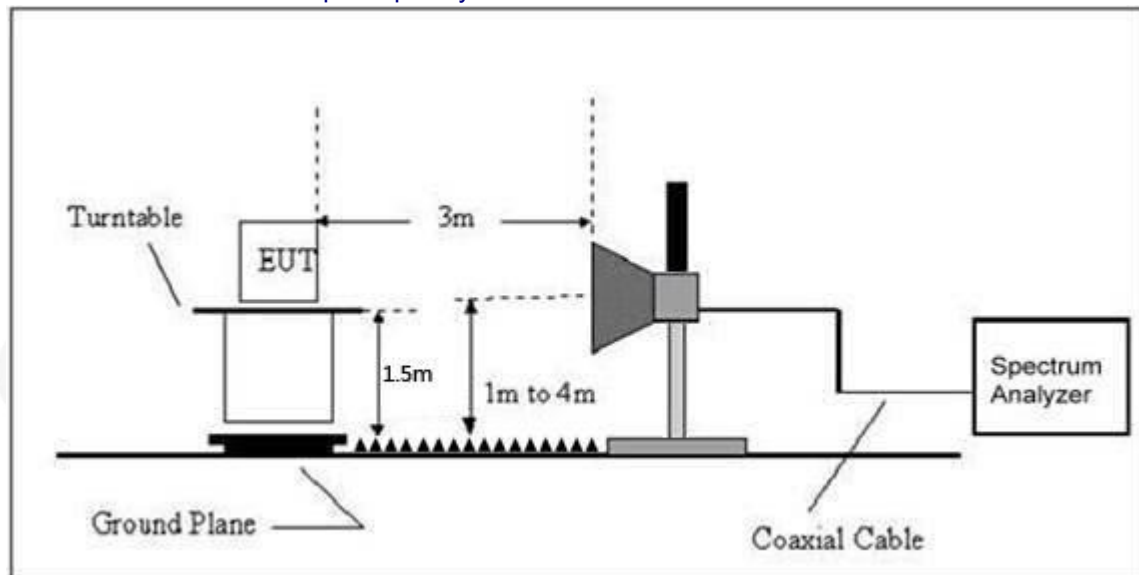
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

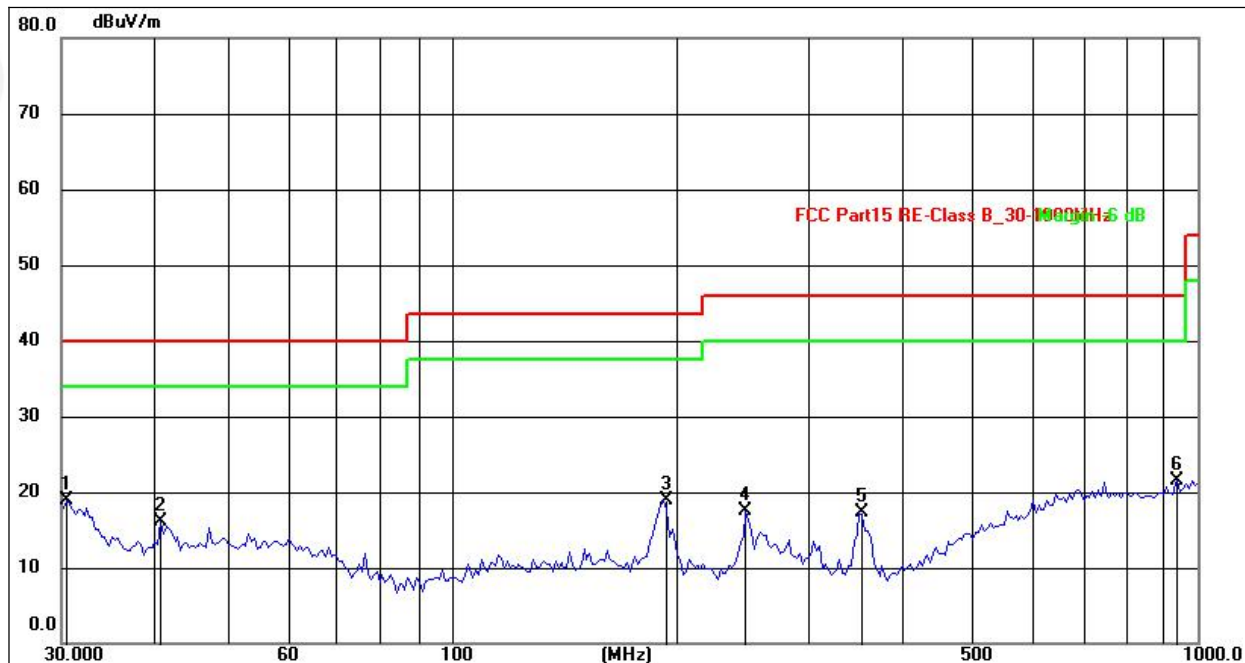
4.2.6 TEST RESULTS

Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

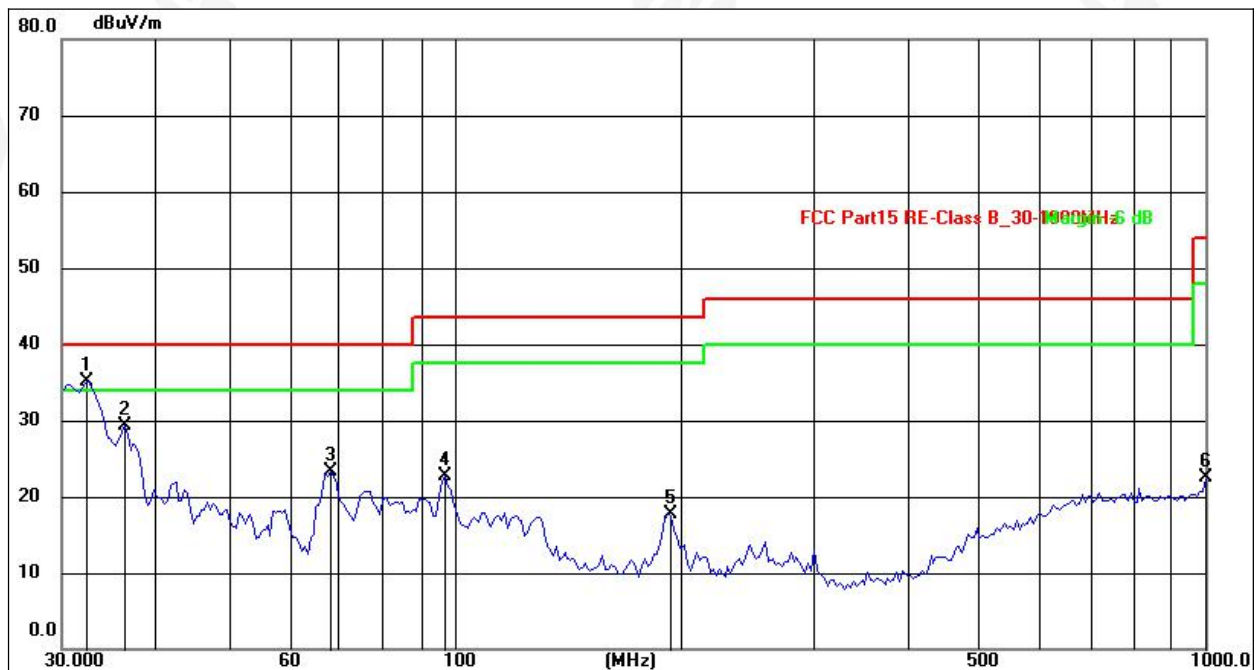
Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode	Working



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.5306	33.23	-14.29	18.94	40.00	-21.06	QP
2	40.7730	30.24	-14.13	16.11	40.00	-23.89	QP
3	192.4186	38.20	-19.37	18.83	43.50	-24.67	QP
4	248.1165	34.94	-17.46	17.48	46.00	-28.52	QP
5	352.3251	35.99	-18.76	17.23	46.00	-28.77	QP
6	940.4801	29.67	-8.13	21.54	46.00	-24.46	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode	Working



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.4628	49.76	-14.62	35.14	40.00	-4.86	QP
2	36.3814	44.05	-14.80	29.25	40.00	-10.75	QP
3	68.3908	39.78	-16.46	23.32	40.00	-16.68	QP
4	97.1148	42.67	-19.93	22.74	43.50	-20.76	QP
5	192.4186	37.07	-19.37	17.70	43.50	-25.80	QP
6	1000.0000	29.39	-6.87	22.52	54.00	-31.48	QP

Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.The test data shows only the worst case 802.11b mode

1GHz~25GHz

802.11b

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	52.24	30.55	5.77	24.66	52.12	74.00	-21.88	PK
V	4824.00	42.12	30.55	5.77	24.66	42.00	54.00	-12.00	AV
V	7236.00	50.14	30.33	6.32	24.55	50.68	74.00	-23.32	PK
V	7236.00	42.15	30.33	6.32	24.55	42.69	54.00	-11.31	AV
V	9648.00	51.22	30.85	7.45	24.69	52.51	74.00	-21.49	PK
V	9648.00	42.58	30.85	7.45	24.69	43.87	54.00	-10.13	AV
V	12060.00	51.2	31.02	8.99	25.57	54.74	74.00	-19.26	PK
V	12060.00	42.98	31.02	8.99	25.57	46.52	54.00	-7.48	AV
H	4824.00	52.14	30.55	5.77	24.66	52.02	74.00	-21.98	PK
H	4824.00	41.25	30.55	5.77	24.66	41.13	54.00	-12.87	AV
H	7236.00	51.49	30.33	6.32	24.55	52.03	74.00	-21.97	PK
H	7236.00	42.75	30.33	6.32	24.55	43.29	54.00	-10.71	AV
H	9648.00	51.49	30.85	7.45	24.69	52.78	74.00	-21.22	PK
H	9648.00	42.75	30.85	7.45	24.69	44.04	54.00	-9.96	AV
H	12060.00	50.12	31.02	8.99	25.57	53.66	74.00	-20.34	PK
H	12060.00	42.14	31.02	8.99	25.57	45.68	54.00	-8.32	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	51.24	30.55	5.77	24.66	51.12	74.00	-22.88	PK
V	4874.00	42.32	30.55	5.77	24.66	42.20	54.00	-11.80	AV
V	7311.00	50.02	30.33	6.32	24.55	50.56	74.00	-23.44	PK
V	7311.00	41.92	30.33	6.32	24.55	42.46	54.00	-11.54	AV
V	9748.00	50.07	30.85	7.45	24.69	51.36	74.00	-22.64	PK
V	9748.00	41.96	30.85	7.45	24.69	43.25	54.00	-10.75	AV
V	12185.00	49.98	31.02	8.99	25.57	53.52	74.00	-20.48	PK
V	12185.00	41.99	31.02	8.99	25.57	45.53	54.00	-8.47	AV
H	4874.00	52.27	30.55	5.77	24.66	52.15	74.00	-21.85	PK
H	4874.00	42.11	30.55	5.77	24.66	41.99	54.00	-12.01	AV
H	7311.00	52.29	30.33	6.32	24.55	52.83	74.00	-21.17	PK
H	7311.00	42.16	30.33	6.32	24.55	42.70	54.00	-11.30	AV
H	9748.00	53.32	30.85	7.45	24.69	54.61	74.00	-19.39	PK
H	9748.00	41.23	30.85	7.45	24.69	42.52	54.00	-11.48	AV
H	12185.00	53.39	31.02	8.99	25.57	56.93	74.00	-17.07	PK
H	12185.00	41.27	31.02	8.99	25.57	44.81	54.00	-9.19	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	50.89	30.55	5.77	24.66	50.77	74.00	-23.23	PK
V	4924.00	42.66	30.55	5.77	24.66	42.54	54.00	-11.46	AV
V	7386.00	53.72	30.33	6.32	24.55	54.26	74.00	-19.74	PK
V	7386.00	43.08	30.33	6.32	24.55	43.62	54.00	-10.38	AV
V	9848.00	53.26	30.85	7.45	24.69	54.55	74.00	-19.45	PK
V	9848.00	43.52	30.85	7.45	24.69	44.81	54.00	-9.19	AV
V	12310.00	53.26	31.02	8.99	25.57	56.8	74.00	-17.20	PK
V	12310.00	42.95	31.02	8.99	25.57	46.49	54.00	-7.51	AV
H	4924.00	51.16	30.55	5.77	24.66	51.04	74.00	-22.96	PK
H	4924.00	42.97	30.55	5.77	24.66	42.85	54.00	-11.15	AV
H	7386.00	51.98	30.33	6.32	24.55	52.52	74.00	-21.48	PK
H	7386.00	43.22	30.33	6.32	24.55	43.76	54.00	-10.24	AV
H	9848.00	53.16	30.85	7.45	24.69	54.45	74.00	-19.55	PK
H	9848.00	43.25	30.85	7.45	24.69	44.54	54.00	-9.46	AV
H	12310.00	53.25	31.02	8.99	25.57	56.79	74.00	-17.21	PK
H	12310.00	43.29	31.02	8.99	25.57	46.83	54.00	-7.17	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11g

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2412MHz									
V	4824.00	52.25	30.55	5.77	24.66	52.13	74.00	-21.87	PK
V	4824.00	41.96	30.55	5.77	24.66	41.84	54.00	-12.16	AV
V	7236.00	49.98	30.33	6.32	24.55	50.52	74.00	-23.48	PK
V	7236.00	42.95	30.33	6.32	24.55	43.49	54.00	-10.51	AV
V	9648.00	49.95	30.85	7.45	24.69	51.24	74.00	-22.76	PK
V	9648.00	42.36	30.85	7.45	24.69	43.65	54.00	-10.35	AV
V	12060.00	50.11	31.02	8.99	25.57	53.65	74.00	-20.35	PK
V	12060.00	42.39	31.02	8.99	25.57	45.93	54.00	-8.07	AV
H	4824.00	52.21	30.55	5.77	24.66	52.09	74.00	-21.91	PK
H	4824.00	41.25	30.55	5.77	24.66	41.13	54.00	-12.87	AV
H	7236.00	50.26	30.33	6.32	24.55	50.8	74.00	-23.20	PK
H	7236.00	41.55	30.33	6.32	24.55	42.09	54.00	-11.91	AV
H	9648.00	50.33	30.85	7.45	24.69	51.62	74.00	-22.38	PK
H	9648.00	42.65	30.85	7.45	24.69	43.94	54.00	-10.06	AV
H	12060.00	50.36	31.02	8.99	25.57	53.9	74.00	-20.10	PK
H	12060.00	41.65	31.02	8.99	25.57	45.19	54.00	-8.81	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	51.22	30.55	5.77	24.66	51.1	74.00	-22.90	PK
V	4874.00	42.18	30.55	5.77	24.66	42.06	54.00	-11.94	AV
V	7311.00	49.95	30.33	6.32	24.55	50.49	74.00	-23.51	PK
V	7311.00	42.05	30.33	6.32	24.55	42.59	54.00	-11.41	AV
V	9748.00	49.08	30.85	7.45	24.69	50.37	74.00	-23.63	PK
V	9748.00	41.26	30.85	7.45	24.69	42.55	54.00	-11.45	AV
V	12185.00	49.97	31.02	8.99	25.57	53.51	74.00	-20.49	PK
V	12185.00	41.25	31.02	8.99	25.57	44.79	54.00	-9.21	AV
H	4874.00	51.36	30.55	5.77	24.66	51.24	74.00	-22.76	PK
H	4874.00	41.33	30.55	5.77	24.66	41.21	54.00	-12.79	AV
H	7311.00	52.29	30.33	6.32	24.55	52.83	74.00	-21.17	PK
H	7311.00	41.95	30.33	6.32	24.55	42.49	54.00	-11.51	AV
H	9748.00	52.35	30.85	7.45	24.69	53.64	74.00	-20.36	PK
H	9748.00	41.19	30.85	7.45	24.69	42.48	54.00	-11.52	AV
H	12185.00	53.26	31.02	8.99	25.57	56.8	74.00	-17.20	PK
H	12185.00	41.65	31.02	8.99	25.57	45.19	54.00	-8.81	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	50.66	30.55	5.77	24.66	50.54	74.00	-23.46	PK
V	4924.00	41.56	30.55	5.77	24.66	41.44	54.00	-12.56	AV
V	7386.00	52.36	30.33	6.32	24.55	52.9	74.00	-21.10	PK
V	7386.00	42.95	30.33	6.32	24.55	43.49	54.00	-10.51	AV
V	9848.00	52.48	30.85	7.45	24.69	53.77	74.00	-20.23	PK
V	9848.00	42.56	30.85	7.45	24.69	43.85	54.00	-10.15	AV
V	12310.00	53.55	31.02	8.99	25.57	57.09	74.00	-16.91	PK
V	12310.00	41.89	31.02	8.99	25.57	45.43	54.00	-8.57	AV
H	4924.00	51.37	30.55	5.77	24.66	51.25	74.00	-22.75	PK
H	4924.00	41.99	30.55	5.77	24.66	41.87	54.00	-12.13	AV
H	7386.00	51.75	30.33	6.32	24.55	52.29	74.00	-21.71	PK
H	7386.00	43.25	30.33	6.32	24.55	43.79	54.00	-10.21	AV
H	9848.00	53.41	30.85	7.45	24.69	54.7	74.00	-19.30	PK
H	9848.00	42.98	30.85	7.45	24.69	44.27	54.00	-9.73	AV
H	12310.00	52.37	31.02	8.99	25.57	55.91	74.00	-18.09	PK
H	12310.00	43.28	31.02	8.99	25.57	46.82	54.00	-7.18	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11n20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	52.25	30.55	5.77	24.66	52.13	74.00	-21.87	PK
V	4824.00	41.96	30.55	5.77	24.66	41.84	54.00	-12.16	AV
V	7236.00	48.85	30.33	6.32	24.55	49.39	74.00	-24.61	PK
V	7236.00	42.95	30.33	6.32	24.55	43.49	54.00	-10.51	AV
V	9648.00	50.17	30.85	7.45	24.69	51.46	74.00	-22.54	PK
V	9648.00	42.36	30.85	7.45	24.69	43.65	54.00	-10.35	AV
V	12060.00	49.95	31.02	8.99	25.57	53.49	74.00	-20.51	PK
V	12060.00	42.31	31.02	8.99	25.57	45.85	54.00	-8.15	AV
H	4824.00	51.37	30.55	5.77	24.66	51.25	74.00	-22.75	PK
H	4824.00	42.33	30.55	5.77	24.66	42.21	54.00	-11.79	AV
H	7236.00	51.36	30.33	6.32	24.55	51.9	74.00	-22.1	PK
H	7236.00	41.46	30.33	6.32	24.55	42	54.00	-12	AV
H	9648.00	50.25	30.85	7.45	24.69	51.54	74.00	-22.46	PK
H	9648.00	42.36	30.85	7.45	24.69	43.65	54.00	-10.35	AV
H	12060.00	51.33	31.02	8.99	25.57	54.87	74.00	-19.13	PK
H	12060.00	41.52	31.02	8.99	25.57	45.06	54.00	-8.94	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	51.23	30.55	5.77	24.66	51.11	74.00	-22.89	PK
V	4874.00	42.11	30.55	5.77	24.66	41.99	54.00	-12.01	AV
V	7311.00	48.06	30.33	6.32	24.55	48.6	74.00	-25.4	PK
V	7311.00	41.88	30.33	6.32	24.55	42.42	54.00	-11.58	AV
V	9748.00	50.02	30.85	7.45	24.69	51.31	74.00	-22.69	PK
V	9748.00	41.66	30.85	7.45	24.69	42.95	54.00	-11.05	AV
V	12185.00	49.95	31.02	8.99	25.57	53.49	74.00	-20.51	PK
V	12185.00	41.26	31.02	8.99	25.57	44.8	54.00	-9.2	AV
H	4874.00	51.36	30.55	5.77	24.66	51.24	74.00	-22.76	PK
H	4874.00	41.36	30.55	5.77	24.66	41.24	54.00	-12.76	AV
H	7311.00	53.22	30.33	6.32	24.55	53.76	74.00	-20.24	PK
H	7311.00	41.96	30.33	6.32	24.55	42.5	54.00	-11.5	AV
H	9748.00	53.26	30.85	7.45	24.69	54.55	74.00	-19.45	PK
H	9748.00	41.26	30.85	7.45	24.69	42.55	54.00	-11.45	AV
H	12185.00	53.33	31.02	8.99	25.57	56.87	74.00	-17.13	PK
H	12185.00	42.33	31.02	8.99	25.57	45.87	54.00	-8.13	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	50.29	30.55	5.77	24.66	50.17	74.00	-23.83	PK
V	4924.00	42.36	30.55	5.77	24.66	42.24	54.00	-11.76	AV
V	7386.00	53.24	30.33	6.32	24.55	53.78	74.00	-20.22	PK
V	7386.00	42.38	30.33	6.32	24.55	42.92	54.00	-11.08	AV
V	9848.00	53.26	30.85	7.45	24.69	54.55	74.00	-19.45	PK
V	9848.00	43.44	30.85	7.45	24.69	44.73	54.00	-9.27	AV
V	12310.00	52.33	31.02	8.99	25.57	55.87	74.00	-18.13	PK
V	12310.00	42.38	31.02	8.99	25.57	45.92	54.00	-8.08	AV
H	4924.00	51.26	30.55	5.77	24.66	51.14	74.00	-22.86	PK
H	4924.00	42.75	30.55	5.77	24.66	42.63	54.00	-11.37	AV
H	7386.00	51.62	30.33	6.32	24.55	52.16	74.00	-21.84	PK
H	7386.00	43.25	30.33	6.32	24.55	43.79	54.00	-10.21	AV
H	9848.00	53.23	30.85	7.45	24.69	54.52	74.00	-19.48	PK
H	9848.00	43.25	30.85	7.45	24.69	44.54	54.00	-9.46	AV
H	12310.00	52.99	31.02	8.99	25.57	56.53	74.00	-17.47	PK
H	12310.00	43.28	31.02	8.99	25.57	46.82	54.00	-7.18	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11n40

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2422MHz									
V	4844.00	52.39	30.55	5.77	24.66	52.27	74.00	-21.73	PK
V	4844.00	42.36	30.55	5.77	24.66	42.24	54.00	-11.76	AV
V	7266.00	51.28	30.33	6.32	24.55	51.82	74.00	-22.18	PK
V	7266.00	42.18	30.33	6.32	24.55	42.72	54.00	-11.28	AV
V	9688.00	50.99	30.85	7.45	24.69	52.28	74.00	-21.72	PK
V	9688.00	42.37	30.85	7.45	24.69	43.66	54.00	-10.34	AV
V	12110.00	50.18	31.02	8.99	25.57	53.72	74.00	-20.28	PK
V	12110.00	41.28	31.02	8.99	25.57	44.82	54.00	-9.18	AV
H	4844.00	51.39	30.55	5.77	24.66	51.27	74.00	-22.73	PK
H	4844.00	42.36	30.55	5.77	24.66	42.24	54.00	-11.76	AV
H	7266.00	51.68	30.33	6.32	24.55	52.22	74.00	-21.78	PK
H	7266.00	42.37	30.33	6.32	24.55	42.91	54.00	-11.09	AV
H	9688.00	51.16	30.85	7.45	24.69	52.45	74.00	-21.55	PK
H	9688.00	42.39	30.85	7.45	24.69	43.68	54.00	-10.32	AV
H	12110.00	51.32	31.02	8.99	25.57	54.86	74.00	-19.14	PK
H	12110.00	41.33	31.02	8.99	25.57	44.87	54.00	-9.13	AV

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	51.99	30.55	5.77	24.66	51.87	74.00	-22.13	PK
V	4874.00	42.24	30.55	5.77	24.66	42.12	54.00	-11.88	AV
V	7311.00	51.15	30.33	6.32	24.55	51.69	74.00	-22.31	PK
V	7311.00	41.62	30.33	6.32	24.55	42.16	54.00	-11.84	AV
V	9748.00	50.14	30.85	7.45	24.69	51.43	74.00	-22.57	PK
V	9748.00	42.35	30.85	7.45	24.69	43.64	54.00	-10.36	AV
V	12185.00	50.07	31.02	8.99	25.57	53.61	74.00	-20.39	PK
V	12185.00	42.18	31.02	8.99	25.57	45.72	54.00	-8.28	AV
H	4874.00	52.13	30.55	5.77	24.66	52.01	74.00	-21.99	PK
H	4874.00	42.15	30.55	5.77	24.66	42.03	54.00	-11.97	AV
H	7311.00	53.21	30.33	6.32	24.55	53.75	74.00	-20.25	PK
H	7311.00	43.28	30.33	6.32	24.55	43.82	54.00	-10.18	AV
H	9748.00	51.25	30.85	7.45	24.69	52.54	74.00	-21.46	PK
H	9748.00	41.99	30.85	7.45	24.69	43.28	54.00	-10.72	AV
H	12185.00	50.48	31.02	8.99	25.57	54.02	74.00	-19.98	PK
H	12185.00	42.14	31.02	8.99	25.57	45.68	54.00	-8.32	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2452MHz									
V	4904.00	50.29	30.55	5.77	24.66	50.17	74.00	-23.83	PK
V	4904.00	42.66	30.55	5.77	24.66	42.54	54.00	-11.46	AV
V	7356.00	51.65	30.33	6.32	24.55	52.19	74.00	-21.81	PK
V	7356.00	42.39	30.33	6.32	24.55	42.93	54.00	-11.07	AV
V	9808.00	51.99	30.85	7.45	24.69	53.28	74.00	-20.72	PK
V	9808.00	43.26	30.85	7.45	24.69	44.55	54.00	-9.45	AV
V	12260.00	53.28	31.02	8.99	25.57	56.82	74.00	-17.18	PK
V	12260.00	43.18	31.02	8.99	25.57	46.72	54.00	-7.28	AV
H	4904.00	51.17	30.55	5.77	24.66	51.05	74.00	-22.95	PK
H	4904.00	42.56	30.55	5.77	24.66	42.44	54.00	-11.56	AV
H	7356.00	51.28	30.33	6.32	24.55	51.82	74.00	-22.18	PK
H	7356.00	43.29	30.33	6.32	24.55	43.83	54.00	-10.17	AV
H	9808.00	51.27	30.85	7.45	24.69	52.56	74.00	-21.44	PK
H	9808.00	43.26	30.85	7.45	24.69	44.55	54.00	-9.45	AV
H	12260.00	51.33	31.02	8.99	25.57	54.87	74.00	-19.13	PK
H	12260.00	42.58	31.02	8.99	25.57	46.12	54.00	-7.88	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

5. RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above	Peak	1MHz	3MHz	Peak
	1GHz	Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel

Note:

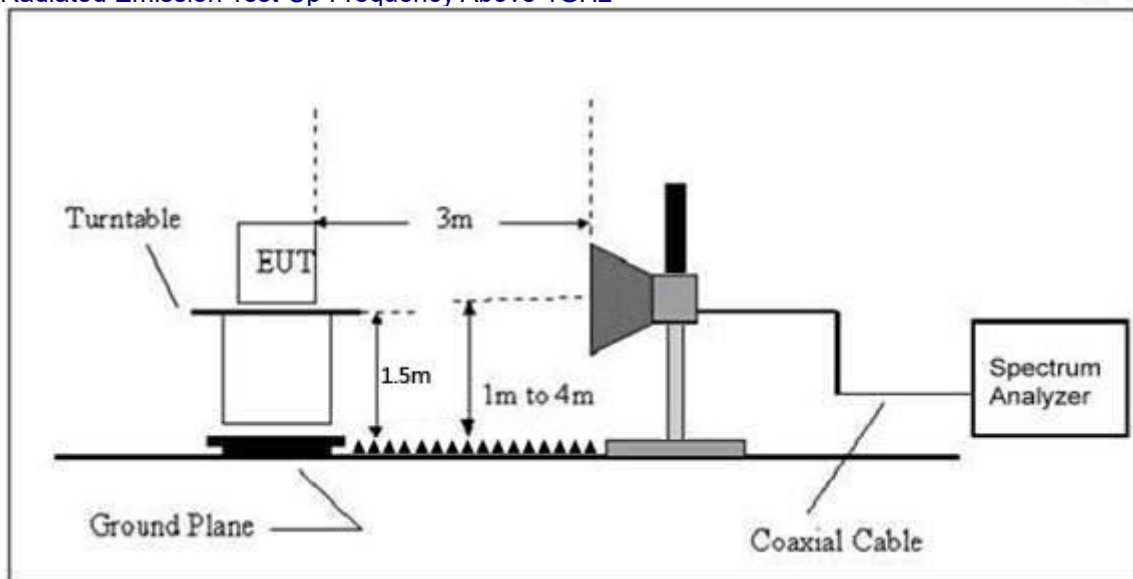
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.