

# Test Report

**Report No.:** MTi221122006-01E2

**Date of issue:** 2022-12-14

**Applicant:** Bouffalo Lab (Nanjing) Co., Ltd

**Product:** BL602 Module

**Model(s):** BL602C40IT16P00

**FCC ID:** 2A9HW-BL602

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

## Instructions

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2. The test results in this test report are only responsible for the samples submitted
3. This test report is invalid without the seal and signature of the laboratory.
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5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

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<b>Applicant:</b>	<b>Bouffalo Lab (Nanjing) Co., Ltd</b>
Address:	5F, Building A, No. 9 Yunzheng Street, Jiangbei New District, Nanjing, China
<b>Manufacturer:</b>	<b>Shenzhen Anxinke Technology Co., Ltd</b>
Address:	Room410, Building C, Huafeng Intelligence Innovation Port, Gushu, Xixiang, Baoan District, Shenzhen
<b>Factory:</b>	<b>Shenzhen Anxinke Technology Co., Ltd</b>
Address:	Floor 3, Building A, Dongfang Industrial Park, Sixth Industrial Zone, Dachai Village, Nanlang Town, Zhongshan City, Guangdong Province
<b>Product description</b>	
Product name:	BL602 Module
Trademark:	Bouffalo Lab
Model name:	BL602C40IT16P00
Serial Model:	N/A
Standards:	FCC 47 CFR Part 15 Subpart C
Test method:	ANSI C63.10-2013
<b>Date of Test</b>	
Date of test:	2022-12-05~2022-12-14
Test result:	Pass

**Test Engineer :**
*Letter. Lan.*

(Letter Lan)

**Reviewed By:**
*Leon Chen*

(Leon Chen)

**Approved By:**
*Tom Xue*

(Tom Xue)

## 1 General Description

### 1.1 Description of the EUT

Product name:	BL602 Module
Model name:	BL602C40IT16P00
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Input: DC 3.3V
Hardware version:	V1.3
Software version:	V2.62
Accessories:	N/A
Test sample(s) number:	MTi221122006-01S1001
<b>RF specification:</b>	
Operation frequency:	802.11b/g/n20:2412~2462 MHz
Modulation type:	IEEE 802.11b: DSSS (DBPSK, DQPSK, CCK) IEEE 802.11g/n (HT20): OFDM (64QAM, 16QAM, QPSK, BPSK)
Date Rate:	802.11b:1/2/5.5/11 Mbit/s 802.11g:6/9/12/18/24/36/48/54 Mbit/s 802.11n(20MHz) use 800 ns GI: 6.5/13/19.5/26/39/52/58.5/65 Mbit/s
Antenna(s) information:	Antenna type: PCB antenna Antenna gain: 2.36 dBi

## 1.2 Description of test modes

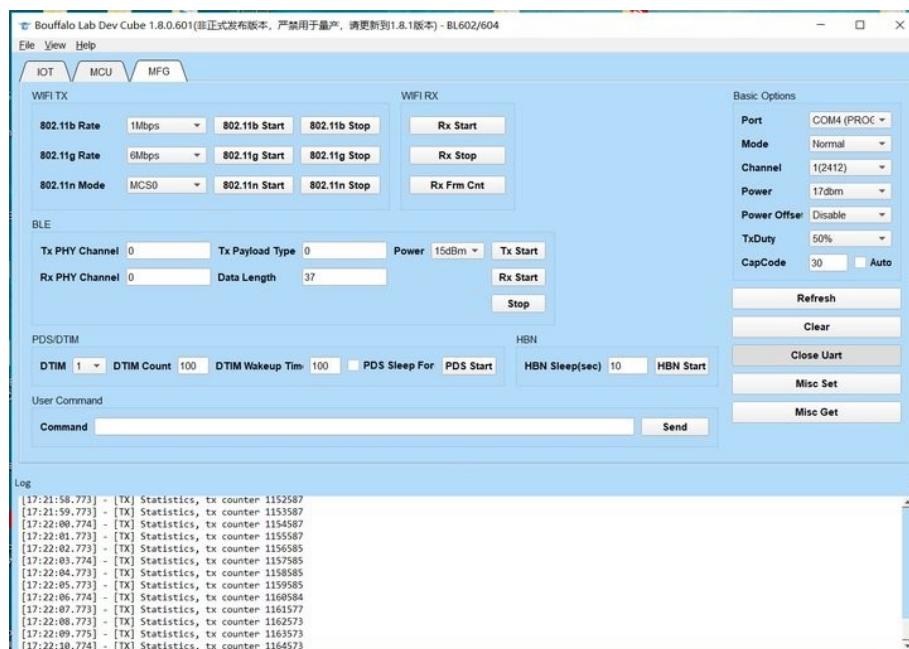
### 1.2.1 Operation channel list

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

**Note:** The test software has been used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software:		BLDevCube	
802.112b		802.11g	
Channel	Power setting	Channel	Power setting
1	19	1	17
6	19	6	17
11	19	11	17
802.112n (HT20)			
Channel	Power setting		
1	16		
6	16		
11	16		

### The test software:



### 1.3 Environmental conditions for testing

Environment of test site:

Temperature:	15°C~35°C
Humidity:	20 % RH ~ 75 % RH

### 1.4 Description of support units

<b>Support equipment list</b>			
Description	Model	Serial No.	Manufacturer
Laptop	e485	/	lenovo
<b>Support cable list</b>			
Description	Length (m)	From	To
/	/	/	/

## 2 Measurement uncertainty

Parameter	Measurement uncertainty
AC power line conducted emission (9 kHz~30 MHz)	±2.5 dB
Occupied Bandwidth	±3 %
Conducted RF output power	±0.16 dB
Conducted spurious emissions	±0.21 dB
Radiated emission (9 kHz ~ 30 MHz)	±4.0 dB
Radiated emission (30 MHz~1 GHz)	±4.2 dB
Radiated emission (above 1 GHz)	±4.3 dB

**Note:** the measurement uncertainty is calculated and correspond to a factor  $k = 2$  (which provide confidence levels of 95.45 %)

### 3 Summary of Test Result

No.	FCC reference	Description of test	Result
1	§ 15.203	Antenna requirement	Pass
2	§ 15.207	AC power line conducted emissions	Pass
3	§ 15.247(d)	Radiated spurious emissions	Pass
4	15.247(a)(2)	DTS bandwidth	Pass
5	15.247(b)(3)	Maximum conducted output power	Pass
6	15.247(e)	Power Spectral Density	Pass
7	15.247(d)	Band edge (Conducted)	Pass
8	15.247(d)	Conducted spurious emissions	Pass
9	/	Duty Cycle	Pass

## 4 Test Laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573

## 5 Equipment List

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTi-E002	EMI Test Receiver	R&S	ESCI3	101368	2022/05/05	2023/05/04
MTi-E023	Artificial power network	Schwarzbeck	NSLK8127	NSLK8127# 841	2022/05/05	2023/05/04
MTi-E025	Artificial power network	Schwarzbeck	NSLK8127	8127183	2022/05/05	2023/05/04
MTI-E043	EMI test receiver	R&S	ESCI7	101166	2022/05/05	2023/05/04
MTI-E046	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00044	2021/05/30	2023/05/29
MTI-E044	Broadband antenna	Schwarzbeck	VULB9163	9163-1338	2021/05/30	2023/05/29
MTI-E045	Horn antenna	Schwarzbeck	BBHA9120D	9120D-2278	2021/05/30	2023/05/29
MTI-E047	Pre-amplifier	Hewlett-Packard	8447F	3113A06184	2022/05/05	2023/05/04
MTI-E048	Pre-amplifier	Agilent	8449B	3008A01120	2022/05/05	2023/05/04
MTi-E120	Broadband antenna	Schwarzbeck	VULB9163	9163-1419	2021/05/30	2023/05/29
MTi-E121	Pre-amplifier	Hewlett-Packard	8447D	2944A09365	2022/04/15	2023/04/14
MTi-E123	Pre-amplifier	Agilent	8449B	3008A04723	2022/05/05	2023/05/04
MTi-E135	Horn antenna	Schwarzbeck	BBHA 9170	00987	2021/05/30	2023/05/29
MTi-E136	Pre-amplifier	Space-Dtronics	E WLAN1840 G-G45	210405001	2022/05/05	2023/05/04
MTi-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2022/05/05	2023/05/04
MTi-E067	RF Control Unit	Tonscend	JS0806-1	19D8060152	2022/05/05	2023/05/04
MTi-E068	RF Control Unit	Tonscend	JS0806-2	19D8060153	2022/05/05	2023/05/04
MTi-E069	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2022/05/05	2023/05/04
MTi-E010S	EMI Measurement Software	Farad	EZ-EMC Ver. EMEC-3A1	/	/	/
MTi-E014S	RF Test System	Tonscend	TS@JS1120 V2.6.88.0330	/	/	/

**Note:** the calibration interval of the test equipment is 12 or 24 months and the calibrations are traceable to international system unit(SI)

## 6 Test Result

### 6.1 Antenna requirement

#### 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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

#### Description of the antenna of EUT

The antenna of the EUT is permanently attached.

#### Conclusion:

The EUT complies with the requirement of § 15.203.

## 6.2 AC power line conducted emissions

### 6.2.1 Limits

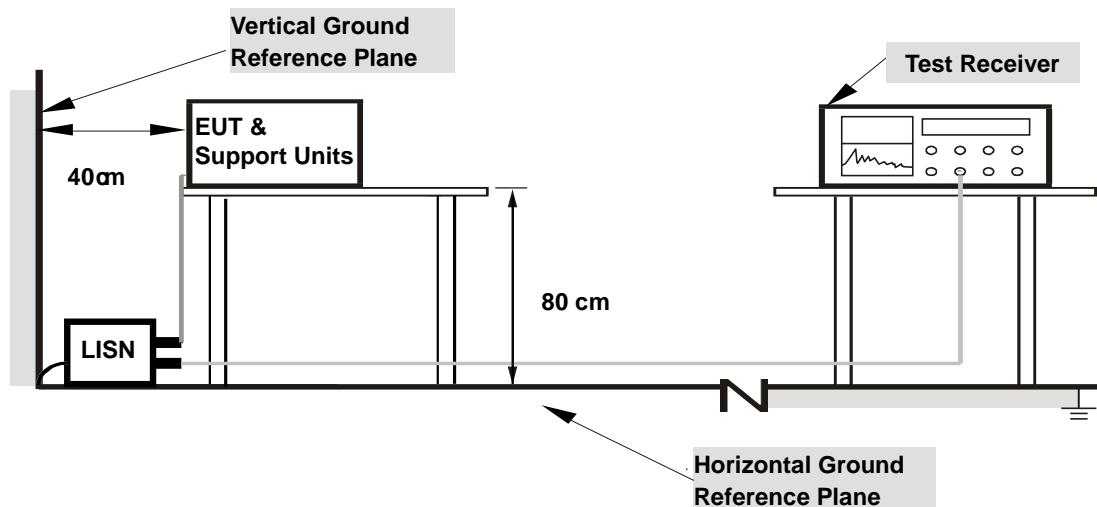
Frequency (MHz)	Detector type / Bandwidth	Limit-Quasi-peak dB $\mu$ V	Limit-Average dB $\mu$ V
0.15 -0.5	Average / 9 kHz	66 to 56	56 to 46
0.5 -5		56	46
5 -30		60	50

**Note 1:** the limit decreases with the logarithm of the frequency in the range of 0.15 MHz to 0.5 MHz.

### 6.2.2 Test Procedures

- Test method: ANSI C63.10-2013 Section 6.2.
- The EUT is connected to the main power through a line impedance stabilization network (LISN). All support equipment is powered from additional LISN(s).
- Emissions were measured on each current carrying line of the EUT using an EMI test receiver connected to the LISN powering the EUT.
- The test receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes described in Item 1.2.
- The test data of the worst-case condition(s) was recorded.

### 6.2.3 Test setup



For the actual test configuration, please refer to the related item – Photographs of the test setup.

### 6.2.4 Test Result

#### Notes:

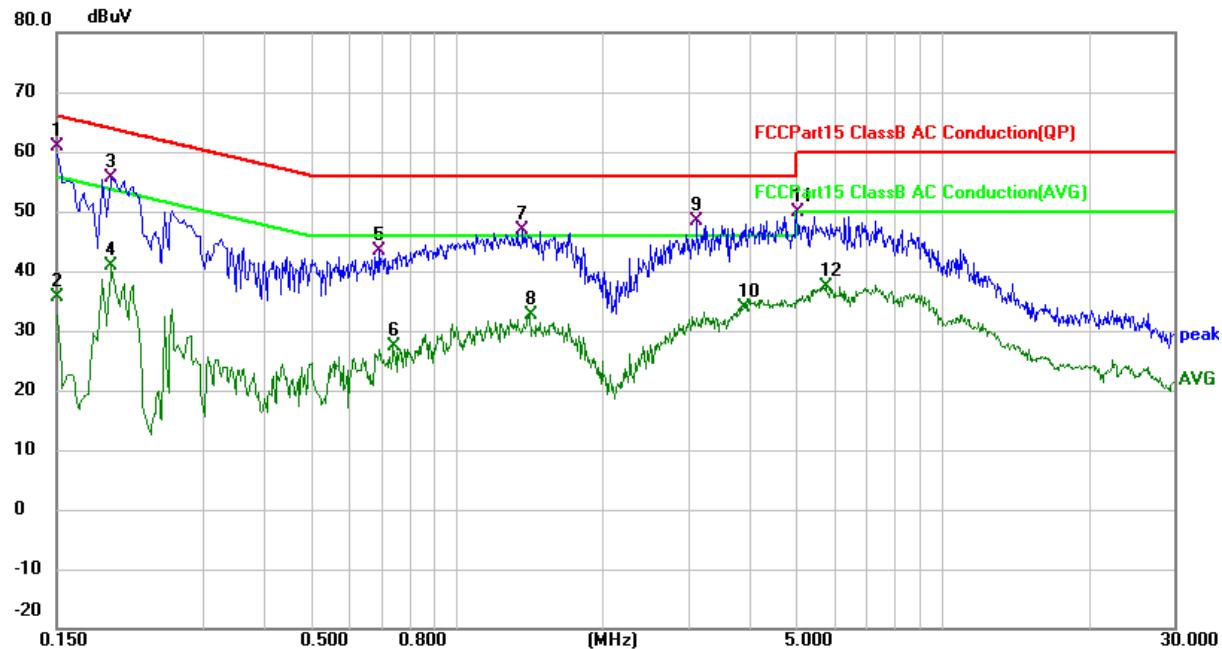
All modes of operation of the EUT were investigated, and only the worst-case results are reported.

#### Calculation formula:

Measurement (dB $\mu$ V) = Reading Level (dB $\mu$ V) + Correct Factor (dB)  
 Over (dB) = Measurement (dB $\mu$ V) – Limit (dB $\mu$ V)



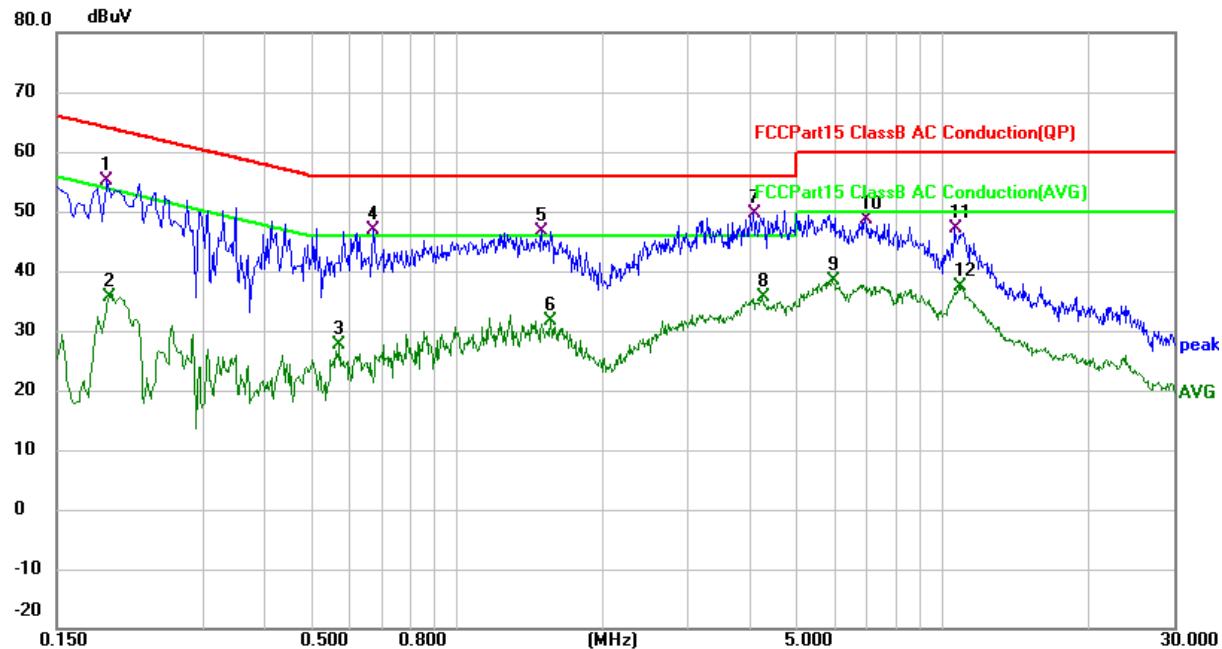
Test mode:	TX – 802.11b 2437MHz	Phase:	L
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	CE chamber 1



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV	dBuV	dB	
1	*	0.1500	50.59	10.28	60.87	66.00	-5.13	QP
2		0.1500	25.37	10.28	35.65	56.00	-20.35	AVG
3		0.1940	45.08	10.66	55.74	63.86	-8.12	QP
4		0.1940	30.20	10.66	40.86	53.86	-13.00	AVG
5		0.6900	31.58	11.75	43.33	56.00	-12.67	QP
6		0.7420	15.55	11.85	27.40	46.00	-18.60	AVG
7		1.3700	33.95	13.00	46.95	56.00	-9.05	QP
8		1.4180	19.51	13.08	32.59	46.00	-13.41	AVG
9		3.1300	38.16	10.27	48.43	56.00	-7.57	QP
10		3.9180	23.69	10.27	33.96	46.00	-12.04	AVG
11		5.0180	39.65	10.26	49.91	60.00	-10.09	QP
12		5.7500	27.16	10.26	37.42	50.00	-12.58	AVG



Test mode:	TX – 802.11b 2437MHz	Phase:	N
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	CE chamber 1



No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Detector
			Level dBuV	Factor dB	ment dBuV			
1	0.1900	44.65	10.60	55.25	64.04	-8.79		QP
2	0.1924	25.08	10.59	35.67	53.93	-18.26		AVG
3	0.5740	16.22	11.49	27.71	46.00	-18.29		AVG
4	0.6740	35.09	11.71	46.80	56.00	-9.20		QP
5	1.5020	33.12	13.40	46.52	56.00	-9.48		QP
6	1.5660	18.12	13.55	31.67	46.00	-14.33		AVG
7 *	4.0860	39.22	10.29	49.51	56.00	-6.49		QP
8	4.2540	25.34	10.28	35.62	46.00	-10.38		AVG
9	5.9420	27.99	10.27	38.26	50.00	-11.74		AVG
10	6.9220	38.35	10.28	48.63	60.00	-11.37		QP
11	10.5820	36.68	10.34	47.02	60.00	-12.98		QP
12	10.8979	27.16	10.34	37.50	50.00	-12.50		AVG

## 6.3 Radiated spurious emission

### 6.3.1 Limits

§ 15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

### § 15.209 Radiated emission limits at restricted bands:

Frequency (MHz)	Field strength (microvolts/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

**Note 1:** the tighter limit applies at the band edges.

**Note 2:** the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

### § 15.35 (b) requirements:

When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, e.g., see §§ 15.250, 15.252, 15.253(d), 15.255, 15.256, and 15.509 through 15.519, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

According to ANSI C63.10-2013, the tests shall be performed in the frequency range shown in the following table:

**Frequency range of measurements for unlicensed wireless device**

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

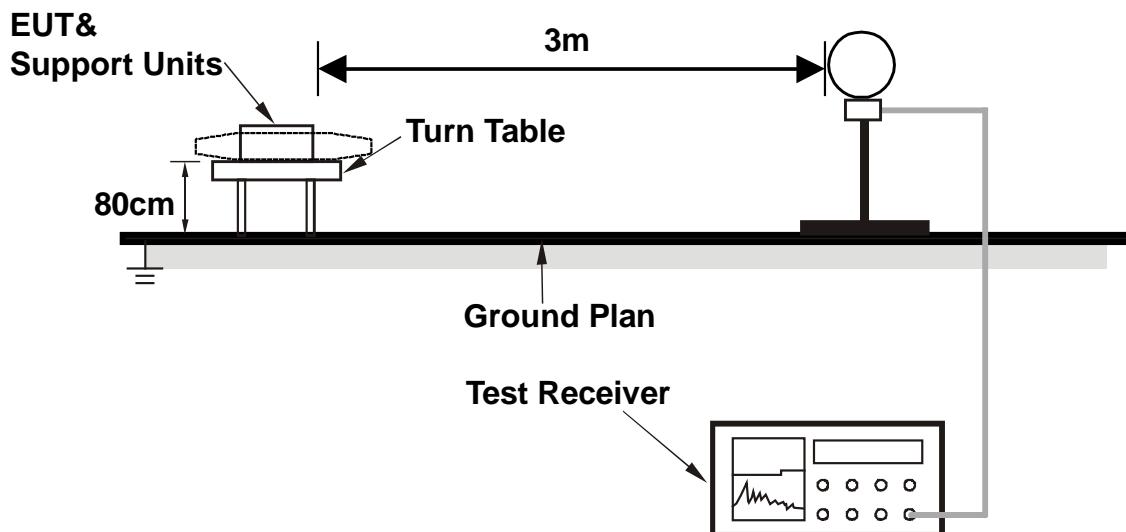
**Frequency range of measurements for unlicensed wireless device with digital device**

Highest frequency generated or used in the device or on which the device operates or tunes	Upper frequency range of measurement
Below 1.705 MHz	30 MHz
1.705 MHz to 108 MHz	1000 MHz
108 MHz to 500 MHz	2000 MHz
500 MHz to 1000 MHz	5000 MHz
Above 1000 MHz	5th harmonic of the highest frequency or 40 GHz, whichever is lower

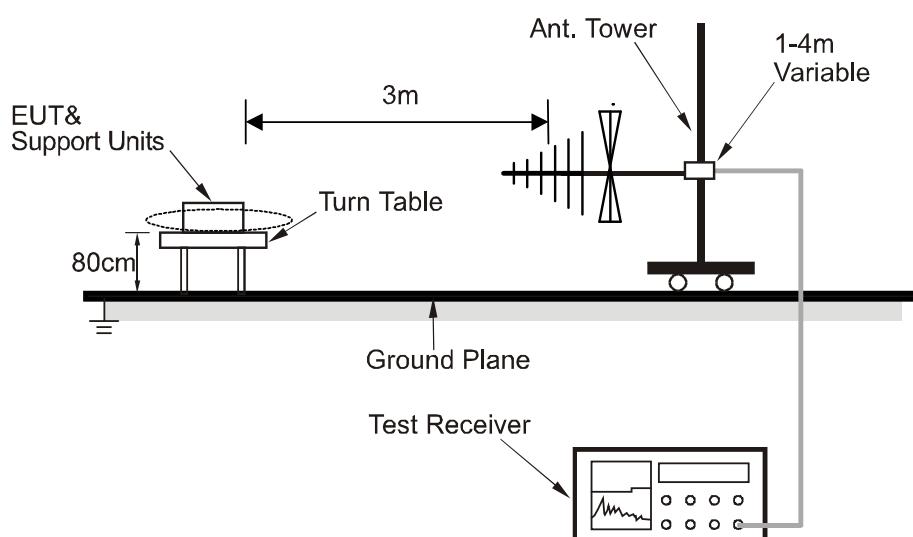


### 6.3.2 Test setup

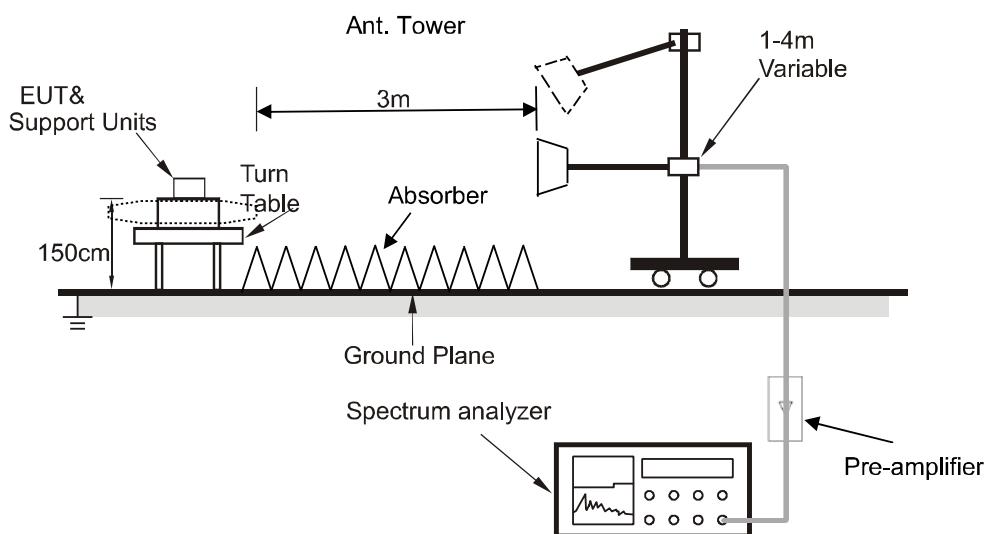
Below 30MHz:



30MHz~1GHz:



Above 1GHz:



For the actual test configuration, please refer to the related item – Photographs of the test setup.

### 6.3.3 Test procedure

- a) Test method: ANSI C63.10-2013 Section 6.3, 6.4, 6.5, 6.6, 11.11, 11.12, 11.13.
- b) The EUT is placed on an on-conducting table 0.8 meters above the ground plane for measurement below 1GHz, 1.5 meters above the ground plane for measurement above 1GHz.
- c) Emission below 18 GHz were measured at a 3 meters test distance, above 18 GHz were measured at 1-meter test distance with the application of a distance correction factor
- d) The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

### Test instrument setup

Frequency	Test receiver / Spectrum analyzer setting
9 kHz ~ 150 kHz	Quasi Peak / RBW: 200 Hz
150 kHz ~ 30 MHz	Quasi Peak / RBW: 9 kHz
30 MHz ~ 1 GHz	Quasi Peak / RBW: 120 kHz
Above 1 GHz	Peak / RBW: 1 MHz, VBW: 3MHz, Peak detector AVG / RBW: 1 MHz, VBW: 3MHz, Average detector

### 6.3.4 Test results

#### Notes:

The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

All modes of operation of the EUT were investigated, and only the worst-case results are reported. There were no emissions found below 30MHz within 20dB of the limit.

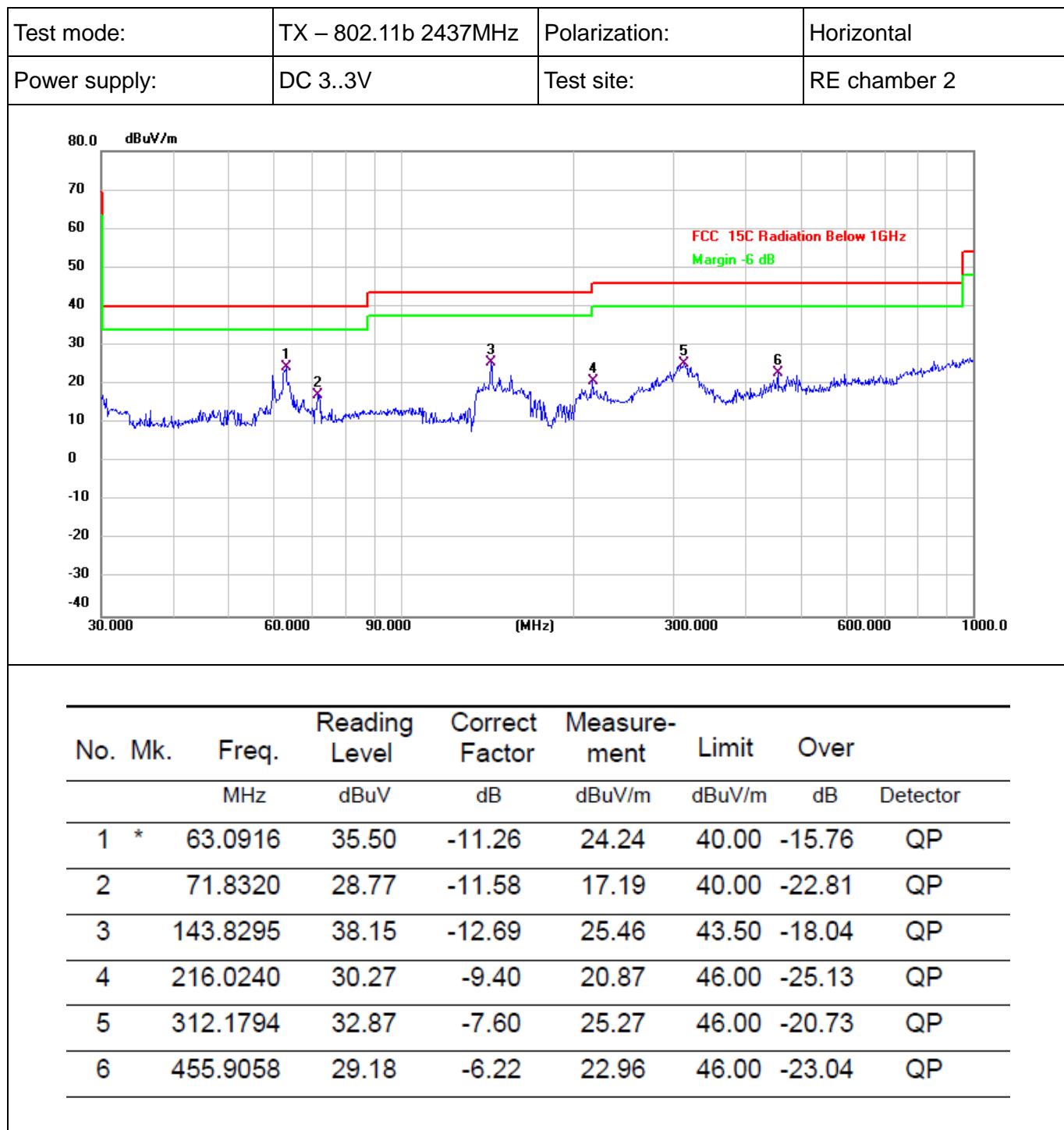
#### Calculation formula:

Measurement (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Correct Factor (dB/m)

Over (dB) = Measurement (dB $\mu$ V/m) – Limit (dB $\mu$ V/m)

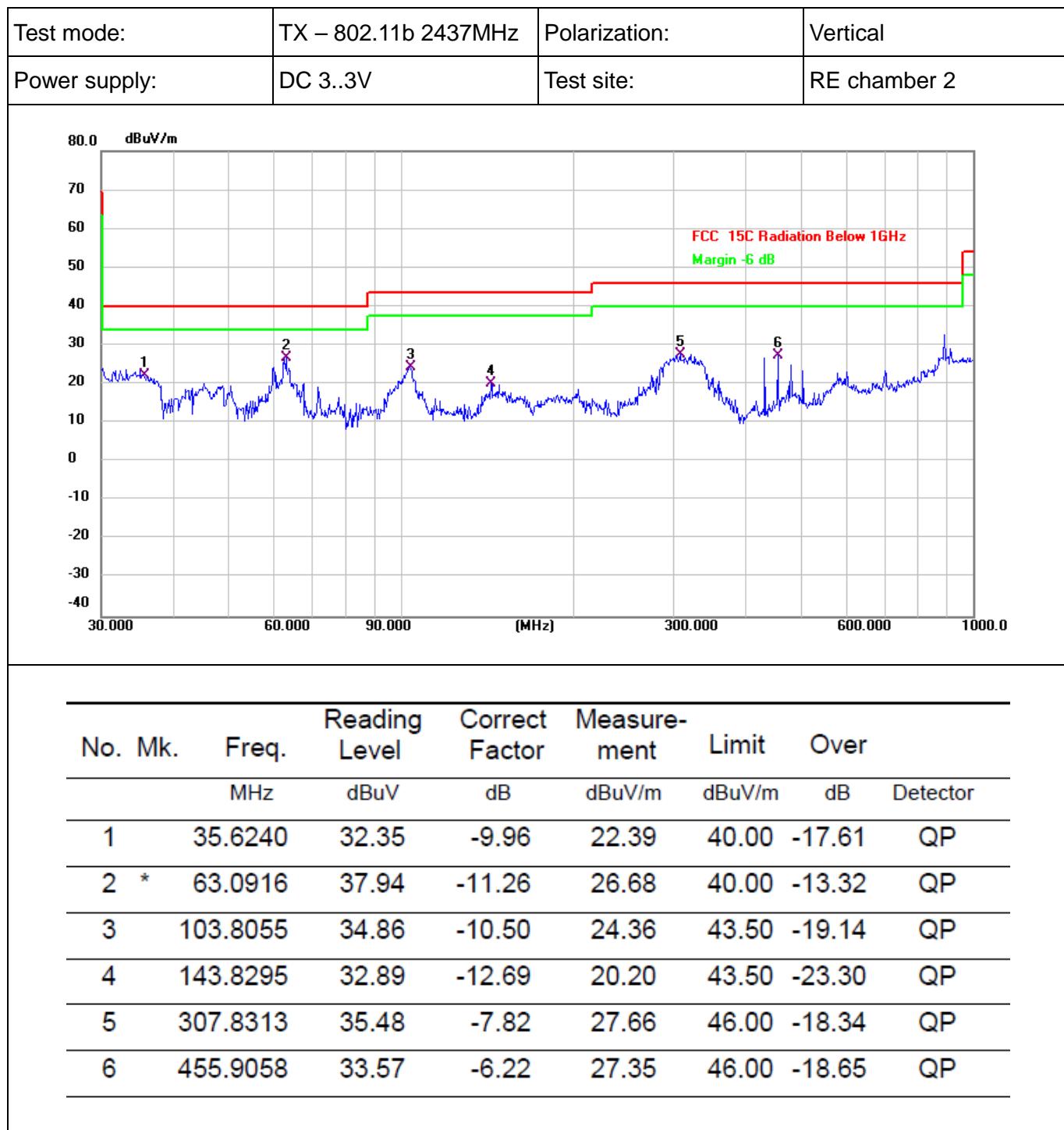


**Radiated emissions between 30MHz – 1GHz**





**Radiated emissions between 30MHz – 1GHz**





**Radiated emissions 1 GHz ~ 25 GHz**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB/m)	Measurement (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Over (dB)	Detector Peak/AVG	Polarization H/V
<b>TX 802.11G 2412MHz</b>							
4824.000	49.63	0.91	50.54	74.00	-23.46	Peak	V
4824.000	46.45	0.91	47.36	54.00	-6.64	Avg	V
7236.000	40.65	5.77	46.42	74.00	-27.58	Peak	V
7236.000	34.48	5.77	40.25	54.00	-13.75	Avg	V
9648.000	41.02	6.29	47.31	74.00	-26.69	Peak	V
9648.000	34.94	6.29	41.23	54.00	-12.77	Avg	V
4824.000	52.88	0.91	53.79	74.00	-20.21	Peak	H
4824.000	49.67	0.91	50.58	54.00	-3.42	Avg	H
7236.000	40.67	5.77	46.44	74.00	-27.56	Peak	H
7236.000	34.51	5.77	40.28	54.00	-13.72	Avg	H
9648.000	42.04	6.29	48.33	74.00	-25.67	Peak	H
9648.000	35.87	6.29	42.16	54.00	-11.84	Avg	H
<b>TX 802.11G 2437MHz</b>							
4874.000	47.42	1.14	48.56	74.00	-25.44	Peak	V
4874.000	44.25	1.14	45.39	54.00	-8.61	Avg	V
7311.000	41.24	5.55	46.79	74.00	-27.21	Peak	V
7311.000	34.99	5.55	40.54	54.00	-13.46	Avg	V
9748.000	40.76	6.21	46.97	74.00	-27.03	Peak	V
9748.000	34.44	6.21	40.65	54.00	-13.35	Avg	V
4874.000	52.77	1.14	53.91	74.00	-20.09	Peak	H
4874.000	49.45	1.14	50.59	54.00	-3.41	Avg	H
7311.000	40.29	5.55	45.84	74.00	-28.16	Peak	H
7311.000	33.78	5.55	39.33	54.00	-14.67	Avg	H
9748.000	41.50	6.22	47.72	74.00	-26.28	Peak	H
9748.000	35.20	6.22	41.42	54.00	-12.58	Avg	H

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB/m)	Measurement (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Over (dB)	Detector Peak/AVG	Polarization H/V
<b>TX 802.11G 2462MHz</b>							
4924.000	52.29	1.37	53.66	74.00	-20.34	Peak	V
4924.000	48.97	1.37	50.34	54.00	-3.66	Avg	V
7386.000	41.89	5.32	47.21	74.00	-26.79	Peak	V
7386.000	35.84	5.32	41.16	54.00	-12.84	Avg	V
9848.000	41.05	6.14	47.19	74.00	-26.81	Peak	V
9848.000	34.97	6.14	41.11	54.00	-12.89	Avg	V
4924.000	47.27	1.37	48.64	74.00	-25.36	Peak	H
4924.000	44.02	1.37	45.39	54.00	-8.61	Avg	H
7386.000	42.35	5.32	47.67	74.00	-26.33	Peak	H
7386.000	35.94	5.32	41.26	54.00	-12.74	Avg	H
9848.000	41.81	6.14	47.95	74.00	-26.05	Peak	H
9848.000	35.49	6.14	41.63	54.00	-12.37	Avg	H

**Radiated emissions at band edge**

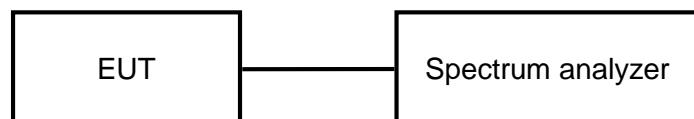
Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dB $\mu$ V)	(dB/m)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	Peak/AVG	H/V
<b>TX 802.11b 2412MHz</b>							
(MHz)	(dB $\mu$ V)	(dB/m)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	Peak/AVG	H/V
2310.000	46.26	-8.20	38.06	74.00	-35.94	Peak	V
2310.000	36.38	-8.20	28.18	54.00	-25.82	AVG	V
2390.000	66.40	-7.83	58.57	74.00	-15.43	Peak	V
2390.000	49.75	-7.83	41.92	54.00	-12.08	AVG	V
2310.000	43.35	-8.20	35.15	74.00	-38.85	Peak	H
2310.000	33.68	-8.20	25.48	54.00	-28.52	AVG	H
2390.000	63.85	-7.83	56.02	74.00	-17.98	Peak	H
2390.000	47.89	-7.83	40.06	54.00	-13.94	AVG	H
<b>TX 802.11b 2462MHz</b>							
2483.500	63.78	-7.39	56.39	74.00	-17.61	Peak	V
2483.500	46.17	-7.39	38.78	54.00	-15.22	AVG	V
2500.000	50.47	-7.32	43.15	74.00	-30.85	Peak	V
2500.000	38.39	-7.32	31.07	54.00	-22.93	AVG	V
2483.500	69.56	-7.39	62.17	74.00	-11.83	Peak	H
2483.500	51.08	-7.39	43.69	54.00	-10.31	AVG	H
2500.000	54.42	-7.32	47.10	74.00	-26.90	Peak	H
2500.000	41.26	-7.32	33.94	54.00	-20.06	AVG	H

## 6.4 DTS bandwidth

### 6.4.1 Limits

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 6.4.2 Test setup



### 6.4.3 Test procedures

Test method: ANSI C63.10-2013 Section 11.8.1

### 6.4.4 Test results

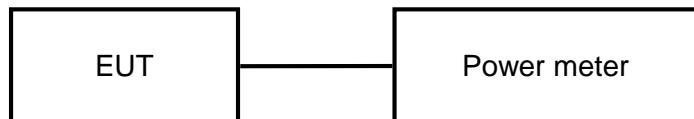
**Note:** See the appendix A

## 6.5 Maximum conducted output power

### 6.5.1 Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

### 6.5.2 Test setup



### 6.5.3 Test procedure

Test method for peak power: ANSI C63.10-2013 Section 11.9.1.3 PKPM1 Peak power meter method  
Test method for average power: ANSI C63.10-2013 Section 11.9.2.3.1 Method AVGPM

### 6.5.4 Test results

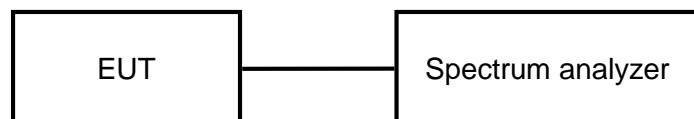
**Note:** see the appendix B

## 6.6 Power spectral density

### 6.6.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 6.6.2 Test setup



### 6.6.3 Test Procedure

Test method: ANSI C63.10-2013 Section 11.10.2

### 6.6.4 Test Results

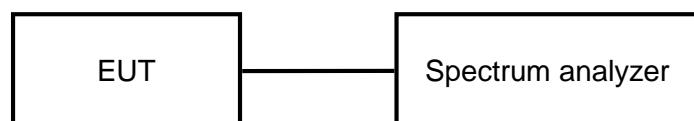
**Note:** see the appendix C

## 6.7 Band edge (Conducted)

### 6.7.1 Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 6.7.2 Test setup



### 6.7.3 Test procedure

Test method: ANSI C63.10-2013 Section 11.13

### 6.7.4 Test results

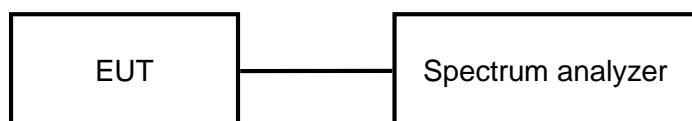
**Note: see the appendix D**

## 6.8 Conducted spurious emissions

### 6.8.1 Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 6.8.2 Test setup



### 6.8.3 Test procedure

Test method: ANSI C63.10-2013 Section 11.13

### 6.8.4 Test results

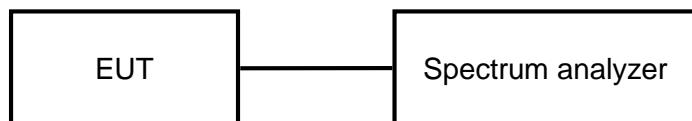
**Note: see the appendix E**

## 6.9 Duty Cycle

### 6.9.1 Limits

None, for reporting purposes only.

### 6.9.2 Test setup



### 6.9.3 Test procedure

Test method: KDB 558074 section 6, zero-span spectrum analyzer method.

### 6.9.4 Test Results

**Note:** see the appendix F