

**4.6.5 Test Data:**

**Table Maximum Peak Output Power**

Chennel	Frequency (MHz)	Peak Power Output (mW)	Peak Power Output (dBm)
1	2412	20.78	13.176
6	2437	49.10	16.911
11	2462	11.90	10.754

**4.6.6 RF Exposure Calculations:**

From FCC 1.1310, the maximum permissible RF exposure for an uncontrolled environment is 1 mW/cm<sup>2</sup>.

The Minimum Allowable Distance ,R, of EUT is calculated as follows:

Friis Transmission Formula:  $Pd = (Pout * G) / (4 * \delta * R^2)$   
 $R = [(Pout * G) / (4 * \delta * Pd)]^{1/2}$

Where Pd = power density in mW/cm<sup>2</sup> = 1mW/ cm<sup>2</sup>  
 Maxmium Peak Gain at 2.4GHz: (refer to antenna spec. )  
 G = antenna numeric gain = Log<sup>1</sup>(dB gain/10)  
 Pout = output power to antenna in mW (Refer to table 4.3.1)  
 δ = 3.1416

Since the host equipment is a notebook computer, the normal use distance is more than 20cm, the suitable standard for RF exposure is §1.1307(b)(1) MPE test. According to the result of 4.3.1, the calculated minimum allowance distance of EUT is listed below:

**Table 5.2.1 MPE Minimum Allowance Distance of EUT**

Channel	Frequency (MHz)	Maximum output power (mW)	Minimum Allowance Distance (cm)
1	2412	20.78	1.336
7	2442	49.10	2.053
11	2462	11.90	1.011

Note: Antenna gain=0.33dBi

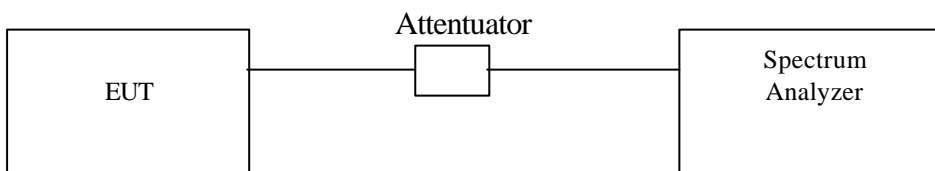
**The minimum allowable distance is very close to the enclosure of the antenna and also very far away from the human being under normal use condition. So, the RF exposure warning or SAR Measurement is not needed.**

### 4.7 DSSS Peak Power Spectral Density [Section 15.247(d) ]

#### 4.7.1 Test Procedure

1. The Transmitter output of EUT was connected to the spectrum analyzer.  
 Equipment mode: Spectrum analyzer  
 Detector function: Peak mode  
 SPAN: 1.5MHz  
 RBW: 3KHz  
 VBW: 30KHz  
 Center frequency: fundamental frequency tested.  
 Sweep time= 500 sec.  
 Cable loss=1.13dB
2. Using Peak Search to read the peak power after Maximum Hold function is completed.

#### 4.7.2 Test Setup

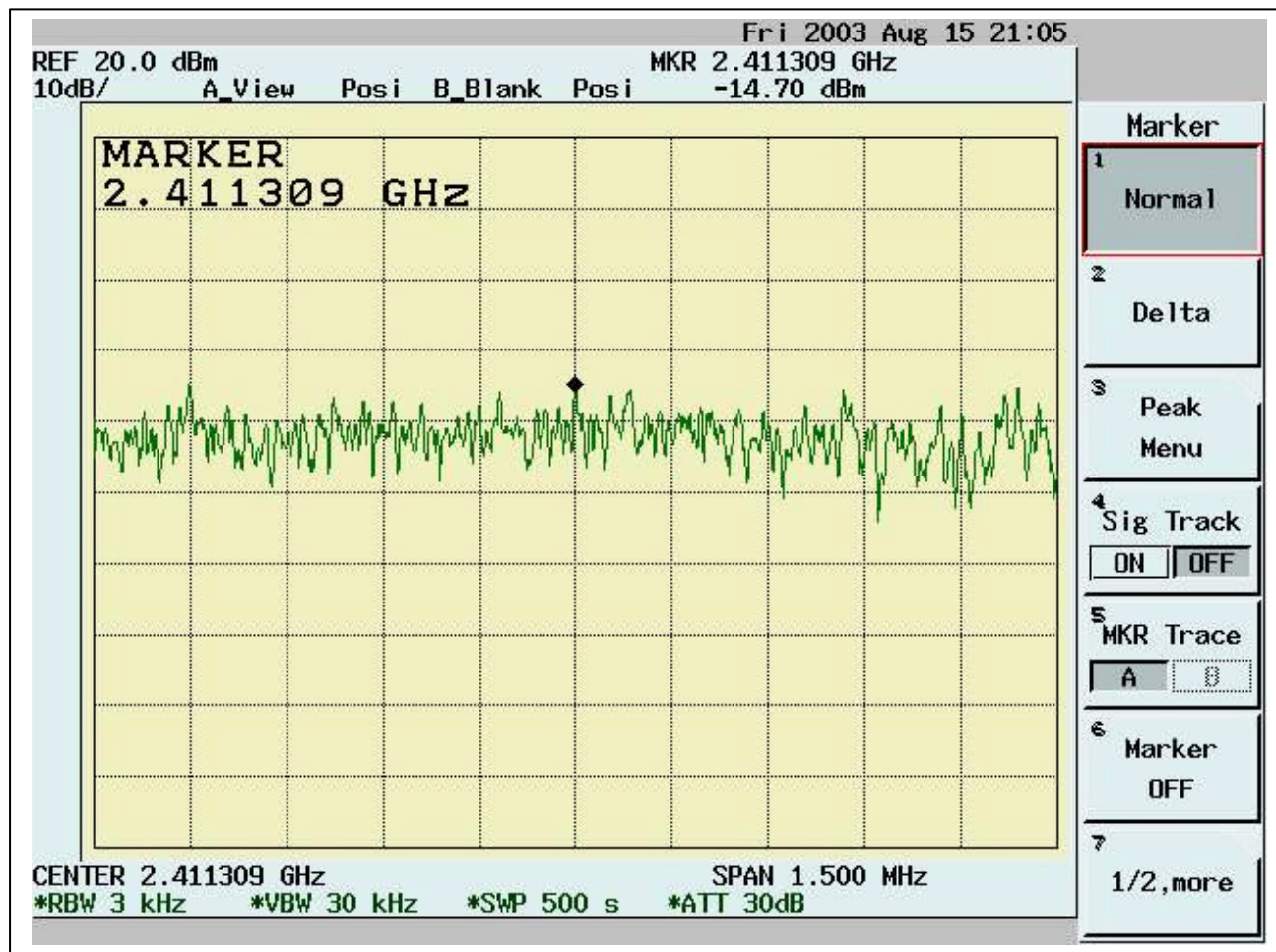


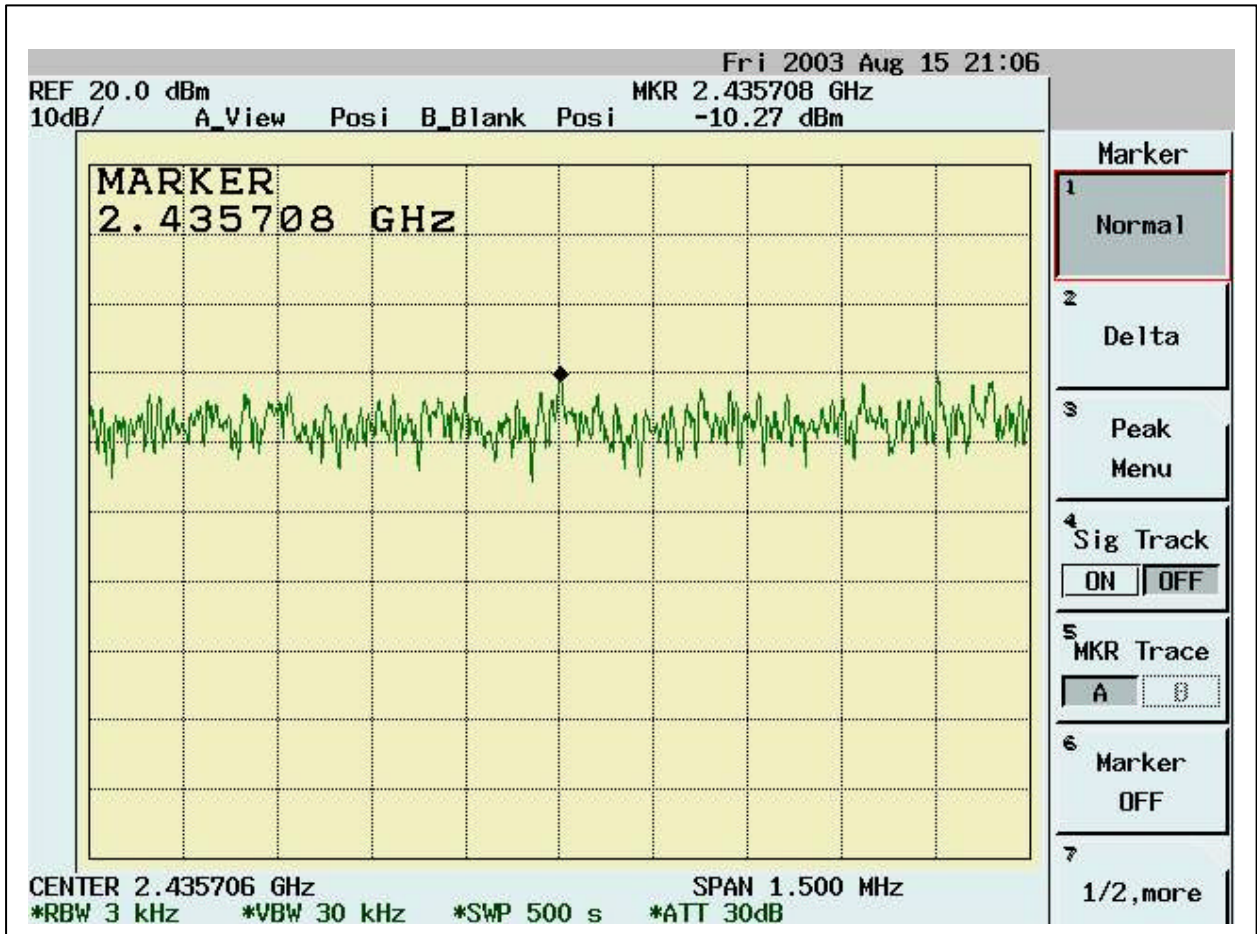
#### 4.7.3 Test Data:

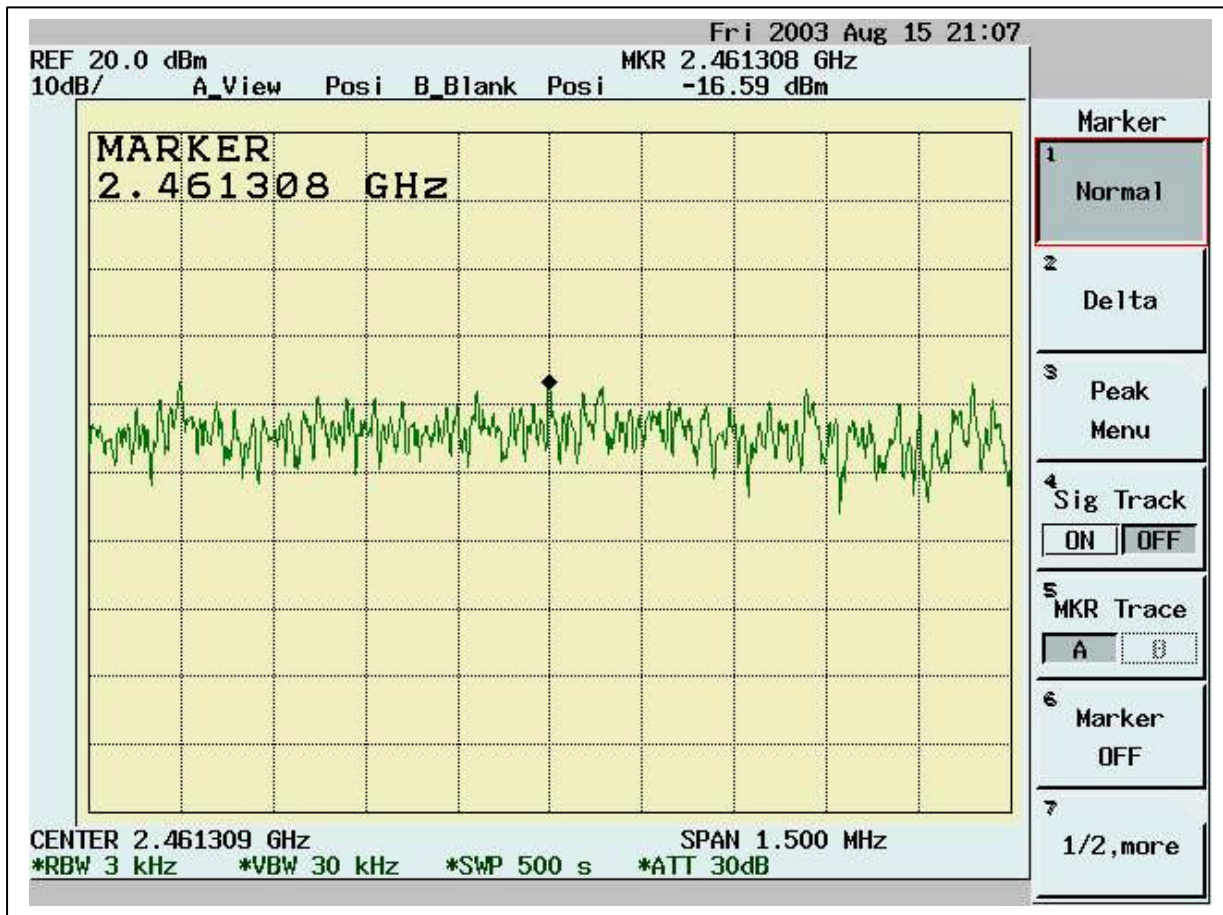
**Table Maximum Peak Output Power Density**

Chennel	Peak Power Output (dBm/3KHz)	Limit (dBm/3KHz)	Pass/Fail
1	-13.57	8	Pass
6	-9.14	8	Pass
11	-15.46	8	Pass

Note: Two RF output( MAIN & AUX) have been test,the worse data shown above.  
 Cable Lose=1.13dB







## 5. TEST RESULTS (802.11g)

### 5.1 Powerline Conducted Emissions [Section 15.207]

#### 5.1.1 EUT Configuration

The conducted emission test setups are in accordance with Figs 9, 10(a) and 10(b) of ANSI C63.4-2001, CFR 47 Part 15 Subpart B; or EN55022:1994/ A1:1995/A2:1997; CISPR 22:1993/A1:1995/A2:1996.

The EUT was set up on the non-conductive table that is 1.0 by 1.5 meter, 80cm above ground. The wall of the shielded room was located 40cm to the rear of the EUT.

Power to the EUT was provided through the LISN. The impedance vs. frequency characteristic of the LISN is complied with the limit shown on the figure 1 of ANSI C63.4-2001.

Both lines (neutral and hot) were connected to the LISN in series at testing. A coaxial-type connector which provides one 50 ohms terminating impedance was provided for connecting the test instrument. The excess length of the power cord was folded back and forth at the center of the lead so as to form a bundle not exceeding 40cm in length.

Any changes made to the configuration, or modifications made to the EUT, during testing are noted in the following test record.

If the EUT is a Personal Computer or a peripheral of personal computer, and the personal computer has an auxiliary AC outlet which can be used for providing power to an external monitor, then all measurements will be made with the monitor power from first the computer-mounted AC outlet and then a floor-mounted AC outlet.

#### 5.1.2 Test Procedure

The system was set up as described above, with the EMI diagnostic software running. The main power line conducted EMI tests were run on the hot and neutral conductors of the power cord and the results were recorded. The effect of varying the position of the interface cables has been investigated to find the configuration that produces maximum emission.

At the frequencies where the peak values of the emissions were higher than 6dB below the applicable limits, the emissions were also measured with the quasi-peak detectors. At the frequencies where the quasi-peak values of the emissions were higher than 6dB below the applicable average limits, the emissions were also measured with the average detectors.

The highest emissions were analyzed in details by operating the spectrum analyzer in fixed tuned mode to determine the nature of the emissions and to provide information which could be useful in reducing their amplitude.

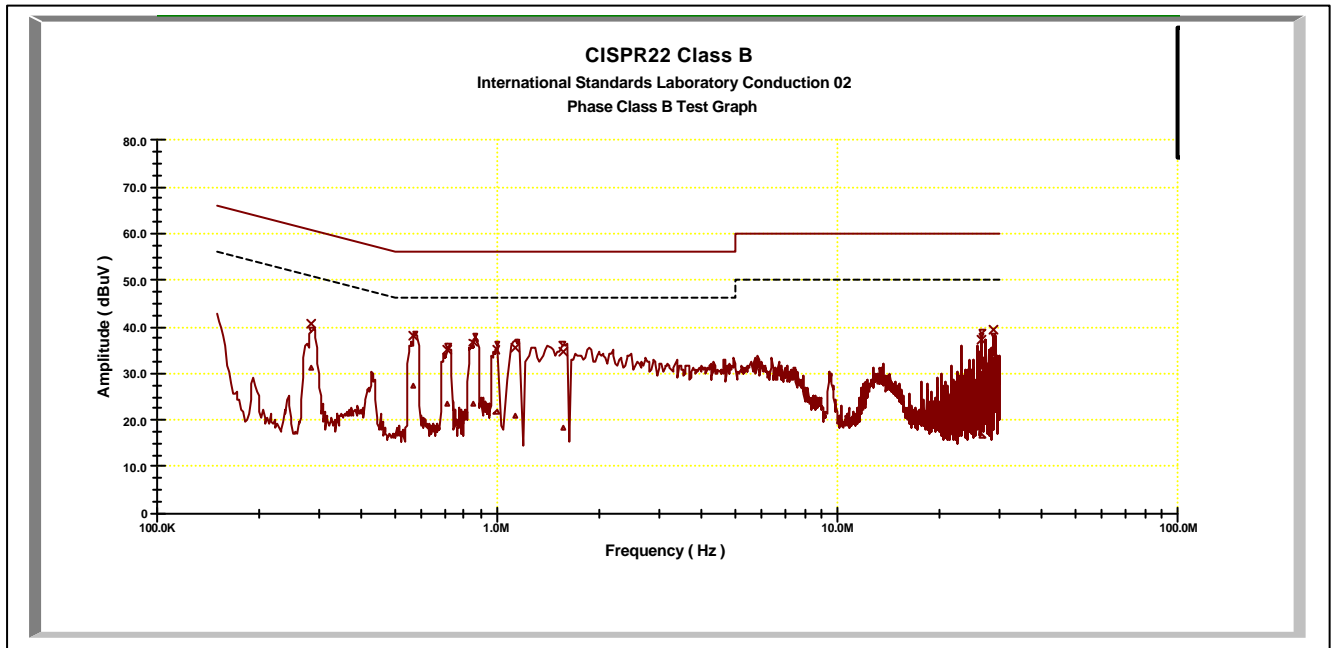
#### 5.1.3 EMI Receiver/Spectrum Analyzer Configuration (for the frequencies tested)

Frequency Range:	150 KHz--30MHz
Detector Function:	Quasi-Peak/Average
Bandwidth (RBW):	9KHz

5.1.4 Test Data:

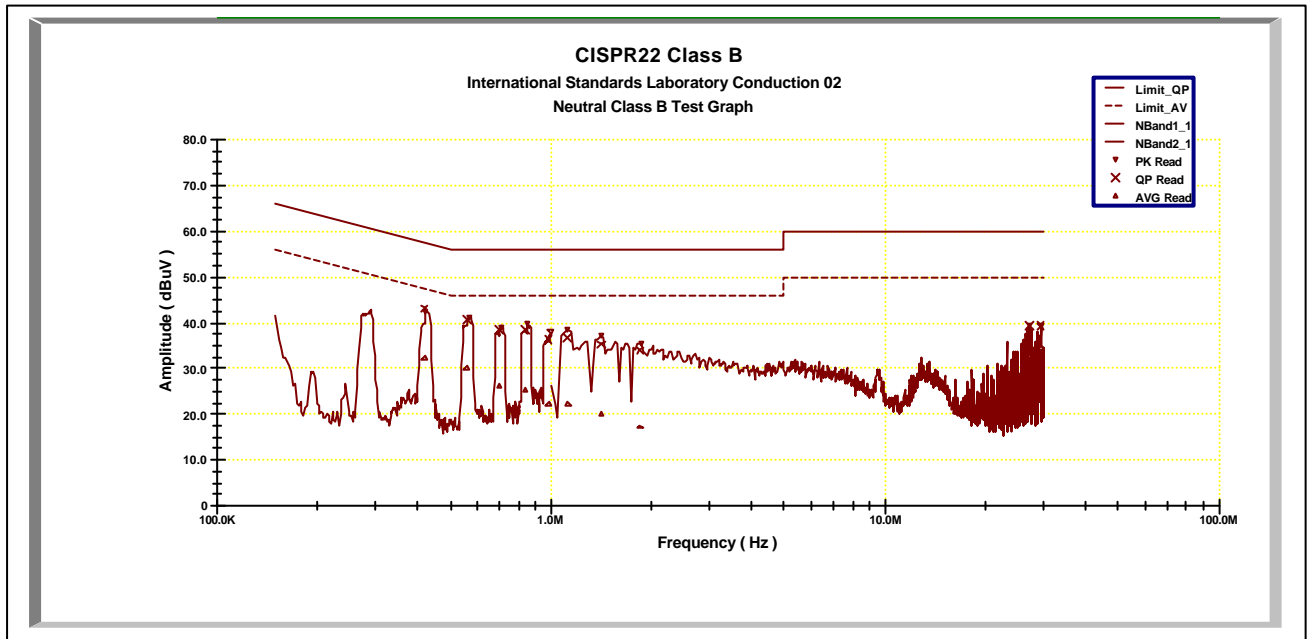
Power Line Conducted Emissions (Hot) Channel 1, 6, 11

Frequency (MHz)	Corrective Factor		Quasi-Peak			Average		
	LISN Loss (dB)	Cable Loss (dB)	Corrected Amplitude (dBuV)	Limit (dBuV)	Margin (dB)	Corrected Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
0.28345	0.10	0.02	40.81	62.19	-21.38	31.20	52.19	-20.99
0.56811	0.13	0.04	37.92	56.00	-18.08	27.38	46.00	-18.62
0.71333	0.15	0.05	34.97	56.00	-21.03	23.32	46.00	-22.68
0.85025	0.18	0.06	36.57	56.00	-19.43	23.35	46.00	-22.65
0.99483	0.20	0.07	35.21	56.00	-20.79	21.64	46.00	-24.36
1.13105	0.46	0.07	35.67	56.00	-20.33	20.66	46.00	-25.34
1.56236	0.33	0.09	34.64	56.00	-21.36	18.22	46.00	-27.78
26.5486	0.90	0.33	37.35	60.00	-22.65	30.92	50.00	-19.08
26.6656	0.90	0.33	22.78	60.00	-37.22	16.53	50.00	-33.47
28.6853	0.90	0.34	39.18	60.00	-20.82	33.63	50.00	-16.37



**Power Line Conducted Emissions (Neutral) Channel 1, 6, 11**

Frequency (MHz)	Corrective Factor		Quasi-Peak			Average		
	LISN Loss (dB)	Cable Loss (dB)	Corrected Amplitude (dBuV)	Limit (dBuV)	Margin (dB)	Corrected Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
0.41773	0.10	0.03	43.07	58.35	-15.28	32.35	48.35	-16.00
0.5588	0.13	0.03	40.46	56.00	-15.54	29.89	46.00	-16.11
0.70123	0.15	0.05	38.45	56.00	-17.55	26.31	46.00	-19.69
0.84138	0.17	0.06	38.46	56.00	-17.54	25.39	46.00	-20.61
0.98203	0.20	0.07	36.18	56.00	-19.82	22.37	46.00	-23.63
1.12504	0.29	0.07	36.71	56.00	-19.29	22.42	46.00	-23.58
1.41203	0.26	0.08	35.20	56.00	-20.80	19.84	46.00	-26.16
1.85208	0.21	0.10	33.88	56.00	-22.12	17.19	46.00	-28.81
27.1592	0.36	0.33	39.28	60.00	-20.72	32.85	50.00	-17.15
29.2352	0.32	0.35	39.48	60.00	-20.52	34.36	50.00	-15.64



\* NOTE: During the test, the EMI receiver was set to Max. Hold then switch the EUT Channel between 1 , 6, 11 to get the maximum reading of all these channels.  
 Two type of antennas have been test, and the worse data show above.  
 Margin = Amplitude + Insertion Loss- Limit  
 A margin of -8dB means that the emission is 8dB below the limit



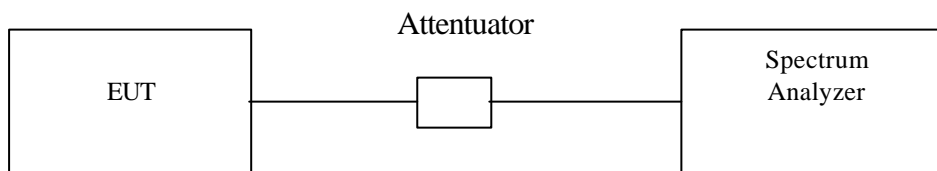
## 5.2 Bandwidth for DSSS [Section 15.247 (a)(2)]

### 5.2.1 Test Procedure

The Transmitter output of EUT was connected to the spectrum analyzer through an attenuator. The 6 dB bandwidth of the fundamental frequency was measured. The setting of spectrum analyzer is as follows

Equipment mode: Spectrum analyzer  
Detector function: Peak mode  
RBW: 100KHz  
VBW: 100KHz

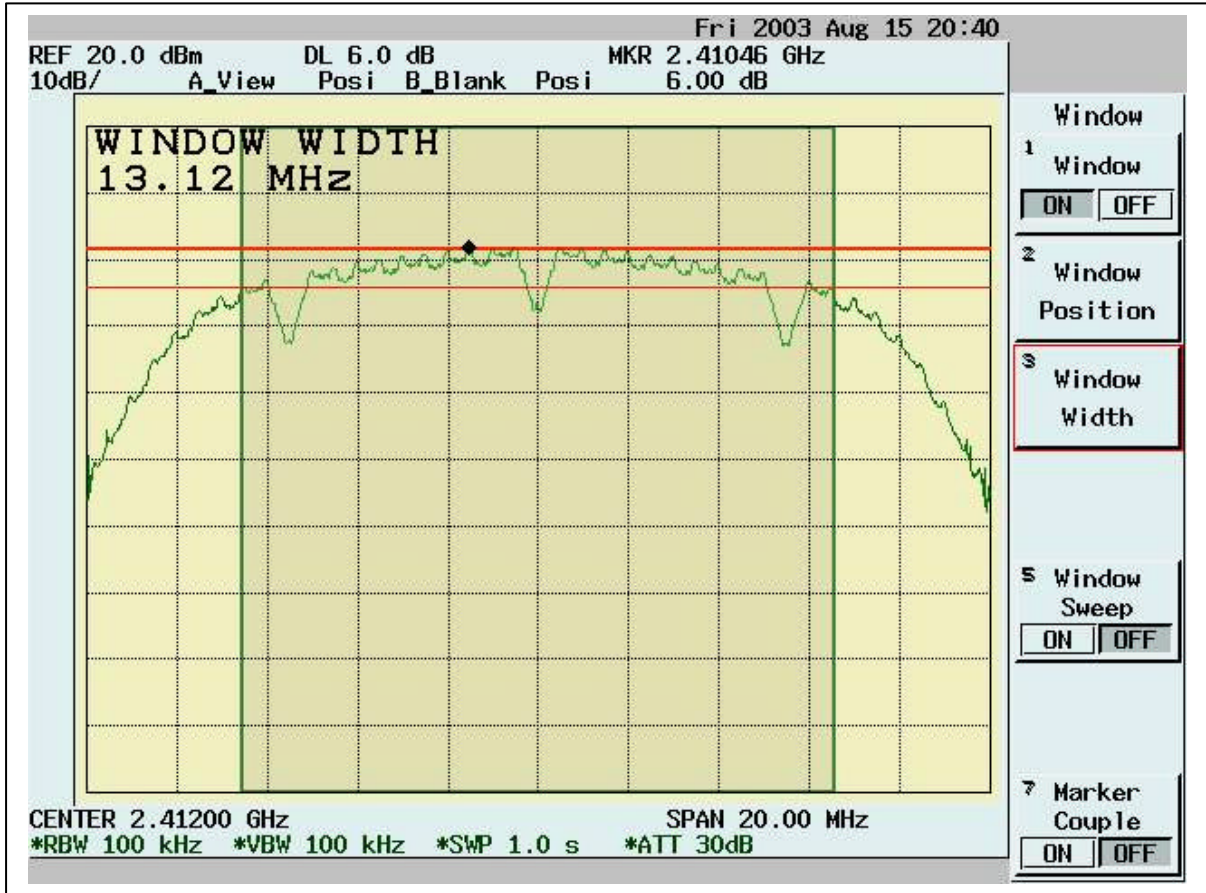
### 5.2.2 Test Setup

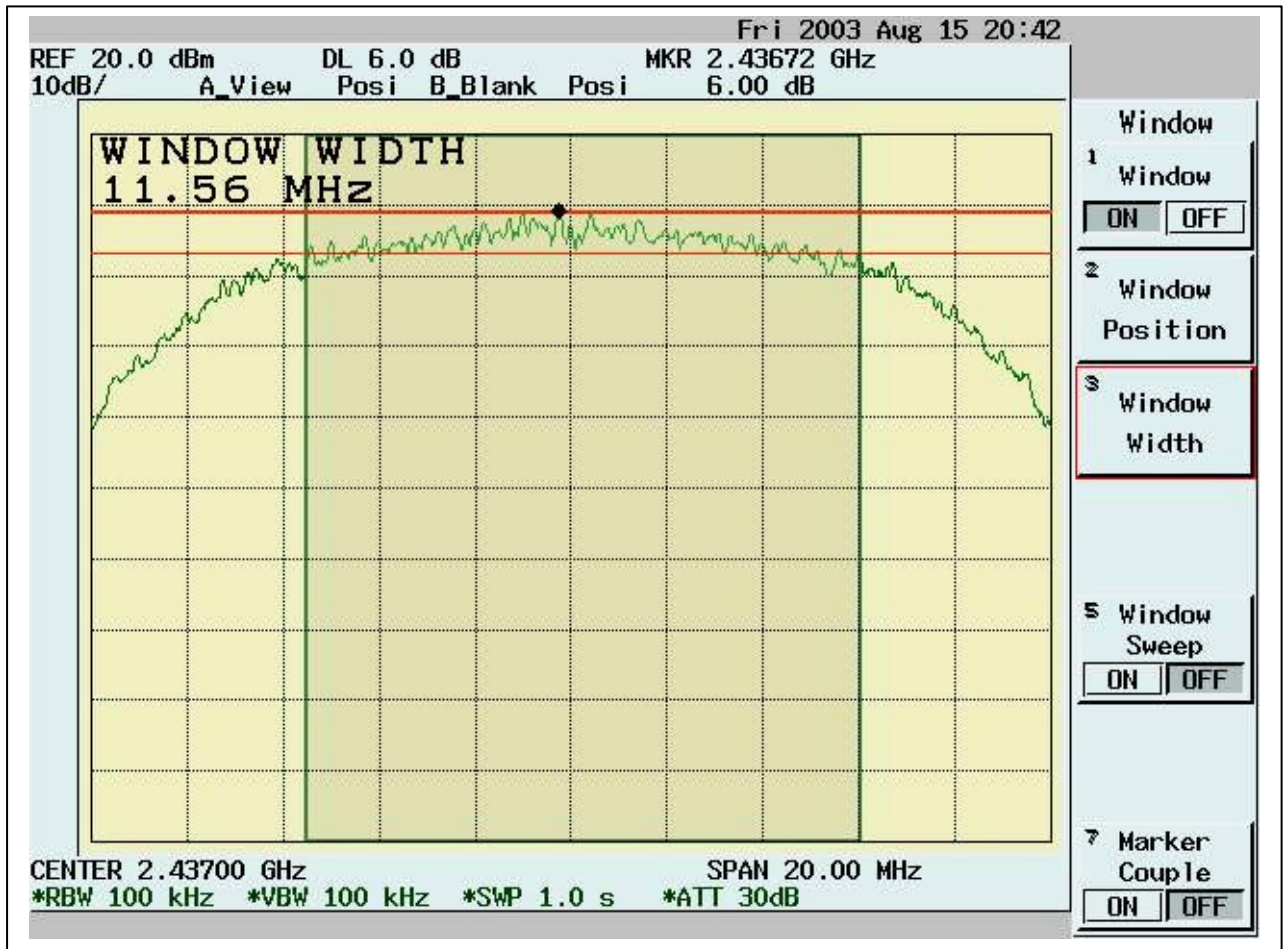


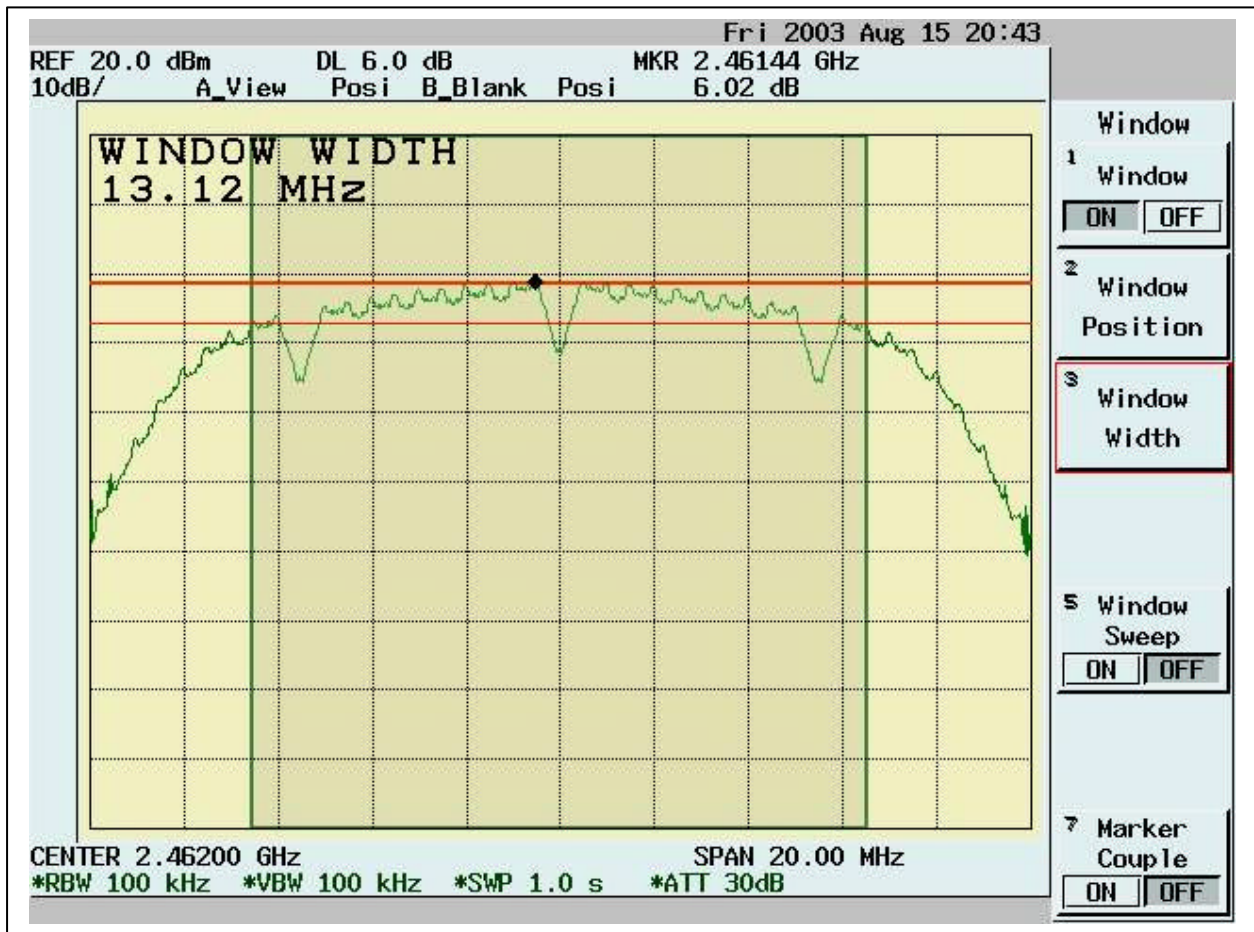
### 5.2.3 Test Data:

**Table 6dB Bandwidth**

Chennel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Pass/Fail
1	2412	13.12	0.5	Pass
6	2437	11.56	0.5	Pass
11	2462	13.12	0.5	Pass





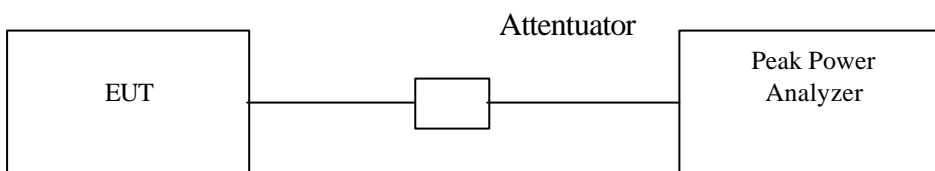


### 5.3 DSSS Maximum Peak Output Power [Section 15.247 (b)(1)]

#### 5.3.1 Test Procedure

1. The Transmitter output of EUT was connected to the peak power analyzer through an attenuator.

#### 5.3.2 Test Setup



#### 5.3.3 Test Data

**Maximum Peak Output Power**

Channel	Frequency (MHz)	Peak Power Output (mW)	Peak Power Output (dBm)	Limit (dBm)	Pass/Fail
1	2412	34.261	15.348	30	Pass
6	2437	156.96	21.958	30	Pass
11	2462	31.996	15.051	30	Pass

Cable lose=1.13dB

### 5.4 Radiated Emission Measurement [Section [15.247(c)(4)]

#### 5.4.1 EUT Configuration

The equipment under test was set up on the 10 meter chamber with measurement distance of 3 meters. The EUT was placed on a non-conductive table 80cm above ground.

Any changes made to the configuration, or modifications made to the EUT, during testing are noted in the following test record.

#### 5.4.2 Test Procedure

The system was set up as described above, with the EMI diagnostic software running. We found the maximum readings by varying the height of antenna and then rotating the turntable. Both polarization of antenna, horizontal and vertical, are measured.

30M to 1GHz: The highest emissions between 30 MHz to 1000 MHz were also analyzed in details by operating the spectrum analyzer and/or EMI receiver in quasi-peak mode to determine the precise amplitude of the emissions. While doing so, the interconnecting cables and major parts of the system were moved around, the antenna height was varied between one and four meters, its polarization was varied between vertical and horizontal, and the turntable was slowly rotated, to maximize the emission.

1GHz – 25GHz: The highest emissions were also analyzed in details by operating the spectrum analyzer and/or EMI receiver in peak mode to determine the precise amplitude of the emission. While doing so, the interconnecting cables and major parts of the system were moved around, the antenna height was varied between one and four meters, its polarization was varied between vertical and horizontal, and the turntable was slowly rotated, to maximize the emission. During test the EMI receiver and spectrum was setup according to *EMI Receiver/Spectrum Analyzer Configuration*.

For the test of 2<sup>nd</sup> to 10<sup>th</sup> harmonics frequencies, the equipment setup was also refer to *EMI Receiver/Spectrum Analyzer Configuration*. The frequencies were tested using Peak mode first, if the test data is higher than the emissions limit, an additional measurement using Average mode will be performed and the average reading will be compared to the limit and record in test report.

#### 5.4.3 EMI Receiver/Spectrum Analyzer Configuration (for the frequencies tested)

Frequency Range Tested:	30MHz~1000MHz
Detector Function:	Quasi-Peak Mode
Resolution Bandwidth (RBW):	120KHz
Video Bandwidth (VBW)	1MHz

Frequency Range Tested:	1GHz – 25 GHz
Detector Function:	Peak Mode
Resolution Bandwidth (RBW):	1MHz
Video Bandwidth (VBW)	1MHz

Frequency Range Tested:	1GHz – 25 GHz
Detector Function:	Average Mode
Resolution Bandwidth (RBW):	1MHz
Video Bandwidth (VBW)	10 Hz

### 5.4.4 Test Data (30MHz – 1GHz) :

#### 30M – 1GHz Open Field Radiated Emissions (Horizontal) Channel 1, 6, 11

Meter Reading		Correction Factor			Corrected Emissions			Antenna	Turntable
Freq. (MHz)	Ampl. (dBuV)	Ant. (dB/m)	Cable (dB)	Pre-Ampl. (dB)	Ampl. (dBuV/m)	Limit (dBuV/m)	Margin* (dB)	Height (cm)	Position (°)
20.03	12.84	13.50	4.67	0.00	31.02	46.00	-14.98	100.00	128.00
439.34	10.39	16.21	5.43	0.00	32.03	46.00	-13.97	100.00	338.00
599.39	4.66	18.50	6.32	0.00	29.48	46.00	-16.52	100.00	274.00
626.55	3.43	19.00	6.44	0.00	28.87	46.00	-17.13	100.00	322.00
692.51	4.60	18.85	6.75	0.00	30.20	46.00	-15.80	100.00	144.00
725.49	1.09	19.54	6.88	0.00	27.51	46.00	-18.49	150.00	144.00
759.44	1.75	19.89	7.05	0.00	28.69	46.00	-17.31	100.00	258.00
791.45	4.08	19.90	7.23	0.00	31.21	46.00	-14.79	100.00	128.00
799.21	4.79	19.90	7.27	0.00	31.96	46.00	-14.04	150.00	112.00
824.43	1.30	20.14	7.38	0.00	28.83	46.00	-17.17	100.00	274.00
857.41	1.30	20.30	7.47	0.00	29.07	46.00	-16.93	200.00	80.00
890.39	2.36	20.40	7.62	0.00	30.38	46.00	-15.62	200.00	0.00
922.4	1.70	20.62	7.76	0.00	30.09	46.00	-15.91	100.00	160.00

#### 30M – 1GHz Open Field Radiated Emissions (Vertical) Channel 1, 6, 11

Meter Reading		Correction Factor			Corrected Emissions			Antenna	Turntable
Freq. (MHz)	Ampl. (dBuV)	Ant. (dB/m)	Cable (dB)	Pre-Ampl. (dB)	Ampl. (dBuV/m)	Limit (dBuV/m)	Margin* (dB)	Height (cm)	Position (°)
49.4	16.34	7.94	1.92	0.00	26.20	40.00	-13.80	250.00	137.00
359.8	10.40	14.50	4.97	0.00	29.86	46.00	-16.14	200.00	137.00
395.69	12.16	15.38	5.19	0.00	32.73	46.00	-13.27	100.00	137.00
399.57	14.31	15.58	5.21	0.00	35.10	46.00	-10.90	100.00	171.00
439.34	13.97	16.21	5.43	0.00	35.61	46.00	-10.39	100.00	153.00
480.08	10.90	17.10	5.66	0.00	33.66	46.00	-12.34	100.00	273.00
494.63	6.38	17.30	5.76	0.00	29.44	46.00	-16.56	150.00	23.00
519.85	8.13	17.40	5.90	0.00	31.43	46.00	-14.57	100.00	89.00
527.61	6.95	16.83	5.94	0.00	29.72	46.00	-16.28	100.00	56.00
559.62	4.84	18.70	6.12	0.00	29.66	46.00	-16.34	100.00	171.00
593.57	6.89	18.50	6.29	0.00	31.68	46.00	-14.32	100.00	240.00
599.39	4.62	18.50	6.32	0.00	29.44	46.00	-16.56	100.00	240.00
626.55	3.32	19.00	6.44	0.00	28.76	46.00	-17.24	100.00	257.00
692.51	6.97	18.85	6.75	0.00	32.57	46.00	-13.43	150.00	56.00
799.21	3.51	19.90	7.27	0.00	30.67	46.00	-15.33	100.00	23.00
857.41	1.37	20.30	7.47	0.00	29.14	46.00	-16.86	200.00	137.00
879.72	0.89	20.40	7.57	0.00	28.86	46.00	-17.14	100.00	338.00
890.39	6.31	20.40	7.62	0.00	34.34	46.00	-11.66	150.00	187.00

\* NOTE:

During the Pre-test, the EUT has been tested for Channel 1, 6, 11 transmit from Main and Aux antenna respectively to get all the critical emission frequencies. In the final test all the critical emission frequencies has been tested and the test data are listed above.

Margin = Corrected Amplitude – Limit

Corrected Amplitude = Radiated Amplitude + Antenna Correction Factor + Cable Loss - Pre-Amplifier Gain

A margin of -8dB means that the emission is 8dB below the limit

**All frequencies from 30MHz to 1GHz have been tested**

### 5.4.5 Test Data ( 1GHz – 25 GHz, Transmitting from Main antenna ) .

#### 1GHz~ 25 GHz (Horizontal), Channel 1 : 2412 MHz

Meter Reading		Correction Factor			Corrected Emissions			Antenna	Turntable
Freq. (MHz)	Ampl. (dBuV)	Ant. (dB/m)	Cable (dB)	Pre-Ampl. (dB)	Ampl. (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Position (°)
1067.93	44.86	24.79	0.70	46.03	24.31	54.00	-29.69	100	88
1764.24	45.70	28.77	0.93	46.21	29.18	54.00	-24.82	104	57
1832.17	45.07	29.32	0.95	46.21	29.14	54.00	-24.86	101	165
3326.67	46.10	31.19	1.46	46.63	32.12	54.00	-21.88	100	02
6706.29	30.09	38.30	2.27	46.46	24.19	54.00	-29.81	101	132
6995	33.41	39.97	2.32	46.31	29.39	54.00	-24.61	100	41
7164.83	45.81	39.80	2.35	46.24	41.73	54.00	-12.27	106	09
7810.19	36.80	40.52	2.46	44.64	35.15	54.00	-18.85	101	231
8812.19	29.23	40.63	2.64	42.71	29.80	54.00	-24.20	109	94
9814.18	36.96	39.20	2.80	41.63	37.33	54.00	-16.67	100	153

#### 1GHz~ 25 GHz (Vertical), Channel 1 : 2412 MHz

Meter Reading		Correction Factor			Corrected Emissions			Antenna	Turntable
Freq. (MHz)	Ampl. (dBuV)	Ant. (dB/m)	Cable (dB)	Pre-Ampl. (dB)	Ampl. (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Position (°)
1628.37	45.80	27.65	0.89	46.21	28.13	54.00	-25.87	100	56
3377.62	45.41	31.25	1.47	46.63	31.51	54.00	-22.49	100	89
6944.06	33.49	39.68	2.31	46.34	29.14	54.00	-24.86	100	137
7147.85	45.81	39.82	2.35	46.24	41.74	54.00	-12.26	100	62
7351.65	48.09	39.58	2.38	46.16	43.90	54.00	-10.10	101	06
7572.43	40.84	39.66	2.42	45.75	37.18	54.00	-16.82	100	85
7810.19	36.41	40.52	2.46	44.64	34.76	54.00	-19.24	100	65
8098.9	30.65	41.16	2.52	43.50	30.83	54.00	-23.17	100	43
8200.8	30.52	41.12	2.53	43.24	30.94	54.00	-23.06	100	19
8523.48	28.98	40.97	2.59	42.49	30.06	54.00	-23.94	100	89
8863.14	29.20	40.56	2.65	42.75	29.67	54.00	-24.33	104	47
9814.18	31.51	39.20	2.80	41.63	31.88	54.00	-22.12	108	24

Note:

The Spectrum noise level + Correction Factor < Limit - 6 dB

Margin = Corrected Amplitude – Limit

Corrected Amplitude = Radiated Amplitude + Antenna Correction Factor + Cable Loss - Pre-Amplifier Gain

A margin of -8dB means that the emission is 8dB below the limit

**All frequencies from 1GHz to 25 GHz have been tested.**



**1GHz~ 25 GHz (Horizontal), Channel 6 : 2437 MHz**

Meter Reading		Correction Factor			Corrected Emissions			Antenna	Turntable
Freq. (MHz)	Ampl. (dBuV)	Ant. (dB/m)	Cable (dB)	Pre-Ampl. (dB)	Ampl. (dBuV/m)	Limit (dBuV/m)	Margin* (dB)	Height (cm)	Position (°)
2307.69	45.34	30.58	1.11	46.21	30.82	54.00	-23.18	100	92
3326.67	45.79	31.19	1.46	46.63	31.81	54.00	-22.19	102	89
4906.09	34.53	35.11	1.94	46.96	24.62	54.00	-29.38	100	41
6995	32.64	39.97	2.32	46.31	28.62	54.00	-25.38	100	23
7130.87	45.77	39.84	2.34	46.25	41.70	54.00	-12.30	104	134
7861.14	35.12	40.70	2.47	44.40	33.89	54.00	-20.11	100	78
8829.17	30.05	40.60	2.65	42.72	30.58	54.00	-23.42	109	189

**1GHz~ 25 GHz (Vertical), Channel 6 : 2437 MHz**

Meter Reading		Correction Factor			Corrected Emissions			Antenna	Turntable
Freq. (MHz)	Ampl. (dBuV)	Ant. (dB/m)	Cable (dB)	Pre-Ampl. (dB)	Ampl. (dBuV/m)	Limit (dBuV/m)	Margin* (dB)	Height (cm)	Position (°)
2613.39	44.92	30.57	1.22	46.29	30.41	54.00	-23.59	100	65
3088.91	44.66	30.91	1.38	46.59	30.35	54.00	-23.65	102	67
3326.67	45.69	31.19	1.46	46.63	31.71	54.00	-22.29	100	73
6706.29	29.90	38.30	2.27	46.46	24.01	54.00	-29.99	100	183
6995	33.71	39.97	2.32	46.31	29.69	54.00	-24.31	107	28
7147.85	45.77	39.82	2.35	46.24	41.69	54.00	-12.31	100	44
7555.44	37.95	39.60	2.42	45.83	34.13	54.00	-19.87	100	25
8999	29.90	40.40	2.68	42.85	30.13	54.00	-23.87	102	109
9814.18	32.34	39.20	2.80	41.63	32.71	54.00	-21.29	100	153

**Note:**

“\*\*\*” Not in the restricted band, Limit level=Fundamental Emission-20dB

The Spectrum noise level + Correction Factor < Limit - 6 dB

Margin = Corrected Amplitude – Limit

Corrected Amplitude = Radiated Amplitude + Antenna Correction Factor + Cable Loss -  
Pre-Amplifier Gain

A margin of -8dB means that the emission is 8dB below the limit

**All frequencies from 1GHz to 25 GHz have been tested.**

**1GHz~ 25 GHz (Horizontal), Channel 11: 2462 MHz**

Meter Reading		Correction Factor			Corrected Emissions			Antenna	Turntable
Freq. (MHz)	Ampl. (dBuV)	Ant. (dB/m)	Cable (dB)	Pre-Ampl. (dB)	Ampl. (dBuV/m)	Limit (dBuV/m)	Margin* (dB)	Height (cm)	Position (°)
2171.83	45.23	30.63	1.07	46.20	30.73	54.00	-23.27	100	34
3292.71	46.12	31.15	1.44	46.62	32.09	54.00	-21.91	101	56
3377.62	46.30	31.25	1.47	46.63	32.39	54.00	-21.61	101	110
7130.87	45.34	39.84	2.34	46.25	41.28	54.00	-12.72	103	94
7589.41	40.34	39.72	2.43	45.67	36.82	54.00	-17.18	100	22
7912.09	35.33	40.88	2.48	44.16	34.53	54.00	-19.47	106	12
8149.85	31.10	41.14	2.53	43.37	31.40	54.00	-22.60	100	51
8251.75	31.36	41.10	2.54	43.11	31.90	54.00	-22.10	101	10
8523.48	29.68	40.97	2.59	42.49	30.76	54.00	-23.24	100	160
9814.18	37.20	39.20	2.80	41.63	37.57	54.00	-16.43	102	73

**1GHz~ 25 GHz (Vertical), Channel 11 : 2462 MHz**

Meter Reading		Correction Factor			Corrected Emissions			Antenna	Turntable
Freq. (MHz)	Ampl. (dBuV)	Ant. (dB/m)	Cable (dB)	Pre-Ampl. (dB)	Ampl. (dBuV/m)	Limit (dBuV/m)	Margin* (dB)	Height (cm)	Position (°)
3224.78	45.90	31.07	1.42	46.61	31.78	54.00	-22.22	100	32
6978.02	33.34	39.87	2.32	46.32	29.21	54.00	-24.79	100	19
7130.87	44.86	39.84	2.34	46.25	40.79	54.00	-13.21	102	24
7351.65	51.60	39.58	2.38	46.16	47.41	54.00	-6.59	100	129
7912.09	35.13	40.88	2.48	44.16	34.33	54.00	-19.67	109	253
7997	33.56	41.19	2.50	43.76	33.49	54.00	-20.51	101	23
8149.85	30.84	41.14	2.53	43.37	31.14	54.00	-22.86	100	69
8489.51	28.52	41.00	2.59	42.50	29.62	54.00	-24.38	102	172
8863.14	29.02	40.56	2.65	42.75	29.50	54.00	-24.50	100	200
9814.18	32.49	39.20	2.80	41.63	32.86	54.00	-21.14	102	92

Note:

The Spectrum noise level + Correction Factor < Limit - 6 dB

Margin = Corrected Amplitude – Limit

Corrected Amplitude = Radiated Amplitude + Antenna Correction Factor + Cable Loss - Pre-Amplifier Gain

A margin of -8dB means that the emission is 8dB below the limit

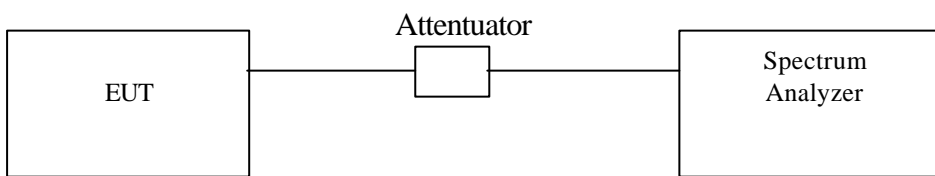
**All frequencies from 1GHz to 25 GHz have been tested.**

## 5.5 Band Edge Measurement

### 5.5.1 Test Procedure (Conducted)

1. The Transmitter output of EUT was connected to the spectrum analyzer.  
 Equipment mode: Spectrum analyzer  
 Detector function: Peak mode  
 SPAN: 100MHz  
 RBW: 100KHz  
 VBW: 100KHz  
 Center frequency: 2.4GHz, 2.4835GHz.
2. Using Peak Search to read the peak power of Carrier frequencies after Maximum Hold function is completed.
3. Find the next peak frequency outside the operation frequency band.

### 5.5.2 Test Setup (Conducted)



### 5.5.3 Test Data:

#### Band Edge measurement (Conducted)

Channel	Frequency (MHz)	Spectrum Reading (dBuV)	Carrier - Outsideband Limit: > 20dB (dB)	Pass/Fail
1	2411.4	109.11	---	---
Outside band	2396.9	72.10	37.01	Pass
11	2461.7	105.52	---	---
Outside band	2477.4	66.03	39..49	Pass

Band Edge Conducted measurement

