

Band Edge measurement for radiated emission in Restricted Band(Radiated)

Average Mode (Channel 11)



5.6 RF Exposure Measurement [Section 15.247(b)(4) & 1.1307(b)]

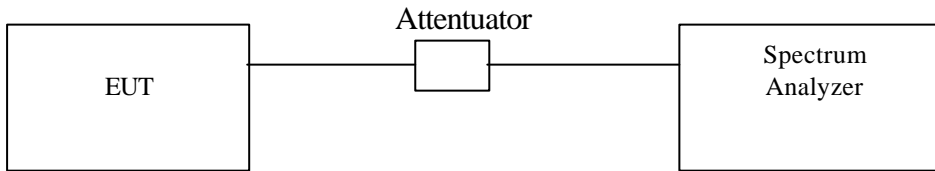
Refer to SAR Test Report attached

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

5.7.1 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=0.5dB
2. Using Peak Search to read the peak power after Maximun Hold function is completed.

5.7.2 Test Setup



5.7.3 Test Data:

Table Maxmum Peak Output Power Density

Chennel	Frequency (MHz)	Peak Power Output (dBm/3KHz)	Limit (dBm/3KHz)	Pass/Fail
1	2412.5	-7.96	8	Pass
6	2437.5	-8.68	8	Pass
11	2462.5	-9.13	8	Pass

Note: Two RF output(MAIN & AUX) have been test,the worse data shown above.
 Cable Lose=0.5dB





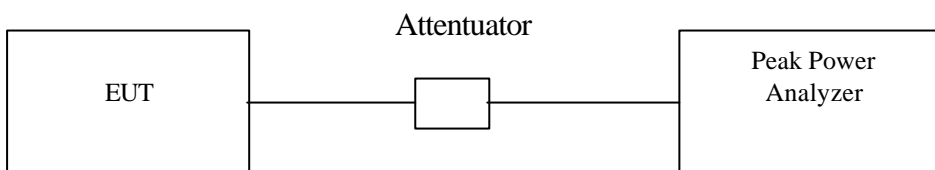
6. TEST RESULTS (802.11a)

6.1 Maximum Peak Output Power [Section 15.407 (a)(1)(2)(3)]

6.1.1 Test Procedure

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

6.1.2 Test Setup



6.1.3 Test Data: (Normal Mode)

Maximum Peak Output Power

Chennel	Frequency (MHz)	Peak Power Output (dBm)	26 dBc Bandwidth (MHz)	Limit (dBm)	Pass/Fail
1	5180	16.41	28.35	17	Pass
4	5240	16.35	28.07	17	Pass
5	5260	18.71	29.54	24	Pass
8	5320	18.22	28.35	24	Pass

6.1.4 Test Data: (Turbo Mode)

Maximum Peak Output Power

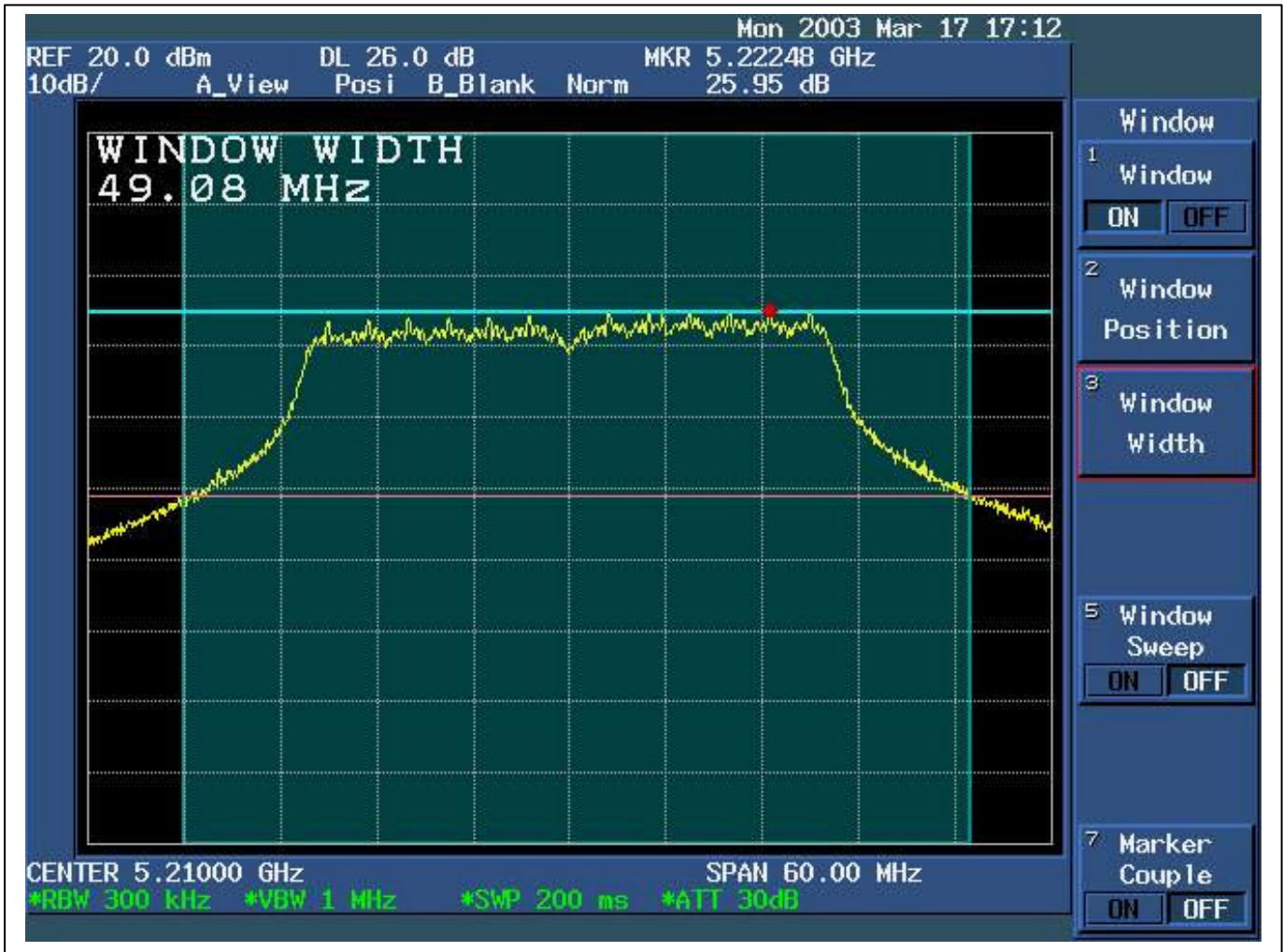
Chennel	Frequency (MHz)	Peak Power Output (dBm)	26 dBc Bandwidth (MHz)	Limit (dBm)	Pass/Fail
1	5210	16.25	49.08	17	Pass
2	5250	16.37	48.00	17	Pass
3	5290	17.48	48.48	24	Pass

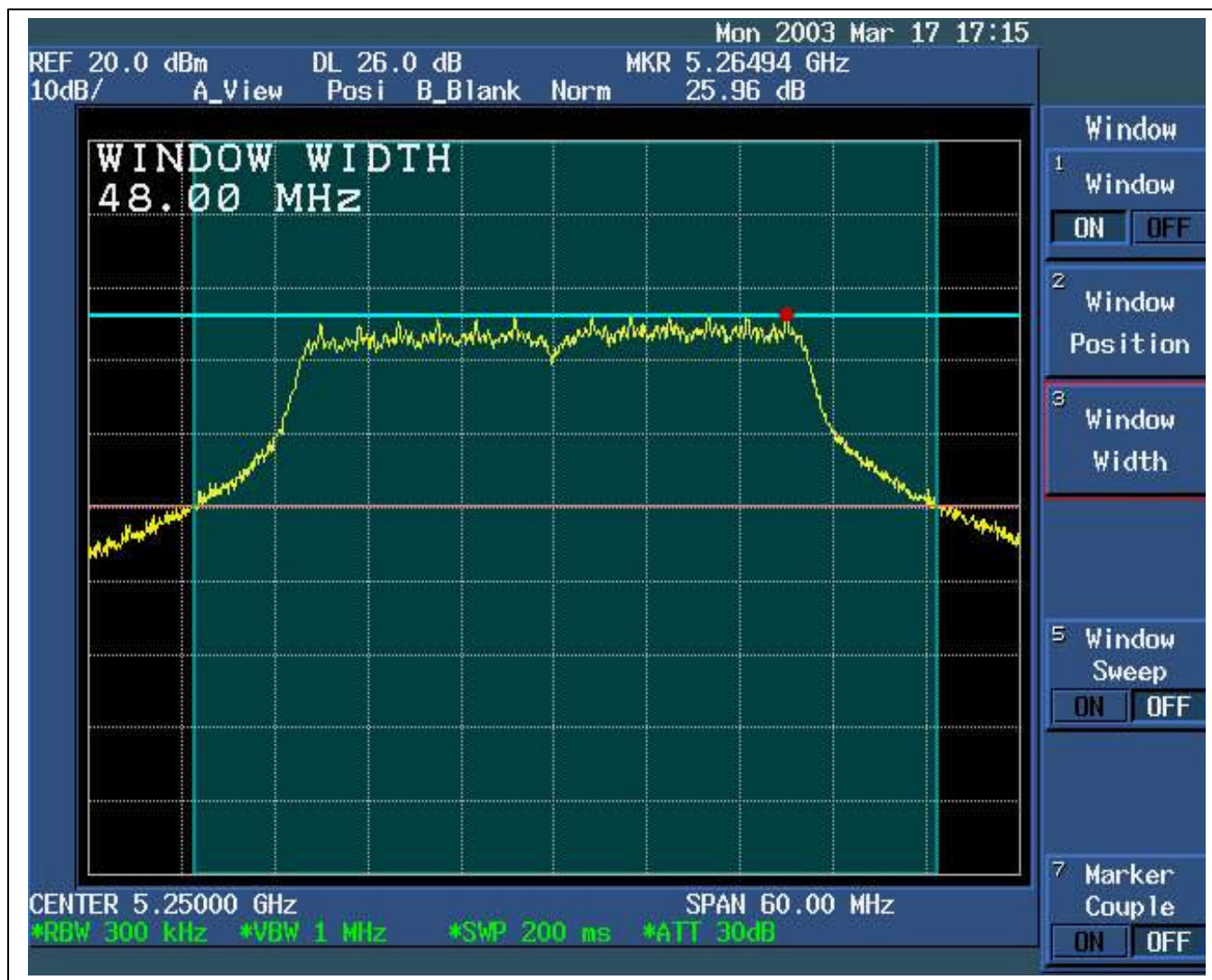












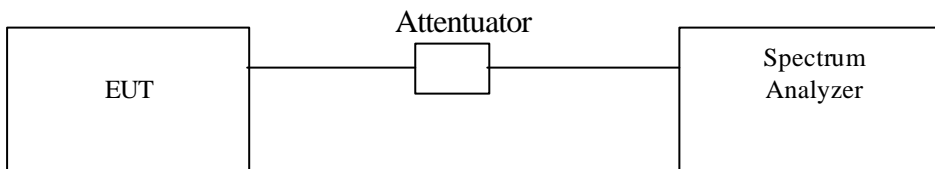


6.2 Peak Power Spectral Density [Section 15.407(a)(1)(2)(3)]

6.2.1 Test Procedure

1. The Transmitter output of EUT was connected to the spectrum analyzer.
 Equipment mode: Spectrum analyzer
 Detector function: Peak mode
 SPAN: 30MHz or 50MHz
 RBW: 1MHz
 VBW: 3MHz
 Center frequency: fundamental frequency tested.
 Sweep time= 30 or 50 sec.
 Cable loss=0.5dB
2. Using Peak Search to read the peak power after Maximun Hold function is completed.

6.2.2 Test Setup



6.2.3 Test Data: (Normal Mode)

Table 7.3.1 Maxmum Peak Output Power Density

Chennel	Frequency (MHz)	Peak Power Output (dBm/MHz)	Limit (dBm/MHz)	Pass/Fail
1	5180	0.63	4	Pass
4	5240	0.95	4	Pass
5	5260	3.98	11	Pass
8	5320	5.28	11	Pass

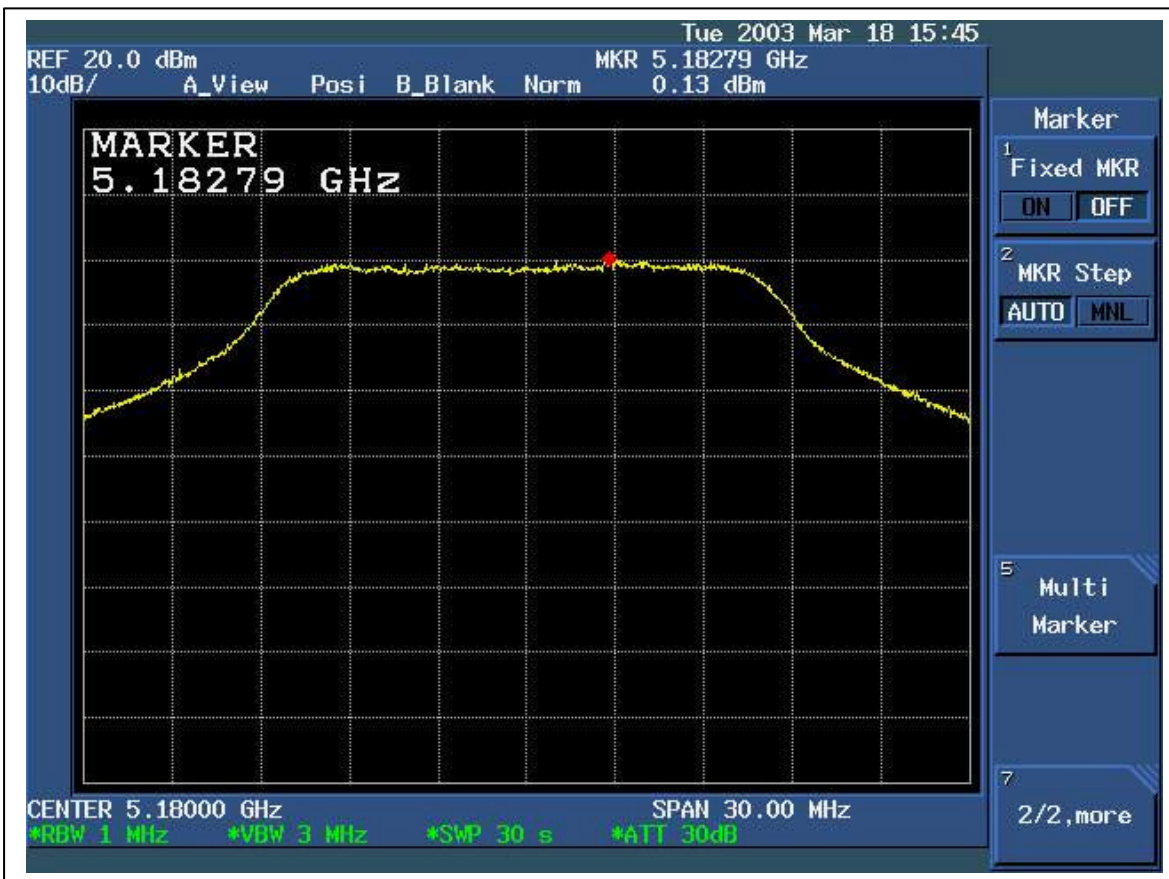
@ Cable Lose=0.5dB

6.2.4 Test Data: (Turbo Mode)

Table 7.3.1 Maxmum Peak Output Power Density

Chennel	Frequency (MHz)	Peak Power Output (dBm/MHz)	Limit (dBm/MHz)	Pass/Fail
1	5210	0.16	4	Pass
2	5250	0.87	4	Pass
3	5290	1.71	11	Pass

@ Cable Lose=0.5dB







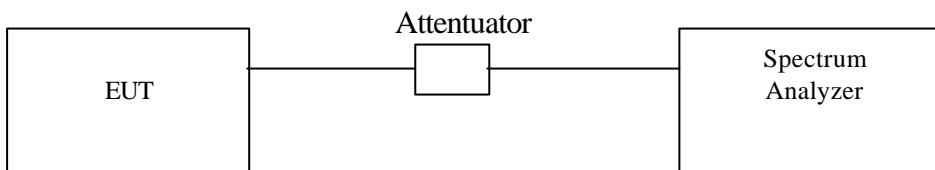


6.3 Peak Power Excursion Measurement [Section 15.407(a)(6)]

6.3.1 Test Procedure

1. The Transmitter output of EUT was connected to the spectrum analyzer.
2. Frequency SPAN of Spectrum: 30MHz or 50MHz.
3. Trace 1 : RBW: 1MHz, VBW: 1MHz. Using peak detector and Max -hold
4. Trace 2 : RBW: 1MHz, VBW:30KHz. Using peak detectro and Max-hold
5. Record the largest difference between Trace 1 and Trace 2.

6.3.2 Test Setup



6.3.3 Test Data: (Normal Mode)

Table 7.3.1 Maxmum Peak Output Power Density

Chennel	Frequency (MHz)	Peak Power Excursion (dB)	Limit (dB)	Pass/Fail
1	5180	8.41	13	Pass
4	5240	8.45	13	Pass
5	5260	8.99	13	Pass
8	5320	7.65	13	

6.3.4 Test Data: (Turbo Mode)

Table 7.3.1 Maxmum Peak Output Power Density

Chennel	Frequency (MHz)	Peak Power Excursion (dB)	Limit (dB)	Pass/Fail
1	5210	8.02	13	Pass
2	5250	8.00	13	Pass
3	5290	7.54	13	Pass





