

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

#### 5.9.1 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.
2. Using Peak Search to read the peak power after Maximum Hold function is completed.

#### 5.9.2 Test Setup



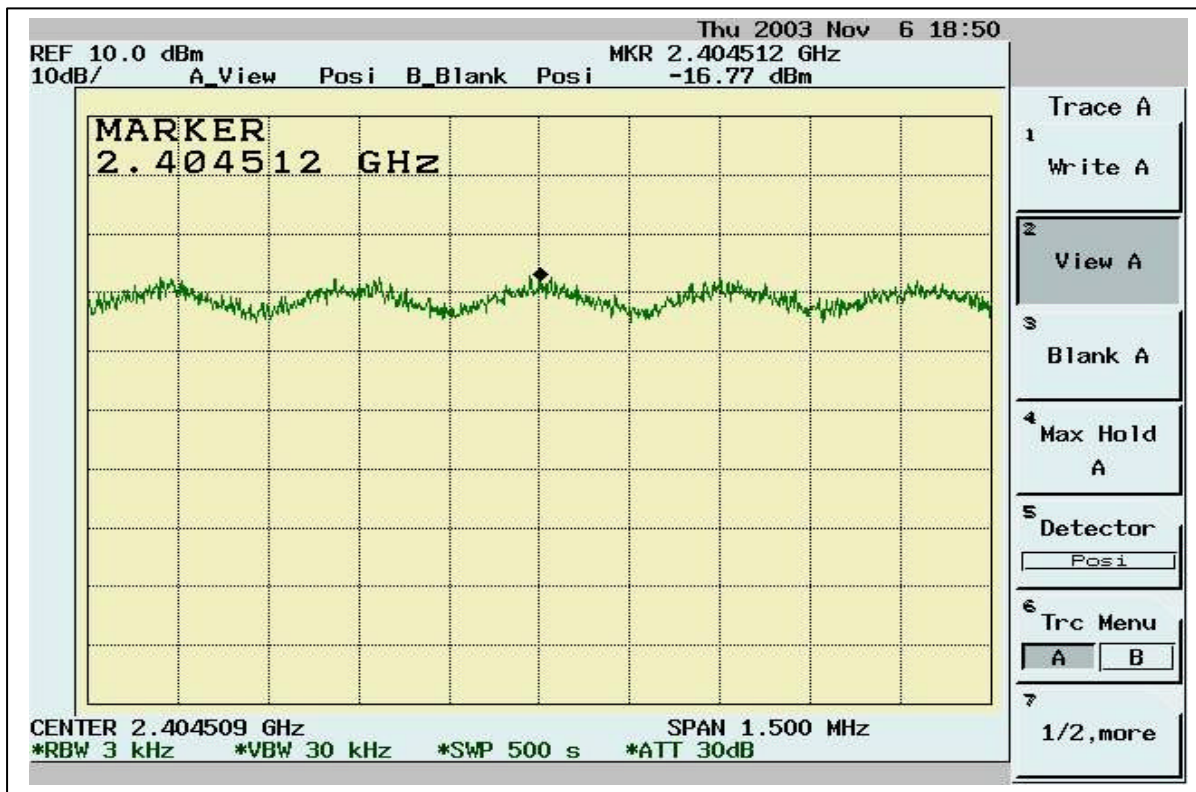
#### 5.9.3 Test Data:

**Maximum Peak Output Power Density**

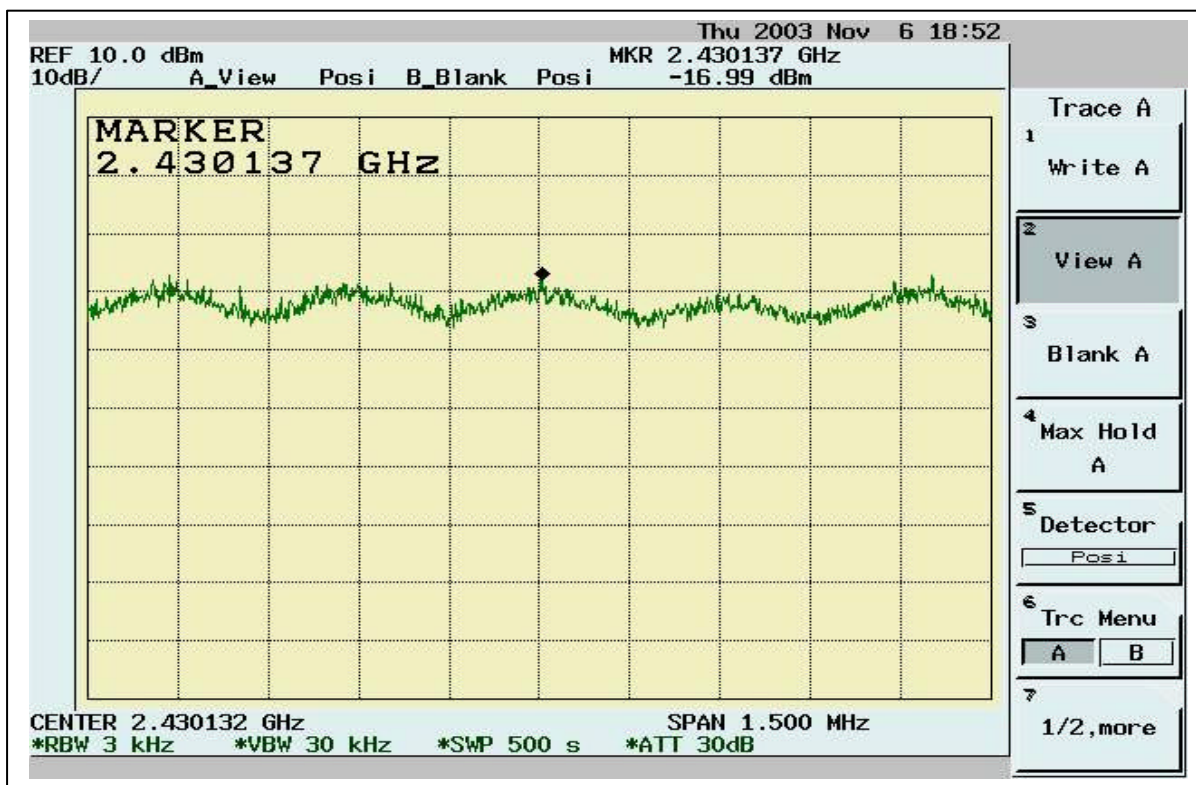
Chennel	Spectrum Reading (dBm/3KHz)	Cable Loss (dB)	Peak Power Output (dBm/3KHz)	Limit (dBm/3KHz)	Pass/Fail
1	-16.77	1.09	-15.68	8	Pass
6	-16.99	1.09	-15.90	8	Pass
11	-18.02	1.09	-16.93	8	Pass

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

Channel 1



Channel 6



Channel 11



## 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.

#### 6.1.2 Test Setup



Frequency Band	Limit
5.15 – 5.25 GHz	The lesser of 50mW (17dBm) or 4dBm+10logB
5.25 – 5.35GHz	The lesser of 250mW (24dBm) or 11dBm+10logB
5.725-5.825GHz	The lesser of 1W (30dBm) or 17dBm+10logB

Note: B is the 26dB emission bandwidth in MHz

#### 6.1.3 Test Data: (Normal Mode)

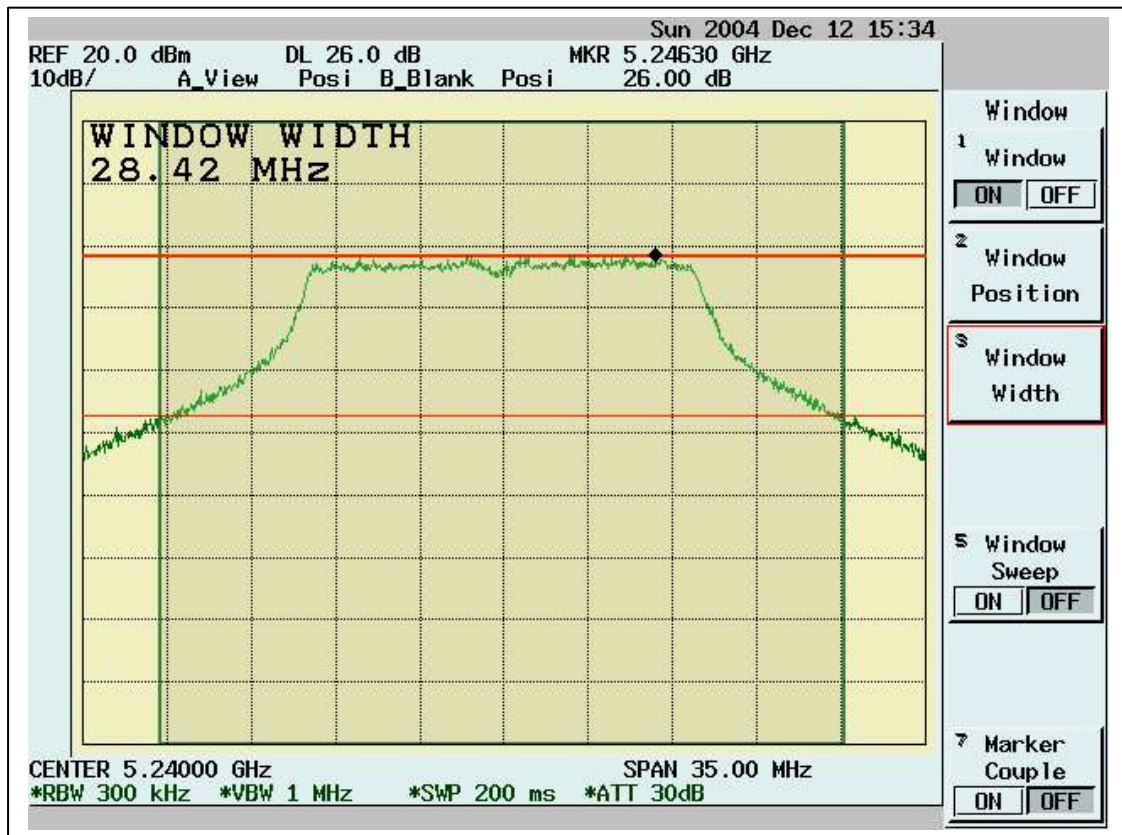
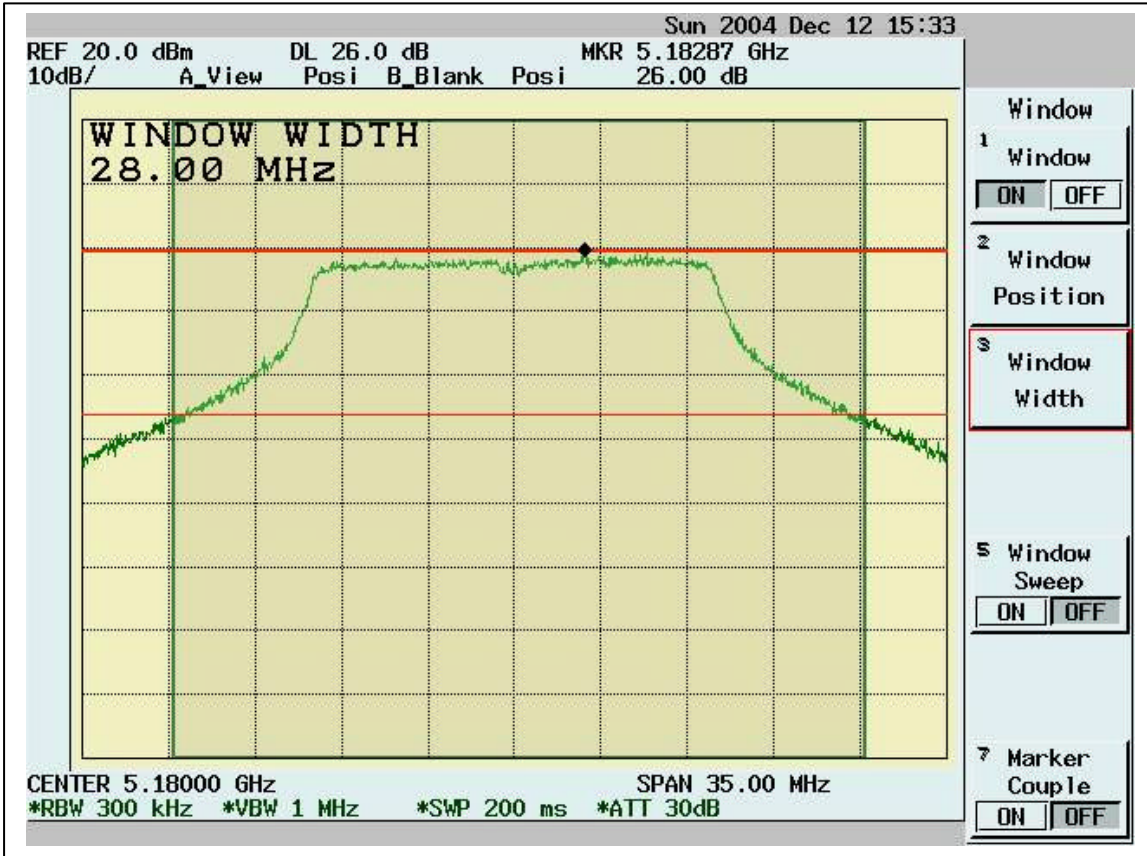
##### Maximum Peak Output Power

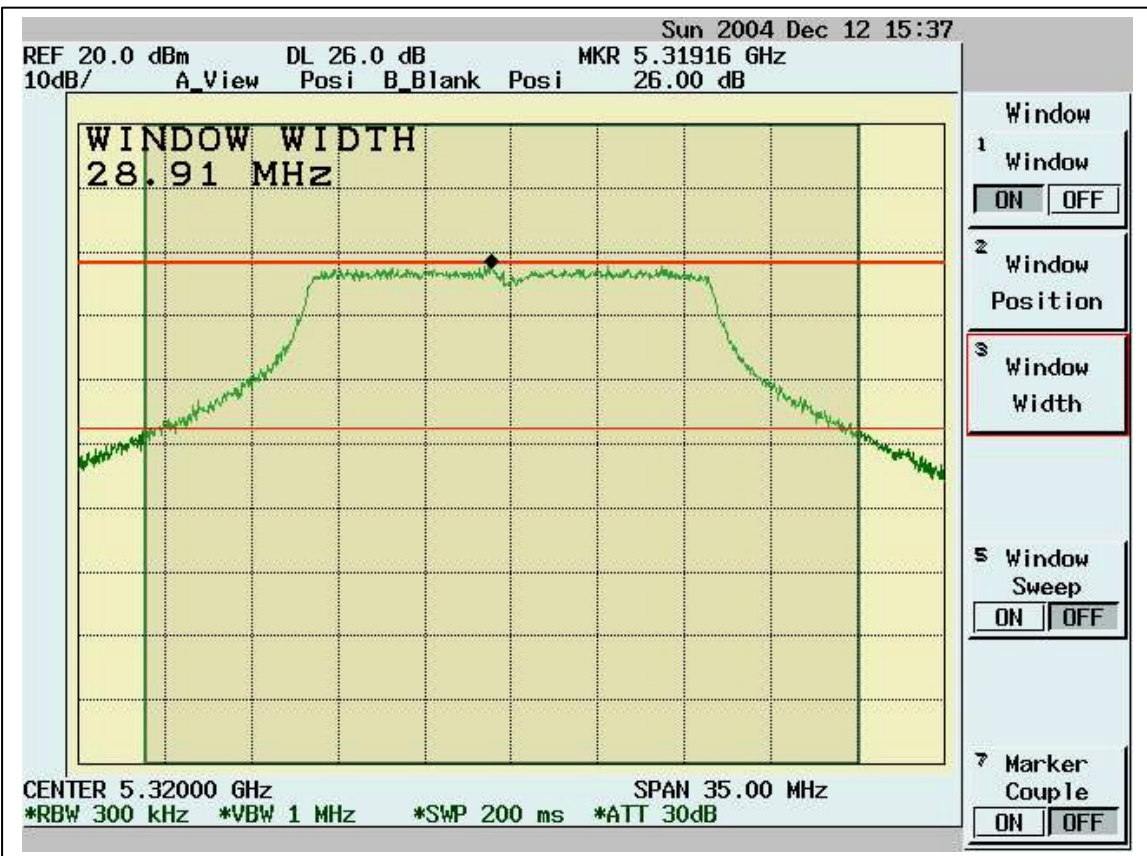
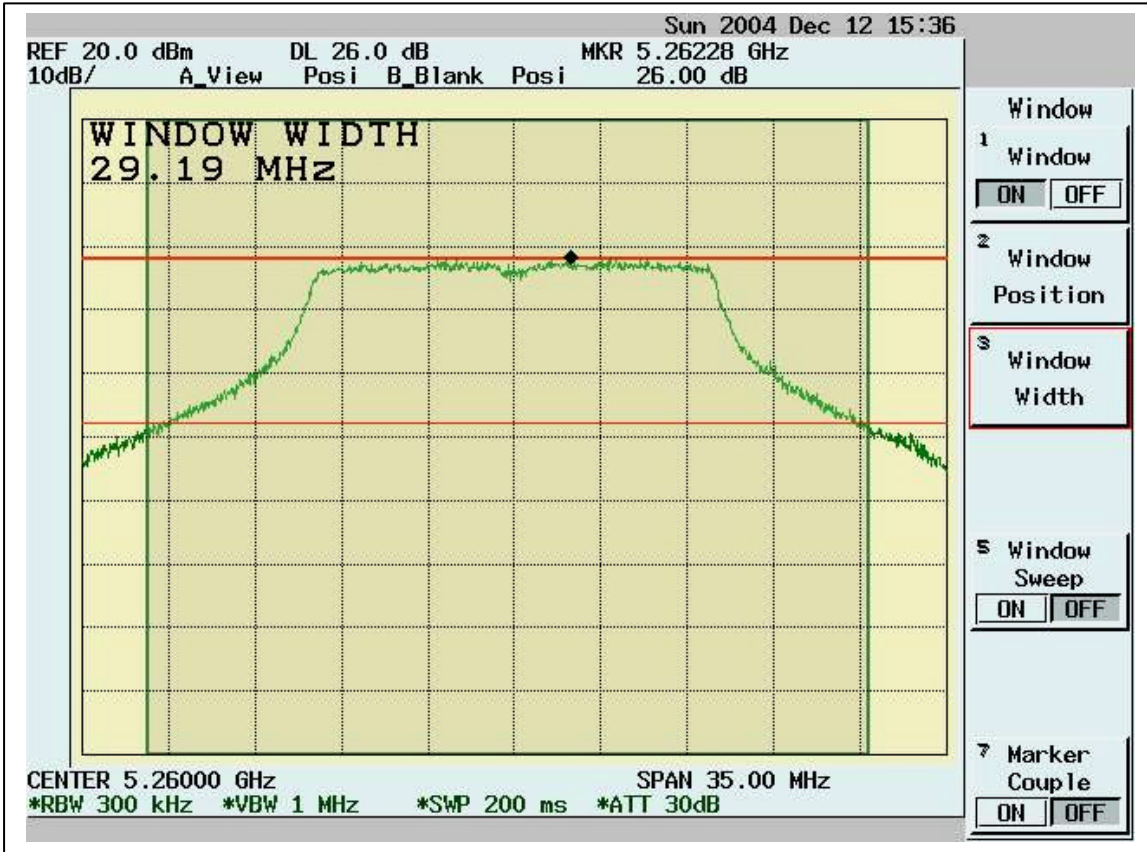
Chennel	Frequency (MHz)	Peak Power Output (dBm)	26 dBc Bandwidth/Limit (MHz)/(dBm)	The lesser Limit (dBm)	Pass/Fail
1	5180	16.405	28.00/18.47	17	Pass
4	5240	16.467	28.42/18.53	17	Pass
5	5260	17.498	29.19/25.65	24	Pass
8	5320	16.779	28.91/25.61	24	Pass
9	5745	19.811	29.12/31.64	30	Pass
12	5805	20.561	30.80/31.88	30	Pass

**6.1.4 Test Data: (Turbo Mode)**

**Maximum Peak Output Power**

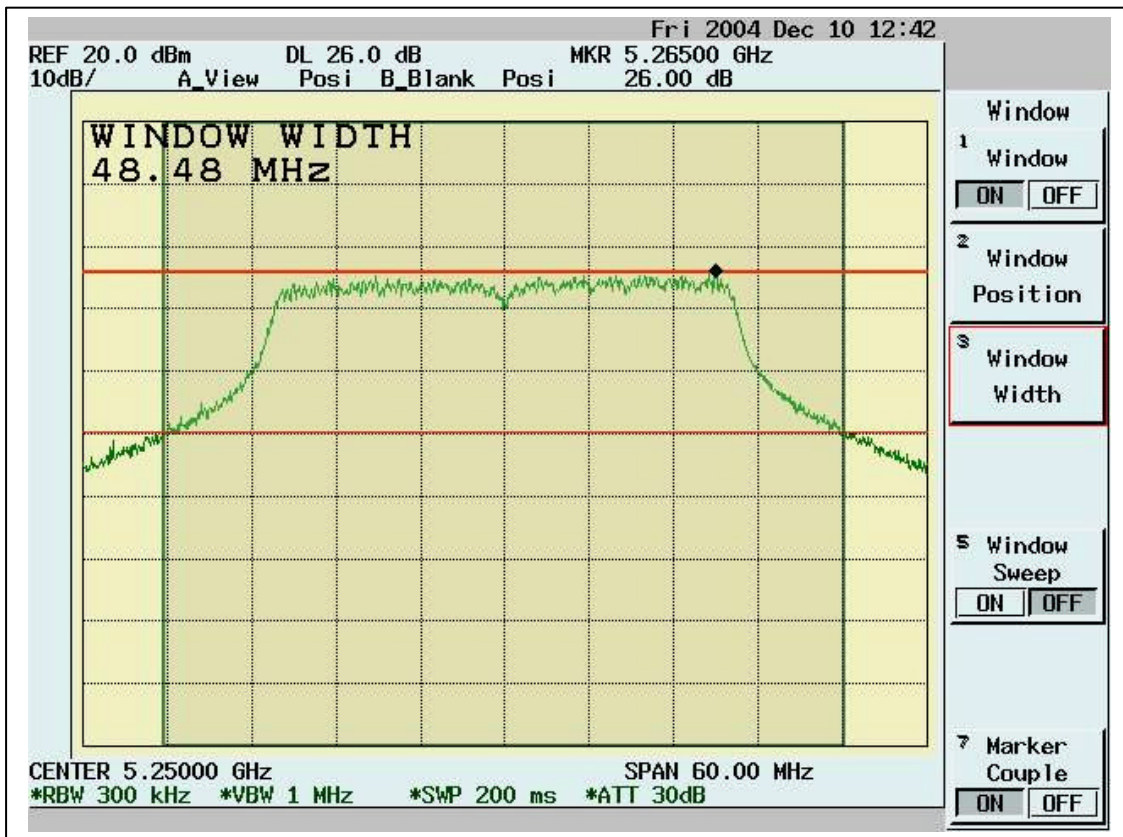
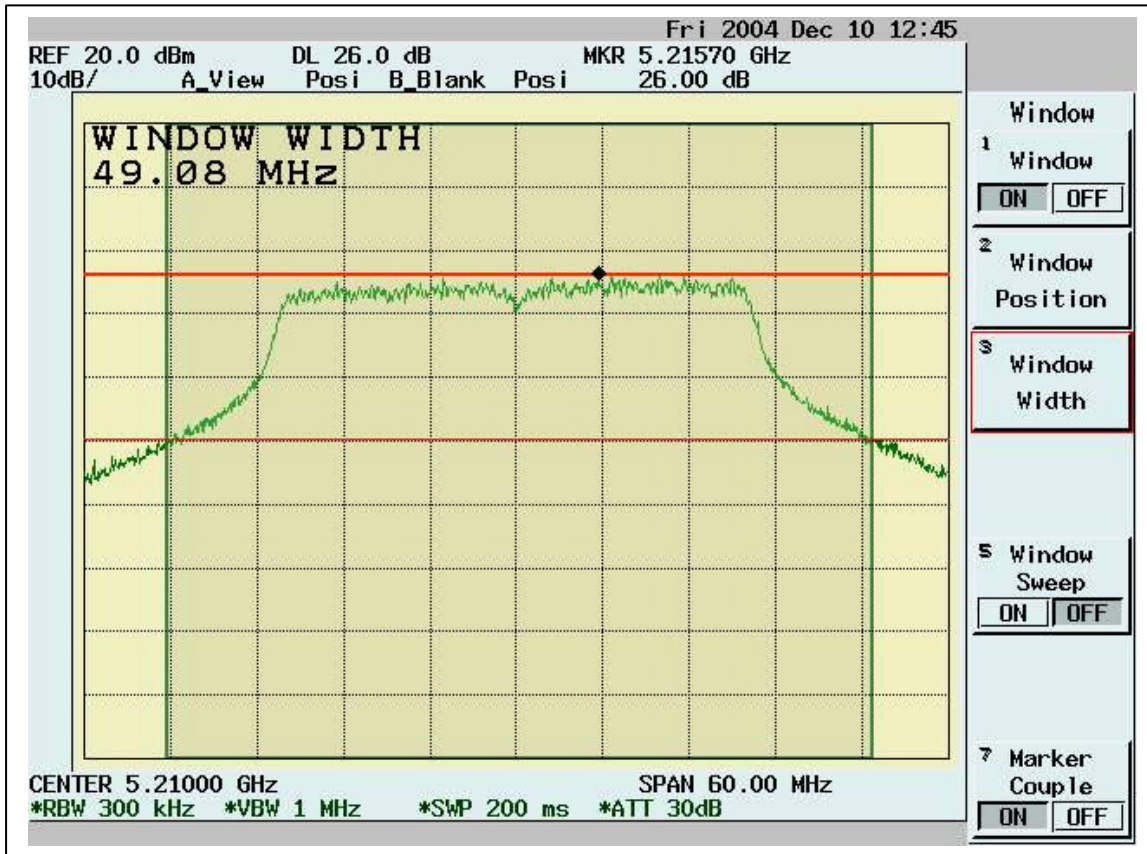
Chennel	Frequency (MHz)	Peak Power Output (dBm)	26 dBc Bandwidth/Limit (MHz)/(dBm)	The lesser Limit (dBm)	Pass/Fail
1	5210	14.998	49.08/20.9	17	Pass
2	5250	16.467	48.48/20.85	17	Pass
3	5290	16.279	49.80/27.97	24	Pass
4	5760	17.811	54.96/34.40	30	Pass
5	5800	19.623	55.08/34.40	30	Pass

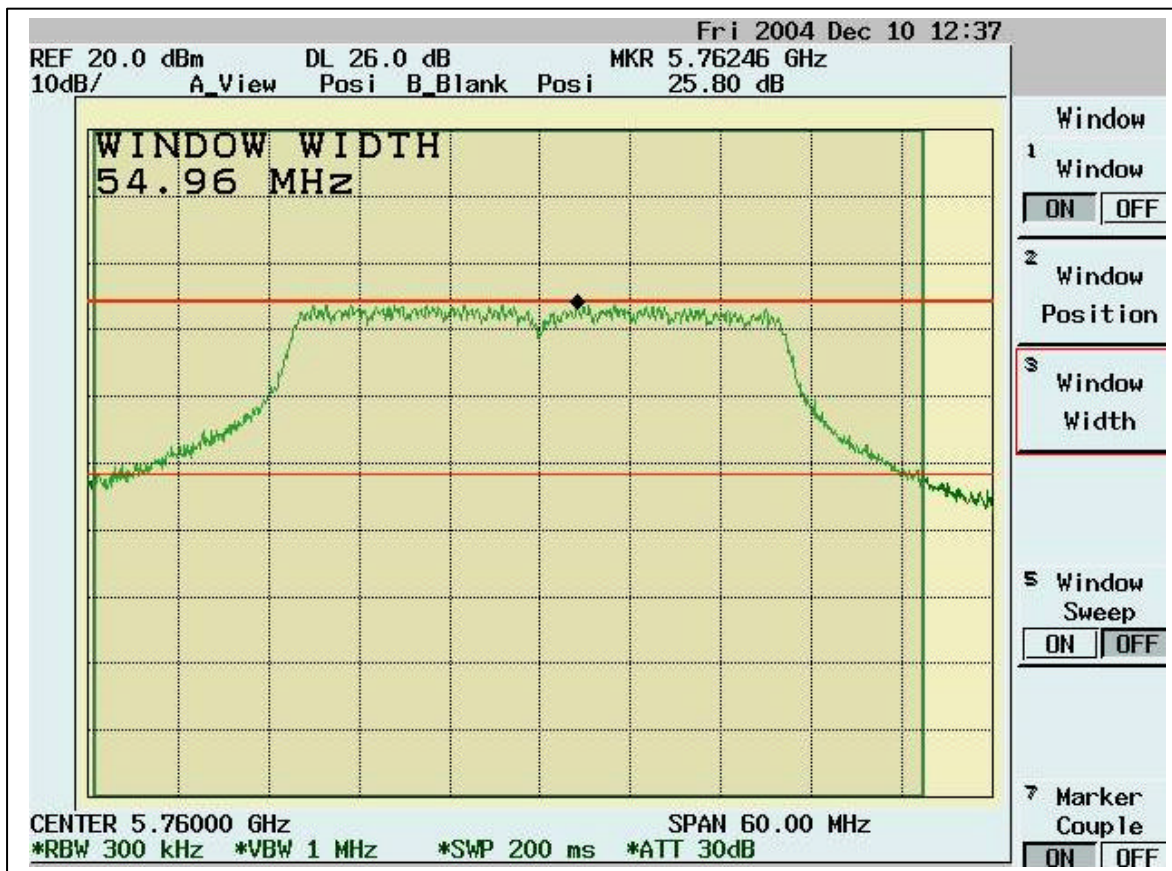
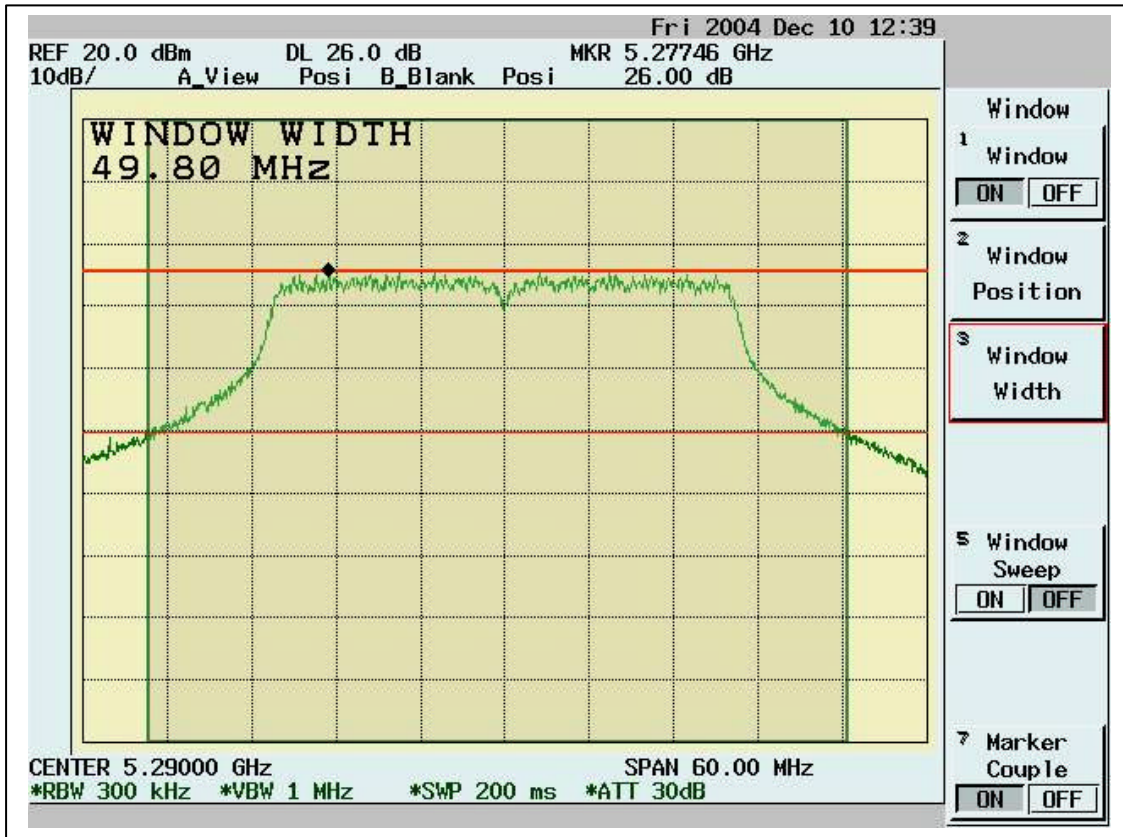


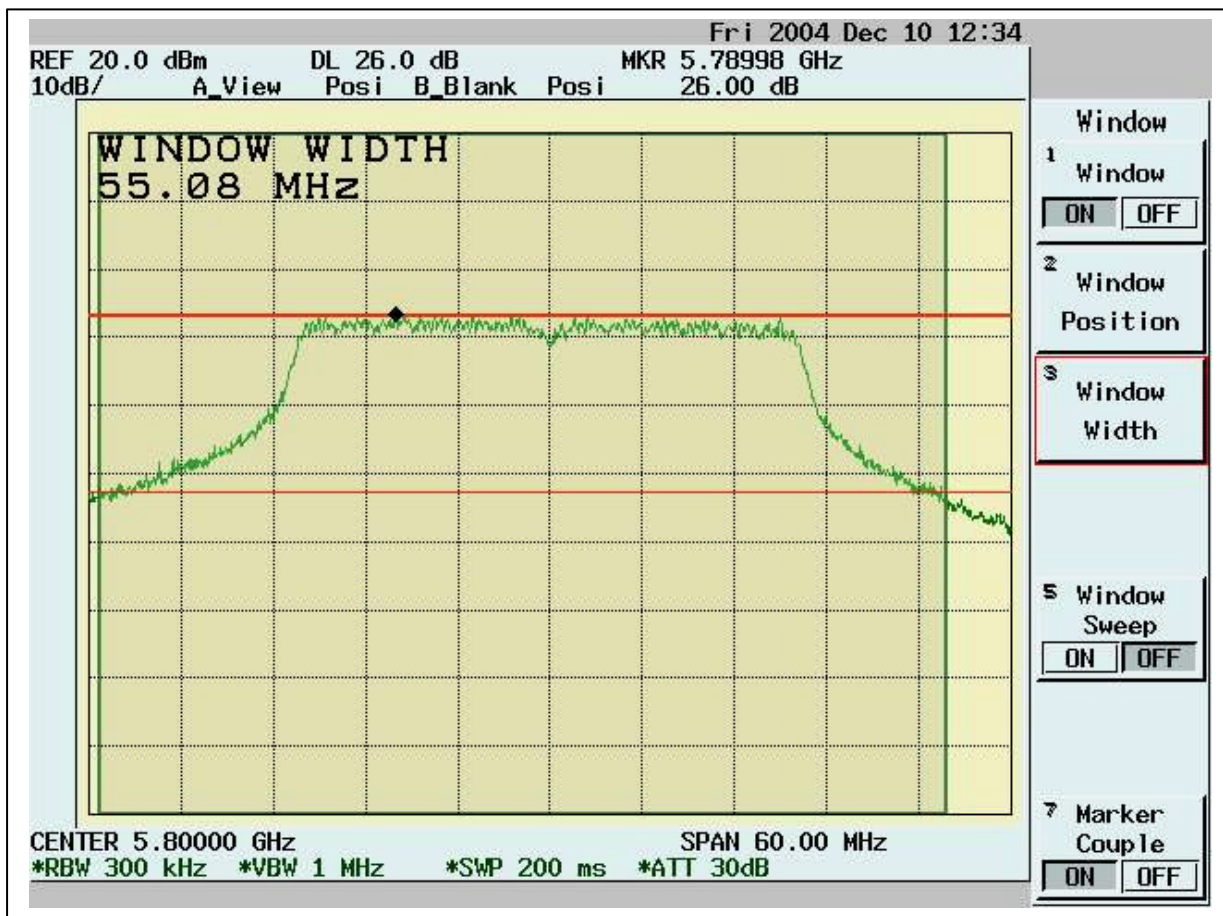










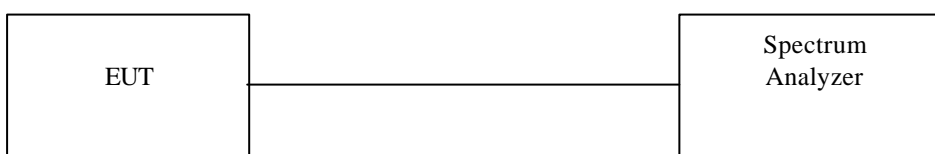


## 6.2 Peak Power Spectral Density [Section 15.407(a)(1)(2)(3) ]

### 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.
2. Using Peak Search to read the peak power after Maximum Hold function is completed.

### 6.2.2 Test Setup



### 6.2.3 Test Data: (Normal Mode)

**Maximum Peak Output Power Density**

Chennel	Frequency (MHz)	spectrum Reading (dBm)	Cable loss(dB)	Peak Power Output (dBm/MHz)	Limit (dBm/MHz)	Pass/Fail
1	5180	0.23	1.28	1.51	4	Pass
4	5240	-0.21	1.28	1.07	4	Pass
5	5260	-0.41	1.28	0.87	11	Pass
8	5320	-0.25	1.28	1.03	11	Pass
9	5745	0.92	1.28	2.20	17	Pass
12	5805	2.60	1.28	3.88	17	Pass

### 6.2.4 Test Data: (Turbo Mode)

**Maximum Peak Output Power Density**

Chennel	Frequency (MHz)	spectrum Reading (dBm)	Cable loss(dB)	Peak Power Output (dBm/MHz)	Limit (dBm/MHz)	Pass/Fail
1	5210	1.78	1.28	3.06	4	Pass
2	5250	0.95	1.28	2.23	4	Pass
3	5290	0.91	1.28	2.19	11	Pass
4	5760	2.65	1.28	3.93	17	Pass

5	5800	2.66	1.28	3.94	17	Pass
---	------	------	------	------	----	------

