

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

5.7.2 Test Setup

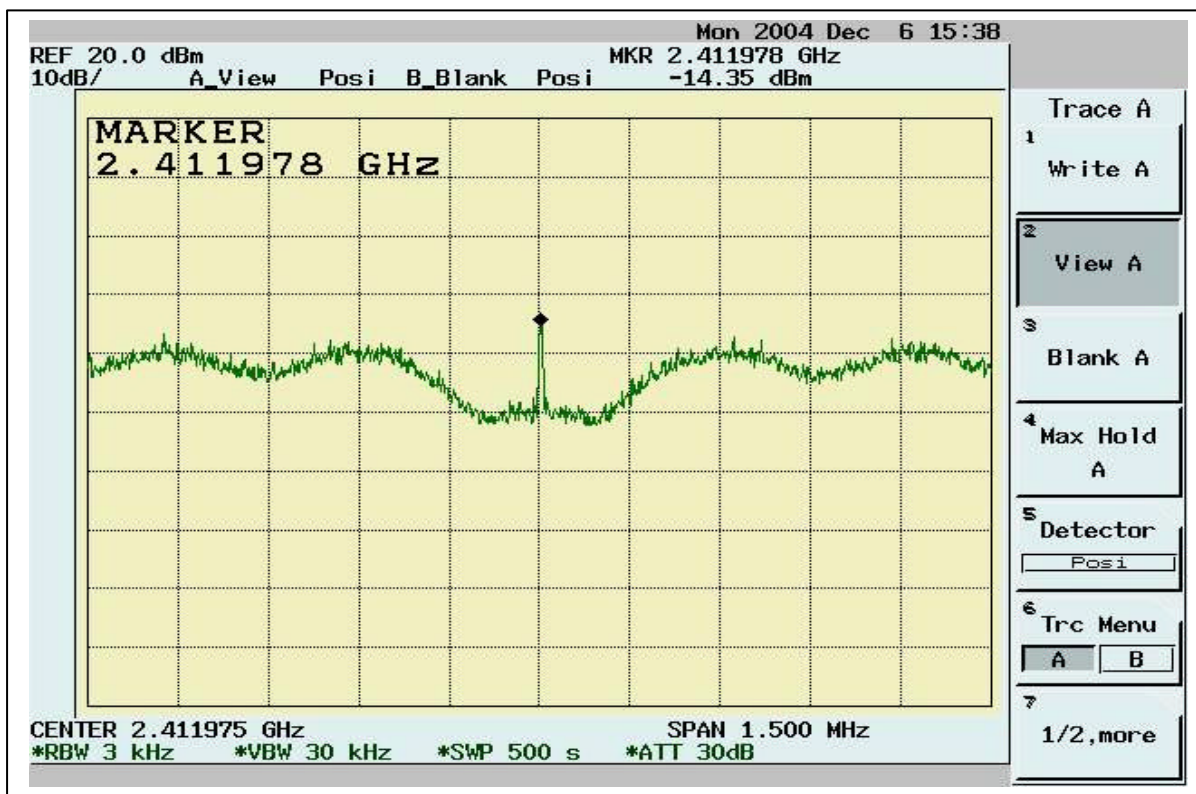


5.7.3 Test Data:

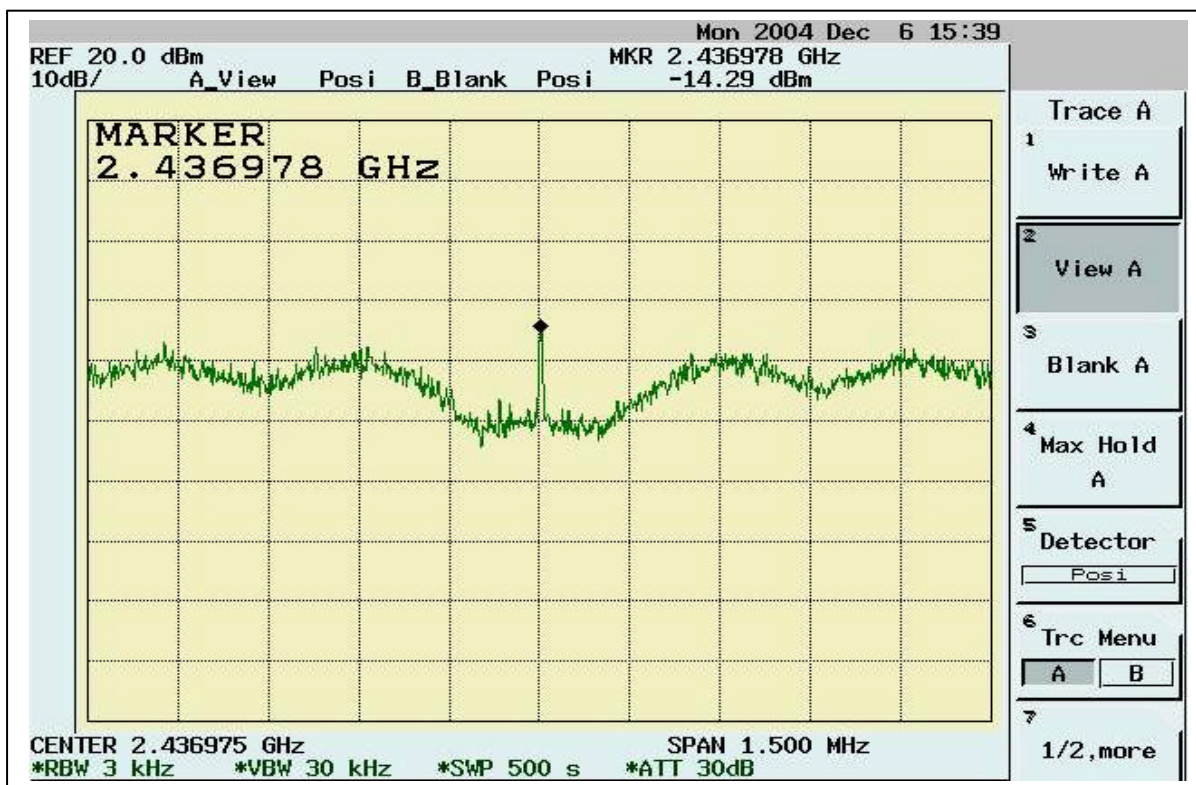
Maximum Peak Output Power Density

Chennel	Spectrum Reading (dBm/3KHz)	Cable Loss (dB)	Peak Power Output (dBm/3KHz)	Limit (dBm/3KHz)	Pass/Fail
1	-14.35	1.1	-13.25	8	Pass
6	-14.29	1.1	-13.19	8	Pass
11	-14.46	1.1	-13.36	8	Pass

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	16.312	29.12/18.64	17	Pass
4	5240	16.031	29.12/18.64	17	Pass
5	5260	16.562	29.12/25.64	24	Pass
8	5320	16.749	28.42/25.53	24	Pass
9	5745	18.126	30.31/31.81	30	Pass
12	5805	18.343	32.62/32.13	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	16.281	50.64/21.04	17	Pass
2	5250	15.812	50.64/21.04	17	Pass
3	5290	18.568	51.60/28.12	24	Pass
4	5760	18.312	53.76/34.30	30	Pass
5	5800	18.374	56.52/34.52	30	Pass

