

26	299.983M	37.6	-26.6 +1.3	+13.1	+1.8	+0.3	+0.0	27.5	46.0	-18.5	Vert
27	166.686M	38.9	-26.9 +0.9	+9.8	+1.4	+0.3	+0.0	24.4	43.5	-19.1	Horiz
28	366.670M	32.1	-27.1 +1.3	+14.9	+2.0	+0.4	+0.0	23.6	46.0	-22.4	Vert
29	320.024M	33.1	-26.8 +1.3	+13.7	+1.9	+0.3	+0.0	23.5	46.0	-22.5	Horiz
30	340.024M	32.0	-26.9 +1.3	+14.2	+2.0	+0.4	+0.0	23.0	46.0	-23.0	Horiz
31	966.658M	27.8	-27.6 +2.3	+23.9	+3.4	+0.6	+0.0	30.4	54.0	-23.6	Horiz
32	966.728M	27.5	-27.6 +2.3	+23.9	+3.4	+0.6	+0.0	30.1	54.0	-23.9	Vert
33	74.965M	33.5	-27.2 +0.6	+6.9	+0.9	+0.2	+0.0	14.9	40.0	-25.1	Horiz

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Silex Technology, America, Inc.**

Specification: **FCC 15.247 (d) (FCC 15.209)**

Work Order #: **88495**

Date: 10/6/2008

Test Type: **Radiated Scan**

Time: 13:47:53

Equipment: **Wireless Device Server**

Sequence#: 1

Manufacturer: Silex Technology America, Inc.

Tested By: Sep Apahidean

Model: SX-510

S/N: 4

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
Antenna cable	Cable#17	09/22/2008	09/22/2010	P04382
Heliacx Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
Microwave Pre-amp	3123A00282	06/05/2007	06/05/2009	00787
Horn Antenna 1-18GHz	9603-4683	06/06/2008	06/06/2010	01646
2'-40GHz cable	NA	09/18/2007	09/18/2009	P02947
Microwave Pre-amp 1-40GHz	00323	02/05/2008	02/05/2010	02810
18-26GHz Horn	942126-003	09/21/2007	09/21/2009	01413
3'-40GHz cable	NA	09/18/2007	09/18/2009	P02945

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Power Supply	SL Power	MW170KB0503F01	NA
Wireless Device Server*	Silex Technology America, Inc.	SX-510	4
MiniPCI Wireless Board	Silex Technology America, Inc.	SX-10WAG	0080923A9E74
Antenna	Silex Technology America, Inc.	128-00193-100 Rev A	-

**Support Devices:**

Function	Manufacturer	Model #	S/N
Laptop	Sony	PCG-982L	28323330
Wireless Access Point	3 Com	WL-526	0200/MUGA6DEB4723F

**Test Conditions / Notes:**

The EUT is placed on the wooden table with Styrofoam padding of 5 cm thickness. The device is configured in Wireless to Serial mode. The wireless modem is connected to a remote support laptop via a remote support wireless router. The serial port is connected to a section of terminated null modem cable with the terminator placed remotely. The laptop is running test software to exercise the unit and the serial port in a loop back configuration. 21°C, 65% relative humidity. 1-25GHz test range, bandwidth 1MHz. 802.11b mode of operation L M H, 802.11g mode of operation L M H.

**Transducer Legend:**

T1=84' Heliac Cable P04382_#17	T2=Heliac Cable 54' ANP05565 090410
T3=Preamplifier 83017A 00787	T4=Horn Ant AN01646 060610
T5=CAB-ANP02947 091807	T6=AMP-AN02810-020508
T7=ANT 18-26GHz Horn AN01413	T8=CAB-ANP02945 091807

**Measurement Data:**

Reading listed by margin.

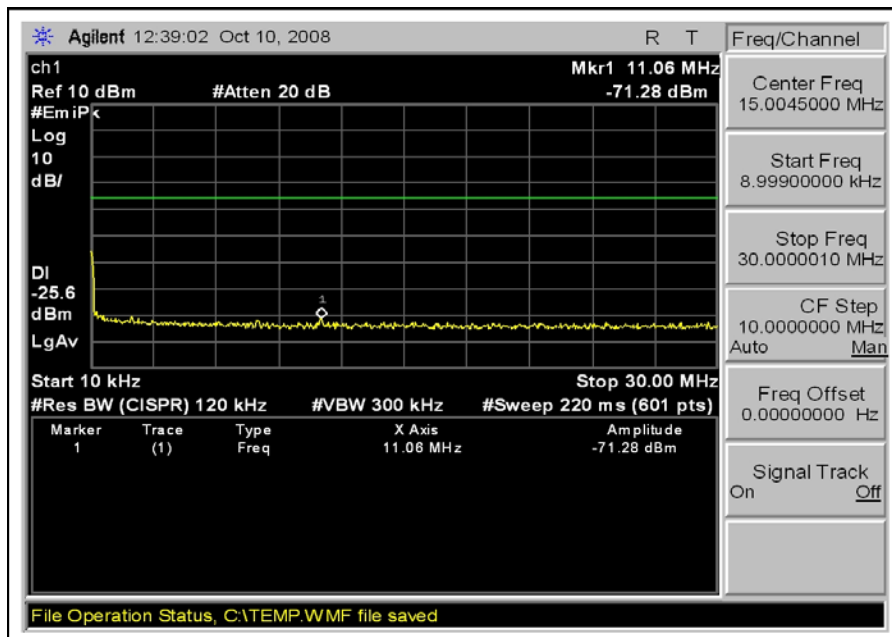
Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	T4 dB	T5 dB	T6 dB	T7 dB	T8 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	17583.350 M	7.0	+24.4 +1.0	+12.6 +0.0	-37.7 +0.0	+43.6 +0.0	+0.0	50.9	54.0	-3.1	Vert				
2	4436.110M	39.3	+8.2 +0.4	+5.3 +0.0	-39.4 +0.0	+32.5 +0.0	+0.0	46.3	54.0	-7.7	Horiz				
3	15035.400 M	12.5	+18.9 +0.9	+11.7 +0.0	-37.8 +0.0	+39.9 +0.0	+0.0	46.1	54.0	-7.9	Vert				
4	12928.400 M	16.9	+17.2 +0.9	+10.1 +0.0	-39.0 +0.0	+39.2 +0.0	+0.0	45.3	54.0	-8.7	Vert				
5	11507.400 M	16.5	+15.8 +0.7	+9.6 +0.0	-39.5 +0.0	+38.8 +0.0	+0.0	41.9	54.0	-12.1	Vert				
6	10821.400 M	17.7	+15.5 +0.7	+9.0 +0.0	-39.4 +0.0	+38.1 +0.0	+0.0	41.6	54.0	-12.4	Vert				
7	2190.785M	43.2	+5.4 +0.3	+3.6 +0.0	-38.9 +0.0	+27.7 +0.0	+0.0	41.3	54.0	-12.7	Horiz				
8	9195.350M	21.4	+12.7 +0.7	+8.2 +0.0	-39.5 +0.0	+37.5 +0.0	+0.0	41.0	54.0	-13.0	Vert				
9	1744.985M	45.0	+4.8 +0.3	+3.1 +0.0	-38.9 +0.0	+26.2 +0.0	+0.0	40.5	54.0	-13.5	Horiz				
10	1499.250M	46.7	+4.4 +0.2	+2.9 +0.0	-38.8 +0.0	+25.0 +0.0	+0.0	40.4	54.0	-13.6	Horiz				
11	1852.285M	44.0	+5.0 +0.3	+3.2 +0.0	-38.9 +0.0	+26.7 +0.0	+0.0	40.3	54.0	-13.7	Horiz				
12	1000.164M	50.3	+3.5 +0.2	+2.4 +0.0	-40.6 +0.0	+24.2 +0.0	+0.0	40.0	54.0	-14.0	Horiz				
13	9645.400M	19.4	+13.0 +0.7	+8.4 +0.0	-39.4 +0.0	+37.9 +0.0	+0.0	40.0	54.0	-14.0	Vert				
14	1166.540M	47.0	+3.8 +0.2	+2.5 +0.0	-39.9 +0.0	+24.5 +0.0	+0.0	38.1	54.0	-15.9	Horiz				
15	1000.029M	48.4	+3.5 +0.2	+2.4 +0.0	-40.6 +0.0	+24.2 +0.0	+0.0	38.1	54.0	-15.9	Vert				
16	1750.010M	37.8	+4.8 +0.3	+3.1 +0.0	-38.9 +0.0	+26.2 +0.0	+0.0	33.3	54.0	-20.7	Vert				
17	1011.960M	43.4	+3.5 +0.2	+2.4 +0.0	-40.5 +0.0	+24.2 +0.0	+0.0	33.2	54.0	-20.8	Vert				

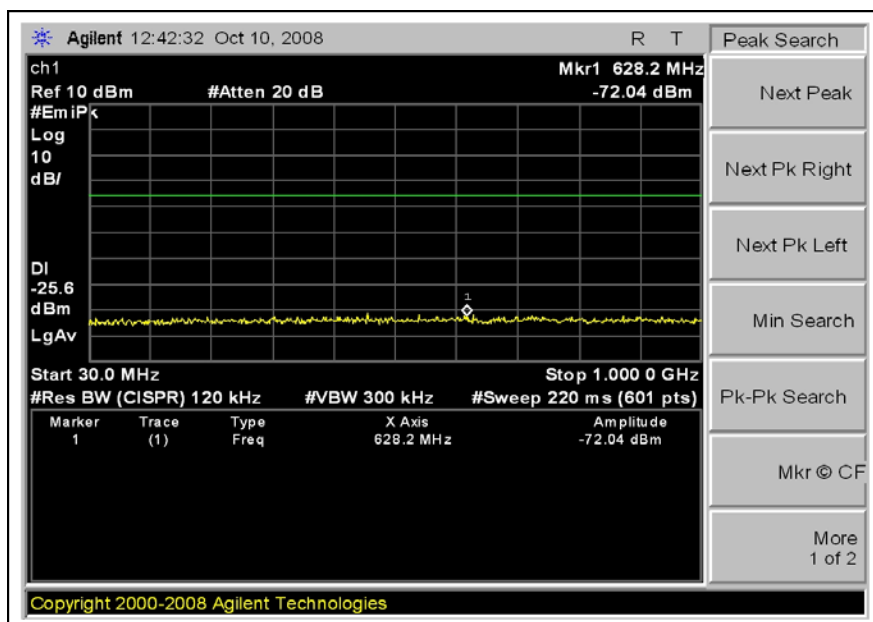
18	1253.230M	39.9	+4.0 +0.2	+2.6 +0.0	-39.6 +0.0	+24.6 +0.0	+0.0	31.7	54.0	-22.3	Vert
19	1244.490M	39.8	+3.9 +0.2	+2.5 +0.0	-39.6 +0.0	+24.6 +0.0	+0.0	31.4	54.0	-22.6	Vert
20	1277.630M	38.4	+4.0 +0.2	+2.6 +0.0	-39.5 +0.0	+24.7 +0.0	+0.0	30.4	54.0	-23.6	Vert
21	1500.030M	36.2	+4.4 +0.2	+2.9 +0.0	-38.8 +0.0	+25.0 +0.0	+0.0	29.9	54.0	-24.1	Vert
22	1422.290M	35.9	+4.2 +0.2	+2.7 +0.0	-39.0 +0.0	+24.9 +0.0	+0.0	28.9	54.0	-25.1	Vert
23	18997.350 M	11.6	+0.0 +1.0	+0.0 -26.4	+0.0 +40.4	+0.0 +1.6	+0.0	28.2	54.0	-25.8	Vert
24	1166.690M	36.9	+3.8 +0.2	+2.5 +0.0	-39.9 +0.0	+24.5 +0.0	+0.0	28.0	54.0	-26.0	Vert

### Test Plots

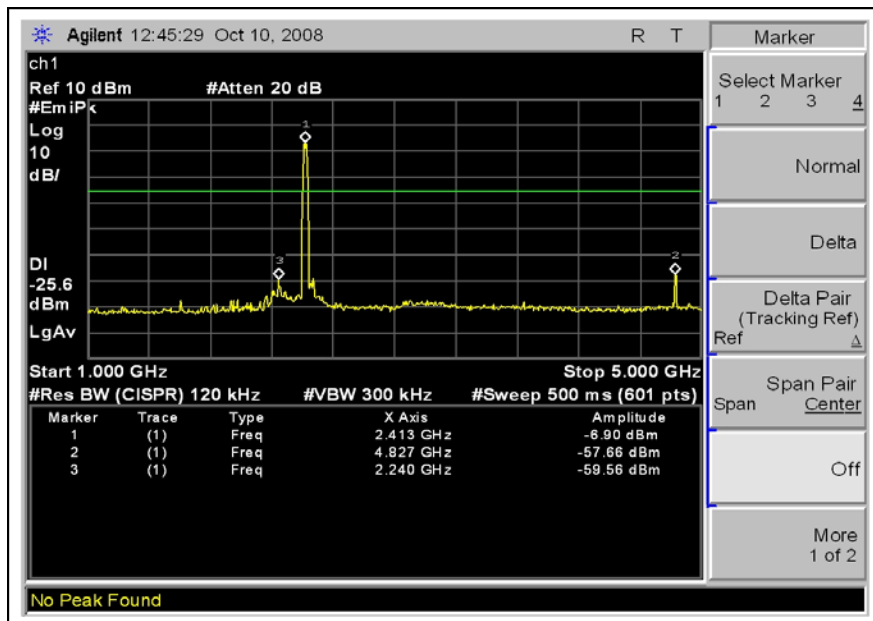
#### FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA A 9 kHz - 30 MHz



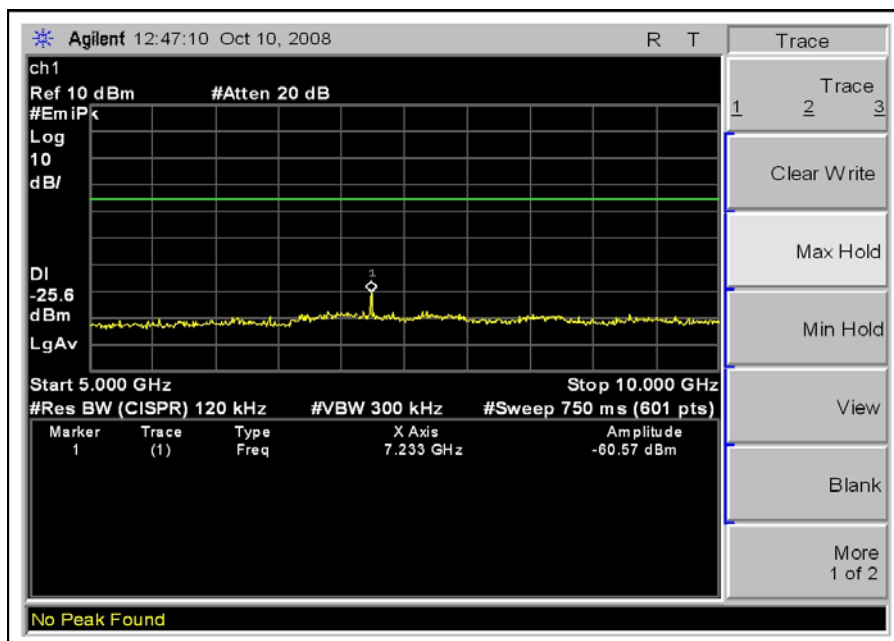
#### FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA A 30 MHz - 1 GHz



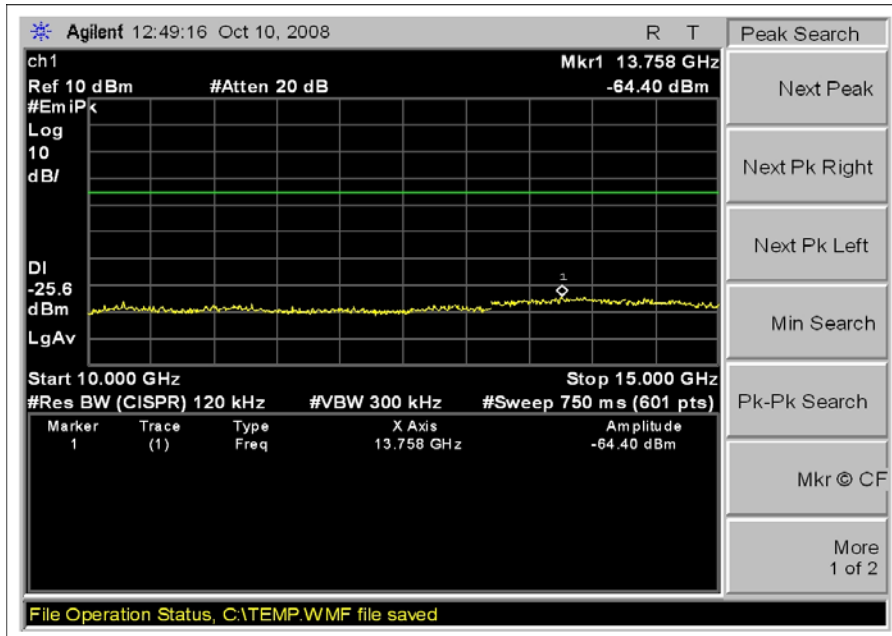
**FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA A 1GHz - 5 GHz**



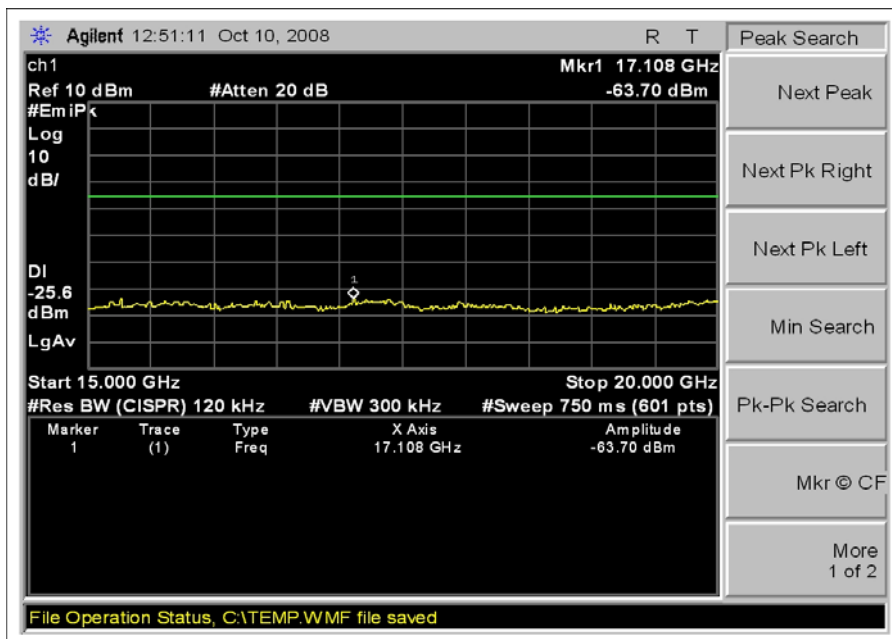
**FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA A 5 GHz - 10 GHz**



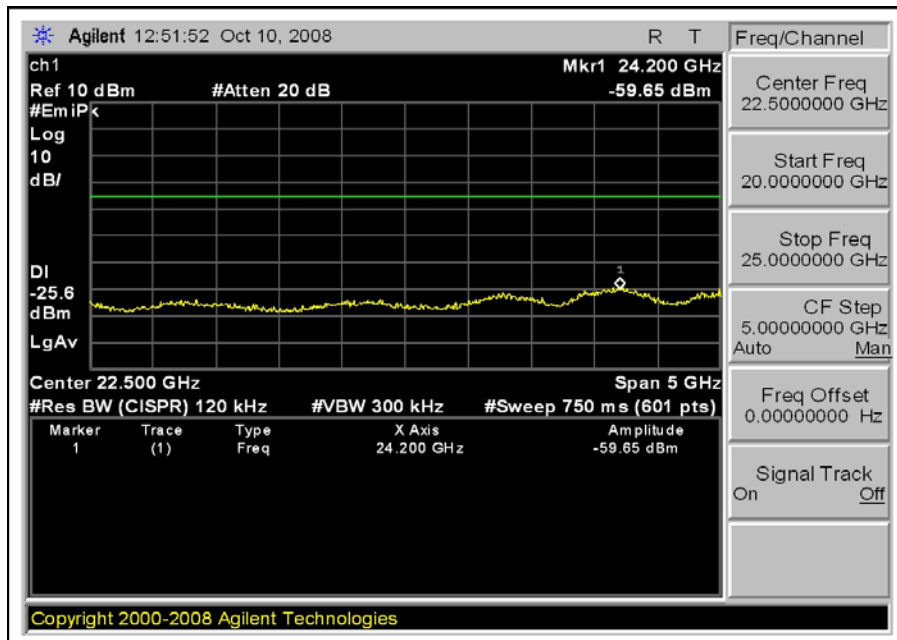
**FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA A 10GHz - 15 GHz**



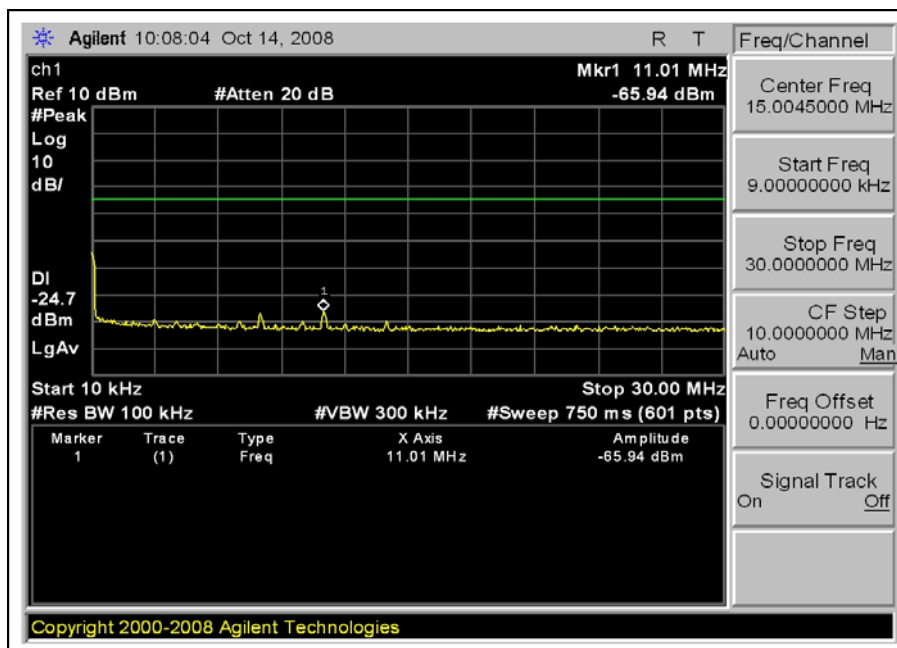
**FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA A 15GHz - 20GHz**



**FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA A 20GHz - 25GHz**

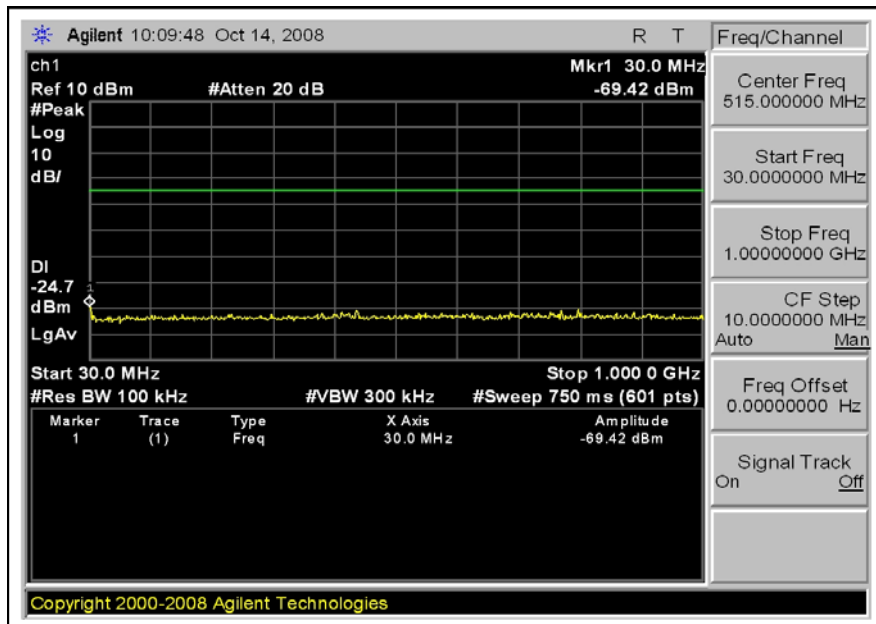


**FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA B 9 kHz - 30 MHz**

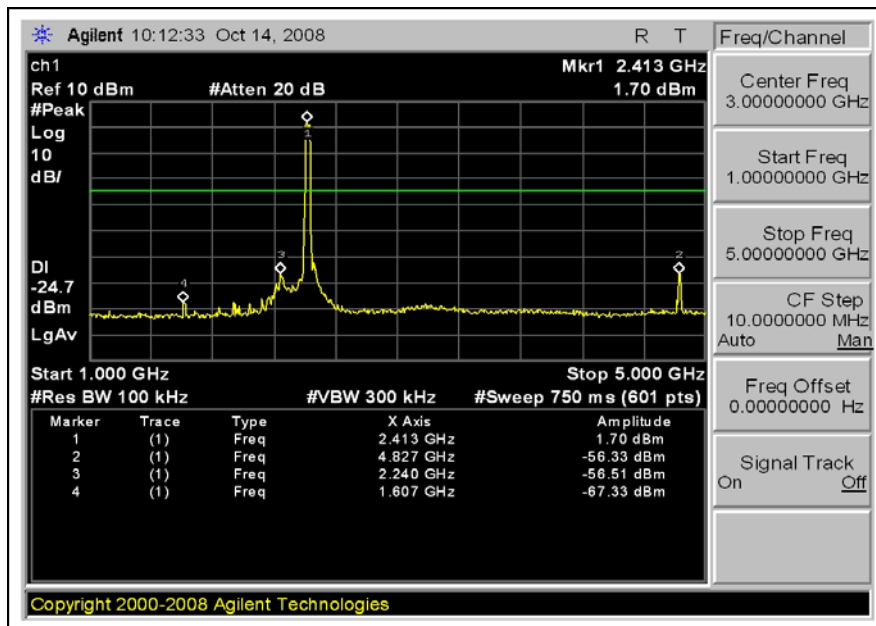




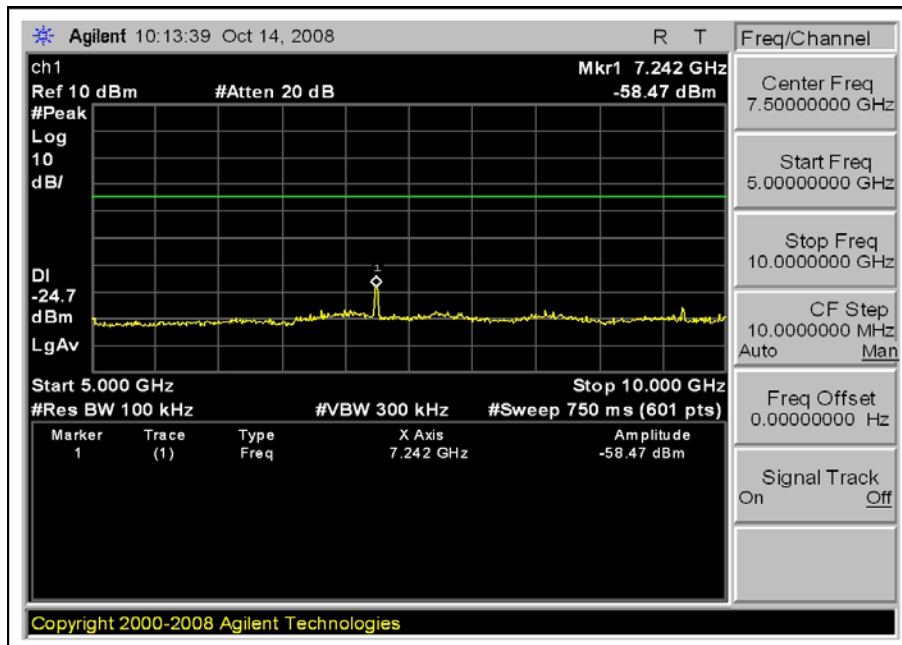
FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA B 30 MHz - 1 GHz



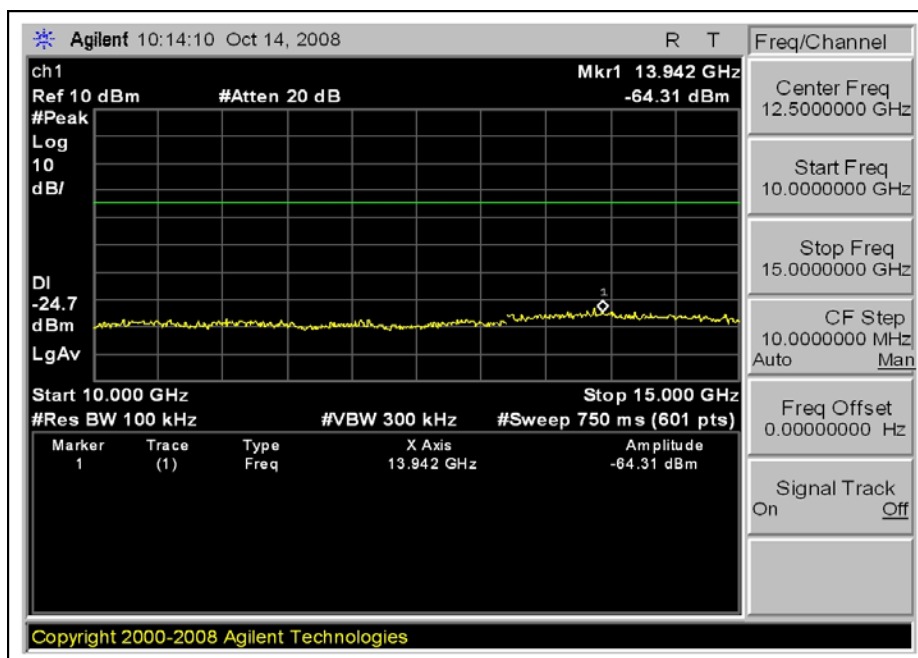
FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA B 1 GHz - 5 GHz



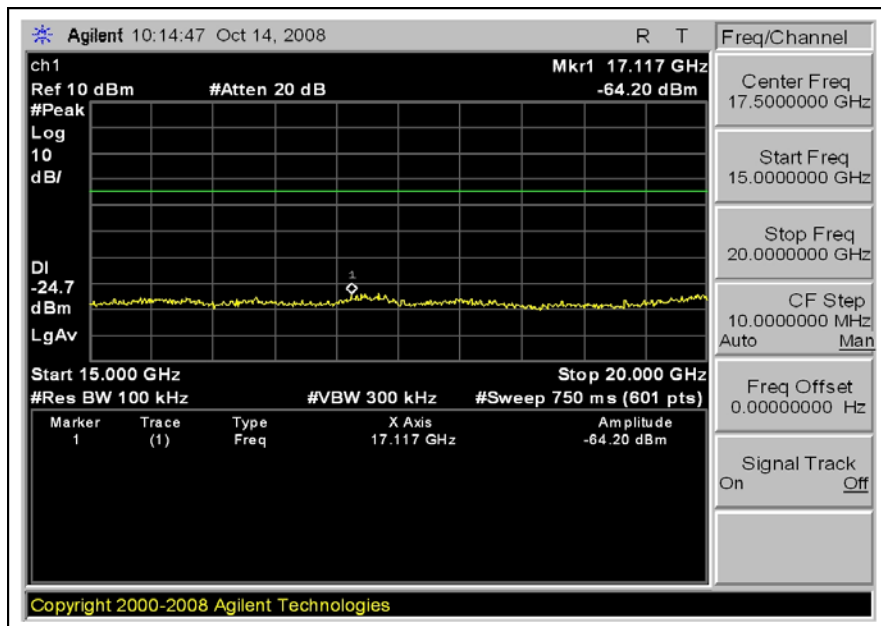
**FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA B 5 GHz - 10 GHz**



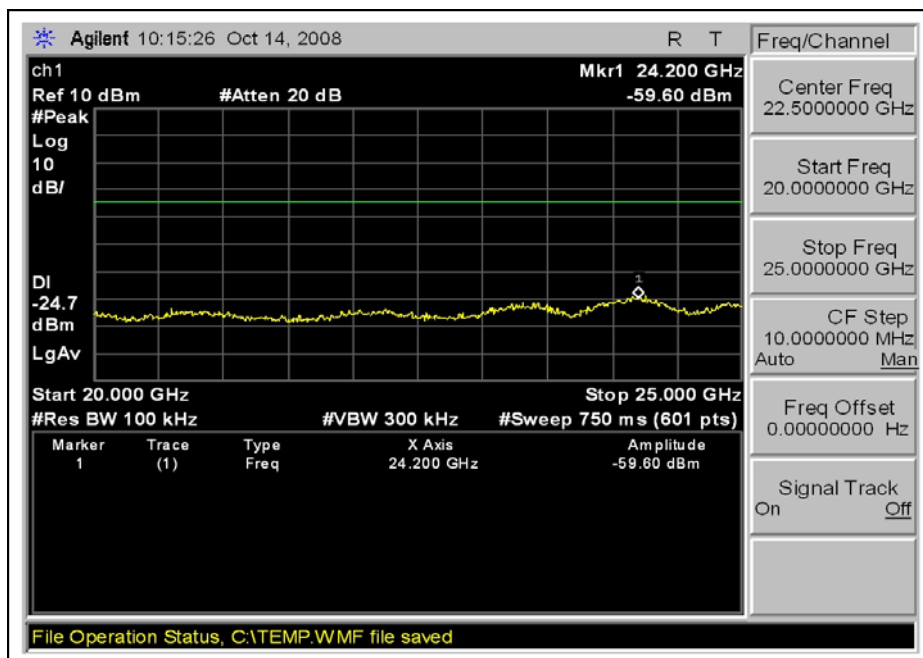
**FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA B 10 GHz - 15 GHz**



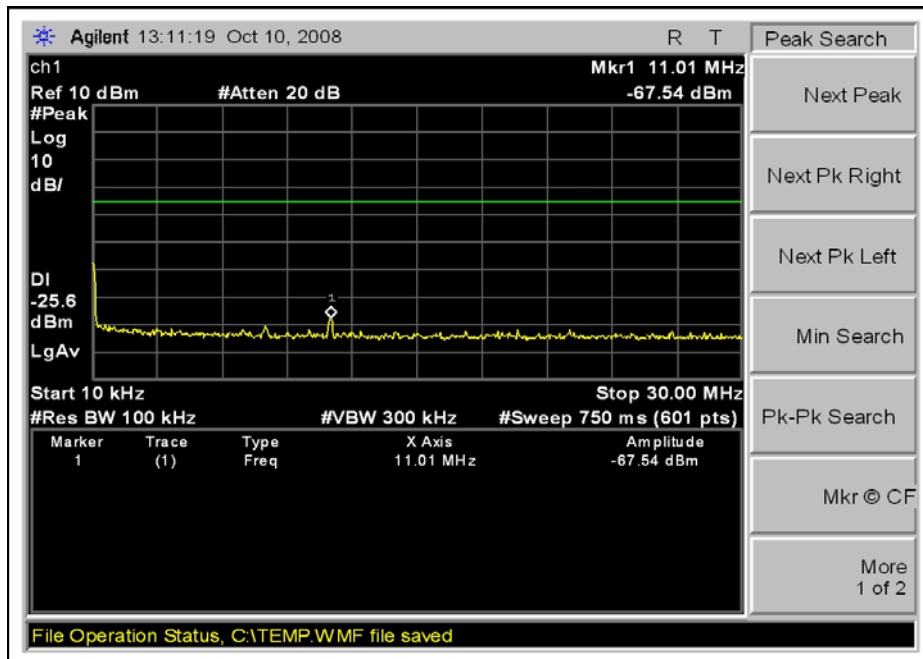
**FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA B 15 GHz - 20 GHz**



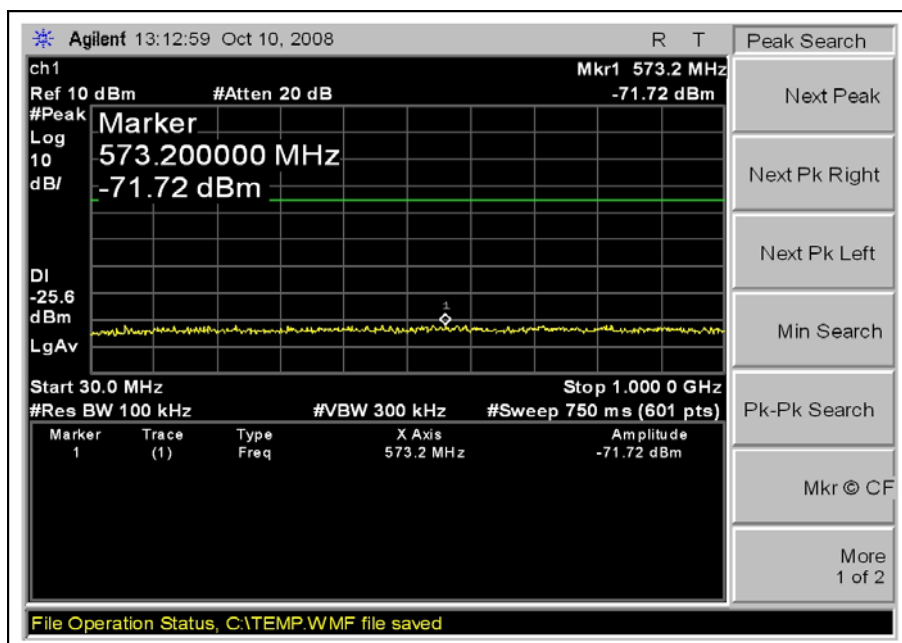
**FCC 15.247(d) 802.11b CHANNEL 1 ANTENNA B 20 GHz - 25 GHz**



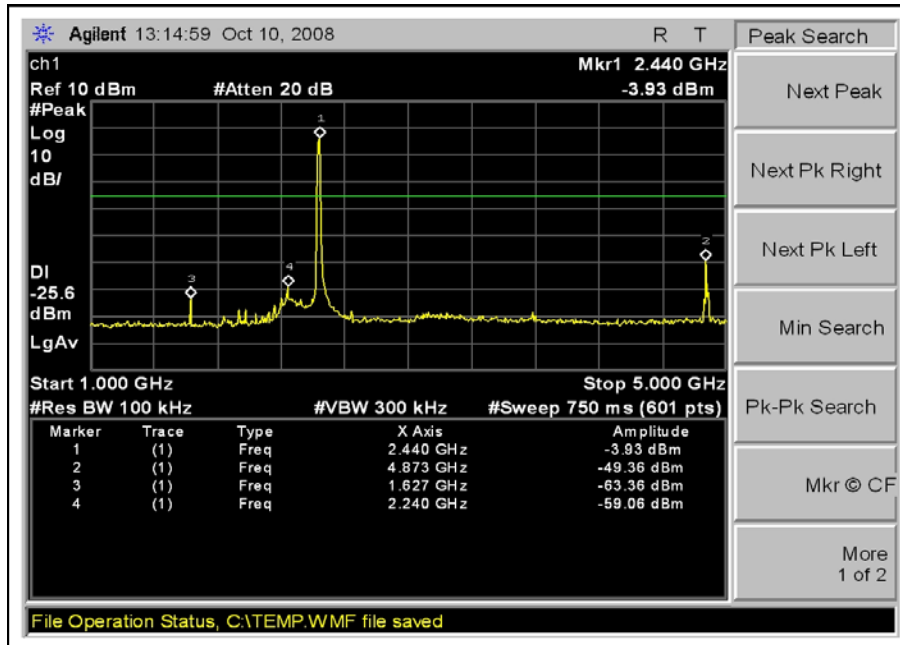
**FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA A 9 kHz - 30 MHz**



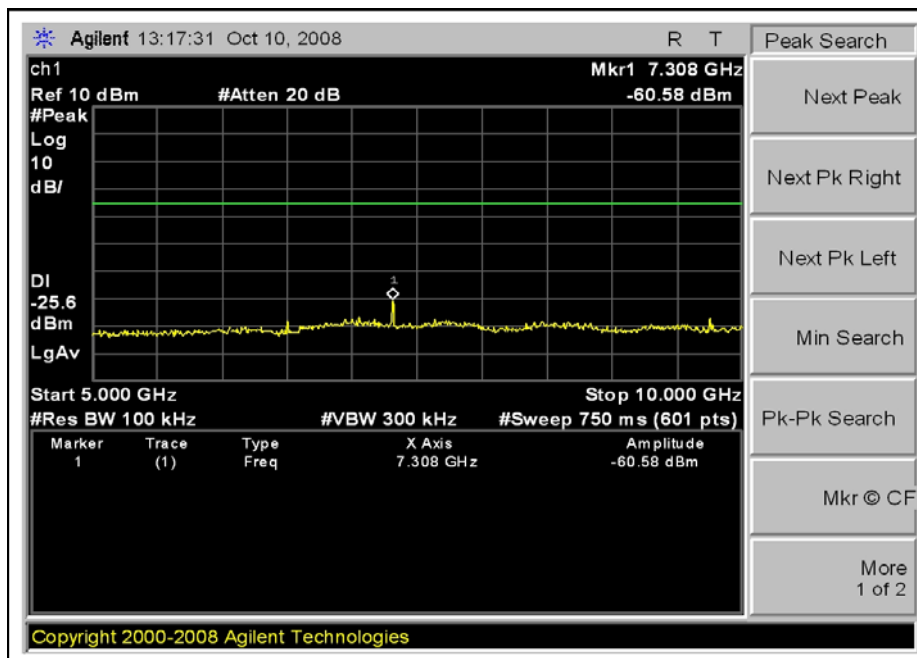
**FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA A 30 MHz - 1 GHz**



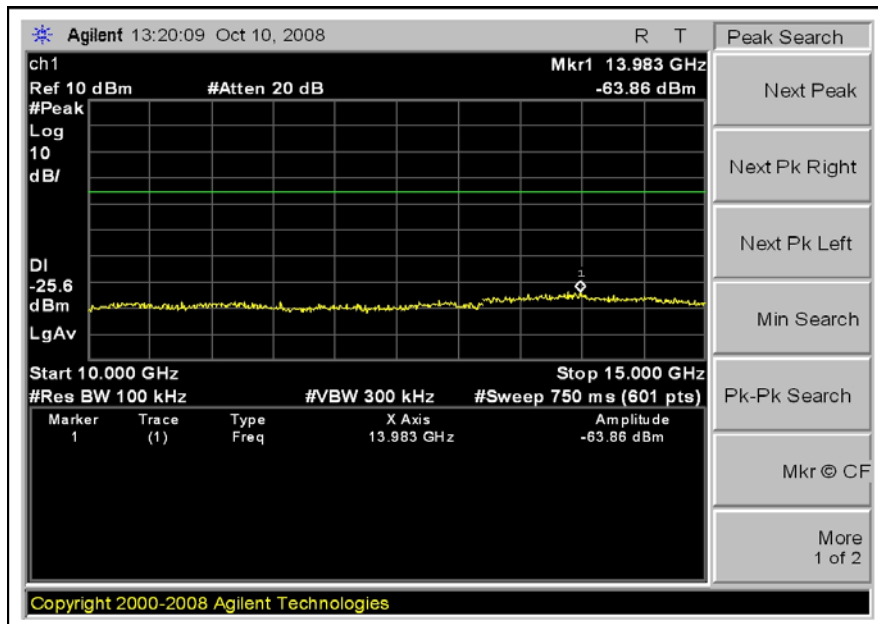
FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA A 1 GHz - 5 GHz



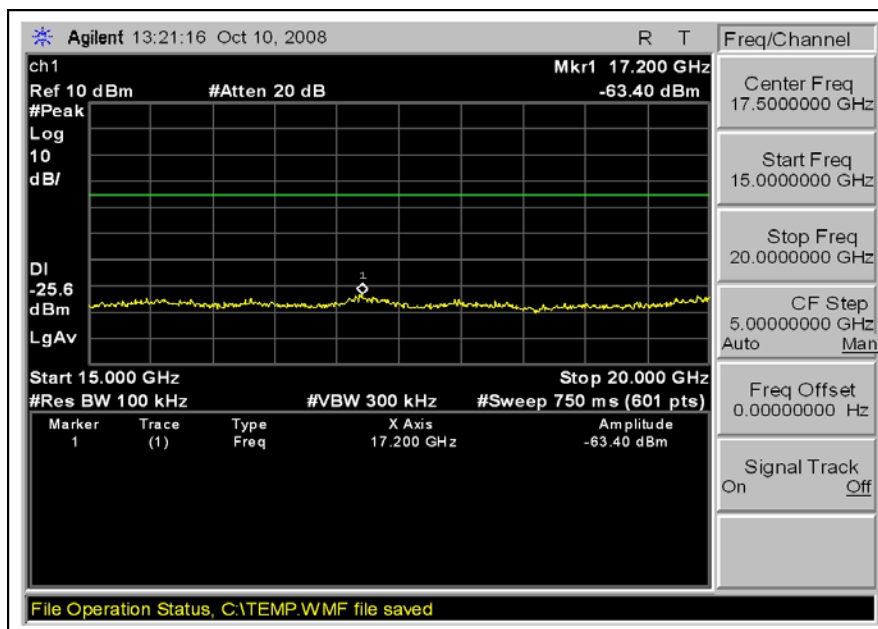
FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA A 5 GHz - 10 GHz



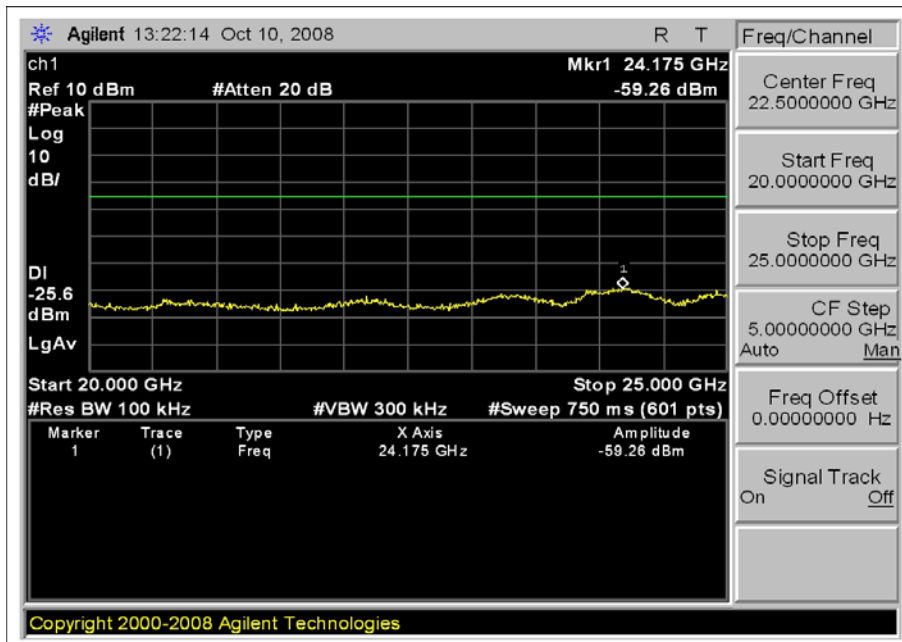
**FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA A 10 GHz - 15 GHz**



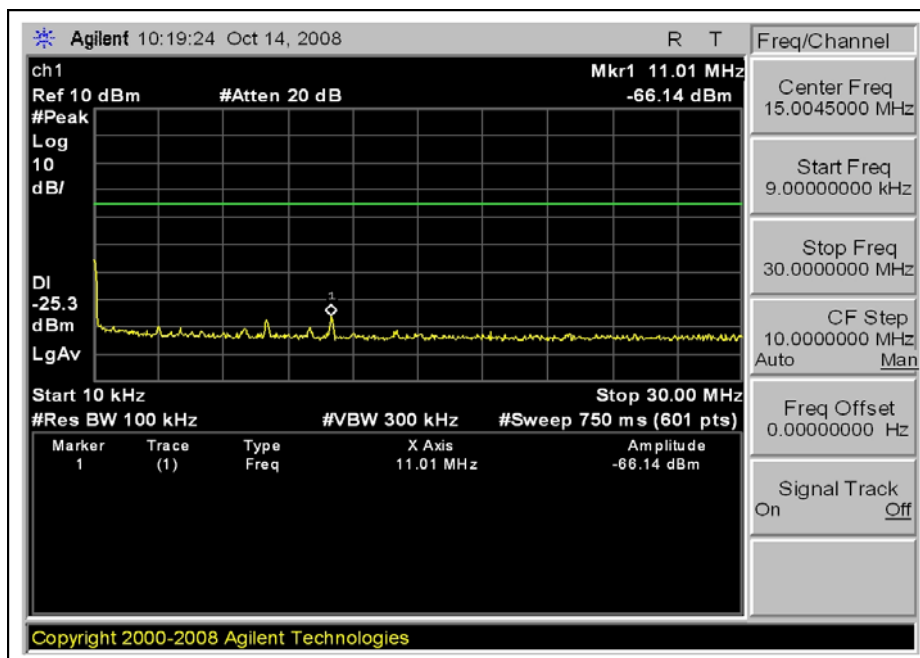
**FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA A 15 GHz - 20 GHz**



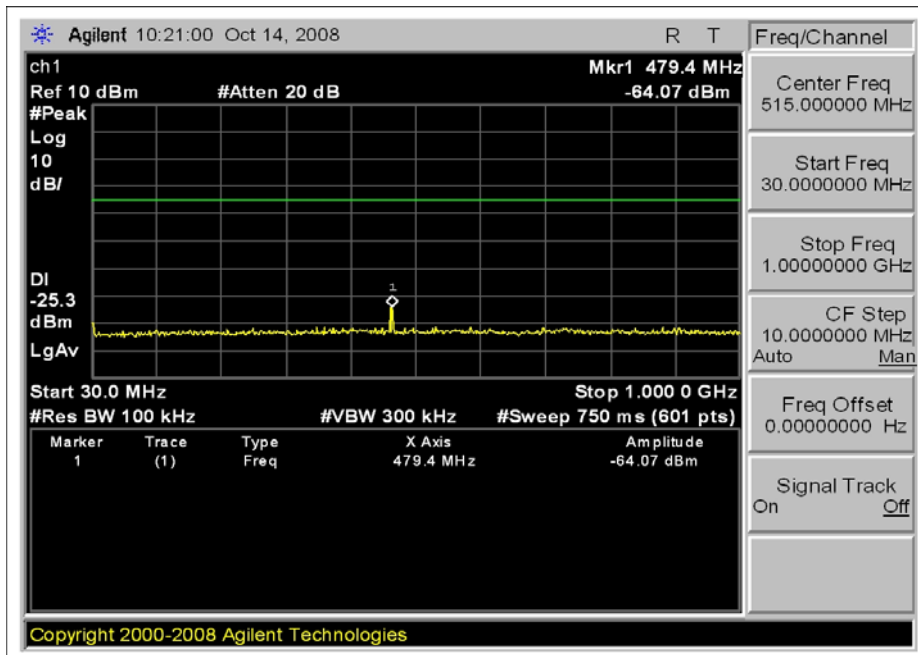
**FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA A 20 GHz - 25 GHz**



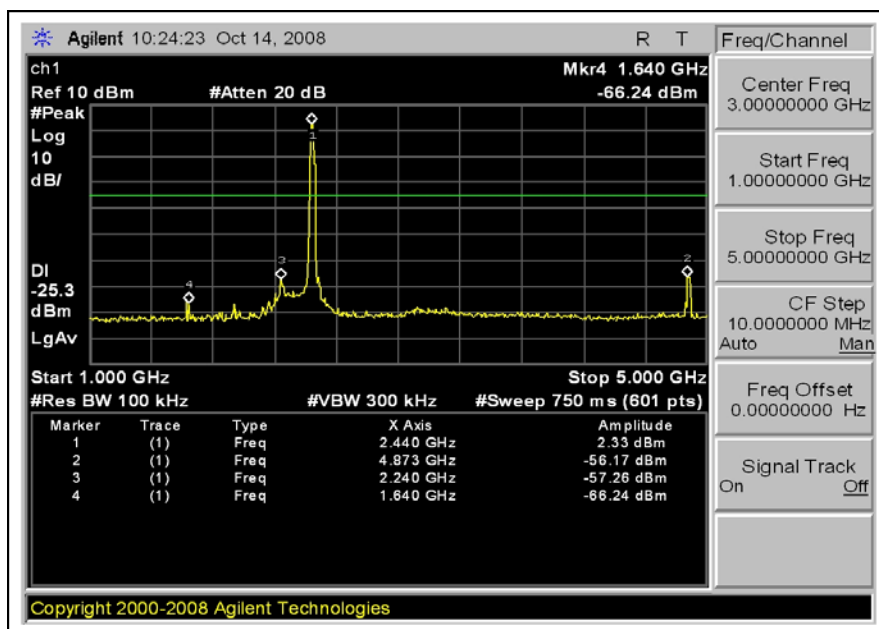
**FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA B 9 kHz - 30 MHz**



FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA B 30 MHz - 1 GHz

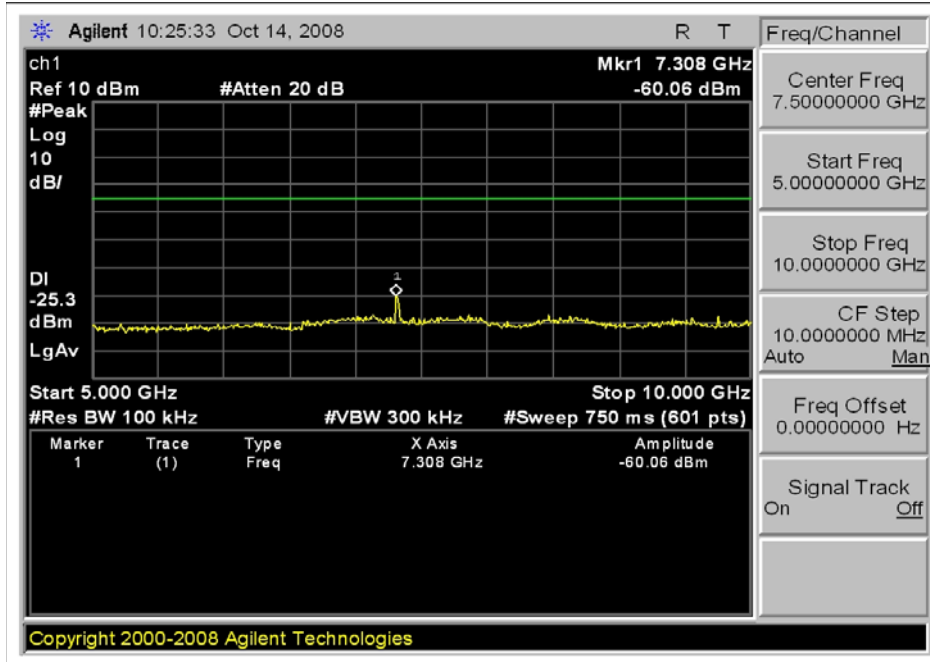


FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA B 1 GHz - 5 GHz

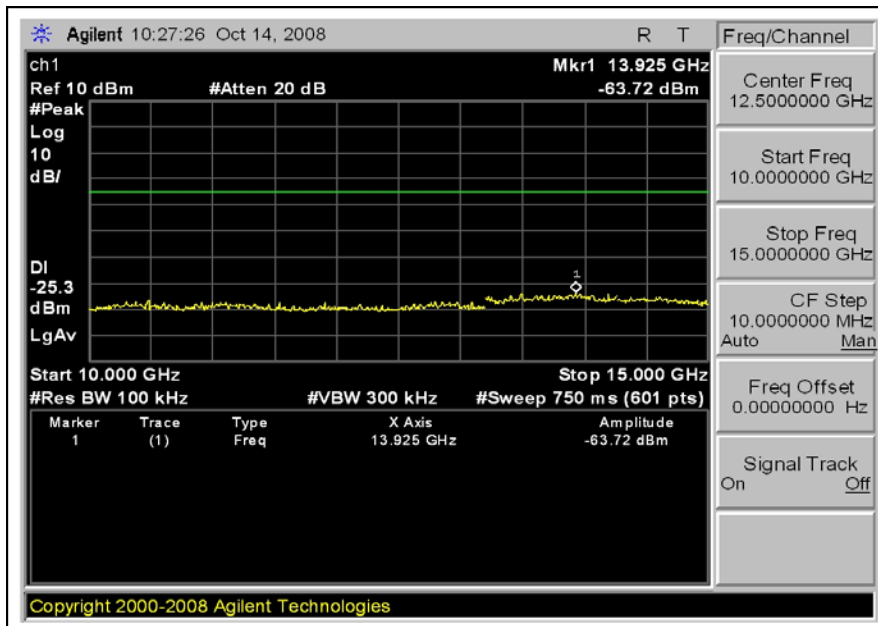




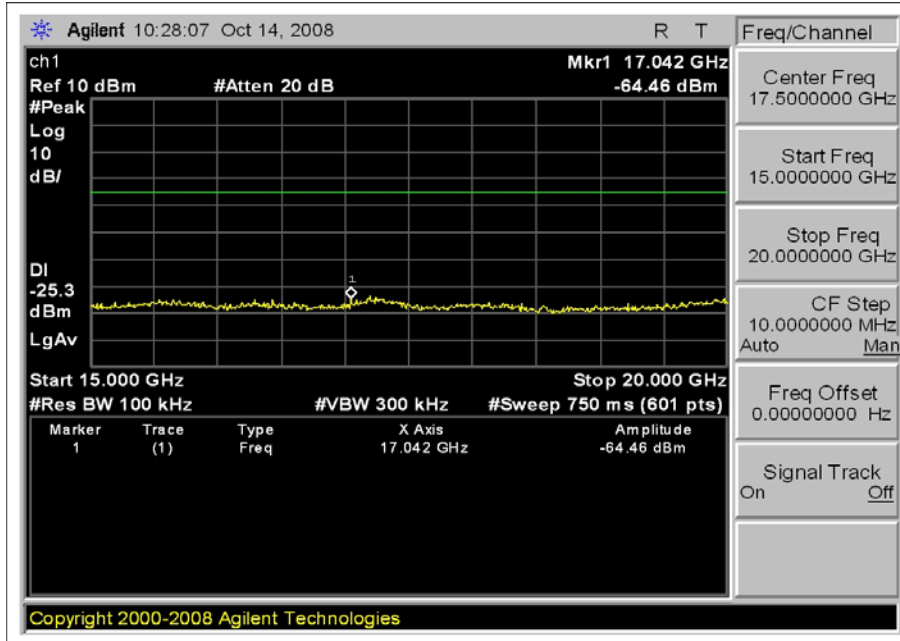
**FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA B 5 GHz - 10 GHz**



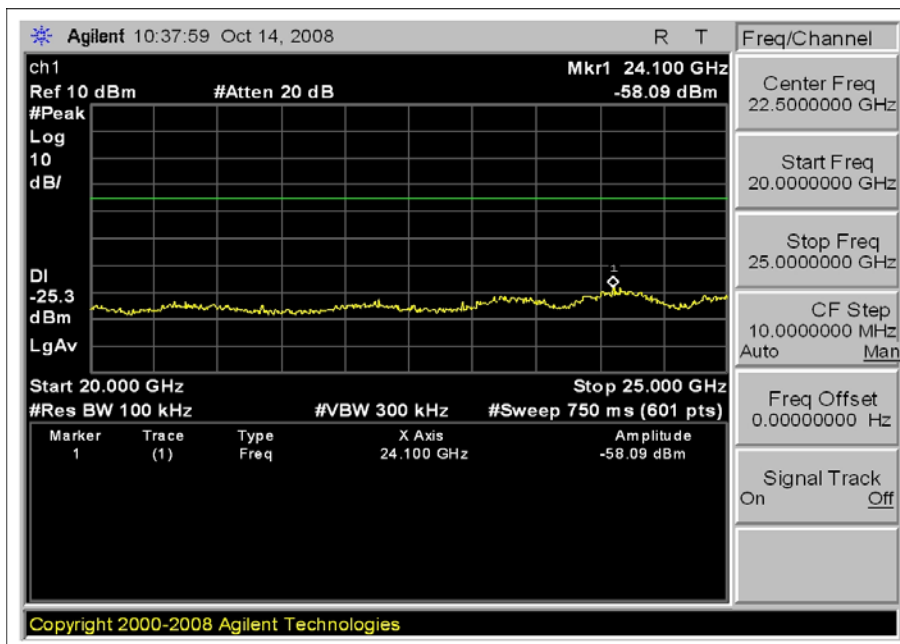
**FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA B 10 GHz - 15 GHz**



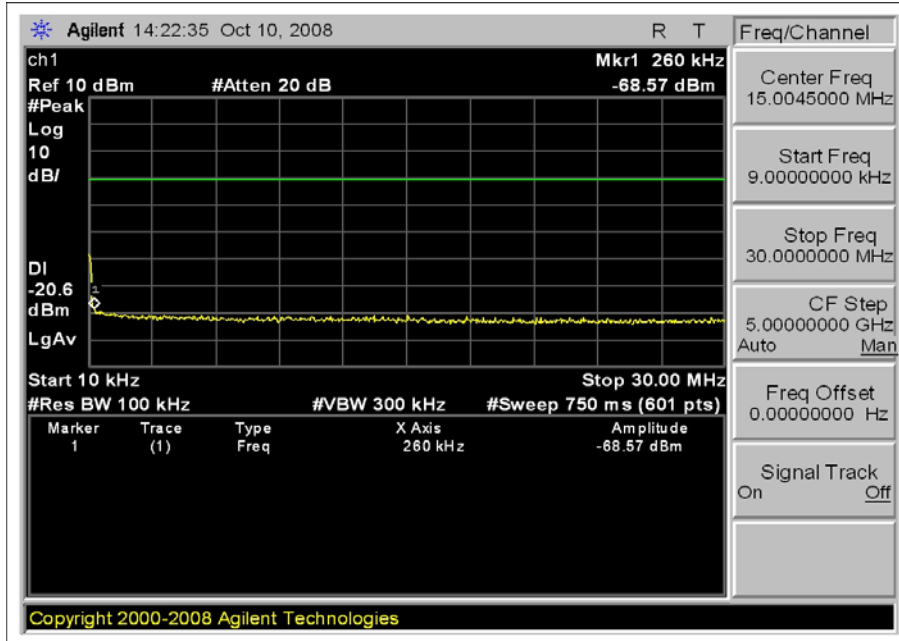
**FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA B 15 GHz - 20 GHz**



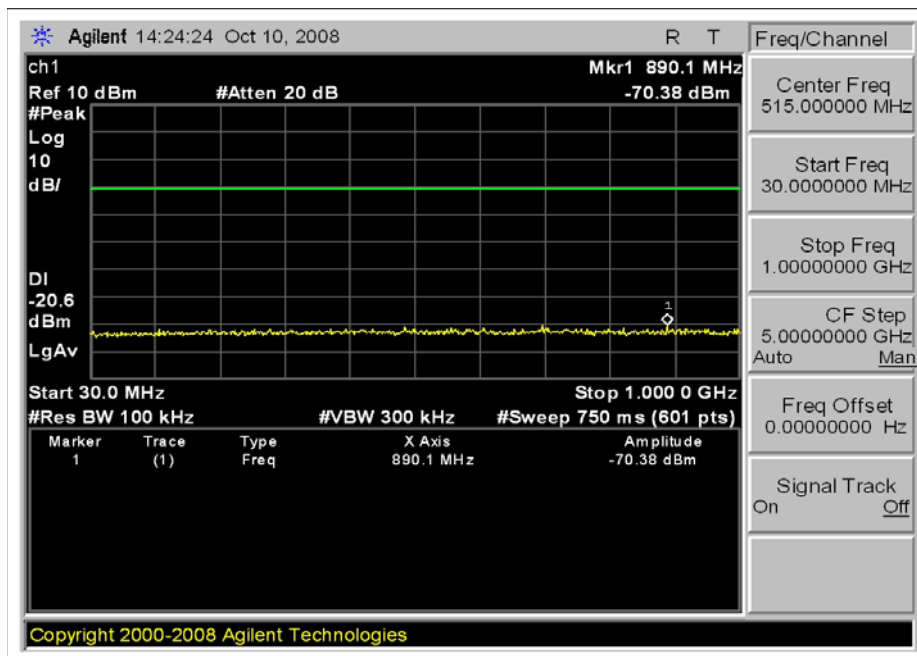
**FCC 15.247(d) 802.11b CHANNEL 6 ANTENNA B 20 GHz - 25 GHz**



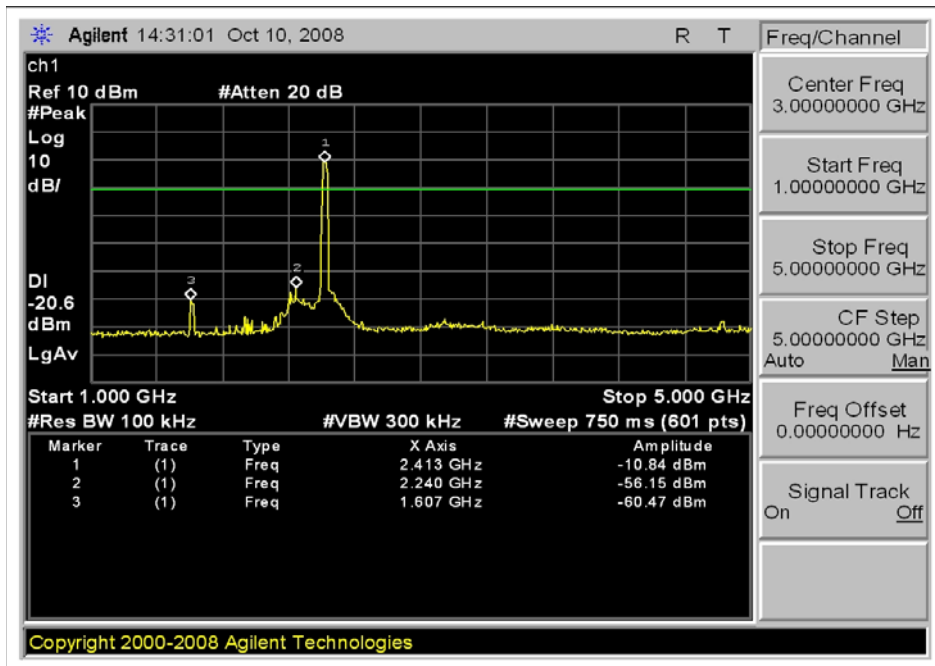
**FCC 15.247(d) 802.11g CHANNEL 1 ANTENNA A 9 kHz - 30 MHz**



**FCC 15.247(d) 802.11g CHANNEL 1 ANTENNA A 30 MHz - 1 GHz**



FCC 15.247(d) 802.11g CHANNEL 1 ANTENNA A 1 GHz - 5 GHz



FCC 15.247(d) 802.11g CHANNEL 1 ANTENNA A 5 GHz -10 GHz

