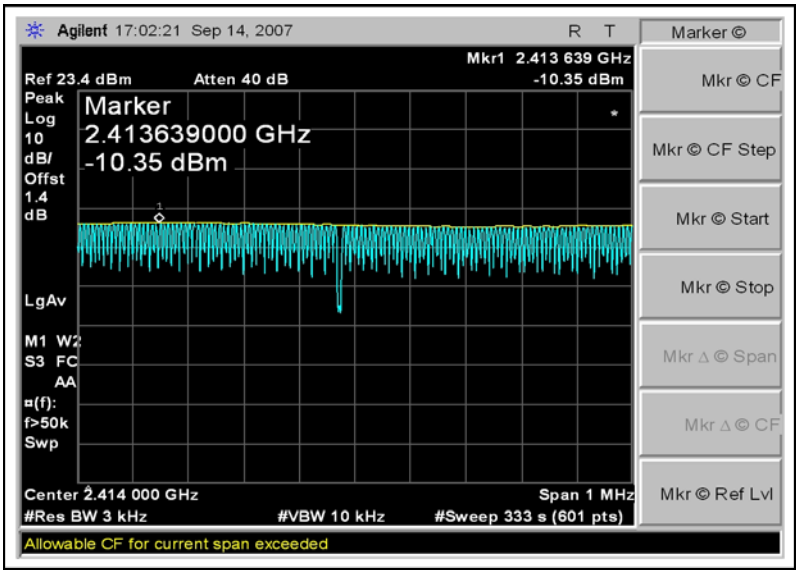
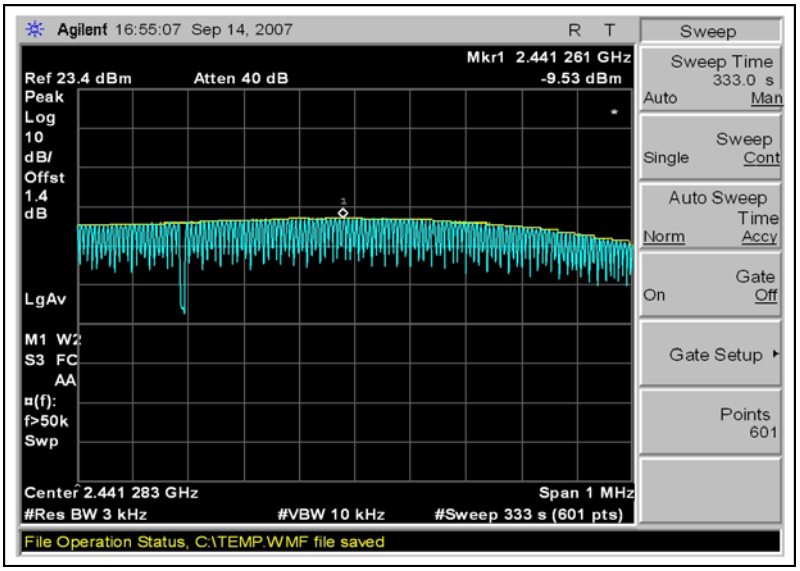
Test Plots

FCC 15.247(e) POWER SPECTRAL DENSITY – CHANNEL 1



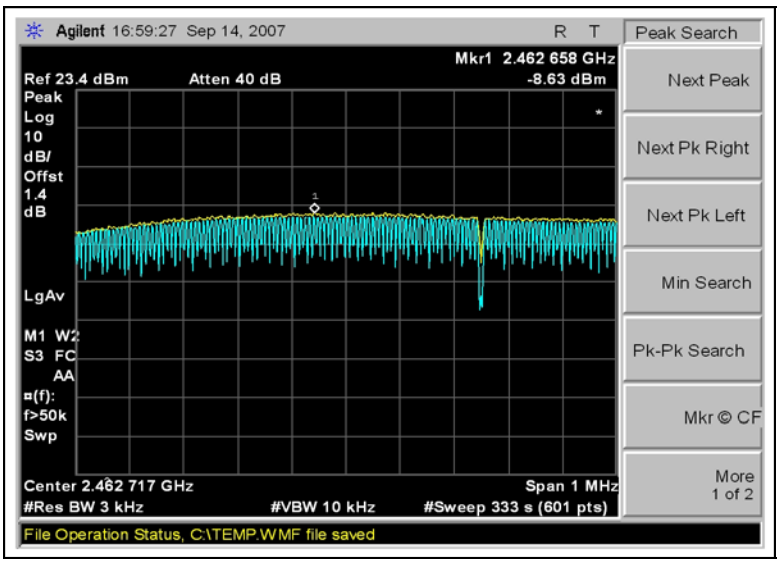
802.11b

FCC 15.247(e) POWER SPECTRAL DENSITY – CHANNEL 7



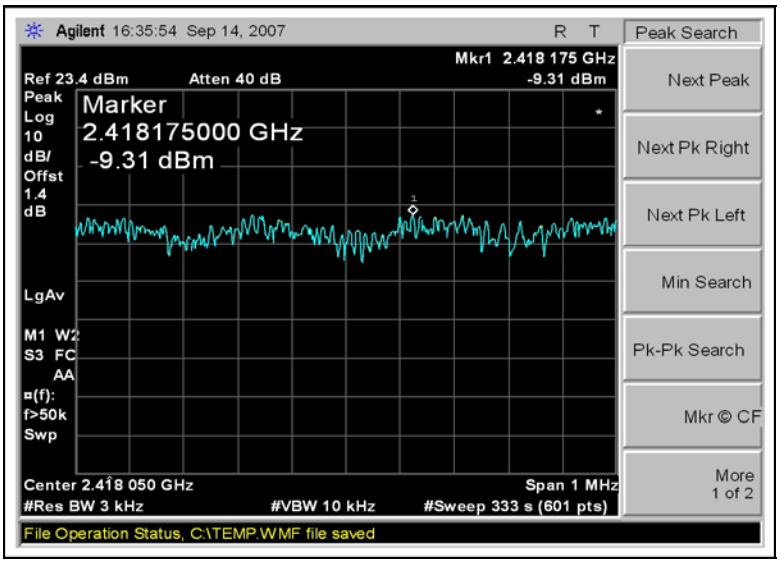
802.11b

FCC 15.247(e) POWER SPECTRAL DENSITY – CHANNEL 11



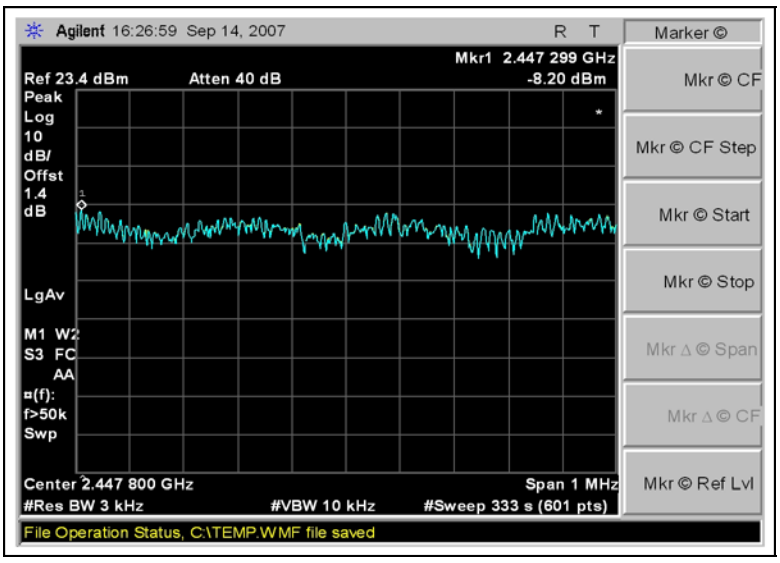
802.11b

FCC 15.247(e) POWER SPECTRAL DENSITY – CHANNEL 1



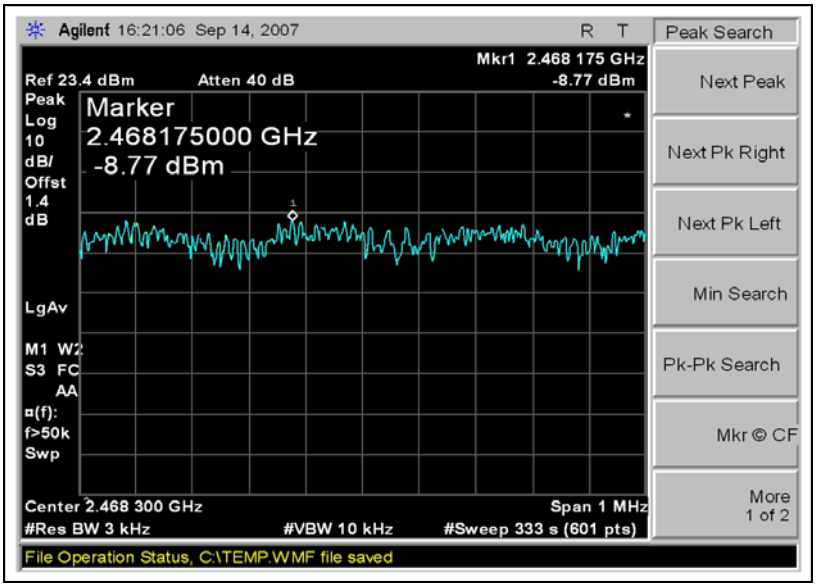
802.11g

FCC 15.247(e) POWER SPECTRAL DENSITY – CHANNEL 7



802.11g

FCC 15.247(e) POWER SPECTRAL DENSITY – CHANNEL 11



802.11g

BAND EDGE

Test Equipment

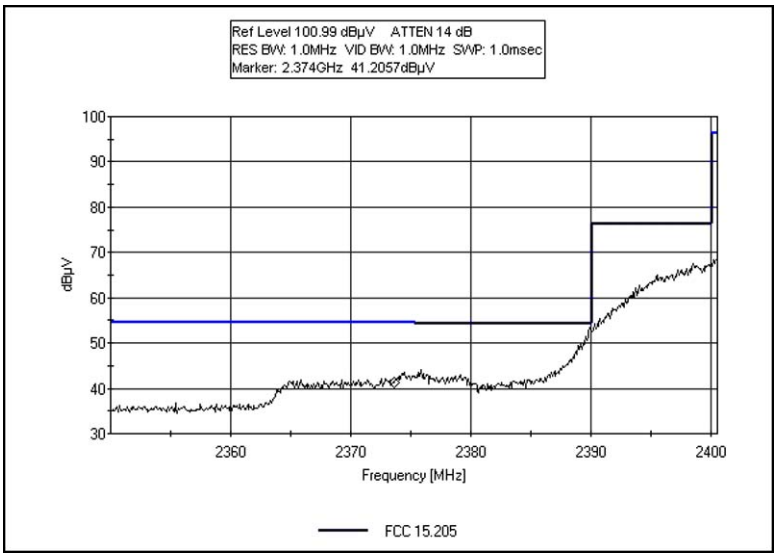
Function	S/N	Calibration Date	Cal Due Date	Asset #
Antenna cable	Cable#17	09/19/2006	09/19/2008	P04382
Horn Antenna	9603-4683	06/29/2006	06/29/2008	01646
Microwave Pre-amp	3123A00282	06/05/2007	06/5/2009	00787
Cable Big Blue	12237/4A	11/28/2005	11/28/2007	P05421
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Antenna Cable	Hi Freq	09/18/2006	09/18/2008	P05563

Test Setup Photos

Test Conditions: The EUT is on the table and all the probes and cables are connected to the unit. Measurements are made by direct connect with the Serial cable connected to the laptop computer, which is used to change the TX characteristics.

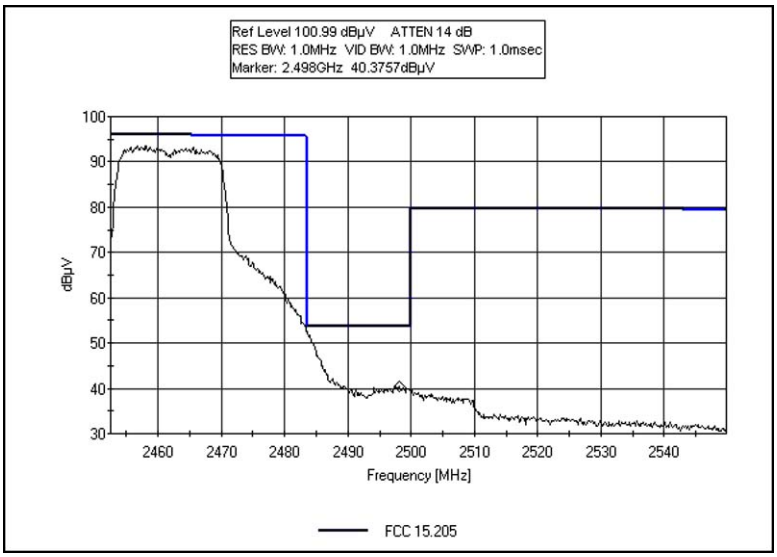
Test Plots

BAND EDGE - CHANNEL 1 at 6 mb



802.11g

BAND EDGE - CHANNEL 11 at 6 mb



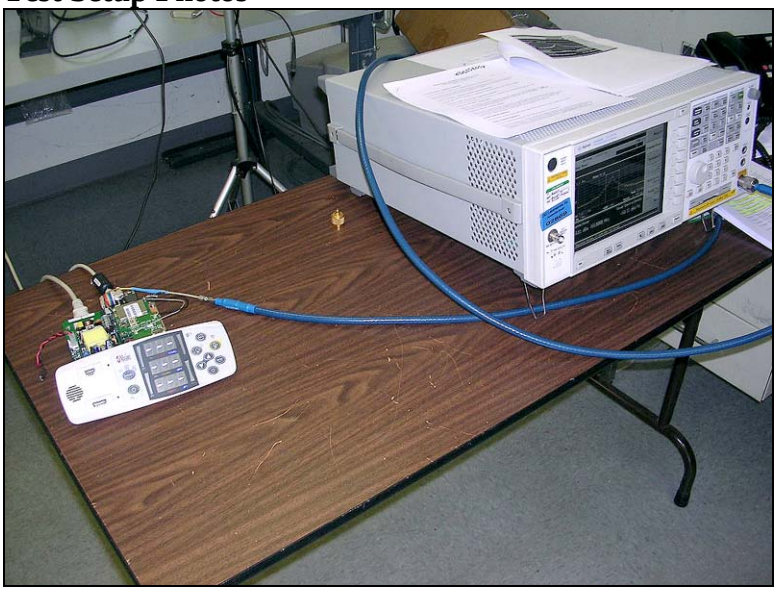
802.11g

FCC 15.247 OCCUPIED BANDWIDTH

Test Equipment

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/04/2007	01/04/2009	02672
Cable Huber & Suhner	12237/4A	11/28/2005	11/28/2007	P05421
Programmable Power Source	01695/01696	05/15/07	05/15/09	250 / 245

Test Setup Photos



Test Conditions: The EUT is on the table and all the probes and cables are connected to the unit. Measurements are made by direct connect with the Serial cable connected to the laptop computer, which is used to change the TX characteristics. There is a 1.4 dB offset to correct for the cable.

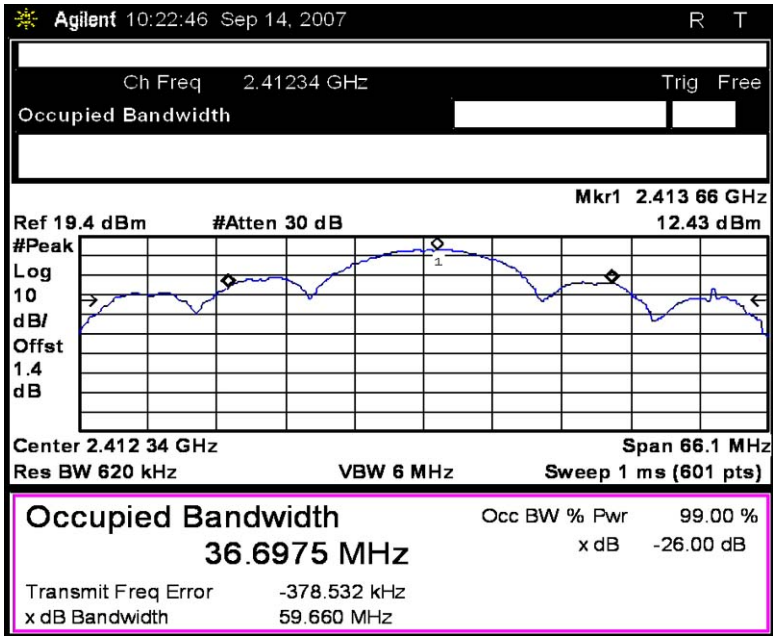
Summary Table

Channel	MBit	Mode	Occupied Bandwidth MHz
1	1	802.11b	36.69
7	1	802.11b	35.22
11	1	802.11b	34.65
1	6	802.11g	46.20
7	6	802.11g	44.18
11	6	802.11g	42.89

The occupied bandwidth data was used in order to derive the correct the power measurements reading.

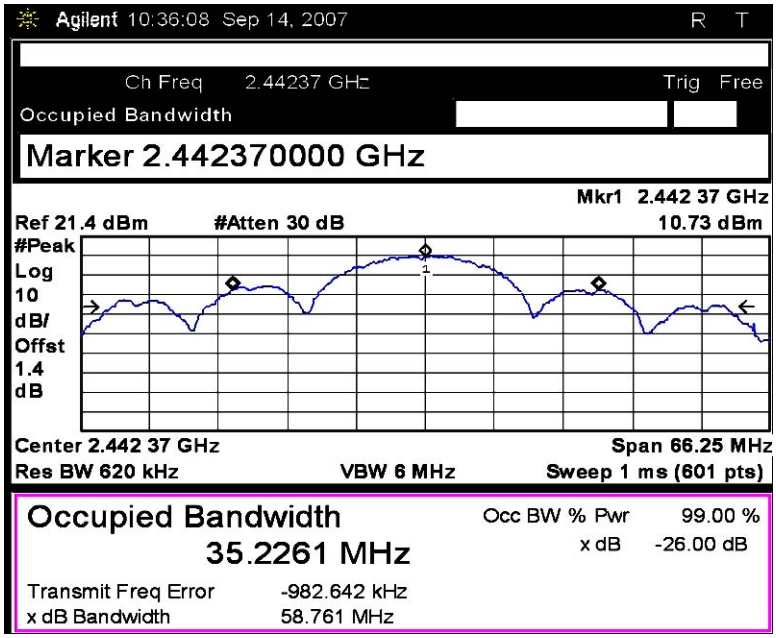
Test Plots

FCC 15.247 OCCUPIED BANDWIDTH - CHANNEL 1 - 1 Mbit



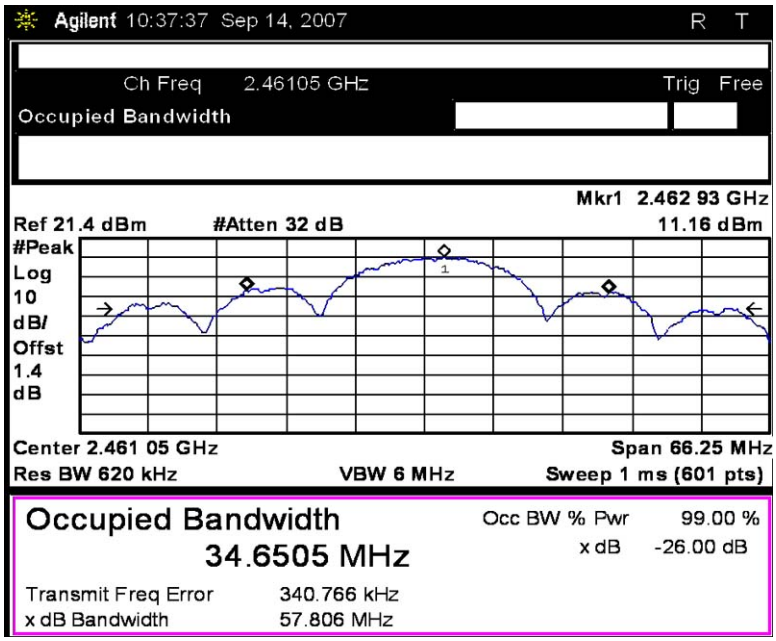
802.11b

FCC 15.247 OCCUPIED BANDWIDTH - CHANNEL 7 - 1 MBit



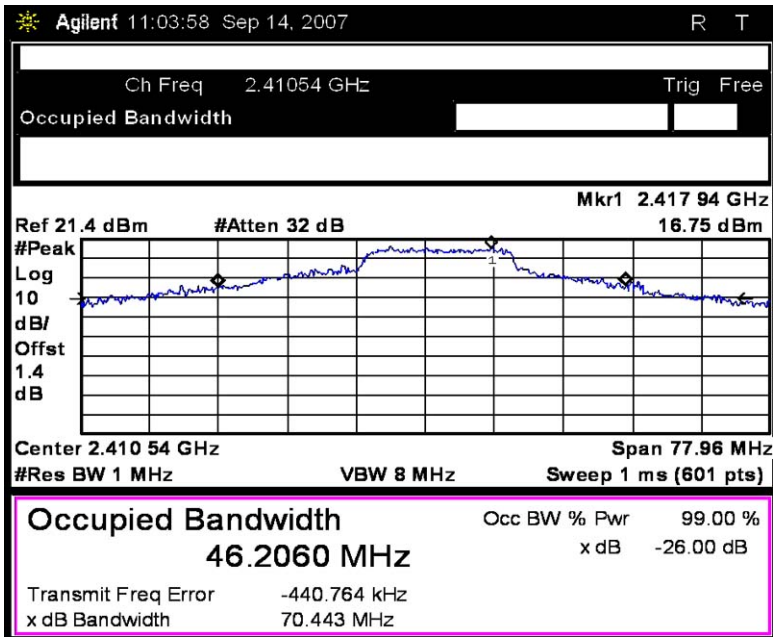
802.11b

FCC 15.247 OCCUPIED BANDWIDTH - CHANNEL 11 - 1 MBit



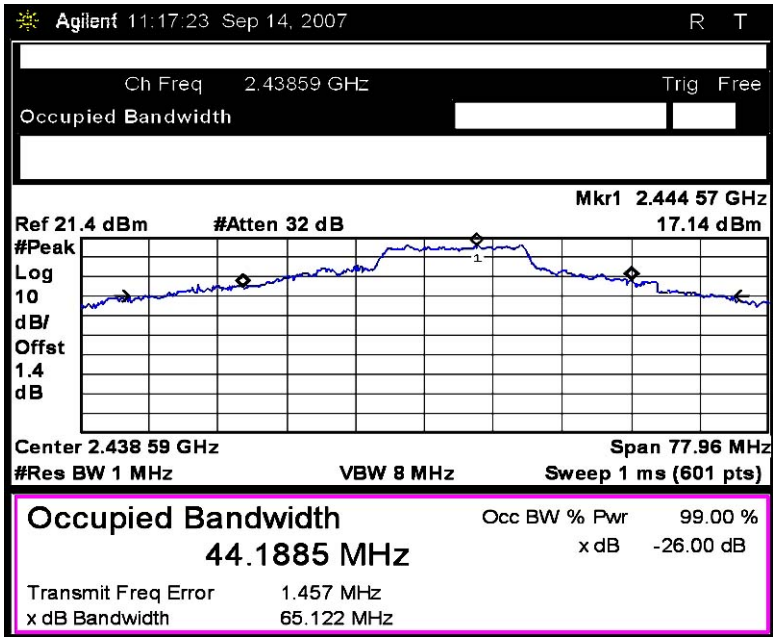
802.11b

FCC 15.247 OCCUPIED BANDWIDTH - CHANNEL 1 - 6 MBit



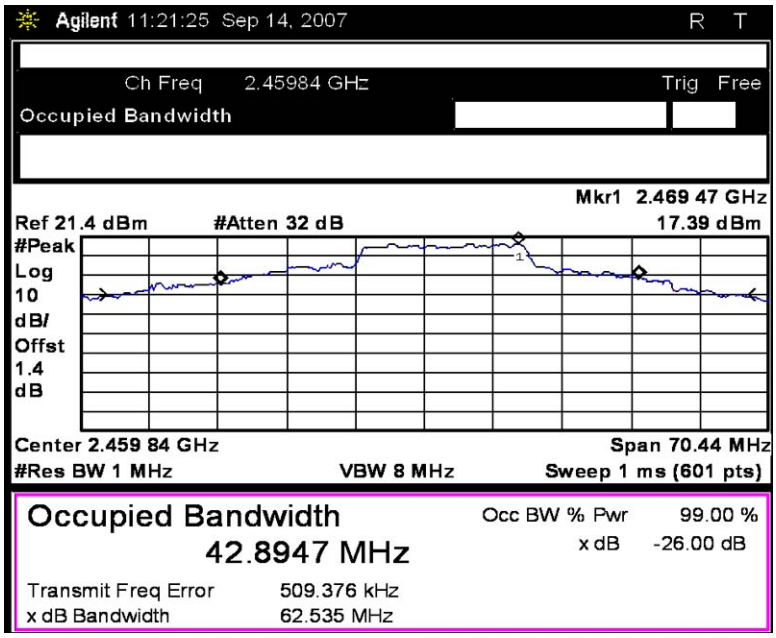
802.11g

FCC 15.247 OCCUPIED BANDWIDTH - CHANNEL 7 - 6 MBit



802.11g

FCC 15.247 OCCUPIED BANDWIDTH - CHANNEL 11 - 6 MBit



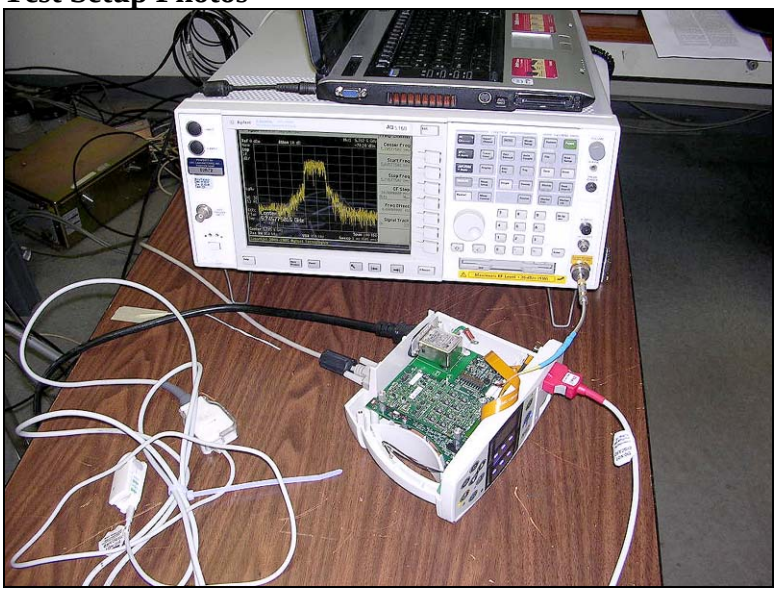
802.11g

FCC 15.407(a) OCCUPIED BANDWIDTH

Test Equipment

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Attenuator, 20 dB Pad	01432	09/13/2007	09/13/2009	P01392

Test Setup Photos



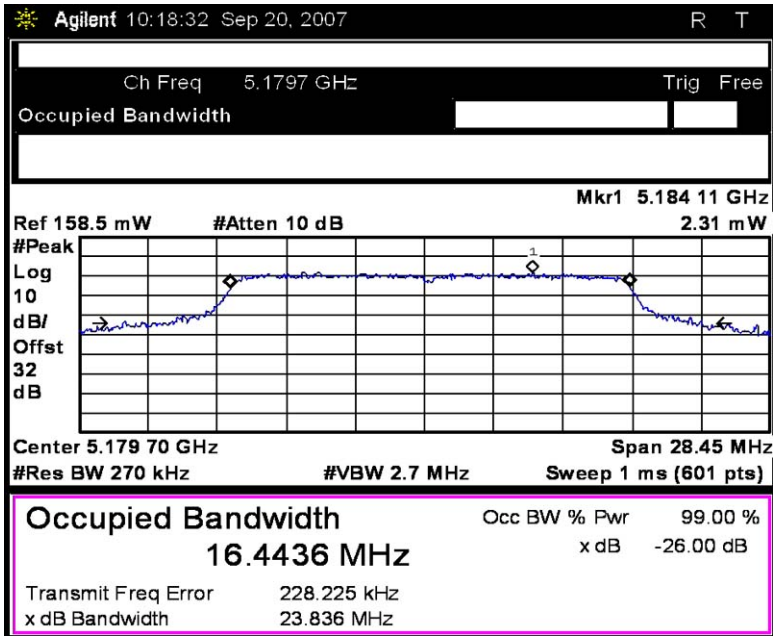
Test Conditions: The EUT is on the table and all the probes and cables are connected to the unit. Measurements are made by direct connect with the Serial cable connected to the laptop computer, which is used to change the TX characteristics. The 32db offset is 20 db for the attenuator, 2 db for the antenna gain. The other 10 db is the bandwidth integration.

Summary Table

Channel	MBit	Mode	Occupied Bandwidth MHz
36	6	802.11a	16.44
44	6	802.11a	16.48
48	6	802.11a	16.42
149	6	802.11a	16.48
157	6	802.11a	16.35
161	6	802.11a	16.30

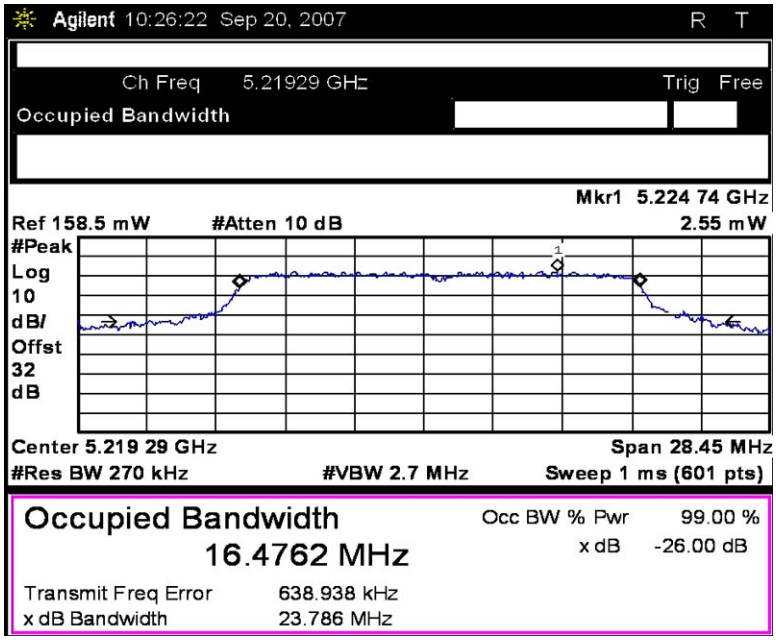
Test Plots

FCC 15.407 OCCUPIED BANDWIDTH - CHANNEL 36 - 6 MBit



802.11A

FCC 15.407 OCCUPIED BANDWIDTH - CHANNEL 44 - 6 MBit



802.11A