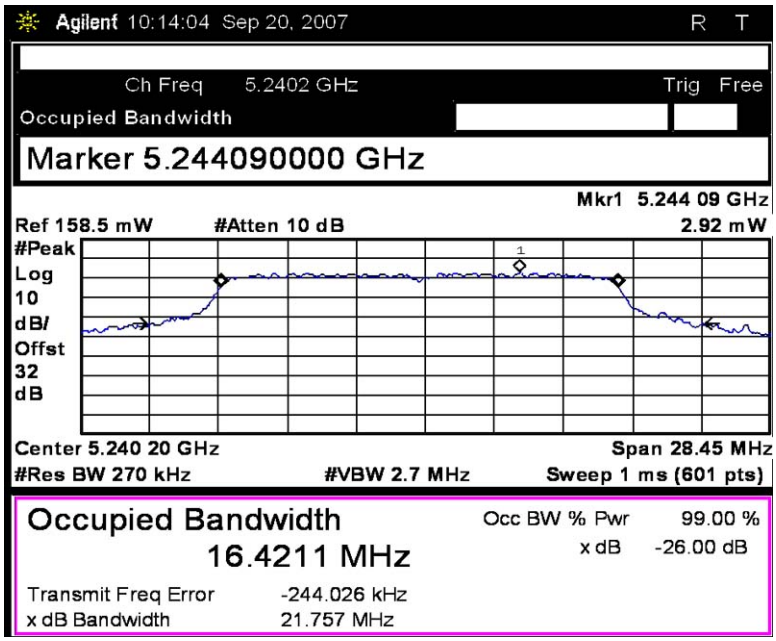
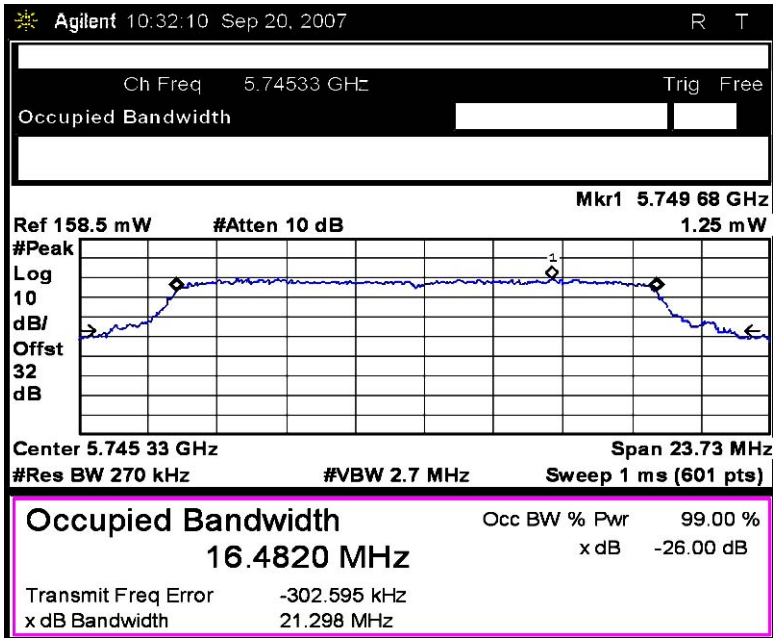
FCC 15.407 OCCUPIED BANDWIDTH - CHANNEL 48 - 6 MBit



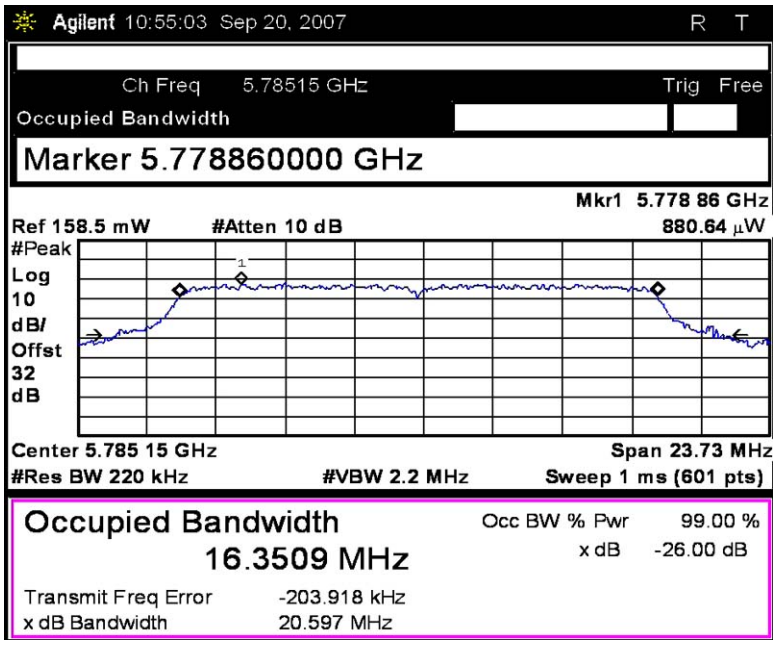
802.11A

FCC 15.407 OCCUPIED BANDWIDTH - CHANNEL 149 - 6 MBit



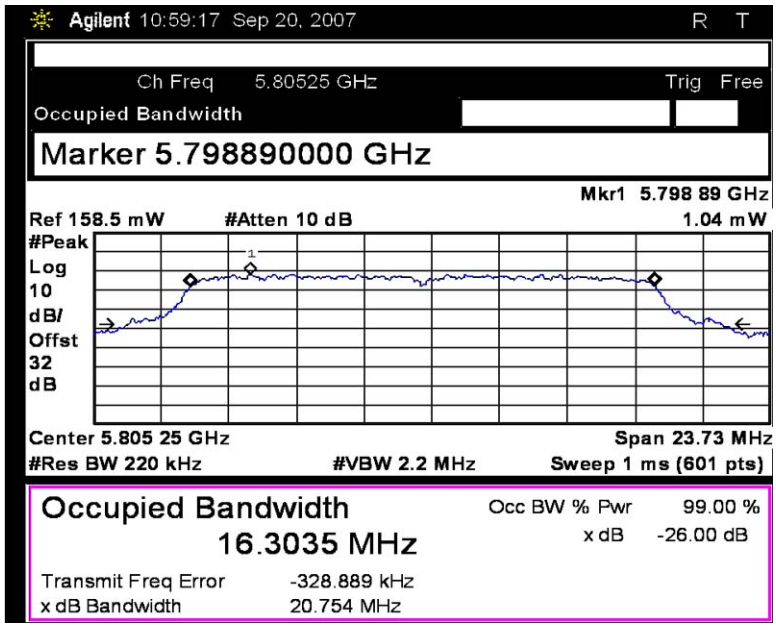
802.11A

FCC 15.407 OCCUPIED BANDWIDTH - CHANNEL 157 - 6 MBit



802.11A

FCC 15.407 OCCUPIED BANDWIDTH - CHANNEL 161 - 6 MBit



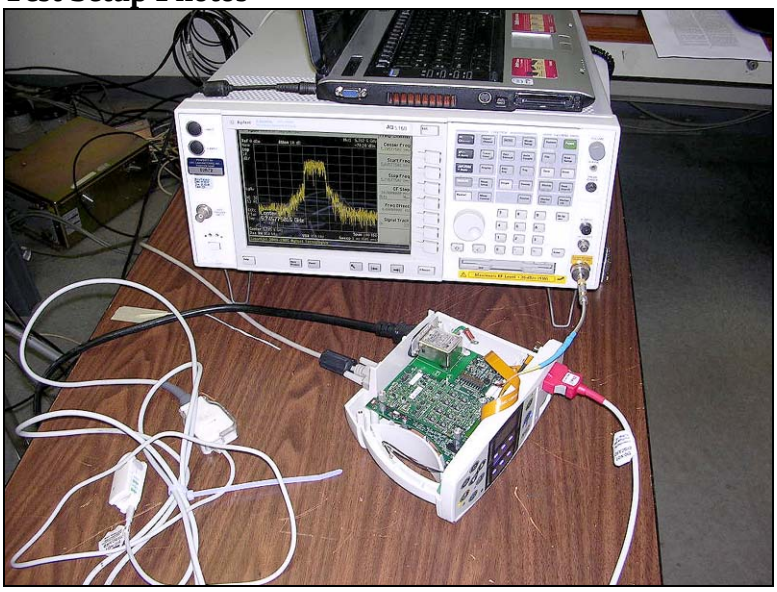
802.11A

FCC 15.407(a)(1) POWER LIMITS

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

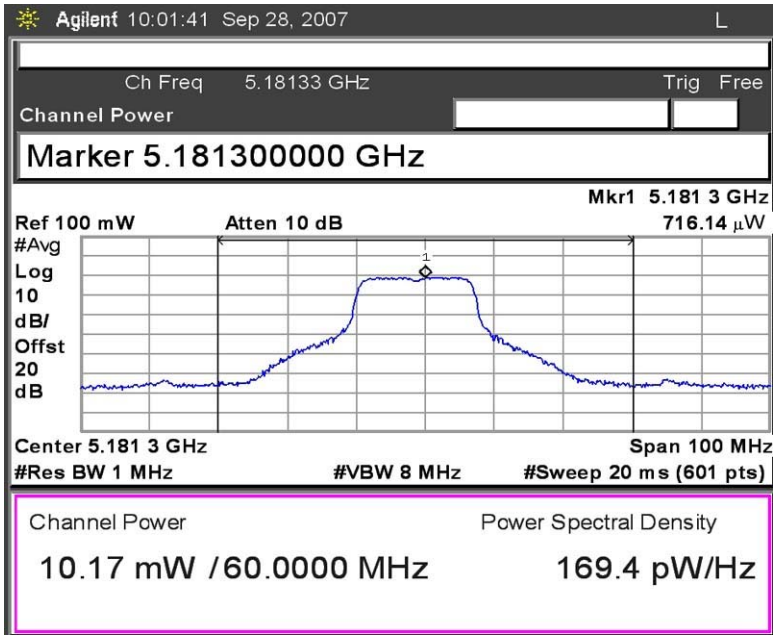
Test Setup Photos



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 3 channels in the 5.2 GHz range were tested against the 50mW limit. The 3 channels in the 5.8 GHz range were tested against the 1 W limit.

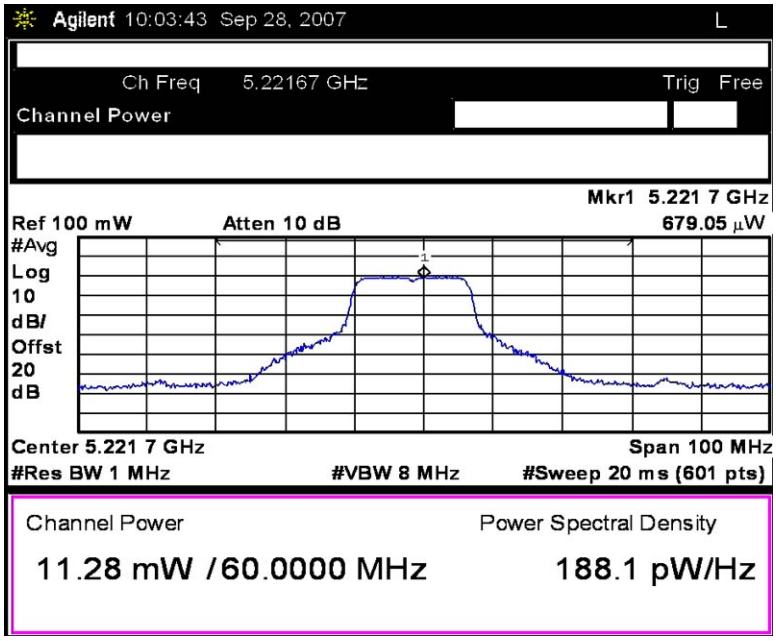
Test Plots

FCC 15.407(a)(1) POWER LIMITS – CHANNEL 36 – 6 Mbits



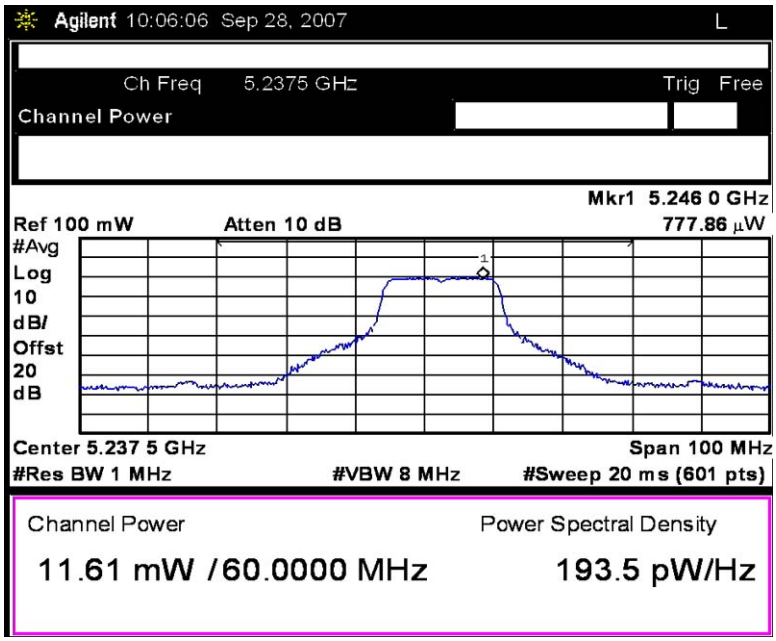
802.11a

FCC 15.407(a)(1) POWER LIMITS – CHANNEL 44 – 6 Mbits



802.11a

FCC 15.407(a)(1) POWER LIMITS – CHANNEL 48 – 6 Mbits



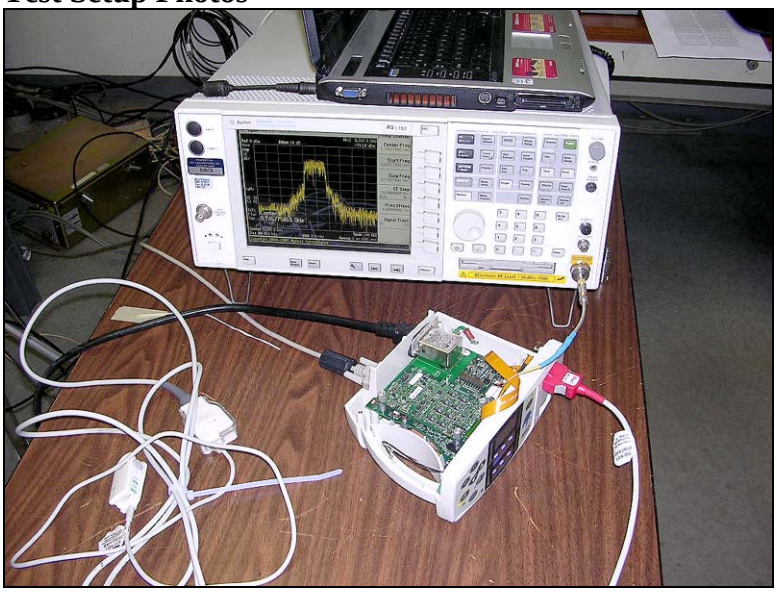
802.11a

FCC 15.407(a)(3) POWER LIMITS

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

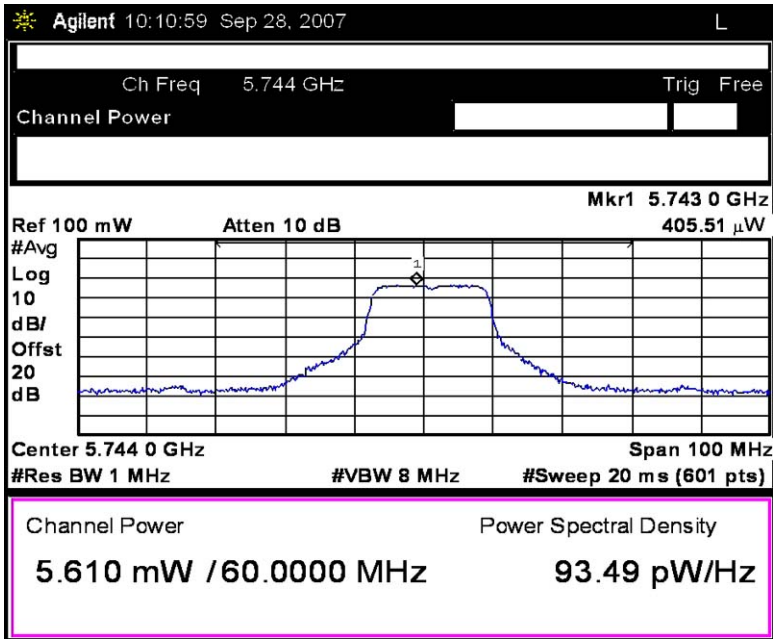
Test Setup Photos



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.

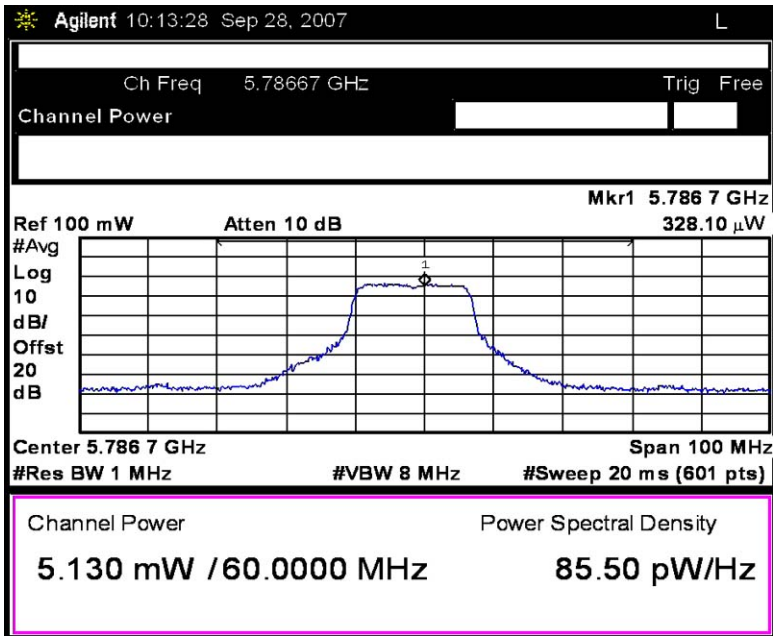
Test Plots

FCC 15.407(a)(3) POWER LIMITS – CHANNEL 149 – 6 Mbits



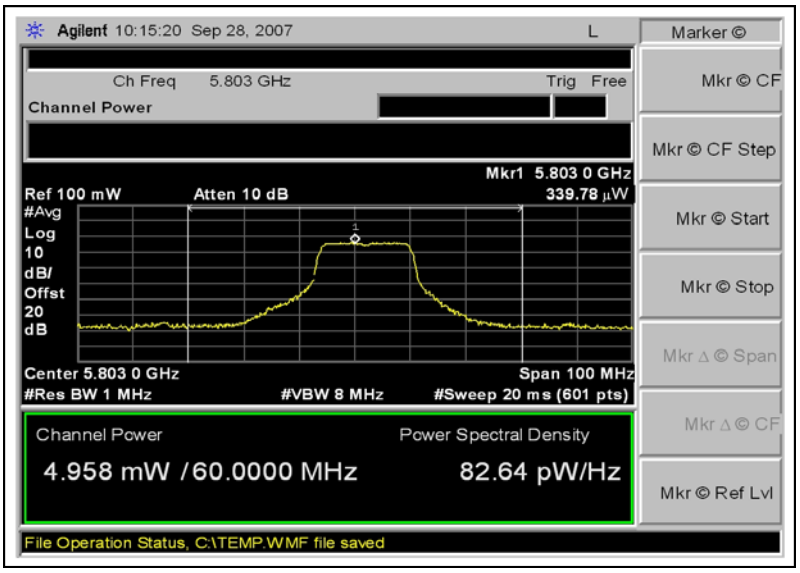
802.11a

FCC 15.407(a)(3) POWER LIMITS – CHANNEL 157 – 6 Mbits



802.11a

FCC 15.407(a)(3) POWER LIMITS – CHANNEL 161 – 6 Mbits



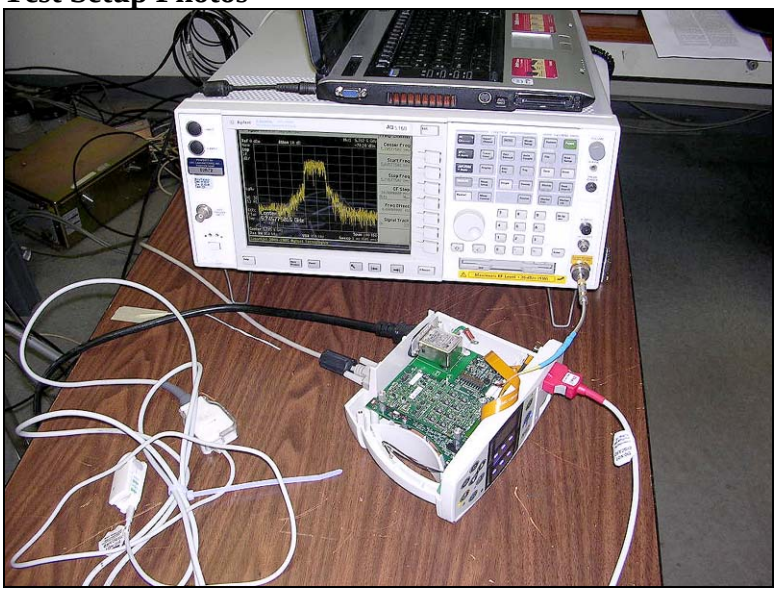
802.11a

FCC 15.407(a)(5) PEAK POWER SPECTRAL DENSITY

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



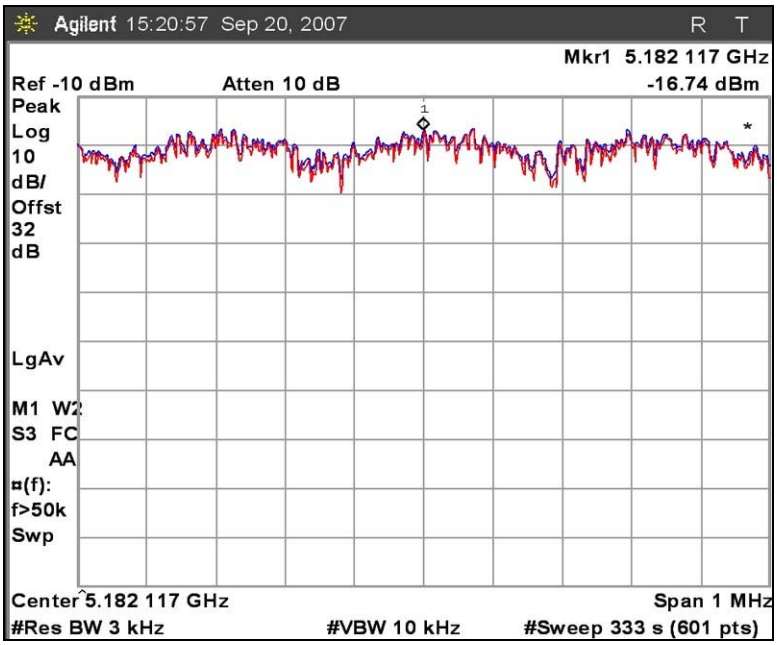
Test Conditions: The EUT is on the table and all the probes and cables are connected to the unit. Measurements are made by direct connect with the Serial cable connected to the laptop computer, which is used to change the TX characteristics. The 32db offset is 20 db for the attenuator, 2 db for the antenna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

Summary Table

Center Frequency GHz	Mode	Peak Power Spectral Density	Limit
5.182	802.11a	-16.74 dBm	+4 dBm
5.128	802.11a	-15.95 dBm	+4 dBm
5.242	802.11a	-16.16 dBm	+4 dBm
5.742	802.11a	-18.85 dBm	+17 dBm
5.785	802.11a	-19.81 dBm	+17 dBm
5.805	802.11a	-19.65 dBm	+17 dBm

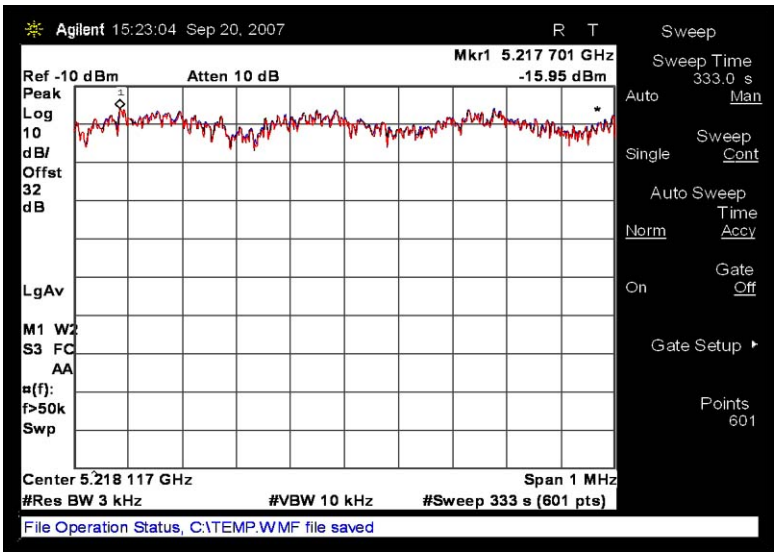
Test Plots

FCC 15.407(a)(5) PEAK POWER SPECTRAL DENSITY – CHANNEL 36



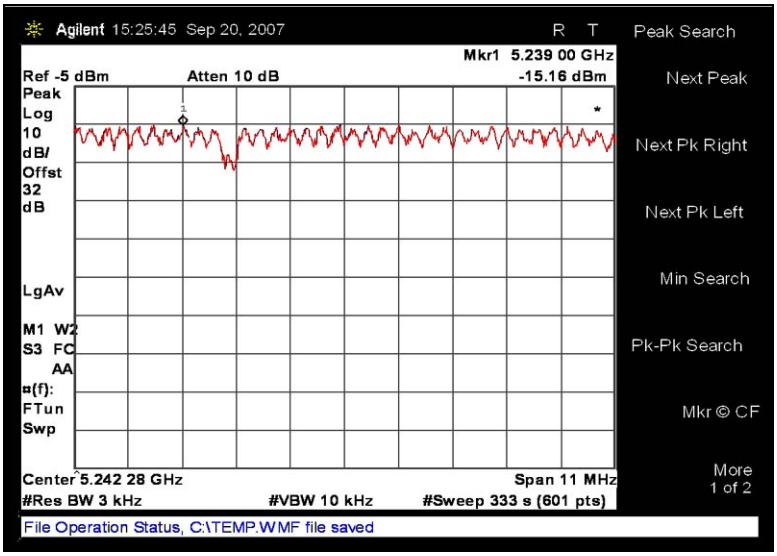
802.11a

FCC 15.407(a)(5) PEAK POWER SPECTRAL DENSITY – CHANNEL 44



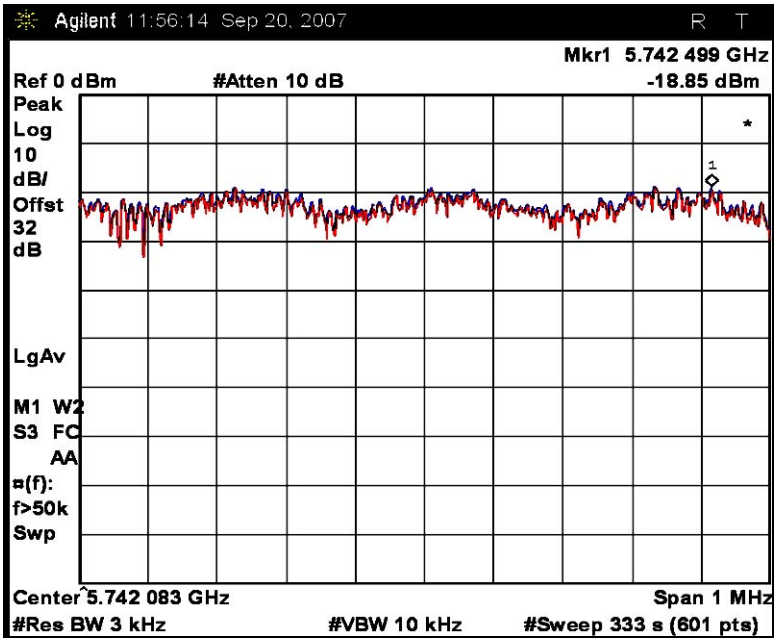
802.11a

FCC 15.407(a)(5) PEAK POWER SPECTRAL DENSITY – CHANNEL 48



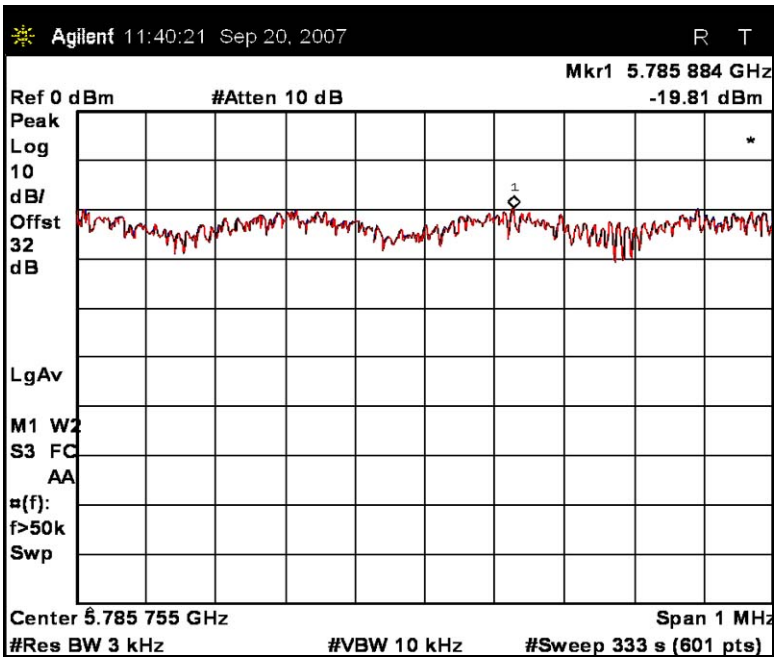
802.11a

FCC 15.407(a)(5) PEAK POWER SPECTRAL DENSITY – CHANNEL 149



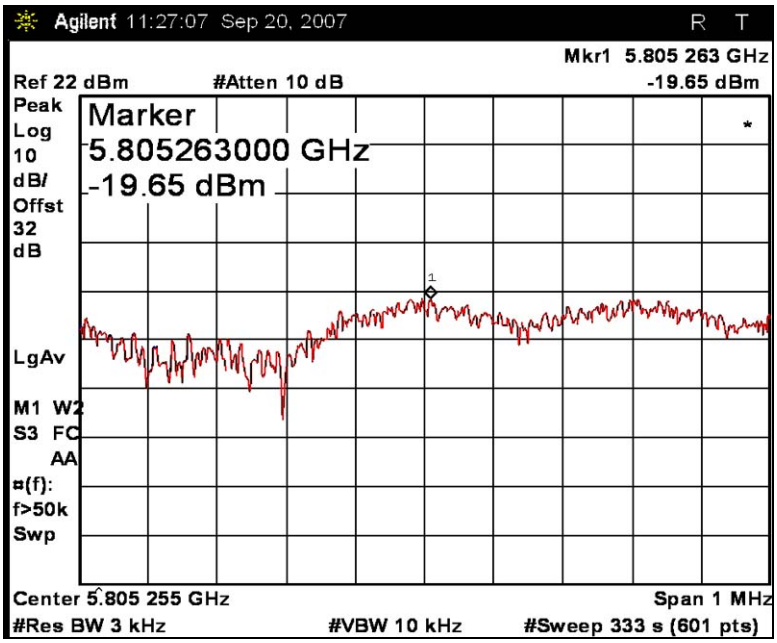
802.11a

FCC 15.407(a)(5) PEAK POWER SPECTRAL DENSITY – CHANNEL 157



802.11a

FCC 15.407(a)(5) PEAK POWER SPECTRAL DENSITY – CHANNEL 161



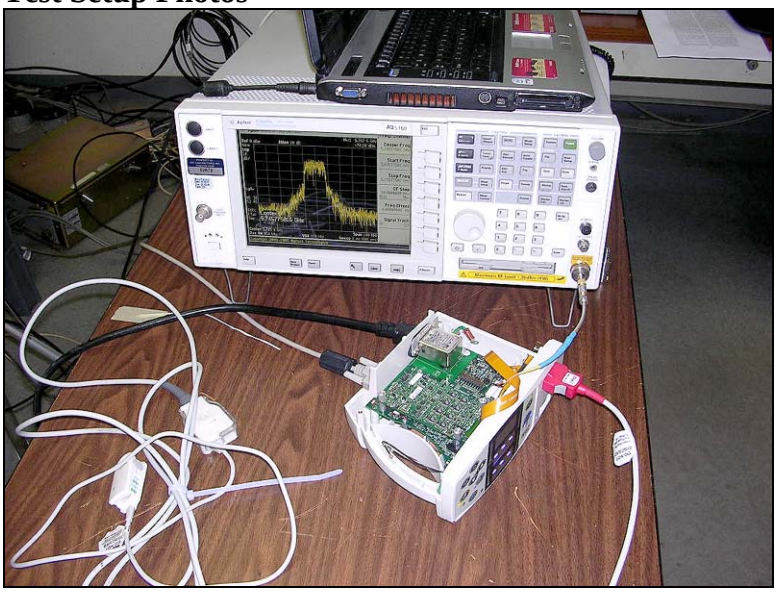
802.11a

FCC 15.407(a)(6) PEAK EXCURSION

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

Center Frequency GHz	Channel	Mode	Peak Excursion	Limit
5.180	36	802.11a	9.753 dB	13 dB
5.220	44	802.11a	9.896 dB	13 dB
5.240	48	802.11a	9.043 dB	13 dB
5.746	149	802.11a	10.012 dB	13 dB
5.785	157	802.11a	9.646 dB	13 dB
5.804	161	802.11a	9.181 dB	13 dB