



360 Herndon Parkway  
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**7 FCC PART 15 §15.247(A)(2) MODULATED BANDWIDTH**

The minimum 6 dB bandwidth per FCC 15.247(a)(2) was measured using a 50 ohm spectrum analyzer with the resolution bandwidth set at 100 kHz, and the video bandwidth set at 300 kHz. The Minimum 6 dB modulated bandwidths are the following:

**TABLE 7-1: FCC PART 15 §15.247(A)(2) MODULATED BANDWIDTH**

Channel	6(dB) Bandwidth (MHz)
1	10.3
6	10.3
11	10.3

The 6dB bandwidth is listed in figures part 26.

TEST PERSONNEL:

RACHID SEHB  
 TEST TECHNICIAN/ENGINEER

SIGNATURE

JULY 30, 2001  
 DATE OF TEST

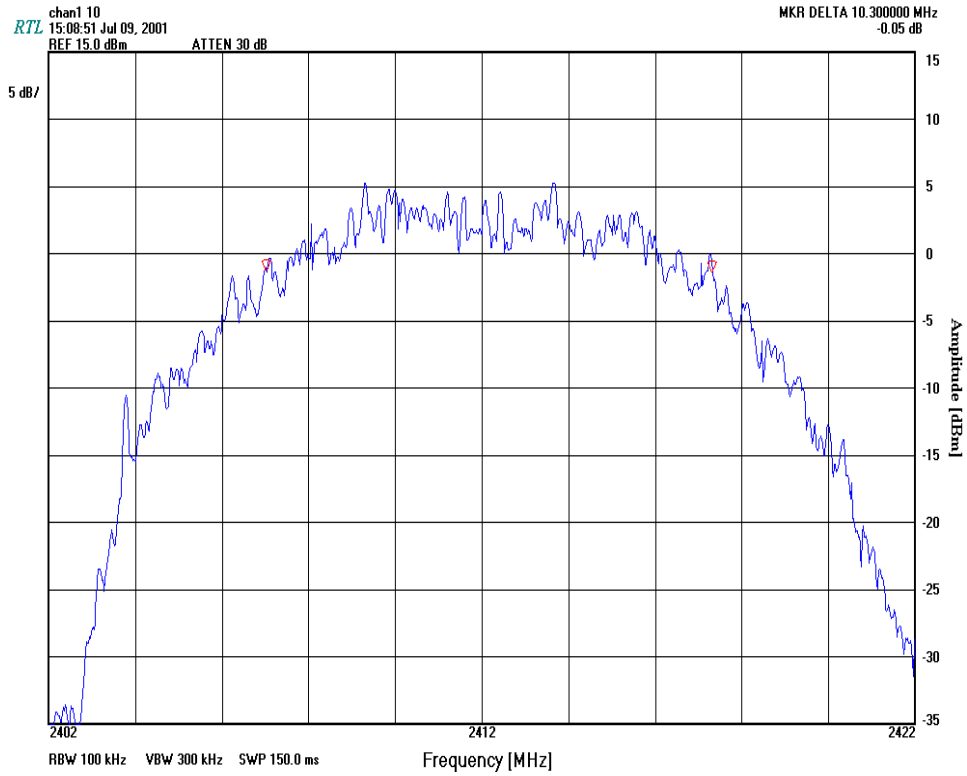
**TABLE 7-2: TEST EQUIPMENT USED FOR TESTING (MODULATED BANDWIDTH)**

RTL Asset #	Manufacturer	Model	Part Type	Serial Number
900931	HP	8566B	Spectrum Analyzer (100Hz – 22 GHz)	3138A07771



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**PLOT 7-1: FCC PART 15 §15.247(A)(2) MODULATED BANDWIDTH: CHANNEL 1**



TEST PERSONNEL:

RACHID SEHB  
TEST TECHNICIAN/ENGINEER

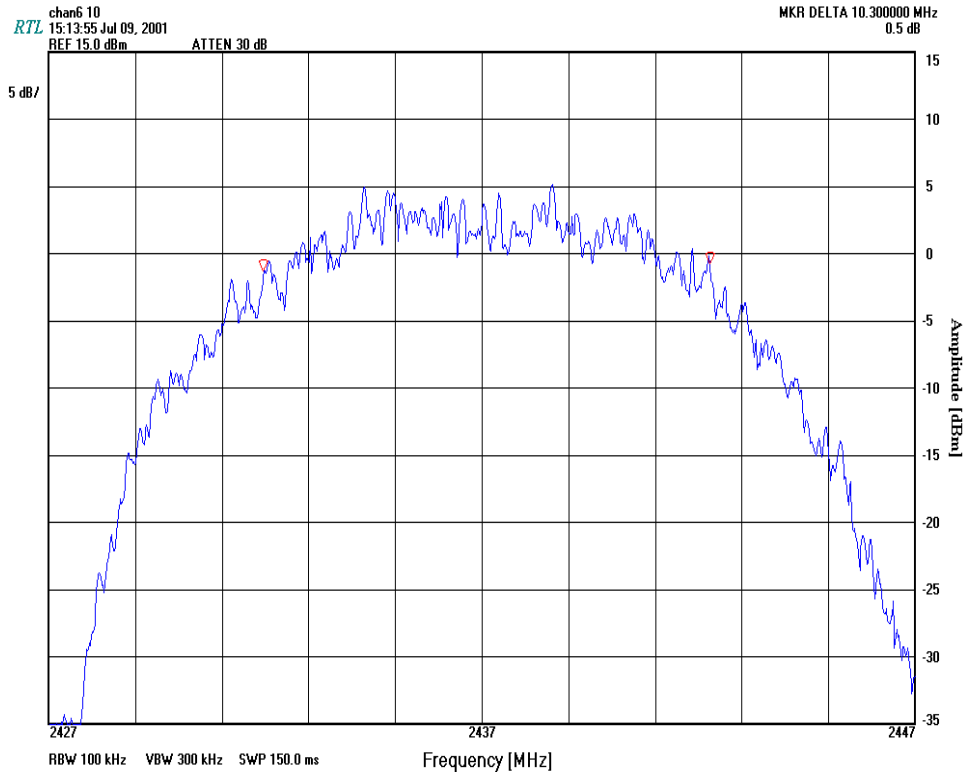
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**PLOT 7-2: FCC PART 15 §15.247(A)(2) MODULATED BANDWIDTH: CHANNEL 6**



TEST PERSONNEL:

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 TEST TECHNICIAN/ENGINEER

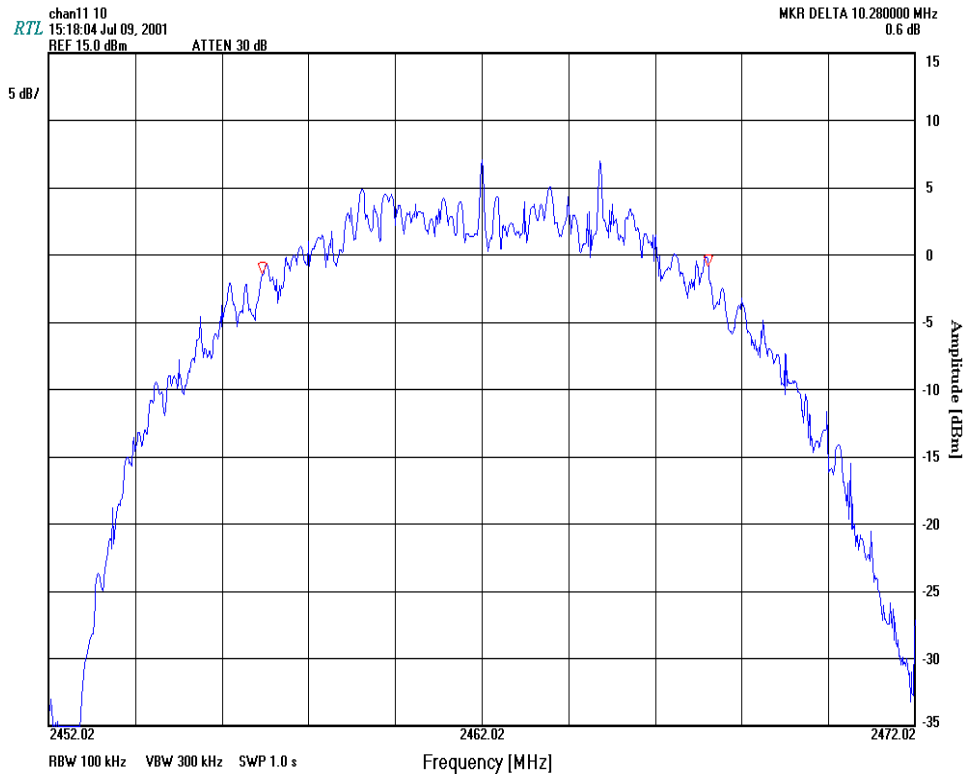
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**PLOT 7-3: FCC PART 15 §15.247(A)(2) MODULATED BANDWIDTH: CHANNEL 11**



TEST PERSONNEL:

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**9 FCC PART 15 §15.247(C) ANTENNA CONDUCTED SPURIOUS EMISSIONS**

Antenna spurious emission per FCC 15.247(c) was measured from the EUT antenna port using a 50 ohm spectrum analyzer with the resolution bandwidth set at 100 kHz, and the video bandwidth set at 300 kHz. The modulated carrier was identified at 2.410GHz for Channel 1, 2.437GHz for Channel 6 and 2.463GHz for Channel 11. No other harmonics or spurs were found within 20 dB of the carrier level, and from 9kHz to the carriers 10<sup>th</sup> harmonic. See antenna conducted spurious noise table. Channels 1, 6, and 11 were investigated and tested.

**TABLE 9-1: FCC PART 15 §15.247(C) ANTENNA CONDUCTED SPURIOUS EMISSIONS: CHANNEL 1**

Frequency (MHz)	Spurious level (dBm)	FCC Margin (dB)
22.1	-44.1	-28.4
33.1	-54.1	-38.4
349.5	-59.2	-43.5
432.4	-47.1	-31.4
704.0	-46.1	-30.4
886.0	-43.1	-27.4
1295.0	-45.9	-30.2
1868.0	-54.5	-38.8
48220.0	-56.2	-40.5
72380.0	-58.6	-42.9

TEST PERSONNEL:

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**TABLE 9-2: FCC PART 15 §15.247(C) ANTENNA CONDUCTED SPURIOUS EMISSIONS: CHANNEL 6**

Frequency (GHz)	Spurious level (dBm)	FCC Margin (dB)
350.1	-59.4	-43.7
428.6	-47.2	-31.5
464.0	-47.8	-32.1
704.0	-47.1	-31.4
885.0	-43.4	-27.7
1298.0	-46.5	-30.8
1403.0	-48.9	-33.2
1870.0	-56.0	-40.3
2395.2	-58.0	-42.3
4872.0	-53.0	-37.3
7307.0	-57.7	-42.0

TEST PERSONNEL:

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**TABLE 9-3: FCC PART 15 §15.247(C) ANTENNA CONDUCTED SPURIOUS EMISSIONS: CHANNEL 11**

Frequency (GHz)	Spurious level (dBm)	FCC Margin (dB)
350.1	-59.1	-43.1
436.4	-46.7	-30.7
704.2	-48.2	32.2
885.5	-43.5	-27.5
1305.0	-46.9	-30.9
1432.0	-49.4	-33.4
1662.0	-57.8	-41.8
1860.0	-56.4	-40.4
2370.0	-59.3	-43.3
4923.0	-45.0	-29.0
7368.0	-49.7	-33.7

TEST PERSONNEL:

RACHID SEHB  
 TEST TECHNICIAN/ENGINEER

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JULY 30, 2001  
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**TABLE 9-4: TEST EQUIPMENT USED FOR TESTING (ANTENNA CONDUCTED SPURIOUS EMISSIONS)**

RTL Asset #	Manufacturer	Model	Part Type	Serial Number
900931	HP	8566B	Spectrum Analyzer (100Hz – 22 GHz)	3138A07771



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**11 FCC PART 15 §15.247(D) POWER SPECTRAL DENSITY**

The Power spectral density per FCC 15.247(d) was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set at 3kHz, the video bandwidth set at 3kHz, and the sweep time set at 17 second. The spectral lines were resolved for the modulated carriers at 2.410GHz, 2.437GHz and 2.463GHz respectively. These levels are well below the +8 dBm limit. See power spectral density table and plots.

**TABLE 11-1: FCC PART 15 §15.247(D) POWER SPECTRAL DENSITY**

Channel	Power Spectral Density limit = +8dBm
1	-1.2
6	-1.3
11	-2.2

TEST PERSONNEL:

RACHID SEHB  
 TEST TECHNICIAN/ENGINEER

SIGNATURE

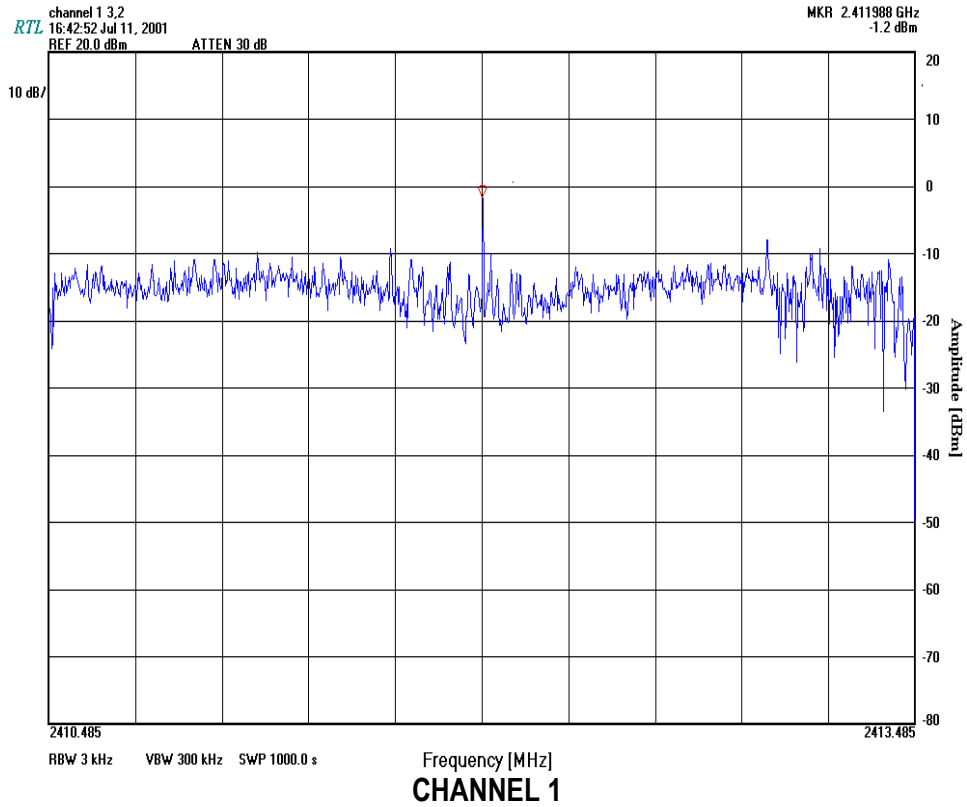
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**12 SPECTRAL DENSITY PLOTS**



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**PLOT 12-1: FCC PART 15 §15.247(D) POWER SPECTRAL DENSITY: CHANNEL 1**



TEST PERSONNEL:

RACHID SEHB  
 TEST TECHNICIAN/ENGINEER

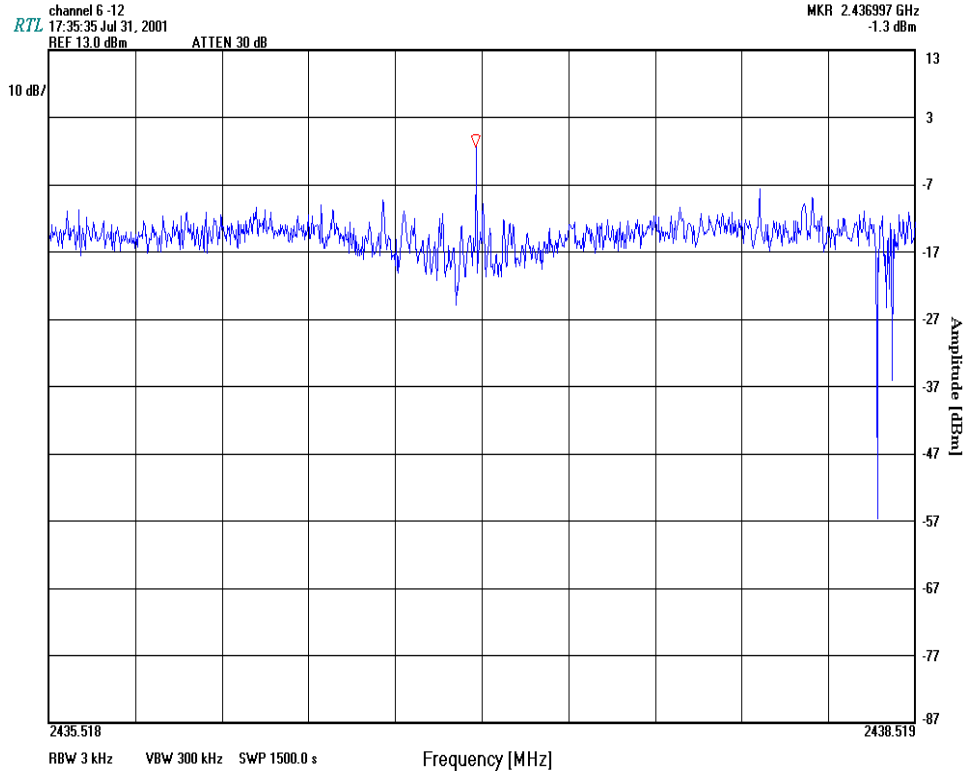
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**PLOT 12-2: FCC PART 15 §15.247(D) POWER SPECTRAL DENSITY: CHANNEL 6**



TEST PERSONNEL:

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 TEST TECHNICIAN/ENGINEER

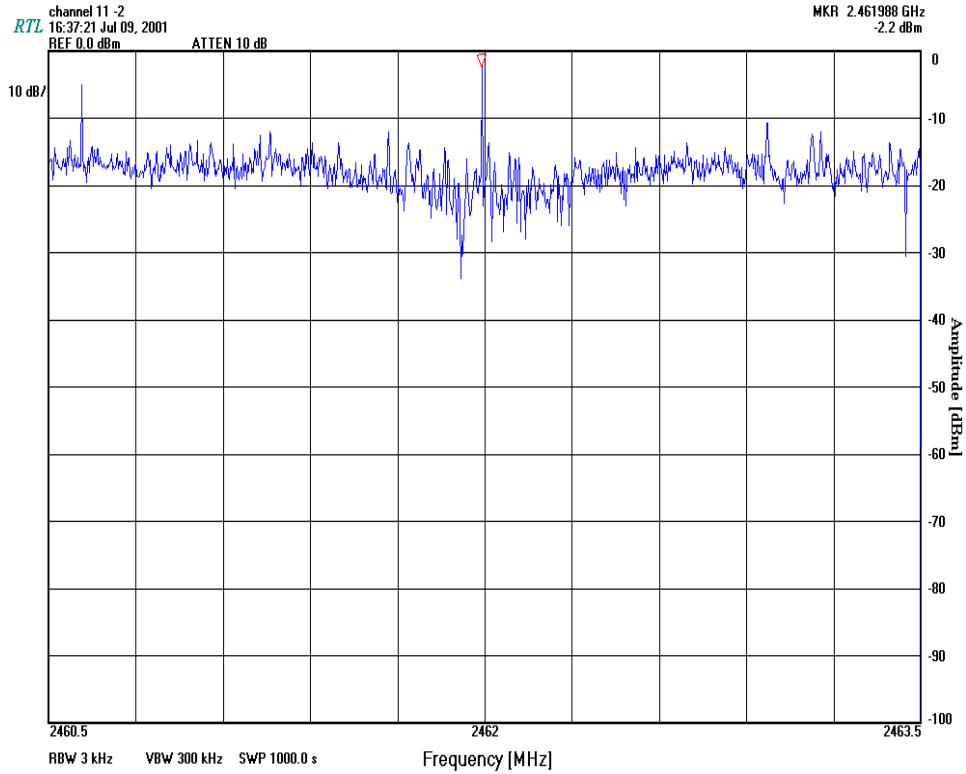
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**PLOT 12-3: FCC PART 15 §15.247(D) POWER SPECTRAL DENSITY: CHANNEL 11**



TEST PERSONNEL:

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 TEST TECHNICIAN/ENGINEER

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**TABLE 12-1: TEST EQUIPMENT USED FOR TESTING (POWER SPECTRAL DENSITY)**

RTL Asset #	Manufacturer	Model	Part Type	Serial Number
900931	HP	8566B	Spectrum Analyzer (100Hz – 22 GHz)	3138A07771