



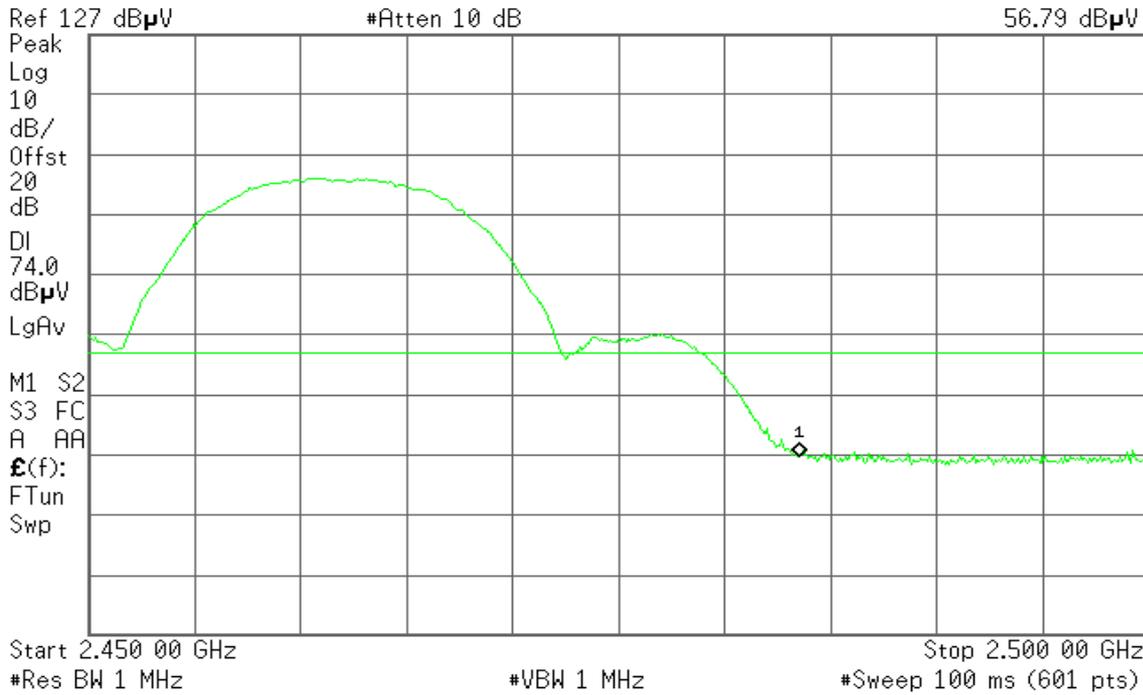
Detector mode: Peak

Polarity: Horizontal

Agilent 16:22:54 Nov 20, 2005

T

Mkr1 2.483 50 GHz
56.79 dBμV



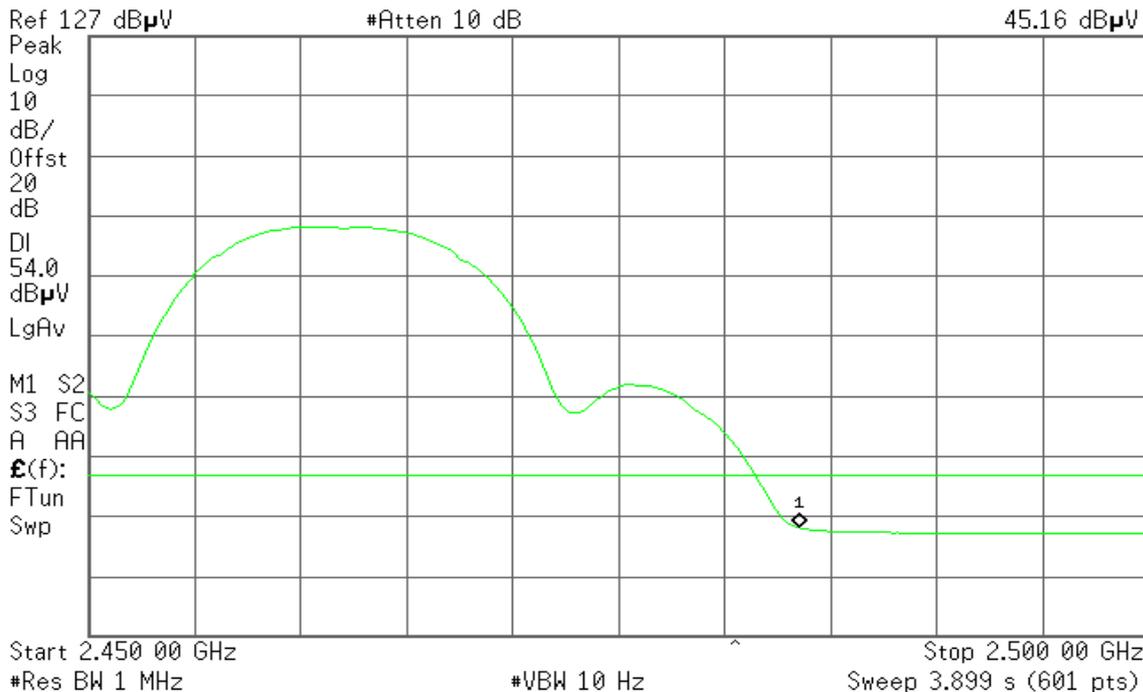
Detector mode: Average

Polarity: Horizontal

Agilent 16:22:16 Nov 20, 2005

T

Mkr1 2.483 50 GHz
45.16 dBμV





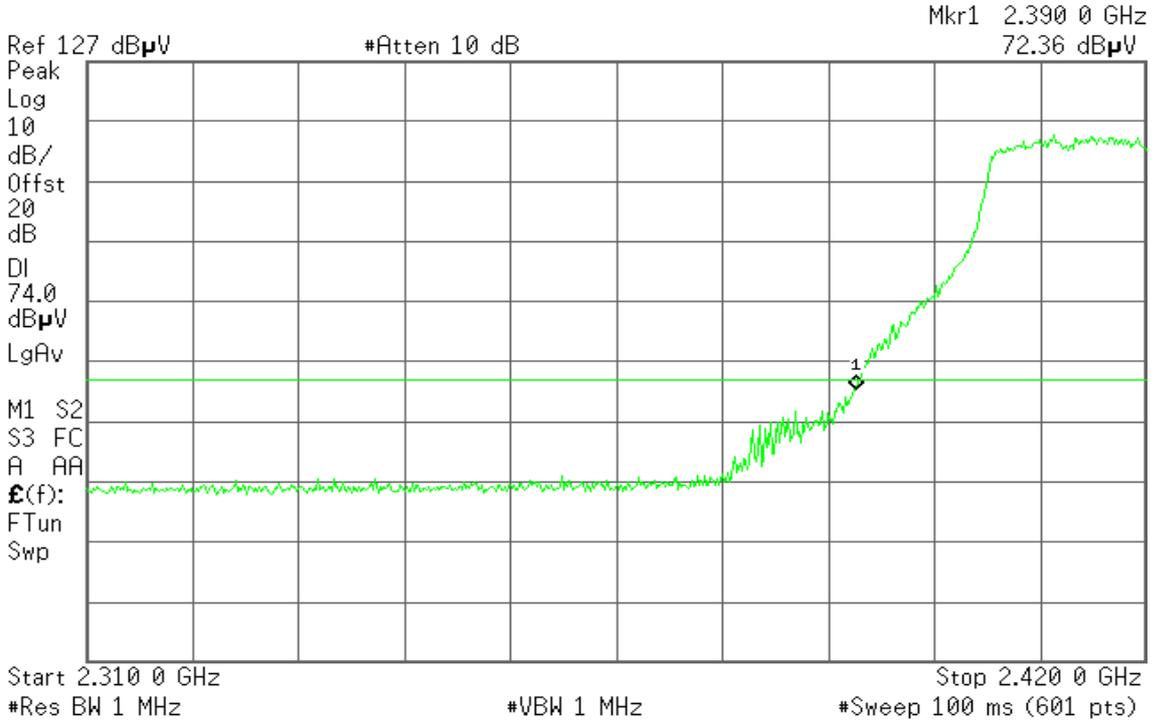
Band Edges (IEEE 802.11g / CH Low)

Detector mode: Peak

Polarity: Vertical

Agilent 16:37:56 Nov 20, 2005

T

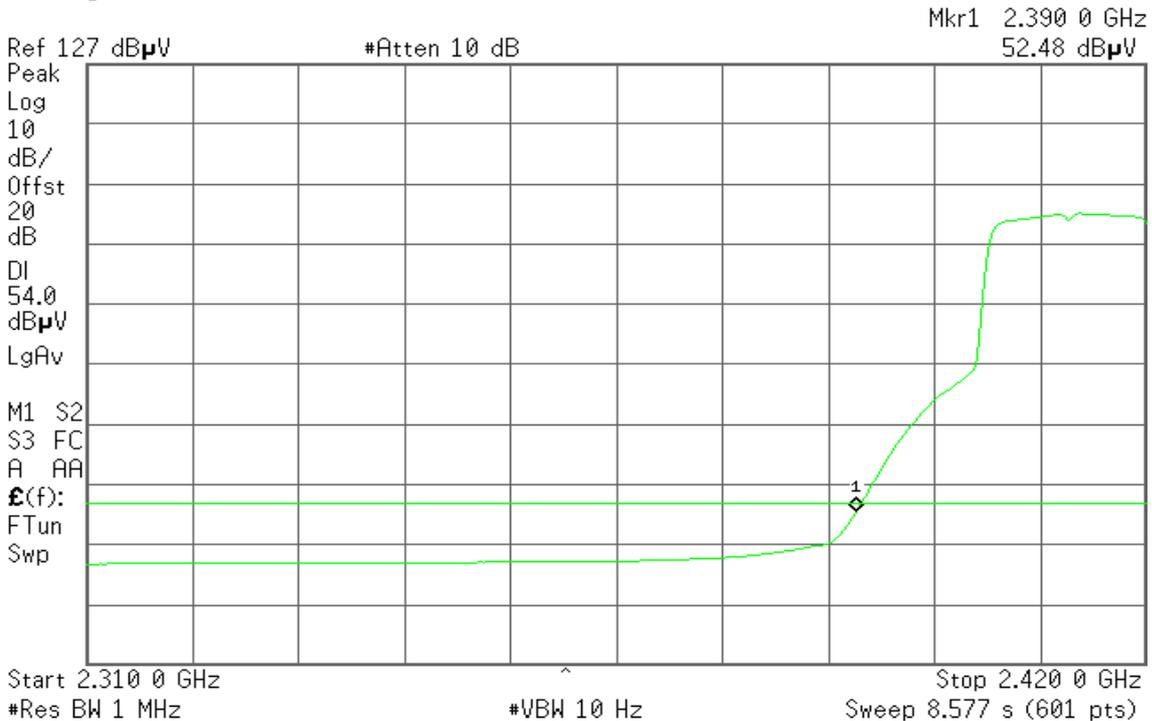


Detector mode: Average

Polarity: Vertical

Agilent 16:37:32 Nov 20, 2005

T





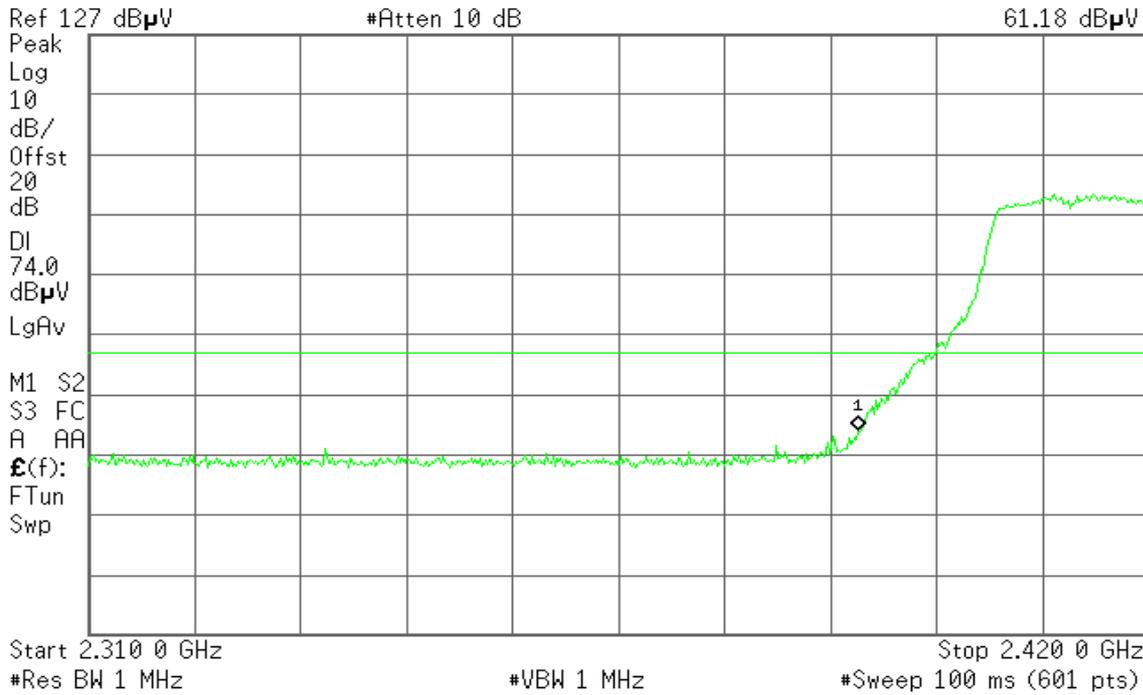
Detector mode: Peak

Polarity: Horizontal

Agilent 16:42:14 Nov 20, 2005

T

Mkr1 2.390 0 GHz
61.18 dBμV



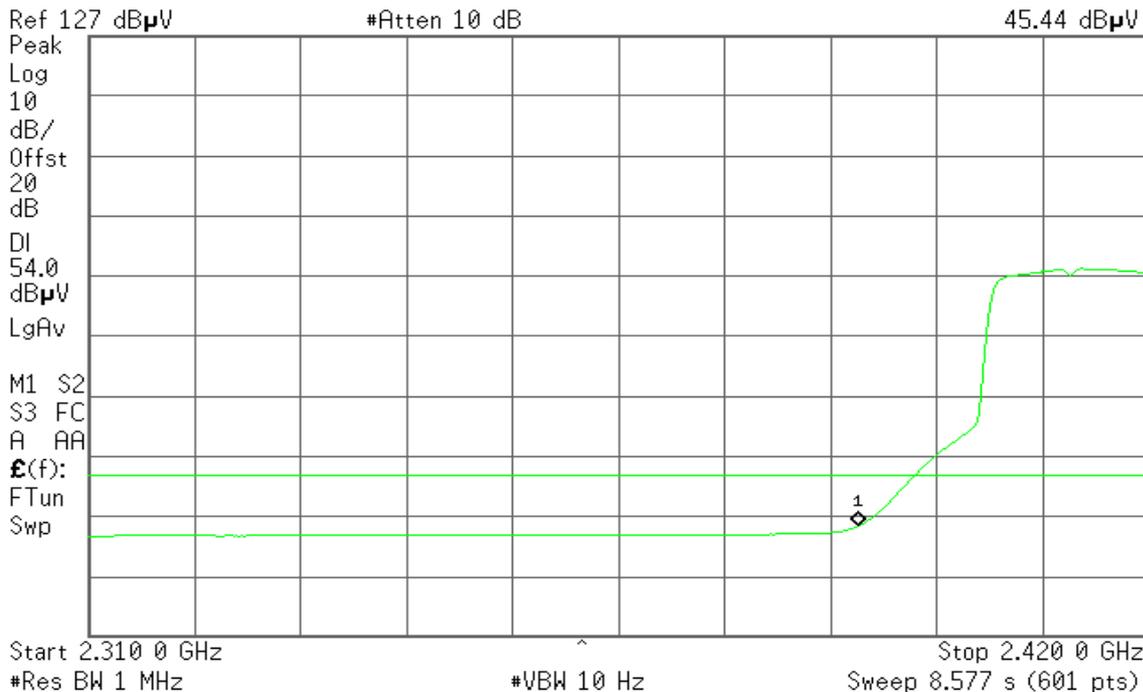
Detector mode: Average

Polarity: Horizontal

Agilent 16:41:43 Nov 20, 2005

T

Mkr1 2.390 0 GHz
45.44 dBμV





Band Edges (IEEE 802.11g / CH High)

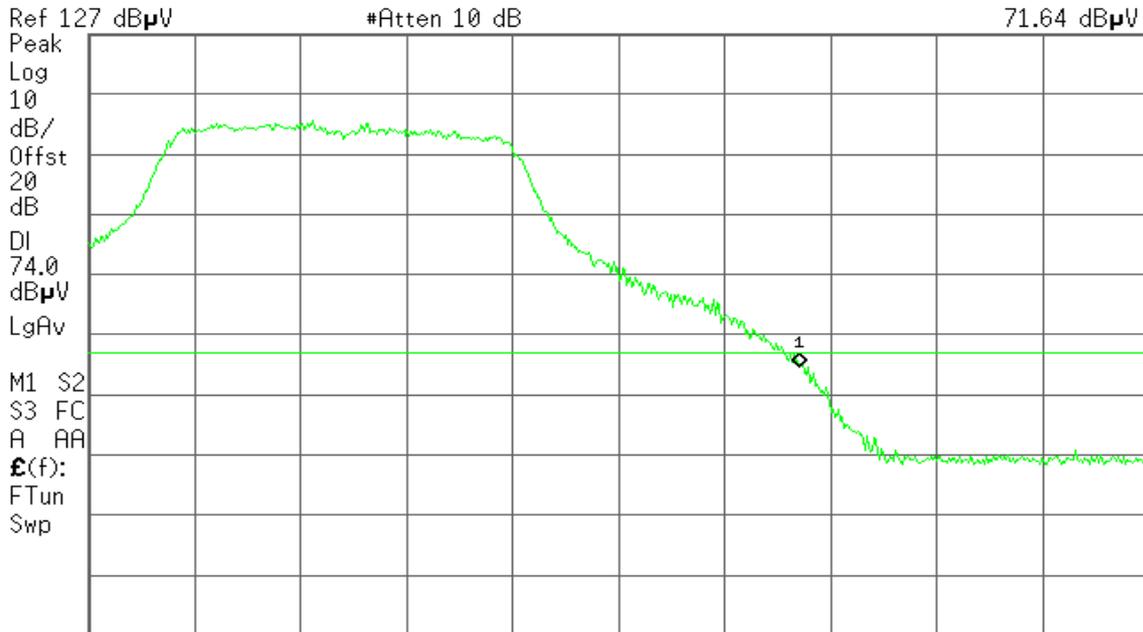
Detector mode: Peak

Polarity: Vertical

Agilent 16:29:03 Nov 20, 2005

T

Mkr1 2.483 50 GHz
71.64 dB μ V



Start 2.450 00 GHz

#Res BW 1 MHz

#VBW 1 MHz

Stop 2.500 00 GHz

#Sweep 100 ms (601 pts)

Detector mode: Average

Polarity: Vertical

Agilent 16:28:35 Nov 20, 2005

T

Mkr1 2.483 50 GHz
52.44 dB μ V



Start 2.450 00 GHz

#Res BW 1 MHz

#VBW 10 Hz

Stop 2.500 00 GHz

Sweep 3.899 s (601 pts)



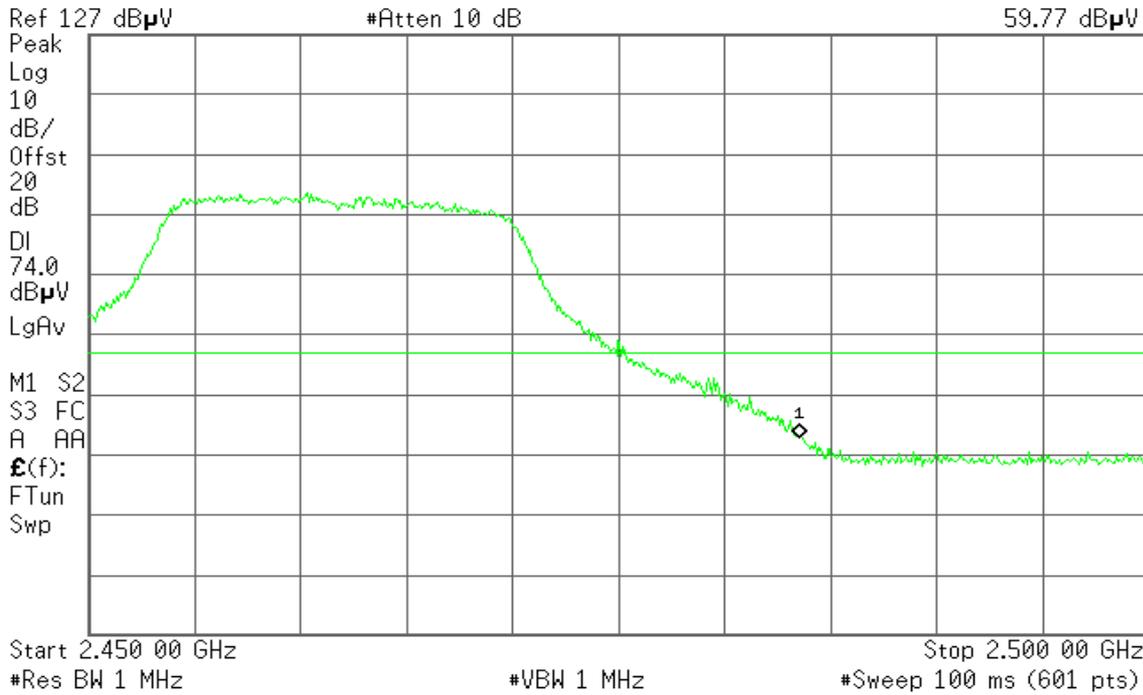
Detector mode: Peak

Polarity: Horizontal

Agilent 16:32:40 Nov 20, 2005

T

Mkr1 2.483 50 GHz
59.77 dBμV



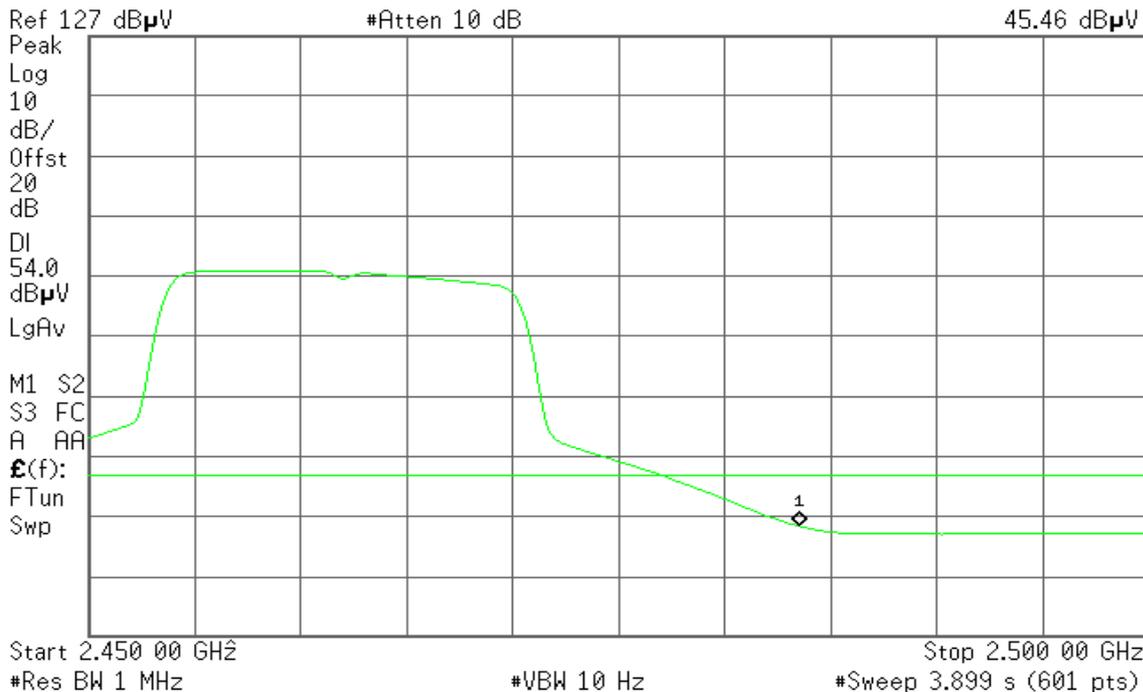
Detector mode: Average

Polarity: Horizontal

Agilent 16:32:08 Nov 20, 2005

T

Mkr1 2.483 50 GHz
45.46 dBμV





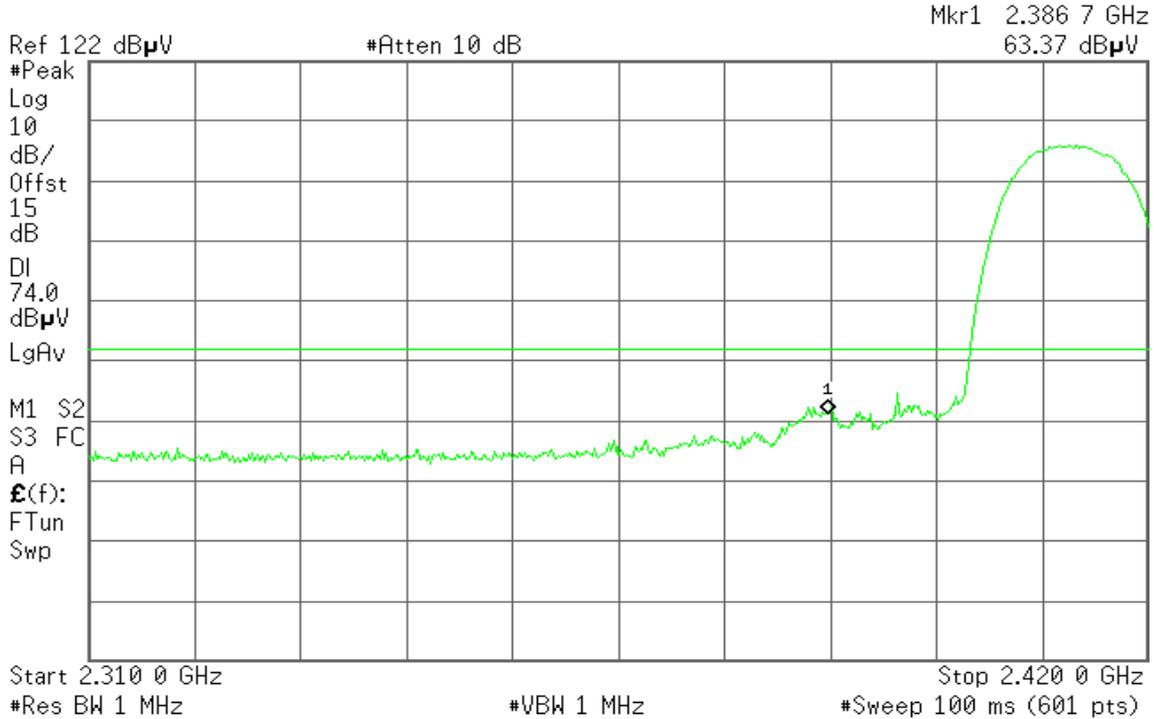
Mode 11: Antenna 9+ Module 1 Band Edges (IEEE 802.11b / CH Low)

Detector mode: Peak

Polarity: Vertical

Agilent 12:03:23 Nov 29, 2005

T

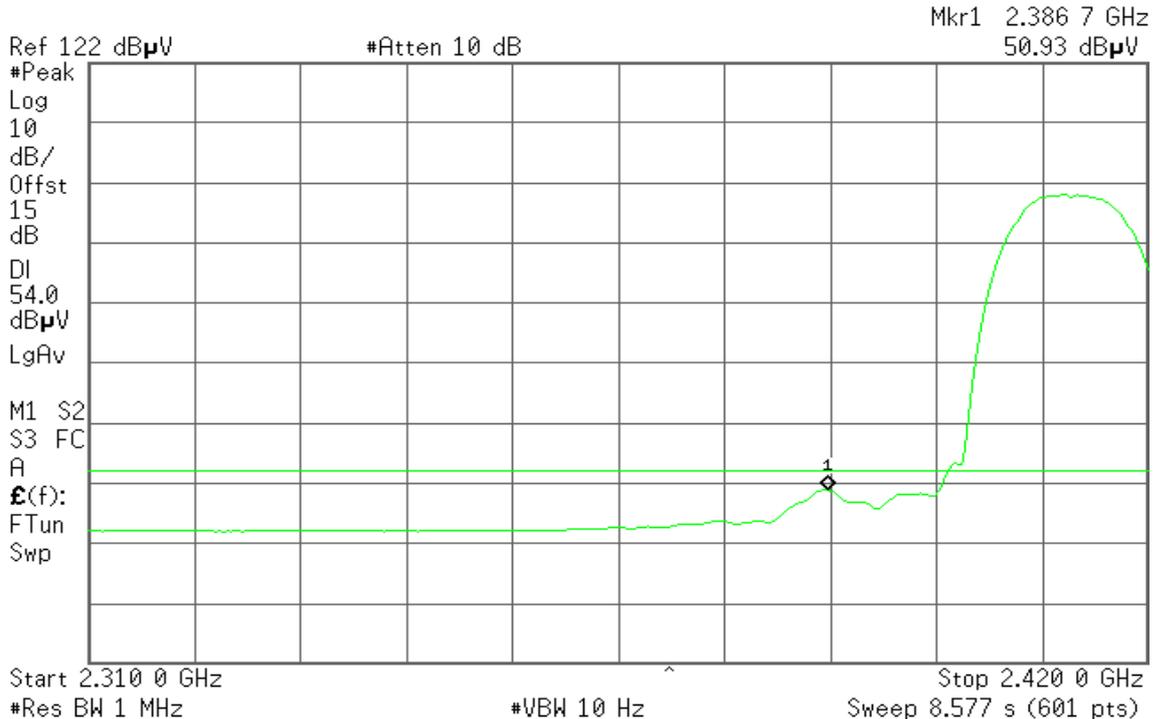


Detector mode: Average

Polarity: Vertical

Agilent 12:02:27 Nov 29, 2005

R L





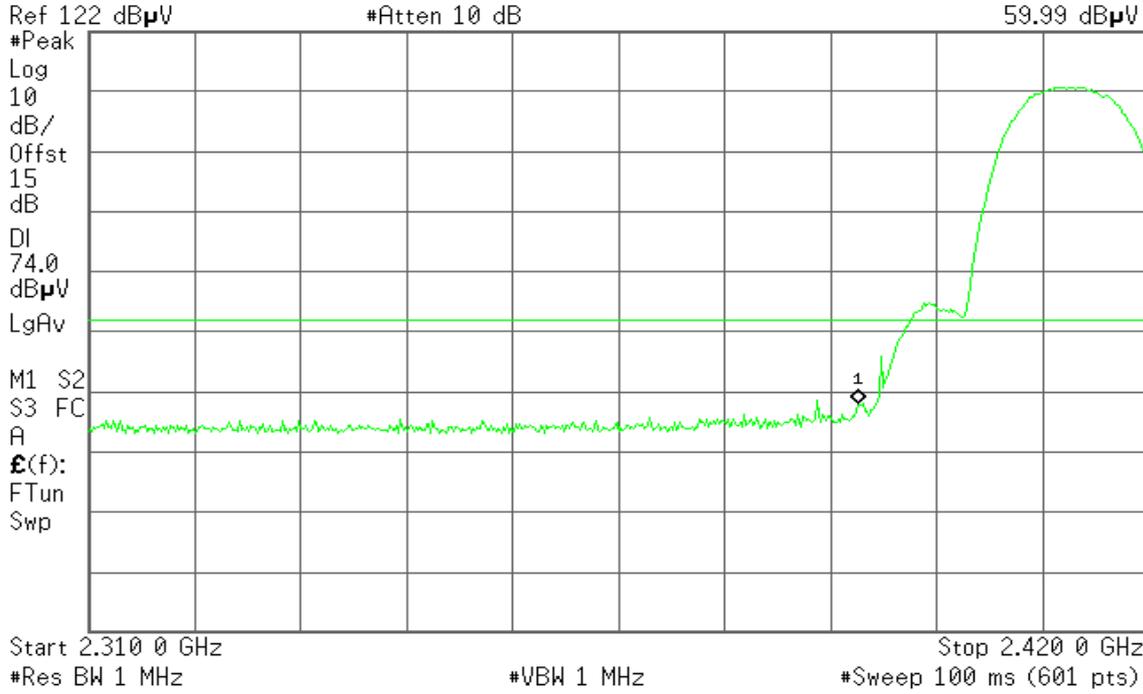
Detector mode: Peak

Polarity: Horizontal

Agilent 12:09:25 Nov 29, 2005

T

Mkr1 2.390 0 GHz
59.99 dBμV



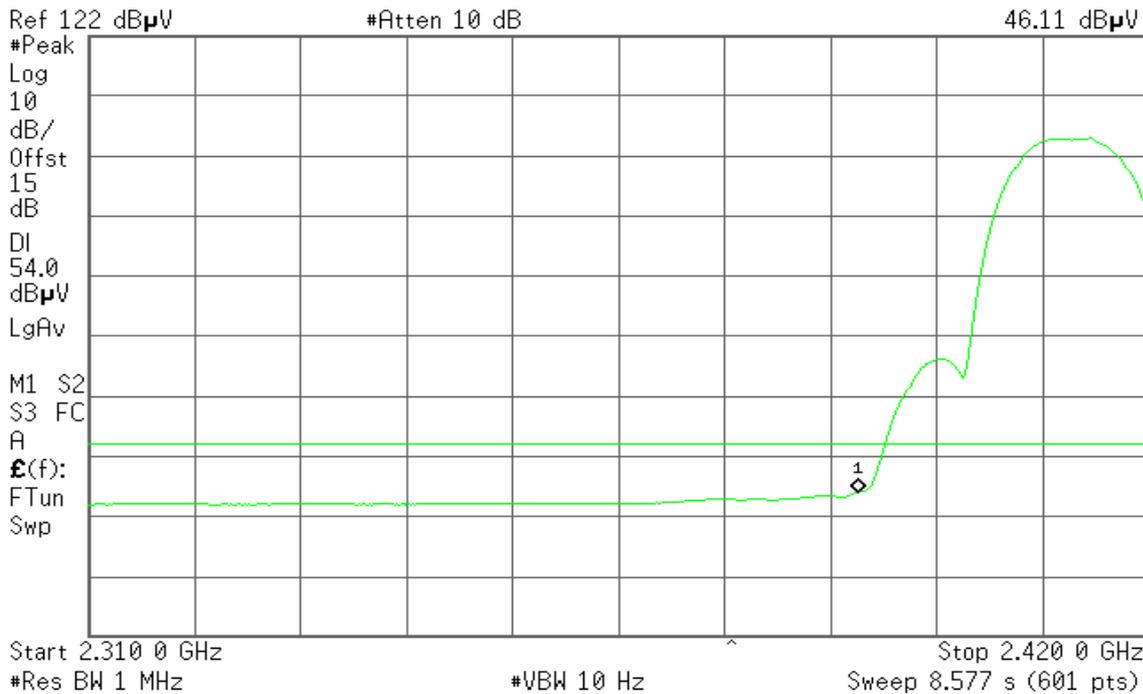
Detector mode: Average

Polarity: Horizontal

Agilent 12:08:48 Nov 29, 2005

R T

Mkr1 2.390 0 GHz
46.11 dBμV





Band Edges (IEEE 802.11b / CH High)

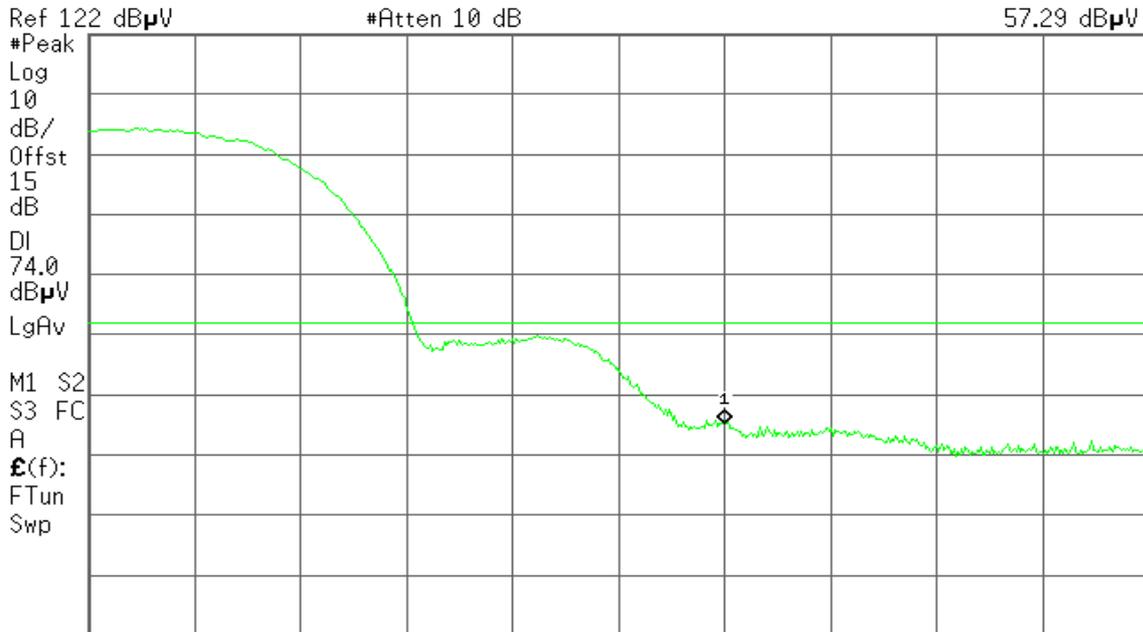
Detector mode: Peak

Polarity: Vertical

Agilent 14:23:15 Nov 29, 2005

T

Mkr1 2.483 97 GHz
57.29 dB μ V



Start 2.460 00 GHz #Res BW 1 MHz #VBW 1 MHz Stop 2.500 00 GHz #Sweep 100 ms (601 pts)

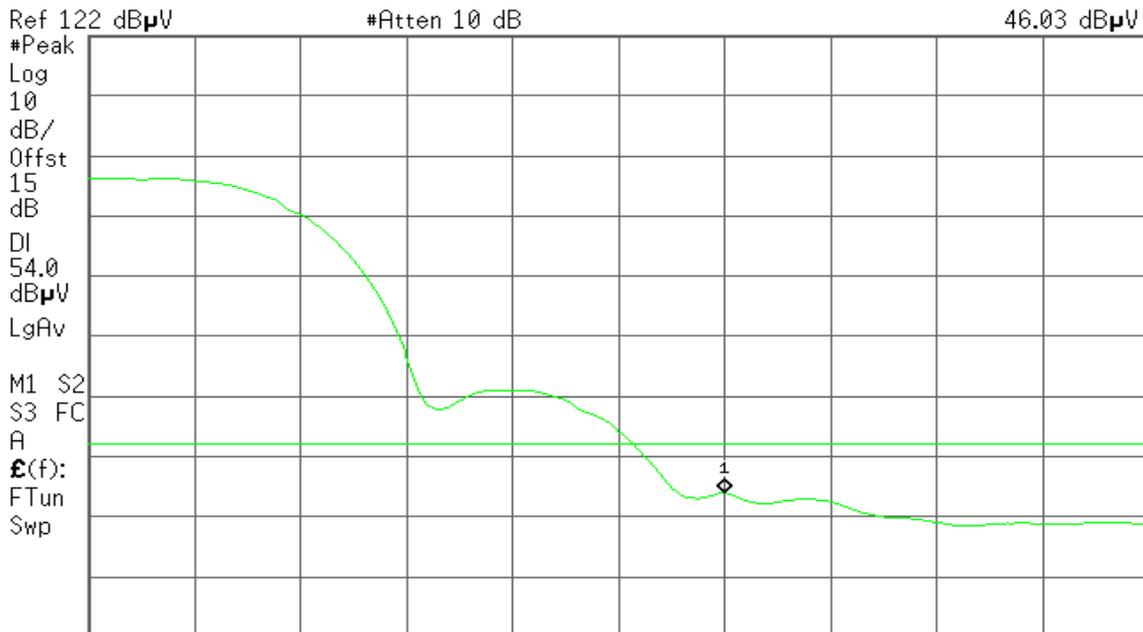
Detector mode: Average

Polarity: Vertical

Agilent 14:22:43 Nov 29, 2005

T

Mkr1 2.483 97 GHz
46.03 dB μ V



Start 2.460 00 GHz #Res BW 1 MHz #VBW 10 Hz Stop 2.500 00 GHz Sweep 3.119 s (601 pts)



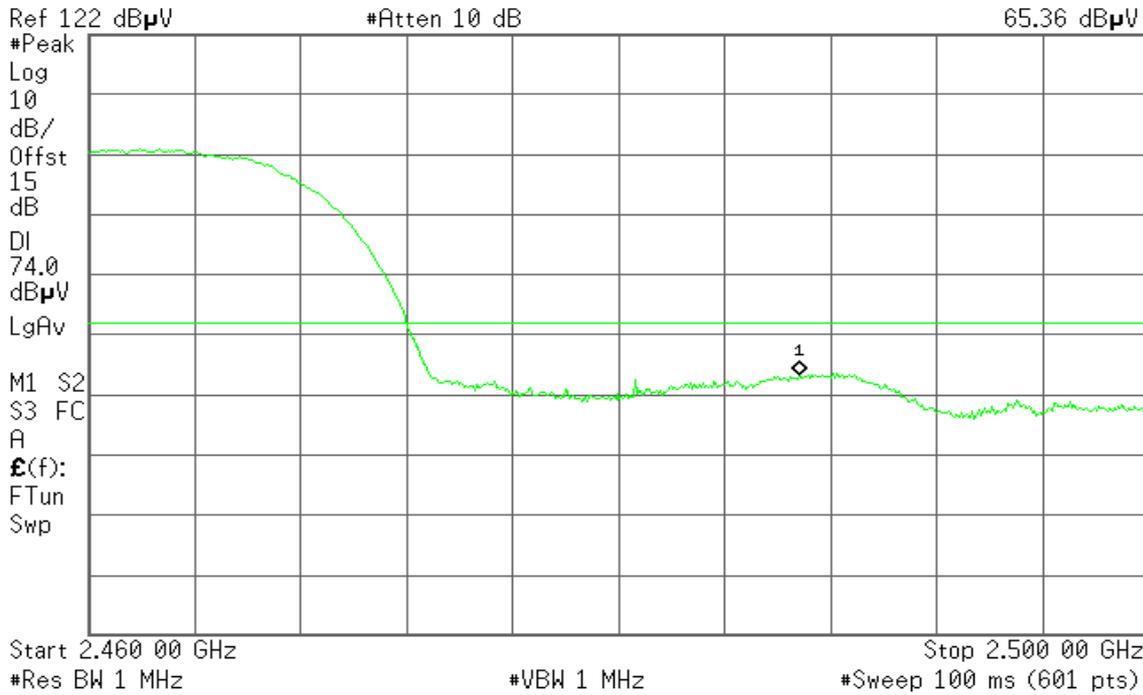
Detector mode: Peak

Polarity: Horizontal

Agilent 14:18:21 Nov 29, 2005

T

Mkr1 2.486 77 GHz
65.36 dBμV



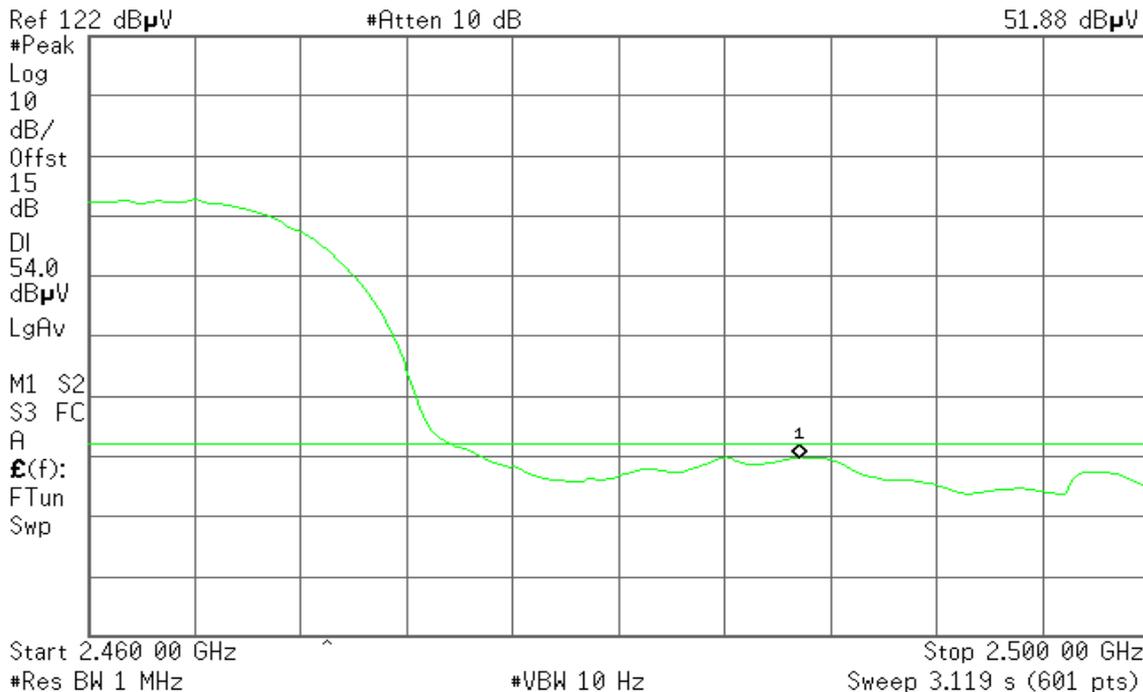
Detector mode: Average

Polarity: Horizontal

Agilent 14:17:46 Nov 29, 2005

T

Mkr1 2.486 77 GHz
51.88 dBμV





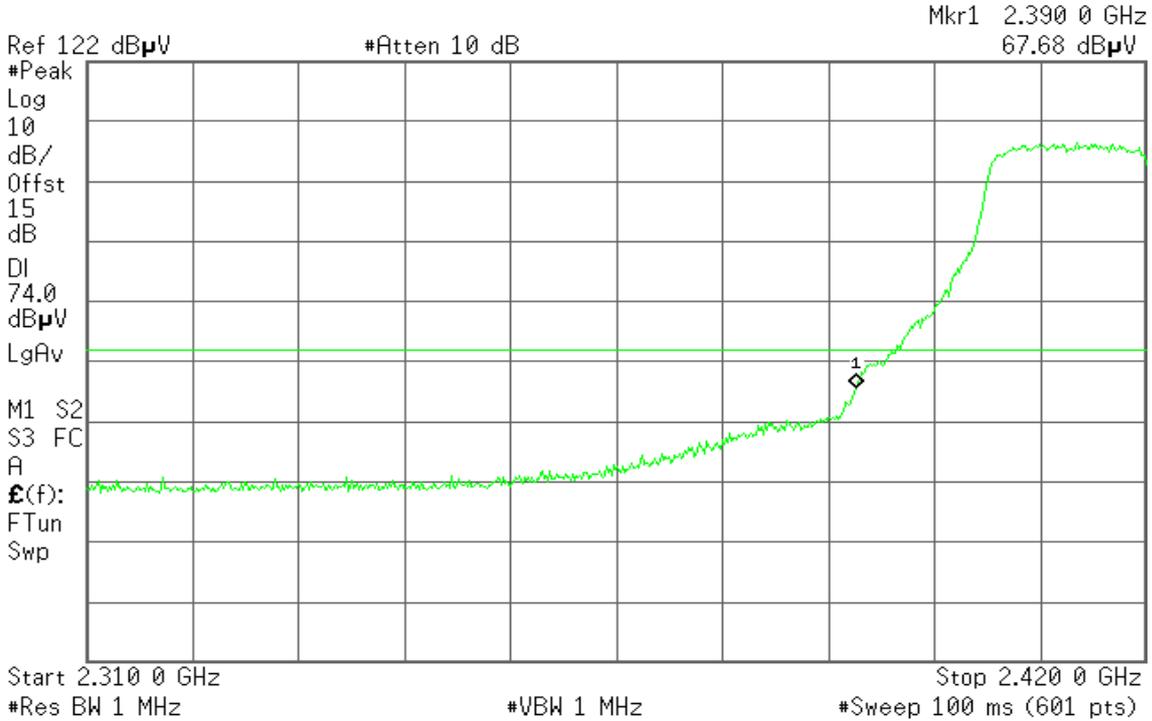
Band Edges (IEEE 802.11g / CH Low)

Detector mode: Peak

Polarity: Vertical

Agilent 14:54:26 Nov 29, 2005

T

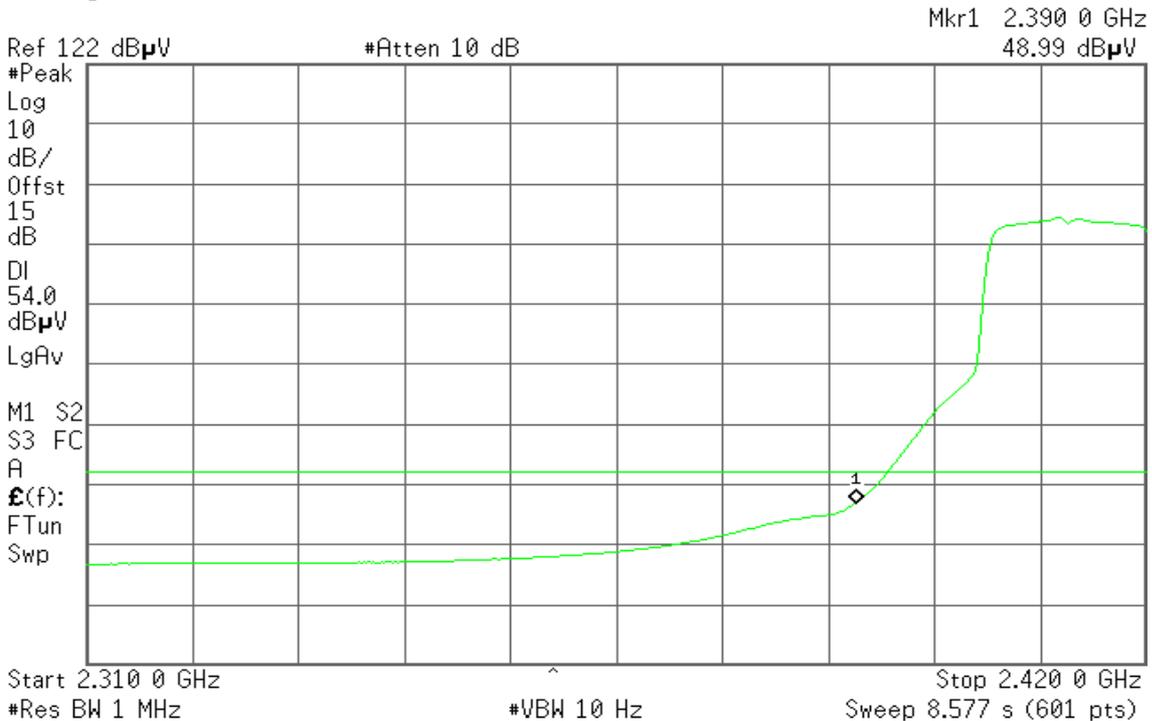


Detector mode: Average

Polarity: Vertical

Agilent 14:53:44 Nov 29, 2005

T





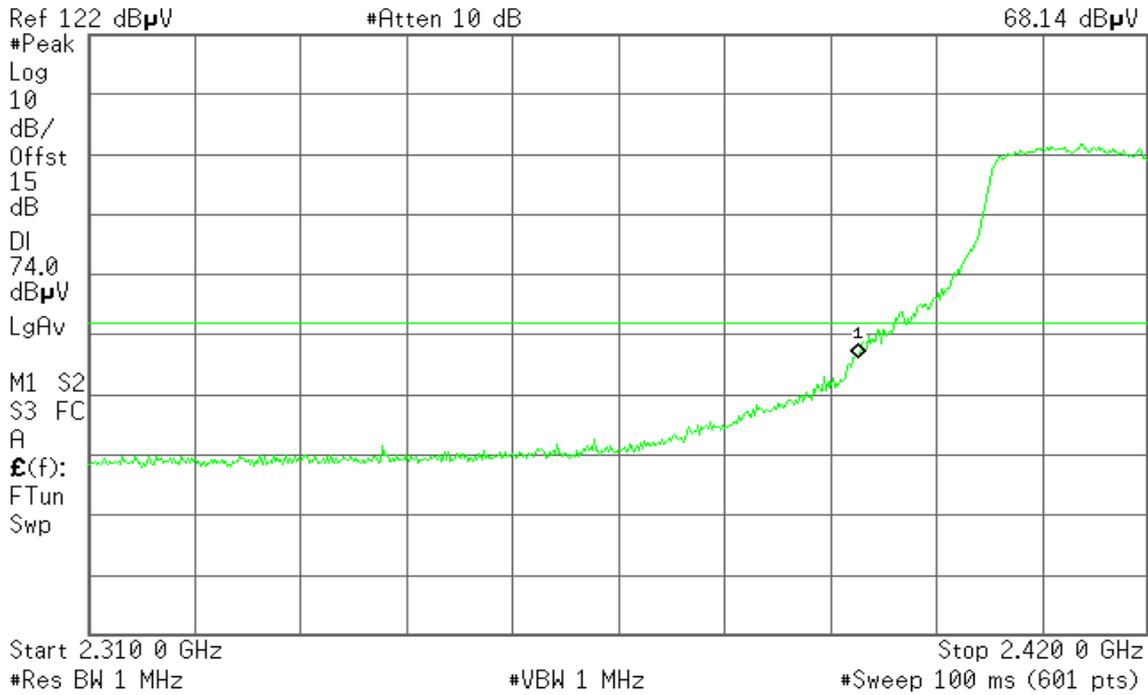
Detector mode: Peak

Polarity: Horizontal

Agilent 14:47:02 Nov 29, 2005

T

Mkr1 2.390 0 GHz
68.14 dBμV



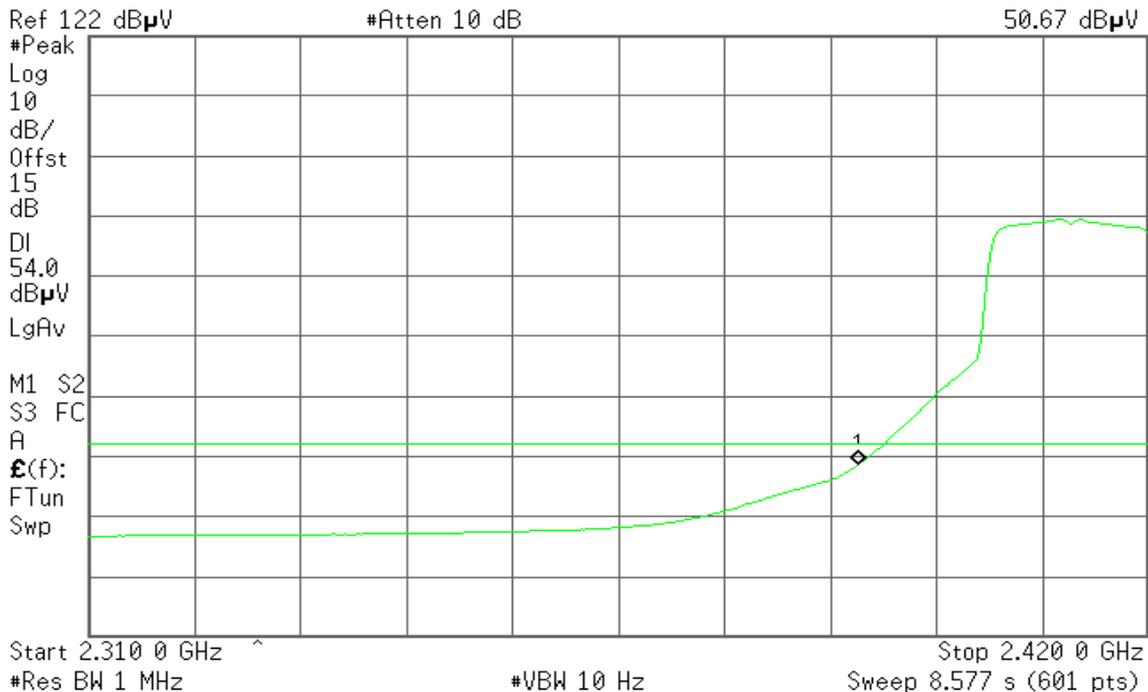
Detector mode: Average

Polarity: Horizontal

Agilent 14:46:14 Nov 29, 2005

T

Mkr1 2.390 0 GHz
50.67 dBμV





Band Edges (IEEE 802.11g / CH High)

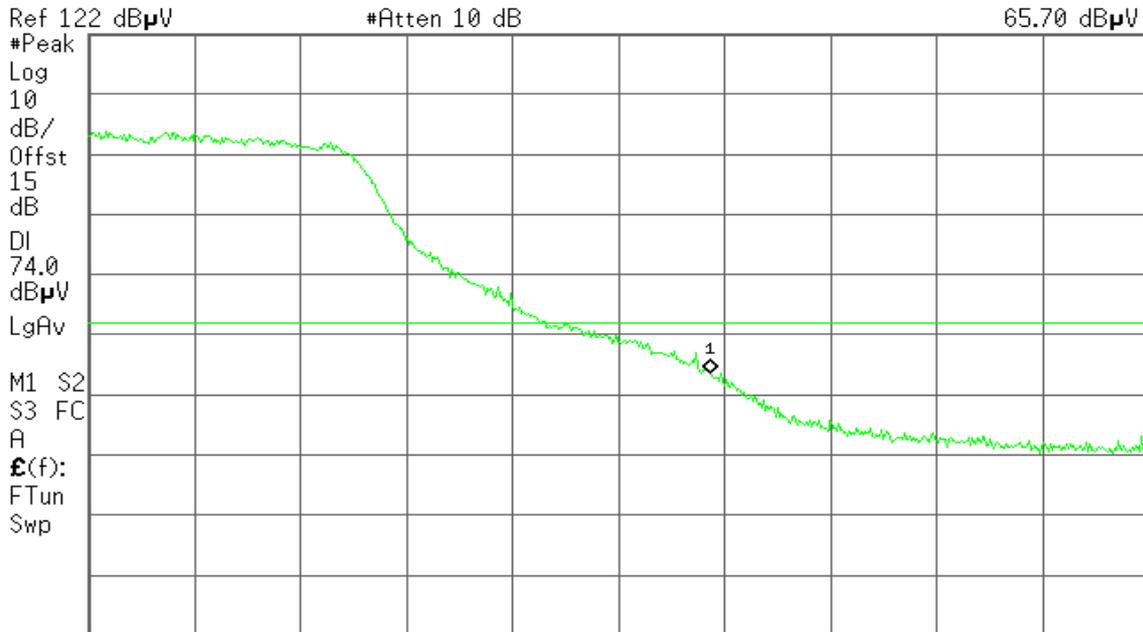
Detector mode: Peak

Polarity: Vertical

Agilent 14:38:55 Nov 29, 2005

T

Mkr1 2.483 50 GHz
65.70 dBμV



Start 2.460 00 GHz #Res BW 1 MHz #VBW 1 MHz Stop 2.500 00 GHz #Sweep 100 ms (601 pts)

Detector mode: Average

Polarity: Vertical

Agilent 14:38:13 Nov 29, 2005

T

Mkr1 2.483 50 GHz
48.93 dBμV



Start 2.460 00 GHz #Res BW 1 MHz #VBW 10 Hz Stop 2.500 00 GHz Sweep 3.119 s (601 pts)



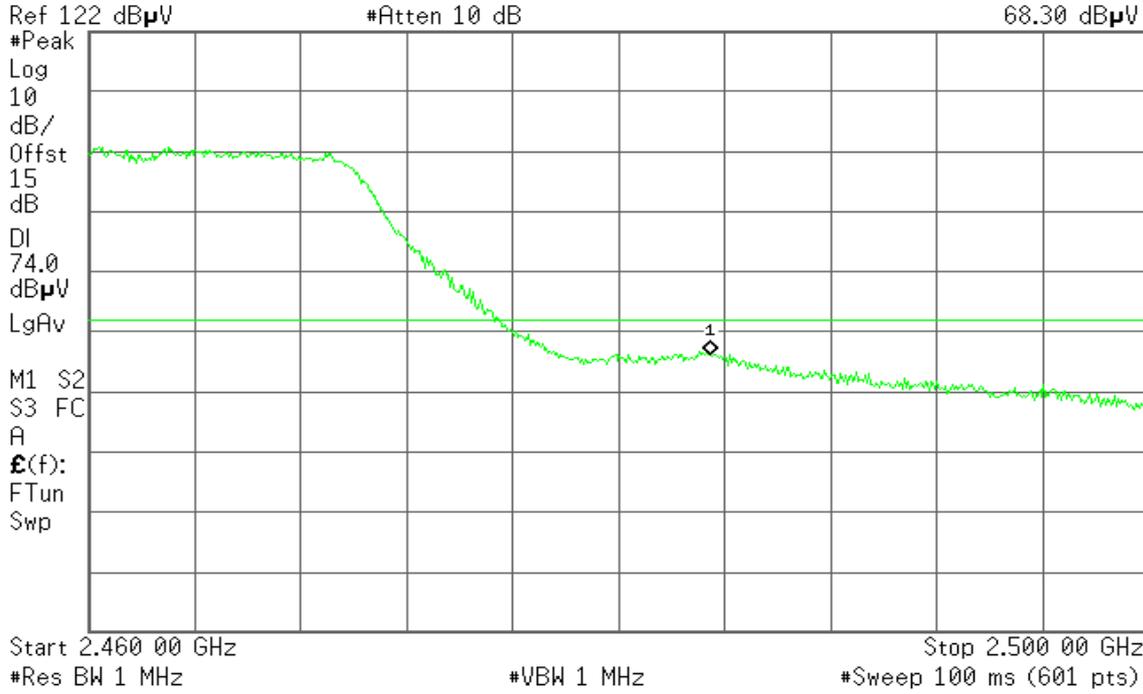
Detector mode: Peak

Polarity: Horizontal

Agilent 14:33:25 Nov 29, 2005

T

Mkr1 2.483 50 GHz
68.30 dBμV



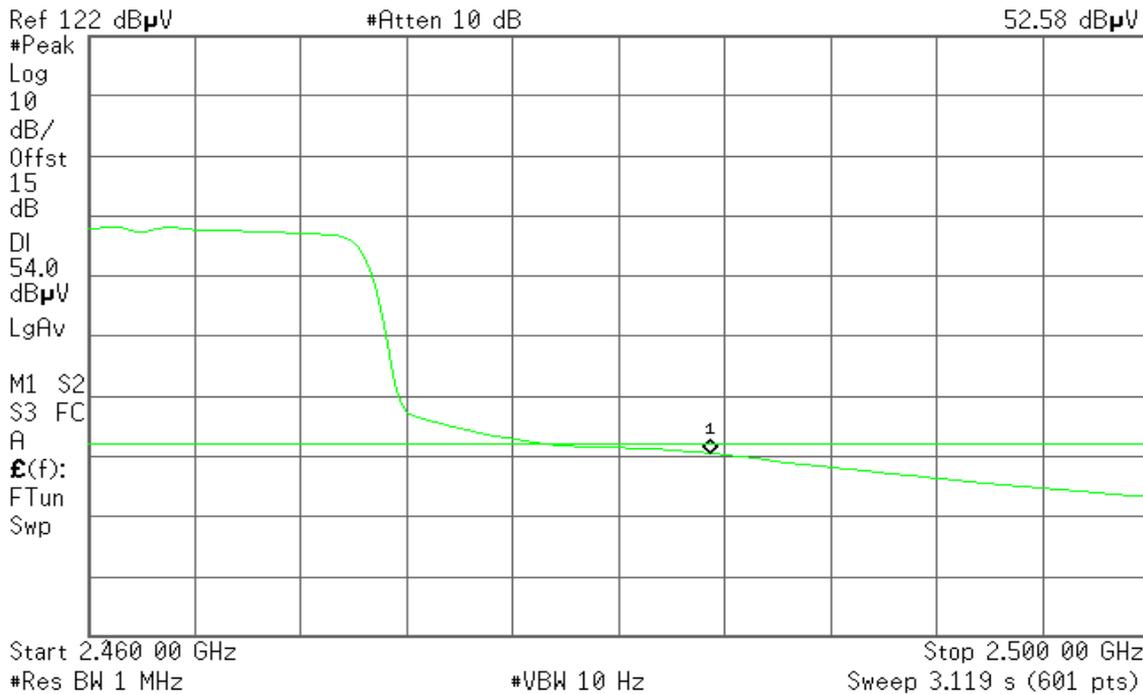
Detector mode: Average

Polarity: Horizontal

Agilent 14:32:01 Nov 29, 2005

T

Mkr1 2.483 50 GHz
52.58 dBμV

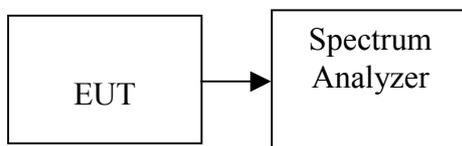


7.5 PEAK POWER SPECTRAL DENSITY

LIMIT

1. According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
2. According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s.
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.



TEST RESULTS

No non-compliance noted

Test Data

Mode 1: Antenna 2+ Module 1

Remark: The maximum antenna gain is 7.4dBi- cable loss 0.42dB= 6.98dBi; therefore the reduction due to antenna gain is 0.98dB, so the limit is 8-0.98=7.02 dBm.

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-0.55	7.02	PASS
Mid	2437	-1.35		PASS
High	2462	-2.49		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-5.52	7.02	PASS
Mid	2437	-5.22		PASS
High	2462	-6.77		PASS

Mode 2: Antenna 2+ Module 2

Remark: The maximum antenna gain is 7.4dBi- cable loss 0.75dB= 6.65dBi; therefore the reduction due to antenna gain is 0.65dB, so the limit is 8-0.65=7.35 dBm.

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-0.37	7.35	PASS
Mid	2437	-3.74		PASS
High	2462	-2.87		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-6.50	7.35	PASS
Mid	2437	-6.79		PASS
High	2462	-9.29		PASS

**Mode 3: Antenna 3+ Module 1**

Remark: The maximum antenna gain is 13.8dBi- cable loss 1.85dB- lightning arrester insertion loss 0.4dB = 11.55dBi; since this mode is fixed, point-to-point operation, the reduction due to antenna gain is 1.85dB, so the limit is 8-1.85=6.15 dBm.

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-4.43	6.15	PASS
Mid	2437	-0.46		PASS
High	2462	-2.49		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-7.46	6.15	PASS
Mid	2437	-8.63		PASS
High	2462	-10.75		PASS

Mode 4: Antenna 3+ Module 2

Remark: The maximum antenna gain is 13.8dBi- cable loss 2.18dB- lightning arrester insertion loss 0.4dB = 11.22dBi; since this mode is fixed, point-to-point operation, the reduction due to antenna gain is 1.74dB, so the limit is 8-1.74=6.26 dBm.

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	0.11	6.26	PASS
Mid	2437	-3.28		PASS
High	2462	-3.30		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-5.08	6.26	PASS
Mid	2437	-4.94		PASS
High	2462	-7.93		PASS

**Mode 5: Antenna 4+ Module 1**

Remark: The maximum antenna gain is 3.0dBi- cable loss 0.42dB= 2.58dBi; therefore there is no reduction due to antenna gain.

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-1.12	8.00	PASS
Mid	2437	-1.12		PASS
High	2462	-1.87		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-4.49	8.00	PASS
Mid	2437	-4.37		PASS
High	2462	-6.86		PASS

Mode 6: Antenna 4+ Module 2

*Remark: The maximum antenna gain is 3.0dBi- cable loss 0.75dB= 2.25dBi. (For b/g mode)
The maximum antenna gain is 4.0dBi- cable loss 1.26dB= 2.74dBi. (For a mode)
Therefore there is no reduction due to antenna gain.*

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	2.74	8.00	PASS
Mid	2437	2.20		PASS
High	2462	3.74		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-2.55	8.00	PASS
Mid	2437	-2.77		PASS
High	2462	-4.05		PASS

Test mode: IEEE 802.11a mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	5745	-7.69	8.00	PASS
Mid	5785	-8.51		PASS
High	5825	-8.36		PASS

**Mode 7: Antenna 5+ Module 1**

Remark: The maximum antenna gain is 6.9dBi- cable loss 0.42dB= 6.48dBi; therefore the reduction due to antenna gain is 0.48dB, so the limit is 8-0.48=7.52 dBm.

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-1.41	7.52	PASS
Mid	2437	-1.84		PASS
High	2462	-1.00		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-3.26	7.52	PASS
Mid	2437	-4.81		PASS
High	2462	-7.71		PASS

Mode 8: Antenna 5+ Module 2

Remark: The maximum antenna gain is 6.9dBi- cable loss 0.75dB= 6.15dBi. (For b/g mode); therefore the reduction due to antenna gain is 0.15dB, so the limit is 8-0.15=7.85 dBm.

The maximum antenna gain is 7.7dBi- cable loss 1.26dB= 6.44dBi. (For a mode); therefore the reduction due to antenna gain is 0.44dB, so the limit is 8-0.44=7.56 dBm.

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	1.01	7.85	PASS
Mid	2437	2.23		PASS
High	2462	-3.11		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-3.69	7.85	PASS
Mid	2437	-2.82		PASS
High	2462	-4.60		PASS

Test mode: IEEE 802.11a mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	5745	-8.87	7.56	PASS
Mid	5785	-7.05		PASS
High	5825	-7.86		PASS

**Mode 9: Antenna 6+ Module 2**

Remark: The maximum antenna gain is 6.3dBi- cable loss 1.26dB= 5.04dBi; therefore there is no reduction due to antenna gain.

Test mode: IEEE 802.11a mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	5745	-8.41	8.00	PASS
Mid	5785	-8.56		PASS
High	5825	-8.77		PASS

Mode 10: Antenna 7+ Module 2

Remark: The maximum antenna gain is 13.3dBi- cable loss 1.26dB= 12.04dBi; therefore the reduction due to antenna gain is 6.04dB, so the limit is 8-6.04=1.96 dBm.

Test mode: IEEE 802.11a mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	5745	-7.93	1.96	PASS
Mid	5785	-7.89		PASS
High	5825	-7.83		PASS

Mode 11: Antenna 9+ Module 1

Remark: The maximum antenna gain is 5.92dBi- cable loss 0.42dB=5.5dBi; therefore there is no reduction due to antenna gain.

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-3.27	8.00	PASS
Mid	2437	2.33		PASS
High	2462	1.42		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	2.16	8.00	PASS
Mid	2437	-5.43		PASS
High	2462	0.84		PASS

Mode 12: Antenna 11+ Module 2

Remark: The maximum antenna gain is 5.95dBi- cable loss 1.26dB= 4.69dBi; therefore there is no reduction due to antenna gain.

Test mode: IEEE 802.11a mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	5745	-8.17	8.00	PASS
Mid	5785	-8.64		PASS
High	5825	-8.47		PASS

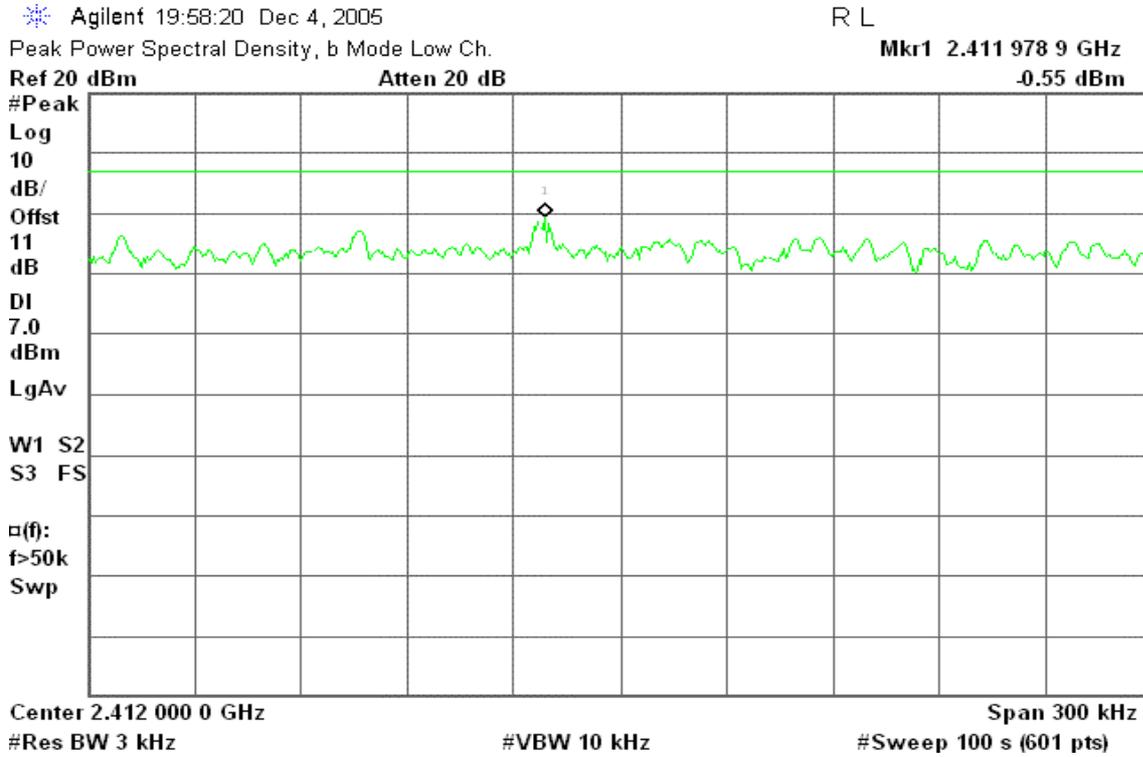


Test Plot

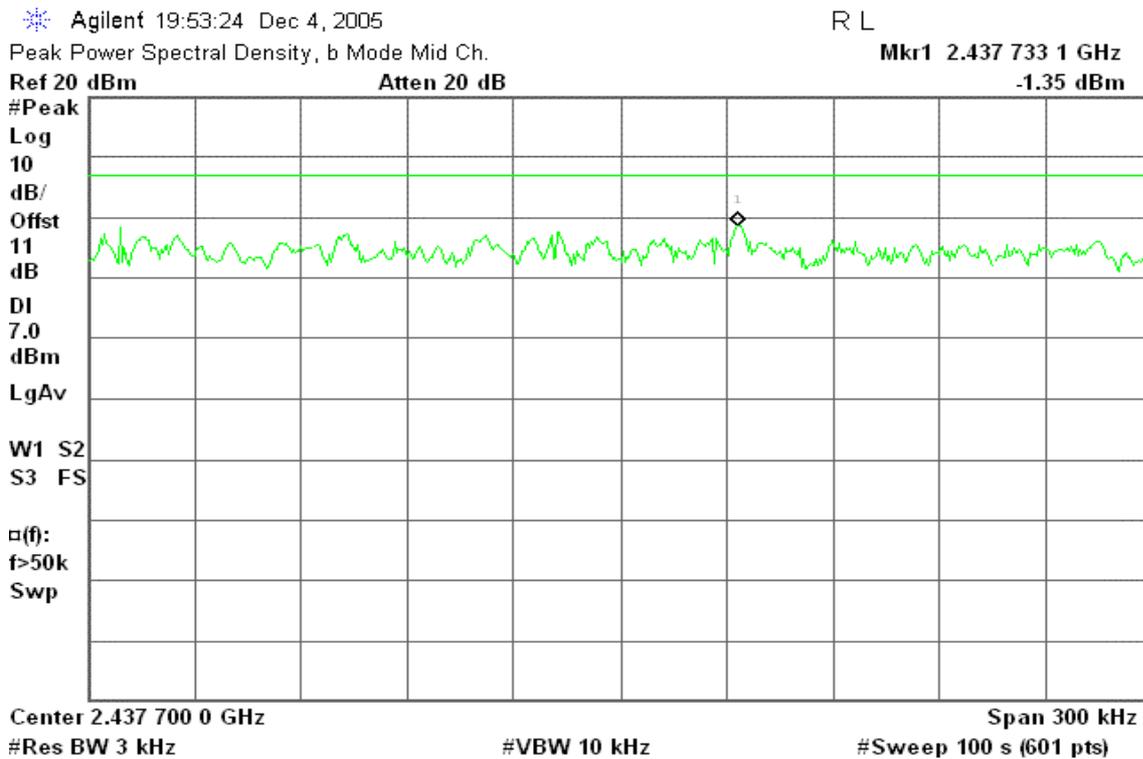
Mode 1: Antenna 2+ Module 1

IEEE 802.11b

CH Low



CH Mid





CH High

Agilent 19:28:58 Dec 4, 2005

R L

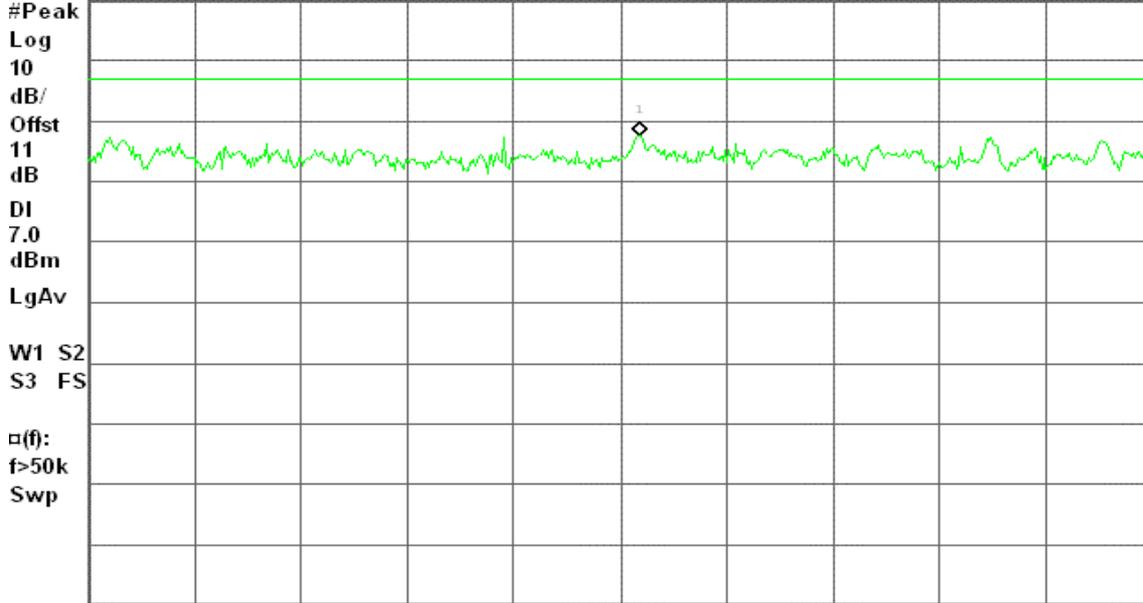
Peak Power Spectral Density, b Mode High Ch.

Mkr1 2.461 455 5 GHz

Ref 20 dBm

Atten 20 dB

-2.49 dBm



Center 2.461 450 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

IEEE 802.11g

CH Low

Agilent 20:38:47 Dec 4, 2005

R L

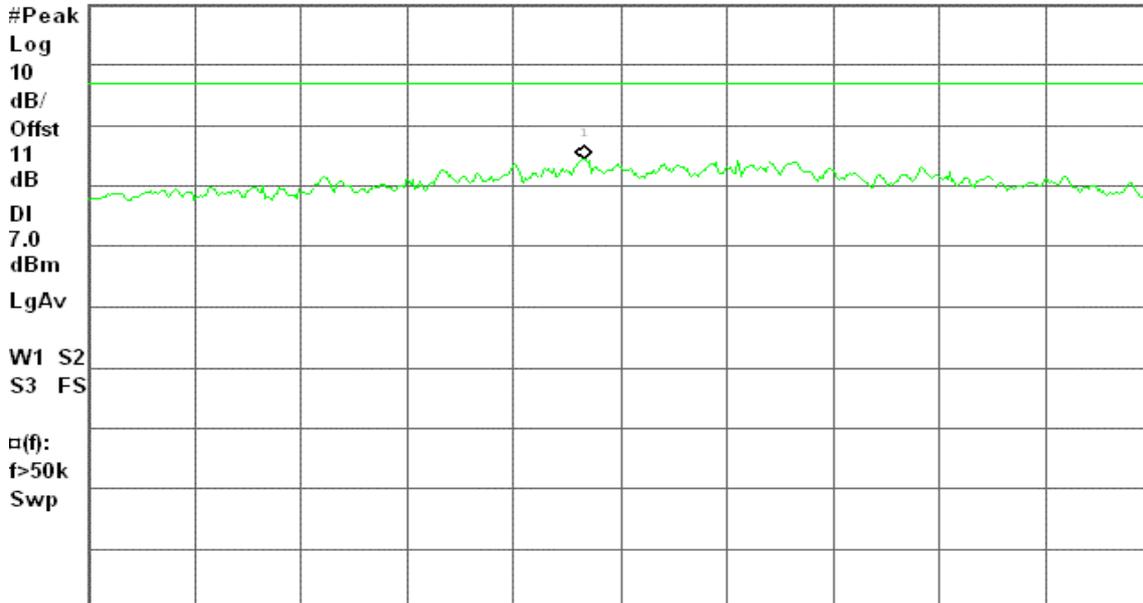
Peak Power Spectral Density, g Mode Low Ch.

Mkr1 2.410 689 5 GHz

Ref 20 dBm

Atten 20 dB

-5.52 dBm



Center 2.410 700 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



CH Mid

Agilent 20:24:42 Dec 4, 2005

R L

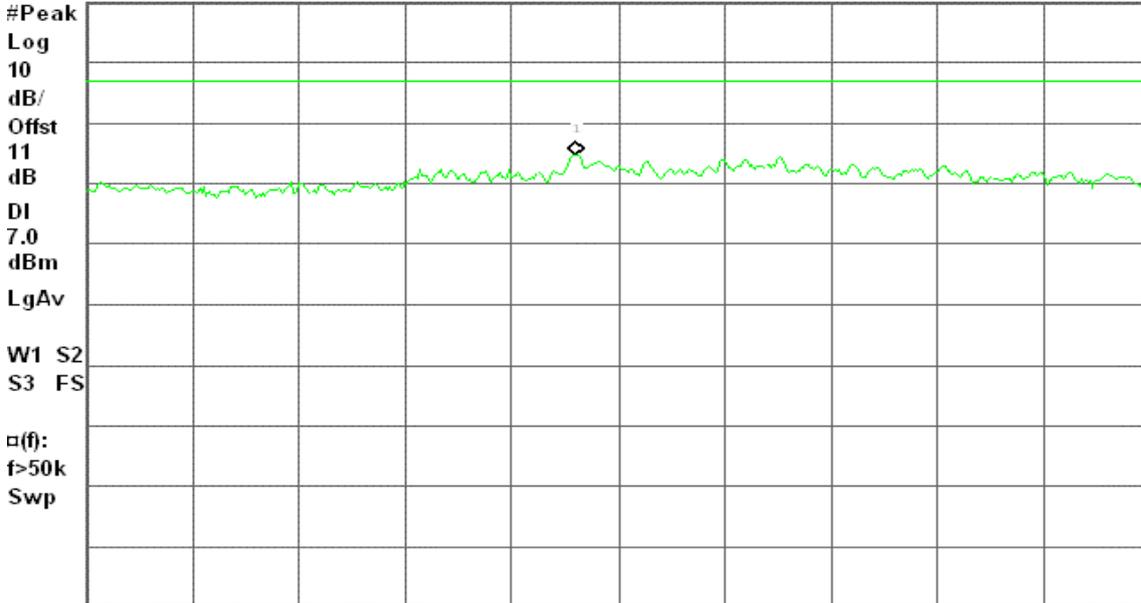
Peak Power Spectral Density, g Mode Mid Ch.

Mkr1 2.433 487 9 GHz

Ref 20 dBm

Atten 20 dB

-5.22 dBm



Center 2.433 500 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

CH High

Agilent 20:32:37 Dec 4, 2005

R L

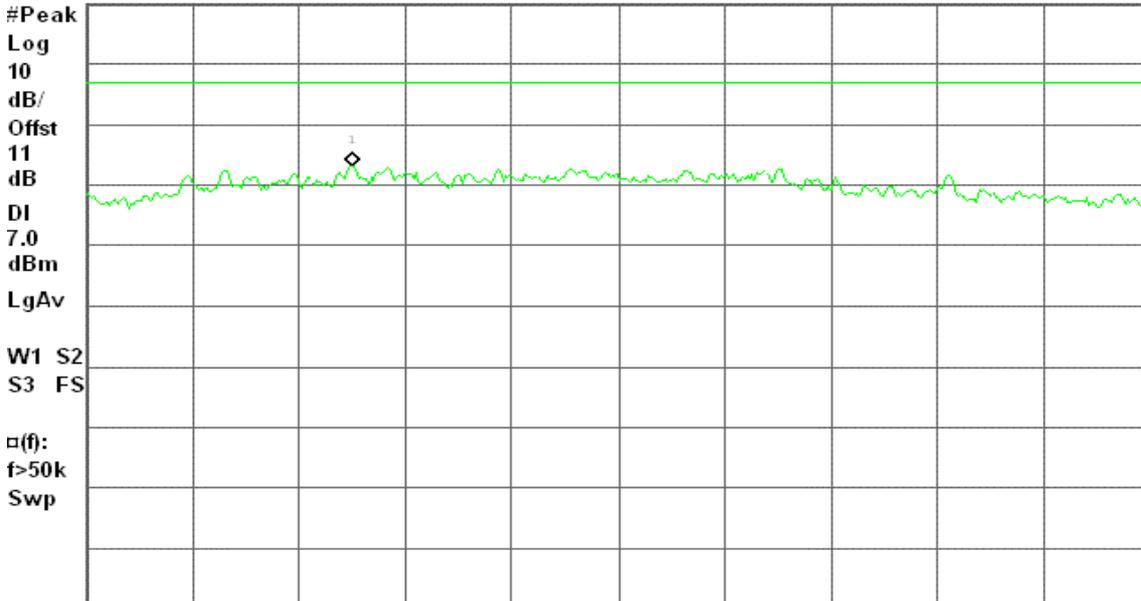
Peak Power Spectral Density, g Mode High Ch.

Mkr1 2.458 174 5 GHz

Ref 20 dBm

Atten 20 dB

-6.77 dBm



Center 2.458 250 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

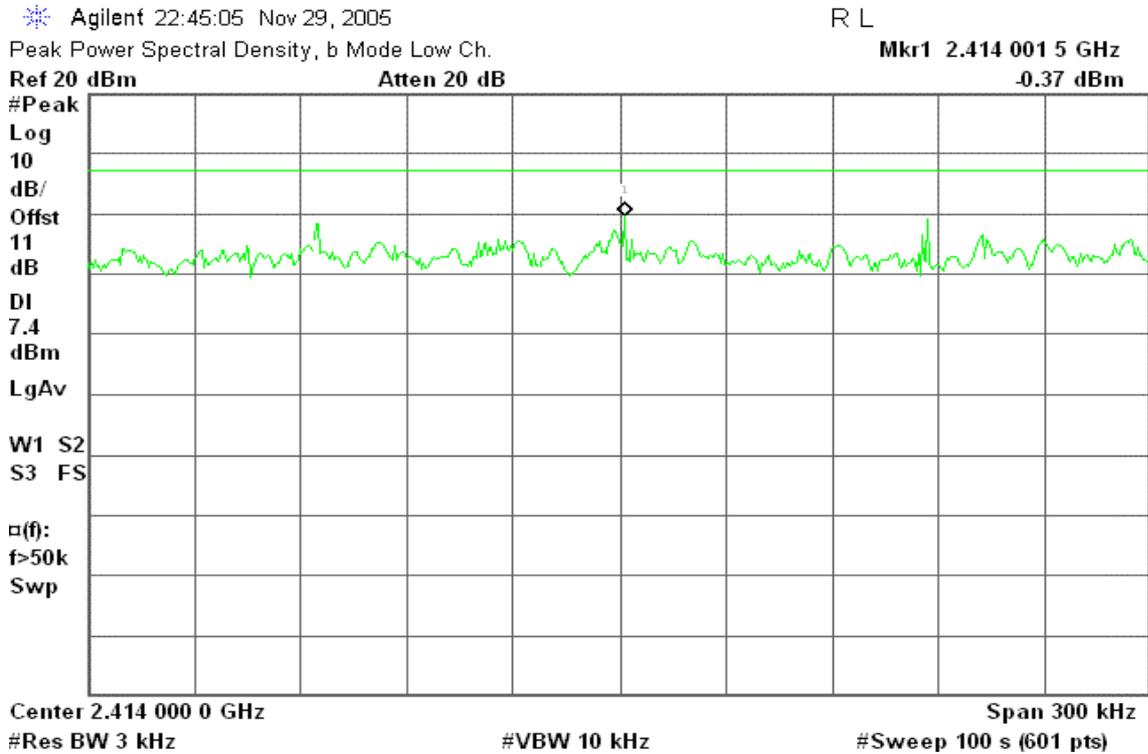
#Sweep 100 s (601 pts)



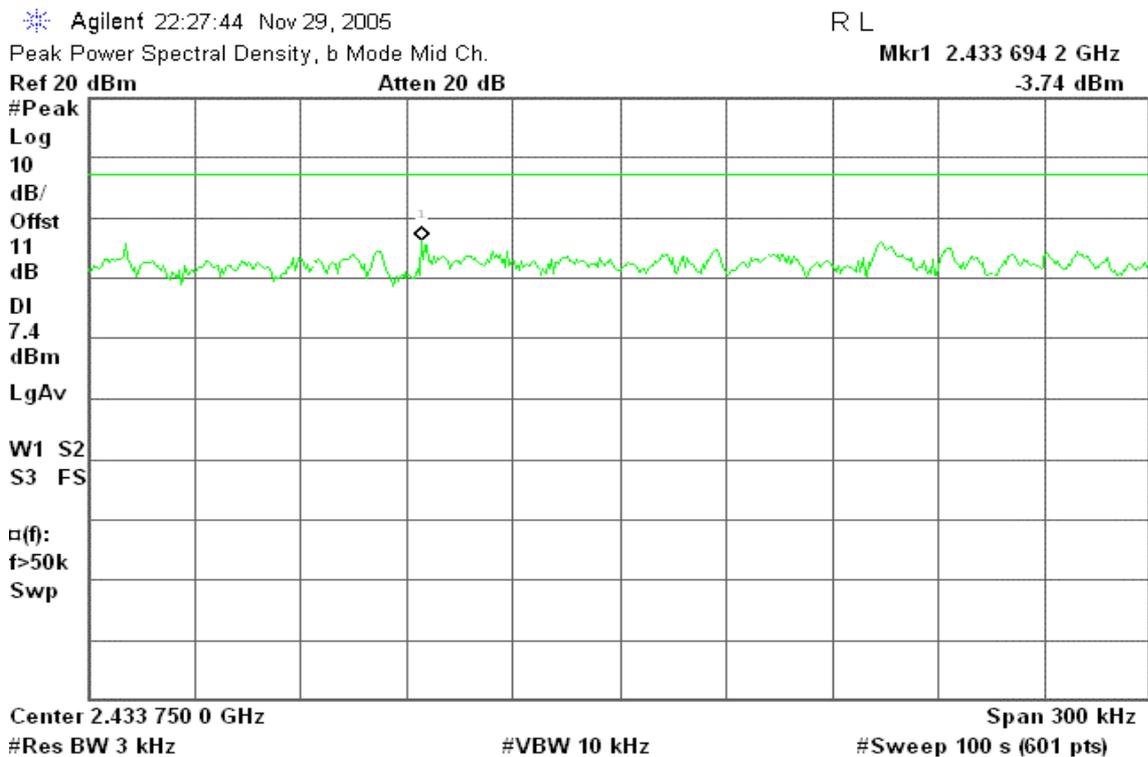
Mode 2: Antenna 2+ Module 2

IEEE 802.11b

CH Low



CH Mid





CH High

Agilent 22:36:11 Nov 29, 2005

R L

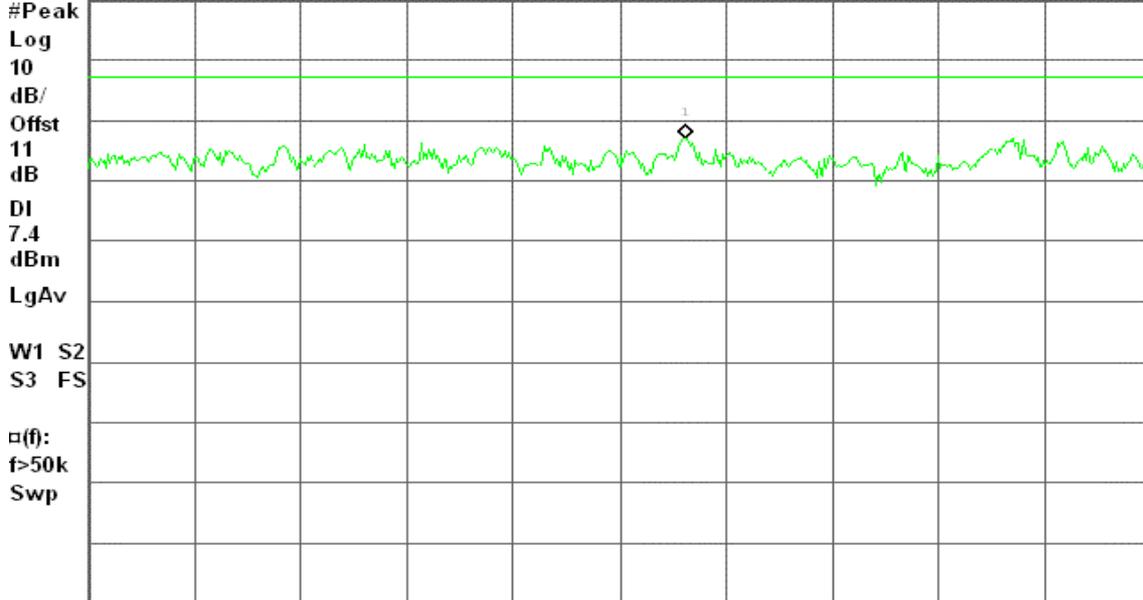
Peak Power Spectral Density, b Mode High Ch.

Mkr1 2.460 318 6 GHz

Ref 20 dBm

Atten 20 dB

-2.87 dBm



Center 2.460 300 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

IEEE 802.11g

CH Low

Agilent 22:53:21 Nov 29, 2005

R L

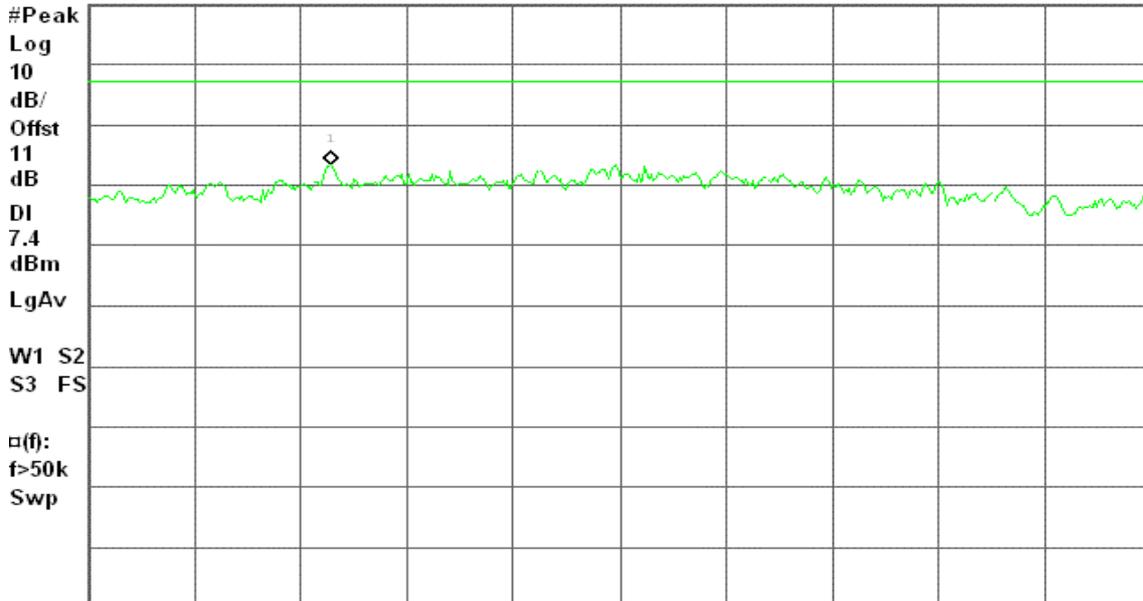
Peak Power Spectral Density, g Mode Low Ch.

Mkr1 2.418 168 3 GHz

Ref 20 dBm

Atten 20 dB

-6.50 dBm



Center 2.418 250 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



CH Mid

Agilent 23:00:46 Nov 29, 2005

R L

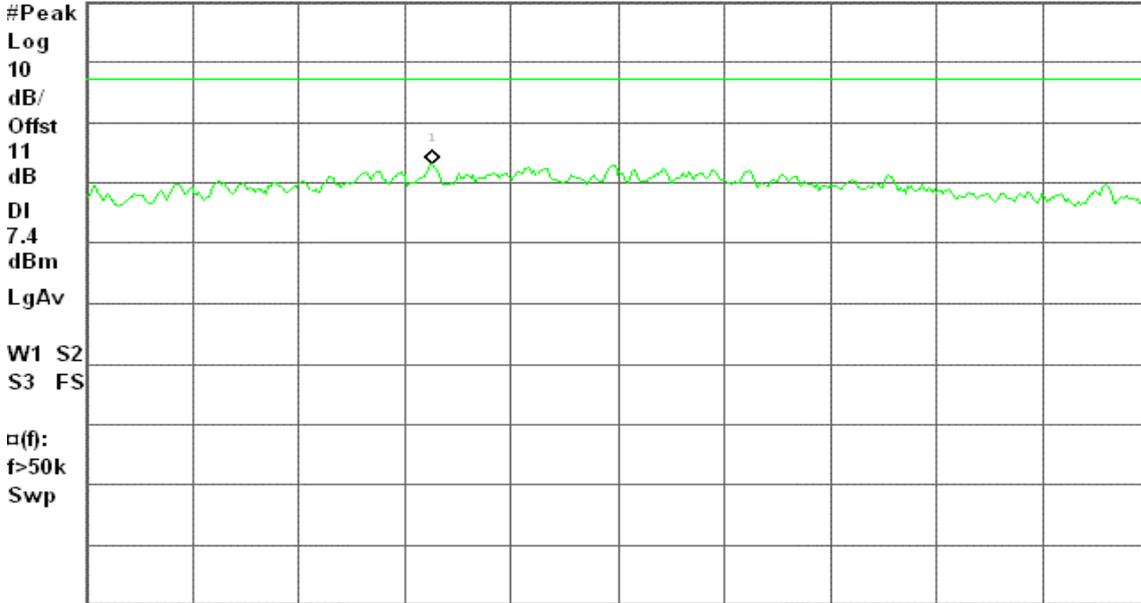
Peak Power Spectral Density, g Mode Mid Ch.

Mkr1 2.442 247 9 GHz

Ref 20 dBm

Atten 20 dB

-6.79 dBm



Center 2.442 300 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

CH High

Agilent 13:43:09 Nov 30, 2005

R L

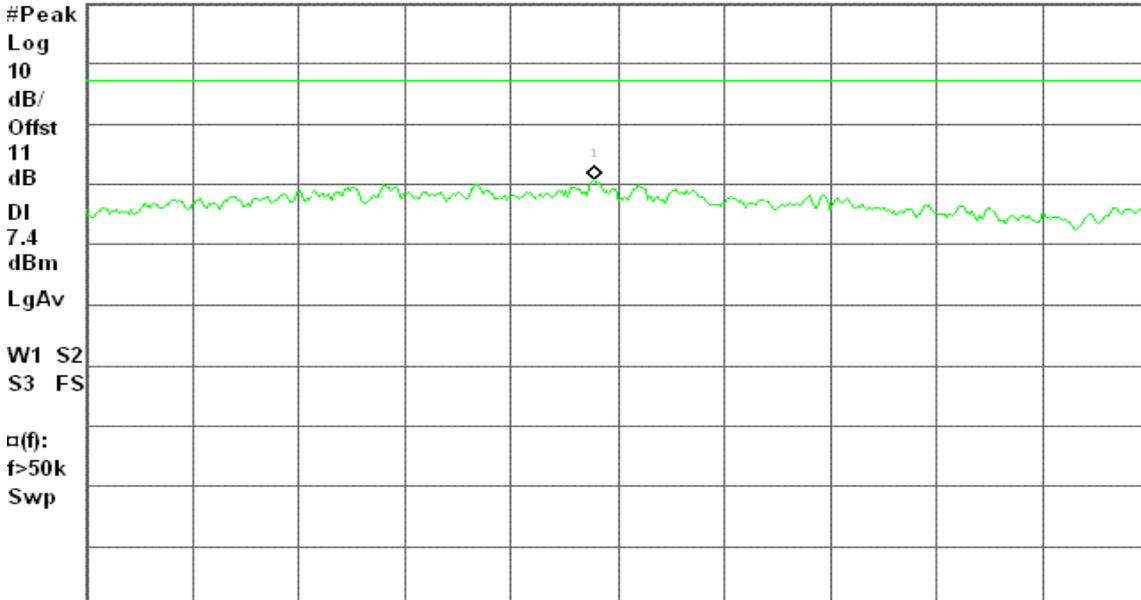
Peak Power Spectral Density, g Mode High Ch.

Mkr1 2.466 693 0 GHz

Ref 20 dBm

Atten 20 dB

-9.29 dBm



Center 2.466 700 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

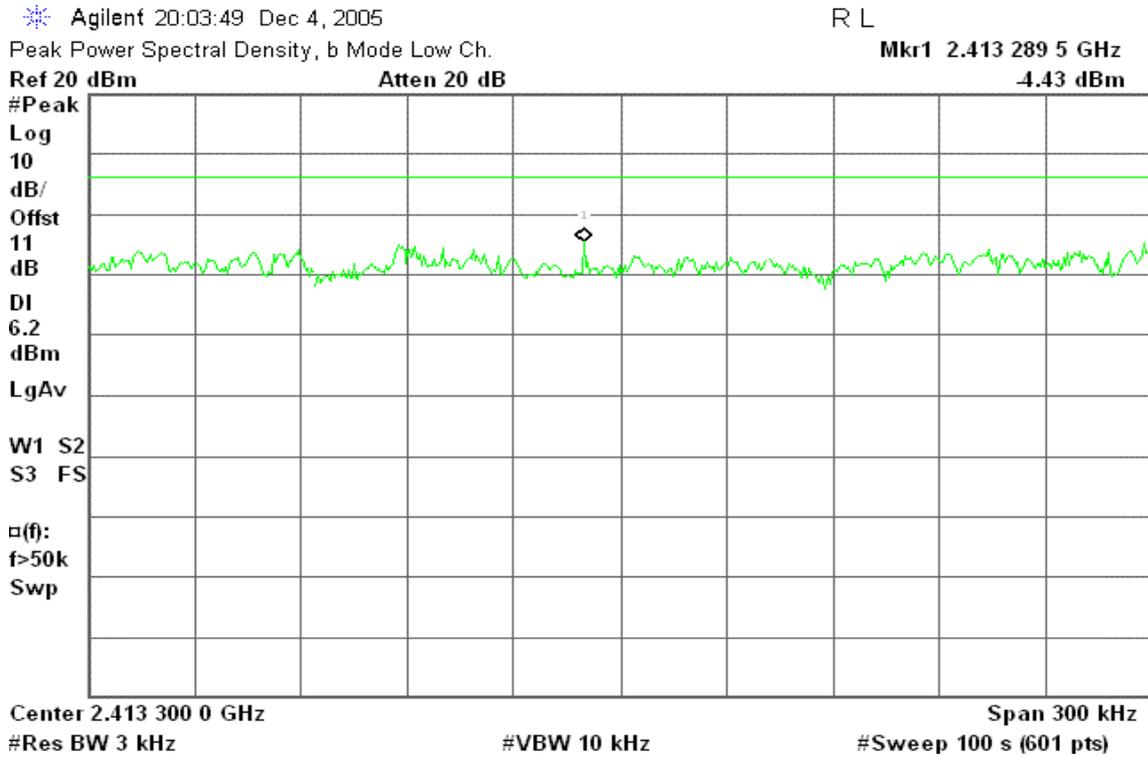
#Sweep 100 s (601 pts)



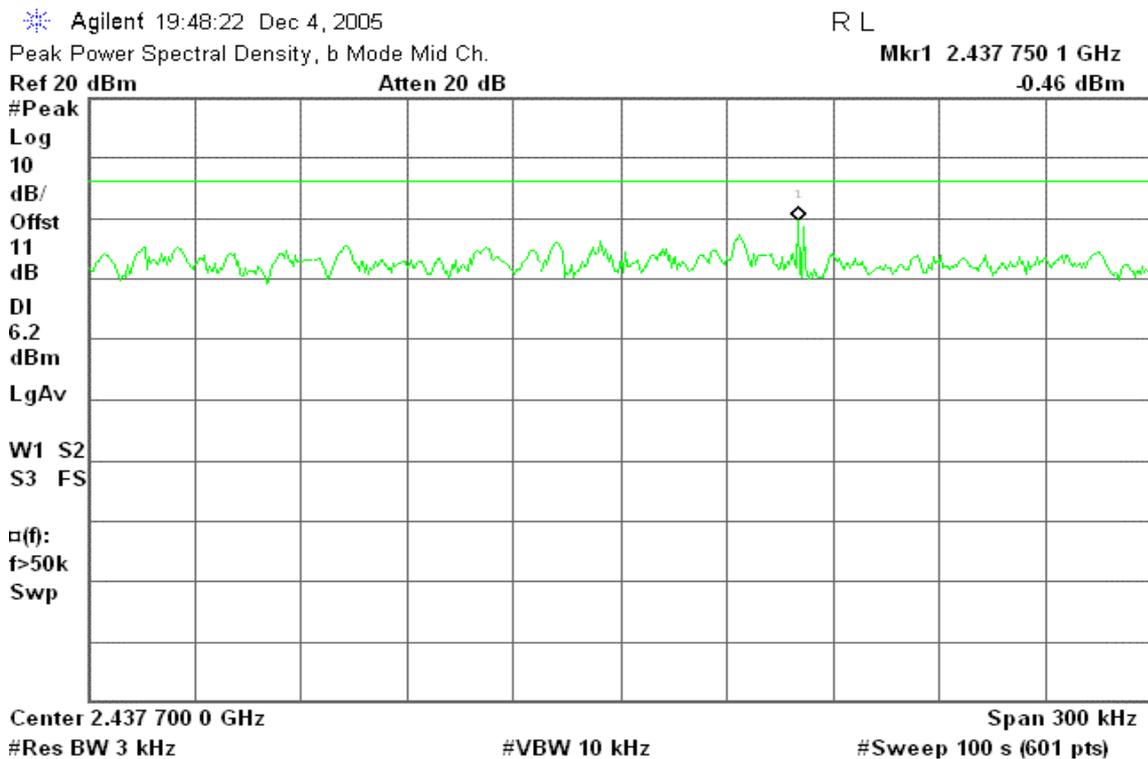
Mode 3: Antenna 3+ Module 1

IEEE 802.11b

CH Low



CH Mid





CH High

Agilent 19:34:00 Dec 4, 2005

R L

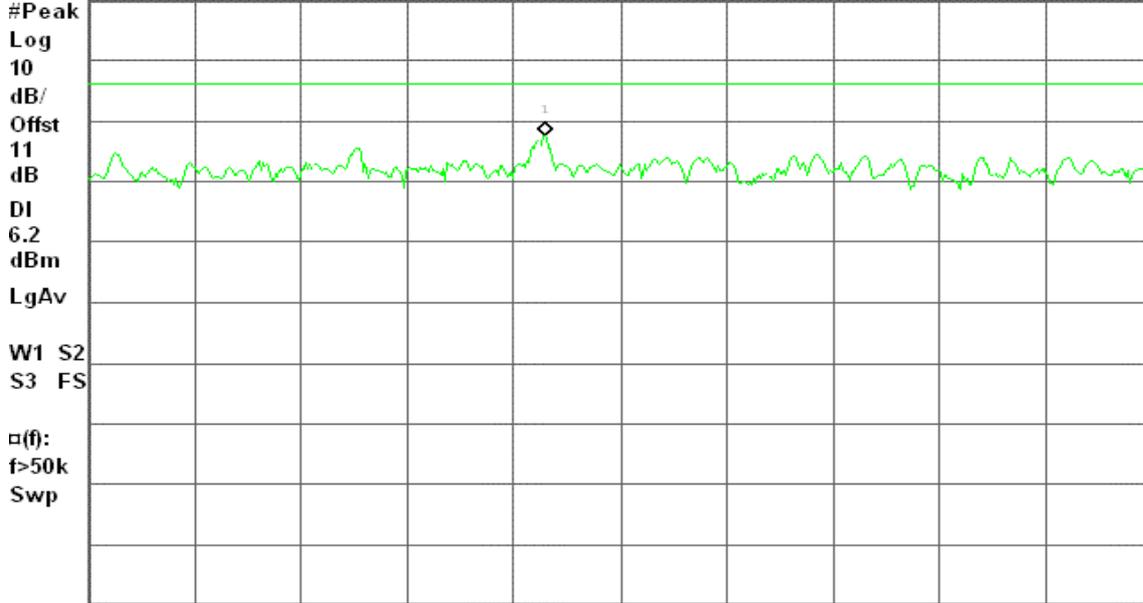
Peak Power Spectral Density, b Mode High Ch.

Mkr1 2.461 978 9 GHz

Ref 20 dBm

Atten 20 dB

-2.49 dBm



Center 2.462 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

IEEE 802.11g

CH Low

Agilent 20:44:11 Dec 4, 2005

R L

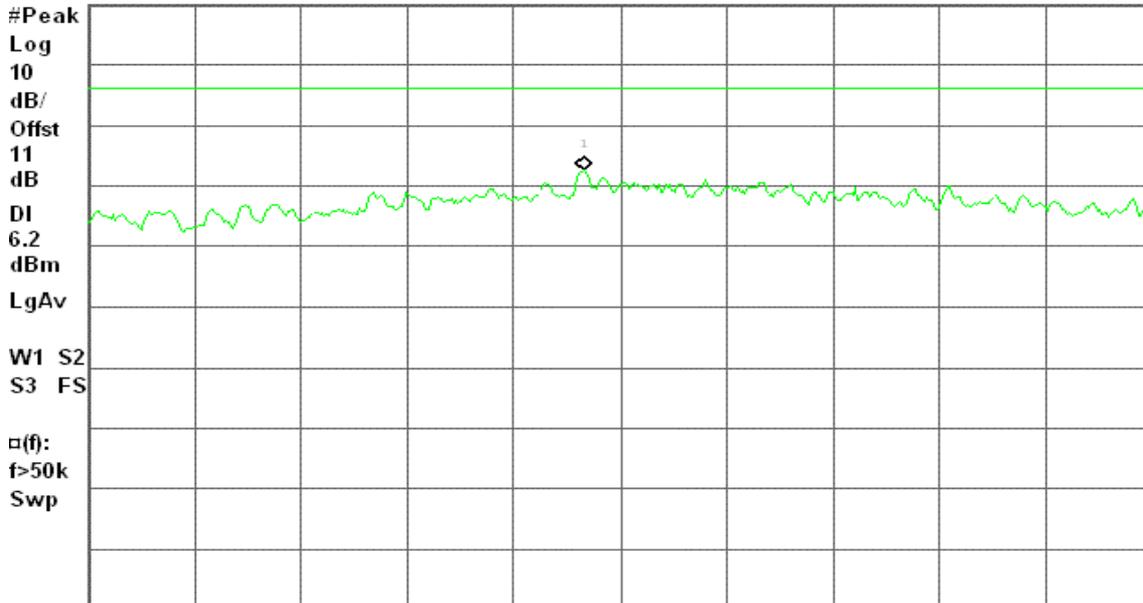
Peak Power Spectral Density, g Mode Low Ch.

Mkr1 2.405 689 5 GHz

Ref 20 dBm

Atten 20 dB

-7.46 dBm



Center 2.405 700 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



CH Mid

Agilent 20:51:22 Dec 4, 2005

R L

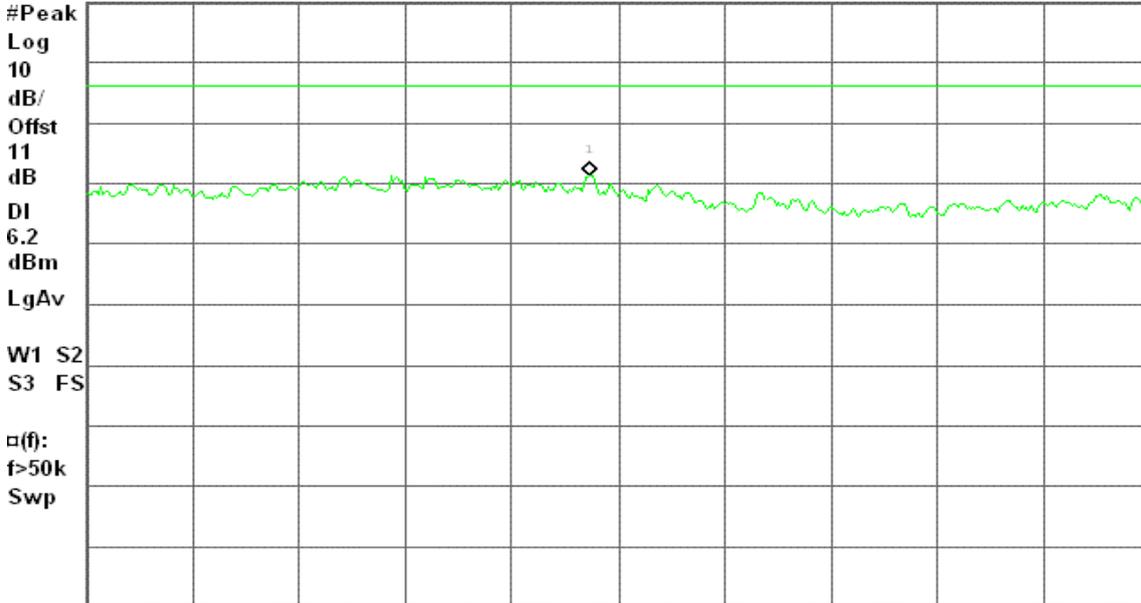
Peak Power Spectral Density, g Mode Mid Ch.

Mkr1 2.438 291 5 GHz

Ref 20 dBm

Atten 20 dB

-8.63 dBm



Center 2.438 300 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

CH High

Agilent 20:57:35 Dec 4, 2005

R L

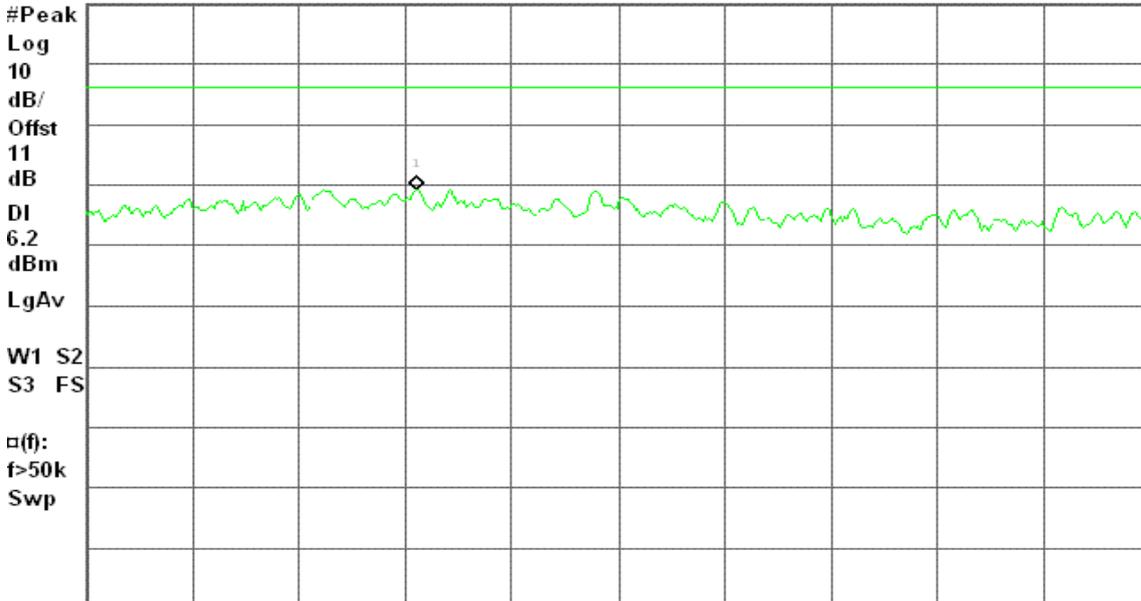
Peak Power Spectral Density, g Mode High Ch.

Mkr1 2.454 793 2 GHz

Ref 20 dBm

Atten 20 dB

-10.75 dBm



Center 2.454 850 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

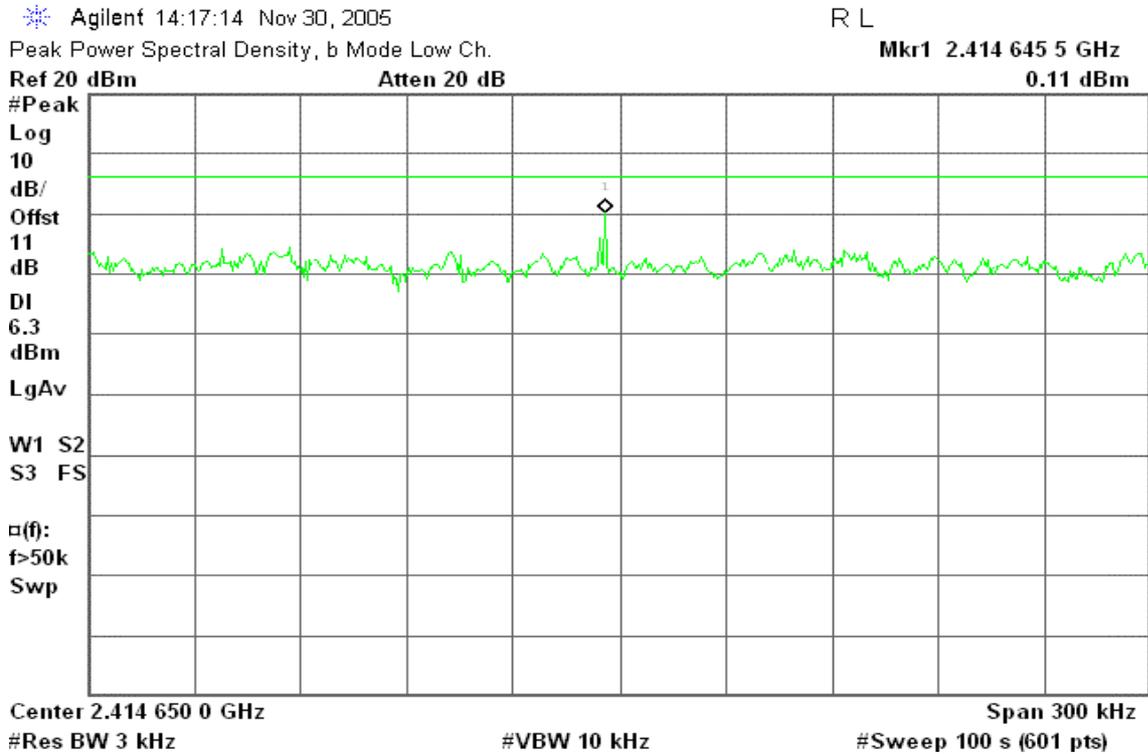
#Sweep 100 s (601 pts)



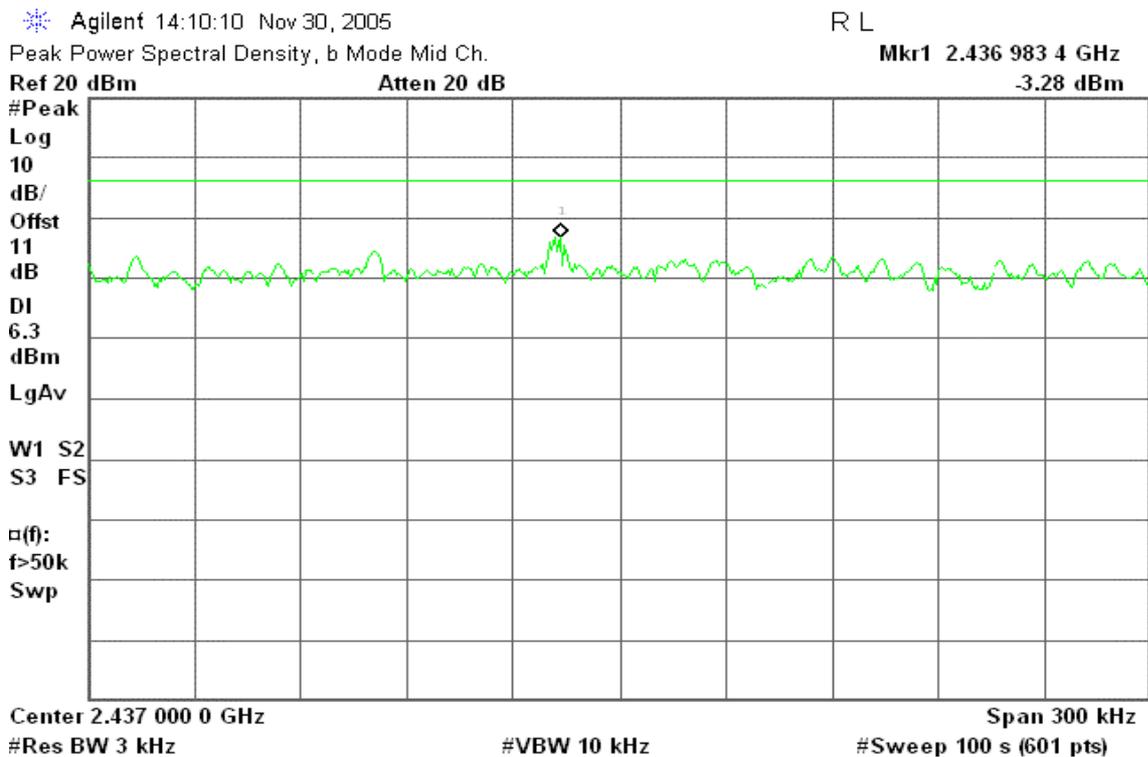
Mode 4: Antenna 3+ Module 2

IEEE 802.11b

CH Low



CH Mid





CH High

Agilent 13:55:15 Nov 30, 2005

R L

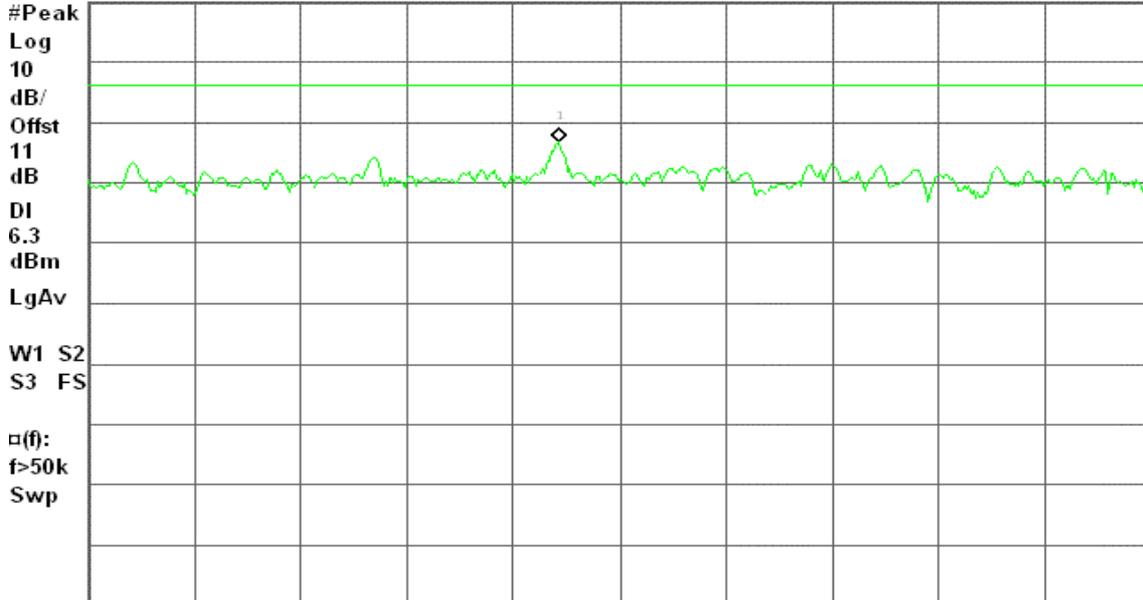
Peak Power Spectral Density, b Mode High Ch.

Mkr1 2.461 982 9 GHz

Ref 20 dBm

Atten 20 dB

-3.30 dBm



Center 2.462 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

IEEE 802.11g

CH Low

Agilent 16:50:31 Nov 30, 2005

R L

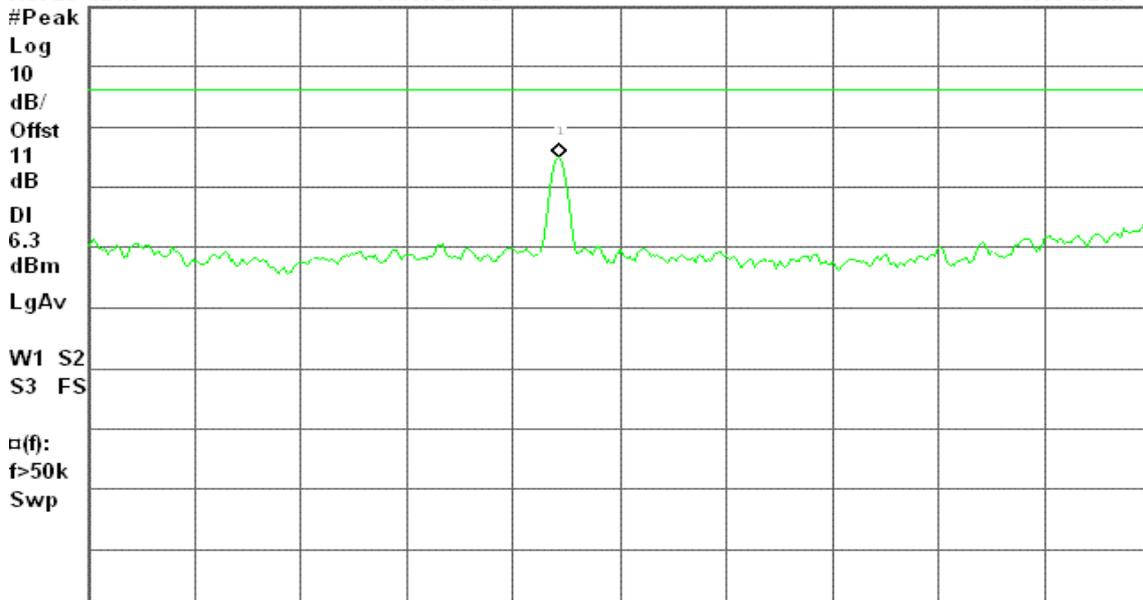
Peak Power Spectral Density, g Mode Low Ch.

Mkr1 2.411 982 9 GHz

Ref 20 dBm

Atten 20 dB

-5.08 dBm



Center 2.412 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



CH Mid

Agilent 17:08:57 Nov 30, 2005

R L

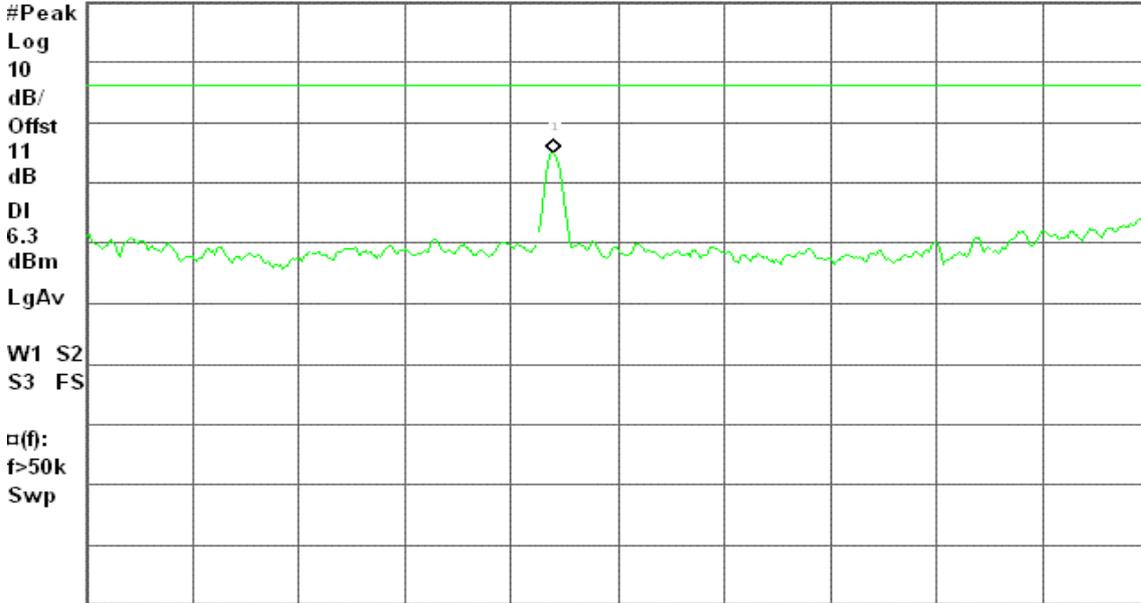
Peak Power Spectral Density, g Mode Mid Ch.

Mkr1 2.436 981 9 GHz

Ref 20 dBm

Atten 20 dB

-4.94 dBm



Center 2.437 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

CH High

Agilent 17:49:06 Nov 30, 2005

R L

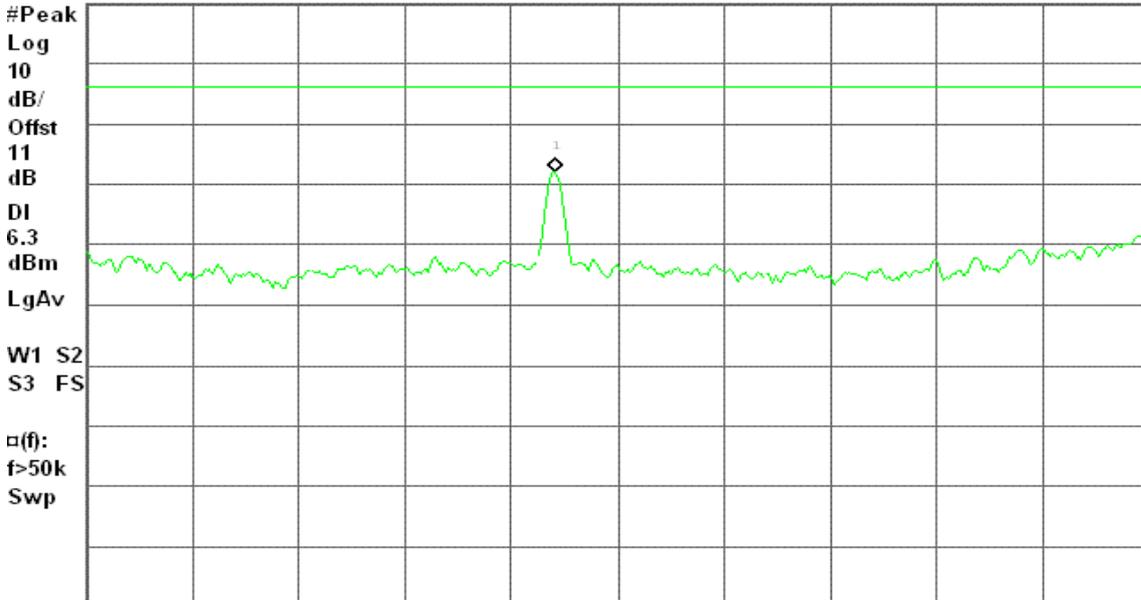
Peak Power Spectral Density, g Mode High Ch.

Mkr1 2.461 982 4 GHz

Ref 20 dBm

Atten 20 dB

-7.93 dBm



Center 2.462 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



Mode 5: Antenna 4+ Module 1

IEEE 802.11b

CH Low

Agilent 19:07:37 Dec 4, 2005

R L

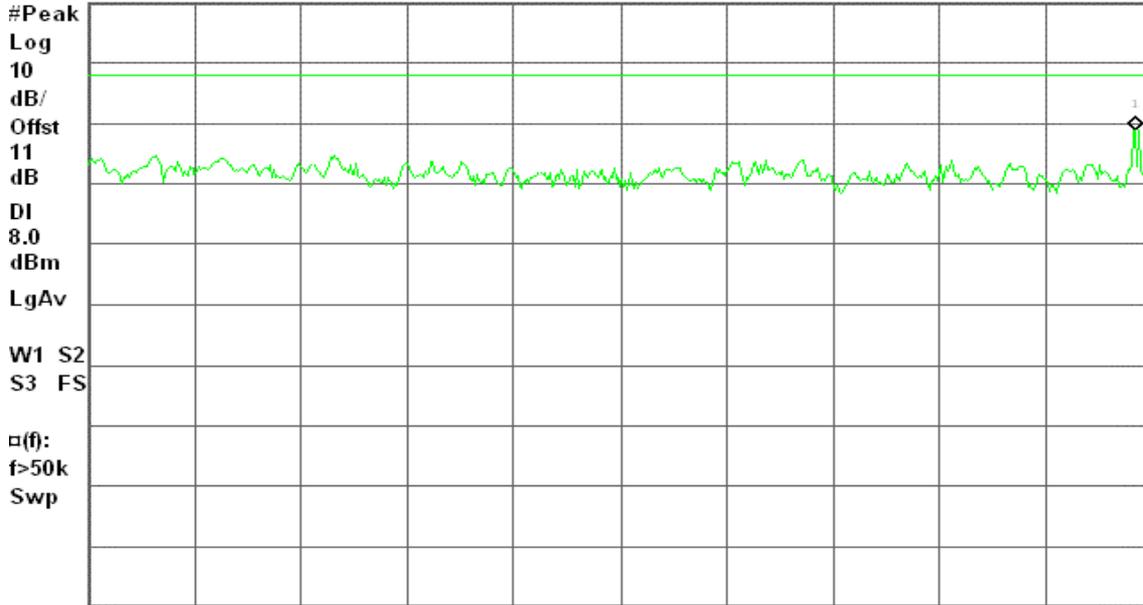
Peak Power Spectral Density, b Mode Low Ch.

Mkr1 2.416 295 5 GHz

Ref 20 dBm

Atten 20 dB

-1.12 dBm



Center 2.416 150 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

CH Mid

Agilent 19:15:07 Dec 4, 2005

R L

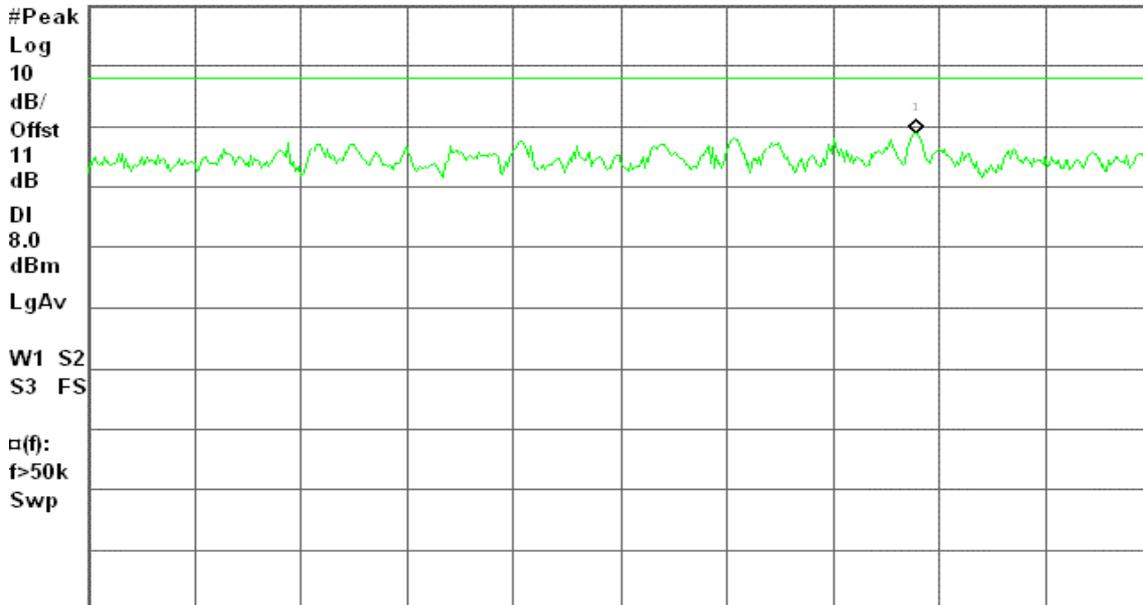
Peak Power Spectral Density, b Mode Mid Ch.

Mkr1 2.437 733 7 GHz

Ref 20 dBm

Atten 20 dB

-1.12 dBm



Center 2.437 650 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



CH High

Agilent 19:22:42 Dec 4, 2005

R L

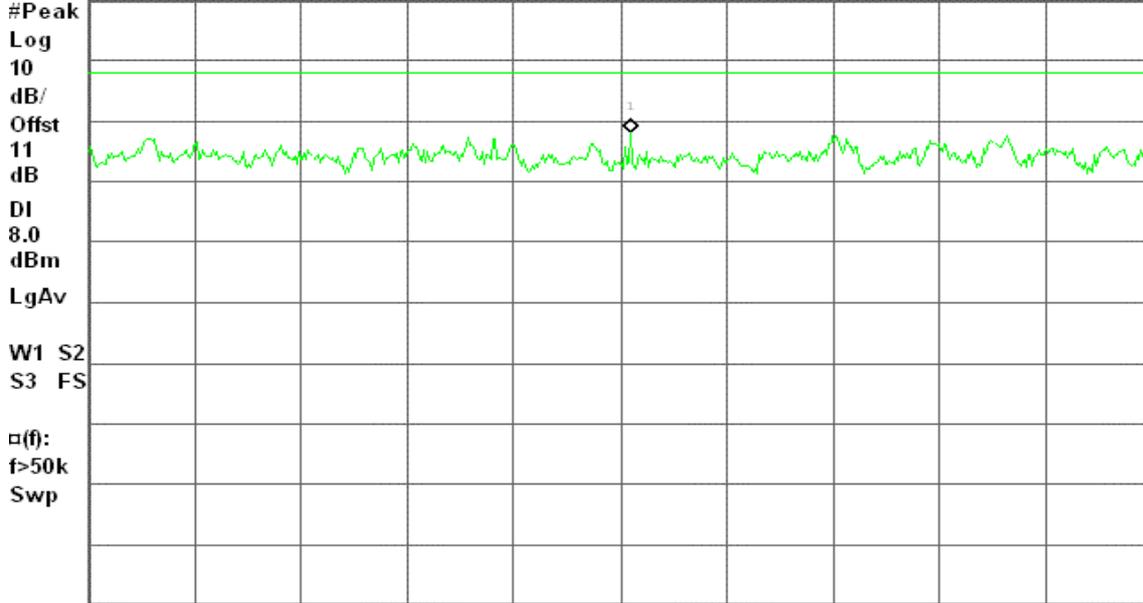
Peak Power Spectral Density, b Mode High Ch.

Mkr1 2.461 203 0 GHz

Ref 20 dBm

Atten 20 dB

-1.87 dBm



Center 2.461 200 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

IEEE 802.11g

CH Low

Agilent 21:26:32 Dec 4, 2005

R L

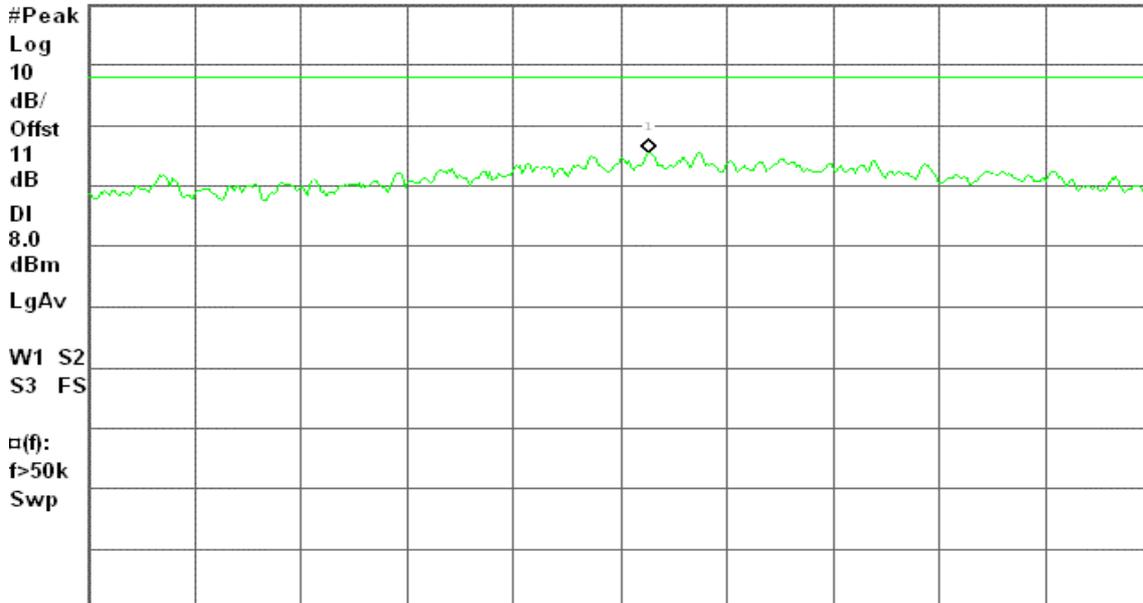
Peak Power Spectral Density, g Mode Low Ch.

Mkr1 2.406 958 0 GHz

Ref 20 dBm

Atten 20 dB

-4.49 dBm



Center 2.406 950 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



CH Mid

Agilent 21:18:21 Dec 4, 2005

R L

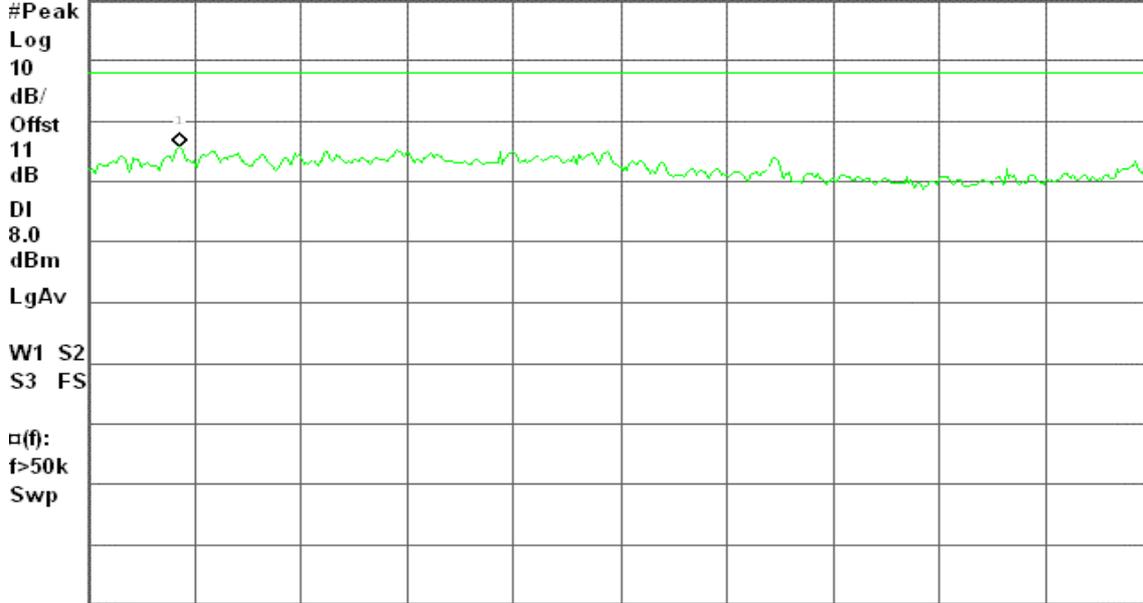
Peak Power Spectral Density, g Mode Mid Ch.

Mkr1 2.433 174 6 GHz

Ref 20 dBm

Atten 20 dB

-4.37 dBm



Center 2.433 300 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

CH High

Agilent 21:11:43 Dec 4, 2005

R L

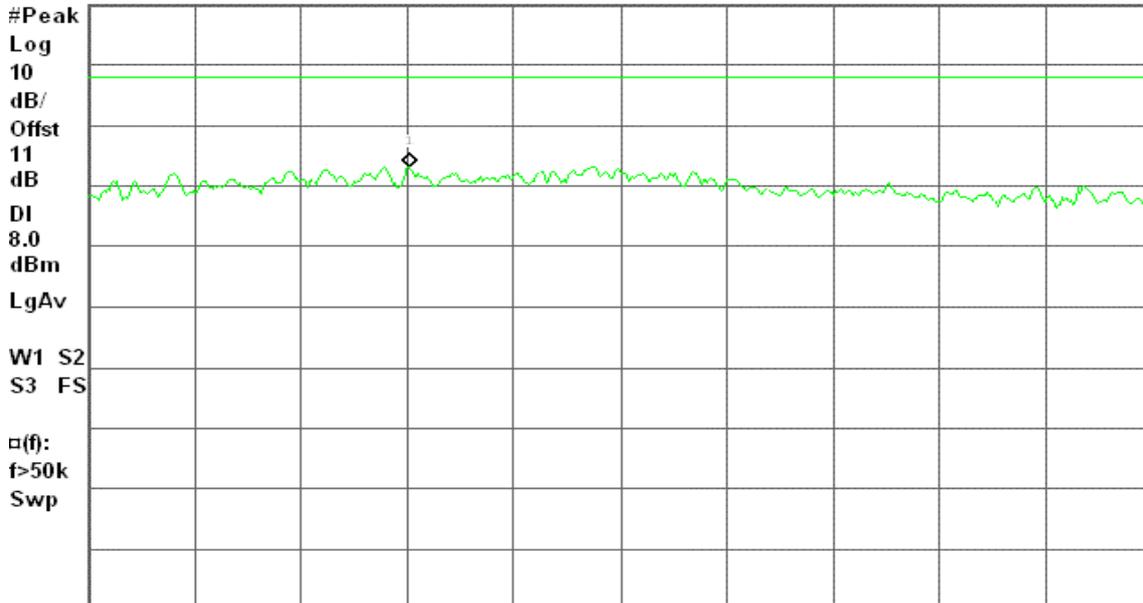
Peak Power Spectral Density, g Mode High Ch.

Mkr1 2.454 140 7 GHz

Ref 20 dBm

Atten 20 dB

-6.86 dBm



Center 2.454 200 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

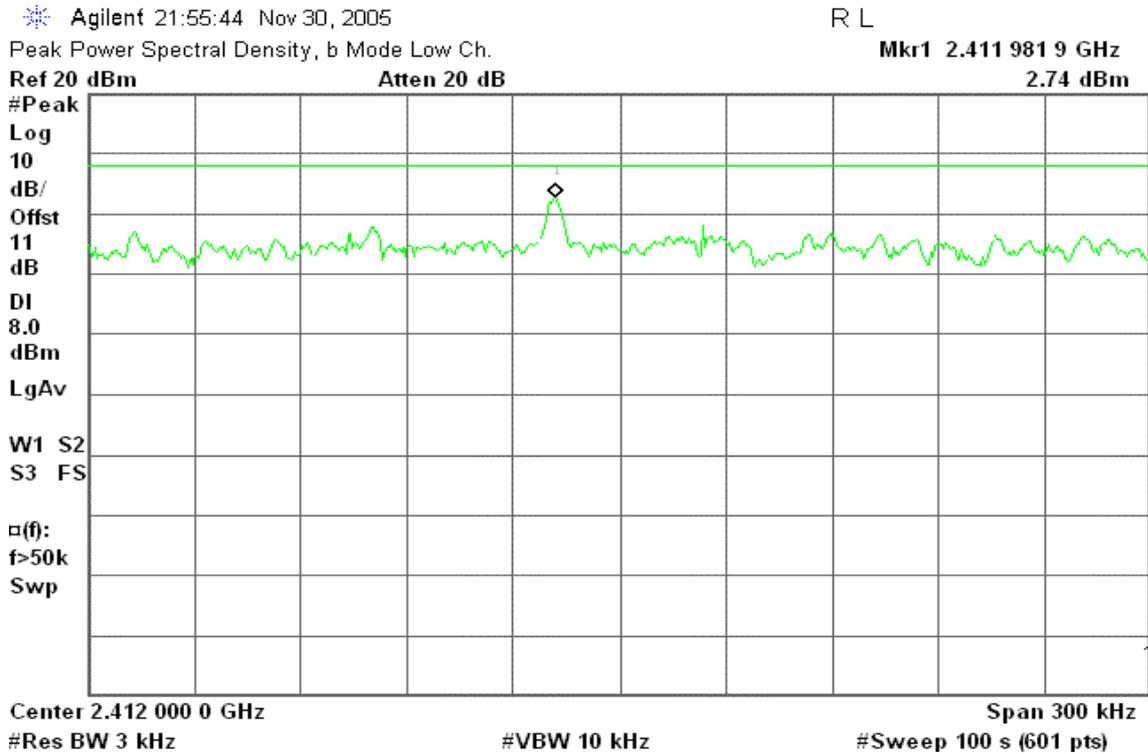
#Sweep 100 s (601 pts)



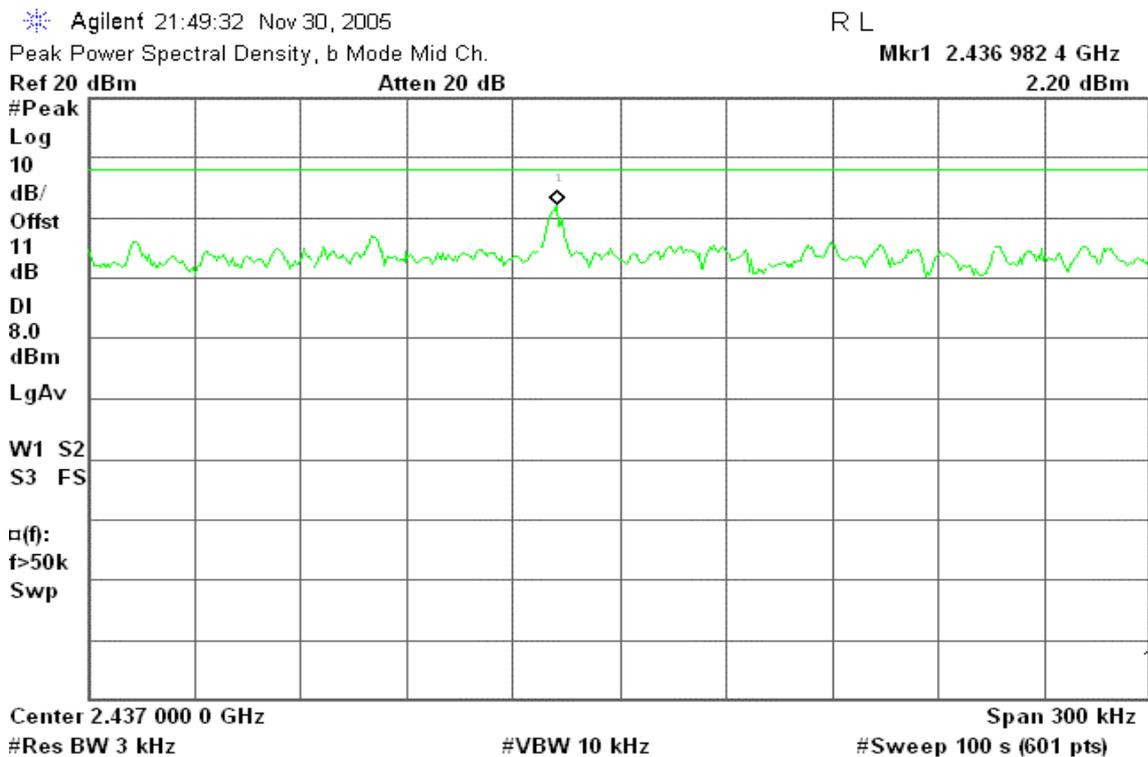
Mode 6: Antenna 4+ Module 2

IEEE 802.11b

CH Low



CH Mid





CH High

Agilent 21:44:54 Nov 30, 2005

R L

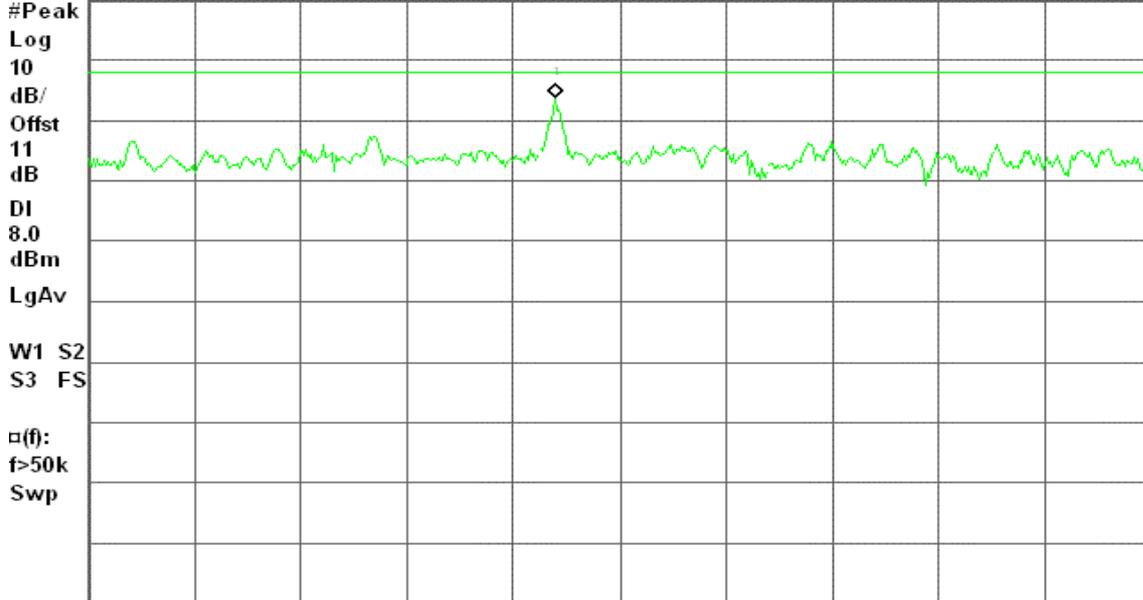
Peak Power Spectral Density, b Mode High Ch.

Mkr1 2.461 981 9 GHz

Ref 20 dBm

Atten 20 dB

3.74 dBm



Center 2.462 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

IEEE 802.11g

CH Low

Agilent 21:09:55 Nov 30, 2005

R L

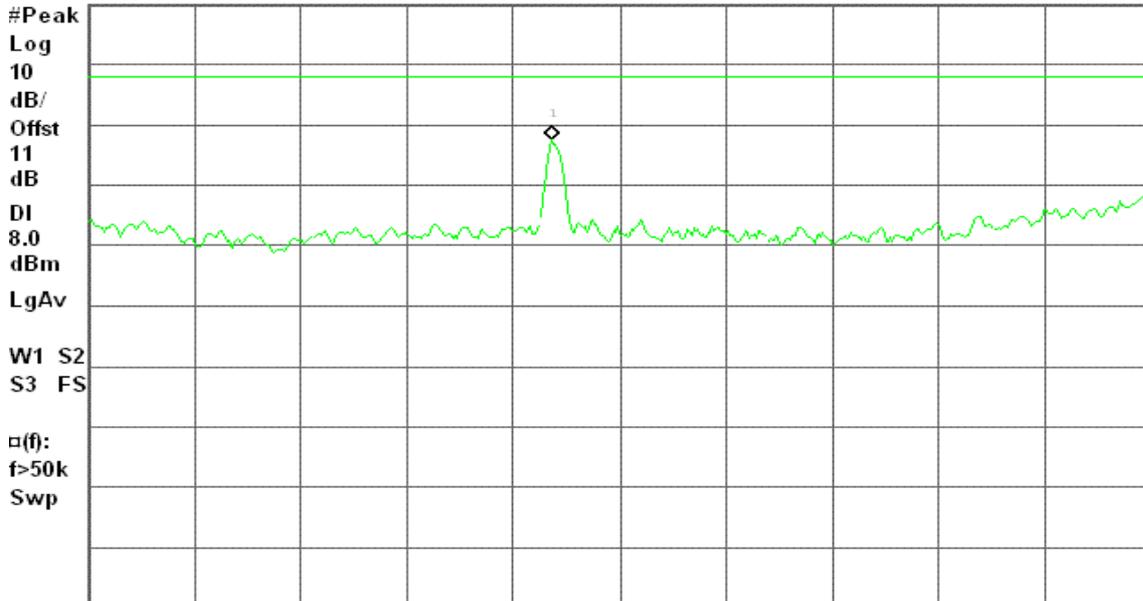
Peak Power Spectral Density, g Mode Low Ch.

Mkr1 2.411 980 9 GHz

Ref 20 dBm

Atten 20 dB

-2.55 dBm



Center 2.412 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



CH Mid

Agilent 21:14:39 Nov 30, 2005

R L

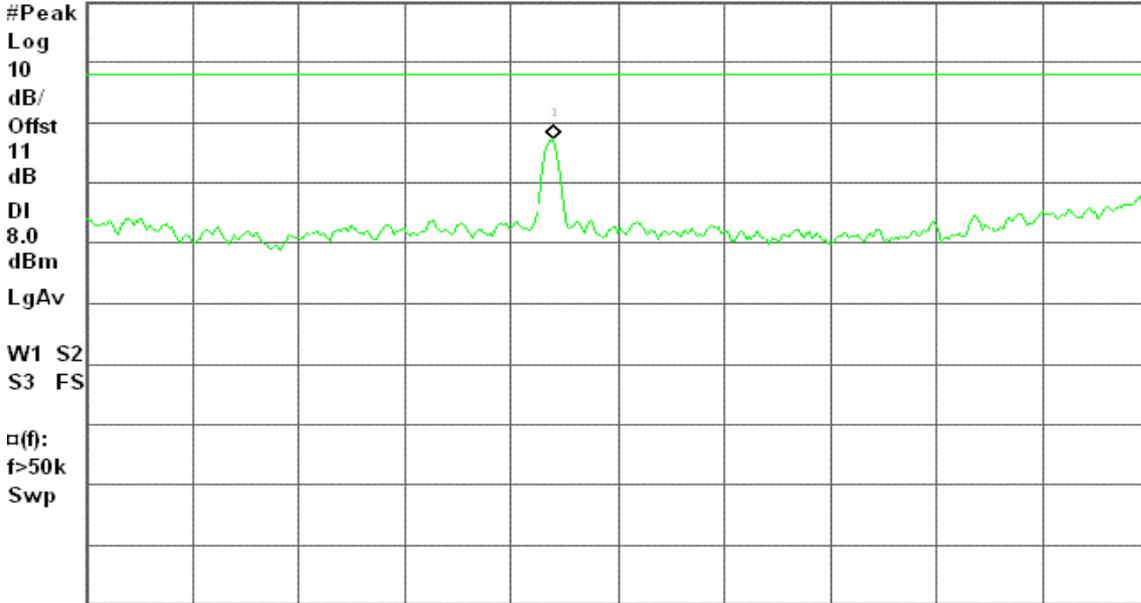
Peak Power Spectral Density, g Mode Mid Ch.

Mkr1 2.436 981 9 GHz

Ref 20 dBm

Atten 20 dB

-2.77 dBm



Center 2.437 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

CH High

Agilent 21:17:57 Nov 30, 2005

R L

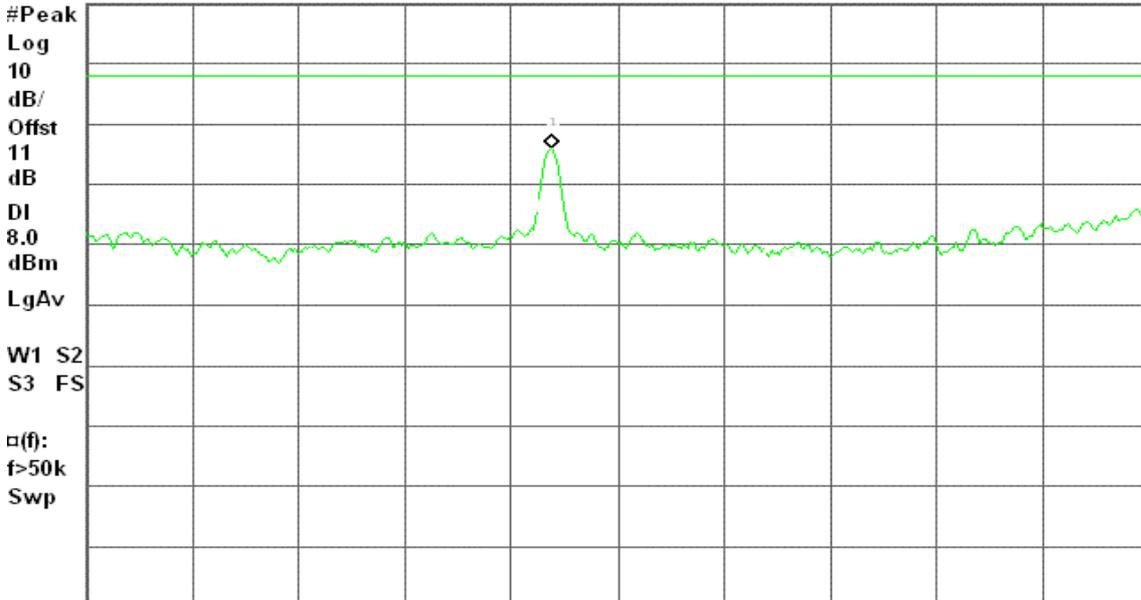
Peak Power Spectral Density, g Mode High Ch.

Mkr1 2.461 981 4 GHz

Ref 20 dBm

Atten 20 dB

-4.05 dBm



Center 2.462 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



IEEE 802.11a

CH Low

Agilent 22:51:49 Nov 30, 2005

R L

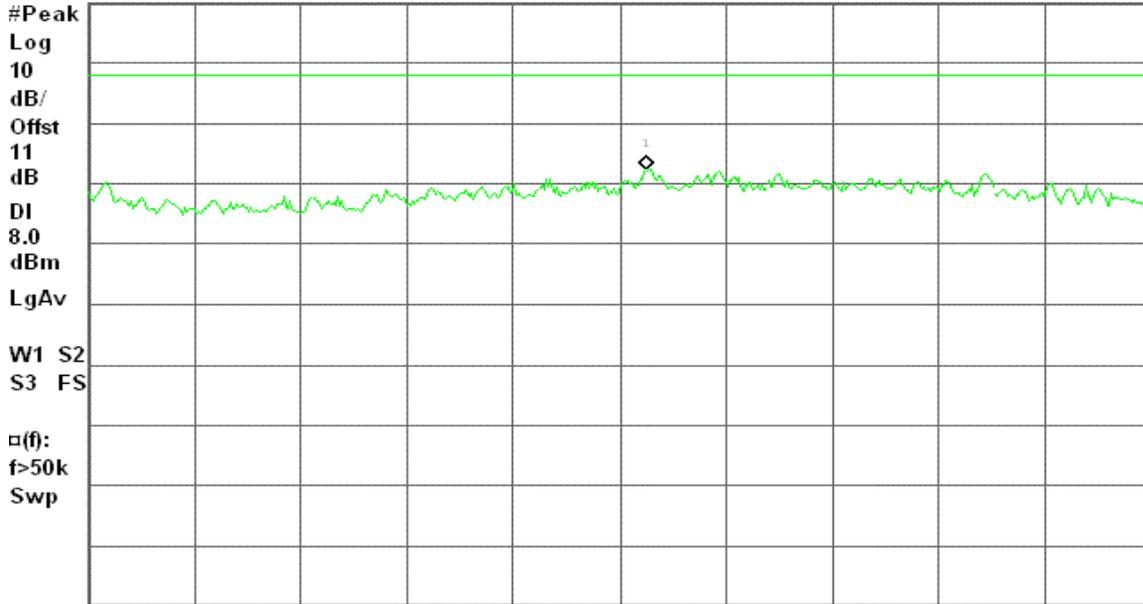
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.743 357 5 GHz

Ref 20 dBm

Atten 20 dB

-7.69 dBm



Center 5.743 350 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

CH Mid

Agilent 22:57:59 Nov 30, 2005

R L

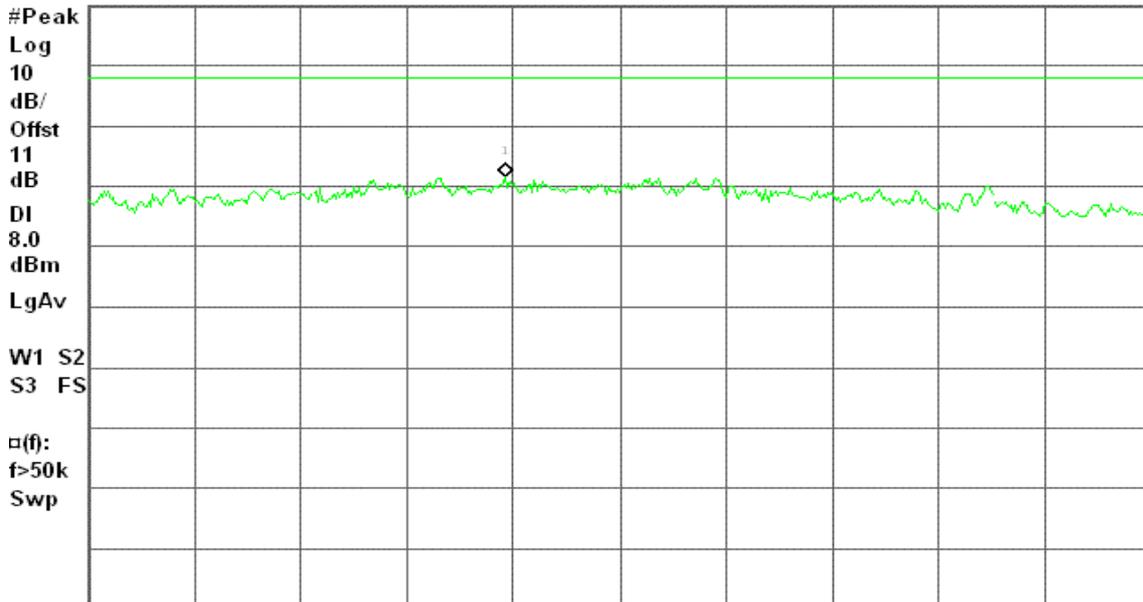
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.783 067 8 GHz

Ref 20 dBm

Atten 20 dB

-8.51 dBm



Center 5.783 100 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



CH High

Agilent 23:05:08 Nov 30, 2005

R L

Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.818 077 9 GHz

Ref 20 dBm

Atten 20 dB

-8.36 dBm

#Peak

Log

10

dB/

Offst

11

dB

DI

8.0

dBm

LgAv

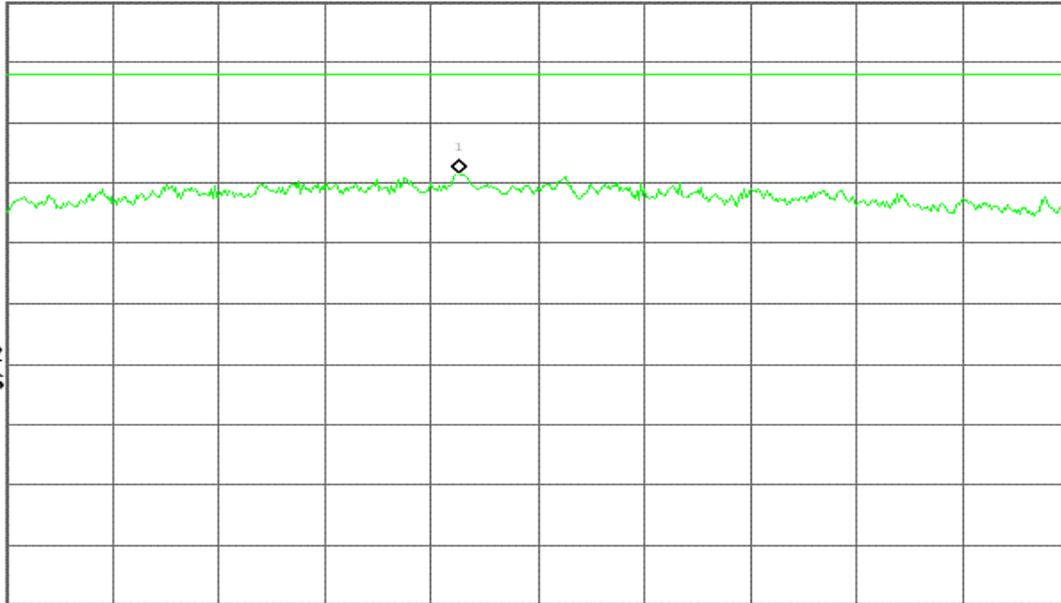
W1 S2

S3 FS

□(f):

f>50k

Swp



Center 5.818 100 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

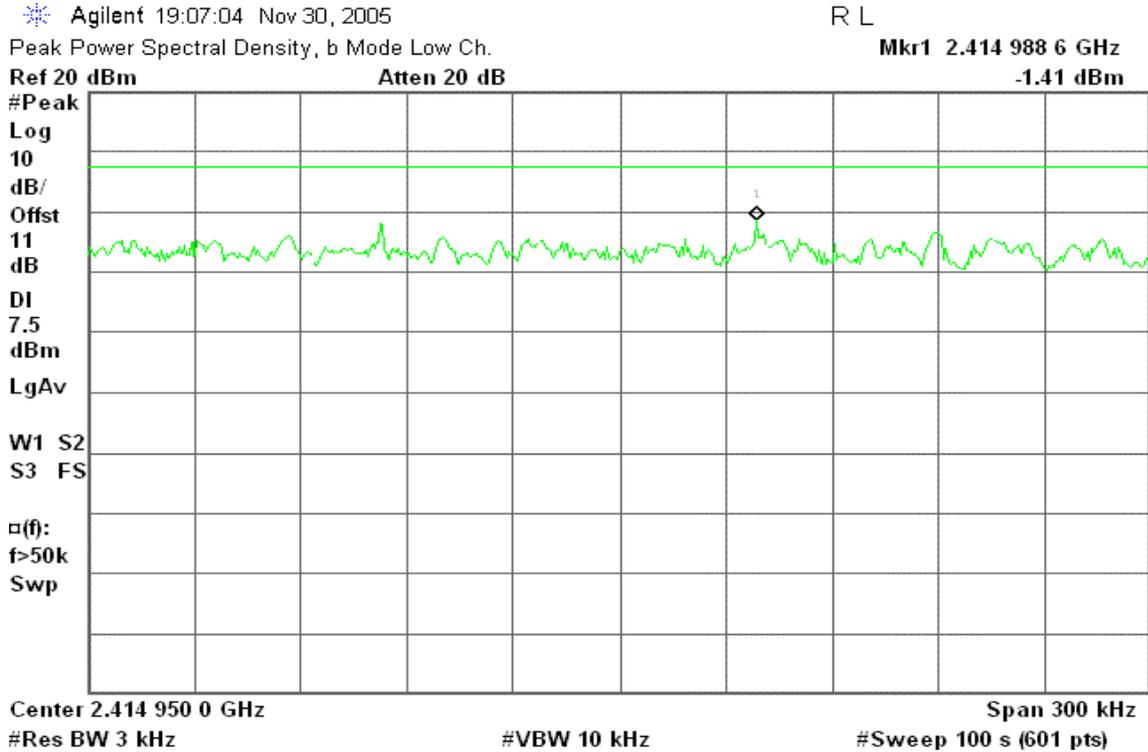
#Sweep 100 s (601 pts)



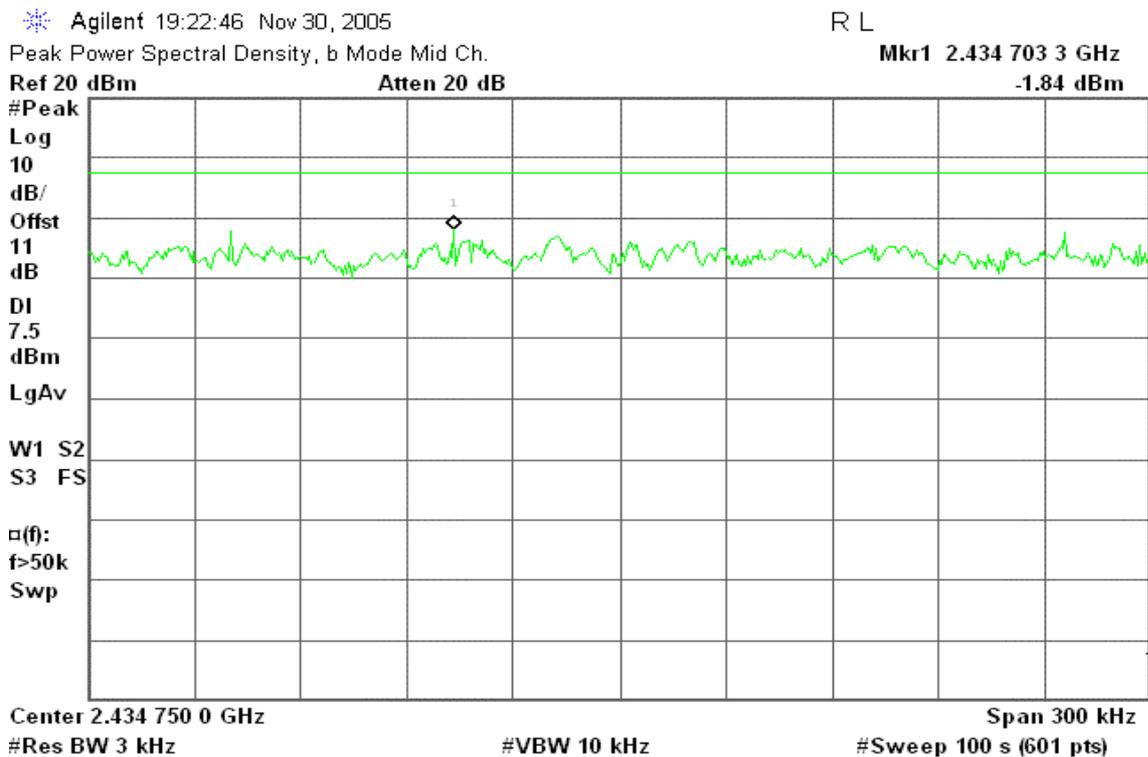
Mode 7: Antenna 5+ Module 1

IEEE 802.11b

CH Low



CH Mid





CH High

Agilent 19:29:56 Nov 30, 2005

R L

Peak Power Spectral Density, b Mode High Ch.

Mkr1 2.461 357 4 GHz

Ref 20 dBm

Atten 20 dB

-1.00 dBm



Center 2.461 450 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

IEEE 802.11g

CH Low

Agilent 18:58:33 Nov 30, 2005

R L

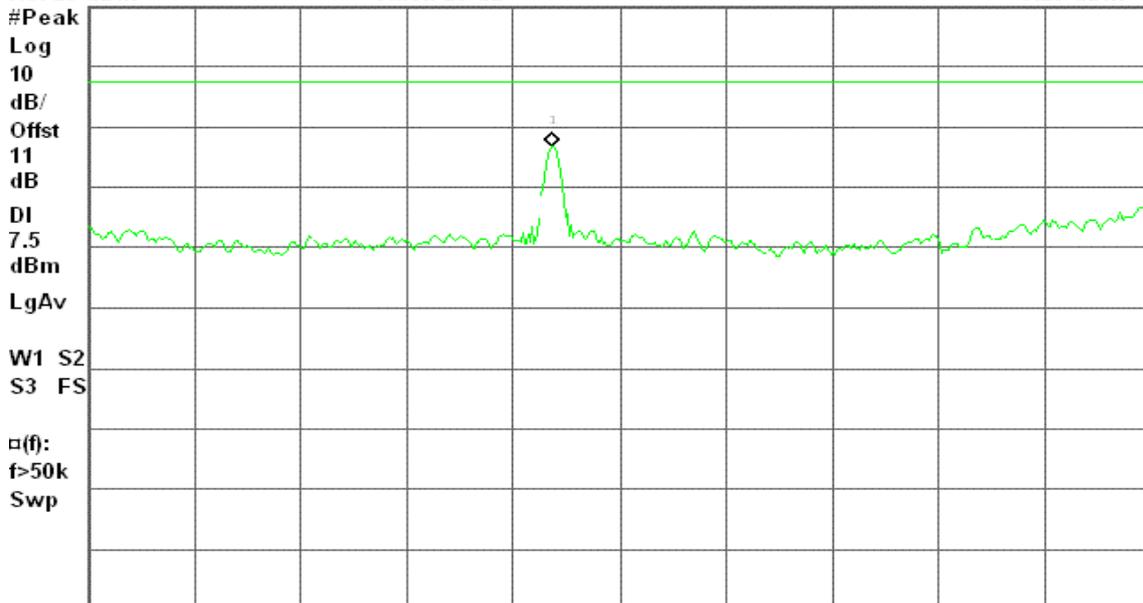
Peak Power Spectral Density, g Mode Low Ch.

Mkr1 2.411 980 9 GHz

Ref 20 dBm

Atten 20 dB

-3.26 dBm



Center 2.412 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



CH Mid

Agilent 18:51:00 Nov 30, 2005

R L

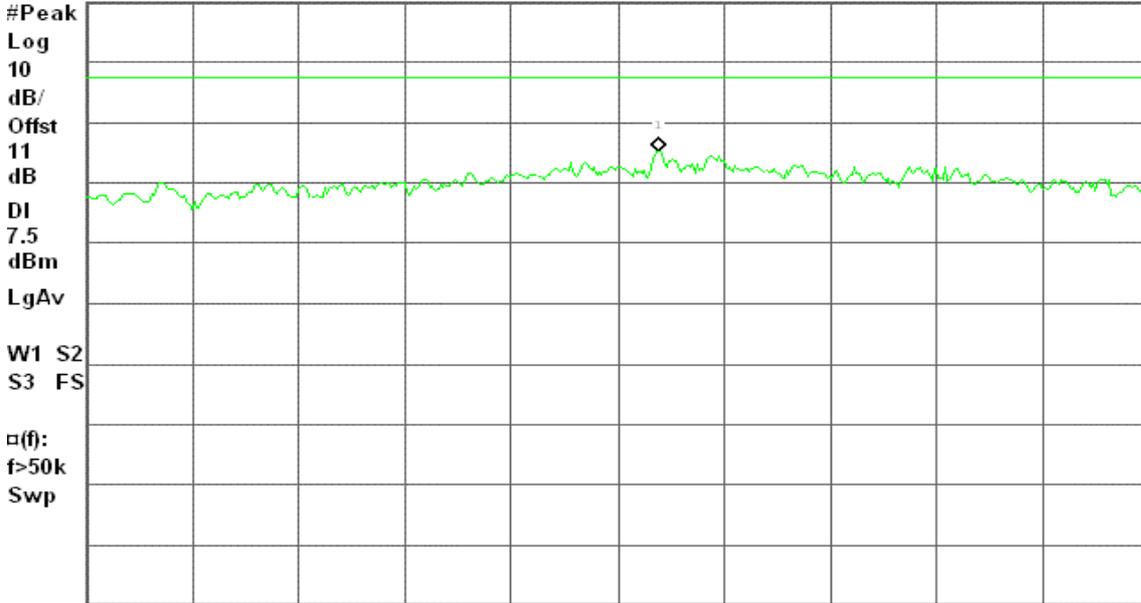
Peak Power Spectral Density, g Mode Mid Ch.

Mkr1 2.439 461 6 GHz

Ref 20 dBm

Atten 20 dB

-4.81 dBm



Center 2.439 450 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

CH High

Agilent 18:39:25 Nov 30, 2005

R L

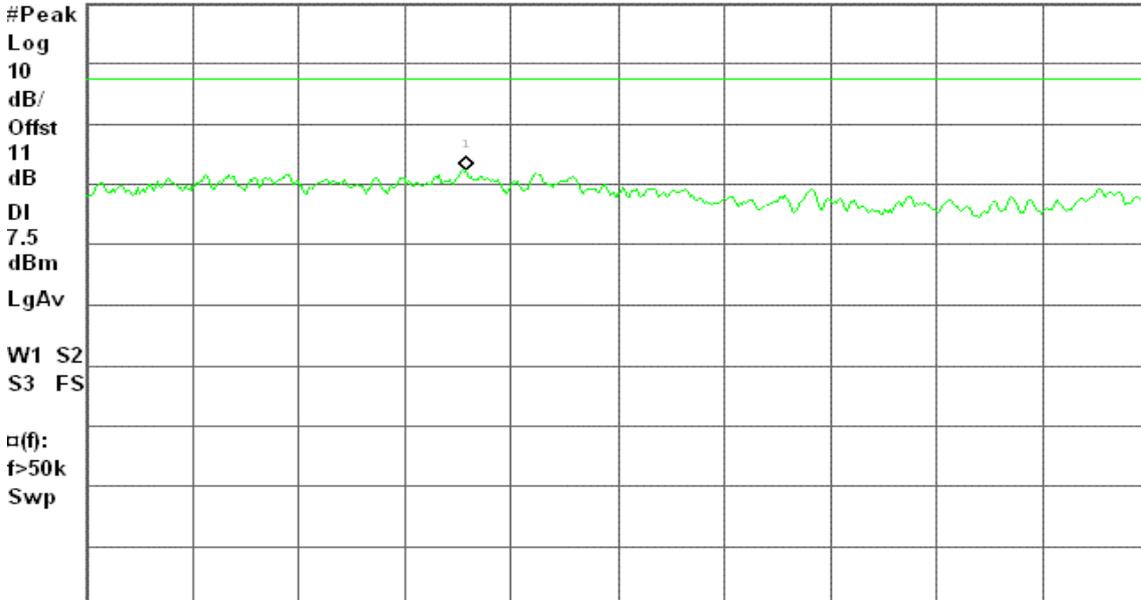
Peak Power Spectral Density, g Mode High Ch.

Mkr1 2.465 757 4 GHz

Ref 20 dBm

Atten 20 dB

-7.71 dBm



Center 2.465 800 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

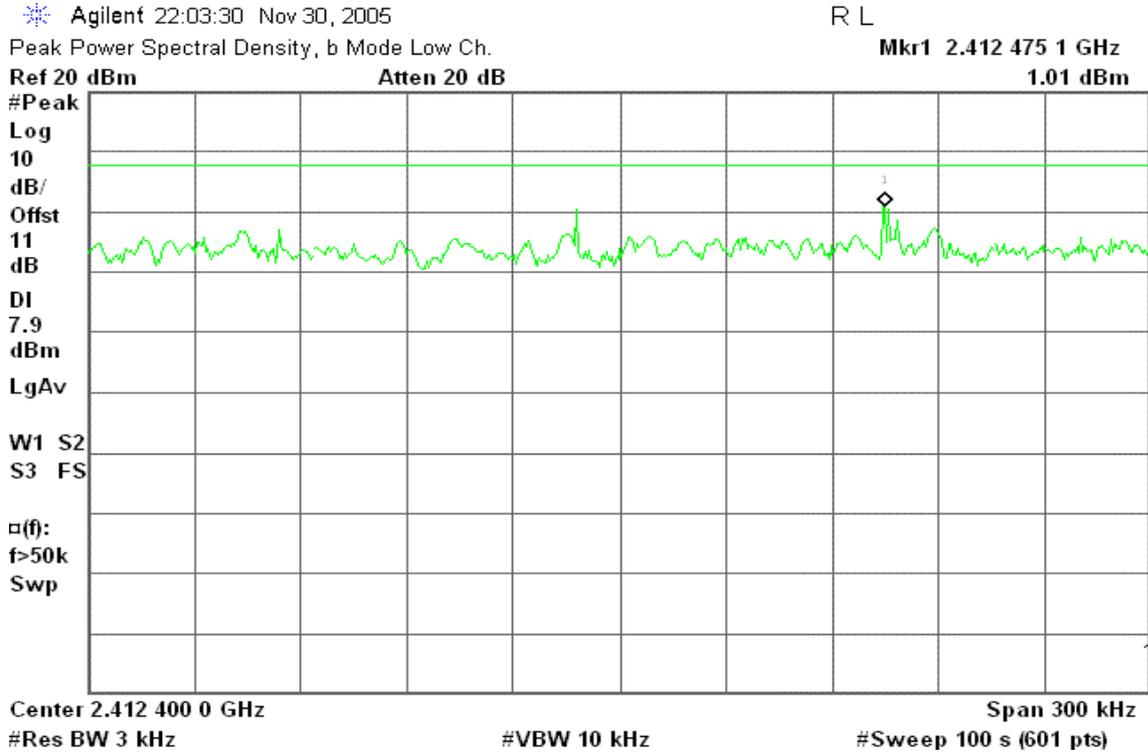
#Sweep 100 s (601 pts)



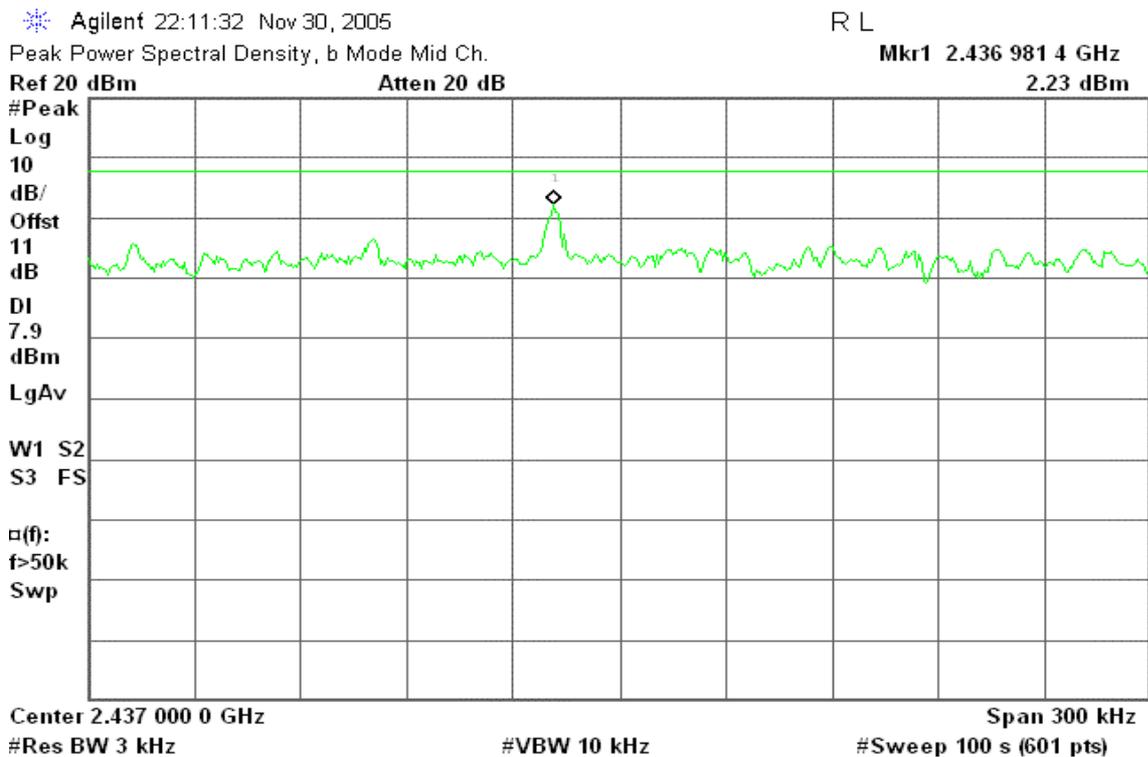
Mode 8: Antenna 5+ Module 2

IEEE 802.11b

CH Low



CH Mid





CH High

Agilent 22:18:47 Nov 30, 2005

R L

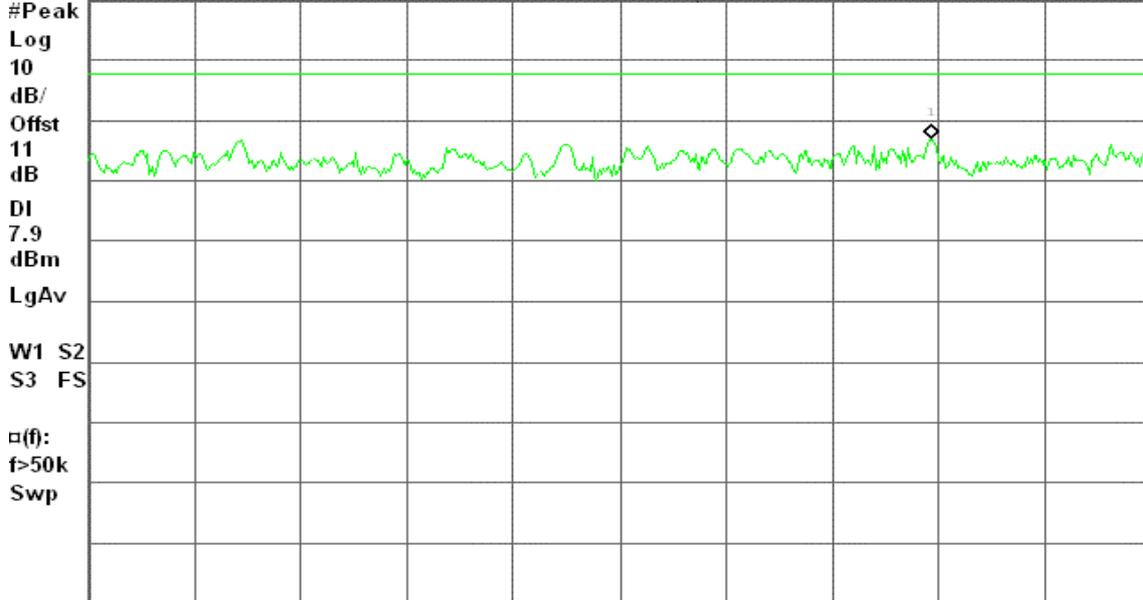
Peak Power Spectral Density, b Mode High Ch.

Mkr1 2.462 488 6 GHz

Ref 20 dBm

Atten 20 dB

-3.11 dBm



Center 2.462 400 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

IEEE 802.11g

CH Low

Agilent 22:43:23 Nov 30, 2005

R L

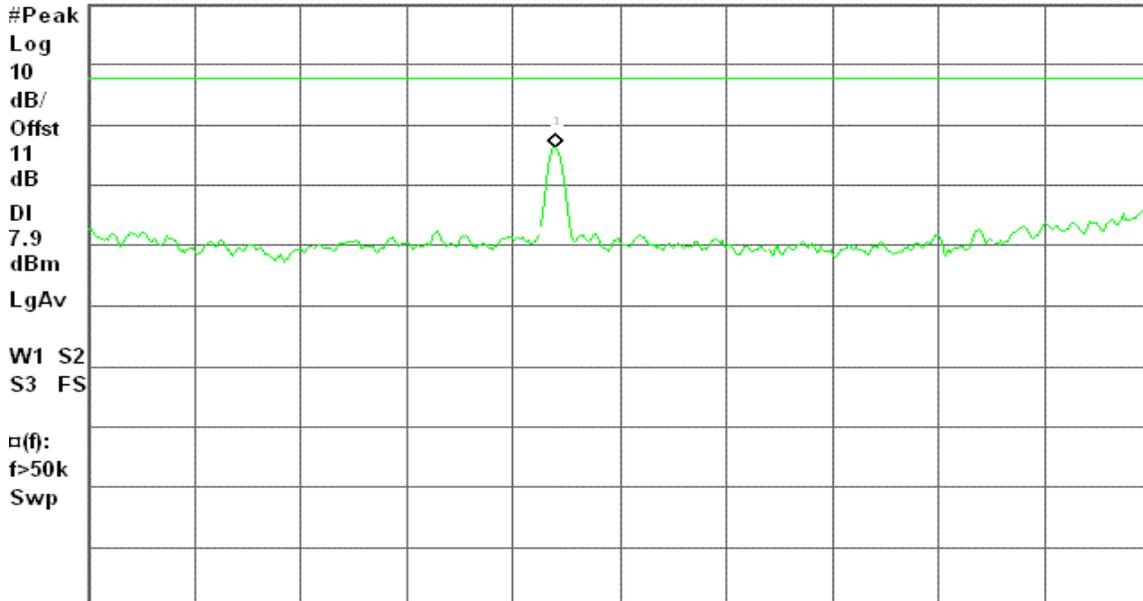
Peak Power Spectral Density, g Mode Low Ch.

Mkr1 2.411 981 9 GHz

Ref 20 dBm

Atten 20 dB

-3.69 dBm



Center 2.412 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



CH Mid

Agilent 22:34:32 Nov 30, 2005

R L

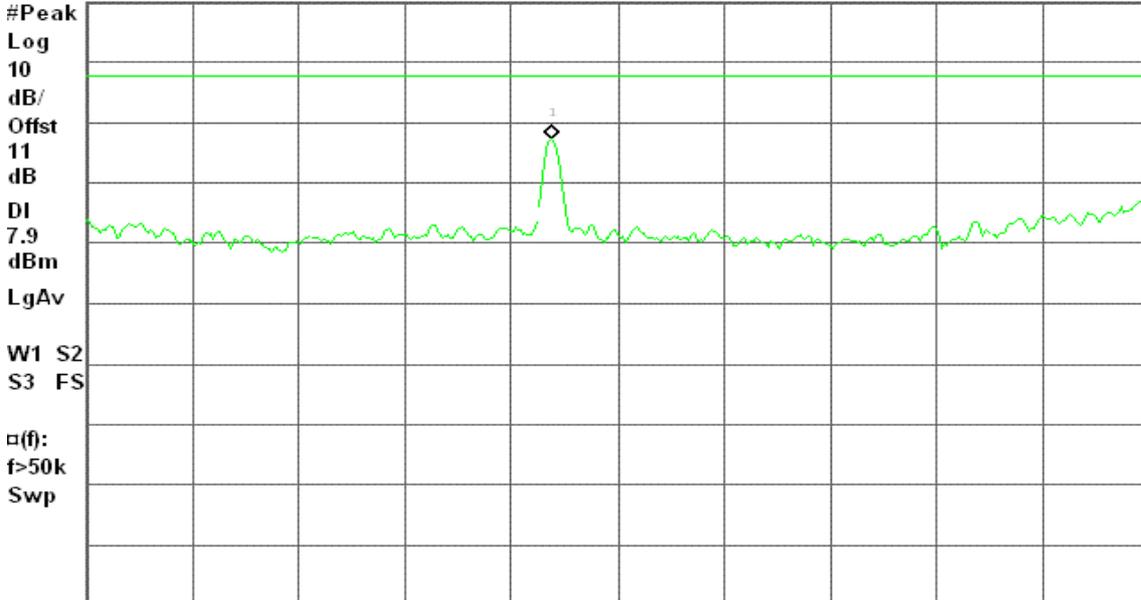
Peak Power Spectral Density, g Mode Mid Ch.

Mkr1 2.436 981 4 GHz

Ref 20 dBm

Atten 20 dB

-2.82 dBm



Center 2.437 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

CH High

Agilent 22:26:45 Nov 30, 2005

R L

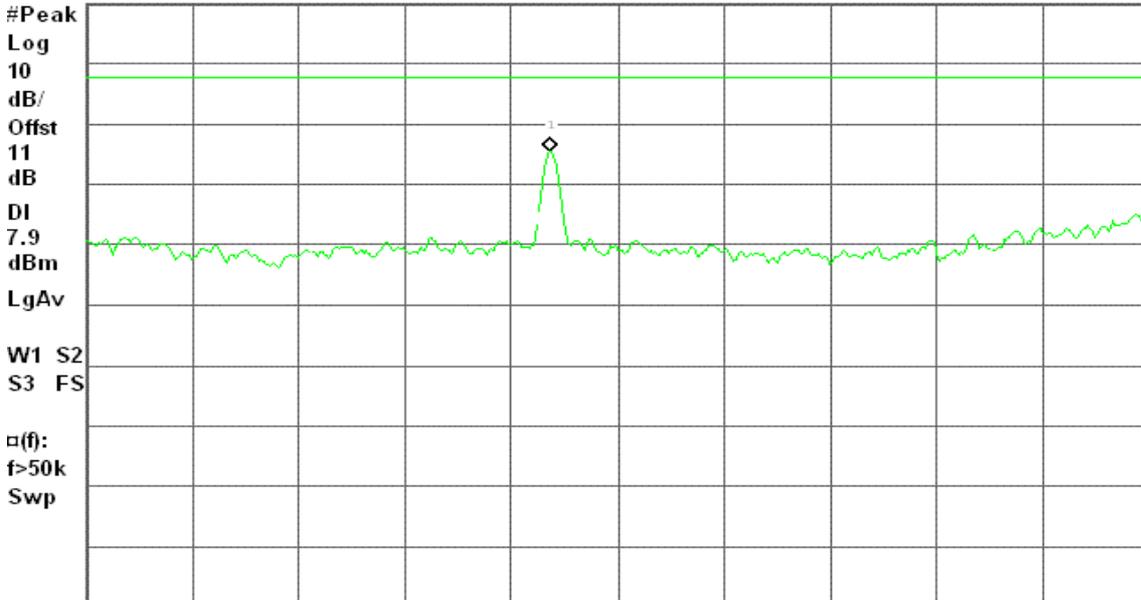
Peak Power Spectral Density, g Mode High Ch.

Mkr1 2.461 980 9 GHz

Ref 20 dBm

Atten 20 dB

-4.60 dBm



Center 2.462 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



IEEE 802.11a

CH Low

Agilent 23:29:57 Nov 30, 2005

R L

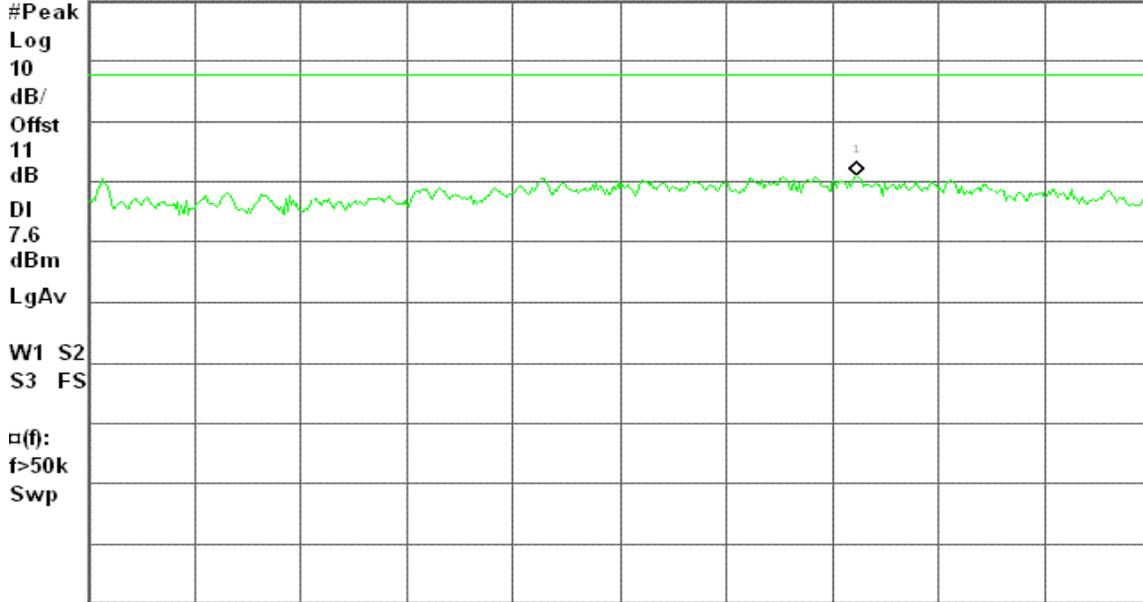
Peak Power Spectral Density, a Mode Low Ch.

Mkr1 5.740 917 2 GHz

Ref 20 dBm

Atten 20 dB

-8.87 dBm



Center 5.740 850 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

CH Mid

Agilent 23:32:54 Nov 30, 2005

R L

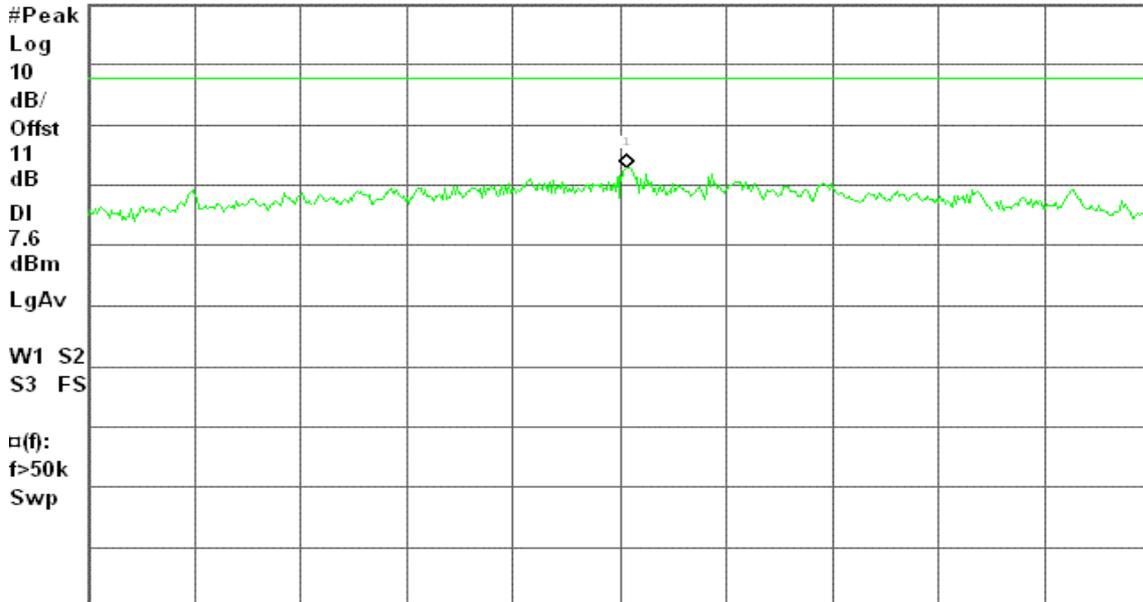
Peak Power Spectral Density, a Mode Mid Ch.

Mkr1 5.779 952 0 GHz

Ref 20 dBm

Atten 20 dB

-7.05 dBm



Center 5.779 950 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



CH High

Agilent 23:14:11 Nov 30, 2005

R L

Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.820 577 9 GHz

Ref 20 dBm

Atten 20 dB

-7.86 dBm

#Peak

Log

10

dB/

Offst

11

dB

DI

7.6

dBm

LgAv

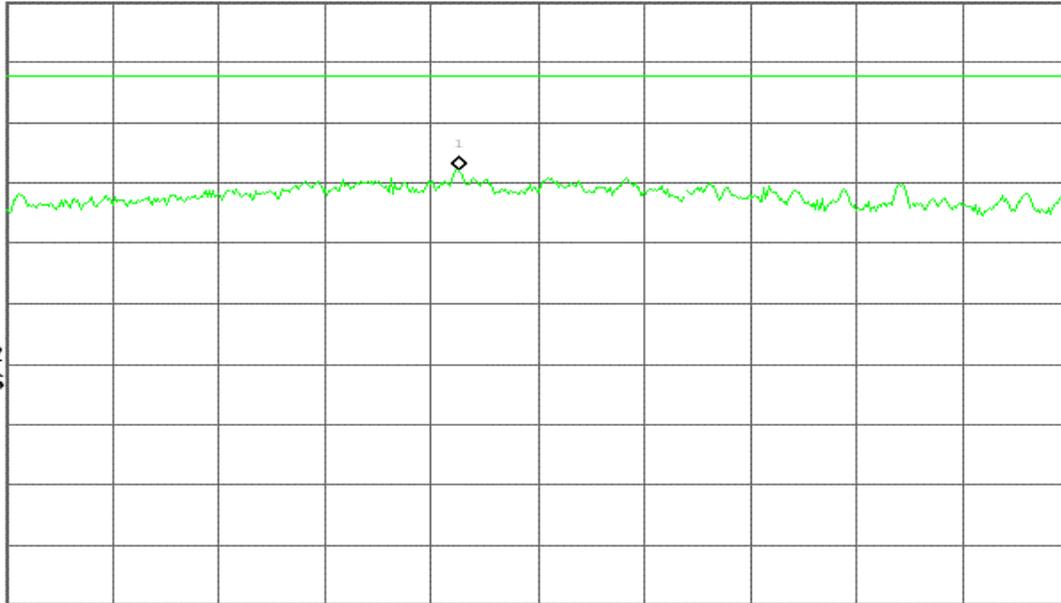
W1 S2

S3 FS

□(f):

f>50k

Swp



Center 5.820 600 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

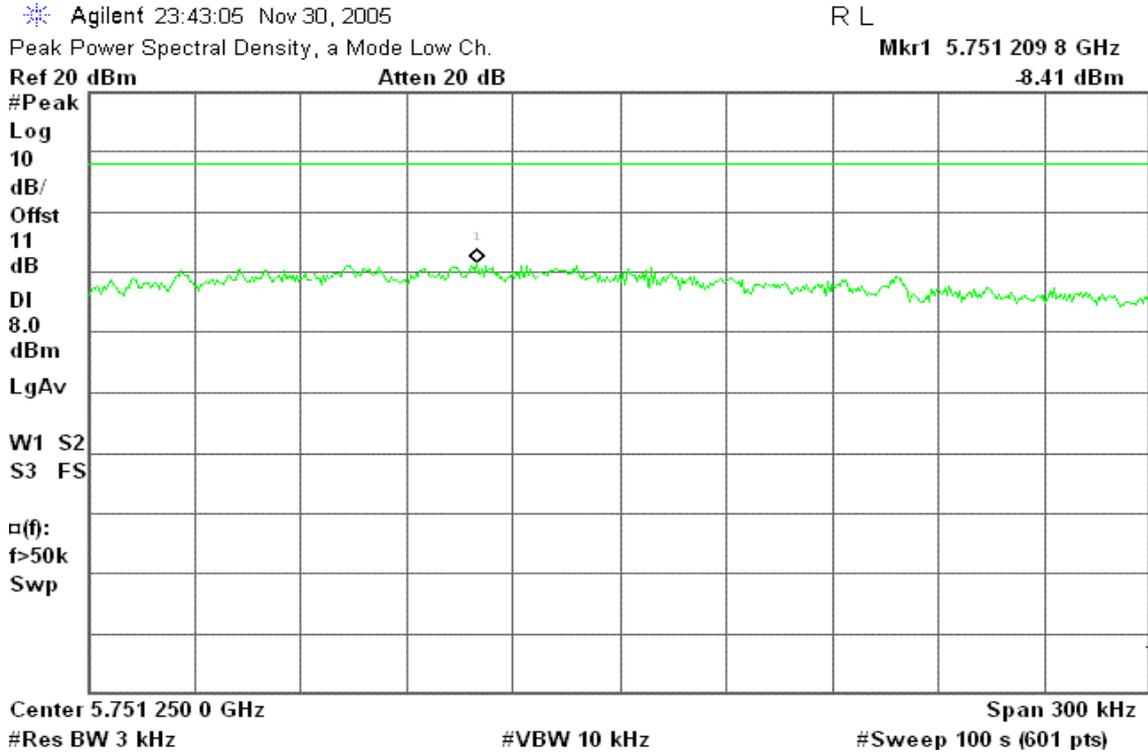
#Sweep 100 s (601 pts)



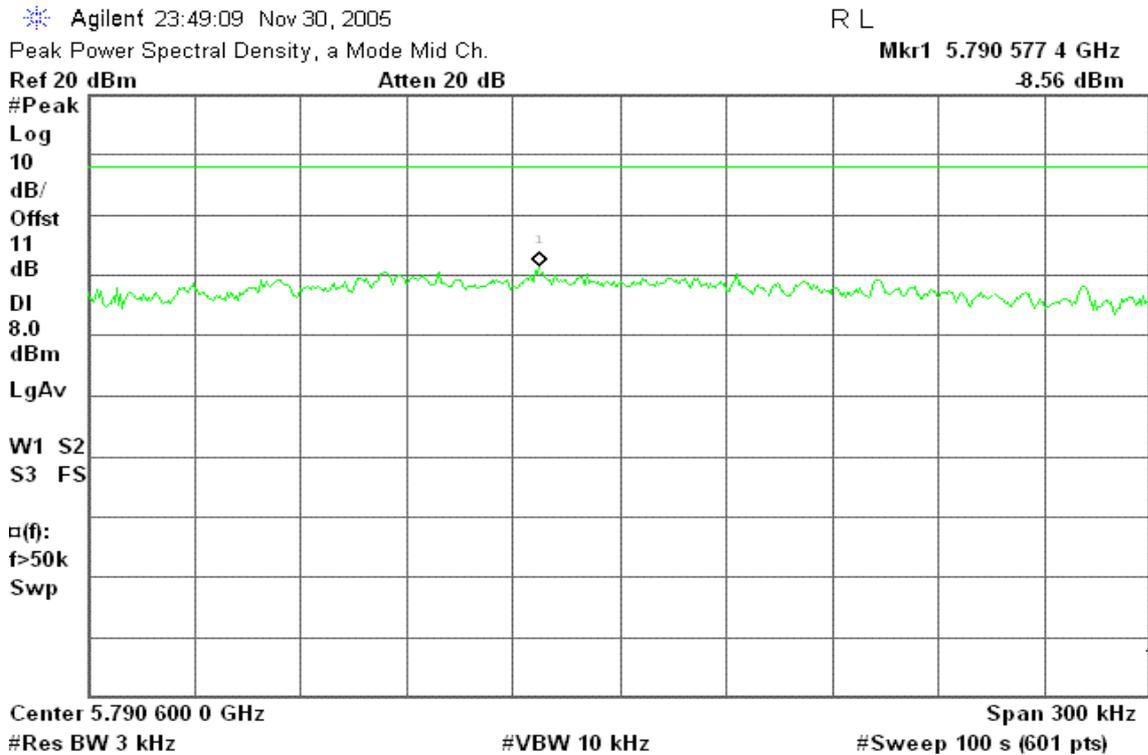
Mode 9: Antenna 6+ Module 2

IEEE 802.11a

CH Low



CH Mid





CH High

Agilent 23:54:34 Nov 30, 2005

R L

Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.822 483 1 GHz

Ref 20 dBm

Atten 20 dB

-8.77 dBm

#Peak

Log

10

dB/

Offst

11

dB

DI

8.0

dBm

LgAv

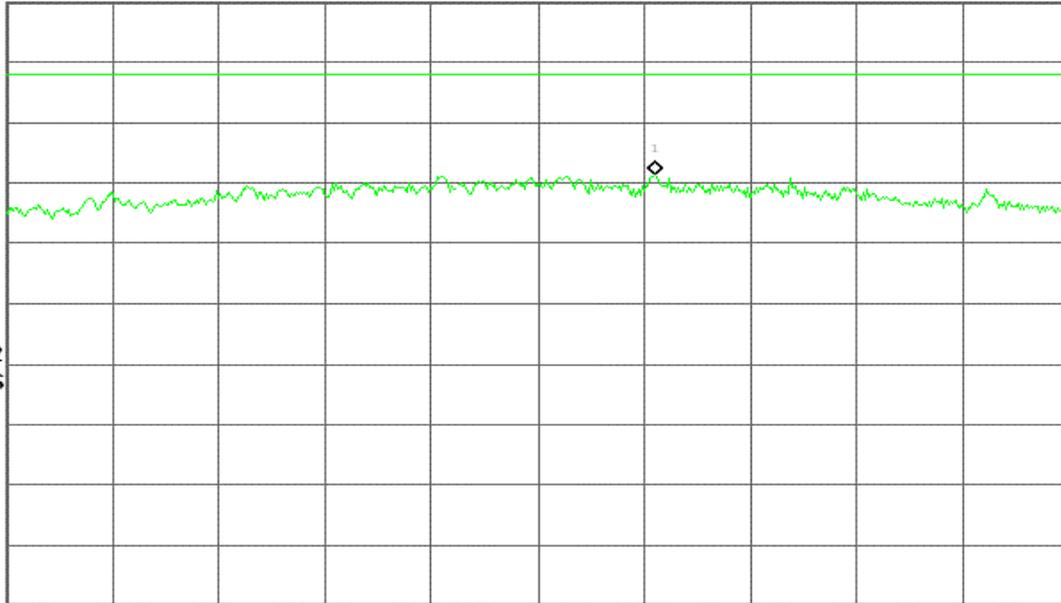
W1 S2

S3 FS

□(f):

f>50k

Swp



Center 5.822 450 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

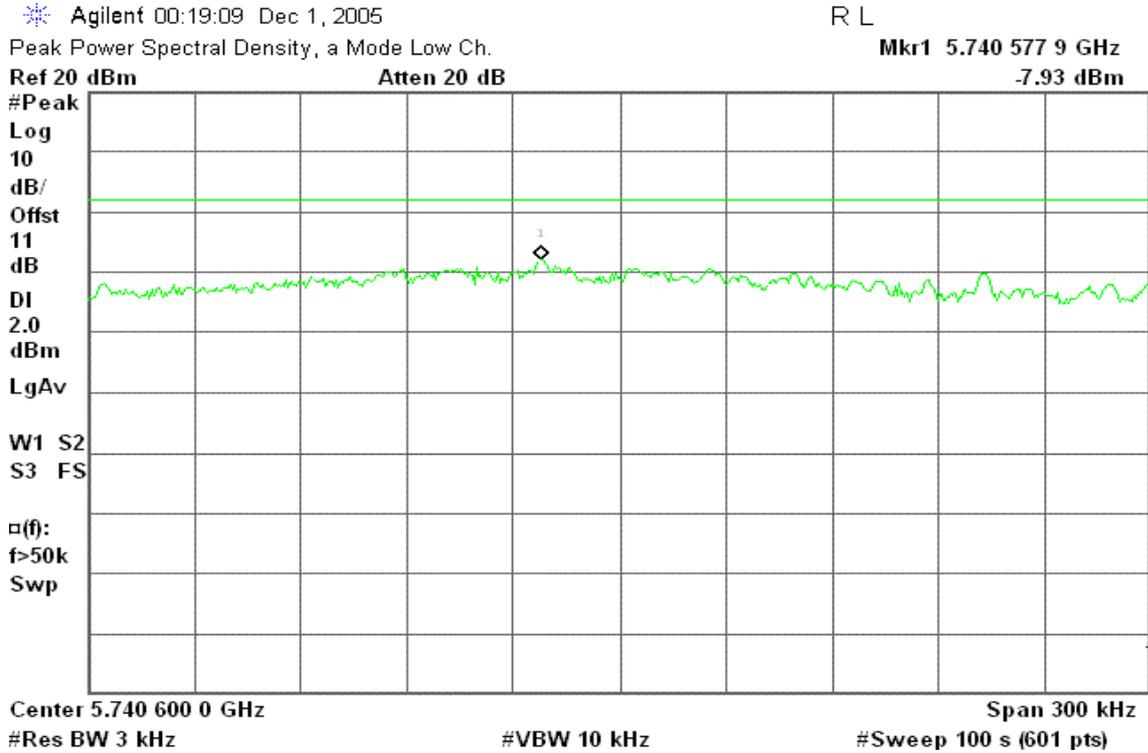
#Sweep 100 s (601 pts)



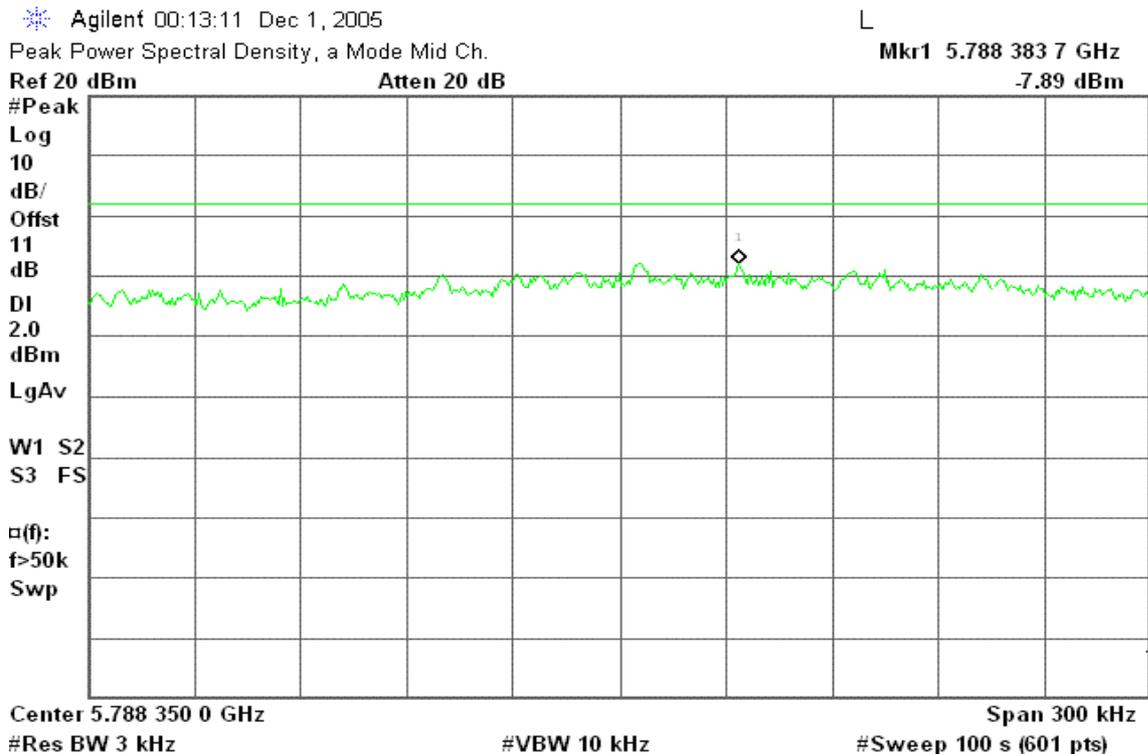
Mode 10: Antenna 7+ Module 2

IEEE 802.11a

CH Low



CH Mid





CH High

Agilent 00:06:08 Dec 1, 2005

R L

Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.824 328 4 GHz

Ref 20 dBm

Atten 20 dB

-7.83 dBm

#Peak

Log

10

dB/

Offst

11

dB

Dl

2.0

dBm

LgAv

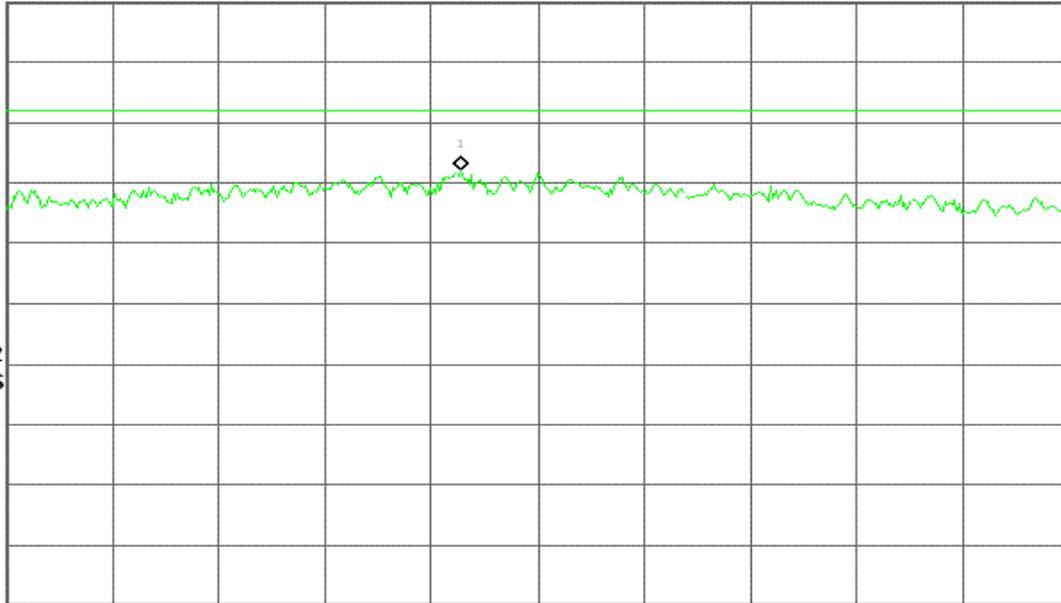
W1 S2

S3 FS

□(f):

f>50k

Swp



Center 5.824 350 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

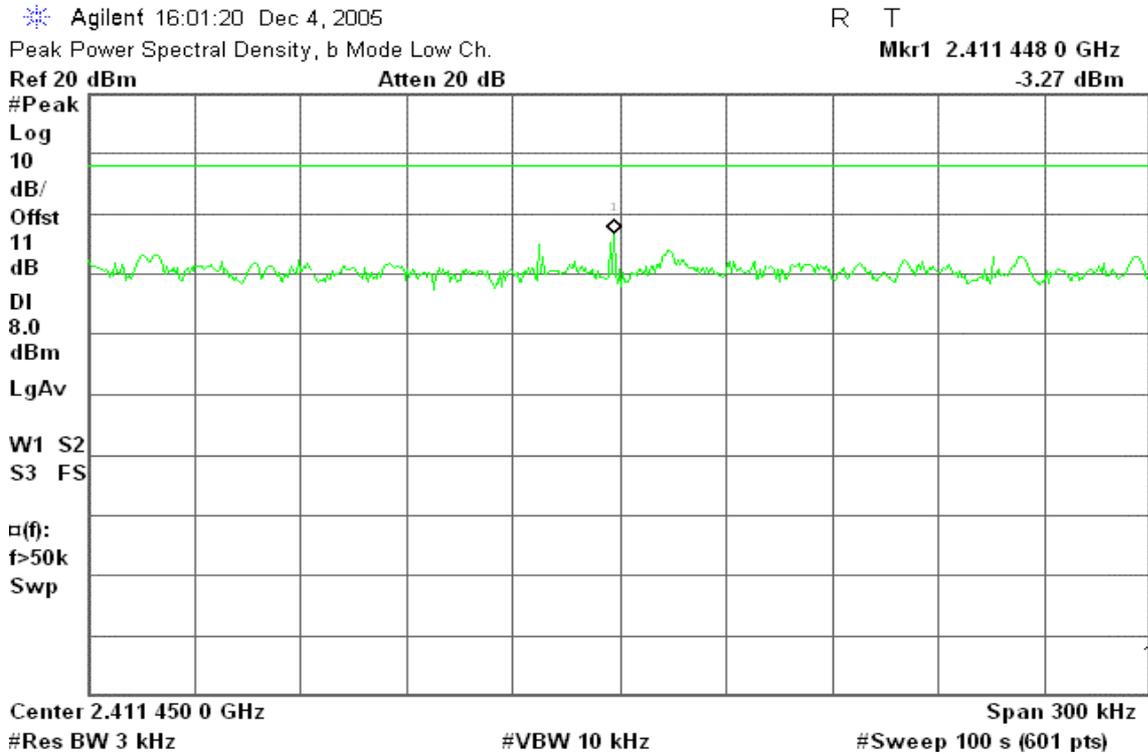
#Sweep 100 s (601 pts)



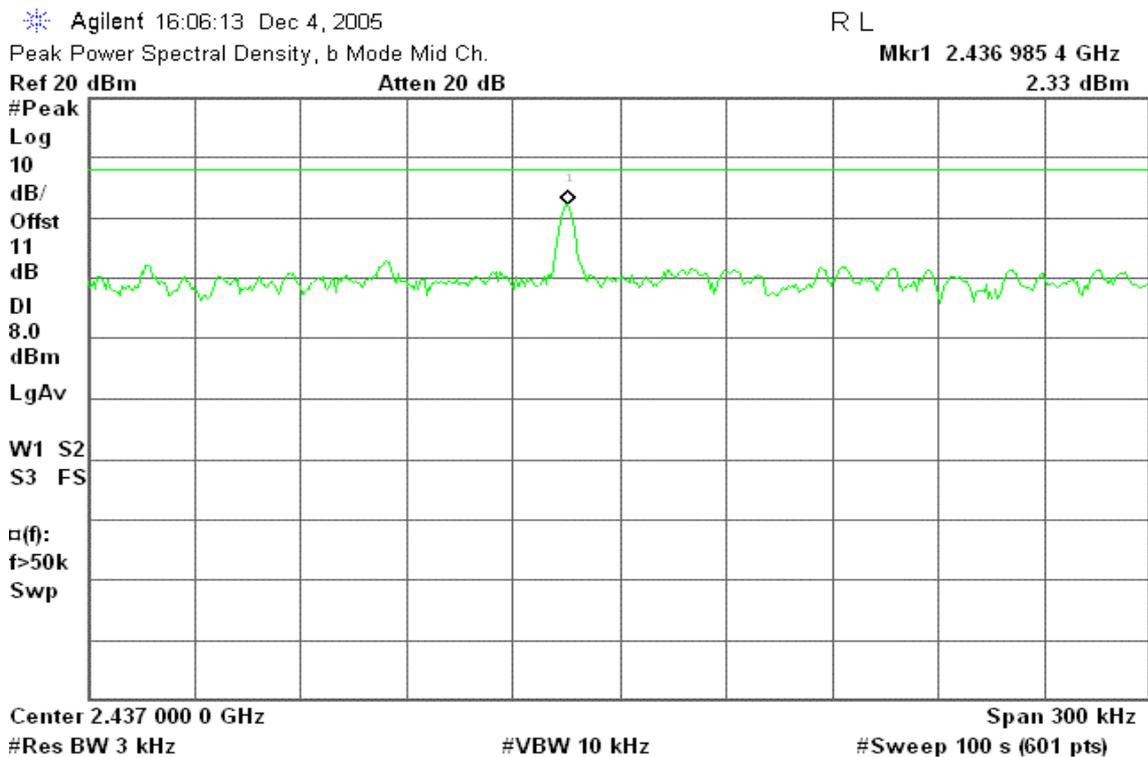
Mode 11: Antenna 9+ Module 1

IEEE 802.11b

CH Low



CH Mid





CH High

Agilent 16:12:21 Dec 4, 2005

R L

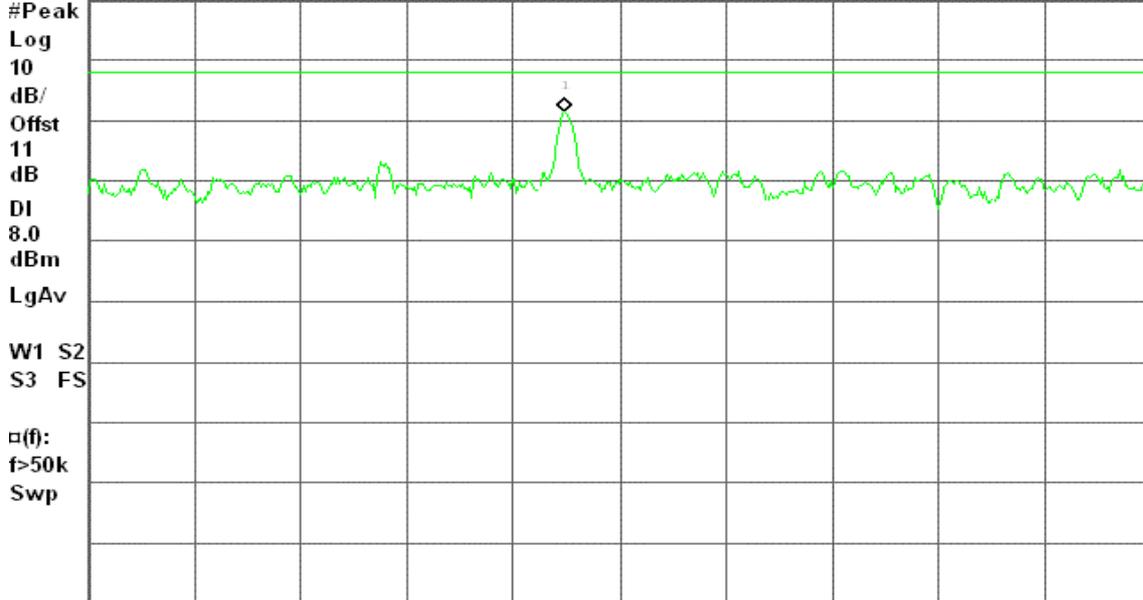
Peak Power Spectral Density, b Mode High Ch.

Mkr1 2.461 984 4 GHz

Ref 20 dBm

Atten 20 dB

1.42 dBm



Center 2.462 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

IEEE 802.11g

CH Low

Agilent 16:33:13 Dec 4, 2005

R L

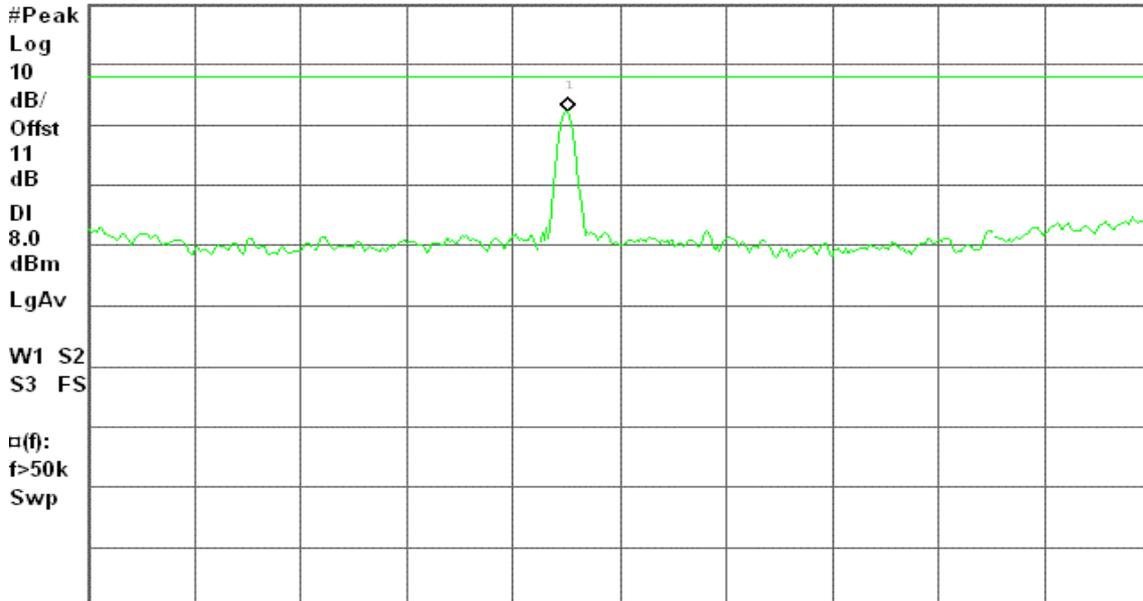
Peak Power Spectral Density, g Mode Low Ch.

Mkr1 2.411 985 4 GHz

Ref 20 dBm

Atten 20 dB

2.16 dBm



Center 2.412 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)



CH Mid

Agilent 16:27:57 Dec 4, 2005

R L

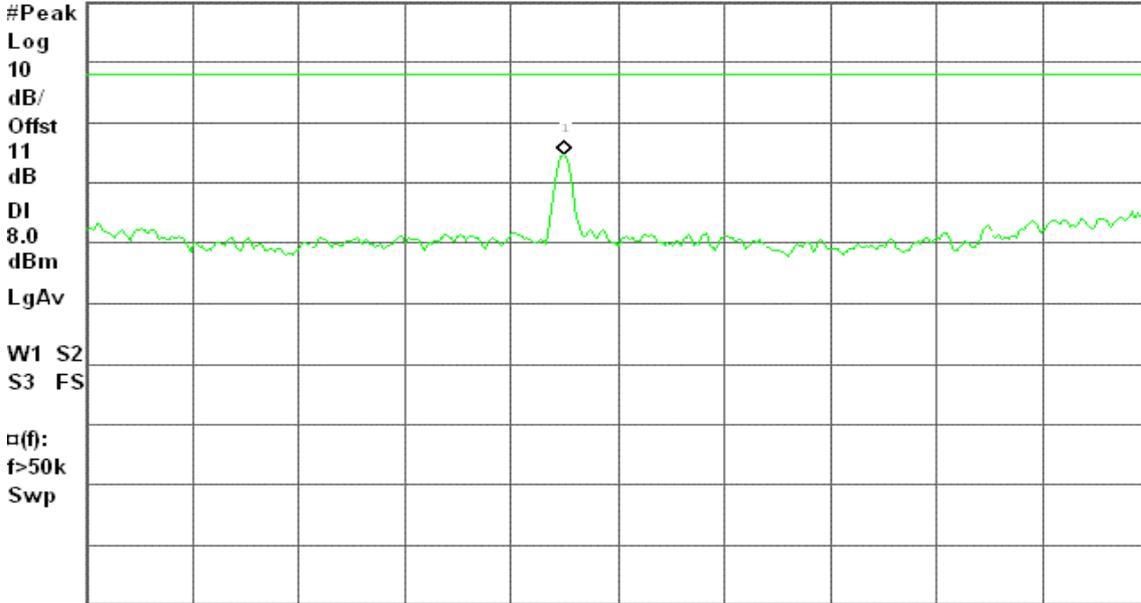
Peak Power Spectral Density, g Mode Mid Ch.

Mkr1 2.436 984 9 GHz

Ref 20 dBm

Atten 20 dB

-5.43 dBm



Center 2.437 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

CH High

Agilent 16:19:46 Dec 4, 2005

R L

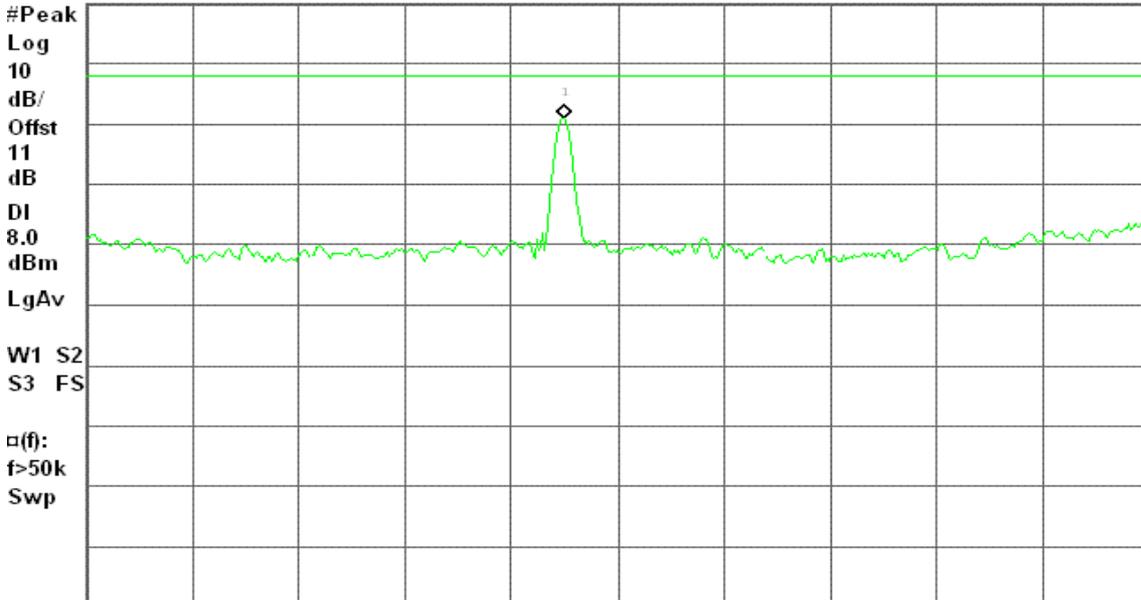
Peak Power Spectral Density, g Mode High Ch.

Mkr1 2.461 984 9 GHz

Ref 20 dBm

Atten 20 dB

0.84 dBm



Center 2.462 000 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

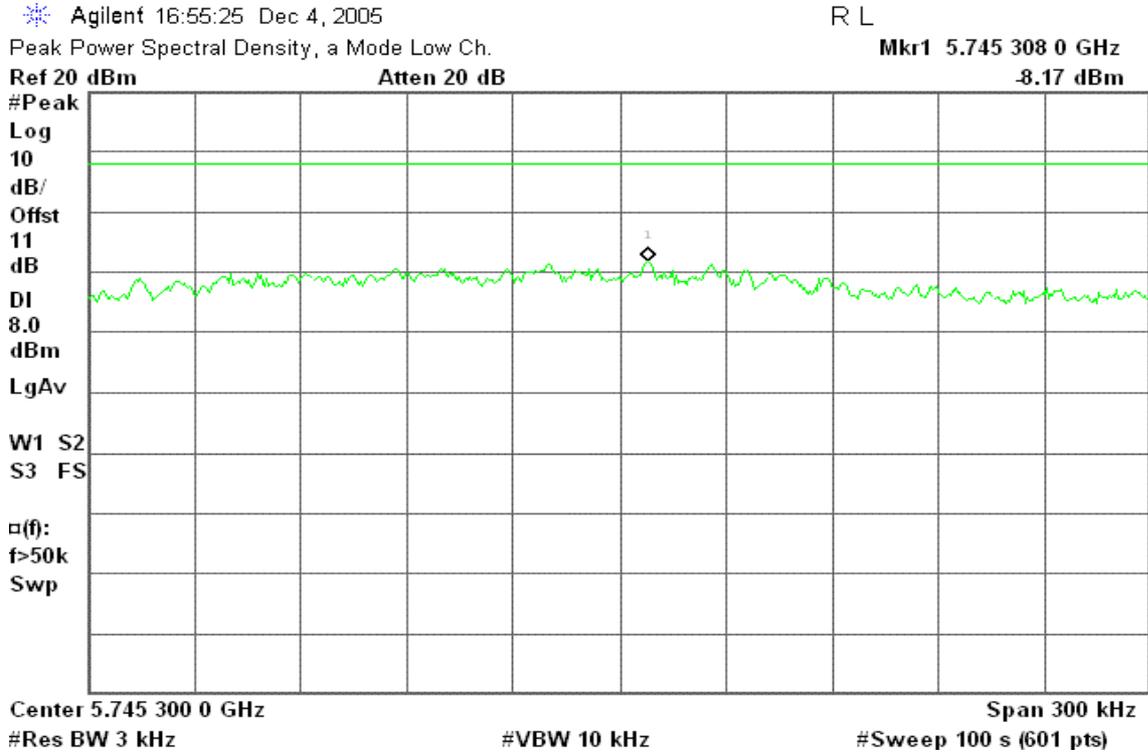
#Sweep 100 s (601 pts)



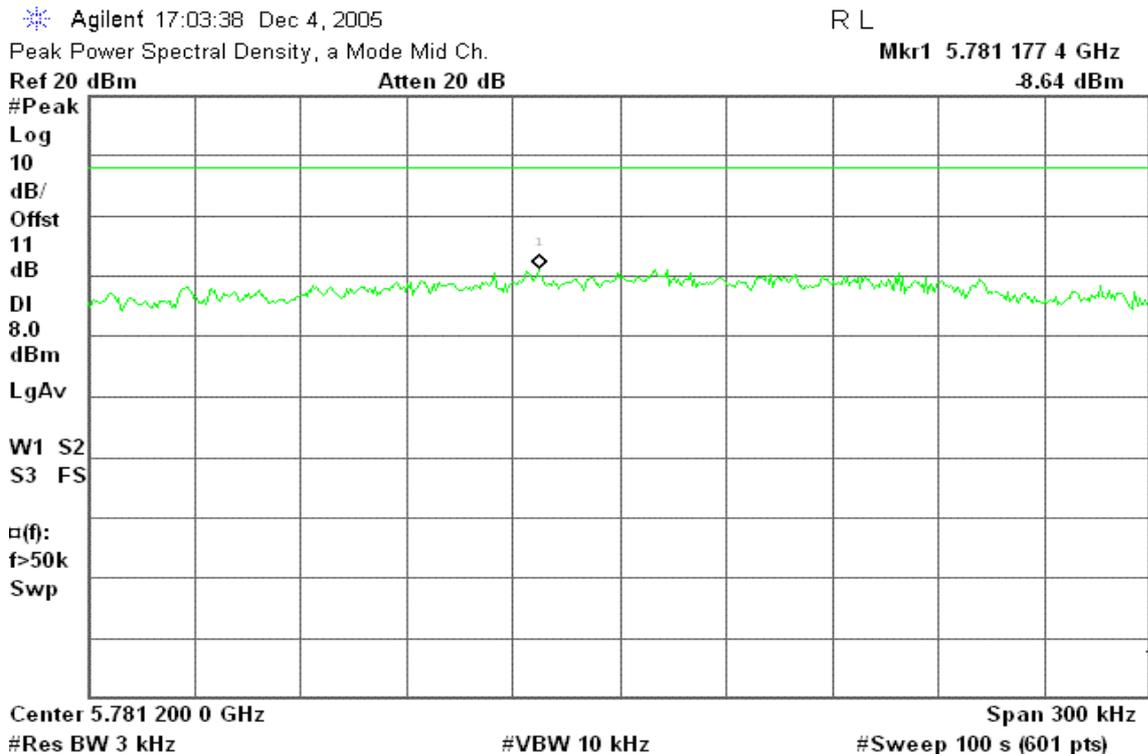
Mode 12: Antenna 11+ Module 2

IEEE 802.11a

CH Low



CH Mid





CH High

Agilent 17:08:42 Dec 4, 2005

R L

Peak Power Spectral Density, a Mode High Ch.

Mkr1 5.821 255 6 GHz

Ref 20 dBm

Atten 20 dB

-8.47 dBm

#Peak

Log

10

dB/

Offst

11

dB

DI

8.0

dBm

LgAv

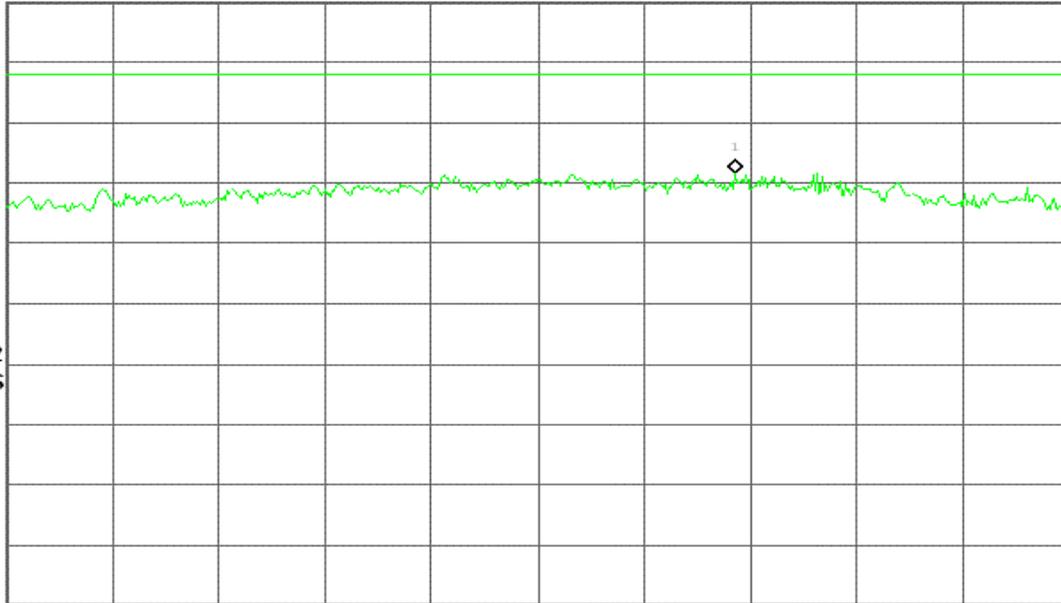
W1 S2

S3 FS

□(f):

f>50k

Swp



Center 5.821 200 0 GHz

Span 300 kHz

#Res BW 3 kHz

#VBW 10 kHz

#Sweep 100 s (601 pts)

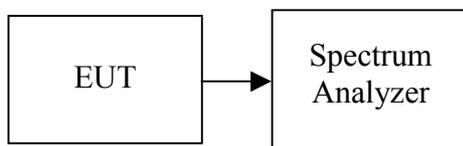
7.6 SPURIOUS EMISSIONS

7.6.1 Conducted Measurement

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz.

Measurements are made over the 30MHz to 26GHz range for IEEE802.11b/g, 30MHz to 40GHz range for IEEE802.11a with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

No non-compliance noted.



Test Plot

Mode 1: Antenna 2+ Module 1

IEEE 802.11b / CH Low

Agilent 17:49:17 Dec 4, 2005

L

Spurious, b Mode Low Ch.

Mkr1 2.42 GHz

Ref 20 dBm

Atten 20 dB

9.23 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	9.23 dBm
2	(1)	Freq	2.00 GHz	-50.81 dBm
3	(1)	Freq	4.83 GHz	-48.83 dBm
4	(1)	Freq	2.68 GHz	-52.33 dBm

IEEE 802.11b / CH Mid

Agilent 17:57:39 Dec 4, 2005

L

Spurious, b Mode Mid Ch.

Mkr4 2.68 GHz

Ref 20 dBm

Atten 20 dB

-52.12 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.46 GHz	9.97 dBm
2	(1)	Freq	2.19 GHz	-49.47 dBm
3	(1)	Freq	2.00 GHz	-50.44 dBm
4	(1)	Freq	2.68 GHz	-52.12 dBm



IEEE 802.11b / CH High

Agilent 18:15:08 Dec 4, 2005

L

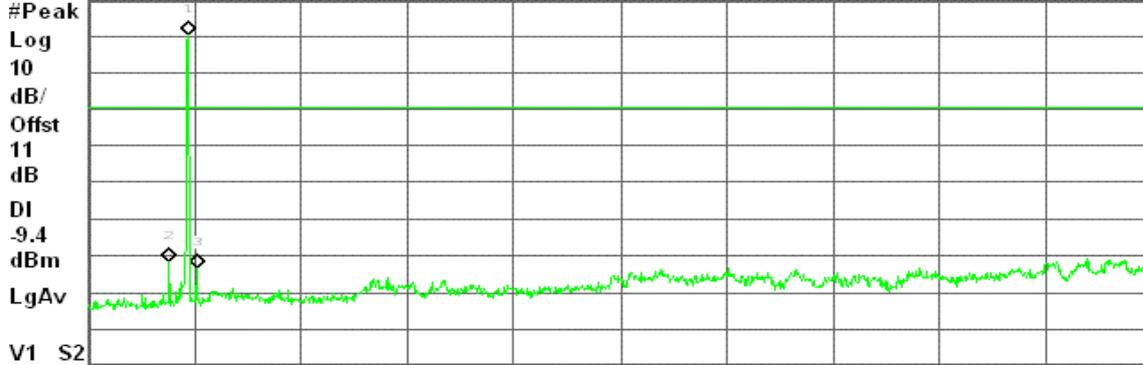
Spurious, b Mode High Ch.

Mkr3 2.68 GHz

Ref 20 dBm

Atten 20 dB

-53.66 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.47 GHz	10.62 dBm
2	(1)	Freq	2.00 GHz	-52.05 dBm
3	(1)	Freq	2.68 GHz	-53.66 dBm

IEEE 802.11g / CH Low

Agilent 20:18:21 Dec 4, 2005

L

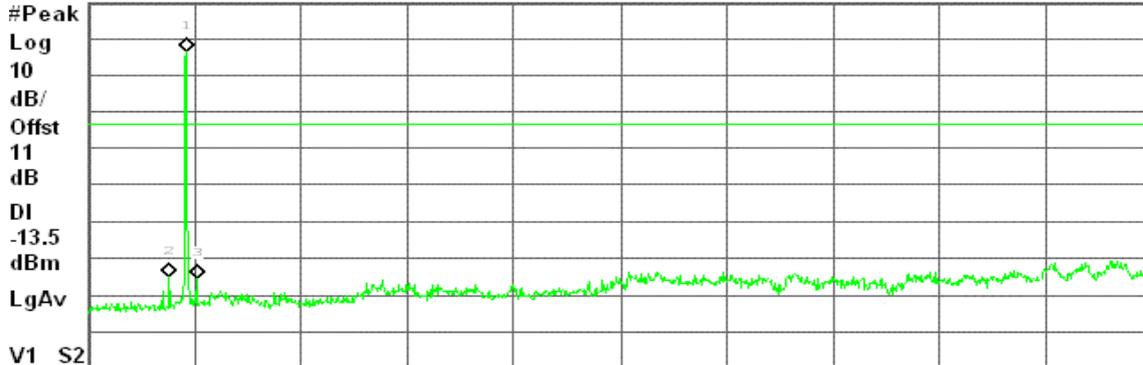
Spurious, g Mode Low Ch.

Mkr3 2.68 GHz

Ref 20 dBm

Atten 20 dB

-55.82 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	6.54 dBm
2	(1)	Freq	2.00 GHz	-55.25 dBm
3	(1)	Freq	2.68 GHz	-55.82 dBm



IEEE 802.11g / CH Mid

Agilent 20:26:09 Dec 4, 2005

L

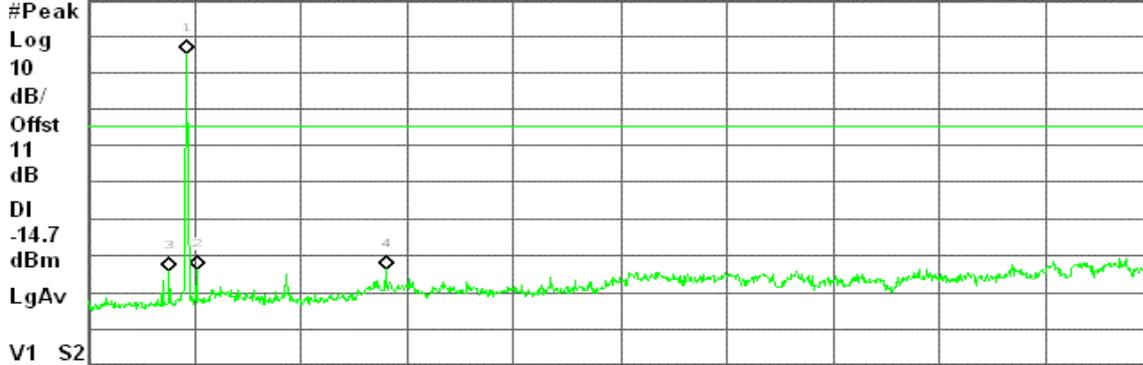
Spurious, g Mode Mid Ch.

Mkr4 7.30 GHz

Ref 20 dBm

Atten 20 dB

-54.11 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.46 GHz	5.30 dBm
2	(1)	Freq	2.68 GHz	-53.83 dBm
3	(1)	Freq	2.00 GHz	-54.62 dBm
4	(1)	Freq	7.30 GHz	-54.11 dBm

IEEE 802.11g / CH High

Agilent 20:33:47 Dec 4, 2005

L

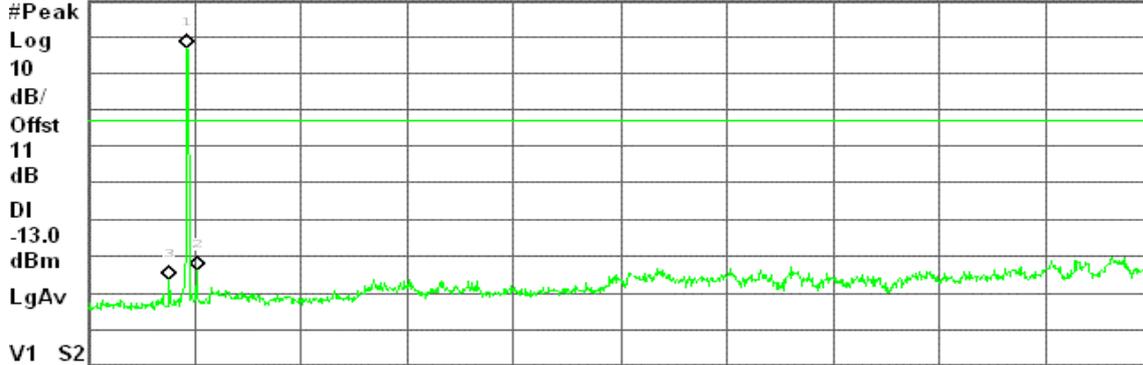
Spurious, g Mode High Ch.

Mkr3 2.00 GHz

Ref 20 dBm

Atten 20 dB

-56.81 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.46 GHz	7.02 dBm
2	(1)	Freq	2.68 GHz	-53.90 dBm
3	(1)	Freq	2.00 GHz	-56.81 dBm



Mode 2: Antenna 2+ Module 2

IEEE 802.11b / CH Low

Agilent 22:46:09 Nov 29, 2005

L

Spurious, b Mode Low Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-42.86 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	9.33 dBm
2	(1)	Freq	2.00 GHz	-42.86 dBm

IEEE 802.11b / CH Mid

Agilent 22:28:43 Nov 29, 2005

L

Spurious, b Mode Mid Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-42.57 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.46 GHz	8.66 dBm
2	(1)	Freq	2.00 GHz	-42.57 dBm



IEEE 802.11b / CH High

Agilent 22:37:09 Nov 29, 2005

L

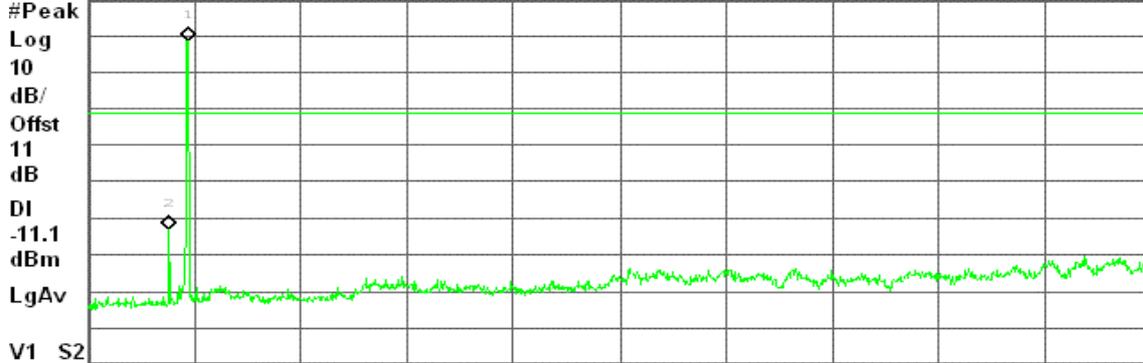
Spurious, b Mode High Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-43.25 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.47 GHz	8.90 dBm
2	(1)	Freq	2.00 GHz	-43.25 dBm

IEEE 802.11g / CH Low

Agilent 22:54:16 Nov 29, 2005

L

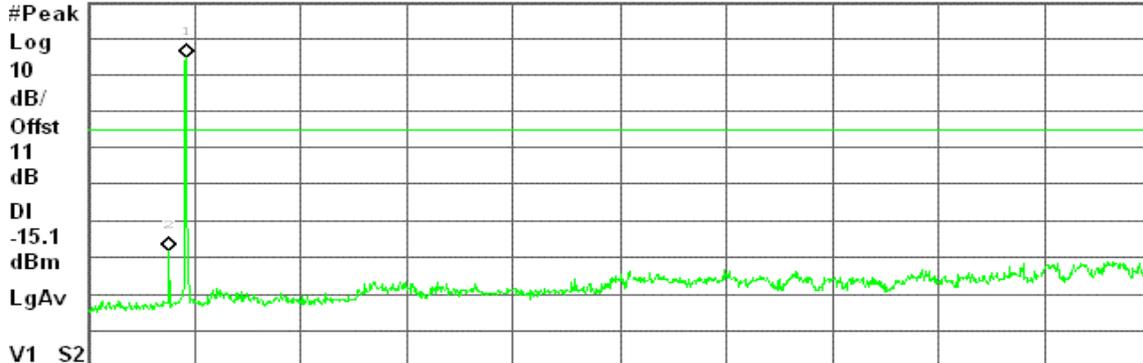
Spurious, g Mode Low Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-48.57 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	4.90 dBm
2	(1)	Freq	2.00 GHz	-48.57 dBm



IEEE 802.11g / CH Mid

Agilent 23:01:42 Nov 29, 2005

L

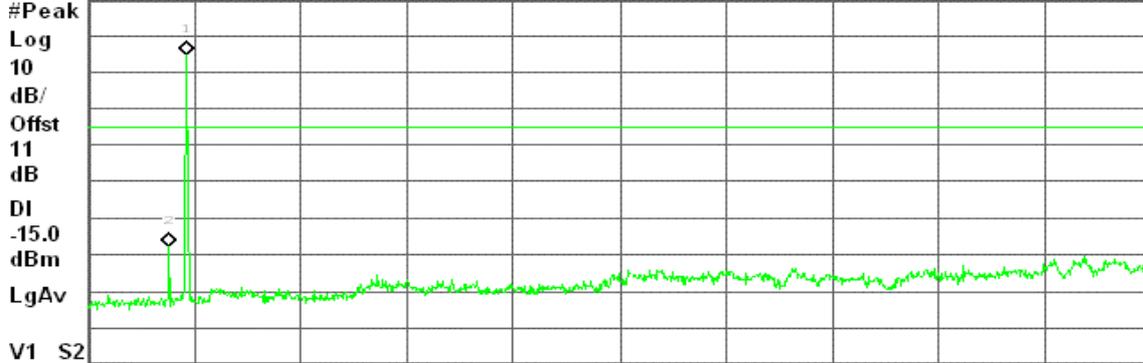
Spurious, g Mode Mid Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-47.81 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.46 GHz	5.01 dBm
2	(1)	Freq	2.00 GHz	-47.81 dBm

IEEE 802.11g / CH High

Agilent 13:44:17 Nov 30, 2005

L

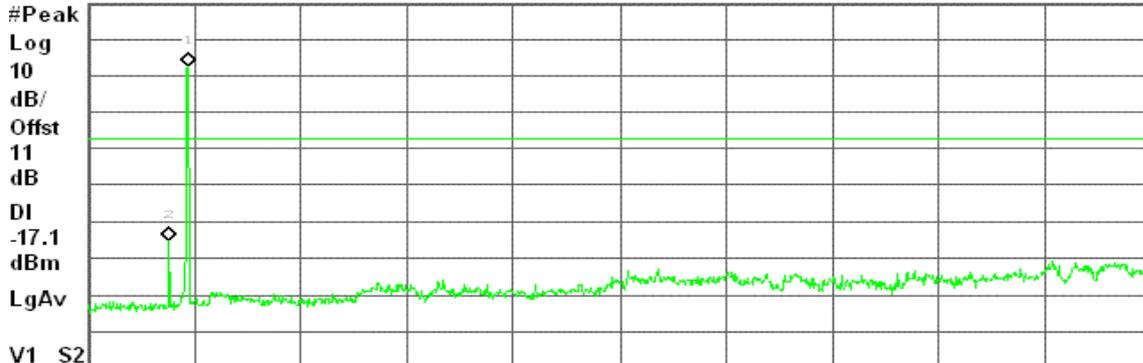
Spurious, g Mode High Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-45.55 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.47 GHz	2.89 dBm
2	(1)	Freq	2.00 GHz	-45.55 dBm



Mode 3: Antenna 3+ Module 1

IEEE 802.11b / CH Low

Agilent 18:28:15 Dec 4, 2005

L

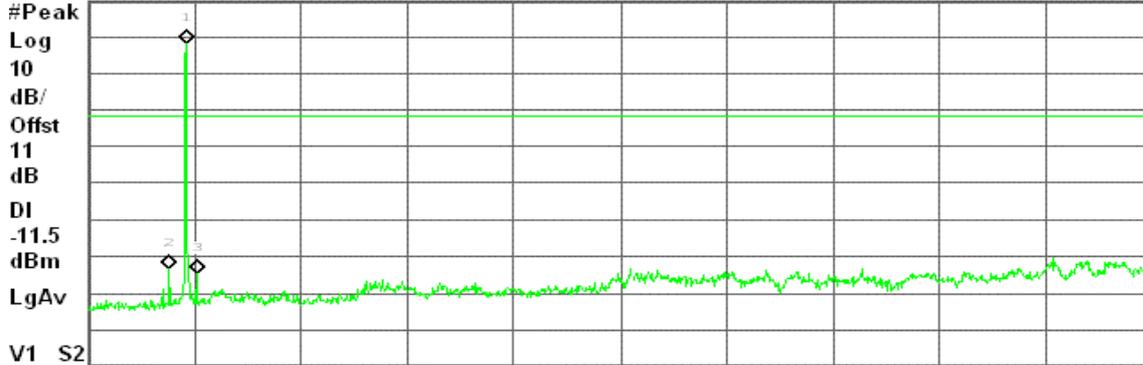
Spurious, b Mode Low Ch.

Mkr3 2.68 GHz

Ref 20 dBm

Atten 20 dB

-54.94 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	8.48 dBm
2	(1)	Freq	2.00 GHz	-53.60 dBm
3	(1)	Freq	2.68 GHz	-54.94 dBm

IEEE 802.11b / CH Mid

Agilent 18:35:29 Dec 4, 2005

L

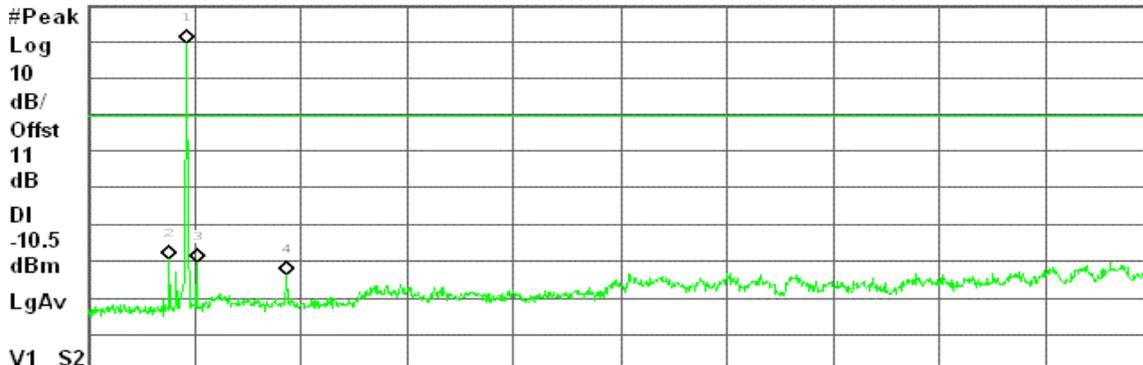
Spurious, b Mode Mid Ch.

Mkr4 4.89 GHz

Ref 20 dBm

Atten 20 dB

-54.04 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	9.52 dBm
2	(1)	Freq	2.00 GHz	-49.80 dBm
3	(1)	Freq	2.68 GHz	-50.76 dBm
4	(1)	Freq	4.89 GHz	-54.04 dBm



IEEE 802.11b / CH High

Agilent 18:55:00 Dec 4, 2005

L

Spurious, b Mode High Ch.

Mkr4 2.68 GHz

Ref 20 dBm

Atten 20 dB

-51.85 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.47 GHz	9.09 dBm
2	(1)	Freq	2.24 GHz	-49.83 dBm
3	(1)	Freq	2.00 GHz	-50.40 dBm
4	(1)	Freq	2.68 GHz	-51.85 dBm

IEEE 802.11g / CH Low

Agilent 20:45:19 Dec 4, 2005

L

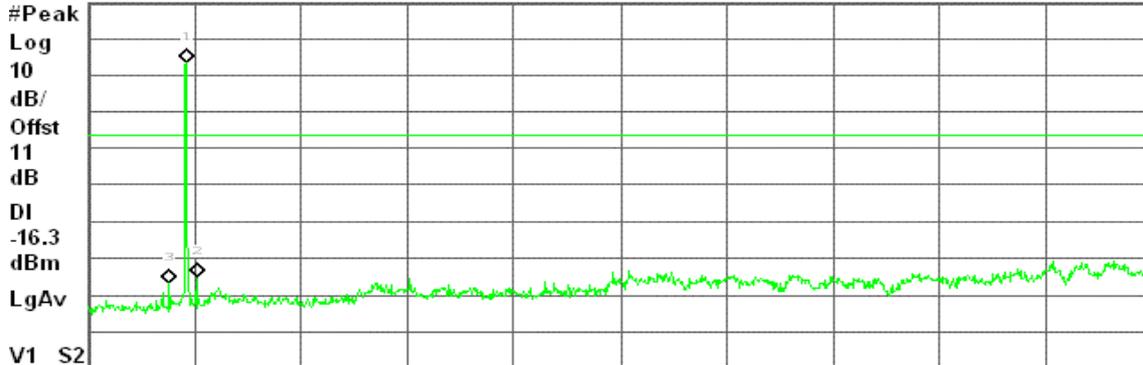
Spurious, g Mode Low Ch.

Mkr3 2.00 GHz

Ref 20 dBm

Atten 20 dB

-57.18 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	3.67 dBm
2	(1)	Freq	2.68 GHz	-55.55 dBm
3	(1)	Freq	2.00 GHz	-57.18 dBm



IEEE 802.11g / CH Mid

Agilent 20:52:50 Dec 4, 2005

L

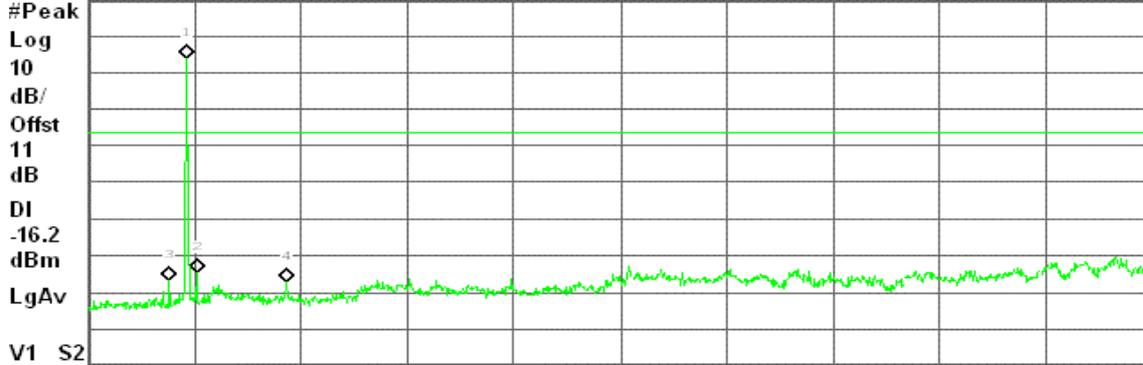
Spurious, g Mode Mid Ch.

Mkr4 4.89 GHz

Ref 20 dBm

Atten 20 dB

-57.31 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	3.78 dBm
2	(1)	Freq	2.68 GHz	-54.78 dBm
3	(1)	Freq	2.00 GHz	-57.04 dBm
4	(1)	Freq	4.89 GHz	-57.31 dBm

IEEE 802.11g / CH High

Agilent 20:58:49 Dec 4, 2005

L

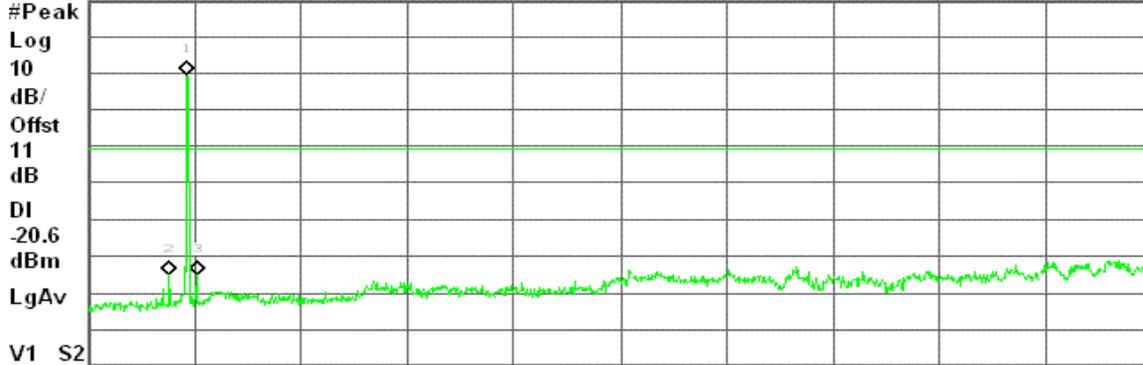
Spurious, g Mode High Ch.

Mkr3 2.68 GHz

Ref 20 dBm

Atten 20 dB

-55.30 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	-0.56 dBm
2	(1)	Freq	2.00 GHz	-55.26 dBm
3	(1)	Freq	2.68 GHz	-55.30 dBm



Mode 4: Antenna 3+ Module 2

IEEE 802.11b / CH Low

Agilent 14:18:14 Nov 30, 2005

L

Spurious, b Mode Low Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-48.94 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	8.71 dBm
2	(1)	Freq	2.00 GHz	-48.94 dBm

IEEE 802.11b / CH Mid

Agilent 14:11:18 Nov 30, 2005

L

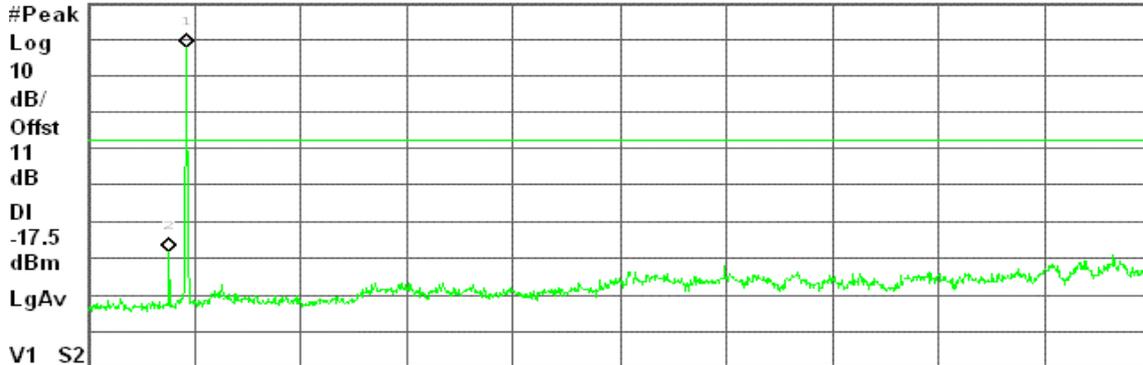
Spurious, b Mode Mid Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-48.28 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.46 GHz	8.03 dBm
2	(1)	Freq	2.00 GHz	-48.28 dBm



IEEE 802.11b / CH High

Agilent 14:03:59 Nov 30, 2005

L

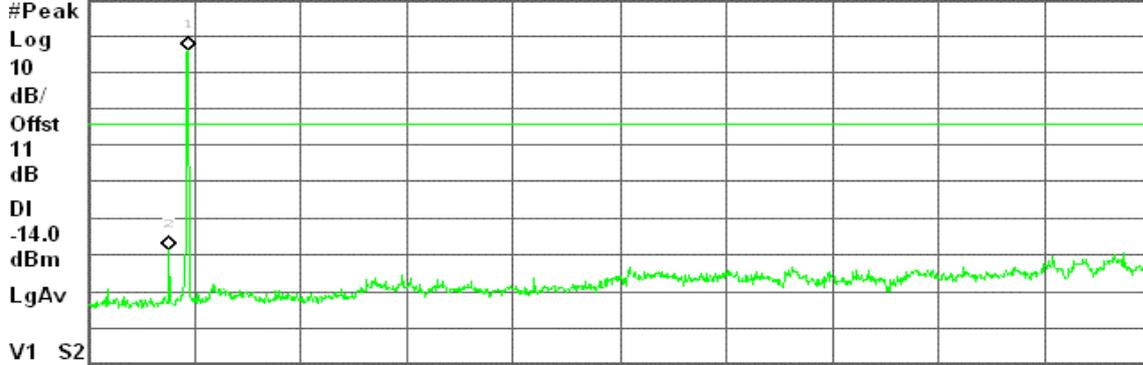
Spurious, b Mode High Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-48.99 dBm



Center 13.02 GHz Span 25.97 GHz
 #Res BW 100 kHz #VBW 100 kHz Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.47 GHz	6.01 dBm
2	(1)	Freq	2.00 GHz	-48.99 dBm

IEEE 802.11g / CH Low

Agilent 16:51:33 Nov 30, 2005

L

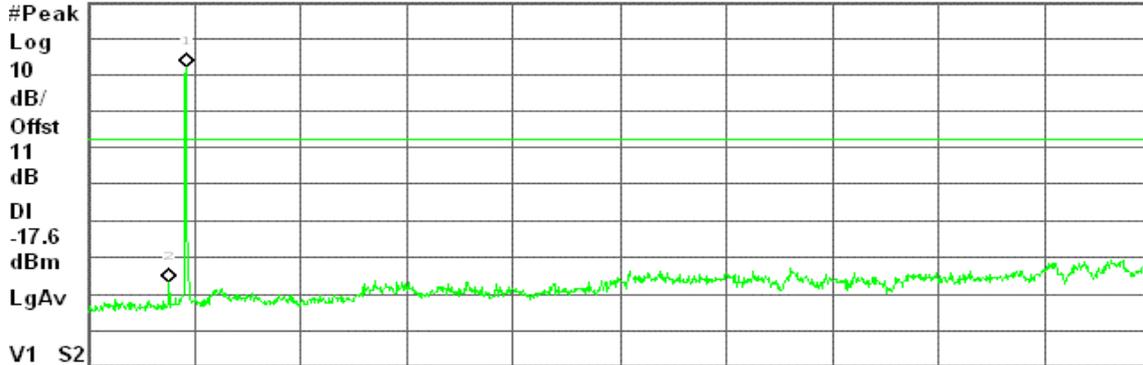
Spurious, g Mode Low Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-57.21 dBm



Center 13.02 GHz Span 25.97 GHz
 #Res BW 100 kHz #VBW 100 kHz Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	2.40 dBm
2	(1)	Freq	2.00 GHz	-57.21 dBm



IEEE 802.11g / CH Mid

Agilent 17:10:16 Nov 30, 2005

L

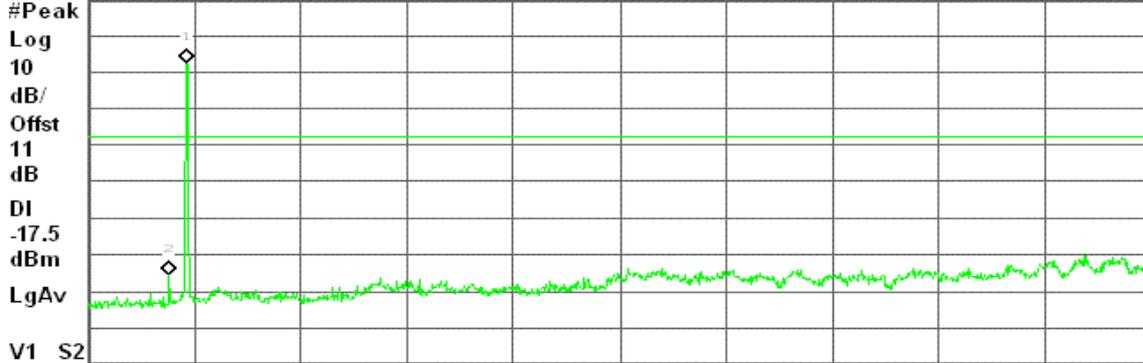
Spurious, g Mode Mid Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-55.91 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	2.47 dBm
2	(1)	Freq	2.00 GHz	-55.91 dBm

IEEE 802.11g / CH High

Agilent 17:50:14 Nov 30, 2005

L

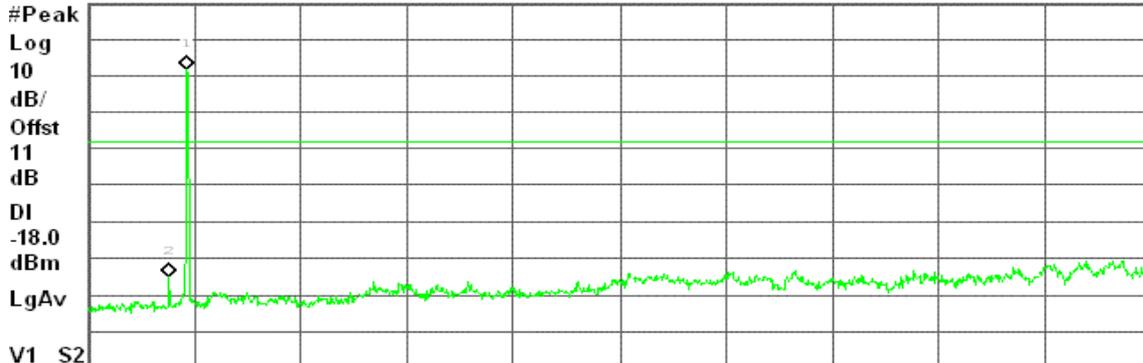
Spurious, g Mode High Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-55.52 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	2.00 dBm
2	(1)	Freq	2.00 GHz	-55.52 dBm



Mode 5: Antenna 4+ Module 1

IEEE 802.11b / CH Low

Agilent 19:08:59 Dec 4, 2005

L

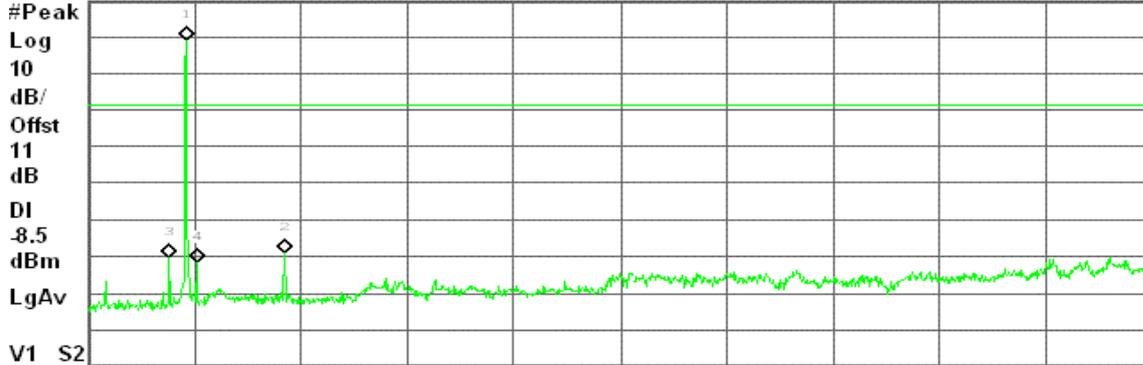
Spurious, b Mode Low Ch.

Mkr4 2.68 GHz

Ref 20 dBm

Atten 20 dB

-51.78 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	9.24 dBm
2	(1)	Freq	4.83 GHz	-49.24 dBm
3	(1)	Freq	2.00 GHz	-50.64 dBm
4	(1)	Freq	2.68 GHz	-51.78 dBm

IEEE 802.11b / CH Mid

Agilent 19:16:29 Dec 4, 2005

L

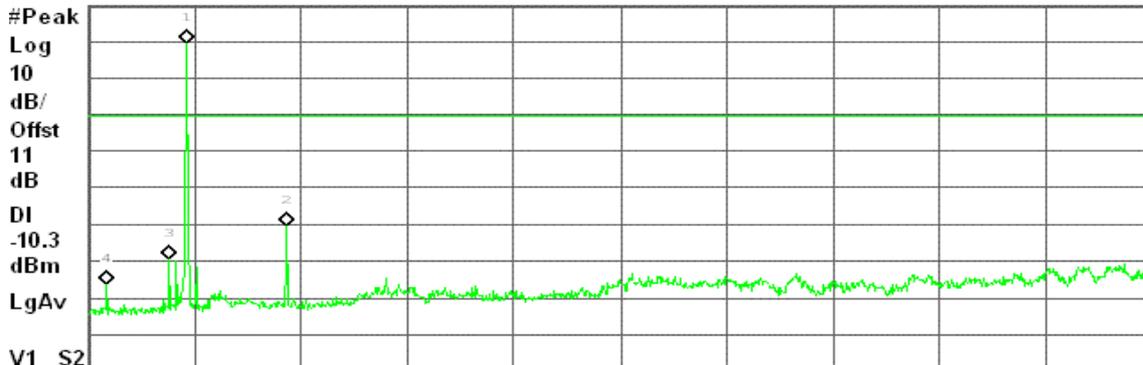
Spurious, b Mode Mid Ch.

Mkr4 470 MHz

Ref 20 dBm

Atten 20 dB

-56.47 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	9.73 dBm
2	(1)	Freq	4.89 GHz	-40.47 dBm
3	(1)	Freq	2.00 GHz	-49.62 dBm
4	(1)	Freq	470 MHz	-56.47 dBm



IEEE 802.11b / CH High

Agilent 19:23:50 Dec 4, 2005

L

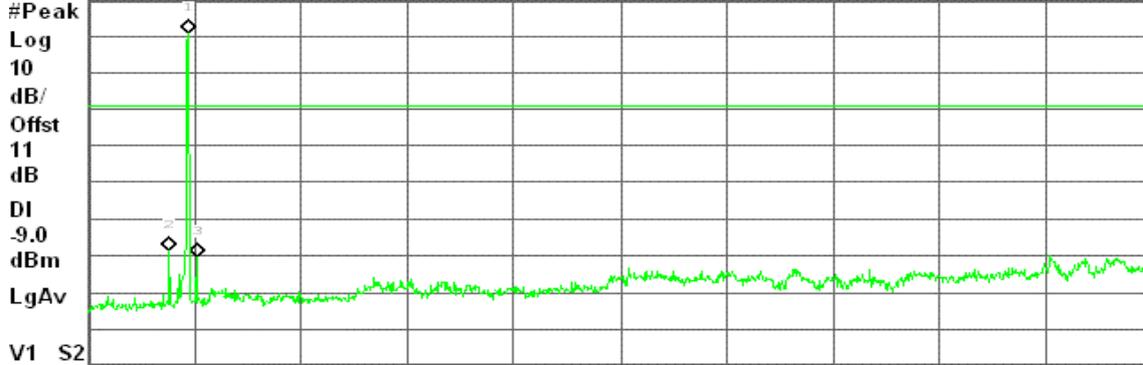
Spurious, b Mode High Ch.

Mkr3 2.68 GHz

Ref 20 dBm

Atten 20 dB

-50.50 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.47 GHz	10.96 dBm
2	(1)	Freq	2.00 GHz	-48.74 dBm
3	(1)	Freq	2.68 GHz	-50.50 dBm

IEEE 802.11g / CH Low

Agilent 21:27:53 Dec 4, 2005

L

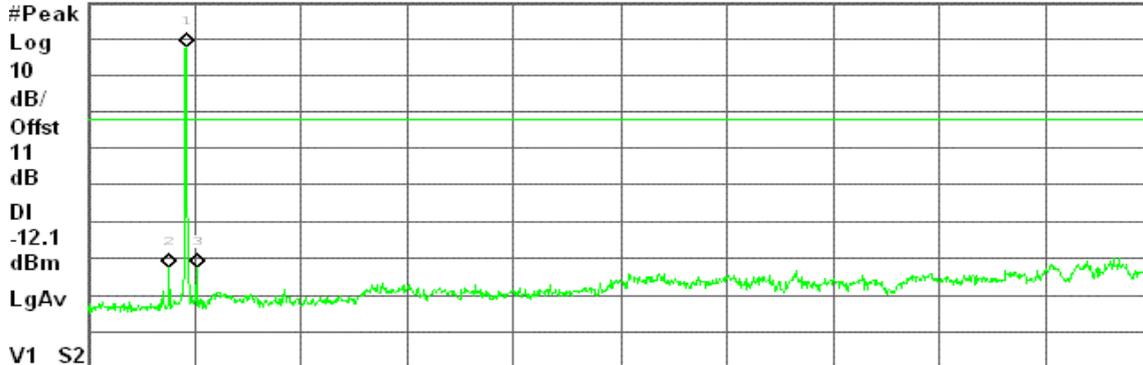
Spurious, g Mode Low Ch.

Mkr3 2.68 GHz

Ref 20 dBm

Atten 20 dB

-52.86 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	7.95 dBm
2	(1)	Freq	2.00 GHz	-52.70 dBm
3	(1)	Freq	2.68 GHz	-52.86 dBm



IEEE 802.11g / CH Mid

Agilent 21:19:53 Dec 4, 2005

L

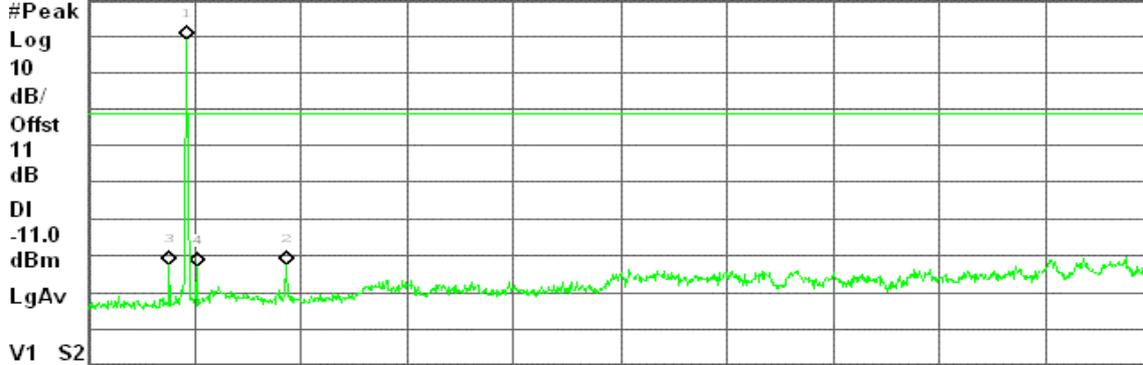
Spurious, g Mode Mid Ch.

Mkr4 2.68 GHz

Ref 20 dBm

Atten 20 dB

-53.20 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	8.99 dBm
2	(1)	Freq	4.86 GHz	-52.87 dBm
3	(1)	Freq	2.00 GHz	-52.59 dBm
4	(1)	Freq	2.68 GHz	-53.20 dBm

IEEE 802.11g / CH High

Agilent 21:06:52 Dec 4, 2005

L

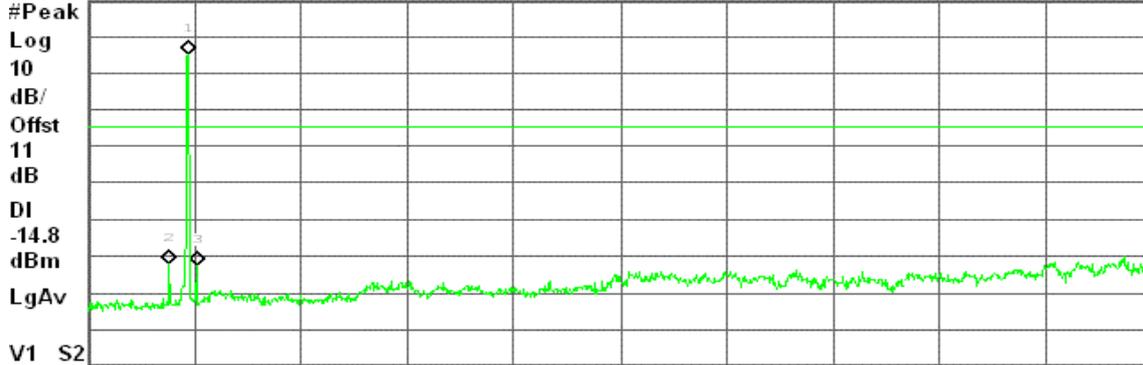
Spurious, g Mode High Ch.

Mkr3 2.68 GHz

Ref 20 dBm

Atten 20 dB

-52.69 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.47 GHz	5.21 dBm
2	(1)	Freq	2.00 GHz	-52.22 dBm
3	(1)	Freq	2.68 GHz	-52.69 dBm



Mode 6: Antenna 4+ Module 2

IEEE 802.11b / CH Low

Agilent 19:57:07 Nov 30, 2005

L

Spurious, b Mode Low Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-56.61 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	10.01 dBm
2	(1)	Freq	2.00 GHz	-56.61 dBm

IEEE 802.11b / CH Mid

Agilent 20:17:33 Nov 30, 2005

L

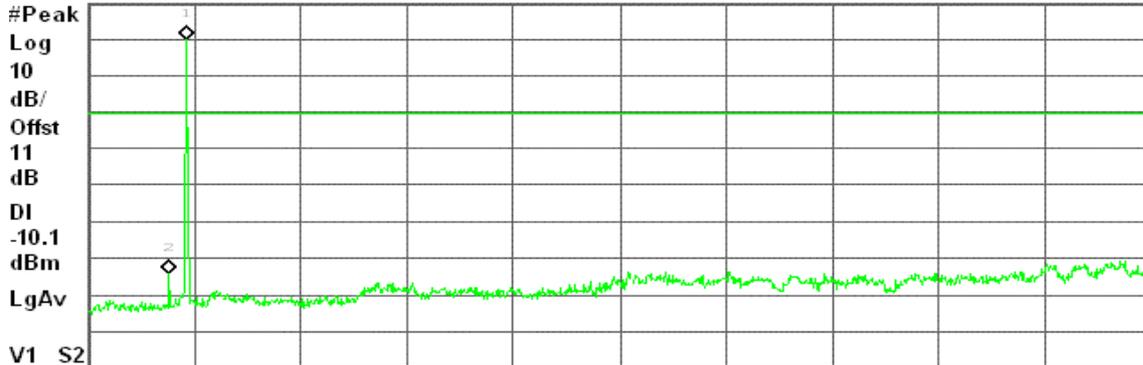
Spurious, b Mode Mid Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-54.60 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.46 GHz	9.91 dBm
2	(1)	Freq	2.00 GHz	-54.60 dBm



IEEE 802.11b / CH High

Agilent 20:30:37 Nov 30, 2005

L

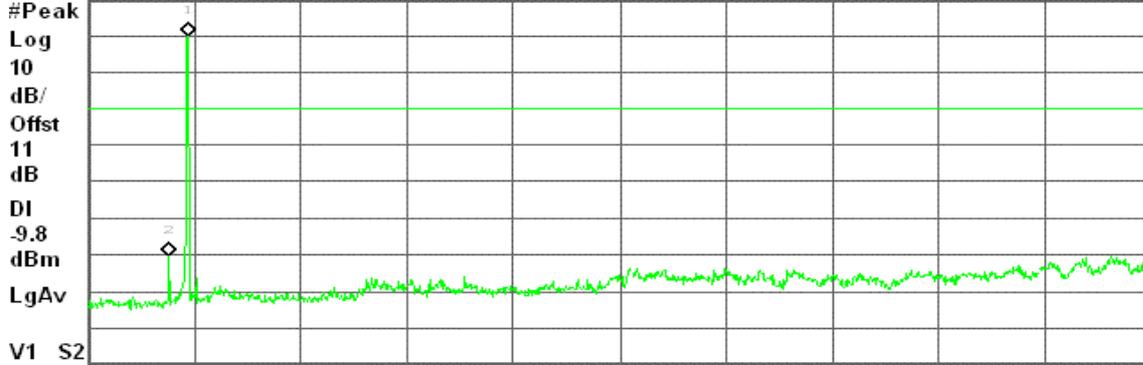
Spurious, b Mode High Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-50.37 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.47 GHz	10.25 dBm
2	(1)	Freq	2.00 GHz	-50.37 dBm

IEEE 802.11g / CH Low

Agilent 20:59:30 Nov 30, 2005

L

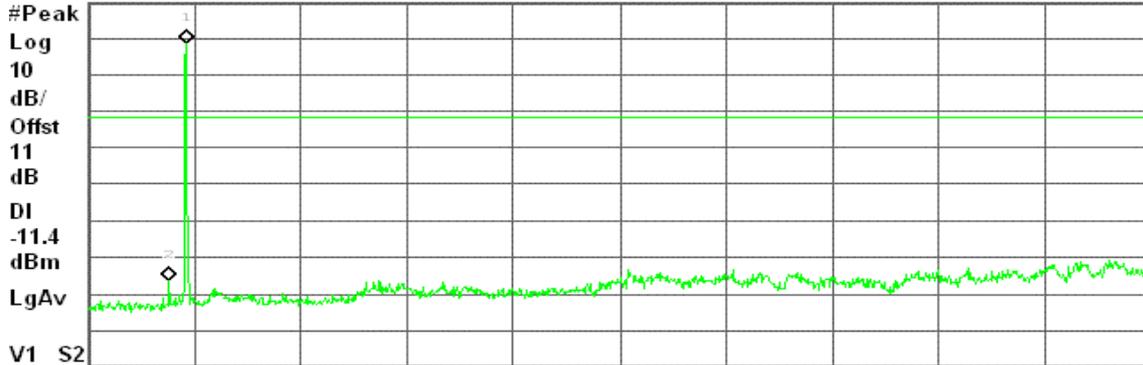
Spurious, g Mode Low Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-56.80 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	8.59 dBm
2	(1)	Freq	2.00 GHz	-56.80 dBm



IEEE 802.11g / CH Mid

Agilent 20:51:48 Nov 30, 2005

L

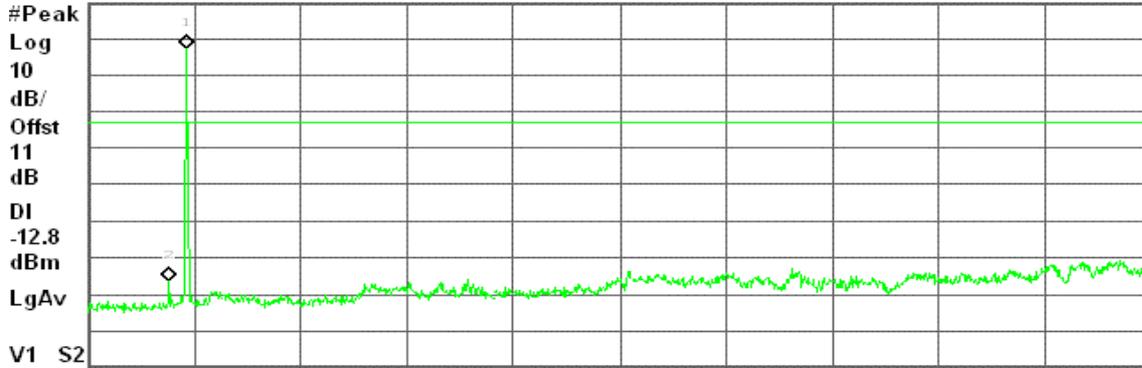
Spurious, g Mode Mid Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-56.66 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	7.24 dBm
2	(1)	Freq	2.00 GHz	-56.66 dBm

IEEE 802.11g / CH High

Agilent 20:40:54 Nov 30, 2005

L

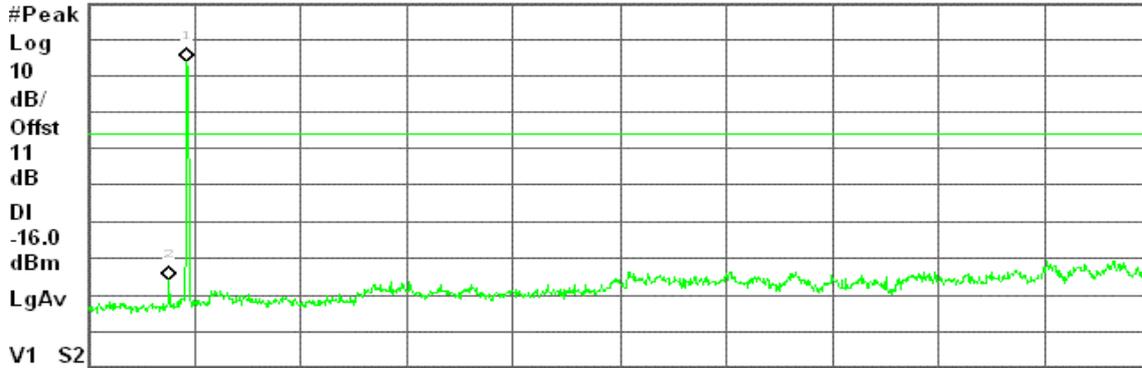
Spurious, g Mode High Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-56.11 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	4.03 dBm
2	(1)	Freq	2.00 GHz	-56.11 dBm



IEEE 802.11a / CH Low

Agilent 22:53:01 Nov 30, 2005

R L

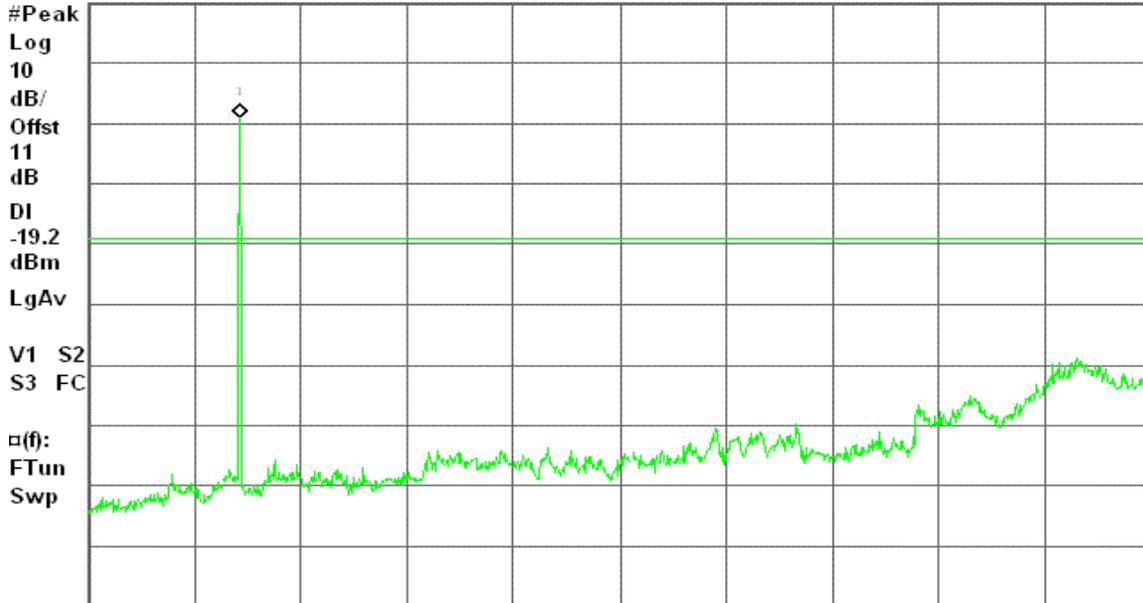
Spurious, a Mode Low Ch.

Mkr1 5.75 GHz

Ref 20 dBm

Atten 20 dB

0.84 dBm



Center 20.02 GHz

Span 39.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 4.819 s (1001 pts)

IEEE 802.11a / CH Mid

Agilent 22:59:21 Nov 30, 2005

L

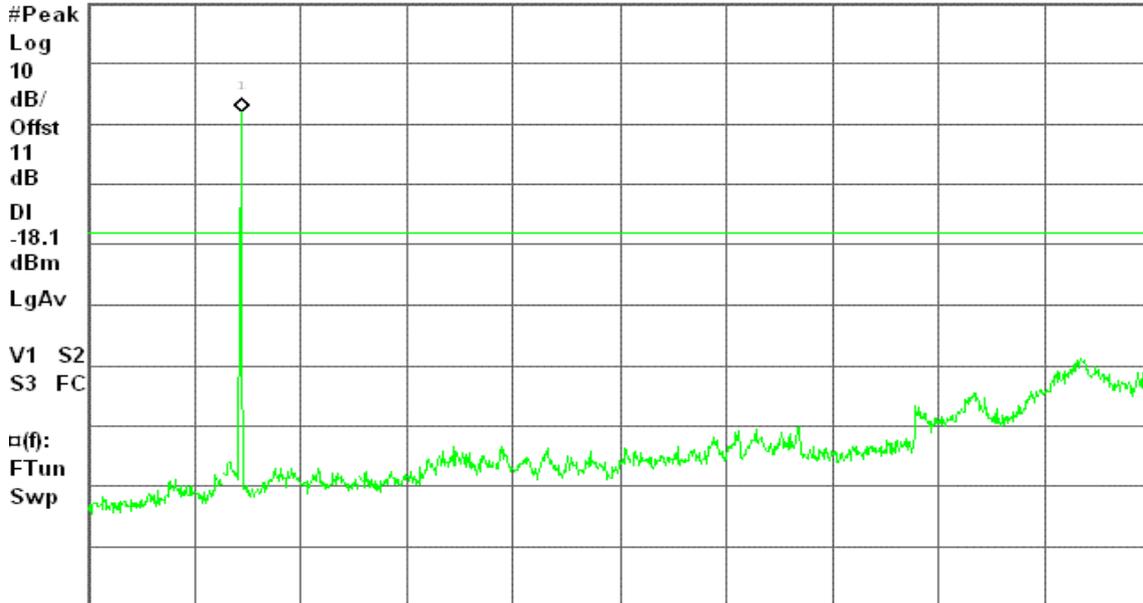
Spurious, a Mode Mid Ch.

Mkr1 5.79 GHz

Ref 20 dBm

Atten 20 dB

1.92 dBm



Center 20.02 GHz

Span 39.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 4.819 s (1001 pts)



IEEE 802.11a / CH High

Agilent 23:06:36 Nov 30, 2005

L

Spurious, a Mode High Ch.

Mkr1 5.83 GHz

Ref 20 dBm

Atten 20 dB

1.20 dBm

#Peak

Log

10

dB/

Offst

11

dB

DI

-18.8

dBm

LgAv

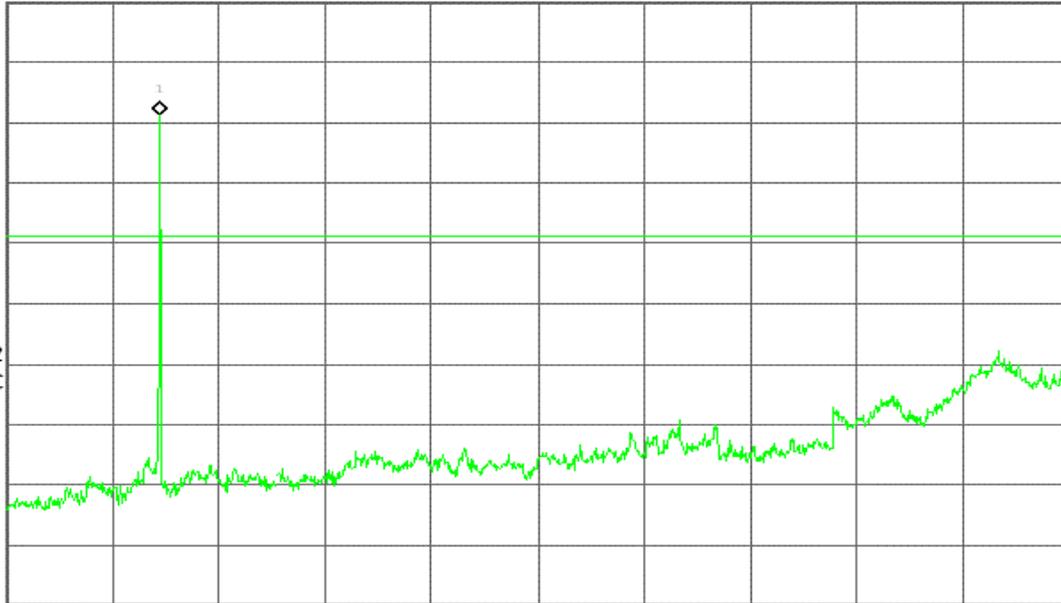
V1 S2

S3 FC

□(f):

FTun

Swp



Center 20.02 GHz

Span 39.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 4.819 s (1001 pts)



Mode 7: Antenna 5+ Module 1

IEEE 802.11b / CH Low

Agilent 19:08:51 Nov 30, 2005

L

Spurious, b Mode Low Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-45.25 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	10.85 dBm
2	(1)	Freq	2.00 GHz	-45.25 dBm
3	(1)	Freq	450 MHz	-53.45 dBm
4	(1)	Freq	4.83 GHz	-53.52 dBm

IEEE 802.11b / CH Mid

Agilent 19:24:00 Nov 30, 2005

L

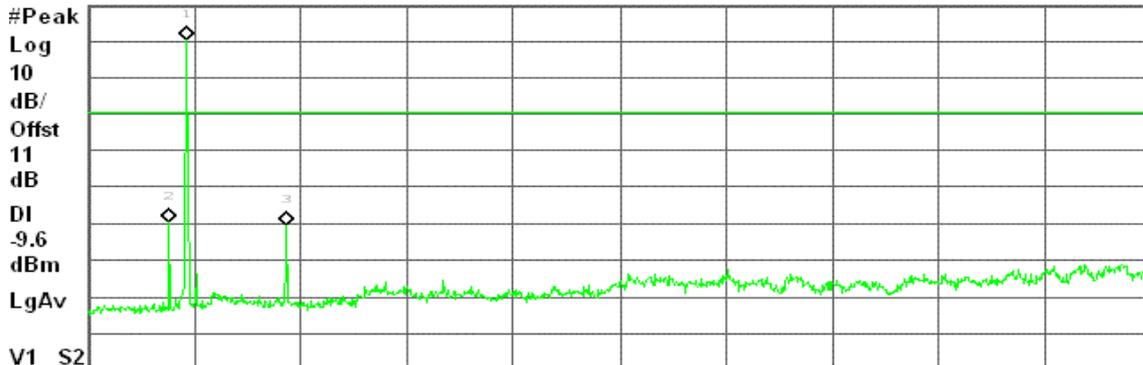
Spurious, b Mode Mid Ch.

Mkr3 4.89 GHz

Ref 20 dBm

Atten 20 dB

-40.79 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.46 GHz	10.44 dBm
2	(1)	Freq	2.00 GHz	-39.94 dBm
3	(1)	Freq	4.89 GHz	-40.79 dBm



IEEE 802.11b / CH High

Agilent 19:31:03 Nov 30, 2005

L

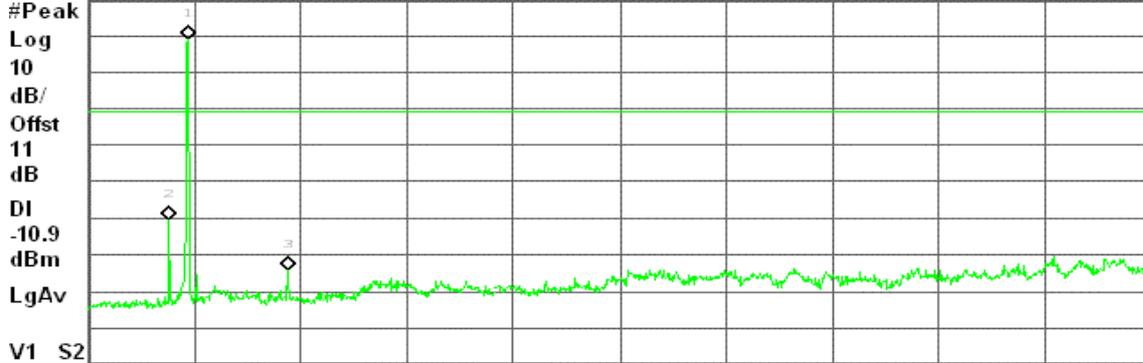
Spurious, b Mode High Ch.

Mkr3 4.91 GHz

Ref 20 dBm

Atten 20 dB

-54.38 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.47 GHz	9.08 dBm
2	(1)	Freq	2.00 GHz	-40.60 dBm
3	(1)	Freq	4.91 GHz	-54.38 dBm

IEEE 802.11g / CH Low

Agilent 18:59:36 Nov 30, 2005

L

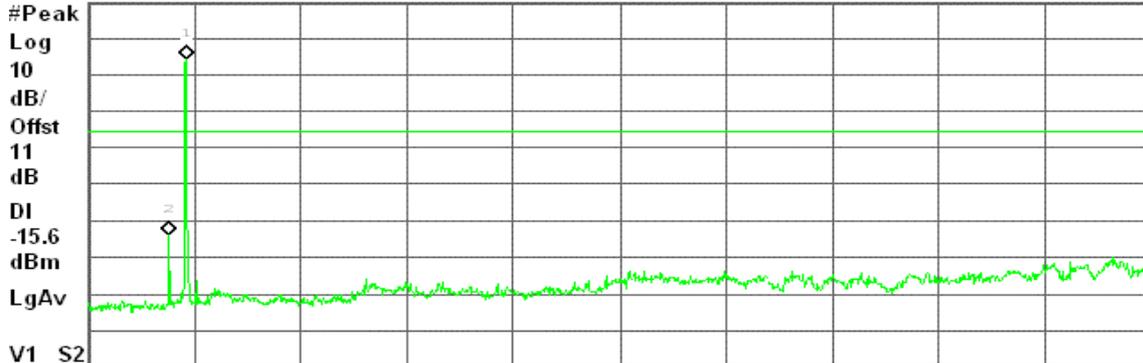
Spurious, g Mode Low Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-44.24 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	4.37 dBm
2	(1)	Freq	2.00 GHz	-44.24 dBm



IEEE 802.11g / CH Mid

Agilent 18:52:17 Nov 30, 2005

L

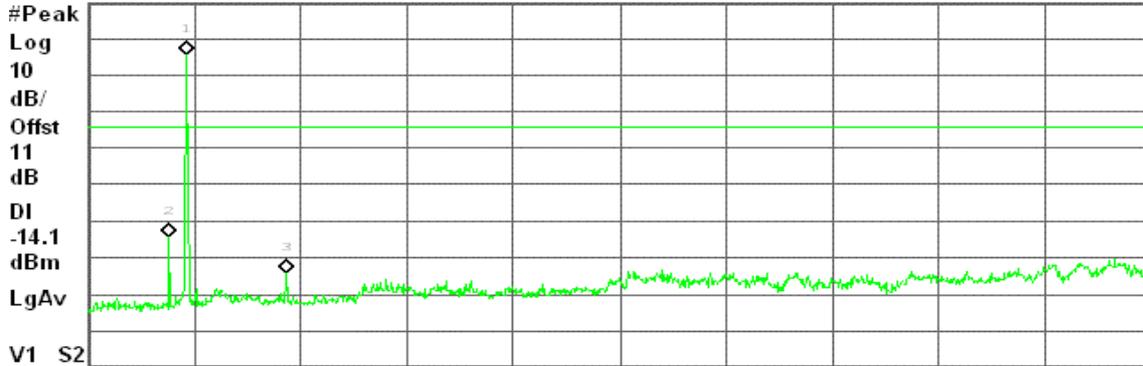
Spurious, g Mode Mid Ch.

Mkr3 4.89 GHz

Ref 20 dBm

Atten 20 dB

-54.43 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.46 GHz	5.89 dBm
2	(1)	Freq	2.00 GHz	-44.50 dBm
3	(1)	Freq	4.89 GHz	-54.43 dBm

IEEE 802.11g / CH High

Agilent 18:40:28 Nov 30, 2005

L

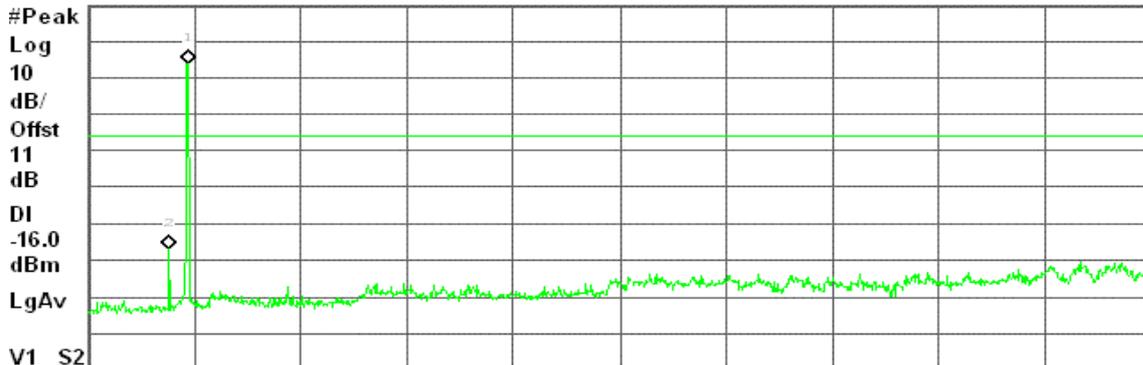
Spurious, g Mode High Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-47.07 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.47 GHz	4.01 dBm
2	(1)	Freq	2.00 GHz	-47.07 dBm



Mode 8: Antenna 5+ Module 2

IEEE 802.11b / CH Low

Agilent 22:05:13 Nov 30, 2005

L

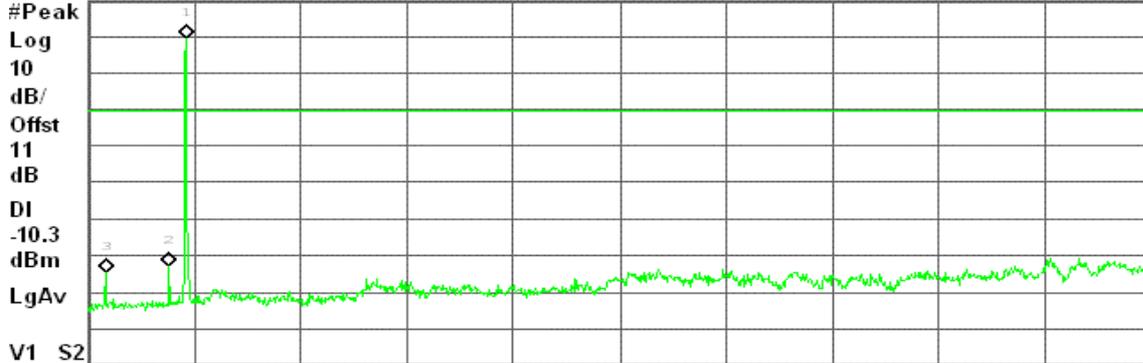
Spurious, b Mode Low Ch.

Mkr3 450 MHz

Ref 20 dBm

Atten 20 dB

-54.68 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	9.68 dBm
2	(1)	Freq	2.00 GHz	-53.37 dBm
3	(1)	Freq	450 MHz	-54.68 dBm

IEEE 802.11b / CH Mid

Agilent 22:12:45 Nov 30, 2005

L

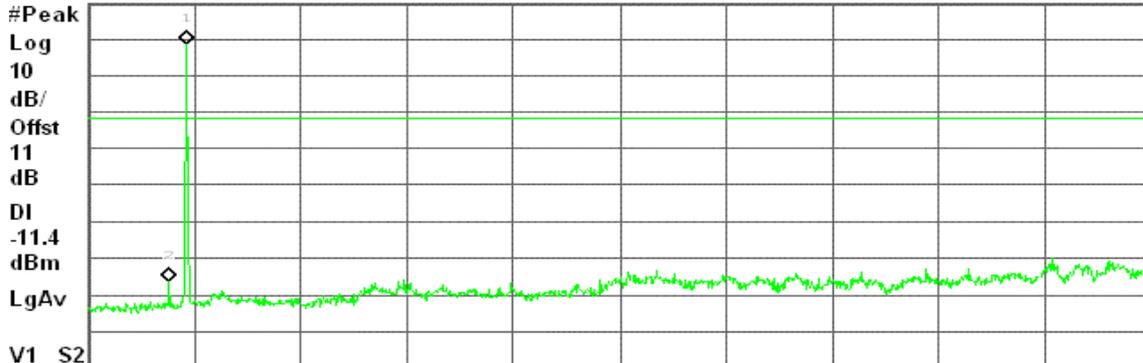
Spurious, b Mode Mid Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-56.69 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.46 GHz	8.61 dBm
2	(1)	Freq	2.00 GHz	-56.69 dBm



IEEE 802.11b / CH High

Agilent 22:20:23 Nov 30, 2005

L

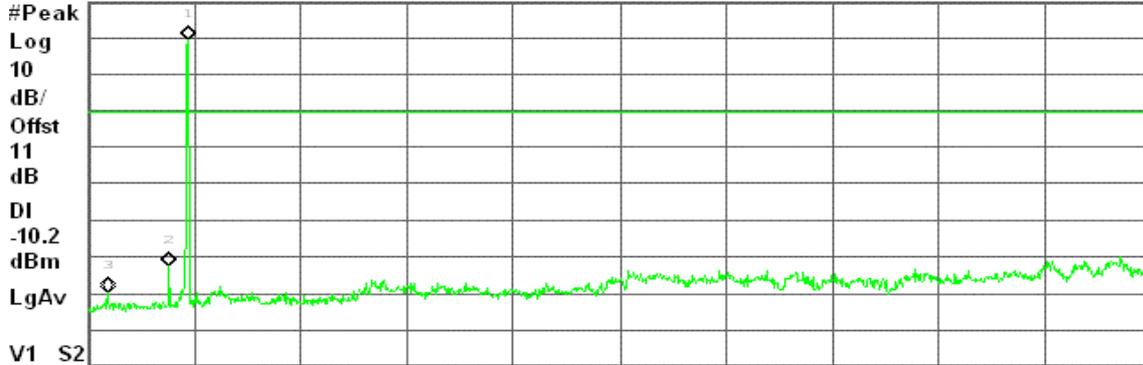
Spurious, b Mode High Ch.

Mkr3 500 MHz

Ref 20 dBm

Atten 20 dB

-59.46 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.47 GHz	9.82 dBm
2	(1)	Freq	2.00 GHz	-52.73 dBm
3	(1)	Freq	500 MHz	-59.46 dBm

IEEE 802.11g / CH Low

Agilent 22:44:26 Nov 30, 2005

L

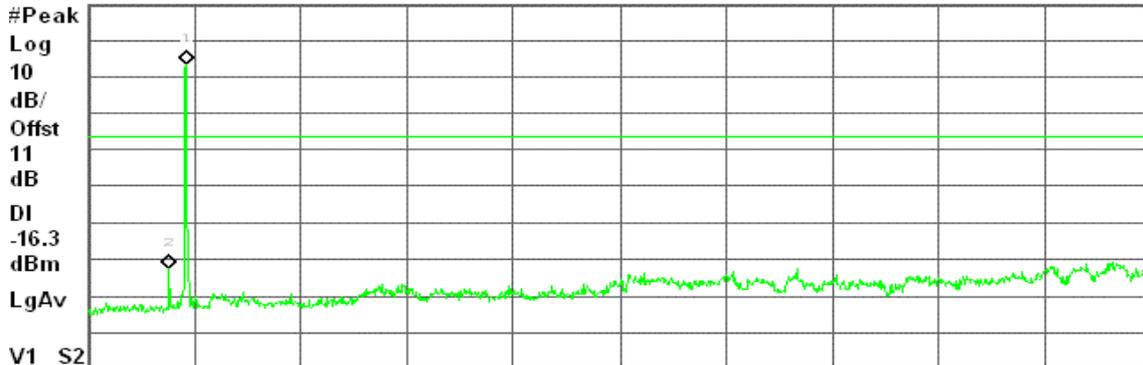
Spurious, g Mode Low Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-52.91 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	3.72 dBm
2	(1)	Freq	2.00 GHz	-52.91 dBm



IEEE 802.11g / CH Mid

Agilent 22:35:33 Nov 30, 2005

L

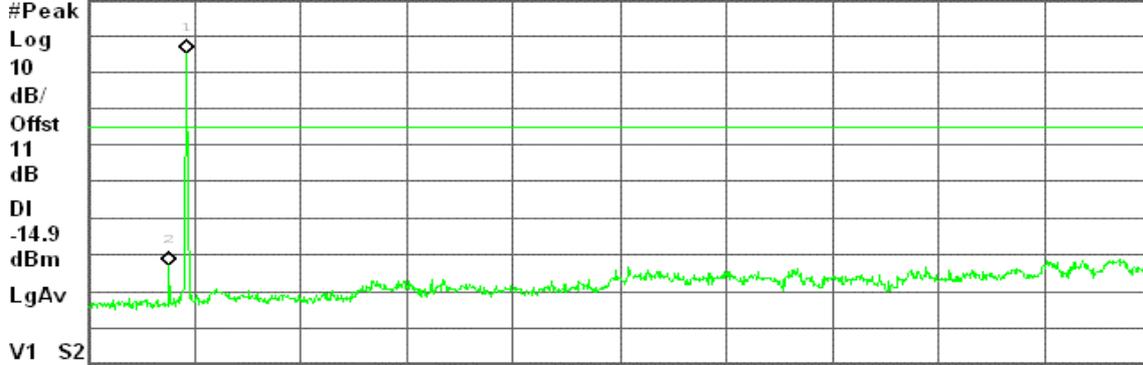
Spurious, g Mode Mid Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-53.32 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	5.10 dBm
2	(1)	Freq	2.00 GHz	-53.32 dBm

IEEE 802.11g / CH High

Agilent 22:27:50 Nov 30, 2005

L

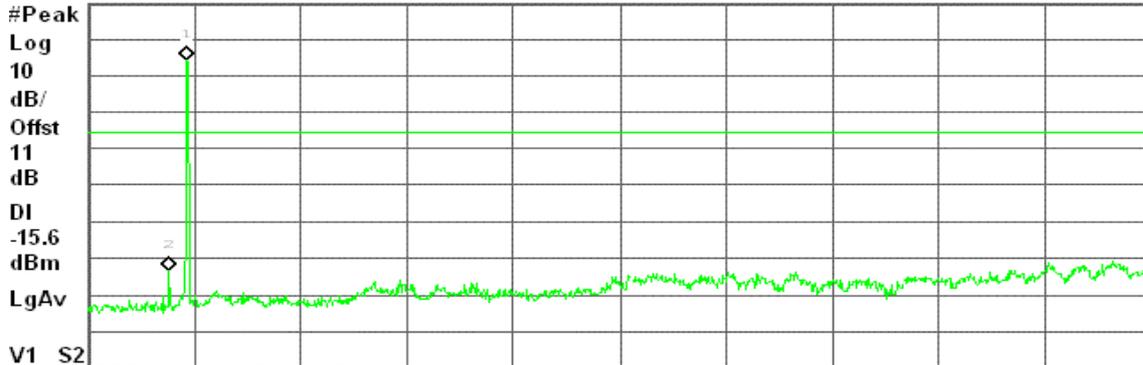
Spurious, g Mode High Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-53.61 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	4.38 dBm
2	(1)	Freq	2.00 GHz	-53.61 dBm



IEEE 802.11a / CH Low

Agilent 23:27:24 Nov 30, 2005

L

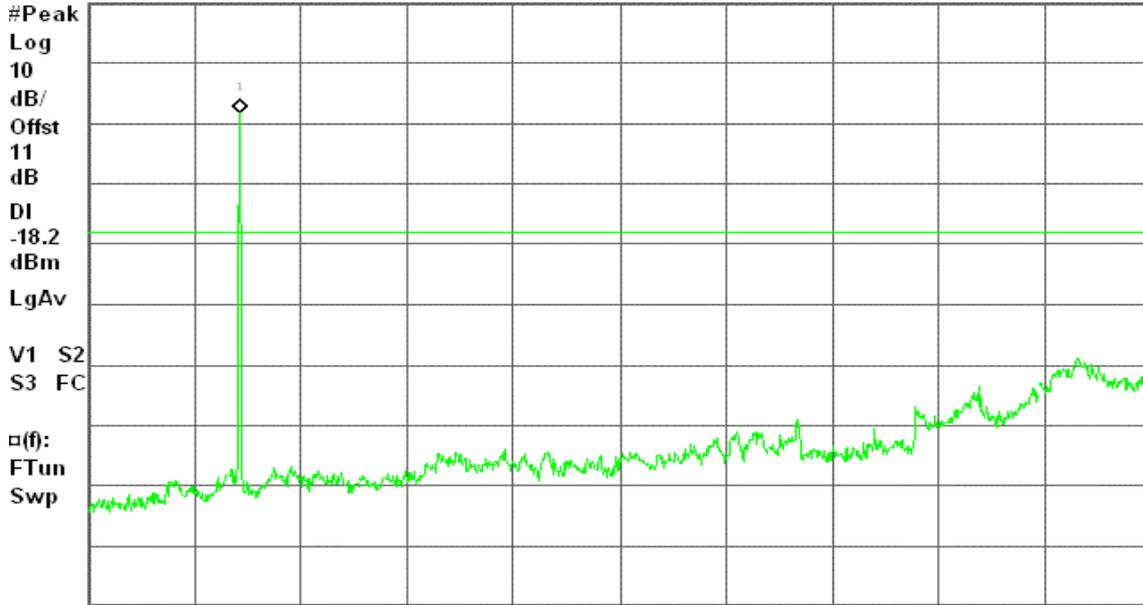
Spurious, a Mode Low Ch.

Mkr1 5.75 GHz

Ref 20 dBm

Atten 20 dB

1.76 dBm



Center 20.02 GHz

Span 39.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 4.819 s (1001 pts)

IEEE 802.11a / CH Mid

Agilent 23:21:11 Nov 30, 2005

L

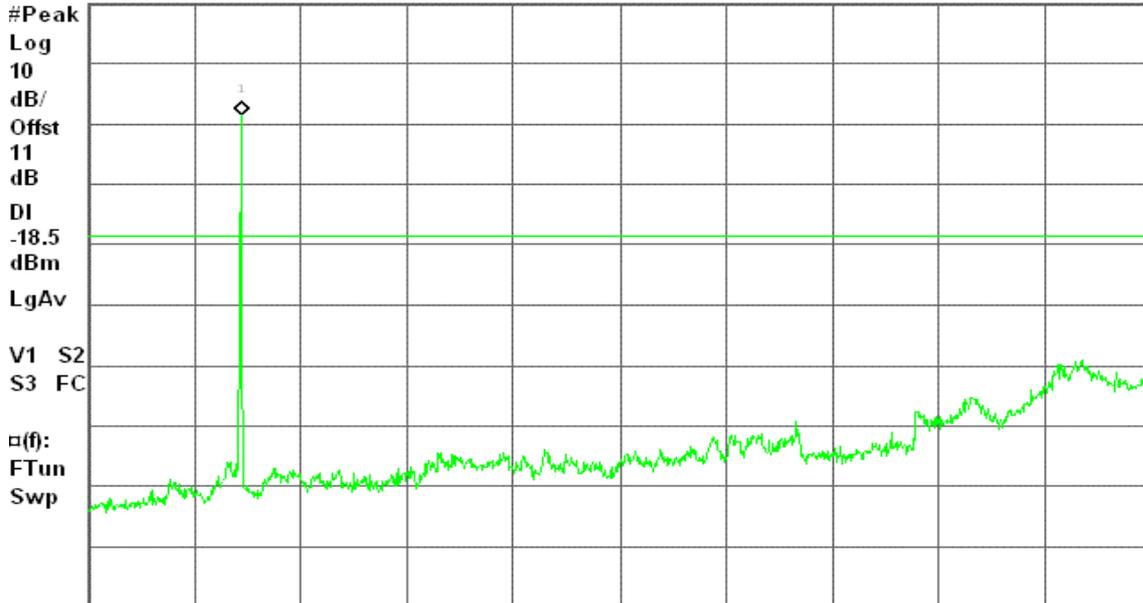
Spurious, a Mode Mid Ch.

Mkr1 5.79 GHz

Ref 20 dBm

Atten 20 dB

1.45 dBm



Center 20.02 GHz

Span 39.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 4.819 s (1001 pts)



IEEE 802.11a / CH High

Agilent 23:15:19 Nov 30, 2005

L

Spurious, a Mode High Ch.

Mkr1 5.83 GHz

Ref 20 dBm

Atten 20 dB

1.27 dBm

#Peak

Log

10

dB/

Offst

11

dB

DI

-18.7

dBm

LgAv

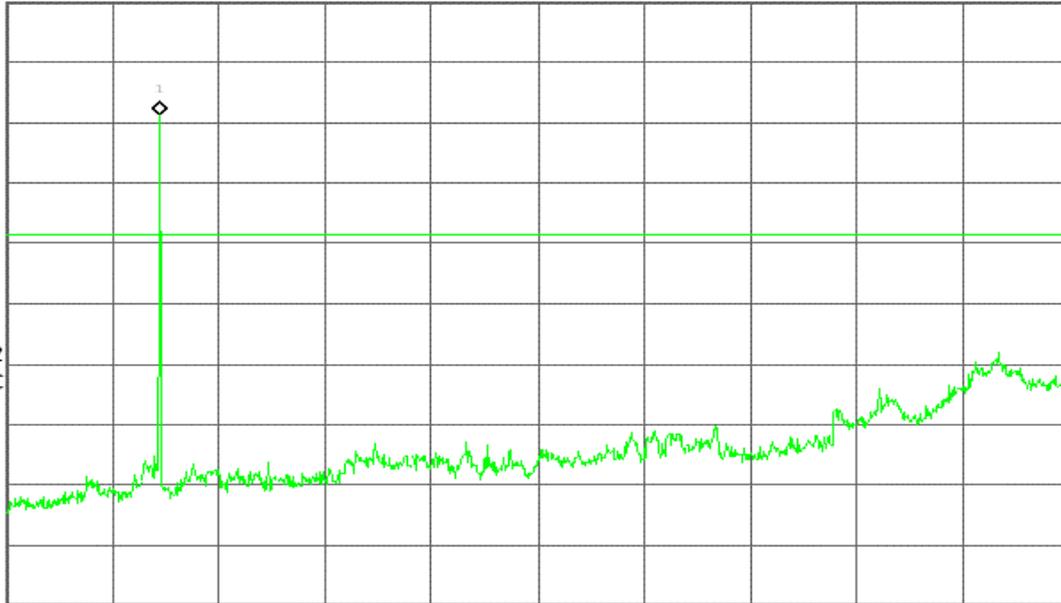
V1 S2

S3 FC

$\alpha(f)$:

FTun

Swp



Center 20.02 GHz

Span 39.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 4.819 s (1001 pts)



Mode 9: Antenna 6+ Module 2

IEEE 802.11a / CH Low

Agilent 23:44:34 Nov 30, 2005

L

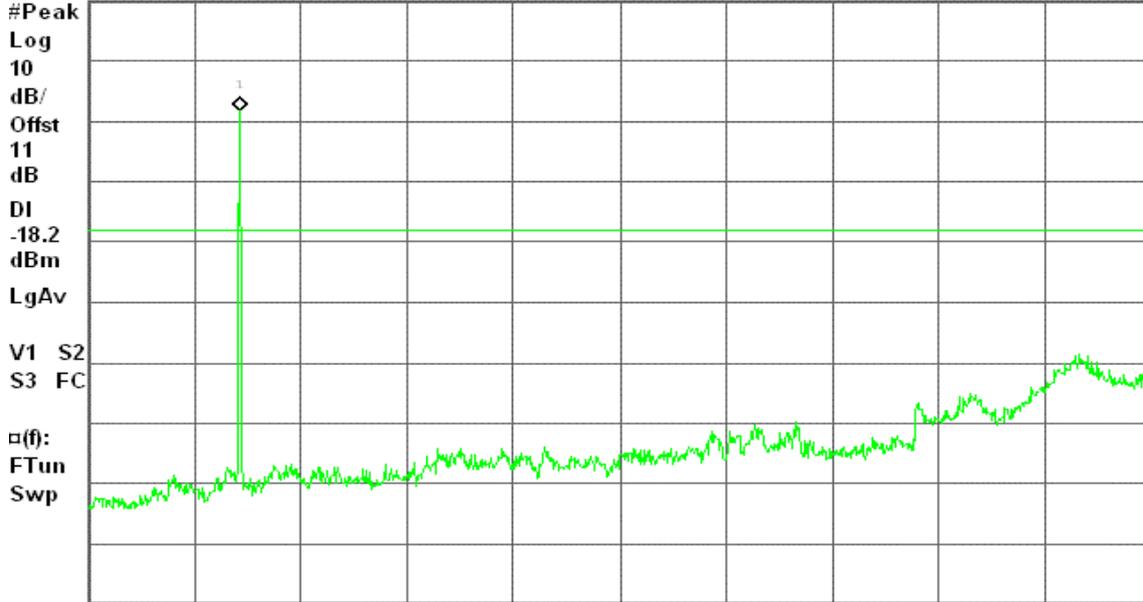
Spurious, a Mode Low Ch.

Mkr1 5.75 GHz

1.76 dBm

Ref 20 dBm

Atten 20 dB



Center 20.02 GHz

Span 39.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 4.819 s (1001 pts)

IEEE 802.11a / CH Mid

Agilent 23:50:07 Nov 30, 2005

L

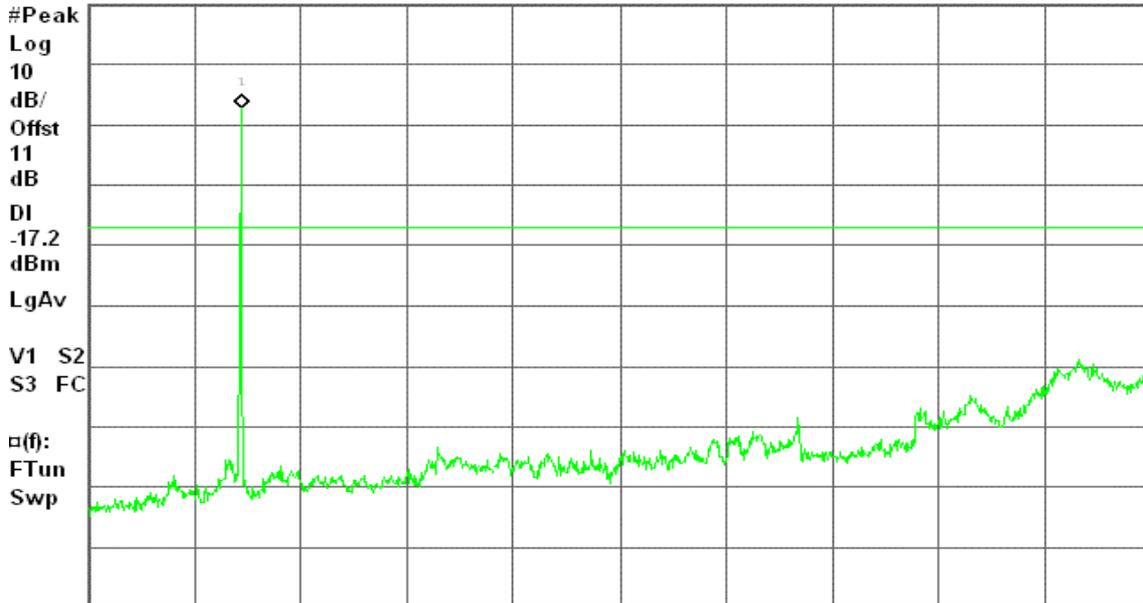
Spurious, a Mode Mid Ch.

Mkr1 5.79 GHz

2.82 dBm

Ref 20 dBm

Atten 20 dB



Center 20.02 GHz

Span 39.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 4.819 s (1001 pts)



IEEE 802.11a / CH High

Agilent 23:55:41 Nov 30, 2005

L

Spurious, a Mode High Ch.

Mkr1 5.83 GHz

Ref 20 dBm

Atten 20 dB

1.44 dBm

#Peak

Log

10

dB/

Offst

11

dB

DI

-18.6

dBm

LgAv

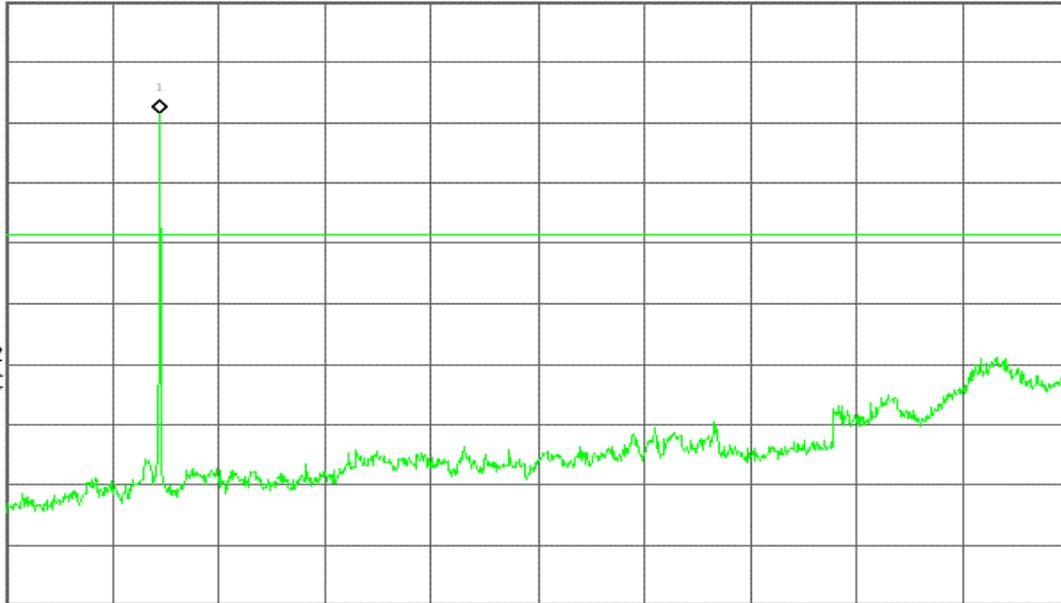
V1 S2

S3 FC

□(f):

FTun

Swp



Center 20.02 GHz

Span 39.97 GHz

#Res BW 100 kHz

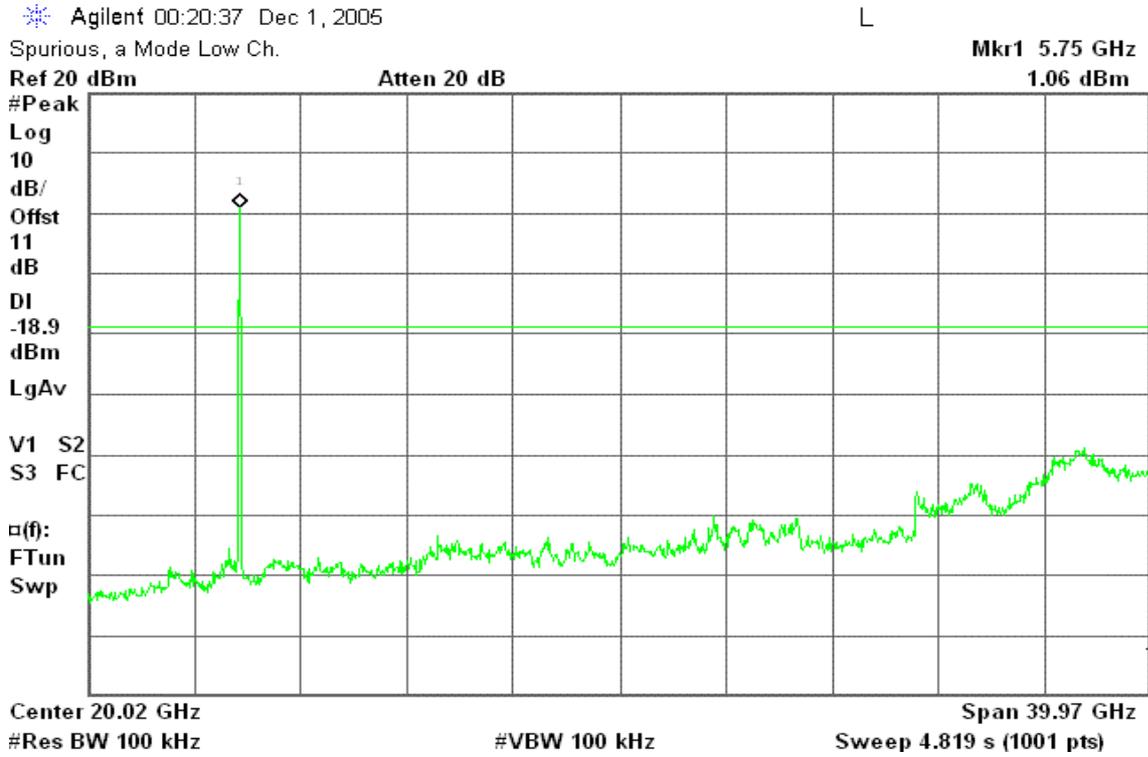
#VBW 100 kHz

Sweep 4.819 s (1001 pts)

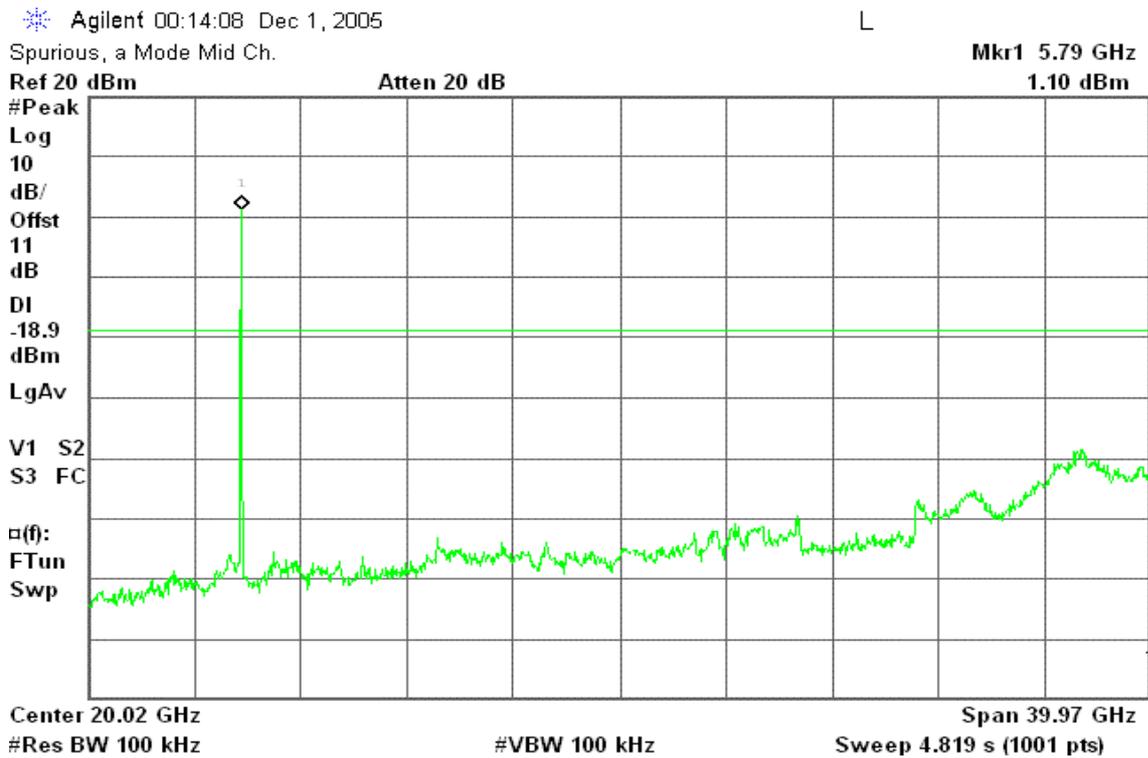


Mode 10: Antenna 7+ Module 2

IEEE 802.11a / CH Low



IEEE 802.11a / CH Mid





IEEE 802.11a / CH High

Agilent 00:07:14 Dec 1, 2005

L

Spurious, a Mode High Ch.

Mkr1 5.83 GHz

Ref 20 dBm

Atten 20 dB

1.22 dBm

#Peak

Log

10

dB/

Offst

11

dB

DI

-18.8

dBm

LgAv

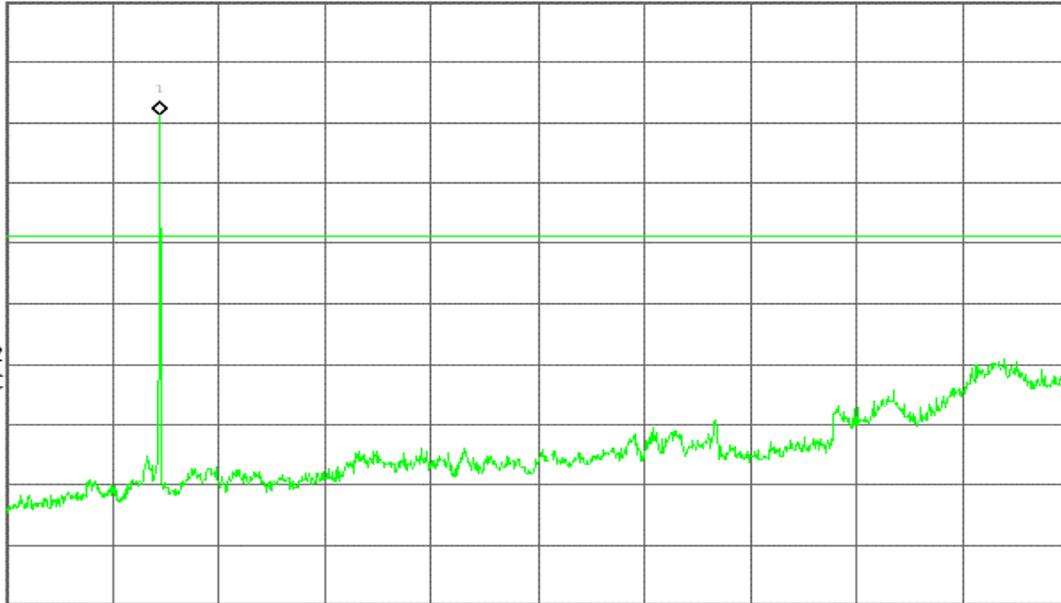
V1 S2

S3 FC

□(f):

FTun

Swp



Center 20.02 GHz

Span 39.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 4.819 s (1001 pts)



Mode 11: Antenna 9+ Module 1

IEEE 802.11b / CH Low

Agilent 16:02:18 Dec 4, 2005

L

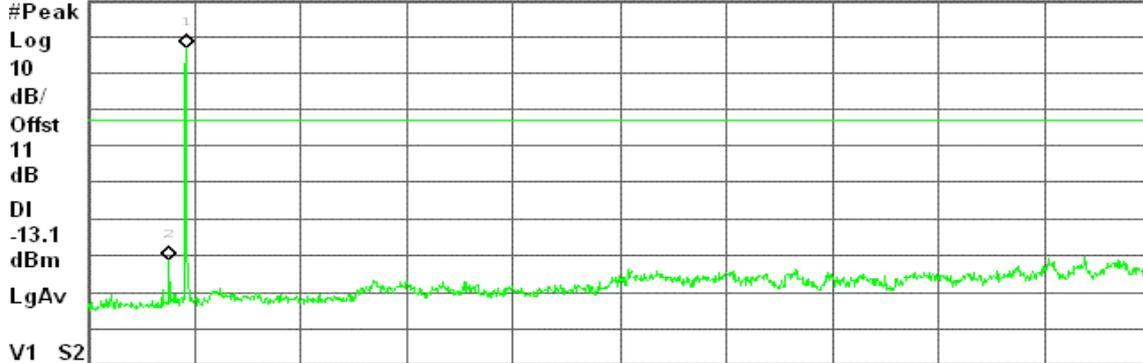
Spurious, b Mode Low Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-51.35 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	6.91 dBm
2	(1)	Freq	2.00 GHz	-51.35 dBm

IEEE 802.11b / CH Mid

Agilent 16:07:52 Dec 4, 2005

L

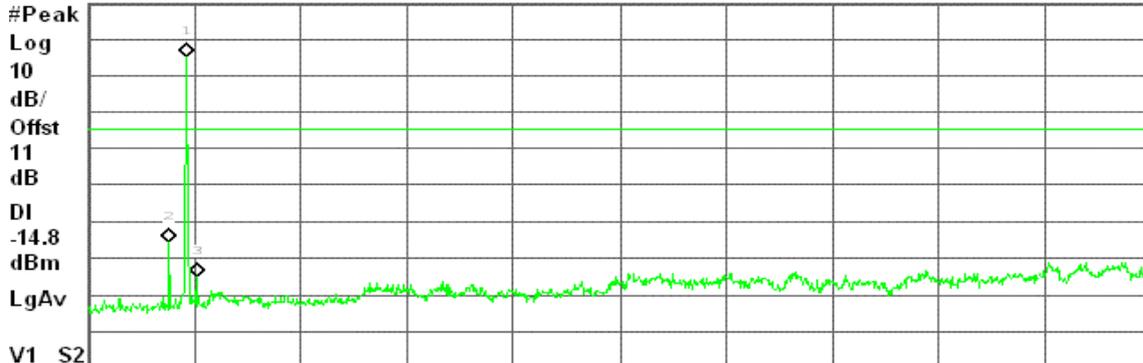
Spurious, b Mode Mid Ch.

Mkr3 2.68 GHz

Ref 20 dBm

Atten 20 dB

-55.47 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.46 GHz	5.23 dBm
2	(1)	Freq	2.00 GHz	-45.72 dBm
3	(1)	Freq	2.68 GHz	-55.47 dBm



IEEE 802.11b / CH High

Agilent 16:13:26 Dec 4, 2005

L

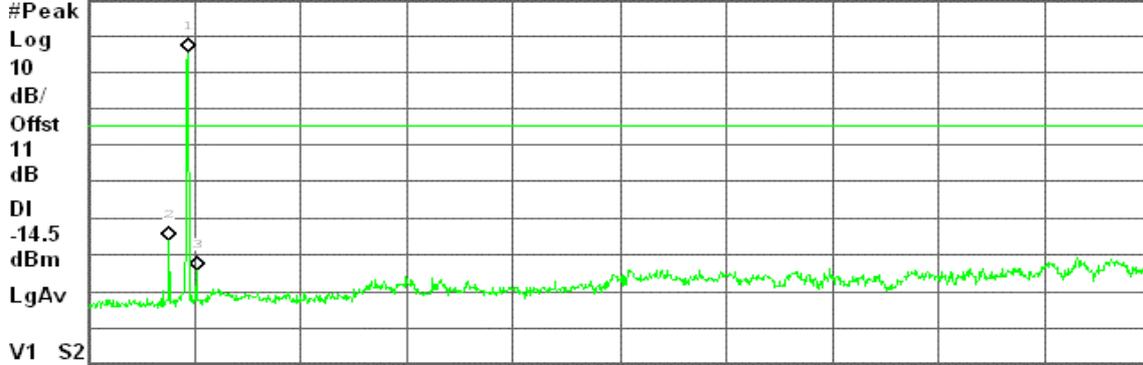
Spurious, b Mode High Ch.

Mkr3 2.68 GHz

Ref 20 dBm

Atten 20 dB

-54.38 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.47 GHz	5.50 dBm
2	(1)	Freq	2.00 GHz	-46.30 dBm
3	(1)	Freq	2.68 GHz	-54.38 dBm

IEEE 802.11g / CH Low

Agilent 16:34:11 Dec 4, 2005

L

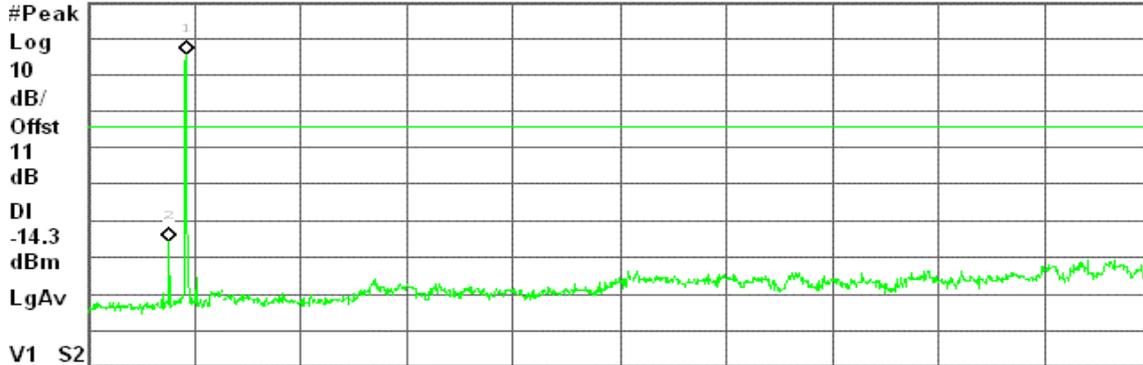
Spurious, g Mode Low Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-45.79 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.42 GHz	5.66 dBm
2	(1)	Freq	2.00 GHz	-45.79 dBm



IEEE 802.11g / CH Mid

Agilent 16:29:07 Dec 4, 2005

L

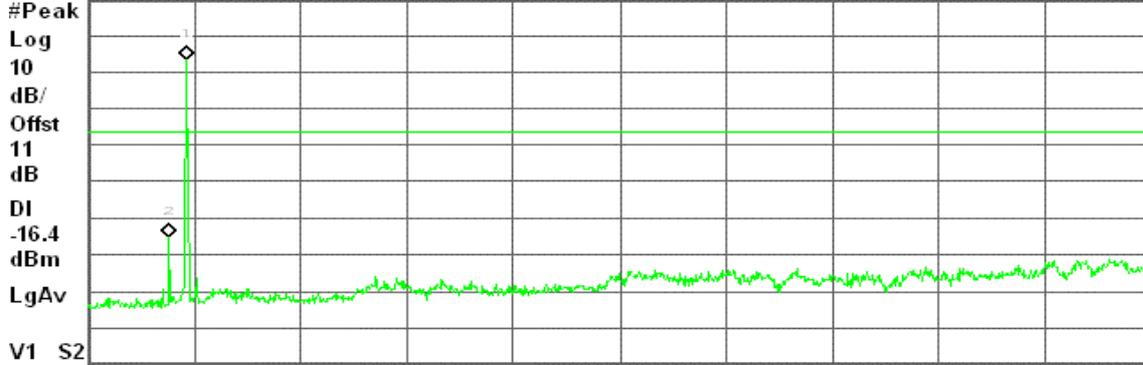
Spurious, g Mode Mid Ch.

Mkr2 2.00 GHz

Ref 20 dBm

Atten 20 dB

-45.48 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	3.56 dBm
2	(1)	Freq	2.00 GHz	-45.48 dBm

IEEE 802.11g / CH High

Agilent 16:21:06 Dec 4, 2005

L

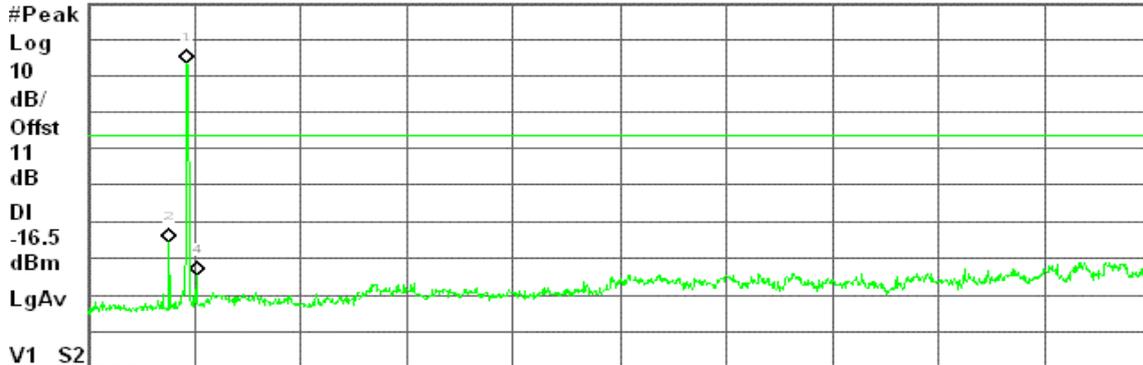
Spurious, g Mode High Ch.

Mkr4 2.68 GHz

Ref 20 dBm

Atten 20 dB

-54.71 dBm



Center 13.02 GHz

Span 25.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

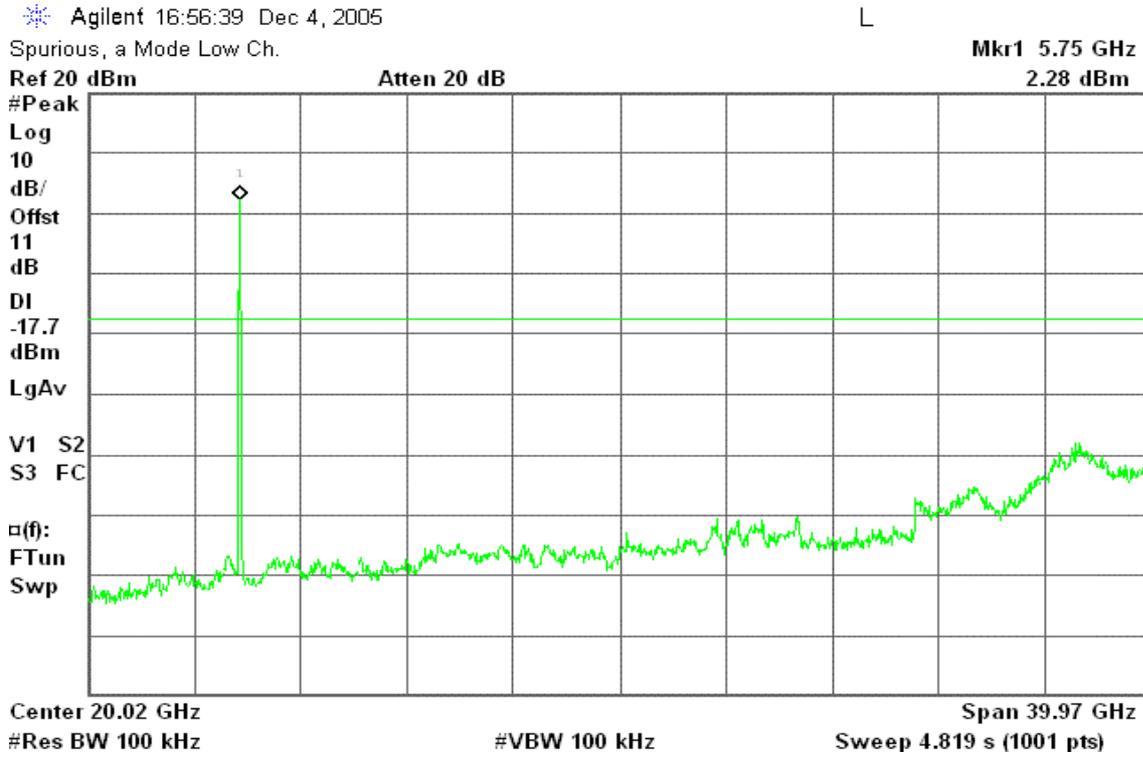
Sweep 3.131 s (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.45 GHz	3.54 dBm
2	(1)	Freq	2.00 GHz	-46.00 dBm
4	(1)	Freq	2.68 GHz	-54.71 dBm

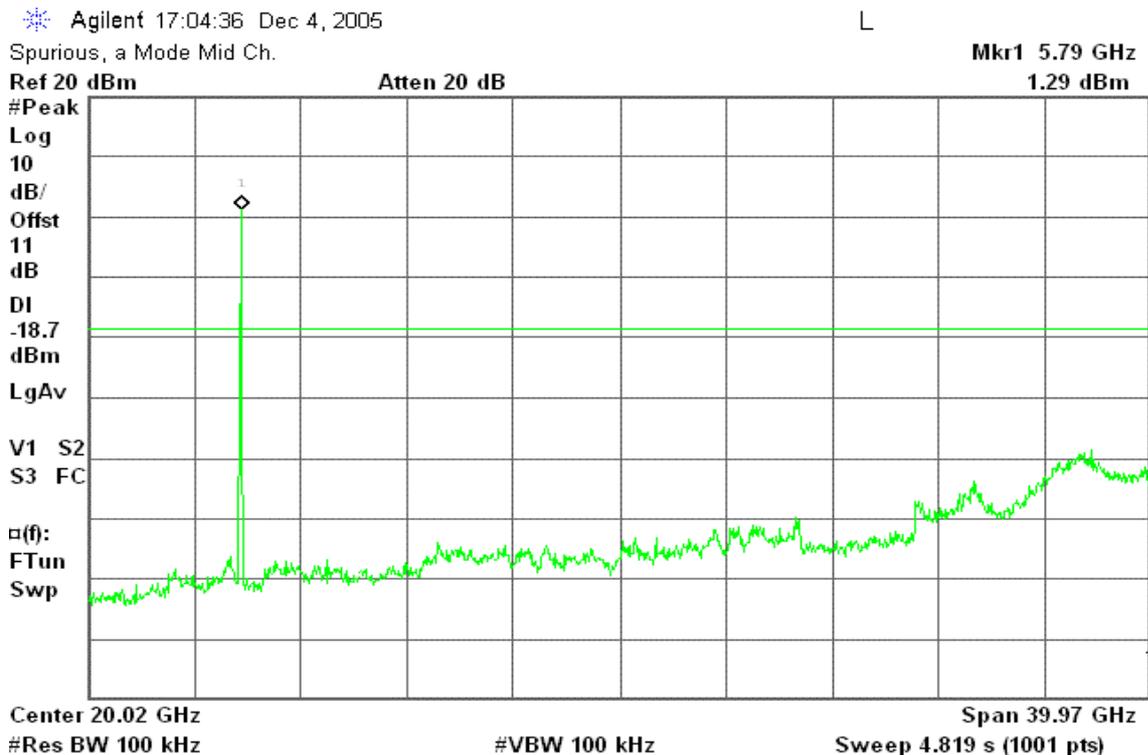


Mode 12: Antenna 11+ Module 2

IEEE 802.11a / CH Low



IEEE 802.11a / CH Mid





IEEE 802.11a / CH High

Agilent 17:09:45 Dec 4, 2005

R L

Spurious, a Mode High Ch.

Mkr1 5.83 GHz

Ref 20 dBm

Atten 20 dB

4.18 dBm

#Peak

Log

10

dB/

Offst

11

dB

DI

-15.8

dBm

LgAv

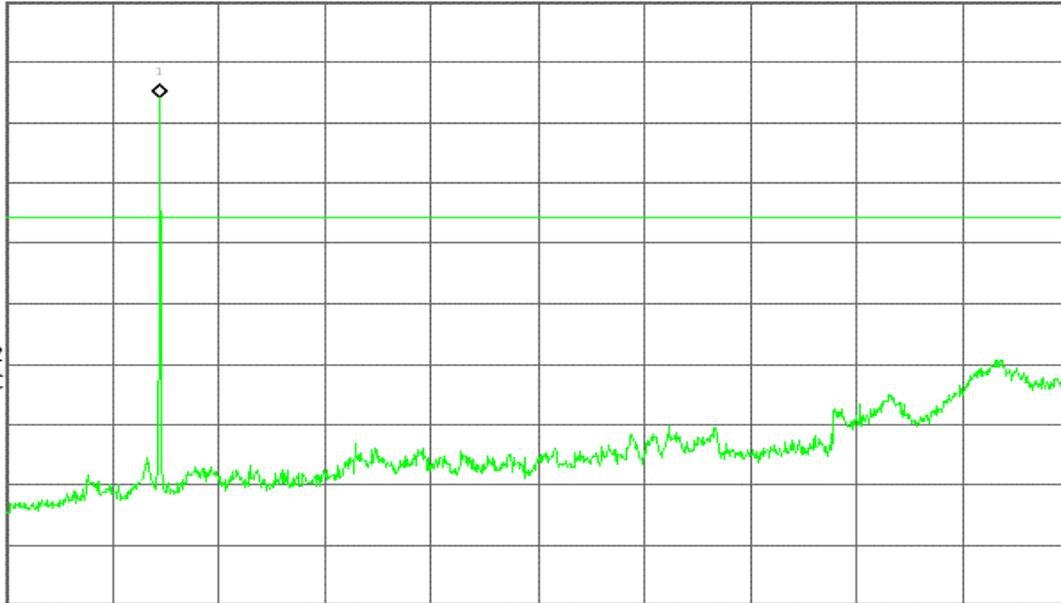
V1 S2

S3 FC

□(f):

FTun

Swp



Center 20.02 GHz

Span 39.97 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 4.819 s (1001 pts)



7.6.2 Radiated Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

LIMIT

1. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

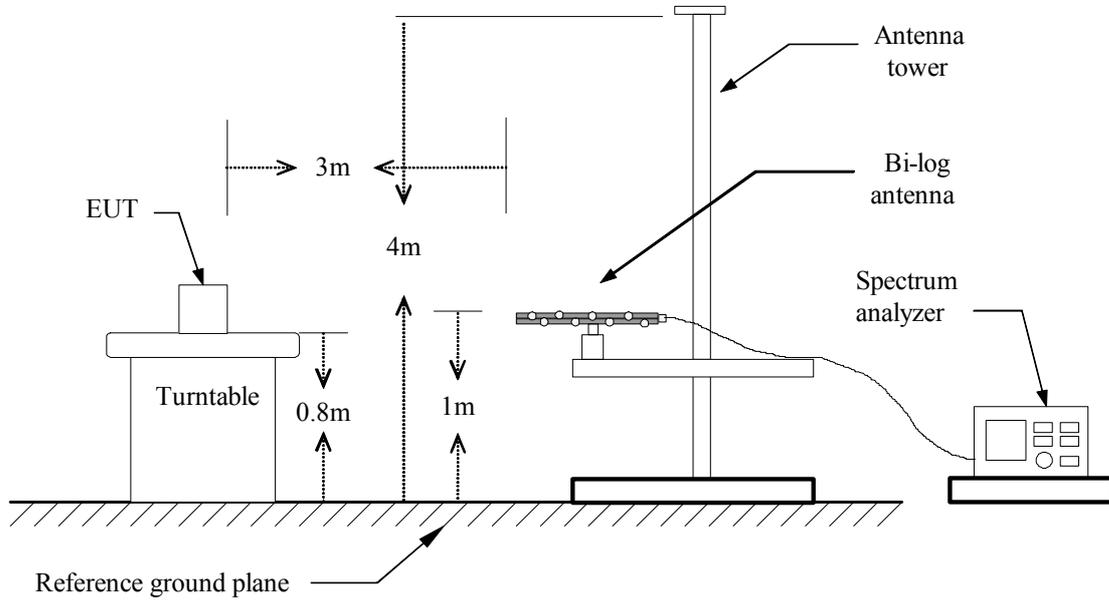
Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

2. In the above emission table, the tighter limit applies at the band edges.

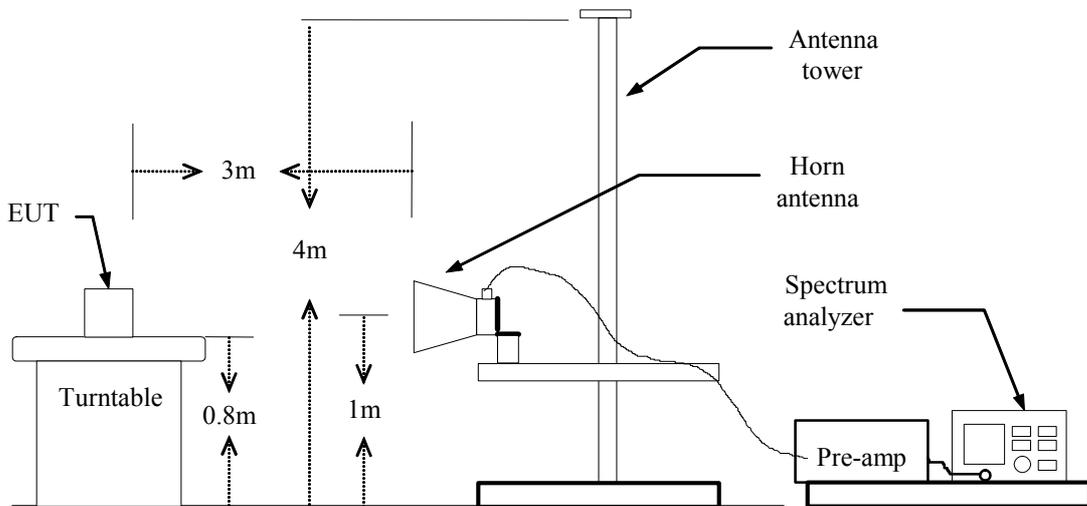
Frequency (MHz)	Field Strength (µV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Test Configuration

Below 1 GHz



Above 1 GHz





TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
Below 1GHz:
RBW=100kHz / VBW=300kHz / Sweep=AUTO
Above 1GHz:
(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.



TEST RESULTS

Below 1 GHz

Operation Mode: Normal Link

Test Date: December 2, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 55% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
81.73	V	59.51	-25.58	33.93	40.00	-6.07	Peak
400.22	V	47.61	-16.06	31.55	46.00	-14.45	Peak
500.45	V	49.03	-13.43	35.60	46.00	-10.40	Peak
600.68	V	45.08	-12.41	32.67	46.00	-13.33	Peak
699.30	V	40.97	-10.78	30.19	46.00	-15.81	Peak
1000.00	V	40.91	-6.78	34.13	74.00	-39.87	Peak
157.72	H	48.80	-20.61	28.19	43.50	-15.31	Peak
199.75	H	50.28	-19.80	30.48	43.50	-13.02	Peak
243.40	H	53.39	-20.45	32.94	46.00	-13.06	Peak
500.45	H	43.48	-13.43	30.05	46.00	-15.95	Peak
600.68	H	43.52	-12.41	31.12	46.00	-14.88	Peak
799.53	H	42.87	-9.32	33.55	46.00	-12.45	Peak

Remark:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/Quasi-peak detector mode.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. The IF bandwidth of SPA from 30MHz to 1GHz was 100 kHz.

**Above 1 GHz****Mode 1: Antenna 2+ Module 1****Operation Mode:** Tx / IEEE 802.11b / CH Low**Test Date:** November 23, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2410.00	V	120.34	112.40	-5.10	115.24	107.30	Fundamental			
4825.00	V	40.74	---	0.64	41.37	---	74.00	54.00	-12.63	Peak
9650.00	V	68.13	---	-24.72	43.40	---	74.00	54.00	-10.60	Peak
12058.33	V	73.06	---	-23.06	50.00	---	74.00	54.00	-4.00	Peak
14475.00	V	66.27	---	-21.59	44.68	---	74.00	54.00	-9.32	Peak
N/A										
2413.33	H	104.18	96.36	-5.09	99.09	91.27	Fundamental			
9650.00	H	63.09	---	-24.72	38.36	---	74.00	54.00	-15.64	Peak
12058.33	H	65.73	---	-23.06	42.67	---	74.00	54.00	-11.33	Peak
14475.00	H	59.96	---	-21.59	38.36	---	74.00	54.00	-15.64	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11b / CH Mid

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2436.67	V	121.39	113.28	-5.04	116.35	108.24	Fundamental			
4875.00	V	50.70	---	0.81	51.51	---	74.00	54.00	-2.49	Peak
9750.00	V	86.09	82.27	-24.77	61.32	57.50	96.35	78.24	-20.74	30dBc AVG Fundamental
12191.67	V	74.46	---	-22.87	51.59	---	96.35	78.24	-44.76	20dBc Peak Fundamental
N/A										
2436.67	H	103.11	95.38	-5.04	98.07	90.34	Fundamental			
4875.00	H	38.73	---	0.81	39.55	---	74.00	54.00	-14.45	Peak
9750.00	H	80.75	76.51	-24.77	55.98	51.74	78.07	60.34	-8.60	AVG
12183.33	H	66.90	---	-22.88	44.02	---	74.00	54.00	-9.98	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11b / CH High

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2463.33	V	120.94	113.02	-4.97	115.97	108.05	Fundamental			
2236.67	V	60.33	46.92	-5.53	54.80	41.39	74.00	54.00	-12.61	AVG
7383.33	V	38.70	---	5.48	44.18	---	74.00	54.00	-9.82	Peak
9850.00	V	76.87	---	-24.81	52.06	---	95.97	78.05	-43.91	20dBc Peak Fundamental
12308.33	V	74.53	---	-22.70	51.83	---	95.97	78.05	-44.14	20dBc Peak Fundamental
14775.00	V	63.93	---	-19.06	44.87	---	74.00	54.00	-9.13	Peak
N/A										
2460.00	H	102.83	95.07	-4.98	97.85	90.09	Fundamental			
2236.67	H	57.94	---	-5.53	52.41	---	74.00	54.00	-1.59	Peak
9850.00	H	69.30	---	-24.81	44.49	---	74.00	54.00	-9.51	Peak
12308.33	H	65.86	---	-22.70	43.16	---	74.00	54.00	-10.84	Peak
14775.00	H	62.87	---	-19.06	43.82	---	74.00	54.00	-10.18	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Low

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2410.00	V	119.08	107.21	-5.10	113.98	102.11	Fundamental			
9658.33	V	65.54	---	-24.73	40.81	---	74.00	54.00	-13.19	Peak
12058.33	V	62.12	---	-23.06	39.06	---	74.00	54.00	-14.94	Peak
N/A										
2413.33	H	102.47	90.60	-5.09	97.38	85.51	Fundamental			
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Mid

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2440.00	V	120.49	108.19	-5.03	115.46	103.16	Fundamental			
4875.00	V	39.77	---	0.81	40.58	---	74.00	54.00	-13.42	Peak
9750.00	V	80.48	66.16	-24.77	55.71	41.39	74.00	54.00	-12.61	AVG
12183.33	V	63.48	---	-22.88	40.60	---	74.00	54.00	-13.40	Peak
N/A										
2440.00	H	102.08	89.67	-5.03	97.05	84.64	Fundamental			
9733.33	H	67.27	---	-24.76	42.51	---	74.00	54.00	-11.49	Peak
12175.00	H	63.63	---	-22.89	40.74	---	74.00	54.00	-13.26	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH High

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	117.60	105.54	-4.98	112.62	100.56	Fundamental			
9850.00	V	69.20	---	-24.81	44.38	---	74.00	54.00	-9.62	Peak
12308.33	V	64.09	---	-22.70	41.39	---	74.00	54.00	-12.61	Peak
N/A										
2460.00	H	96.91	85.32	-4.98	91.93	80.34	Fundamental			
9841.67	H	65.62	---	-24.81	40.81	---	74.00	54.00	-13.19	Peak
12308.33	H	63.41	---	-22.70	40.71	---	74.00	54.00	-13.29	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Mode 2: Antenna 2+ Module 2

Operation Mode: Tx / IEEE 802.11b / CH Low

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2413.33	V	120.38	112.69	-5.09	115.29	107.60	Fundamental			
4825.00	V	39.79	---	0.64	40.43	---	74.00	54.00	-13.57	Peak
9650.00	V	76.34	---	-24.72	51.62	---	95.29	77.60	-43.97	20dBc Peak Fundamental
12058.33	V	73.80	---	-23.06	50.74	---	95.29	77.60	-44.55	20dBc Peak Fundamental
14475.00	V	69.70	---	-21.59	48.11	---	74.00	54.00	-5.89	Peak
N/A										
2413.33	H	105.94	98.08	-5.09	100.85	92.99	Fundamental			
9650.00	H	73.60	---	-24.72	48.88	---	74.00	54.00	-5.12	Peak
14475.00	H	58.64	---	-21.59	37.05	---	74.00	54.00	-16.95	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11b / CH Mid

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2436.67	V	119.28	111.51	-5.04	114.24	106.47	Fundamental			
4875.00	V	41.20	---	0.81	42.02	---	74.00	54.00	-11.98	Peak
9750.00	V	79.63	76.04	-24.77	54.86	51.27	94.24	76.47	-25.20	30dBc AVG Fundamental
12183.33	V	73.03	---	-22.88	50.15	---	94.24	76.47	-44.09	20dBc Peak Fundamental
N/A										
2436.67	H	106.46	98.56	-5.04	101.42	93.52	Fundamental			
4875.00	H	38.73	---	0.81	39.55	---	74.00	54.00	-14.45	Peak
9750.00	H	75.60	---	-24.77	50.83	---	81.42	63.52	-30.59	20dBc Peak Fundamental
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11b / CH High

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	119.90	112.04	-4.98	114.92	107.06	Fundamental			
9850.00	V	75.58	---	-24.81	50.77	---	94.92	77.06	-44.15	20dBc Peak Fundamental
12316.67	V	73.46	---	-22.69	50.77	---	94.92	77.06	-44.15	20dBc Peak Fundamental
14775.00	V	59.52	---	-19.06	40.46	---	74.00	54.00	-13.54	Peak
N/A										
2460.00	H	107.94	100.15	-4.98	102.96	95.17	Fundamental			
9850.00	H	67.90	---	-24.81	43.08	---	74.00	54.00	-10.92	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Low

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2410.00	V	118.04	105.77	-5.10	112.94	100.67	Fundamental			
9650.00	V	64.77	---	-24.72	40.05	---	74.00	54.00	-13.95	Peak
12058.33	V	64.98	---	-23.06	41.92	---	74.00	54.00	-12.08	Peak
N/A										
2410.00	H	107.38	95.52	-5.10	102.28	90.42	Fundamental			
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Mid

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2440.00	V	117.67	105.69	-5.03	112.64	100.66	Fundamental			
9750.00	V	67.57	---	-24.77	42.80	---	74.00	54.00	-11.20	Peak
12191.67	V	65.83	---	-22.87	42.96	---	74.00	54.00	-11.04	Peak
N/A										
2440.00	H	101.27	88.96	-5.03	96.24	83.93	Fundamental			
9741.67	H	64.09	---	-24.76	39.32	---	74.00	54.00	-14.68	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH High

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2463.33	V	115.13	102.95	-4.97	110.16	97.98	Fundamental			
9841.67	V	65.10	---	-24.81	40.29	---	74.00	54.00	-13.71	Peak
12308.33	V	65.75	---	-22.70	43.04	---	74.00	54.00	-10.96	Peak
N/A										
2463.33	H	96.47	84.81	-4.97	91.50	79.84	Fundamental			
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Mode 3: Antenna 3+ Module 1****Operation Mode:** Tx / IEEE 802.11b / CH Low**Test Date:** November 28, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2413.33	V	101.99	93.83	-5.09	96.90	88.74	Fundamental			
4825.00	V	42.23	---	0.64	42.87	---	74.00	54.00	-11.13	Peak
9650.00	V	69.35	---	-24.72	44.63	---	74.00	54.00	-9.37	Peak
12050.00	V	75.27	---	-23.08	52.19	---	76.90	58.74	-24.71	20dBc Peak Fundamental
14466.67	V	72.03	---	-21.62	50.41	---	74.00	54.00	-3.59	Peak
N/A										
2413.33	H	124.49	116.64	-5.09	119.40	111.55	Fundamental			
4825.00	H	39.21	---	0.64	39.85	---	74.00	54.00	-14.15	Peak
9650.00	H	66.51	---	-24.72	41.78	---	74.00	54.00	-12.22	Peak
12066.67	H	61.38	---	-23.05	38.33	---	74.00	54.00	-15.67	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11b / CH Mid**Test Date:** November 28, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2436.67	V	103.17	95.31	-5.04	98.13	90.27	Fundamental			
4875.00	V	48.88	---	0.81	49.69	---	74.00	54.00	-4.31	Peak
7308.33	V	38.96	---	5.88	44.84	---	74.00	54.00	-9.16	Peak
9750.00	V	78.40	---	-24.77	53.63	---	78.13	60.27	-24.50	20dBc Peak Fundamental
12183.33	V	73.40	---	-22.88	50.52	---	78.13	60.27	-27.61	20dBc Peak Fundamental
14616.67	V	58.13	---	-20.48	37.66	---	74.00	54.00	-16.34	Peak
N/A										
2436.67	H	124.80	116.96	-5.04	119.76	111.92	Fundamental			
4875.00	H	40.17	---	0.81	40.98	---	74.00	54.00	-13.02	Peak
7308.33	H	39.06	---	5.88	44.94	---	74.00	54.00	-9.06	Peak
9750.00	H	75.71	---	-24.77	50.94	---	99.76	61.92	-48.82	20dBc Peak Fundamental
12183.33	H	60.54	---	-22.88	37.66	---	74.00	54.00	-16.34	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11b / CH High**Test Date:** November 28, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	100.48	92.60	-4.98	95.50	87.62	Fundamental			
4925.00	V	49.56	---	0.99	50.55	---	74.00	54.00	-3.45	Peak
9850.00	V	76.78	---	-24.81	51.97	---	75.50	57.62	-23.53	20dBc Peak Fundamental
12316.67	V	75.23	---	-22.69	52.54	---	75.50	57.62	-22.96	20dBc Peak Fundamental
14766.67	V	60.13	---	-19.13	41.00	---	74.00	54.00	-13.00	Peak
N/A										
2460.00	H	124.88	117.00	-4.98	119.90	112.02	Fundamental			
4925.00	H	42.64	---	0.99	43.63	---	74.00	54.00	-10.37	Peak
9850.00	H	73.81	---	-24.81	49.00	---	74.00	54.00	-5.00	Peak
12300.00	H	61.86	---	-22.71	39.15	---	74.00	54.00	-14.85	Peak
14766.67	H	57.30	---	-19.13	38.17	---	74.00	54.00	-15.83	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Low

Test Date: November 28, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2413.33	V	98.23	86.61	-5.09	93.14	81.52	Fundamental			
4825.00	V	36.07	---	0.64	36.71	---	74.00	54.00	-17.29	Peak
12066.67	V	63.44	---	-23.05	40.38	---	74.00	54.00	-13.62	Peak
N/A										
2413.33	H	121.91	109.63	-5.09	116.82	104.54	Fundamental			
4825.00	H	36.44	---	0.64	37.08	---	74.00	54.00	-16.92	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Mid

Test Date: November 28, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2440.00	V	101.10	88.67	-5.03	96.07	83.64	Fundamental			
4875.00	V	38.20	---	0.81	39.01	---	74.00	54.00	-14.99	Peak
9750.00	V	64.15	---	-24.77	39.38	---	74.00	54.00	-14.62	Peak
12183.33	V	62.49	---	-22.88	39.61	---	74.00	54.00	-14.39	Peak
N/A										
2440.00	H	122.03	110.09	-5.03	117.00	105.06	Fundamental			
4875.00	H	36.24	---	0.81	37.05	---	74.00	54.00	-16.95	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH High

Test Date: November 28, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	96.98	85.64	-4.98	92.00	80.66	Fundamental			
4925.00	V	37.40	---	0.99	38.40	---	74.00	54.00	-15.60	Peak
9850.00	V	62.98	---	-24.81	38.17	---	74.00	54.00	-15.83	Peak
N/A										
2460.00	H	120.59	108.11	-4.98	115.61	103.13	Fundamental			
4925.00	H	36.07	---	0.99	37.06	---	74.00	54.00	-16.94	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Mode 4: Antenna 3+ Module 2****Operation Mode:** Tx / IEEE 802.11b / CH Low**Test Date:** November 28, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2413.33	V	100.43	92.71	-5.09	95.34	87.62	Fundamental			
4825.00	V	47.81	---	0.64	48.45	---	74.00	54.00	-5.55	Peak
7241.67	V	47.40	---	6.23	53.63	---	74.00	54.00	-0.37	Peak
9650.00	V	80.98	77.51	-24.72	56.26	52.79	75.34	57.62	-4.83	30dBc AVG Fundamental
12066.67	V	79.11	69.67	-23.05	56.06	46.62	74.00	54.00	-7.38	AVG
14466.67	V	62.09	---	-21.62	40.47	---	74.00	54.00	-13.53	Peak
N/A										
2413.33	H	123.46	115.77	-5.09	118.37	110.68	Fundamental			
4825.00	H	39.98	---	0.64	40.61	---	74.00	54.00	-13.39	Peak
7241.67	H	38.58	---	6.23	44.81	---	74.00	54.00	-9.19	Peak
9650.00	H	78.16	---	-24.72	53.44	---	98.37	40.68	-44.93	20dBc Peak Fundamental
12066.67	H	69.23	---	-23.05	46.18	---	74.00	54.00	-7.82	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11b / CH Mid**Test Date:** November 28, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2436.67	V	97.69	89.88	-5.04	92.65	84.84	Fundamental			
4875.00	V	47.20	---	0.81	48.01	---	74.00	54.00	-5.99	Peak
7316.67	V	51.50	41.33	5.84	57.34	47.17	74.00	54.00	-6.83	AVG
9750.00	V	78.65	---	-24.77	53.88	---	72.65	54.84	-18.77	20dBc Peak Fundamental
12183.33	V	79.32	70.76	-22.88	56.44	47.88	74.00	54.00	-6.12	AVG
14616.67	V	64.84	---	-20.48	44.36	---	74.00	54.00	-9.64	Peak
N/A										
2436.67	H	123.76	115.92	-5.04	118.72	110.88	Fundamental			
4875.00	H	40.48	---	0.81	41.30	---	74.00	54.00	-12.70	Peak
7308.33	H	46.75	---	5.88	52.63	---	74.00	54.00	-1.37	Peak
9750.00	H	67.07	---	-24.77	42.30	---	74.00	54.00	-11.70	Peak
12183.33	H	64.32	---	-22.88	41.44	---	74.00	54.00	-12.56	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11b / CH High**Test Date:** November 28, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	97.51	89.72	-4.98	92.53	84.74	Fundamental			
4925.00	V	41.05	---	0.99	42.04	---	74.00	54.00	-11.96	Peak
7383.33	V	53.82	44.08	5.48	59.30	49.56	74.00	54.00	-4.44	AVG
9850.00	V	78.80	74.97	-24.81	53.99	50.16	72.53	54.74	-4.58	30dBc AVG Fundamental
12316.67	V	74.10	---	-22.69	51.41	---	72.53	54.74	-21.12	20dBc Peak Fundamental
14766.67	V	68.36	---	-19.13	49.23	---	74.00	54.00	-4.77	Peak
17233.33	V	62.49	---	-19.75	42.74	---	74.00	54.00	-11.26	Peak
2460.00	H	123.43	115.79	-4.98	118.45	110.81	Fundamental			
4925.00	H	38.49	---	0.99	39.48	---	74.00	54.00	-14.52	Peak
7383.33	H	48.19	---	5.48	53.67	---	74.00	54.00	-0.33	Peak
9850.00	H	76.27	---	-24.81	51.46	---	98.45	80.81	-46.99	20dBc Peak Fundamental
12316.67	H	60.56	---	-22.69	37.88	---	74.00	54.00	-16.12	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Low

Test Date: November 28, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2410.00	V	97.23	85.12	-5.10	92.13	80.02	Fundamental			
4825.00	V	39.13	---	0.64	39.77	---	74.00	54.00	-14.23	Peak
7233.33	V	49.58	37.81	6.28	55.86	44.09	74.00	54.00	-9.91	AVG
9650.00	V	75.44	---	-24.72	50.72	---	72.13	50.02	-21.41	20dBc Peak Fundamental
12050.00	V	78.55	65.59	-23.08	55.47	42.51	74.00	54.00	-11.49	AVG
N/A										
2410.00	H	121.66	109.39	-5.10	116.56	104.29	Fundamental			
4825.00	H	36.59	---	0.64	37.22	---	74.00	54.00	-16.78	Peak
9650.00	H	64.40	---	-24.72	39.68	---	74.00	54.00	-14.32	Peak
12066.67	H	61.19	---	-23.05	38.14	---	74.00	54.00	-15.86	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Mid

Test Date: November 28, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2433.33	V	96.26	84.42	-5.04	91.22	79.38	Fundamental			
4875.00	V	36.87	---	0.81	37.68	---	74.00	54.00	-16.32	Peak
7308.33	V	51.26	39.40	5.88	57.14	45.28	74.00	54.00	-8.72	AVG
9750.00	V	65.47	---	-24.77	40.71	---	74.00	54.00	-13.29	Peak
12183.33	V	72.61	---	-22.88	49.73	---	74.00	54.00	-4.27	Peak
N/A										
2433.33	H	121.75	109.13	-5.04	116.71	104.09	Fundamental			
4875.00	H	37.39	---	0.81	38.20	---	74.00	54.00	-15.80	Peak
7300.00	H	45.14	---	5.92	51.06	---	74.00	54.00	-2.94	Peak
12183.33	H	61.45	---	-22.88	38.57	---	74.00	54.00	-15.43	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11g / CH High**Test Date:** November 28, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	92.72	80.55	-4.98	87.74	75.57	Fundamental			
4925.00	V	36.93	---	0.99	37.92	---	74.00	54.00	-16.08	Peak
7383.33	V	51.26	38.79	5.48	56.74	44.27	74.00	54.00	-9.73	AVG
9850.00	V	66.37	---	-24.81	41.56	---	74.00	54.00	-12.44	Peak
12316.67	V	65.21	---	-22.69	42.52	---	74.00	54.00	-11.48	Peak
N/A										
2460.00	H	118.58	106.78	-4.98	113.60	101.80	Fundamental			
4925.00	H	36.08	---	0.99	37.07	---	74.00	54.00	-16.93	Peak
7391.67	H	39.16	---	5.44	44.60	---	74.00	54.00	-9.40	Peak
9850.00	H	63.25	---	-24.81	38.44	---	74.00	54.00	-15.56	Peak
12300.00	H	59.53	---	-22.71	36.82	---	74.00	54.00	-17.18	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Mode 5: Antenna 4+ Module 1****Operation Mode:** Tx / IEEE 802.11b / CH Low**Test Date:** November 29, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2413.33	V	112.42	104.59	-5.09	107.33	99.50	Fundamental			
2020.00	V	48.91	---	-6.06	42.85	---	74.00	54.00	-11.15	Peak
4825.00	V	46.78	---	0.64	47.42	---	74.00	54.00	-6.58	Peak
9650.00	V	69.52	---	-24.72	44.80	---	74.00	54.00	-9.20	Peak
12066.67	V	64.89	---	-23.05	41.84	---	74.00	54.00	-12.16	Peak
14466.67	V	63.35	---	-21.62	41.73	---	74.00	54.00	-12.27	Peak
N/A										
2413.33	H	117.37	109.58	-5.09	112.28	104.49	Fundamental			
2016.67	H	57.92	---	-6.07	51.85	---	74.00	54.00	-2.15	Peak
4825.00	H	41.57	---	0.64	42.21	---	74.00	54.00	-11.79	Peak
9650.00	H	65.67	---	-24.72	40.95	---	74.00	54.00	-13.05	Peak
12066.67	H	61.31	---	-23.05	38.26	---	74.00	54.00	-15.74	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11b / CH Mid**Test Date:** November 29, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2440.00	V	112.50	104.76	-5.03	107.47	99.73	Fundamental			
2016.67	V	49.92	---	-6.07	43.85	---	74.00	54.00	-10.15	Peak
4875.00	V	52.71	---	0.81	53.52	---	74.00	54.00	-0.48	Peak
7308.33	V	38.25	---	5.88	44.13	---	74.00	54.00	-9.87	Peak
9750.00	V	80.09	76.75	-24.77	55.32	51.98	87.47	69.73	-17.75	30dBc AVG Fundamental
12183.33	V	67.41	---	-22.88	44.53	---	74.00	54.00	-9.47	Peak
14616.67	V	57.61	---	-20.48	37.14	---	74.00	54.00	-16.86	Peak
2440.00	H	117.11	109.19	-5.03	112.08	104.16	Fundamental			
2016.67	H	58.03	---	-6.07	51.96	---	74.00	54.00	-2.04	Peak
4875.00	H	48.27	---	0.81	49.08	---	74.00	54.00	-4.92	Peak
7308.33	H	37.68	---	5.88	43.56	---	74.00	54.00	-10.44	Peak
9750.00	H	74.93	---	-24.77	50.16	---	92.08	74.16	-41.92	20dBc Peak Fundamental
12183.33	H	62.65	---	-22.88	39.76	---	74.00	54.00	-14.24	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11b / CH High**Test Date:** November 29, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	111.98	104.07	-4.98	107.00	99.09	Fundamental			
2016.67	V	49.75	---	-6.07	43.69	---	74.00	54.00	-10.31	Peak
4925.00	V	47.47	---	0.99	48.46	---	74.00	54.00	-5.54	Peak
7383.33	V	37.77	---	5.48	43.25	---	74.00	54.00	-10.75	Peak
9850.00	V	76.50	---	-24.81	51.69	---	87.00	69.09	-35.31	20dBc Peak Fundamental
12300.00	V	65.14	---	-22.71	42.42	---	74.00	54.00	-11.58	Peak
14766.67	V	73.27	59.22	-19.13	54.14	40.09	74.00	54.00	-13.91	AVG
2460.00	H	116.58	108.75	-4.98	111.60	103.77	Fundamental			
2016.67	H	57.60	---	-6.07	51.53	---	74.00	54.00	-2.47	Peak
4925.00	H	40.11	---	0.99	41.10	---	74.00	54.00	-12.90	Peak
7383.33	H	37.56	---	5.48	43.05	---	74.00	54.00	-10.95	Peak
9850.00	H	74.43	---	-24.81	49.62	---	74.00	54.00	-4.38	Peak
12300.00	H	60.62	---	-22.71	37.91	---	74.00	54.00	-16.09	Peak
14766.67	H	58.90	---	-19.13	39.77	---	74.00	54.00	-14.23	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Low

Test Date: November 29, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2410.00	V	110.65	98.51	-5.10	105.55	93.41	Fundamental			
2016.67	V	48.85	---	-6.07	42.79	---	74.00	54.00	-11.21	Peak
4825.00	V	37.97	---	0.64	38.61	---	74.00	54.00	-15.39	Peak
9650.00	V	60.93	---	-24.72	36.21	---	74.00	54.00	-17.79	Peak
N/A										
2410.00	H	115.78	103.63	-5.10	110.68	98.53	Fundamental			
2016.67	H	57.84	---	-6.07	51.77	---	74.00	54.00	-2.23	Peak
4825.00	H	36.96	---	0.64	37.59	---	74.00	54.00	-16.41	Peak
9650.00	H	59.88	---	-24.72	35.15	---	74.00	54.00	-18.85	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Mid

Test Date: November 29, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2440.00	V	112.35	100.39	-5.03	107.32	95.36	Fundamental			
2016.67	V	48.98	---	-6.07	42.91	---	74.00	54.00	-11.09	Peak
4875.00	V	41.97	---	0.81	42.79	---	74.00	54.00	-11.21	Peak
9750.00	V	67.64	---	-24.77	42.87	---	74.00	54.00	-11.13	Peak
12183.33	V	64.04	---	-22.88	41.16	---	74.00	54.00	-12.84	Peak
N/A										
2440.00	H	117.88	105.45	-5.03	112.85	100.42	Fundamental			
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH High

Test Date: November 29, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2463.33	V	109.88	97.43	-4.97	104.91	92.46	Fundamental			
2016.67	V	49.28	---	-6.07	43.21	---	74.00	54.00	-10.79	Peak
4925.00	V	37.73	---	0.99	38.73	---	74.00	54.00	-15.27	Peak
9850.00	V	63.35	---	-24.81	38.54	---	74.00	54.00	-15.46	Peak
N/A										
2463.33	H	114.24	102.05	-4.97	109.27	97.08	Fundamental			
2016.67	H	58.22	---	-6.07	52.15	---	74.00	54.00	-1.85	Peak
4925.00	H	36.81	---	0.99	37.80	---	74.00	54.00	-16.20	Peak
9850.00	H	60.72	---	-24.81	35.91	---	74.00	54.00	-18.09	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Mode 6: Antenna 4+ Module 2****Operation Mode:** Tx / IEEE 802.11b / CH Low**Test Date:** November 29, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2413.33	V	111.63	103.86	-5.09	106.54	98.77	Fundamental			
2016.67	V	50.12	---	-6.07	44.05	---	74.00	54.00	-9.95	Peak
4825.00	V	50.49	---	0.64	51.13	---	74.00	54.00	-2.87	Peak
9650.00	V	68.08	---	-24.72	43.35	---	74.00	54.00	-10.65	Peak
12066.67	V	76.52	---	-23.05	53.47	---	86.54	68.77	-33.07	20dBc Peak Fundamental
14466.67	V	72.56	---	-21.62	50.94	---	74.00	54.00	-3.06	Peak
N/A										
2413.33	H	117.71	109.92	-5.09	112.62	104.83	Fundamental			
2016.67	H	56.74	---	-6.07	50.67	---	74.00	54.00	-3.33	Peak
4825.00	H	50.58	---	0.64	51.22	---	74.00	54.00	-2.78	Peak
9650.00	H	66.63	---	-24.72	41.91	---	74.00	54.00	-12.09	Peak
12066.67	H	63.96	---	-23.05	40.91	---	74.00	54.00	-13.09	Peak
14466.67	H	63.81	---	-21.62	42.19	---	74.00	54.00	-11.81	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11b / CH Mid**Test Date:** November 29, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2436.67	V	111.64	103.66	-5.04	106.60	98.62	Fundamental			
2016.67	V	49.45	---	-6.07	43.38	---	74.00	54.00	-10.62	Peak
4875.00	V	49.44	---	0.81	50.25	---	74.00	54.00	-3.75	Peak
9750.00	V	79.31	76.26	-24.77	54.54	51.49	86.60	68.62	-14.13	30dBc AVG Fundamental
12183.33	V	74.95	---	-22.88	52.07	---	86.60	68.62	-34.53	20dBc Peak Fundamental
N/A										
2436.67	H	116.78	108.97	-5.04	111.74	103.93	Fundamental			
2016.67	H	58.20	---	-6.07	52.13	---	74.00	54.00	-1.87	Peak
4875.00	H	48.25	---	0.81	49.06	---	74.00	54.00	-4.94	Peak
9750.00	H	74.42	---	-24.77	49.65	---	74.00	54.00	-4.35	Peak
12183.33	H	63.92	---	-22.88	41.04	---	74.00	54.00	-12.96	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11b / CH High

Test Date: November 29, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	111.92	104.16	-4.98	106.94	99.18	Fundamental			
2016.67	V	49.37	---	-6.07	43.30	---	74.00	54.00	-10.70	Peak
4925.00	V	42.90	---	0.99	43.89	---	74.00	54.00	-10.11	Peak
9850.00	V	76.20	---	-24.81	51.39	---	86.94	69.18	-35.52	20dBc Peak Fundamental
12300.00	V	75.92	---	-22.71	53.21	---	86.94	69.18	-33.73	20dBc Peak Fundamental
14766.67	V	58.60	---	-19.13	39.47	---	74.00	54.00	-14.53	Peak
N/A										
2460.00	H	116.51	108.74	-4.98	111.53	103.76	Fundamental			
2016.67	H	60.84	52.40	-6.07	54.77	46.33	74.00	54.00	-7.67	AVG
4925.00	H	41.65	---	0.99	42.64	---	74.00	54.00	-11.36	Peak
9850.00	H	67.95	---	-24.81	43.13	---	74.00	54.00	-10.87	Peak
12316.67	H	63.78	---	-22.69	41.09	---	74.00	54.00	-12.91	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Low

Test Date: November 29, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2410.00	V	109.65	96.92	-5.10	104.55	91.82	Fundamental			
2016.67	V	50.27	---	-6.07	44.20	---	74.00	54.00	-9.80	Peak
4825.00	V	39.67	---	0.64	40.31	---	74.00	54.00	-13.69	Peak
9650.00	V	63.93	---	-24.72	39.21	---	74.00	54.00	-14.79	Peak
12050.00	V	66.60	---	-23.08	43.52	---	74.00	54.00	-10.48	Peak
N/A										
2410.00	H	115.18	103.04	-5.10	110.08	97.94	Fundamental			
2016.67	H	59.71	---	-6.07	53.64	---	74.00	54.00	-0.36	Peak
4825.00	H	37.62	---	0.64	38.26	---	74.00	54.00	-15.74	Peak
9650.00	H	62.02	---	-24.72	37.29	---	74.00	54.00	-16.71	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Mid

Test Date: November 29, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2440.00	V	108.94	97.19	-5.03	103.91	92.16	Fundamental			
2016.67	V	49.33	---	-6.07	43.26	---	74.00	54.00	-10.74	Peak
4875.00	V	38.30	---	0.81	39.12	---	74.00	54.00	-14.88	Peak
9750.00	V	65.77	---	-24.77	41.00	---	74.00	54.00	-13.00	Peak
12183.33	V	65.23	---	-22.88	42.34	---	74.00	54.00	-11.66	Peak
N/A										
2440.00	H	114.91	103.01	-5.03	109.88	97.98	Fundamental			
2016.67	H	59.89	---	-6.07	53.82	---	74.00	54.00	-0.18	Peak
4875.00	H	36.99	---	0.81	37.81	---	74.00	54.00	-16.19	Peak
9750.00	H	62.26	---	-24.77	37.49	---	74.00	54.00	-16.51	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH High

Test Date: November 29, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	107.08	94.96	-4.98	102.10	89.98	Fundamental			
2016.67	V	50.56	---	-6.07	44.49	---	74.00	54.00	-9.51	Peak
4925.00	V	35.88	---	0.99	36.87	---	74.00	54.00	-17.13	Peak
9850.00	V	63.27	---	-24.81	38.46	---	74.00	54.00	-15.54	Peak
12300.00	V	62.02	---	-22.71	39.30	---	74.00	54.00	-14.70	Peak
N/A										
2460.00	H	112.86	100.54	-4.98	107.88	95.56	Fundamental			
2016.67	H	60.01	---	-6.07	53.94	---	74.00	54.00	-0.06	Peak
4925.00	H	35.76	---	0.99	36.75	---	74.00	54.00	-17.25	Peak
9850.00	H	60.53	---	-24.81	35.72	---	74.00	54.00	-18.28	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a / CH Low

Test Date: November 30, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11483.33	V	85.90	72.02	-24.88	61.02	47.14	74.00	54.00	-6.86	AVG
N/A										
11483.33	H	80.09	66.76	-24.88	55.21	41.88	74.00	54.00	-12.12	AVG
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a / CH Mid

Test Date: November 30, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11566.67	V	87.11	74.17	-24.72	62.39	49.45	74.00	54.00	-4.55	AVG
17350.00	V	61.80	---	-20.13	41.67	---	74.00	54.00	-12.33	Peak
N/A										
11566.67	H	80.16	67.19	-24.72	55.44	42.47	74.00	54.00	-11.53	AVG
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a / CH High

Test Date: November 30, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11650.00	V	85.43	71.90	-24.42	61.01	47.48	74.00	54.00	-6.52	AVG
17466.67	V	60.99	---	-20.51	40.48	---	74.00	54.00	-13.52	Peak
N/A										
11650.00	H	68.45	---	-24.42	44.04	---	74.00	54.00	-9.96	Peak
17483.33	H	58.84	---	-20.57	38.27	---	74.00	54.00	-15.73	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Mode 7: Antenna 5+ Module 1****Operation Mode:** Tx / IEEE 802.11b / CH Low**Test Date:** November 27, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2413.33	V	122.16	114.34	-5.09	117.07	109.25	Fundamental			
4825.00	V	55.19	41.20	0.64	55.83	41.84	74.00	54.00	-12.16	AVG
7233.33	V	46.31	---	6.28	52.59	---	74.00	54.00	-1.41	Peak
9650.00	V	74.84	---	-24.72	50.12	---	74.00	54.00	-3.88	Peak
12058.33	V	73.34	---	-23.06	50.28	---	74.00	54.00	-3.72	Peak
14475.00	V	69.58	---	-21.59	47.99	---	74.00	54.00	-6.01	Peak
N/A										
2413.33	H	107.82	99.99	-5.09	102.73	94.90	Fundamental			
4825.00	H	39.62	---	0.64	40.26	---	74.00	54.00	-13.74	Peak
9650.00	H	68.40	---	-24.72	43.68	---	74.00	54.00	-10.32	Peak
12066.67	H	72.91	---	-23.05	49.86	---	74.00	54.00	-4.14	Peak
14475.00	H	60.79	---	-21.59	39.19	---	74.00	54.00	-14.81	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11b / CH Mid

Test Date: November 27, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2436.67	V	122.36	114.60	-5.04	117.32	109.56	Fundamental			
2686.67	V	61.07	53.78	-4.43	56.64	49.35	74.00	54.00	-4.65	AVG
4875.00	V	58.06	43.85	0.81	58.87	44.66	74.00	54.00	-9.34	AVG
7308.33	V	48.59	38.20	5.88	54.47	44.08	74.00	54.00	-9.92	AVG
9750.00	V	85.90	82.03	-24.77	61.13	57.26	97.32	79.56	-22.30	30dBc AVG Fundamental
12183.33	V	73.72	---	-22.88	50.84	---	74.00	54.00	-3.16	Peak
N/A										
2436.67	H	107.78	100.06	-5.04	102.74	95.02	Fundamental			
4875.00	H	42.24	---	0.81	43.05	---	74.00	54.00	-10.95	Peak
9750.00	H	80.61	76.15	-24.77	55.84	51.38	82.74	65.02	-13.64	30dBc AVG Fundamental
12183.33	H	73.22	---	-22.88	50.34	---	74.00	54.00	-3.66	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11b / CH High

Test Date: November 27, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	122.85	114.85	-4.98	117.87	109.87	Fundamental			
2686.67	V	61.48	52.01	-4.43	57.05	47.58	74.00	54.00	-6.42	AVG
4925.00	V	48.75	---	0.99	49.74	---	74.00	54.00	-4.26	Peak
7383.33	V	47.94	---	5.48	53.42	---	74.00	54.00	-0.58	Peak
9850.00	V	78.68	---	-24.81	53.87	---	74.00	54.00	-0.13	Peak
12308.33	V	73.33	---	-22.70	50.63	---	74.00	54.00	-3.37	Peak
14775.00	V	74.28	60.44	-19.06	55.22	41.38	74.00	54.00	-12.62	AVG
N/A										
4925.00	H	40.08	---	0.99	41.07	---	74.00	54.00	-12.93	Peak
9850.00	H	73.35	---	-24.81	48.54	---	74.00	54.00	-5.46	Peak
12316.67	H	71.82	---	-22.69	49.13	---	74.00	54.00	-4.87	Peak
14775.00	H	69.66	---	-19.06	50.60	---	74.00	54.00	-3.40	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Low

Test Date: November 27, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2410.00	V	119.16	107.70	-5.10	114.06	102.60	Fundamental			
4825.00	V	52.66	---	0.64	53.30	---	74.00	54.00	-0.70	Peak
7233.33	V	50.20	37.01	6.28	56.48	43.29	74.00	54.00	-10.71	AVG
9650.00	V	83.33	66.30	-24.72	58.61	41.58	74.00	54.00	-12.42	AVG
12058.33	V	77.76	62.88	-23.06	54.70	39.82	74.00	54.00	-14.18	AVG
14475.00	V	62.95	---	-21.59	41.36	---	74.00	54.00	-12.64	Peak
2410.00	H	106.56	94.14	-5.10	101.46	89.04	Fundamental			
4833.33	H	36.58	---	0.67	37.24	---	74.00	54.00	-16.76	Peak
9650.00	H	80.46	63.23	-24.72	55.74	38.51	74.00	54.00	-15.49	AVG
12058.33	H	67.85	---	-23.06	44.79	---	74.00	54.00	-9.21	Peak
14475.00	H	59.84	---	-21.59	38.24	---	74.00	54.00	-15.76	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11g / CH Mid**Test Date:** November 27, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2436.67	V	121.53	109.03	-5.04	116.49	103.99	Fundamental			
2686.67	V	62.41	53.40	-4.43	57.98	48.97	74.00	54.00	-5.03	AVG
4875.00	V	55.80	42.84	0.81	56.61	43.65	74.00	54.00	-10.45	AVG
7308.33	V	50.12	36.67	5.88	56.00	42.55	74.00	54.00	-11.45	AVG
9741.67	V	81.47	68.13	-24.76	56.71	43.37	74.00	54.00	-10.63	AVG
12183.33	V	65.95	---	-22.88	43.07	---	74.00	54.00	-10.93	Peak
N/A										
2436.67	H	109.08	96.27	-5.04	104.04	91.23	Fundamental			
4875.00	H	38.19	---	0.81	39.01	---	74.00	54.00	-14.99	Peak
7308.33	H	37.93	---	5.88	43.81	---	74.00	54.00	-10.19	Peak
9750.00	H	69.65	---	-24.77	44.88	---	74.00	54.00	-9.12	Peak
12183.33	H	66.69	---	-22.88	43.81	---	74.00	54.00	-10.19	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11g / CH High**Test Date:** November 27, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2463.33	V	118.90	106.81	-4.97	113.93	101.84	Fundamental			
2686.67	V	61.15	53.60	-4.43	56.72	49.17	74.00	54.00	-4.83	AVG
4925.00	V	41.93	---	0.99	42.92	---	74.00	54.00	-11.08	Peak
7383.33	V	55.09	41.97	5.48	60.57	47.45	74.00	54.00	-6.55	AVG
9841.67	V	89.92	73.26	-24.81	65.11	48.45	74.00	54.00	-5.55	AVG
12308.33	V	78.20	64.11	-22.70	55.50	41.41	74.00	54.00	-12.59	AVG
14775.00	V	61.85	---	-19.06	42.79	---	74.00	54.00	-11.21	Peak
2460.00	H	105.51	93.38	-4.98	100.53	88.40	Fundamental			
4925.00	H	36.94	---	0.99	37.94	---	74.00	54.00	-16.06	Peak
7383.33	H	39.40	---	5.48	44.88	---	74.00	54.00	-9.12	Peak
9850.00	H	85.01	68.36	-24.81	60.20	43.55	74.00	54.00	-10.45	AVG
12316.67	H	76.79	62.60	-22.69	54.10	39.91	74.00	54.00	-14.09	AVG
14783.33	H	58.76	---	-18.98	39.78	---	74.00	54.00	-14.22	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Mode 8: Antenna 5+ Module 2

Operation Mode: Tx / IEEE 802.11b / CH Low

Test Date: November 27, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2410.00	V	120.90	113.09	-5.10	115.80	107.99	Fundamental			
4825.00	V	40.52	---	0.64	41.15	---	74.00	54.00	-12.85	Peak
9650.00	V	76.75	---	-24.72	52.03	---	74.00	54.00	-1.97	Peak
12058.33	V	73.71	---	-23.06	50.65	---	74.00	54.00	-3.35	Peak
14475.00	V	65.04	---	-21.59	43.45	---	74.00	54.00	-10.55	Peak
N/A										
2410.00	H	105.91	97.96	-5.10	100.81	92.86	Fundamental			
4825.00	H	38.07	---	0.64	38.70	---	74.00	54.00	-15.30	Peak
9650.00	H	73.63	---	-24.72	48.91	---	74.00	54.00	-5.09	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11b / CH Mid

Test Date: November 27, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2440.00	V	121.51	113.69	-5.03	116.48	108.66	Fundamental			
4875.00	V	38.85	---	0.81	39.67	---	74.00	54.00	-14.33	Peak
9750.00	V	79.02	75.87	-24.77	54.25	51.10	96.48	78.66	-27.56	30dBc AVG Fundamental
12183.33	V	75.23	---	-22.88	52.35	---	74.00	54.00	-1.65	Peak
N/A										
2440.00	H	107.32	99.51	-5.03	102.29	94.48	Fundamental			
4875.00	H	35.90	---	0.81	36.71	---	74.00	54.00	-17.29	Peak
9750.00	H	75.29	---	-24.77	50.52	---	74.00	54.00	-3.48	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11b / CH High

Test Date: November 27, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	120.22	112.41	-4.98	115.24	107.43	Fundamental			
4925.00	V	38.18	---	0.99	39.17	---	74.00	54.00	-14.83	Peak
9850.00	V	75.14	---	-24.81	50.33	---	74.00	54.00	-3.67	Peak
12308.33	V	74.37	---	-22.70	51.67	---	74.00	54.00	-2.33	Peak
14775.00	V	67.67	---	-19.06	48.61	---	74.00	54.00	-5.39	Peak
N/A										
2460.00	H	107.47	99.64	-4.98	102.49	94.66	Fundamental			
4925.00	H	36.82	---	0.99	37.81	---	74.00	54.00	-16.19	Peak
9850.00	H	66.90	---	-24.81	42.09	---	74.00	54.00	-11.91	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Low

Test Date: November 27, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2410.00	V	119.12	106.72	-5.10	114.02	101.62	Fundamental			
4825.00	V	38.81	---	0.64	39.44	---	74.00	54.00	-14.56	Peak
9641.67	V	79.47	63.95	-24.72	54.75	39.23	74.00	54.00	-14.77	AVG
12058.33	V	75.54	---	-23.06	52.48	---	74.00	54.00	-1.52	Peak
14466.67	V	59.20	---	-21.62	37.59	---	74.00	54.00	-16.41	Peak
N/A										
2410.00	H	102.67	90.33	-5.10	97.57	85.23	Fundamental			
4825.00	H	36.27	---	0.64	36.91	---	74.00	54.00	-17.09	Peak
9641.67	H	67.76	---	-24.72	43.04	---	74.00	54.00	-10.96	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Mid

Test Date: November 27, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2440.00	V	117.18	105.18	-5.03	112.15	100.15	Fundamental			
4875.00	V	38.26	---	0.81	39.08	---	74.00	54.00	-14.92	Peak
9741.67	V	76.71	---	-24.76	51.95	---	74.00	54.00	-2.05	Peak
12175.00	V	75.62	---	-22.89	52.73	---	74.00	54.00	-1.27	Peak
N/A										
2440.00	H	103.07	90.96	-5.03	98.04	85.93	Fundamental			
4875.00	H	35.79	---	0.81	36.60	---	74.00	54.00	-17.40	Peak
9741.67	H	65.69	---	-24.76	40.92	---	74.00	54.00	-13.08	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH High

Test Date: November 27, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2463.33	V	117.64	105.17	-4.97	112.67	100.20	Fundamental			
4925.00	V	36.07	---	0.99	37.06	---	74.00	54.00	-16.94	Peak
9850.00	V	69.04	---	-24.81	44.23	---	74.00	54.00	-9.77	Peak
12308.33	V	76.01	---	-22.70	53.31	---	74.00	54.00	-0.69	Peak
N/A										
2463.33	H	99.78	87.66	-4.97	94.81	82.69	Fundamental			
4933.33	H	36.64	---	1.02	37.67	---	74.00	54.00	-16.33	Peak
9841.67	H	65.45	---	-24.81	40.64	---	74.00	54.00	-13.36	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a / CH Low

Test Date: November 25 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11491.67	V	84.88	71.28	-24.92	59.96	46.36	74.00	54.00	-7.64	AVG
17241.67	V	61.37	---	-19.78	41.59	---	74.00	54.00	-12.41	Peak
N/A										
11491.67	H	68.58	---	-24.92	43.66	---	74.00	54.00	-10.34	Peak
17225.00	H	59.16	---	-19.73	39.43	---	74.00	54.00	-14.57	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a / CH Mid

Test Date: November 25 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11566.67	V	87.29	73.29	-24.72	62.57	48.57	74.00	54.00	-5.43	AVG
17358.33	V	61.31	---	-20.16	41.15	---	74.00	54.00	-12.85	Peak
N/A										
11566.67	H	69.53	---	-24.72	44.81	---	74.00	54.00	-9.19	Peak
17358.33	H	60.78	---	-20.16	40.62	---	74.00	54.00	-13.38	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a / CH High

Test Date: November 25, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11650.00	V	88.99	74.67	-24.42	64.57	50.25	74.00	54.00	-3.75	AVG
17475.00	V	61.67	---	-20.54	41.13	---	74.00	54.00	-12.87	Peak
N/A										
11650.00	H	78.93	65.29	-24.42	54.51	40.87	74.00	54.00	-13.13	AVG
17483.33	H	76.43	59.22	-20.57	55.86	38.65	74.00	54.00	-15.35	AVG
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Mode 9: Antenna 6+ Module 2

Operation Mode: Tx / IEEE 802.11a / CH Low

Test Date: November 26, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11491.67	V	84.95	70.47	-24.92	60.03	45.55	74.00	54.00	-8.45	AVG
17233.33	V	62.05	---	-19.75	42.30	---	74.00	54.00	-11.70	Peak
N/A										
11491.67	H	67.46	---	-24.92	42.54	---	74.00	54.00	-11.46	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a / CH Mid

Test Date: November 26, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11566.67	V	88.67	74.41	-24.72	63.95	49.69	74.00	54.00	-4.31	AVG
17350.00	V	60.66	---	-20.13	40.53	---	74.00	54.00	-13.47	Peak
N/A										
11566.67	H	79.00	64.76	-24.72	54.28	40.04	74.00	54.00	-13.96	AVG
17358.33	H	61.31	---	-20.16	41.15	---	74.00	54.00	-12.85	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a / CH High

Test Date: November 26, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11650.00	V	89.62	74.41	-24.42	65.20	49.99	74.00	54.00	-4.01	AVG
17483.33	V	64.38	---	-20.57	43.81	---	74.00	54.00	-10.19	Peak
N/A										
11650.00	H	79.40	66.20	-24.42	54.98	41.78	74.00	54.00	-12.22	AVG
17483.33	H	75.15	60.27	-20.57	54.58	39.70	74.00	54.00	-14.30	AVG
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Mode 10: Antenna 7+ Module 2

Operation Mode: Tx / IEEE 802.11a / CH Low

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11491.67	V	83.25	69.15	-24.92	58.33	44.23	74.00	54.00	-9.77	AVG
17225.00	V	61.67	---	-19.73	41.94	---	74.00	54.00	-12.06	Peak
N/A										
11491.67	H	67.26	---	-24.92	42.34	---	74.00	54.00	-11.66	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a / CH Mid

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11566.67	V	86.67	72.21	-24.72	61.95	47.49	74.00	54.00	-6.51	AVG
17350.00	V	61.68	---	-20.13	41.54	---	74.00	54.00	-12.46	Peak
N/A										
11566.67	H	79.32	65.19	-24.72	54.60	40.47	74.00	54.00	-13.53	AVG
17358.33	H	60.30	---	-20.16	40.13	---	74.00	54.00	-13.87	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a / CH High

Test Date: November 23, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11641.67	V	87.24	72.76	-24.45	62.79	48.31	74.00	54.00	-5.69	AVG
17475.00	V	62.03	---	-20.54	41.49	---	74.00	54.00	-12.51	Peak
N/A										
11650.00	H	77.20	---	-24.42	52.78	---	74.00	54.00	-1.22	Peak
17475.00	H	65.51	---	-20.54	44.97	---	74.00	54.00	-9.03	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Mode 11: Antenna 9+ Module 1****Operation Mode:** Tx / IEEE 802.11b / CH Low**Test Date:** November 30, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2410.00	V	109.02	101.21	-5.10	103.92	96.11	Fundamental			
4825.00	V	42.79	---	0.64	43.43	---	74.00	54.00	-10.57	Peak
9650.00	V	75.98	---	-24.72	51.26	---	74.00	54.00	-2.74	Peak
12066.67	V	74.66	---	-23.05	51.61	---	74.00	54.00	-2.39	Peak
14466.67	V	63.98	---	-21.62	42.36	---	74.00	54.00	-11.64	Peak
N/A										
2413.33	H	113.41	105.59	-5.09	108.32	100.50	Fundamental			
7233.33	H	45.92	---	6.28	52.20	---	74.00	54.00	-1.80	Peak
9650.00	H	80.04	76.31	-24.72	55.32	51.59	88.32	70.50	-19.91	30dBc AVG Fundamental
12066.67	H	79.01	69.90	-23.05	55.96	46.85	74.00	54.00	-7.15	AVG
14466.67	H	71.02	---	-21.62	49.40	---	74.00	54.00	-4.60	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11b / CH Mid

Test Date: November 30, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2436.67	V	108.52	100.65	-5.04	103.48	95.61	Fundamental			
4875.00	V	42.93	---	0.81	43.75	---	74.00	54.00	-10.25	Peak
9750.00	V	77.23	---	-24.77	52.46	---	74.00	54.00	-1.54	Peak
12183.33	V	62.53	---	-22.88	39.65	---	74.00	54.00	-14.35	Peak
N/A										
2436.67	H	114.35	106.46	-5.04	109.31	101.42	Fundamental			
4875.00	H	42.67	---	0.81	43.49	---	74.00	54.00	-10.51	Peak
7308.33	H	46.35	---	5.88	52.23	---	74.00	54.00	-1.77	Peak
9750.00	H	80.94	77.58	-24.77	56.17	52.81	89.31	71.42	-18.61	30dBc AVG Fundamental
12183.33	H	73.10	---	-22.88	50.22	---	74.00	54.00	-3.78	Peak
14616.67	H	60.37	---	-20.48	39.89	---	74.00	54.00	-14.11	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11b / CH High**Test Date:** November 30, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	106.52	98.64	-4.98	101.54	93.66	Fundamental			
4925.00	V	41.07	---	0.99	42.06	---	74.00	54.00	-11.94	Peak
7383.33	V	38.00	---	5.48	43.48	---	74.00	54.00	-10.52	Peak
9850.00	V	79.40	75.88	-24.81	54.59	51.07	81.54	63.66	-12.59	30dBc AVG Fundamental
12300.00	V	70.23	---	-22.71	47.52	---	74.00	54.00	-6.48	Peak
14766.67	V	67.17	---	-19.13	48.04	---	74.00	54.00	-5.96	Peak
N/A										
2460.00	H	113.60	105.78	-4.98	108.62	100.80	Fundamental			
4925.00	H	38.78	---	0.99	39.77	---	74.00	54.00	-14.23	Peak
7383.33	H	48.95	38.83	5.48	54.43	44.31	74.00	54.00	-9.69	AVG
9850.00	H	81.74	78.52	-24.81	56.93	53.71	88.62	70.80	-17.09	30dBc AVG Fundamental
12300.00	H	76.70	66.89	-22.71	53.99	44.18	74.00	54.00	-9.82	AVG
14766.67	H	71.83	---	-19.13	52.70	---	74.00	54.00	-1.30	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11g / CH Low**Test Date:** November 30, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2410.00	V	109.62	97.96	-5.10	104.52	92.86	Fundamental			
4825.00	V	37.01	---	0.64	37.65	---	74.00	54.00	-16.35	Peak
9666.67	V	66.77	---	-24.73	42.03	---	74.00	54.00	-11.97	Peak
12066.67	V	66.93	---	-23.05	43.87	---	74.00	54.00	-10.13	Peak
14466.67	V	59.84	---	-21.62	38.22	---	74.00	54.00	-15.78	Peak
N/A										
2413.33	H	114.06	102.28	-5.09	108.97	97.19	Fundamental			
4825.00	H	35.93	---	0.64	36.57	---	74.00	54.00	-17.43	Peak
7233.33	H	51.79	35.55	6.28	58.07	41.83	74.00	54.00	-12.17	AVG
9650.00	H	80.87	62.55	-24.72	56.15	37.83	74.00	54.00	-17.85	AVG
12050.00	H	81.05	65.74	-23.08	57.97	42.66	74.00	54.00	-11.34	AVG
14466.67	H	60.66	---	-21.62	39.05	---	74.00	54.00	-14.95	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11g / CH Mid

Test Date: November 30, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2440.00	V	109.38	96.96	-5.03	104.35	91.93	Fundamental			
4875.00	V	36.30	---	0.81	37.12	---	74.00	54.00	-16.88	Peak
9750.00	V	77.90	---	-24.77	53.13	---	74.00	54.00	-0.87	Peak
12183.33	V	67.66	---	-22.88	44.78	---	74.00	54.00	-9.22	Peak
N/A										
2436.67	H	115.35	103.07	-5.04	110.31	98.03	Fundamental			
4866.67	H	38.15	---	0.79	38.94	---	74.00	54.00	-15.06	Peak
7316.67	H	47.08	---	5.84	52.92	---	74.00	54.00	-1.08	Peak
9750.00	H	83.07	70.10	-24.77	58.30	45.33	74.00	54.00	-8.67	AVG
12183.33	H	78.87	64.58	-22.88	55.99	41.70	74.00	54.00	-12.30	AVG
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** Tx / IEEE 802.11g / CH High**Test Date:** November 30, 2005**Temperature:** 25°C**Tested by:** Eric Cheng**Humidity:** 58% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
2460.00	V	106.85	94.55	-4.98	101.87	89.57	Fundamental			
4925.00	V	36.94	---	0.99	37.94	---	74.00	54.00	-16.06	Peak
7391.67	V	46.47	---	5.44	51.91	---	74.00	54.00	-2.09	Peak
9850.00	V	78.61	---	-24.81	53.80	---	74.00	54.00	-0.20	Peak
12300.00	V	65.24	---	-22.71	42.52	---	74.00	54.00	-11.48	Peak
14766.67	V	60.55	---	-19.13	41.42	---	74.00	54.00	-12.58	Peak
N/A										
2463.33	H	113.56	101.36	-4.97	108.59	96.39	Fundamental			
4925.00	H	36.10	---	0.99	37.09	---	74.00	54.00	-16.91	Peak
7383.33	H	50.55	36.52	5.48	56.03	42.00	74.00	54.00	-12.00	AVG
9833.33	H	83.61	68.73	-24.81	58.80	43.92	74.00	54.00	-10.08	AVG
12316.67	H	80.57	64.82	-22.69	57.88	42.13	74.00	54.00	-11.87	AVG
14766.67	H	63.31	---	-19.13	44.18	---	74.00	54.00	-9.82	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Mode 12: Antenna 11+ Module 2

Operation Mode: Tx / IEEE 802.11a / CH Low

Test Date: December 19, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11483.33	V	88.45	74.54	-24.88	63.57	49.66	74.00	54.00	-4.34	AVG
17233.33	V	77.39	63.31	-19.75	57.64	43.56	74.00	54.00	-10.44	Peak
N/A										
11483.33	H	86.80	72.98	-24.88	61.92	48.10	74.00	54.00	-5.90	AVG
17233.33	H	76.73	61.58	-19.75	56.98	41.83	74.00	54.00	-12.17	AVG
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a / CH Mid

Test Date: December 19, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11566.67	V	88.14	74.56	-24.72	63.42	49.84	74.00	54.00	-4.16	AVG
17350.00	V	74.07	60.71	-20.13	53.94	40.58	74.00	54.00	-13.42	Peak
N/A										
11566.67	H	87.46	74.11	-24.72	62.74	49.39	74.00	54.00	-4.61	AVG
17350.00	H	73.63	58.52	-20.13	53.50	38.39	74.00	54.00	-15.61	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a / CH High

Test Date: December 19, 2005

Temperature: 25°C

Tested by: Eric Cheng

Humidity: 58% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
11650.00	V	89.86	74.48	-24.42	65.44	50.06	74.00	54.00	-3.94	AVG
17466.67	V	71.40	58.73	-20.51	50.89	38.22	74.00	54.00	-15.78	AVG
N/A										
11650.00	H	88.71	74.21	-24.42	64.29	49.79	74.00	54.00	-4.21	AVG
17466.67	H	74.51	61.12	-20.51	54.00	40.61	74.00	54.00	-13.39	AVG
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



7.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.



TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Test Data

Operation Mode: Normal Link **Test Date:** November 26, 2005
Temperature: 25°C **Tested by:** Bruce Chen
Humidity: 55% RH

Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.273	38.210	35.680	0.100	38.310	35.780	61.026	51.026	-22.716	-15.246	L1
0.413	33.910	29.960	0.100	34.010	30.060	57.588	47.588	-23.578	-17.528	L1
0.687	30.930	23.910	0.100	31.030	24.010	56.000	46.000	-24.970	-21.990	L1
1.259	28.390	18.220	0.100	28.490	18.320	56.000	46.000	-27.510	-27.680	L1
9.605	26.120	17.550	0.660	26.780	18.210	60.000	50.000	-33.220	-31.790	L1
27.497	29.240	24.110	1.300	30.540	25.410	60.000	50.000	-29.460	-24.590	L1
0.268	39.850	32.890	0.100	39.950	32.990	61.180	51.180	-21.230	-18.190	L2
0.403	34.250	27.570	0.100	34.350	27.670	57.791	47.791	-23.441	-20.121	L2
0.541	27.300	21.650	0.100	27.400	21.750	56.000	46.000	-28.600	-24.250	L2
0.671	28.260	18.530	0.100	28.360	18.630	56.000	46.000	-27.640	-27.370	L2
5.677	28.340	16.960	0.268	28.608	17.228	60.000	50.000	-31.392	-32.772	L2
27.497	29.600	25.020	1.300	30.900	26.320	60.000	50.000	-29.100	-23.680	L2

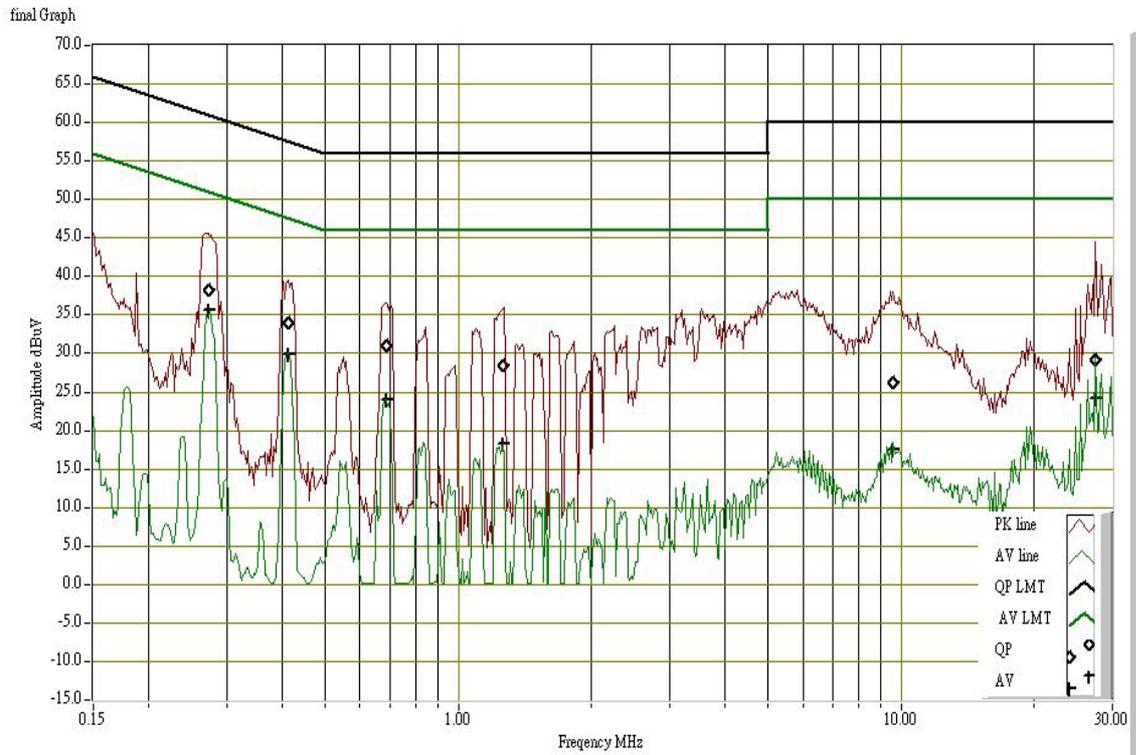
Remark:

1. Measuring frequencies from 0.15 MHz to 30MHz.
2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
3. The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz.
4. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)

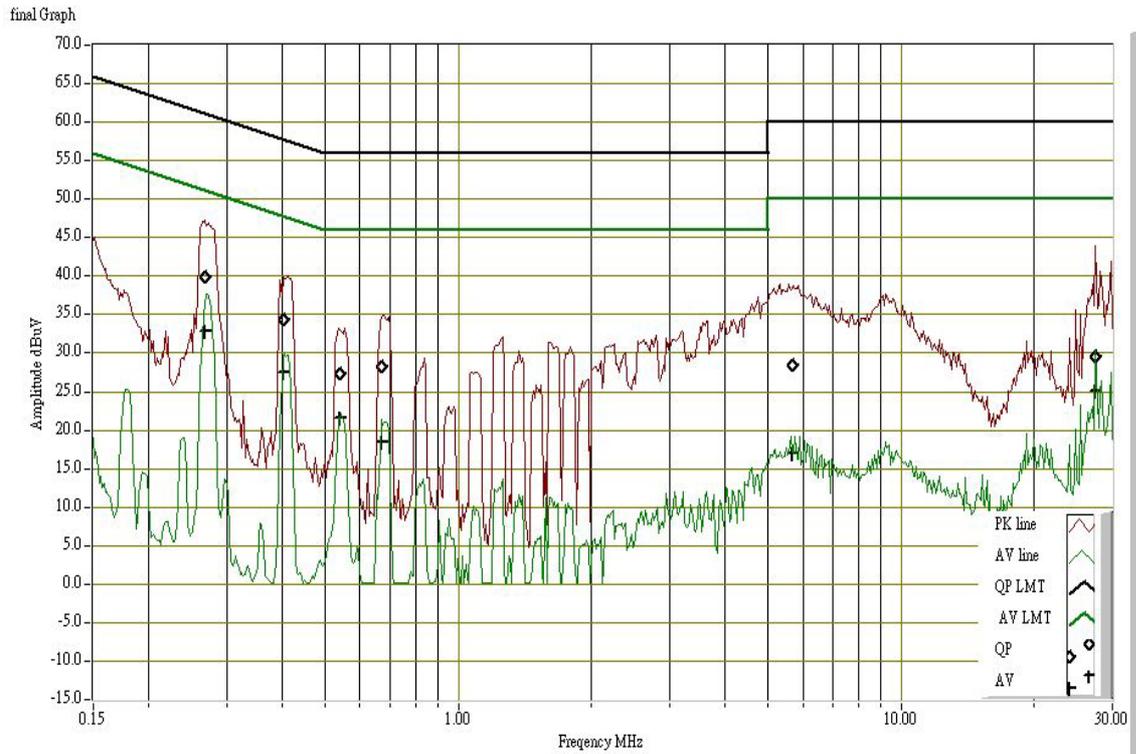


Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)





APPENDIX I RADIO FREQUENCY EXPOSURE

LIMIT

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

Mode 1: Antenna 2+ Module 1

EUT Specification

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11b: 25.05 dBm (319.89mW) IEEE 802.11g: 23.16 dBm (207.01mW)
Antenna gain (Max)	7.4 dBi (Numeric gain: 5.50)
Actual gain w/ cable loss	6.98 dBi (Numeric gain: 4.99)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

1. The maximum output power is 25.05dBm (319.89mW) at 2462MHz (with 4.99 numeric antenna gain).
2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
3. For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 319.89mW

Numeric Antenna gain = 4.99

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.31765 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)

**Mode 2: Antenna 2+ Module 2****EUT Specification**

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11b: 24.50 dBm (281.84mW) IEEE 802.11g: 22.25 dBm (167.88mW)
Antenna gain (Max)	7.4 dBi (Numeric gain: 5.50)
Actual gain w/ cable loss	6.65 dBi (Numeric gain: 4.62)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

- The maximum output power is 24.50dBm (281.84mW) at 2462MHz (with 4.62 numeric antenna gain).*
- DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.*
- For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.*

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 281.84mW

Numeric Antenna gain = 4.62

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0. 25912 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)

**Mode 3: Antenna 3+ Module 1****EUT Specification**

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11b: 23.61 dBm (229.61mW) IEEE 802.11g: 20.12 dBm (102.80mW)
Antenna gain (Max)	13.80 dBi (Numeric gain: 23.99)
Actual gain w/ cable loss & lightning arrester	11.55 dBi (Numeric gain: 14.29)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

- The maximum output power is 23.61dBm (229.61mW) at 2437MHz (with 14.29 numeric antenna gain).*
- DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.*
- For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.*

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 229.61mW

Numeric Antenna gain = 14.29

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.65294 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)



Mode 4: Antenna 3+ Module 2

EUT Specification

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11b: 22.88 dBm (194.09mW) IEEE 802.11g: 19.35 dBm (86.10mW)
Antenna gain (Max)	13.80 dBi (Numeric gain: 23.99)
Actual gain w/ cable loss & lightning arrester	11.22 dBi (Numeric gain: 13.24)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

- The maximum output power is 22.88dBm (194.09mW) at 2412MHz (with 13.24 numeric antenna gain).*
- DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.*
- For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.*

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 194.09mW

Numeric Antenna gain = 13.24

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.51138 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)

**Mode 5: Antenna 4+ Module 1****EUT Specification**

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11b: 25.20 dBm (331.13mW) IEEE 802.11g: 24.65 dBm (291.74mW)
Antenna gain (Max)	3.0 dBi (Numeric gain: 2.0)
Actual gain w/ cable loss	2.58 dBi (Numeric gain: 1.81)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

- The maximum output power is 25.20dBm (331.13mW) at 2437MHz (with 1.81 numeric antenna gain).*
- DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.*
- For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.*

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 331.13mW

Numeric Antenna gain = 1.81

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.11927 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)

**Mode 6: Antenna 4+ Module 2****EUT Specification**

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11b: 25.31 dBm (339.63mW) IEEE 802.11g: 22.86 dBm (193.20mW)
Antenna gain (Max)	3.0 dBi (Numeric gain: 2.0)
Actual gain w/ cable loss	2.25 dBi (Numeric gain: 1.68)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

- The maximum output power is 25.31dBm (339.63mW) at 2412MHz (with 2.25 numeric antenna gain).*
- DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.*
- For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.*

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 339.63mW

Numeric Antenna gain = 2.25

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.15207 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)



EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input checked="" type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11a: 20.67 dBm (116.68mW)
Antenna gain (Max)	4.0 dBi (Numeric gain: 2.51)
Actual gain w/ cable loss	2.74 dBi (Numeric gain: 1.88)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

1. The maximum output power is 20.67dBm (116.68mW) at 5745MHz (with 1.88 numeric antenna gain).
2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
3. For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 116.68mW

Numeric Antenna gain = 1.88

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.04365 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)



Mode 7: Antenna 5+ Module 1

EUT Specification

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11b: 25.13 dBm (325.84mW) IEEE 802.11g: 22.58 dBm (181.13mW)
Antenna gain (Max)	6.9 dBi (Numeric gain: 4.9)
Actual gain w/ cable loss	6.48 dBi (Numeric gain: 4.45)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

1. *The maximum output power is 25.13dBm (325.84mW) at 2437MHz (with 4.45 numeric antenna gain).*
2. *DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.*
3. *For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.*

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 325.84mW

Numeric Antenna gain = 4.45

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.28855 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)

**Mode 8: Antenna 5+ Module 2****EUT Specification**

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11b: 24.94 dBm (311.89mW) IEEE 802.11g: 22.12 dBm (162.93mW)
Antenna gain (Max)	6.9 dBi (Numeric gain: 4.9)
Actual gain w/ cable loss	6.15 dBi (Numeric gain: 4.12)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

- The maximum output power is 24.94dBm (311.89mW) at 2412MHz (with 4.12 numeric antenna gain).*
- DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.*
- For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.*

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 311.89mW

Numeric Antenna gain = 4.12

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.25571 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)



EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input checked="" type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11a: 20.42 dBm (110.15mW)
Antenna gain (Max)	7.7 dBi (Numeric gain: 5.89)
Actual gain w/ cable loss	6.44 dBi (Numeric gain: 4.41)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

1. The maximum output power is 20.42dBm (110.15mW) at 5745MHz (with 4.41 numeric antenna gain).
2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
3. For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 110.15mW

Numeric Antenna gain = 4.41

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.09667 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)



Mode 9: Antenna 6+ Module 2

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input checked="" type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11a: 20.48 dBm (111.69mW)
Antenna gain (Max)	6.3 dBi (Numeric gain: 4.27)
Actual gain w/ cable loss	5.04 dBi (Numeric gain: 3.19)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

- The maximum output power is 20.48dBm (111.69mW) at 5745MHz (with 3.19 numeric antenna gain).
- DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
- For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 111.69mW

Numeric Antenna gain = 3.19

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.07090 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)



Mode 10: Antenna 7+ Module 2

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input checked="" type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11a: 20.49 dBm (111.94mW)
Antenna gain (Max)	13.3 dBi (Numeric gain: 21.38)
Actual gain w/ cable loss	12.04 dBi (Numeric gain: 16.0)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

1. The maximum output power is 20.49dBm (111.94mW) at 5745MHz (with 16.0 numeric antenna gain)
2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
3. For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 111.94mW

Numeric Antenna gain = 16.0

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.35642 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)



Mode 11: Antenna 9+ Module 1

EUT Specification

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11b: 21.17 dBm (130.92mW) IEEE 802.11g: 21.50 dBm (141.25mW)
Antenna gain (Max)	5.92 dBi (Numeric gain: 3.91)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

1. The maximum output power is 21.50dBm (141.25mW) at 2437MHz (with 3.91 numeric antenna gain).
2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
3. For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 141.25mW

Numeric Antenna gain = 3.91

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.10991 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)



Mode 12: Antenna 11+ Module 2

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input checked="" type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	IEEE 802.11a: 20.87 dBm (122.18mW)
Antenna gain (Max)	5.95 dBi (Numeric gain: 3.94)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

- The maximum output power is 20.87dBm (122.18mW) at 5825MHz (with 3.94 numeric antenna gain).
- DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
- For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.

TEST RESULTS

No non-compliance noted.



Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where $E =$ Field strength in Volts / meter

$P =$ Power in Watts

$G =$ Numeric antenna gain

$d =$ Distance in meters

$S =$ Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P (mW) = P (W) / 1000 \text{ and}$$

$$d (cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where $d =$ Distance in cm

$P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

Maximum Permissible Exposure

EUT output power = 122.18mW

Numeric Antenna gain = 3.94

Substituting the MPE safe distance using d = 20 cm into Equation 1:

Yields

$$S = 0.000199 \times P \times G$$

Where $P =$ Power in mW

$G =$ Numeric antenna gain

$S =$ Power density in mW / cm²

→ Power density = 0.095796 mW / cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)



Co-location Mode:

Mode 3 (Antenna 3+ Module 1) & Mode 4 (Antenna 3 + Module 2)

EUT Specification

EUT	ProCurve Wireless Access Point 530
Frequency band (Operating)	<input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	Mode 3 IEEE 802.11b: 23.61 dBm (229.61mW) IEEE 802.11g: 20.12 dBm (102.80mW) Mode 4 IEEE 802.11b: 22.88 dBm (194.09mW) IEEE 802.11g: 19.35 dBm (86.10mW)
Antenna gain (Max)	13.80 dBi (Numeric gain: 23.99)
Actual gain w/ cable loss & lightning arrester	Mode 3 11.55 dBi (Numeric gain: 14.29) Mode 4 11.22 dBi (Numeric gain: 13.24)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

Remark:

1. *The maximum output power at Mode 3 is 23.61dBm (229.61mW) at 2437MHz (with 14.29 numeric antenna gain) and Mode 4 is 22.88dBm (194.09mW) at 2412MHz (with 13.24 numeric antenna gain).*
2. *DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.*
3. *For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.*

TEST RESULTS

No non-compliance noted.



Calculation

Given $S = EIRP / 4\pi R^2$ **Equation 1**

Where $S =$ power density (mW/cm^2)

$$\pi = 3.1416$$

$R =$ in cm (for example : 20)

$EIRP = mW$ (Gain in dBi + conducted Power in dBm)

Maximum Permissible Exposure

$$\text{Total EIRP} = 3280.953mW + 2558.586mW = 5839.539mW$$

Substituting the MPE safe distance using $d = 20$ cm into Equation 1:

Yields

$$\begin{aligned} S &= 5839.539 / (4 * 3.1416 * 20^2) \\ &= 1.1617mW/cm^2 \end{aligned}$$

→ Power density = 1.1617mW/cm²

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.)

And when

$$\begin{aligned} S &= 1 mW/cm^2 \\ R^2 &= 5839.539 / (4 * 3.1416 * R^2) \end{aligned}$$

$$\therefore R = 21.5568cm$$

→ Distance = 21.5568cm