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RADIATED MEASUREMENT AT BANDEDGE WITH FUNDAMENTAL FREQUENCIES

1. Standard Applicable

According to 15.247(c), 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).

2. Measurement Procedure

- 1. Setup the configuration per the setup photo at OATS for and 2.4835GHz measured.
- 2. Set the spectrum analyzer on 1MHz resolution bandwidth for each frequency measured.
- 3. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.
- 4. Repeat step 3 until all modes need to be measured was complete.
- 5. Repeat step 4 with search antenna in vertical polarized orientations.

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3. Measuring Instrument

The following instrument are used for radiated emissions measurement:

Equipment	Manufacturer	Model No.	Next Cal. Due		
Horn Antenna	EMCO	3115	05/09/2005		
Preamplifier	Hewlett-Packard	8449B	09/17/2005		
Spectrum Analyzer	Hewlett-Packard	8564EC	09/16/2005		

Measuring instrument setup in measured frequency band when specified detector function is used:

Frequency Band	Instrument	Function	Resolution	Video	
(MHz)		T direction	bandwidth	Bandwidth	
	Spectrum Analyzer	Peak	1 MHz	1 MHz	
2483.5	Spectrum Analyzer	Average	1 MHz	10 Hz	

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4. Radiated Emission Data

(1) IEEE 802.11b

Test Date: Sep. 30, 2004 Temperature: 31 Humidity: 45 %

Operation Mode: Receiving /Transmitting

Channel	Frequency	Reading (dBuV)				Factor			Limit @3m		Margin
		ŀ	1	V		(dB)	(dBuV/m) Peak Ave		(dBuV/m) Peak Ave.		(dB)
	(MHz)	Peak	Ave	Peak	Ave	Corr.					
CH 11	2484.700	38.5	23.3	37.5	22.3	28.3	66.8	51.6	74.0	54.0	-2.4

(2) IEEE 802.11g

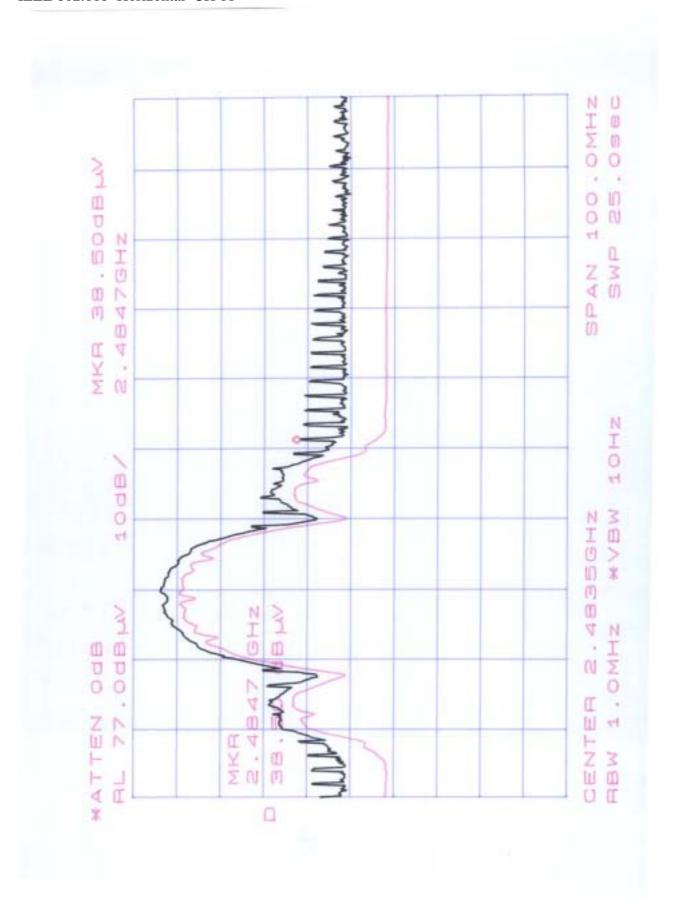
Test Date: Sep. 30, 2004 Temperature: 31 Humidity: 45 %

Operation Mode: Receiving /Transmitting

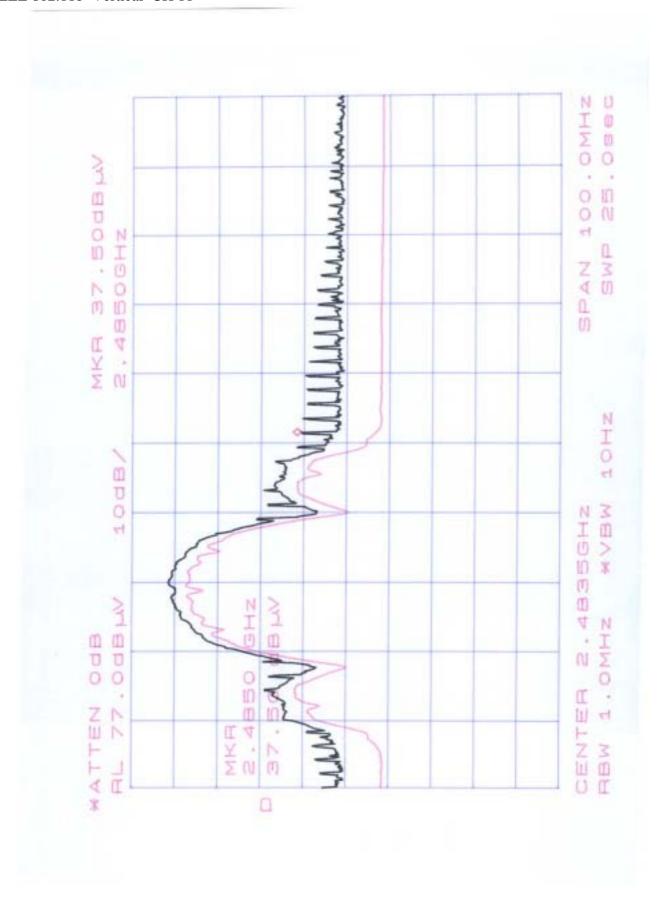
Channel	Frequency	Reading (dBuV)				Factor			Limit @3m		Margin
		H	4	V		(dB)	(dBuV/m) Peak Ave		(dBuV/m) Peak Ave.		(dB)
	(MHz)	Peak	Ave	Peak	Ave	Corr.					
CH 11	2484.300	39.2	23.1	36.5	20.3	28.3	67.5	51.4	74.0	54.0	-2.6

Note: Please refer to page 4 to page 7 for chart

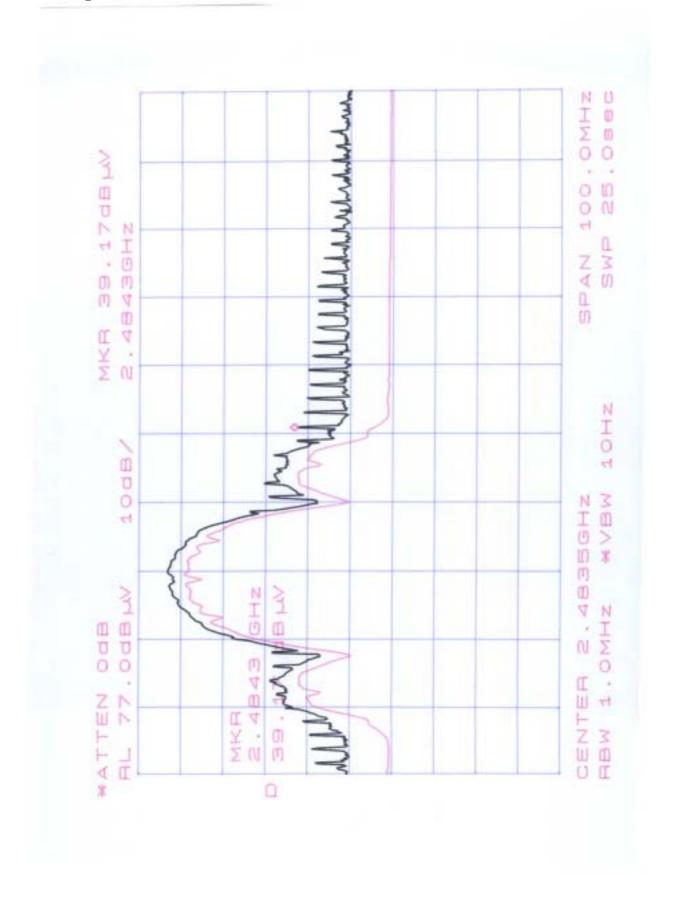
IEEE 802.11b Horizontal CH 11



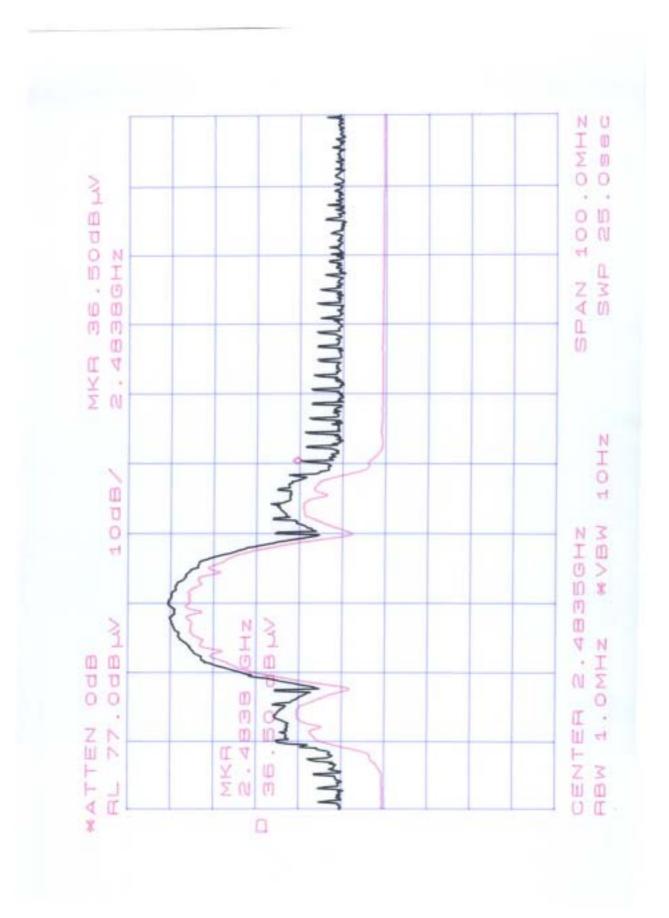
IEEE 802.11b Vertical CH 11



IEEE 802.11g Horizontal CH 11



IEEE 802.11g Vertical CH 11



5. Photos of Radiation Measuring Setup

