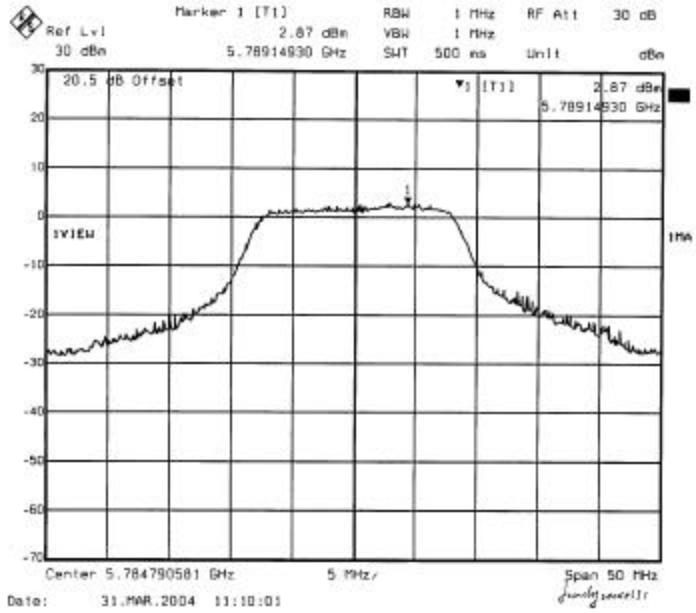
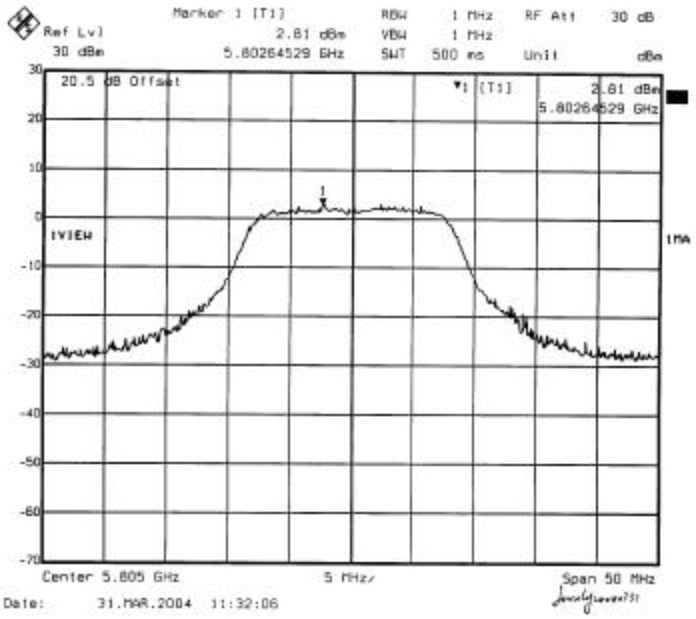
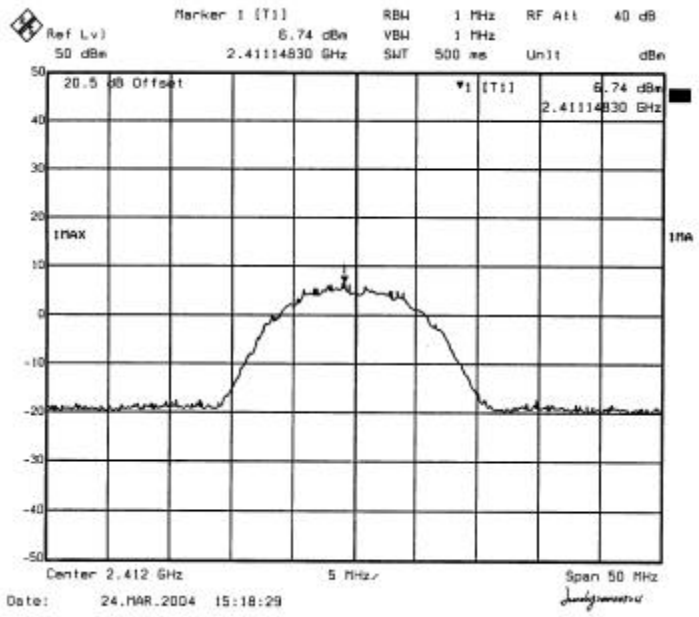
(5.725GHz-5.735GHz) Middle Channel BPSK 802.11a



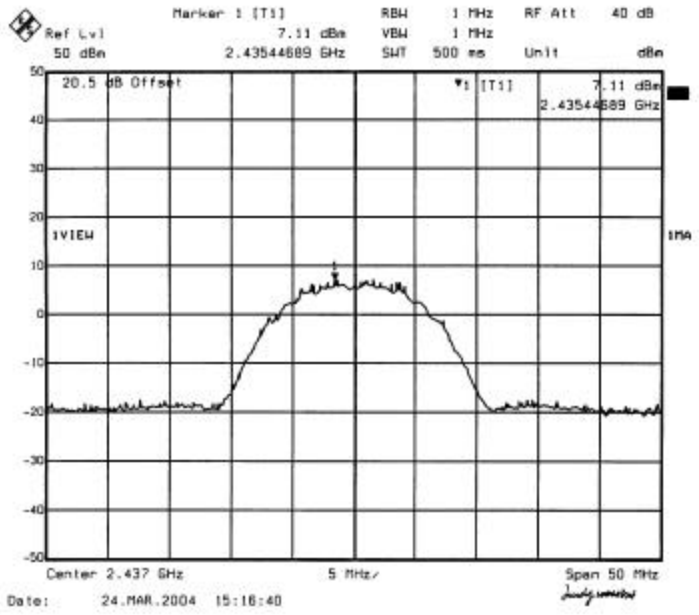
(5.725GHz-5.735GHz) High Channel BPSK 802.11a



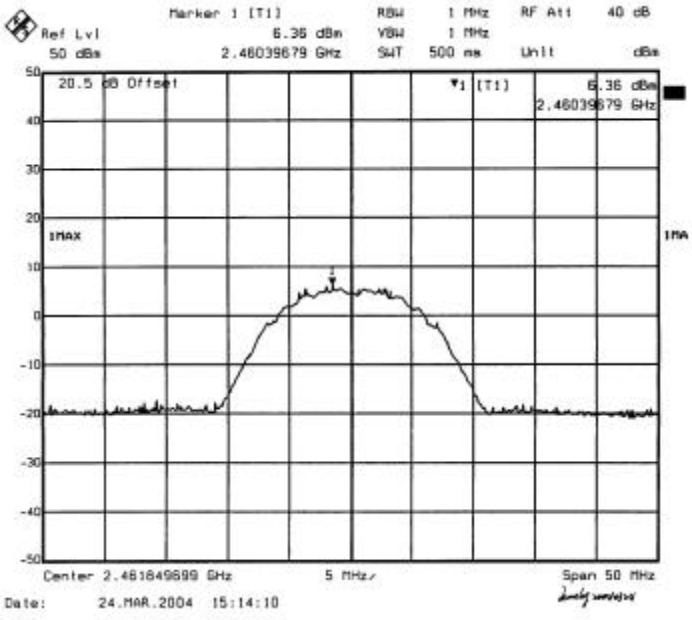
(2.4GHz-2.4835GHz) Low Channel BPSK 802.11g



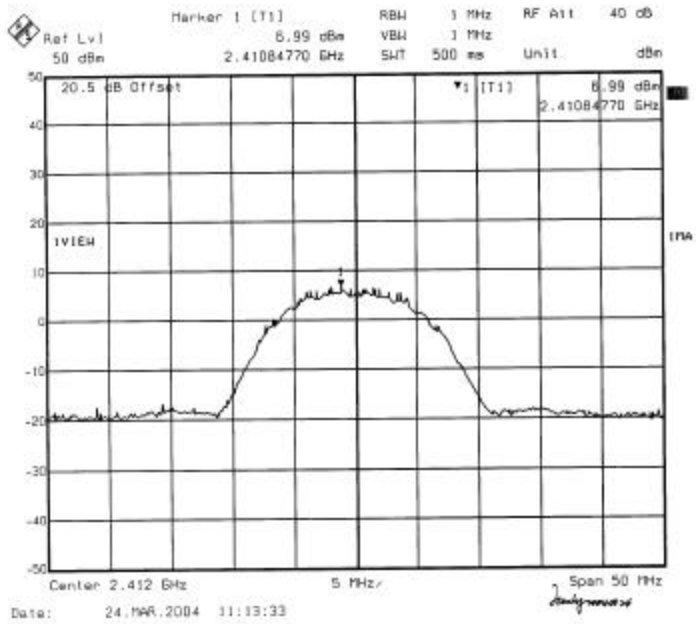
(2.4GHz-2.4835GHz) Middle Channel BPSK 802.11g



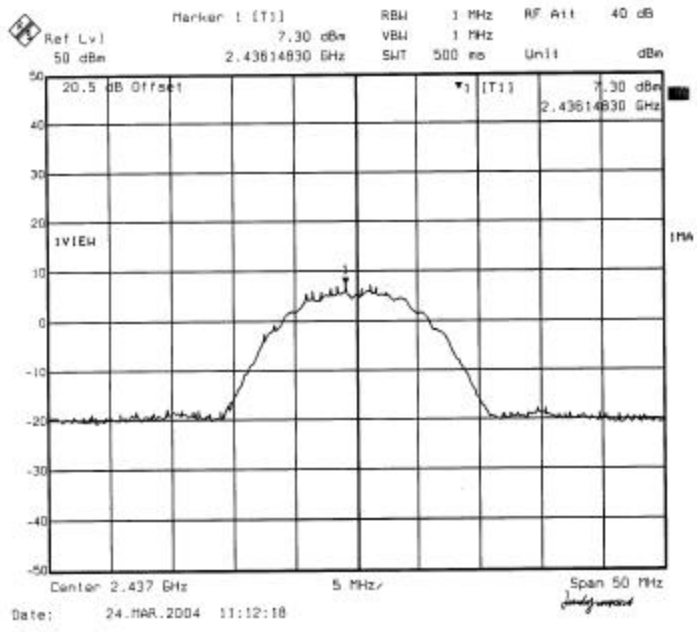
(2.4GHz-2.4835GHz) High Channel BPSK 802.11g



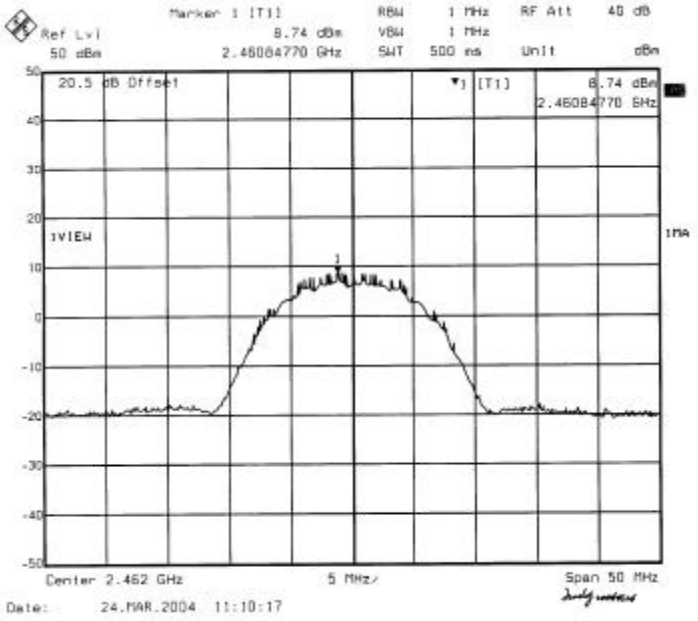
(2.4GHz-2.4835GHz) Low Channel BPSK 802.11b



(2.4GHz-2.4835GHz) Middle Channel BPSK 802.11b



(2.4GHz-2.4835GHz) High Channel BPSK 802.11b



§15.247(a)(2) & §15.407 – 6 DB BANDWIDTH and 26 DB BANDWIDTH

Standard Applicable

According to §15.247(a)(2), for direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz. According to §15.407, 26dB Bandwidth should be shown.

Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth. (6 dB bandwidth for DTS)
4. Same as (3) except 26 dB. (26dB bandwidth for UNII)
5. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R/S	Spectrum Analyzer	FSEM	849720/019	2003-10-30	2004-10-29

Measurement Result

Environmental Conditions

Temperature:	24° C
Relative Humidity:	63%
ATM Pressure:	1100 mbar

2.4GHz-2.4835GHz 6dB bandwidth BPSK 802.11b

Channel	Frequency (MHz)	Measured (MHz)	Standard (kHz)	Result
Low Channel	2412	12.53 MHz	≥ 500	Pass
Middle Channel	2437	12.22 MHz	≥ 500	Pass
High Channel	2462	12.63 MHz	≥ 500	Pass

2.4GHz-2.4835GHz 6dB bandwidth BPSK 802.11g

Channel	Frequency (MHz)	Measured (MHz)	Standard (kHz)	Result
Low Channel	2412	12.63 MHz	≥ 500	Pass
Middle Channel	2437	13.02MHz	≥ 500	Pass
High Channel	2462	12.63MHz	≥ 500	Pass

5.15GHz-5.25GHz 26dB bandwidth BPSK 802.11a

Channel	Frequency (MHz)	Measured (MHz)	Standard (kHz)	Result
Low Channel	5175	26.15MHz	≥ 500	Pass
Middle Channel	5201	26.15MHz	≥ 500	Pass
High Channel	5234	24.05MHz	≥ 500	Pass

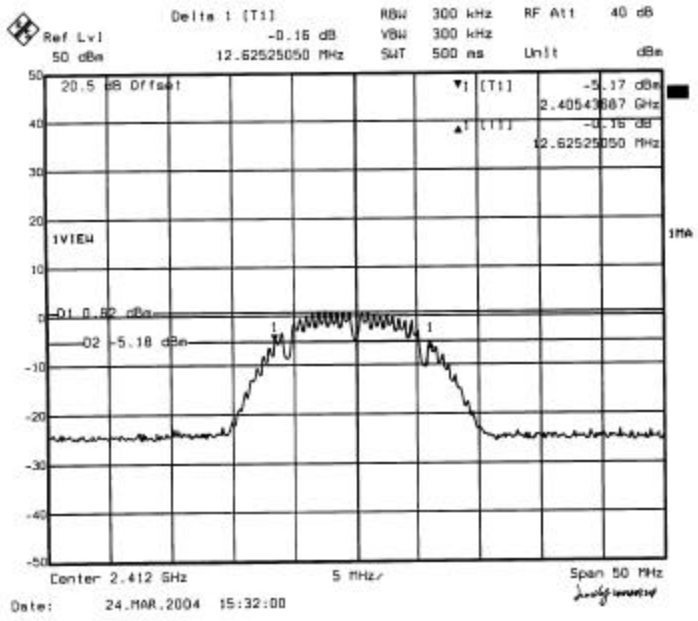
5.25GHz-5.35GHz 26dB bandwidth BPSK 802.11a

Channel	Frequency (MHz)	Measured (MHz)	Standard (kHz)	Result
Low Channel	5258	31.56MHz	≥ 500	Pass
Middle Channel	5284	33.97MHz	≥ 500	Pass
High Channel	5320	28.06MHz	≥ 500	Pass

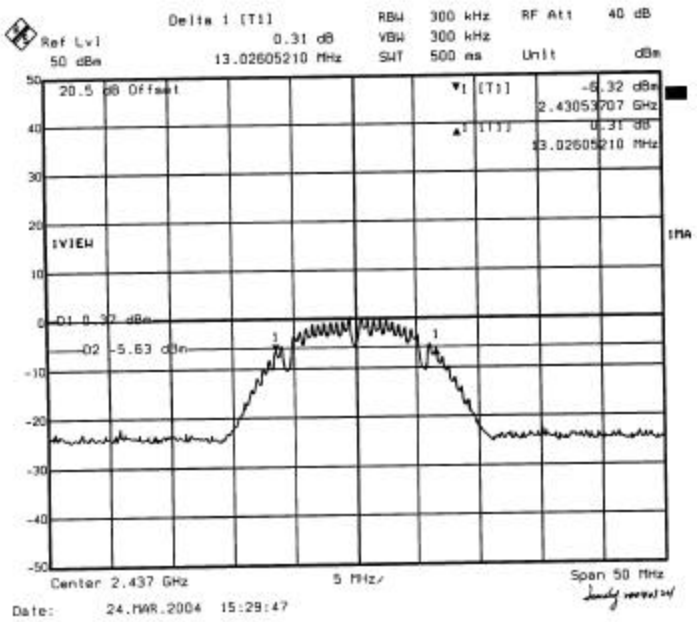
5.725GHz-5.825GHz 26dB bandwidth BPSK 802.11a

Channel	Frequency (MHz)	Measured (MHz)	Standard (kHz)	Result
Low Channel	5746	35.67MHz	≥ 500	Pass
Middle Channel	5785	30.16MHz	≥ 500	Pass
High Channel	5806	27.66MHz	≥ 500	Pass

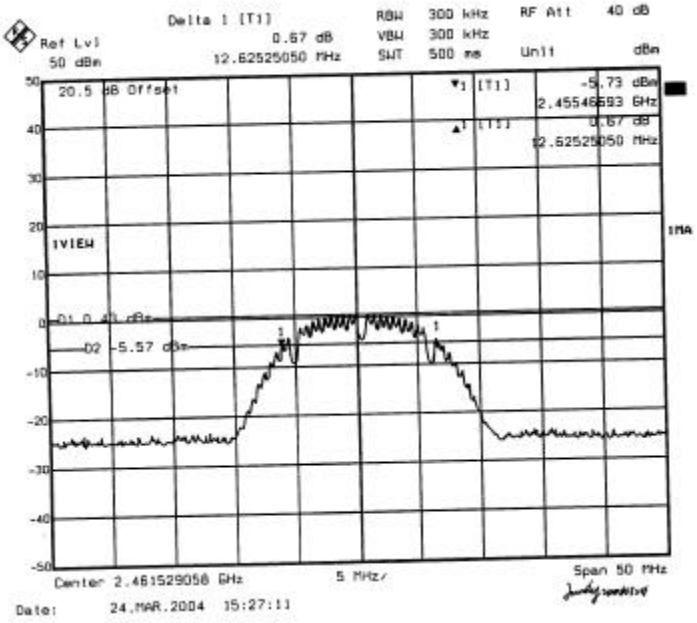
(2.4GHz-2.4835GHz) Low Channel BPSK 802.11g



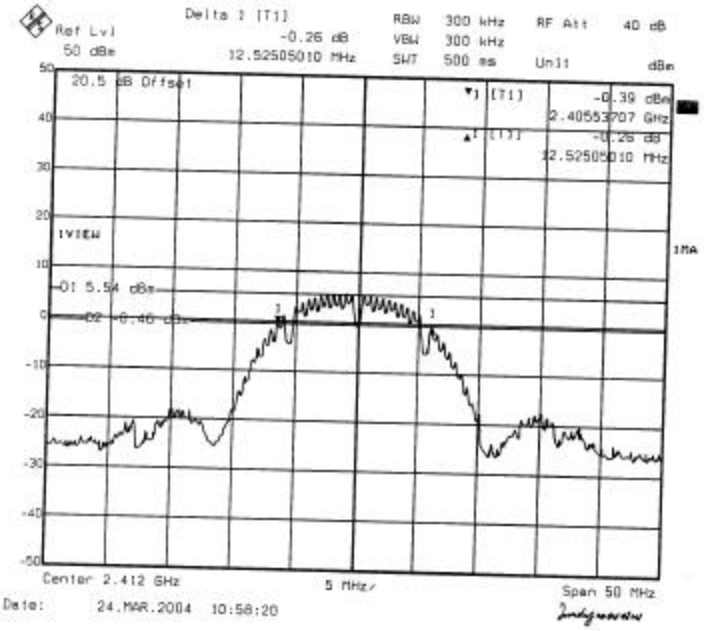
(2.4GHz-2.4835GHz) Middle Channel BPSK 802.11g



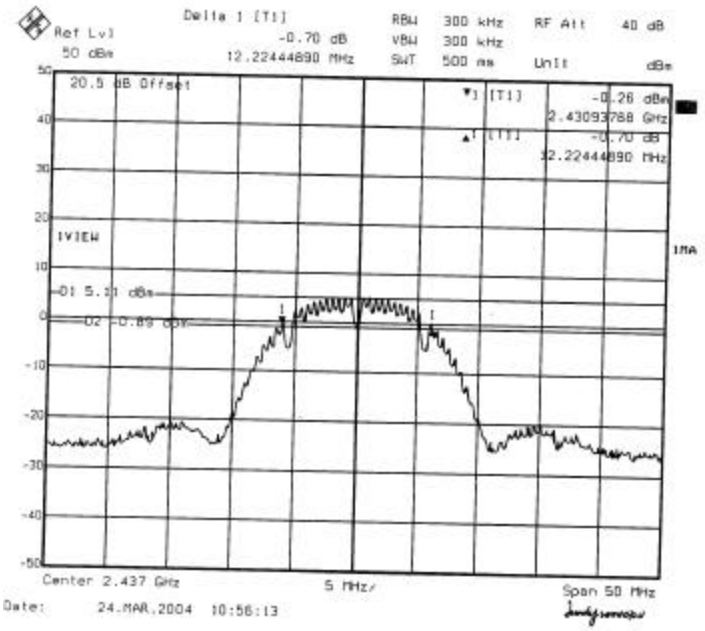
(2.4GHz-2.4835GHz) High Channel BPSK 802.11g



(2.4GHz-2.4835GHz) Low Channel BPSK 802.11b



(2.4GHz-2.4835GHz) Middle Channel BPSK 802.11b



(2.4GHz-2.4835GHz) High Channel BPSK 802.11b