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Appendix B: Emission Test Results

Testing Laboratory: Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134, USA

Radiated Spurious Emissions

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)).

Using Vasona, configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer). Place the radio in continuous transmit mode.

Span:	1GHz – 18 GHz
Reference Level:	80 dBuV
Attenuation:	10 dB
Sweep Time:	Coupled
Resolution Bandwidth:	1MHz
Video Bandwidth:	1 MHz for peak, 10 Hz for average
Detector:	Peak

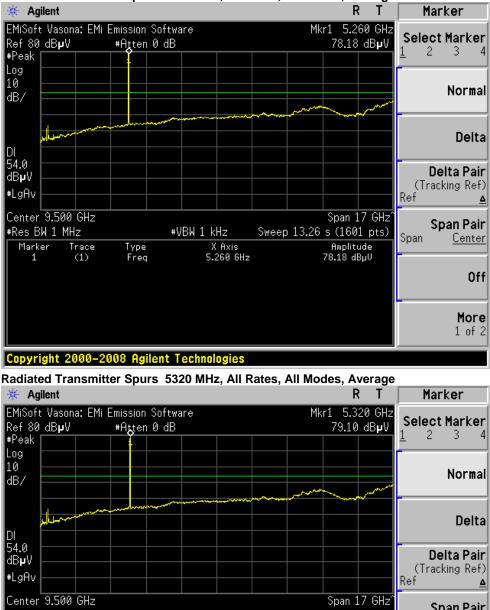
Maximize Turntable (find worst case table angle), Maximize Antenna (find worst case height)

Save 2 plots: 1) Average Plot (Vertical and Horizontal), Limit= 54dBuV @3m 2) Peak plot (Vertical and Horizontal), Limit = 74dBuV @3m

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands.

This report represents the worst case data for all supported operating modes and antennas. There are no measurable emissions above 18 GHz.

Transmitter Radiated Spurious Emissions



Radiated Transmitter Spurs 5260 MHz, All Rates, All Modes, Average

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Radiated Transmitter Spurs 5320 MHz, All Rates, All Modes, Average Span Pair #Res BW 1 MHz Sweep 13.26 s (1601 pts) #VBW 1 kHz Span Center Type Freq X Axis 5.320 GHz Amplitude 79.10 dBµV Marker Trace (1)1 Off More 1 of 2 Copyright 2000–2008 Agilent Technologies

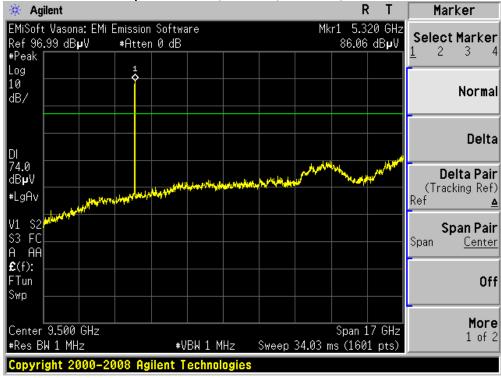
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K Agilent		RT	Marker
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.enter 9.500 GHZ Res BW 1 MHz #VBW 1 N		pan 17 GHz (1601 pts)	1 of 2

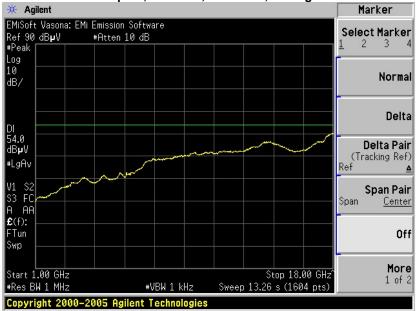
Radiated Transmitter Spurs 5260 MHz, All Rates, All Modes, Peak

Radiated Transmitter Spurs 5320 MHz, All Rates, All Modes, Peak



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Receiver Radiated Spurious Emissions

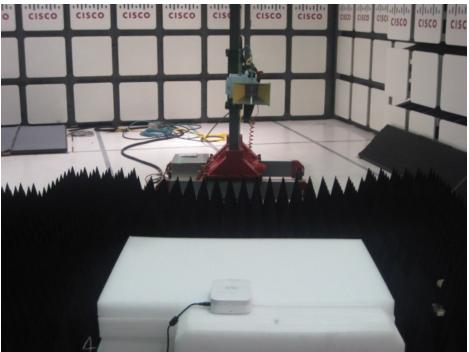


Radiated Receiver Spurs, All Rates, All Modes, Average

Radiated Receiver Spurs, All Rates, All Modes, Peak



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Radiated Test Setup

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