

Appendix A: Test Data

Duty cycle						
Mode	Frequency (MHz)	On time (ms)	On+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	2412	12.232	12.312	99.350	0.028	0.010
802.11g	2412	2.034	2.066	98.451	0.068	0.010
802.11n HT20	2412	1.894	1.926	98.339	0.073	0.010
802.11n HT40	2422	0.931	0.979	95.097	0.218	1.074
802.11n VHT20	2412	1.906	1.938	98.349	0.072	0.010
802.11n VHT40	2422	0.939	0.987	95.137	0.217	1.065

2.4 GHz Band				
Mode	CH	Freq. (MHz)	RF power setting in Test SW	Test SW Version
			Ant-0	
802.11b	1	2412	16.50	QRCT/4.0.209.0
802.11b	6	2437	16.50	
802.11b	11	2462	17.50	
802.11g	1	2412	16.50	
802.11g	6	2437	16.50	
802.11g	11	2462	16.50	
802.11n HT20	1	2412	16.50	
802.11n HT20	6	2437	16.50	
802.11n HT20	11	2462	16.00	
802.11n HT40	3	2422	15.50	
802.11n HT40	6	2437	15.50	
802.11n HT40	9	2452	14.50	
802.11n VHT20	1	2412	16.50	
802.11n VHT20	6	2437	16.50	
802.11n VHT20	11	2462	16.00	
802.11n VHT40	3	2422	15.50	
802.11n VHT40	6	2437	15.50	
802.11n VHT40	9	2452	14.50	

2.4 GHz Band Config			
Mode	Channel	Freq. (MHz)	Data Rate
802.11b	1	2412	1M
802.11b	6	2437	1M
802.11b	11	2462	1M
802.11g	1	2412	6M
802.11g	6	2437	6M
802.11g	11	2462	6M
802.11n HT20	1	2412	6.5M
802.11n HT20	6	2437	6.5M
802.11n HT20	11	2462	6.5M
802.11n HT40	3	2422	13.5M
802.11n HT40	6	2437	13.5M
802.11n HT40	9	2452	13.5M
802.11n VHT20	1	2412	MCS0
802.11n VHT20	6	2437	MCS0
802.11n VHT20	11	2462	MCS0
802.11n VHT40	3	2422	MCS0
802.11n VHT40	6	2437	MCS0
802.11n VHT40	9	2452	MCS0

2.4 GHz Band					
Mode	CH	Freq. (MHz)	Avg Conducted Power (dBm)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)
			Ant-0	Ant-0	Ant-0
802.11b	1	2412	16.36	17.31	30.00
802.11b	6	2437	16.61	17.42	30.00
802.11b	11	2462	17.69	18.54	30.00
802.11g	1	2412	16.09	18.64	30.00
802.11g	6	2437	16.32	18.99	30.00
802.11g	11	2462	16.21	18.59	30.00
802.11n HT20	1	2412	16.05	18.71	30.00
802.11n HT20	6	2437	16.18	18.90	30.00
802.11n HT20	11	2462	15.52	18.28	30.00
802.11n HT40	3	2422	15.82	17.51	30.00
802.11n HT40	6	2437	15.95	17.91	30.00
802.11n HT40	9	2452	14.50	16.26	30.00
802.11n VHT20	1	2412	16.08	18.75	30.00
802.11n VHT20	6	2437	16.22	18.93	30.00
802.11n VHT20	11	2462	15.61	18.33	30.00
802.11n VHT40	3	2422	15.85	17.54	30.00
802.11n VHT40	6	2437	15.98	17.94	30.00
802.11n VHT40	9	2452	14.59	16.34	30.00

6 dB Bandwidth			
Mode	Freq. (MHz)	6 dB Bandwidth (kHz)	6 dB Bandwidth Min.Limit (kHz)
		Ant-0	
802.11b	2412	8574	≥ 500
802.11b	2437	8593	≥ 500
802.11b	2462	8598	≥ 500
802.11g	2412	15470	≥ 500
802.11g	2437	15730	≥ 500
802.11g	2462	15750	≥ 500
802.11n VHT20	2412	15170	≥ 500
802.11n VHT20	2437	16100	≥ 500
802.11n VHT20	2462	16380	≥ 500
802.11n VHT40	2422	35810	≥ 500
802.11n VHT40	2437	35170	≥ 500
802.11n VHT40	2452	35190	≥ 500

99 % Occupied BW		
Mode	Freq. (MHz)	99 % Occupied BW (MHz)
		Ant-0
802.11b	2412	13.711
802.11b	2437	13.923
802.11b	2462	14.071
802.11g	2412	16.851
802.11g	2437	17.056
802.11g	2462	17.130
802.11n VHT20	2412	17.923
802.11n VHT20	2437	18.130
802.11n VHT20	2462	18.233
802.11n VHT40	2422	36.587
802.11n VHT40	2437	36.610
802.11n VHT40	2452	36.435

Maximum Power Spectral Density Measurement			
Mode	Freq. (MHz)	Measurement (dBm/3 kHz)	Max.Limit (dBm/ 3 kHz)
		Ant-0	Ant-0
802.11b	2412	-6.92	8.00
802.11b	2437	-6.51	8.00
802.11b	2462	-4.79	8.00
802.11g	2412	-8.98	8.00
802.11g	2437	-8.62	8.00
802.11g	2462	-8.91	8.00
802.11n VHT20	2412	-9.43	8.00
802.11n VHT20	2437	-9.16	8.00
802.11n VHT20	2462	-9.04	8.00
802.11n VHT40	2422	-12.61	8.00
802.11n VHT40	2437	-12.15	8.00
802.11n VHT40	2452	-13.78	8.00