

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	12.480	12.570	99.284	0.031	0.010
802.11g	2412	2.076	2.196	94.536	0.244	0.482
802.11n HT20	2412	1.932	2.082	92.795	0.325	0.518
802.11n HT40	2422	0.861	1.011	85.163	0.697	1.161

2.4 GHz Band							
Mode	CH	Freq. (MHz)	RF power setting in Test SW				Test SW Version
			Ant-0	Ant-1	Ant-2	Ant-3	
802.11b	1	2412	47.00	50.00	-	-	Tera Term
802.11b	6	2437	47.00	50.00	-	-	
802.11b	11	2462	49.00	52.00	-	-	
802.11b	12	2467	50.00	52.00	-	-	
802.11b	13	2472	49.00	52.00	-	-	
802.11g	1	2412	54.00	58.00	-	-	
802.11g	6	2437	54.00	58.00	-	-	
802.11g	11	2462	55.00	58.00	-	-	
802.11g	12	2467	49.00	52.00	-	-	
802.11g	13	2472	38.00	41.00	-	-	
802.11n HT20	1	2412	49.00	53.00	-	-	
802.11n HT20	6	2437	49.00	53.00	-	-	
802.11n HT20	11	2462	50.00	54.00	-	-	
802.11n HT20	12	2467	47.00	51.00	-	-	
802.11n HT20	13	2472	33.00	37.00	-	-	
802.11n HT40	3	2422	49.00	53.00	-	-	
802.11n HT40	6	2437	49.00	53.00	-	-	
802.11n HT40	9	2452	45.00	49.00	-	-	
802.11n HT40	10	2457	45.00	49.00	-	-	
802.11n HT40	11	2462	36.00	40.00	-	-	

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
802.11b	12	2467	1M
802.11b	13	2472	1M
802.11g	1	2412	6M
802.11g	6	2437	6M
802.11g	11	2462	6M
802.11g	12	2467	6M
802.11g	13	2472	6M
802.11n HT20	1	2412	13M
802.11n HT20	6	2437	13M
802.11n HT20	11	2462	13M
802.11n HT20	12	2467	13M
802.11n HT20	13	2472	13M
802.11n HT40	3	2422	27M
802.11n HT40	6	2437	27M
802.11n HT40	9	2452	27M
802.11n HT40	10	2457	27M
802.11n HT40	11	2462	27M

2.4 GHz Band																	
Mode	CH	Freq. (MHz)	Avg Conducted Power (dBm)					Peak Conducted Power (dBm)					Conducted Power Limit (dBm)				
			Ant-0	Ant-1	Ant-2	Ant-3	SUM	Ant-0	Ant-1	Ant-2	Ant-3	SUM	Ant-0	Ant-1	Ant-2	Ant-3	SUM
802.11b	1	2412	17.25	17.14	-	-	20.21	20.16	20.08	-	-	23.13	30.00	30.00	-	-	30.00
802.11b	6	2437	17.06	17.12	-	-	20.10	19.86	20.03	-	-	22.96	30.00	30.00	-	-	30.00
802.11b	11	2462	17.24	17.06	-	-	20.16	20.13	19.96	-	-	23.06	30.00	30.00	-	-	30.00
802.11b	12	2467	17.28	17.28	-	-	20.29	20.22	20.20	-	-	23.22	30.00	30.00	-	-	30.00
802.11b	13	2472	17.16	17.16	-	-	20.17	20.02	20.15	-	-	23.10	30.00	30.00	-	-	30.00
802.11g	1	2412	17.26	17.39	-	-	20.34	24.54	24.55	-	-	27.56	30.00	30.00	-	-	30.00
802.11g	6	2437	17.16	17.32	-	-	20.25	24.43	24.43	-	-	27.44	30.00	30.00	-	-	30.00
802.11g	11	2462	17.04	17.08	-	-	20.07	24.28	24.32	-	-	27.31	30.00	30.00	-	-	30.00
802.11g	12	2467	14.32	14.55	-	-	17.45	22.90	23.08	-	-	26.00	30.00	30.00	-	-	30.00
802.11g	13	2472	9.28	9.49	-	-	12.40	18.70	18.95	-	-	21.84	30.00	30.00	-	-	30.00
802.11n HT20	1	2412	15.18	15.21	-	-	18.21	23.91	23.94	-	-	26.94	30.00	30.00	-	-	30.00
802.11n HT20	6	2437	15.06	15.18	-	-	18.13	23.82	23.85	-	-	26.85	30.00	30.00	-	-	30.00
802.11n HT20	11	2462	15.05	15.19	-	-	18.13	23.78	23.88	-	-	26.84	30.00	30.00	-	-	30.00
802.11n HT20	12	2467	13.59	13.90	-	-	16.76	22.93	23.19	-	-	26.07	30.00	30.00	-	-	30.00
802.11n HT20	13	2472	7.27	7.46	-	-	10.38	16.76	17.56	-	-	20.19	30.00	30.00	-	-	30.00
802.11n HT40	3	2422	15.26	15.31	-	-	18.30	24.21	24.33	-	-	27.28	30.00	30.00	-	-	30.00
802.11n HT40	6	2437	15.15	15.32	-	-	18.25	24.04	24.41	-	-	27.24	30.00	30.00	-	-	30.00
802.11n HT40	9	2452	13.05	13.46	-	-	16.27	22.20	22.99	-	-	25.62	30.00	30.00	-	-	30.00
802.11n HT40	10	2457	13.04	13.42	-	-	16.24	22.16	22.91	-	-	25.56	30.00	30.00	-	-	30.00
802.11n HT40	11	2462	8.82	9.14	-	-	11.99	17.79	18.50	-	-	21.17	30.00	30.00	-	-	30.00

6 dB Bandwidth						
Mode	Freq. (MHz)	6 dB Bandwidth (kHz)				6 dB Bandwidth Min.Limit (kHz)
		Ant-0	Ant-1	Ant-2	Ant-3	
802.11b	2412	9125	9120	-	-	≥ 500
802.11b	2437	9566	9103	-	-	≥ 500
802.11b	2462	9108	9106	-	-	≥ 500
802.11b	2467	9132	9098	-	-	≥ 500
802.11b	2472	9120	9105	-	-	≥ 500
802.11g	2412	16120	16340	-	-	≥ 500
802.11g	2437	16330	16340	-	-	≥ 500
802.11g	2462	16110	16330	-	-	≥ 500
802.11g	2467	16330	16350	-	-	≥ 500
802.11g	2472	16330	16340	-	-	≥ 500
802.11n HT20	2412	16860	17060	-	-	≥ 500
802.11n HT20	2437	16940	16940	-	-	≥ 500
802.11n HT20	2462	16950	16890	-	-	≥ 500
802.11n HT20	2467	17600	17010	-	-	≥ 500
802.11n HT20	2472	16950	16570	-	-	≥ 500
802.11n HT40	2422	35740	35670	-	-	≥ 500
802.11n HT40	2437	35690	35670	-	-	≥ 500
802.11n HT40	2452	35740	35700	-	-	≥ 500
802.11n HT40	2457	35770	35730	-	-	≥ 500
802.11n HT40	2462	35670	35910	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	13.472	13.431	-	-
802.11b	2437	13.499	13.468	-	-
802.11b	2462	13.525	13.528	-	-
802.11b	2467	13.545	13.506	-	-
802.11b	2472	13.543	13.511	-	-
802.11g	2412	16.701	16.641	-	-
802.11g	2437	16.695	16.629	-	-
802.11g	2462	16.701	16.625	-	-
802.11g	2467	16.650	16.552	-	-
802.11g	2472	16.649	16.549	-	-
802.11n HT20	2412	17.701	17.712	-	-
802.11n HT20	2437	17.688	17.702	-	-
802.11n HT20	2462	17.691	17.724	-	-
802.11n HT20	2467	17.685	17.705	-	-
802.11n HT20	2472	17.688	17.691	-	-
802.11n HT40	2422	36.792	36.809	-	-
802.11n HT40	2437	36.787	36.795	-	-
802.11n HT40	2452	36.787	36.781	-	-
802.11n HT40	2457	36.747	36.795	-	-
802.11n HT40	2462	36.760	36.758	-	-

Maximum Power Spectral Density Measurement											
Mode	Freq. (MHz)	Measurement (dBm/3 kHz)					Max.Limit (dBm/ 3 kHz)				
		Ant-0	Ant-1	Ant-2	Ant-3	SUM	Ant-0	Ant-1	Ant-2	Ant-3	SUM
802.11b	2412	-7.59	-7.29	-	-	-4.43	8.00	8.00	-	-	8.00
802.11b	2437	-8.27	-7.18	-	-	-4.68	8.00	8.00	-	-	8.00
802.11b	2462	-6.36	-7.30	-	-	-3.79	8.00	8.00	-	-	8.00
802.11b	2467	-7.11	-5.22	-	-	-3.05	8.00	8.00	-	-	8.00
802.11b	2472	-7.07	-7.26	-	-	-4.15	8.00	8.00	-	-	8.00
802.11g	2412	-10.06	-9.65	-	-	-6.84	8.00	8.00	-	-	8.00
802.11g	2437	-10.22	-9.38	-	-	-6.77	8.00	8.00	-	-	8.00
802.11g	2462	-10.17	-10.32	-	-	-7.23	8.00	8.00	-	-	8.00
802.11g	2467	-12.44	-12.33	-	-	-9.37	8.00	8.00	-	-	8.00
802.11g	2472	-17.44	-17.47	-	-	-14.44	8.00	8.00	-	-	8.00
802.11n HT20	2412	-12.09	-11.88	-	-	-8.97	8.00	8.00	-	-	8.00
802.11n HT20	2437	-12.58	-12.34	-	-	-9.45	8.00	8.00	-	-	8.00
802.11n HT20	2462	-12.75	-11.70	-	-	-9.18	8.00	8.00	-	-	8.00
802.11n HT20	2467	-13.93	-13.53	-	-	-10.72	8.00	8.00	-	-	8.00
802.11n HT20	2472	-20.29	-19.70	-	-	-16.97	8.00	8.00	-	-	8.00
802.11n HT40	2422	-14.47	-13.76	-	-	-11.09	8.00	8.00	-	-	8.00
802.11n HT40	2437	-14.66	-14.01	-	-	-11.31	8.00	8.00	-	-	8.00
802.11n HT40	2452	-16.77	-16.33	-	-	-13.53	8.00	8.00	-	-	8.00
802.11n HT40	2457	-16.90	-16.05	-	-	-13.44	8.00	8.00	-	-	8.00
802.11n HT40	2462	-20.73	-20.37	-	-	-17.54	8.00	8.00	-	-	8.00