

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	10.000	10.000	100.000	0.000	0.010
802.11g	2412	10.000	10.000	100.000	0.000	0.010
802.11n HT20	2412	10.000	10.000	100.000	0.000	0.010
802.11n HT40	2422	10.000	10.000	100.000	0.000	0.010

2.4 GHz Band							
Mode	Channel	Freq. (MHz)	RF power setting in Test SW				Test SW Version
			Ant-0	Ant-1	Ant-2	Ant-3	
802.11b	1	2412	87.00	87.00	-	-	RTL8822CU MP/0.0001.1020.2018
802.11b	6	2437	84.00	84.00	-	-	
802.11b	11	2462	90.00	90.00	-	-	
802.11g	1	2412	67.00	67.00	-	-	
802.11g	6	2437	78.00	78.00	-	-	
802.11g	11	2462	70.00	70.00	-	-	
802.11n HT20	1	2412	65.00	65.00	-	-	
802.11n HT20	6	2437	71.00	71.00	-	-	
802.11n HT20	11	2462	70.00	70.00	-	-	
802.11n HT40	3	2422	59.00	59.00	-	-	
802.11n HT40	6	2437	71.00	71.00	-	-	
802.11n HT40	9	2452	59.00	59.00	-	-	

2.4 GHz Band																		
Mode	CH	Freq. (MHz)	Data Rate	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	1M	17.51	16.78	-	-	20.17	18.03	17.33	-	-	20.70	30.00	30.00	-	-	30.00
802.11b	6	2437	1M	15.11	16.69	-	-	18.98	15.46	16.99	-	-	19.30	30.00	30.00	-	-	30.00
802.11b	11	2462	1M	16.18	14.18	-	-	18.30	16.77	14.48	-	-	18.78	30.00	30.00	-	-	30.00
802.11g	1	2412	6M	16.08	15.68	-	-	18.89	19.87	19.54	-	-	22.72	30.00	30.00	-	-	30.00
802.11g	6	2437	6M	16.56	18.92	-	-	20.91	19.72	21.82	-	-	23.91	30.00	30.00	-	-	30.00
802.11g	11	2462	6M	14.72	12.98	-	-	16.95	18.15	17.67	-	-	20.93	30.00	30.00	-	-	30.00
802.11n HT20	1	2412	13M	15.65	15.19	-	-	18.44	19.04	18.24	-	-	21.67	30.00	30.00	-	-	30.00
802.11n HT20	6	2437	13M	15.22	17.13	-	-	19.29	18.33	20.06	-	-	22.29	30.00	30.00	-	-	30.00
802.11n HT20	11	2462	13M	14.29	13.04	-	-	16.72	17.39	16.22	-	-	19.85	30.00	30.00	-	-	30.00
802.11n HT40	3	2422	27M	12.77	12.95	-	-	15.87	15.96	16.49	-	-	19.24	30.00	30.00	-	-	30.00
802.11n HT40	6	2437	27M	15.02	16.91	-	-	19.08	17.73	19.96	-	-	22.00	30.00	30.00	-	-	30.00
802.11n HT40	9	2452	27M	12.36	14.31	-	-	16.45	15.44	17.73	-	-	19.74	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	10150	10150	-	-	≥ 500
802.11b	2437	10140	10140	-	-	≥ 500
802.11b	2462	10170	12080	-	-	≥ 500
802.11g	2412	16410	16410	-	-	≥ 500
802.11g	2437	16420	16400	-	-	≥ 500
802.11g	2462	16420	16420	-	-	≥ 500
802.11n HT20	2412	17650	17610	-	-	≥ 500
802.11n HT20	2437	17650	17610	-	-	≥ 500
802.11n HT20	2462	17650	17600	-	-	≥ 500
802.11n HT40	2422	36420	36360	-	-	≥ 500
802.11n HT40	2437	36440	36370	-	-	≥ 500
802.11n HT40	2452	36430	36360	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	14.937	14.698	-	-
802.11b	2437	14.833	14.742	-	-
802.11b	2462	14.935	14.713	-	-
802.11g	2412	16.550	16.471	-	-
802.11g	2437	16.577	16.530	-	-
802.11g	2462	16.593	16.517	-	-
802.11n HT20	2412	17.787	17.636	-	-
802.11n HT20	2437	17.783	17.633	-	-
802.11n HT20	2462	17.789	17.626	-	-
802.11n HT40	2422	36.482	36.175	-	-
802.11n HT40	2437	36.505	36.168	-	-
802.11n HT40	2452	36.512	36.168	-	-

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	-12.85	-13.52	-	-	-10.16	8.00	8.00	-	-	8.00
802.11b	2437	-15.28	-13.71	-	-	-11.41	8.00	8.00	-	-	8.00
802.11b	2462	-14.50	-17.16	-	-	-12.62	8.00	8.00	-	-	8.00
802.11g	2412	-12.09	-12.43	-	-	-9.25	8.00	8.00	-	-	8.00
802.11g	2437	-11.03	-9.51	-	-	-7.19	8.00	8.00	-	-	8.00
802.11g	2462	-13.21	-14.93	-	-	-10.98	8.00	8.00	-	-	8.00
802.11n HT20	2412	-11.45	-12.08	-	-	-8.74	8.00	8.00	-	-	8.00
802.11n HT20	2437	-10.94	-9.71	-	-	-7.27	8.00	8.00	-	-	8.00
802.11n HT20	2462	-12.04	-13.68	-	-	-9.77	8.00	8.00	-	-	8.00
802.11n HT40	2422	-15.21	-16.16	-	-	-12.65	8.00	8.00	-	-	8.00
802.11n HT40	2437	-13.94	-12.74	-	-	-10.29	8.00	8.00	-	-	8.00
802.11n HT40	2452	-16.24	-15.24	-	-	-12.70	8.00	8.00	-	-	8.00