

## 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	8.388	8.432	99.478	0.023	0.010
802.11g	2412	1.416	1.448	97.790	0.097	0.706
802.11n HT20	2412	0.680	0.725	93.793	0.278	1.471
802.11n HT40	2422	0.357	0.402	88.806	0.516	2.801

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	16.00	16.00	-	-	ADB
802.11b	6	2437	18.00	18.00	-	-	
802.11b	11	2462	15.50	15.50	-	-	
802.11b	12	2467	11.00	11.00	-	-	
802.11b	13	2472	9.50	9.50	-	-	
802.11g	1	2412	17.00	17.00	-	-	
802.11g	6	2437	18.50	18.50	-	-	
802.11g	11	2462	16.00	16.00	-	-	
802.11g	12	2467	13.50	13.50	-	-	
802.11g	13	2472	6.50	6.50	-	-	
802.11n HT20	1	2412	15.50	15.50	-	-	
802.11n HT20	6	2437	19.50	19.50	-	-	
802.11n HT20	11	2462	16.00	16.00	-	-	
802.11n HT20	12	2467	13.00	13.00	-	-	
802.11n HT20	13	2472	2.50	2.50	-	-	
802.11n HT40	3	2422	13.50	13.50	-	-	
802.11n HT40	6	2437	20.00	20.00	-	-	
802.11n HT40	9	2452	14.50	14.50	-	-	
802.11n HT40	10	2457	11.50	11.50	-	-	
802.11n HT40	11	2462	7.50	7.50	-	-	

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
802.11b	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

FCC+IC																						
Mode	CH	Freq. (MHz)	Avg Conducted Power (dBm)					Peak Conducted Power (dBm)					EIRP Power (dBm)					EIRP 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	Ant-0	Ant-1	Ant-2	Ant-3	SUM
802.11b	1	2412	17.00	16.48	-	-	19.76	-	-	-	-	-	19.58	19.06	-	-	22.34	36.00	36.00	-	-	36.00
802.11b	6	2437	19.22	18.74	-	-	22.00	-	-	-	-	-	21.80	21.32	-	-	24.58	36.00	36.00	-	-	36.00
802.11b	11	2462	16.40	16.07	-	-	19.25	-	-	-	-	-	18.98	18.65	-	-	21.83	36.00	36.00	-	-	36.00
802.11b	12	2467	11.76	12.06	-	-	14.92	-	-	-	-	-	14.34	14.64	-	-	17.50	36.00	36.00	-	-	36.00
802.11b	13	2472	10.28	10.59	-	-	13.45	-	-	-	-	-	12.86	13.17	-	-	16.03	36.00	36.00	-	-	36.00
802.11g	1	2412	17.82	17.06	-	-	20.47	-	-	-	-	-	20.40	19.64	-	-	23.05	36.00	36.00	-	-	36.00
802.11g	6	2437	19.19	17.94	-	-	21.62	-	-	-	-	-	21.77	20.52	-	-	24.20	36.00	36.00	-	-	36.00
802.11g	11	2462	16.71	16.24	-	-	19.49	-	-	-	-	-	19.29	18.82	-	-	22.07	36.00	36.00	-	-	36.00
802.11g	12	2467	14.69	13.54	-	-	17.16	-	-	-	-	-	17.27	16.12	-	-	19.74	36.00	36.00	-	-	36.00
802.11g	13	2472	7.49	7.58	-	-	10.55	-	-	-	-	-	10.07	10.16	-	-	13.13	36.00	36.00	-	-	36.00
802.11n HT20	1	2412	16.30	15.61	-	-	18.98	-	-	-	-	-	18.88	18.19	-	-	21.56	36.00	36.00	-	-	36.00
802.11n HT20	6	2437	20.42	19.17	-	-	22.85	-	-	-	-	-	23.00	21.75	-	-	25.43	36.00	36.00	-	-	36.00
802.11n HT20	11	2462	16.72	16.21	-	-	19.48	-	-	-	-	-	19.30	18.79	-	-	22.06	36.00	36.00	-	-	36.00
802.11n HT20	12	2467	13.92	13.01	-	-	16.50	-	-	-	-	-	16.50	15.59	-	-	19.08	36.00	36.00	-	-	36.00
802.11n HT20	13	2472	3.23	3.51	-	-	6.38	-	-	-	-	-	5.81	6.09	-	-	8.96	36.00	36.00	-	-	36.00
802.11n HT40	3	2422	14.26	13.68	-	-	16.99	-	-	-	-	-	16.84	16.26	-	-	19.57	36.00	36.00	-	-	36.00
802.11n HT40	6	2437	20.51	19.35	-	-	22.98	-	-	-	-	-	23.09	21.93	-	-	25.56	36.00	36.00	-	-	36.00
802.11n HT40	9	2452	15.25	14.78	-	-	18.03	-	-	-	-	-	17.83	17.36	-	-	20.61	36.00	36.00	-	-	36.00
802.11n HT40	10	2457	12.42	11.29	-	-	14.90	-	-	-	-	-	15.00	13.87	-	-	17.48	36.00	36.00	-	-	36.00
802.11n HT40	11	2462	8.44	8.60	-	-	11.53	-	-	-	-	-	11.02	11.18	-	-	14.11	36.00	36.00	-	-	36.00

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	9559	9094	-	-	≥ 500
802.11b	2437	9123	8572	-	-	≥ 500
802.11b	2462	9107	9097	-	-	≥ 500
802.11b	2467	9066	9093	-	-	≥ 500
802.11b	2472	8584	9093	-	-	≥ 500
802.11g	2412	15150	15160	-	-	≥ 500
802.11g	2437	15160	15150	-	-	≥ 500
802.11g	2462	15170	15160	-	-	≥ 500
802.11g	2467	15160	15150	-	-	≥ 500
802.11g	2472	15160	15160	-	-	≥ 500
802.11n HT20	2412	15160	15160	-	-	≥ 500
802.11n HT20	2437	15150	15160	-	-	≥ 500
802.11n HT20	2462	15170	15160	-	-	≥ 500
802.11n HT20	2467	15150	15160	-	-	≥ 500
802.11n HT20	2472	15160	15150	-	-	≥ 500
802.11n HT40	2422	35190	35170	-	-	≥ 500
802.11n HT40	2437	35140	35130	-	-	≥ 500
802.11n HT40	2452	35190	35170	-	-	≥ 500
802.11n HT40	2457	35150	35130	-	-	≥ 500
802.11n HT40	2462	35140	35130	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	13.548	13.466	-	-
802.11b	2437	13.766	13.903	-	-
802.11b	2462	13.545	13.430	-	-
802.11b	2467	13.287	13.390	-	-
802.11b	2472	13.312	13.385	-	-
802.11g	2412	16.755	16.531	-	-
802.11g	2437	16.799	16.568	-	-
802.11g	2462	16.784	16.532	-	-
802.11g	2467	16.739	16.522	-	-
802.11g	2472	16.738	16.453	-	-
802.11n HT20	2412	17.663	17.630	-	-
802.11n HT20	2437	17.722	18.083	-	-
802.11n HT20	2462	17.645	17.641	-	-
802.11n HT20	2467	17.644	17.621	-	-
802.11n HT20	2472	17.665	17.602	-	-
802.11n HT40	2422	36.341	36.311	-	-
802.11n HT40	2437	36.677	36.583	-	-
802.11n HT40	2452	36.324	36.307	-	-
802.11n HT40	2457	36.179	36.227	-	-
802.11n HT40	2462	36.189	36.195	-	-

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	1.84	4.98	-	-	6.70	8.00	8.00	-	-	8.00
802.11b	2437	4.19	4.23	-	-	7.22	8.00	8.00	-	-	8.00
802.11b	2462	-0.36	-0.45	-	-	2.61	8.00	8.00	-	-	8.00
802.11b	2467	-12.36	-9.39	-	-	-7.62	8.00	8.00	-	-	8.00
802.11b	2472	-12.94	-3.44	-	-	-2.98	8.00	8.00	-	-	8.00
802.11g	2412	-7.87	-8.48	-	-	-5.15	8.00	8.00	-	-	8.00
802.11g	2437	-5.28	-8.25	-	-	-3.51	8.00	8.00	-	-	8.00
802.11g	2462	-8.31	-9.74	-	-	-5.96	8.00	8.00	-	-	8.00
802.11g	2467	-11.59	-12.49	-	-	-9.01	8.00	8.00	-	-	8.00
802.11g	2472	-19.07	-18.08	-	-	-15.54	8.00	8.00	-	-	8.00
802.11n HT20	2412	-9.55	-9.85	-	-	-6.69	8.00	8.00	-	-	8.00
802.11n HT20	2437	-6.10	-4.87	-	-	-2.43	8.00	8.00	-	-	8.00
802.11n HT20	2462	-9.36	-8.32	-	-	-5.80	8.00	8.00	-	-	8.00
802.11n HT20	2467	-11.80	-11.45	-	-	-8.61	8.00	8.00	-	-	8.00
802.11n HT20	2472	-21.15	-22.34	-	-	-18.69	8.00	8.00	-	-	8.00
802.11n HT40	2422	-13.77	-14.84	-	-	-11.26	8.00	8.00	-	-	8.00
802.11n HT40	2437	-7.26	-8.38	-	-	-4.77	8.00	8.00	-	-	8.00
802.11n HT40	2452	-12.93	-12.80	-	-	-9.85	8.00	8.00	-	-	8.00
802.11n HT40	2457	-15.90	-15.82	-	-	-12.85	8.00	8.00	-	-	8.00
802.11n HT40	2462	-18.42	-18.30	-	-	-15.35	8.00	8.00	-	-	8.00