

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	30.000	30.000	100.000	0.000	0.010
802.11g	2412	2.110	2.115	99.764	0.010	0.010
802.11n HT20	2412	30.000	30.000	100.000	0.000	0.010
802.11n HT40	2422	30.000	30.000	100.000	0.000	0.010
802.11n VHT20	2412	30.000	30.000	100.000	0.000	0.010
802.11n VHT40	2422	30.000	30.000	100.000	0.000	0.010
802.11ax HE20	2412	30.000	30.000	100.000	0.000	0.010
802.11ax HE40	2422	30.000	30.000	100.000	0.000	0.010

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	15.00	15.00	-	-	QRCT 4.0.209.0
802.11b	6	2437	15.00	15.00	-	-	
802.11b	11	2462	15.00	15.00	-	-	
802.11g	1	2412	14.00	14.00	-	-	
802.11g	6	2437	15.00	15.00	-	-	
802.11g	11	2462	15.00	15.00	-	-	
802.11n HT20	1	2412	14.50	14.50	-	-	
802.11n HT20	6	2437	15.00	15.00	-	-	
802.11n HT20	11	2462	15.00	15.00	-	-	
802.11n HT40	3	2422	14.00	14.00	-	-	
802.11n HT40	6	2437	14.50	14.50	-	-	
802.11n HT40	9	2452	14.50	14.50	-	-	
802.11n VHT20	1	2412	14.50	14.50	-	-	
802.11n VHT20	6	2437	15.00	15.00	-	-	
802.11n VHT20	11	2462	15.00	15.00	-	-	
802.11n VHT40	3	2422	14.00	14.00	-	-	
802.11n VHT40	6	2437	14.50	14.50	-	-	
802.11n VHT40	9	2452	14.50	14.50	-	-	
802.11ax HE20	1	2412	14.50	14.50	-	-	
802.11ax HE20	6	2437	15.00	15.00	-	-	
802.11ax HE20	11	2462	15.00	15.00	-	-	
802.11ax HE40	3	2422	14.50	14.50	-	-	
802.11ax HE40	6	2437	14.50	14.50	-	-	
802.11ax HE40	9	2452	14.00	14.00	-	-	

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	14.71	15.13	-	-	17.94	17.28	17.70	-	-	20.51	30.00	30.00	-	-	30.00
802.11b	6	2437	1M	14.97	14.93	-	-	17.96	16.71	17.43	-	-	20.10	30.00	30.00	-	-	30.00
802.11b	11	2462	1M	14.58	15.04	-	-	17.83	16.93	17.37	-	-	20.17	30.00	30.00	-	-	30.00
802.11g	1	2412	6M	14.17	14.71	-	-	17.46	22.25	22.92	-	-	25.61	30.00	30.00	-	-	30.00
802.11g	6	2437	6M	14.49	15.29	-	-	17.92	22.51	23.41	-	-	25.99	30.00	30.00	-	-	30.00
802.11g	11	2462	6M	14.68	15.21	-	-	17.96	22.59	22.93	-	-	25.77	30.00	30.00	-	-	30.00
802.11n HT20	1	2412	13M	14.25	14.89	-	-	17.59	22.17	22.88	-	-	25.55	30.00	30.00	-	-	30.00
802.11n HT20	6	2437	13M	14.39	15.02	-	-	17.73	22.31	22.92	-	-	25.64	30.00	30.00	-	-	30.00
802.11n HT20	11	2462	13M	14.50	15.07	-	-	17.80	22.38	22.99	-	-	25.71	30.00	30.00	-	-	30.00
802.11n HT40	3	2422	27M	13.82	13.79	-	-	16.82	21.51	21.47	-	-	24.50	30.00	30.00	-	-	30.00
802.11n HT40	6	2437	27M	14.40	14.95	-	-	17.69	22.05	22.71	-	-	25.40	30.00	30.00	-	-	30.00
802.11n HT40	9	2452	27M	14.09	14.64	-	-	17.38	21.78	22.18	-	-	24.99	30.00	30.00	-	-	30.00
802.11n VHT20	1	2412	MCS0	14.28	14.90	-	-	17.61	22.29	22.99	-	-	25.66	30.00	30.00	-	-	30.00
802.11n VHT20	6	2437	MCS0	14.41	15.10	-	-	17.78	22.36	23.06	-	-	25.73	30.00	30.00	-	-	30.00
802.11n VHT20	11	2462	MCS0	14.57	15.13	-	-	17.87	22.52	23.12	-	-	25.84	30.00	30.00	-	-	30.00
802.11n VHT40	3	2422	MCS0	13.86	13.89	-	-	16.89	21.58	21.61	-	-	24.61	30.00	30.00	-	-	30.00
802.11n VHT40	6	2437	MCS0	14.45	15.03	-	-	17.76	22.14	22.83	-	-	25.51	30.00	30.00	-	-	30.00
802.11n VHT40	9	2452	MCS0	14.22	14.69	-	-	17.47	21.82	22.20	-	-	25.02	30.00	30.00	-	-	30.00
802.11ax HE20	1	2412	MCS0	14.31	15.02	-	-	17.69	23.10	23.48	-	-	26.30	30.00	30.00	-	-	30.00
802.11ax HE20	6	2437	MCS0	14.33	15.21	-	-	17.80	22.95	24.10	-	-	26.57	30.00	30.00	-	-	30.00
802.11ax HE20	11	2462	MCS0	14.64	15.21	-	-	17.94	22.71	23.99	-	-	26.41	30.00	30.00	-	-	30.00
802.11ax HE40	3	2422	MCS0	14.12	14.09	-	-	17.12	22.35	22.15	-	-	25.26	30.00	30.00	-	-	30.00
802.11ax HE40	6	2437	MCS0	14.21	15.04	-	-	17.66	22.48	23.05	-	-	25.78	30.00	30.00	-	-	30.00
802.11ax HE40	9	2452	MCS0	13.58	13.66	-	-	16.63	21.64	21.78	-	-	24.72	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	8099	8101	-	-	≥ 500
802.11b	2437	8113	7615	-	-	≥ 500
802.11b	2462	8580	8582	-	-	≥ 500
802.11g	2412	15970	16370	-	-	≥ 500
802.11g	2437	16380	16380	-	-	≥ 500
802.11g	2462	16390	16380	-	-	≥ 500
802.11n VHT20	2412	16350	17320	-	-	≥ 500
802.11n VHT20	2437	17590	17570	-	-	≥ 500
802.11n VHT20	2462	17600	17580	-	-	≥ 500
802.11n VHT40	2422	35410	35970	-	-	≥ 500
802.11n VHT40	2437	36330	35710	-	-	≥ 500
802.11n VHT40	2452	35570	36100	-	-	≥ 500
802.11ax HE20	2412	18600	18880	-	-	≥ 500
802.11ax HE20	2437	19010	18840	-	-	≥ 500
802.11ax HE20	2462	19010	18960	-	-	≥ 500
802.11ax HE40	2422	37660	36580	-	-	≥ 500
802.11ax HE40	2437	38080	38080	-	-	≥ 500
802.11ax HE40	2452	37680	37830	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	12.730	12.881	-	-
802.11b	2437	13.141	12.922	-	-
802.11b	2462	13.372	13.222	-	-
802.11g	2412	16.376	16.358	-	-
802.11g	2437	16.510	16.387	-	-
802.11g	2462	16.532	16.443	-	-
802.11n VHT20	2412	17.502	17.531	-	-
802.11n VHT20	2437	17.659	17.568	-	-
802.11n VHT20	2462	17.671	17.627	-	-
802.11n VHT40	2422	36.112	36.210	-	-
802.11n VHT40	2437	36.336	36.135	-	-
802.11n VHT40	2452	36.155	36.316	-	-
802.11ax HE20	2412	18.849	18.859	-	-
802.11ax HE20	2437	18.972	18.917	-	-
802.11ax HE20	2462	19.035	18.991	-	-
802.11ax HE40	2422	37.771	37.815	-	-
802.11ax HE40	2437	37.990	37.963	-	-
802.11ax HE40	2452	37.786	37.837	-	-

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	-8.59	-8.17	-	-	-5.36	8.00	8.00	-	-	8.00
802.11b	2437	-8.22	-8.87	-	-	-5.52	8.00	8.00	-	-	8.00
802.11b	2462	-7.85	-8.55	-	-	-5.18	8.00	8.00	-	-	8.00
802.11g	2412	-10.58	-10.28	-	-	-7.42	8.00	8.00	-	-	8.00
802.11g	2437	-9.50	-9.55	-	-	-6.51	8.00	8.00	-	-	8.00
802.11g	2462	-9.21	-8.81	-	-	-6.00	8.00	8.00	-	-	8.00
802.11n VHT20	2412	-11.28	-10.52	-	-	-7.87	8.00	8.00	-	-	8.00
802.11n VHT20	2437	-11.23	-8.39	-	-	-6.57	8.00	8.00	-	-	8.00
802.11n VHT20	2462	-11.76	-8.65	-	-	-6.92	8.00	8.00	-	-	8.00
802.11n VHT40	2422	-14.44	-15.02	-	-	-11.71	8.00	8.00	-	-	8.00
802.11n VHT40	2437	-13.88	-13.41	-	-	-10.63	8.00	8.00	-	-	8.00
802.11n VHT40	2452	-14.30	-13.56	-	-	-10.90	8.00	8.00	-	-	8.00
802.11ax HE20	2412	-11.21	-11.37	-	-	-8.28	8.00	8.00	-	-	8.00
802.11ax HE20	2437	-11.50	-10.63	-	-	-8.03	8.00	8.00	-	-	8.00
802.11ax HE20	2462	-11.83	-10.93	-	-	-8.35	8.00	8.00	-	-	8.00
802.11ax HE40	2422	-14.59	-15.01	-	-	-11.78	8.00	8.00	-	-	8.00
802.11ax HE40	2437	-14.31	-13.08	-	-	-10.64	8.00	8.00	-	-	8.00
802.11ax HE40	2452	-15.50	-15.31	-	-	-12.39	8.00	8.00	-	-	8.00