

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	8.460	9.030	93.688	0.283	0.118
802.11g	2412	1.410	2.010	70.149	1.540	0.709
802.11ax HE20	2412	0.550	1.195	46.025	3.370	1.818
802.11ax HE40	2422	0.074	0.090	82.222	0.850	13.514

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	14.00	14.00	-	-	adb
802.11b	6	2437	14.00	14.00	-	-	
802.11b	11	2462	14.00	14.00	-	-	
802.11g	1	2412	9.00	9.00	-	-	
802.11g	6	2437	9.00	9.00	-	-	
802.11g	11	2462	9.00	9.00	-	-	
802.11n HT20	1	2412	6.50	6.50	-	-	
802.11n HT20	6	2437	8.50	8.50	-	-	
802.11n HT20	11	2462	8.50	8.50	-	-	
802.11n HT40	3	2422	4.50	4.50	-	-	
802.11n HT40	6	2437	7.00	7.50	-	-	
802.11n HT40	9	2452	4.00	4.00	-	-	
802.11n VHT20	1	2412	6.50	6.50	-	-	
802.11n VHT20	6	2437	8.50	8.50	-	-	
802.11n VHT20	11	2462	8.50	8.50	-	-	
802.11n VHT40	3	2422	4.50	4.50	-	-	
802.11n VHT40	6	2437	7.00	7.50	-	-	
802.11n VHT40	9	2452	4.00	4.00	-	-	
802.11ax HE20	1	2412	6.50	6.50	-	-	
802.11ax HE20	6	2437	8.50	8.50	-	-	
802.11ax HE20	11	2462	8.50	8.50	-	-	
802.11ax HE40	3	2422	4.50	4.50	-	-	
802.11ax HE40	6	2437	7.00	7.50	-	-	
802.11ax HE40	9	2452	4.00	4.00	-	-	

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
802.11g	1	2412	6M
802.11g	6	2437	6M
802.11g	11	2462	6M
802.11n HT20	1	2412	13M
802.11n HT20	6	2437	13M
802.11n HT20	11	2462	13M
802.11n HT40	3	2422	27M
802.11n HT40	6	2437	27M
802.11n HT40	9	2452	27M
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
802.11ax HE20	1	2412	MCS0
802.11ax HE20	6	2437	MCS0
802.11ax HE20	11	2462	MCS0
802.11ax HE40	3	2422	MCS0
802.11ax HE40	6	2437	MCS0
802.11ax HE40	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-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	16.25	16.12	-	-	19.20	18.69	18.52	-	-	21.62	30.00	30.00	-	-	30.00
802.11b	6	2437	16.22	15.99	-	-	19.12	18.61	18.49	-	-	21.56	30.00	30.00	-	-	30.00
802.11b	11	2462	16.20	15.96	-	-	19.09	18.59	18.47	-	-	21.54	30.00	30.00	-	-	30.00
802.11g	1	2412	10.45	10.01	-	-	13.25	17.95	17.80	-	-	20.89	30.00	30.00	-	-	30.00
802.11g	6	2437	10.41	9.96	-	-	13.20	17.87	17.55	-	-	20.72	30.00	30.00	-	-	30.00
802.11g	11	2462	10.37	9.91	-	-	13.16	17.79	17.52	-	-	20.67	30.00	30.00	-	-	30.00
802.11n HT20	1	2412	7.02	6.70	-	-	9.87	16.20	15.76	-	-	19.00	30.00	30.00	-	-	30.00
802.11n HT20	6	2437	8.84	8.64	-	-	11.75	16.65	16.52	-	-	19.60	30.00	30.00	-	-	30.00
802.11n HT20	11	2462	8.81	8.62	-	-	11.73	16.63	16.49	-	-	19.57	30.00	30.00	-	-	30.00
802.11n HT40	3	2422	4.07	3.89	-	-	6.99	14.24	13.46	-	-	16.88	30.00	30.00	-	-	30.00
802.11n HT40	6	2437	6.26	6.14	-	-	9.21	16.37	16.09	-	-	19.24	30.00	30.00	-	-	30.00
802.11n HT40	9	2452	2.80	2.73	-	-	5.78	12.91	12.57	-	-	15.75	30.00	30.00	-	-	30.00
802.11n VHT20	1	2412	7.12	6.75	-	-	9.95	16.28	15.85	-	-	19.08	30.00	30.00	-	-	30.00
802.11n VHT20	6	2437	8.90	8.69	-	-	11.81	16.70	16.56	-	-	19.64	30.00	30.00	-	-	30.00
802.11n VHT20	11	2462	8.86	8.67	-	-	11.78	16.65	16.52	-	-	19.60	30.00	30.00	-	-	30.00
802.11n VHT40	3	2422	4.27	4.02	-	-	7.16	14.42	13.68	-	-	17.08	30.00	30.00	-	-	30.00
802.11n VHT40	6	2437	6.48	6.42	-	-	9.46	16.57	16.33	-	-	19.46	30.00	30.00	-	-	30.00
802.11n VHT40	9	2452	3.09	2.85	-	-	5.98	13.05	12.85	-	-	15.96	30.00	30.00	-	-	30.00
802.11ax HE20	1	2412	7.35	6.97	-	-	10.17	16.32	15.90	-	-	19.13	30.00	30.00	-	-	30.00
802.11ax HE20	6	2437	8.95	8.79	-	-	11.88	16.73	16.58	-	-	19.67	30.00	30.00	-	-	30.00
802.11ax HE20	11	2462	8.97	8.77	-	-	11.88	16.69	16.55	-	-	19.63	30.00	30.00	-	-	30.00
802.11ax HE40	3	2422	4.50	4.32	-	-	7.42	14.70	13.98	-	-	17.37	30.00	30.00	-	-	30.00
802.11ax HE40	6	2437	6.84	6.69	-	-	9.78	16.79	16.66	-	-	19.74	30.00	30.00	-	-	30.00
802.11ax HE40	9	2452	3.35	3.12	-	-	6.25	13.28	13.10	-	-	16.20	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	8047	8103	-	-	≥ 500
802.11b	2437	8092	8104	-	-	≥ 500
802.11b	2462	8086	8079	-	-	≥ 500
802.11g	2412	15150	15140	-	-	≥ 500
802.11g	2437	15510	16300	-	-	≥ 500
802.11g	2462	15510	16290	-	-	≥ 500
802.11ax HE20	2412	17660	17600	-	-	≥ 500
802.11ax HE20	2437	18070	18260	-	-	≥ 500
802.11ax HE20	2462	18160	18090	-	-	≥ 500
802.11ax HE40	2422	36920	37060	-	-	≥ 500
802.11ax HE40	2437	37330	37330	-	-	≥ 500
802.11ax HE40	2452	37320	36250	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	12.399	12.603	-	-
802.11b	2437	12.484	12.603	-	-
802.11b	2462	12.481	12.588	-	-
802.11g	2412	16.594	16.485	-	-
802.11g	2437	17.503	17.081	-	-
802.11g	2462	17.509	17.075	-	-
802.11ax HE20	2412	18.824	18.799	-	-
802.11ax HE20	2437	19.075	19.033	-	-
802.11ax HE20	2462	19.047	19.034	-	-
802.11ax HE40	2422	38.109	38.093	-	-
802.11ax HE40	2437	38.024	38.133	-	-
802.11ax HE40	2452	38.092	38.044	-	-

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	-5.20	-5.67	-	-	-2.42	8.00	8.00	-	-	8.00
802.11b	2437	-5.75	-5.86	-	-	-2.79	8.00	8.00	-	-	8.00
802.11b	2462	-5.79	-6.27	-	-	-3.01	8.00	8.00	-	-	8.00
802.11g	2412	-13.85	-14.14	-	-	-10.98	8.00	8.00	-	-	8.00
802.11g	2437	-13.08	-13.88	-	-	-10.45	8.00	8.00	-	-	8.00
802.11g	2462	-13.81	-13.93	-	-	-10.86	8.00	8.00	-	-	8.00
802.11ax HE20	2412	-19.27	-20.28	-	-	-16.74	8.00	8.00	-	-	8.00
802.11ax HE20	2437	-18.33	-17.74	-	-	-15.01	8.00	8.00	-	-	8.00
802.11ax HE20	2462	-17.43	-18.14	-	-	-14.76	8.00	8.00	-	-	8.00
802.11ax HE40	2422	-19.82	-20.05	-	-	-16.92	8.00	8.00	-	-	8.00
802.11ax HE40	2437	-16.84	-17.08	-	-	-13.95	8.00	8.00	-	-	8.00
802.11ax HE40	2452	-20.29	-20.43	-	-	-17.35	8.00	8.00	-	-	8.00