

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	0.696	0.702	99.145	0.037	0.010
802.11g	2412	1.990	1.995	99.749	0.011	0.010
802.11n HT20	2412	5.480	5.600	97.857	0.094	0.182
802.11n HT40	2422	5.480	5.600	97.857	0.094	0.182
802.11ax HE20	2412	5.480	5.620	97.509	0.110	0.182
802.11ax HE40	2422	5.500	5.600	98.214	0.078	0.010
802.11be EHT20	2412	5.500	5.620	97.865	0.094	0.182
802.11be EHT40	2422	5.480	5.580	98.208	0.079	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	26.00	26.00	-	-	QSPR Version 5.0.00202
802.11b	6	2437	27.00	27.00	-	-	
802.11b	11	2462	26.00	26.00	-	-	
802.11g	1	2412	22.50	22.50	-	-	
802.11g	2	2417	25.50	25.00	-	-	
802.11g	3	2422	25.00	25.00	-	-	
802.11g	6	2437	27.50	27.50	-	-	
802.11g	10	2457	26.00	26.00	-	-	
802.11g	11	2462	24.00	24.00	-	-	
802.11n HT20	1	2412	22.50	22.50	-	-	
802.11n HT20	2	2417	24.50	24.50	-	-	
802.11n HT20	6	2437	26.50	26.50	-	-	
802.11n HT20	10	2457	26.00	26.00	-	-	
802.11n HT20	11	2462	23.00	23.00	-	-	
802.11n HT40	3	2422	20.00	20.00	-	-	
802.11n HT40	4	2427	21.00	21.00	-	-	
802.11n HT40	6	2437	24.00	24.00	-	-	
802.11n HT40	9	2452	21.00	21.00	-	-	
802.11ax HE20	1	2412	22.00	22.00	-	-	
802.11ax HE20	2	2417	24.00	24.00	-	-	
802.11ax HE20	6	2437	27.00	27.00	-	-	
802.11ax HE20	10	2457	24.50	24.50	-	-	
802.11ax HE20	11	2462	23.50	23.50	-	-	
802.11ax HE40	3	2422	20.00	20.00	-	-	
802.11ax HE40	4	2427	21.50	21.50	-	-	
802.11ax HE40	6	2437	24.00	24.00	-	-	
802.11ax HE40	9	2452	22.00	22.00	-	-	
802.11be EHT20	1	2412	22.00	22.00	-	-	
802.11be EHT20	2	2417	24.00	24.00	-	-	
802.11be EHT20	6	2437	27.00	27.00	-	-	
802.11be EHT20	10	2457	24.50	24.50	-	-	
802.11be EHT20	11	2462	23.50	23.50	-	-	
802.11be EHT40	3	2422	20.00	20.00	-	-	
802.11be EHT40	4	2427	21.50	21.50	-	-	
802.11be EHT40	6	2437	24.00	24.00	-	-	
802.11be EHT40	9	2452	22.00	22.00	-	-	

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	2	2417	6M
802.11g	3	2422	6M
802.11g	6	2437	6M
802.11g	10	2457	6M
802.11g	11	2462	6M
802.11n HT20	1	2412	13M
802.11n HT20	2	2417	13M
802.11n HT20	6	2437	13M
802.11n HT20	10	2457	13M
802.11n HT20	11	2462	13M
802.11n HT40	3	2422	27M
802.11n HT40	4	2427	27M
802.11n HT40	6	2437	27M
802.11n HT40	9	2452	27M
802.11ax HE20	1	2412	MCS0
802.11ax HE20	2	2417	MCS0
802.11ax HE20	6	2437	MCS0
802.11ax HE20	10	2457	MCS0
802.11ax HE20	11	2462	MCS0
802.11ax HE40	3	2422	MCS0
802.11ax HE40	4	2427	MCS0
802.11ax HE40	6	2437	MCS0
802.11ax HE40	9	2452	MCS0
802.11be EHT20	1	2412	MCS0
802.11be EHT20	2	2417	MCS0
802.11be EHT20	6	2437	MCS0
802.11be EHT20	10	2457	MCS0
802.11be EHT20	11	2462	MCS0
802.11be EHT40	3	2422	MCS0
802.11be EHT40	4	2427	MCS0
802.11be EHT40	6	2437	MCS0
802.11be EHT40	9	2452	MCS0

2.4 GHz Band												
Mode	CH	Freq. (MHz)	Avg 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
802.11b	1	2412	25.35	26.48	-	-	28.96	30.00	30.00	-	-	30.00
802.11b	6	2437	26.63	26.93	-	-	29.79	30.00	30.00	-	-	30.00
802.11b	11	2462	25.30	25.50	-	-	28.41	30.00	30.00	-	-	30.00
802.11g	1	2412	22.24	22.50	-	-	25.38	30.00	30.00	-	-	30.00
802.11g	2	2417	25.07	25.32	-	-	28.21	30.00	30.00	-	-	30.00
802.11g	3	2422	24.40	24.54	-	-	27.48	30.00	30.00	-	-	30.00
802.11g	6	2437	25.32	26.27	-	-	28.83	30.00	30.00	-	-	30.00
802.11g	10	2457	25.54	25.63	-	-	28.60	30.00	30.00	-	-	30.00
802.11g	11	2462	23.45	23.70	-	-	26.59	30.00	30.00	-	-	30.00
802.11n HT20	1	2412	22.17	22.12	-	-	25.16	30.00	30.00	-	-	30.00
802.11n HT20	2	2417	24.14	24.49	-	-	27.33	30.00	30.00	-	-	30.00
802.11n HT20	6	2437	25.62	26.26	-	-	28.96	30.00	30.00	-	-	30.00
802.11n HT20	10	2457	25.48	25.67	-	-	28.59	30.00	30.00	-	-	30.00
802.11n HT20	11	2462	22.42	22.68	-	-	25.56	30.00	30.00	-	-	30.00
802.11n HT40	3	2422	20.34	20.29	-	-	23.33	30.00	30.00	-	-	30.00
802.11n HT40	4	2427	21.18	21.62	-	-	24.42	30.00	30.00	-	-	30.00
802.11n HT40	6	2437	24.10	24.43	-	-	27.28	30.00	30.00	-	-	30.00
802.11n HT40	9	2452	21.26	21.34	-	-	24.31	30.00	30.00	-	-	30.00
802.11ax HE20	1	2412	21.81	21.55	-	-	24.69	30.00	30.00	-	-	30.00
802.11ax HE20	2	2417	23.52	23.92	-	-	26.73	30.00	30.00	-	-	30.00
802.11ax HE20	6	2437	26.08	25.82	-	-	28.96	30.00	30.00	-	-	30.00
802.11ax HE20	10	2457	23.66	23.31	-	-	26.50	30.00	30.00	-	-	30.00
802.11ax HE20	11	2462	22.78	22.48	-	-	25.64	30.00	30.00	-	-	30.00
802.11ax HE40	3	2422	20.02	20.38	-	-	23.21	30.00	30.00	-	-	30.00
802.11ax HE40	4	2427	21.21	21.80	-	-	24.53	30.00	30.00	-	-	30.00
802.11ax HE40	6	2437	23.66	23.82	-	-	26.75	30.00	30.00	-	-	30.00
802.11ax HE40	9	2452	21.70	22.28	-	-	25.01	30.00	30.00	-	-	30.00
802.11be EHT20	1	2412	22.00	21.73	-	-	24.88	30.00	30.00	-	-	30.00
802.11be EHT20	2	2417	23.82	24.14	-	-	26.99	30.00	30.00	-	-	30.00
802.11be EHT20	6	2437	26.52	26.13	-	-	29.34	30.00	30.00	-	-	30.00
802.11be EHT20	10	2457	23.87	23.60	-	-	26.75	30.00	30.00	-	-	30.00
802.11be EHT20	11	2462	23.01	22.70	-	-	25.87	30.00	30.00	-	-	30.00
802.11be EHT40	3	2422	20.25	20.53	-	-	23.40	30.00	30.00	-	-	30.00
802.11be EHT40	4	2427	21.37	21.97	-	-	24.69	30.00	30.00	-	-	30.00
802.11be EHT40	6	2437	23.84	24.01	-	-	26.94	30.00	30.00	-	-	30.00
802.11be EHT40	9	2452	21.83	22.47	-	-	25.17	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	6141	5603	-	-	≥ 500
802.11b	2437	8552	8122	-	-	≥ 500
802.11b	2462	7652	8634	-	-	≥ 500
802.11g	2412	15160	13850	-	-	≥ 500
802.11g	2417	15080	12600	-	-	≥ 500
802.11g	2422	15090	13830	-	-	≥ 500
802.11g	2437	15080	13850	-	-	≥ 500
802.11g	2457	15140	15200	-	-	≥ 500
802.11g	2462	15090	13850	-	-	≥ 500
802.11n HT20	2412	15100	15690	-	-	≥ 500
802.11n HT20	2417	15050	15650	-	-	≥ 500
802.11n HT20	2437	15080	14450	-	-	≥ 500
802.11n HT20	2457	15140	15150	-	-	≥ 500
802.11n HT20	2462	15160	15690	-	-	≥ 500
802.11n HT40	2422	35160	35080	-	-	≥ 500
802.11n HT40	2427	35170	33890	-	-	≥ 500
802.11n HT40	2437	35160	31390	-	-	≥ 500
802.11n HT40	2452	35180	35140	-	-	≥ 500
802.11be EHT20	2412	15100	13840	-	-	≥ 500
802.11be EHT20	2417	13860	13830	-	-	≥ 500
802.11be EHT20	2437	15060	16850	-	-	≥ 500
802.11be EHT20	2457	16800	17760	-	-	≥ 500
802.11be EHT20	2462	16300	12610	-	-	≥ 500
802.11be EHT40	2422	35160	35160	-	-	≥ 500
802.11be EHT40	2427	36530	35280	-	-	≥ 500
802.11be EHT40	2437	35140	35120	-	-	≥ 500
802.11be EHT40	2452	36490	35150	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	13.365	13.548	-	-
802.11b	2437	13.112	12.772	-	-
802.11b	2462	13.088	12.790	-	-
802.11g	2412	16.869	16.872	-	-
802.11g	2417	16.975	16.965	-	-
802.11g	2422	17.010	16.997	-	-
802.11g	2437	17.041	17.024	-	-
802.11g	2457	16.939	16.787	-	-
802.11g	2462	16.918	16.937	-	-
802.11n HT20	2412	17.887	17.776	-	-
802.11n HT20	2417	17.878	17.804	-	-
802.11n HT20	2437	17.925	17.861	-	-
802.11n HT20	2457	17.841	17.813	-	-
802.11n HT20	2462	17.831	17.779	-	-
802.11n HT40	2422	37.153	36.589	-	-
802.11n HT40	2427	37.010	36.631	-	-
802.11n HT40	2437	37.050	36.608	-	-
802.11n HT40	2452	37.059	36.606	-	-
802.11be EHT20	2412	18.853	18.811	-	-
802.11be EHT20	2417	18.858	18.835	-	-
802.11be EHT20	2437	19.963	19.152	-	-
802.11be EHT20	2457	19.063	19.185	-	-
802.11be EHT20	2462	19.018	18.700	-	-
802.11be EHT40	2422	37.986	37.847	-	-
802.11be EHT40	2427	38.162	38.282	-	-
802.11be EHT40	2437	37.946	37.673	-	-
802.11be EHT40	2452	38.217	37.738	-	-

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	4.17	3.78	-	-	6.99	8.00	8.00	-	-	8.00
802.11b	2437	2.90	4.68	-	-	6.89	8.00	8.00	-	-	8.00
802.11b	2462	2.51	2.27	-	-	5.40	8.00	8.00	-	-	8.00
802.11g	2412	-2.59	0.00	-	-	1.91	8.00	8.00	-	-	8.00
802.11g	2417	0.58	2.44	-	-	4.62	8.00	8.00	-	-	8.00
802.11g	2422	-0.46	0.61	-	-	3.12	8.00	8.00	-	-	8.00
802.11g	2437	1.40	1.52	-	-	4.47	8.00	8.00	-	-	8.00
802.11g	2457	1.90	0.98	-	-	4.47	8.00	8.00	-	-	8.00
802.11g	2462	-0.79	0.04	-	-	2.66	8.00	8.00	-	-	8.00
802.11n HT20	2412	-2.58	-3.28	-	-	0.09	8.00	8.00	-	-	8.00
802.11n HT20	2417	0.98	0.33	-	-	3.68	8.00	8.00	-	-	8.00
802.11n HT20	2437	-0.50	1.61	-	-	3.69	8.00	8.00	-	-	8.00
802.11n HT20	2457	1.65	1.19	-	-	4.44	8.00	8.00	-	-	8.00
802.11n HT20	2462	-1.60	-1.63	-	-	1.40	8.00	8.00	-	-	8.00
802.11n HT40	2422	-5.25	-5.69	-	-	-2.45	8.00	8.00	-	-	8.00
802.11n HT40	2427	-5.41	-4.25	-	-	-1.78	8.00	8.00	-	-	8.00
802.11n HT40	2437	-1.99	-0.85	-	-	1.63	8.00	8.00	-	-	8.00
802.11n HT40	2452	-4.29	-4.49	-	-	-1.38	8.00	8.00	-	-	8.00
802.11be EHT20	2412	-1.16	-1.00	-	-	1.93	8.00	8.00	-	-	8.00
802.11be EHT20	2417	0.39	0.48	-	-	3.45	8.00	8.00	-	-	8.00
802.11be EHT20	2437	4.40	1.94	-	-	6.35	8.00	8.00	-	-	8.00
802.11be EHT20	2457	1.26	-0.39	-	-	3.52	8.00	8.00	-	-	8.00
802.11be EHT20	2462	-1.48	1.20	-	-	3.07	8.00	8.00	-	-	8.00
802.11be EHT40	2422	-6.06	-5.01	-	-	-2.49	8.00	8.00	-	-	8.00
802.11be EHT40	2427	-3.80	-1.98	-	-	0.21	8.00	8.00	-	-	8.00
802.11be EHT40	2437	-1.84	-2.60	-	-	0.81	8.00	8.00	-	-	8.00
802.11be EHT40	2452	-3.00	-5.20	-	-	-0.95	8.00	8.00	-	-	8.00