

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		30.000	30.000	100.000	0.000	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
802.11ax 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
Mode	Frequency (MHz)	Single RU	On time (ms)	On+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11ax HE20	2412	26	30.000	30.000	100.000	0.000	0.010
802.11ax HE20	2412	52	30.000	30.000	100.000	0.000	0.010
802.11ax HE20	2412	106	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	13.50	13.50	-	-	QRCT 4.0.193.1
802.11b	6	2437	14.00	14.00	-	-	
802.11b	11	2462	13.50	13.50	-	-	
802.11g	1	2412	15.00	15.00	-	-	
802.11g	6	2437	15.00	15.00	-	-	
802.11g	11	2462	15.00	15.00	-	-	
802.11n HT20	1	2412	14.00	14.00	-	-	
802.11n HT20	6	2437	14.00	14.00	-	-	
802.11n HT20	11	2462	13.50	13.50	-	-	
802.11n HT40	3	2422	14.00	14.00	-	-	
802.11n HT40	6	2437	13.50	13.50	-	-	
802.11n HT40	9	2452	12.50	12.50	-	-	
802.11ax HE20	1	2412	12.00	12.00	-	-	
802.11ax HE20	6	2437	12.00	12.00	-	-	
802.11ax HE20	11	2462	12.00	12.00	-	-	
802.11ax HE40	3	2422	11.00	11.00	-	-	
802.11ax HE40	6	2437	11.00	11.00	-	-	
802.11ax HE40	9	2452	11.00	11.00	-	-	

2.4 GHz Band								
Mode	Freq. (MHz)	Freq. (MHz)	Single RU	RF power setting in Test SW				Test SW Version
				Ant-0	Ant-1	Ant-2	Ant-3	
802.11ax HE20	1	2412	26	4.00	4.00	-	-	QRCT 4.0.193.1
802.11ax HE20	11	2462	26	4.50	4.50	-	-	
802.11ax HE20	1	2412	52	7.00	7.00	-	-	
802.11ax HE20	11	2462	52	7.00	7.00	-	-	
802.11ax HE20	1	2412	106	9.50	9.50	-	-	
802.11ax HE20	11	2462	106	9.50	9.50	-	-	

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
802.11g	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
802.11ax 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 Config					
Mode	Channel	Freq. (MHz)	Data Rate	Single RU	
				RU Config	RU Num.
802.11ax HE20	1	2412	MCS0	26	0
802.11ax HE20	11	2462	MCS0	26	8
802.11ax HE20	1	2412	MCS0	52	37
802.11ax HE20	11	2462	MCS0	52	40
802.11ax HE20	1	2412	MCS0	106	53
802.11ax HE20	11	2462	MCS0	106	54

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		13.14	13.78	-	-	16.48	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11b	6	2437		13.86	13.90	-	-	16.89	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11b	11	2462		13.47	13.90	-	-	16.70	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11g	1	2412		13.73	13.86	-	-	16.81	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11g	6	2437		13.80	14.00	-	-	16.91	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11g	11	2462		13.55	13.73	-	-	16.65	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11n HT20	1	2412		13.45	13.89	-	-	16.69	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11n HT20	6	2437		13.71	14.16	-	-	16.95	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11n HT20	11	2462		13.33	13.71	-	-	16.53	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11n HT40	3	2422		13.52	14.02	-	-	16.79	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11n HT40	6	2437		13.20	14.04	-	-	16.65	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11n HT40	9	2452		12.76	12.53	-	-	15.66	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11ax HE20	1	2412		11.81	12.01	-	-	14.92	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11ax HE20	6	2437		11.85	12.15	-	-	15.01	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11ax HE20	11	2462		12.04	12.03	-	-	15.05	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11ax HE40	3	2422		10.85	11.13	-	-	14.00	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11ax HE40	6	2437		10.72	11.64	-	-	14.21	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11ax HE40	9	2452		11.03	10.83	-	-	13.94	-	-	-	-	-	30.00	30.00	-	-	30.00
Mode	CH	Freq. (MHz)	Single RU	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
802.11ax HE20	1	2412	26	3.98	2.20	-	-	6.19	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11ax HE20	11	2462	26	4.20	2.35	-	-	6.38	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11ax HE20	1	2412	52	6.95	5.30	-	-	9.21	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11ax HE20	11	2462	52	6.85	5.05	-	-	9.05	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11ax HE20	1	2412	106	9.20	7.76	-	-	11.55	-	-	-	-	-	30.00	30.00	-	-	30.00
802.11ax HE20	11	2462	106	9.33	7.91	-	-	11.69	-	-	-	-	-	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	7222	7625	-	-	≥ 500
802.11b	2437	7206	7240	-	-	≥ 500
802.11b	2462	7202	7169	-	-	≥ 500
802.11g	2412	16610	16480	-	-	≥ 500
802.11g	2437	16450	16590	-	-	≥ 500
802.11g	2462	16410	16460	-	-	≥ 500
802.11n HT20	2412	17780	17690	-	-	≥ 500
802.11n HT20	2437	17710	17810	-	-	≥ 500
802.11n HT20	2462	17740	17710	-	-	≥ 500
802.11n HT40	2422	36310	36070	-	-	≥ 500
802.11n HT40	2437	36890	36930	-	-	≥ 500
802.11n HT40	2452	36900	36020	-	-	≥ 500
802.11ax HE20	2412	19230	19090	-	-	≥ 500
802.11ax HE20	2437	19070	19160	-	-	≥ 500
802.11ax HE20	2462	19160	18890	-	-	≥ 500
802.11ax HE40	2422	38270	37970	-	-	≥ 500
802.11ax HE40	2437	38350	38350	-	-	≥ 500
802.11ax HE40	2452	38520	37930	-	-	≥ 500

99 % Occupied BW					
Mode	Freq. (MHz)	99 % Occupied BW (MHz)			
		Ant-0	Ant-1	Ant-2	Ant-3
802.11b	2412	13.347	13.294	-	-
802.11b	2437	13.130	13.578	-	-
802.11b	2462	13.093	13.029	-	-
802.11g	2412	17.447	17.103	-	-
802.11g	2437	17.104	17.284	-	-
802.11g	2462	17.030	16.968	-	-
802.11n HT20	2412	18.540	18.151	-	-
802.11n HT20	2437	18.202	18.301	-	-
802.11n HT20	2462	18.105	17.984	-	-
802.11n HT40	2422	37.787	36.962	-	-
802.11n HT40	2437	37.830	37.584	-	-
802.11n HT40	2452	37.843	36.994	-	-
802.11ax HE20	2412	19.298	19.193	-	-
802.11ax HE20	2437	19.194	19.335	-	-
802.11ax HE20	2462	19.183	19.153	-	-
802.11ax HE40	2422	38.614	38.336	-	-
802.11ax HE40	2437	38.559	38.927	-	-
802.11ax HE40	2452	38.643	38.322	-	-

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		-8.89	-8.33	-	-	-5.59	8.00	8.00	-	-	8.00
802.11b	2437		-8.55	-8.44	-	-	-5.48	8.00	8.00	-	-	8.00
802.11b	2462		-8.35	-7.56	-	-	-4.93	8.00	8.00	-	-	8.00
802.11g	2412		-11.15	-9.52	-	-	-7.25	8.00	8.00	-	-	8.00
802.11g	2437		-11.32	-10.89	-	-	-8.09	8.00	8.00	-	-	8.00
802.11g	2462		-10.55	-10.42	-	-	-7.47	8.00	8.00	-	-	8.00
802.11n HT20	2412		-11.54	-10.77	-	-	-8.13	8.00	8.00	-	-	8.00
802.11n HT20	2437		-11.81	-11.62	-	-	-8.70	8.00	8.00	-	-	8.00
802.11n HT20	2462		-10.79	-10.62	-	-	-7.69	8.00	8.00	-	-	8.00
802.11n HT40	2422		-14.17	-13.70	-	-	-10.92	8.00	8.00	-	-	8.00
802.11n HT40	2437		-12.55	-12.06	-	-	-9.29	8.00	8.00	-	-	8.00
802.11n HT40	2452		-14.69	-14.36	-	-	-11.51	8.00	8.00	-	-	8.00
802.11ax HE20	2412		-13.55	-14.02	-	-	-10.77	8.00	8.00	-	-	8.00
802.11ax HE20	2437		-13.69	-11.48	-	-	-9.44	8.00	8.00	-	-	8.00
802.11ax HE20	2462		-14.52	-12.60	-	-	-10.44	8.00	8.00	-	-	8.00
802.11ax HE40	2422		-17.71	-17.23	-	-	-14.45	8.00	8.00	-	-	8.00
802.11ax HE40	2437		-17.66	-14.72	-	-	-12.94	8.00	8.00	-	-	8.00
802.11ax HE40	2452		-17.32	-17.03	-	-	-14.16	8.00	8.00	-	-	8.00
Mode	Freq. (MHz)	Single-RU	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
802.11ax HE20	2412	26	-13.69	-14.77	-	-	-11.19	8.00	8.00	-	-	8.00
802.11ax HE20	2462	26	-13.16	-14.24	-	-	-10.66	8.00	8.00	-	-	8.00
802.11ax HE20	2412	52	-13.13	-14.99	-	-	-10.95	8.00	8.00	-	-	8.00
802.11ax HE20	2462	52	-13.75	-13.93	-	-	-10.83	8.00	8.00	-	-	8.00
802.11ax HE20	2412	106	-13.50	-14.98	-	-	-11.17	8.00	8.00	-	-	8.00
802.11ax HE20	2462	106	-12.89	-14.40	-	-	-10.57	8.00	8.00	-	-	8.00