

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	0.657	0.663	99.095	0.039	0.010
802.11g	2412	10.000	10.000	100.000	0.000	0.010
802.11n HT20	2412	10.000	10.000	100.000	0.000	0.010
802.11n HT40	2422	5.419	5.422	99.945	0.002	0.010
802.11ax HE20	2412	10.000	10.000	100.000	0.000	0.010
802.11ax HE40	2422	5.400	5.408	99.852	0.006	0.010

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	MCS0
802.11n HT20	6	2437	MCS0
802.11n HT20	11	2462	MCS0
802.11n HT40	3	2422	MCS0
802.11n HT40	6	2437	MCS0
802.11n HT40	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 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 HE40	3	2422	MCS0	26	0
802.11ax HE40	9	2452	MCS0	26	17
802.11ax HE20	1	2412	MCS0	52	74
802.11ax HE20	11	2462	MCS0	52	77
802.11ax HE40	3	2422	MCS0	52	74
802.11ax HE40	9	2452	MCS0	52	81
Mod.	Channel	Freq. (MHz)	Data Rate	Single RU	
				RU Config	RU Num.
802.11ax HE20	1	2412	MCS0	106	106
802.11ax HE20	11	2462	MCS0	106	107
802.11ax HE40	3	2422	MCS0	106	106
802.11ax HE40	9	2452	MCS0	106	109
802.11ax HE40	3	2422	MCS0	242	122
802.11ax HE40	9	2452	MCS0	242	123

2.4 GHz Band						
Mode	CH	Freq. (MHz)	Avg Conducted Power (dBm)		Conducted Power Limit (dBm)	
			Ant-0	Ant-1	Ant-0	Ant-1
802.11b	1	2412	19.82	19.77	30.00	30.00
802.11b	6	2437	19.96	19.93	30.00	30.00
802.11b	11	2462	19.88	19.84	30.00	30.00
802.11g	1	2412	17.79	17.45	30.00	30.00
802.11g	6	2437	19.74	19.53	30.00	30.00
802.11g	10	2457	18.05	17.96	30.00	30.00
802.11g	11	2462	16.74	16.59	30.00	30.00
802.11n HT20	1	2412	17.77	17.61	30.00	30.00
802.11n HT20	6	2437	19.29	19.15	30.00	30.00
802.11n HT20	10	2457	17.78	17.60	30.00	30.00
802.11n HT20	11	2462	15.73	15.73	30.00	30.00
802.11n HT40	3	2422	15.80	15.43	30.00	30.00
802.11n HT40	6	2437	16.30	16.16	30.00	30.00
802.11n HT40	9	2452	16.79	16.52	30.00	30.00
802.11ax HE20	1	2412	16.85	16.70	30.00	30.00
802.11ax HE20	6	2437	17.38	17.31	30.00	30.00
802.11ax HE20	10	2457	16.79	16.68	30.00	30.00
802.11ax HE20	11	2462	15.83	15.76	30.00	30.00
802.11ax HE40	3	2422	15.39	15.06	30.00	30.00
802.11ax HE40	6	2437	15.89	15.77	30.00	30.00
802.11ax HE40	9	2452	16.83	16.78	30.00	30.00

2.4 GHz Band							
Mode	CH	Freq. (MHz)	Single RU	Avg Conducted Power (dBm)		Conducted Power Limit (dBm)	
				Ant-0	Ant-1	Ant-0	Ant-1
802.11ax HE20	1	2412	26	11.23	-	30.00	-
802.11ax HE20	11	2462	26	11.39	-	30.00	-
802.11ax HE40	3	2422	26	10.90	-	30.00	-
802.11ax HE40	9	2452	26	11.28	-	30.00	-
802.11ax HE20	1	2412	52	11.32	-	30.00	-
802.11ax HE20	11	2462	52	11.36	-	30.00	-
802.11ax HE40	3	2422	52	10.94	-	30.00	-
802.11ax HE40	9	2452	52	10.87	-	30.00	-
802.11ax HE20	1	2412	106	9.19	-	30.00	-
802.11ax HE20	11	2462	106	12.43	-	30.00	-
802.11ax HE40	3	2422	106	8.70	-	30.00	-
802.11ax HE40	9	2452	106	11.95	-	30.00	-
802.11ax HE40	3	2422	242	16.73	-	30.00	-
802.11ax HE40	9	2452	242	15.17	-	30.00	-

6 dB Bandwidth			
Mode	Freq. (MHz)	6 dB Bandwidth (kHz)	6 dB Bandwidth Min.Limit (kHz)
		Ant-0	
802.11b	2412	8110	≥ 500
802.11b	2437	8098	≥ 500
802.11b	2462	8075	≥ 500
802.11g	2412	15950	≥ 500
802.11g	2437	16070	≥ 500
802.11g	2457	15810	≥ 500
802.11g	2462	15760	≥ 500
802.11n HT20	2412	16910	≥ 500
802.11n HT20	2437	17180	≥ 500
802.11n HT20	2457	16570	≥ 500
802.11n HT20	2462	16370	≥ 500
802.11n HT40	2422	35970	≥ 500
802.11n HT40	2437	35750	≥ 500
802.11n HT40	2452	35780	≥ 500
802.11ax HE20	2412	18500	≥ 500
802.11ax HE20	2437	18570	≥ 500
802.11ax HE20	2457	18520	≥ 500
802.11ax HE20	2462	17880	≥ 500
802.11ax HE40	2422	37970	≥ 500
802.11ax HE40	2437	37600	≥ 500
802.11ax HE40	2452	37940	≥ 500
802.11ax HE20 (26RU0)	2412	17140	≥ 500
802.11ax HE20 (26RU8)	2462	17030	≥ 500
802.11ax HE20 (52RU74)	2412	17680	≥ 500
802.11ax HE20 (52RU77)	2462	17110	≥ 500
802.11ax HE20 (106RU106)	2412	18140	≥ 500
802.11ax HE20 (106RU107)	2462	18310	≥ 500

99 % Occupied BW		
Mode	Freq. (MHz)	99 % Occupied BW (MHz)
		Ant-0
802.11b	2412	12.868
802.11b	2437	12.992
802.11b	2462	12.975
802.11g	2412	16.423
802.11g	2437	16.469
802.11g	2457	16.393
802.11g	2462	16.395
802.11n HT20	2412	17.621
802.11n HT20	2437	17.640
802.11n HT20	2457	17.580
802.11n HT20	2462	17.559
802.11n HT40	2422	36.135
802.11n HT40	2437	36.170
802.11n HT40	2452	36.217
802.11ax HE20	2412	18.935
802.11ax HE20	2437	18.973
802.11ax HE20	2457	18.934
802.11ax HE20	2462	18.909
802.11ax HE40	2422	37.755
802.11ax HE40	2437	37.882
802.11ax HE40	2452	37.843
802.11ax HE20 (26RU0)	2412	19.048
802.11ax HE20 (26RU8)	2462	18.744
802.11ax HE20 (52RU74)	2412	18.487
802.11ax HE20 (52RU77)	2462	18.431
802.11ax HE20 (106RU106)	2412	18.448
802.11ax HE20 (106RU107)	2462	18.421

Maximum Power Spectral Density Measurement				
Mode	Freq. (MHz)		Measurement (dBm/3 kHz)	Max.Limit (dBm/ 3 kHz)
			Ant-0	Ant-0
802.11b	2412		-3.37	8.00
802.11b	2437		-3.17	8.00
802.11b	2462		-3.05	8.00
802.11g	2412		-7.24	8.00
802.11g	2437		-5.06	8.00
802.11g	2457		-6.22	8.00
802.11g	2462		-8.19	8.00
802.11n HT20	2412		-5.50	8.00
802.11n HT20	2437		-4.45	8.00
802.11n HT20	2457		-5.61	8.00
802.11n HT20	2462		-8.08	8.00
802.11n HT40	2422		-10.61	8.00
802.11n HT40	2437		-10.36	8.00
802.11n HT40	2452		-9.79	8.00
802.11ax HE20	2412		-7.66	8.00
802.11ax HE20	2437		-6.97	8.00
802.11ax HE20	2457		-7.64	8.00
802.11ax HE20	2462		-8.83	8.00
802.11ax HE40	2422		-12.12	8.00
802.11ax HE40	2437		-11.06	8.00
802.11ax HE40	2452		-10.39	8.00
Mode	Freq. (MHz)	Single-RU	Measurement (dBm/3 kHz)	Max.Limit (dBm/ 3 kHz)
			Ant-0	Ant-0
802.11ax HE20	2412	26	-4.96	8.00
802.11ax HE20	2462	26	-5.63	8.00
802.11ax HE20	2412	52	-6.48	8.00
802.11ax HE20	2462	52	-7.36	8.00
802.11ax HE20	2412	106	-12.55	8.00
802.11ax HE20	2462	106	-8.71	8.00