

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	2.105	2.110	99.763	0.010	0.010
802.11n HT20	2412	0.711	0.720	98.750	0.055	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

2.4 GHz Band					
Mode	Channel	Freq. (MHz)	RF power setting in Test SW		Test SW Version
			Ant-10	Ant-9	
802.11b	1	2412	19.00	19.00	DRTU 4.0.209.0
802.11b	6	2437	19.00	19.00	
802.11b	11	2462	19.00	19.00	
802.11g	1	2412	16.00	16.00	
802.11g	6	2437	17.50	17.50	
802.11g	11	2462	15.50	15.50	
802.11n HT20	1	2412	15.50	15.50	
802.11n HT20	6	2437	17.00	17.00	
802.11n HT20	11	2462	15.00	15.00	
802.11n HT40	3	2422	14.00	14.00	
802.11n HT40	6	2437	15.50	15.50	
802.11n HT40	9	2452	12.50	12.50	
802.11ax HE20	1	2412	13.50	13.50	
802.11ax HE20	6	2437	13.50	13.50	
802.11ax HE20	11	2462	13.50	13.50	
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	

Mode	Channel	Freq. (MHz)	Single RU	RF power setting in Test SW		Test SW Version
				Ant-10	Ant-9	
802.11ax HE20	1	2412	26	4.00	4.00	DRTU 4.0.209.0
802.11ax HE20	11	2462	26	5.50	5.50	
802.11ax HE20	1	2412	52	6.50	6.50	
802.11ax HE20	11	2462	52	8.00	8.00	
802.11ax HE20	1	2412	106	9.00	9.00	
802.11ax HE20	11	2462	106	10.50	10.50	

2.4 GHz Band									
Mode	CH	Freq. (MHz)	Data Rate	Avg Conducted Power (dBm)			Conducted Power Limit (dBm)		
				Ant-10	Ant-9	SUM	Ant-10	Ant-9	SUM
802.11b	1	2412	1M	18.68	19.09	21.90	30.00	30.00	30.00
802.11b	6	2437	1M	19.36	19.31	22.35	30.00	30.00	30.00
802.11b	11	2462	1M	19.26	18.85	22.07	30.00	30.00	30.00
802.11g	1	2412	6M	16.03	16.05	19.05	30.00	30.00	30.00
802.11g	6	2437	6M	17.50	17.26	20.39	30.00	30.00	30.00
802.11g	11	2462	6M	15.65	15.55	18.61	30.00	30.00	30.00
802.11n HT20	1	2412	MCS0	15.29	15.11	18.21	30.00	30.00	30.00
802.11n HT20	6	2437	MCS0	16.77	16.59	19.69	30.00	30.00	30.00
802.11n HT20	11	2462	MCS0	14.95	14.75	17.86	30.00	30.00	30.00
802.11n HT40	3	2422	MCS0	14.22	14.12	17.18	30.00	30.00	30.00
802.11n HT40	6	2437	MCS0	15.49	15.35	18.43	30.00	30.00	30.00
802.11n HT40	9	2452	MCS0	12.96	13.08	16.03	30.00	30.00	30.00
802.11ax HE20	1	2412	MCS0	13.48	13.48	16.49	30.00	30.00	30.00
802.11ax HE20	6	2437	MCS0	13.24	13.42	16.34	30.00	30.00	30.00
802.11ax HE20	11	2462	MCS0	13.51	13.37	16.45	30.00	30.00	30.00
802.11ax HE40	3	2422	MCS0	10.41	10.89	13.67	30.00	30.00	30.00
802.11ax HE40	6	2437	MCS0	10.73	10.62	13.69	30.00	30.00	30.00
802.11ax HE40	9	2452	MCS0	10.94	10.99	13.98	30.00	30.00	30.00

2.4 GHz Band										
Mode	CH	Freq. (MHz)	Single RU	Data Rate	Avg Conducted Power (dBm)			Conducted Power Limit (dBm)		
					Ant-10	Ant-9	SUM	Ant-10	Ant-9	SUM
802.11ax HE20	1	2412	26	MCS0	3.86	4.34	7.12	30.00	30.00	30.00
802.11ax HE20	11	2462	26	MCS0	4.34	5.53	7.99	30.00	30.00	30.00
802.11ax HE20	1	2412	52	MCS0	6.11	6.63	9.39	30.00	30.00	30.00
802.11ax HE20	11	2462	52	MCS0	6.98	7.82	10.43	30.00	30.00	30.00
802.11ax HE20	1	2412	106	MCS0	8.82	8.97	11.91	30.00	30.00	30.00
802.11ax HE20	11	2462	106	MCS0	9.51	10.21	12.88	30.00	30.00	30.00

6 dB Bandwidth				
Mode	Freq. (MHz)	6 dB Bandwidth (kHz)		6 dB Bandwidth Min.Limit (kHz)
		Ant-10	Ant-9	
802.11b	2412	8130	8567	≥ 500
802.11b	2437	8147	8619	≥ 500
802.11b	2462	9084	8098	≥ 500
802.11g	2412	16250	16380	≥ 500
802.11g	2437	16350	16330	≥ 500
802.11g	2462	15760	16310	≥ 500
802.11n HT20	2412	16520	16540	≥ 500
802.11n HT20	2437	16530	16500	≥ 500
802.11n HT20	2462	16480	16510	≥ 500
802.11n HT40	2422	35340	35770	≥ 500
802.11n HT40	2437	36380	36380	≥ 500
802.11n HT40	2452	35490	36030	≥ 500
802.11ax HE20	2412	18730	18660	≥ 500
802.11ax HE20	2437	18800	18220	≥ 500
802.11ax HE20	2462	18360	18410	≥ 500
802.11ax HE40	2422	36470	37140	≥ 500
802.11ax HE40	2437	38060	37290	≥ 500
802.11ax HE40	2452	36710	37530	≥ 500

99 % Occupied BW			
Mode	Freq. (MHz)	99 % Occupied BW (MHz)	
		Ant-10	Ant-9
802.11b	2412	14.347	14.121
802.11b	2437	14.903	14.919
802.11b	2462	14.731	14.144
802.11g	2412	16.835	16.785
802.11g	2437	20.163	18.661
802.11g	2462	16.713	16.574
802.11n HT20	2412	16.991	17.080
802.11n HT20	2437	19.308	18.022
802.11n HT20	2462	16.850	16.836
802.11n HT40	2422	36.186	36.246
802.11n HT40	2437	36.847	36.379
802.11n HT40	2452	36.122	36.232
802.11ax HE20	2412	18.985	18.995
802.11ax HE20	2437	19.050	18.980
802.11ax HE20	2462	18.986	18.916
802.11ax HE40	2422	37.787	37.779
802.11ax HE40	2437	38.096	37.886
802.11ax HE40	2452	37.767	37.877

Maximum Power Spectral Density Measurement							
Mode	Freq. (MHz)	Measurement (dBm/3 kHz)			Max.Limit (dBm/ 3 kHz)		
		Ant-10	Ant-9	SUM	Ant-10	Ant-9	SUM
802.11b	2412	-4.77	-5.00	-1.87	8.00	8.00	8.00
802.11b	2437	-5.52	-5.38	-2.44	8.00	8.00	8.00
802.11b	2462	-4.35	-5.45	-1.85	8.00	8.00	8.00
802.11g	2412	-9.14	-9.43	-6.27	8.00	8.00	8.00
802.11g	2437	-7.95	-7.89	-4.91	8.00	8.00	8.00
802.11g	2462	-9.26	-9.63	-6.43	8.00	8.00	8.00
802.11n HT20	2412	-10.53	-9.53	-6.99	8.00	8.00	8.00
802.11n HT20	2437	-9.42	-8.24	-5.78	8.00	8.00	8.00
802.11n HT20	2462	-10.49	-10.50	-7.48	8.00	8.00	8.00
802.11n HT40	2422	-13.97	-13.70	-10.82	8.00	8.00	8.00
802.11n HT40	2437	-11.69	-13.41	-9.46	8.00	8.00	8.00
802.11n HT40	2452	-14.61	-14.61	-11.60	8.00	8.00	8.00
802.11ax HE20	2412	-13.67	-13.44	-10.54	8.00	8.00	8.00
802.11ax HE20	2437	-12.44	-13.43	-9.90	8.00	8.00	8.00
802.11ax HE20	2462	-12.51	-12.65	-9.57	8.00	8.00	8.00
802.11ax HE40	2422	-17.66	-18.06	-14.85	8.00	8.00	8.00
802.11ax HE40	2437	-18.29	-18.40	-15.33	8.00	8.00	8.00
802.11ax HE40	2452	-17.75	-17.63	-14.68	8.00	8.00	8.00

Mode	Freq. (MHz)	Single-RU	Measurement (dBm/3 kHz)			Max.Limit (dBm/ 3 kHz)		
			Ant-10	Ant-9	SUM	Ant-10	Ant-9	SUM
802.11ax HE20	2412	26	-13.81	-13.70	-10.74	8.00	8.00	8.00
802.11ax HE20	2462	26	-13.46	-12.32	-9.84	8.00	8.00	8.00
802.11ax HE20	2412	52	-13.87	-13.60	-10.72	8.00	8.00	8.00
802.11ax HE20	2462	52	-13.05	-12.96	-9.99	8.00	8.00	8.00
802.11ax HE20	2412	106	-13.92	-13.60	-10.75	8.00	8.00	8.00
802.11ax HE20	2462	106	-13.33	-12.43	-9.85	8.00	8.00	8.00