

Appendix A: Test Data

SISO

Duty cycle

Band	Frequency (MHz)	On time (ms)	On+off time (ms)	Duty cycle (%)	Duty Factor	1/T Minimum VBW
802.11b	2412	30.000	30.000	1.000	0.000	0.010
802.11g	2412	2.042	2.072	0.986	0.063	0.010
802.11n HT20	2412	1.906	1.936	0.985	0.068	0.010
802.11n HT40	2422	0.940	0.960	0.979	0.091	1.064

Mod.	Freq. (MHz)	Data Rate	RF power setting in Test SW		Test SW Version
			ANT-0	ANT-1	
802.11b	2412	1M	21.00	21.00	Atheros Radio Test 2 (ART2-GUI) Version 2.3
802.11b	2437	1M	26.00	26.00	
802.11b	2462	1M	22.50	22.50	
802.11g	2412	6M	14.50	14.50	
802.11g	2437	6M	26.00	26.00	
802.11g	2462	6M	16.00	16.00	
802.11n HT20	2412	6.5M	13.50	13.50	
802.11n HT20	2437	6.5M	26.00	26.00	
802.11n HT20	2462	6.5M	16.00	16.00	
802.11n HT40	2422	13.5M	10.00	10.00	
802.11n HT40	2437	13.5M	26.00	26.00	
802.11n HT40	2452	13.5M	16.00	16.00	

Mod.	Freq. (MHz)	Data Rate	Avg Conducted Power (dBm)		Peak Conducted Power (dBm)		Conducted Power Limit (dBm)	
			ANT-0	ANT-1	ANT-0	ANT-1	ANT-0	ANT-1
802.11b	2412	1M	19.45	19.72	21.55	22.05	30.00	30.00
802.11b	2437	1M	24.30	24.48	26.17	26.23	30.00	30.00
802.11b	2462	1M	20.23	20.66	22.42	22.85	30.00	30.00
802.11g	2412	6M	13.75	14.10	20.99	21.33	30.00	30.00
802.11g	2437	6M	23.75	23.77	26.96	27.48	30.00	30.00
802.11g	2462	6M	14.70	15.19	22.25	22.66	30.00	30.00
802.11n HT20	2412	6.5M	13.03	13.19	20.26	20.68	30.00	30.00
802.11n HT20	2437	6.5M	23.71	23.82	26.94	27.46	30.00	30.00
802.11n HT20	2462	6.5M	14.76	15.19	22.19	22.42	30.00	30.00
802.11n HT40	2422	13.5M	9.99	10.24	16.68	17.06	30.00	30.00
802.11n HT40	2437	13.5M	23.63	23.88	26.90	27.50	30.00	30.00
802.11n HT40	2452	13.5M	14.15	14.50	21.23	21.76	30.00	30.00

6 dB Bandwidth

Mod.	Freq. (MHz)	6 dB Bandwidth (kHz)	6 dB Bandwidth (kHz)	6 dB Bandwidth Min.Limit (kHz)
		ANT-0	ANT-1	
802.11b	2412	-	10120	≥ 500
802.11b	2437	-	10110	≥ 500
802.11b	2462	-	10140	≥ 500
802.11g	2412	-	16380	≥ 500
802.11g	2437	-	16540	≥ 500
802.11g	2462	-	16450	≥ 500
802.11n HT20	2412	-	17610	≥ 500
802.11n HT20	2437	-	17250	≥ 500
802.11n HT20	2462	-	17630	≥ 500
802.11n HT40	2422	-	36170	≥ 500
802.11n HT40	2437	-	35700	≥ 500
802.11n HT40	2452	-	35820	≥ 500

Maximum Power Spectral Density Measurement

Mod.	Freq. (MHz)	Measurement (dBm/3 kHz)	Max.Limit (dBm/ 3 kHz)	Measurement (dBm/3 kHz)	Max.Limit (dBm/ 3 kHz)
		ANT-0	ANT-0	ANT-1	ANT-1
802.11b	2412	-	-	-0.94	8.00
802.11b	2437	-	-	1.85	8.00
802.11b	2462	-	-	-1.30	8.00
802.11g	2412	-	-	-8.94	8.00
802.11g	2437	-	-	2.09	8.00
802.11g	2462	-	-	-7.40	8.00
802.11n HT20	2412	-	-	-10.37	8.00
802.11n HT20	2437	-	-	-0.18	8.00
802.11n HT20	2462	-	-	-7.17	8.00
802.11n HT40	2422	-	-	-16.92	8.00
802.11n HT40	2437	-	-	-0.58	8.00
802.11n HT40	2452	-	-	-11.16	8.00

MIMO						
Duty cycle						
Band	Frequency (MHz)	On time (ms)	On+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW
802.11n HT20	2412	0.975	1.020	0.956	0.196	1.026
802.11n HT40	2422	0.494	0.526	0.939	0.273	2.024

Mod.	Freq. (MHz)	Data Rate	RF power setting in Test SW		Test SW Version
			ANT-0	ANT-1	
802.11n HT20	2412	13M	11.00	11.00	Atheros Radio Test 2 (ART2-GUI) Version 2.3
802.11n HT20	2437	13M	24.00	24.00	
802.11n HT20	2462	13M	15.00	15.00	
802.11n HT40	2422	27M	7.00	7.00	
802.11n HT40	2437	27M	24.00	24.00	
802.11n HT40	2452	27M	14.00	14.00	

Mod.	Freq. (MHz)	Data Rate	Avg Conducted Power (dBm)			Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		
			ANT-0	ANT-1	SUM	ANT-0	ANT-1	SUM	ANT-0	ANT-1	SUM
802.11n HT20	2412	13M	11.73	12.08	14.92	19.10	19.56	22.35	30.00	30.00	30.00
802.11n HT20	2437	13M	21.89	22.27	25.09	26.66	26.75	29.72	30.00	30.00	30.00
802.11n HT20	2462	13M	14.86	15.15	18.02	22.54	22.67	25.62	30.00	30.00	30.00
802.11n HT40	2422	27M	8.10	8.24	11.18	15.11	15.27	18.20	30.00	30.00	30.00
802.11n HT40	2437	27M	22.09	22.11	25.11	26.60	26.66	29.64	30.00	30.00	30.00
802.11n HT40	2452	27M	13.13	14.05	16.62	20.26	21.21	23.77	30.00	30.00	30.00

6 dB Bandwidth

Mod.	Freq. (MHz)	6 dB Bandwidth (kHz)		6 dB Bandwidth Min.Limit (kHz)
		ANT-0	ANT-1	
802.11n HT20	2412	17640	17650	≥ 500
802.11n HT20	2437	16630	17590	≥ 500
802.11n HT20	2462	17360	17630	≥ 500
802.11n HT40	2422	36080	36420	≥ 500
802.11n HT40	2437	35730	35700	≥ 500
802.11n HT40	2452	36140	36400	≥ 500

Maximum Power Spectral Density Measurement

Mod.	Freq. (MHz)	Measurement (dBm/3 kHz)			Max.Limit (dBm/ 3 kHz)		
		ANT-0	ANT-1	SUM	ANT-0	ANT-1	SUM
802.11n HT20	2412	-13.73	-12.60	-10.12	8.00	8.00	8.00
802.11n HT20	2437	-1.26	0.30	2.60	8.00	8.00	8.00
802.11n HT20	2462	-8.84	-7.96	-5.37	8.00	8.00	8.00
802.11n HT40	2422	-17.75	-19.91	-15.69	8.00	8.00	8.00
802.11n HT40	2437	-3.19	-3.20	-0.18	8.00	8.00	8.00
802.11n HT40	2452	-11.92	-12.94	-9.39	8.00	8.00	8.00