

Appendix A. Test Data

Duty cycle						
Band	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	5180	2.690	3.030	88.779	0.517	0.372
802.11n HT20	5180	2.500	2.850	87.719	0.569	0.400

RF power setting in Test SW

Mode	CH	Frequency (MHz)	Ant-0	Test SW Version
802.11a	36	5180	15	Mform V1 16.1.6
	40	5200	14	
	48	5240	13	
	149	5745	17	
	157	5785	17	
	165	5825	17	
802.11n HT20	36	5180	15	Mform V1 16.1.6
	40	5200	15	
	48	5240	15	
	149	5745	17	
	157	5785	17	
	165	5825	17	
802.11ac VHT20	36	5180	15	Mform V1 16.1.6
	40	5200	15	
	48	5240	15	
	149	5745	17	
	157	5785	17	
	165	5825	17	

RF power setting in Test SW

Mode	CH	Frequency (MHz)		Ant-0	Test SW Version
802.11ax HE20	36	5180	Full	15	Mform V1 16.1.6
	40	5200	Full	15	
	48	5240	Full	15	
	149	5745	Full	17	
	157	5785	Full	17	
	165	5825	Full	17	

Maximum Conducted Output Power Measurement					
Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power	Limit
				Ant-0	
				dBm	
802.11a	6M	36	5180	17.64	24.00
		40	5200	16.53	24.00
		48	5240	15.28	24.00
		149	5745	18.94	30.00
		157	5785	18.99	30.00
		165	5825	19.01	30.00
802.11n HT20	6.5M	36	5180	16.48	24.00
		40	5200	16.52	24.00
		48	5240	16.25	24.00
		149	5745	17.54	30.00
		157	5785	17.60	30.00
		165	5825	17.67	30.00
Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power	Limit
				Ant-0	
				dBm	
802.11ac VHT20	6.5M	36	5180	16.31	24.00
		40	5200	16.32	24.00
		48	5240	16.06	24.00
		149	5745	17.37	30.00
		157	5785	17.53	30.00
		165	5825	17.60	30.00

Band	Date Rate or Sub-test	CH	Freq. (MHz)	RU	Average power	Limit
					Ant-0	
					dBm	dBm
802.11ax HE20	MCS 0	36	5180	Full	16.51	24.00
		40	5200	Full	16.57	24.00
		48	5240	Full	16.33	24.00
		149	5745	Full	17.55	30.00
		157	5785	Full	17.62	30.00
		165	5825	Full	17.68	30.00

26 dB & 99 % RF Bandwidth Measurement				
Band	CH	Freq. (MHz)	99 % Bandwidth	26 dB Bandwidth
			Ant-0	Ant-0
			MHz	MHz
802.11a	36	5180	16.916	20.170
	40	5200	16.928	19.980
	48	5240	16.863	20.280
802.11n HT20	36	5180	17.751	20.660
	40	5200	17.773	20.510
	48	5240	17.755	20.510
Band III_6 dB & 99 % RF Bandwidth Measurement				
Band	CH	Freq. (MHz)	99 % Bandwidth	6 dB Bandwidth
			Ant-0	Ant-0
			MHz	kHz
802.11a	149	5745	17.239	15130
	157	5785	17.231	15330
	165	5825	17.261	14650
802.11n HT20	149	5745	17.933	15140
	157	5785	17.958	15150
	165	5825	17.976	15100

Power Spectral Density Measurement

Band	CH	Frequency (MHz)	Measurement	Duty Factor	Calculated	Limit
			Ant-0		Total	
			dBm/MHz	dB	dBm/MHz	dBm/MHz
802.11a	36	5180	6.381	0.517	6.898	11.000
	40	5200	5.336	0.517	5.853	11.000
	48	5240	4.010	0.517	4.527	11.000
802.11n HT20	36	5180	4.922	0.569	5.491	11.000
	40	5200	4.971	0.569	5.540	11.000
	48	5240	5.130	0.569	5.699	11.000

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.

Band III_ Power Spectral Density Measurement						
Band	CH	Frequency (MHz)	Measurement		Limit	PASS/FAIL
			Ant-0			
			dBm/100 kHz	dBm/500 kHz	dBm/500 kHz	
802.11a	149	5745	-0.722	6.785	30.00	PASS
	157	5785	-0.228	7.278	30.00	PASS
	165	5825	-1.017	6.490	30.00	PASS
802.11n HT20	149	5745	-1.839	5.720	30.00	PASS
	157	5785	-1.689	5.870	30.00	PASS
	165	5825	-2.709	4.850	30.00	PASS

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.
 Conversion ratio = 10*Log(500 k/100 k)