

Appendix A - Conducted Power Measurements

● Notebook Mode Conducted Power

WLAN 2.4 GHz								
Mode	Channel	Frequency (MHz)	Main			Aux		
			Peak power (dBm)	Average power (dBm)	Tune-Up Limit	Peak power (dBm)	Average power (dBm)	Tune-Up Limit
802.11b	1	2412	19.06	16.21	16.50	18.91	16.35	16.50
	6	2437	18.98	16.26	16.50	18.73	16.33	16.50
	11	2462	18.61	16.34	16.50	18.85	16.38	16.50
	12	2467	17.77	15.34	15.50	17.81	15.40	15.50
	13	2472	11.33	8.85	9.00	11.46	8.98	9.00
802.11g	1	2412	23.79	16.33	16.50	23.85	16.49	16.50
	6	2437	23.76	16.44	16.50	23.74	16.19	16.50
	11	2462	23.86	16.48	16.50	23.96	16.23	16.50
	12	2467	21.04	11.79	12.00	20.74	11.96	12.00
	13	2472	14.88	6.58	7.00	16.12	6.92	7.00
802.11ac VHT20	1	2412	23.88	16.23	16.50	23.87	16.41	16.50
	6	2437	23.81	16.37	16.50	23.79	16.16	16.50
	11	2462	23.67	15.95	16.50	23.83	16.39	16.50
	12	2467	18.52	9.67	10.00	19.17	9.66	10.00
	13	2472	12.39	5.41	5.50	14.67	5.37	5.50
802.11ac VHT40	3	2422	23.27	14.85	15.00	23.61	14.97	15.00
	6	2437	23.55	15.33	15.50	23.64	15.48	15.50
	9	2452	23.11	14.97	15.00	23.50	14.85	15.00
	10	2457	16.72	8.35	8.50	17.28	8.22	8.50
	11	2462	15.49	6.42	6.50	15.27	6.36	6.50
802.11ax HE20	1	2412	23.81	16.27	16.50	23.79	16.05	16.50
	6	2437	23.83	16.48	16.50	23.89	16.27	16.50
	11	2462	23.72	16.36	16.50	23.82	16.47	16.50
	12	2467	18.96	10.28	10.50	19.43	10.39	10.50
	13	2472	12.73	5.56	6.00	14.64	5.99	6.00
802.11ax HE40	3	2422	23.44	14.97	15.00	23.52	14.67	15.00
	6	2437	23.67	15.92	16.00	23.73	15.77	16.00
	9	2452	23.35	14.62	15.00	23.55	14.77	15.00
	10	2457	16.87	8.48	8.50	17.35	8.42	8.50
	11	2462	15.56	6.08	6.50	15.14	6.47	6.50

WLAN 2.4 GHz					
Mode	Channel	Frequency (MHz)	MIMO		
			Peak power (dBm)	Average power (dBm)	Tune-Up Limit
802.11b	1	2412	22.00	19.24	19.50
	6	2437	21.87	19.25	19.50
	11	2462	21.74	19.32	19.50
	12	2467	20.80	18.34	18.50
	13	2472	14.41	11.89	12.00
802.11g	1	2412	26.83	19.35	19.50
	6	2437	26.76	19.27	19.50
	11	2462	26.92	19.30	19.50
	12	2467	23.90	14.84	15.00
	13	2472	18.55	9.74	10.00
802.11ac VHT20	1	2412	26.89	19.27	19.50
	6	2437	26.81	19.21	19.50
	11	2462	26.76	19.12	19.50
	12	2467	21.87	12.64	13.00
	13	2472	16.69	8.38	8.50
802.11ac VHT40	3	2422	26.45	17.87	18.00
	6	2437	26.61	18.36	18.50
	9	2452	26.32	17.87	18.00
	10	2457	20.02	11.27	11.50
	11	2462	18.39	9.38	9.50
802.11ax HE20	1	2412	26.81	19.13	19.50
	6	2437	26.87	19.31	19.50
	11	2462	26.78	19.38	19.50
	12	2467	22.21	13.30	13.50
	13	2472	16.80	8.77	9.00
802.11ax HE40	3	2422	26.49	17.77	18.00
	6	2437	26.71	18.81	19.00
	9	2452	26.46	17.65	18.00
	10	2457	20.13	11.44	11.50
	11	2462	18.37	9.27	9.50

Note:

1. As per FCC OET KDB 248227 D01, conducted output power and SAR testing are not required for 802.11g/n20/n40/ax channels when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2\text{W/kg}$.
2. When the reported SAR of the initial test configuration is $> 0.8\text{ W/kg}$, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until reported SAR is $\leq 1.2\text{ W/kg}$ or all required channels are tested.

U-NII-1						
Mode	Channel	Frequency (MHz)	Main		Aux	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit
802.11a	36	5180	13.73	14.00	13.98	14.00
	40	5200	13.79	14.00	13.79	14.00
	44	5220	13.98	14.00	13.97	14.00
	48	5240	13.94	14.00	13.94	14.00
802.11n HT20	36	5180	13.72	14.00	13.98	14.00
	40	5200	13.75	14.00	13.79	14.00
	44	5220	13.94	14.00	13.97	14.00
	48	5240	13.96	14.00	13.99	14.00
802.11n HT40	38	5190	13.92	14.00	13.92	14.00
	46	5230	13.76	14.00	13.83	14.00
802.11ac VHT20	36	5180	13.62	14.00	13.91	14.00
	40	5200	13.68	14.00	13.76	14.00
	44	5220	13.89	14.00	13.87	14.00
	48	5240	13.90	14.00	13.98	14.00
802.11ac VHT40	38	5190	13.86	14.00	13.91	14.00
	46	5230	13.70	14.00	13.81	14.00
802.11ac VHT80	42	5210	13.92	14.00	13.98	14.00
802.11ax HE20	36	5180	13.62	14.00	13.93	14.00
	40	5200	13.74	14.00	13.70	14.00
	44	5220	13.92	14.00	13.91	14.00
	48	5240	13.86	14.00	13.89	14.00
802.11ax HE40	38	5190	13.84	14.00	13.82	14.00
	46	5230	13.70	14.00	13.73	14.00
802.11ax HE80	42	5210	13.84	14.00	13.89	14.00

U-NII-1				
Mode	Channel	Frequency (MHz)	MIMO	
			Average power (dBm)	Tune-Up Limit
802.11a	36	5180	16.82	17.00
	40	5200	16.76	17.00
	44	5220	16.94	17.00
	48	5240	16.89	17.00
802.11n HT20	36	5180	16.82	17.00
	40	5200	16.75	17.00
	44	5220	16.91	17.00
	48	5240	16.92	17.00
802.11n HT40	38	5190	16.87	17.00
	46	5230	16.74	17.00
802.11ac VHT20	36	5180	16.74	17.00
	40	5200	16.68	17.00
	44	5220	16.83	17.00
	48	5240	16.91	17.00
802.11ac VHT40	38	5190	16.84	17.00
	46	5230	16.71	17.00
802.11ac VHT80	42	5210	16.85	17.00
802.11ax HE20	36	5180	16.74	17.00
	40	5200	16.68	17.00
	44	5220	16.87	17.00
	48	5240	16.84	17.00
802.11ax HE40	38	5190	16.81	17.00
	46	5230	16.69	17.00
802.11ax HE80	42	5210	16.83	17.00

U-NII-2A						
Mode	Channel	Frequency (MHz)	Main		Aux	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit
802.11a	52	5260	13.86	14.00	13.97	14.00
	56	5280	13.92	14.00	13.94	14.00
	60	5300	13.93	14.00	13.82	14.00
	64	5320	13.89	14.00	13.90	14.00
802.11n HT20	52	5260	13.76	14.00	13.92	14.00
	56	5280	13.87	14.00	13.98	14.00
	60	5300	13.84	14.00	13.87	14.00
	64	5320	13.89	14.00	13.79	14.00
802.11n HT40	54	5270	13.60	14.00	13.73	14.00
	62	5310	13.63	14.00	13.79	14.00
802.11ac VHT20	52	5260	13.74	14.00	13.92	14.00
	56	5280	13.85	14.00	13.92	14.00
	60	5300	13.76	14.00	13.84	14.00
	64	5320	13.87	14.00	13.76	14.00
802.11ac VHT40	54	5270	13.52	14.00	13.69	14.00
	62	5310	13.59	14.00	13.59	14.00
802.11ac VHT80	58	5290	13.80	14.00	13.93	14.00
802.11ax HE20	52	5260	13.71	14.00	13.90	14.00
	56	5280	13.79	14.00	13.94	14.00
	60	5300	13.79	14.00	13.81	14.00
	64	5320	13.88	14.00	13.73	14.00
802.11ax HE40	54	5270	13.58	14.00	13.70	14.00
	62	5310	13.57	14.00	13.57	14.00
802.11ax HE80	58	5290	13.74	14.00	13.87	14.00

U-NII-2A				
Mode	Channel	Frequency (MHz)	MIMO	
			Average power (dBm) MIMO	Tune-Up Limit
802.11a	52	5260	16.89	17.00
	56	5280	16.89	17.00
	60	5300	16.83	17.00
	64	5320	16.84	17.00
802.11n HT20	52	5260	16.81	17.00
	56	5280	16.89	17.00
	60	5300	16.81	17.00
	64	5320	16.81	17.00
802.11n HT40	54	5270	16.62	17.00
	62	5310	16.67	17.00
802.11ac VHT20	52	5260	16.80	17.00
	56	5280	16.84	17.00
	60	5300	16.77	17.00
	64	5320	16.77	17.00
802.11ac VHT40	54	5270	16.58	17.00
	62	5310	16.55	17.00
802.11ac VHT80	58	5290	16.82	17.00
802.11ax HE20	52	5260	16.76	17.00
	56	5280	16.81	17.00
	60	5300	16.77	17.00
	64	5320	16.78	17.00
802.11ax HE40	54	5270	16.61	17.00
	62	5310	16.53	17.00
802.11ax HE80	58	5290	16.78	17.00

U-NII-2C						
Mode	Channel	Frequency (MHz)	Main		Aux	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit
802.11a	100	5500	14.75	15.00	14.92	15.00
	116	5580	14.81	15.00	14.88	15.00
	124	5620	14.72	15.00	14.94	15.00
	132	5660	14.78	15.00	14.93	15.00
	140	5700	14.94	15.00	14.74	15.00
	144	5720	14.96	15.00	14.89	15.00
802.11n HT20	100	5500	14.73	15.00	14.95	15.00
	116	5580	14.95	15.00	14.73	15.00
	124	5620	14.83	15.00	14.96	15.00
	132	5660	14.96	15.00	14.98	15.00
	140	5700	14.91	15.00	14.73	15.00
	144	5720	14.69	15.00	14.97	15.00
802.11n HT40	102	5510	14.90	15.00	14.72	15.00
	110	5550	14.81	15.00	14.63	15.00
	126	5630	14.58	15.00	14.69	15.00
	134	5670	14.74	15.00	14.75	15.00
	142	5710	14.93	15.00	14.86	15.00
802.11ac VHT20	100	5500	14.70	15.00	14.92	15.00
	116	5580	14.89	15.00	14.64	15.00
	124	5620	14.73	15.00	14.91	15.00
	132	5660	14.95	15.00	14.90	15.00
	140	5700	14.85	15.00	14.71	15.00
	144	5720	14.61	15.00	14.91	15.00
802.11ac VHT40	102	5510	14.90	15.00	14.65	15.00
	110	5550	14.76	15.00	14.58	15.00
	126	5630	14.53	15.00	14.65	15.00
	134	5670	14.73	15.00	14.73	15.00
	142	5710	14.87	15.00	14.83	15.00
802.11ac VHT80	106	5530	14.49	14.50	14.32	14.50
	122	5610	14.92	15.00	14.72	15.00
	138	5690	14.98	15.00	14.96	15.00
802.11ax HE20	100	5500	14.65	15.00	14.94	15.00
	116	5580	14.86	15.00	14.70	15.00
	124	5620	14.75	15.00	14.90	15.00
	132	5660	14.92	15.00	14.90	15.00
	140	5700	14.83	15.00	14.66	15.00
	144	5720	14.59	15.00	14.88	15.00
802.11ax HE40	102	5510	14.84	15.00	14.67	15.00
	110	5550	14.76	15.00	14.60	15.00
	126	5630	14.48	15.00	14.65	15.00
	134	5670	14.68	15.00	14.68	15.00
	142	5710	14.83	15.00	14.77	15.00
802.11ax HE80	106	5530	14.34	14.50	14.35	14.50
	122	5610	14.85	15.00	14.76	15.00
	138	5690	14.92	15.00	14.87	15.00

U-NII-2C				
Mode	Channel	Frequency (MHz)	MIMO	
			Average power (dBm) MIMO	Tune-Up Limit
802.11a	100	5500	17.80	18.00
	116	5580	17.79	18.00
	124	5620	17.79	18.00
	132	5660	17.81	18.00
	140	5700	17.79	18.00
	144	5720	17.88	18.00
802.11n HT20	100	5500	17.78	18.00
	116	5580	17.80	18.00
	124	5620	17.86	18.00
	132	5660	17.92	18.00
	140	5700	17.77	18.00
	144	5720	17.78	18.00
802.11n HT40	102	5510	17.77	18.00
	110	5550	17.67	18.00
	126	5630	17.59	18.00
	134	5670	17.72	18.00
	142	5710	17.86	18.00
802.11ac VHT20	100	5500	17.76	18.00
	116	5580	17.75	18.00
	124	5620	17.77	18.00
	132	5660	17.90	18.00
	140	5700	17.75	18.00
	144	5720	15.68	16.00
802.11ac VHT40	102	5510	17.73	18.00
	110	5550	17.62	18.00
	126	5630	17.55	18.00
	134	5670	17.70	18.00
	142	5710	12.83	13.00
802.11ac VHT80	106	5530	17.37	17.50
	122	5610	17.77	18.00
	138	5690	15.67	16.00
802.11ax HE20	100	5500	17.75	18.00
	116	5580	17.74	18.00
	124	5620	17.78	18.00
	132	5660	17.86	18.00
	140	5700	17.70	18.00
	144	5720	15.78	16.00
802.11ax HE40	102	5510	17.71	18.00
	110	5550	17.62	18.00
	126	5630	17.51	18.00
	134	5670	17.64	18.00
	142	5710	13.13	14.00
802.11ax HE80	106	5530	17.31	17.50
	122	5610	17.77	18.00
	138	5690	14.82	15.00

U-NII-3(5.8 GHz)						
Mode	Channel	Frequency (MHz)	Main		Aux	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit
802.11a	149	5745	15.37	15.50	15.42	15.50
	157	5785	15.49	15.50	15.49	15.50
	165	5825	15.43	15.50	15.24	15.50
802.11n HT20	149	5745	15.33	15.50	15.39	15.50
	157	5785	15.48	15.50	15.48	15.50
	165	5825	15.39	15.50	15.46	15.50
802.11n HT40	151	5755	15.44	15.50	15.43	15.50
	159	5795	15.26	15.50	15.17	15.50
802.11ac VHT20	149	5745	15.28	15.50	15.36	15.50
	157	5785	15.38	15.50	15.47	15.50
	165	5825	15.38	15.50	15.43	15.50
802.11ac VHT40	151	5755	15.34	15.50	15.43	15.50
	159	5795	15.16	15.50	15.12	15.50
802.11ac VHT80	155	5775	15.46	15.50	15.49	15.50
802.11ax HE20	149	5745	15.33	15.50	15.29	15.50
	157	5785	15.48	15.50	15.44	15.50
	165	5825	15.37	15.50	15.44	15.50
802.11ax HE40	151	5755	15.40	15.50	15.38	15.50
	159	5795	15.18	15.50	15.17	15.50
802.11ax HE80	155	5775	14.41	15.50	15.41	15.50

U-NII-3(5.8 GHz)				
Mode	Channel	Frequency (MHz)	MIMO	
			Average power (dBm) MIMO	Tune-Up Limit
802.11a	149	5745	18.37	18.50
	157	5785	18.45	18.50
	165	5825	18.28	18.50
802.11n HT20	149	5745	18.31	18.50
	157	5785	18.46	18.50
	165	5825	18.37	18.50
802.11n HT40	151	5755	18.40	18.50
	159	5795	18.18	18.50
802.11ac VHT20	149	5745	18.27	18.50
	157	5785	18.38	18.50
	165	5825	18.37	18.50
802.11ac VHT40	151	5755	18.34	18.50
	159	5795	18.09	18.50
802.11ac VHT80	155	5775	18.42	18.50
802.11ax HE20	149	5745	18.27	18.50
	157	5785	18.40	18.50
	165	5825	18.38	18.50
802.11ax HE40	151	5755	18.35	18.50
	159	5795	18.13	18.50
802.11ax HE80	155	5775	17.90	18.50

Note:

Additional conducted power measurement is required when reported SAR is $> 1.2\text{W/kg}$. In case the subsequent test configuration and the channel bandwidth is smaller than the initial test configuration, all channels that overlap with the larger channel bandwidth in the initial configuration should be tested.

1. The initial test configuration for 2.4 GHz and 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple transmission modes (802.11a/g/n/ac/ax) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, lowest order 802.11 mode is selected (i.e. a, g, n, ac then ax)
2. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure requirements, is adjusted by the ratio of the subsequent test configuration to the initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/Kg}$, SAR is not required for that subsequent test configuration.

● Tablet Mode Conducted Power

WLAN 2.4 GHz								
Mode	Channel	Frequency (MHz)	Main			Aux		
			Peak power (dBm)	Average power (dBm)	Tune-Up Limit	Peak power (dBm)	Average power (dBm)	Tune-Up Limit
802.11b	1	2412	16.05	13.48	13.50	16.37	13.39	13.50
	6	2437	16.12	13.46	13.50	16.34	13.29	13.50
	11	2462	15.79	13.41	13.50	16.43	13.42	13.50
	12	2467	15.77	13.31	13.50	16.38	13.25	13.50
	13	2472	11.26	8.85	9.00	11.77	8.98	9.00
802.11g	1	2412	21.65	13.22	13.50	22.86	13.31	13.50
	6	2437	20.97	13.11	13.50	21.70	13.42	13.50
	11	2462	21.02	13.45	13.50	21.69	13.47	13.50
	12	2467	21.13	11.79	12.00	20.67	11.96	12.00
	13	2472	14.62	6.58	7.00	16.35	6.92	7.00
802.11ac VHT20	1	2412	21.96	13.06	13.50	22.77	13.19	13.50
	6	2437	21.10	13.05	13.50	21.75	13.28	13.50
	11	2462	20.96	13.38	13.50	21.45	13.42	13.50
	12	2467	18.07	9.67	10.00	19.02	9.66	10.00
	13	2472	12.37	5.41	5.50	13.72	5.37	5.50
802.11ac VHT40	3	2422	22.97	13.16	13.50	23.12	13.01	13.50
	6	2437	22.93	13.23	13.50	23.29	13.26	13.50
	9	2452	22.88	13.31	13.50	23.25	13.41	13.50
	10	2457	16.24	8.35	8.50	17.02	8.22	8.50
	11	2462	15.67	6.42	6.50	15.35	6.36	6.50
802.11ax HE20	1	2412	22.40	13.24	13.50	22.97	13.07	13.50
	6	2437	21.26	13.39	13.50	21.45	13.43	13.50
	11	2462	21.34	13.48	13.50	21.58	13.26	13.50
	12	2467	18.92	10.28	10.50	18.97	10.39	10.50
	13	2472	13.09	5.56	6.00	15.52	5.99	6.00
802.11ax HE40	3	2422	22.54	13.35	13.50	23.13	13.44	13.50
	6	2437	22.61	13.41	13.50	22.97	13.45	13.50
	9	2452	22.48	13.26	13.50	23.10	13.48	13.50
	10	2457	16.96	8.48	8.50	17.34	8.42	8.50
	11	2462	15.54	6.08	6.50	15.68	6.47	6.50

WLAN 2.4 GHz					
Mode	Channel	Frequency (MHz)	MIMO		
			Peak power (dBm)	Average power (dBm)	Tune-Up Limit
802.11b	1	2412	19.22	16.35	16.50
	6	2437	19.24	16.29	16.50
	11	2462	19.13	16.33	16.50
	12	2467	19.10	16.20	16.50
	13	2472	14.53	11.83	12.00
802.11g	1	2412	25.31	16.18	16.50
	6	2437	24.36	16.18	16.50
	11	2462	24.38	16.37	16.50
	12	2467	23.92	14.79	15.00
	13	2472	18.58	9.67	10.00
802.11ac VHT20	1	2412	25.39	16.04	16.50
	6	2437	24.45	16.08	16.50
	11	2462	24.22	16.32	16.50
	12	2467	21.58	12.58	13.00
	13	2472	16.11	8.31	8.50
802.11ac VHT40	3	2422	26.06	16.00	16.50
	6	2437	26.12	16.16	16.50
	9	2452	26.08	16.28	16.50
	10	2457	19.66	11.20	11.50
	11	2462	18.52	9.31	9.50
802.11ax HE20	1	2412	25.70	16.07	16.50
	6	2437	24.37	16.33	16.50
	11	2462	24.47	16.29	16.50
	12	2467	21.96	13.25	13.50
	13	2472	17.48	8.70	9.00
802.11ax HE40	3	2422	25.86	16.31	16.50
	6	2437	25.80	16.35	16.50
	9	2452	25.81	16.29	16.50
	10	2457	20.16	11.37	11.50
	11	2462	18.62	9.20	9.50

Note:

- As per FCC OET KDB 248227 D01, conducted output power and SAR testing are not required for 802.11g/n20/n40/ax channels when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2\text{W/kg}$.
- When the reported SAR of the initial test configuration is $> 0.8\text{ W/kg}$, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until reported SAR is $\leq 1.2\text{ W/kg}$ or all required channels are tested.

U-NII-1						
Mode	Channel	Frequency (MHz)	Main		Aux	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit
802.11a	36	5180	9.92	10.00	9.76	10.00
	40	5200	9.95	10.00	9.81	10.00
	44	5220	9.98	10.00	9.92	10.00
	48	5240	9.95	10.00	9.98	10.00
802.11n HT20	36	5180	9.72	10.00	9.89	10.00
	40	5200	9.77	10.00	9.96	10.00
	44	5220	9.91	10.00	9.81	10.00
	48	5240	9.87	10.00	9.96	10.00
802.11n HT40	38	5190	9.71	10.00	9.81	10.00
	46	5230	9.98	10.00	9.73	10.00
802.11ac VHT20	36	5180	9.79	10.00	9.81	10.00
	40	5200	9.82	10.00	9.91	10.00
	44	5220	9.94	10.00	9.71	10.00
	48	5240	9.86	10.00	9.93	10.00
802.11ac VHT40	38	5190	9.79	10.00	9.72	10.00
	46	5230	9.92	10.00	9.72	10.00
802.11ac VHT80	42	5210	9.93	10.00	9.91	10.00
802.11ax HE20	36	5180	9.74	10.00	9.89	10.00
	40	5200	9.81	10.00	9.91	10.00
	44	5220	9.88	10.00	9.79	10.00
	48	5240	9.91	10.00	9.93	10.00
802.11ax HE40	38	5190	9.76	10.00	9.71	10.00
	46	5230	9.85	10.00	9.66	10.00
802.11ax HE80	42	5210	9.86	10.00	9.87	10.00

U-NII-1				
Mode	Channel	Frequency (MHz)	MIMO	
			Average power (dBm)	Tune-Up Limit
802.11a	36	5180	12.76	13.00
	40	5200	12.80	13.00
	44	5220	12.87	13.00
	48	5240	12.88	13.00
802.11n HT20	36	5180	12.72	13.00
	40	5200	12.78	13.00
	44	5220	12.77	13.00
	48	5240	12.83	13.00
802.11n HT40	38	5190	12.67	13.00
	46	5230	12.77	13.00
802.11ac VHT20	36	5180	12.72	13.00
	40	5200	12.78	13.00
	44	5220	12.74	13.00
	48	5240	12.81	13.00
802.11ac VHT40	38	5190	12.67	13.00
	46	5230	12.74	13.00
802.11ac VHT80	42	5210	12.83	13.00
802.11ax HE20	36	5180	12.73	13.00
	40	5200	12.77	13.00
	44	5220	12.75	13.00
	48	5240	12.83	13.00
802.11ax HE40	38	5190	12.65	13.00
	46	5230	12.67	13.00
802.11ax HE80	42	5210	12.78	13.00

U-NII-2A						
Mode	Channel	Frequency (MHz)	Main		Aux	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit
802.11a	52	5260	9.89	10.00	9.97	10.00
	56	5280	9.91	10.00	9.98	10.00
	60	5300	9.85	10.00	9.84	10.00
	64	5320	9.82	10.00	9.86	10.00
802.11n HT20	52	5260	9.79	10.00	9.97	10.00
	56	5280	9.82	10.00	9.79	10.00
	60	5300	9.76	10.00	9.77	10.00
	64	5320	9.83	10.00	9.78	10.00
802.11n HT40	54	5270	9.87	10.00	9.94	10.00
	62	5310	9.91	10.00	9.97	10.00
802.11ac VHT20	52	5260	9.83	10.00	9.95	10.00
	56	5280	9.85	10.00	9.75	10.00
	60	5300	9.79	10.00	9.68	10.00
	64	5320	9.88	10.00	9.71	10.00
802.11ac VHT40	54	5270	9.81	10.00	9.87	10.00
	62	5310	9.84	10.00	9.94	10.00
802.11ac VHT80	58	5290	9.99	10.00	9.93	10.00
802.11ax HE20	52	5260	9.85	10.00	9.89	10.00
	56	5280	9.76	10.00	9.77	10.00
	60	5300	9.83	10.00	9.68	10.00
	64	5320	9.74	10.00	9.71	10.00
802.11ax HE40	54	5270	9.77	10.00	9.92	10.00
	62	5310	9.83	10.00	9.91	10.00
802.11ax HE80	58	5290	9.91	10.00	9.85	10.00

U-NII-2A				
Mode	Channel	Frequency (MHz)	MIMO	
			Average power (dBm) MIMO	Tune-Up Limit
802.11a	52	5260	12.85	13.00
	56	5280	12.86	13.00
	60	5300	12.76	13.00
	64	5320	12.75	13.00
802.11n HT20	52	5260	12.80	13.00
	56	5280	12.72	13.00
	60	5300	12.68	13.00
	64	5320	12.72	13.00
802.11n HT40	54	5270	12.82	13.00
	62	5310	12.85	13.00
802.11ac VHT20	52	5260	12.81	13.00
	56	5280	12.72	13.00
	60	5300	12.65	13.00
	64	5320	12.71	13.00
802.11ac VHT40	54	5270	12.76	13.00
	62	5310	12.81	13.00
802.11ac VHT80	58	5290	12.88	13.00
802.11ax HE20	52	5260	12.79	13.00
	56	5280	12.68	13.00
	60	5300	12.67	13.00
	64	5320	12.64	13.00
802.11ax HE40	54	5270	12.76	13.00
	62	5310	12.79	13.00
802.11ax HE80	58	5290	12.79	13.00

U-NII-2C						
Mode	Channel	Frequency (MHz)	Main		Aux	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit
802.11a	100	5500	10.44	10.50	10.34	10.50
	116	5580	10.45	10.50	10.42	10.50
	124	5620	10.33	10.50	10.41	10.50
	132	5660	10.34	10.50	10.45	10.50
	140	5700	10.41	10.50	10.46	10.50
	144	5720	10.39	10.50	10.44	10.50
802.11n HT20	100	5500	10.48	10.50	10.29	10.50
	116	5580	10.42	10.50	10.48	10.50
	124	5620	10.33	10.50	10.36	10.50
	132	5660	10.48	10.50	10.46	10.50
	140	5700	10.38	10.50	10.23	10.50
	144	5720	10.34	10.50	10.43	10.50
802.11n HT40	102	5510	10.48	10.50	10.37	10.50
	110	5550	10.41	10.50	10.34	10.50
	126	5630	10.35	10.50	10.42	10.50
	134	5670	10.44	10.50	10.46	10.50
	142	5710	10.48	10.50	10.31	10.50
802.11ac VHT20	100	5500	10.45	10.50	10.28	10.50
	116	5580	10.35	10.50	10.44	10.50
	124	5620	10.25	10.50	10.33	10.50
	132	5660	10.44	10.50	10.38	10.50
	140	5700	10.38	10.50	10.22	10.50
	144	5720	10.33	10.50	10.42	10.50
802.11ac VHT40	102	5510	10.40	10.50	10.28	10.50
	110	5550	10.33	10.50	10.26	10.50
	126	5630	10.28	10.50	10.32	10.50
	134	5670	10.34	10.50	10.39	10.50
	142	5710	10.46	10.50	10.21	10.50
802.11ac VHT80	106	5530	10.42	10.50	10.29	10.50
	122	5610	10.29	10.50	10.13	10.50
	138	5690	10.33	10.50	10.33	10.50
802.11ax HE20	100	5500	10.41	10.50	10.28	10.50
	116	5580	10.33	10.50	10.46	10.50
	124	5620	10.22	10.50	10.34	10.50
	132	5660	10.34	10.50	10.40	10.50
	140	5700	10.38	10.50	10.20	10.50
	144	5720	10.31	10.50	10.38	10.50
802.11ax HE40	102	5510	10.31	10.50	10.32	10.50
	110	5550	10.24	10.50	10.24	10.50
	126	5630	10.25	10.50	10.40	10.50
	134	5670	10.25	10.50	10.40	10.50
	142	5710	10.43	10.50	10.26	10.50
802.11ax HE80	106	5530	10.34	10.50	10.24	10.50
	122	5610	10.29	10.50	10.19	10.50
	138	5690	10.32	10.50	10.31	10.50

U-NII-2C				
Mode	Channel	Frequency (MHz)	MIMO	
			Average power (dBm) MIMO	Tune-Up Limit
802.11a	100	5500	13.31	13.50
	116	5580	13.35	13.50
	124	5620	13.29	13.50
	132	5660	13.31	13.50
	140	5700	13.35	13.50
	144	5720	13.33	13.50
802.11n HT20	100	5500	13.30	13.50
	116	5580	13.37	13.50
	124	5620	13.26	13.50
	132	5660	13.39	13.50
	140	5700	13.22	13.50
	144	5720	13.30	13.50
802.11n HT40	102	5510	13.34	13.50
	110	5550	13.29	13.50
	126	5630	13.30	13.50
	134	5670	13.37	13.50
	142	5710	13.31	13.50
802.11ac VHT20	100	5500	13.28	13.50
	116	5580	13.31	13.50
	124	5620	13.21	13.50
	132	5660	13.33	13.50
	140	5700	13.22	13.50
	144	5720	13.29	13.50
802.11ac VHT40	102	5510	13.26	13.50
	110	5550	13.21	13.50
	126	5630	13.22	13.50
	134	5670	13.28	13.50
	142	5710	12.85	13.50
802.11ac VHT80	106	5530	13.27	13.50
	122	5610	13.13	13.50
	138	5690	13.25	13.50
802.11ax HE20	100	5500	13.26	13.50
	116	5580	13.31	13.50
	124	5620	13.19	13.50
	132	5660	13.28	13.50
	140	5700	13.21	13.50
	144	5720	13.26	13.50
802.11ax HE40	102	5510	13.23	13.50
	110	5550	13.16	13.50
	126	5630	13.24	13.50
	134	5670	13.24	13.50
	142	5710	13.16	13.50
802.11ax HE80	106	5530	13.21	13.50
	122	5610	13.16	13.50
	138	5690	13.23	13.50

U-NII-3(5.8 GHz)						
Mode	Channel	Frequency (MHz)	Main		Aux	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit
802.11a	149	5745	9.91	10.00	9.95	10.00
	157	5785	9.78	10.00	9.99	10.00
	165	5825	9.99	10.00	9.83	10.00
802.11n HT20	149	5745	9.82	10.00	9.98	10.00
	157	5785	9.72	10.00	9.93	10.00
	165	5825	9.92	10.00	9.84	10.00
802.11n HT40	151	5755	9.88	10.00	9.92	10.00
	159	5795	9.74	10.00	9.86	10.00
802.11ac VHT20	149	5745	9.78	10.00	9.88	10.00
	157	5785	9.64	10.00	9.84	10.00
	165	5825	9.86	10.00	9.81	10.00
802.11ac VHT40	151	5755	9.86	10.00	9.75	10.00
	159	5795	9.74	10.00	9.82	10.00
802.11ac VHT80	155	5775	9.98	10.00	9.99	10.00
802.11ax HE20	149	5745	9.69	10.00	9.89	10.00
	157	5785	9.62	10.00	9.91	10.00
	165	5825	9.76	10.00	9.78	10.00
802.11ax HE40	151	5755	9.77	10.00	9.72	10.00
	159	5795	9.69	10.00	9.81	10.00
802.11ax HE80	155	5775	9.88	10.00	9.93	10.00

U-NII-3(5.8 GHz)				
Mode	Channel	Frequency (MHz)	MIMO	
			Average power (dBm) MIMO	Tune-Up Limit
802.11a	149	5745	12.85	13.00
	157	5785	12.80	13.00
	165	5825	12.83	13.00
802.11n HT20	149	5745	12.81	13.00
	157	5785	12.74	13.00
	165	5825	12.80	13.00
802.11n HT40	151	5755	12.82	13.00
	159	5795	12.72	13.00
802.11ac VHT20	149	5745	12.75	13.00
	157	5785	12.66	13.00
	165	5825	12.75	13.00
802.11ac VHT40	151	5755	12.72	13.00
	159	5795	12.69	13.00
802.11ac VHT80	155	5775	12.90	13.00
802.11ax HE20	149	5745	12.71	13.00
	157	5785	12.68	13.00
	165	5825	12.69	13.00
802.11ax HE40	151	5755	12.66	13.00
	159	5795	12.67	13.00
802.11ax HE80	155	5775	12.82	13.00

Note:

Additional conducted power measurement is required when reported SAR is $> 1.2\text{W/kg}$. In case the subsequent test configuration and the channel bandwidth is smaller than the initial test configuration, all channels that overlap with the larger channel bandwidth in the initial configuration should be tested.

1. The initial test configuration for 2.4 GHz and 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple transmission modes (802.11a/g/n/ac/ax) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, lowest order 802.11 mode is selected (i.e. a, g, n, ac then ax)
2. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure requirements, is adjusted by the ratio of the subsequent test configuration to the initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/Kg}$, SAR is not required for that subsequent test configuration.

● Bluetooth Conducted Power

Band	CH	Frequency (MHz)	Peak Power (dBm)	Average Power (dBm)	
			Aux	Aux	Tune-Up Limit
Bluetooth BR GFSK	0	2402	10.35	9.81	11.5
	39	2441	10.82	9.93	11.5
	78	2480	10.71	9.85	11.5
Bluetooth EDR $\pi/4$ -DQPSK	0	2402	10.23	6.53	8.5
	39	2441	10.63	6.81	8.5
	78	2480	10.48	6.64	8.5
Bluetooth EDR 8DPSK	0	2402	10.44	6.52	8.5
	39	2441	10.84	6.84	8.5
	78	2480	10.63	6.57	8.5

Band	CH	Frequency (MHz)	Bandwidth	Peak Power (dBm)	Average Power (dBm)	
				Aux	Aux	Tune-Up Limit
Bluetooth LE	0	2402	1M	10.77	9.85	11.5
	19	2440		10.87	10.01	11.5
	39	2480		10.97	10.31	11.5
	0	2402	2M	10.75	10.55	11.5
	19	2440		11.16	10.59	11.5
	39	2480		11.13	10.67	11.5

Note:

The G-sensor is not applied to bluetooth mode.