

A.3 MAXIMUM OUTPUT POWER AND EMISSION/OCCUPIED BANDWIDTH

Test Date	2022/10/29~11/07	Temp./Hum.	22~23°C/63 ~ 65%
Cable Loss	1.0dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 Average Output Power and Emission/Occupied Bandwidth

Mode 802.11a	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Max Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note 3}		
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main								
U-NII Band 1	5180	23.75	22.73	16.774	16.628	16.560	17.120	0.101	17.221	24	N/A		
	5200	23.48	22.95	16.701	16.665	16.750	17.000		17.101				
	5240	22.59	22.67	16.739	16.693	16.890	16.660		16.991				
U-NII Band 2A	5260	23.26	22.06	16.658	16.594	16.660	17.100		17.201		24.44		
	5300	23.55	22.80	16.678	16.715	16.530	16.960		17.061		24.58		
	5320	23.51	22.84	16.766	16.599	16.810	17.110		17.211		24.59		
U-NII Band 2C	5500	22.93	22.44	16.665	16.664	17.290	17.060		17.391		24.51		
	5580	22.91	23.10	16.695	16.718	16.960	17.040		17.141		24.60		
	5700	23.38	23.27	16.680	16.733	17.210	16.930		17.311		24.67		
	5720	22.28	23.34	16.591	16.688	17.260	16.910		17.361		24.48		
Mode 802.11a	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)			Duty Cycle Factor (dB) 10log(1/X)		Max Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main								
U-NII Band 3	5745	16.18	15.31	16.649	16.670	16.980	17.120	0.101	17.221	30	N/A		
	5785	15.07	13.22	16.554	16.606	17.560	16.920		17.661				
	5825	16.36	16.34	16.689	16.766	17.380	16.830		17.481				

Note: 1. The results have been included cable loss.

2. Max Average Output Power (dBm) = Max of each average output power (dBm)+ Duty Cycle Factor (dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth.

Mode 802.11n-HT20	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note 3}		
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main								
U-NII Band 1	5180	23.04	23.32	17.763	17.765	16.680	16.660	N/A	24	N/A			
	5200	23.38	23.91	17.804	17.745	16.440	16.420						
	5240	23.93	23.52	17.743	17.820	16.660	16.720						
U-NII Band 2A	5260	23.91	23.46	17.823	17.739	16.420	16.630						
	5300	23.97	23.69	17.782	17.783	16.080	16.360						
	5320	23.88	23.47	17.746	17.790	16.460	16.590						
U-NII Band 2C	5500	22.83	23.13	17.826	17.775	16.790	16.790						
	5580	22.92	24.88	17.778	17.794	17.080	16.660						
	5700	23.17	23.86	17.764	17.785	17.000	16.850						
	5720	23.55	24.09	17.774	17.787	16.990	16.600						
Mode 802.11n-HT20	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)				Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main						
		Aux	Main	Aux	Main								
U-NII Band 3	5745	17.01	17.61	17.805	17.721	16.990	16.650	N/A	30	N/A			
	5785	17.62	17.70	17.728	17.788	16.920	16.550						
	5825	17.57	17.63	17.746	17.715	17.020	16.500						

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth.

Mode 802.11n-HT40	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5190	42.75	41.80	36.004	35.999	15.520	15.550	N/A	24	N/A	
	5230	42.61	42.48	36.038	35.996	17.050	17.130				
U-NII Band 2A	5270	42.82	42.18	35.999	35.985	17.070	17.160				
	5310	42.74	41.66	36.051	36.033	15.220	15.340				
U-NII Band 2C	5510	42.31	42.48	36.007	36.023	17.200	16.920				
	5550	45.02	42.41	36.105	35.996	17.150	17.390				
	5670	43.04	42.93	36.009	35.935	17.470	16.850				
	5710	43.16	41.52	36.000	35.929	17.610	16.870				
Mode 802.11n-HT40	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5755	35.71	35.02	35.998	36.013	17.420	17.250	N/A	30	N/A	
	5795	35.10	36.28	36.020	35.996	17.490	16.920				

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth.

Mode 802.11ac- VHT80	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5210	85.80	81.48	75.100	75.094	13.920	14.160	N/A	24	N/A	
U-NII Band 2A	5290	84.26	81.00	75.158	75.048	14.320	14.300			30.08	
U-NII Band 2C	5530	84.22	81.31	75.138	75.173	15.150	15.060			30.10	
	5610	84.52	81.81	75.235	74.921	16.440	16.310			30.13	
	5690	86.69	83.29	75.177	75.005	16.570	16.210			30.21	
Mode 802.11ac- VHT80	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)				Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5775	71.33	72.23	75.227	75.176	17.030	16.910	N/A	30	N/A	

Mode 802.11ac- VHT160	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1/2A	5250	163.20	161.20	153.400	153.420	11.310	11.110	N/A	24	33.07	
U-NII Band 2C	5570	162.30	161.40	153.620	153.510	14.300	14.380			33.08	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE20	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main	Aux	Main				
U-NII Band 1	5180	23.76	23.32	18.898	18.910	16.650	16.190	N/A	24	N/A	
	5200	22.78	23.09	18.882	18.925	16.810	16.360				
	5240	23.90	23.41	18.885	18.899	16.990	16.580				
U-NII Band 2A	5260	22.82	23.35	18.866	18.909	16.610	16.590				
	5300	23.93	22.96	18.894	18.865	16.590	16.640				
	5320	23.65	22.33	18.884	18.904	16.620	16.590				
U-NII Band 2C	5500	22.91	23.92	18.887	18.901	16.580	16.890				
	5580	22.86	24.39	18.900	18.932	17.100	16.700				
	5700	23.03	22.98	18.916	18.910	16.920	16.700				
	5720	23.59	23.29	18.916	18.890	16.890	16.870				
U-NII Band 3	5745	15.90	15.12	18.900	18.894	17.060	16.730		N/A	30	N/A
	5785	16.35	15.01	18.921	18.920	17.130	16.720				
	5825	17.92	15.05	18.869	18.916	17.330	16.450				

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE40	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11 dB m+10 log B) ^{Note 3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5190	42.97	41.68	37.518	37.483	15.020	15.130	0.101	24	N/A	
	5230	40.47	40.62	37.440	37.463	16.760	16.730				
U-NII Band 2A	5270	41.29	42.58	37.597	37.614	16.680	16.720				
	5310	43.41	42.24	37.499	37.487	14.830	15.240				
U-NII Band 2C	5510	41.95	41.43	37.585	37.600	16.720	16.900				
	5550	41.14	42.31	37.544	37.513	17.150	16.890				
	5670	41.38	41.97	37.356	37.505	17.060	16.580				
	5710	42.62	41.04	37.510	37.492	17.060	16.900				
Mode 802.11ax- HE40	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11 dB m+10 log B) ^{Note 3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5755	29.89	33.77	37.460	37.525	17.090	16.630	0.101	30	N/A	
	5795	32.65	32.60	37.553	37.470	17.160	16.640				

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE80	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1	5210	82.70	82.00	76.636	76.632	13.890	13.760	0.101	24	30.20	
U-NII Band 2A	5290	83.32	83.10	76.786	76.613	14.120	14.180				
U-NII Band 2C	5530	81.48	81.67	76.671	76.775	14.890	14.730				
	5610	82.21	81.33	76.806	76.662	16.150	16.110				
	5690	82.73	80.72	76.833	76.655	16.340	15.860				

Mode 802.11ax- HE80	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note3}
		Emission (6dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 3	5775	73.83	73.90	76.767	76.860	16.790	16.690	0.101	30	N/A	

Mode 802.11ax- HE160	Centre Frequency (MHz)	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note2}	Limit (dBm)	Limit(11dB m+10 log B) ^{Note3}
		Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
		Aux	Main	Aux	Main						
U-NII Band 1/2A	5250	162.40	162.20	155.03	154.76	11.320	10.910	N/A	24	33.10	
U-NII Band 2C	5570	161.33	162.20	155.25	155.18	14.210	13.990			33.08	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE20	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/ X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11 dBm+1 0 log B) ^{Note 3}	
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main					
			Aux	Main	Aux	Main							
U-NII Band 1	5180	26/0	23.76	23.32	18.898	18.910	9.710	9.790	0.214	12.974	24	N/A	
		52/37	23.76	23.32	18.898	18.910	13.190	13.030	0.146	16.267			
		106/53	23.76	23.32	18.898	18.910	15.940	15.850	N/A	18.906			
U-NII Band 2A	5320	26/8	23.65	22.33	18.884	18.904	9.600	9.410	0.214	12.730	24	24.49	
		52/40	23.65	22.33	18.884	18.904	13.220	13.140	0.146	16.336			
		106/54	23.65	22.33	18.884	18.904	15.750	15.800	N/A	18.785			
U-NII Band 2C	5500	26/0	22.91	23.92	18.887	18.901	9.930	9.720	0.214	13.051	24	24.60	
		52/37	22.91	23.92	18.887	18.901	13.540	13.250	0.146	16.554			
		106/53	22.91	23.92	18.887	18.901	15.070	15.010	N/A	18.050			
	5700	26/8	23.03	22.98	18.916	18.910	9.670	9.470	0.214	12.795			24.61
		52/40	23.03	22.98	18.916	18.910	13.230	13.120	0.146	16.332			
		106/54	23.03	22.98	18.916	18.910	16.190	15.920	N/A	19.067			
U-NII Band 3	5745	26/0	15.90	15.12	18.900	18.894	15.640	15.360	0.214	18.727	30	N/A	
		52/37	15.90	15.12	18.900	18.894	13.190	13.030	0.146	16.267			
		106/53	15.90	15.12	18.900	18.894	17.340	17.040	N/A	20.203			
5825	26/8	17.92	15.05	18.869	18.916	16.000	15.480	0.214	18.972				
	52/40	17.92	15.05	18.869	18.916	13.260	12.870	0.146	16.226				
	106/54	17.92	15.05	18.869	18.916	17.520	16.890	N/A	20.227				

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE40	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note2}	Limit (dBm)	Limit(1 1dBm+ 10 log B) ^{Note3}
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1	5190	242/61	42.97	41.68	37.518	37.483	16.260	16.060	0.168	24	N/A	
U-NII Band 2A	5310	242/62	43.41	42.24	37.499	37.487	15.640	15.780				
U-NII Band 2C	5510	242/61	41.95	41.43	37.585	37.600	16.760	16.850				
	5670	242/62	41.38	41.97	37.356	37.505	17.400	17.440				
U-NII Band 3	5755	242/61	29.89	33.77	37.460	37.525	17.040	17.000	0.168	30	N/A	
	5795	242/62	32.65	32.60	37.553	37.470	17.560	17.200				

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth.

Mode 802.11ax- HE80	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11d Bm+10 log B) ^{Note 3}
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1	5210	484/65	82.70	82.00	76.636	76.632	14.120	14.120	0.092	24	N/A	
U-NII Band 2A	5290	484/66	83.32	83.10	76.786	76.613	12.050	12.070				
U-NII Band 2C	5530	484/65	81.48	81.67	76.671	76.775	15.100	15.390				
	5610	484/66	82.21	81.33	76.806	76.662	17.120	16.820				
U-NII Band 3	5775	484/65	73.83	73.90	76.767	76.860	17.160	17.200	0.092	30	N/A	
		484/66	73.83	73.90	76.767	76.860	17.120	17.130				

Mode 802.11ax- HE160	Centre Frequency (MHz)	RU Configuration	Bandwidth(MHz)				Average Output Power (dBm)		Duty Cycle Factor (dB) 10log(1/X)	Total Average Output Power (dBm) ^{Note 2}	Limit (dBm)	Limit(11d Bm+10 log B) ^{Note 3}
			Emission (26dB) Bandwidth		Occupied (99%) Bandwidth		Aux	Main				
			Aux	Main	Aux	Main						
U-NII Band 1/2A	5250	996/97	162.40	162.20	155.03	154.76	13.730	13.520	0.191	24	33.10	
		996/S67	162.40	162.20	155.03	154.76	11.740	11.650				
U-NII Band 2C	5570	996/97	161.33	162.20	155.25	155.18	13.770	13.640				
		996/S67	161.33	162.20	155.25	155.18	16.120	16.020				

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total average output power(dBm) = Sum to individual output power (dBm)+ duty cycle factor(dB) when duty cycle is less than 98%.

3. B is the 26 dB emission bandwidth

A.3.2 Measurement Plots

- Maximum Output Power



















