

A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2022/10/28~11/17	Temp./Hum.	23°C/61~63%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

A.4.1 Peak Output Power

Test SKU: SKU #1 (with INPAQ Antenna)

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max Peak Output Power (dBm)	Antenna Gain (dBi)		E.I.R.P (dBm) ^{Note 2}	Limit
		Aux	Main		Aux	Main		
802.11b	2412	23.390	23.170	23.390	1.10	2.20	25.370	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2442	23.360	23.290	23.360	1.60	3.00	26.290	
	2462	23.220	23.160	23.220	1.60	3.00	26.160	
	2467	22.670	22.210	22.670	1.60	3.00	25.210	
	2472	20.650	19.560	20.650	1.60	3.00	22.560	
802.11g	2412	21.490	21.240	21.490	1.10	2.20	23.440	
	2417	23.110	23.400	23.400	1.10	2.20	25.600	
	2442	24.040	23.870	24.040	1.60	3.00	26.870	
	2457	23.130	22.840	23.130	1.60	3.00	25.840	
	2462	21.380	21.340	21.380	1.60	3.00	24.340	
	2467	19.300	18.990	19.300	1.60	3.00	21.990	
	2472	17.050	16.770	17.050	1.60	3.00	19.770	

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

2. E.I.R.P.= The Max. of Peak Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power ^{Note2} (dBm)	Directional Gain ^{Note3} (dBi)	E.I.R.P ^{Note4} (dBm)	Limit
		Aux	Main				
802.11n-HT20	2412	18.900	19.490	22.215	1.68	23.895	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	21.250	21.520	24.397	1.68	26.077	
	2422	22.610	22.640	25.635	1.68	27.315	
	2442	23.460	23.660	26.571	2.36	28.931	
	2457	22.400	22.640	25.532	2.36	27.892	
	2462	19.300	19.600	22.463	2.36	24.823	
	2467	15.490	15.720	18.617	2.36	20.977	
	2472	11.400	11.280	14.351	2.36	16.711	
802.11n-HT40	2422	19.980	20.390	23.200	1.68	24.880	
	2442	20.740	21.520	24.158	2.36	26.518	
	2452	20.200	20.610	23.420	2.36	25.780	
	2457	15.250	15.740	18.512	2.36	20.872	
	2462	12.030	12.190	15.121	2.36	17.481	
802.11ax-HE20	2412	19.270	19.490	22.392	1.68	24.072	
	2417	21.510	21.760	24.647	1.68	26.327	
	2422	22.930	22.660	25.807	1.68	27.487	
	2442	23.800	24.030	26.927	2.36	29.287	
	2457	22.650	22.710	25.690	2.36	28.050	
	2462	19.740	19.690	22.725	2.36	25.085	
	2467	15.780	15.630	18.716	2.36	21.076	
	2472	11.510	11.430	14.480	2.36	16.840	
802.11ax-HE40	2422	20.050	20.030	23.050	1.68	24.730	
	2442	20.960	21.200	24.092	2.36	26.452	
	2452	19.720	20.140	22.945	2.36	25.305	
	2457	15.010	15.400	18.220	2.36	20.580	
	2462	12.320	12.170	15.256	2.36	17.616	

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

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{1.10/10} + 10^{2.20/10})/2] = 1.68\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{1.60/10} + 10^{3.00/10})/2] = 2.36\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

Mode	Centre Frequency (MHz)	RU Configuration	Peak Output Power (dBm)		Total Peak Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	E.I.R.P ^{Note 4} (dBm)	Limit
			Aux	Main				
802.11ax-HE20	2412	26/30	22.260	22.330	25.305	1.68	26.985	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	22.490	22.580	25.546	1.68	27.226	
		106/53	22.180	22.190	25.195	1.68	26.875	
	2472	26/8	18.720	18.830	21.786	2.36	24.146	
		52/40	19.080	18.940	22.021	2.36	24.381	
		106/54	19.080	18.920	22.011	2.36	24.371	
802.11ax-HE40	2422	242/61	19.570	19.580	22.585	1.68	24.265	
	2462	242/62	17.700	17.810	20.766	2.36	23.126	

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

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{1.10/10} + 10^{2.20/10})/2] = 1.68\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{1.60/10} + 10^{3.00/10})/2] = 2.36\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm) ^{Note 2}	Limit
		Aux	Aux		
BLE (1Mbps)	2402	5.360	1.60	6.960	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2440	5.830	1.60	7.430	
	2480	6.180	1.60	7.780	
BLE (2Mbps)	2402	5.460	1.60	7.060	
	2440	6.000	1.60	7.600	
	2480	6.200	1.60	7.800	
BLE (PHY Coded S2)	2402	6.090	1.60	7.690	
	2440	5.880	1.60	7.480	
	2480	5.450	1.60	7.050	
BLE (PHY Coded S8)	2402	5.470	1.60	7.070	
	2440	5.870	1.60	7.470	
	2480	6.170	1.60	7.770	

Note: 1. The results have been included cable loss.
 2. E.I.R.P.= The Peak Output Power (dBm)+ Antenna Gain (dBi).

Test SKU: SKU #2 (with LUXSHARE-ICT Antenna)

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max Peak Output Power (dBm)	Antenna Gain (dBi)		E.I.R.P (dBm) ^{Note 2}	Limit
		Aux	Main		Aux	Main		
802.11b	2412	23.390	23.170	23.390	2.89	-1.45	26.276	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2442	23.360	23.290	23.360	-0.07	0.26	23.555	
	2462	23.220	23.160	23.220	-0.07	0.26	23.425	
	2467	22.670	22.210	22.670	-0.07	0.26	22.603	
	2472	20.650	19.560	20.650	-0.07	0.26	20.583	
802.11g	2412	21.490	21.240	21.490	2.89	-1.45	24.376	
	2417	23.110	23.400	23.400	2.89	-1.45	25.996	
	2442	24.040	23.870	24.040	-0.07	0.26	24.135	
	2457	23.130	22.840	23.130	-0.07	0.26	23.105	
	2462	21.380	21.340	21.380	-0.07	0.26	21.605	
	2467	19.300	18.990	19.300	-0.07	0.26	19.255	
	2472	17.050	16.770	17.050	-0.07	0.26	17.035	

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

2. E.I.R.P.= The Max. of Peak Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power ^{Note2} (dBm)	Directional Gain ^{Note3} (dBi)	E.I.R.P ^{Note4} (dBm)	Limit
		Aux	Main				
802.11n-HT20	2412	18.900	19.490	22.215	1.24	23.455	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	21.250	21.520	24.397	1.24	25.637	
	2422	22.610	22.640	25.635	1.24	26.875	
	2442	23.460	23.660	26.571	0.10	26.671	
	2457	22.400	22.640	25.532	0.10	25.632	
	2462	19.300	19.600	22.463	0.10	22.563	
	2467	15.490	15.720	18.617	0.10	18.717	
	2472	11.400	11.280	14.351	0.10	14.451	
802.11n-HT40	2422	19.980	20.390	23.200	1.24	24.440	
	2442	20.740	21.520	24.158	0.10	24.258	
	2452	20.200	20.610	23.420	0.10	23.520	
	2457	15.250	15.740	18.512	0.10	18.612	
	2462	12.030	12.190	15.121	0.10	15.221	
802.11ax-HE20	2412	19.270	19.490	22.392	1.24	23.632	
	2417	21.510	21.760	24.647	1.24	25.887	
	2422	22.930	22.660	25.807	1.24	27.047	
	2442	23.800	24.030	26.927	0.10	27.027	
	2457	22.650	22.710	25.690	0.10	25.790	
	2462	19.740	19.690	22.725	0.10	22.825	
	2467	15.780	15.630	18.716	0.10	18.816	
	2472	11.510	11.430	14.480	0.10	14.580	
802.11ax-HE40	2422	20.050	20.030	23.050	1.24	24.290	
	2442	20.960	21.200	24.092	0.10	24.192	
	2452	19.720	20.140	22.945	0.10	23.045	
	2457	15.010	15.400	18.220	0.10	18.320	
	2462	12.320	12.170	15.256	0.10	15.356	

- Note: 1. The results have been included cable loss.
 2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power
 3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then
 Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi
 2400MHz: Directional gain = $10 \log[(10^{2.89/10} + 10^{-1.45/10})/2] = 1.24$ dBi
 2450MHz: Directional gain = $10 \log[(10^{-0.07/10} + 10^{0.26/10})/2] = 0.10$ dBi
 The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).
 4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

Mode	Centre Frequency (MHz)	RU Configuration	Peak Output Power (dBm)		Total Peak Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	E.I.R.P. Note 4 (dBm)	Limit
			Aux	Main				
802.11ax-HE20	2412	26/30	22.260	22.330	25.305	1.24	26.545	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	22.490	22.580	25.546	1.24	26.786	
		106/53	22.180	22.190	25.195	1.24	26.435	
	2472	26/8	18.720	18.830	21.786	0.10	21.886	
		52/40	19.080	18.940	22.021	0.10	22.121	
		106/54	19.080	18.920	22.011	0.10	22.111	
802.11ax-HE40	2422	242/61	19.570	19.580	22.585	1.24	23.825	
	2462	242/62	17.700	17.810	20.766	0.10	20.866	

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

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{2.89/10} + 10^{-1.45/10})/2] = 1.24\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{-0.07/10} + 10^{0.26/10})/2] = 0.10\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm) ^{Note 2}	Limit
		Aux	Aux		
BLE (1Mbps)	2402	5.360	2.89	8.250	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2440	5.830	2.89	8.720	
	2480	6.180	2.89	9.070	
BLE (2Mbps)	2402	5.460	2.89	8.350	
	2440	6.000	2.89	8.890	
	2480	6.200	2.89	9.090	
BLE (PHY Coded S2)	2402	6.090	2.89	8.980	
	2440	5.880	2.89	8.770	
	2480	5.450	2.89	8.340	
BLE (PHY Coded S8)	2402	5.470	2.89	8.360	
	2440	5.870	2.89	8.760	
	2480	6.170	2.89	9.060	

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

2. E.I.R.P.= The Peak Output Power (dBm)+ Antenna Gain (dBi).

A.4.2 Average Output Power (Reporting only)

Test SKU: SKU #1 (with INPAQ Antenna)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Max Average Output Power (dBm)	Antenna Gain (dBi)		E.I.R.P (dBm) ^{Note 2}	Limit
		Aux	Main			Aux	Main		
802.11b	2412	19.570	20.080	N/A	20.080	1.10	2.20	22.280	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2442	19.530	20.030		20.030	1.60	3.00	23.030	
	2462	19.700	19.970		19.970	1.60	3.00	22.970	
	2467	19.110	18.910		19.110	1.60	3.00	21.910	
	2472	16.510	15.900		16.510	1.60	3.00	18.900	
802.11g	2412	16.430	16.670	0.101	16.771	1.10	2.20	18.971	
	2417	18.640	19.010		19.090	1.10	2.20	21.311	
	2442	19.420	19.470		19.571	1.60	3.00	22.571	
	2457	18.110	17.970		18.211	1.60	3.00	21.071	
	2462	16.260	16.580		16.681	1.60	3.00	19.681	
	2467	14.490	14.220		14.591	1.60	3.00	17.321	
	2472	11.270	11.230		11.371	1.60	3.00	14.331	

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

2. E.I.R.P.= The Max. of Average Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

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

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Total Average Output Power ^{Note 2} (dBm)	Directional Gain ^{Note 3} (dBi)	Average Output Power (E.I.R.P.) ^{Note 4} (dBm)	Limit
		Aux	Main					
802.11n-HT20	2412	14.320	14.560	N/A	17.452	1.68	19.132	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	16.600	16.970		19.799	1.68	21.479	
	2422	17.880	17.720		20.811	1.68	22.491	
	2442	19.430	19.470		22.460	2.36	24.820	
	2457	17.630	17.750		20.701	2.36	23.061	
	2462	14.410	14.680		17.557	2.36	19.917	
	2467	10.710	10.660		13.695	2.36	16.055	
	2472	5.520	5.320		8.431	2.36	10.791	
802.11n-HT40	2422	14.080	13.940	N/A	17.021	1.68	18.701	
	2442	14.750	15.170		17.975	2.36	20.335	
	2452	14.010	14.380		17.209	2.36	19.569	
	2457	8.870	9.270		12.085	2.36	14.445	
	2462	5.930	5.730		8.841	2.36	11.201	
802.11ax-HE20	2412	14.280	14.680	N/A	17.495	1.68	19.175	
	2417	16.770	16.760		19.775	1.68	21.455	
	2422	17.840	17.910		20.885	1.68	22.565	
	2442	19.280	19.620		22.464	2.36	24.824	
	2457	17.930	17.830		20.891	2.36	23.251	
	2462	14.920	14.660		17.802	2.36	20.162	
	2467	11.020	10.800		13.922	2.36	16.282	
	2472	5.680	5.360		8.533	2.36	10.893	
802.11ax-HE40	2422	13.680	13.980	N/A	16.843	1.68	18.523	
	2442	14.560	14.890		17.738	2.36	20.098	
	2452	13.410	13.860		16.651	2.36	19.011	
	2457	8.680	9.150		11.932	2.36	14.292	
	2462	5.340	5.440		8.401	2.36	10.761	

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

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

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{1.10/10} + 10^{2.20/10})/2] = 1.68\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{1.60/10} + 10^{3.00/10})/2] = 2.36\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

Mode	Centre Frequency (MHz)	RU Configuration	Average Output Power (dBm)		Duty cycle factor (dB) 10log	Total Average Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	Average Output Power (E.I.R.P) Note 4	Limit
			Aux	Main					
802.11ax-HE20	2412	26/30	17.420	17.350	0.264	20.659	1.68	22.339	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	17.960	17.860	0.146	21.067	1.68	22.747	
		106/53	17.810	17.930	N/A	20.881	1.68	22.561	
	2472	26/8	5.190	5.260	0.264	8.499	2.36	10.859	
		52/40	6.060	6.150	0.146	9.262	2.36	11.622	
		106/54	6.270	6.200	N/A	9.245	2.36	11.605	
802.11ax-HE40	2422	242/61	14.540	14.430	0.150	17.646	1.68	19.326	
	2462	242/62	6.350	6.260	0.150	9.466	2.36	11.826	

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

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

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{1.10/10} + 10^{2.20/10})/2] = 1.68\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{1.60/10} + 10^{3.00/10})/2] = 2.36\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

Test SKU: SKU #2 (with LUXSHARE-ICT Antenna)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Max Average Output Power (dBm)	Antenna Gain (dBi)		E.I.R.P (dBm) ^{Note 2}	Limit
		Aux	Main			Aux	Main		
802.11b	2412	19.570	20.080	N/A	20.080	2.89	-1.45	22.460	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2442	19.530	20.030		20.030	-0.07	0.26	20.290	
	2462	19.700	19.970		19.970	-0.07	0.26	20.230	
	2467	19.110	18.910		19.110	-0.07	0.26	19.170	
	2472	16.510	15.900		16.510	-0.07	0.26	16.440	
802.11g	2412	16.430	16.670	0.101	16.771	2.89	-1.45	19.421	
	2417	18.640	19.010		19.090	2.89	-1.45	21.631	
	2442	19.420	19.470		19.571	-0.07	0.26	19.831	
	2457	18.110	17.970		18.211	-0.07	0.26	18.331	
	2462	16.260	16.580		16.681	-0.07	0.26	16.941	
	2467	14.490	14.220		14.591	-0.07	0.26	14.581	
	2472	11.270	11.230		11.371	-0.07	0.26	11.591	

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

2. E.I.R.P.= The Max. of Average Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

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

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Total Average Output Power ^{Note 2} (dBm)	Directional Gain ^{Note 3} (dBi)	Average Output Power (E.I.R.P.) ^{Note 4} (dBm)	Limit
		Aux	Main					
802.11n-HT20	2412	14.320	14.560	N/A	17.452	1.24	18.692	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	16.600	16.970		19.799	1.24	21.039	
	2422	17.880	17.720		20.811	1.24	22.051	
	2442	19.430	19.470		22.460	0.10	22.560	
	2457	17.630	17.750		20.701	0.10	20.801	
	2462	14.410	14.680		17.557	0.10	17.657	
	2467	10.710	10.660		13.695	0.10	13.795	
	2472	5.520	5.320		8.431	0.10	8.531	
802.11n-HT40	2422	14.080	13.940	N/A	17.021	1.24	18.261	
	2442	14.750	15.170		17.975	0.10	18.075	
	2452	14.010	14.380		17.209	0.10	17.309	
	2457	8.870	9.270		12.085	0.10	12.185	
	2462	5.930	5.730		8.841	0.10	8.941	
802.11ax-HE20	2412	14.280	14.680	N/A	17.495	1.24	18.735	
	2417	16.770	16.760		19.775	1.24	21.015	
	2422	17.840	17.910		20.885	1.24	22.125	
	2442	19.280	19.620		22.464	0.10	22.564	
	2457	17.930	17.830		20.891	0.10	20.991	
	2462	14.920	14.660		17.802	0.10	17.902	
	2467	11.020	10.800		13.922	0.10	14.022	
	2472	5.680	5.360		8.533	0.10	8.633	
802.11ax-HE40	2422	13.680	13.980	N/A	16.843	1.24	18.083	
	2442	14.560	14.890		17.738	0.10	17.838	
	2452	13.410	13.860		16.651	0.10	16.751	
	2457	8.680	9.150		11.932	0.10	12.032	
	2462	5.340	5.440		8.401	0.10	8.501	

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

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

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{2.89/10} + 10^{-1.45/10})/2] = 1.24\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{-0.07/10} + 10^{0.26/10})/2] = 0.10\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

Mode	Centre Frequency (MHz)	RU Configuration	Average Output Power (dBm)		Duty cycle factor (dB) 10log	Total Average Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	Average Output Power (E.I.R.P.) ^{Note 4}	Limit
			Aux	Main					
802.11ax-HE20	2412	26/30	17.420	17.350	0.264	20.659	1.24	21.899	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	17.960	17.860	0.146	21.067	1.24	22.307	
		106/53	17.810	17.930	N/A	20.881	1.24	22.121	
	2472	26/8	5.190	5.260	0.264	8.499	0.10	8.599	
		52/40	6.060	6.150	0.146	9.262	0.10	9.362	
		106/54	6.270	6.200	N/A	9.245	0.10	9.345	
802.11ax-HE40	2422	242/61	14.540	14.430	0.150	17.646	1.24	18.886	
	2462	242/62	6.350	6.260	0.150	9.466	0.10	9.566	

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

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

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{2.89/10} + 10^{-1.45/10})/2] = 1.24\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{-0.07/10} + 10^{0.26/10})/2] = 0.10\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

A.4.3 Measurement Plots



