

## A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2023/11/16	Temp./Hum.	24°C/53%
Cable Loss	WiFi: 1.30dB, BLE: 0.50dB	Tested By	Harry Huang
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

### A.4.1 Peak Output Power

Test SKU: SKU #1 (With INPAQ ANT)

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max Peak Output Power (dBm)	Antenna Gain (dBi)		E.I.R.P (dBm) <sup>Note 2</sup>	Limit
		Aux	Main		Aux	Main		
802.11b	2412	20.40	20.58	20.58	2.60	2.10	23.00	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	20.38	20.59	20.59	2.60	2.10	22.98	
	2437	20.47	20.56	20.56	2.60	2.10	23.07	
	2442	20.39	20.47	20.47	2.60	2.10	22.99	
	2457	20.50	20.50	20.50	2.60	2.10	23.10	
	2462	20.45	20.67	20.67	2.60	2.10	23.05	
	2467	20.81	21.34	21.34	2.60	2.10	23.44	
	2472	21.05	19.94	21.05	2.60	2.10	23.65	
802.11g	2412	21.78	21.59	21.78	2.60	2.10	24.38	
	2417	21.59	22.01	22.01	2.60	2.10	24.19	
	2437	20.99	21.06	21.06	2.60	2.10	23.59	
	2442	21.13	20.99	21.13	2.60	2.10	23.73	
	2457	21.57	21.40	21.57	2.60	2.10	24.17	
	2462	16.33	21.64	21.64	2.60	2.10	23.74	
	2467	19.50	19.59	19.59	2.60	2.10	22.10	
	2472	16.88	17.16	17.16	2.60	2.10	19.48	

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 Note 2 (dBm)	Directional Gain Note 3 (dBi)	E.I.R.P <sup>Note 4</sup> (dBm)	Limit
		Aux	Main				
802.11n-HT20	2412	19.57	19.59	22.59	2.36	24.95	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	21.70	21.91	24.82	2.36	27.18	
	2422	22.73	21.54	25.19	2.36	27.55	
	2442	20.95	20.93	23.95	2.36	26.31	
	2457	21.53	21.61	24.58	2.36	26.94	
	2462	19.81	19.70	22.77	2.36	25.13	
	2467	15.90	15.55	18.74	2.36	21.10	
	2472	11.38	11.27	14.34	2.36	16.70	
802.11n-HT40	2422	20.19	20.78	23.51	2.36	25.87	
	2427	20.20	20.39	23.31	2.36	25.67	
	2432	20.58	20.76	23.68	2.36	26.04	
	2437	21.32	21.52	24.43	2.36	26.79	
	2442	21.40	20.74	24.09	2.36	26.45	
	2452	20.30	20.54	23.43	2.36	25.79	
	2457	13.78	13.87	16.84	2.36	19.20	
	2462	12.07	12.13	15.11	2.36	17.47	
802.11ax-HE20	2412	19.79	19.96	22.89	2.36	25.25	
	2417	21.84	21.72	24.79	2.36	27.15	
	2442	21.10	21.05	24.09	2.36	26.45	
	2457	21.64	21.98	24.82	2.36	27.18	
	2462	20.07	20.05	23.07	2.36	25.43	
	2467	15.82	15.63	18.74	2.36	21.10	
	2472	11.70	11.51	14.62	2.36	16.98	
802.11ax-HE40	2422	20.06	20.24	23.16	2.36	25.52	
	2442	21.55	21.34	24.46	2.36	26.82	
	2447	20.77	20.97	23.88	2.36	26.24	
	2452	20.27	20.66	23.48	2.36	25.84	
	2457	13.51	13.46	16.50	2.36	18.86	
	2462	11.91	12.06	15.00	2.36	17.36	

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

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

$$\text{Directional gain} = 10 \log[(10^{2.1/10} + 10^{2.6/10})/2] = 2.36 \text{ dBi}$$

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	26/0	22.57	22.92	25.76	2.36	28.12	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	22.84	22.82	25.84	2.36	28.20	
		106/53	23.46	22.86	26.18	2.36	28.54	
	2472	26/8	19.15	18.80	21.99	2.36	24.35	
		52/40	19.77	19.71	22.75	2.36	25.11	
		106/54	19.57	19.68	22.64	2.36	25.00	
802.11ax-HE40	2422	242/61	20.60	20.62	23.62	2.36	25.98	
	2462	242/62	18.11	18.88	21.52	2.36	23.88	

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

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

$$\text{Directional gain} = 10 \log[(10^{2.1/10} + 10^{2.6/10})/2] = 2.36 \text{ dBi}$$

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)	Peak Output Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm) <sup>Note 2</sup>	Limit
		Aux	Aux		
BLE (1Mbps)	2402	8.70	2.60	11.30	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2440	8.95	2.60	11.55	
	2480	9.48	2.60	12.08	
BLE (2Mbps)	2402	8.80	2.60	11.40	
	2440	9.03	2.60	11.63	
	2480	9.63	2.60	12.23	
BLE (PHY Coded S2)	2402	8.84	2.60	11.44	
	2440	9.08	2.60	11.68	
	2480	9.45	2.60	12.05	
BLE (PHY Coded S8)	2402	8.69	2.60	11.29	
	2440	9.05	2.60	11.65	
	2480	9.45	2.60	12.05	

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 #1 (With LUXSHARE-ICT ANT)

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max Peak Output Power (dBm)	Antenna Gain (dBi)		E.I.R.P (dBm) <sup>Note 2</sup>	Limit
		Aux	Main		Aux	Main		
802.11b	2412	20.40	20.58	20.58	5.132	5.813	26.39	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	20.38	20.59	20.59	5.132	5.813	26.40	
	2437	20.47	20.56	20.56	5.132	5.813	26.37	
	2442	20.39	20.47	20.47	2.955	3.347	23.82	
	2457	20.50	20.50	20.50	2.955	3.347	23.85	
	2462	20.45	20.67	20.67	2.955	3.347	24.02	
	2467	20.81	21.34	21.34	2.955	3.347	24.69	
	2472	21.05	19.94	21.05	2.955	3.347	24.01	
802.11g	2412	21.78	21.59	21.78	5.132	5.813	27.40	
	2417	21.59	22.01	22.01	5.132	5.813	27.82	
	2437	20.99	21.06	21.06	2.955	3.347	24.41	
	2442	21.13	20.99	21.13	2.955	3.347	24.34	
	2457	21.57	21.40	21.57	2.955	3.347	24.75	
	2462	16.33	21.64	21.64	2.955	3.347	24.99	
	2467	19.50	19.59	19.59	2.955	3.347	22.94	
	2472	16.88	17.16	17.16	2.955	3.347	20.51	

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 <sup>Note 2</sup> (dBm)	Directional Gain <sup>Note 3</sup> (dBi)	E.I.R.P <sup>Note 4</sup> (dBm)	Limit
		Aux	Main				
802.11n-HT20	2412	19.57	19.59	22.59	5.49	28.08	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	21.70	21.91	24.82	5.49	30.31	
	2422	22.73	21.54	25.19	5.49	30.68	
	2442	20.95	20.93	23.95	3.16	27.11	
	2457	21.53	21.61	24.58	3.16	27.74	
	2462	19.81	19.70	22.77	3.16	25.93	
	2467	15.90	15.55	18.74	3.16	21.90	
	2472	11.38	11.27	14.34	3.16	17.50	
802.11n-HT40	2422	20.19	20.78	23.51	5.49	29.00	
	2427	20.20	20.39	23.31	5.49	28.80	
	2432	20.58	20.76	23.68	3.16	26.84	
	2437	21.32	21.52	24.43	3.16	27.59	
	2442	21.40	20.74	24.09	3.16	27.25	
	2452	20.30	20.54	23.43	3.16	26.59	
	2457	13.78	13.87	16.84	3.16	20.00	
	2462	12.07	12.13	15.11	3.16	18.27	
802.11ax-HE20	2412	19.79	19.96	22.89	5.49	28.38	
	2417	21.84	21.72	24.79	5.49	30.28	
	2442	21.10	21.05	24.09	3.16	27.25	
	2457	21.64	21.98	24.82	3.16	27.98	
	2462	20.07	20.05	23.07	3.16	26.23	
	2467	15.82	15.63	18.74	3.16	21.90	
	2472	11.70	11.51	14.62	3.16	17.78	
	802.11ax-HE40	2422	20.06	20.24	23.16	5.49	
2442		21.55	21.34	24.46	3.16	27.62	
2447		20.77	20.97	23.88	3.16	27.04	
2452		20.27	20.66	23.48	3.16	26.64	
2457		13.51	13.46	16.50	3.16	19.66	
2462		11.91	12.06	15.00	3.16	18.16	

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

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

$$2400\text{MHz: Directional gain} = 10 \log[(10^{5.813/10} + 10^{5.132/10})/2] = 5.49\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{3.347/10} + 10^{2.955/10})/2] = 3.16\text{dBi}$$

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 Note2 (dBm)	Directional Gain Note3 (dBi)	E.I.R.P>Note4 (dBm)	Limit
			Aux	Main				
802.11ax-HE20	2412	26/0	22.57	22.92	25.76	5.49	31.25	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	22.84	22.82	25.84	5.49	31.33	
		106/53	23.46	22.86	26.18	5.49	31.67	
	2472	26/8	19.15	18.80	21.99	3.16	25.15	
		52/40	19.77	17.71	21.87	3.16	25.03	
		106/54	19.57	19.68	22.64	3.16	25.80	
802.11ax-HE40	2422	242/61	20.60	20.62	23.62	5.49	29.11	
	2462	242/62	18.11	18.88	21.52	3.16	24.68	

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

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

$$2400\text{MHz: Directional gain} = 10 \log[(10^{5.813/10} + 10^{5.132/10})/2] = 5.49\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{3.347/10} + 10^{2.955/10})/2] = 3.16\text{dBi}$$

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) <sup>Note 2</sup>	Limit
		Aux	Aux		
BLE (1Mbps)	2402	8.70	5.132	13.83	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2440	8.95	2.955	11.91	
	2480	9.48	0.944	10.42	
BLE (2Mbps)	2402	8.80	5.132	13.93	
	2440	9.03	2.955	11.99	
	2480	9.63	0.944	10.57	
BLE (PHY Coded S2)	2402	8.84	5.132	13.97	
	2440	9.08	2.955	12.04	
	2480	9.45	0.944	10.39	
BLE (PHY Coded S8)	2402	8.69	5.132	13.82	
	2440	9.05	2.955	12.01	
	2480	9.45	0.944	10.39	

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 ANT)

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) <sup>Note 2</sup>	Limit
		Aux	Main			Aux	Main		
802.11b	2412	17.42	17.50	N/A	17.50	2.60	2.10	20.02	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	17.50	17.45		17.50	2.60	2.10	20.10	
	2437	17.47	17.38		17.47	2.60	2.10	20.07	
	2442	17.48	17.34		17.48	2.60	2.10	20.08	
	2457	17.54	17.48		17.54	2.60	2.10	20.14	
	2462	17.44	17.57		17.57	2.60	2.10	20.04	
	2467	17.58	17.53		17.58	2.60	2.10	20.18	
	2472	17.17	16.09		17.17	2.60	2.10	19.77	
802.11g	2412	17.10	16.92	N/A	17.10	2.60	2.10	19.70	
	2417	16.95	16.83		16.95	2.60	2.10	19.55	
	2437	16.96	16.11		16.96	2.60	2.10	19.56	
	2442	16.98	16.74		16.98	2.60	2.10	19.58	
	2457	17.16	16.62		17.16	2.60	2.10	19.76	
	2462	17.02	16.75		17.02	2.60	2.10	19.62	
	2467	14.85	14.37		14.85	2.60	2.10	17.45	
	2472	11.64	11.59		11.64	2.60	2.10	14.24	

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	14.97	15.68	N/A	18.35	2.36	20.71	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	17.02	17.08		20.06	2.36	22.42	
	2422	17.15	17.17		20.17	2.36	22.53	
	2442	17.04	17.11		20.09	2.36	22.45	
	2457	17.19	17.01		20.11	2.36	22.47	
	2462	15.28	15.26		18.28	2.36	20.64	
	2467	11.16	11.13		14.16	2.36	16.52	
	2472	5.97	5.89		8.94	2.36	11.30	
802.11n- HT40	2422	14.39	14.64	N/A	17.53	2.36	19.89	
	2427	14.27	14.18		17.24	2.36	19.60	
	2432	14.80	14.81		17.82	2.36	20.18	
	2437	15.37	15.63		18.51	2.36	20.87	
	2442	15.57	15.38		18.49	2.36	20.85	
	2452	14.46	15.54		18.04	2.36	20.40	
	2457	7.85	7.92		10.90	2.36	13.26	
	2462	6.12	5.99		9.07	2.36	11.43	
802.11ax- HE20	2412	15.00	15.20	N/A	18.11	2.36	20.47	
	2417	17.25	17.39		20.33	2.36	22.69	
	2442	17.16	17.07		20.13	2.36	22.49	
	2457	17.29	17.16		20.24	2.36	22.60	
	2462	15.31	15.26		18.30	2.36	20.66	
	2467	11.40	11.21		14.32	2.36	16.68	
	2472	5.98	5.75		8.88	2.36	11.24	
802.11ax- HE40	2422	14.16	14.23	N/A	17.21	2.36	19.57	
	2442	15.35	15.25		18.31	2.36	20.67	
	2447	14.60	14.58		17.60	2.36	19.96	
	2452	14.30	14.16		17.24	2.36	19.60	
	2457	7.73	7.67		10.71	2.36	13.07	
	2467	5.80	5.77		8.80	2.36	11.16	

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

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

$$\text{Directional gain} = 10 \log[(10^{2.1/10} + 10^{2.6/10})/2] = 2.36\text{dBi}$$

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	26/0	17.52	17.51	N/A	20.53	2.36	22.89	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	17.49	17.42	N/A	20.47	2.36	22.83	
		106/53	17.48	17.50	N/A	20.50	2.36	22.86	
	2472	26/8	5.62	5.68	N/A	8.66	2.36	11.02	
		52/40	6.59	6.60	N/A	9.61	2.36	11.97	
		106/54	6.73	6.67	N/A	9.71	2.36	12.07	
802.11ax-HE40	2422	242/61	15.23	15.31	N/A	18.28	2.36	20.64	
	2462	242/62	6.75	6.59	N/A	9.68	2.36	12.04	

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

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

$$\text{Directional gain} = 10 \log[(10^{2.1/10} + 10^{2.6/10})/2] = 2.36 \text{ dBi}$$

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 #1 (With LUXSHARE-ICT ANT)

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) <sup>Note 2</sup>	Limit
		Aux	Main			Aux	Main		
802.11b	2412	17.42	17.50	N/A	17.50	5.132	5.813	23.31	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	17.50	17.45		17.50	5.132	5.813	23.26	
	2437	17.47	17.38		17.47	5.132	5.813	23.19	
	2442	17.48	17.34		17.48	2.955	3.347	20.69	
	2457	17.54	17.48		17.54	2.955	3.347	20.83	
	2462	17.44	17.57		17.57	2.955	3.347	20.92	
	2467	17.58	17.53		17.58	2.955	3.347	20.88	
	2472	17.17	16.09		17.17	2.955	3.347	20.13	
802.11g	2412	17.10	16.92	N/A	17.10	5.132	5.813	22.73	
	2417	16.95	16.83		16.95	5.132	5.813	22.64	
	2437	16.96	16.11		16.96	2.955	3.347	19.92	
	2442	16.98	16.74		16.98	2.955	3.347	20.09	
	2457	17.16	16.62		17.16	2.955	3.347	20.12	
	2462	17.02	16.75		17.02	2.955	3.347	20.10	
	2467	14.85	14.37		14.85	2.955	3.347	17.81	
	2472	11.64	11.59		11.64	2.955	3.347	14.94	

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 <sup>Note 2</sup> (dBm)	Directional Gain <sup>Note 3</sup> (dBi)	Average Output Power (E.I.R.P) <sup>Note 4</sup> (dBm)	Limit
		Aux	Main					
802.11n- HT20	2412	14.97	15.68	N/A	18.35	5.49	23.84	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	17.02	17.08		20.06	5.49	25.55	
	2422	17.15	17.17		20.17	5.49	25.66	
	2442	17.04	17.11		20.09	3.16	23.25	
	2457	17.19	17.01		20.11	3.16	23.27	
	2462	15.28	15.26		18.28	3.16	21.44	
	2467	11.16	11.13		14.16	3.16	17.32	
	2472	5.97	5.89		8.94	3.16	12.10	
802.11n- HT40	2422	14.39	14.64	N/A	17.53	5.49	23.02	
	2427	14.27	14.18		17.24	5.49	22.73	
	2432	14.80	14.81		17.82	3.16	20.98	
	2437	15.37	15.63		18.51	3.16	21.67	
	2442	15.57	15.38		18.49	3.16	21.65	
	2452	14.46	15.54		18.04	3.16	21.20	
	2457	7.85	7.92		10.90	3.16	14.06	
	2462	6.12	5.99		9.07	3.16	12.23	
802.11ax- HE20	2412	15.00	15.20	N/A	18.11	5.49	23.60	
	2417	17.25	17.39		20.33	5.49	25.82	
	2442	17.16	17.07		20.13	3.16	23.29	
	2457	17.29	17.16		20.24	3.16	23.40	
	2462	15.31	15.26		18.30	3.16	21.46	
	2467	11.40	11.21		14.32	3.16	17.48	
	2472	5.98	5.75		8.88	3.16	12.04	
	802.11ax- HE40	2422	14.16		14.23	N/A	17.21	
2442		15.35	15.25	18.31	3.16		21.47	
2447		14.60	14.58	17.60	3.16		20.76	
2452		14.30	14.16	17.24	3.16		20.40	
2457		7.73	7.67	10.71	3.16		13.87	
2467		5.80	5.77	8.80	3.16		11.96	

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

$$\text{Directional gain} = 10 \log[(10^{G^1/10} + 10^{G^2/10} + \dots + 10^{G^N/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{5.813/10} + 10^{5.132/10})/2] = 5.49\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{3.347/10} + 10^{2.955/10})/2] = 3.16\text{dBi}$$

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	17.52	17.51	N/A	20.53	5.49	26.02	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	17.49	17.42	N/A	20.47	5.49	25.96	
		106/53	17.48	17.50	N/A	20.50	5.49	25.99	
	2472	26/8	5.62	5.68	N/A	8.66	3.16	11.82	
		52/40	6.59	6.60	N/A	9.61	3.16	12.77	
		106/54	6.73	6.67	N/A	9.71	3.16	12.87	
802.11ax-HE40	2422	242/61	15.23	15.31	N/A	18.28	5.49	23.77	
	2462	242/62	6.75	6.59	N/A	9.68	3.16	12.84	

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

$$\text{Directional gain} = 10 \log[(10^{G^1/10} + 10^{G^2/10} + \dots + 10^{G^N/10})/N_{\text{ANT}}] \text{ dBi}$$

$$2400\text{MHz: Directional gain} = 10 \log[(10^{5.813/10} + 10^{5.132/10})/2] = 5.49\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{3.347/10} + 10^{2.955/10})/2] = 3.16\text{dBi}$$

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.5 EMISSION LIMITATIONS

Test Date	2023/10/19 ~ 31	Temp./Hum.	24 ~ 25°C/55 ~ 69%
Cable Loss	WiFi: 1.10dB, BLE: 1.10dB	Tested By	Harry Huang
Test Voltage	AC 120V, 60Hz (via AC Adapter)		





























