

FCC ID:2BRM4-5002000363**Portable device**

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2.4GWIFI:

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11b	2.412	7.845	6.09	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	8.039	6.37	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.062	6.40	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11g	2.412	7.814	6.05	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.969	6.26	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	8.078	6.42	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11n(HT20)	2.412	7.449	5.56	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.67	5.85	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.657	5.83	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT40)	2.422	7.807	6.04	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	8.062	6.40	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.452	8.1	6.46	8±1	9.00	7.94	<5	2.48766	3.00	YES

5.2GWIFI:

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11a20	5.18	7.089	5.12	7±1	8.00	6.31	<5	2.87207	3.00	YES
	5.2	7.39	5.48	7±1	8.00	6.31	<5	2.87761	3.00	YES
	5.24	7.309	5.38	7±1	8.00	6.31	<5	2.88865	3.00	YES
802.11ac20	5.18	6.829	4.82	6±1	7.00	5.01	<5	2.28137	3.00	YES
	5.2	6.955	4.96	6±1	7.00	5.01	<5	2.28577	3.00	YES
	5.24	7.039	5.06	7±1	8.00	6.31	<5	2.88865	3.00	YES
802.11ac40	5.19	7.224	5.28	7±1	8.00	6.31	<5	2.87484	3.00	YES
	5.23	7.093	5.12	7±1	8.00	6.31	<5	2.88590	3.00	YES
802.11ac80	5.21	7.279	5.34	7±1	8.00	6.31	<5	2.88037	3.00	YES
802.11n(HT20)	5.18	6.819	4.81	6±1	7.00	5.01	<5	2.28137	3.00	YES
	5.2	6.943	4.95	6±1	7.00	5.01	<5	2.28577	3.00	YES
	5.24	7.007	5.02	7±1	8.00	6.31	<5	2.88865	3.00	YES
802.11n(HT40)	5.19	7.2	5.25	7±1	8.00	6.31	<5	2.87484	3.00	YES
	5.23	7.243	5.30	7±1	8.00	6.31	<5	2.88590	3.00	YES

5.8GWIFI:

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11a20	5.745	5.052	3.20	5±1	6.00	3.98	<5	1.90842	3.00	YES
	5.785	5.509	3.56	5±1	6.00	3.98	<5	1.91506	3.00	YES
	5.825	5.799	3.80	5±1	6.00	3.98	<5	1.92167	3.00	YES
802.11ac20	5.745	4.741	2.98	4±1	5.00	3.16	<5	1.51592	3.00	YES
	5.785	6.136	4.11	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	6.837	4.83	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11ac40	5.755	6.233	4.20	6±1	7.00	5.01	<5	2.40465	3.00	YES
	5.795	5.133	3.26	5±1	6.00	3.98	<5	1.91671	3.00	YES
802.11ac80	5.775	5.61	3.64	5±1	6.00	3.98	<5	1.91340	3.00	YES
802.11n(HT20)	5.745	5.265	3.36	5±1	6.00	3.98	<5	1.90842	3.00	YES
	5.785	6.233	4.20	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	6.936	4.94	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11n(HT40)	5.755	6.351	4.32	6±1	7.00	5.01	<5	2.40465	3.00	YES
	5.795	5.201	3.31	5±1	6.00	3.98	<5	1.91671	3.00	YES

Conclusion:

For the max result : $2.88865 \leq \text{FCC Limit } 3.0$ for 1g SAR.