

FCC ID:2BBZH-MW1

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.

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
802.11a20	5.745	7.27	5.34	6.5±1	7.50	5.62	<5	2.69572	3.00	YES
	5.785	6.21	4.17	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	5.96	3.95	5±1	6.00	3.98	<5	1.92167	3.00	YES
802.11ac20	5.745	6.79	4.78	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	5.53	3.57	5±1	6.00	3.98	<5	1.91506	3.00	YES
	5.825	6.64	4.62	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11ac40	5.755	6.70	4.68	6±1	7.00	5.01	<5	2.40465	3.00	YES
	5.795	5.45	3.51	5±1	6.00	3.98	<5	1.91671	3.00	YES
802.11ac80	5.775	6.45	4.42	6±1	7.00	5.01	<5	2.40883	3.00	YES
802.11n(HT 20)	5.745	6.03	4.01	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	5.82	3.82	5±1	6.00	3.98	<5	1.91506	3.00	YES
	5.825	6.19	4.16	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11n(HT 40)	5.755	6.73	4.71	6±1	7.00	5.01	<5	2.40465	3.00	YES
	5.795	6.21	4.18	6±1	7.00	5.01	<5	2.41300	3.00	YES

Conclusion:

For the max result : $2.69572 \leq \text{FCC Limit } 3.0$ for 1g SAR.