

FCC ID:2AYLS-MC01

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	6.566	4.54	6±1	7.00	5.01	<5	1.55675	3.00	YES
	2.437	7.407	5.50	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.901	6.17	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11g	2.412	8.1	6.46	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	7.437	5.54	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.181	5.23	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT20)	2.412	7.867	6.12	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.376	5.47	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	6.213	4.18	6±1	7.00	5.01	<5	1.57280	3.00	YES
802.11n(HT40)	2.422	7.564	5.71	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	6.861	4.85	6±1	7.00	5.01	<5	1.56480	3.00	YES
	2.452	6.226	4.19	6±1	7.00	5.01	<5	1.56960	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	6.267	4.23	6±1	7.00	5.01	<5	2.28137	3.00	YES
	5.2	6.097	4.07	6±1	7.00	5.01	<5	2.28577	3.00	YES
	5.24	5.881	3.87	5±1	6.00	3.98	<5	1.82262	3.00	YES
802.11n(HT20)	5.18	6.927	4.93	6±1	7.00	5.01	<5	2.28137	3.00	YES
	5.2	6.738	4.72	6±1	7.00	5.01	<5	2.28577	3.00	YES
	5.24	5.465	3.52	5±1	6.00	3.98	<5	1.82262	3.00	YES
802.11n(HT40)	5.19	7.62	5.78	7±1	8.00	6.31	<5	2.87484	3.00	YES
	5.23	6.44	4.41	6±1	7.00	5.01	<5	2.29235	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	5.509	3.56	5±1	6.00	3.98	<5	1.90842	3.00	YES
	5.785	4.781	3.01	4±1	5.00	3.16	<5	1.52118	3.00	YES
	5.825	6.912	4.91	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11n(HT20)	5.745	5.387	3.46	5±1	6.00	3.98	<5	1.90842	3.00	YES
	5.785	4.31	2.70	4±1	5.00	3.16	<5	1.52118	3.00	YES
	5.825	6.389	4.35	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11n(HT40)	5.755	6.32	4.29	6±1	7.00	5.01	<5	2.40465	3.00	YES
	5.795	6.779	4.76	6±1	7.00	5.01	<5	2.41300	3.00	YES

Conclusion:

For the max result : $2.87484 \leq \text{FCC Limit } 3.0$ for 1g SAR.