

FCC ID: 2A2R6-SHS-101

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.

BT:

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
GFSK	2.402	-1.62	0.69	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.441	-1.65	0.68	-1±1	0.00	1.00	<5	0.31247	3.00	YES
	2.480	-1.902	0.65	-1±1	0.00	1.00	<5	0.31496	3.00	YES

2.4G WIFI:

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	7.776	5.99	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.442	7.164	5.20	8±1	9.00	7.94	<5	2.48258	3.00	YES
	2.462	7.453	5.56	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11g	2.402	6.264	4.23	7±1	8.00	6.31	<5	1.95576	3.00	YES
	2.441	6.437	4.40	7±1	8.00	6.31	<5	1.97158	3.00	YES
	2.481	6	3.98	6±1	7.00	5.01	<5	1.57886	3.00	YES
802.11n(HT20)	2.408	5.982	3.96	6±1	7.00	5.01	<5	1.55546	3.00	YES
	2.441	5.436	3.50	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	5.083	3.22	6±1	7.00	5.01	<5	1.57854	3.00	YES
802.11n(HT40)	2.402	3.97	2.49	4±1	5.00	3.16	<5	0.98020	3.00	YES
	2.441	3.765	2.38	4±1	5.00	3.16	<5	0.98813	3.00	YES
	2.48	3.984	2.50	4±1	5.00	3.16	<5	0.99599	3.00	YES

Conclusion:

For the max result : $2.49272 \leq \text{FCC Limit } 3.0$ for 1g SAR.