

FCC ID:2BLE5-D21

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.

EDR:

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
GFSK	2.402	5.69	3.71	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.441	5.372	3.45	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	4.957	3.13	4±1	5.00	3.16	<5	0.99599	3.00	YES
π /4DQPSK	2.402	5.157	3.28	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.441	5.122	3.25	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	4.657	2.92	4±1	5.00	3.16	<5	0.99599	3.00	YES
8DQPSK	2.402	5.374	3.45	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.441	5.361	3.44	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	4.925	3.11	4±1	5.00	3.16	<5	0.99599	3.00	YES

BLE:

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
GFSK	2.402	5.289	3.38	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.44	5.29	3.38	5±1	6.00	3.98	<5	1.24373	3.00	YES
	2.480	4.915	3.10	4±1	5.00	3.16	<5	0.99599	3.00	YES

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	7.458	5.57	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.744	5.95	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.343	5.42	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11g	2.412	7.513	5.64	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.657	5.83	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.273	5.34	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT20)	2.412	7.458	5.57	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.584	5.73	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.116	5.15	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT40)	2.422	7.468	5.58	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	7.383	5.47	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.452	7.29	5.36	7±1	8.00	6.31	<5	1.97601	3.00	YES

Conclusion:

For the max result : $1.97601 \leq \text{FCC Limit } 3.0$ for 1g SAR.