

FCC ID:2BDJQ-HT17

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 calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	6.836	4.83	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	7.325	5.40	7±1	8.00	6.31	<5	1.97158	3.00	YES
	2.480	6.204	4.17	6±1	7.00	5.01	<5	1.57854	3.00	YES
π /4DQPSK	2.402	9.232	8.38	8.5±1	9.50	8.91	<5	2.76259	3.00	YES
	2.441	9.245	8.40	8.5±1	9.50	8.91	<5	2.78493	3.00	YES
	2.480	8.905	7.77	8±1	9.00	7.94	<5	2.50182	3.00	YES
8DQPSK	2.402	9.446	8.80	8.5±1	9.50	8.91	<5	2.76259	3.00	YES
	2.441	9.019	7.98	8.5±1	9.50	8.91	<5	2.78493	3.00	YES
	2.480	9.013	7.97	8.5±1	9.50	8.91	<5	2.80709	3.00	YES

BLE:1M

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	3.722	2.36	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.44	4.066	2.55	4±1	5.00	3.16	<5	0.98793	3.00	YES
	2.480	2.57	1.81	2±1	3.00	2.00	<5	0.62843	3.00	YES

2M

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	3.435	2.21	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.44	3.984	2.50	3±1	4.00	2.51	<5	0.78474	3.00	YES
	2.480	2.808	1.91	2±1	3.00	2.00	<5	0.62843	3.00	YES

Conclusion:

For the max result : $2.80709 \leq \text{FCC Limit } 3.0$ for 1g SAR.