

FCC ID:2A2P8-Q16

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	-2.415	0.57	-2±1	-1.00	0.79	<5	0.24622	3.00	YES
	2.441	0.046	1.01	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-3.012	0.50	-3±1	-2.00	0.63	<5	0.19873	3.00	YES
π /4DQPSK	2.402	-1.742	0.67	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.441	-1.662	0.68	-1±1	0.00	1.00	<5	0.31247	3.00	YES
	2.480	-2.384	0.58	-2±1	-1.00	0.79	<5	0.25018	3.00	YES
8DQPSK	2.402	-1.465	0.71	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.441	-1.352	0.73	-1±1	0.00	1.00	<5	0.31247	3.00	YES
	2.480	-2.021	0.63	-2±1	-1.00	0.79	<5	0.25018	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 calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-5.119	0.31	-5±1	-4.00	0.40	<5	0.12340	3.00	YES
	2.44	-4.936	0.32	-4±1	-3.00	0.50	<5	0.15658	3.00	YES
	2.480	-4.825	0.33	-4±1	-3.00	0.50	<5	0.15785	3.00	YES

Conclusion:

For the max result : $0.39338 \leq \text{FCC Limit } 3.0$ for 1g SAR.