

FCC ID: 2A2XT-E100

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
EDR mode (GFSK)	2.402	3.982	2.50	4±1	5.00	3.16	<5	0.98020	3.00	YES
	2.44	4.077	2.56	5±1	6.00	3.98	<5	1.24373	3.00	YES
	2.480	2.712	1.87	3±1	4.00	2.51	<5	0.79114	3.00	YES
EDR mode (π /4DQPSK)	2.402	5.005	3.17	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.441	4.875	3.07	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	3.469	2.22	4±1	5.00	3.16	<5	0.99599	3.00	YES
EDR mode (8DPSK)	2.402	5.625	3.65	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	5.502	3.55	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	3.917	2.46	4±1	5.00	3.16	<5	0.99599	3.00	YES

Conclusion:

For the max result : $1.56608\text{W/Kg} \leq \text{FCC Limit } 3.0$ for 1g SAR.