



FCC ID:2ALXN-BE23

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.

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	4.857	3.06	4±1	5.00	3.16	<5	0.98020	3.00	YES
	2.44	4.695	2.95	4±1	5.00	3.16	<5	0.98793	3.00	YES
	2.480	4.383	2.74	4±1	5.00	3.16	<5	0.99599	3.00	YES

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
GFSK	2.402	4.896	3.09	4±1	5.00	3.16	<5	0.98020	3.00	YES
	2.441	4.722	2.97	4±1	5.00	3.16	<5	0.98813	3.00	YES
	2.480	4.425	2.77	4±1	5.00	3.16	<5	0.99599	3.00	YES
Pi/4 DQPSK	2.402	6.892	4.89	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	6.769	4.75	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	6.482	4.45	6±1	7.00	5.01	<5	1.57854	3.00	YES
8DPSK	2.402	7.188	5.23	7±1	8.00	6.31	<5	1.95576	3.00	YES
	2.441	6.95	4.95	7±1	8.00	6.31	<5	1.97158	3.00	YES
	2.480	6.716	4.69	7±1	8.00	6.31	<5	1.98727	3.00	YES

Conclusion:

For the max result : $1.98727\text{W/Kg} \leq \text{FCC Limit } 3.0$ for 1g SAR.