

FCC ID: 2A7MA-R72

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.

BR+EDR:

Antenna Type: Inverted F Antenna

Antenna Gain: -0.58dBi

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	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	2.75	1.884	2±1	3.0	1.995	<5	0.61847	3.00	YES
	2.441	2.12	1.629	2±1	3.0	1.995	<5	0.62347	3.00	YES
	2.480	1.67	1.469	2±1	3.0	1.995	<5	0.62843	3.00	YES
π/4-DQPSK	2.402	0.73	1.183	1±1	2.0	1.585	<5	0.49127	3.00	YES
	2.441	0.98	1.253	1±1	2.0	1.585	<5	0.49524	3.00	YES
	2.480	1.49	1.409	1±1	2.0	1.585	<5	0.49918	3.00	YES
8DPSK	2.402	0.66	1.164	1±1	2.0	1.585	<5	0.49127	3.00	YES
	2.441	1.42	1.387	1±1	2.0	1.585	<5	0.49524	3.00	YES
	2.480	1.94	1.563	1±1	2.0	1.585	<5	0.49918	3.00	YES

BLE:

Antenna Type: Inverted F Antenna

Antenna Gain: -0.58dBi

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	1g SAR Exclusion threshold	SAR test exclusion
GFSK(1M)	2.402	-2.91	0.512	-2±1	-1.0	0.794	<5	0.24622	3.00	YES
	2.44	-2.99	0.502	-2±1	-1.0	0.794	<5	0.24816	3.00	YES
	2.480	-3.5	0.447	-3±1	-2.0	0.631	<5	0.19873	3.00	YES
GFSK(2M)	2.402	-2.93	0.509	-2±1	-1.0	0.794	<5	0.24622	3.00	YES
	2.44	-2.99	0.502	-2±1	-1.0	0.794	<5	0.24816	3.00	YES
	2.480	-3.46	0.451	-3±1	-2.0	0.631	<5	0.19873	3.00	YES

Conclusion:

For the max result : $0.62843 \leq 3.0$ for 1-g SAR, No SAR is required.


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