

FCC ID: EMOIBT91

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 V05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]^*$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ 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;

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz.

We used a distance 50mm to calculated

Maximum measured transmitter power:

Transmit Frequency (GHz)	Mode	Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Result calculation	1-g SAR
2.402	GFSK	0.588	0±1	1	0.3902	3.0
2.441	GFSK	-0.848	0±1	1	0.3934	3.0
2.480	GFSK	-0.313	0±1	1	0.3965	3.0
2.402	1/4π-DQPSK	-0.226	-1±1	0	0.3100	3.0
2.441	1/4π-DQPSK	-1.624	-1±1	0	0.3125	3.0
2.480	1/4π-DQPSK	-1.055	-1±1	0	0.3150	3.0
2.402	8DPSK	0.120	-0.5±1	0.5	0.3478	3.0
2.441	8DPSK	-1.272	-0.5±1	0.5	0.3506	3.0
2.480	8DPSK	-0.733	-0.5±1	0.5	0.3534	3.0

Conclusion:

For the max result : $0.3965 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

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