

FCC ID: EMOB50N

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 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(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. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.

Maximum measured transmitter power:

BT DSS:

Transmit Frequency (GHz)	Mode	peak conducted output power (dBm)	EIRP (dBm)	tune up maximum power	Result calculation	1-g SAR
2.402	GFSK	0.76	-1.170	-1	0.25	3.0
2.441	GFSK	0.76	-1.208	-1	0.25	3.0
2.480	GFSK	0.71	-1.471	-1	0.25	3.0
2.402	$\pi/4$ -DQPSK	1.25	0.966	1	0.39	3.0
2.441	$\pi/4$ -DQPSK	1.23	0.900	1	0.39	3.0
2.480	$\pi/4$ -DQPSK	1.16	0.631	1	0.40	3.0
2.402	8DPSK	1.37	1.365	2	0.49	3.0
2.441	8DPSK	1.35	1.306	2	0.49	3.0
2.480	8DPSK	1.26	1.010	2	0.50	3.0

Conclusion:

For the max result : $0.50 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

Signature:



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