

FCC ID: Z7RSTRYDEXL

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	1.791	4.881	5.95	1.22	3.0
2.441	GFSK	2.667	5.757	5.95	1.23	3.0
2.480	GFSK	2.841	5.931	5.95	1.24	3.0
2.402	$\pi/4$ -DQPSK	1.580	4.67	5.95	1.22	3.0
2.441	$\pi/4$ -DQPSK	2.445	5.535	5.95	1.23	3.0
2.480	$\pi/4$ -DQPSK	2.613	5.703	5.95	1.24	3.0
2.402	8DPSK	1.694	4.784	5.95	1.22	3.0
2.441	8DPSK	2.592	5.682	5.95	1.23	3.0
2.480	8DPSK	2.754	5.844	5.95	1.24	3.0

BT DTS:

Transmit Frequency (GHz)	Mode	peak conducted output power (dBm)	EIRP (dBm)	tune up maximum power	Result calculation	1-g SAR
2.402	GFSK	1.839	4.929	5.5	1.10	3.0
2.440	GFSK	1.121	4.211	5.5	1.11	3.0
2.480	GFSK	2.356	5.446	5.5	1.12	3.0

Conclusion:

For the max result : $1.24 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

Signature: 

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