

FCC ID: 2AB4KMTYH3693

Portable device

According to §15.247(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

$f(\text{GHz})$ 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. 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 | Max Conducted Power (dBm) | tune up maximum power(dBm) | Result calculation | 1-g SAR |
|--------------------------|------------|---------------------------|----------------------------|--------------------|---------|
| 2.402 | GFSK | 2.22 | 3.0 | 0.62 | 3 |
| 2.441 | GFSK | 1.97 | 3.0 | 0.62 | 3 |
| 2.480 | GFSK | 1.22 | 3.0 | 0.63 | 3 |
| 2.402 | pi/4-DQPSK | 2.93 | 3.0 | 0.62 | 3 |
| 2.441 | pi/4-DQPSK | 2.67 | 3.0 | 0.62 | 3 |
| 2.480 | pi/4-DQPSK | 1.93 | 3.0 | 0.63 | 3 |

Conclusion:

For the max result : $0.79 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

Signature: 

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