FCC ID: 2ADXM5B089BT

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * $[\sqrt{f(GHz)}] \le 3.0$ 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 \leq 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:

Bluetooth:

Transmit Frequency (GHz)	Mode	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up	Result calculation	1-g SAR
2.402	GFSK	2.37	2±1	3	0.6185	3
2.441	GFSK	2.08	2±1	3	0.6235	3
2.48	GFSK	2.24	2±1	3	0.6284	3
2.402	π /4-DQPSK	3.00	3±1	4	0.7786	3
2.441	π /4-DQPSK	2.66	3±1	4	0.7849	3
2.48	π /4-DQPSK	2.91	3±1	4	0.7911	3
2.402	8DPSK	3.20	3±1	4	0.7786	3
2.441	8DPSK	2.83	3±1	4	0.7849	3
2.48	8DPSK	3.14	3±1	4	0.7911	3

Conclusion:

For the max result: 0.7911≤ 3.0 for 1-g SAR extremity SAR, No SAR is required.

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