FCC ID: 2AI7PBTGP-3

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)] * [√f(GHz)] ≤ 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 ANT A:

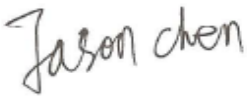
Transmit Frequency (GHz)	Mode	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up power(dBm)	Result calculation	1-g SAR
2.402	GFSK	1.30	1±1	2	0.4913	3
2.441	GFSK	**1.54**	1±1	2	0.4952	3
2.480	GFSK	0.74	1±1	2	0.4992	3
2.402	π /4-DQPSK	1.00	1±1	2	0.4913	3
2.441	π /4-DQPSK	0.98	1±1	2	0.4952	3
2.480	π /4-DQPSK	1.25	1±1	2	0.4992	3
2.402	8DPSK	1.19	1±1	2	0.4913	3
2.441	8DPSK	1.19	1±1	2	0.4952	3
2.480	8DPSK	1.43	1±1	2	**0.4992**	3

BT DSS ANT B:

Transmit Frequency (GHz)	Mode	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up power(dBm)	Result calculation	1-g SAR
2.402	GFSK	-0.41	0±1	1	0.3902	3
2.441	GFSK	-0.39	0±1	1	0.3934	3
2.480	GFSK	-0.15	0±1	1	0.3965	3
2.402	π /4-DQPSK	0.98	1±1	2	0.4913	3
2.441	π /4-DQPSK	1.00	1±1	2	0.4952	3
2.480	π /4-DQPSK	1.29	1±1	2	0.4992	3
2.402	8DPSK	1.21	1±1	2	0.4913	3
2.441	8DPSK	1.23	1±1	2	0.4952	3
2.480	8DPSK	**1.40**	1±1	2	**0.4992**	3

Conclusion:
Both of Bluetooth ANT A and Bluetooth ANT B can transmit simultaneously, the formula of calculated the RF exposure is:
the worst-case situation is 0.4992+ 0.4992=0.9984, which is less than “3”.

For the max result : 0.9984≤ 3.0 for 1-g SAR extremity SAR, No SAR is required.



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