## FCC ID: 2ABNJ-BV500

## 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  $\le 7.5$  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 power(dBm)	Result calculation	1g SAR
2.402	GFSK	-1.11	-0.5±1	0.5	0.3478	3
2.441		-0.37	-0.5±1	0.5	0.3506	3
2.48		-0.57	-0.5±1	0.5	0.3534	3
2.402	π/4-DQPSK	0.46	1±1	2	0.4913	3
2.441		1.16	1±1	2	0.4952	3
2.48		0.82	1±1	2	0.4992	3
2.402	8DPSK	0.65	1±1	2	0.4913	3
2.441		1.32	1±1	2	0.4952	3
2.48		1.03	1±1	2	0.4992	3
2.402	GFSK	0.71	1±1	2	0.4378	3
2.44		1.28	1±1	2	0.4414	3
2.48		0.94	1±1	2	0.4449	3

Conclusion:

For the max result: 0.4992≤ 3.0 for 1g SAR, No SAR is required.

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