

FCC ID:2BBVW-G30

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 SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$

- $f(\text{GHz})$ 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

When the minimum test separation distance is $<$ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Antenna Type: Wire antenna

Antenna Gain: -1dBi

BR+EDR:

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	2.09	1.618	2 \pm 1	3.0	1.995	<5	0.61847	3.00	YES
	2.441	1.56	1.432	2 \pm 1	3.0	1.995	<5	0.62347	3.00	YES
	2.480	2.1	1.622	2 \pm 1	3.0	1.995	<5	0.62843	3.00	YES
$\pi/4$ -DQPSK	2.402	4.19	2.624	4 \pm 1	5.0	3.162	<5	0.98020	3.00	YES
	2.441	4.31	2.698	4 \pm 1	5.0	3.162	<5	0.98813	3.00	YES
	2.480	4.28	2.679	4 \pm 1	5.0	3.162	<5	0.99599	3.00	YES
8DPSK	2.402	5.16	3.281	5 \pm 1	6.0	3.981	<5	1.23400	3.00	YES
	2.441	4.87	3.069	5 \pm 1	6.0	3.981	<5	1.24398	3.00	YES
	2.480	4.82	3.034	5 \pm 1	6.0	3.981	<5	1.25388	3.00	YES

BLE

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	1g SAR Exclusion threshold	SAR test exclusion
BLE 1M	2.402	6.14	4.111	6 \pm 1	7.0	5.012	<5	1.55352	3.00	YES
	2.44	6.16	4.130	6 \pm 1	7.0	5.012	<5	1.56576	3.00	YES
	2.480	6.04	4.018	6 \pm 1	7.0	5.012	<5	1.57854	3.00	YES
BLE 2M	2.402	6.69	4.667	6 \pm 1	7.0	5.012	<5	1.55352	3.00	YES
	2.44	5.96	3.945	6 \pm 1	7.0	5.012	<5	1.56576	3.00	YES
	2.480	5.89	3.882	6 \pm 1	7.0	5.012	<5	1.57854	3.00	YES

Conclusion:

For the max result : $1.57854 \leq 3.0$ for 1-g SAR, No SAR is required.



Signature:

Date: 2023-07-04

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