

**FCC ID:2AKW9HG01**

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:

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

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

BT:

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	0.690	1.17	0 $\pm$ 1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	0.450	1.11	0 $\pm$ 1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	0.553	1.14	0 $\pm$ 1	1.00	1.26	<5	0.39651	3.00	YES
$\pi/4$ -DQPSK	2.402	0.301	1.07	0 $\pm$ 1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	-0.138	0.97	0 $\pm$ 1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	0.596	1.15	0 $\pm$ 1	1.00	1.26	<5	0.39651	3.00	YES
8DPSK	2.402	0.425	1.10	0 $\pm$ 1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	0.085	1.02	0 $\pm$ 1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-0.349	0.92	0 $\pm$ 1	1.00	1.26	<5	0.39651	3.00	YES

BLE:

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-2.679	0.54	-3 $\pm$ 1	-2.00	0.63	<5	0.19558	3.00	YES
	2.440	-3.004	0.50	-3 $\pm$ 1	-2.00	0.63	<5	0.19712	3.00	YES
	2.480	-3.146	0.48	-3 $\pm$ 1	-2.00	0.63	<5	0.19873	3.00	YES

simultaneous emission

Power density Limits BT	Power density Limits BLE	Calculate Evaluation result	Power density Limits
0.39651	0.19873	0.59524	3

### Conclusion:

For the max result :  $0.59524\text{W/Kg} \leq 3.0$  for 1g SAR, No SAR is required.

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Signature:

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