

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 ≤ 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 ≤ 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.

Bluetooth DTS:

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	-0.55	0.88	0 $\pm$ 1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	1.63	1.46	1 $\pm$ 1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	1.62	1.45	1 $\pm$ 1	2.00	1.58	<5	0.49918	3.00	YES

Bluetooth DSS:

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	5.72	3.73	6 $\pm$ 1	7	5.01	<5	1.55352	3.00	YES
	2.441	6.06	4.04	6 $\pm$ 1	7	5.01	<5	1.56608	3.00	YES
	2.480	5.93	3.92	6 $\pm$ 1	7	5.01	<5	1.57854	3.00	YES
$\pi/4$ -DQPSK	2.402	5.39	3.46	5 $\pm$ 1	6	3.98	<5	1.23400	3.00	YES
	2.441	5.53	3.57	5 $\pm$ 1	6	3.98	<5	1.24398	3.00	YES
	2.480	5.46	3.52	5 $\pm$ 1	6	3.98	<5	1.25388	3.00	YES
8DPSK	2.402	5.3	3.39	6 $\pm$ 1	7	5.01	<5	1.55352	3.00	YES
	2.441	6.1	4.07	6 $\pm$ 1	7	5.01	<5	1.56608	3.00	YES
	2.480	5.86	3.85	6 $\pm$ 1	7	5.01	<5	1.57854	3.00	YES

Conclusion:

For the max result : $1.57854 \leq \text{FCC Limit } 3.0$ for 1g SAR.

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Signature:

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