

FCC ID:2AOGIZWA060

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.

ZIGBEE:

Operation Frequency: 2405-2480MHz

Antenna Type: Built-in Antenna

antenna gain: 2.36dBi;

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
zigbee	2.405	4.47	2.80	4.5±1	5.5	3.55	<5	1.10049	3.00	YES
	2.440	3.64	2.31	4±1	5	3.16	<5	0.98793	3.00	YES
	2.480	4	2.51	4±1	5	3.16	<5	0.99599	3.00	YES

SRD

Operation Frequency: 908.4-920MHz

Max Transmit power:

Frequency (MHz)	EIRP power (dBuV/m)	EIRP power (dBm)
920	90.03	-5.23

$$\text{EIRP} = \text{E} - 104.8 + 20 \log(D)$$

EIRP=conducted power + antenna gain

antenna gain: 1.57dBi;

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	0.920	-6.8	0.21	-6.5±1	-5.5	0.28	<5	0.05407	3.00	YES

Conclusion:

For the max result : $1.10049 \leq 3.0$ for 1g SAR, SAR is not required.

For the max result : $0.05407 \leq 3.0$ for 1g SAR, SAR is not required.

Signature:

Date: 2024-12-10



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