FCC ID:2A2W8-594733

Portable device

According to §15.249 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:

[(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 ≤ 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

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

Antenna Type: PCB Antenna Antenna Gain:0 dBi

Transmit power:

Frequency		EIRP power	EIRP power	EIRP power		
(MHz)		(dBuV/m)	(dBm)	(mW)		
240	7	86.39	-8.87	0.13		
244	8	84.63	-10.63	0.09		
245	9	85.87	-9.39	0.12		

EIRP=E-104.8+20log(D)

Maximum Permissible Exposure:

Modulation		Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	1g SAR Exclusion threshold	SAR test exclusion
FSK	2.407	-8.87	0.130	-8±1	-7.0	0.200	<5	0.062	3.00	YES
	2.448	-10.63	0.086	-10±1	-9.0	0.126	<5	0.039	3.00	YES
	2.459	-9.39	0.115	-9±1	-8.0	0.158	<5	0.050	3.00	YES

Conclusion:

For the max result: 0.062≤ 3.0 for 1-g SAR, No SAR is required.

Signature: Date: 2024-07-12

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