FCC ID:2BMTY-GM9209

RF exposure evaluation

§ 2.1093 Radiofrequency radiation exposure evaluation: Portable Devices.

According to § 15.247(i) and § 1.1307b(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 guidance.

The 1-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)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g 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
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.
- The result is rounded to one decimal place for comparison
- · GFSK

Modulation	Frequency (GHz)	Max.	Max. Tune	Max. Tune	Test		exclusion
		Power	up Power	up Power	distance	Result	thresholds
		(dBm)	(dBm)	(mW)	(mm)		for 1-g SAR
8DPSK	2.441	1.97	2	1.58	5	0.50	3.0

Conclusion:

For the max result: 0.50 ≤ FCC Limit 3.0 for 1g SAR.