FCC ID: 2ATQ9-W2

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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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
π / 4 DQPSK	2.402	-0.33	0.0	1.00	5	0.31	3.0
GFSK 1Mbps	2.402	-2.62	-2.5	0.56	5	0.17	3.0