

FCC ID: 2AZMH-FD33103

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.

KDB: 447498 D01 General RF Exposure Guidance v06

The 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g 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
- 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

Modulation	Frequency (MHz)	Max. Power (dBuV/m)	Max. Power (dBm)	Tune up Power (dBm)	Tune up Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
ASK	433.92	68.99	-30.91	-30.00	0.00100	5	0.00013	3.0

Note:

dBm=dBuV/m-95.2-4.7