

RF Exposure

Applicant: Johnson Outdoors

Model Name: MICRO REMOTE (iPilot Micro Remote)

From KDB 447498 D01 v05:

The 1-g 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 calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

$$f(\text{GHz}) = 2.462$$

$$\text{Power} = 6.00 \text{ mW}$$

Minimum separation distance = 5.00 mm (device is handheld and transmitting antenna can be less than 5 mm, so the 5 mm minimum was used)

$$[6.00 \text{ mW}] / [5.00 \text{ mm}] \cdot [\sqrt{2.462}] = 1.89 \quad \text{Limit} = 3.0$$

6.00 mW was taken from test report R20140520-20

*Note: minimum separation distance was defined as the closest point from the transmitting antenna to human tissue. It is assumed that the user could hold the remote from any point on the outside case.