

RF Exposure and Transmitter Power Considerations for the Sensor US

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Standalone SAR test exclusion considerations are defined in KDB 447498D01 (v06) Chapter 4.3.1 where the 1-g head or body and 10-g extremity SAR exclusion threshold is defined by the following formula:

[(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

- 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 •

For the Sensor US, the maximum conducted output power is 0 dBm (1mW).

Applying the above data using the given KDB 447498 D01 formula, and minimum separation distance of 5mm, the following results:

 $(1mW / 5 mm) \times \sqrt{0.928GHz} = 0.2$ (i.e.: ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR)

This demonstrates the Sensor US meets the criteria for 1-g head/ body and 10-g extremity SAR test exemption.

Conclusion

The Sensor US is exempt from SAR testing and can be used for Portable applications.

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