

§ 15.247(i) Maximum Permissible Exposure

RF Exposure Requirements: §1.1307(b)(1) and §1.1307(b)(2): 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 levels in excess of the Commission's guidelines.

RF Radiation Exposure Limit: §1.1310: As specified in this section, the Maximum Permissible Exposure (MPE) Limit shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in Sec. 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of Sec. 2.1093 of this chapter.

EUT's operating frequencies @ 2400-2483.5 MHz.

Based on KDB 447498 4.3.1(1) for Standalone SAR exclusion:

$$(\text{Max. Power (mW)} / \text{Min. Test separation distance (mm)}) * \sqrt{\text{Frequency (GHz)}} \leq 3$$

Max Output Power = 4.96 dBm (3.13 mW)

Minimum test separation distance = 5mm (per KDB use 5mm for distances less than 5mm)

$$\{3.13 \text{ mW} / 5 \text{ mm}\} * \sqrt{2.480 \text{ GHz}} \leq 3$$
$$0.986 \leq 3$$

Based on this calculation the module is exempt from SAR testing in all portable host applications where there are no other transmitters in the host (i.e. Standalone applications) AND when the module is not co-located with other transmitters.