
FCC §15.407 (f) & §2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance v05

Result

According to FCC KDB 447498 D01 General RF Exposure Guidance v05 generic portable criteria

The distance between antenna and test point is 5 mm.

The max conducted output power is 5.59 dBm (3.622 mW) for band: 5725-5825 MHz and 5.55 dBm (3.589 mW) for band: 5150-5250 MHz.

The antenna gain is 0 dBi.

So the max output power (EIRP) is 5.59 dBm (3.622 mW) for band: 5725-5825 MHz and 5.55 dBm (3.589 mW) for band: 5150-5250 MHz.

According to the Appendix A of KDB 447498, the exclusion thresholds for 5200 MHz is 7 mW and for 5800 MHz is 6 mW.

Conclusion:

The time-averaged output power is $3.622\text{mW} < \text{the exclusion thresholds } 6\text{ mW}$ for band 5725-5825 MHz, and $3.589\text{mW} < \text{the exclusion thresholds } 7\text{ mW}$ for band 5150-5250 MHz, so stand-alone SAR evaluation is not required.