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

Applicable Standard

According to FCC §15.407(f) 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, 1) c), unless excluded by specific FCC test procedures, portable device with output power $> 60/f_{\text{(GHz)}} \text{ mW}$ shall include SAR data for equipment approval.

Result:

Max Peak output power, Antenna Gain: 2.0 dBi

$\text{EIRP} = 7.76 \text{ dBm} + 2\text{dBi} = 9.76 \text{ dBm} = 9.46 \text{ mW}$

$60/f_{\text{GHz}} = 60/5.190 = 11.56 \text{ mW}$

$\text{Peak EIRP} < 60/f_{\text{(GHz)}}$

SAR evaluation can be exempted.