



LS RESEARCH
Wireless Product Development

Exemption from SAR evaluation

Medtronic ENS
FCC: LF53531

FCC OET KDB 447498 states that unlicensed intentional radiators that meet the output power requirements as stated in section 2(a)(i) may be used in a portable exposure condition with no restrictions on host platform.

Output Power Evaluation.

Evaluation Frequency = 2480MHz

Device Operation separation distance: ≤20cm

Maximum Effective Isotropic Radiated Power (dBm) = 6.1 dBm + 2.2dBi = 8.3dBm

Maximum Effective Isotropic Radiated Power (mW) = $\log^{-1}(\text{EIRP}(\text{dBm})/10)$ = 6.76mW

Section 2(a)(i) general public use limit:

$P_{\text{out}} \leq 60/f(\text{GHz})$

Limit = $60/2.48 =$ 24.2mW

Conclusion:

Since the maximum effective isotropic radiated power (EIRP) is less than the applicable limit of 24.2mW, the Product is exempt from SAR Evaluation.