

## D8111W MPE calculation

Maximum Power output: 2442MHz: 13.9dBm

Max Antenna gain,: 2.0 dBi

To determine the overall exposure at 20 cm from the EUT:

$$S = \frac{PG}{4\pi R^2}$$

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

P=24.5 mW

G=1.585

R=20 cm

Total exposure at 20cm: 0.00774 mW.cm<sup>2</sup>

FCC Limit: 1.0 mW/cm<sup>2</sup>