

Device has a cellular module with FCC ID: XPY1CGM5NNN, however there is no simultaneous transmission of BLE and cellular signals
The following calculation addresses the MPE estimation for the BLE only.

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

where: 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

Maximum peak output power at the antenna terminal:	<u>5.74</u>	(dBm)
Maximum peak output power at the antenna terminal:	<u>3.749730022</u>	(mW)
Antenna gain(typical):	<u>6.25</u>	(dBi)
Maximum antenna gain:	<u>4.216965034</u>	(numeric)
Prediction distance:	<u>20</u>	(cm)
Prediction frequency:	<u>2402</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u>	(mW/cm^2)

Power density at prediction frequency: **0.003146** (mW/cm^2)