

Radiofrequency radiation exposure evaluation: mobile devices

MPE PREDICTION

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density

P = power input to 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, R=0.2m

a) EUT RF Exposure Evaluation operations, Worst Case mode

Mode	Tune up Produce power (dBm)	Maximum peak output power (dBm)	Output power to antenna (mW)	Antenna Gain (numeric)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
WIFI	13±1	14	25.1	1.8(2.54dBi)	0.008991	1	Pass
BLE	2±1	3	2	1.8(2.54dBi)	0.000716	1	Pass