SAR evaluation

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MPE Calculation Method

E (V/m) = (30*P*G)^{0.5}/d

Power Density: Pd (W/m2) = E^2/377

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

Pd = (30*P*G) / (377*d^2)

From the peak EUT RF output power, the minimum mobile separation distance,

d=0 .2m, as well as the gain of the used antenna, the RF power density can

be obtained .
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Calculated Result and Limit (WORSE CASE IS AS BELOW)

Directional antennaGain (Numeric)	Peak Output Power (mW)	Power Density (s) (mW/cm²)	Limit of Power Density (s) (mW/cm²)	Test Result
-2.23dBi(0.598)	20.1002 (802.11b 13.032dBm)	0.00239	1	Compiles
-2.23dBi(0.598)	1.6448 (BLE 2.161dBm)	0.0002	1	Compiles