## 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

u-u.lm, as well as the gain of the used antenna, the KF power dens be obtained.

Calculated Result and Limit (WORSE CASE IS AS BELOW)

Antenna Gain	Peak Output	Power Density	Limit of Power	Test
(Numeric)	Power (mW)	(S) (mW/cm2)	Density (S) (mW/cm2)	Result
1.585 (2dBi)	14.93 mW (11.74 dBm)	0.005	1	Compiles