

## Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

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Page: 1 of 1

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## **RF Exposure Compliance Requirement**

Calculation formula:

E (V/m) = (30\*P\*G) 0.5/d

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between EUT and antenna (m)

Remark: E(V/m)= $10^{X (dBUV/m)/20} \times 10^{-6}$ 

 $P=(E*d)^2/30G$ 

in the formula above, d=3m, field strength= 88dBuV/m (max described by client), G=1.70 (Antenna gain=2.3dBi) so P=mW

In KDB 447498 D01 v06: 4.3.1 Standalone SAR test exclusion considerations:

## The SAR Test Exclusion Threshold is calculated from:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR.

The worst case test separation distance is 5mm.

The product belongs to **standalone portable device** base the FCC rule part 2.1091&2.1093. The transmission frequencies of the device are between 100 MHz and 6 GHz.

The ERP and SAR Test Exclusion Threshold (mW) are listed below:

Output power	SAR Test Exclusion
(mW)	Threshold (mW)
0.111	6.22