

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

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FCC ID: 2AMGX-RK-M170SA

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=92dBuV/m(max describe by client), G=1 so P=0.48mW

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)
0.48	9.52

According to SAR Exclusion Threshold in KDB 447498 (D01) General RF Exposure Guidance v06, the SAR report is not required.