



MAX LIGHT

MEASUREMENT REPORT

Maximum Permissible Exposure

EUT : Compex Wireless-G Network Mini-PCI Adapter

Applicant : Compex Inc.
840 Columbia Street, Suite B, Brea,
CA92821, USA

Manufacturer : Compex Inc.
840 Columbia Street, Suite B, Brea,
CA92821, USA

Model No : iWavePort WLM54G 1A / iWavePort WLM54G 1B

FCC ID : M8KCPX-05-WLM54G

Basis of Calculations:

$$E^2/3770 = S, \text{ mW/cm}^2$$

$$E, \text{ V/m} = (P_{\text{watts}} \cdot G_{\text{gain}} \cdot 30)^{0.5} / d, \text{ meters}$$

$$d = ((P_{\text{watts}} \cdot G \cdot 30) / 3770 \cdot S)^{0.5} \quad P_{\text{watts}} \cdot G_{\text{gain}} = 10^{(P_{\text{dBm}} - 30 + G_{\text{dBi}}) / 10}$$

Test Result:

Max RF Power (dBm)	TX Antenna Gain (dBi)	Testing Result (mW/cm ²)	MPE Limit (mW/cm ²)
14.58	1.8	0.00864	1
Max RF Power (dBm)	TX Antenna Gain (dBi)	EIRP (mW)	Max Peak Power
14.58	1.8	4.34mW	24.69mW

NOTE: For mobile or fixed location transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

The portable device's the peak conducted output power or max EIRP is less than $60/2.43=24.69\text{mW}$.