

Equipment Model Number: DKN-L37



Acc. RSS-102 Issue 4 Chapter 2.5.2:

Exemption from Routine Evaluation Limits – RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- **below 1.5 GHz and the maximum e.i.r.p. of the device is equal to or less than 2.5 W;**
- **at or above 1.5 GHz and the maximum e.i.r.p. of the device is equal to or less than 5 W.**

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

Prediction of MPE limit at given distance

$$S = PG / 4\pi R^2$$

where: S = Power density

P = Power input to the antenna (including tolerance of tune up procedure of +0.5 dB)

G = Antenna gain

R = Distance to the center of radiation of the antenna

The table below is excerpted from Table 1B of 47 CFR 1.1310 titled "Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure"

Frequency Range (MHz)	Power Density (mW/cm ²)	Averaging Time (minutes)
300 -1500	f/1500	30
1500 - 100000	1.0	30

where f = Frequency (MHz)

Prediction: WLAN 5 GHz

P Max power input to the antenna: 11.58 dBm / 14.39 mW

R Distance: 20 cm

S MPE limit for uncontrolled exposure: 1 mW/cm²

G Antenna gain: 1.62 numerical

Calculated Power density: 0.02 mW/cm²

This prediction demonstrates the following:

The power density levels at a distance of 20 cm are below the maximum levels allowed by FCC regulations.

The radiated power is below the maximum level allowed by IC regulations.

Signature:

Date: 2014-06-12

NAME (Please print or type):

Dipl.-Ing. (FH) Stefan Bös

TITLE (Please print or type):

Senior Testing Manager

COMPANY (Please print or type):

Cetecom ICT Services GmbH