

## Statement on exposure to electromagnetic fields

### Equipment

Device:	Wi-Fi Tag
Trade Mark	Ekahau
Model/Type reference	T301-B
Manufacturer	Ekahau, Inc

### Directive

OET Bulletin 65, supplement C

### Calculations

The measured conducted power for the equipment is 140 mW. Maximum antenna gain is 0 dBi. According to manufacturer maximum duty cycle averaged over 30 min period is 1%. The manual recommends that the device may not be used closer than 0.9 cm from the operator.

A worst case calculation is as follows:

$$S = \frac{4 * dc * EIRP}{4 * \pi * r^2} \quad (\text{Power density with 100\% reflection})$$

$$S = \frac{4 * 0.1 * 140}{4 * \pi * 0.9^2} = 0.550 \frac{mW}{cm^2}$$

Reference limit according to OET Bulletin 65 supplement C for power density at 2400MHz is 1 mW/cm<sup>2</sup>.

Considering the calculations above it is determined that the requirements according to the referred directive is fulfilled without testing.

Hyvinkää, 25 August 2008



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