

Calculation: RF-Exposure for 903 ~ 927.5 MHz Transmitter

FCC ID: XUS-TVPAP1

Type of Device: TrackView Pro Access Point

In accordance with CFR47, §1.1310 Radiofrequency radiation exposure limits

- ☐ 447498 D04 Interim General RF Exposure Guidance v01
- S: Limit for power density according to Table 1 to § 1.1310(e)(1)
 - ☐ (i) Occupational / Controlled Exposure
 - ☑ (ii) General Population / Uncontrolled Exposure

(calculated for lowest frequency 903 MHz with formula:

 $f/1500 \sim 0,602 \text{ mW/cm}^2$

- P: **11,2 mW** (max conducted output power leading to highest radiated power)
- G: **0.068** (numeric gain based on measured antenna gain -13.8 dBd)
- D: Duty cycle: 1 (100%)
- R: Distance in what the limit of S must be reached: 20 cm (refer also to the manufacturers installation / user manual)

$$S = \frac{P \cdot G \cdot D}{4 \cdot \pi \cdot R^2} \Rightarrow \underline{S} = \frac{11,2 \ mW \cdot 0.068 \cdot 1}{4 \cdot \pi \cdot (20 \ cm)^2} = \mathbf{0,00015} \frac{mW}{cm^2}$$

Conclusion: The value of the calculated power density at the recommended minimum separation distance of 20cm is well below the applicable limit.