

Exhibit 11 - RF Exposure Information

The Recco Detector R99 is a portable device. Hence, MPE limit evaluation is not applicable. The SAR test exclusion threshold has been evaluated and it is found that due to low output power the detector falls below the threshold. See details below.

SAR Test Exclusion Threshold evaluation

Evaluation of SAR test exclusion according to “447498 D01 General RF Exposure Guidance v06 (2015-10-23)-2.pdf”, section 4.3.1 “Standalone SAR exclusion considerations”.

The Recco detector is a handheld device. The detector is held with one hand and the minimum distance to the radiating structure is 70 mm. The output power feed to the antenna is tuned at manufacture site. The maximum allowed peak power, including tolerances, is 36.0 dBm. Due to 20 % duty cycle (−7 dB), and 100% AM modulation of a continuous sine wave (−3 dB), the maximum average output power feed to the antenna is 26.0 dBm, or 0.4 W.

The maximum allowed power for 10-g extremity at 70 mm for 902.85 MHz is given in In section 4.3.1(a) and 4.3.1(b) as:

$$P_{50\text{mm}} = 7.5 \frac{50}{\sqrt{f_{\text{GHz}}}} \quad [\text{mW}] \quad (1)$$

and

$$P_{\text{max}}(d_{\text{mm}}) = P_{50\text{mm}} + (d_{\text{mm}} - 50) \frac{f_{\text{MHz}}}{150} \quad [\text{mW}] \quad (2)$$

Evaluating eq. (1) and eq. (2) at $f_{\text{GHz}} = 0.90285$, give the thresholds: $P_{50\text{mm}} = 395 \text{ mW}$ and $P_{70\text{mm}} = 515 \text{ mW}$.

It is found that the maximum average output power feed to the antenna is below the SAR Test Exclusion Threshold.