

15 MAXIMUM PERMISSIBLE EXPOSURE (MPE), §15.247(i)

The device was considered portable equipment as the transceiver could be used within 20 cm of a person. The following SAR exclusion calculation from KDB 447498 D01 was applied:

$$\left[\frac{(\text{Max. power, mW})}{(\text{min. separation, mm})} \right] \times [\sqrt{f_{\text{GHz}}}]$$
$$\leq 3.0 \text{ (for 1g SAR) and } \leq 7.5 \text{ (for 10g extremity SAR)}$$

Maximum conducted power, including tune up = 1 mW

Minimum separation distance = 5 mm

Operating frequency = 2.40 to 2.48 GHz

$$\left[\frac{(1 \text{ mW})}{(5 \text{ mm})} \right] \times [\sqrt{(2.48)}] = 0.3$$

Conclusion: The NUROCHEK-I Bluetooth transceiver complied with the maximum permissible exposure requirements at any separation distance without further measurement.

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