

4.6. Maximum Permissible Exposure MPE and Specific Absorption Rate SAR

Prüfgrundlage [test bases]: FCC Part 1.1307 ... 1.1311

FCC Part 2.1091, 2.1093 FCC Part 15.247 (b) (4) FCC Part 15.247 (i) Industry Canada RSS-102 Health Canada Safety Code 6

Max Permissible Exposure MPE

EIRP = P * G 1 dBm = 1,26mW (measured, Testreport Chapter 4.4)

P = Peak outp. power (mW)

G = Antenna Gain (num.) 2,12 dBm = 1,629mW (worst case, BTm_Part1.pdf page 2)

Frequency 2,45GHz (> 1,5GHz)

Max allowable Power Density W_{Limit} 1,0 mW / cm² (General Population, Uncontrolled Exposure)

Minimum/Safe Distance $r_{min} = [EIRP/(4 * Pi * W_{Limit})]^{0.5} = 0.32cm$ (measured) = 0.36cm (worst case)

Specific Absorption Rate SAR

The tested terminal Braille TRIO is a so called mobile device, distance between this device and any human body is > 20cm. Evaluation therefore is not requested for distances > 20cm.