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Appendix 6

RF Exposure Information

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Antenna Type: Permanent external antenna

Antenna Gain: 0 dBi

Nominal rated field strength: 66.8dB μ V/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 69.8dB μ V/m at 3m in frequency 27.145MHz, thus

$$\text{EIRP} = [(FS^*D)^2 * 1000 / 30] = 0.00286\text{mW}$$

$$\begin{aligned}\text{Conducted power} &= \text{Radiated Power (EIRP)} - \text{Antenna Gain} \\ &= 0.00286\text{mW}.\end{aligned}$$

The SAR Exclusion Threshold Level for 27.145MHz when the minimum test separation distance is < 50mm:
= $[474 * (1 + \log_{10}(100/f(\text{MHz})))]/2$
= 371.2mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.