Errata

In the published article [IV], in section IIB, the equation (14)

$$\sigma_1 = \frac{\lambda^2 G_A^2}{4\pi} \frac{16}{\pi^2} \frac{R_A^2 \Delta X^2}{(R^2 + X^2 + \Delta X^2)^2 + 4R^2 X^2},$$

should stand

$$\sigma_1 = \frac{\lambda^2 G_A^2}{4\pi} \frac{16}{\pi^2} \frac{R_A^2 \Delta X^2}{(R^2 - X^2 + \Delta X^2)^2 + 4R^2 X^2}.$$

In the published article [II], in section IIA, the equation (8)

$$P_{rx} = \sigma^m \frac{\lambda^2 G_{tx} P_{tx} G_{rx}}{(4\pi)^2 d^4}, \tag{5.1}$$

should stand

$$P_{rx} = \sigma^m \frac{\lambda^2 G_{tx} P_{tx} G_{rx}}{(4\pi)^3 d^4}. \tag{5.2}$$

This affects the Figures 4 – 6 in section IIB. The minor change in the Figures does not affect the analysis or the conclusion of the paper. The corrected Figures are printed here.
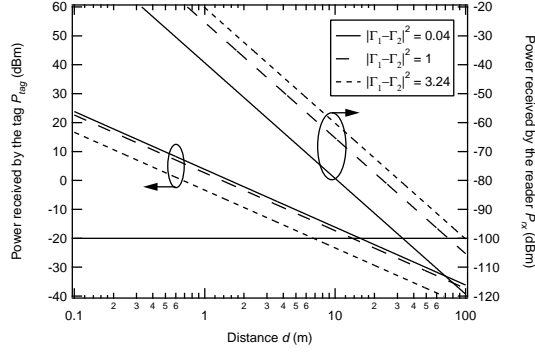
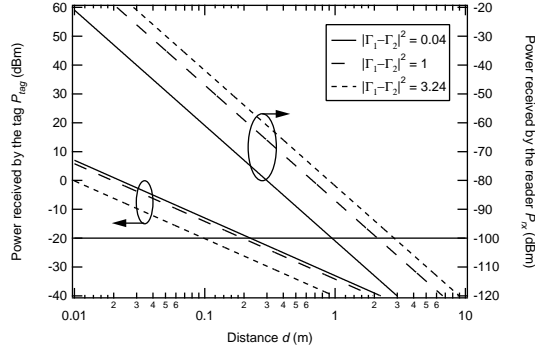*Figure 4. The limiting factors on the UHF RFID range.*

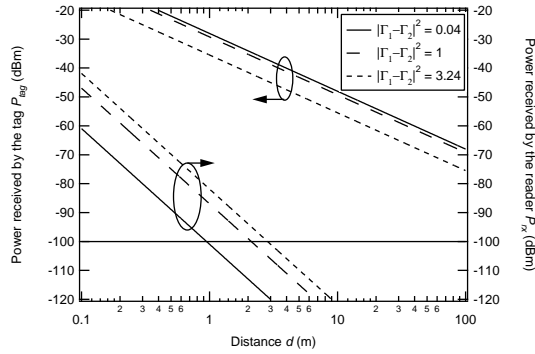*Figure 5. The limiting factors on the passive MMID range at 60 GHz.*

Figure 6. The limiting factors on the semipassive MMID range at 60 GHz.