

Errata

Publication II

The second paragraph in Section III of the publication contains an error. The effect of in-band distortion (EVM) cannot be captured in the proposed method. The numerical examples in presented in the publication are not affected by the error as the noise floor N_o was selected such that it dominates over the in-band distortion. The level of the in-band distortion was roughly -25 dBc, while the noise floor was at minimum set to -21 dBc. The paragraph should read as follows:

Let us assume the objective is to maximize the in-band capacity assuming a certain SNR at the receiver, g is chosen as

$$g(S_x(f)) = - \int_0^1 \log_2 \left(1 + \frac{h(f)S_x(f)}{N_o} \right) df, \quad (7)$$

where $h(f)$ is the channel gain at frequency f and N_o is the receiver noise floor. Here we have assumed, without loss of generality, that the wanted signal is at the frequency band $f \in [0, 1]$.

In addition, the frequency range of $[-3.375, -2.935]$ MHz in the caption of Figure 4 is given wrong, and should read $[-6.75, -5.85]$ MHz.