

$$M_4 = P = -84,85 \text{ dBm} \rightarrow 1,4691 \times 10^{-11} \text{ W}$$

$$M_3 = P = -88,70 \text{ dBm} \rightarrow 1,079 \times 10^{-11} \text{ W}$$

$$M_2 = P = -97,54 \text{ dBm} \rightarrow 1,4095 \times 10^{-12} \text{ W}$$

$$M_1 = P = -100,90 \text{ dBm} \rightarrow 6,5026 \times 10^{-13} \text{ W}$$

$$P_T = 2,754096 \times 10^{-11} \text{ W}$$

$$-120 - 10 \log\left(\frac{100 \text{ Hz}}{1}\right) = -140 \text{ Hz}$$

$$P_N = -140 + 10 \log(500 \text{ kHz})$$

$$P_N = -83,01 \text{ dBm} \rightarrow 5,00 \times 10^{-12} \text{ W}$$

$$\text{SNR} = 10 \log\left(\frac{P_s}{P_N}\right) \rightarrow \text{SNR} = 10 \log\left(\frac{2,754096 \times 10^{-11}}{5 \times 10^{-12}}\right)$$

$$\text{SNR} = 7,41 \text{ dB}$$