Eqn k_dB = -15 Eqn k = 10**(k_dB / 20) Eqn gamma = k Eqn beta = -j * sqrt(1 - k**2)

Eqn S_theoretical = {{0, beta, 0, gamma}, {beta, 0, gamma, 0}, {0, gamma, 0, beta}, {gamma, 0, beta, 0}}

S_theoretical(1, 1)	S_theoretical(2, 1)	S_theoretical(3, 1)	S_theoretical(4, 1)
<-infinity> / 0.000	-0.140 / -90.000	<-infinity> / 0.000	-15.000 / 0.000