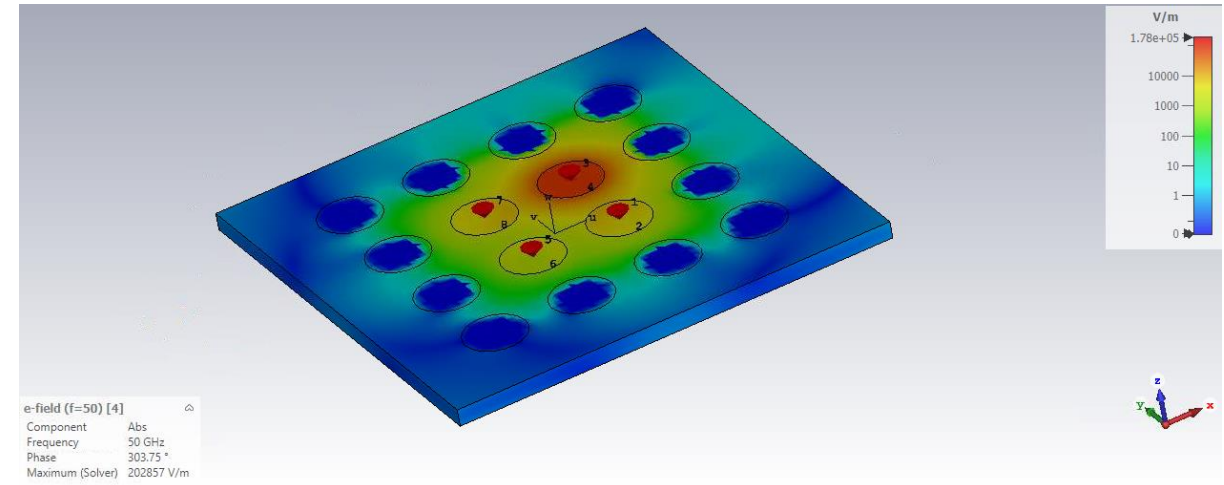




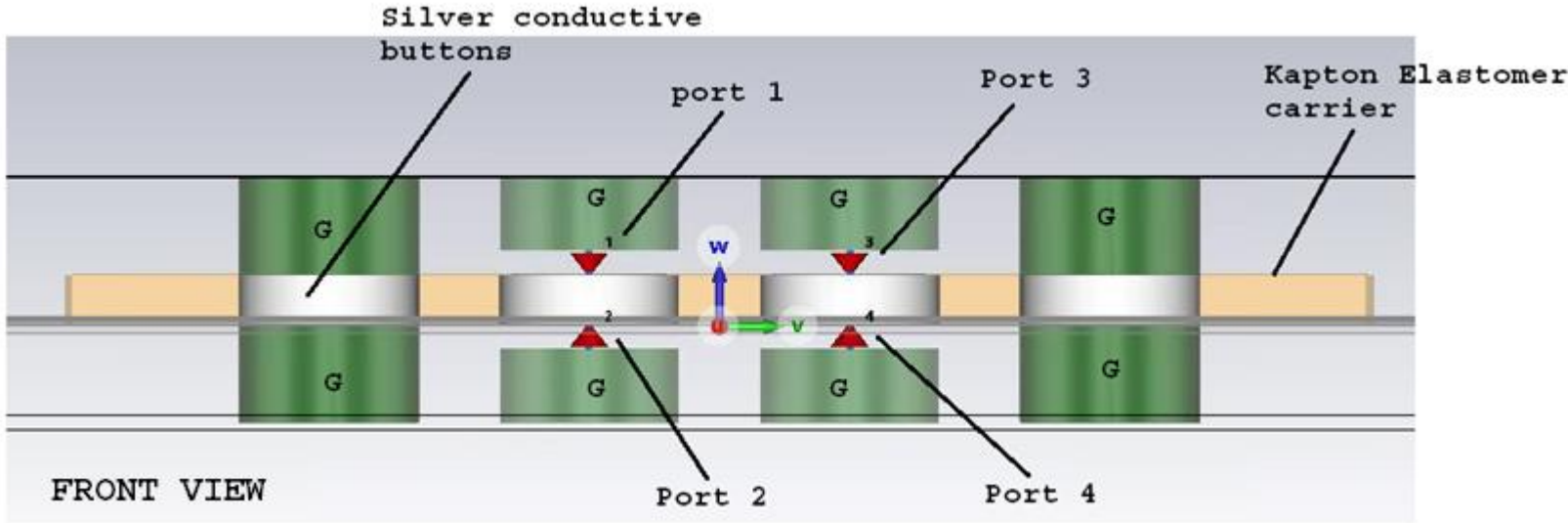
Ironwood Electronics, Inc.

S-parameter simulation for 0.8mm pitch GT elastomer
G-S-S-G Configuration (8 ports)

Software: CST MWS



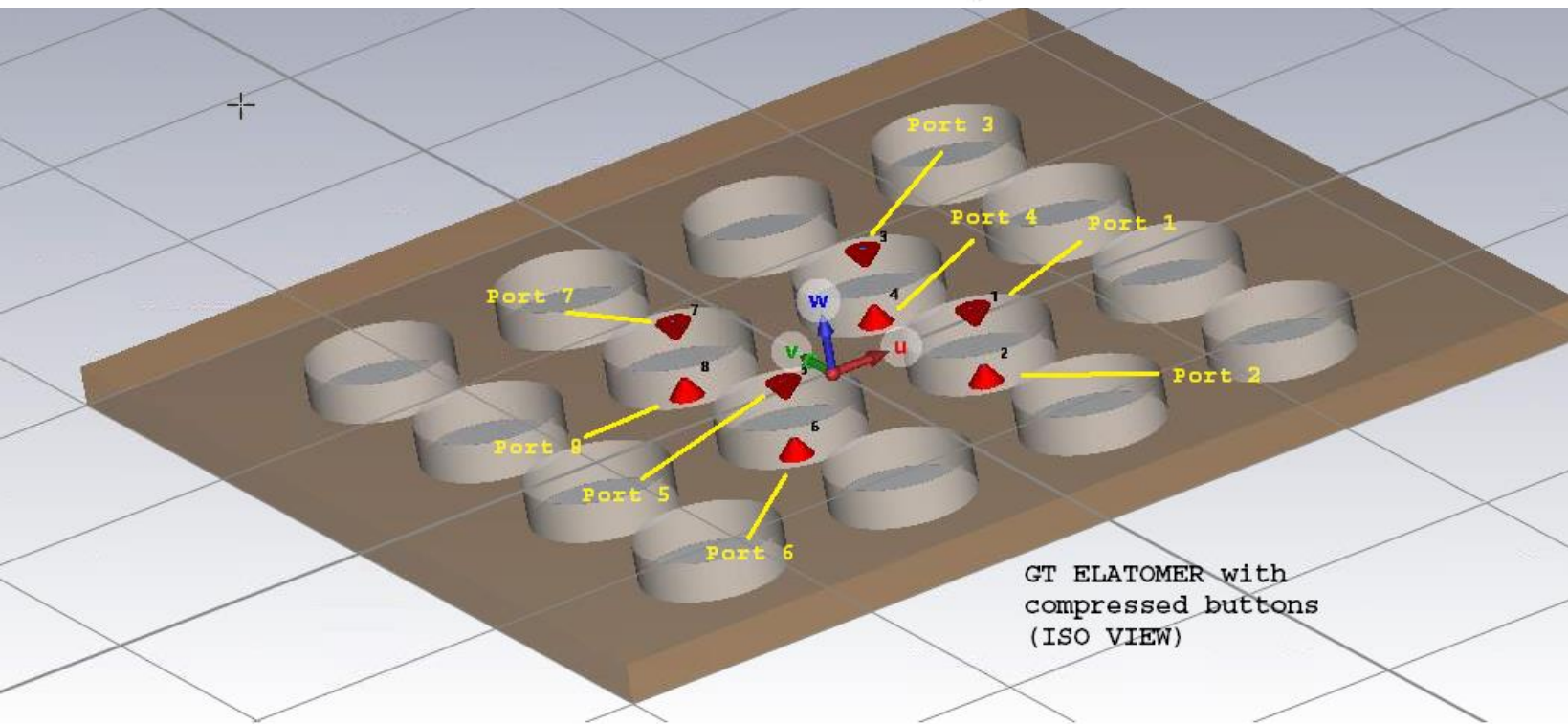
Port mapping



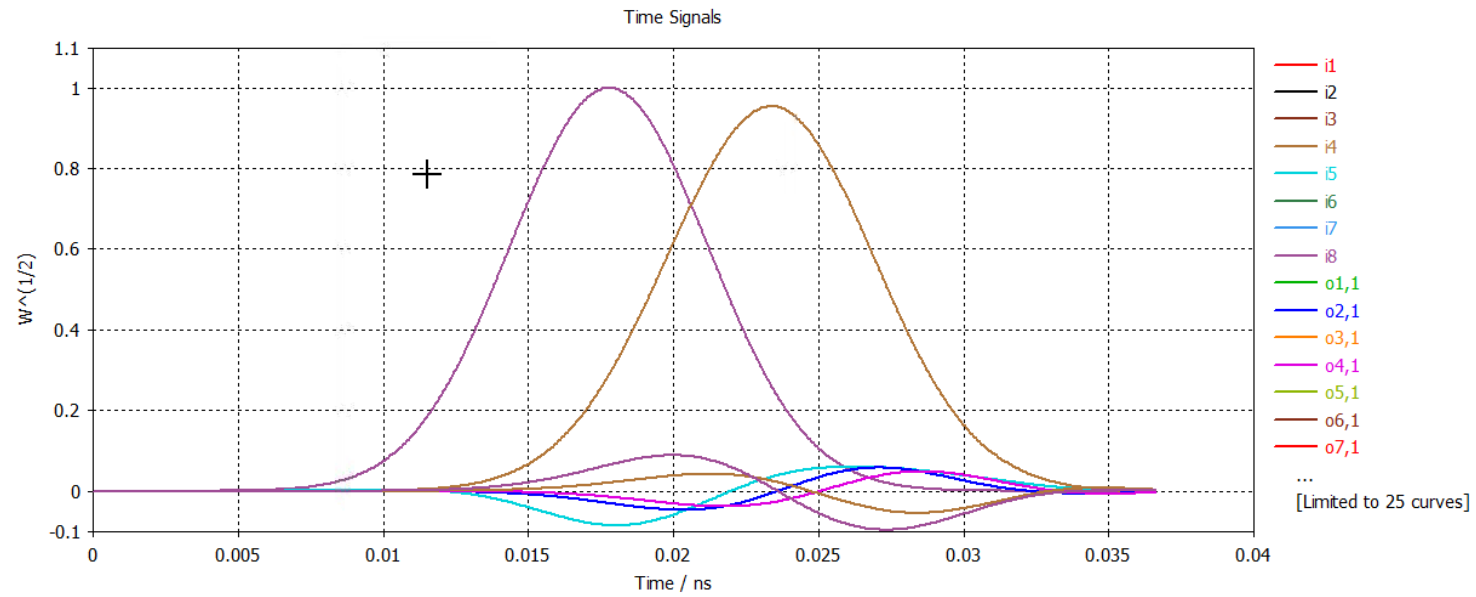
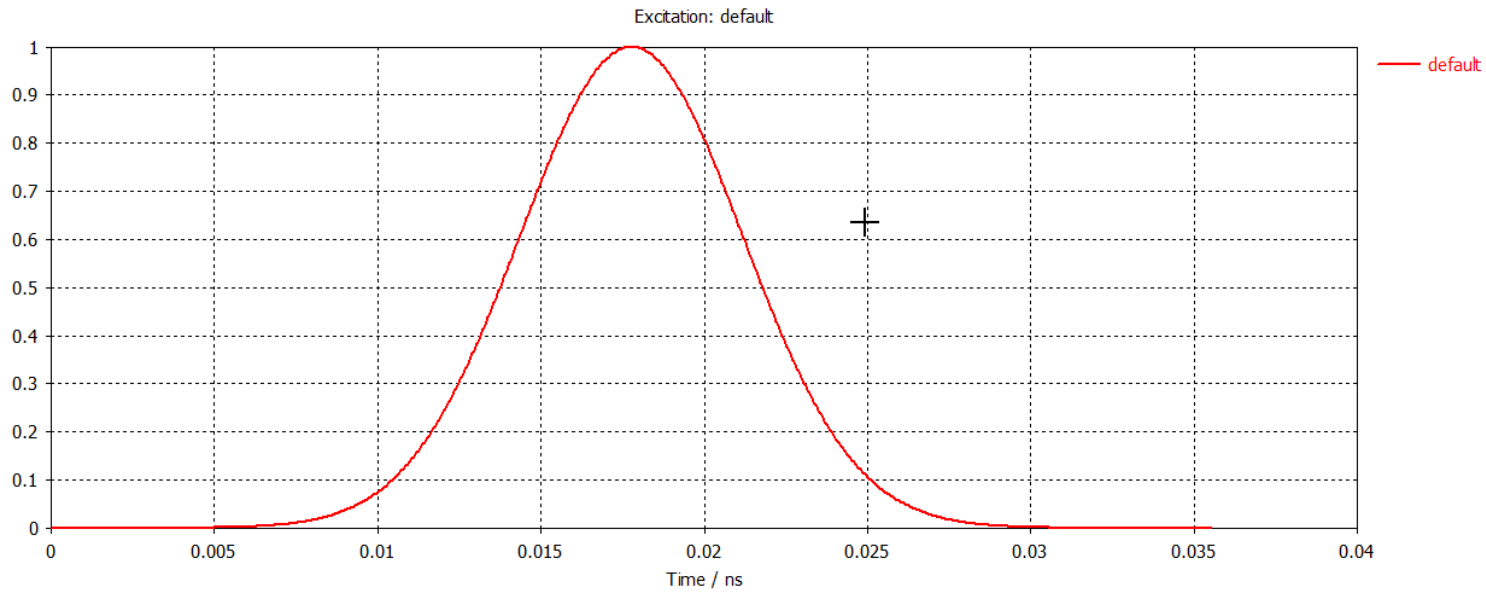
Material properties:

Material	Kapton-polyimide
Type	Normal
Epsilon	3.4
Mu	1
Electric cond.	6.6667e-16 [S/m]

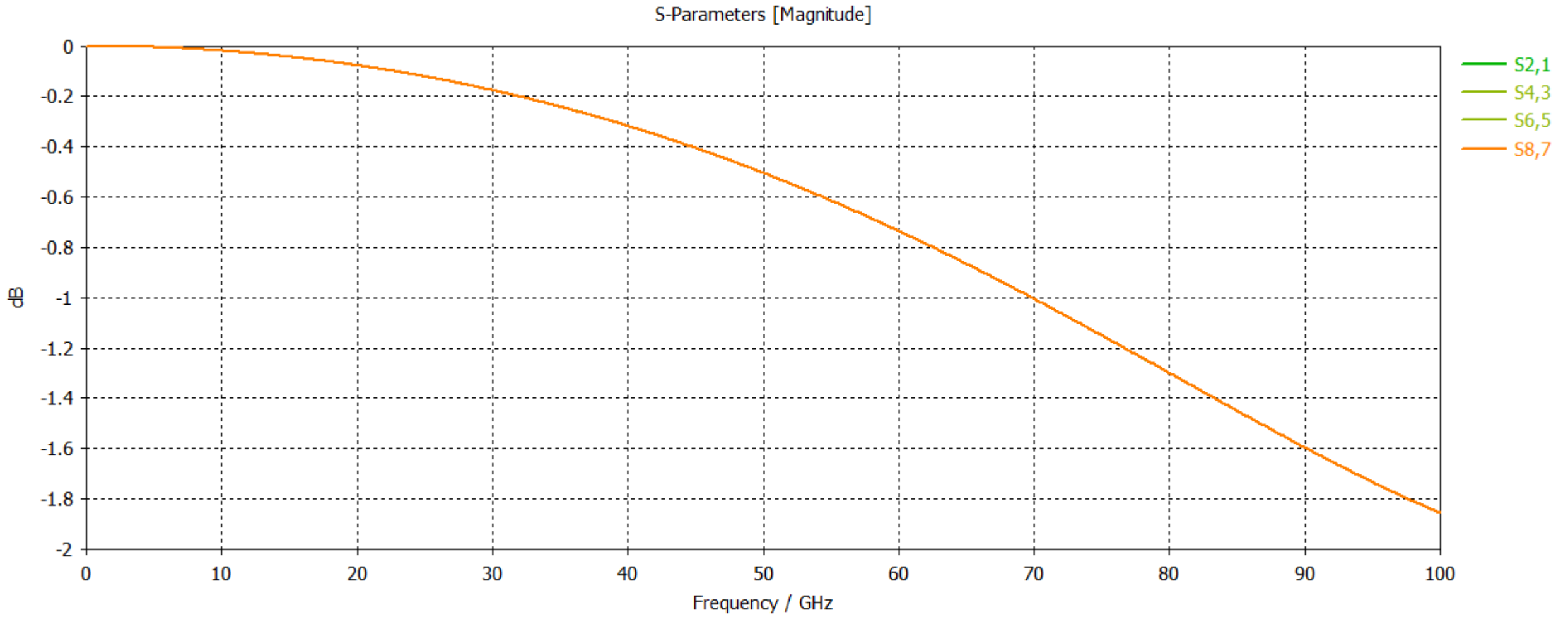
Material	Silver
Type	Lossy metal
Mu	1
Electric cond.	6.3012e+07 [S/m]
Rho	10500 [kg/m ³]
Thermal cond.	429 [W/K/m]
Specific heat	230 [J/K/kg]
Diffusivity	0.00017764 [m ² /s]
Young's modulus	76 [kN/mm ²]
Thermal expan.	20 [1e-6/K]



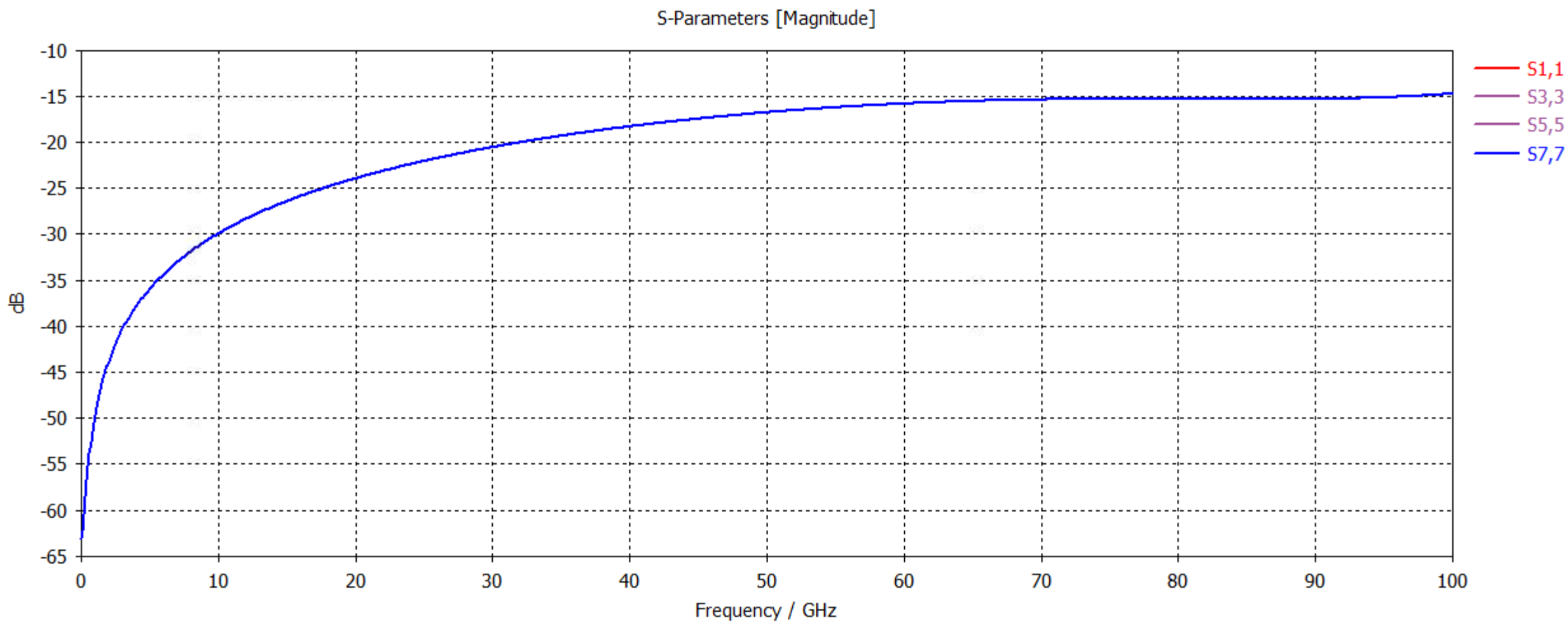
Excitation Signal:



Insertion loss (SE):

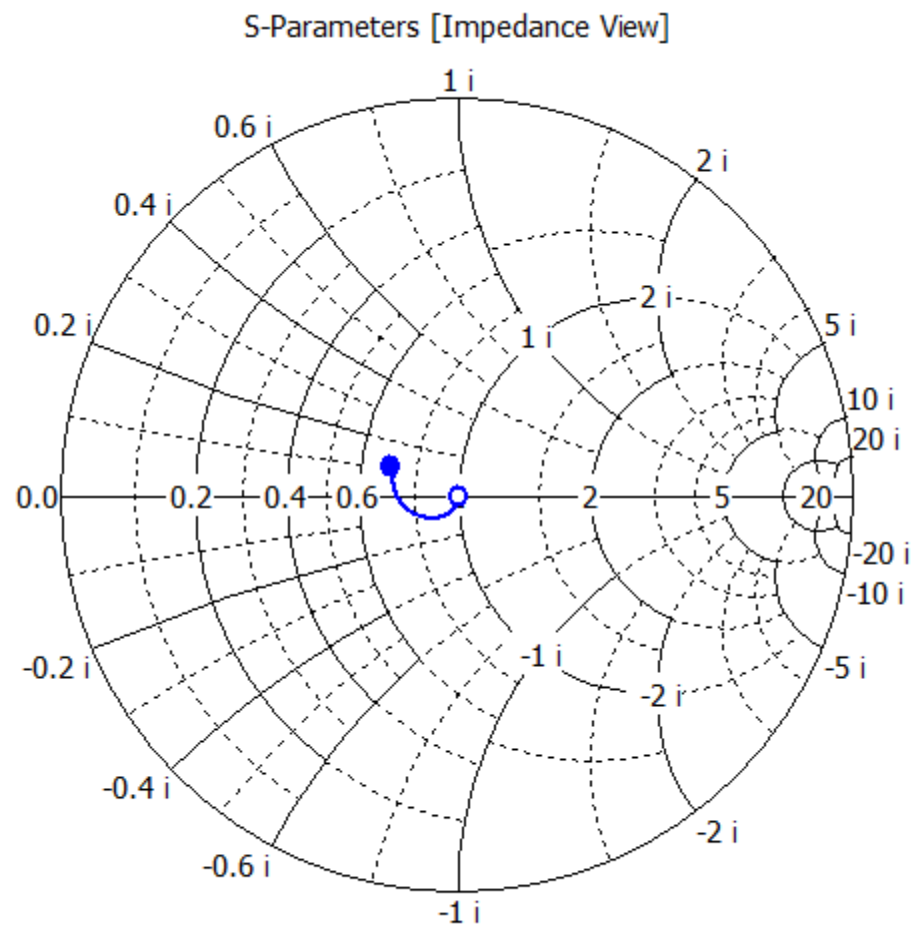


Return loss (SE):



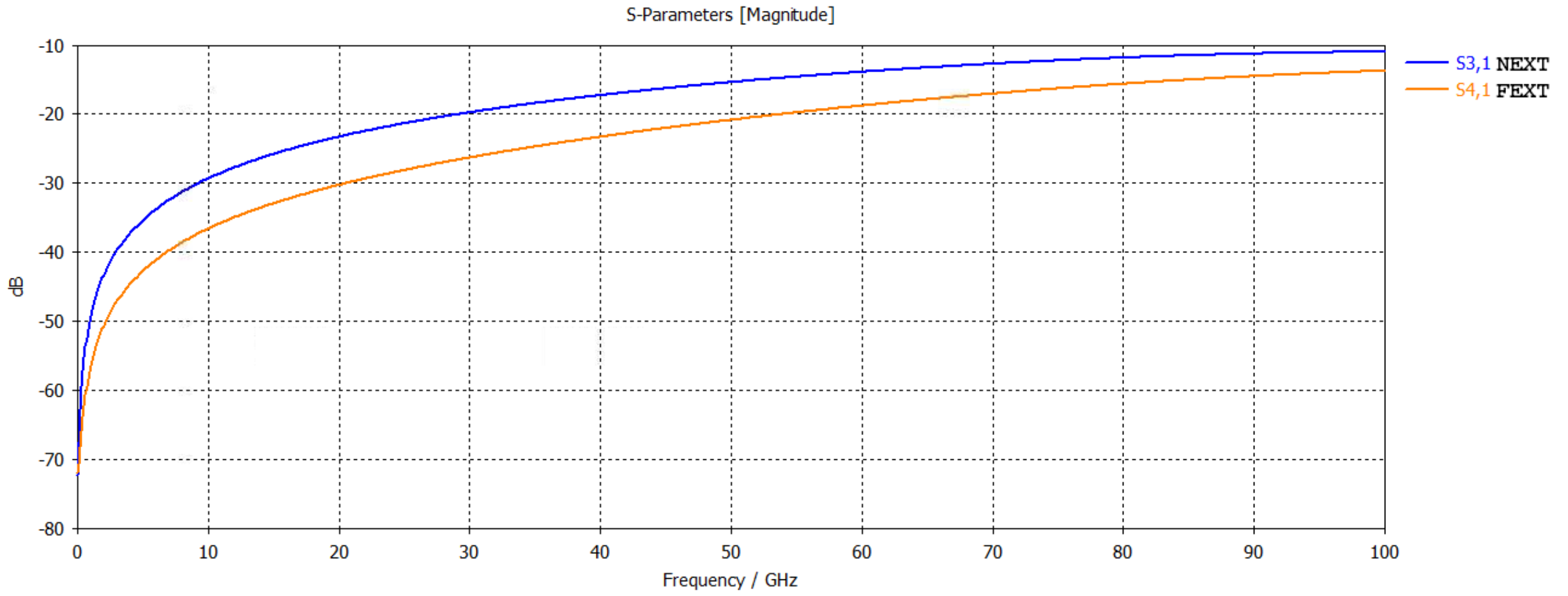
Smith Chart (SE):

○ 0
● 100
Frequency / GHz

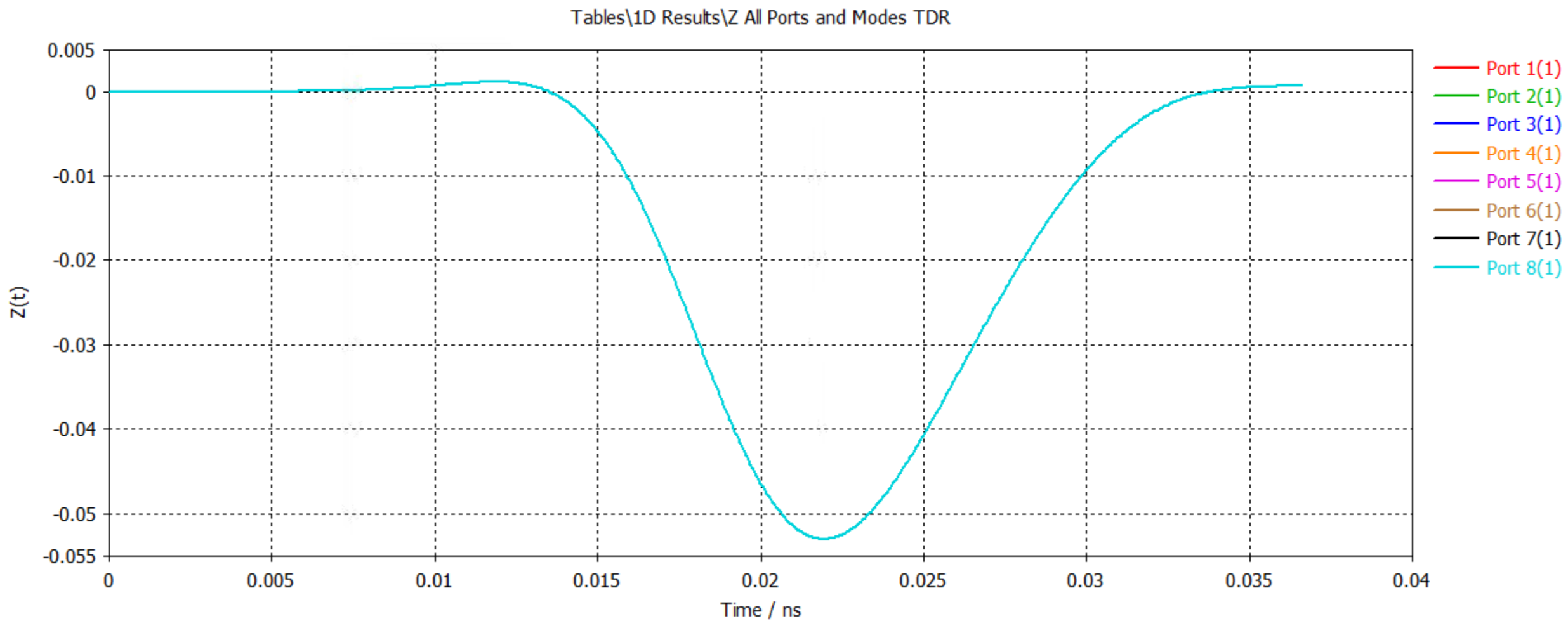


— S1,1 (50 Ohm)
— S3,3 (50 Ohm)
— S5,5 (50 Ohm)
— S7,7 (50 Ohm)

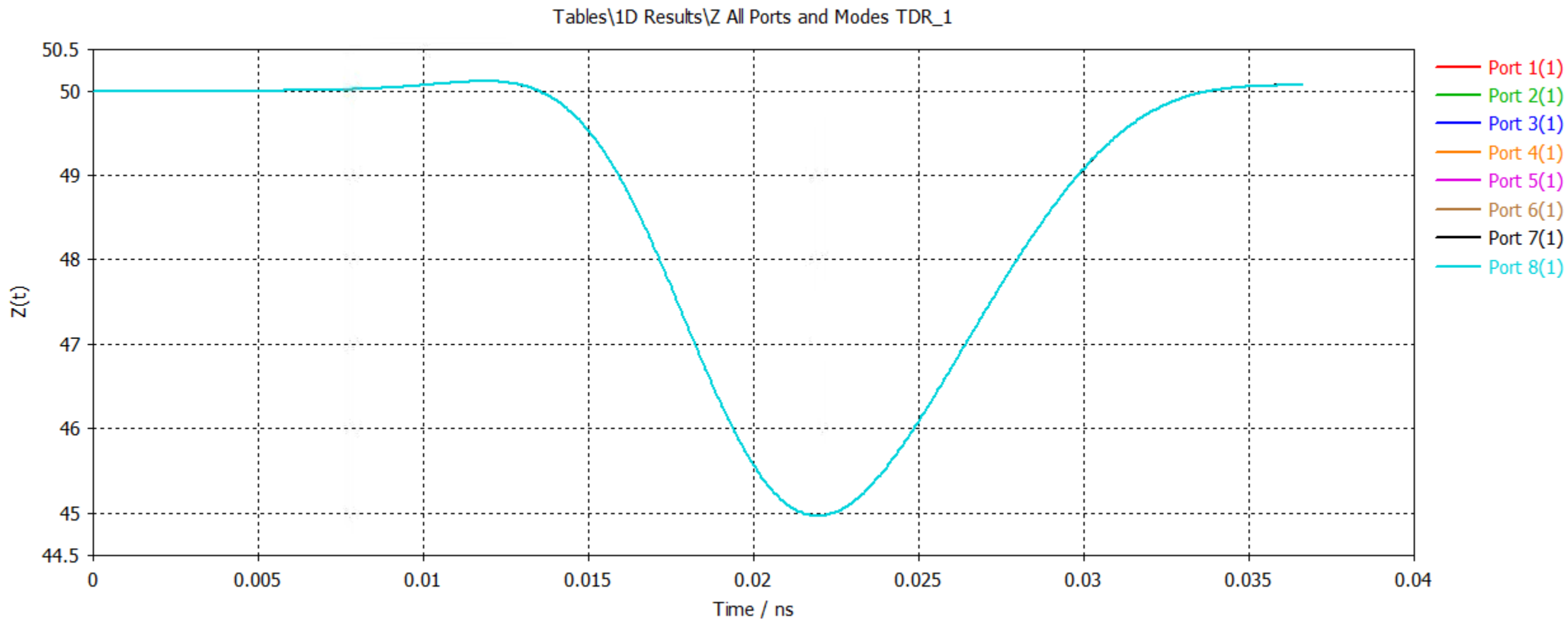
Crosstalk (SE):



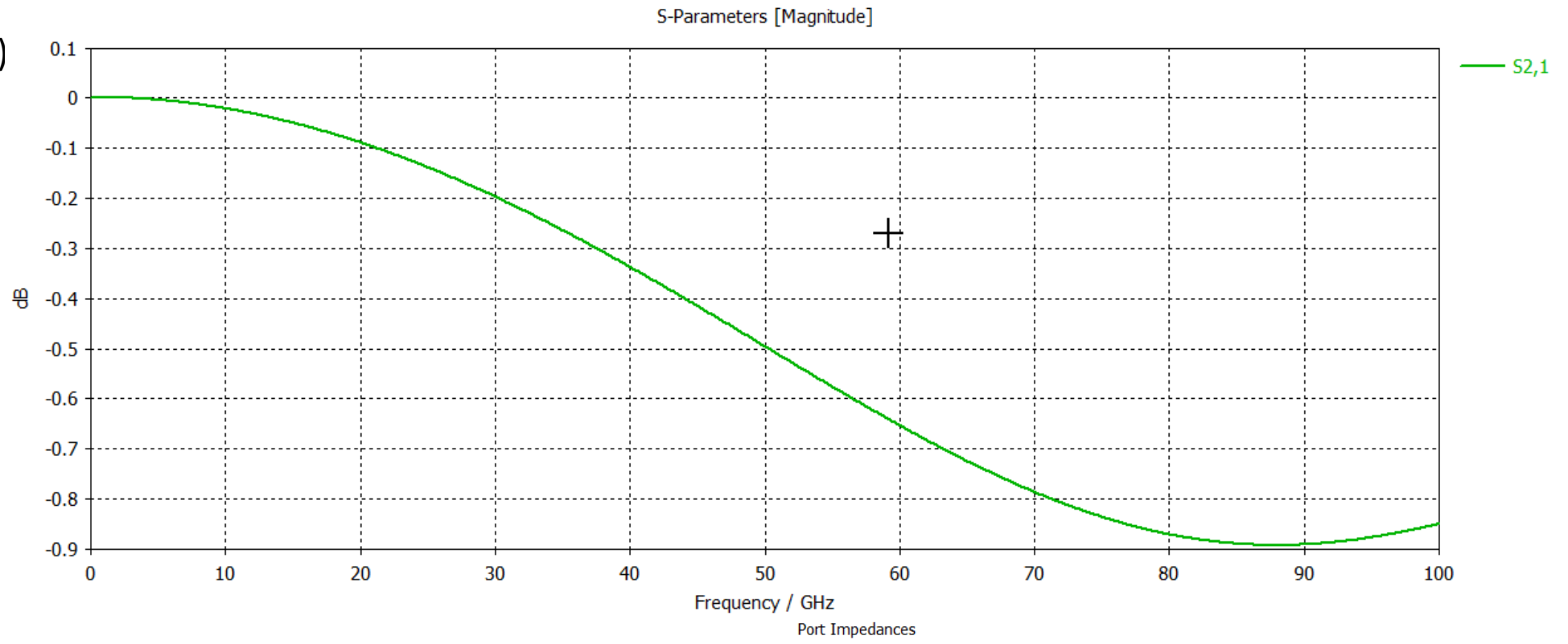
TDR (ρ) - (SE):



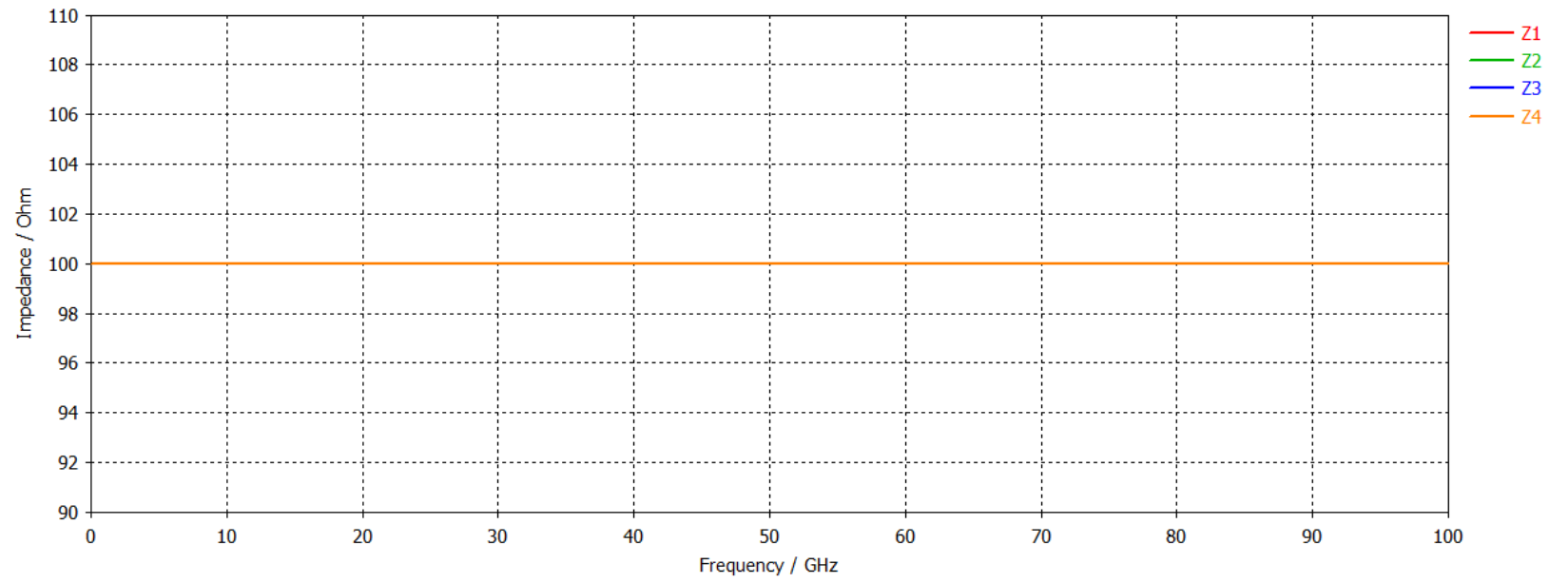
TDR (z) - (SE):



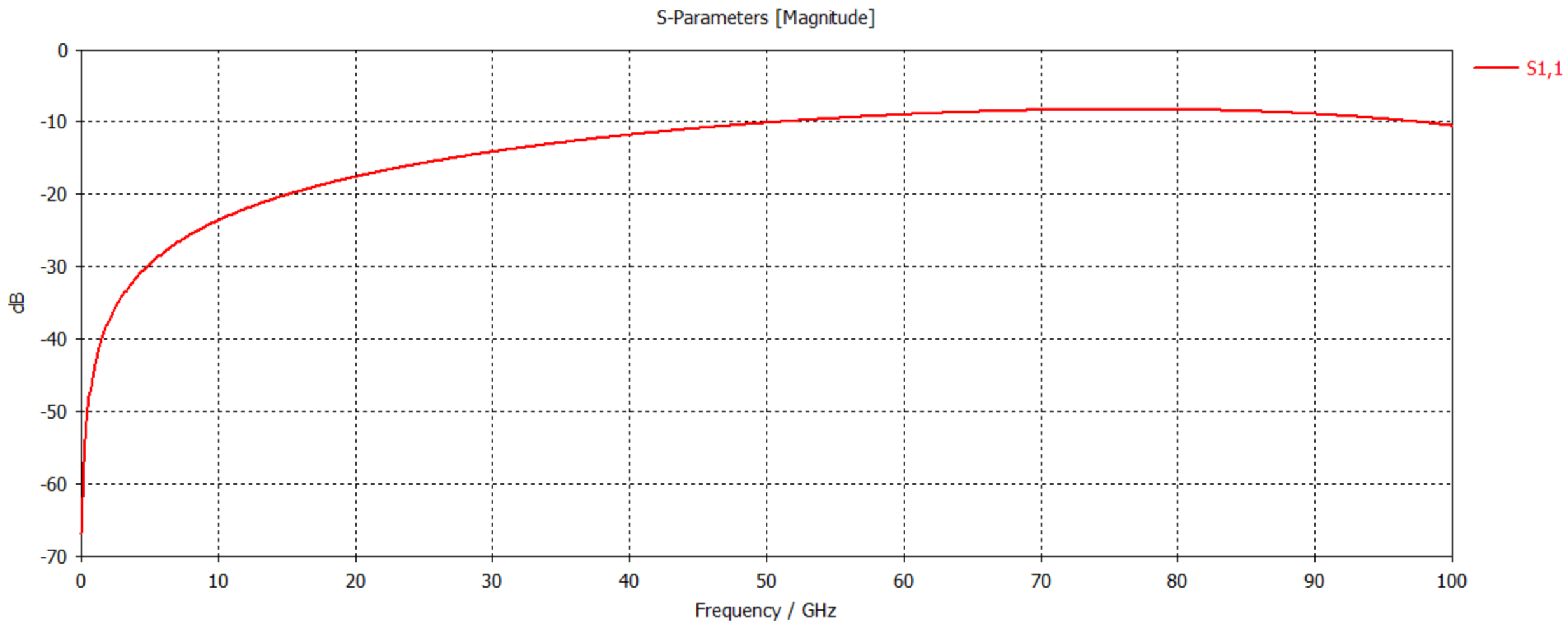
Insertion loss (DIFF MODE)



Port Impedance (DIFF MODE):

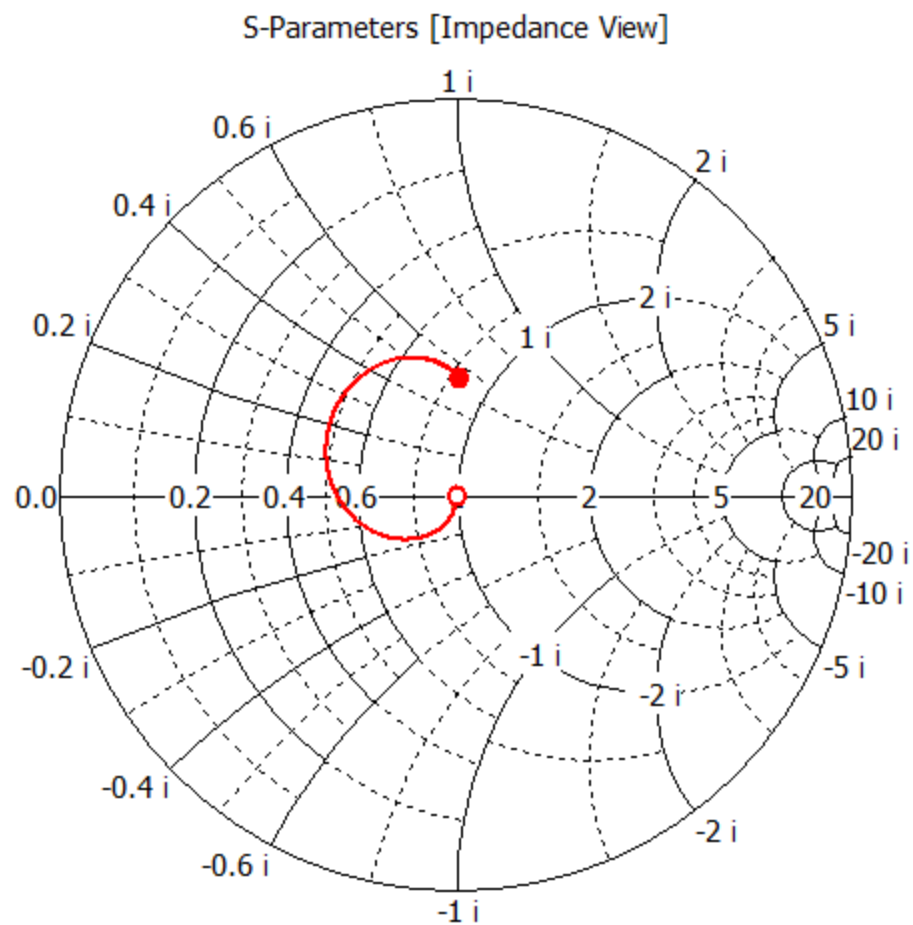


Return loss (DIFF MODE):



Smith Chart (DIFF MODE):

- 0 (100, 0) Ohm
 - 100 (85, 55.3) Ohm
- Frequency / GHz



— S_{1,1} (100 Ohm)

XTALK (DIFF MODE):

