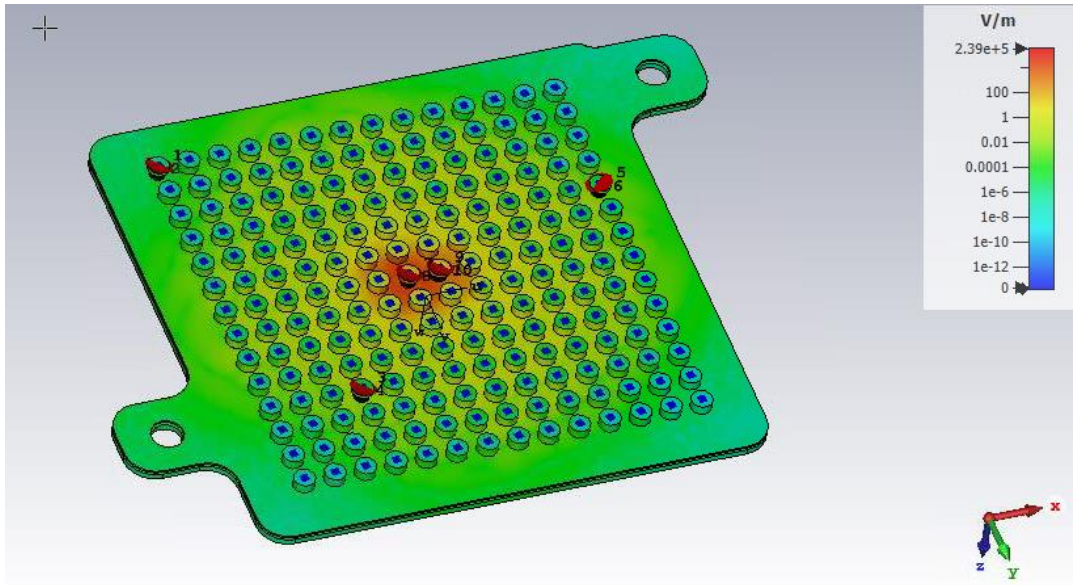
Ironwood Electronics, Inc.

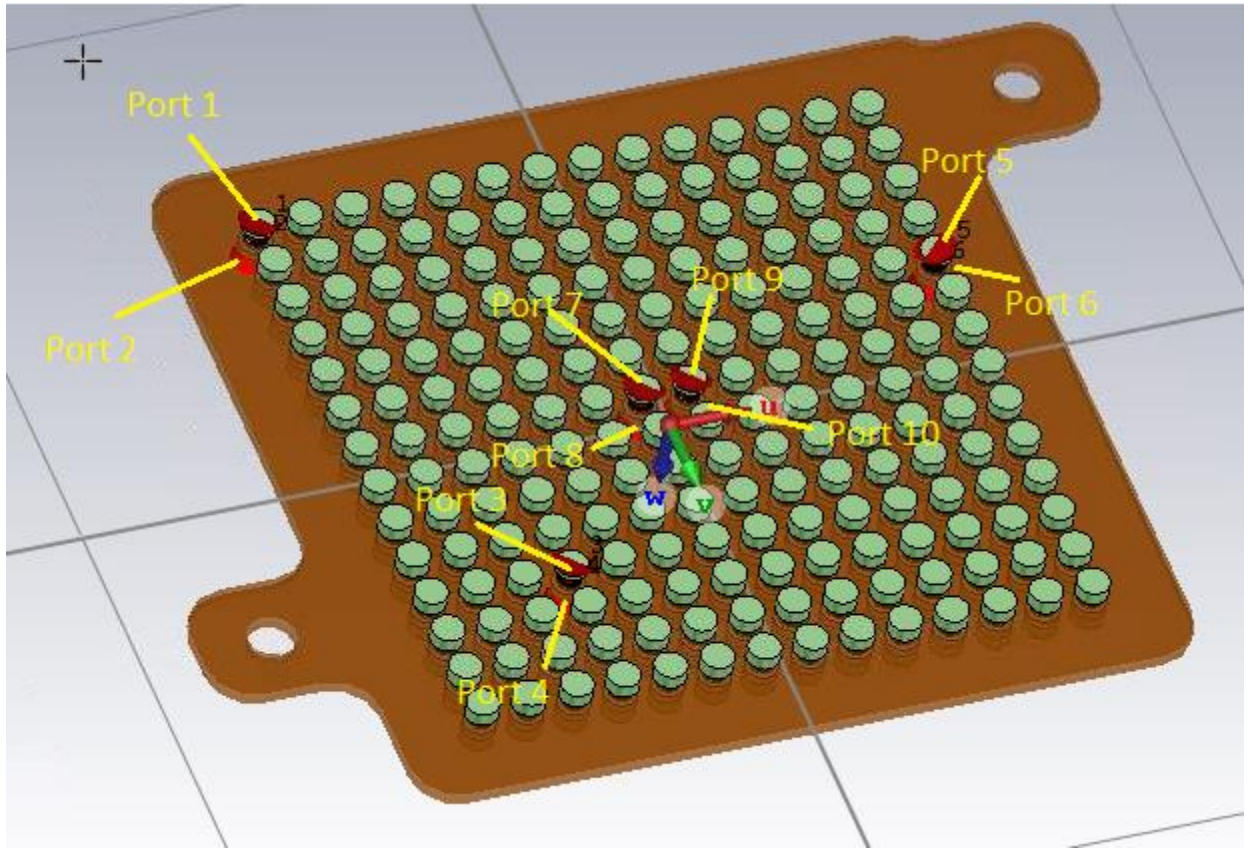
S-parameter simulation for 0.8mm pitch GT-P elastomer set

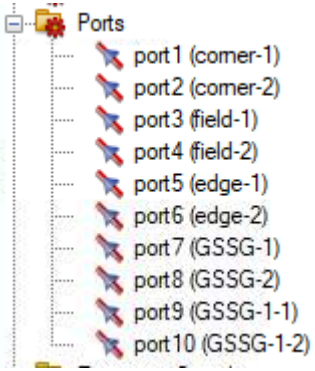
G-S-G; G-S-S-G Configurations

Software: CST MWS

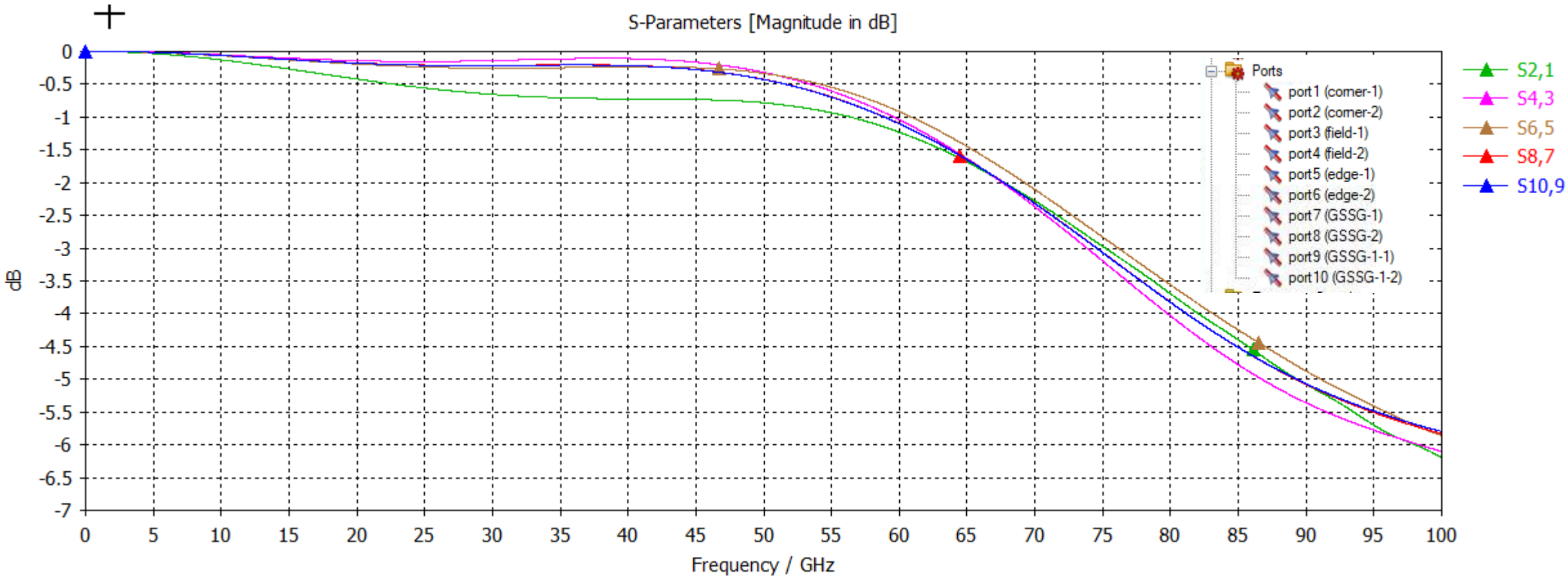


Port mapping:

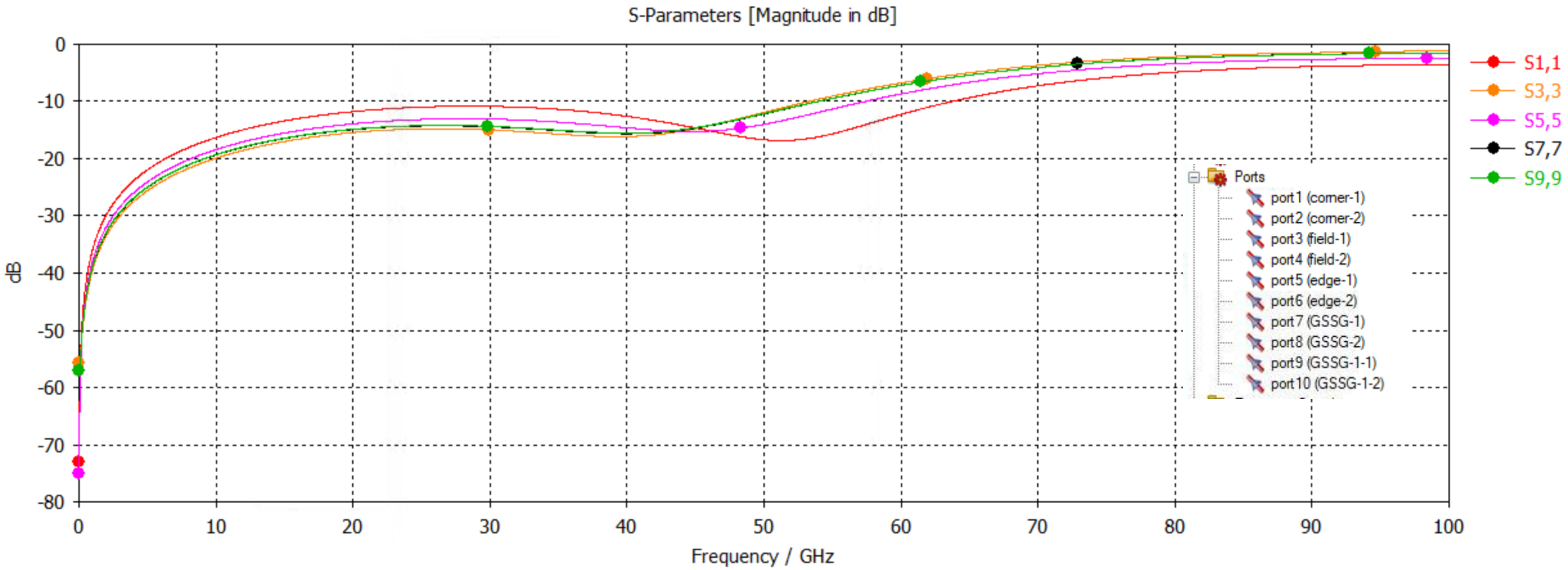




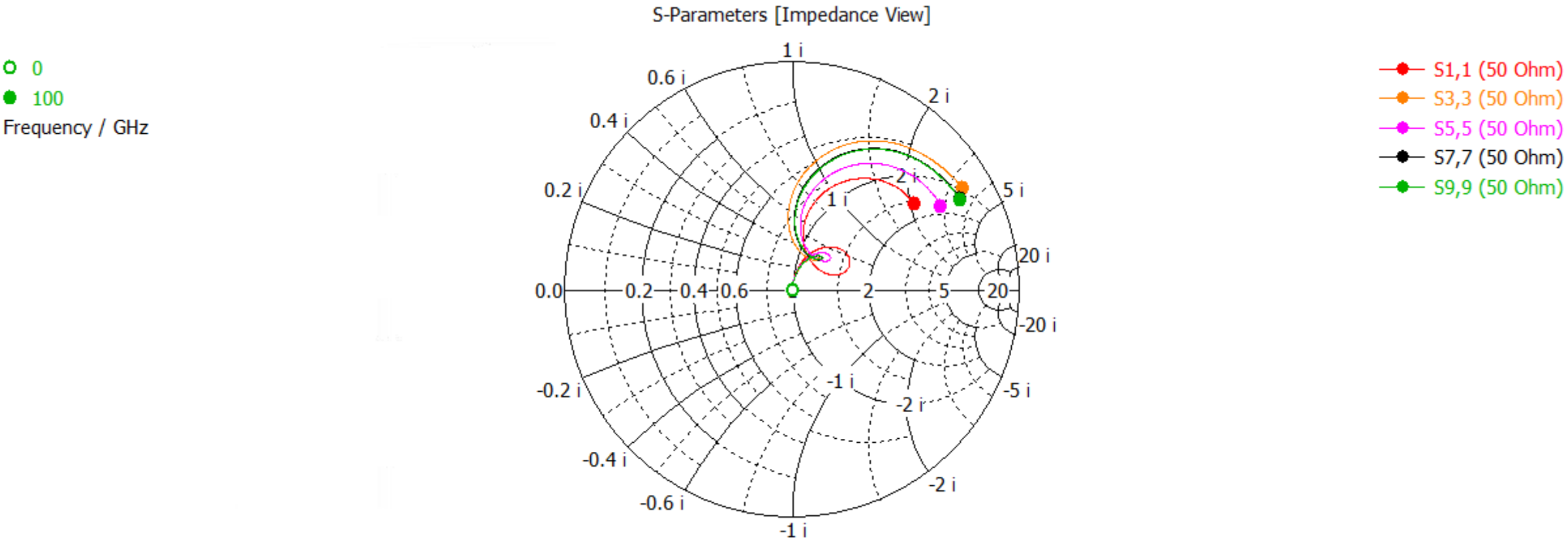
Insertion loss:



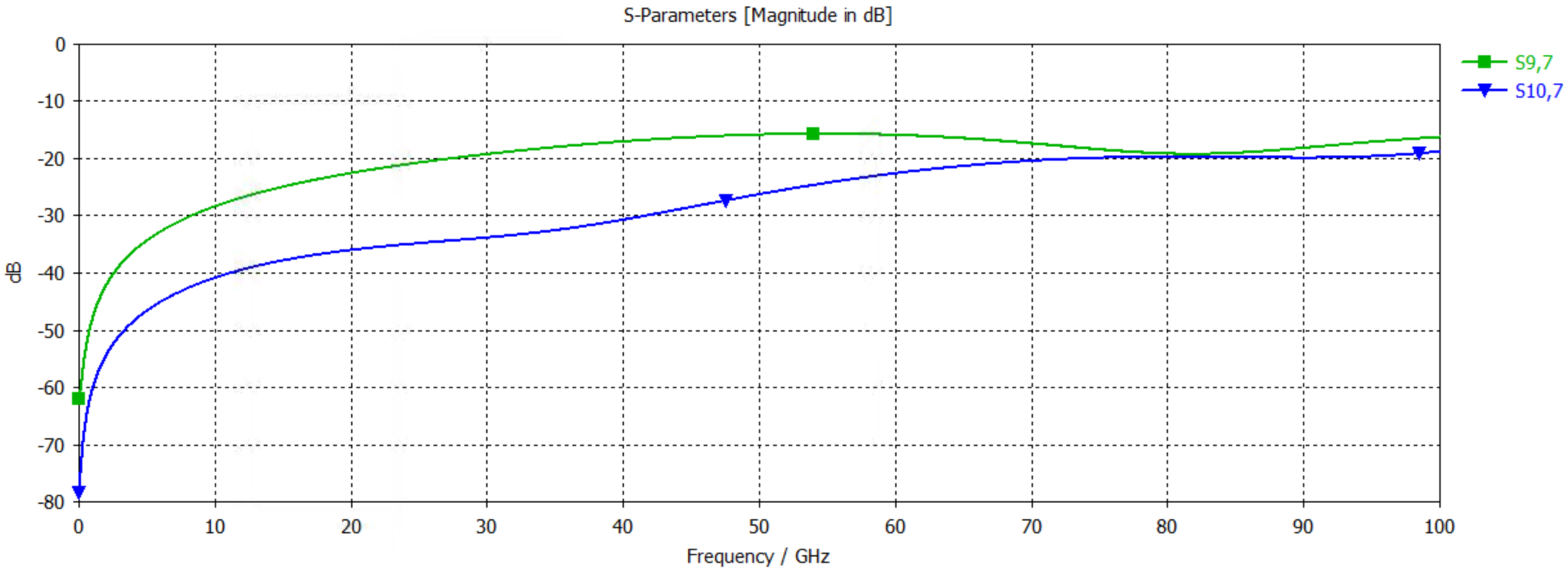
Return loss:


S-Parameters [Magnitude in dB]
dB
Frequency / GHz
0
-10
-20
-30
-40
-50
-60
-70
-80
0
10
20
30
40
50
60
70
80
90
100
S1,1
S3,3
S5,5
S7,7
S9,9
Ports
port1 (corner-1)
port2 (corner-2)
port3 (field-1)
port4 (field-2)
port5 (edge-1)
port6 (edge-2)
port7 (GSSG-1)
port8 (GSSG-2)
port9 (GSSG-1-1)
port10 (GSSG-1-2)

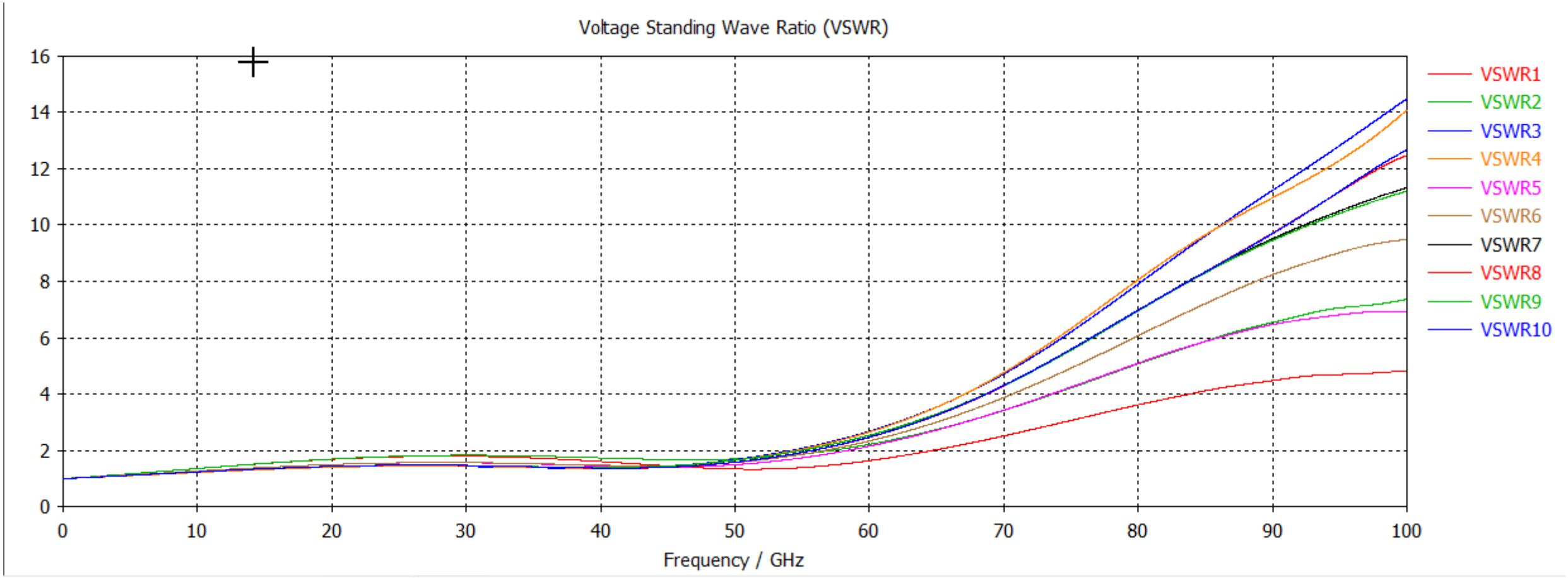
Smith Chart:


S-Parameters [Impedance View]
0
100
Frequency / GHz
S1,1 (50 Ohm)
S3,3 (50 Ohm)
S5,5 (50 Ohm)
S7,7 (50 Ohm)
S9,9 (50 Ohm)
1 i
0.6 i
0.4 i
0.2 i
0.0
-0.2 i
-0.4 i
-0.6 i
-1 i
2 i
5 i
20 i
-20 i
-5 i
-2 i
0.2
0.4
0.6
2
5
20
1
-1

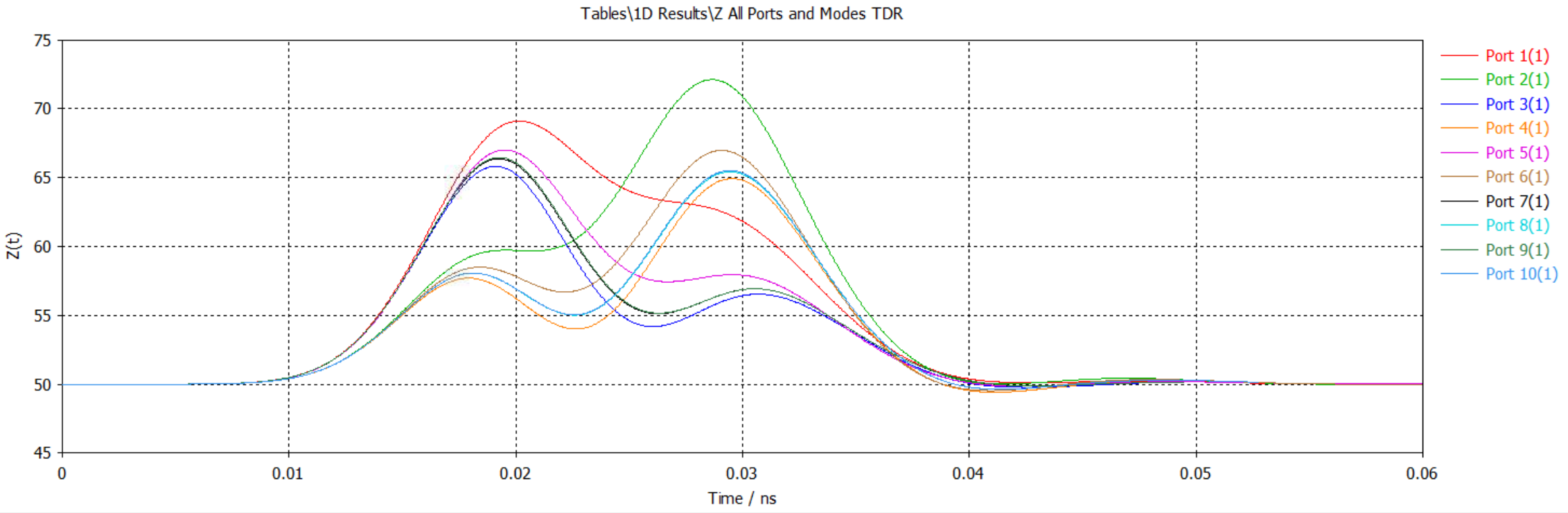
Crosstalk (FEXT; NEXT):



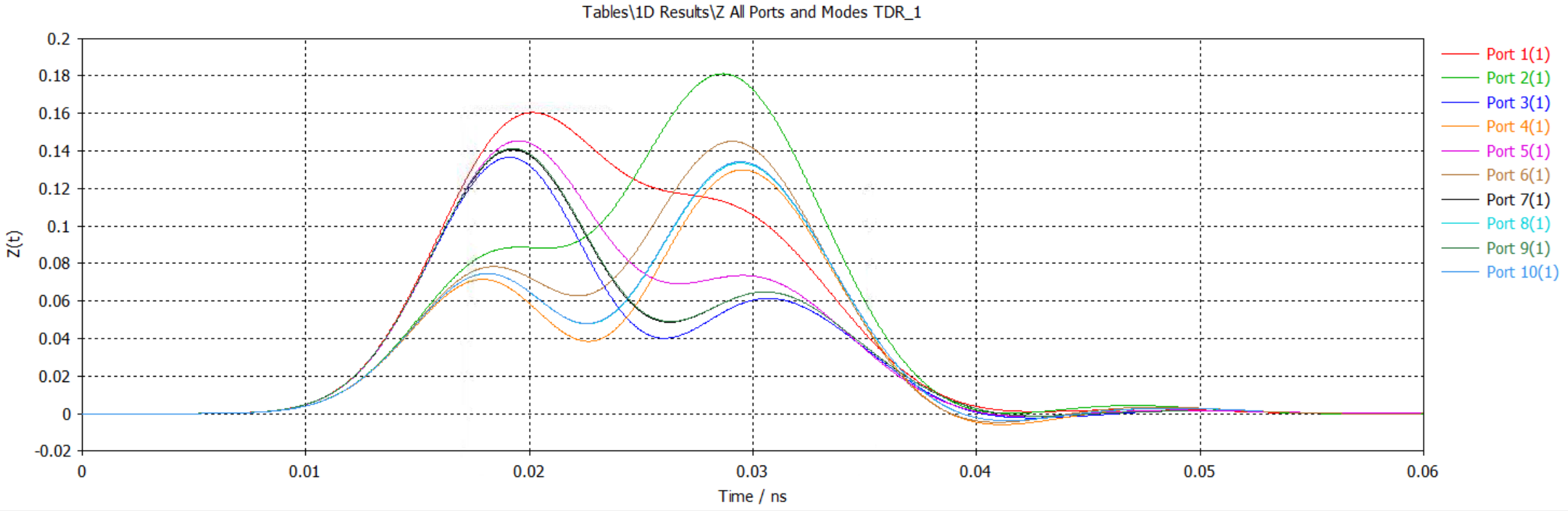
VSWR:


Voltage Standing Wave Ratio (VSWR)
16
14
12
10
8
6
4
2
0
0
10
20
30
40
50
60
70
80
90
100
Frequency / GHz
VSWR1
VSWR2
VSWR3
VSWR4
VSWR5
VSWR6
VSWR7
VSWR8
VSWR9
VSWR10

TDR(Z):


Tables\1D Results\Z All Ports and Modes TDR
Z(t)
Time / ns
75
70
65
60
55
50
45
0
0.01
0.02
0.03
0.04
0.05
0.06
Port 1(1)
Port 2(1)
Port 3(1)
Port 4(1)
Port 5(1)
Port 6(1)
Port 7(1)
Port 8(1)
Port 9(1)
Port 10(1)

TDR(ρ):


Tables\1D Results\Z All Ports and Modes TDR_1
Z(t)
Time / ns
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.02
0
0.01
0.02
0.03
0.04
0.05
0.06
Port 1(1)
Port 2(1)
Port 3(1)
Port 4(1)
Port 5(1)
Port 6(1)
Port 7(1)
Port 8(1)
Port 9(1)
Port 10(1)