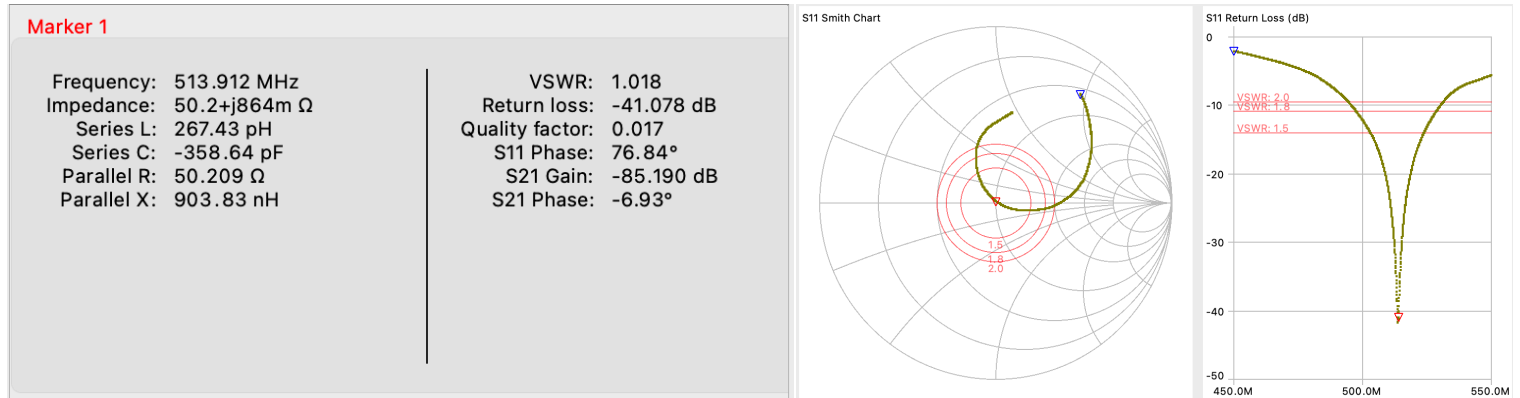


Radion Dipole v1.3

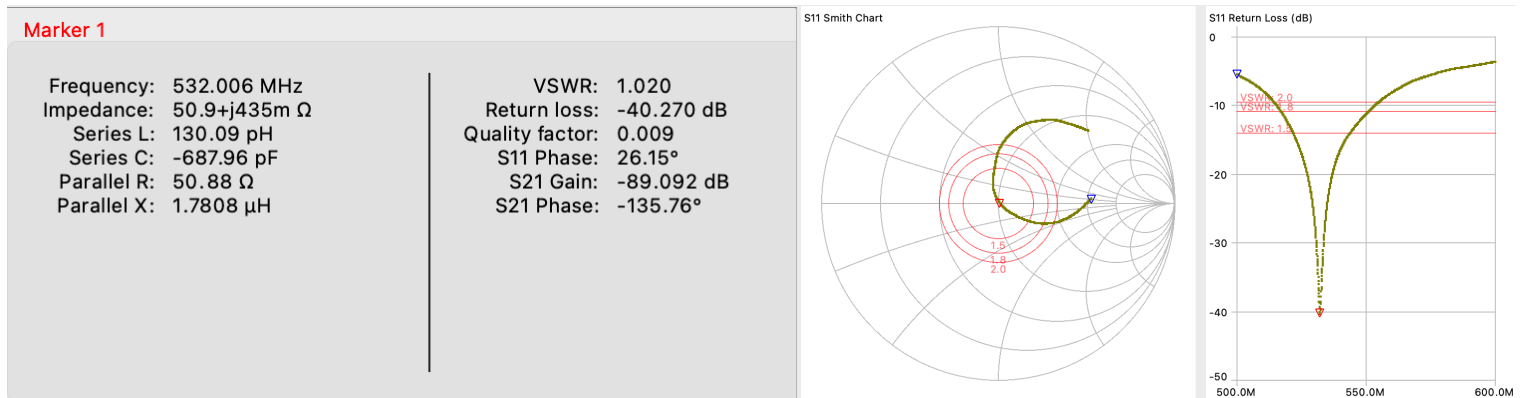
Заміри зроблені з антени, встановленої на дроні. Поляризація вертикальна. Кабель RG316, довжина 15см, конектор SMA.

Характеристики антени можуть мінятись в залежності від конструкції дрона, способу встановлення, поляризації, типу конектора, довжини та типу кабелю.

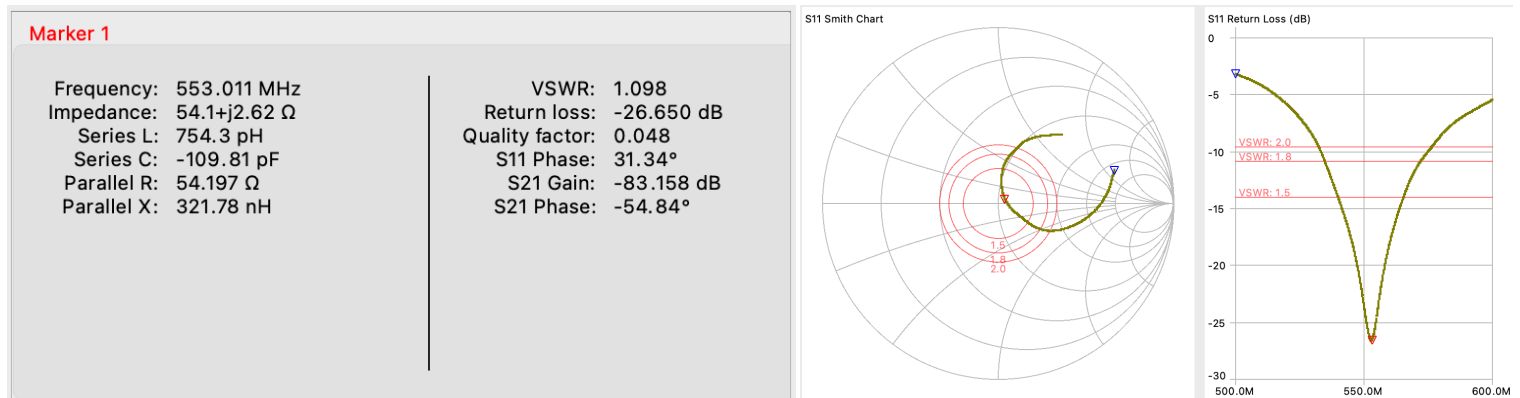
Label 0



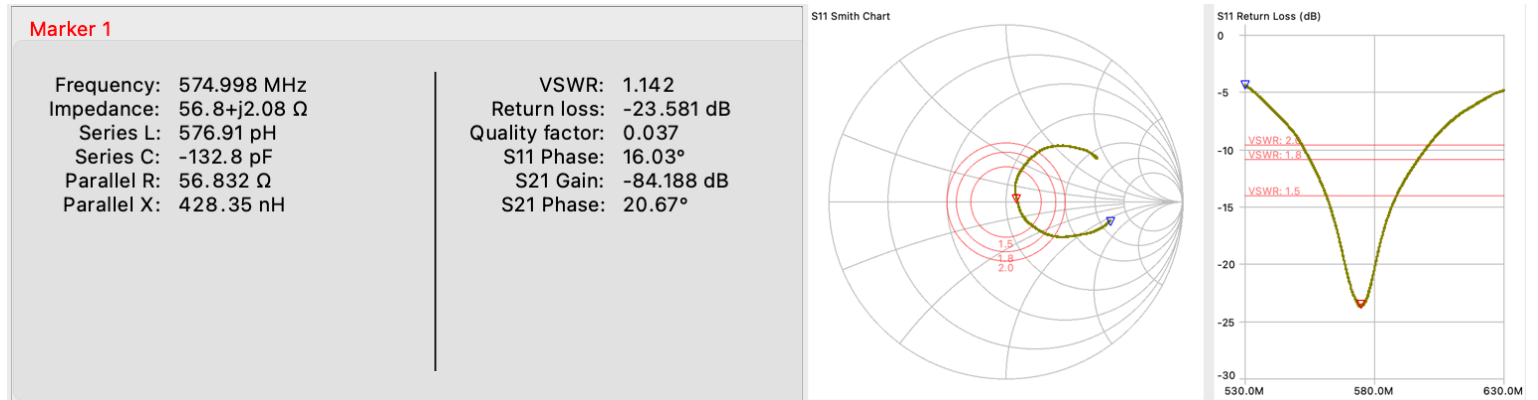
Label 1



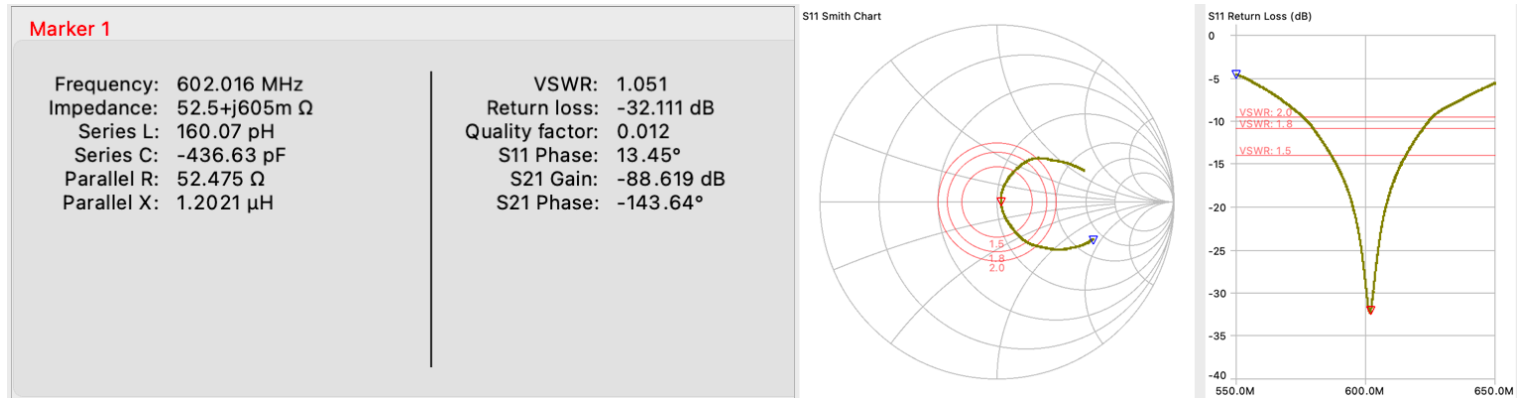
Label 2



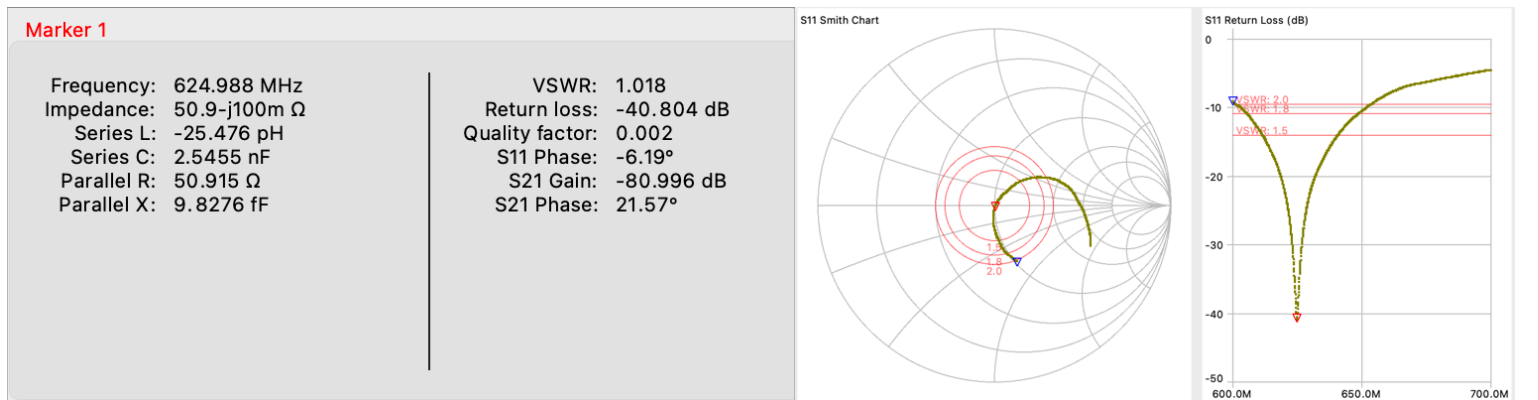
Label 3



Label 4



Label 5



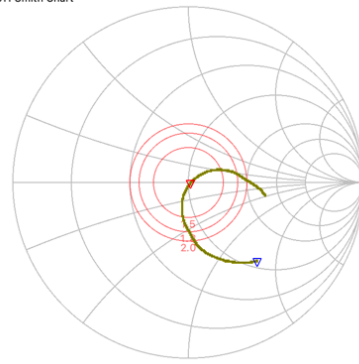
Label 6

Marker 1

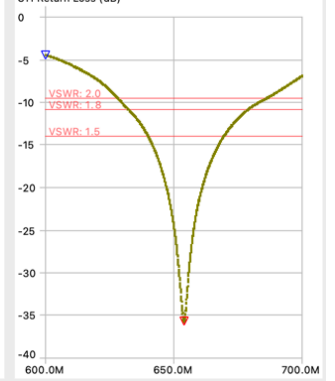
Frequency: 654.007 MHz
Impedance: $51.4 - j905\text{m } \Omega$
Series L: -220.35 pH
Series C: 268.75 pF
Parallel R: $51.398\text{ } \Omega$
Parallel X: 83.437 fF

VSWR: 1.033
Return loss: -35.757 dB
Quality factor: 0.018
S11 Phase: -32.71°
S21 Gain: -83.525 dB
S21 Phase: 178.18°

S11 Smith Chart



S11 Return Loss (dB)



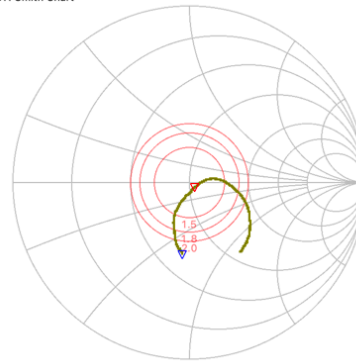
Label 7

Marker 1

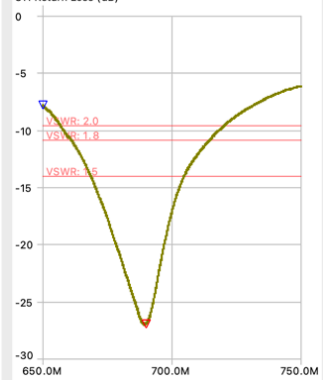
Frequency: 690.020 MHz
Impedance: $53.5 - j3.06\text{ } \Omega$
Series L: -705.7 pH
Series C: 75.387 pF
Parallel R: $53.636\text{ } \Omega$
Parallel X: 246.11 fF

VSWR: 1.093
Return loss: -27.007 dB
Quality factor: 0.057
S11 Phase: -39.78°
S21 Gain: -81.445 dB
S21 Phase: -124.83°

S11 Smith Chart



S11 Return Loss (dB)



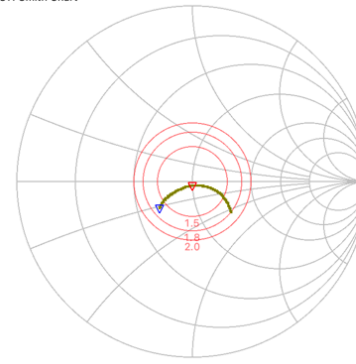
Label 8

Marker 1

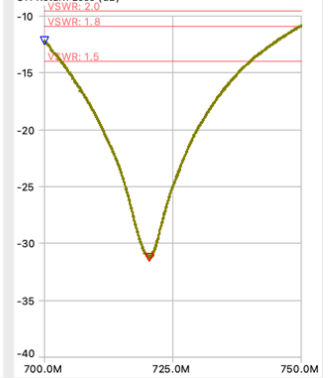
Frequency: 720.408 MHz
Impedance: $50.3 - j2.72\text{ } \Omega$
Series L: -600.61 pH
Series C: 81.262 pF
Parallel R: $50.435\text{ } \Omega$
Parallel X: 236.81 fF

VSWR: 1.056
Return loss: -31.293 dB
Quality factor: 0.054
S11 Phase: -82.39°
S21 Gain: -91.181 dB
S21 Phase: -3.29°

S11 Smith Chart



S11 Return Loss (dB)



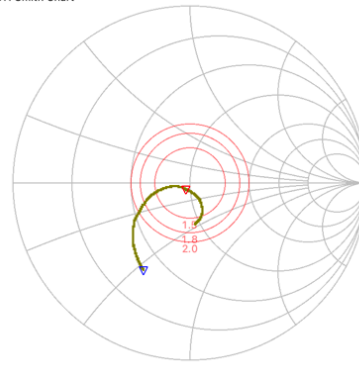
Label 9

Marker 1

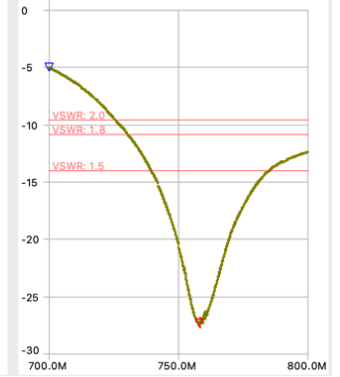
Frequency: 757.989 MHz
Impedance: $47.8 - j3.58 \Omega$
Series L: -751.65 pH
Series C: 58.654 pF
Parallel R: 48.038Ω
Parallel X: 327.55 fF

VSWR: 1.090
Return loss: -27.308 dB
Quality factor: 0.075
S11 Phase: -119.83°
S21 Gain: -83.362 dB
S21 Phase: -18.08°

S11 Smith Chart



S11 Return Loss (dB)



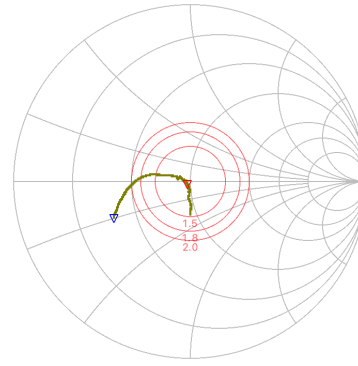
Label 10

Marker 1

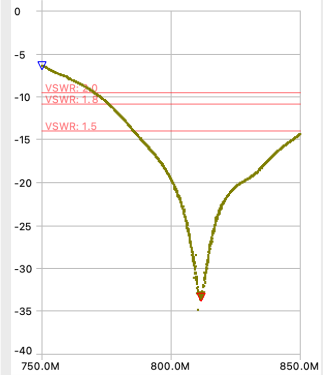
Frequency: 811.623 MHz
Impedance: $48.4 - j1.37 \Omega$
Series L: -269.5 pH
Series C: 142.68 pF
Parallel R: 48.439Ω
Parallel X: 114.95 fF

VSWR: 1.044
Return loss: -33.377 dB
Quality factor: 0.028
S11 Phase: -138.54°
S21 Gain: -86.992 dB
S21 Phase: 108.88°

S11 Smith Chart



S11 Return Loss (dB)



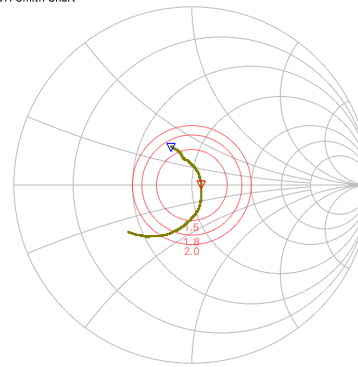
Label 11

Marker 1

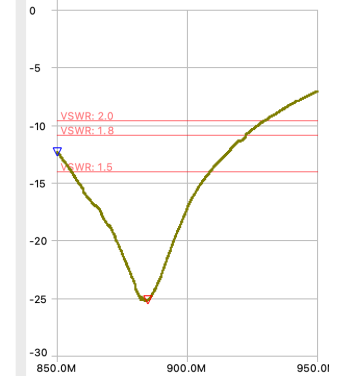
Frequency: 884.793 MHz
Impedance: $55.8 + j111 \text{ m}\Omega$
Series L: 19.904 pH
Series C: -1.6256 nF
Parallel R: 55.831Ω
Parallel X: $5.0673 \mu\text{H}$

VSWR: 1.117
Return loss: -25.176 dB
Quality factor: 0.002
S11 Phase: 1.03°
S21 Gain: -80.336 dB
S21 Phase: -6.72°

S11 Smith Chart



S11 Return Loss (dB)



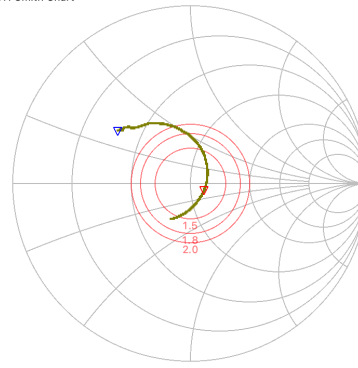
Label 12

Marker 1

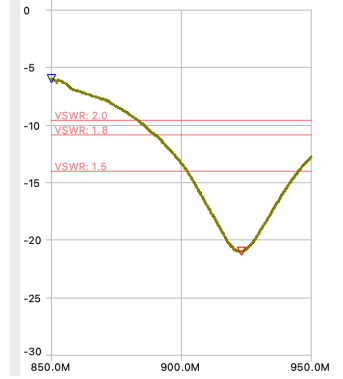
Frequency: 923.220 MHz
Impedance: 58.7-j4.23 Ω
Series L: -728.76 pH
Series C: 40.78 pF
Parallel R: 59.017 Ω
Parallel X: 210.32 fF

VSWR: 1.195
Return loss: -21.011 dB
Quality factor: 0.072
S11 Phase: -23.66°
S21 Gain: -81.910 dB
S21 Phase: -20.57°

S11 Smith Chart



S11 Return Loss (dB)



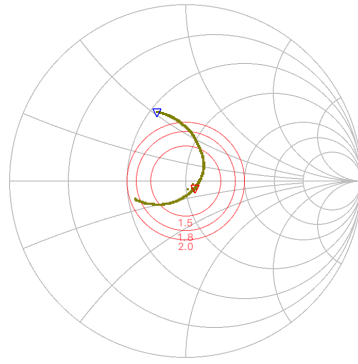
Label 13

Marker 1

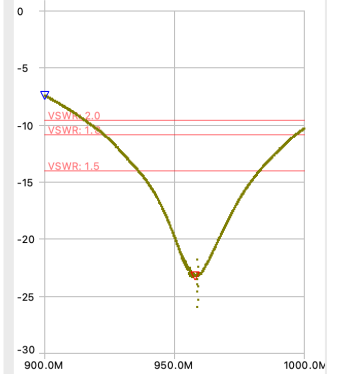
Frequency: 957.939 MHz
Impedance: 55.5-j4.8 Ω
Series L: -797.3 pH
Series C: 34.621 pF
Parallel R: 55.873 Ω
Parallel X: 257.31 fF

VSWR: 1.148
Return loss: -23.243 dB
Quality factor: 0.087
S11 Phase: -38.72°
S21 Gain: -80.398 dB
S21 Phase: -101.07°

S11 Smith Chart



S11 Return Loss (dB)



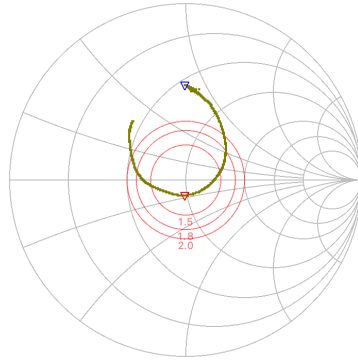
Label 14

Marker 1

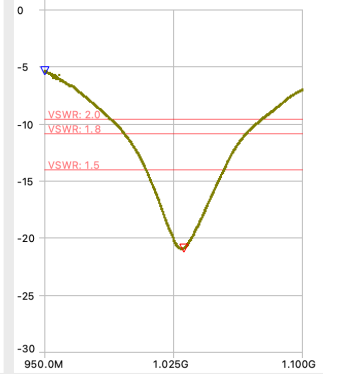
Frequency: 1.03101 GHz
Impedance: 49.1-j8.9 Ω
Series L: -1.3743 nH
Series C: 17.339 pF
Parallel R: 50.754 Ω
Parallel X: 551.04 fF

VSWR: 1.197
Return loss: -20.929 dB
Quality factor: 0.181
S11 Phase: -90.38°
S21 Gain: -77.469 dB
S21 Phase: -139.49°

S11 Smith Chart



S11 Return Loss (dB)



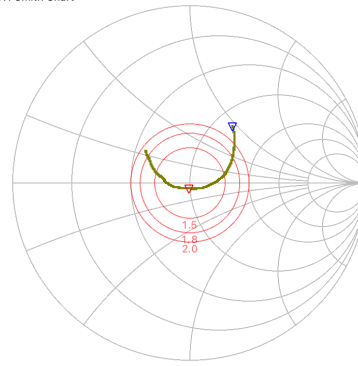
Label 15

Marker 1

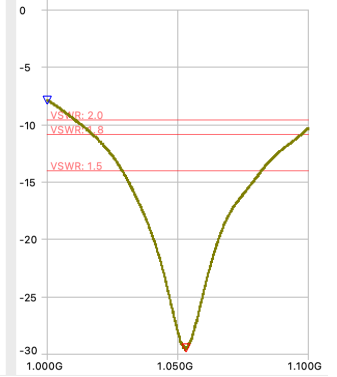
Frequency: 1.05316 GHz
Impedance: $49.4 - j3.26 \Omega$
Series L: -492.31 pH
Series C: 46.388 pF
Parallel R: 49.598Ω
Parallel X: 201 fF

VSWR: 1.069
Return loss: -29.546 dB
Quality factor: 0.066
S11 Phase: -98.84°
S21 Gain: -77.597 dB
S21 Phase: -88.60°

S11 Smith Chart



S11 Return Loss (dB)



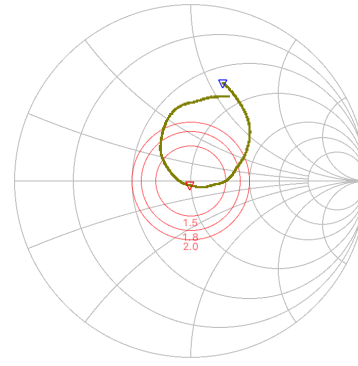
Label 16

Marker 1

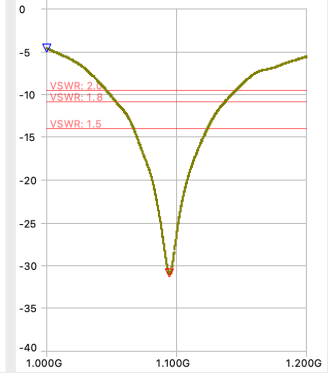
Frequency: 1.09447 GHz
Impedance: $49.5 - j2.77 \Omega$
Series L: -402.54 pH
Series C: 52.532 pF
Parallel R: 49.609Ω
Parallel X: 164.08 fF

VSWR: 1.058
Return loss: -30.946 dB
Quality factor: 0.056
S11 Phase: -99.56°
S21 Gain: -82.990 dB
S21 Phase: 173.22°

S11 Smith Chart



S11 Return Loss (dB)



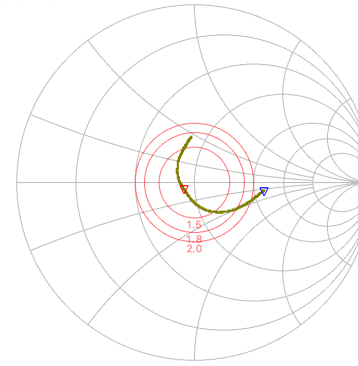
Label 17

Marker 1

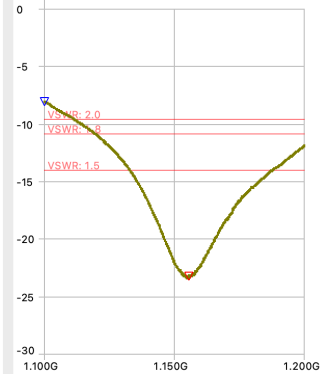
Frequency: 1.15560 GHz
Impedance: $44.5 - j3.34 \Omega$
Series L: -460.68 pH
Series C: 41.174 pF
Parallel R: 44.724Ω
Parallel X: 231.62 fF

VSWR: 1.147
Return loss: -23.306 dB
Quality factor: 0.075
S11 Phase: -146.79°
S21 Gain: -77.795 dB
S21 Phase: 161.40°

S11 Smith Chart



S11 Return Loss (dB)



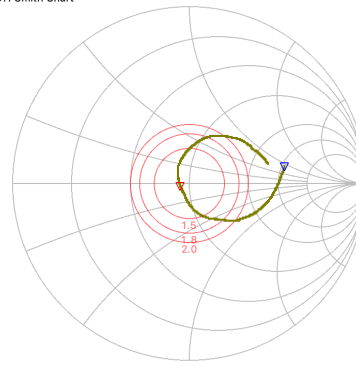
Label 18

Marker 1

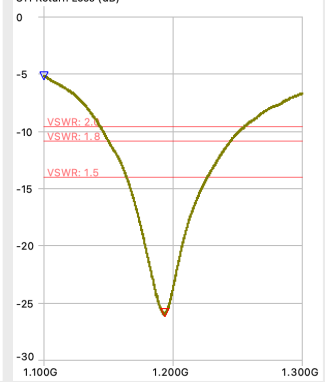
Frequency: 1.19358 GHz
Impedance: $45.3 - j1.34 \Omega$
Series L: -178.28 pH
Series C: 99.73 pF
Parallel R: 45.38Ω
Parallel X: 86.648 fF

VSWR: 1.107
Return loss: -25.877 dB
Quality factor: 0.029
S11 Phase: -163.18°
S21 Gain: -81.902 dB
S21 Phase: 107.63°

S11 Smith Chart



S11 Return Loss (dB)



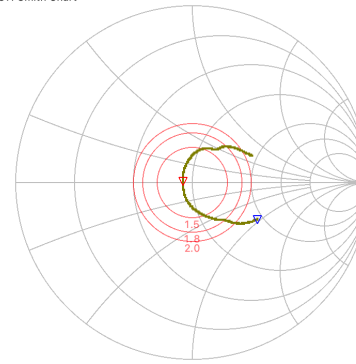
Label 19

Marker 1

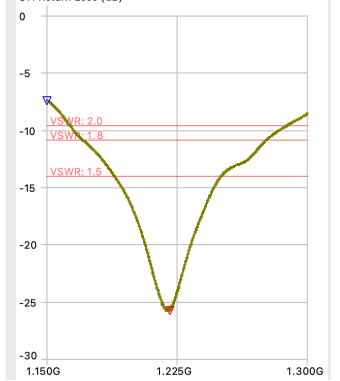
Frequency: 1.22086 GHz
Impedance: $45.2 + j716 \text{ m}\Omega$
Series L: 93.402 pH
Series C: -181.95 pF
Parallel R: 45.175Ω
Parallel X: 371.22 nH

VSWR: 1.108
Return loss: -25.784 dB
Quality factor: 0.016
S11 Phase: 171.14°
S21 Gain: -77.639 dB
S21 Phase: 149.23°

S11 Smith Chart



S11 Return Loss (dB)



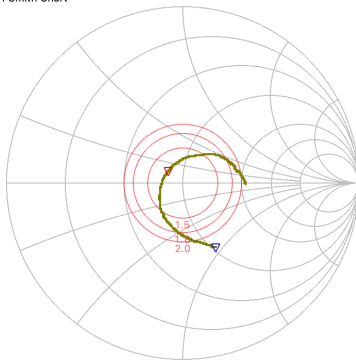
Label 20

Marker 1

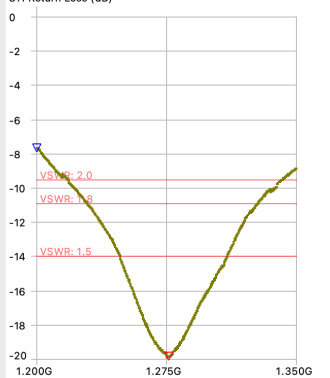
Frequency: 1.27616 GHz
Impedance: $42.5 + j5.72 \Omega$
Series L: 713.07 pH
Series C: -21.812 pF
Parallel R: 43.281Ω
Parallel X: 40.133 nH

VSWR: 1.226
Return loss: -19.858 dB
Quality factor: 0.134
S11 Phase: 139.10°
S21 Gain: -75.960 dB
S21 Phase: 112.79°

S11 Smith Chart



S11 Return Loss (dB)



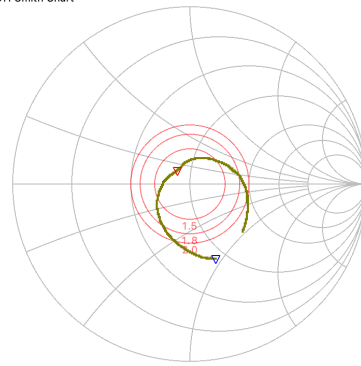
Label 21

Marker 1

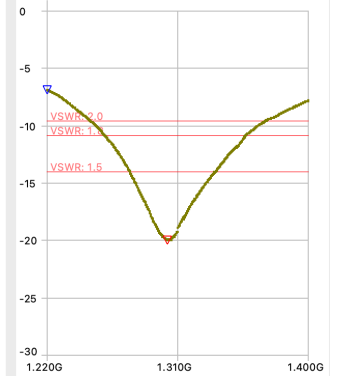
Frequency: 1.30288 GHz
Impedance: $43.2 + j6.44 \Omega$
Series L: 786.68 pH
Series C: -18.969 pF
Parallel R: 44.161Ω
Parallel X: 36.189 nH

VSWR: 1.223
Return loss: -19.979 dB
Quality factor: 0.149
S11 Phase: 132.60°
S21 Gain: -80.525 dB
S21 Phase: 73.95°

S11 Smith Chart



S11 Return Loss (dB)



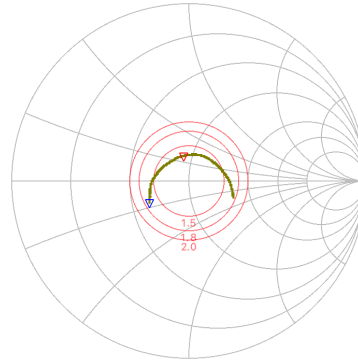
Label 22

Marker 1

Frequency: 1.34604 GHz
Impedance: $45.5 + j12.8 \Omega$
Series L: 1.5105 nH
Series C: -9.2554 pF
Parallel R: 49.065Ω
Parallel X: 20.651 nH

VSWR: 1.327
Return loss: -17.035 dB
Quality factor: 0.281
S11 Phase: 101.88°
S21 Gain: -79.359 dB
S21 Phase: 48.28°

S11 Smith Chart



S11 Return Loss (dB)

