

AN5527-A1249 MODEL B-0 ANTENNA DATA SHEET

Technical Specification Summary

Antenna Version	B-0
Type	Bowtie Dipole
Targeted Frequencies	2.403 - 2.478 GHz
Predicted Peak Directivity	3.33 dBi
Predicted Peak Gain	2.41 dBi
Efficiency	78%

PCB Layer Breakdown

Top Silk Print
Top Solder Mask
Top Copper Route (1 oz)
FR-4
Bottom Copper Route (1 oz)
Bottom Solder Mask
Bottom Silk Print

1.0 mm



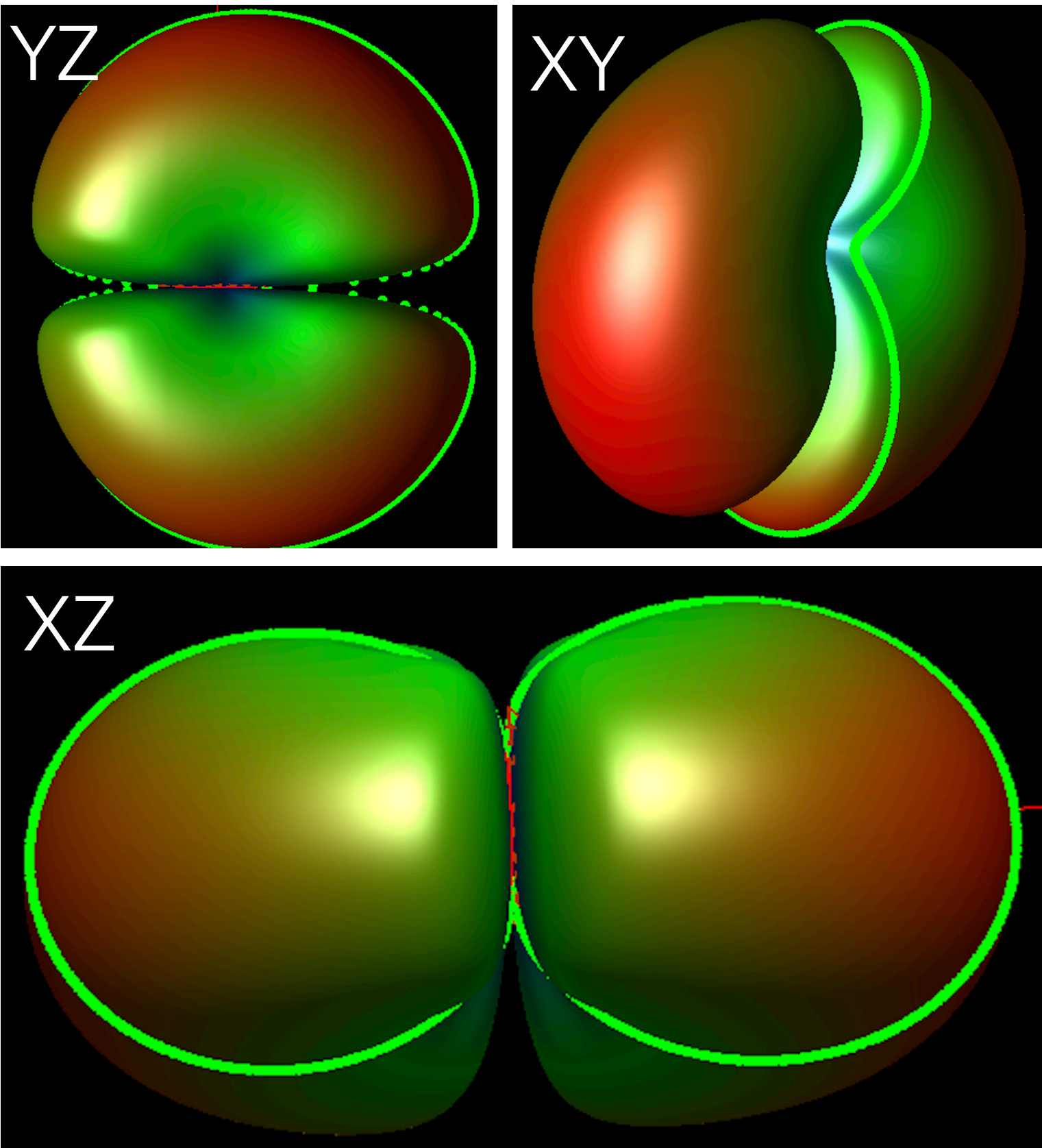
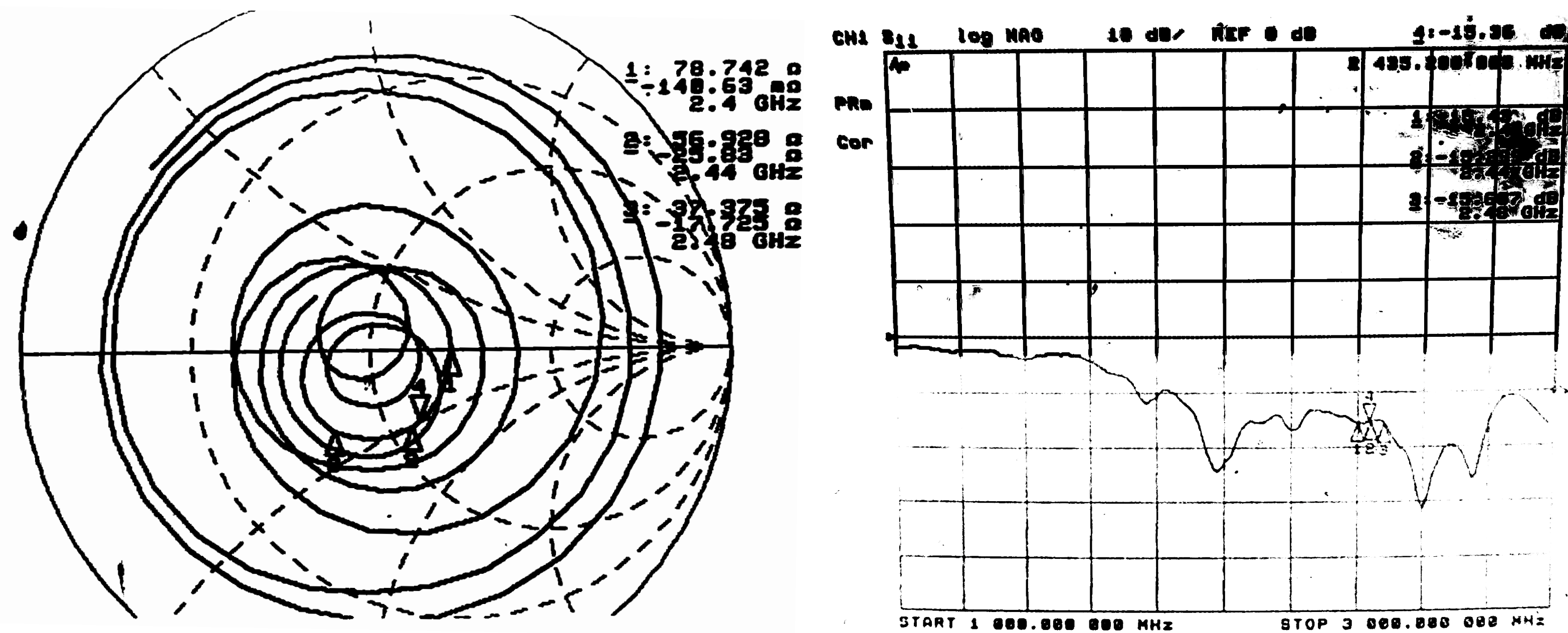
AN5527-A1177	
AN5527-A1176 Antenna PCB	coax cable

Milimetres (mm)

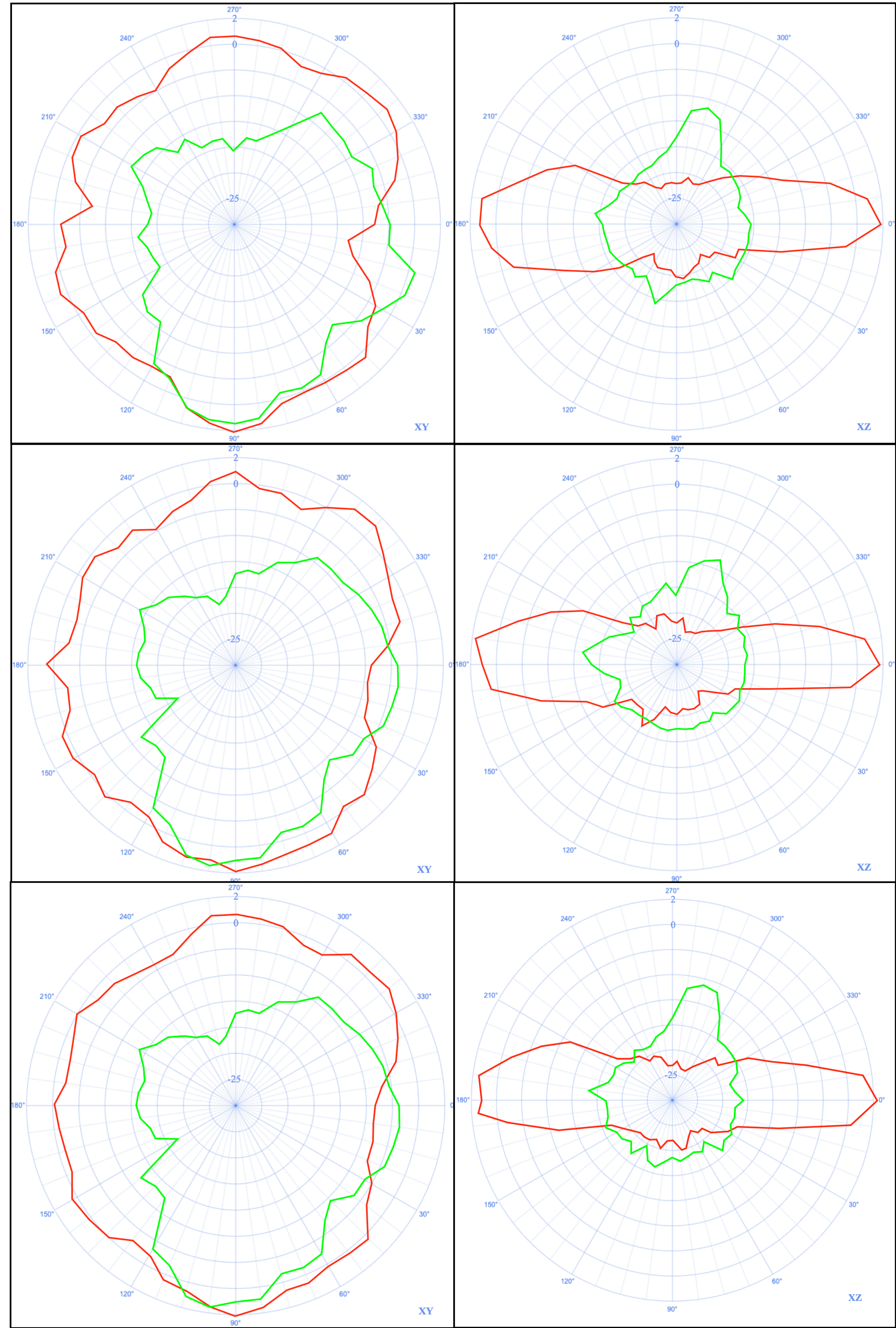


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S11 and Return Loss



Gain Pattern



Notes:
1. XY plane slice is not accurately depicted. The plane slice is actually a conical slice 15° off the XY plane
2. Measurements are in the absolute scale of the E-field

2.40 GHz	Vertical	Horiz
Ave Gain XY	0.77	0.42
Peak Gain XY	2.05	1.81
Total Gain XY	2.08	1.83
Ave Gain XZ	0.36	0.29
Peak Gain XZ	1.92	0.35
Total Gain XZ	1.94	0.36

2.44 GHz	Vertical	Horiz
Ave Gain XY	0.89	0.51
Peak Gain XY	2.05	1.83
Total Gain XY	2.07	1.86
Ave Gain XZ	0.38	0.29
Peak Gain XZ	1.94	0.36
Total Gain XZ	1.95	0.37

2.48 GHz	Vertical	Horiz
Ave Gain XY	0.92	0.39
Peak Gain XY	2.11	1.79
Total Gain XY	2.13	1.81
Ave Gain XZ	0.37	0.28
Peak Gain XZ	2.41	0.35
Total Gain XZ	2.42	0.36