



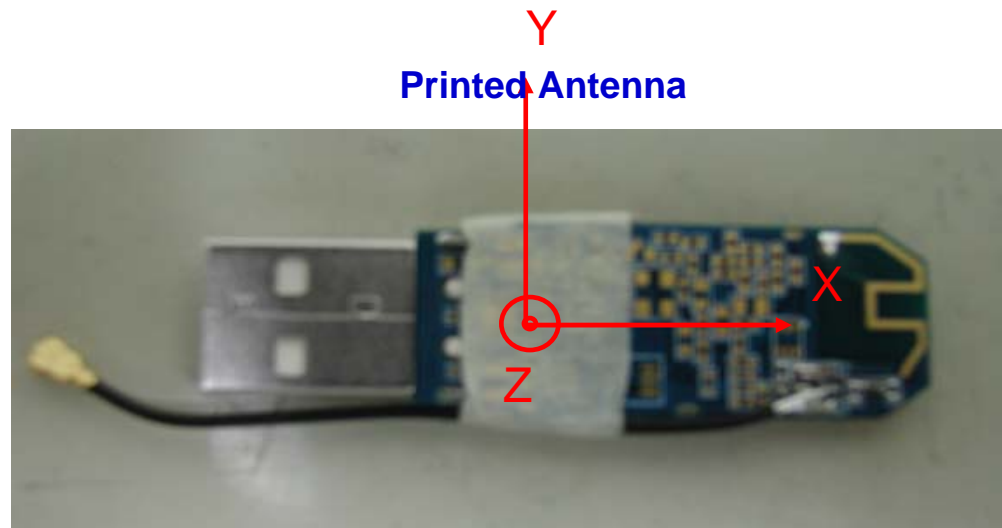
Ralink's Printed Antenna Report for USB 2.4GHz ISM Band Working Frequency -- RT3070

Editor : Claire

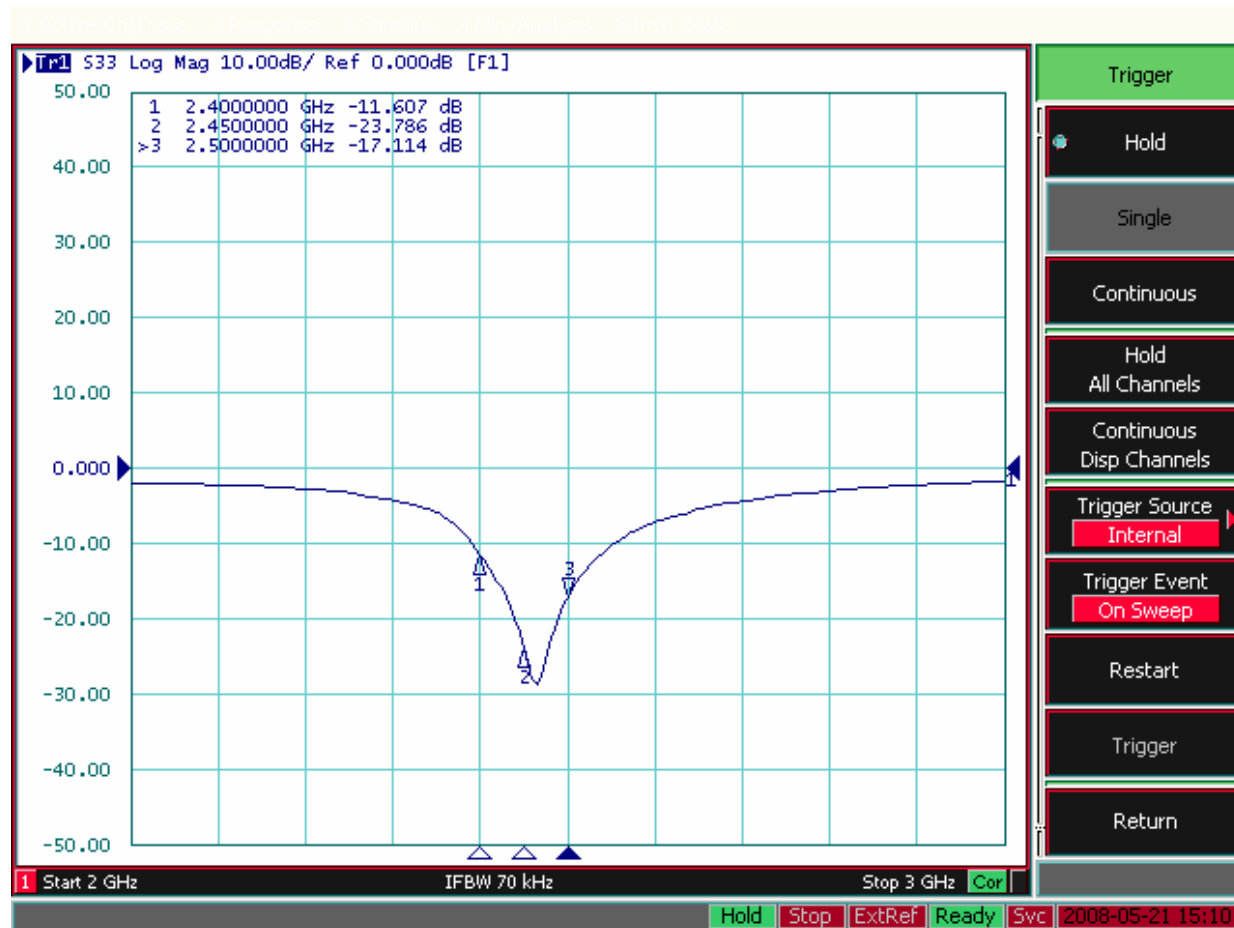
Date: 20080704

Measurement Items

- Measurement Items :
 - a. Return loss
 - b. Radiation pattern



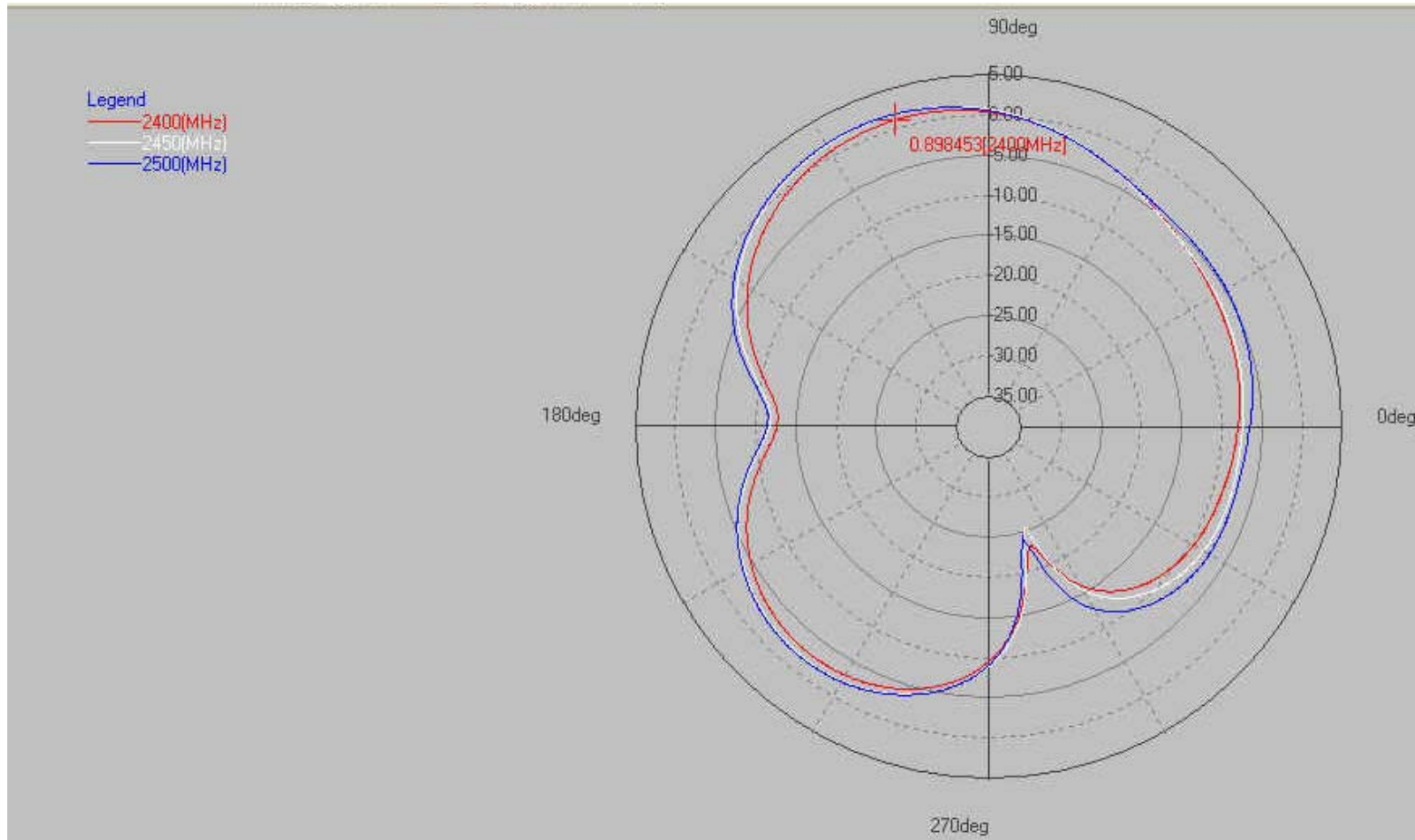
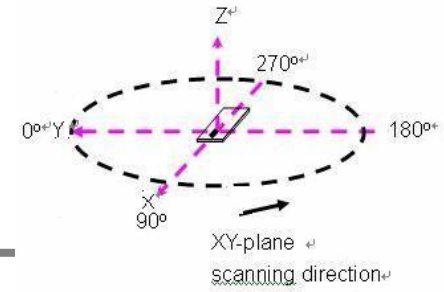
Return Loss



Radiation pattern

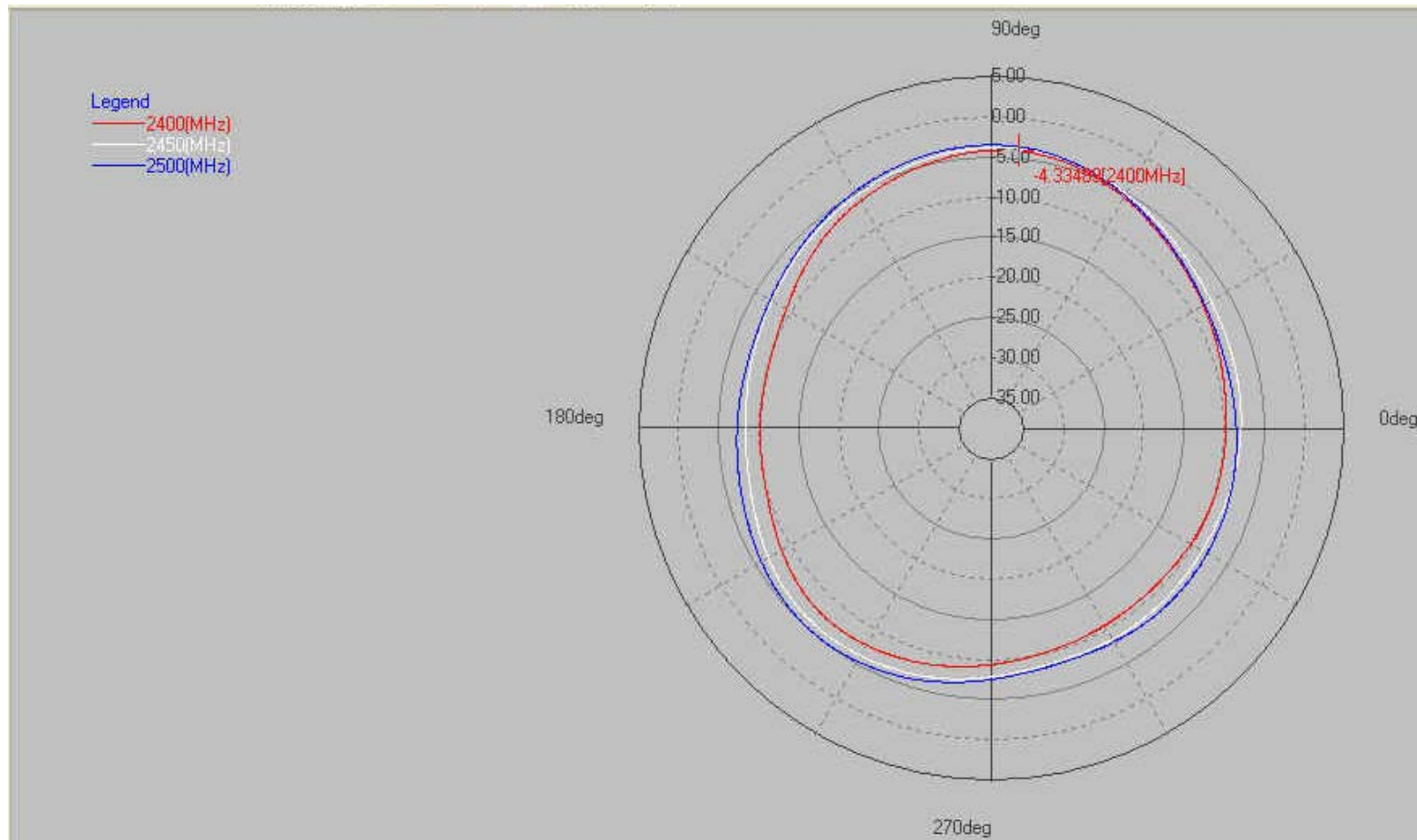
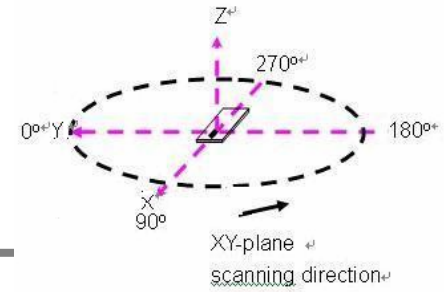


X-Y Plane Horizontal Polarization



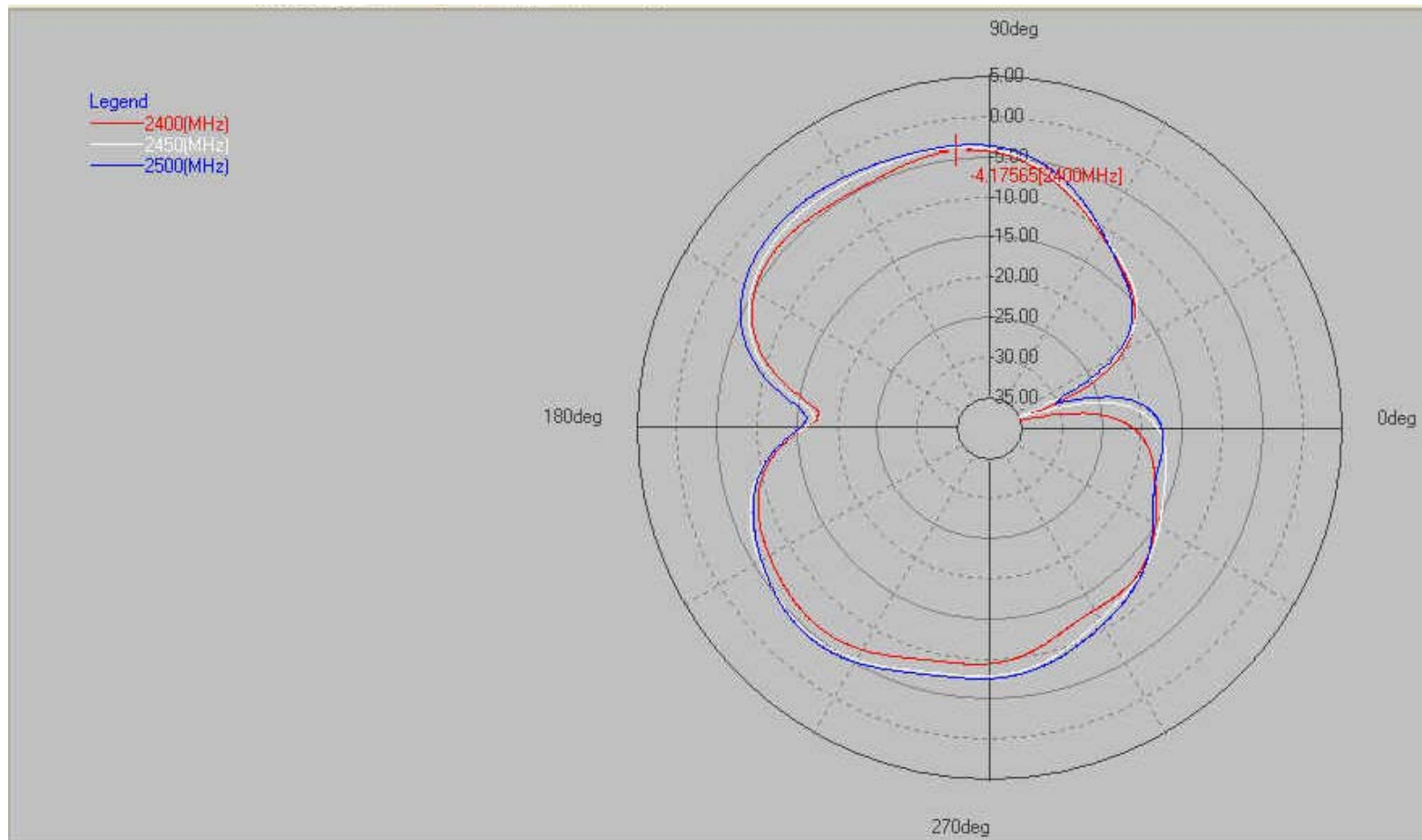
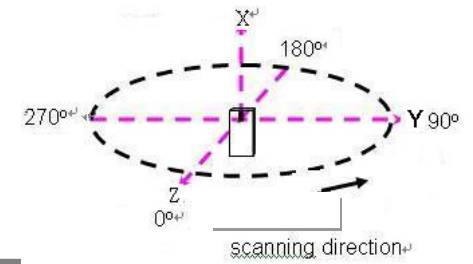


X-Y Plane Vertical Polarization



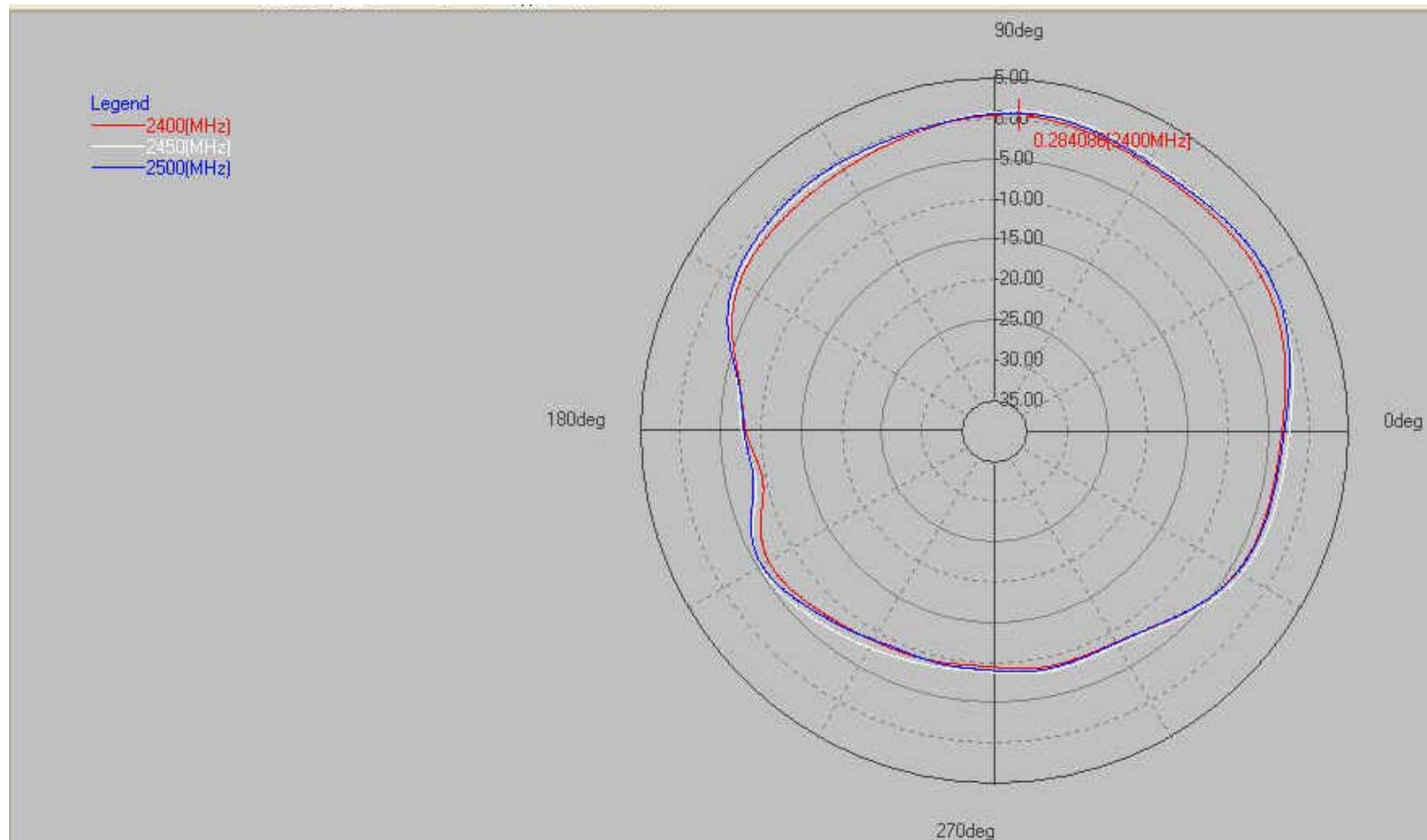
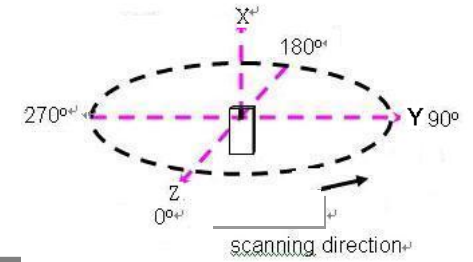


Y-Z Plane Horizontal Polarization

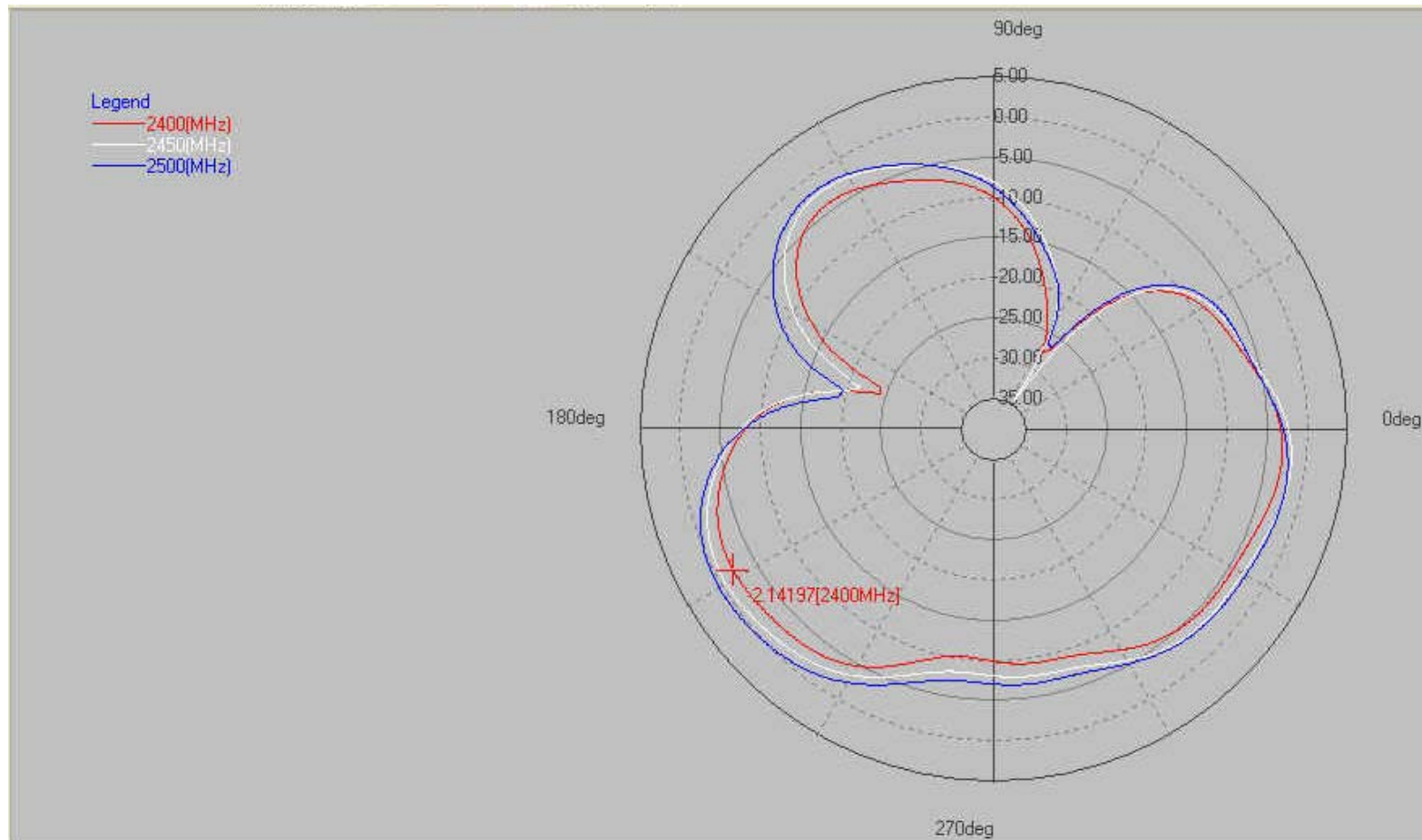
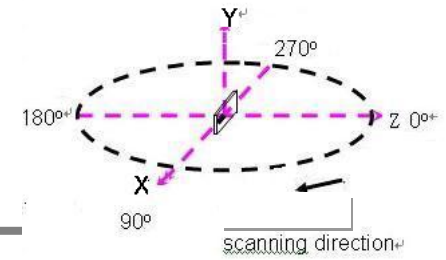




Y-Z Plane Vertical Polarization

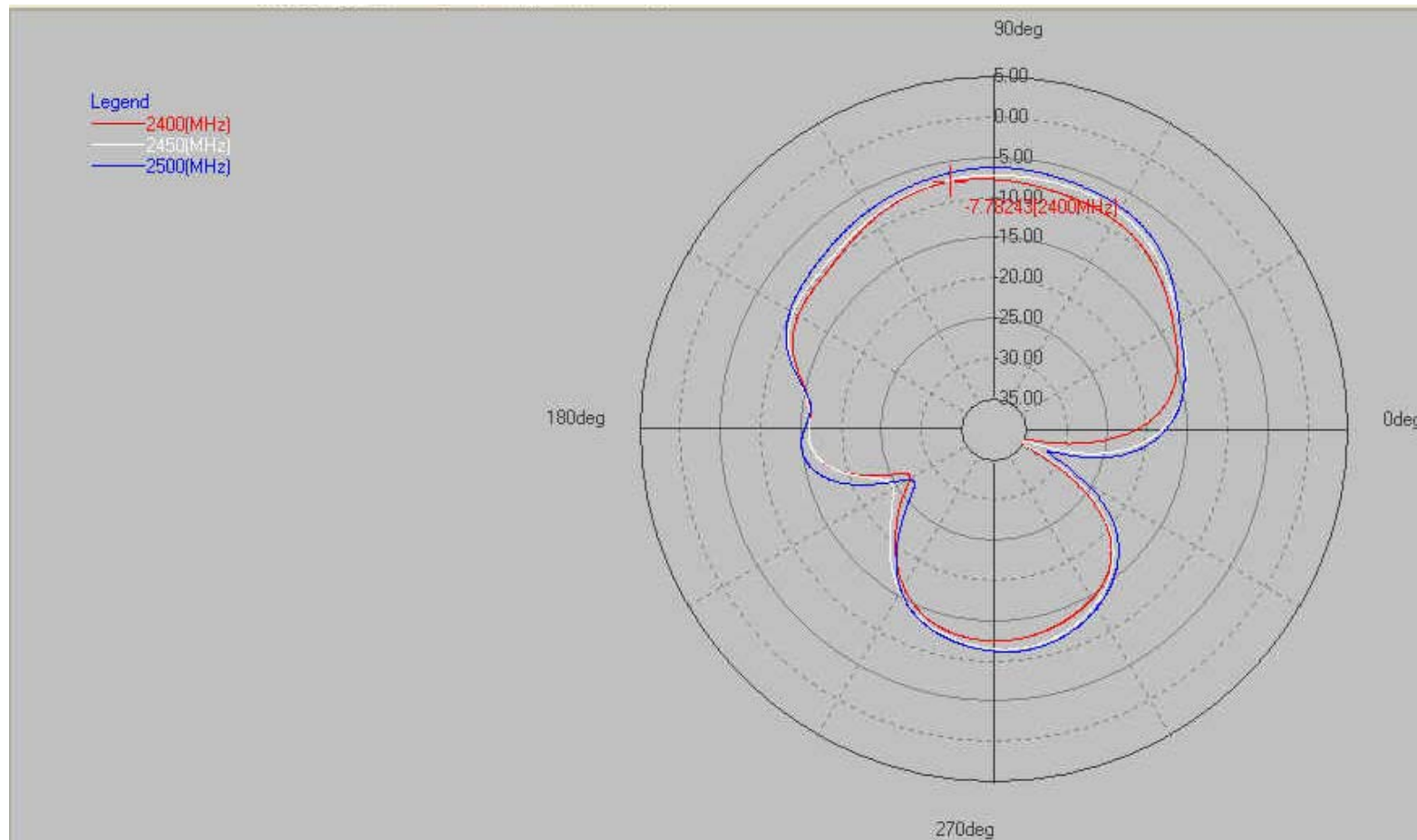
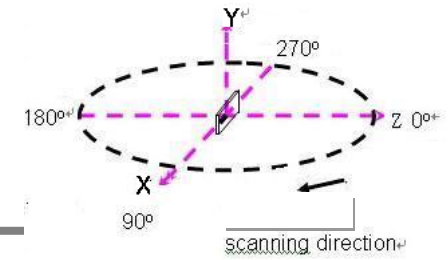


X-Z Plane Horizontal Polarization





X-Z Plane Vertical Polarization





Gain(Hor. & Ver.)

XY –Hor.

Frequency(GHz)	Max Value(dBi)	Average(dBi)
2.4	0.9	-4.34
2.45	1.62	-3.63
2.5	1.71	-3.37

XY –Ver.

Frequency(GHz)	Max Value(dBi)	Average(dBi)
2.4	-4.33	-8
2.45	-4.01	-6.78
2.5	-3.71	-6.45

YZ –Hor.

Frequency(GHz)	Max Value(dBi)	Average(dBi)
2.4	-4.18	-8.59
2.45	-3.35	-7.61
2.5	-2.45	-7.16

YZ –Ver.

Frequency(GHz)	Max Value(dBi)	Average(dBi)
2.4	0.28	-3.39
2.45	0.94	-2.72
2.5	0.63	-2.88

XZ –Hor.

Frequency(GHz)	Max Value(dBi)	Average(dBi)
2.4	-2.14	-6.34
2.45	-0.54	-4.94
2.5	-0.44	-4.36

XZ –Ver.

Frequency(GHz)	Max Value(dBi)	Average(dBi)
2.4	-7.78	-12.47
2.45	-7.43	-11.74
2.5	-6.49	-11.1



Gain (Total: Ver. + Hor.)

XY-total

Frequency(GHz)	Max. Value (dBi)	Average (dBi)
2.4	1.83	-2.79
2.45	2.5	-1.91
2.5	2.65	-1.63

YZ-total

Frequency(GHz)	Max. Value (dBi)	Average (dBi)
2.4	1.46	-2.24
2.45	1.91	-1.5
2.5	1.83	-1.15

ZX-total

Frequency(GHz)	Max. Value (dBi)	Average (dBi)
2.4	-2.13	-5.39
2.45	-0.52	-4.11
2.5	0.44	-3.53