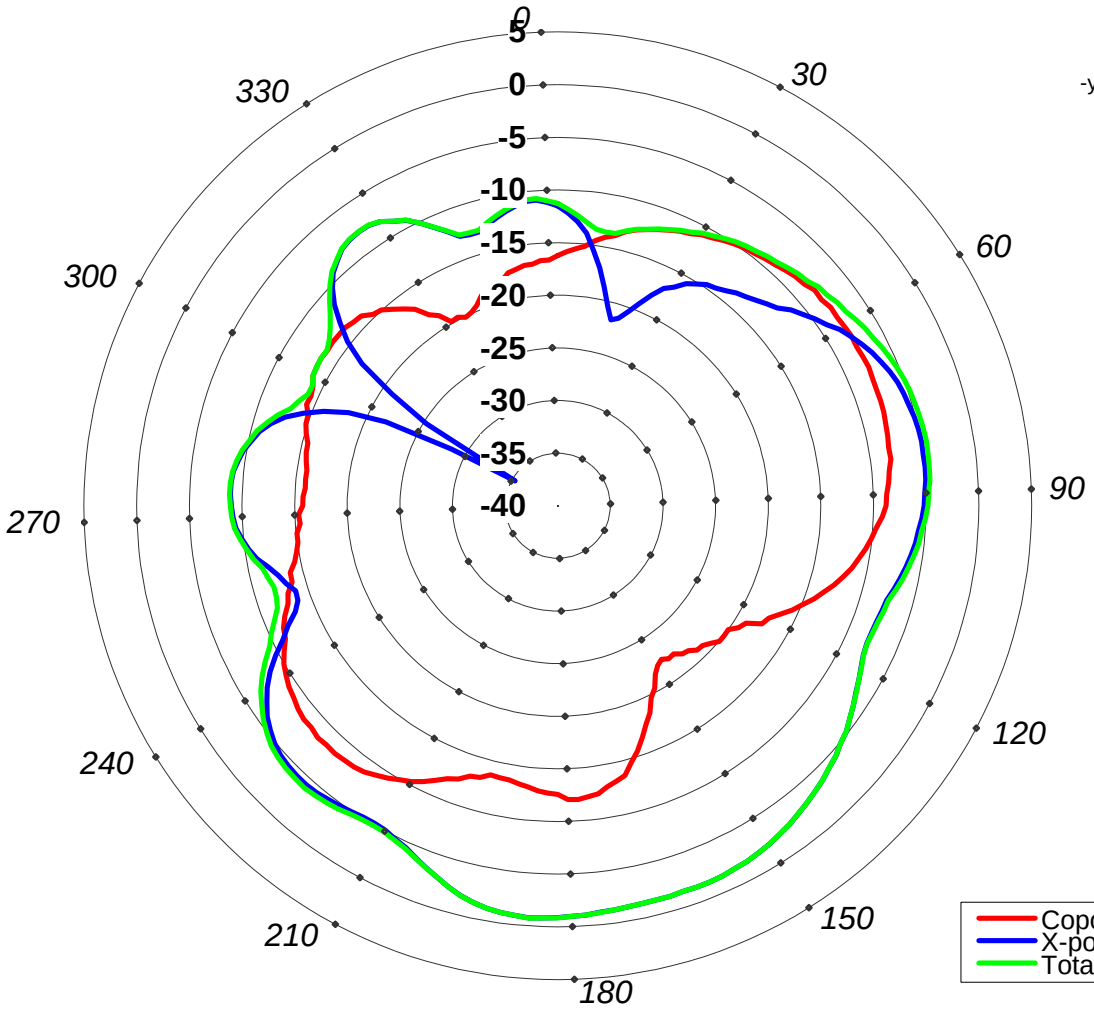
MC 9090 (802.11BG) ANT 1 (MAIN)

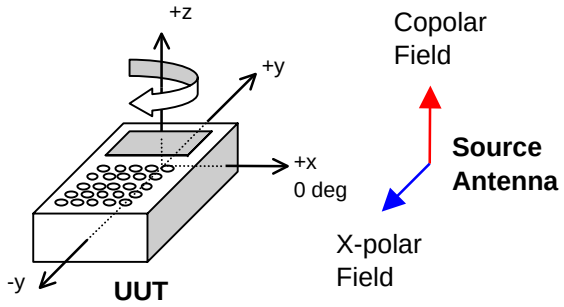
		AZ (H-plane)			EL (E-plane), phi = 0deg			EL (E-plane), phi = 90deg		
Copolar	**UNITS**	**2400MHz**	**2440MHz**	**2485MHz**	**2400MHz**	**2440MHz**	**2485MHz**	**2400MHz**	**2440MHz**	**2485MHz**
Avg Gain	**dBi**	-11.95	-12.14	-11.21	-12.39	-12.76	-13.39	-6.48	-7.19	-8.38
Peak Gain	**dBi**	-7.68	-7.20	-7.50	-8.93	-6.71	-9.45	-1.23	-1.81	-2.58
Total Angle >= -6dBi	**deg**	0.00	0.00	0.00	0.00	0.00	0.00	100.00	76.00	80.00
Total Angle >= -2dBi	**deg**	0.00	0.00	0.00	0.00	0.00	0.00	24.00	10.00	0.00
X-polar	**UNITS**	**2400MHz**	**2440MHz**	**2485MHz**	**2400MHz**	**2440MHz**	**2485MHz**	**2400MHz**	**2440MHz**	**2485MHz**
Avg Gain	**dBi**	-6.12	-8.26	-8.34	-3.58	-5.31	-5.28	-8.89	-11.66	-12.46
Peak Gain	**dBi**	-0.76	-2.08	-2.27	-0.34	-1.88	-1.75	-3.71	-6.95	-6.63
Total Angle >= -6dBi	**deg**	138.00	64.00	70.00	206.00	194.00	184.00	72.00	0.00	0.00
Total Angle >= -2dBi	**deg**	46.00	0.00	0.00	160.00	26.00	32.00	0.00	0.00	0.00
Total Field	**UNITS**	**2400MHz**	**2440MHz**	**2485MHz**	**2400MHz**	**2440MHz**	**2485MHz**	**2400MHz**	**2440MHz**	**2485MHz**
Avg Gain	**dBi**	-5.77	-7.57	-7.32	-3.41	-5.10	-5.11	-5.35	-6.58	-7.68
Peak Gain	**dBi**	-0.75	-2.07	-2.24	-0.34	-1.88	-1.69	-1.18	-1.80	-2.57
Total Angle >= -6dBi	**deg**	146.00	84.00	70.00	208.00	200.00	190.00	164.00	92.00	96.00
Total Angle >= -2dBi	**deg**	46.00	0.00	0.00	160.00	26.00	32.00	24.00	12.00	0.00

Data Taken By:
R. Zancola
Date:
1/9/2005

User Hold Position (deg from horizon): 0
Elevation Angle (deg): 0
Frequency 2400

Gain, AZ (H-plane)
dBi





Copolar

Avg (dBi) =	-11.9
Peak (dBi) =	-7.7
Total deg >= -6dBi =	0
Total deg >= -2dBi =	0

X-polar

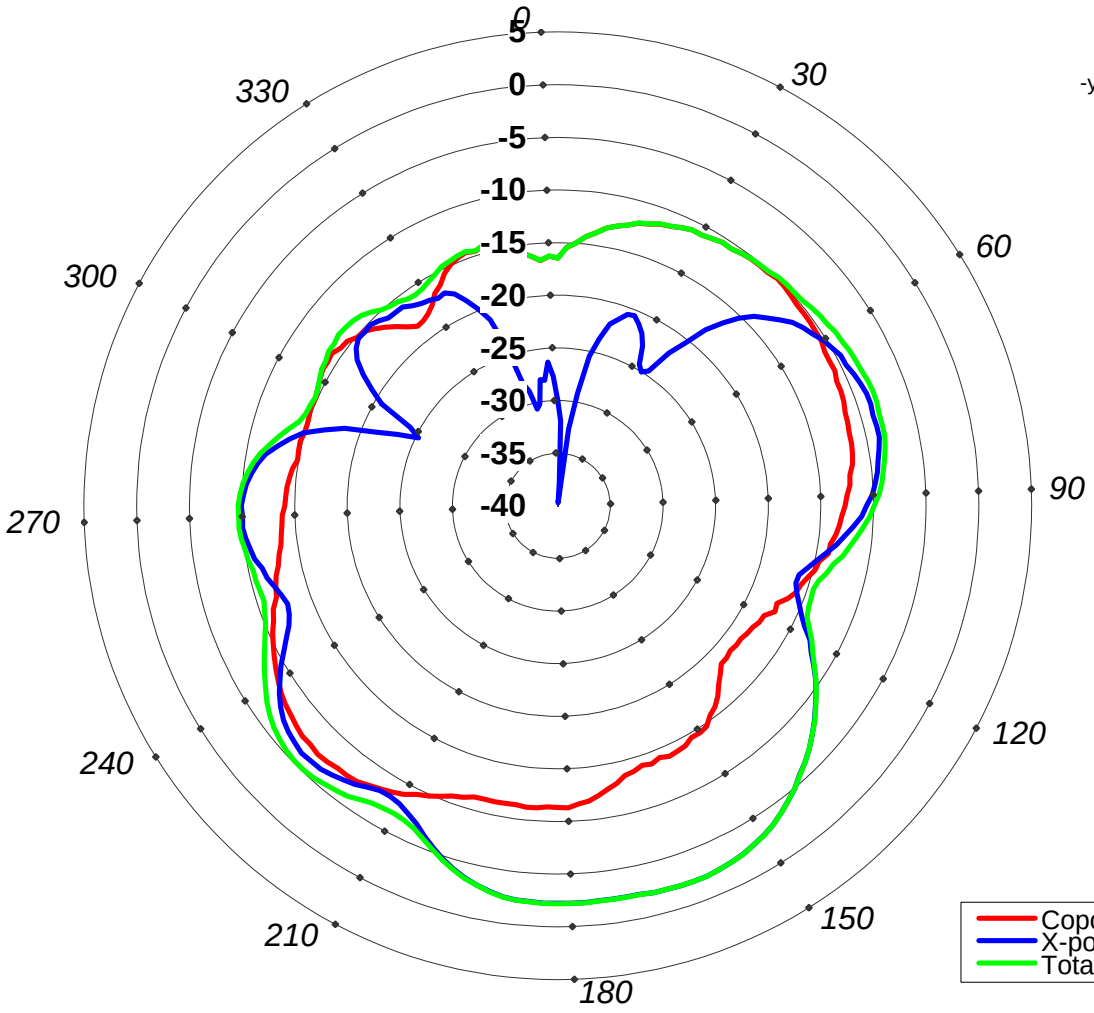
Avg (dBi) =	-6.1
Peak (dBi) =	-0.8
Total deg >= -6dBi =	138
Total deg >= -2dBi =	46

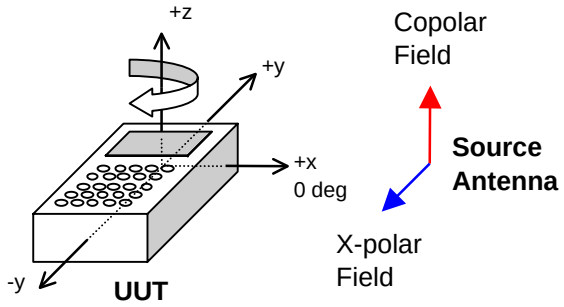
Total Field

Avg (dBi) =	-5.8
Peak (dBi) =	-0.7
Total deg >= -6dBi =	146
Total deg >= -2dBi =	46

User Hold Position (deg from horizon): 0
Elevation Angle (deg): 0
Frequency 2440

Gain, AZ (H-plane)
dBi





Copolar

Avg (dBi) =	-12.1
Peak (dBi) =	-7.2
Total deg >= -6dBi =	0
Total deg >= -2dBi =	0

X-polar

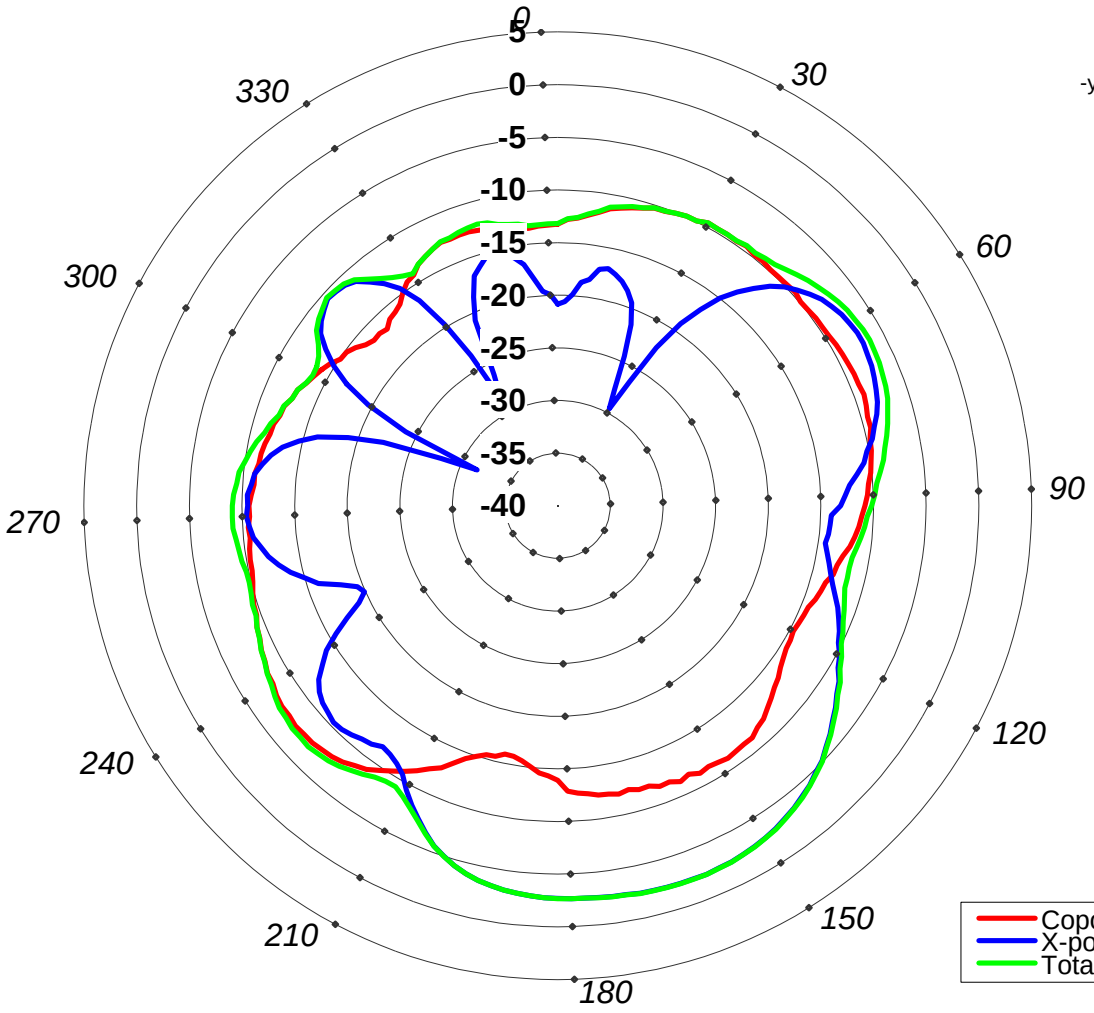
Avg (dBi) =	-8.3
Peak (dBi) =	-2.1
Total deg >= -6dBi =	64
Total deg >= -2dBi =	0

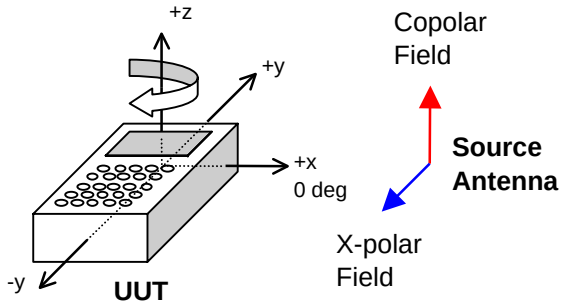
Total Field

Avg (dBi) =	-7.6
Peak (dBi) =	-2.1
Total deg >= -6dBi =	84
Total deg >= -2dBi =	0

User Hold Position (deg from horizon): 0
Elevation Angle (deg): 0
Frequency 2485

Gain, AZ (H-plane)
dBi





Copolar

Avg (dBi) =	-11.2
Peak (dBi) =	-7.5
Total deg >= -6dBi =	0
Total deg >= -2dBi =	0

X-polar

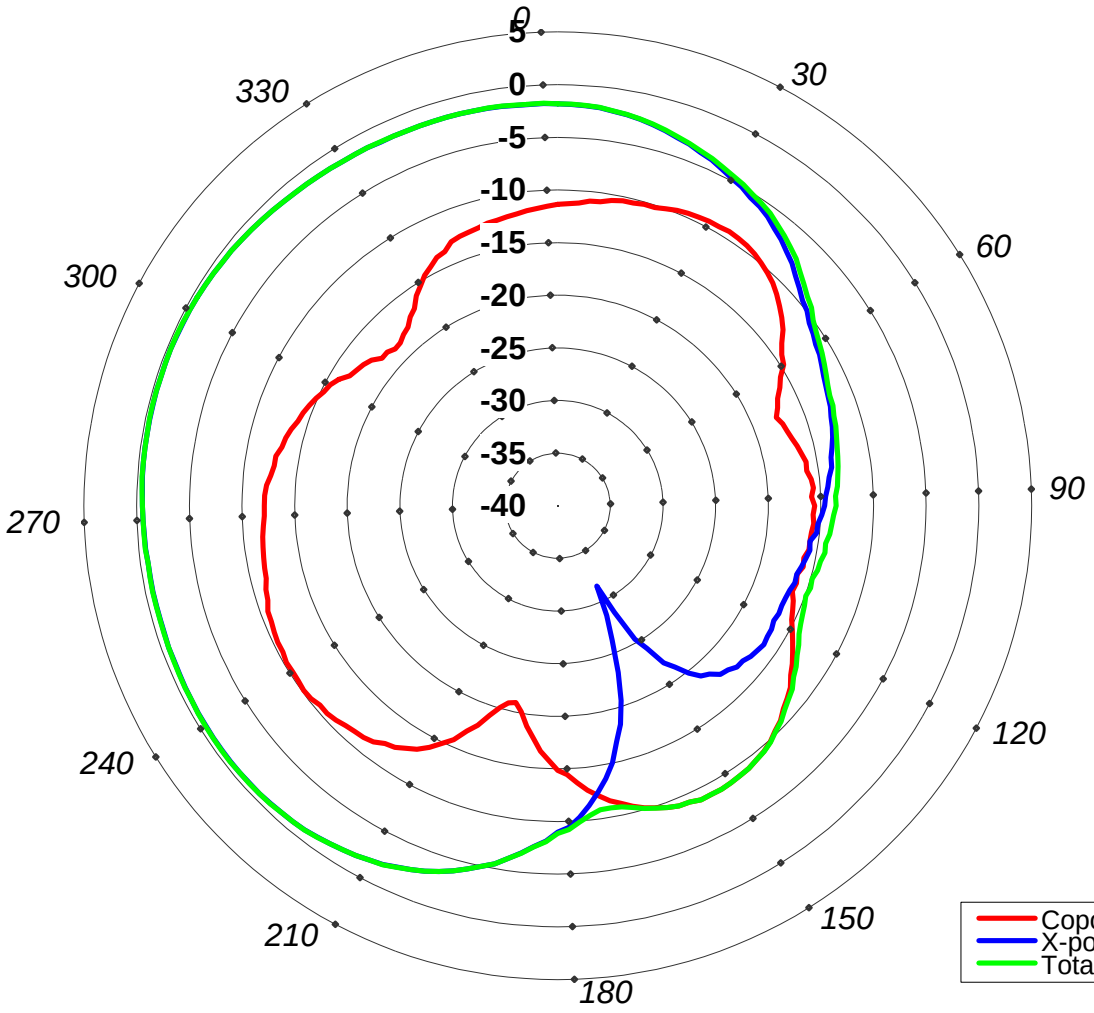
Avg (dBi) =	-8.3
Peak (dBi) =	-2.3
Total deg >= -6dBi =	70
Total deg >= -2dBi =	0

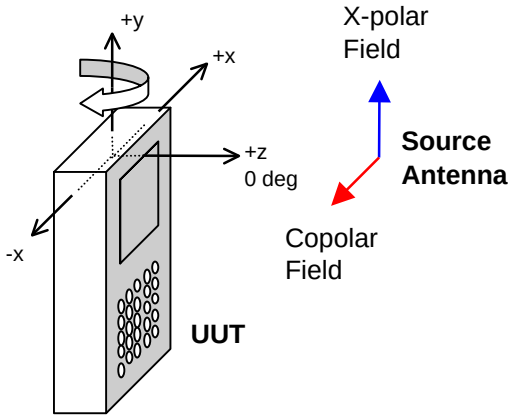
Total Field

Avg (dBi) =	-7.3
Peak (dBi) =	-2.2
Total deg >= -6dBi =	70
Total deg >= -2dBi =	0

Elevation Pattern, phi = 0 deg
Elevation Angle (deg): NA
Frequency 2400

Gain, EL (E-plane)
dBi





Copolar

Avg (dBi) =	-12.4
Peak (dBi) =	-8.9
Total deg >= -6dBi =	0
Total deg >= -2dBi =	0

X-polar

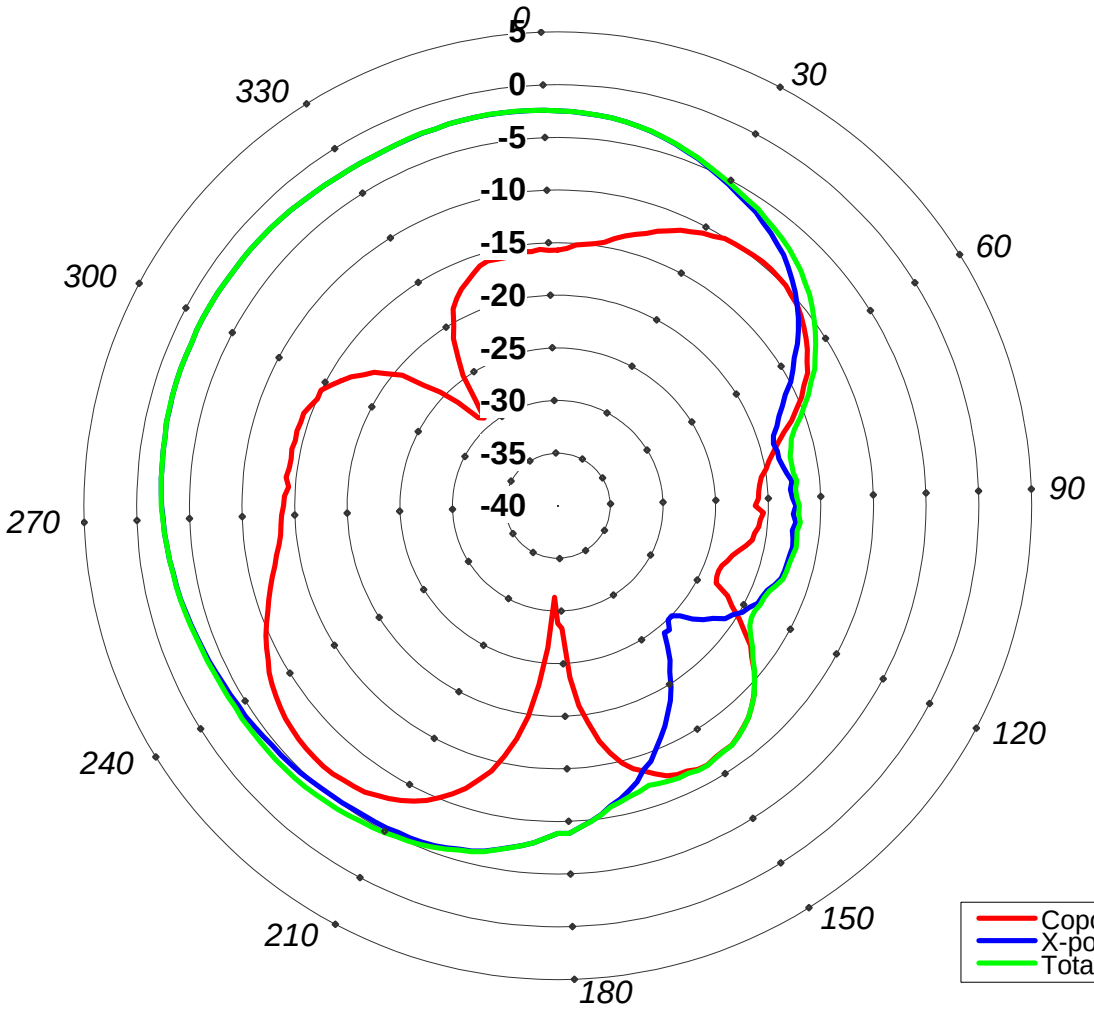
Avg (dBi) =	-3.6
Peak (dBi) =	-0.3
Total deg >= -6dBi =	206
Total deg >= -2dBi =	160

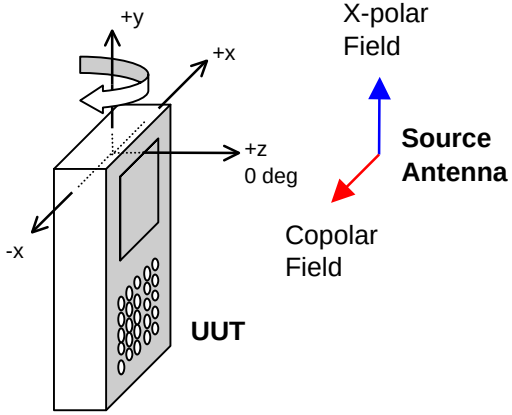
Total Field

Avg (dBi) =	-3.4
Peak (dBi) =	-0.3
Total deg >= -6dBi =	208
Total deg >= -2dBi =	160

Elevation Pattern, phi = 0 deg
Elevation Angle (deg): NA
Frequency 2440

Gain, EL (E-plane)
dBi





Copolar

Avg (dBi) =	-12.8
Peak (dBi) =	-6.7
Total deg >= -6dBi =	0
Total deg >= -2dBi =	0

X-polar

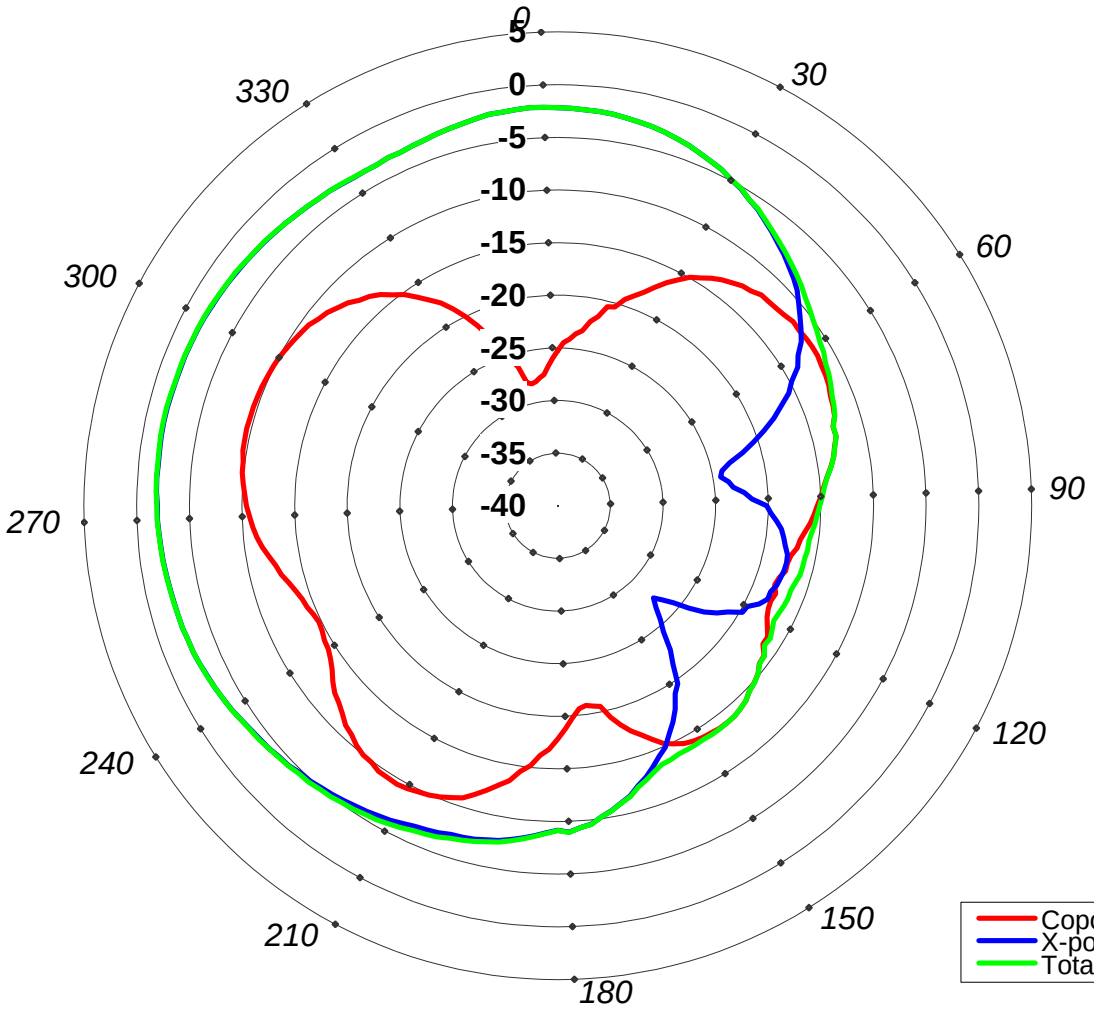
Avg (dBi) =	-5.3
Peak (dBi) =	-1.9
Total deg >= -6dBi =	194
Total deg >= -2dBi =	26

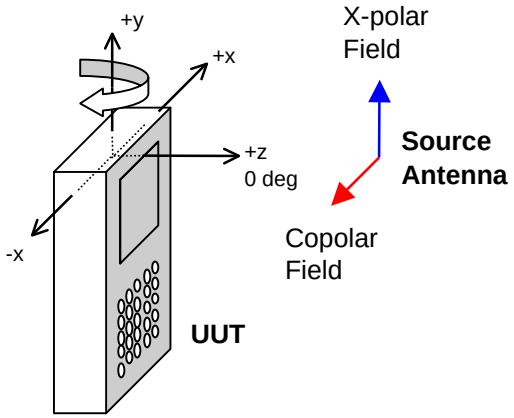
Total Field

Avg (dBi) =	-5.1
Peak (dBi) =	-1.9
Total deg >= -6dBi =	200
Total deg >= -2dBi =	26

Elevation Pattern, phi = 0 deg
Elevation Angle (deg): NA
Frequency 2485

Gain, EL (E-plane)
dBi





Copolar

Avg (dBi) =	-13.4
Peak (dBi) =	-9.5
Total deg >= -6dBi =	0
Total deg >= -2dBi =	0

X-polar

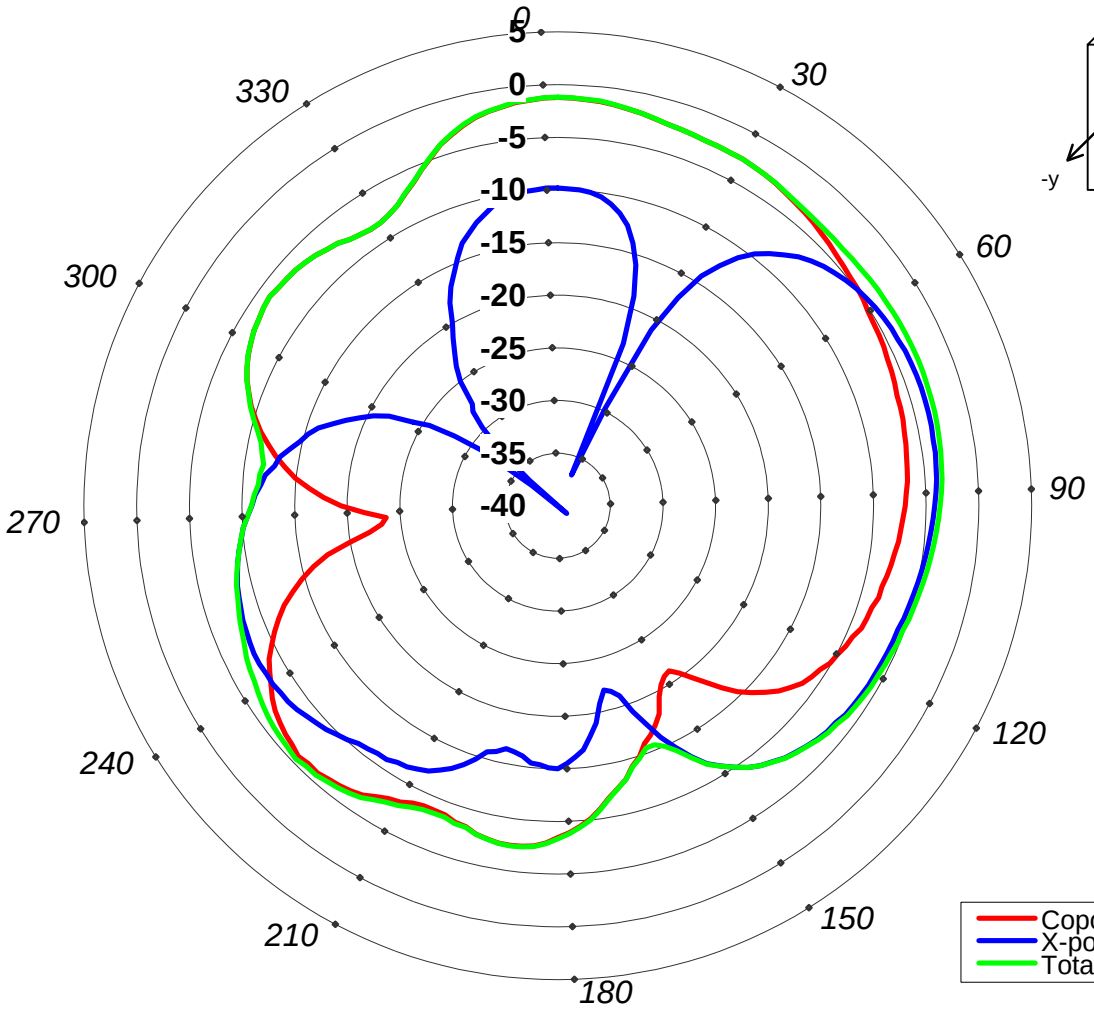
Avg (dBi) =	-5.3
Peak (dBi) =	-1.7
Total deg >= -6dBi =	184
Total deg >= -2dBi =	32

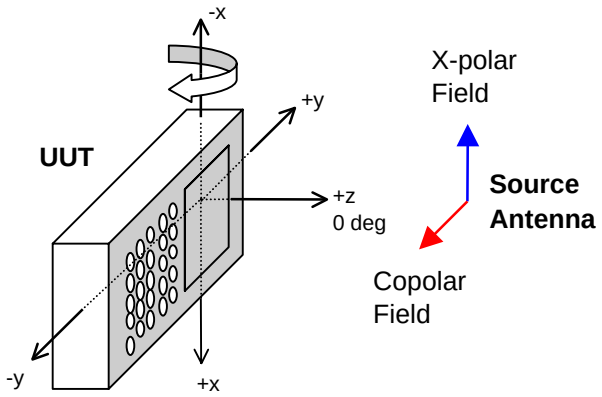
Total Field

Avg (dBi) =	-5.1
Peak (dBi) =	-1.7
Total deg >= -6dBi =	190
Total deg >= -2dBi =	32

Elevation Pattern, phi = 90 deg
Elevation Angle (deg): NA
Frequency 2400

Gain, EL (E-plane)
dBi





Copolar

Avg (dBi) =	-6.5
Peak (dBi) =	-1.2
Total deg >= -6dBi =	100
Total deg >= -2dBi =	24

X-polar

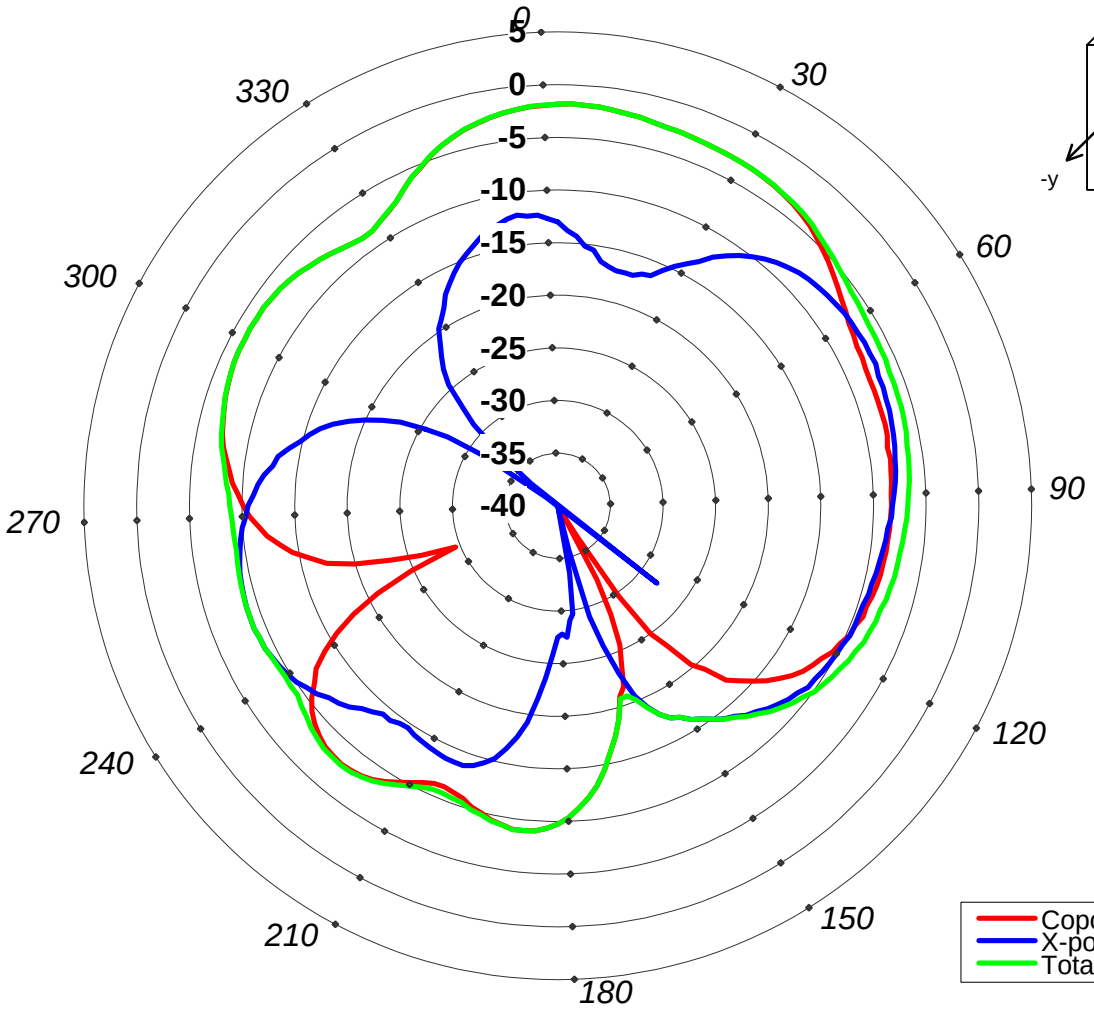
Avg (dBi) =	-8.9
Peak (dBi) =	-3.7
Total deg >= -6dBi =	72
Total deg >= -2dBi =	0

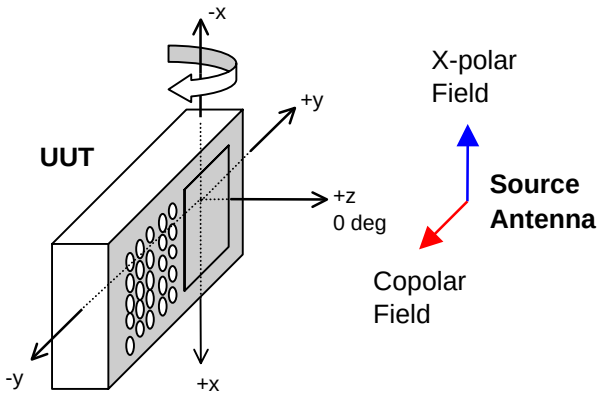
Total Field

Avg (dBi) =	-5.4
Peak (dBi) =	-1.2
Total deg >= -6dBi =	164
Total deg >= -2dBi =	24

Elevation Pattern, phi = 90 deg
Elevation Angle (deg): NA
Frequency 2440

Gain, EL (E-plane)
dBi





Copolar

Avg (dBi) =	-7.2
Peak (dBi) =	-1.8
Total deg >= -6dBi =	76
Total deg >= -2dBi =	10

X-polar

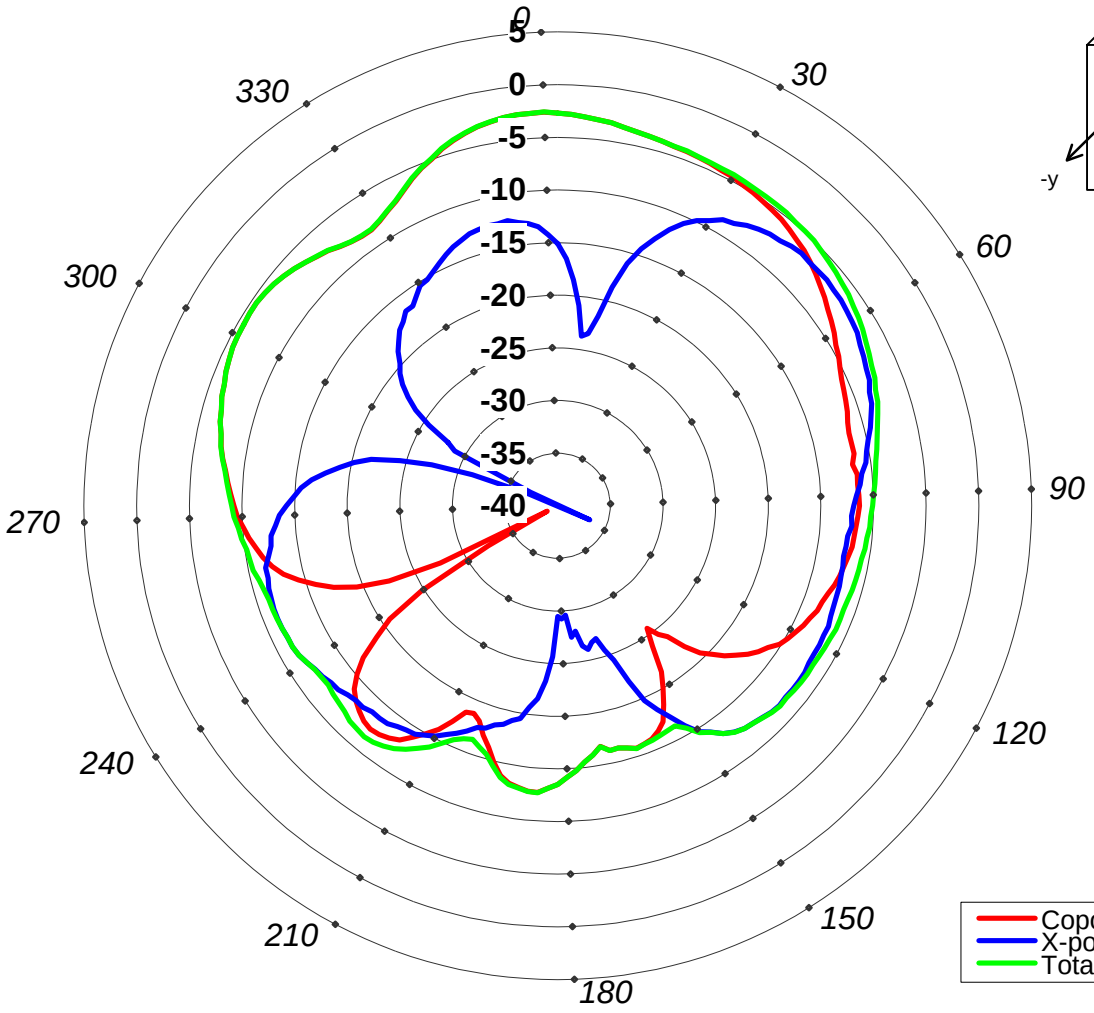
Avg (dBi) =	-11.7
Peak (dBi) =	-7.0
Total deg >= -6dBi =	0
Total deg >= -2dBi =	0

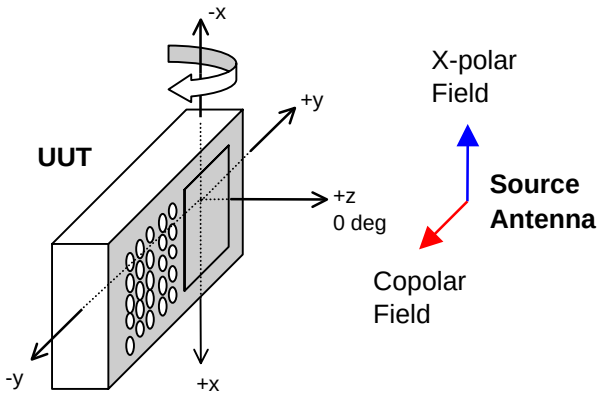
Total Field

Avg (dBi) =	-6.6
Peak (dBi) =	-1.8
Total deg >= -6dBi =	92
Total deg >= -2dBi =	12

Elevation Pattern, phi = 90 deg
Elevation Angle (deg): NA
Frequency 2485

Gain, EL (E-plane)
dBi





Copolar

Avg (dBi) =	-8.4
Peak (dBi) =	-2.6
Total deg >= -6dBi =	80
Total deg >= -2dBi =	0

X-polar

Avg (dBi) =	-12.5
Peak (dBi) =	-6.6
Total deg >= -6dBi =	0
Total deg >= -2dBi =	0

Total Field

Avg (dBi) =	-7.7
Peak (dBi) =	-2.6
Total deg >= -6dBi =	96
Total deg >= -2dBi =	0