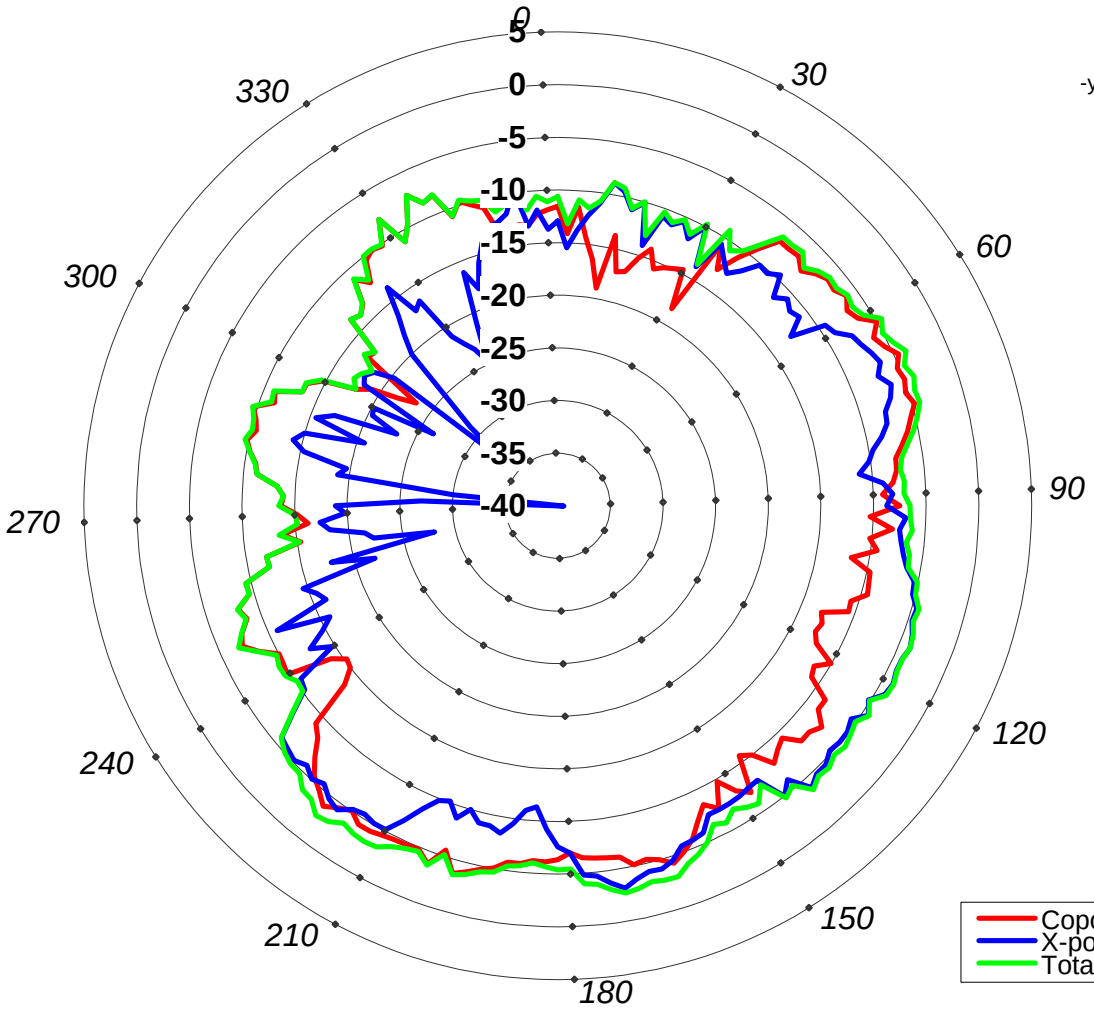
MC 9090 EV2B++ (802.11A) Ant 1 (MAIN)

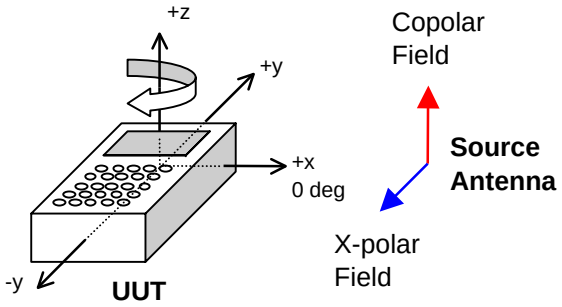
		AZ (H-plane)			EL (E-plane), phi = 0deg			EL (E-plane), phi = 90deg		
Copolar	**UNITS**	**5150MHz**	**5350MHz**	**5825MHz**	**5150MHz**	**5350MHz**	**5825MHz**	**5150MHz**	**5350MHz**	**5825MHz**
Avg Gain	**dBi**	-8.35	-8.16	-9.32	-8.40	-11.63	-13.67	-10.52	-7.37	-6.93
Peak Gain	**dBi**	-3.69	-2.04	-1.74	-2.54	-5.19	-8.28	-3.30	-2.03	-0.87
Total Angle >= -6dBi	**deg**	66.00	66.00	54.00	66.00	14.00	0.00	36.00	114.00	120.00
Total Angle >= -2dBi	**deg**	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	22.00
X-polar	**UNITS**	**5150MHz**	**5350MHz**	**5825MHz**	**5150MHz**	**5350MHz**	**5825MHz**	**5150MHz**	**5350MHz**	**5825MHz**
Avg Gain	**dBi**	-8.52	-6.81	-5.84	-10.22	-7.06	-4.58	-14.48	-12.80	-10.71
Peak Gain	**dBi**	-3.13	-0.51	-0.05	-5.08	-1.94	1.00	-8.21	-6.96	-4.73
Total Angle >= -6dBi	**deg**	84.00	114.00	152.00	12.00	104.00	168.00	0.00	0.00	32.00
Total Angle >= -2dBi	**deg**	0.00	28.00	36.00	0.00	4.00	88.00	0.00	0.00	0.00
Total Field	**UNITS**	**5150MHz**	**5350MHz**	**5825MHz**	**5150MHz**	**5350MHz**	**5825MHz**	**5150MHz**	**5350MHz**	**5825MHz**
Avg Gain	**dBi**	-6.60	-5.44	-4.86	-7.44	-6.70	-4.43	-9.83	-6.94	-6.12
Peak Gain	**dBi**	-2.64	-0.33	-0.04	-2.23	-1.75	1.00	-3.21	-1.95	-0.84
Total Angle >= -6dBi	**deg**	144.00	172.00	194.00	88.00	108.00	172.00	36.00	120.00	162.00
Total Angle >= -2dBi	**deg**	0.00	40.00	44.00	0.00	6.00	88.00	0.00	2.00	24.00

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

User Hold Position (deg from horizon): 0
Elevation Angle (deg): 0
Frequency 5150

Gain, AZ (H-plane)
dBi





Copolar

Avg (dBi) =	-8.3
Peak (dBi) =	-3.7
Total deg >= -6dBi =	66
Total deg >= -2dBi =	0

X-polar

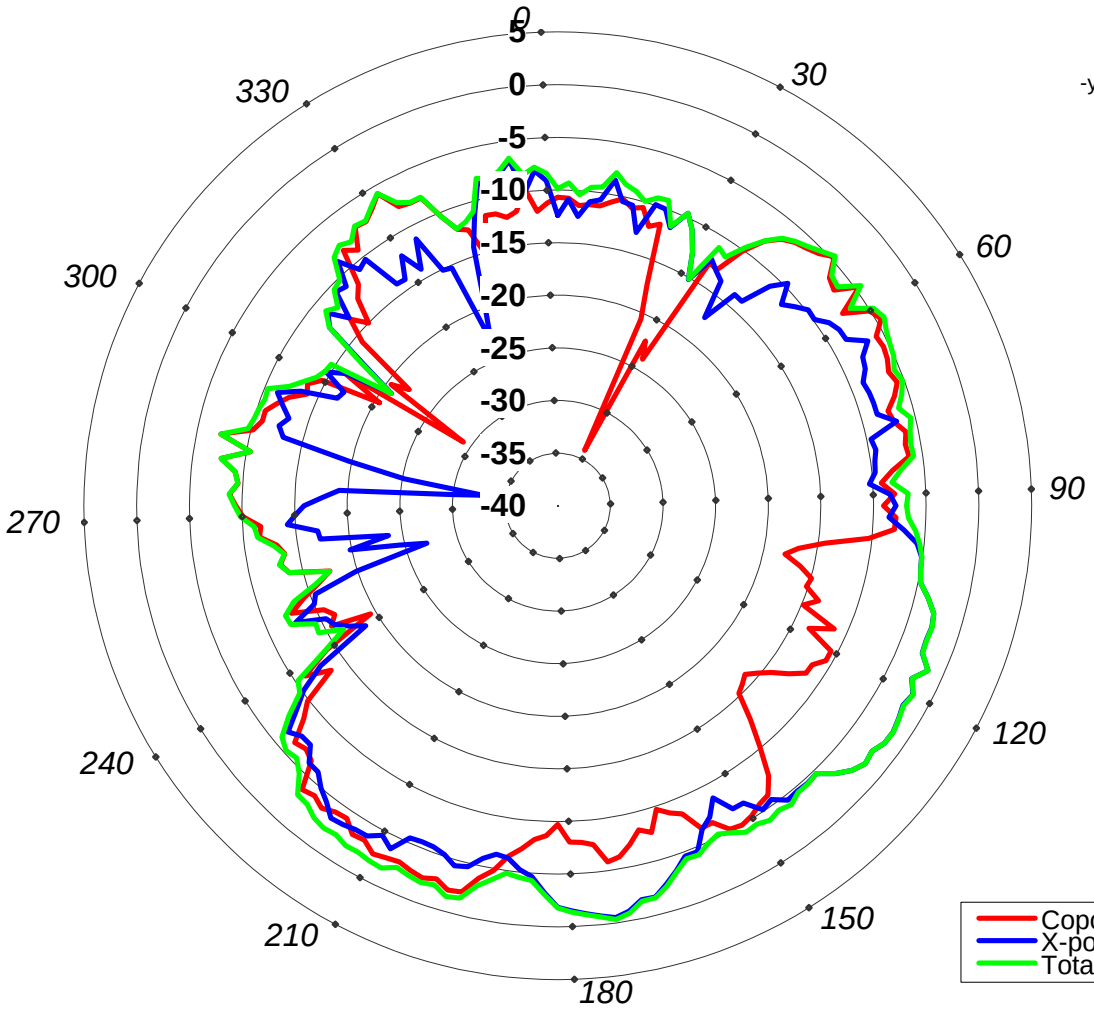
Avg (dBi) =	-8.5
Peak (dBi) =	-3.1
Total deg >= -6dBi =	84
Total deg >= -2dBi =	0

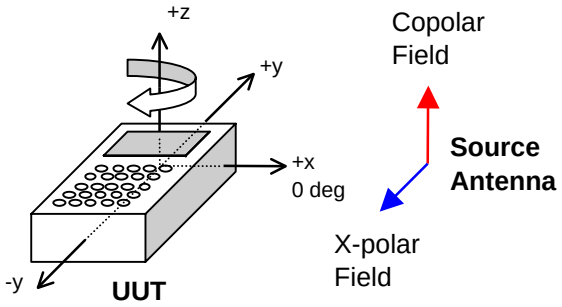
Total Field

Avg (dBi) =	-6.6
Peak (dBi) =	-2.6
Total deg >= -6dBi =	144
Total deg >= -2dBi =	0

User Hold Position (deg from horizon): 0
Elevation Angle (deg): 0
Frequency 5350

Gain, AZ (H-plane)
dBi





Copolar

Avg (dBi) =	-8.2
Peak (dBi) =	-2.0
Total deg >= -6dBi =	66
Total deg >= -2dBi =	0

X-polar

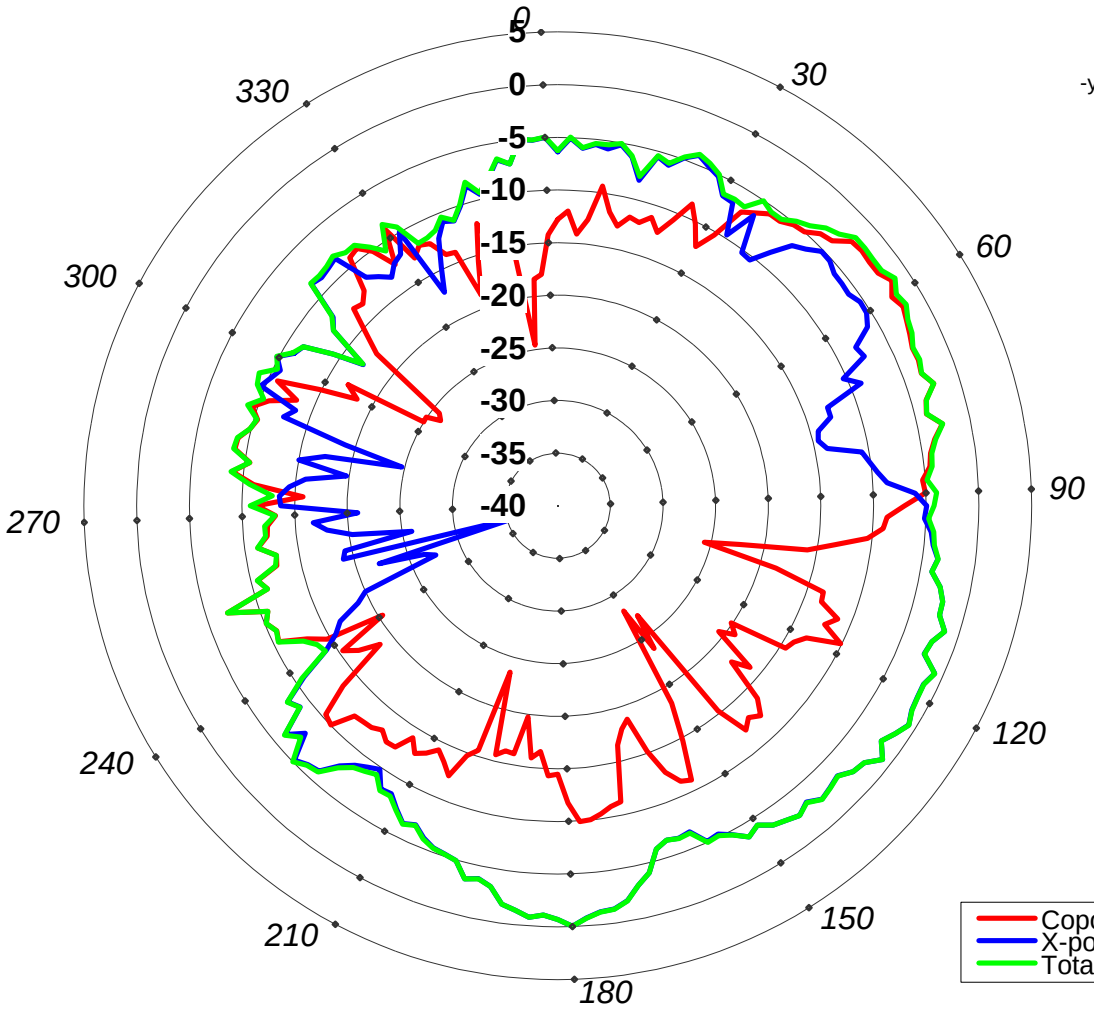
Avg (dBi) =	-6.8
Peak (dBi) =	-0.5
Total deg >= -6dBi =	114
Total deg >= -2dBi =	28

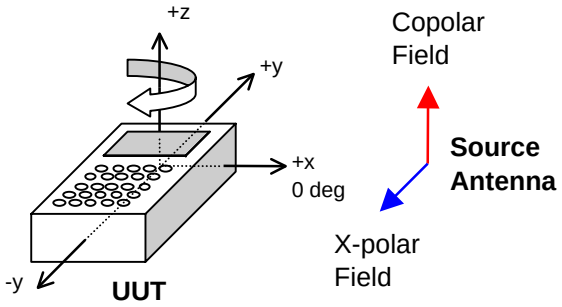
Total Field

Avg (dBi) =	-5.4
Peak (dBi) =	-0.3
Total deg >= -6dBi =	172
Total deg >= -2dBi =	40

User Hold Position (deg from horizon): 0
Elevation Angle (deg): 0
Frequency 5825

Gain, AZ (H-plane)
dBi





Copolar

Avg (dBi) =	-9.3
Peak (dBi) =	-1.7
Total deg >= -6dBi =	54
Total deg >= -2dBi =	2

X-polar

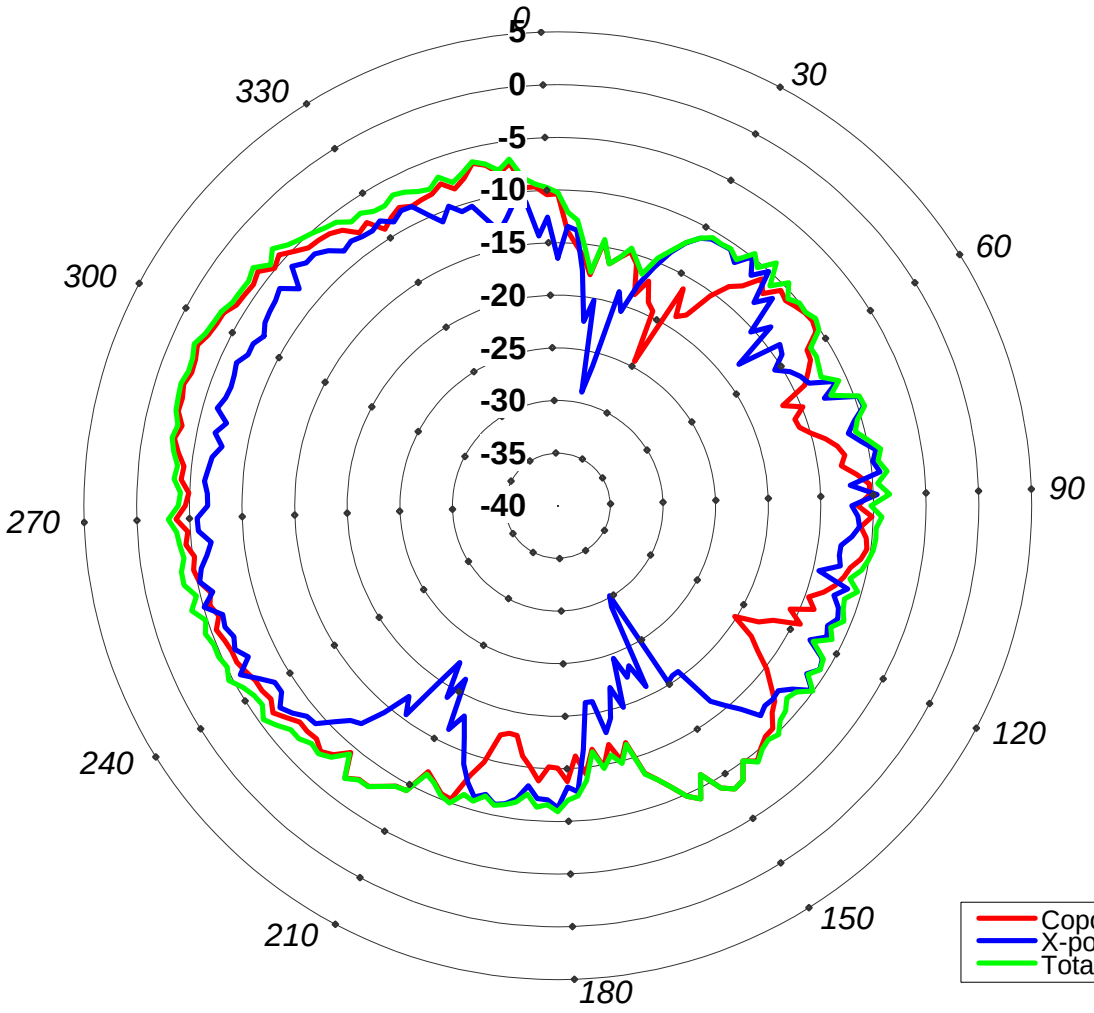
Avg (dBi) =	-5.8
Peak (dBi) =	0.0
Total deg >= -6dBi =	152
Total deg >= -2dBi =	36

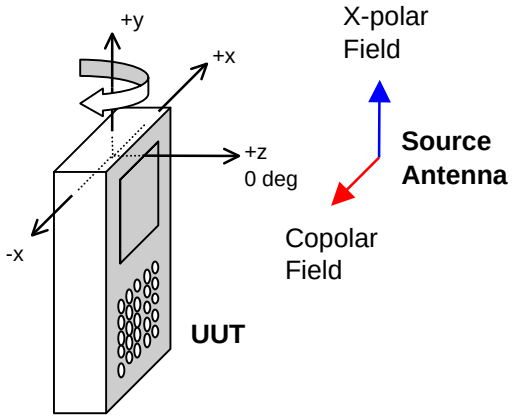
Total Field

Avg (dBi) =	-4.9
Peak (dBi) =	0.0
Total deg >= -6dBi =	194
Total deg >= -2dBi =	44

Elevation Pattern, phi = 0 deg
Elevation Angle (deg): NA
Frequency 5150

Gain, EL (E-plane)
dBi





Copolar

Avg (dBi) =	-8.4
Peak (dBi) =	-2.5
Total deg >= -6dBi =	66
Total deg >= -2dBi =	0

X-polar

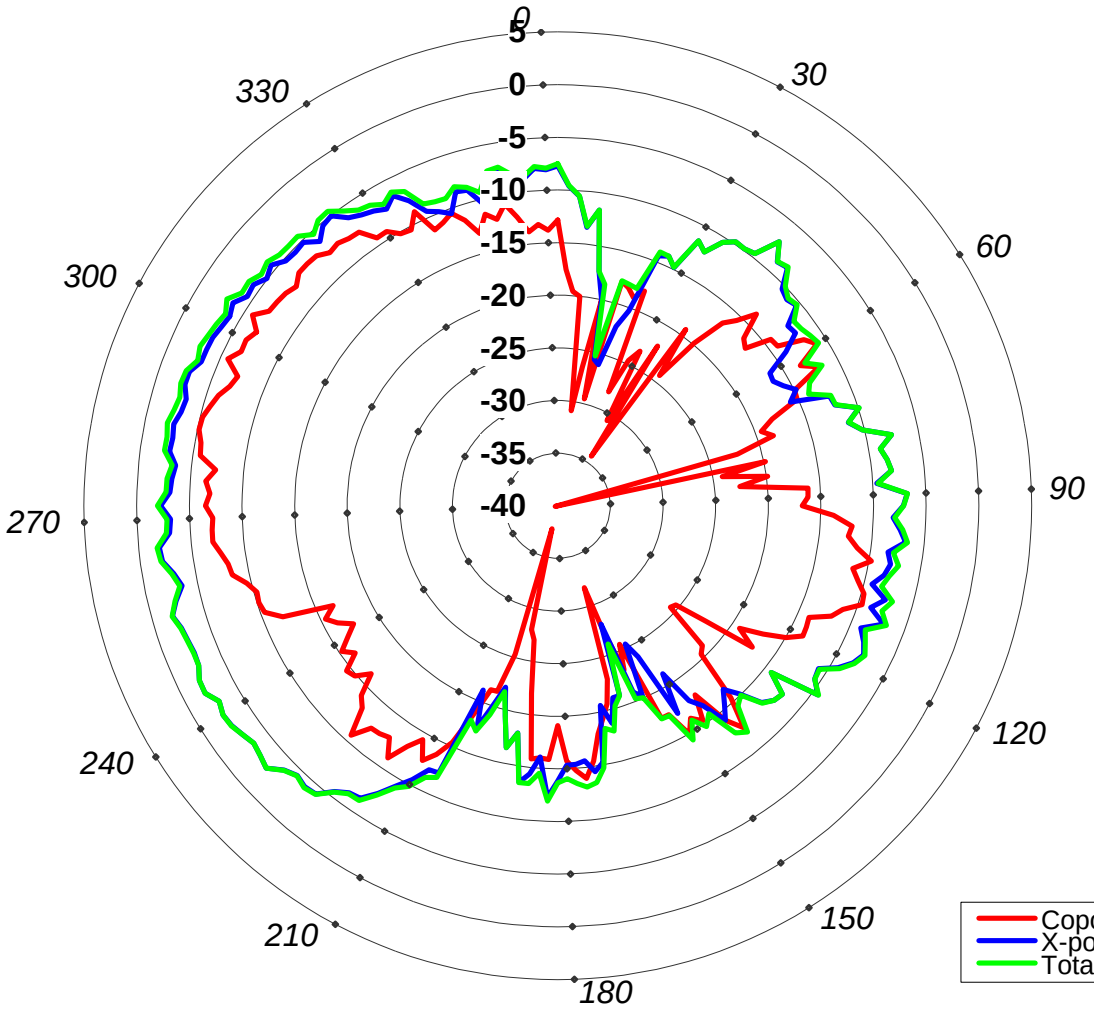
Avg (dBi) =	-10.2
Peak (dBi) =	-5.1
Total deg >= -6dBi =	12
Total deg >= -2dBi =	0

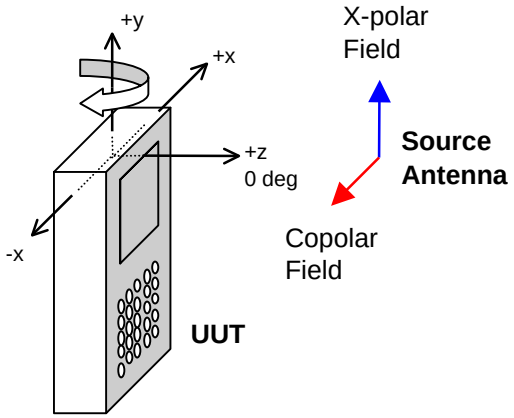
Total Field

Avg (dBi) =	-7.4
Peak (dBi) =	-2.2
Total deg >= -6dBi =	88
Total deg >= -2dBi =	0

Elevation Pattern, phi = 0 deg
Elevation Angle (deg): NA
Frequency 5350

Gain, EL (E-plane)
dBi





Copolar

Avg (dBi) =	-11.6
Peak (dBi) =	-5.2
Total deg >= -6dBi =	14
Total deg >= -2dBi =	0

X-polar

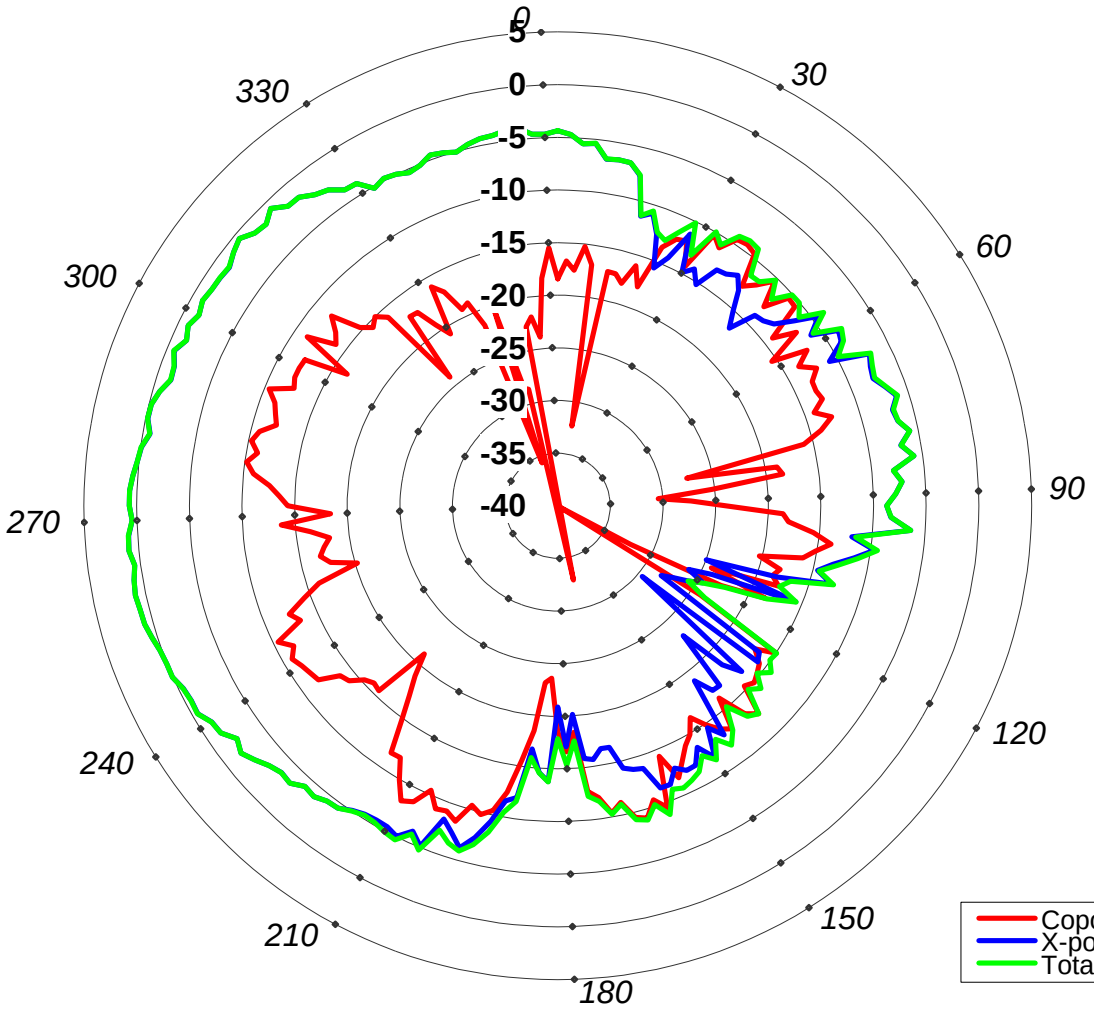
Avg (dBi) =	-7.1
Peak (dBi) =	-1.9
Total deg >= -6dBi =	104
Total deg >= -2dBi =	4

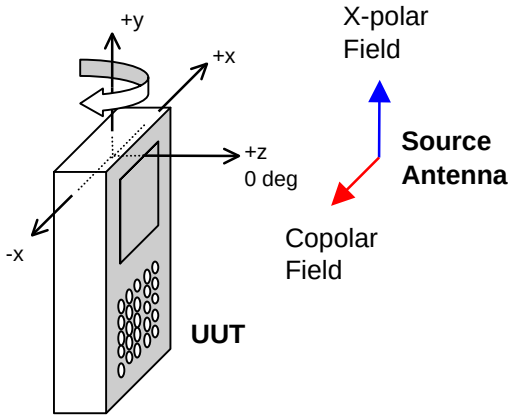
Total Field

Avg (dBi) =	-6.7
Peak (dBi) =	-1.7
Total deg >= -6dBi =	108
Total deg >= -2dBi =	6

Elevation Pattern, phi = 0 deg
Elevation Angle (deg): NA
Frequency 5825

Gain, EL (E-plane)
dBi





Copolar

Avg (dBi) =	-13.7
Peak (dBi) =	-8.3
Total deg >= -6dBi =	0
Total deg >= -2dBi =	0

X-polar

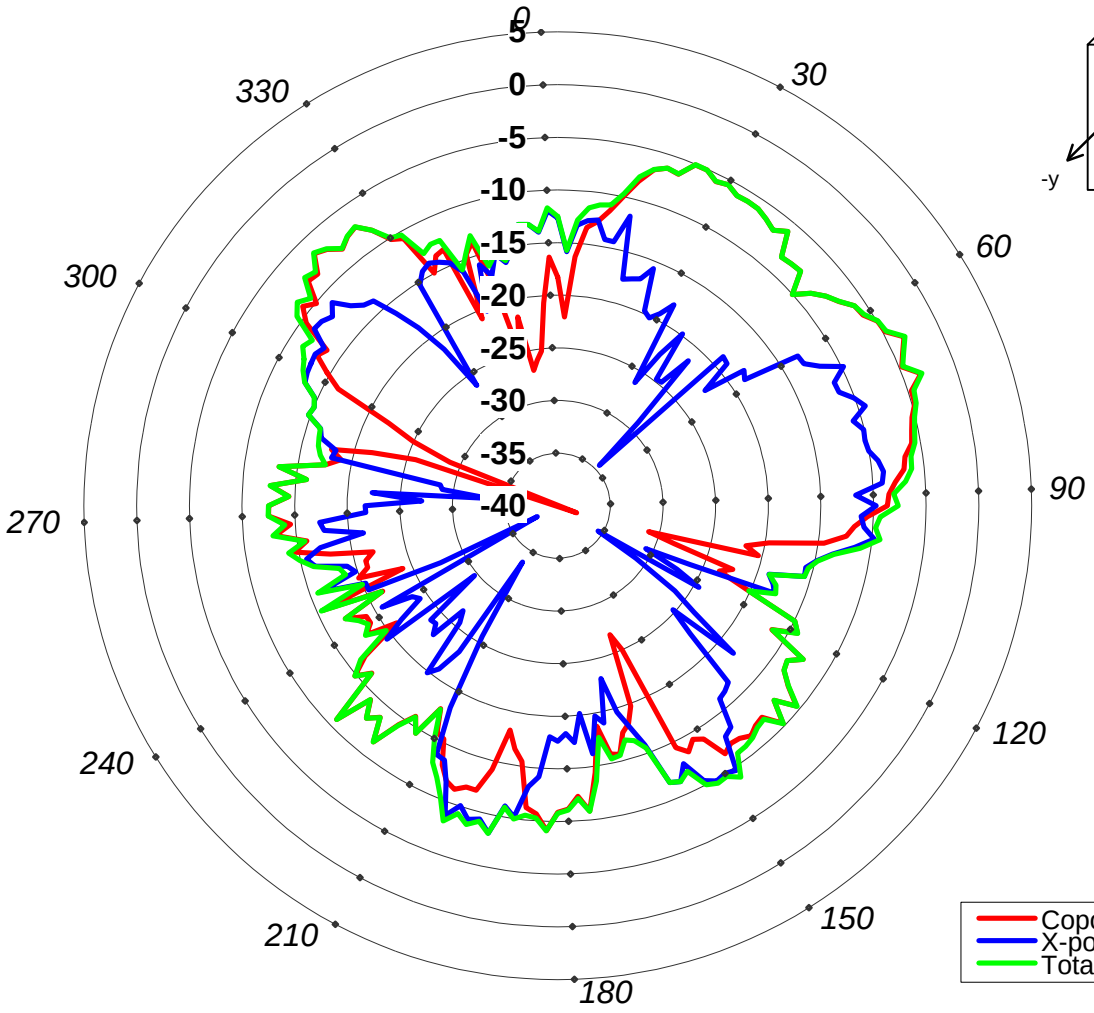
Avg (dBi) =	-4.6
Peak (dBi) =	1.0
Total deg >= -6dBi =	168
Total deg >= -2dBi =	88

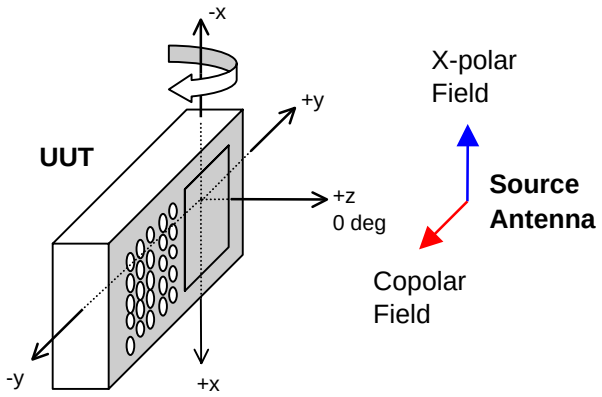
Total Field

Avg (dBi) =	-4.4
Peak (dBi) =	1.0
Total deg >= -6dBi =	172
Total deg >= -2dBi =	88

Elevation Pattern, phi = 90 deg
Elevation Angle (deg): NA
Frequency 5150

Gain, EL (E-plane)
dBi





Copolar

Avg (dBi) =	-10.5
Peak (dBi) =	-3.3
Total deg >= -6dBi =	36
Total deg >= -2dBi =	0

X-polar

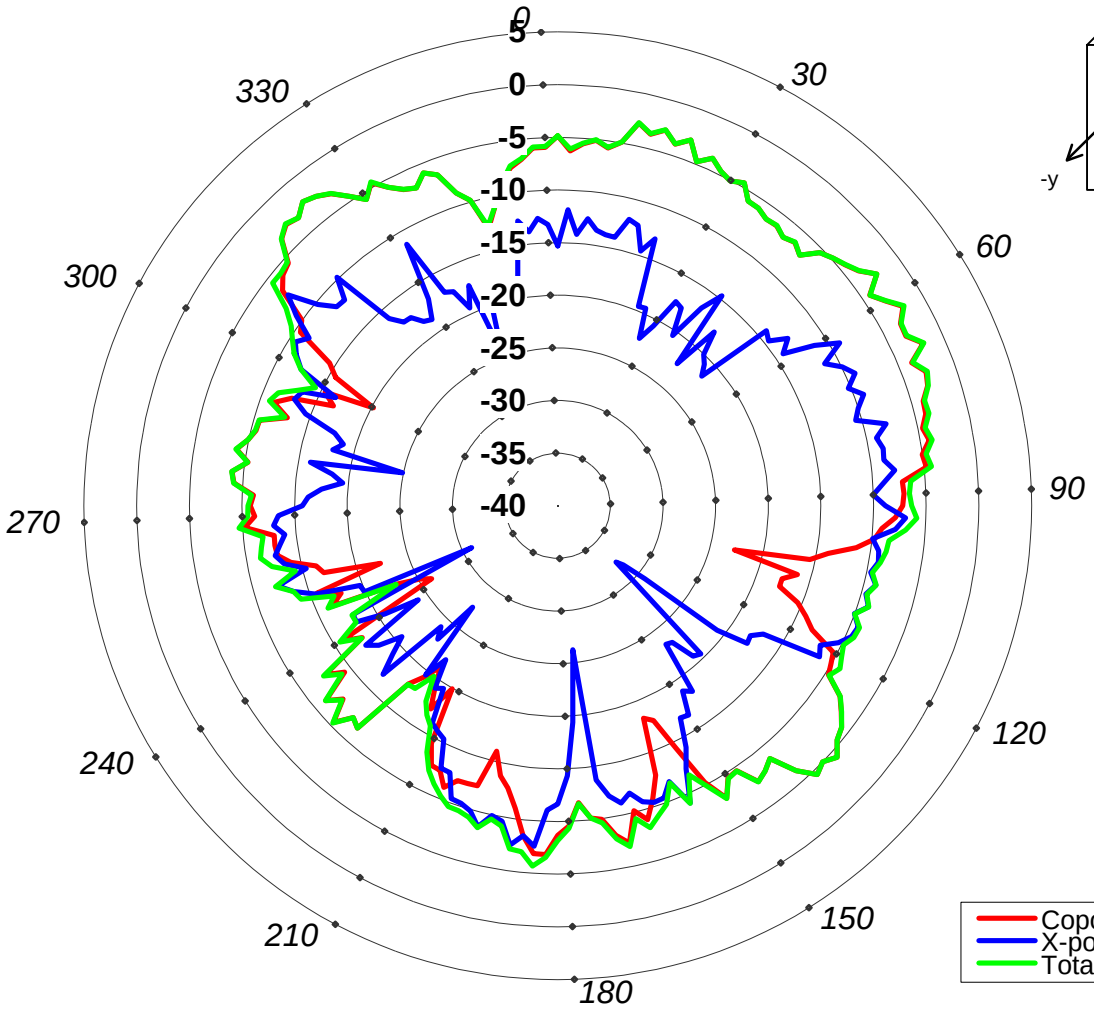
Avg (dBi) =	-14.5
Peak (dBi) =	-8.2
Total deg >= -6dBi =	0
Total deg >= -2dBi =	0

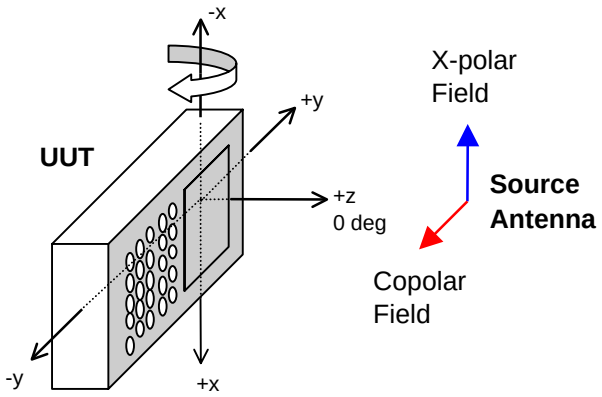
Total Field

Avg (dBi) =	-9.8
Peak (dBi) =	-3.2
Total deg >= -6dBi =	36
Total deg >= -2dBi =	0

Elevation Pattern, phi = 90 deg
Elevation Angle (deg): NA
Frequency 5350

Gain, EL (E-plane)
dBi





Copolar

Avg (dBi) =	-7.4
Peak (dBi) =	-2.0
Total deg >= -6dBi =	114
Total deg >= -2dBi =	0

X-polar

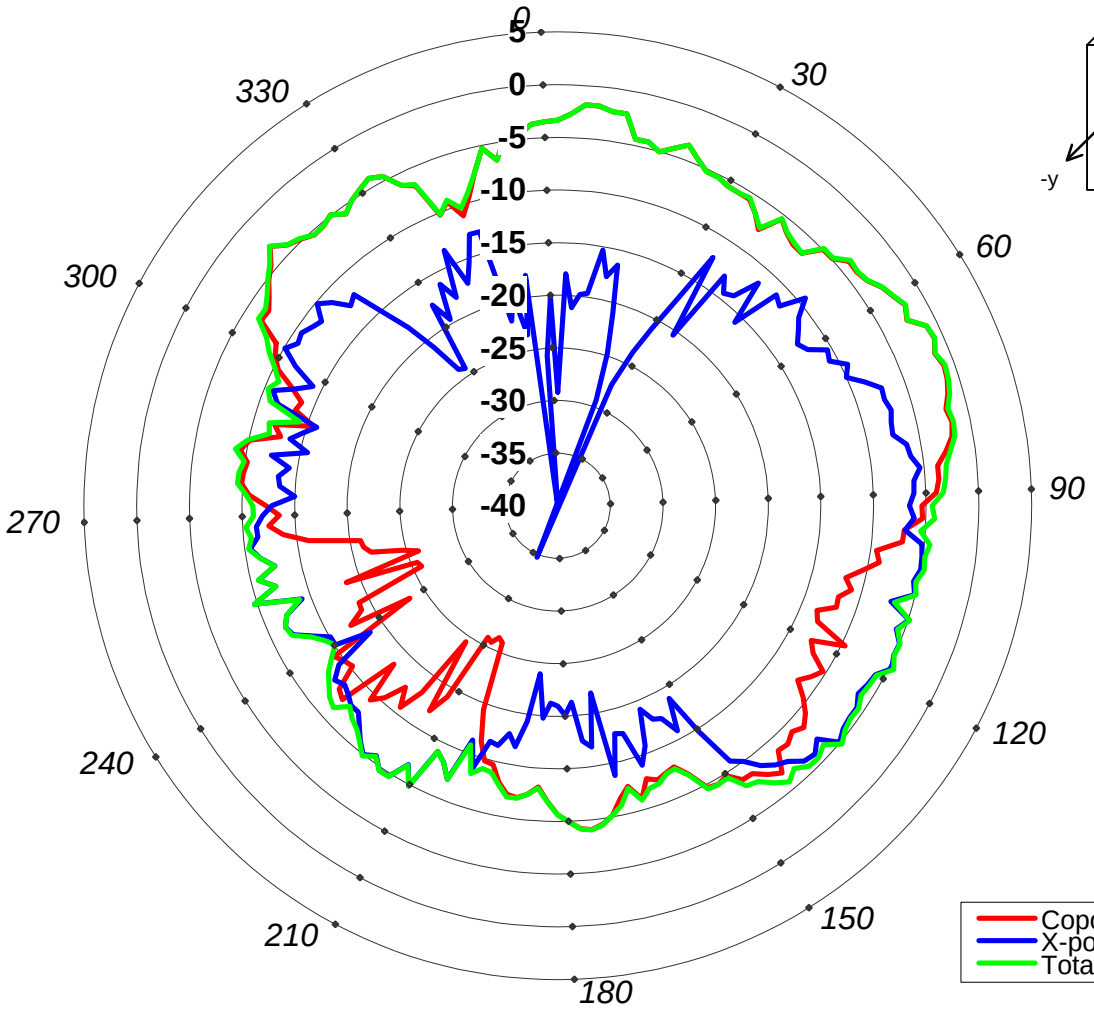
Avg (dBi) =	-12.8
Peak (dBi) =	-7.0
Total deg >= -6dBi =	0
Total deg >= -2dBi =	0

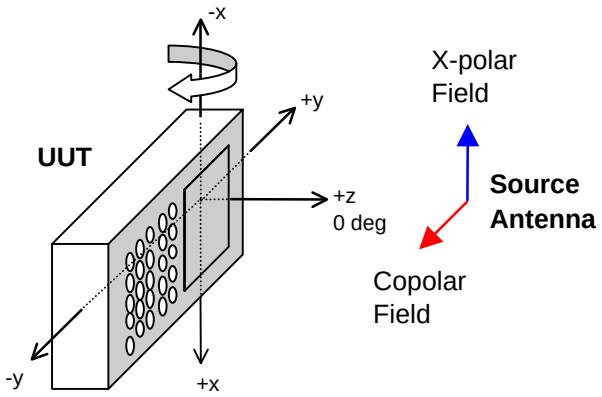
Total Field

Avg (dBi) =	-6.9
Peak (dBi) =	-2.0
Total deg >= -6dBi =	120
Total deg >= -2dBi =	2

Elevation Pattern, phi = 90 deg
Elevation Angle (deg): NA
Frequency 5825

Gain, EL (E-plane)
dBi





Copolar

Avg (dBi) =	-6.9
Peak (dBi) =	-0.9
Total deg >= -6dBi =	120
Total deg >= -2dBi =	22

X-polar

Avg (dBi) =	-10.7
Peak (dBi) =	-4.7
Total deg >= -6dBi =	32
Total deg >= -2dBi =	0

Total Field

Avg (dBi) =	-6.1
Peak (dBi) =	-0.8
Total deg >= -6dBi =	162
Total deg >= -2dBi =	24