

Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<i>ANT0&ANT1</i>		
2	Brand	<i>Xtra</i>		
3	Operation Frequency	<i>2.4~2.483GHz; 5.15~5.25GHz; 5.725~5.85GHz</i>		
4	Connector Type	<i>None</i>		
5	Impedance	<i>50ohm</i>		
6	Gain	WiFi ANT0: <i>0.58dBi@2.4-2.483GHz 1.77dBi@5.15~5.25GHz 1.57dBi@5.725~5.85GHz</i> WiFi ANT1: <i>1.35dBi@2.4-2.483GHz 0.71dBi@5.15~5.25GHz 1.95dBi@5.725~5.85GHz</i>		
7	Efficiency	<i>≥30%</i>		
8	VSWR	<i>≤3</i>		
9	Polarization type	<i>Linear</i>		
10	3dB Beamwidth	<i>Omnidirectional</i>		
11	Manufacturer	<i>Xtra Technology LLC</i>		

2、 S_{11}

WiFi ANT0



WiFi ANT1



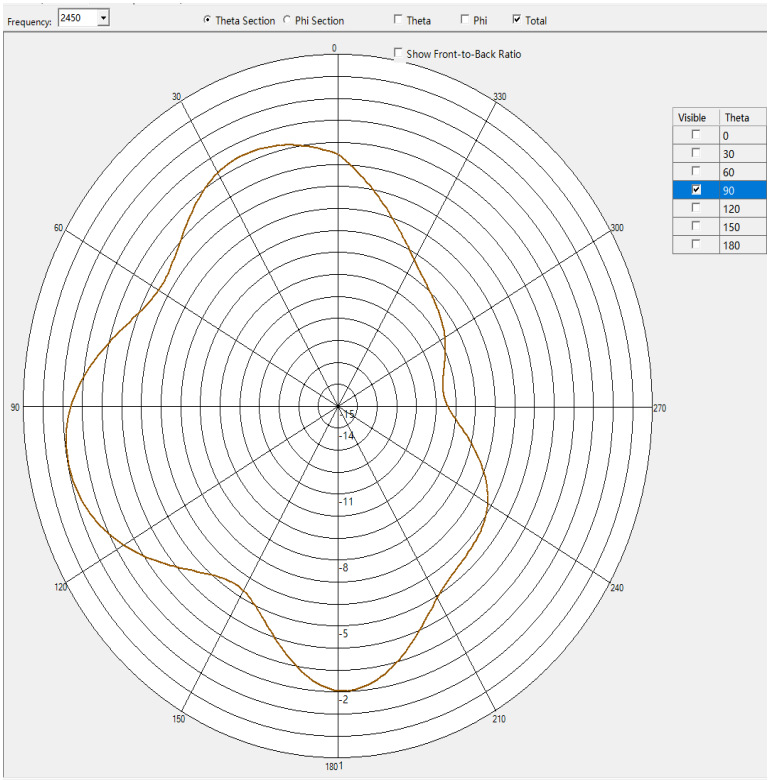
3、 Radiation Pattern

WiFi ANT0

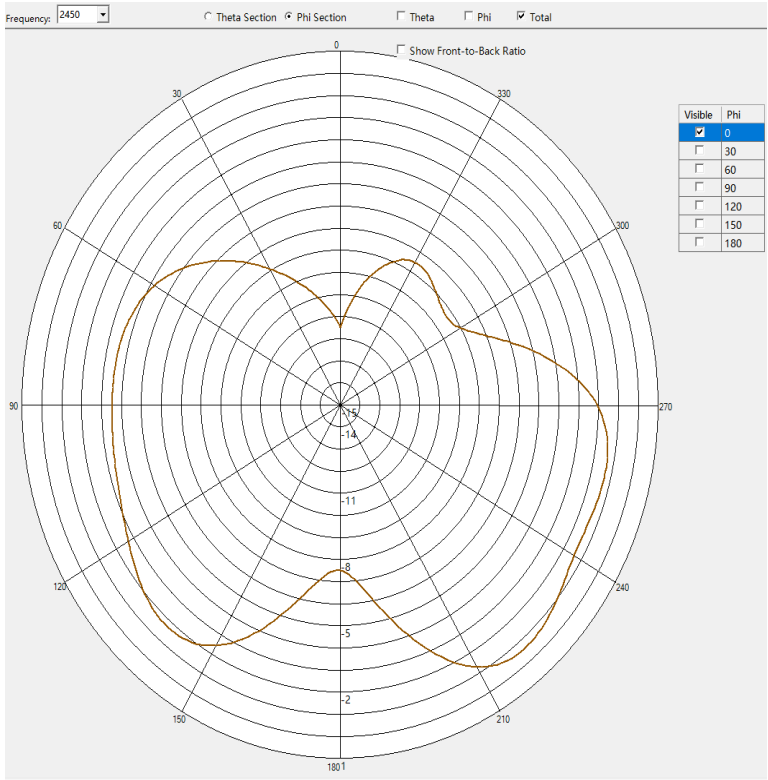
Gain&Efficiency:

Frequency	Efficiency.dB	Gain . dB
2400	-5.05	-0.06
2410	-4.95	-0.11
2420	-4.76	0.01
2430	-4.48	0.22
2440	-4.22	0.4
2450	-4.18	0.46
2460	-4.29	0.58
2470	-4.68	0.37
2480	-5	0.03
2490	-5.18	-0.19
2500	-5.33	-0.45
5140	-6.64	-0.01
5160	-6.48	0.02
5180	-6.11	1
5200	-5.01	1.77
5220	-4.68	1.53
5240	-5.07	0.99
5260	-5.64	0.6
5720	-4.81	1.26
5740	-3.43	1.5
5760	-2.96	1.44
5780	-3.67	1.57
5800	-4.55	0.68
5820	-4.64	0.29
5840	-3.98	0.88
5860	-3.39	1.3

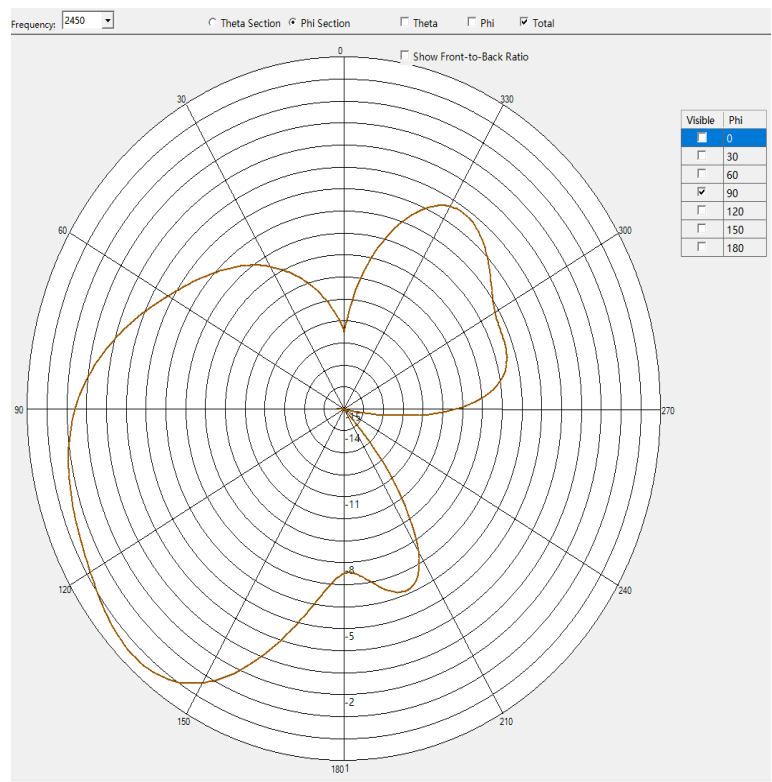
Radiant Pattern:



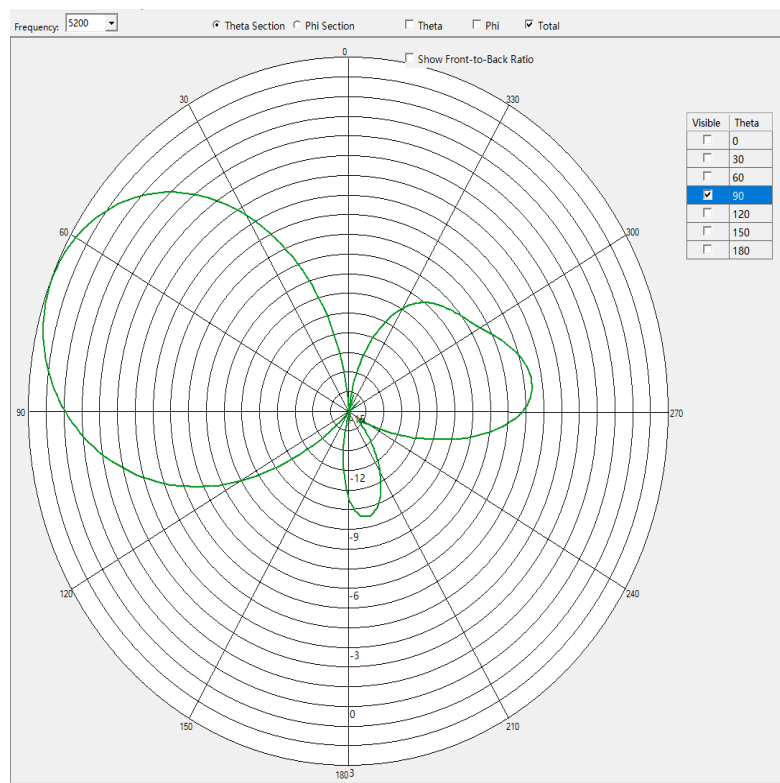
2.4G Theta=90



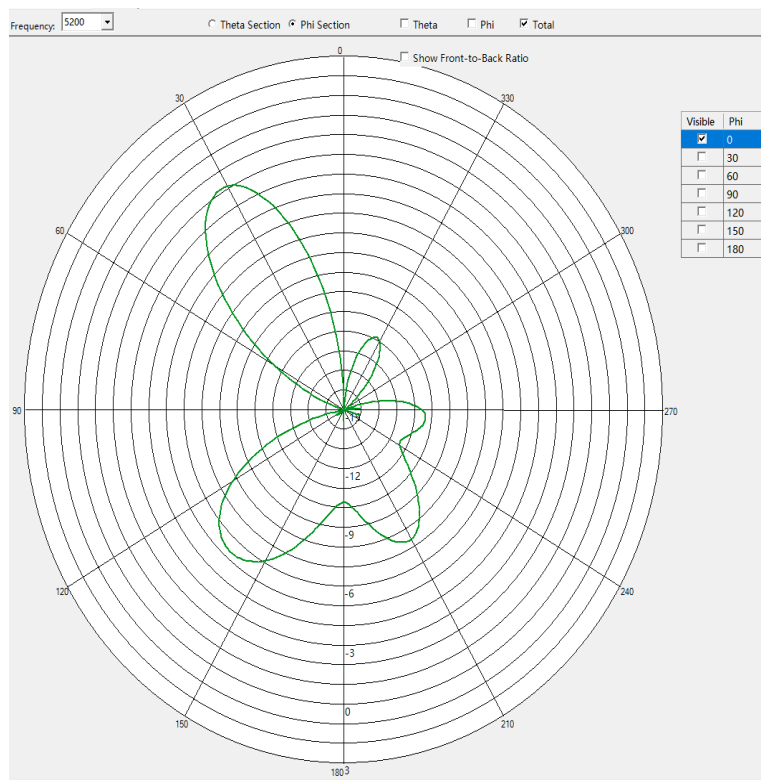
2.4G Phi =0



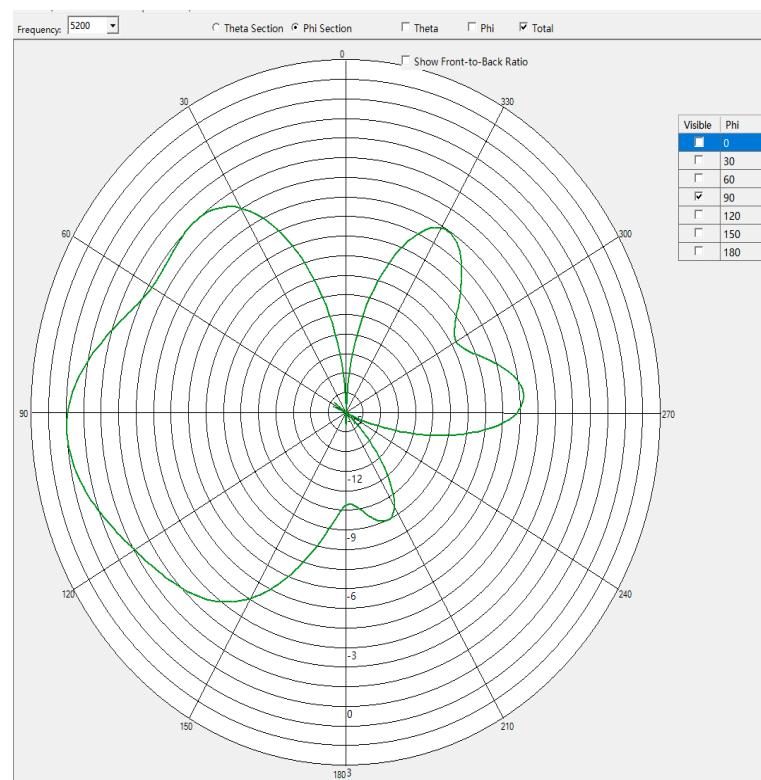
2.4G Phi =90



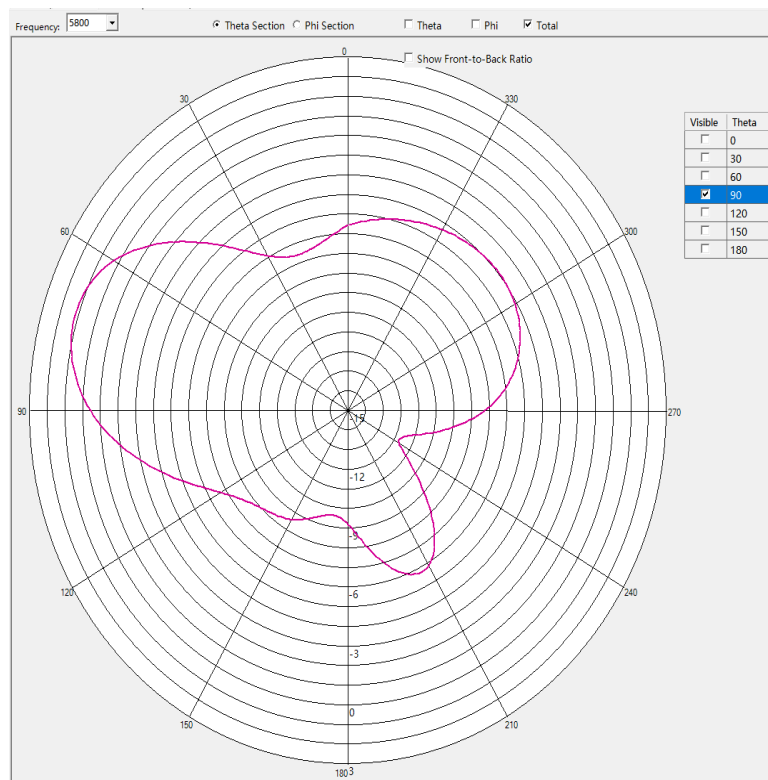
5.2G Theta=90



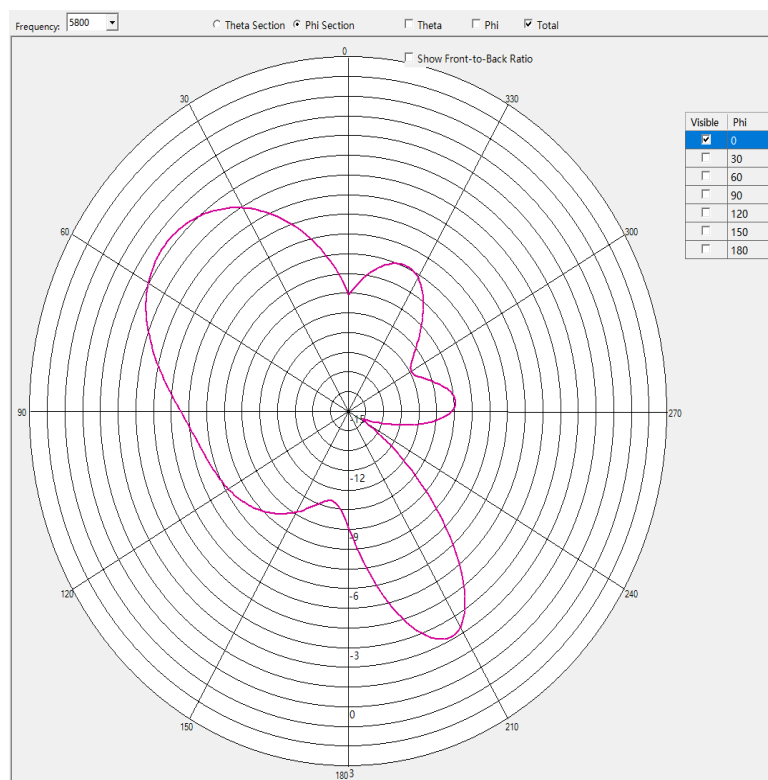
5.2G $\Phi = 0$



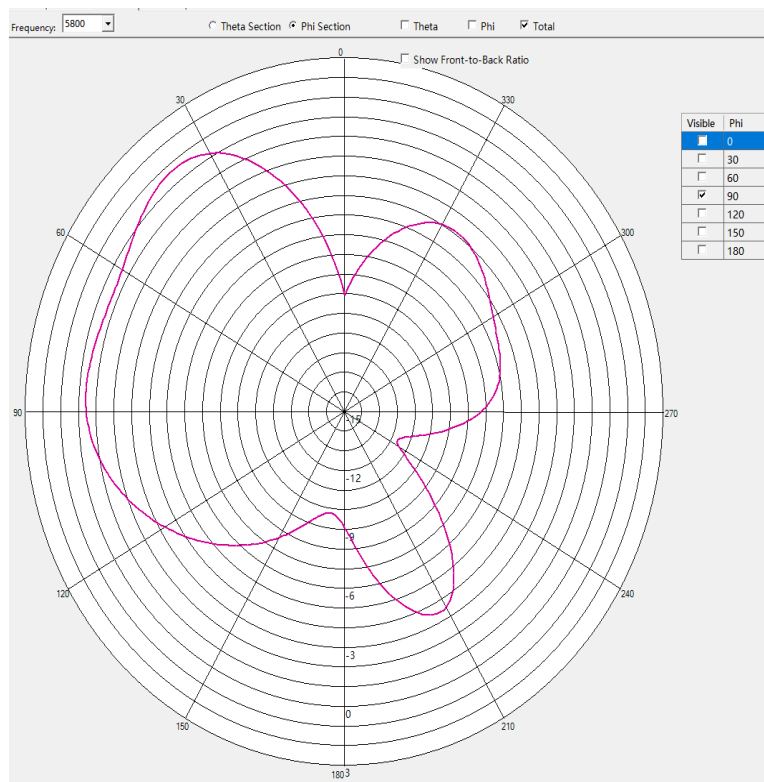
5.2G $\Phi = 90$



5.8G Theta=90



5.8G Phi =0

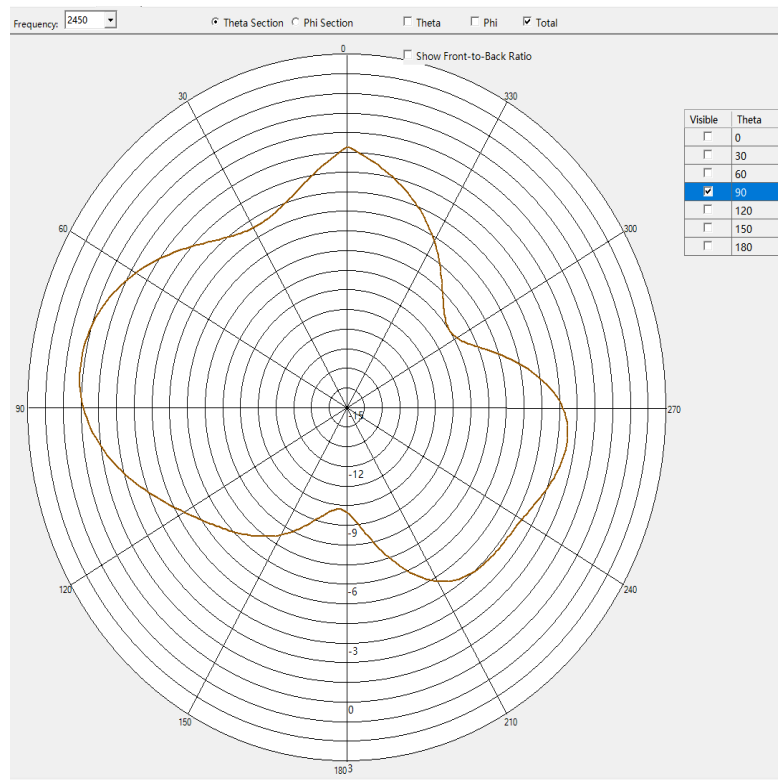


WiFi ANT0

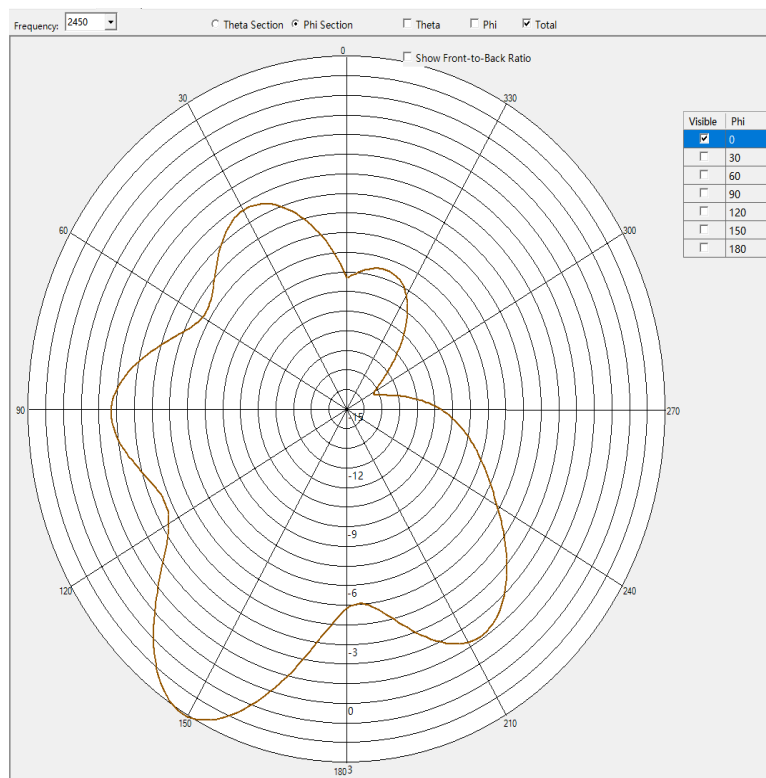
Gain&Efficiency:

Frequency	Efficiency.dB	Gain . dB
2400	-4.84	-0.07
2410	-4.74	-0.05
2420	-4.5	0.16
2430	-4.15	0.52
2440	-3.85	0.83
2450	-3.68	1.08
2460	-3.62	1.35
2470	-3.89	1.21
2480	-4.14	1.02
2490	-4.26	0.9
2500	-4.35	0.68
5140	-6.71	-1.1
5160	-5.59	0.01
5180	-5.22	0.71
5200	-5.58	0.2
5220	-6.24	-0.83
5240	-6.22	-0.68
5260	-5.79	-0.2
5720	-6.44	-0.68
5740	-4.9	1.17
5760	-4.34	1.95
5780	-5.1	1.44
5800	-6.11	0.53
5820	-6.12	0.4
5840	-5.23	1.31
5860	-4.26	1.32

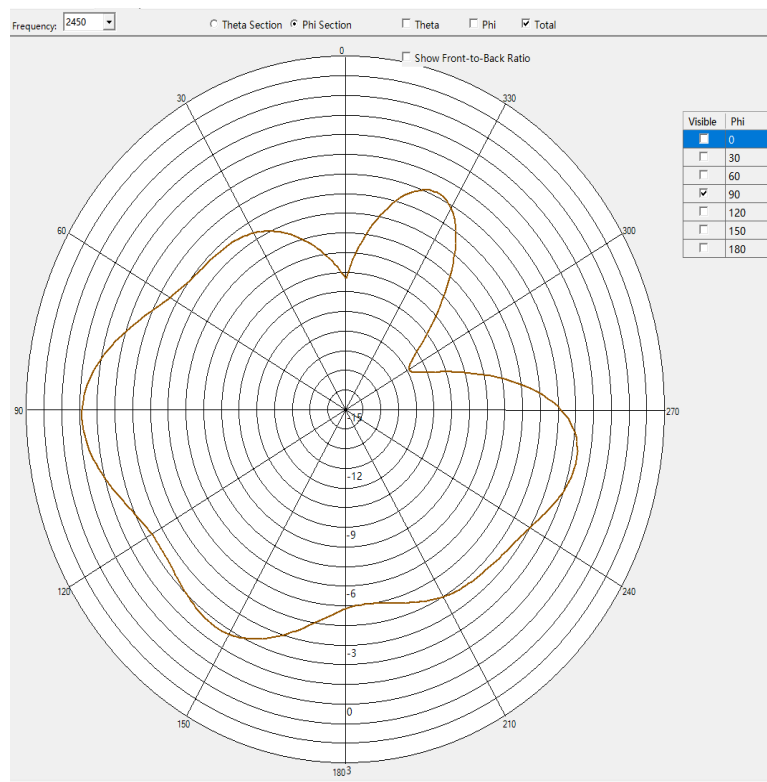
Radiation Pattern:



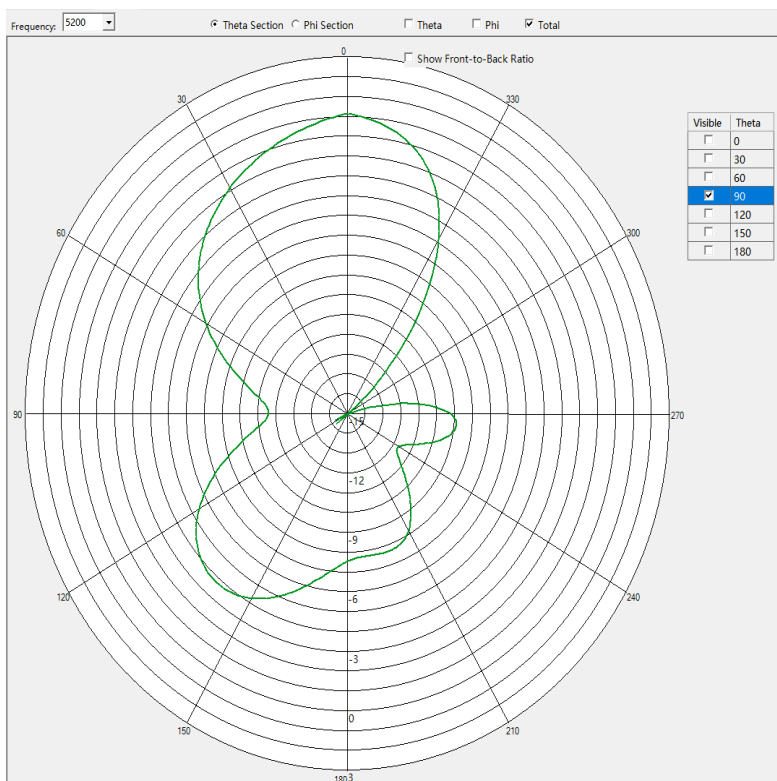
2.4G Theta=90



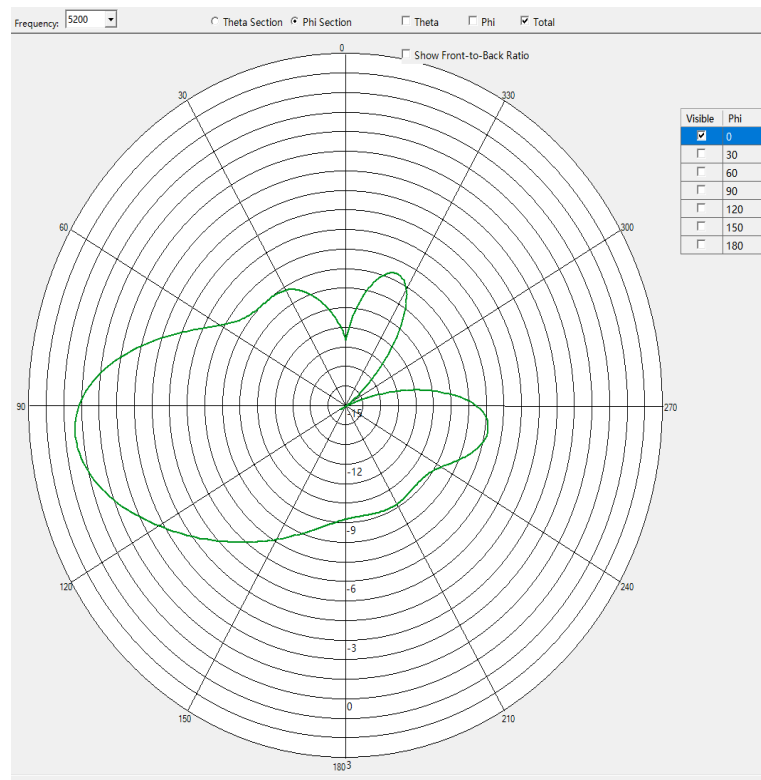
2.4G Phi =0



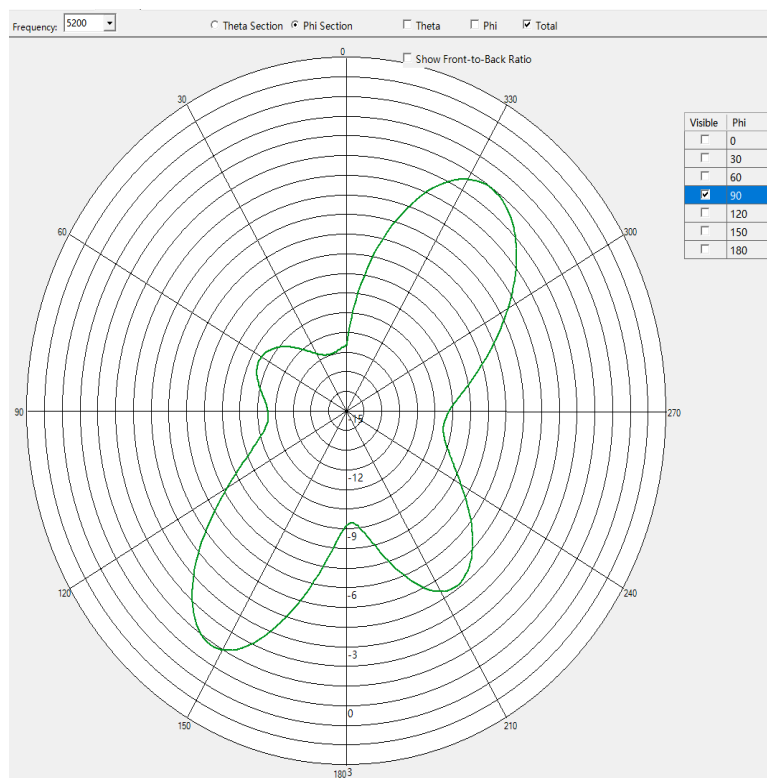
2.4G Phi =90



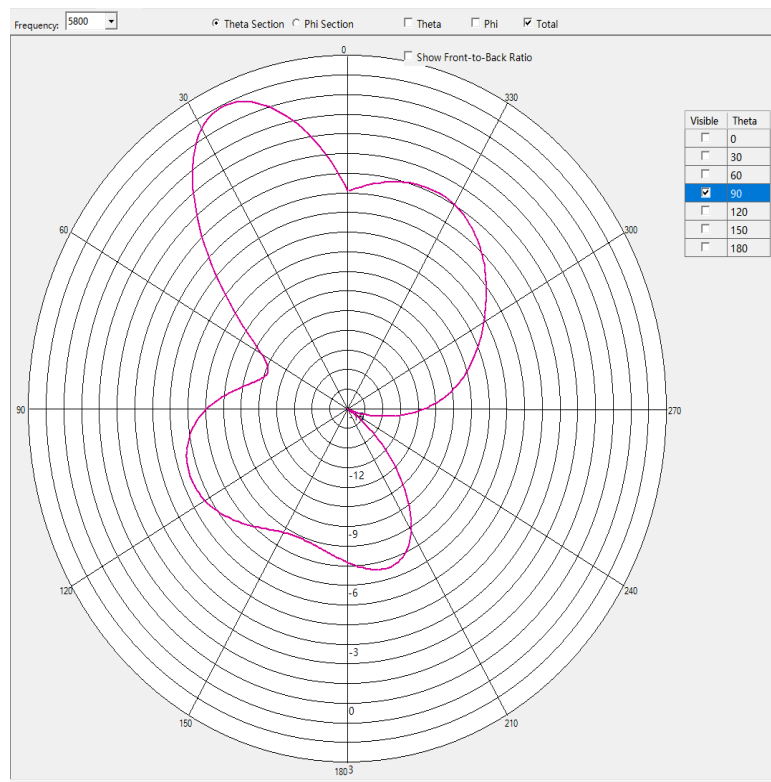
5.2G Theta=90



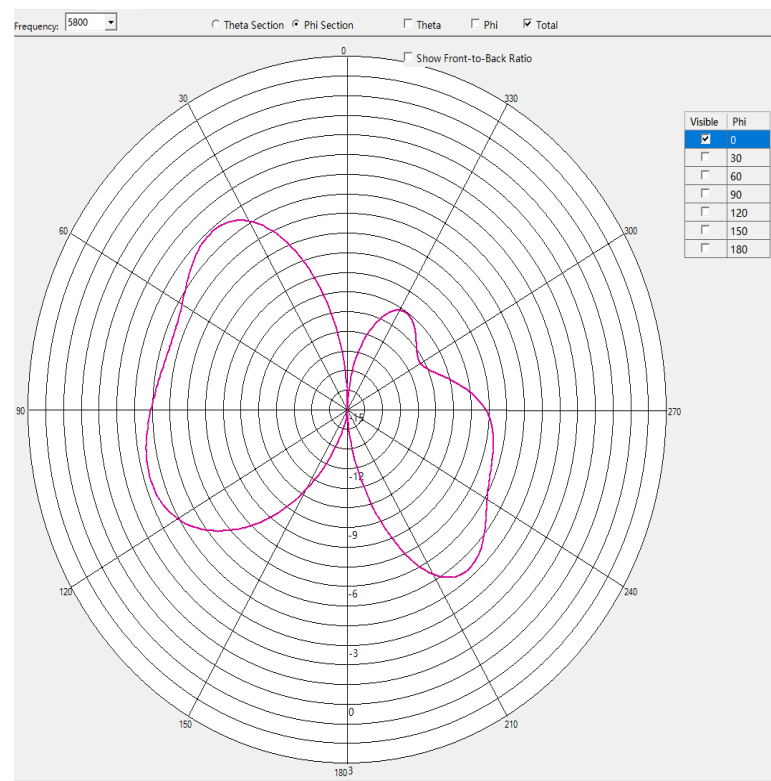
5.2G $\Phi = 0$



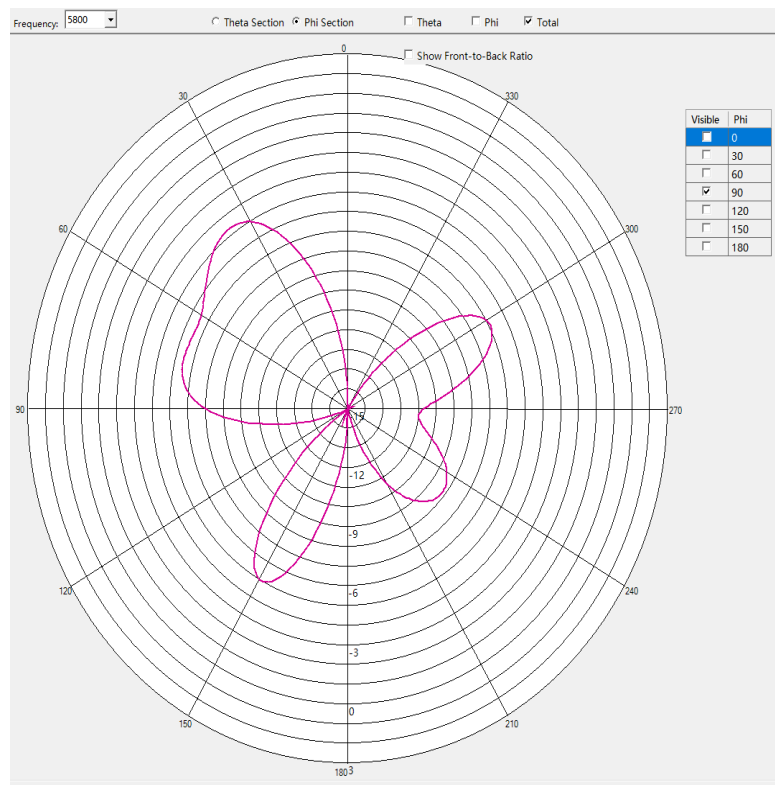
5.2G $\Phi = 90$



5.8G Theta=90



5.8G Phi =0



5.8G Phi =90