

WiFi-6G Reference Antenna Datasheet

1. Antenna Specification

1.1. Antenna information

Manufacturer	Type	Antenna Part number	Band	Peak Gain (dBi)	Target Peak Gain (dBi)
Intel WRF Lab	Monopole	WRF-8dBi-Monopole-6G	6.2GHz 5925-6425MHz	7.75	8
			6.5GHz 6425-6525MHz	6.84	
			6.6GHz 6525-6875MHz	7.45	
			7GHz 6875-7125MHz	7.75	

1.2. Antenna Peak Gain Table

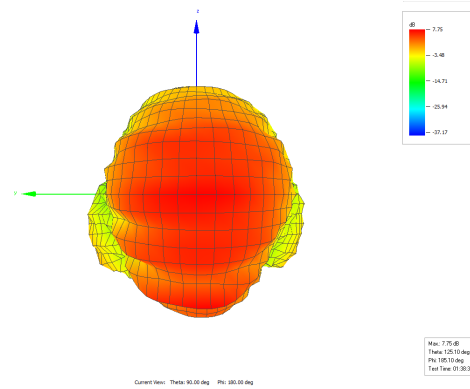
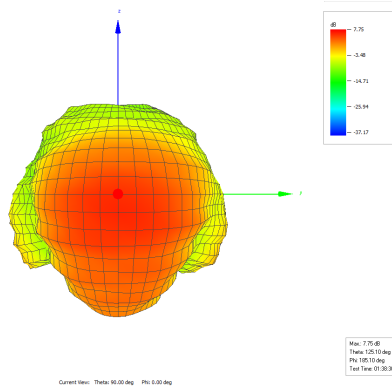
Frequency (MHz)	Peak Gain		
	Horizontal (Phi)	Vertical (Theta)	Total
	(dBi)	(dBi)	(dBi)
5925	-8.24	7.64	7.75
6425	-16.73	6.54	6.56
6525	-11.27	6.78	6.84
6875	-10.08	7.37	7.45
7125	-12.44	7.71	7.75

2. Antenna Radiation Patterns 5925 - 7200 MHz

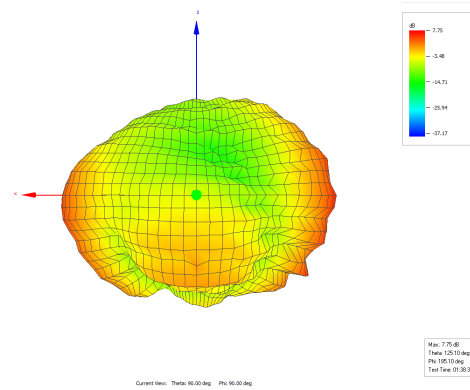
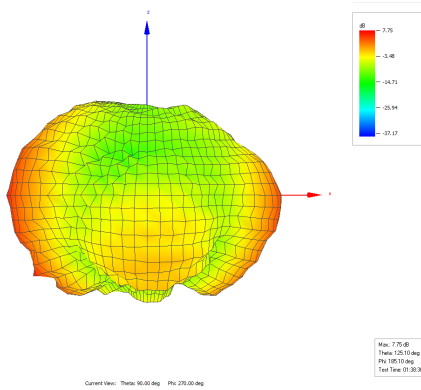
2.1. Pattern @5925MHz

Frequency (MHz)	Peak Gain		
	Horizontal (Phi)	Vertical (Theta)	Total
	(dBi)	(dBi)	(dBi)
5925	-8.24	7.64	7.75

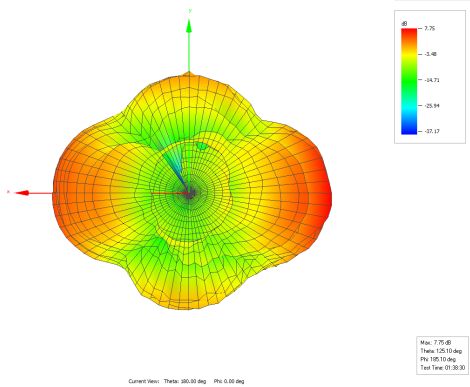
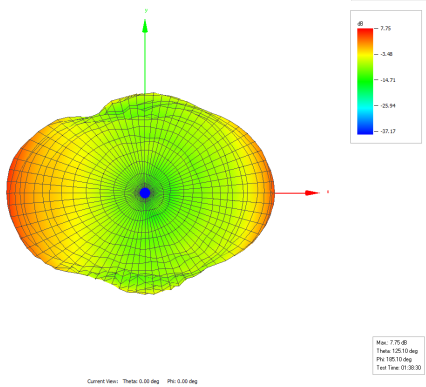
Front **Back**



Left **Right**



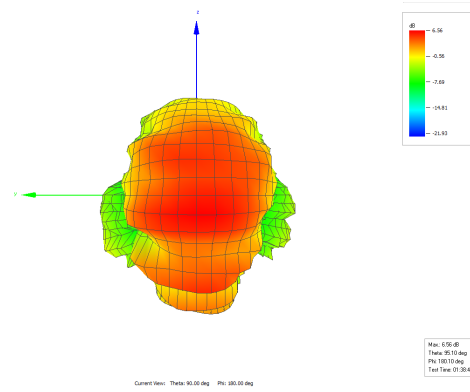
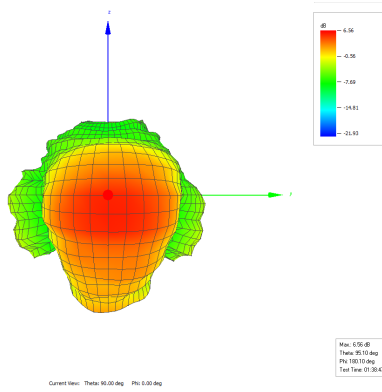
Top **Bottom**



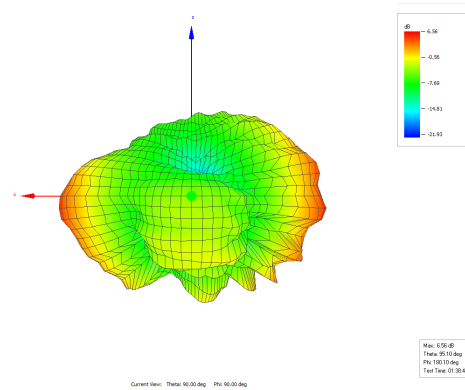
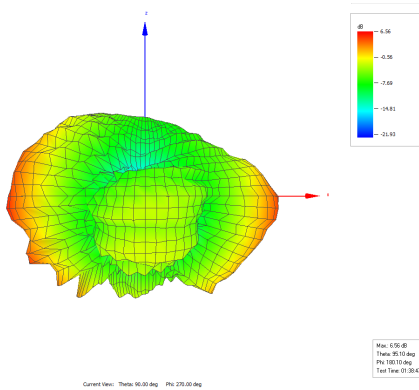
2.2. Pattern @6425MHz

Frequency (MHz)	Peak Gain		
	Horizontal (Phi) (dBi)	Vertical (Theta) (dBi)	Total (dBi)
6425	-16.73	6.54	6.56

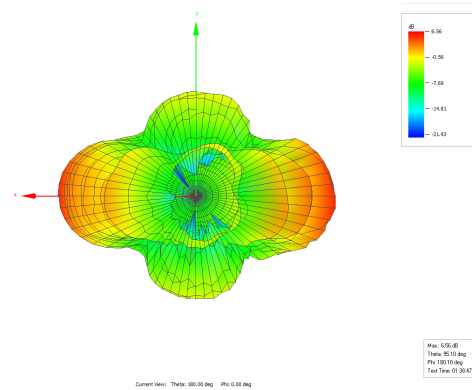
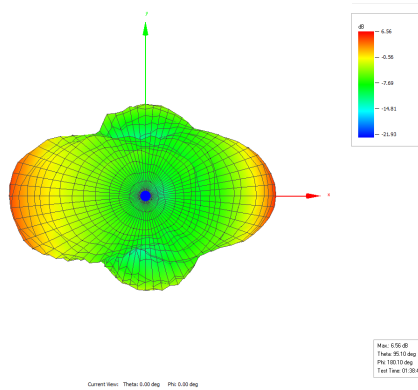
Front Back



Left Right



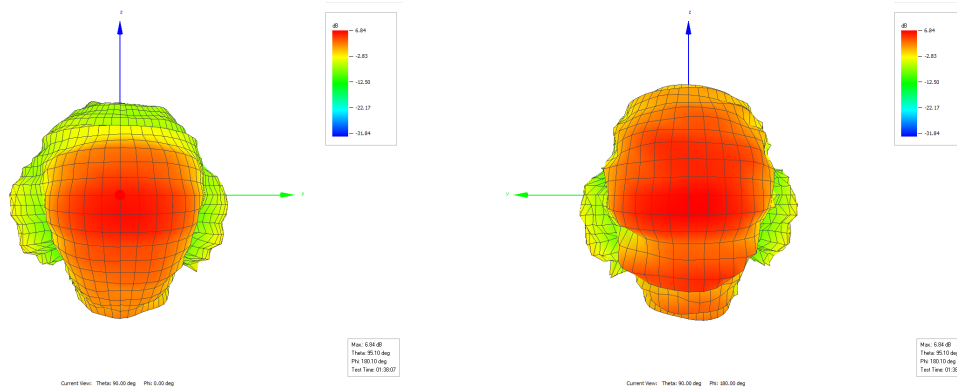
Top Bottom



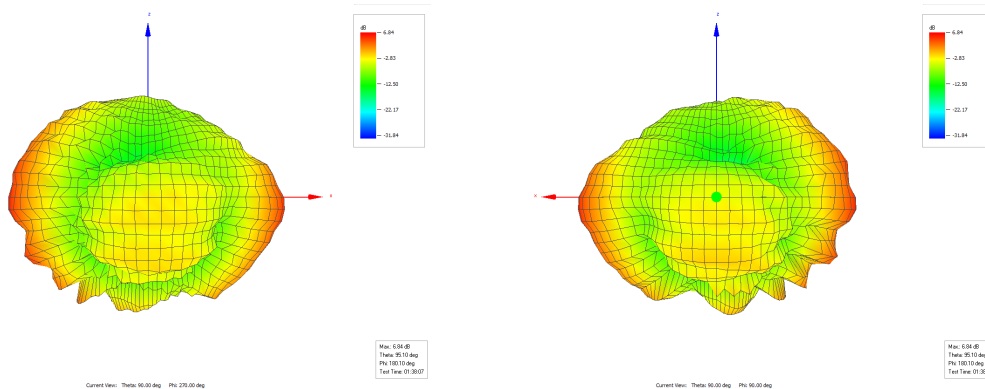
2.3. Pattern @6525MHz

Frequency (MHz)	Peak Gain		
	Horizontal (Phi) (dBi)	Vertical (Theta) (dBi)	Total (dBi)
6525	-11.27	6.78	6.84

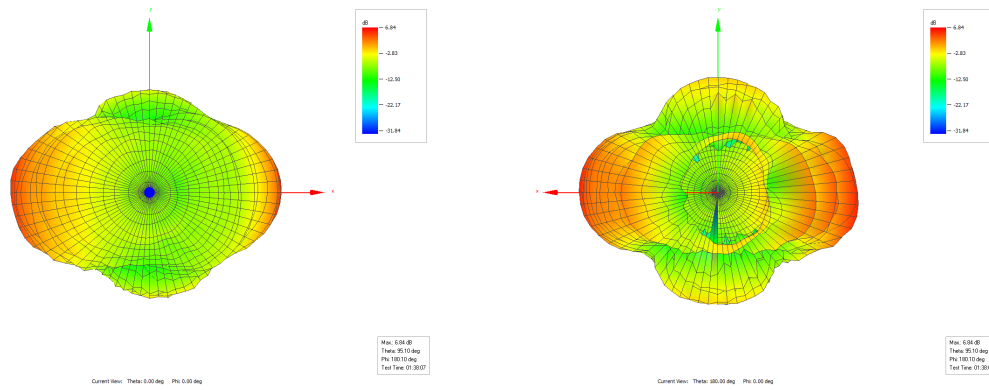
Front **Back**



Left **Right**



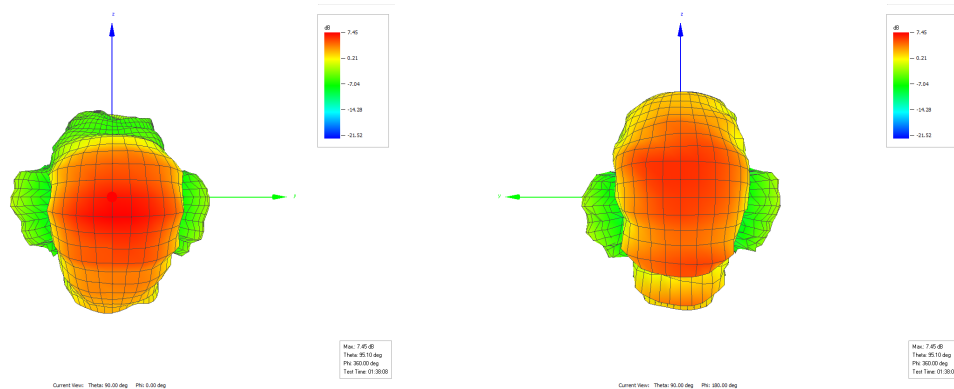
Top **Bottom**



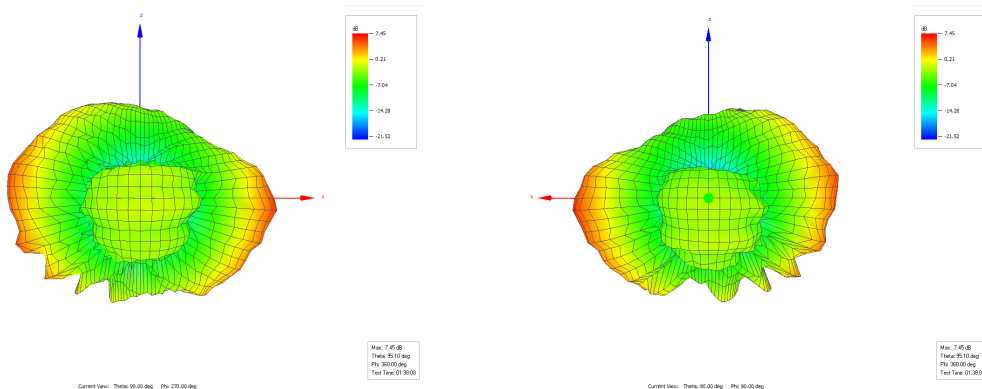
2.4. Pattern @6875MHz

Frequency (MHz)	Peak Gain		
	Horizontal (Phi) (dBi)	Vertical (Theta) (dBi)	Total (dBi)
6875	-10.08	7.37	7.45

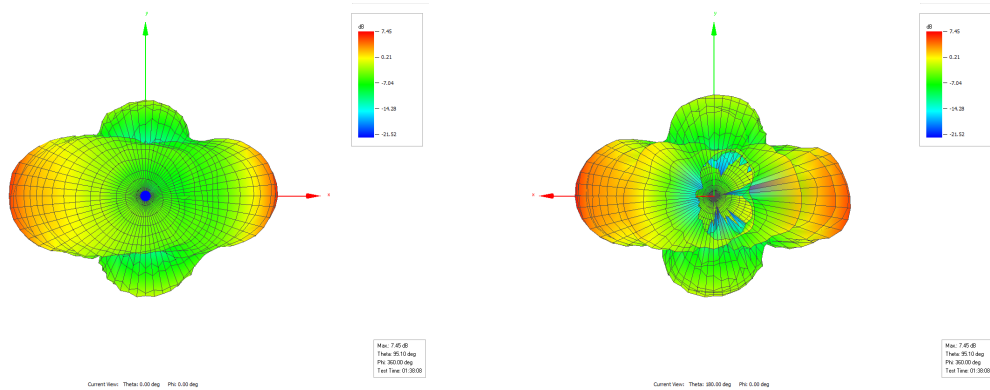
Front **Back**



Left **Right**



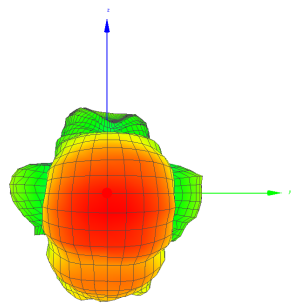
Top **Bottom**



2.5. Pattern @7125MHz

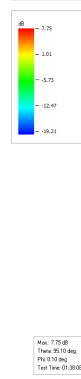
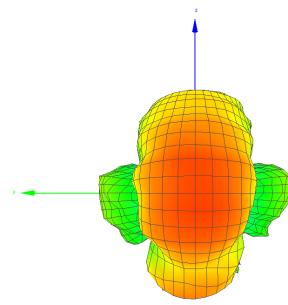
Frequency (MHz)	Peak Gain		
	Horizontal (Phi) (dBi)	Vertical (Theta) (dBi)	Total (dBi)
7125	-12.44	7.71	7.75

Front **Back**



Current View: Theta: 90.00 deg Phi: 0.00 deg

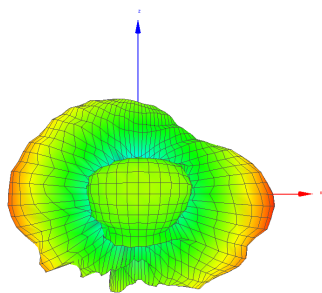
Max: 7.75 dBi
Theta: 95.10 deg
Phi: 0.10 deg
Test Time: 01:30:09



Current View: Theta: 90.00 deg Phi: 180.00 deg

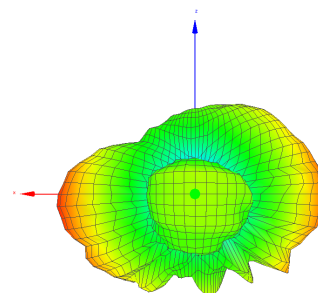
Max: 7.75 dBi
Theta: 95.10 deg
Phi: 0.10 deg
Test Time: 01:30:09

Left **Right**



Current View: Theta: 90.00 deg Phi: 270.00 deg

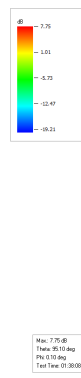
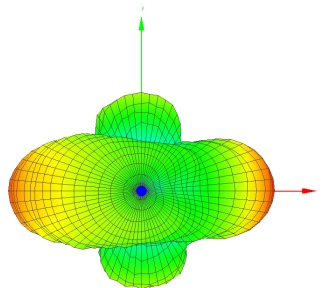
Max: 7.75 dBi
Theta: 95.10 deg
Phi: 0.10 deg
Test Time: 01:30:09



Current View: Theta: 90.00 deg Phi: 90.00 deg

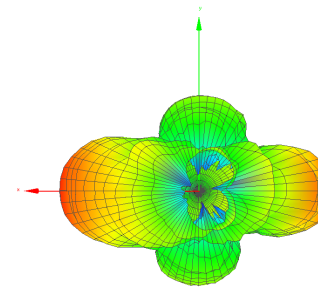
Max: 7.75 dBi
Theta: 95.10 deg
Phi: 0.10 deg
Test Time: 01:30:09

Top **Bottom**



Current View: Theta: 0.00 deg Phi: 0.00 deg

Max: 7.75 dBi
Theta: 95.10 deg
Phi: 0.10 deg
Test Time: 01:30:09



Current View: Theta: 180.00 deg Phi: 0.00 deg

Max: 7.75 dBi
Theta: 95.10 deg
Phi: 0.10 deg
Test Time: 01:30:09