



Antenna Specification

Antenna Manufacturer Company Name: Wieson Technologies Co., LTD.

Antenna Manufacturer Company Address: 15F, No.237, Sec.1, Datong Rd., Xizhi Dist., New Taipei City 221006, Taiwan

Antenna Model: ARY196-0232-042-00

Antenna Type: PCB antenna

Directional Gain

Directional Gain=

$$10 \log \left[\frac{\left(10^{\frac{G1}{20}} + 10^{\frac{G2}{20}} + \dots + 10^{\frac{Gn}{20}} \right)^2}{N_{ant}} \right] dBi$$

Category	Peak Gain(dBi)	Directional Gain (dBi)
Wi-Fi 2.4G	A6: 1.75 A7: 2.55	5.17

A6

Antenna specification



Item	Specification
Operating Frequency(GHz)	2.4-2.5
Bandwidth	100 MHz (Min.)
Return Loss	10dB (Min.)
Polarization	Linear
Azimuth Bandwidth	Omni-directional
Peak Gain	1.75dBi (Max.)
Impedance	50Ω
Material	PCB
Connector	MHF I
Cable type	O.D. 1.37 L/L
Maximum Power	1W
V.S.W.R	2 : 1
Radiation	Omni directional
Efficiency	53%(Max.)
Operating Temperature	-10~60°C
Storage temp	-10~70°C

S-Parameter

A6



Freq(MHz)	2400	2450	2500
S11(dB)	-10.2	-11.3	-10.9

A6

3D Gain Total



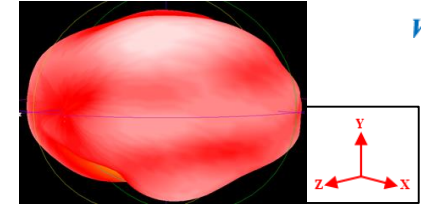
Freq(GHz)	Peak Gain(dBi)	3D-avg Gain(dBi)	Efficiency(%)
2.4	1.75	-3.03	50
2.41	1.62	-3.02	50
2.42	1.61	-2.9	51
2.43	1.43	-2.95	51
2.44	1.39	-2.87	52
2.45	1.21	-2.92	51
2.46	1.24	-2.76	53
2.47	1.01	-2.87	52
2.48	0.81	-2.95	51
2.49	0.55	-2.98	50
2.5	0.17	-2.98	50

Antenna Pattern

A6

Frequency : 2450MHz

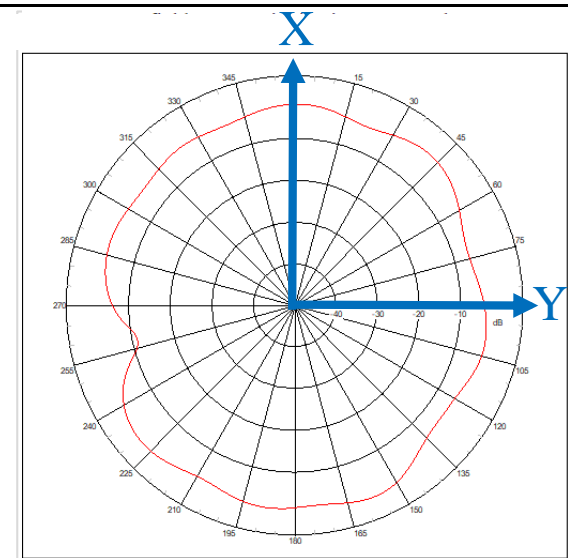
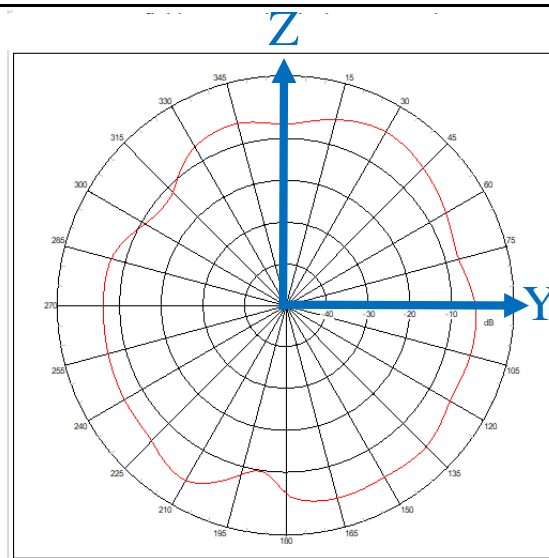
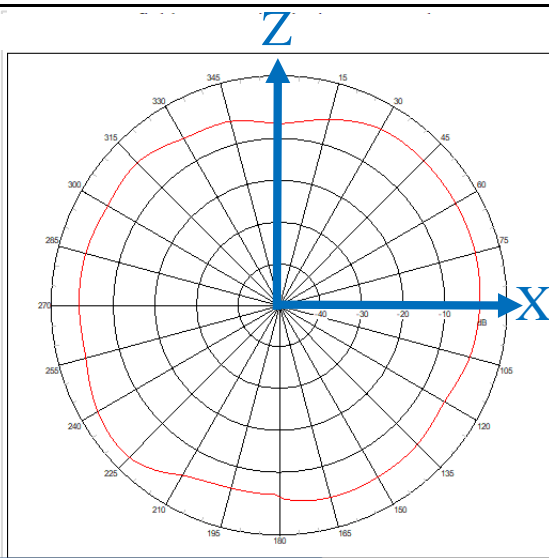
Freq(GHz)	Peak Gain(dBi)	3D-avg Gain(dBi)	Efficiency(%)
2.45	1.21	-2.92	51



XZ-plane

YZ-plane

XY-plane



Far-field amplitude limits:

Max: 5dB

min: -50dB