

## Vulcan Internal WiFi Antenna Datasheet



**Specifications:**

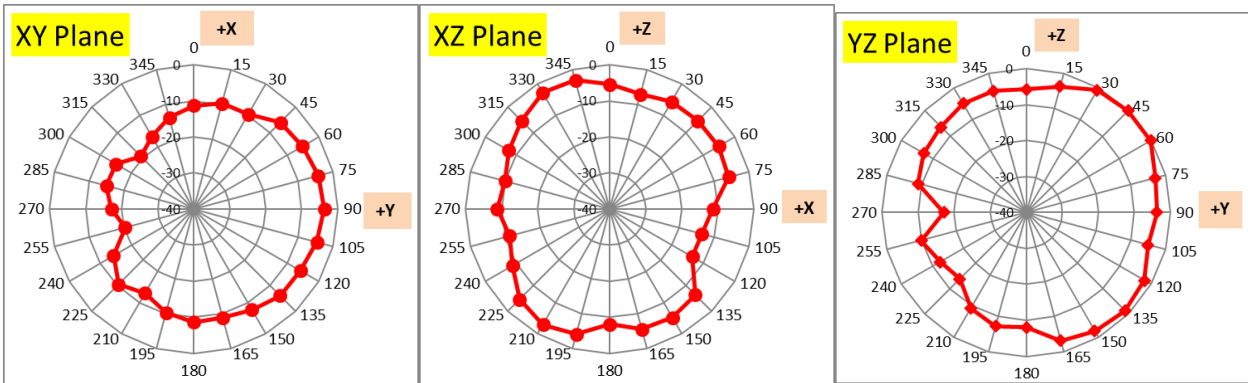
	WiFi Ant 1 (internal-L)	WiFi Ant 2 (internal-R)
<b>Antenna Manufacturer Name</b>	Auden	Auden
<b>Address</b>	No.19, Ln. 772, Heping Rd., Bade Dist., Taoyuan City 33463, Taiwan	No.19, Ln. 772, Heping Rd., Bade Dist., Taoyuan City 33463, Taiwan
<b>Manufacturers P/N:</b>	A92777-30	A92774-30
<b>Zebra P/N:</b>	AN-000345-01	AN-000345-02
<b>Test Engineer</b>	Derek Yan	Derek Yan
<b>Test dates</b>	2023-02-07	2023-02-07
<b>Frequency Range</b>	2.4-2.5GHz, 5.15-5.85GHz	2.4-2.5GHz, 5.15-5.85GHz
<b>Impedance</b>	50Ω	50Ω
<b>VSWR</b>	2:1	2:1
<b>Cable/connector</b>	1.13LL Coaxial Cable, MHF4L	1.13LL Coaxial Cable, MHF4L
<b>Cable loss</b>	2.4-2.5GHz: -0.4dB/100mm 5.15-5.85GHz: -0.6dB/100mm[1]	2.4-2.5GHz: -0.4dB/100mm 5.15-5.85GHz: -0.6dB/100mm[1]
<b>Cable length</b>	150mm	115mm
<b>Peak gain (dBi)</b>	2400MHz: 4.02 2450MHz: 3.84 2500MHz: 3.91 5100MHz: 5.51 5200MHz: 5.05 5300MHz: 3.95 5400MHz: 3.98 5500MHz: 4.30 5600MHz: 4.95 5700MHz: 4.94 5800MHz: 4.60 5850MHz: 4.47 5900MHz: 4.29 6000MHz: 3.38	2400MHz: 5.15 2450MHz: 5.42 2500MHz: 4.92 5100MHz: 5.62 5200MHz: 6.25 5300MHz: 6.30 5400MHz: 6.39 5500MHz: 6.30 5600MHz: 6.52 5700MHz: 5.95 5800MHz: 5.47 5850MHz: 5.12 5900MHz: 4.79 6000MHz: 4.45
<b>Antenna type</b>	PIFA	PIFA
<b>Polarization</b>	Linear	Linear

<b>Frequency vs Gain table (dB)</b>	2400MHz: -1.42 2450MHz: -0.98 2500MHz: -1.24 5100MHz: -2.60 5200MHz: -2.73 5300MHz: -2.16 5400MHz: -2.48 5500MHz: -2.76 5600MHz: -2.69 5700MHz: -3.16 5800MHz: -2.62 5850MHz: -2.59 5900MHz: -2.43 6000MHz: -3.24	2400MHz: -1.90 2450MHz: -1.33 2500MHz: -1.44 5100MHz: -2.81 5200MHz: -3.53 5300MHz: -3.57 5400MHz: -3.38 5500MHz: -3.20 5600MHz: -2.90 5700MHz: -3.40 5800MHz: -3.23 5850MHz: -3.20 5900MHz: -2.69 6000MHz: -3.69
<b>Radiation Pattern</b>	2D - 3 planes Please refer below Figure1.	2D - 3 planes Please refer below Figure1.
<b>Test Equipment HW &amp; SW</b>	HW: GTS1800 SW: Libra Version-1.1.7-alpha-2	HW: GTS1800 SW: Libra Version-1.1.7-alpha-2
<b>Test equipment Calibration Date</b>	2023-01-03	2023-01-03
<b>Test Set up photos</b>	Please refer below Figure2.	Please refer below Figure2.
<b>Test Description</b>	Put the DUT in GTS1800 and use Libra Version-1.1.7-alpha-2 to test antenna performance.	Put the DUT in GTS1800 and use Libra Version-1.1.7-alpha-2 to test antenna performance.

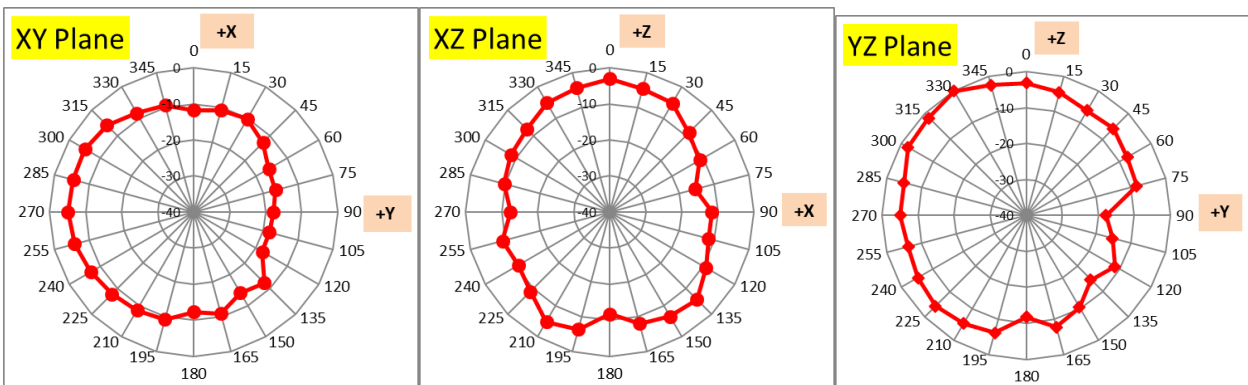
Figure1. Antenna Radiation Patterns (which shows peak gain):

2.45GHz:

Antenna1:

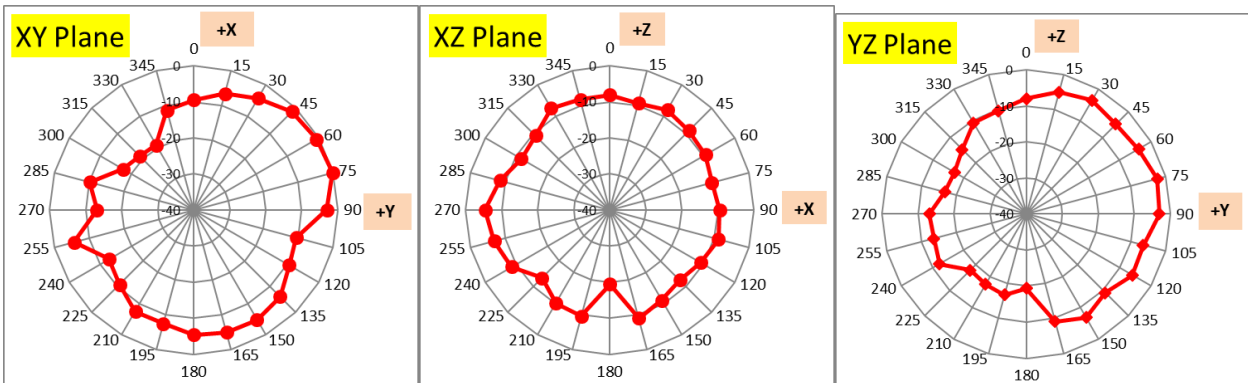


Antenna2:



5.5GHz:

Antenna1:



Antenna2:

