

Dell Azeda Antenna Specification for FCC

***Supplier Address: Hon Hai Precision Co., Ltd.
2 Tzu Yu St.
Tu-Chen Industrial Park District
Taipei Hsien, 23606
Taiwan
Tel: 886-2-2268-3466***

Antenna Specifications

Antenna Type (Material, Technology)	Phosphor Bronze, PIFA type
Antenna Model Number	WDAN-DQJM5001 (Dell p/n: C4719)
Operating Frequency Range(s)	2.4 ~ 2.5GHz, 4.9 ~ 5.875GHz
Peak Gain (802.11b/g / 2.4GHz Band) (dBi)	1.18dBi
Peak Gain (802.11a / 5GHz Band) (dBi)	1.63dBi
Radio Connector Type	IPEX 20351-111R-37, Foxconn SGX0003-2, HRS U-FL-088
Mid-Line Connector Type (If Applicable)	N/A

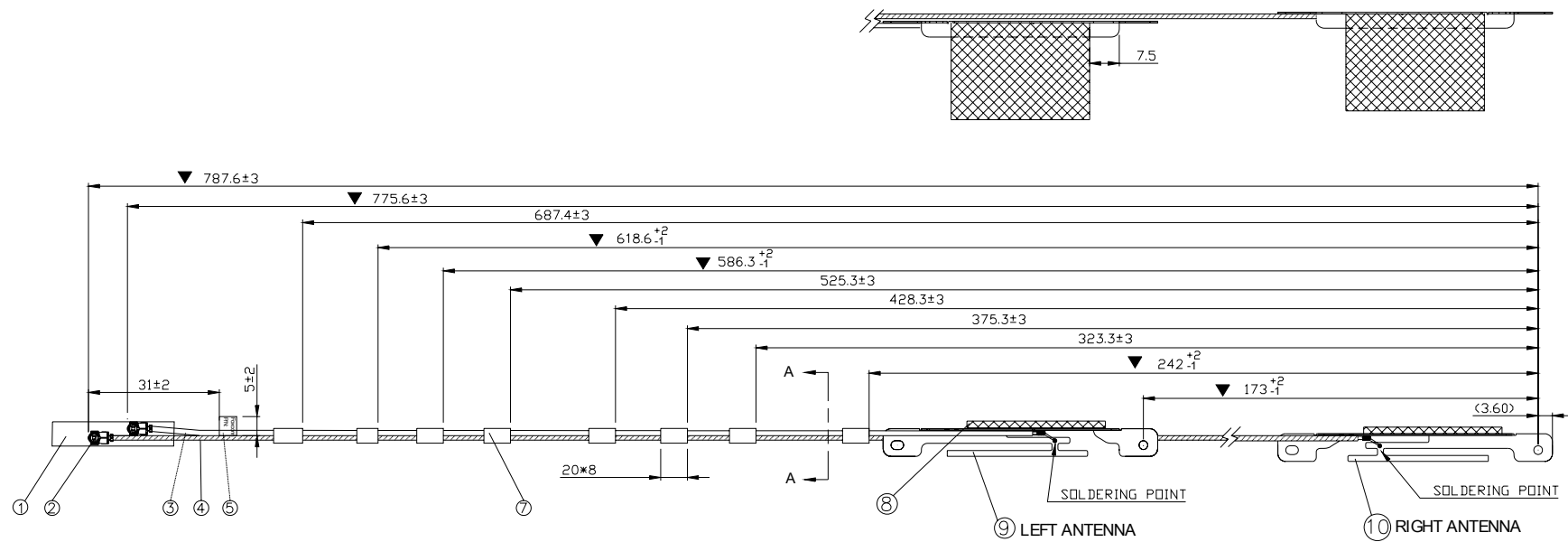
Note: Peak Gain should include all system losses (connector, cable, etc)

Cable Specifications

Cable Parameters	Main			Aux		
	LCD Side	Base Side	Total	LCD Side	Base Side	Total
Length (mm)	N/A	N/A	546	N/A	N/A	731
Loss (Including Connectors) (dB)			1.347dB => 2.4GHz 2.017dB => 5.15GHz 2.171dB => 5.8GHz			1.803dB => 2.4GHz 2.700dB => 5.15GHz 2.906dB => 5.8GHz
Description (Color, Diameter, Manufacturer)	Color => White, O.D. 1.37mm, Foxconn, Kurabe, Junkosha, or Nissei Coaxial cable			Color => Black, O.D. 1.37mm, Foxconn, Kurabe, Junkosha, or Nissei Coaxial cable		

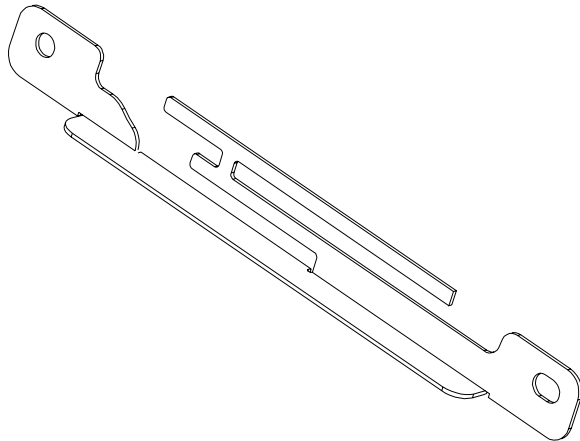
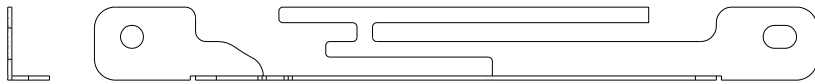
Note: For single cable assembly (no mid-line connector), use the 'Total' column for each cable length and list N/A in the 'LCD' and 'Base' fields
Cable Loss should be reported for the total cable assembly (for both Main and Aux antennas)

Antenna Assembly Drawing

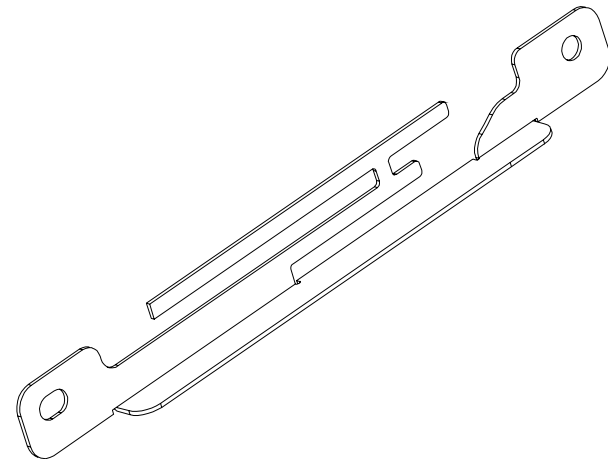
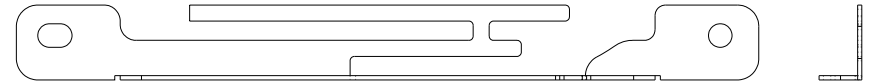


Antenna Body Drawing / Photo

(Left Antenna)

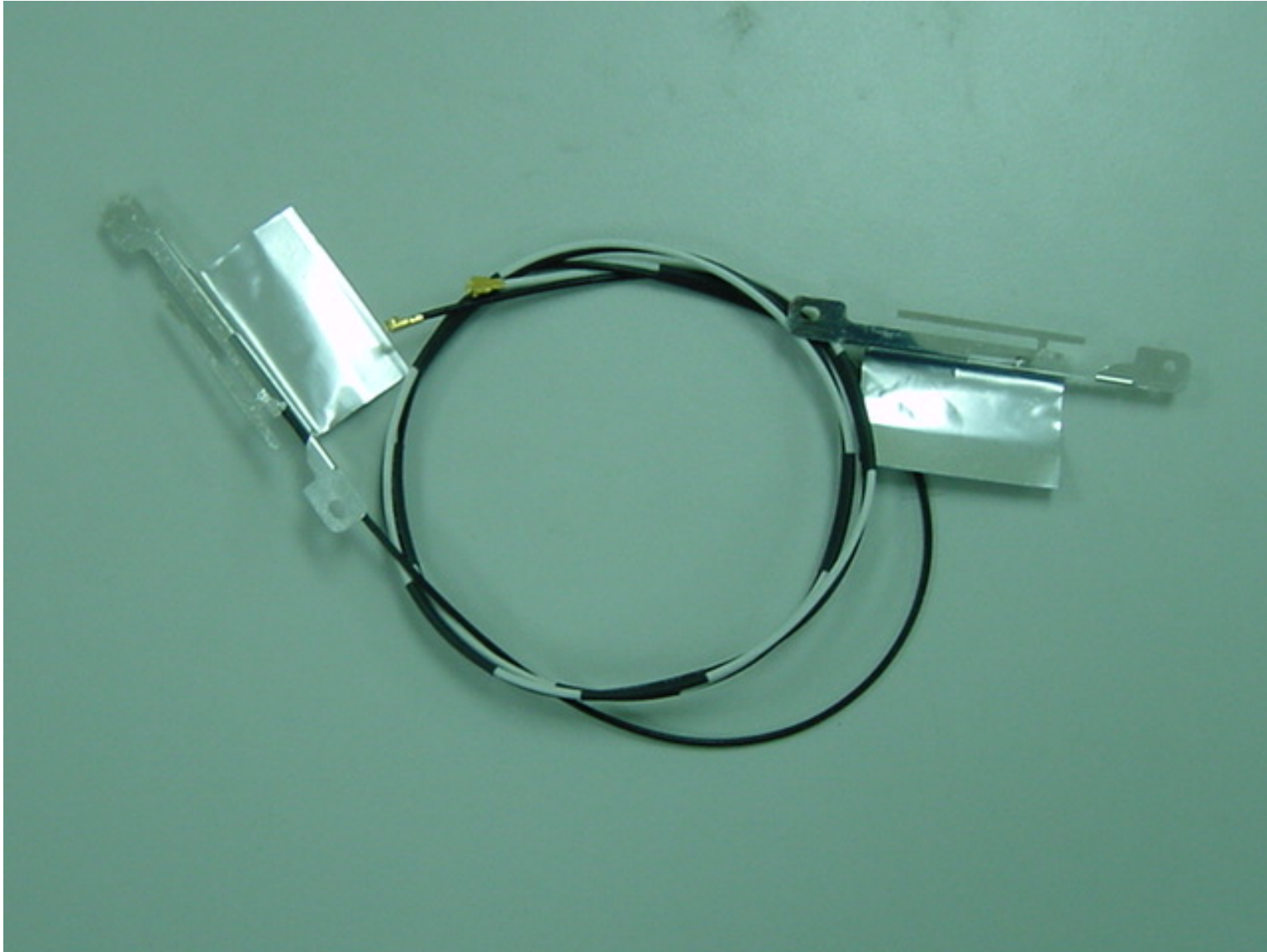


(Right Antenna)

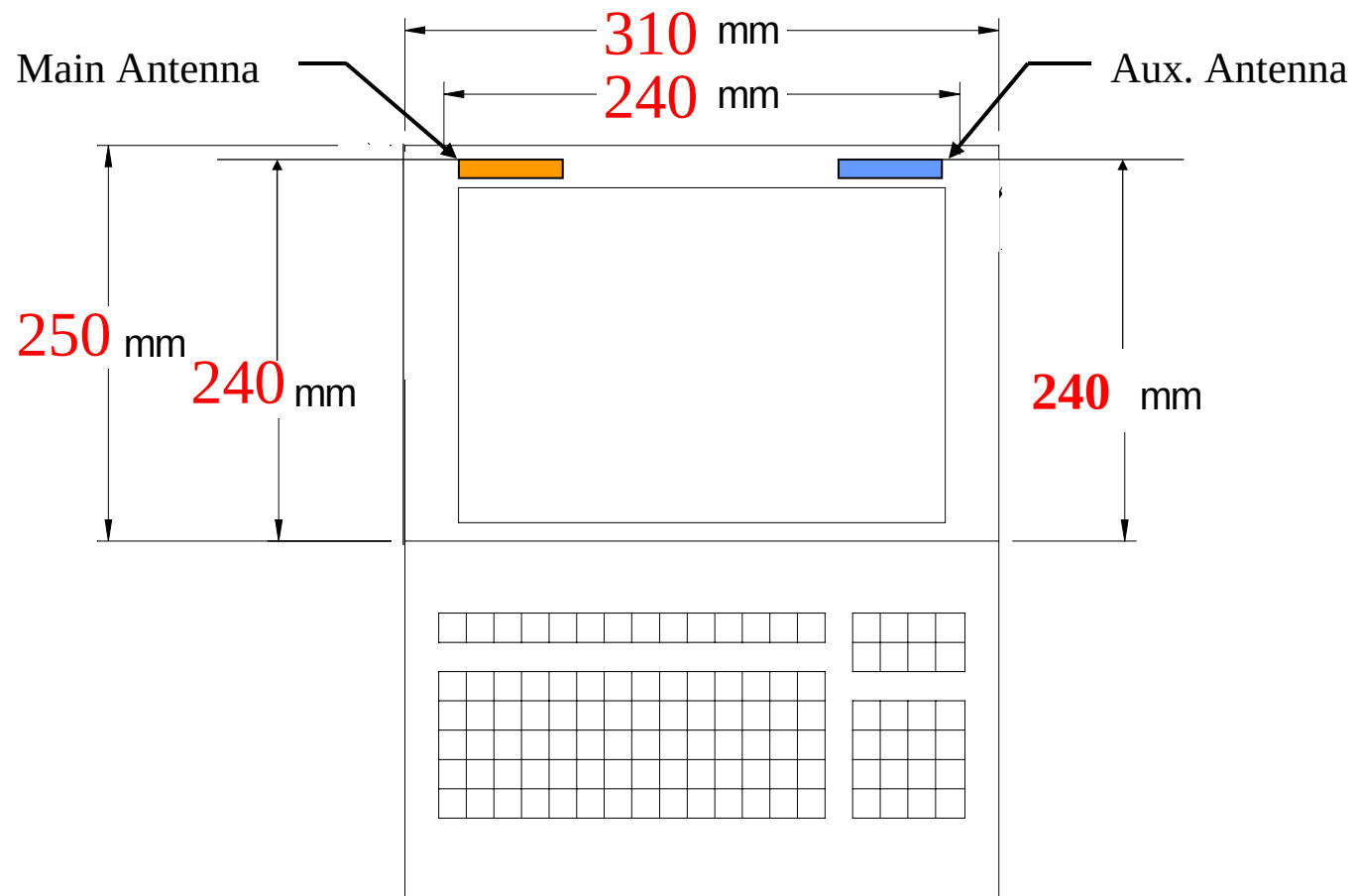




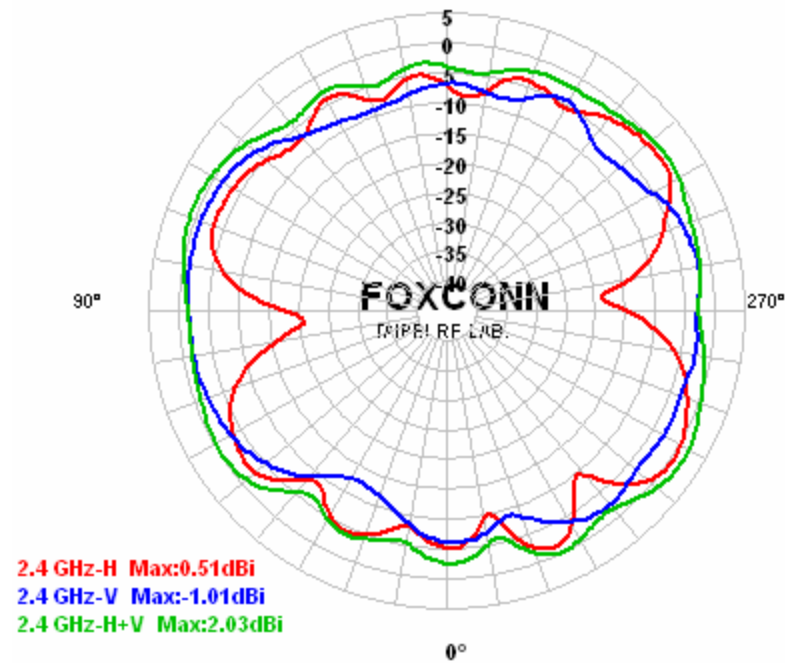
Antenna Assembly Photo



Antenna Location in NB

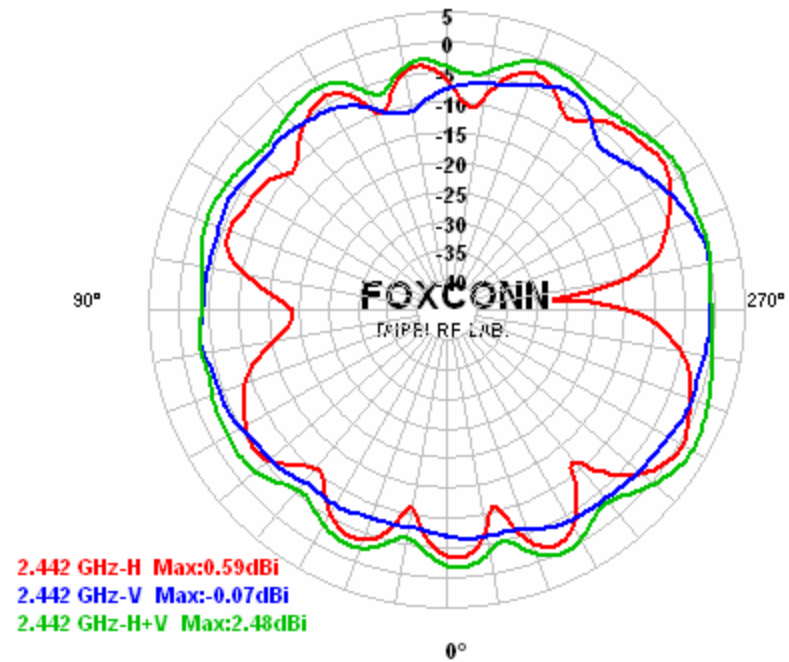


Main antenna: 2400 MHz



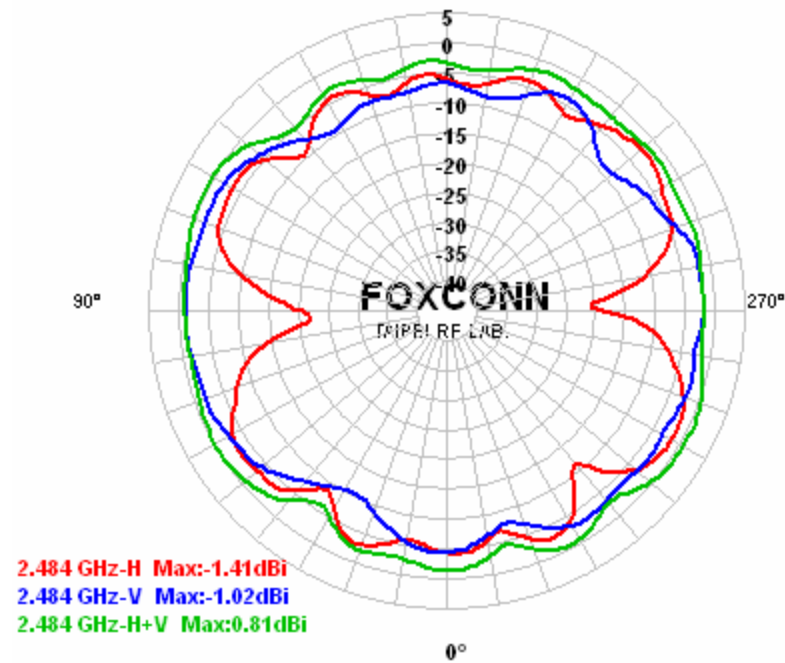
Center Frequency	2400 MHz
Horizontal peak gain (dBi)	0.51
Vertical peak gain (dBi)	-1.01
Horz +Vert peak gain(dBi)	2.03

Main antenna: 2442 MHz



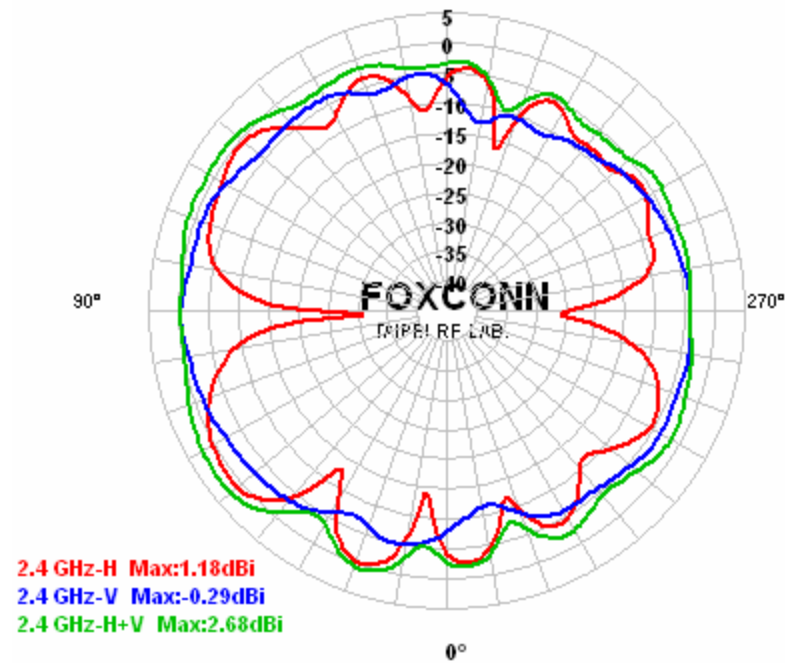
Center Frequency	2442 MHz
Horizontal peak gain (dBi)	0.59
Vertical peak gain (dBi)	-0.07
Horz +Vert peak gain(dBi)	2.48

Main antenna: 2484 MHz



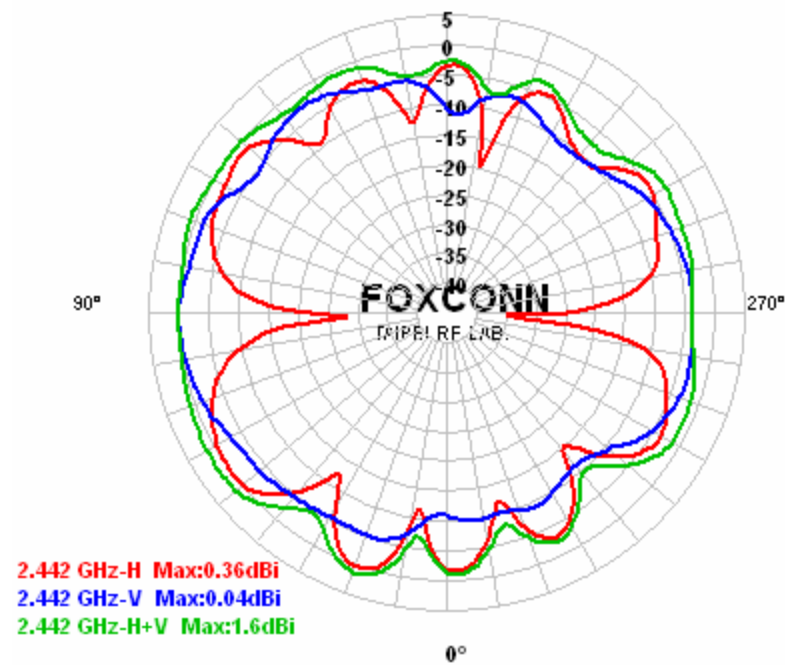
Center Frequency	2484 MHz
Horizontal peak gain (dBi)	-1.41
Vertical peak gain (dBi)	-1.02
Horz +Vert peak gain(dBi)	0.81

Aux antenna: 2400 MHz



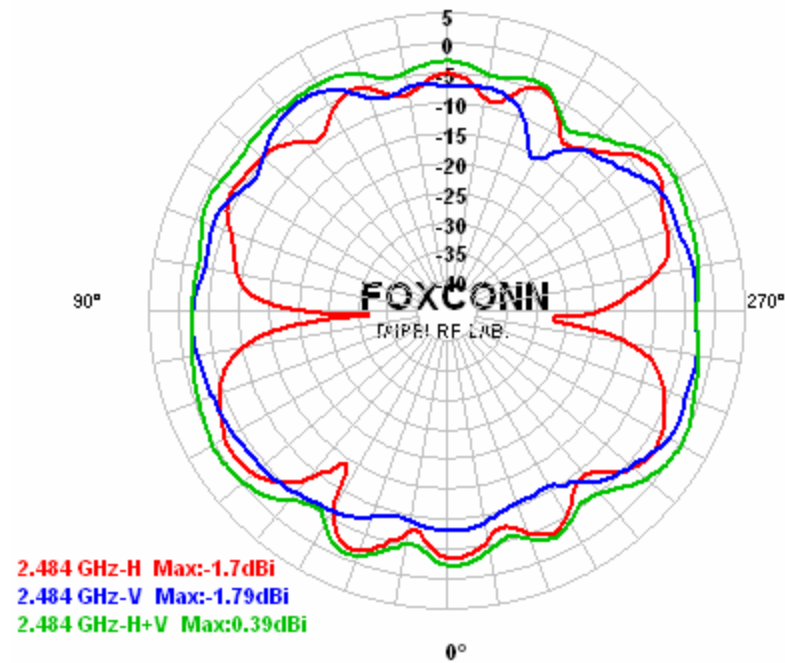
Center Frequency	2400 MHz
Horizontal peak gain (dBi)	1.18
Vertical peak gain (dBi)	-0.29
Horz +Vert peak gain(dBi)	2.68

Aux antenna: 2442 MHz



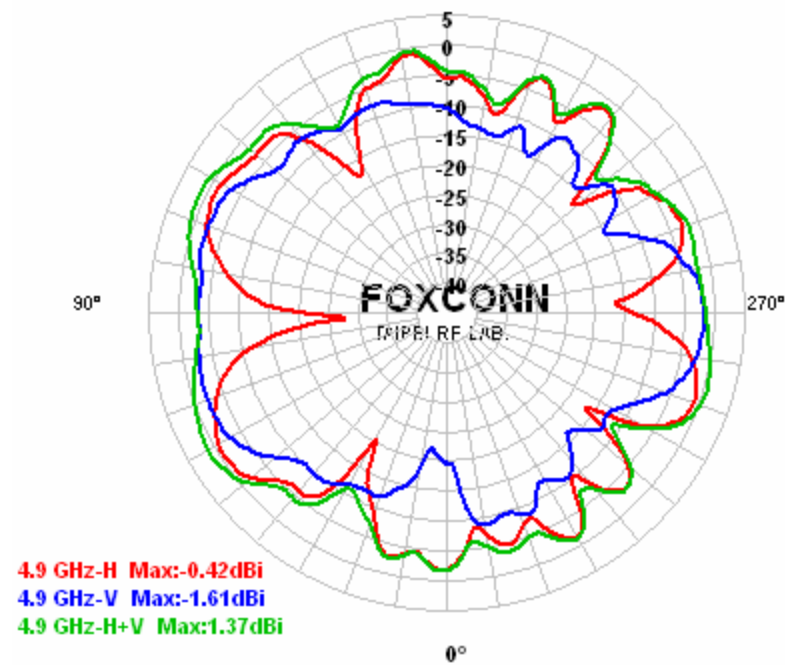
Center Frequency	2442 MHz
Horizontal peak gain (dBi)	0.36
Vertical peak gain (dBi)	0.04
Horz +Vert peak gain(dBi)	1.60

Aux antenna: 2484 MHz



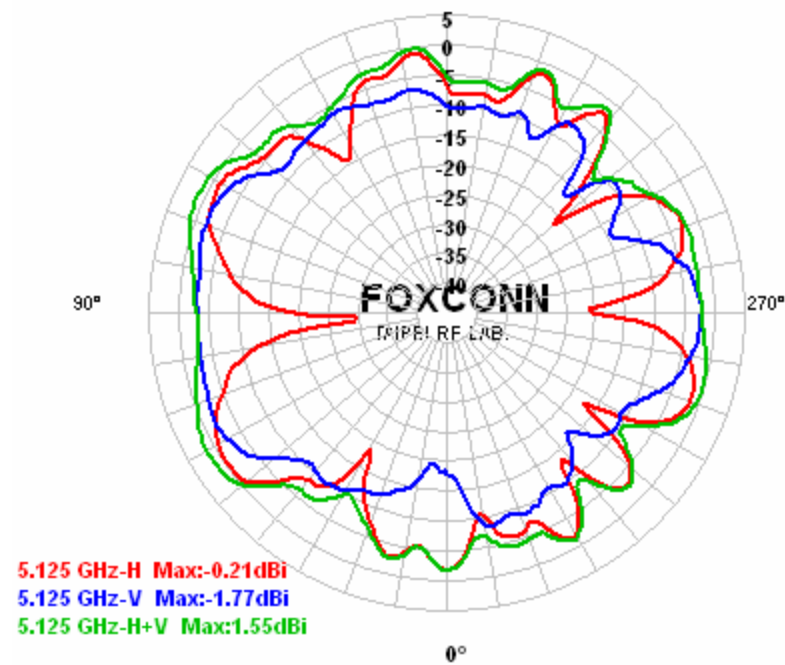
Center Frequency	2484 MHz
Horizontal peak gain (dBi)	-1.70
Vertical peak gain (dBi)	-1.79
Horz +Vert peak gain(dBi)	0.39

Main antenna: 4900 MHz



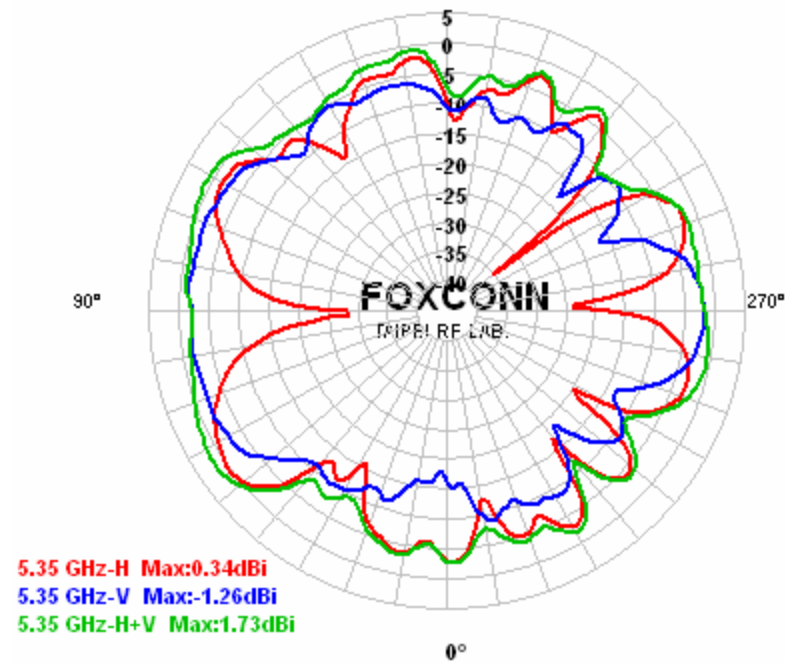
Center Frequency	4900 MHz
Horizontal peak gain (dBi)	-0.42
Vertical peak gain (dBi)	-1.61
Horz +Vert peak gain(dBi)	1.37

Main antenna: 5125 MHz



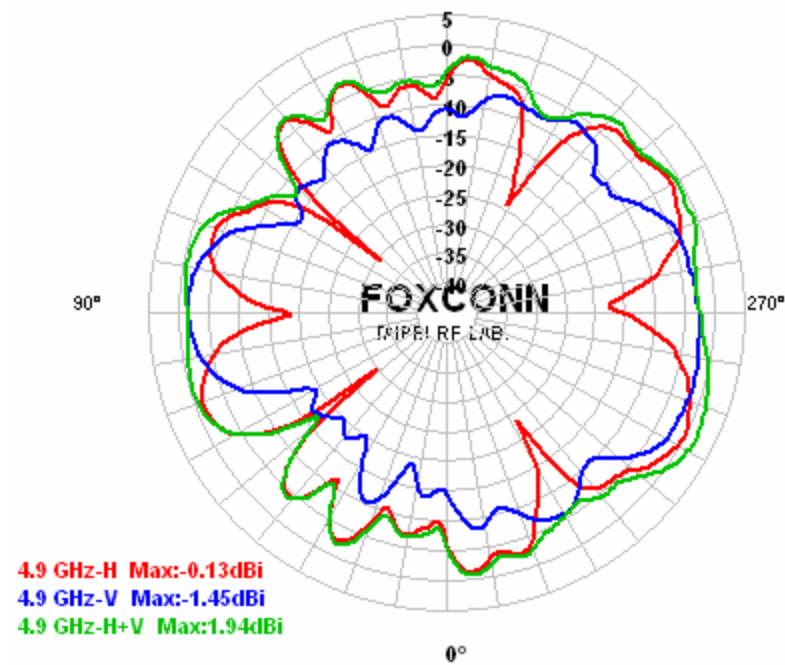
Center Frequency	5125 MHz
Horizontal peak gain (dBi)	-0.21
Vertical peak gain (dBi)	-1.77
Horz +Vert peak gain(dBi)	1.55

Main antenna: 5350 MHz



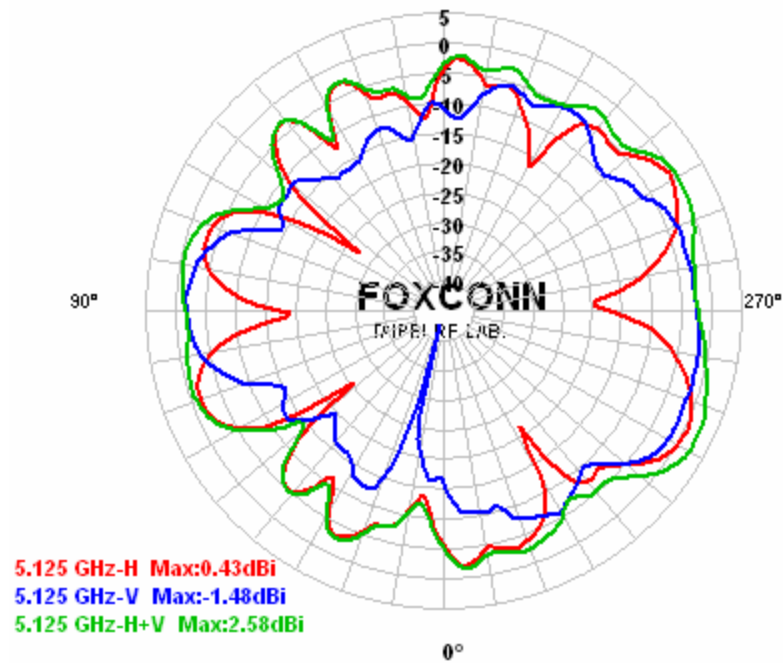
Center Frequency	5350 MHz
Horizontal peak gain (dBi)	0.34
Vertical peak gain (dBi)	-1.26
Horz +Vert peak gain(dBi)	1.73

Aux antenna: 4900 MHz



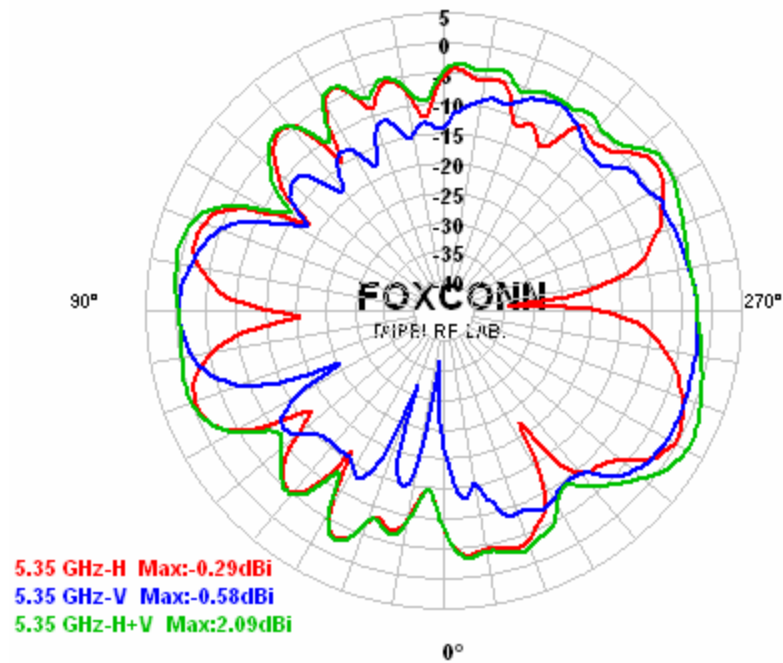
Center Frequency	4900 MHz
Horizontal peak gain (dBi)	-0.13
Vertical peak gain (dBi)	-1.45
Horz +Vert peak gain(dBi)	1.94

Aux antenna: 5125 MHz



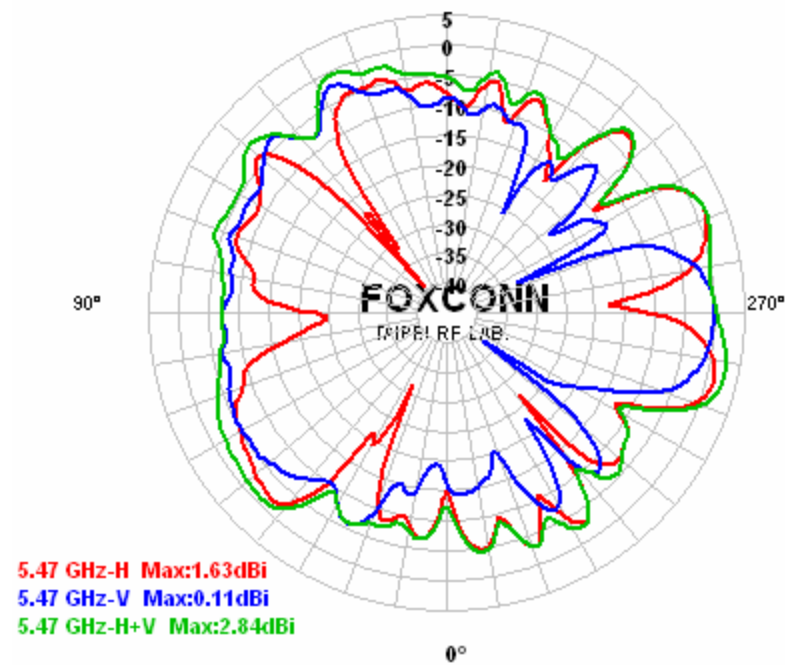
Center Frequency	5125 MHz
Horizontal peak gain (dBi)	0.43
Vertical peak gain (dBi)	-1.48
Horz +Vert peak gain(dBi)	2.58

Aux antenna: 5350 MHz



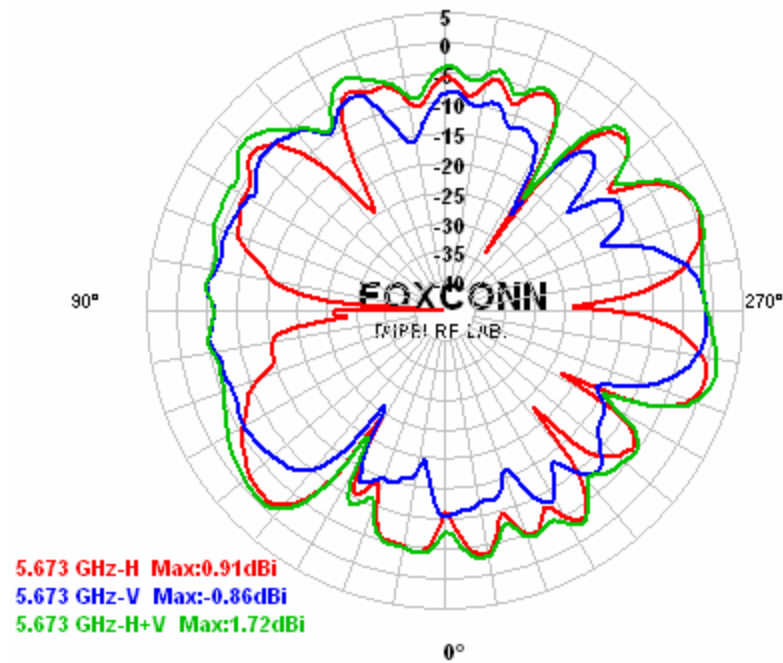
Center Frequency	5350 MHz
Horizontal peak gain (dBi)	-0.29
Vertical peak gain (dBi)	-0.58
Horz +Vert peak gain(dBi)	2.09

Main antenna: 5470 MHz



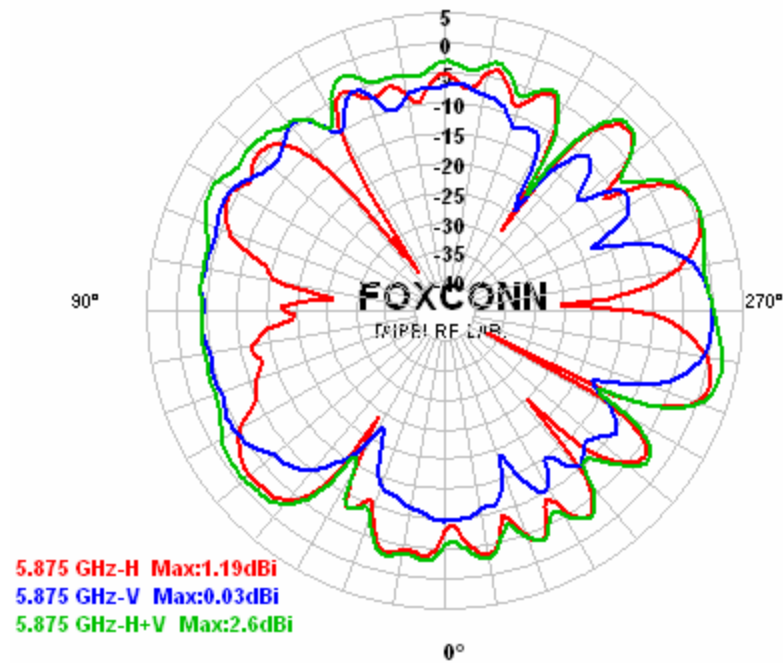
Center Frequency	5470 MHz
Horizontal peak gain (dBi)	1.63
Vertical peak gain (dBi)	0.11
Horz +Vert peak gain(dBi)	2.84

Main antenna: 5673 MHz



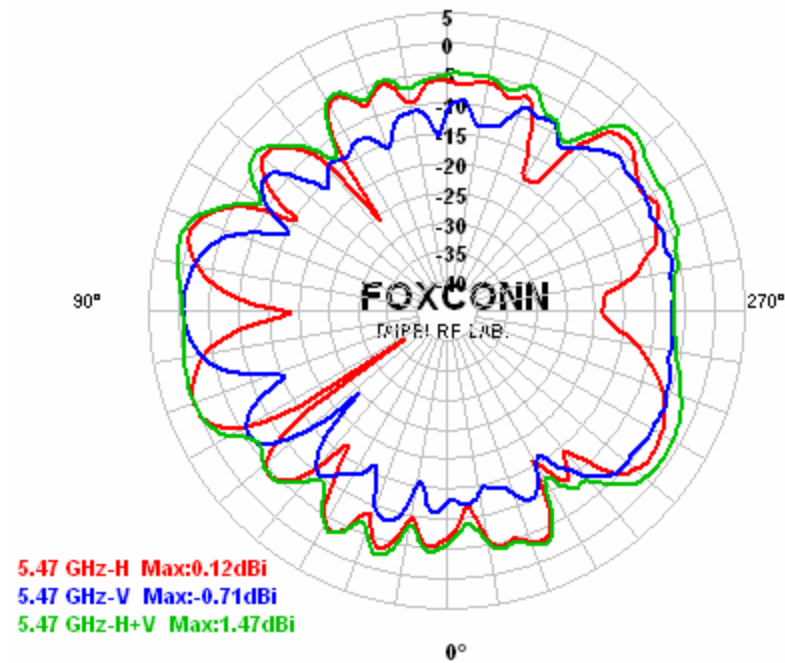
Center Frequency	5673 MHz
Horizontal peak gain (dBi)	0.91
Vertical peak gain (dBi)	-0.86
Horz +Vert peak gain(dBi)	1.72

Main antenna: 5875 MHz



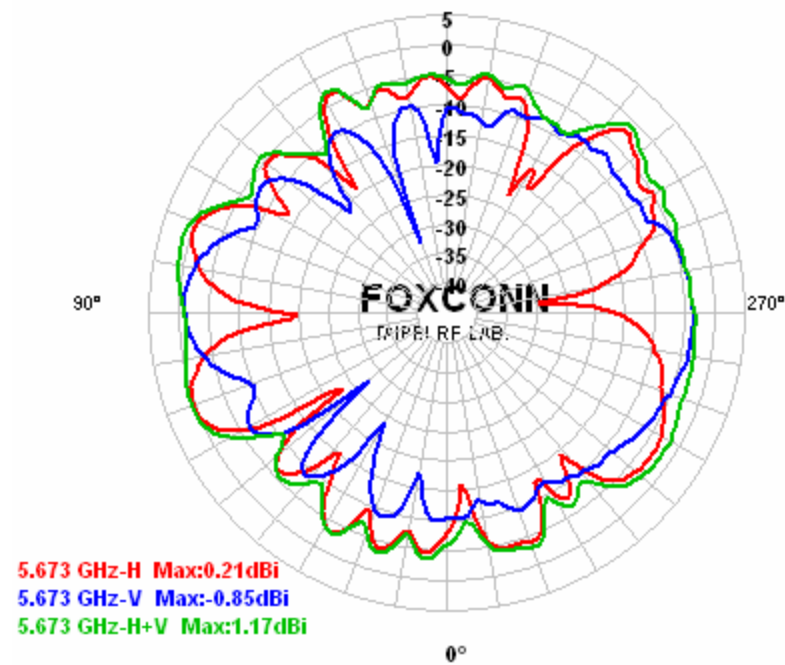
Center Frequency	5875 MHz
Horizontal peak gain (dBi)	1.19
Vertical peak gain (dBi)	0.03
Horz +Vert peak gain(dBi)	2.60

Aux antenna: 5470 MHz



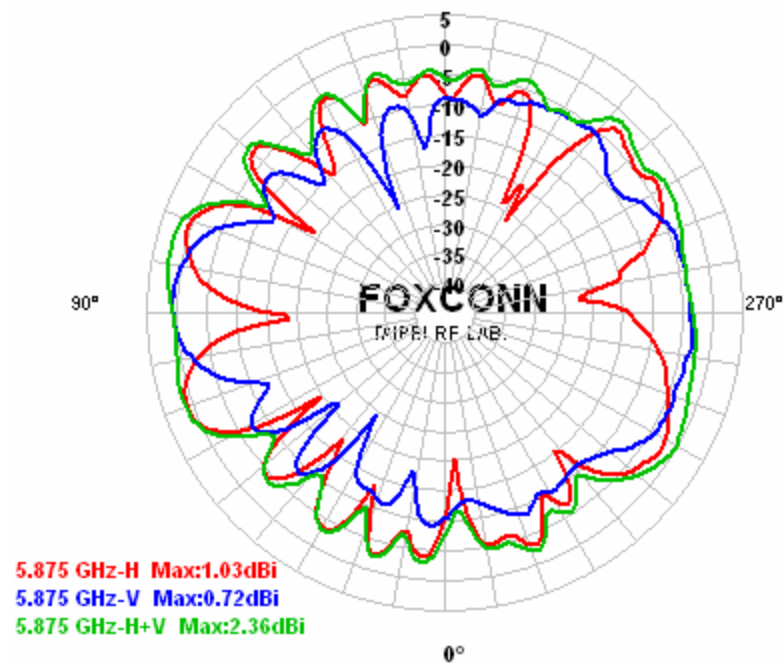
Center Frequency	5470 MHz
Horizontal peak gain (dBi)	0.12
Vertical peak gain (dBi)	-0.71
Horz +Vert peak gain(dBi)	1.47

Aux antenna: 5673 MHz



Center Frequency	5673 MHz
Horizontal peak gain (dBi)	0.21
Vertical peak gain (dBi)	-0.85
Horz +Vert peak gain(dBi)	1.17

Aux antenna: 5875 MHz



Center Frequency	5875 MHz
Horizontal peak gain (dBi)	1.03
Vertical peak gain (dBi)	0.72
Horz +Vert peak gain(dBi)	2.36