

HR60(Pavilion) Antenna Information for HP

Wistron NeWeb Corporation

HP HR60 Antenna Information

I. Antenna Assembly Specifications

Antenna assembly overview: Peak Gain including cable loss.

Designator	Manufacture	Antenna type	Cable Assembly Info.	Peak Gain W/ Cable loss (dBi)
Main antenna (P/N:81.EBC15.002)	WNC	Metal PIFA	(1) P/N: J12B1394-1 50 ohm Coaxial. length: 46cm diameter: 1.13mm (2) P/N:20278-101R-13 Connector: I-PEX	2400-2500MHz 2.78 dBi(peak)
				5150-5350MHz 1 dBi(peak)
				5470-5825MHz 1.82 dBi(peak)
Auxiliary antenna (P/N:81.EBC15.001)	WNC	Metal PIFA	(1)P/N: J12B1394-2 50 ohm Coaxial. length: 43cm diameter: 1.13mm (2)P/N:20278-101R-13 Connector: I-PEX	2400-2500MHz 2.12dBi (peak)
				5150-5350MHz 0.81 dBi (peak)
				5470-5825MHz 0.76 dBi (peak)

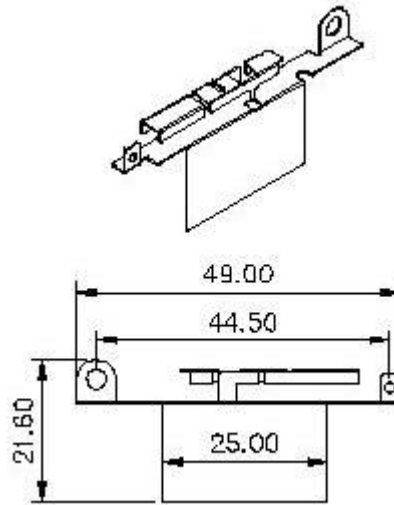
Antenna overview: Peak Gain not including cable loss.

Antenna Designator	Manufacture	Antenna type	Peak Gain w/o Cable Loss (dBi)
Main antenna (P/N:81.EBC15.002)	WNC	Metal PIFA	2400-2500MHz 5.02 dBi(peak)
			5150-5350MHz 4.33 dBi(peak)
			5470-5825MHz 5.28 dBi(peak)
Auxiliary antenna (P/N:81.EBC15.001)	WNC	Metal PIFA	2400-2500MHz 4.51dBi (peak)
			5150-5350MHz 4.37 dBi (peak)
			5470-5825MHz 4.47 dBi (peak)

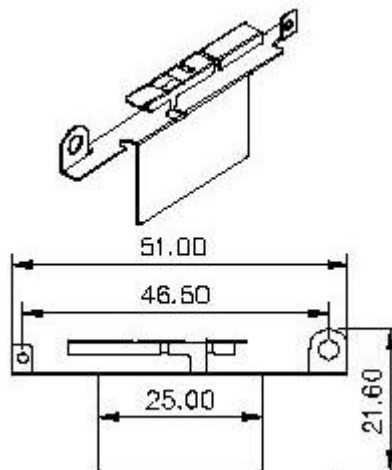
Cable assembly overview: Cable loss (including connector).

Designator	Manufacture	Cable type and length	VSWR	Cable Loss (dBi)
P/N: 50.EBC04.001 For use with the Main antenna	WNC	P/N: 50.EBC04.001 50 ohm Coaxial. length: 62cm diameter: 1.13mm Connector: I-PEX	2400-2500MHz 1.59 max	2400-2500MHz 2.24 dBi (peak)
			5150-5350MHz 1.59max	5150-5350MHz 3.33 dBi (peak)
			5470-5825MHz 1.33 max	5470-5825MHz 3.46dBi(peak)
P/N: 50.EBC05.001 For use with the Auxiliary antenna	WNC	P/N: 50.EBC05.001 50 ohm Coaxial. length: 67cm diameter: 1.13mm Connector: I-PEX	2400-2500MHz 1.49 max	2400-2500MHz 2.37 dBi (peak)
			5150-5350MHz 1.48 max	5150-5350MHz 3.56 dBi (peak)
			5470-5825MHz 1.60 max	5470-5825MHz 3.71 dBi(peak)

Antenna mechanical drawings.
A.Main antenna (Right_side antenna)



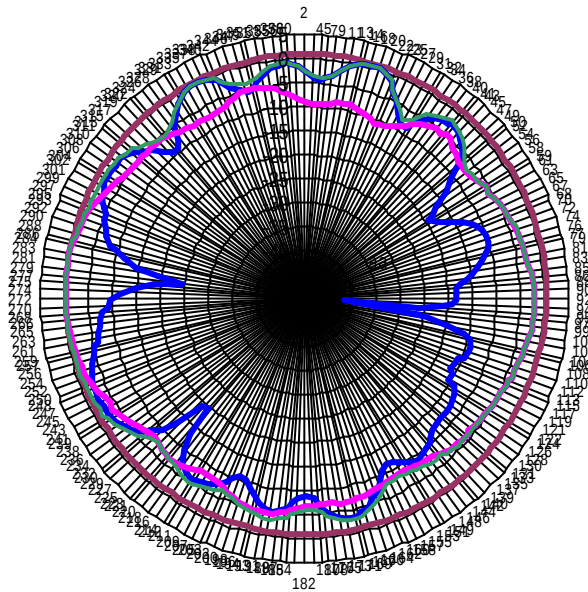
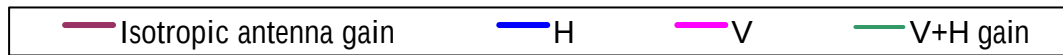
B.AUXiliary antenna(Left_side antenna)



Radiation characteristic of antennae Loaded (In Host System)

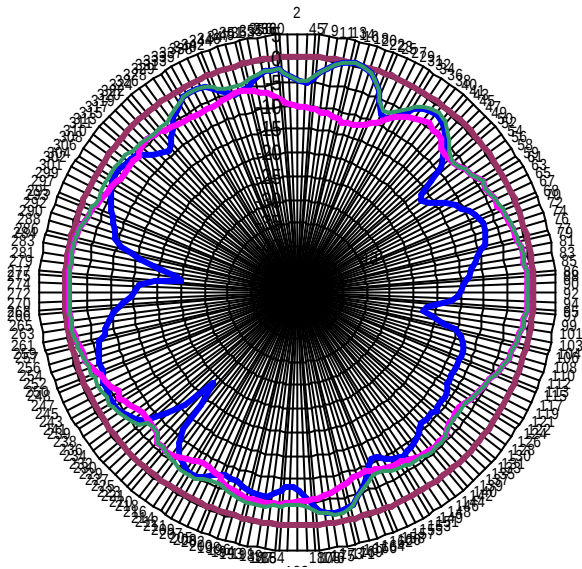
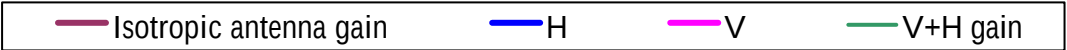
2400-2500MHz radiation characteristic

Main antenna @2.4GHz



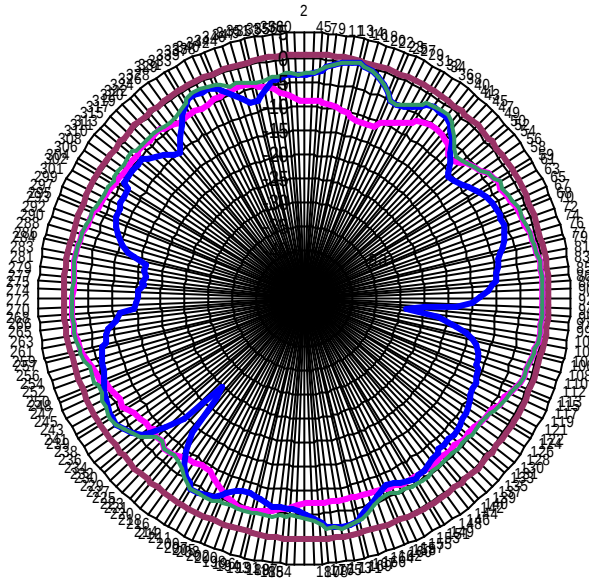
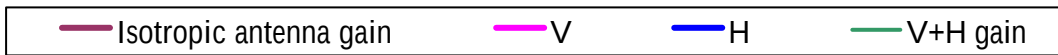
Center Frequency	2400 MHz
Horizontal (dBi) peak	2.55
Vertical (dBi) peak	1.62
Horz+Vert (dBi) peak	2.78

Main antenna @2.45GHz



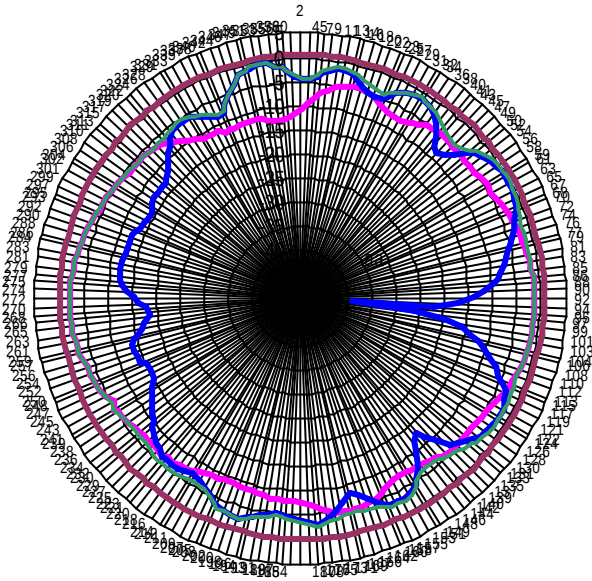
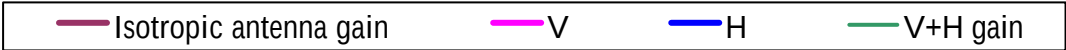
Center Frequency	2450 MHz
Horizontal (dBi) peak	2.23
Vertical (dBi) peak	1.06
Horz+Vert (dBi) peak	2.46

Main antenna @2.5GHz



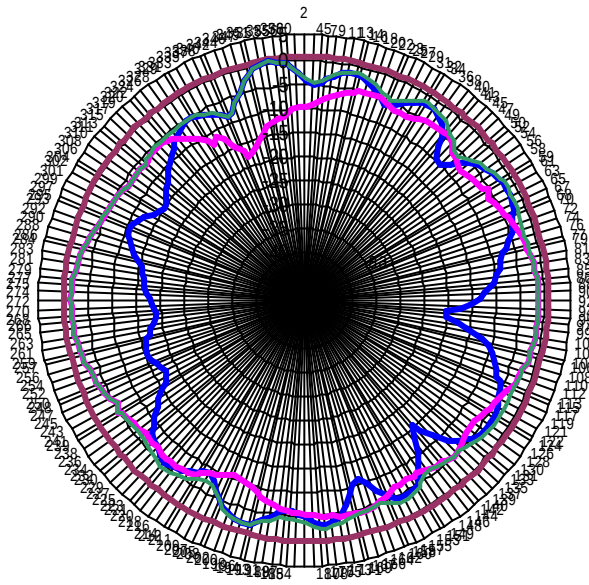
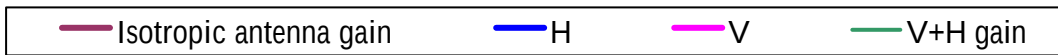
Center Frequency	2500 MHz
Horizontal (dBi) peak	2.12
Vertical (dBi) peak	1.21
Horz+Vert (dBi) peak	2.52

Aux antenna @2.4GHz



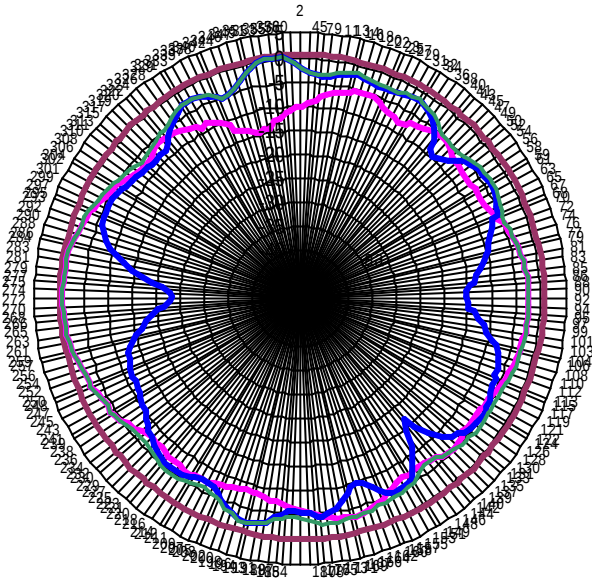
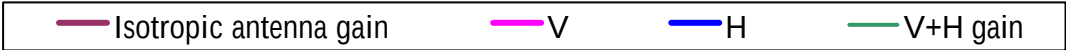
Center Frequency	2400 MHz
Horizontal (dBi) peak	1.59
Vertical (dBi) peak	0.43
Horz+Vert (dBi) peak	2.06

Aux antenna @2.45GHz



Center Frequency	2450 MHz
Horizontal (dBi) peak	1.15
Vertical (dBi) peak	0.33
Horz+Vert (dBi) peak	1.47

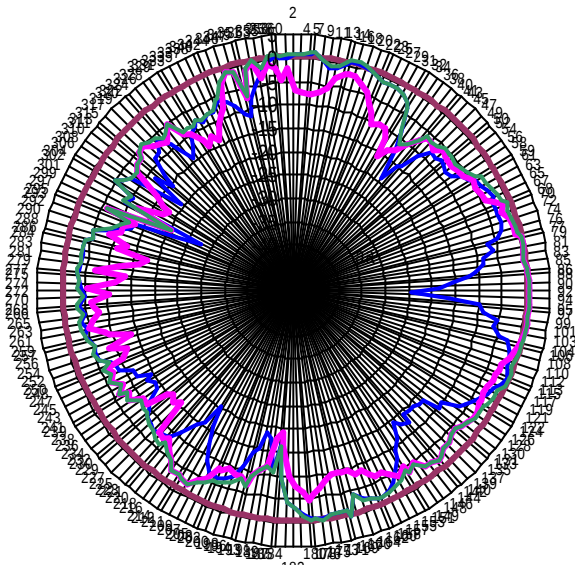
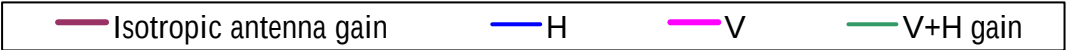
Aux antenna @2.5GHz



Center Frequency	2500 MHz
Horizontal (dBi) peak	1.83
Vertical (dBi) peak	-0.33
Horz+Vert (dBi) peak	2.12

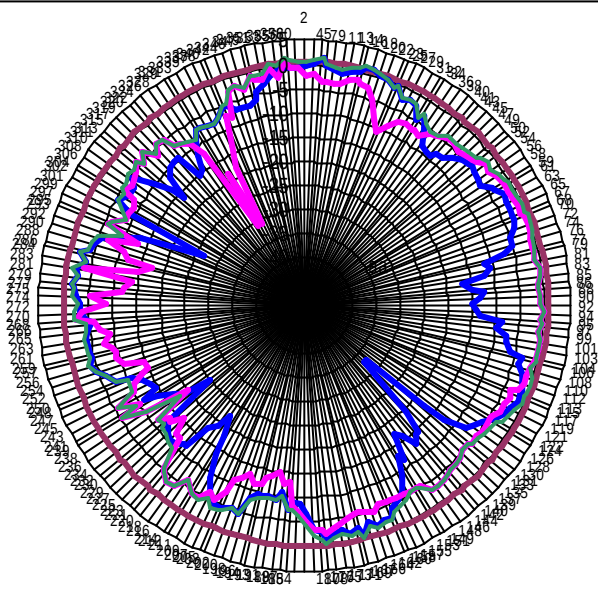
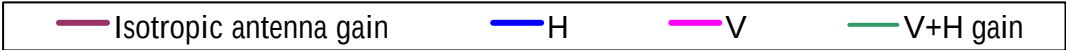
5150-5135 MHz radiation characteristic

Main antenna @5.15GHz



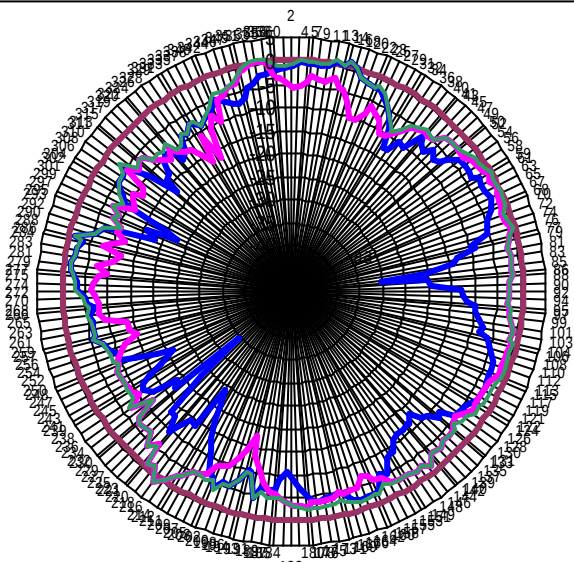
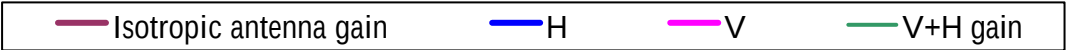
Center Frequency	5150 MHz
Horizontal (dBi) peak	0.55
Vertical (dBi) peak	-0.59
Horz+Vert (dBi) peak	1

Main antenna @5.25GHz



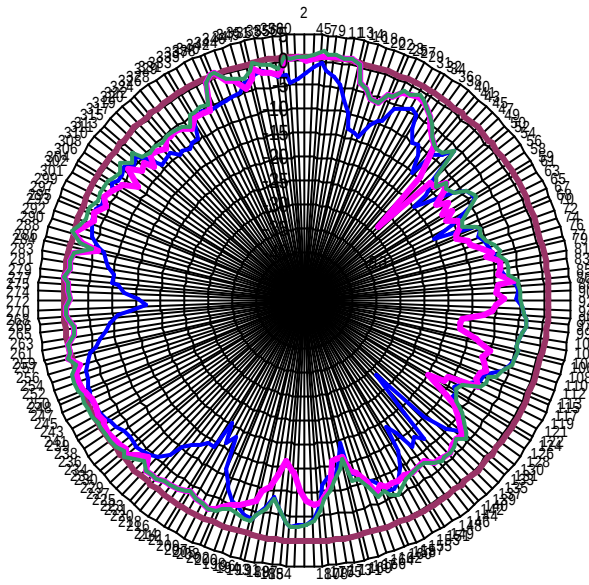
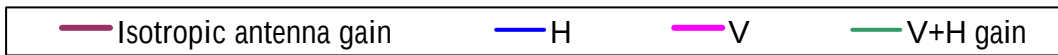
Center Frequency	5250 MHz
Horizontal (dBi) peak	-0.34
Vertical (dBi) peak	-0.95
Horz+Vert (dBi) peak	0.57

Main antenna @5.35GHz



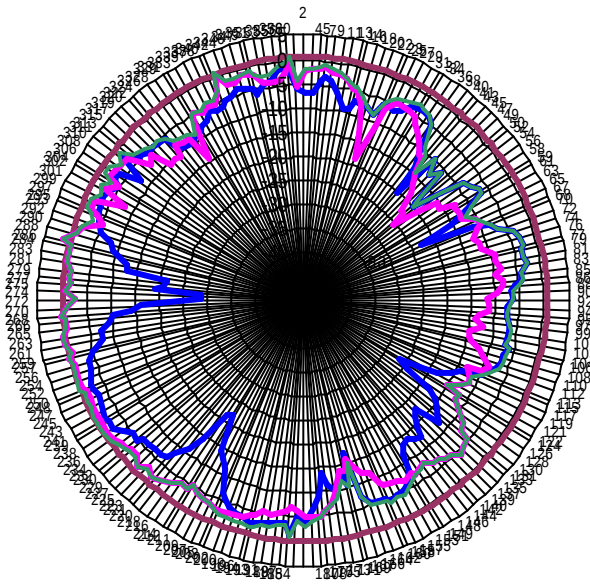
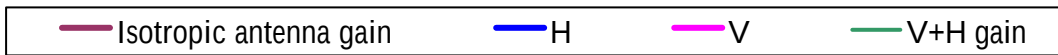
Center Frequency	5350 MHz
Horizontal (dBi) peak	-0.81
Vertical (dBi) peak	-0.93
Horz+Vert (dBi) peak	0.24

Aux antenna @5.15GHz



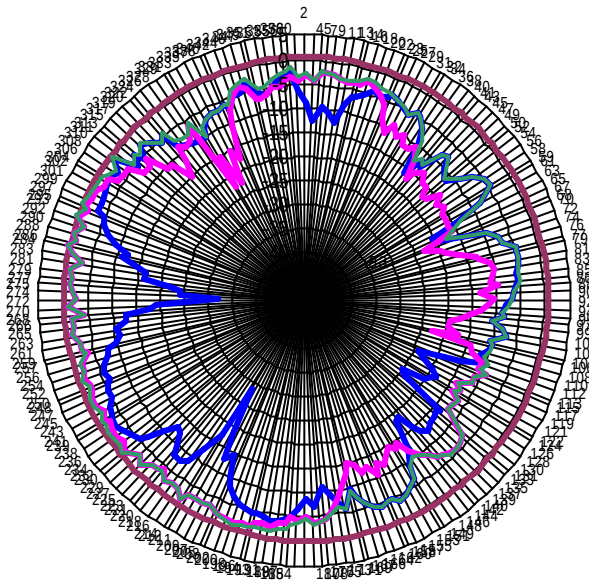
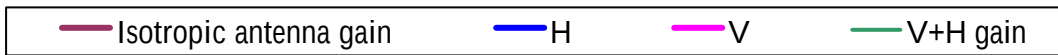
Center Frequency	5150 MHz
Horizontal (dBi) peak	-0.65
Vertical (dBi) peak	0.17
Horz+Vert (dBi) peak	0.19

Aux antenna @5.25GHz



Center Frequency	5250 MHz
Horizontal (dBi) peak	0.17
Vertical (dBi) peak	-1.47
Horz+Vert (dBi) peak	0.81

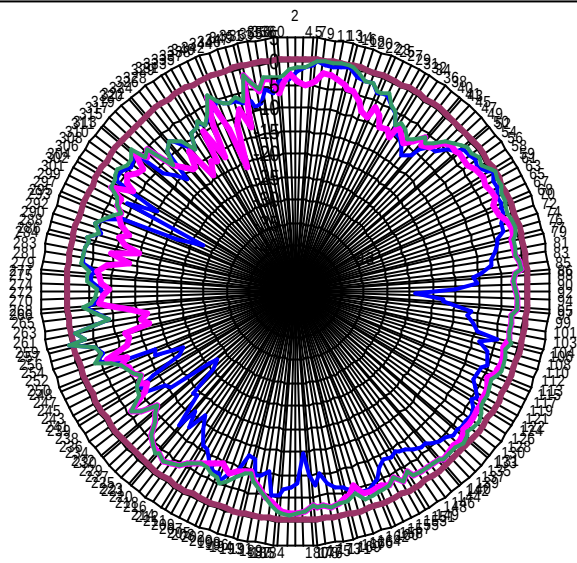
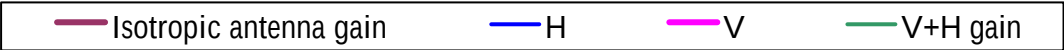
Aux antenna @5.35GHz



Center Frequency	5350 MHz
Horizontal (dBi) peak	0.11
Vertical (dBi) peak	-1.93
Horz+Vert (dBi) peak	0.45

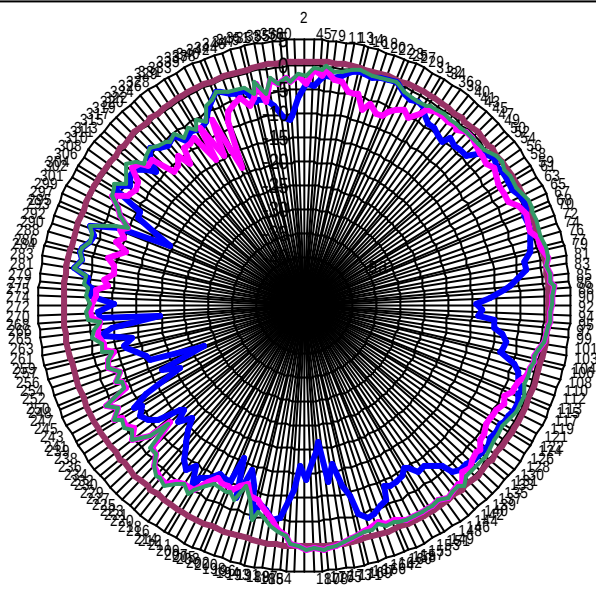
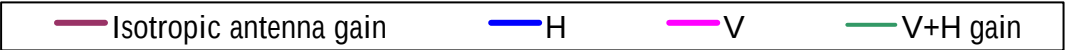
5470-5825MHz radiation characteristic

Main antenna @5.47GHz



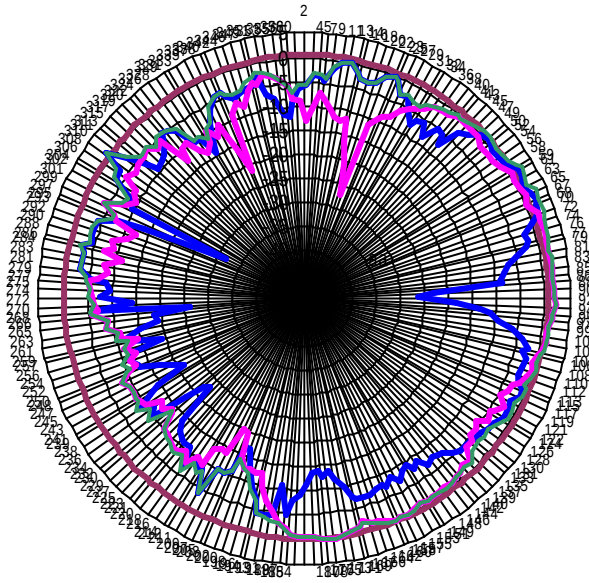
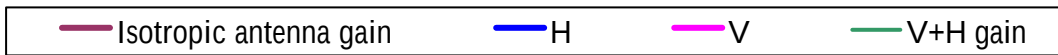
Center Frequency	5470 MHz
Horizontal (dBi) peak	1.44
Vertical (dBi) peak	0.04
Horz+Vert (dBi) peak	1.82

Main antenna @5.6475GHz



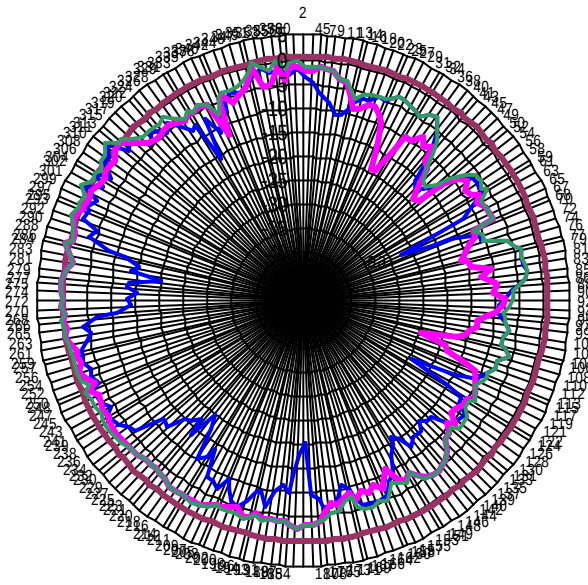
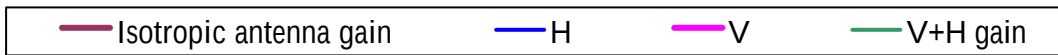
Center Frequency	5647.5 MHz
Horizontal (dBi) peak	-0.73
Vertical (dBi) peak	-0.36
Horz+Vert (dBi) peak	0.43

Main antenna @5.825GHz



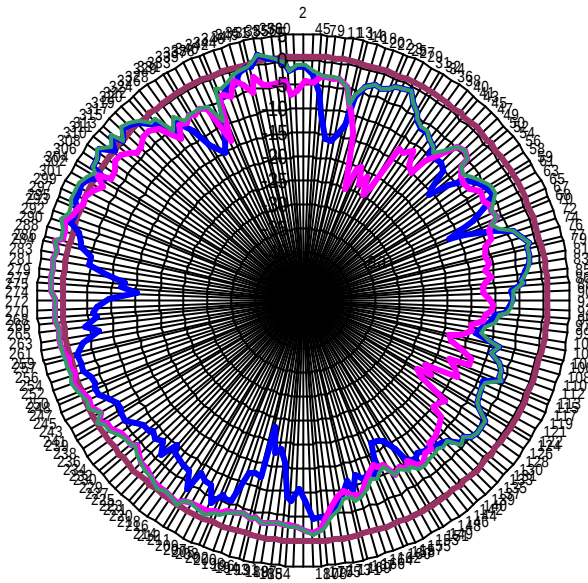
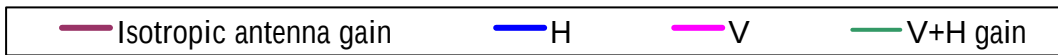
Center Frequency	5825 MHz
Horizontal (dBi) peak	0.62
Vertical (dBi) peak	0.44
Horz+Vert (dBi) peak	0.89

Aux antenna @5.47GHz



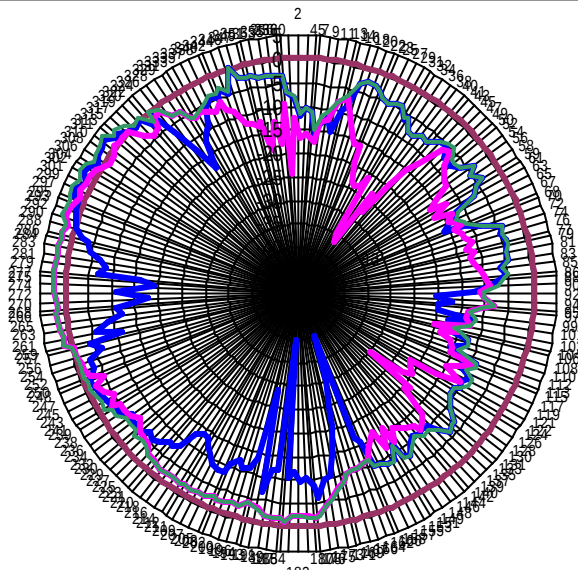
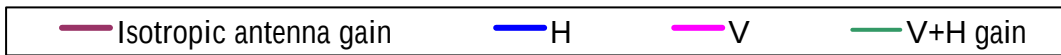
Center Frequency	5470 MHz
Horizontal (dBi) peak	0.64
Vertical (dBi) peak	-2.06
Horz+Vert (dBi) peak	0.76

Aux antenna @5.6475GHz



Center Frequency	5647.5 MHz
Horizontal (dBi) peak	0.14
Vertical (dBi) peak	-0.40
Horz+Vert (dBi) peak	0.61

Aux antenna @5.825GHz



Center Frequency	5825 MHz
Horizontal (dBi) peak	-1.84
Vertical (dBi) peak	0.73
Horz+Vert (dBi) peak	0.74

Host PC Information

Host model:

Main Antenna



Auxiliary Antenna

