

APPROVAL SHEET

Customer Name: Wistron

Date:2021/12/13

Doc. Version: A01

OEM P/N	260-29106		
Wistron P/N	2348-05574-001\$AA		
Description	Antennas Type : PCB Antenna for WLAN 802.11a/b/g/n/ac application: VOIP Connector Type : IPEX4 Cable Type : 1.13 white normal cable Impedance : 50Ω Polarization : Linear Radiation pattern : Omni-directional		
Version			

Provided By Wistron NeWeb Corp	Reviewed By Wistron NeWeb Corp	Approved By Customer

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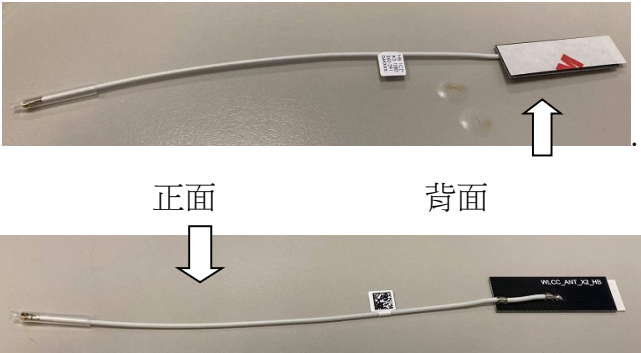
1. Introduction

Antenna for 802.11 a/b/g/n/ac system

Main antenna (PCB)

- 1. Location: Below of the Panel
- 2.Cable length of Main antenna:

110mm, White

	Main Antenna	
Position	Below of the panel	
Antenna Type	PCB Antenna	
Cable	1.13 Normal white cable	
Photos		
Position		
Antenna Type		
Cable		
Photos		

2. Revision History

Date	Version	Revision History
01/28/2021	A01	New Release

3. Product Specifications

3.1 Specifications of Antenna Design

3.1.1 VSWR

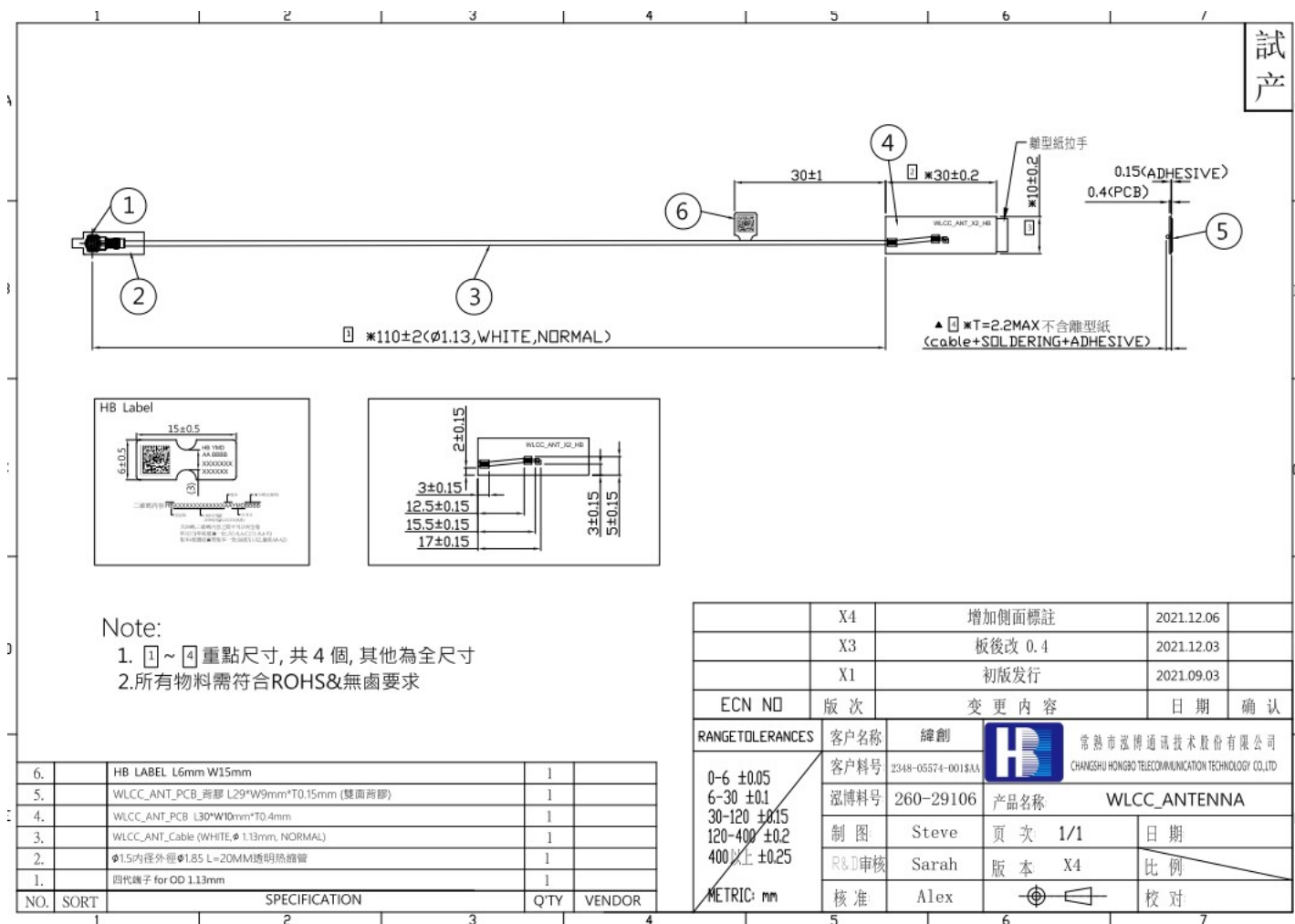
VSWR	2G4 ISM (2.400 GHz - 2.4835 GHz)			U-NII (5.150 GHz - 5.350 GHz)			HyperLAN (5.470 GHz - 5.85 GHz)				
	2.40 GHz	2.45GHz	2.50GHz	5.15 GHz	5.25GHz	5.35 GHz	5.47 GHz	5.5975 GHz	5.725 GHz	5.785 GHz	5.85 GHz
MAIN	1.50	1.52	1.86	1.69	1.57	1.43	1.17	1.32	1.46	1.21	1.28

3.1.2 Average gain and peak gain

Antenna Gain		2G4 ISM (2.400 GHz - 2.4835 GHz)			U-NII (5.150 GHz - 5.350 GHz)			HyperLAN (5.470 GHz - 5.85 GHz)				
		2.40 GHz	2.45 GHz	2.50GHz	5.15 GHz	5.25 GHz	5.35 GHz	5.47 GHz	5.5975 GHz	5.725 GHz	5.785 GHz	5.85 GHz
MAIN	Peak dBi	1.24	1.55	1.14	2.60	2.95	2.69	2.63	2.61	0.60	0.24	0.28
	Avg dBi	-2.44	-2.64	-2.79	-2.10	-2.12	-2.06	-2.09	-2.02	-2.23	-2.14	-2.09

3.2 Mechanical Specifications

See the attached drawing.

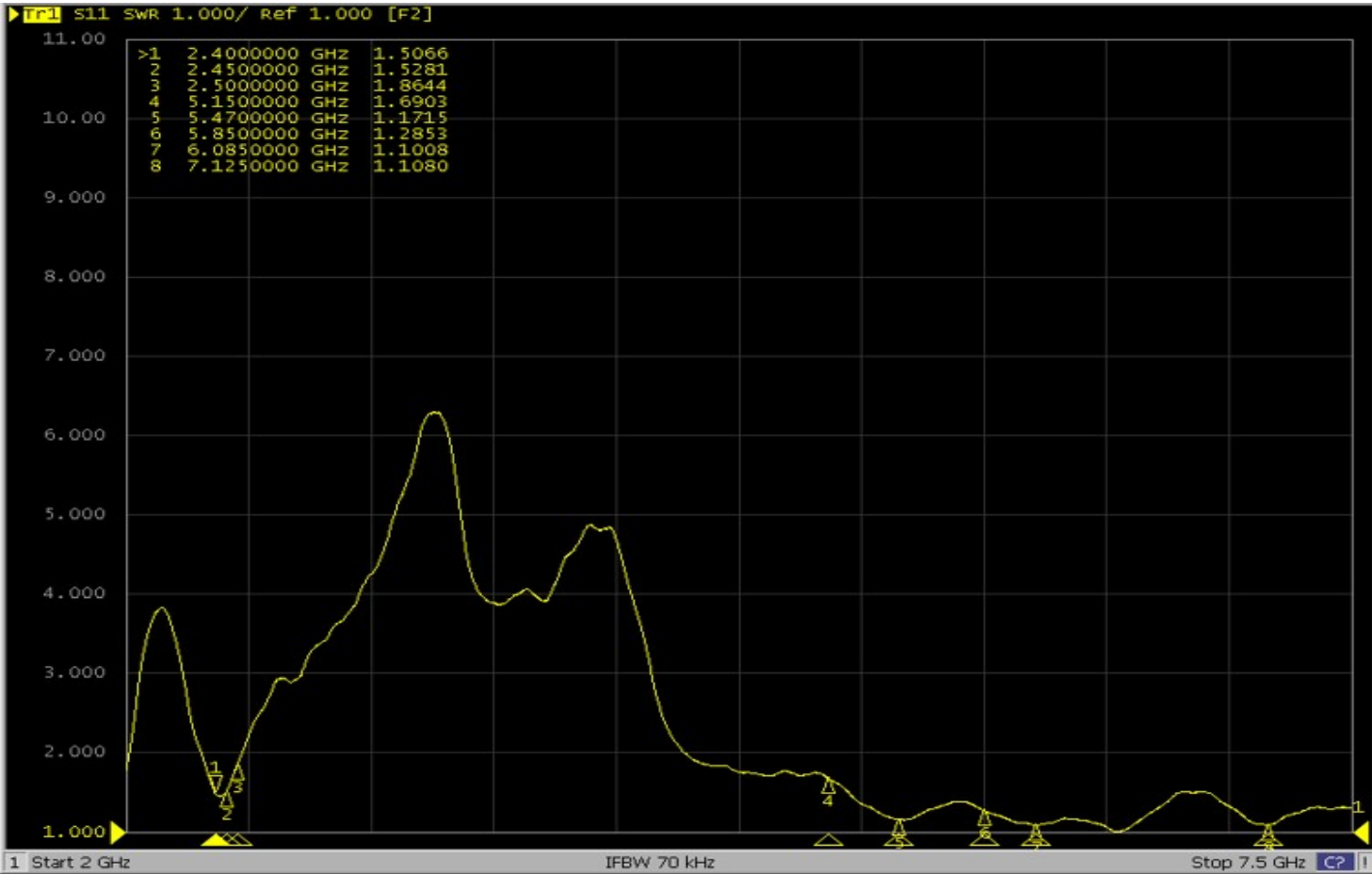


3.3 Antenna Material List

Antenna
1. PCB
2. Coaxial cable and IPEX NGFF connector
3. Label
4. Antenna weight:

4 Antenna Performance

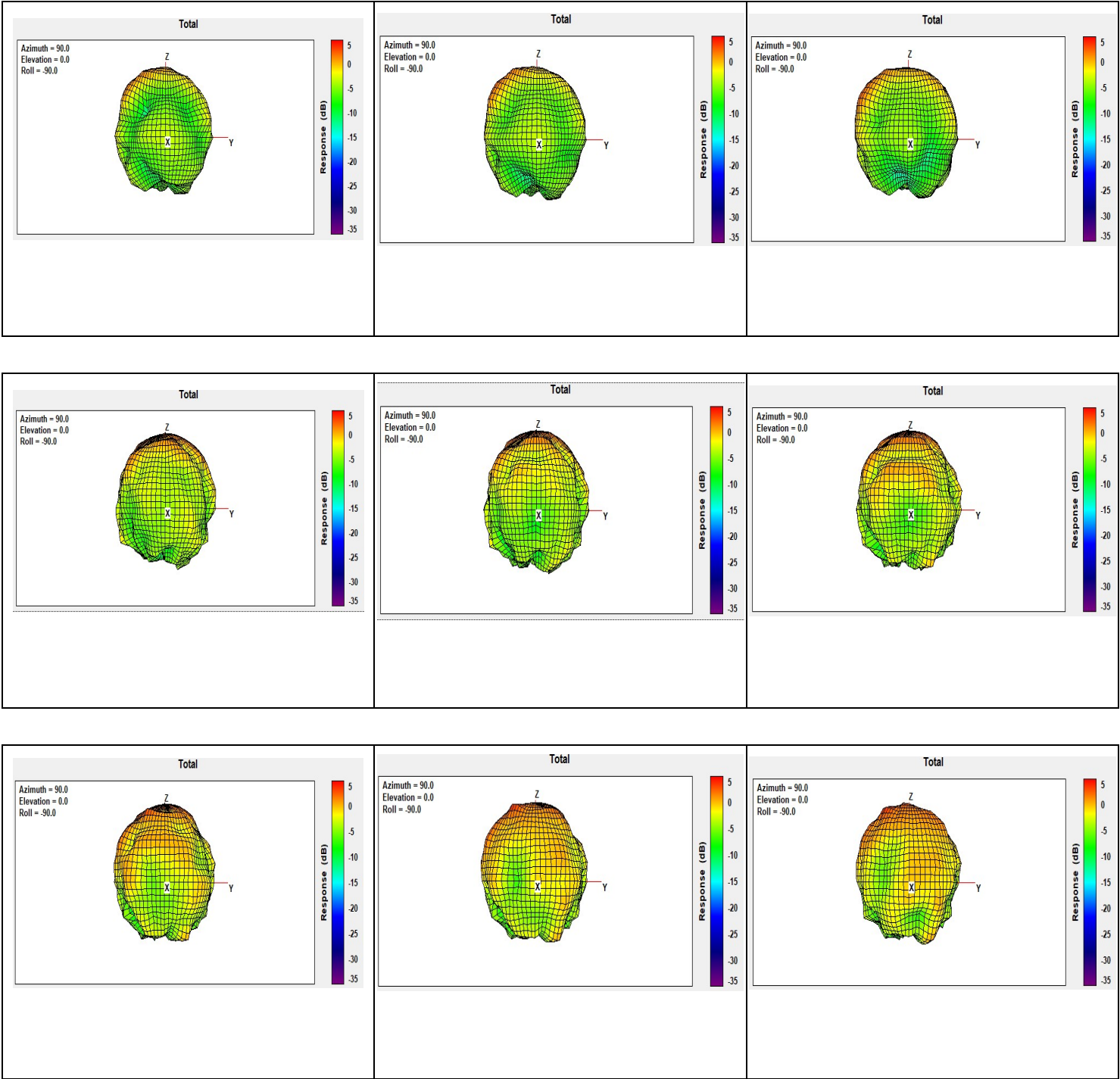
4.1 VSWR

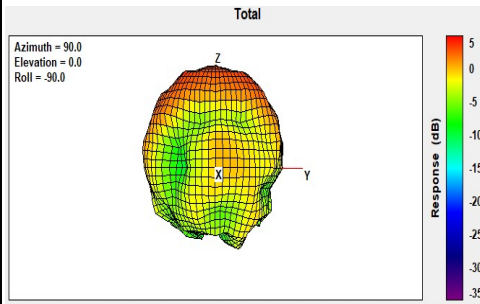
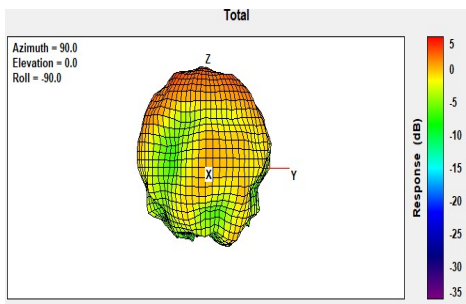


4.2 Peak Gain and Average Gain

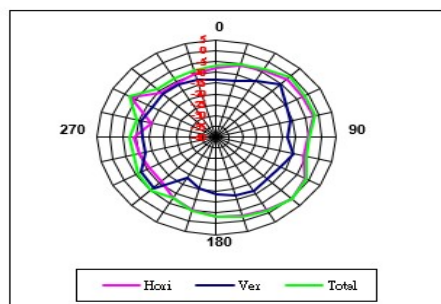
	Main Antenna Gain				
Frequency	2D		3D		
	H-peak gain(dBi).	V-peak gain(dBi).	Peak gain(dBi)	Average gain(dBi)	Efficiency(%)
2400 MHz	-2.21	1.24	1.24	-2.44	57.07%
2450 MHz	-2.82	1.55	1.55	-2.64	54.48%
2500 MHz	-2.94	1.14	1.14	-2.79	52.65%
5150 MHz	-2.71	2.60	2.60	-2.10	61.71%
5250 MHz	-2.91	2.85	2.95	-2.12	61.37%
5350 MHz	-2.94	2.69	2.69	-2.06	63.61%
5470 MHz	-2.67	2.63	2.63	-2.09	64.68%
5600 MHz	-2.20	2.61	2.61	-2.02	62.74%
5725 MHz	-2.45	0.60	0.60	-2.23	59.89%
5785 MHz	-2.89	-0.24	0.24	-2.14	61.05%
5850 MHz	-2.91	0.28	0.28	-2.09	61.80%

4.3 Antenna 3D Pattern

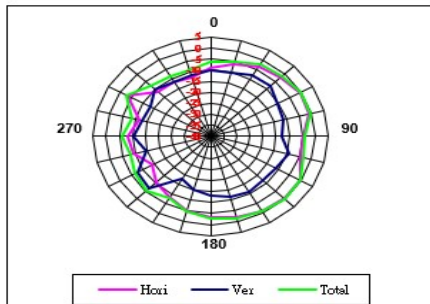




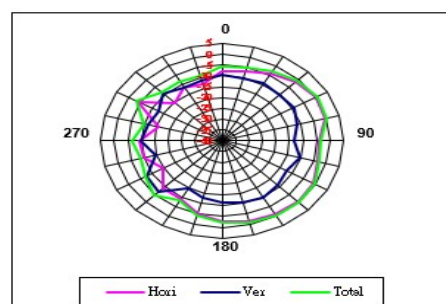
4.4 Antenna 2D Pattern



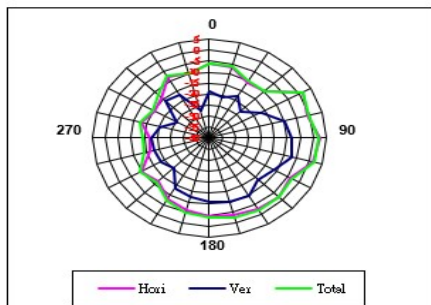
Frequency (MHz)	2400
Horizontal peak gain (dBi)	-2.61
Vertical peak gain (dBi)	1.24



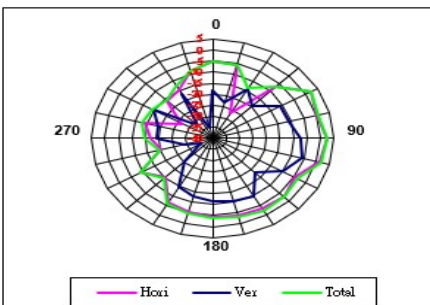
Frequency (MHz)	2450
Horizontal peak gain (dBi)	-2.82
Vertical peak gain (dBi)	1.55



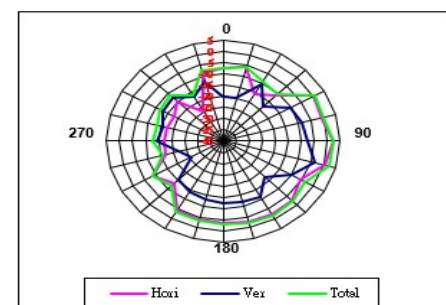
Frequency (MHz)	2500
Horizontal peak gain (dBi)	-2.94
Vertical peak gain (dBi)	1.14



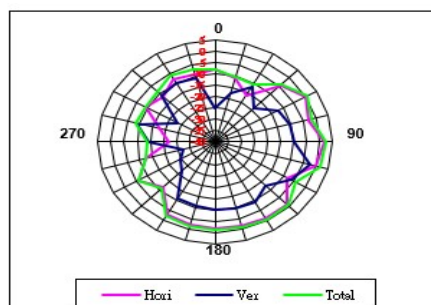
Frequency (MHz)	5150
Horizontal peak gain (dBi)	-2.71
Vertical peak gain (dBi)	2.60



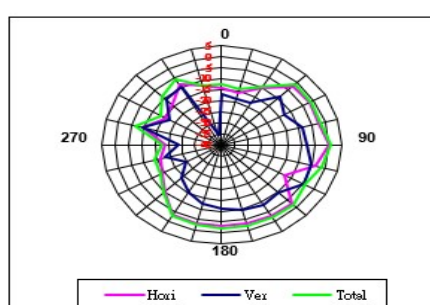
Frequency (MHz)	5250
Horizontal peak gain (dBi)	-2.91
Vertical peak gain (dBi)	2.85



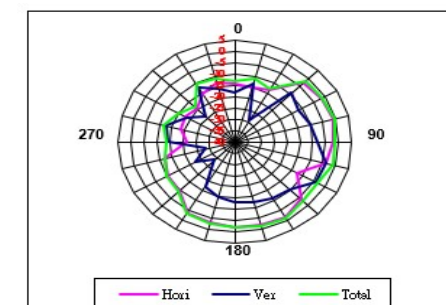
Frequency (MHz)	5350
Horizontal peak gain (dBi)	-2.94
Vertical peak gain (dBi)	2.69



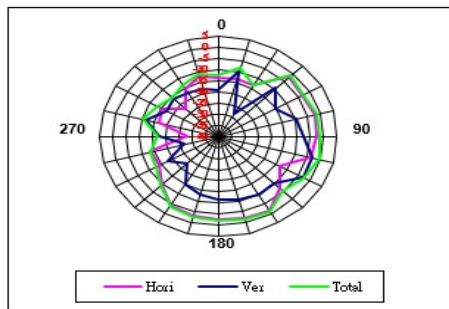
Frequency (MHz)	5470
Horizontal peak gain (dBi)	-2.67
Vertical peak gain (dBi)	2.63



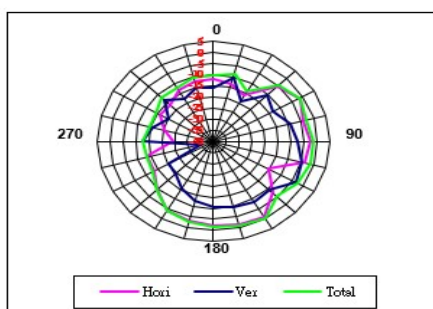
Frequency (MHz)	5600
Horizontal peak gain (dBi)	-2.20
Vertical peak gain (dBi)	2.61



Frequency (MHz)	5725
Horizontal peak gain (dBi)	-2.45
Vertical peak gain (dBi)	0.60



Frequency (MHz)	5785
Horizontal peak gain (dBi)	-2.89
Vertical peak gain (dBi)	-0.24



Frequency (MHz)	5850
Horizontal peak gain (dBi)	-2.91
Vertical peak gain (dBi)	0.28