

APPROVAL SHEET

Customer Name: *Compal Electronics, Inc.*

Date: 2021/01/28

Doc. Version: AO

OEM P/N	
HLN P/N	260-25094
Description	PiFA Antenna
Version	

Provided By Hong-Lin Technology	Reviewed By Hong-Lin Technology	Approved By Customer

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1.1 Antenna

1.1.1 Location: Base

1.1.2 Cable Length: L=300mm;

Connector: I-PEX MHF 4L Plug for OD 1.13mm (20565-001R-13)

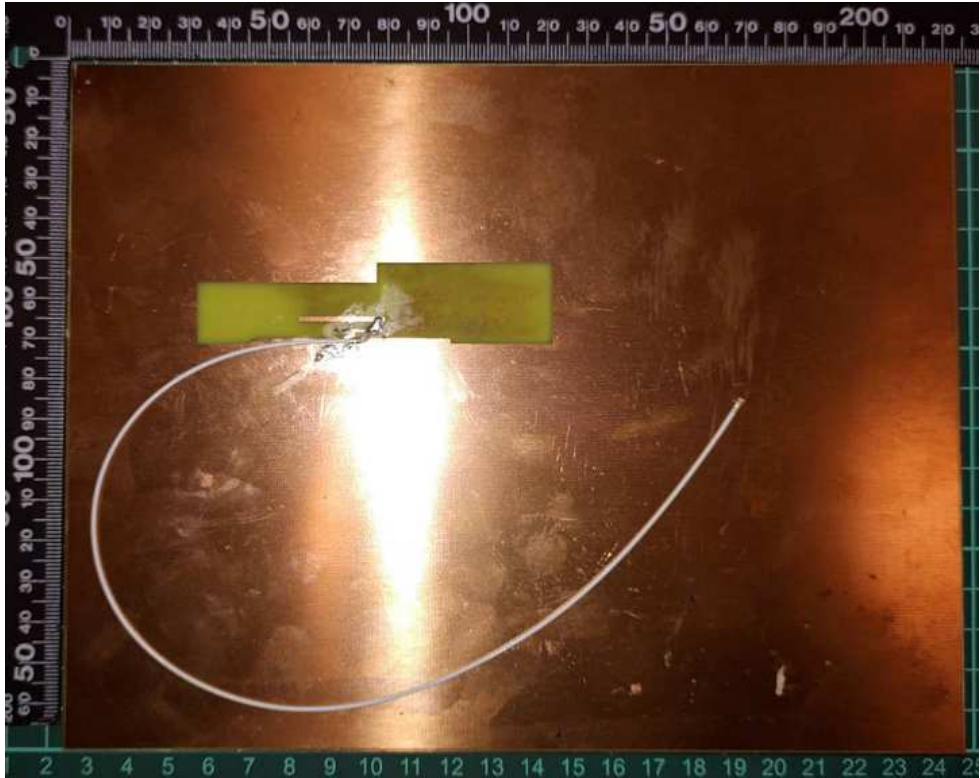
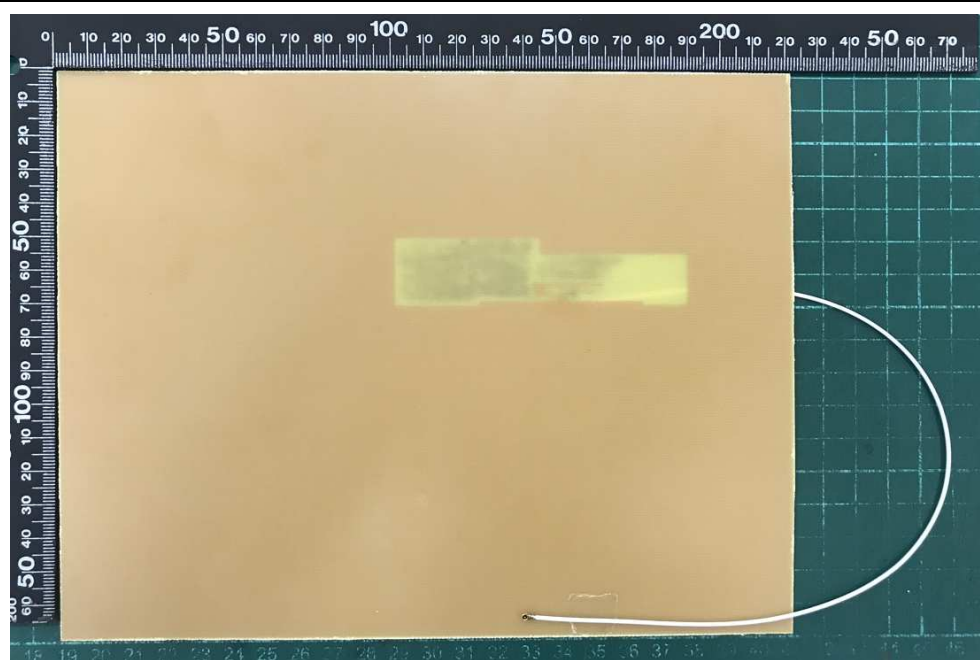
	WiFi PIFA
Antenna Type	PIFA
Cable	1.13 LLS WiFi White Cable
Photo Front	

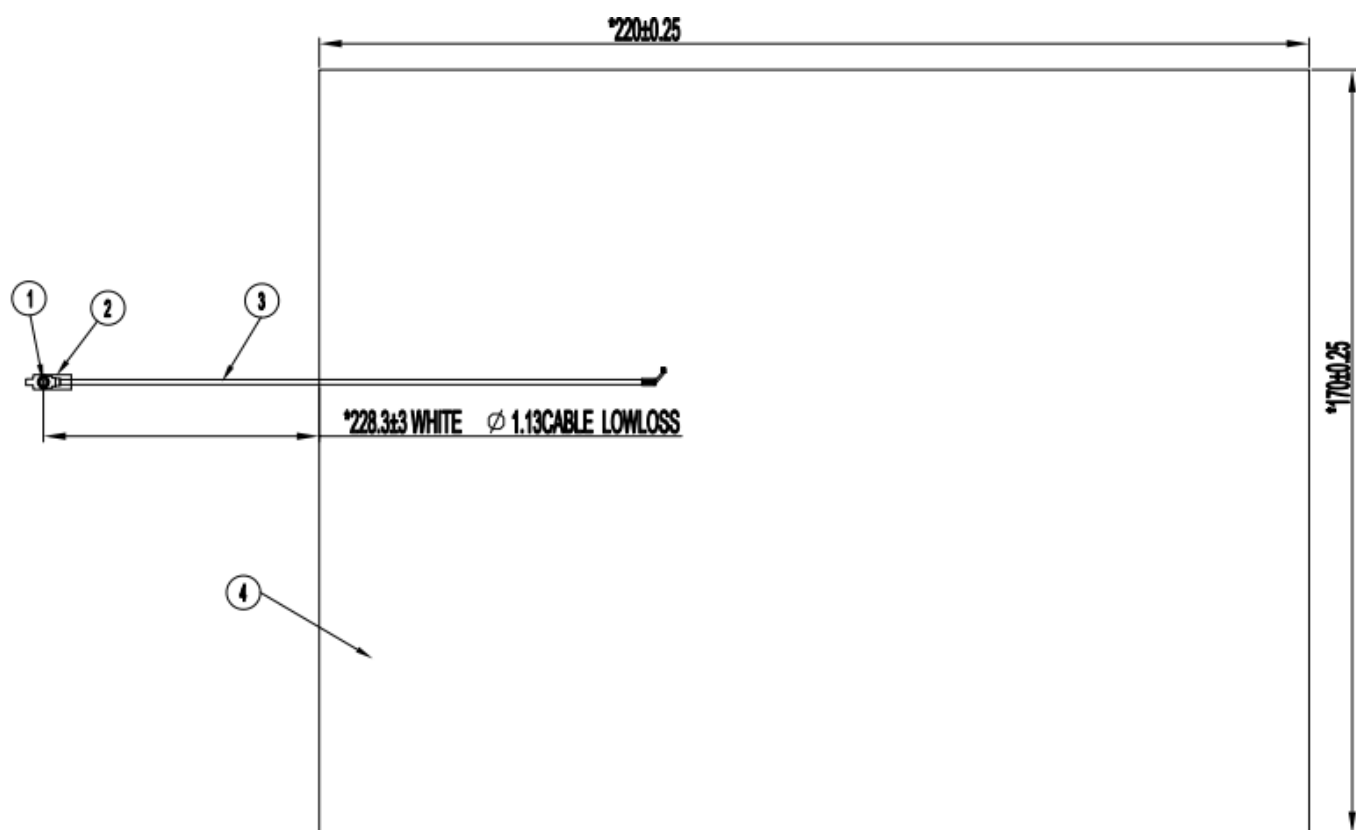
Photo back



2.Revision History

Date	Version	Revision History
2021/01/25	A0	New Release

3.1 Mechanical Specifications

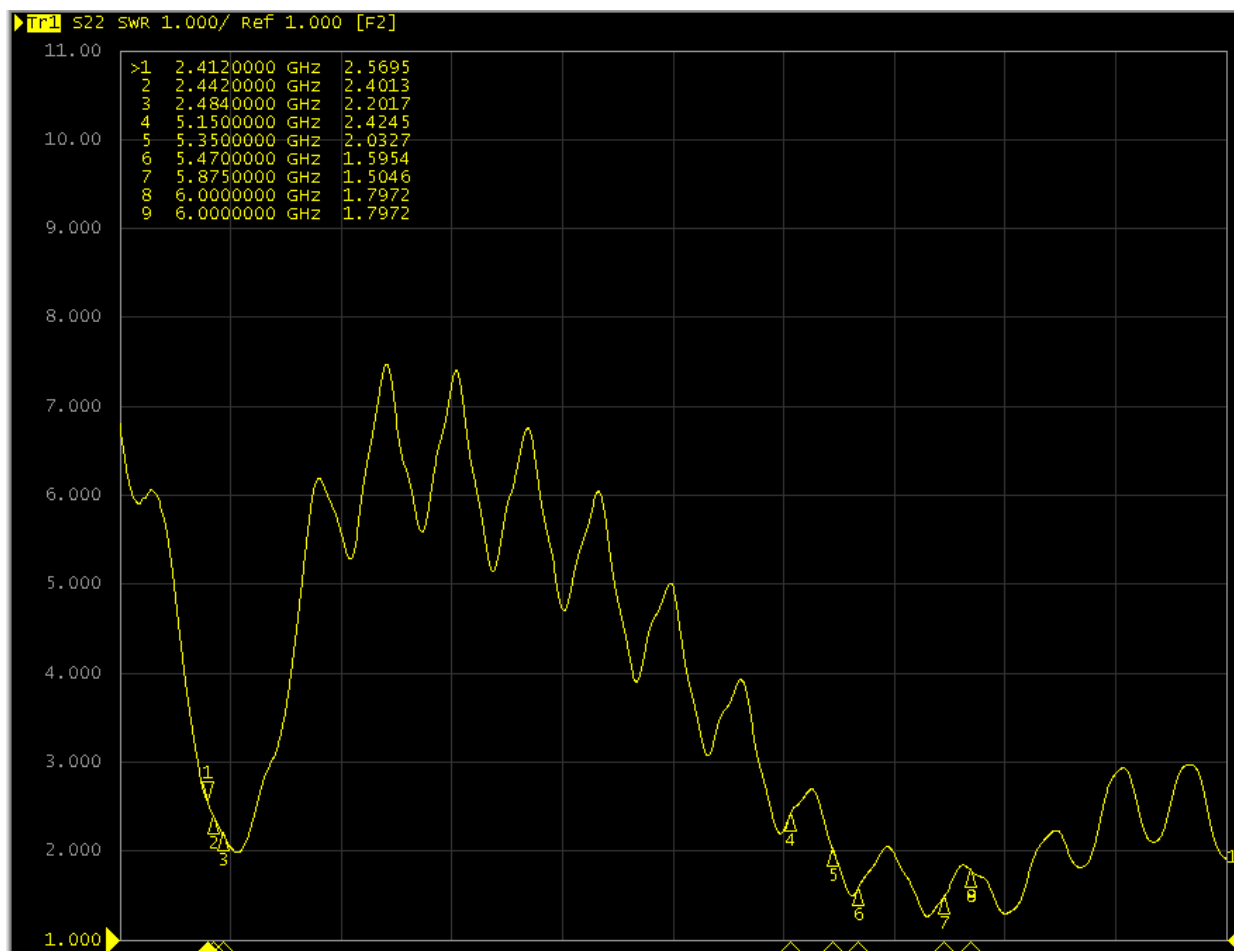


3.2 Antenna Material List

4.		Pifa2.4_5G_ANT_PCB W170*L220 T=0.8MM (金安國紀)	1	
3.		Pifa2.4_5G_ANT_Cable ϕ 1.13 LOW LOSS (White) (FEP)	1	神宇
2.		ϕ 1.5 L=20mm PE軟套管(熱膠套管): 透明	1	
1.		MHF 4L Plug for OD 1.13mm (20565-001R-13)	1	I-PEX
NO.	SORT	SPECIFICATION	Q'TY	VENDOR

4 .Antenna Performance

4.1 VSWR



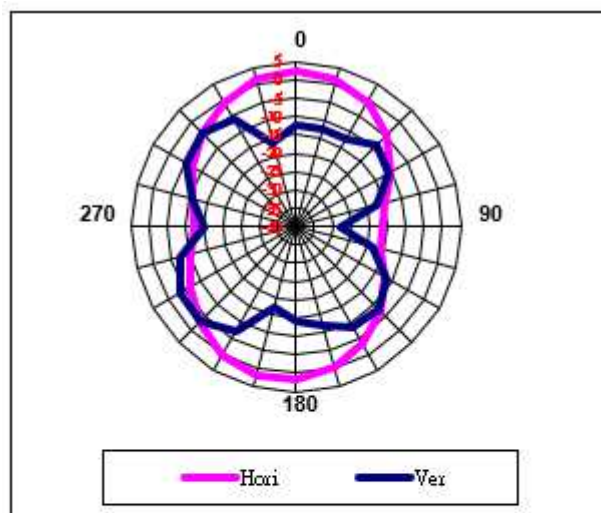
4.3 Antenna Pattern

Antenna Peak Gain Table:

Frequency (MHz)	Tx1 antenna		
	Horizontal	Vertical	Cable Loss
	(dBi)	(dBi)	
2412	2.55	-3.08	0.74
2422	2.72	-2.96	0.74
2437	3.01	-2.75	0.74
2442	3.17	-2.53	0.74
2452	3.32	-2.49	0.75
2484	3.53	-2.11	0.76
5150	-3.10	2.32	1.13
5180	-3.24	2.51	1.14
5250	-2.56	3.06	1.16
5320	-2.08	3.03	1.17
5350	-2.07	3.07	1.18
5470	-1.22	4.81	1.20
5500	-1.18	4.53	1.26
5725	0.57	4.09	1.27
5785	0.73	4.20	1.27
5805	0.59	4.15	1.28
5850	0.22	4.07	1.29

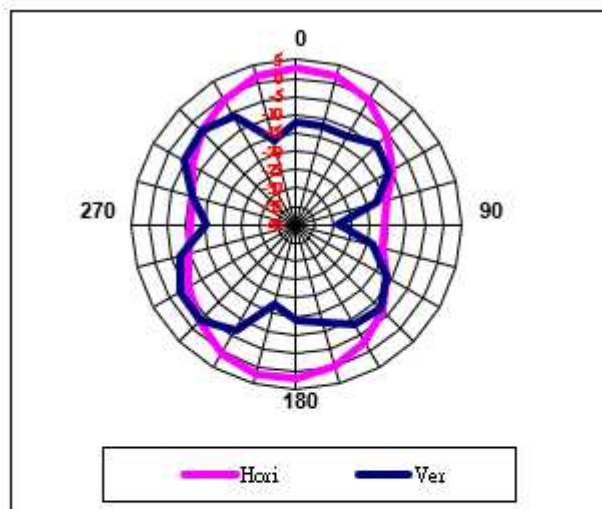
Section 3. Radiation characteristics of antennae Loaded in Host Platform

Ant : 2412 MHz



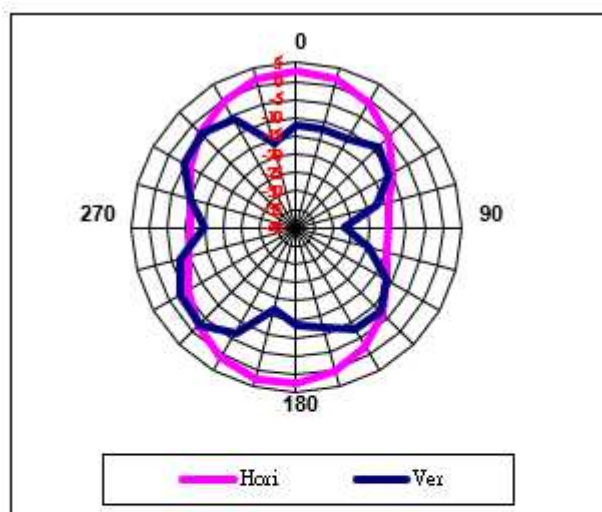
Frequency (MHz)	2412
Horizontal peak gain (dBi)	2.55
Vertical peak gain (dBi)	-3.08

Ant : 2422 MHz



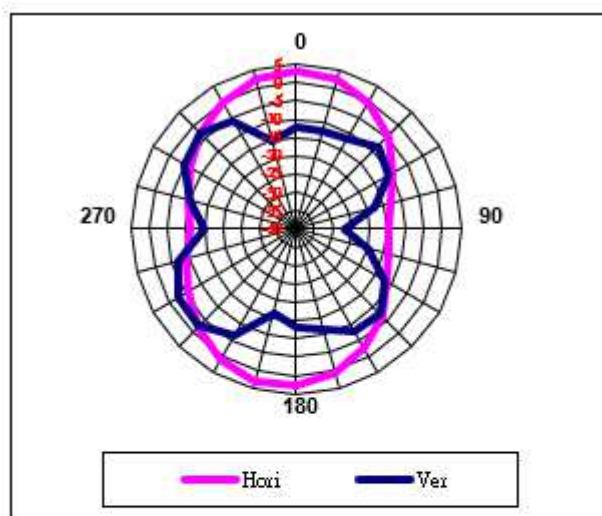
Frequency (MHz)	2422
Horizontal peak gain (dBi)	2.72
Vertical peak gain (dBi)	-2.96

Ant :2437 MHz



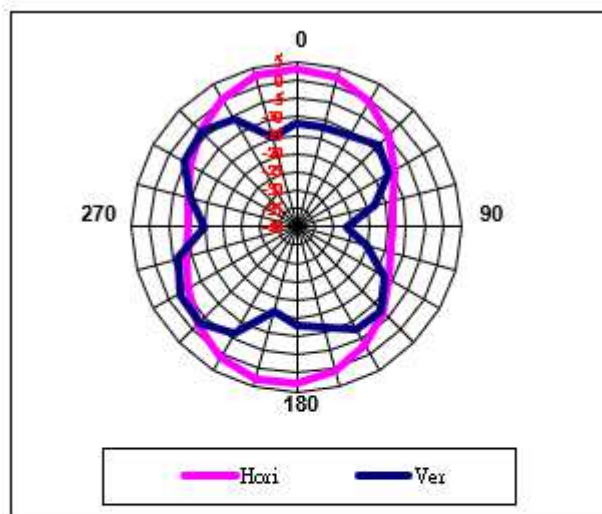
Frequency (MHz)	2437
Horizontal peak gain (dBi)	3.01
Vertical peak gain (dBi)	-2.75

Ant :2442 MHz



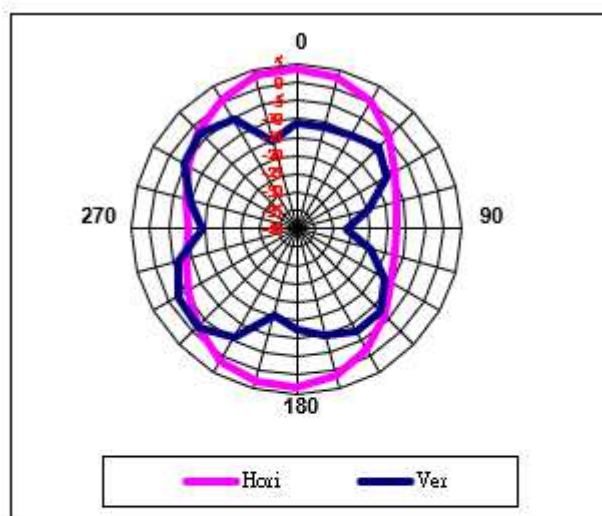
Frequency (MHz)	2442
Horizontal peak gain (dBi)	3.17
Vertical peak gain (dBi)	-2.53

Ant : 2452MHz

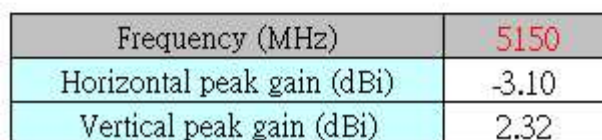


Frequency (MHz)	2452
Horizontal peak gain (dBi)	3.32
Vertical peak gain (dBi)	-2.49

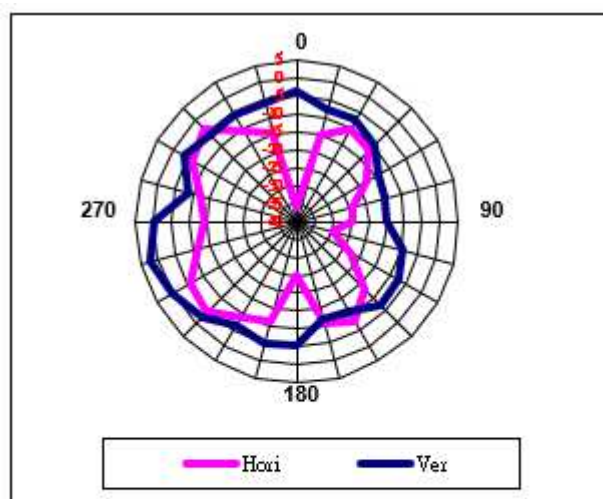
Ant : 2484 MHz



Frequency (MHz)	2484
Horizontal peak gain (dBi)	3.53
Vertical peak gain (dBi)	-2.11

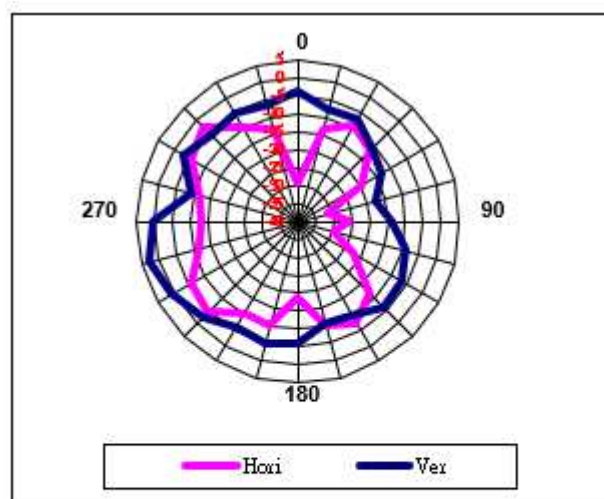


Ant : 5180 MHz



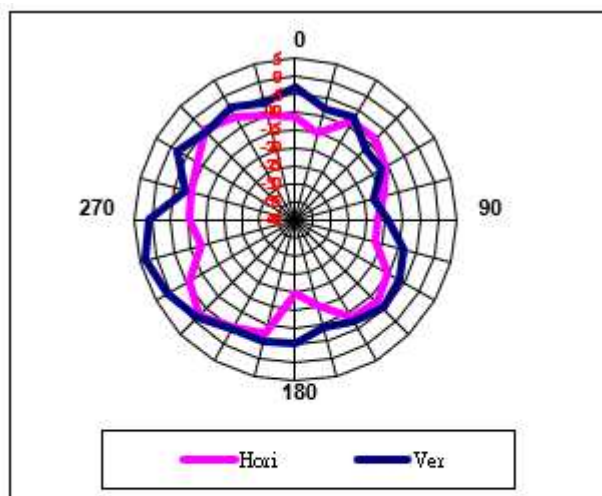
Frequency (MHz)	5180
Horizontal peak gain (dBi)	-3.24
Vertical peak gain (dBi)	2.51

Ant : 5250 MHz



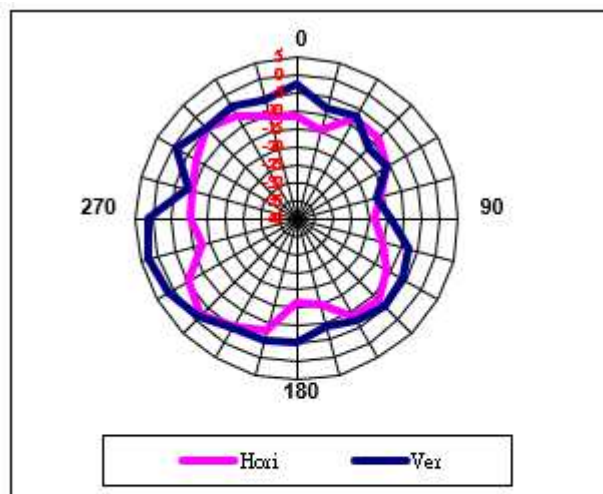
Frequency (MHz)	5250
Horizontal peak gain (dBi)	-2.56
Vertical peak gain (dBi)	3.06

Ant : 5320 MHz



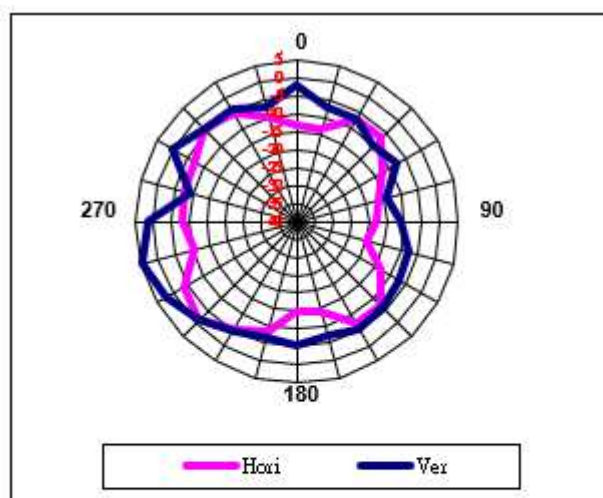
Frequency (MHz)	5320
Horizontal peak gain (dBi)	-2.08
Vertical peak gain (dBi)	3.03

Ant : 5350 MHz



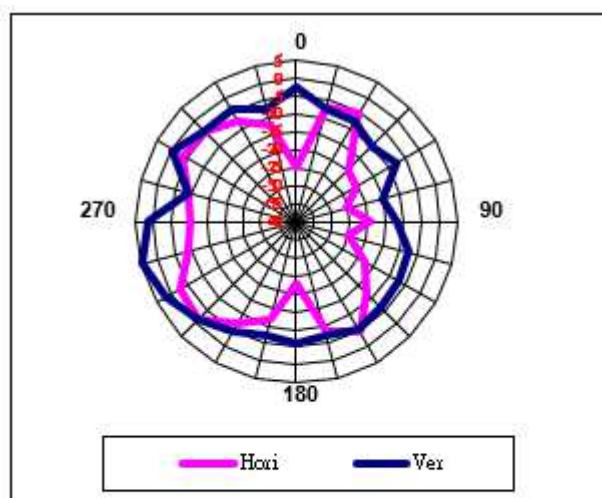
Frequency (MHz)	5350
Horizontal peak gain (dBi)	-2.07
Vertical peak gain (dBi)	3.07

Ant : 5470 MHz



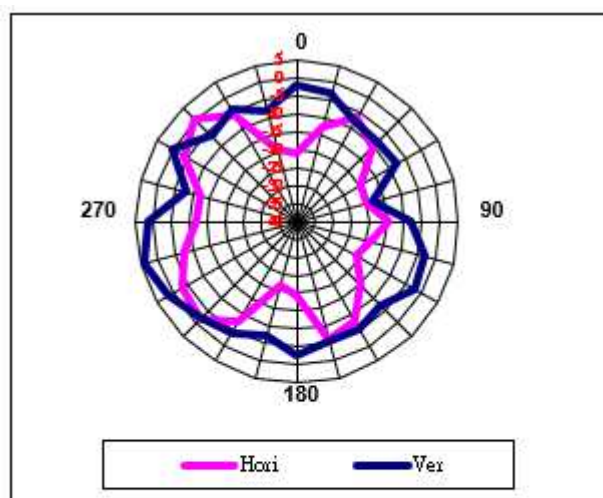
Frequency (MHz)	5470
Horizontal peak gain (dBi)	-1.22
Vertical peak gain (dBi)	4.81

Ant : 5500 MHz



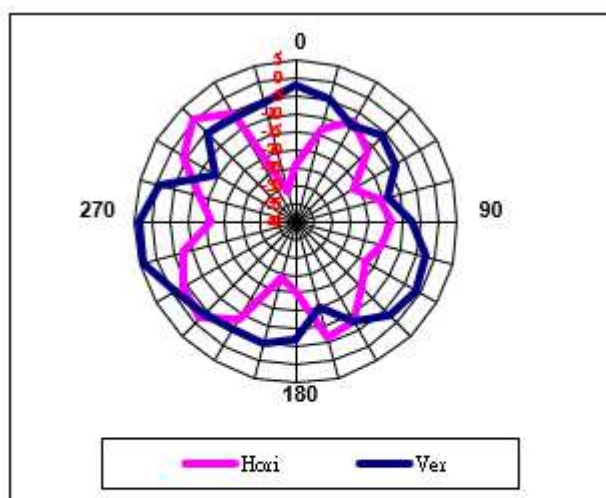
Frequency (MHz)	5500
Horizontal peak gain (dBi)	-1.18
Vertical peak gain (dBi)	4.53

Ant : 5725 MHz



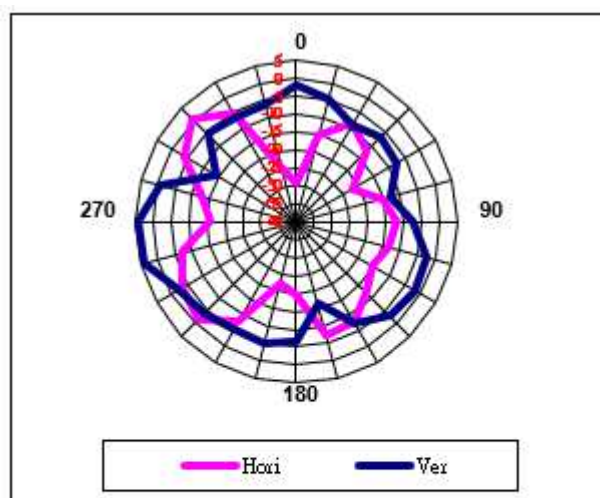
Frequency (MHz)	5725
Horizontal peak gain (dBi)	0.57
Vertical peak gain (dBi)	4.09

Ant : 5785 MHz



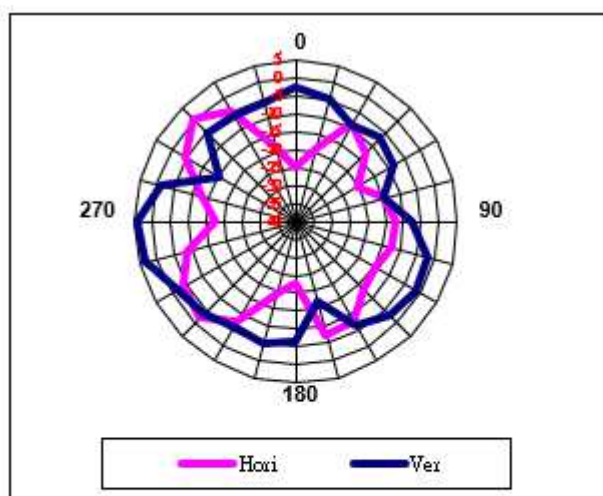
Frequency (MHz)	5785
Horizontal peak gain (dBi)	0.73
Vertical peak gain (dBi)	4.20

Ant : 5805 MHz



Frequency (MHz)	5805
Horizontal peak gain (dBi)	0.59
Vertical peak gain (dBi)	4.15

Ant : 5850 MHz



Frequency (MHz)	5850
Horizontal peak gain (dBi)	0.22
Vertical peak gain (dBi)	4.07