

Redstart antenna test report

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Date:02/04/11

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I. Purpose

To verify performance of Redstart antenna .

II. Antenna type.

1. Main : PIFA antenna with HRS Cable ϕ 1.13 * 140 mm
2. Aux : PIFA antenna with HRS Cable ϕ 1.13 * 180 mm

III.Spec

III.1 Average Gain and Peak Gain (X-Y Plane)

	Average gain			Peak Gain		
	2.4GHz	2.45Ghz	2.5GHz	2.4GHz	2.45Ghz	2.5GHz
Main	≥ -4	≥ -4	≥ -4	< 3	< 3	< 3
Aux	≥ -5	≥ -5	≥ -5			

III.2

VSWR : Main 2.4GHz~2.5GHz ≤ 2

Aux 2.4GHz~2.5GHz ≤ 2

IV. Antenna position



V. Test result

V.1 VSWR

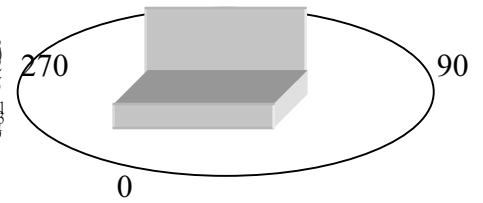
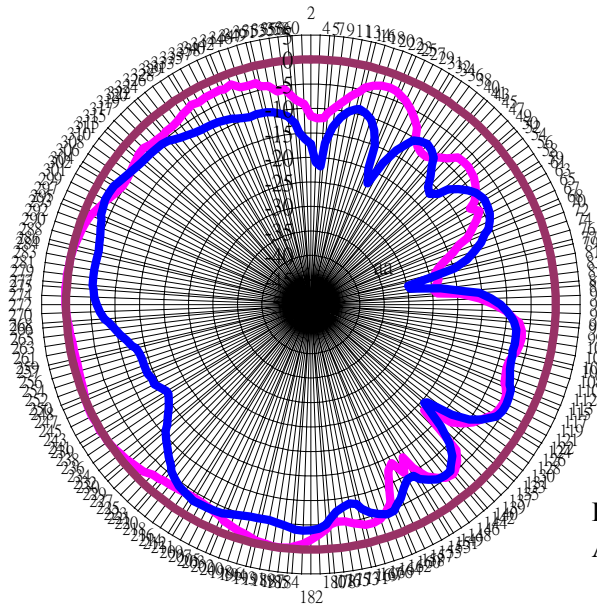
13"LCD

	VSWR		
	2.4GHz	2.45GHz	2.5GHz
Main	1.84	1.29	1.21

V.2 Gain and Pattern X-Y Plane

	Gain			
	Frequency	2.4GHz	2.45GHz	2.5GHz
Main	Peak Gain	1.13	0.38	0.77
	Average Gain	-2.88	-3.26	-3.42

13" LG chart @2.45GHz



Peak gain 0.38 dBi
 Average gain -3.26 dBi

X-Z Plane

	Gain			
	Frequency	2.4GHz	2.45GHz	2.5GHz
Main	Peak Gain	0.61	0.79	0.11
	Average Gain	-3.86	-3.5	-4.1

chart @2.45GHz

