Test Report of WLAN Antenna Cable Assembly

For Wistron Canary Project

HannStar Electronics Corporation

Jimmy Lin
R & D Center/ Advanced Research Division
Tel: +886-2-2277-9377 Ext. 292 Fax: +886-2-2994-4240
E-mail:leo_chong@elc.hannstar.com.tw
No. 5, Lane 211, Hwa Chen Rd., Hsin Chuang Taipei Hsian, Taiwan, R.O.C.

1. General

This document is the test result for PIFA . All test result are on the full set.

2. Test condition

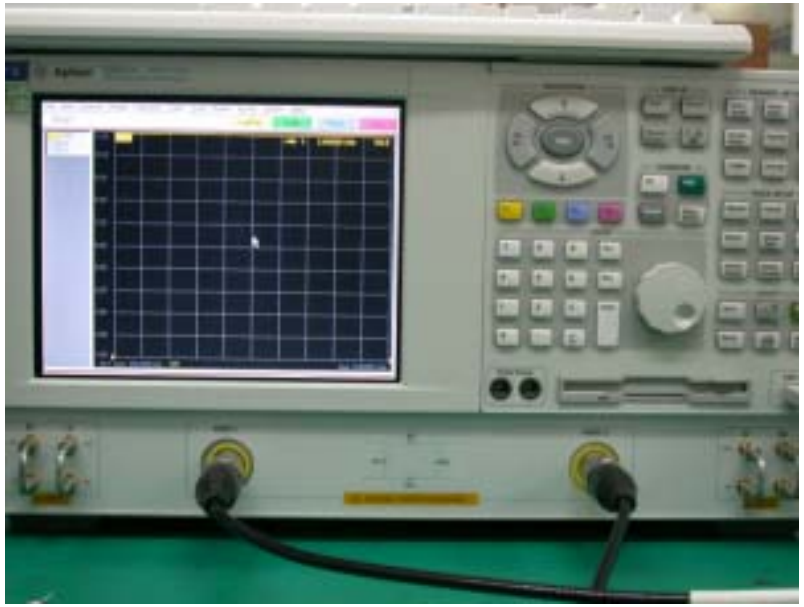
(1) Temperature : 15 to 35 ° C

(2) Humidity : : 25% to 85%

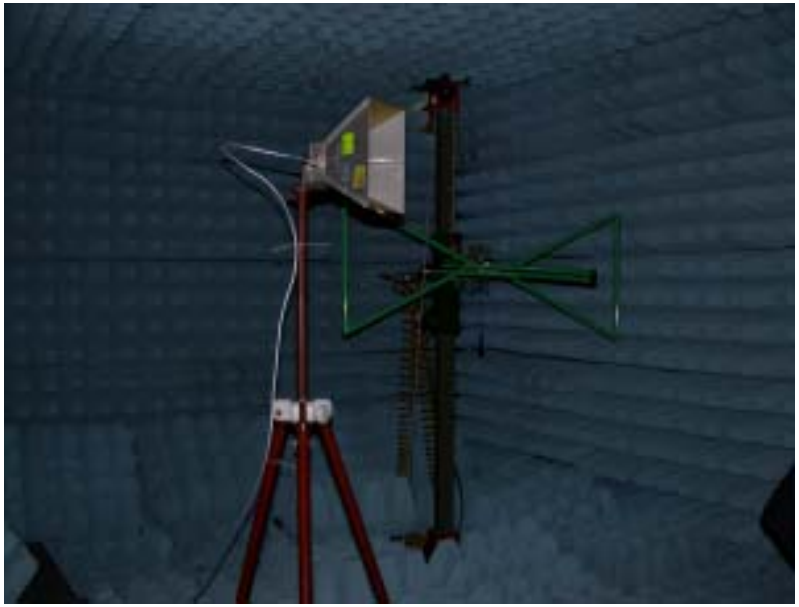
(3) Atmospheric : 86kPa to 106kPa

3. Instrument:

(1). Network Analyzer: Agilent E8357A



(2) Chamber



4. Describe

4-1 Photo:

B/T Antenna

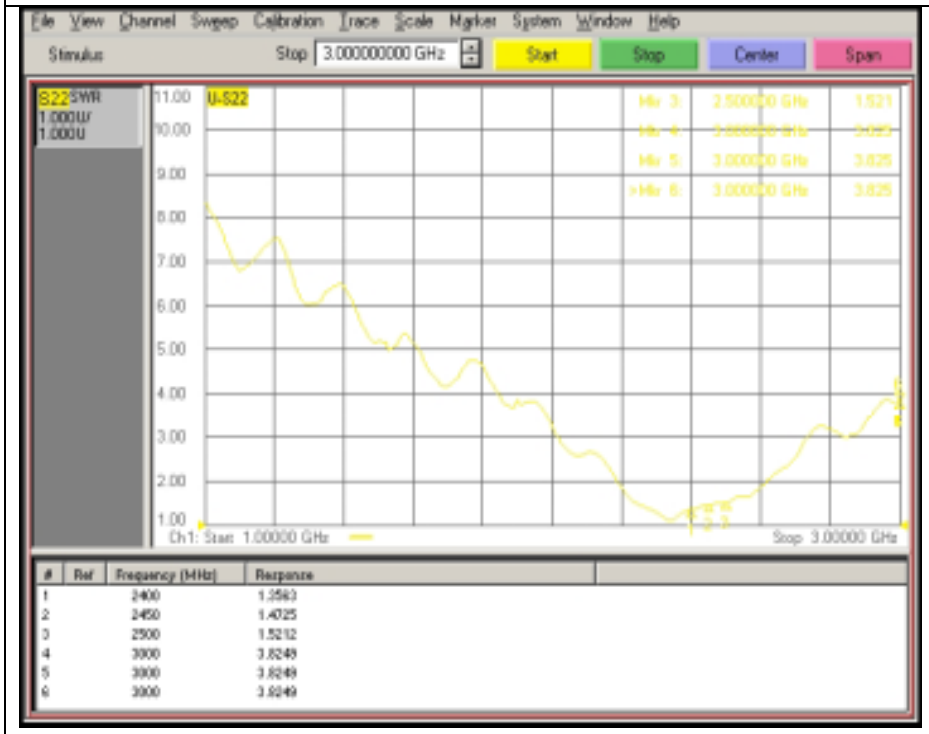
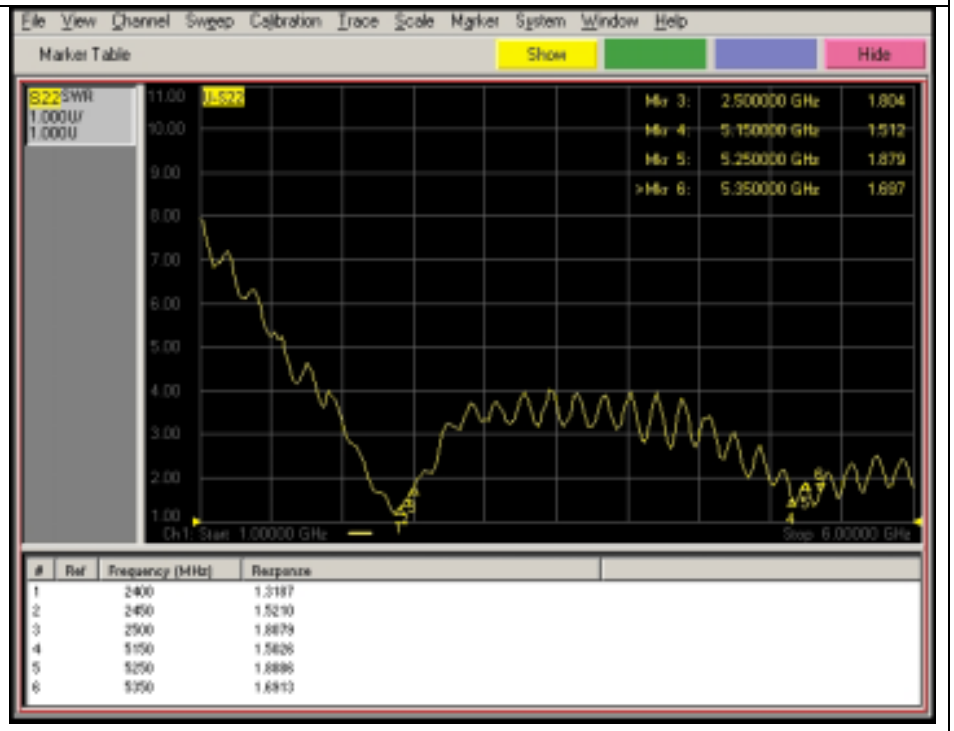

4-1 Photo:

Left Antenna


4-2 Test result:

(a) S-parameter _SWR-Right

(b) S-parameter _SWR-Left

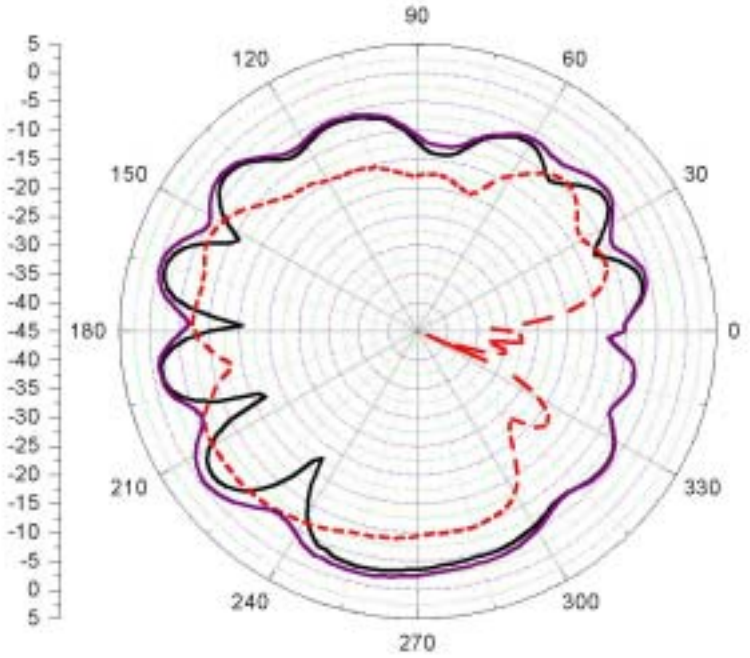
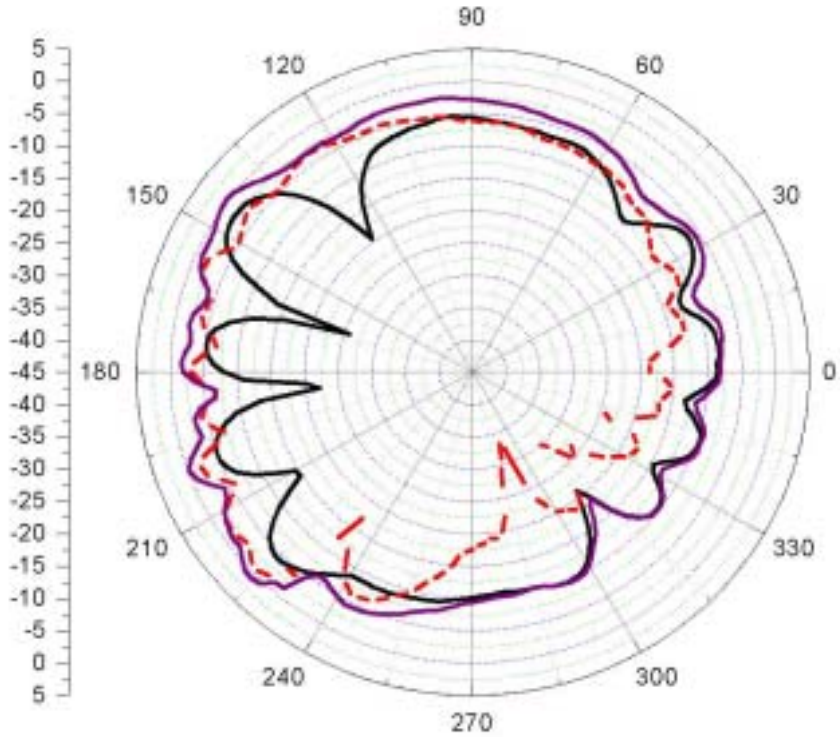
B/T Antenna	Left Antenna
	

Frequency		Result
2.4	GHz	1.3563
2.45	GHz	1.4725
2.50	GHz	1.5212

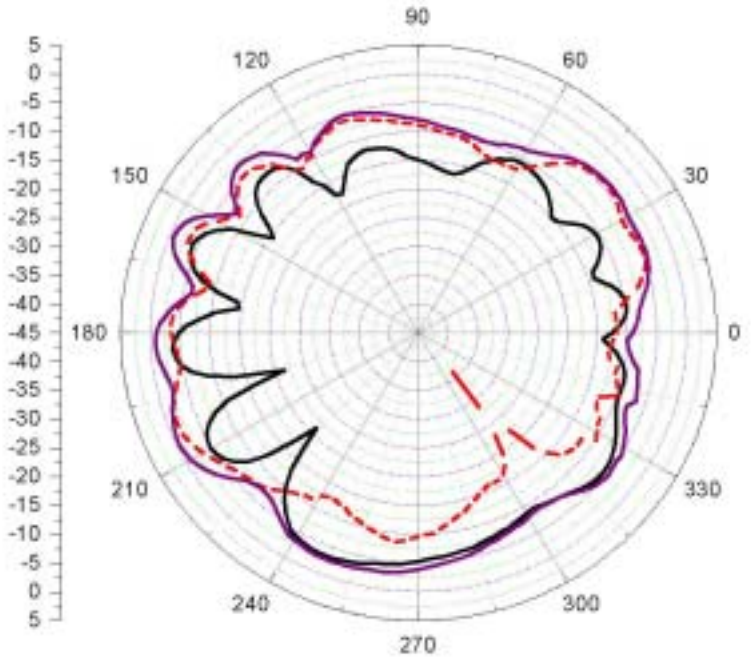
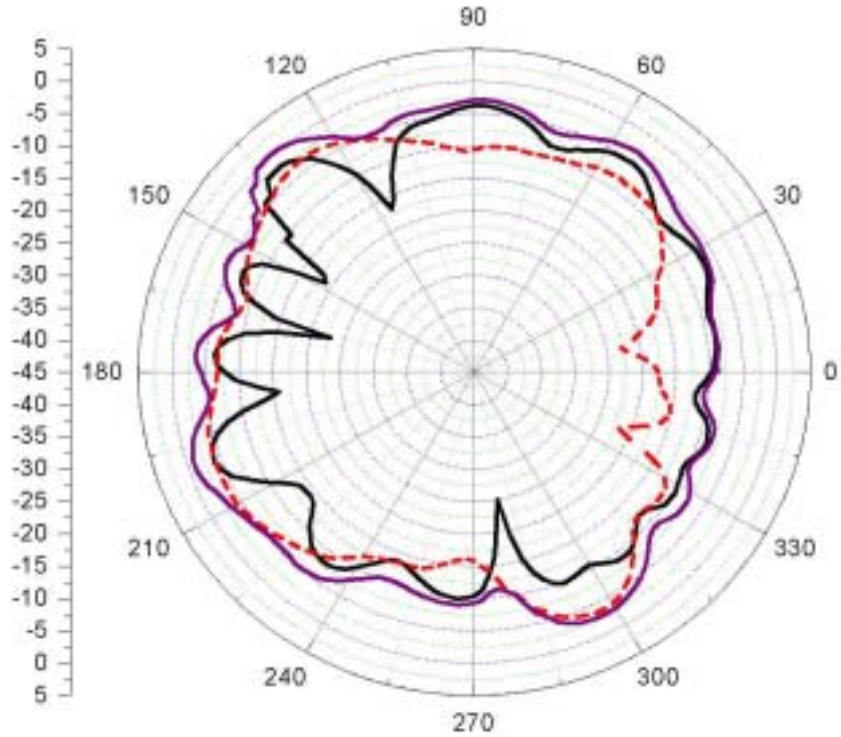
Frequency		Result
2.4	GHz	1.3187
2.45	GHz	1.5210
2.50	GHz	1.8079
5.15	GHz	1.5026
5.25	GHz	1.8886
5.35	GHz	1.6913

(b) Radiation Pattern

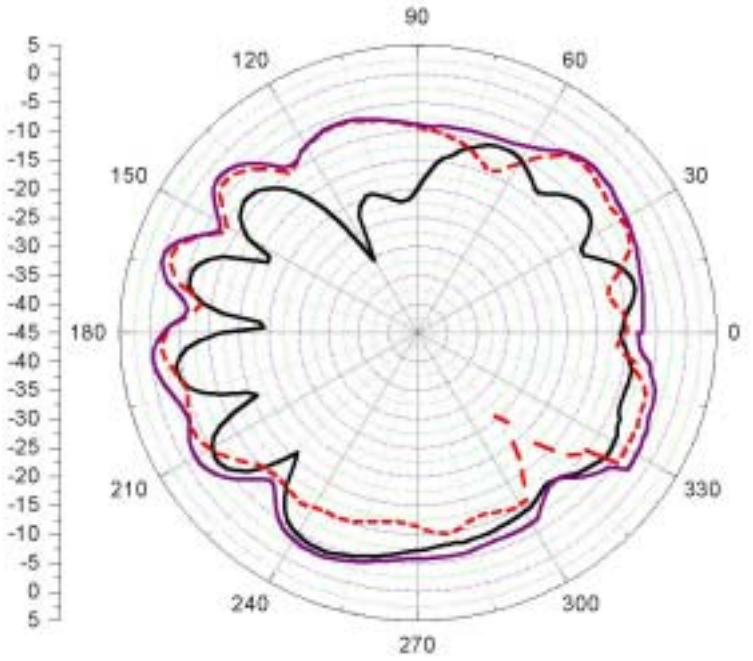
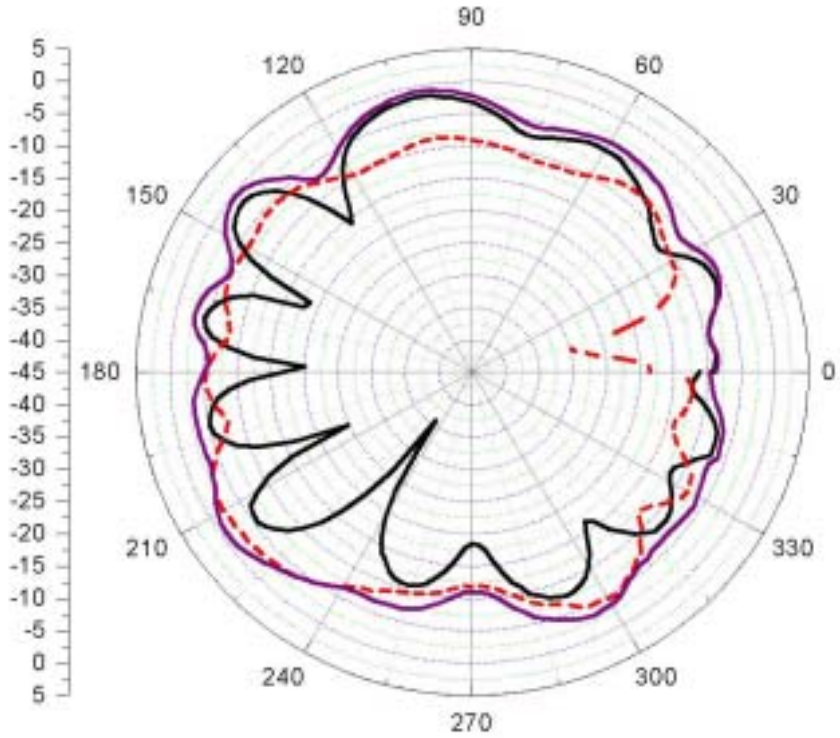
2.4 GHz ——— H-Plane ..... E-Plane ..... H+V-Plane

B/T antenna	Left antenna
	

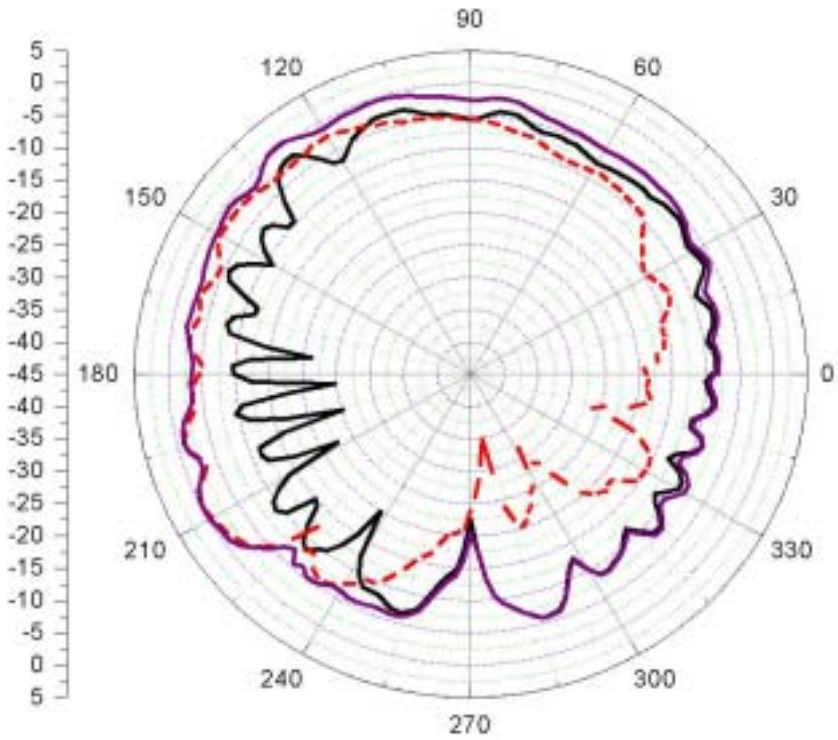
2.45 GHz ——— H-Plane ..... E-Plane ..... H+V-Plane

B/T antenna	Left antenna
	

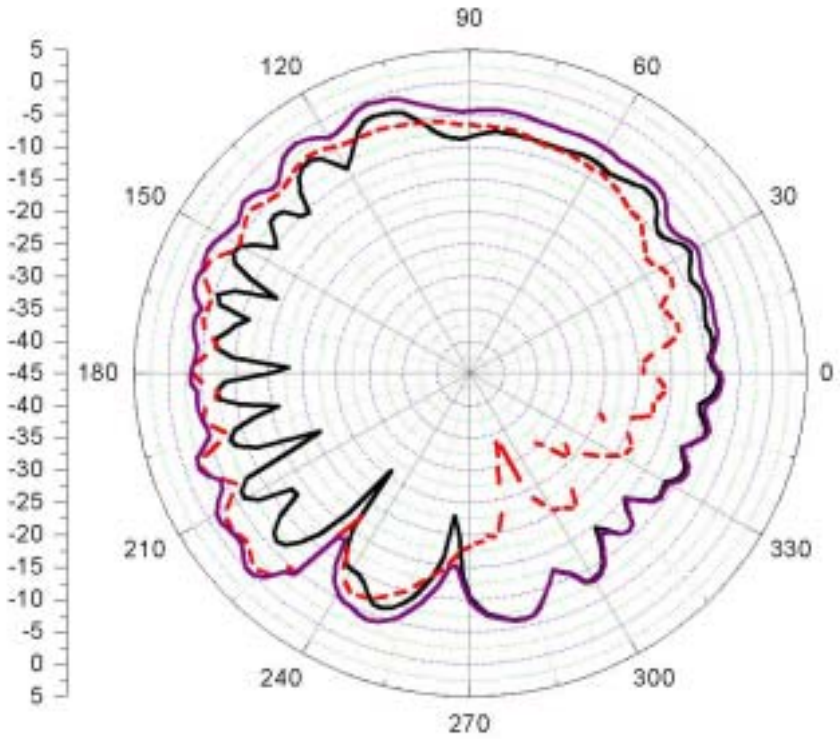
2.5 GHz ——— H-Plane ..... E-Plane ..... H+V-Plane

B/T antenna	Left antenna
	

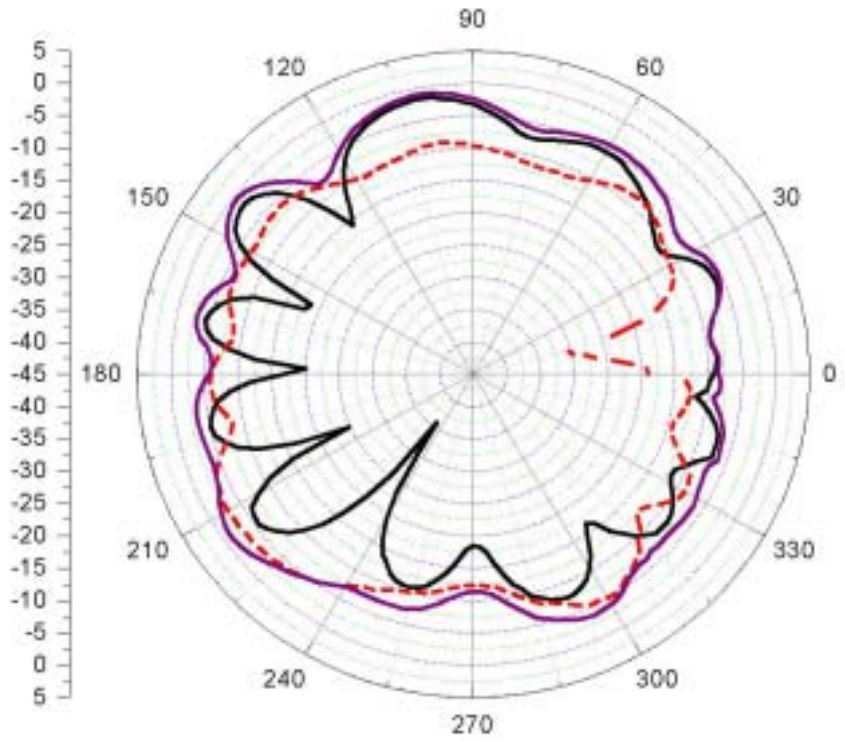
5.15 GHz ——— H-Plane ..... E-Plane ..... H+V-Plane

	Left antenna
	

5.25GHz ——— H-Plane ..... E-Plane ..... H+V-Plane

	Left antenna
	

5.35 GHz ——— H-Plane ..... E-Plane ..... H+V-Plane

	Left antenna
	

Test result: **B/T antenna**

Result / Frequency	Peak Gain (dBi)	Average Gain (dBi)
2.4 GHz	-0.33324	-4.21538
2.45 GHz	-0.37504	-4.38638
2.50 GHz	-0.26771	-4.50537

Test result: **Left antenna**

Result / Frequency	Peak Gain (dBi)	Average Gain (dBi)
2.4 GHz	0.909921	-4.07317
2.45 GHz	0.234741	-4.62415
2.50 GHz	-0.49551	-4.15101
5.15 GHz	0.598915	-3.76601
5.25 GHz	-0.08371	-4.41561
5.35 GHz	-0.63604	-4.38051