



Specifications Sheet

Object	External Dipole Antenna	Page	1 of 7
Customer		Date	August 19, 2005
System	WLAN/ Bluetooth/ Zigbee	Rev.	B
Model Name	W5E-WO-03	Written by	

Electrical Specifications

Frequency Range (MHz)	2400 ~ 2483.5
Band Width (MHz)	83.5
V.S.W.R (Min)	1.9 : 1
Gain (Max)	3 ± 0.5 (dBi)
Input Impedance	50 (Ω)
Polarization	Linear

Mechanical Specifications

Antenna Size (Length x Diameter)	102.8 × 11 mm
Weight	12.5 ± 2 g
Radiator Material	Copper
Operation Temperature	- 20 ~ 70 ($^{\circ}\text{C}$)
Operation Humidity	10 ~ 90 (%)

Option	
Remarks	

WINiZEN Co., Ltd.

Fig 1. Return Loss (Agilent E8357A 300KHz~6GHz PNA Series Network Analyzer)

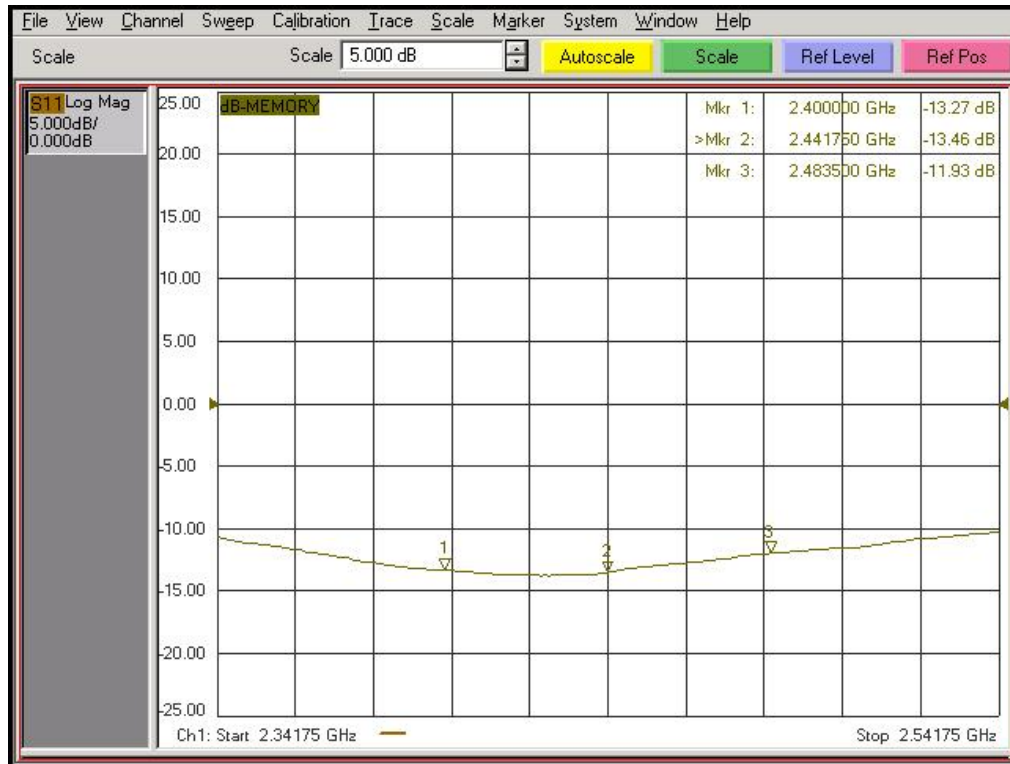


Fig 2. V.S.W.R (Agilent E8357A 300KHz~6GHz PNA Series Network Analyzer)

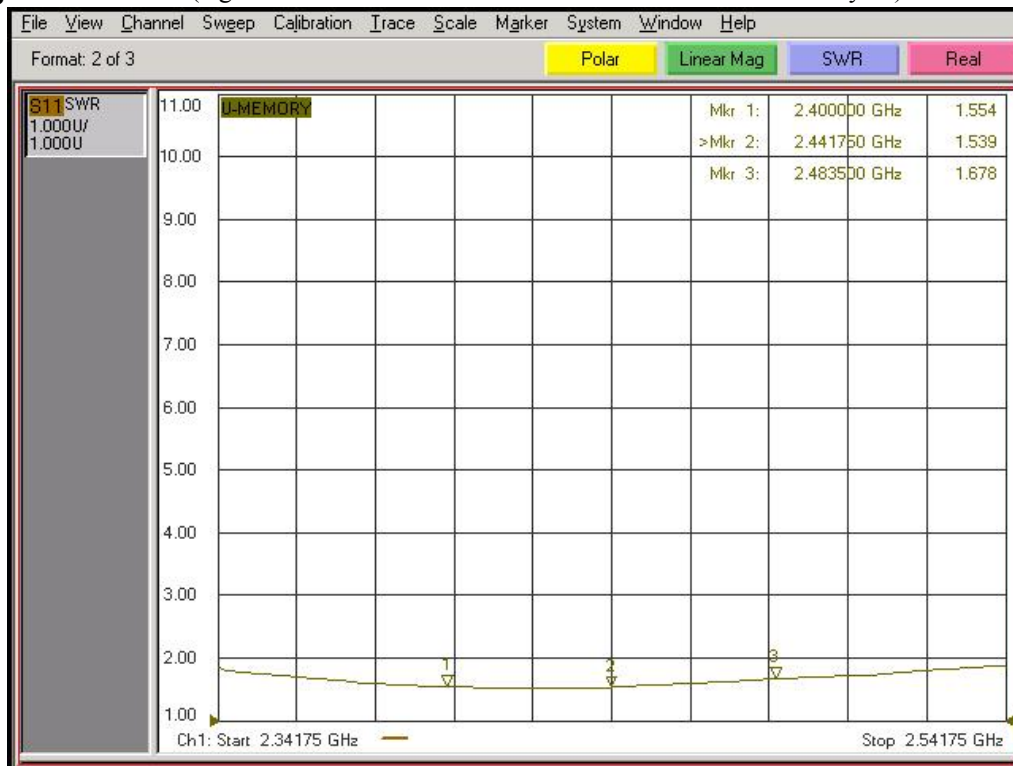


Fig 3. Smith Chart (Agilent E8357A 300KHz~6GHz PNA Series Network Analyzer)

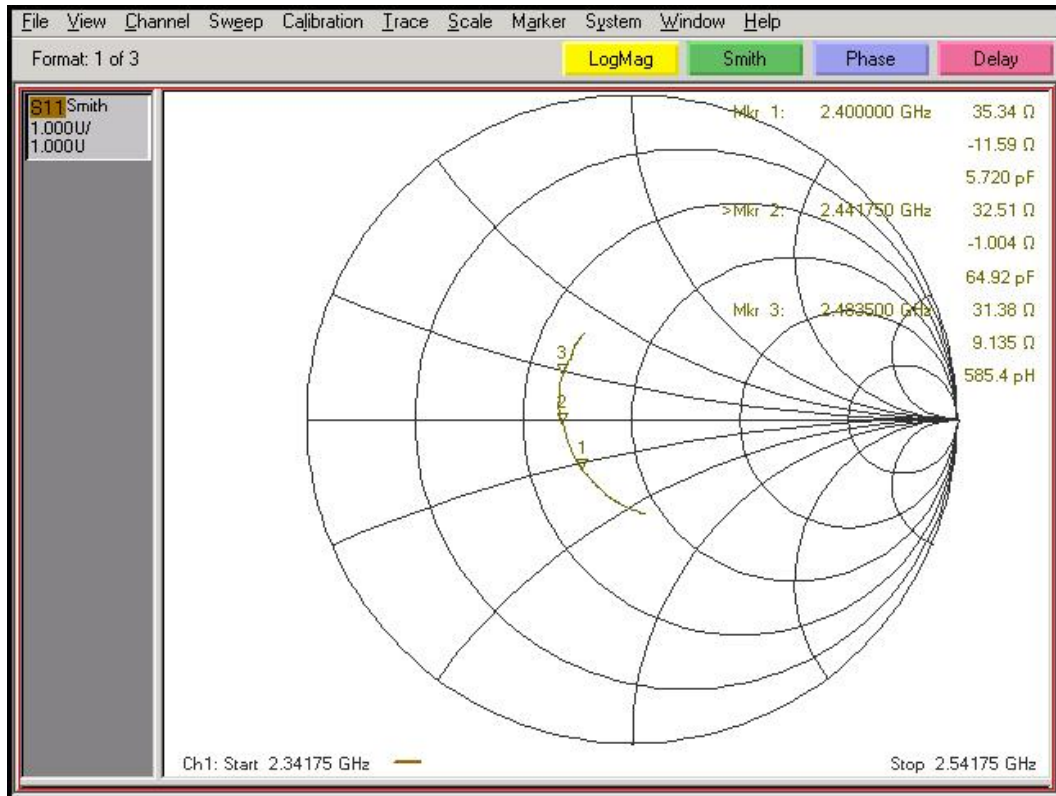


Fig 4. Measurement Configuration

(Hewlett Packard 8722ES 50 MHz ~ 40 GHz S-Parameter Network Analyzer)

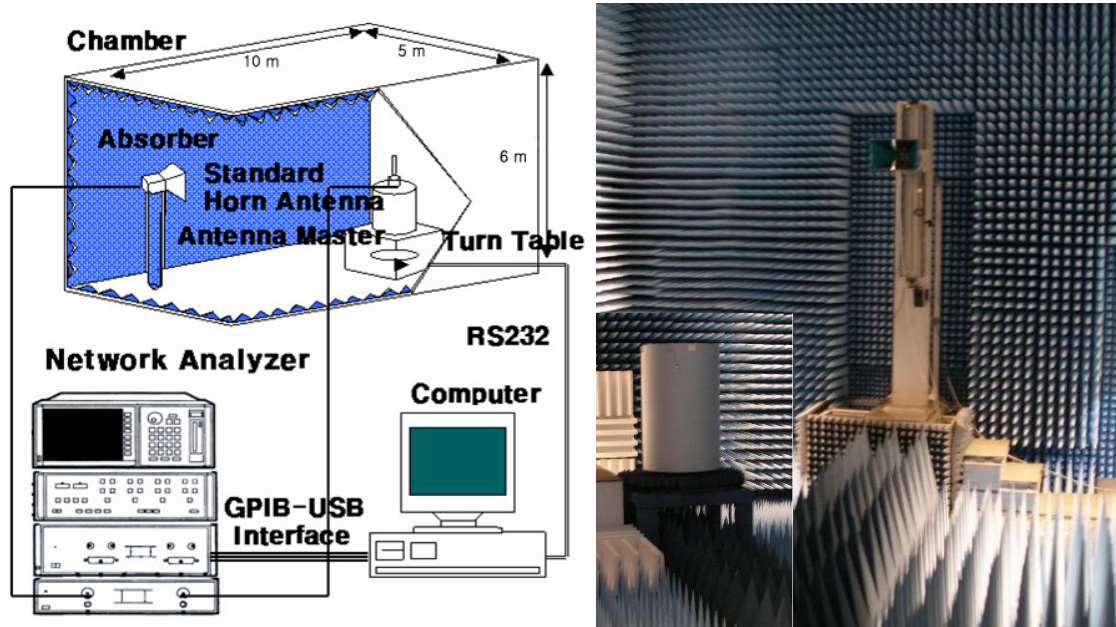


Fig 5. Axis Definitions (Antenna Center)

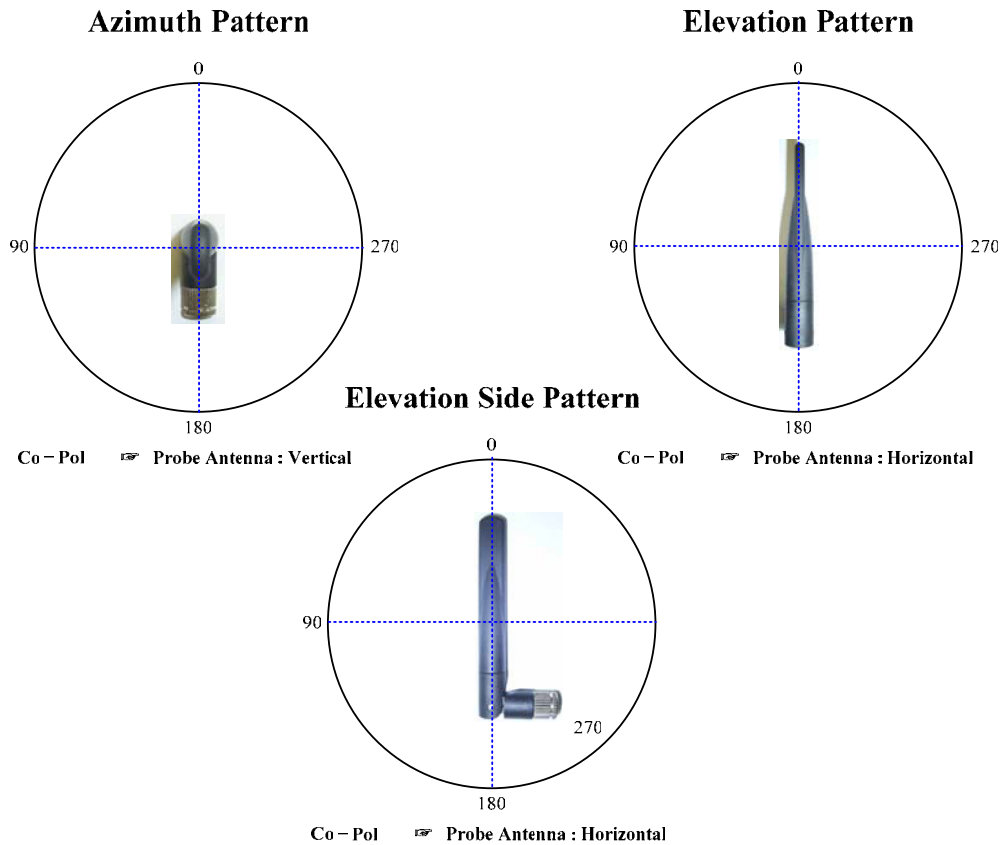
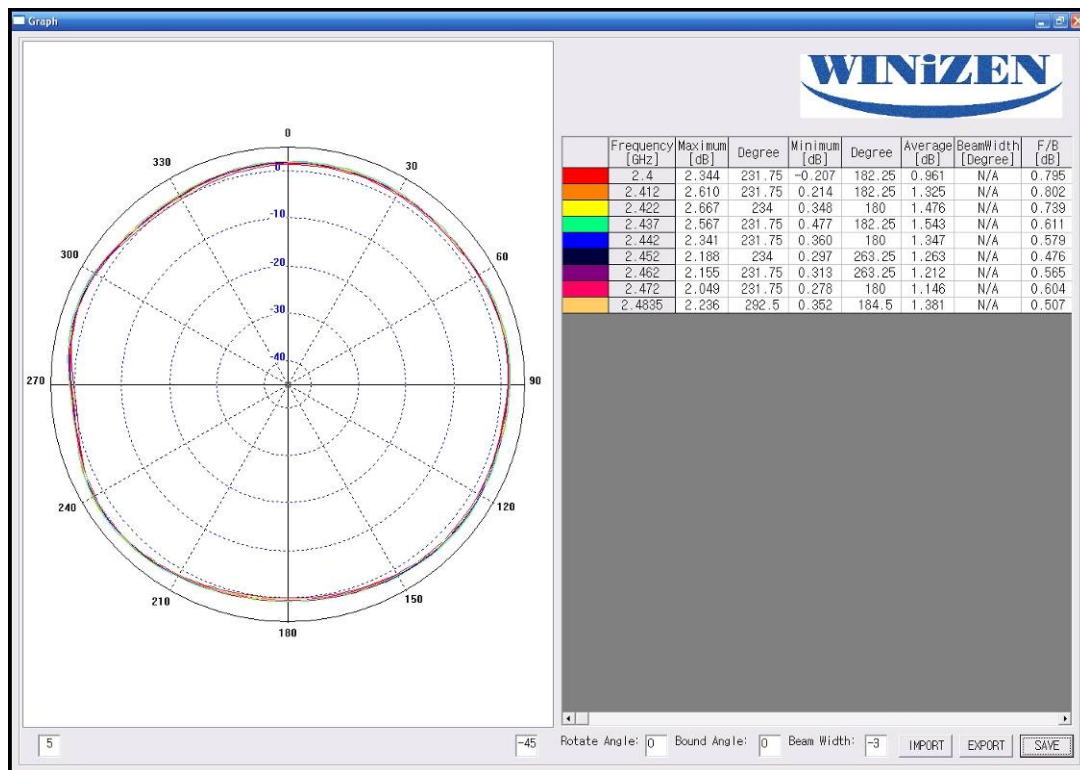
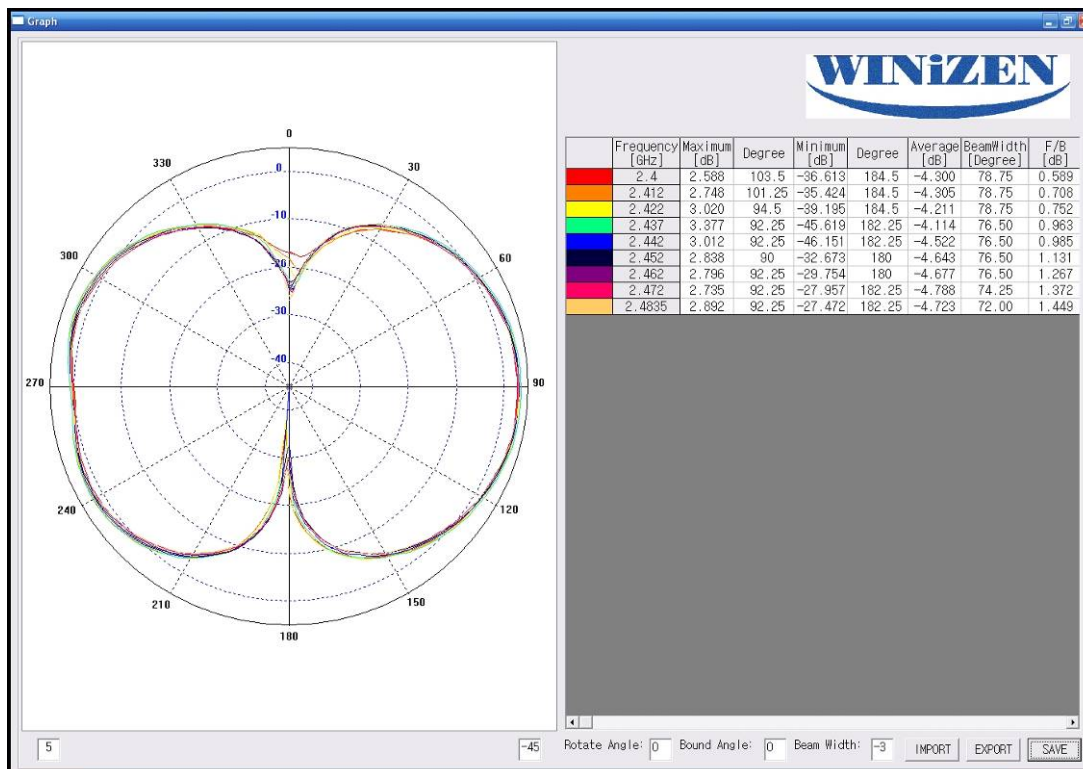


Fig 6. Gain Patterns

a. Azimuth Pattern



b. Elevation Pattern





c. Elevation Side Pattern

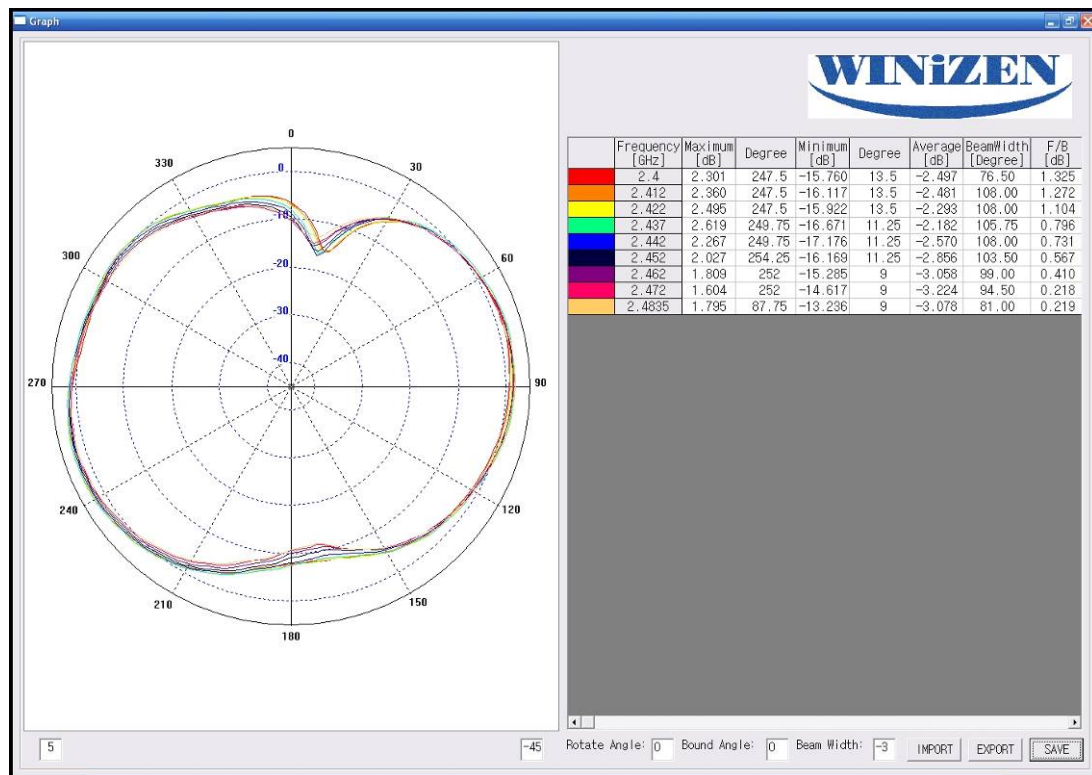


Fig 7. Antenna Mechanical

