



## Specifications Sheet

<b>Object</b>	External Dipole Antenna	<b>Page</b>	1 of 6
<b>Customer</b>		<b>Date</b>	August 19, 2005
<b>System</b>	WLAN/Bluetooth/Zigbee/ISM	<b>Rev.</b>	B
<b>Model Name</b>	W5E-WO-03	<b>Written by</b>	

### Electrical Specifications

<b>Frequency Range ( MHz )</b>	2400 ~ 2483.5
<b>Band Width ( MHz )</b>	83.5
<b>V.S.W.R ( Min )</b>	1.9 : 1
<b>Gain ( Max )</b>	2.5 ( dBi )
<b>Input Impedance</b>	50 ( $\Omega$ )
<b>Polarization</b>	Linear

### Mechanical Specifications

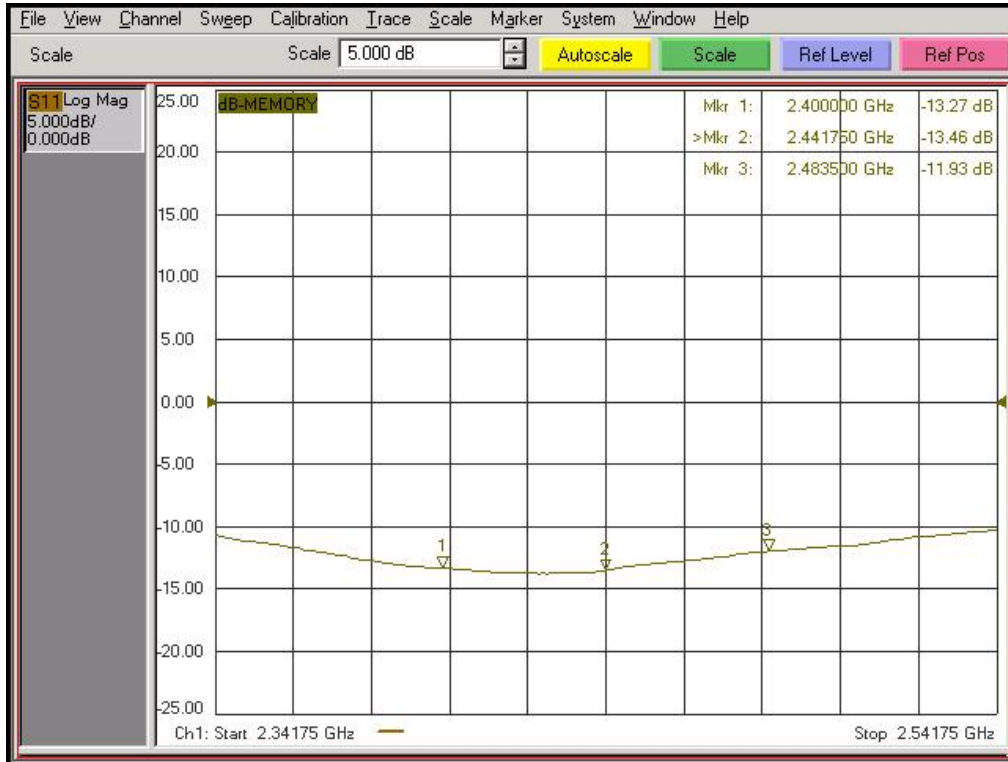
<b>Antenna Size ( Length x Diameter )</b>	104.9 × 11 mm
<b>Weight</b>	12.5 g
<b>Connector</b>	SMA Male
<b>Operation Temperature</b>	- 30 ~ 70 ( $^{\circ}\text{C}$ )
<b>Operation Humidity</b>	10 ~ 90 ( % )

<b>Option</b>	
<b>Remarks</b>	

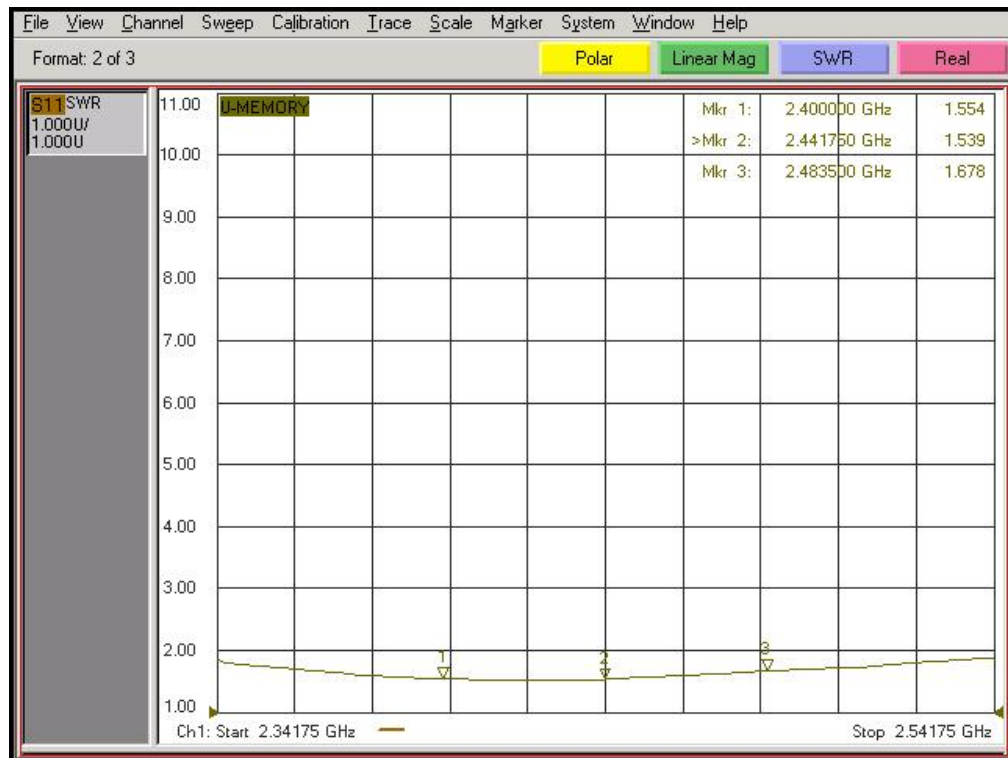
**WINiZEN Co., Ltd.**



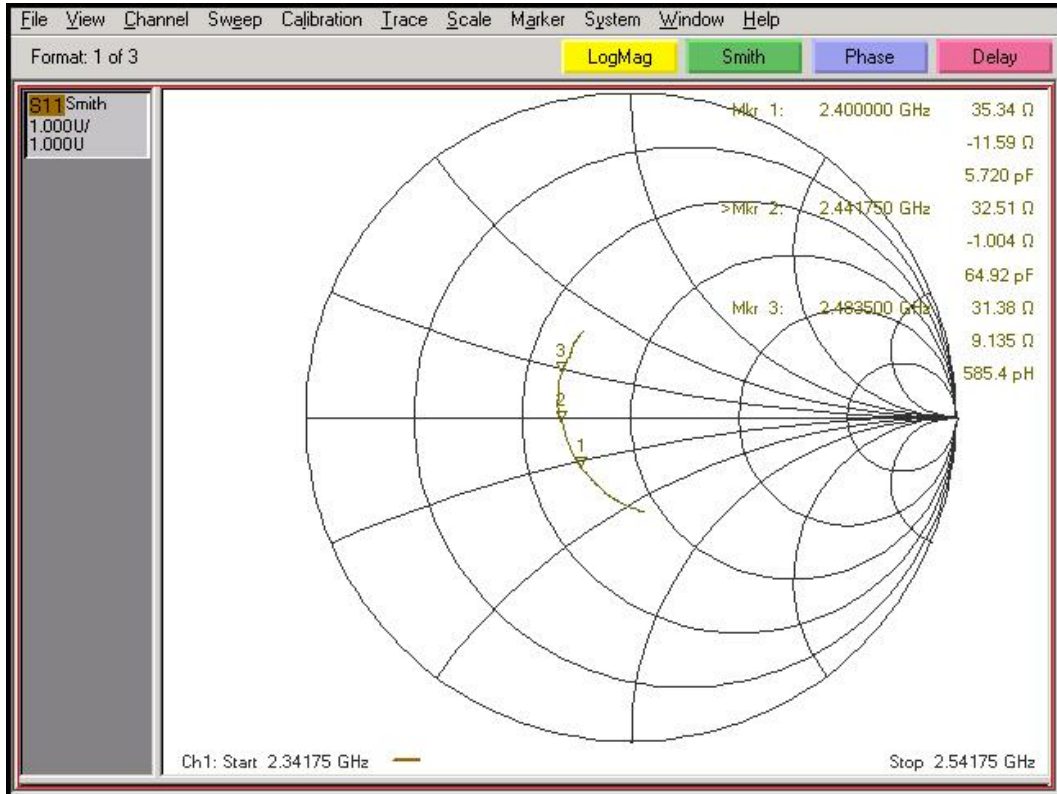
**Fig 1. Return Loss** (Agilent E8357A 300KHz~6GHz PNA Series Network Analyzer)



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

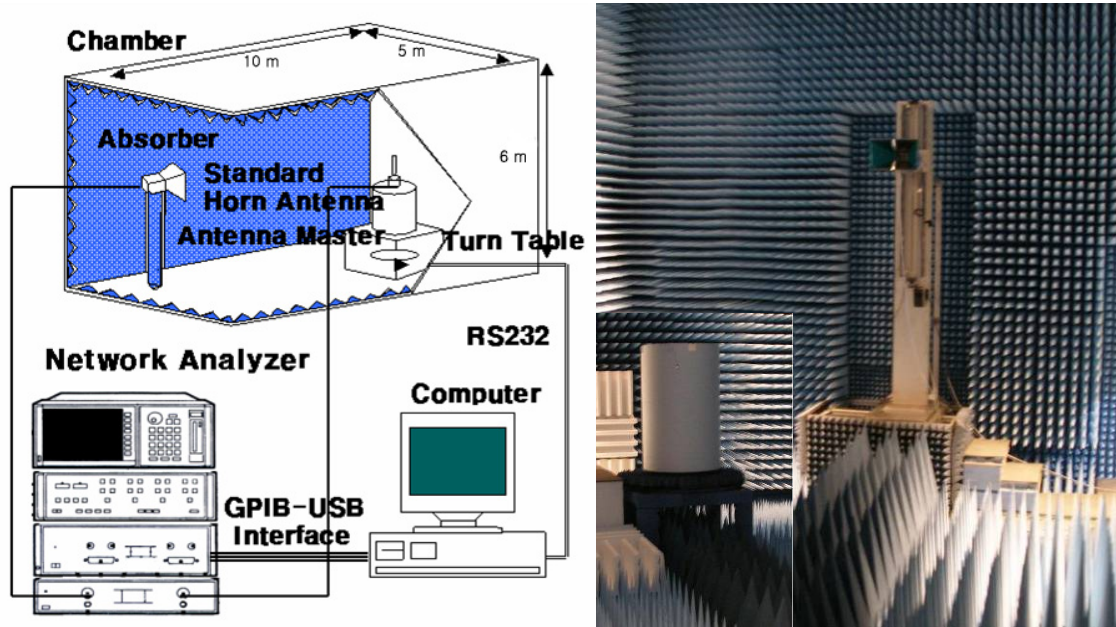


**Fig 3. Smith Chart** (Agilent E8357A 300KHz~6GHz PNA Series Network Analyzer)

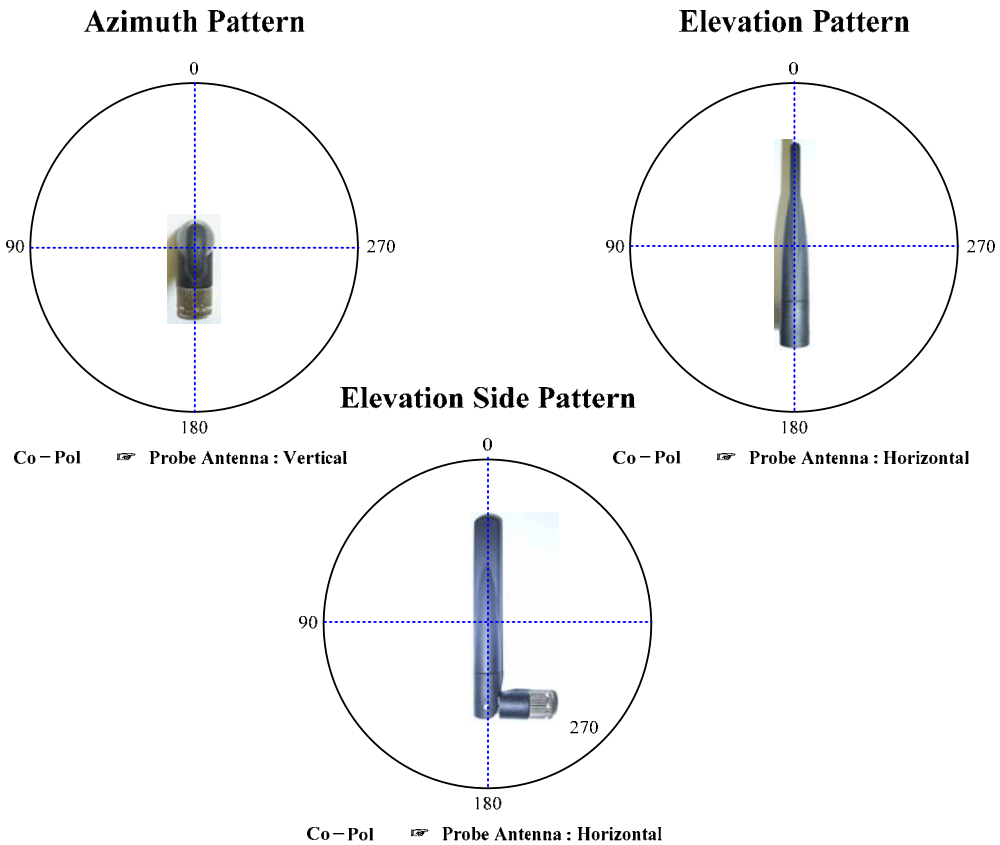


### Fig 4. Measurement Configuration

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

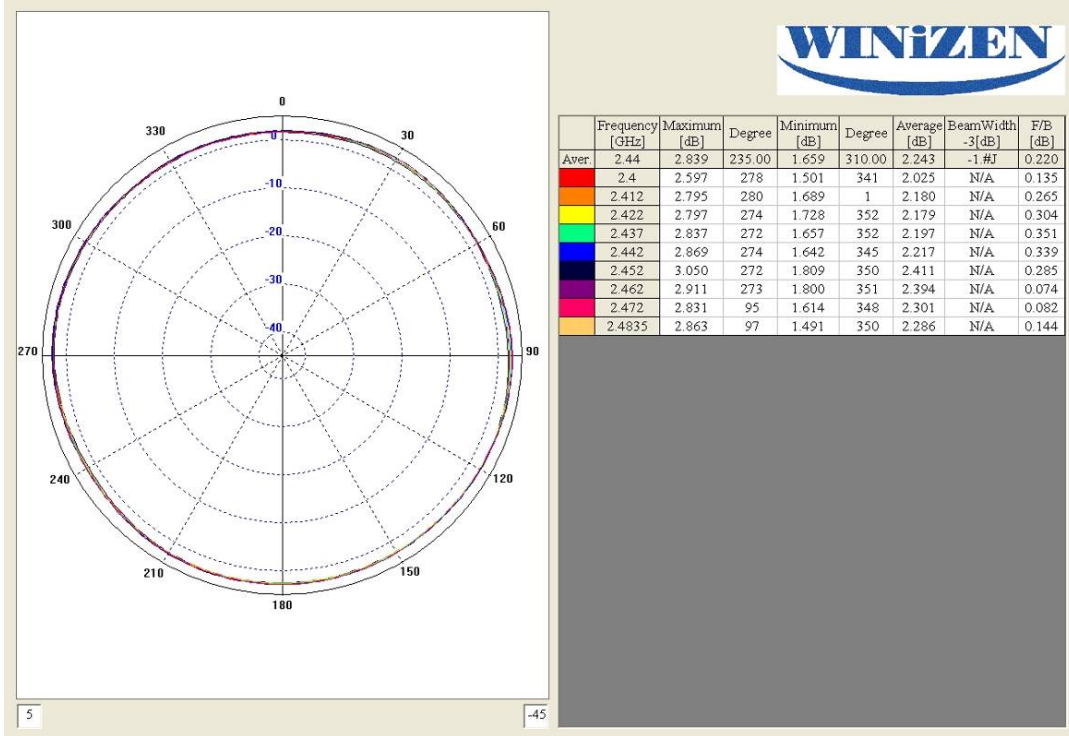


### Fig 5. Axis Definitions (Antenna Center)

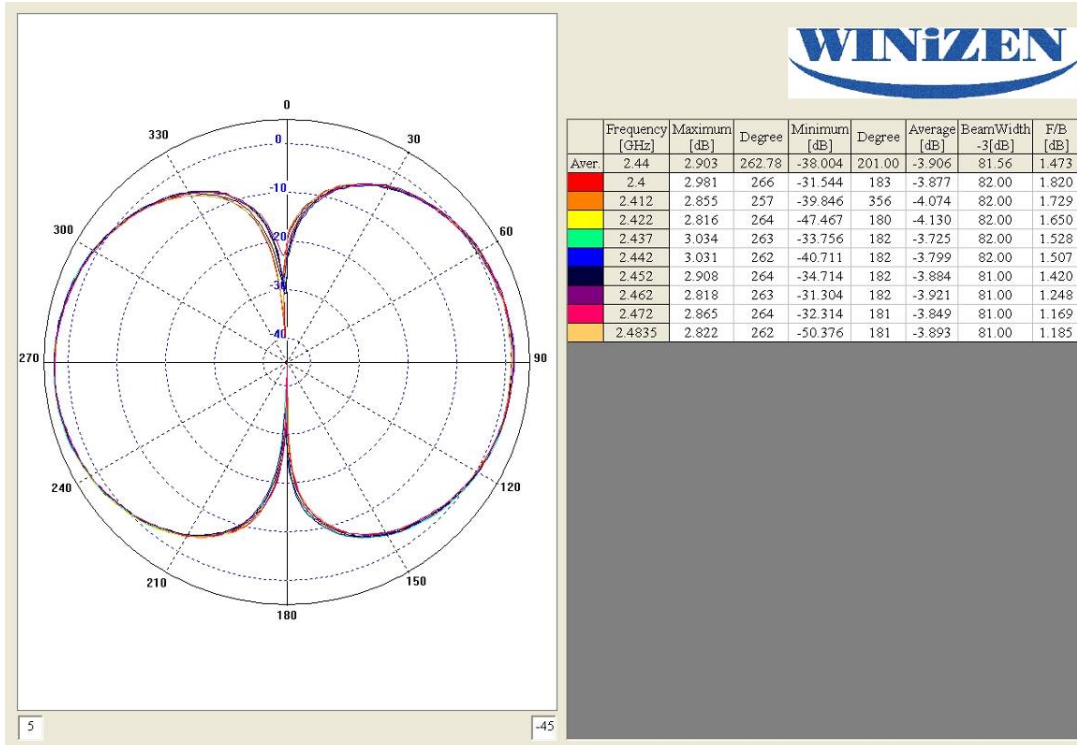


**Fig 6. Gain Patterns**

**a. Azimuth Pattern**



**b. Elevation Pattern**



**Fig 7. Antenna Mechanical**

