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## Specifications Sheet

<b>Object</b>	Internal Antenna	<b>Page</b>	1 of 6
<b>Customer</b>		<b>Date</b>	February 19, 2010
<b>System</b>	WLAN/ Bluetooth/ Zigbee	<b>Rev.</b>	A
<b>Model Name</b>	W5I-BO-07	<b>Written by</b>	W. I. KWAK

### 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 ± 1 ( dBi )
<b>Input Impedance</b>	50 ( Ω )
<b>Polarization</b>	Linear

### Mechanical Specifications

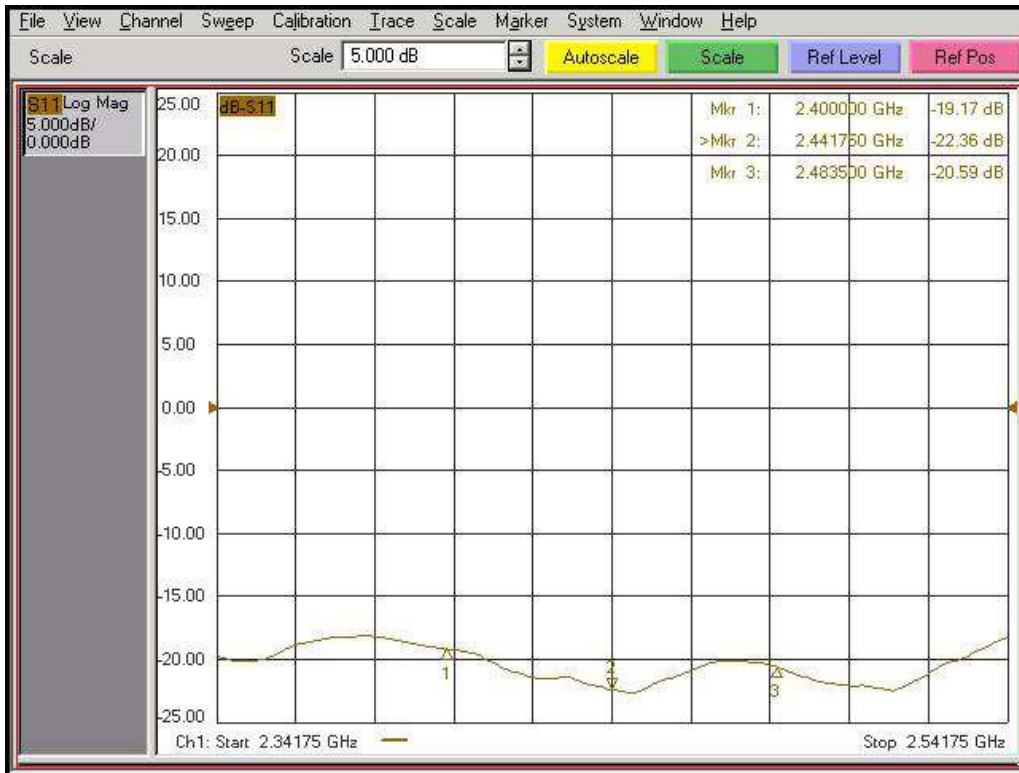
<b>Antenna Size (Length x Width x Height )</b>	48 × 8 × 1 mm
<b>Weight</b>	N / A
<b>Connector</b>	I-PEX MHF
<b>Cable Length</b>	130 mm
<b>Radiator Material</b>	Copper
<b>Operation Temperature</b>	- 30 ~ 70 ( °C )
<b>Operation Humidity</b>	10 ~ 90 ( % )

<b>Option</b>	
<b>Remarks</b>	Data measured at free-space.

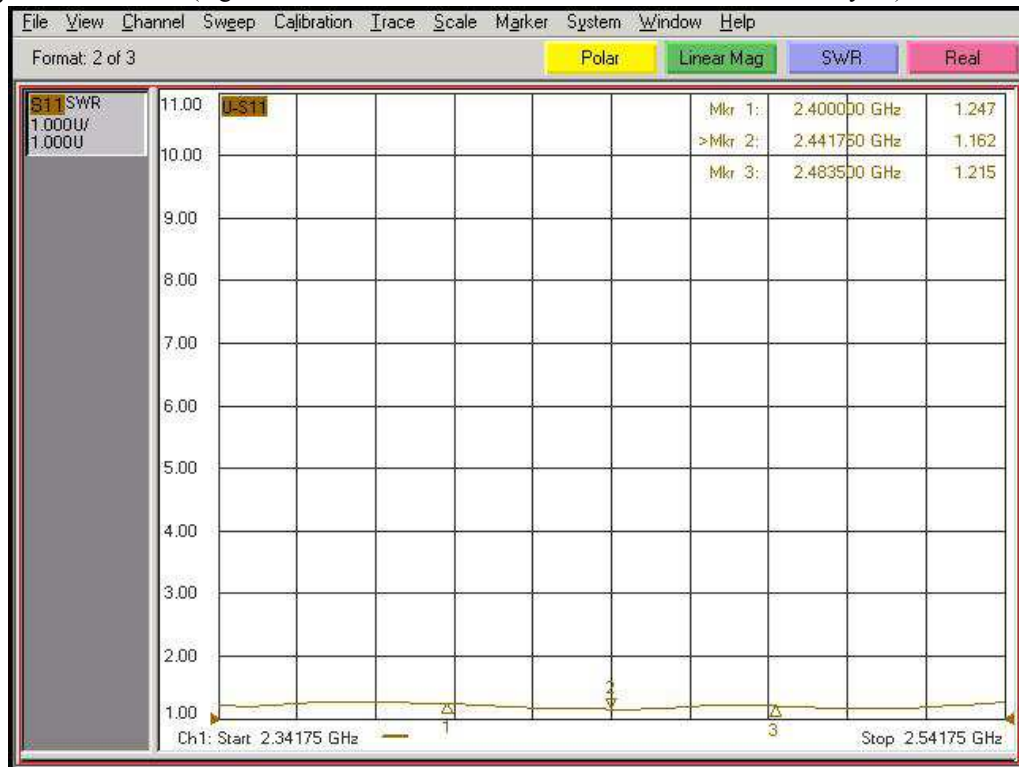
**WINiZEN Co., Ltd.**



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



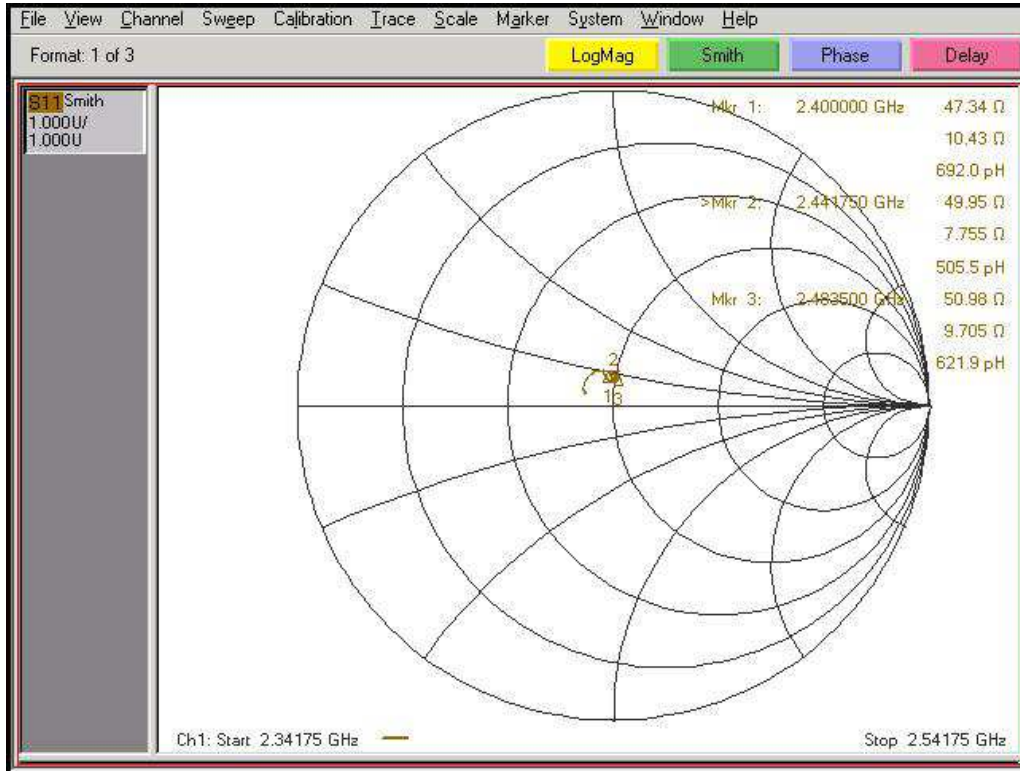
**Fig 2. V.S.W.R** (Agilent E8357A 300KHz~6GHz PNA Series Network Analyzer)



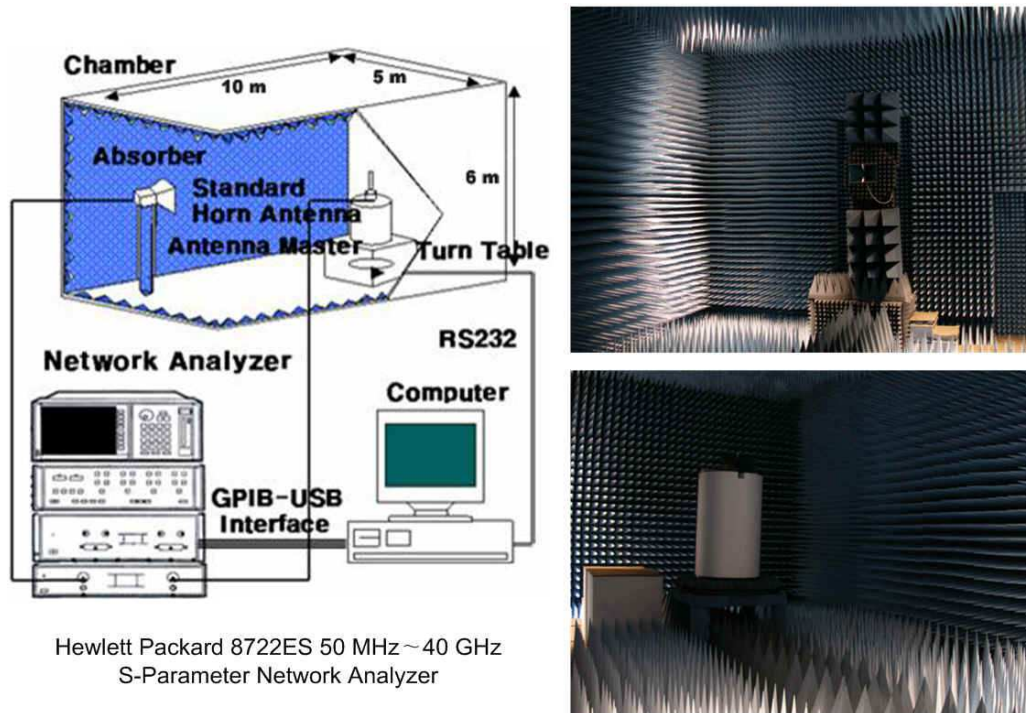


**Fig 3. Smith Chart** (Agilent E8357A 300KHz ~ 6GHz PNA Series Network Analyzer)

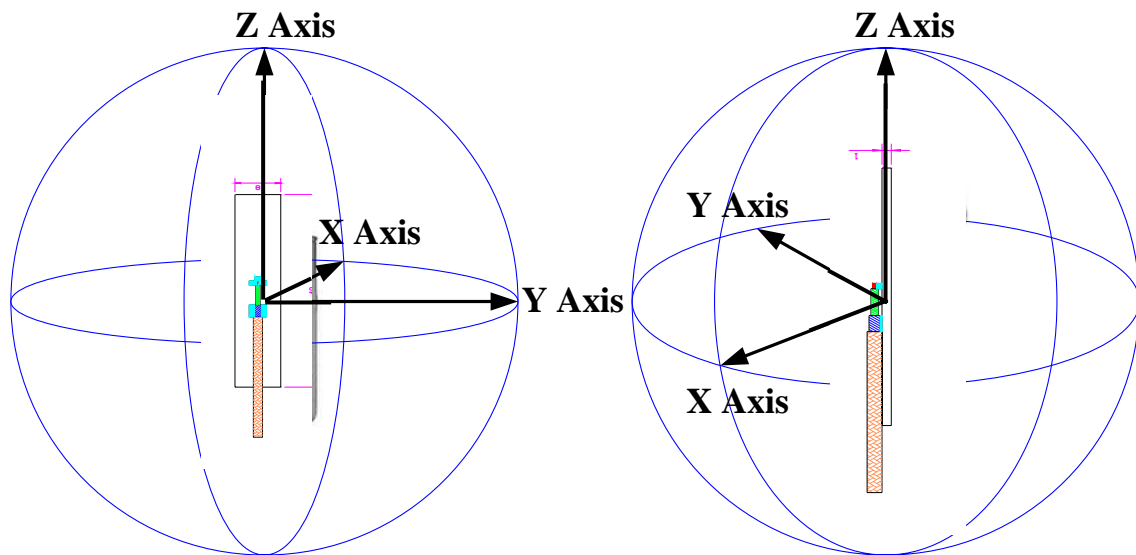
**LEFT**



**Fig 4. Measurement Configuration**



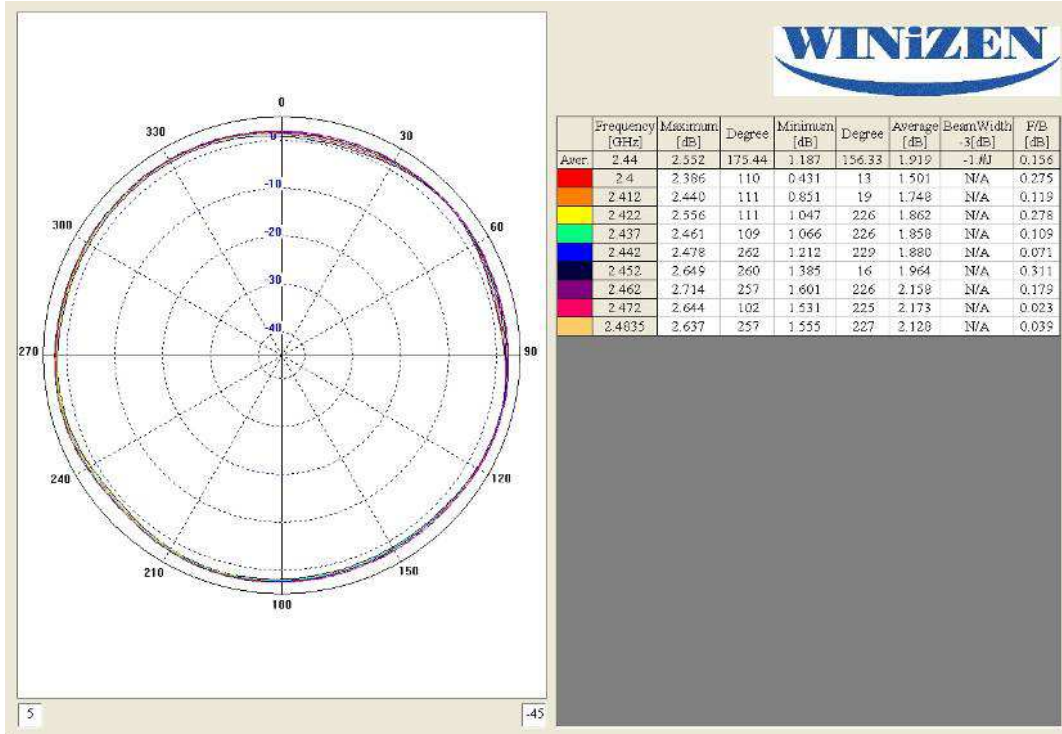
**Fig 5. Axis Definitions (Antenna Center)**



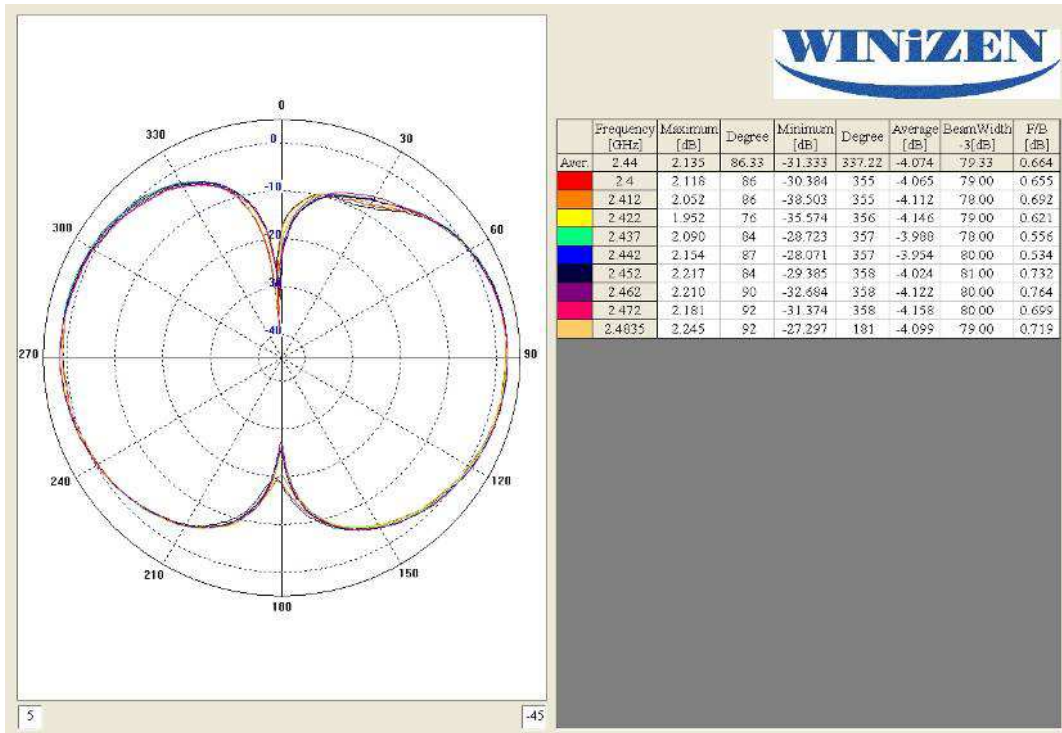
- a. Azimuth Pattern (Co-pol) : XY Plane ; Horn Antenna Polarization : Vertical
- b. Elevation Pattern (Co-pol) : XZ Plane ; Horn Antenna Polarization : Horizontal
- c. Elevation Side Pattern (Co-pol) : YZ Plane ; Horn Antenna Polarization : Horizontal

**Fig 6. Gain Patterns**

**a. Azimuth Pattern**



**b. Elevation Pattern**





**Fig 7. Antenna Mechanical**

