

Specifications Sheet

| | | | |
|-------------------|-------------------------|-------------------|---------------|
| Object | External Dipole Antenna | Page | 1 of 6 |
| Customer | | Date | July 16, 2005 |
| System | WLAN/Bluetooth | Rev. | IR |
| Model Name | WE - 2405TO | 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) | 4.966 (dBi) |
| Input Impedance | 50 (Ω) |
| Polarization | Linear |

Mechanical Specifications

| | |
|---|----------------------------------|
| Antenna Size (Width x Length x Height) | 182.5 × 10 mm |
| Weight | N / A |
| Radiator Material | Copper |
| Operation Temperature | - 30 ~ 70 ($^{\circ}\text{C}$) |
| Operation Humidity | 10 ~ 90 (%) |

| | |
|----------------|--|
| Option | |
| Remarks | |

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)

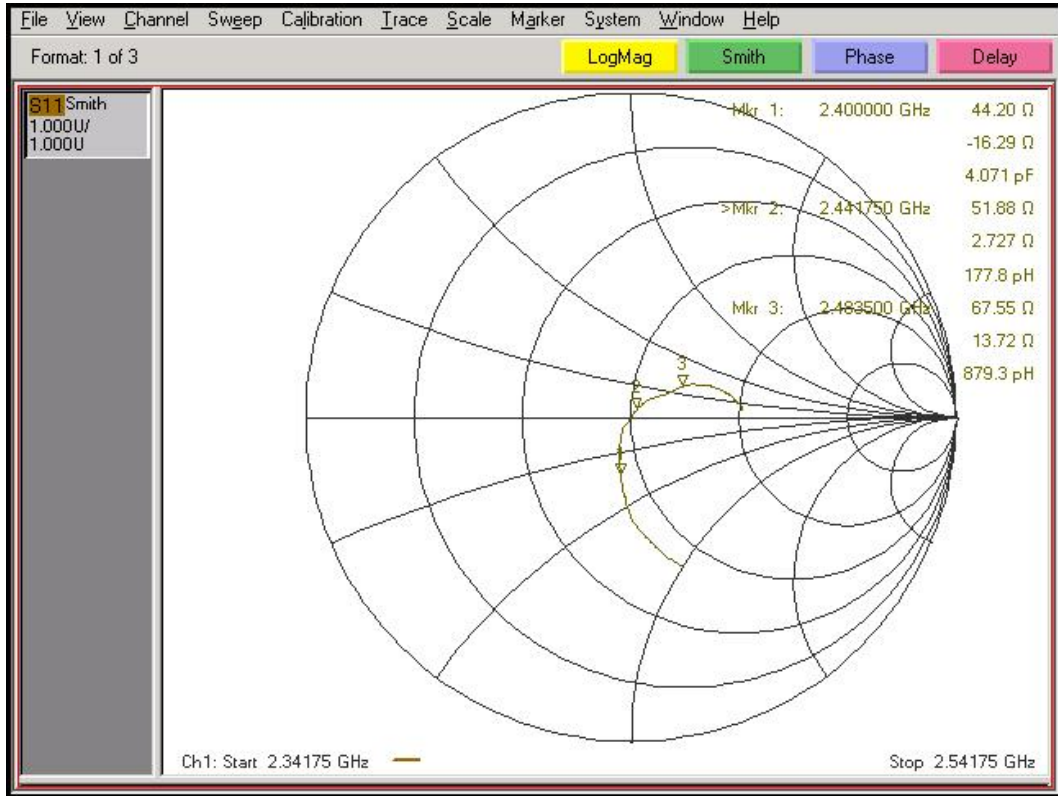


Fig 4. Measurement Configuration

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

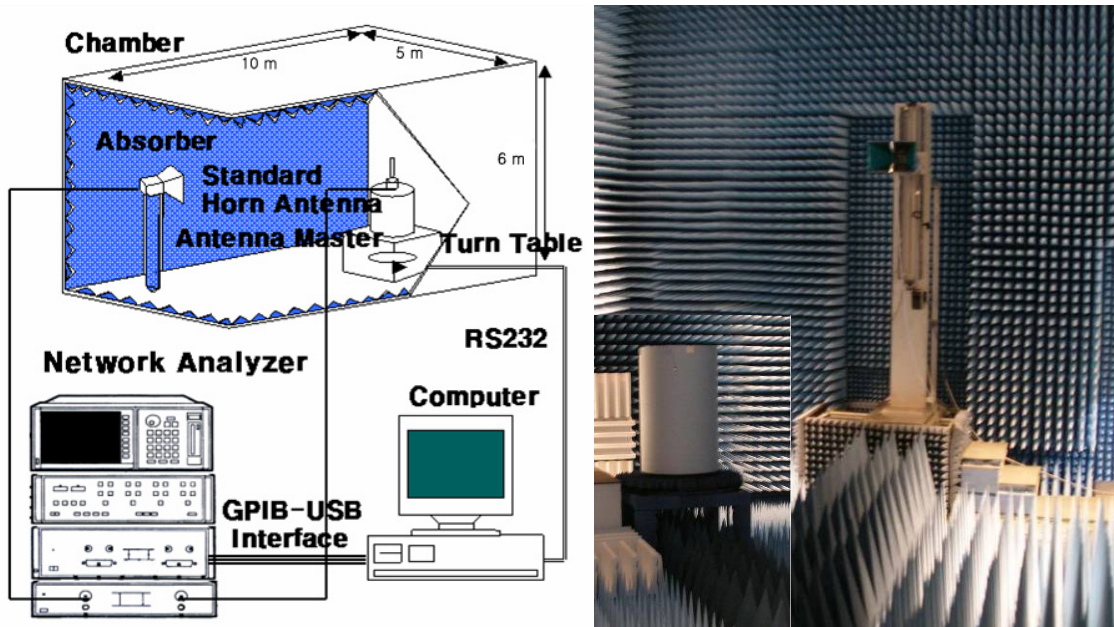
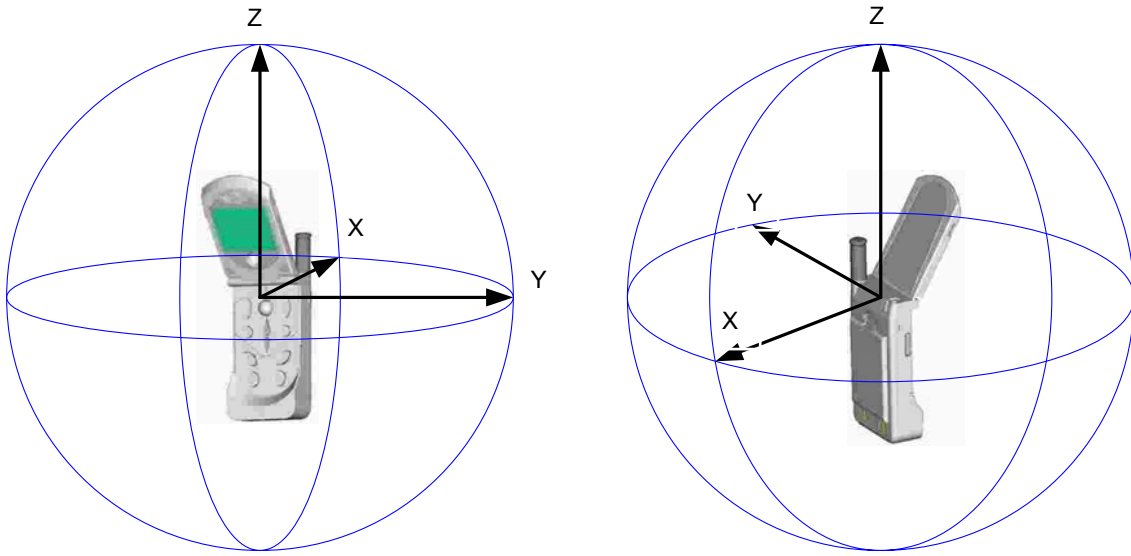


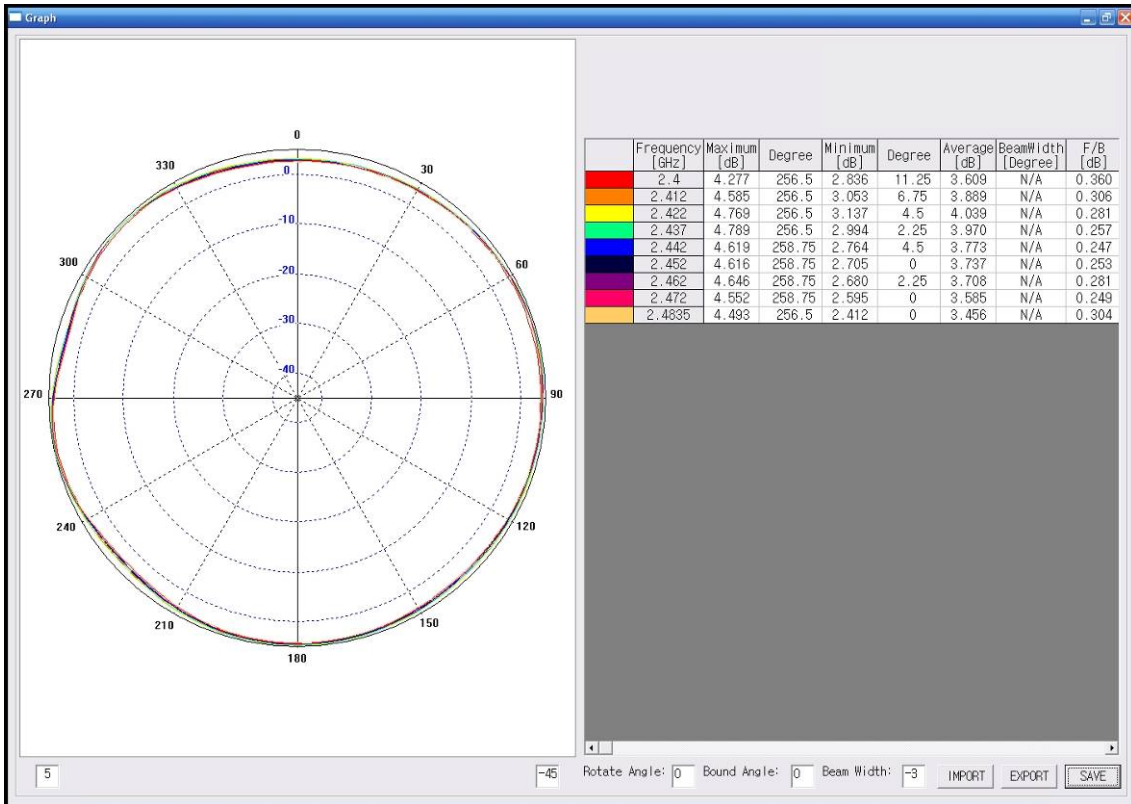
Fig 5. Axis Definitions (Antenna Center)



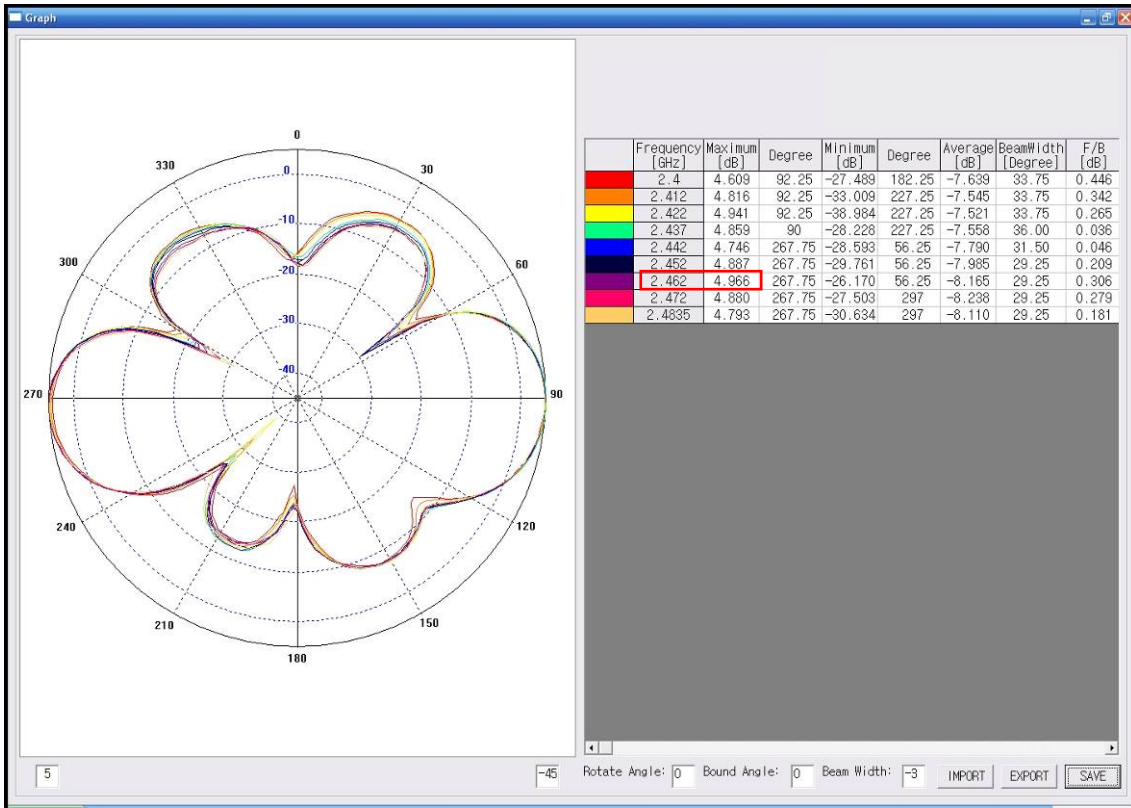
- a. Azimuth Pattern (Co-pol) : XY Plane ; Horn Antenna Polarization : Vertical
- b. Elevation Pattern (Co-pol) : XZ Plane ; Horn Antenna Polarization : Horizontal
- c. Elevation Side Pattern (Co-pol) : YZ Plane ; Horn Antenna Polarization : Horizontal

Fig 6. Gain Patterns

a. Azimuth Pattern



b. Elevation Pattern



c. Elevation Side Pattern

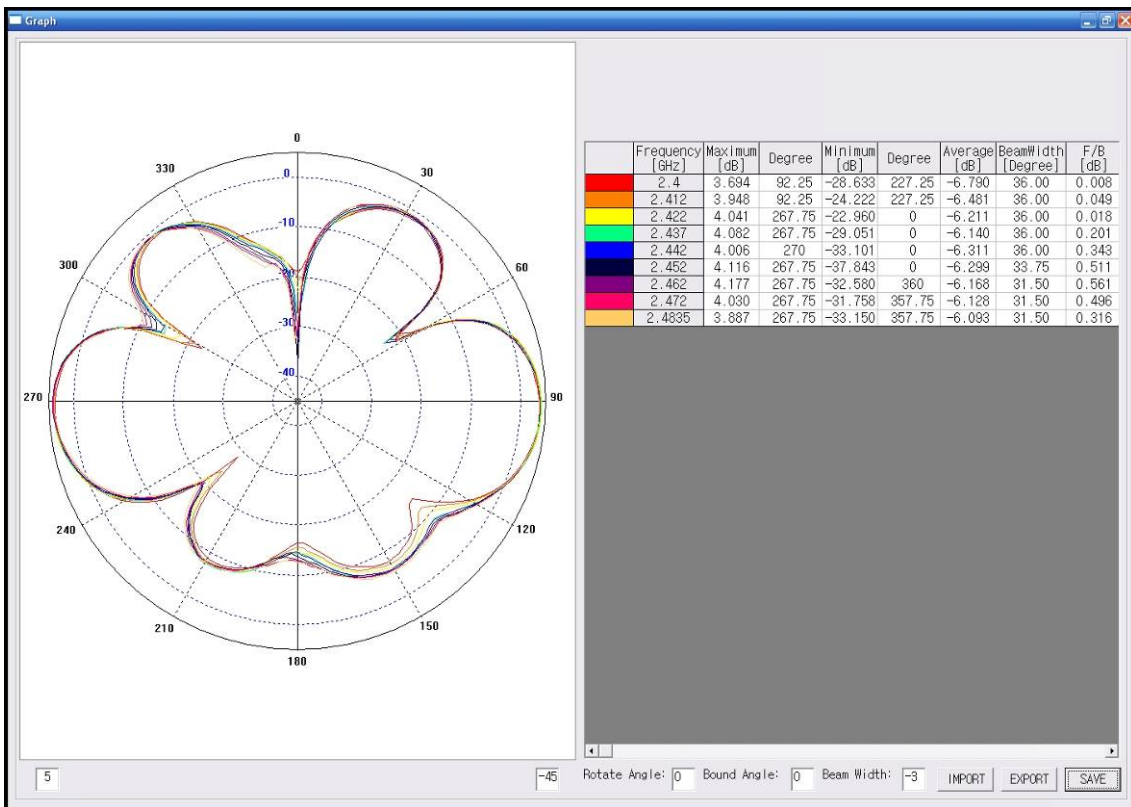


Fig 7. Antenna Mechanical

