

## **Product specification**

### **Quick Reference Data**

|                            |                                    |  |
|----------------------------|------------------------------------|--|
|                            | Antenna module on the system board |  |
| Antenna type               | PCB                                |  |
| Frequency                  | 2.45GHz*1                          |  |
| Ant. Port Input Pwr. (dBm) | 0 (Typ. BT class 2 output power)   |  |
| Tot. Rad. Pwr. (dBm)       | -2.3 (Input pwr ?loss pwr)         |  |
| Peak EIRP(dBm)             | 1.3                                |  |
| Directivity (dBi)          | 1 (all direction antenna)          |  |
| Efficiency (dB)            | -2.3 (58.5%)                       |  |
| Gain (dBi)                 | 1.7 (Peak Gain X Z-plane)          |  |
| Maximum Power (dBm)        | 1.3 (XY-plane)                     |  |
| Minimum Power (dBm)        | -4(XY-plane)                       |  |
| Avg. Power (dBm)           | -0.5(XY-plane)                     |  |
| Max/Min Ratio (dB)         | 5.3(XY-plane)                      |  |
| Max/Avg Ratio (dB)         | 1.8(XY-plane)                      |  |
| Min/Avg Ratio (dB)         | -3.5(XY-plane)                     |  |
| Average Gain (dB)          | -0.5 (Avg Gain XY-plane)           |  |

All the technical data and information contained herein are subject to change without prior notice

### **Antenna Layout & module on the system board**

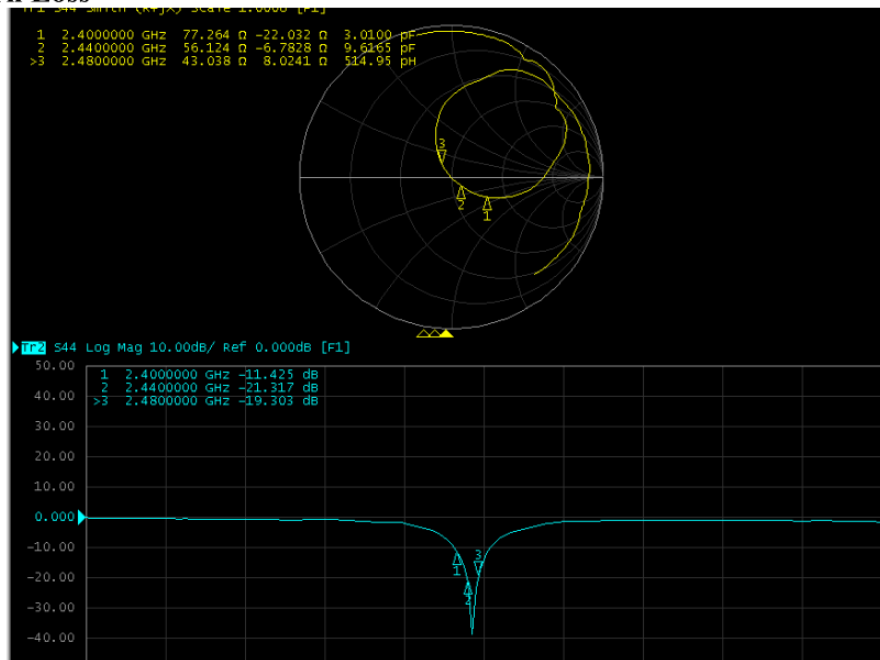


### **Antenna Gain**

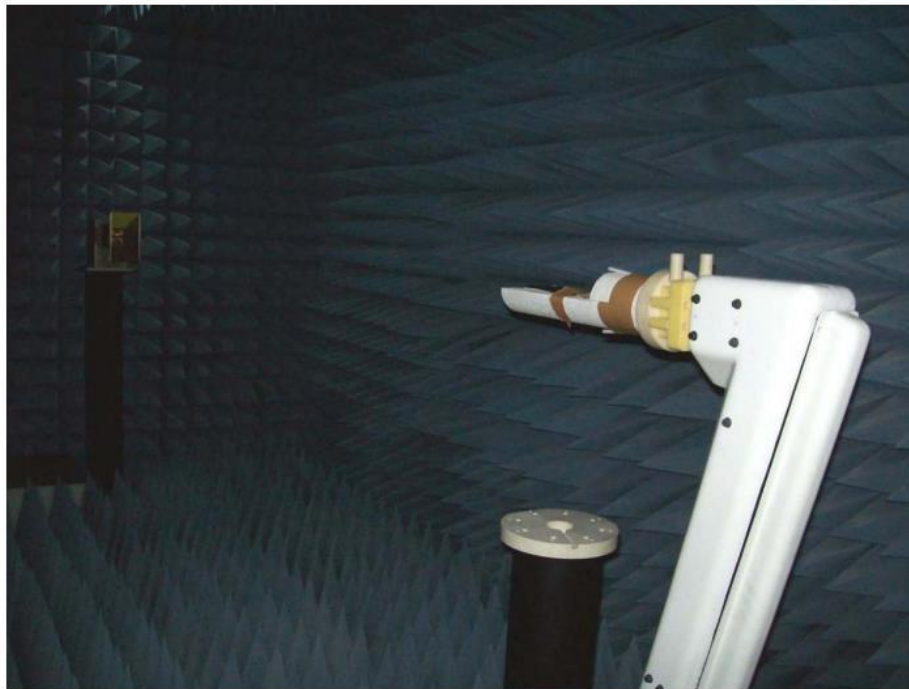
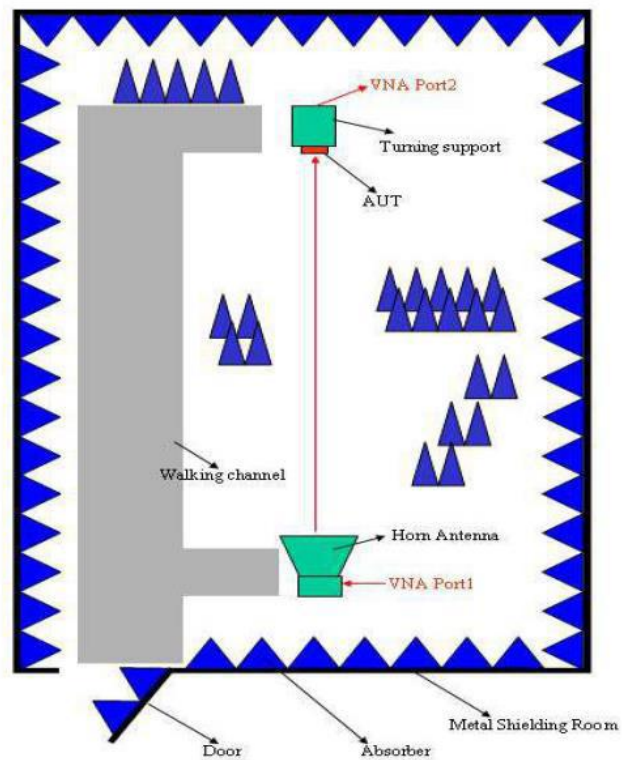
**Gain Table**

| Unit in dBi @2.44GHz | XY-plane |      | XZ-plane |      | YZ-plane |      | Efficiency |
|----------------------|----------|------|----------|------|----------|------|------------|
|                      | Peak     | Avg. | Peak     | Avg. | Peak     | Avg. |            |
| Module Board         | 1.3      | -0.5 | 1.7      | -3.8 | 1.1      | -3.0 | 58.5%      |

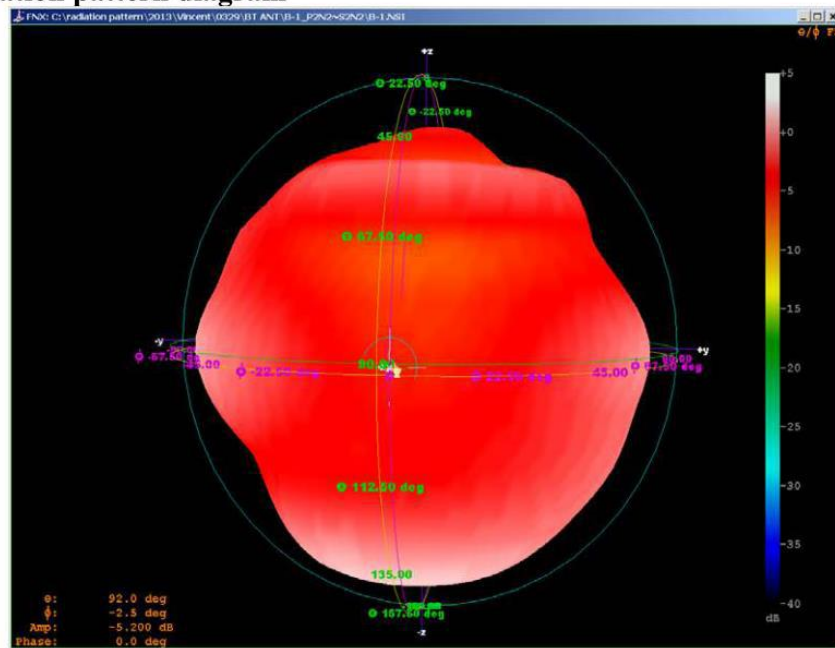
## Return Loss



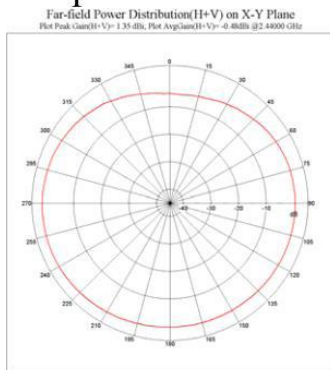
## The Environment of Antenna Radiation Pattern



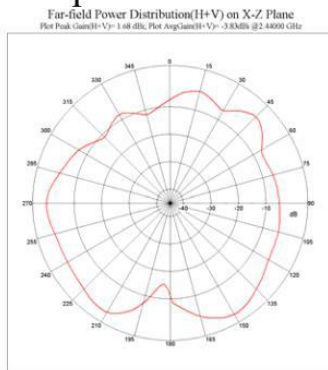
## 3D radiation pattern diagram



## XY-plane



## XZ-plane



## YZ-plane

