

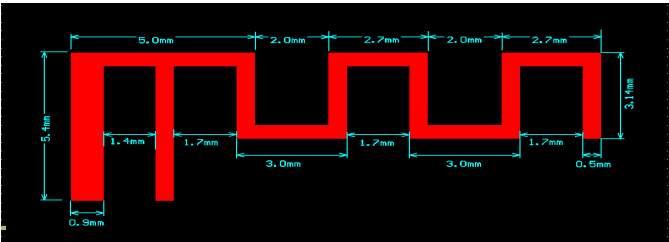
Product specification

Quick Reference Date

|                            |                                  |  |
|----------------------------|----------------------------------|--|
| Model:                     | 2.4G ANT                         |  |
| 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 XZ-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)         |  |

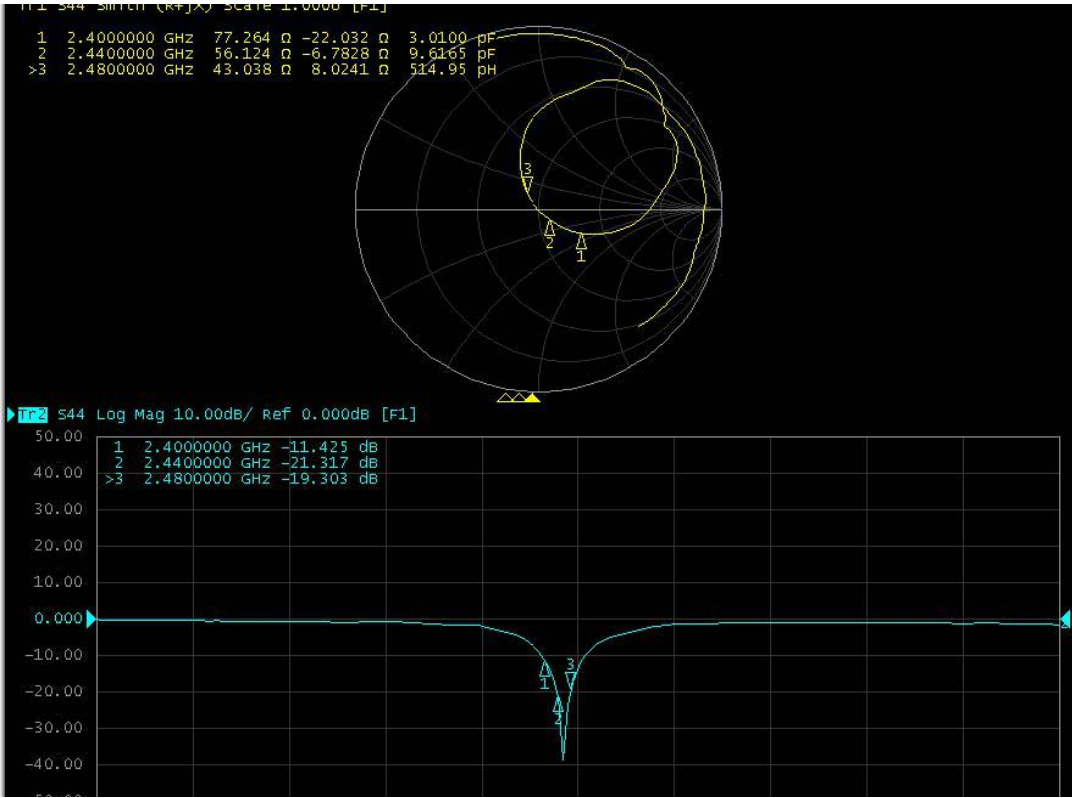
All the technical data and information contained herein are subject to change without prior notice

Antenna Layout & module on the system board

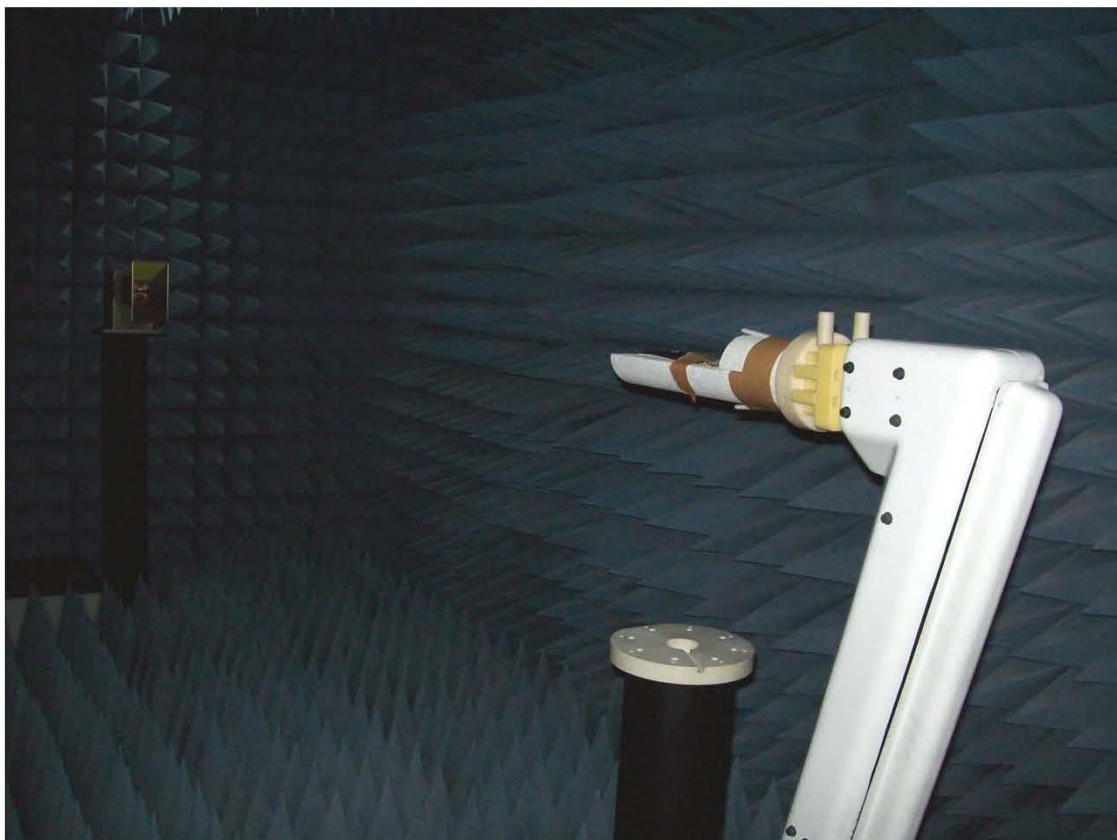
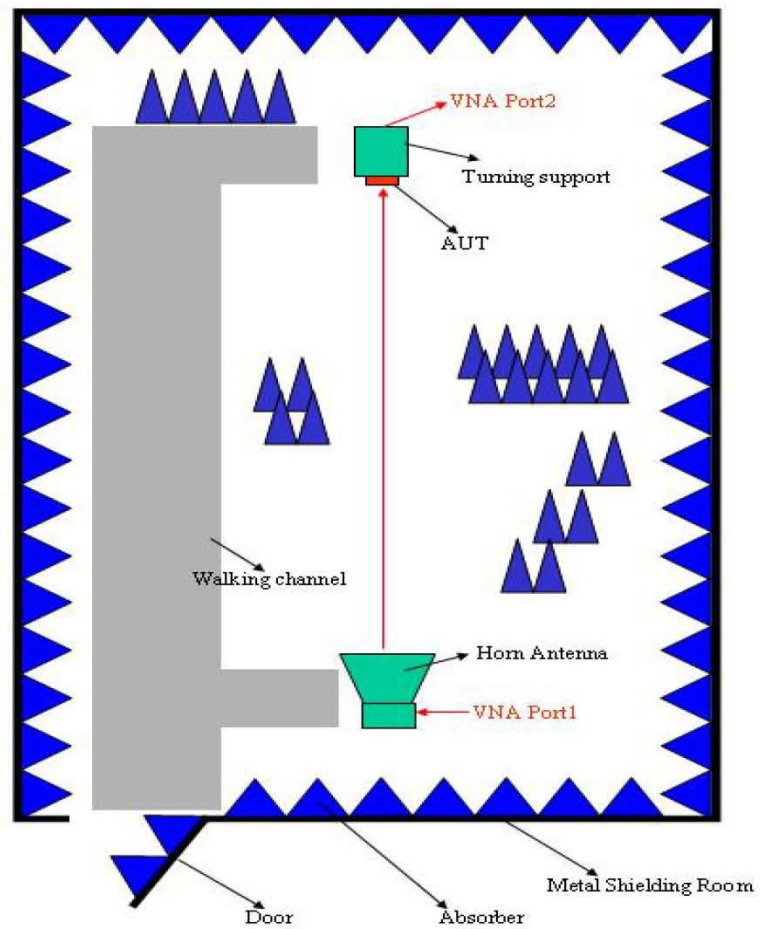


Antenna Gain  
Gain Table

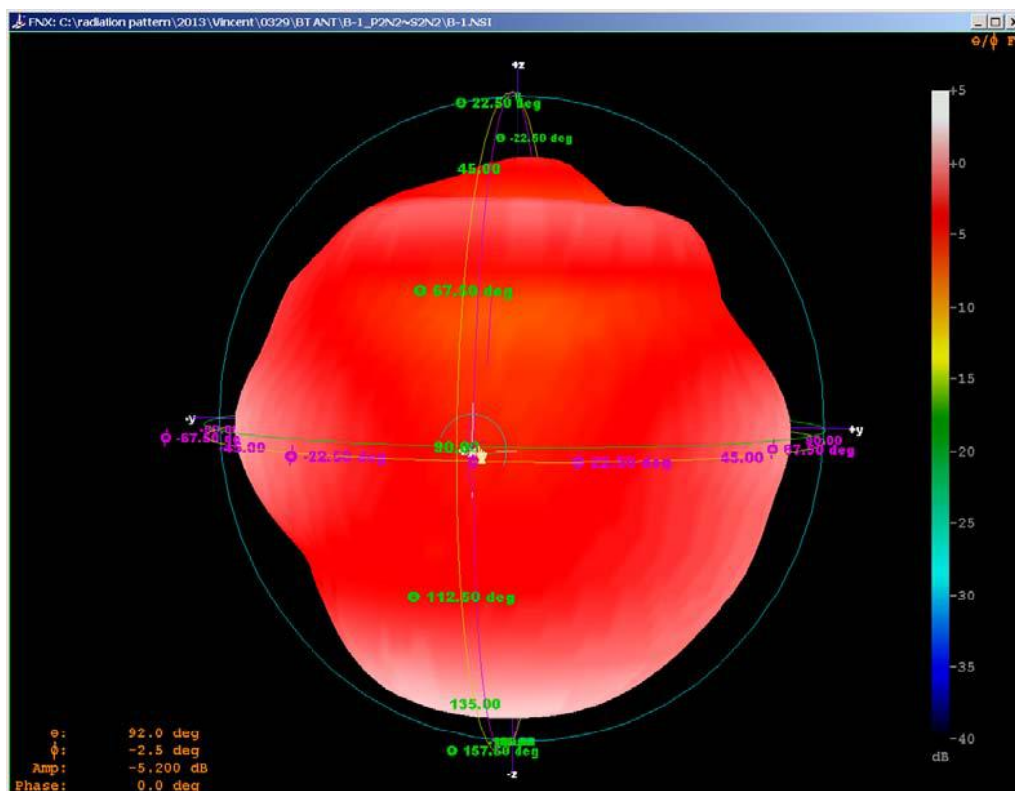
| Unit in dBi<br>@2.44GHz | XY-plane |      | XZ-plane |      | YZ-plane |      | Efficiency |
|-------------------------|----------|------|----------|------|----------|------|------------|
|                         | Peak     | Avg. | Peak     | Avg. | Peak     | Avg. |            |
| Module Board 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



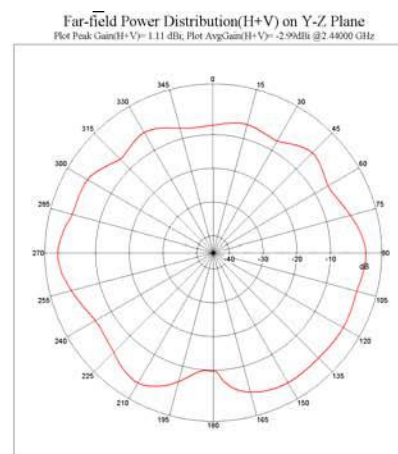
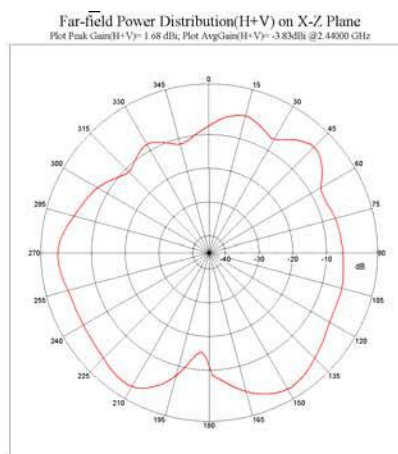
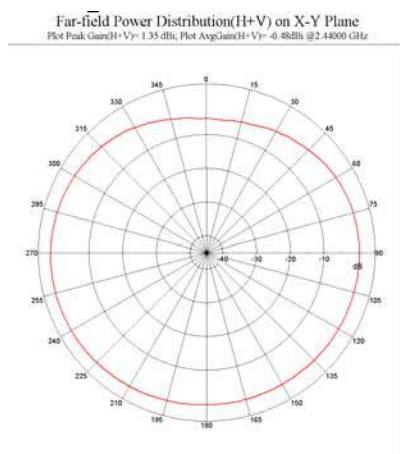
Return Loss



The Environment of Antenna Radiation Pattern



3D radiation pattern diagram



XY-plane XZ-plane YZ-plane