

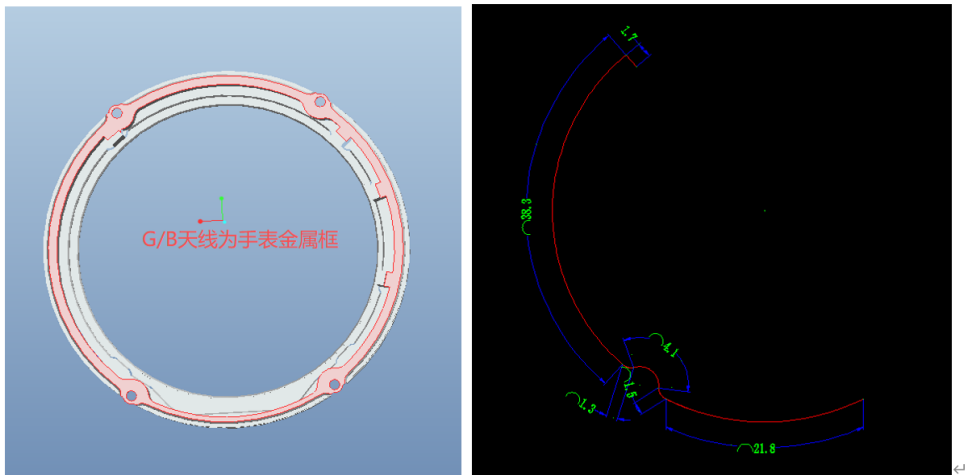
Product specification

Quick Reference Date

|                          |                                  |  |
|--------------------------|----------------------------------|--|
|                          | Antennamodule on thesystem board |  |
| Frequenc Range           | 2400 ~ 2500MHz                   |  |
| Ant.Port InputPwr. (dBm) | 0 (Typ.BT class 2 outputpower)   |  |
| Tot.Rad. Pwr. (dBm)      | -1.2(Input pwr loss pwr)         |  |
| Peak EIRP(dBm)           | 1.2                              |  |
| Directivity (dBi)        | 1 (all direction antenna)        |  |
| Efficiency (dB)          | 6 0.2 %                          |  |
| Gain (dBi)               | 1.68 (Avg Gain XY-plane)         |  |
| MaximumPower (dBm)       | 1.7 (XY-plane)                   |  |
| MinimumPower (dBm)       | -4(XY-plane)                     |  |
| Avg. Power (dBm)         | -0.5(XY-plane)                   |  |
| InputImpedence(ohm)      | 50                               |  |
| PolarizationType         | V ertical & Horizontal           |  |
| V . S .W . R             | < 1.4                            |  |

All thetechnical dāa andinformationcontained herein are subject to changewithoutprior notice

Antennalayout & module on thesystem board (mm)

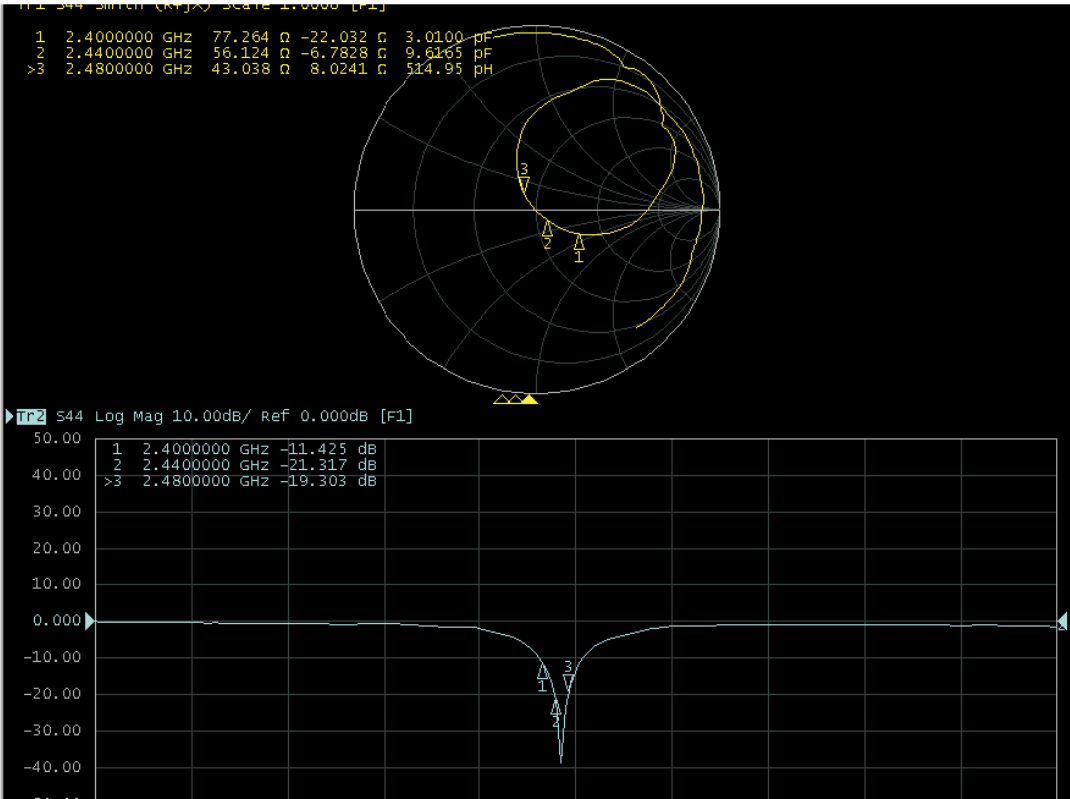


Antenna Gain

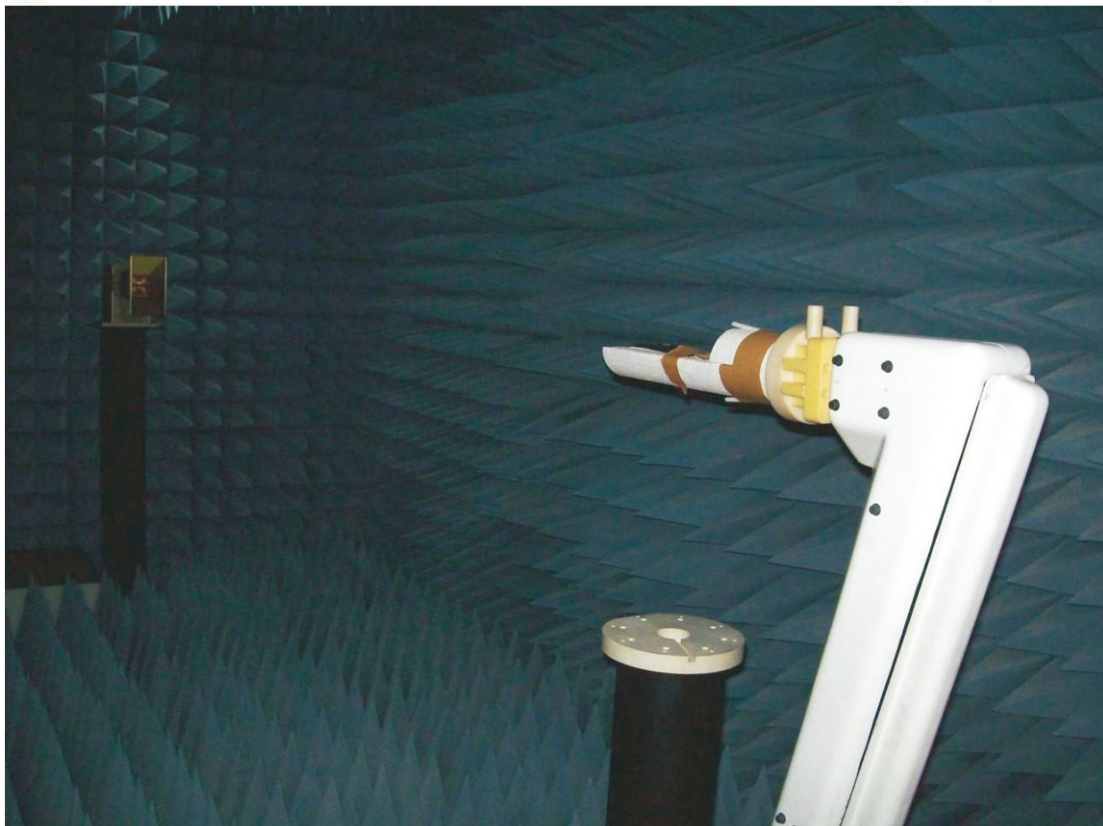
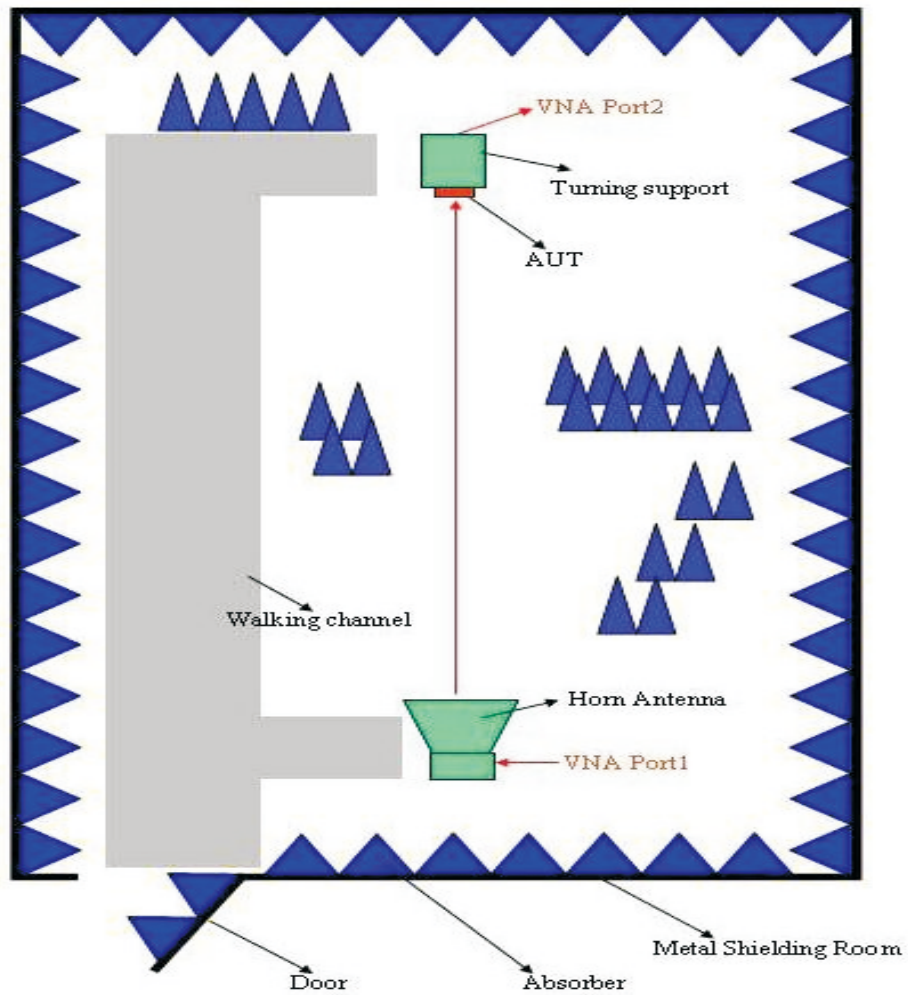
Gain Table

| Unit in dBi @2.44GHz | XY-plane |       | XZ-plane |       | YZ-plane |       | Efficiency |
|----------------------|----------|-------|----------|-------|----------|-------|------------|
|                      | Peak     | Avg.  | Peak     | Avg.  | Peak     | Avg.  |            |
| Module Board         | 1.35     | -0.48 | 1.68     | -3.83 | 1.11     | -2.99 | 6 0.2%     |

# ReturnLoss



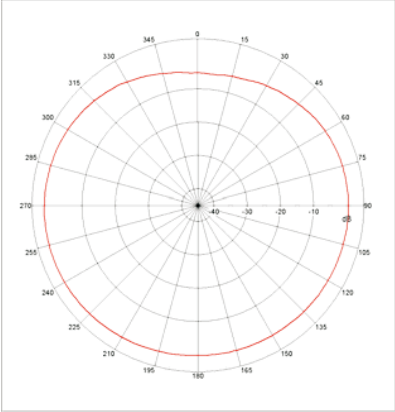
## The Environment of Antenna Radiation Pattern



radiation pattern diagram

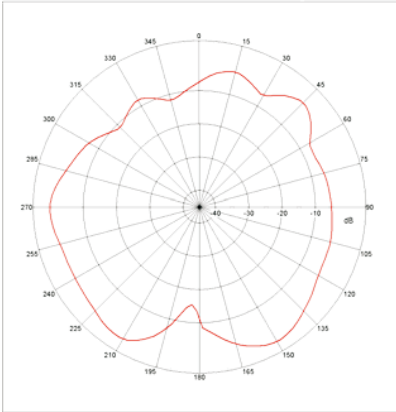
XY-plane

Far-field Power Distribution(H+V) on X-Y Plane  
Plot Peak Gain(H+V)= 1.35 dBi, Plot AvgGain(H+V)= -0.86dBi @2.44000 GHz



XZ-plane

Far-field Power Distribution(H+V) on X-Z Plane  
Plot Peak Gain(H+V)= 1.68 dBi, Plot AvgGain(H+V)= -3.83dBi @2.44000 GHz



YZ-plane

Far-field Power Distribution(H+V) on Y-Z Plane  
Plot Peak Gain(H+V)= 1.11 dBi, Plot AvgGain(H+V)= -2.99dBi @2.44000 GHz

