

1. Antenna Description

|                        |                              |
|------------------------|------------------------------|
| Equipment              | Bridgemate III server        |
| Antenna plate          | Internal antenna             |
| Market name/Model name | BS3-1A                       |
| Manufacture            | Bridge Systems BV            |
| Antenna Max. Gain      | -1.8dBi                      |
| Frequency Range        | 2412-2462MHz<br>2422-2452MHz |
| Connect Type           | Integer antenna              |

2. Picture of antenna



Length\*width=20mm\*2mm

3. Test Setup

3.1 Microwave chamber diagram

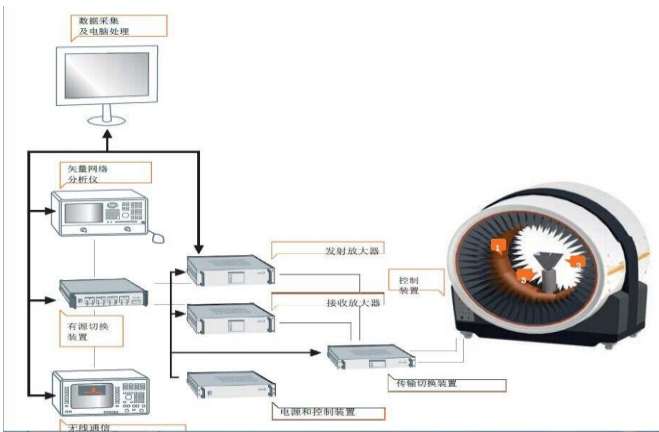


Figure 1 Wiring diagram of assembly test for microwave chamber system

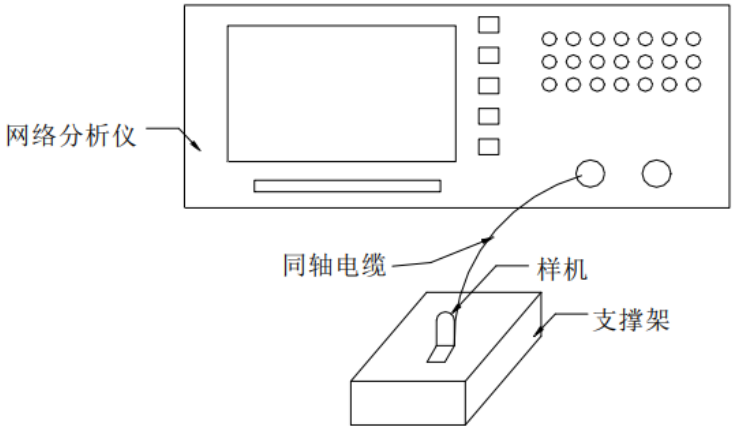


Figure 2 ANT static test connection method

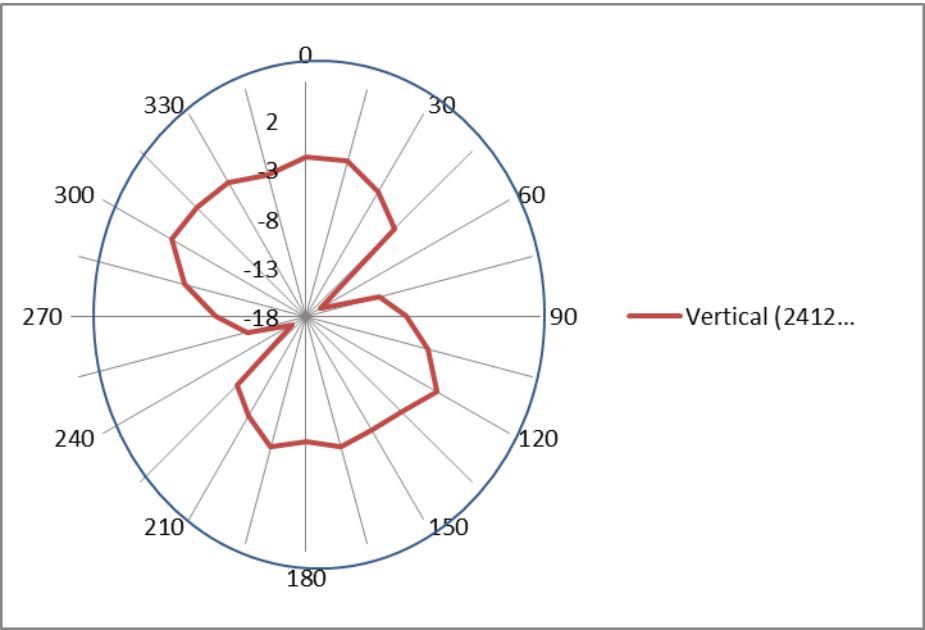
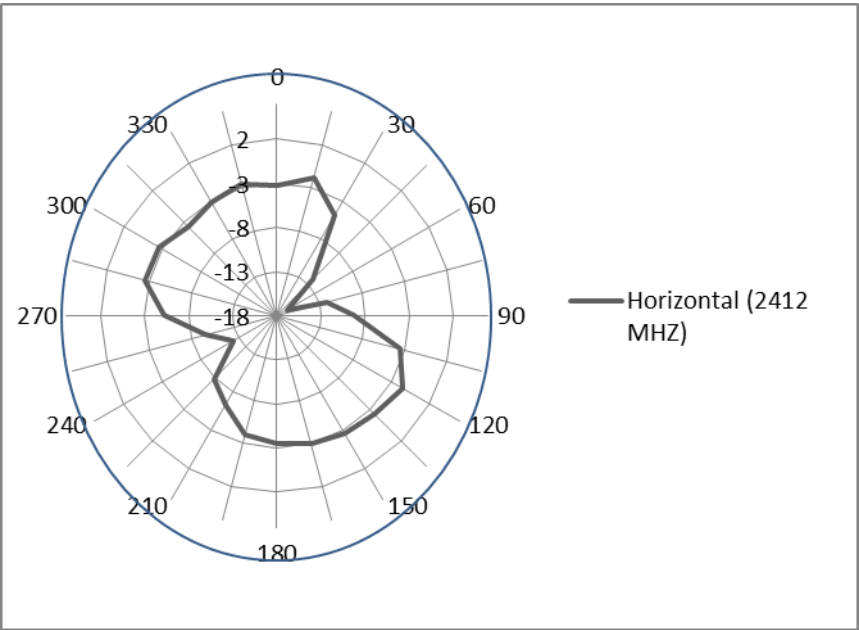
4. Antenna Radiation Pattern

Horizontal (2412 MHZ)

|                |       |       |       |       |        |       |
|----------------|-------|-------|-------|-------|--------|-------|
| Phi            | 0     | 60    | 120   | 180   | 240    | 300   |
| Max Gain (dBi) | -3.24 | -16.6 | -1.46 | -3.54 | -12.25 | -2.55 |

Vertical (2412 MHZ)

|                |      |        |       |       |        |       |
|----------------|------|--------|-------|-------|--------|-------|
| Phi            | 0    | 60     | 120   | 180   | 240    | 300   |
| Max Gain (dBi) | -1.8 | -16.25 | -2.55 | -5.23 | -16.34 | -2.88 |

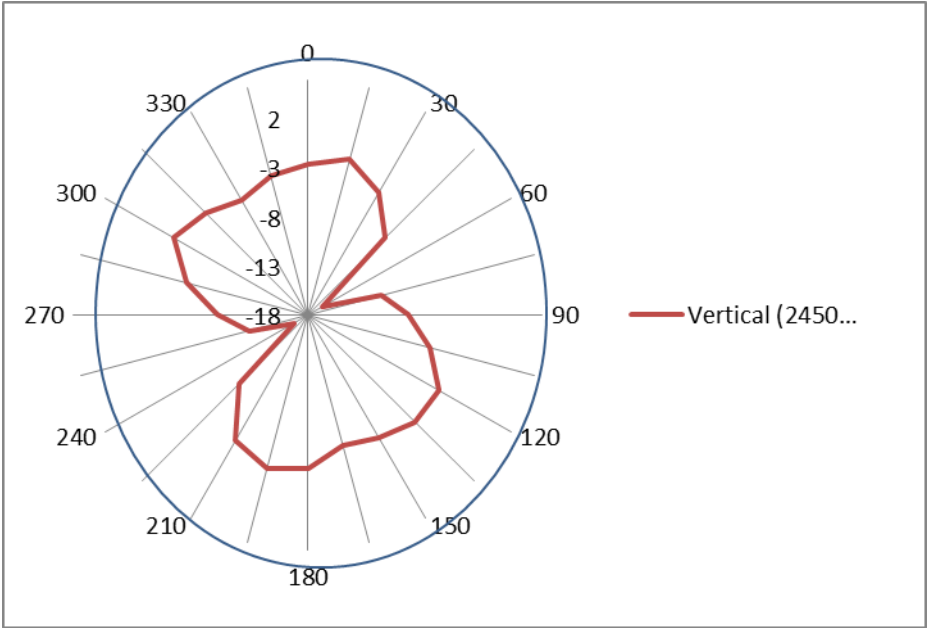
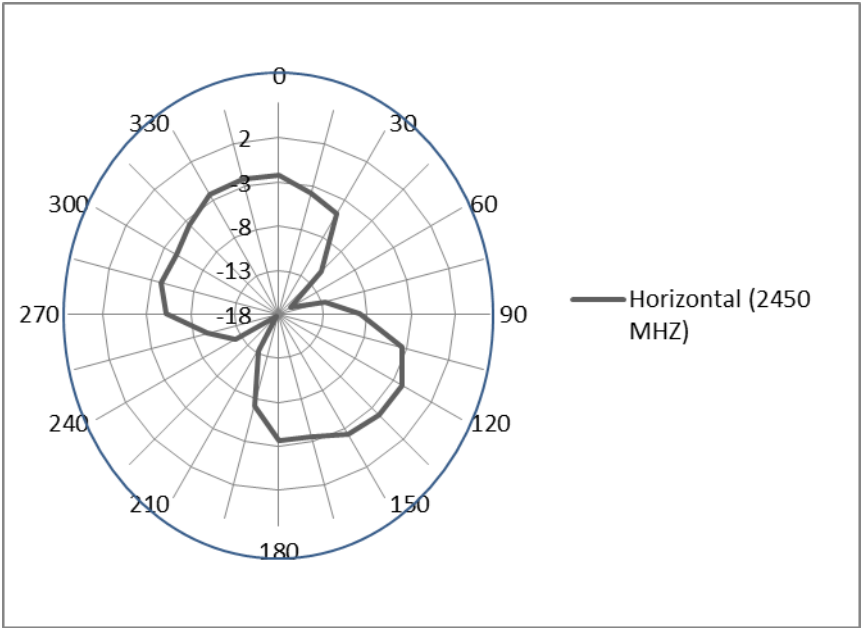


Horizontal (2450 MHz)

| Phi            | 0     | 60    | 120   | 180   | 240    | 300  |
|----------------|-------|-------|-------|-------|--------|------|
| Max Gain (dBi) | -2.24 | -16.4 | -1.87 | -3.64 | -12.25 | -4.5 |

Vertical (2450 MHz)

| Phi            | 0     | 60     | 120   | 180   | 240    | 300   |
|----------------|-------|--------|-------|-------|--------|-------|
| Max Gain (dBi) | -2.55 | -16.25 | -2.55 | -2.35 | -16.34 | -2.42 |

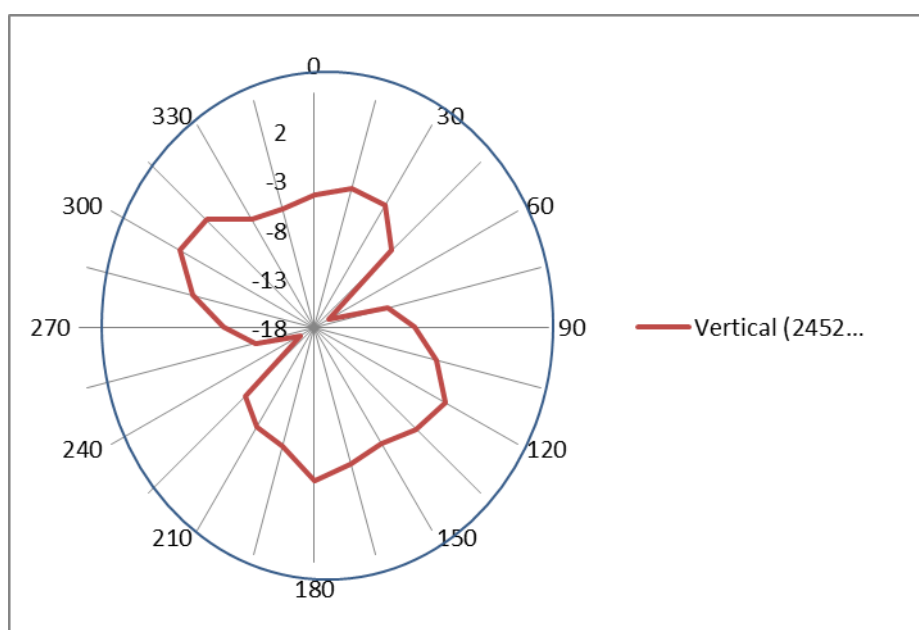
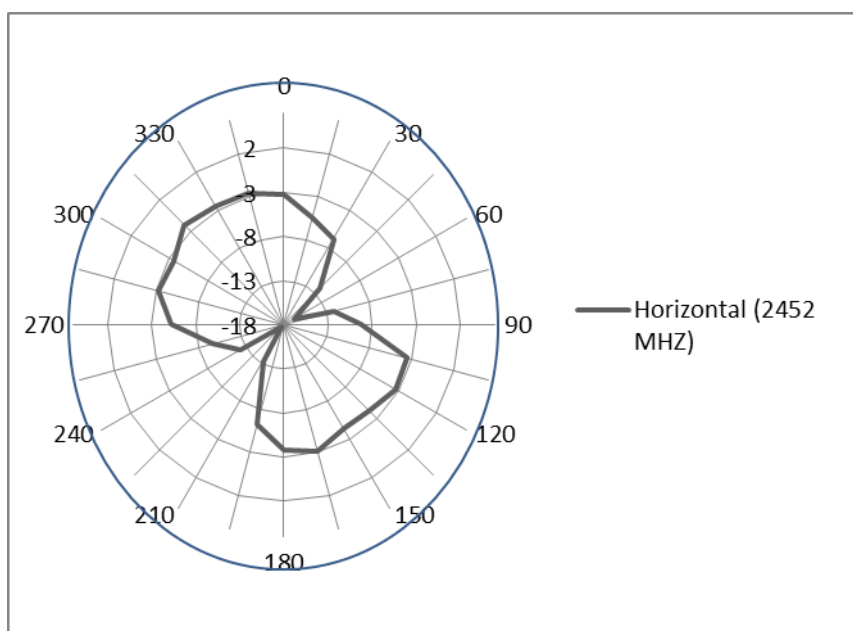


Horizontal (2452MHZ)

| Phi            | 0     | 60    | 120  | 180   | 240    | 300   |
|----------------|-------|-------|------|-------|--------|-------|
| Max Gain (dBi) | -3.23 | -16.6 | -3.4 | -3.75 | -12.25 | -3.55 |

Vertical (2452 MHz)

| Phi            | 0     | 60     | 120   | 180   | 240    | 300   |
|----------------|-------|--------|-------|-------|--------|-------|
| Max Gain (dBi) | -4.45 | -16.25 | -2.55 | -2.32 | -16.34 | -2.39 |



Manufacturer: Mecca Electronics Co. Ltd.

Address: Gangyang Industrial Area, Zhangmutou Town, Dongguan, China