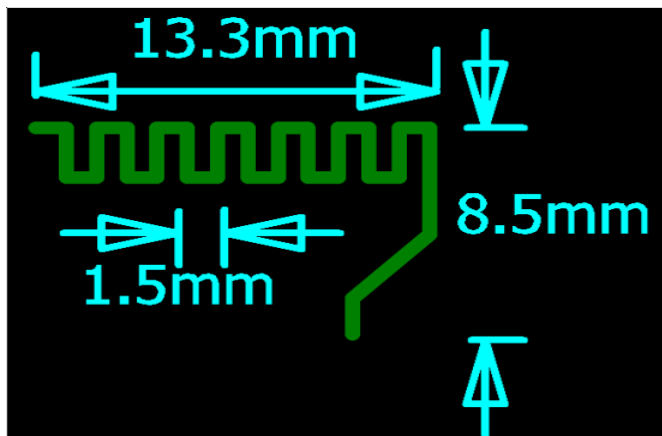


# Antenna Specification

## Specifications Summary

| ITEM                 | SPEC.            |          |
|----------------------|------------------|----------|
| Model Name           | IBM 2.4 GHz      |          |
| Center Frequency     | 2402 MHz         | 2.24 dBi |
|                      | 2441 MHz         | 2.20 dBi |
|                      | 2480 MHz         | 1.81 dBi |
| MAX. GAIN            | 2.24 dBi         |          |
| Polarization         | Horizontal       |          |
| Azimuth Beam Pattern | Omni-directional |          |
| Impedance            | 50 $\Omega$      |          |
| Antenna Length       | 3.2cm            |          |

## Antenna Photo & Length (mm)



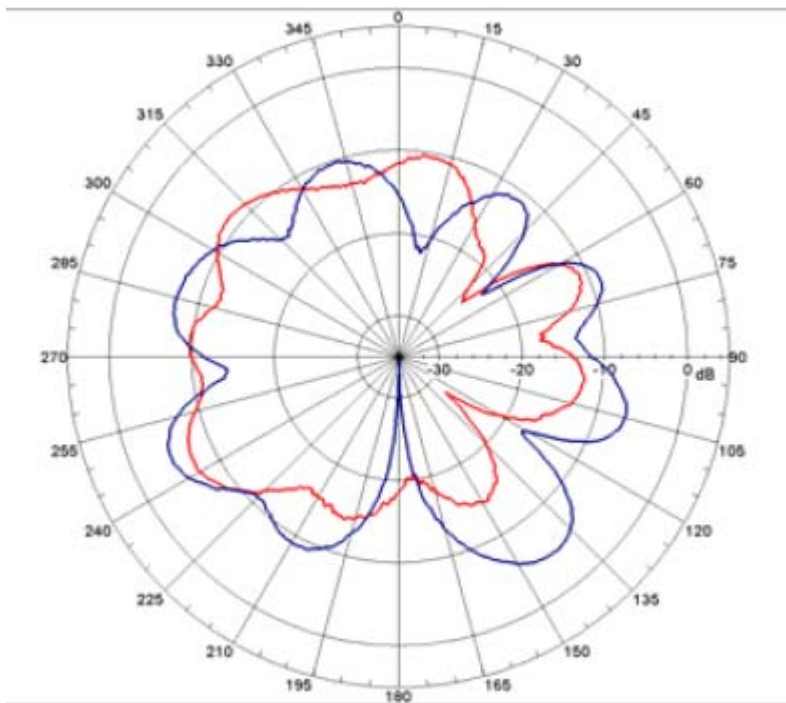
|                 |                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------|
| Test Address    | 16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien 303, Taiwan                 |
| Test Date       | 2009-04-14                                                                                |
| Test Instrument | vector network analyzer - R&S ZVB20                                                       |
| Part Number     | E-1.0                                                                                     |
| Manufacture     | COMPX Semiconductor Corp                                                                  |
| Address         | No.27,gaoxin North Sith Road,Songpingshan Community,Xili STREET,Nanshan District,Shenzhen |

## 1. Main antenna : 2402 MHz

(green line: horizontal power)

(red line: vertical power)

### 1.1 Horizontal



Frequency(MHZ): **2402**

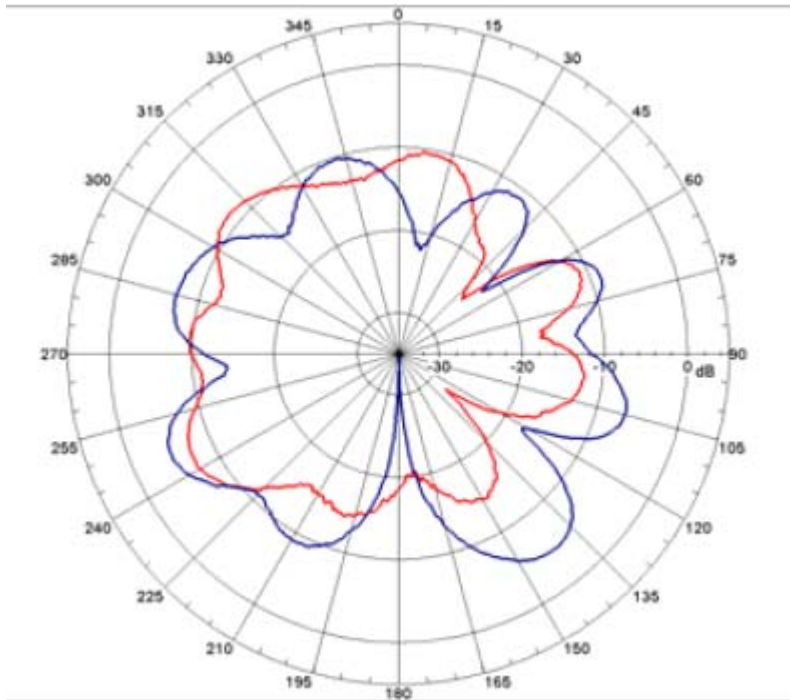
Antenna Polarity: **Horizontal**

Maximum Value(dBi): **2.24**

Average Gain(dBi) : **-2.48**

Minimum Gain(dBi): **-55.18**

### 1.2 Vertical



Frequency(MHZ):       **2402**

Antenna Polarity:       **Vertical**

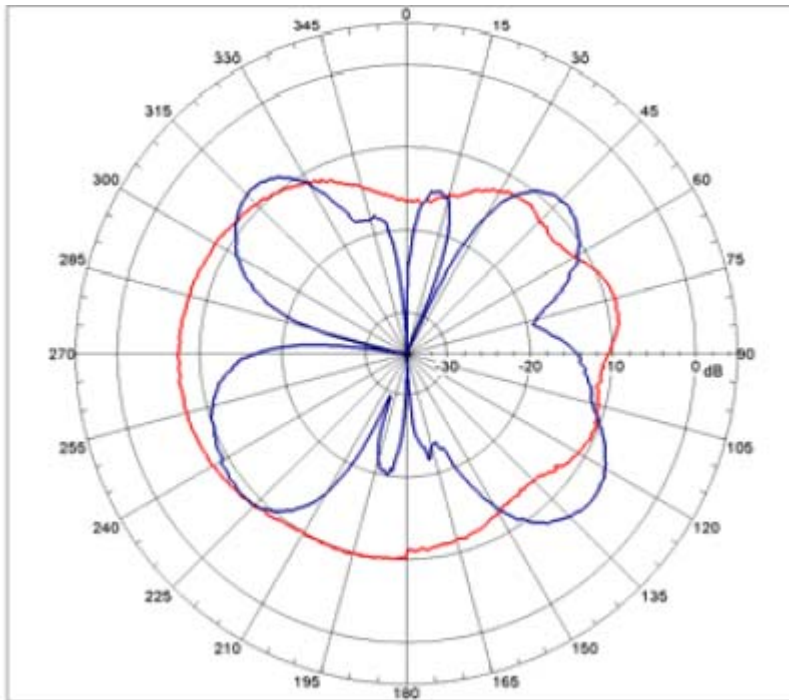
Maximum Value(dBi):   **-4.51**

Average Gain(dBi) :   **-8.98**

Minimum Gain(dBi):   **-62.3**

## **2. Main antenna : 2441 MHz**

### **2.1 Horizontal**



Frequency(MHZ):      **2441**

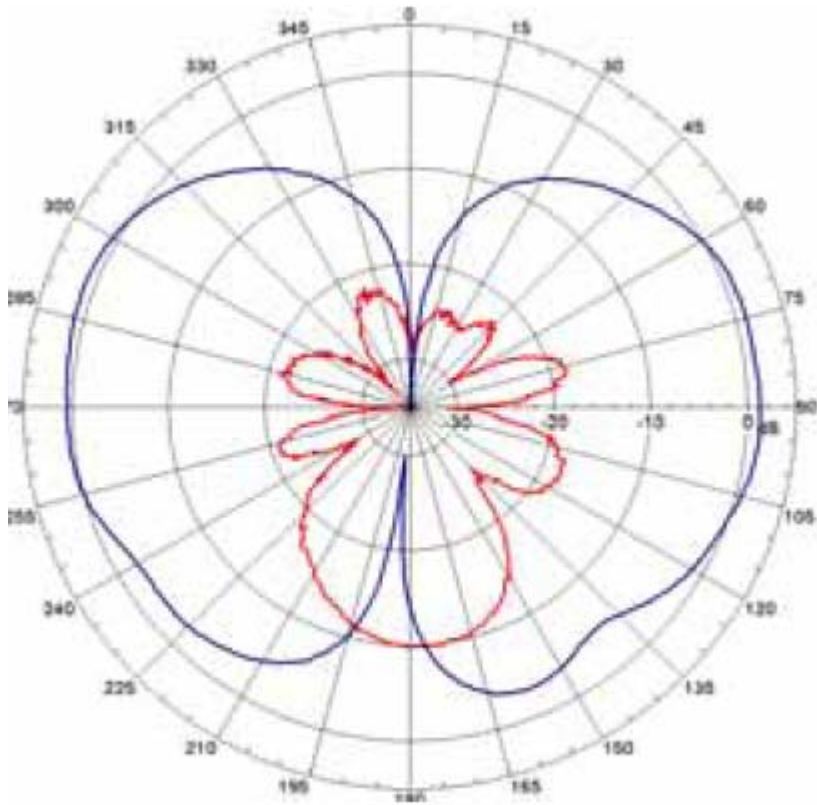
Antenna Polarity:      **Horizontal**

Maximum Value(dBi):   **2.20**

Average Gain(dBi) :   **-2.44**

Minimum Gain(dBi):   **-64.78**

## **2.2 Vertical**



Frequency(MHZ):      **2441**

Antenna Polarity:      **Vertical**

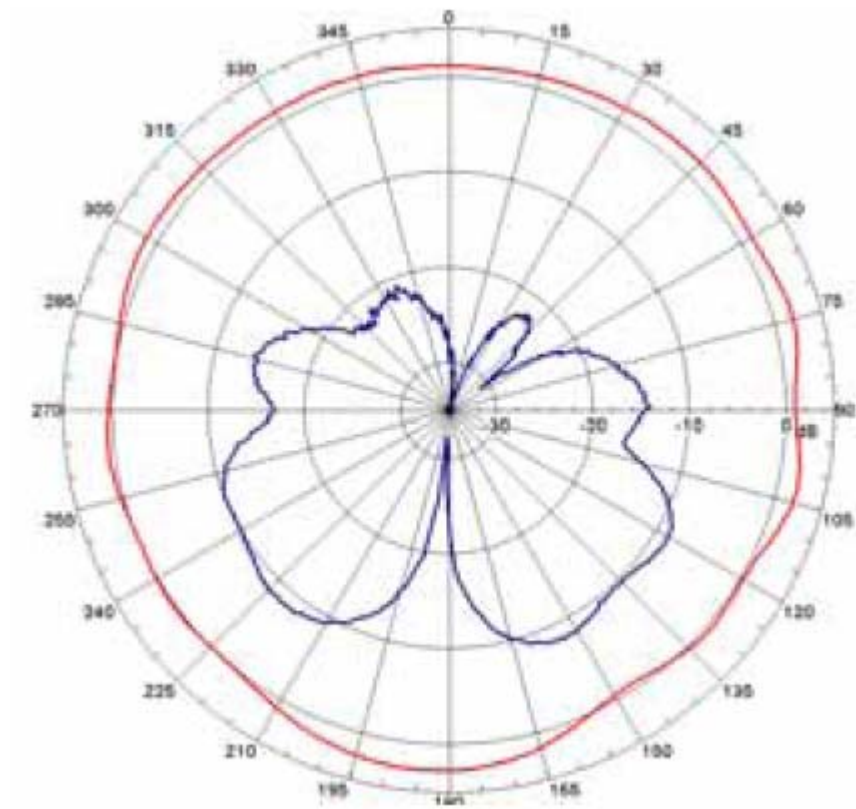
Maximum Value(dBi):   **-4.29**

Average Gain(dBi) :    **-8.41**

Minimum Gain(dBi):    **-47.4**

## **2. Main antenna : 2480 MHz**

### **2.1 Horizontal**



Frequency(MHZ):      **2480**

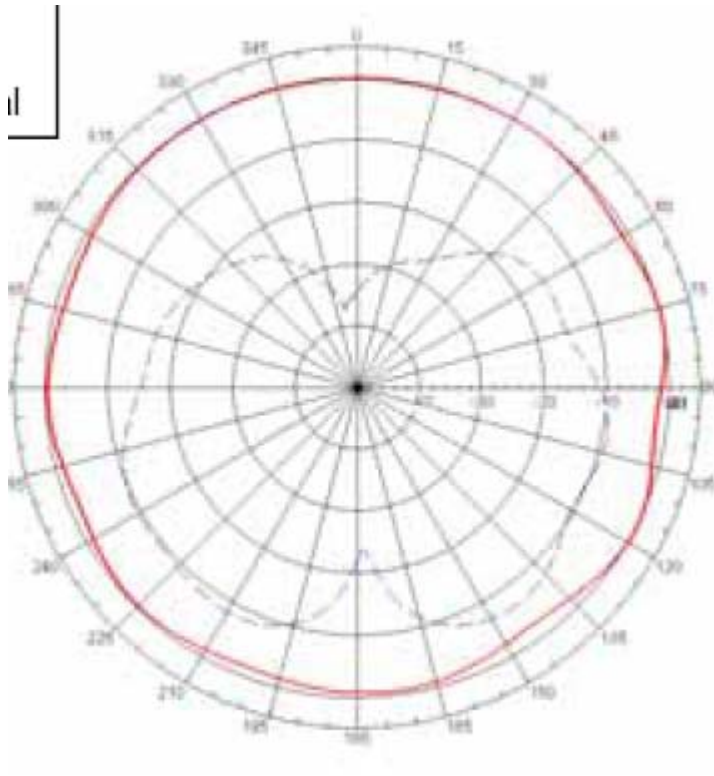
Antenna Polarity:      **Horizontal**

Maximum Value(dBi):   **1.81**

Average Gain(dBi) :   **-4.34**

Minimum Gain(dBi):   **-55.4**

**2.2 Vertical**



Frequency(MHZ): **2480**

Antenna Polarity: **Vertical**

Maximum Value(dBi): **-4.95**

Average Gain(dBi) : **-14.06**

Minimum Gain(dBi): **-64.00**