

Cisco CM66 Antenna Test Report in ETS Chamber

2021/10/28

Provided by Chikang Su



Antenna Type and Placement

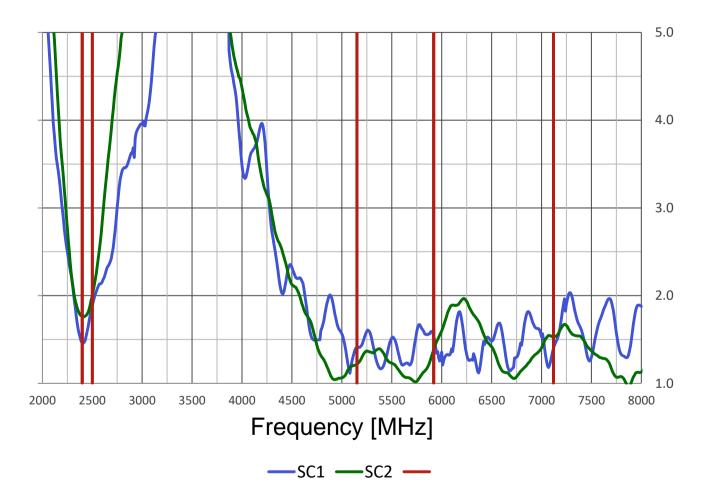
| Frequency combination | | ANT Type | Polarization |
|-----------------------|-----------------------------|----------------------------|--------------|
| Scanning (2/5/6G) | 2.4~2.5GHz 5.15~7.125GHz | PIFA (30 x 20 x 8.0 mm) | Mixed |
| BLE | 2.4GHz | PIFA (30 x 14 x 8.6 mm) | Mixed |

Scanning

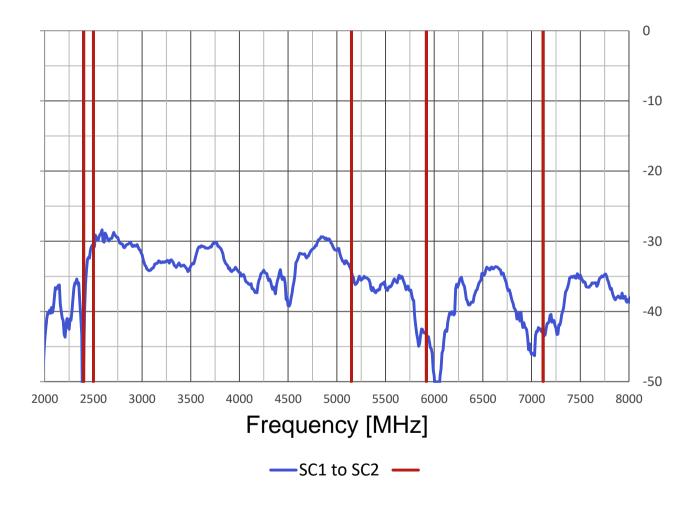
- **Maximum VSWR**
 - 2.0:1 on 2.4GHz / 1.6:1 on 5GHz / 2.0:1 on 6GHz
- Minimum Isolation
 - 30.8dB on 2.4GHz / 34.8dB on 5_6GHz/ 36.8dB on 6GHz
- Average Efficiency
 - ~62% on 2.4GHz / ~58% on 5GHz / ~58% on 6GHz
- Peak Gain
 - 3.3dBi on 2.4GHz / 4.0dBi on 5GHz / 5.3dBi on 6GHz



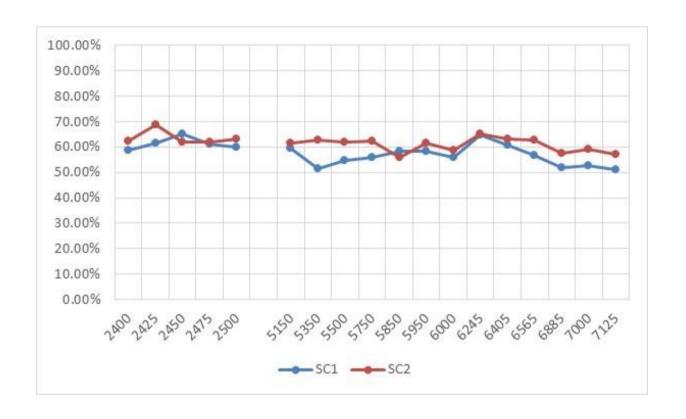
VSWR Scanning



Isolation Scanning

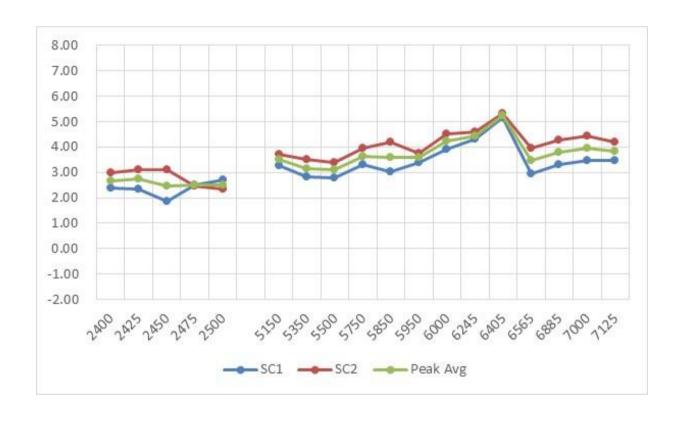


Efficiency Scanning



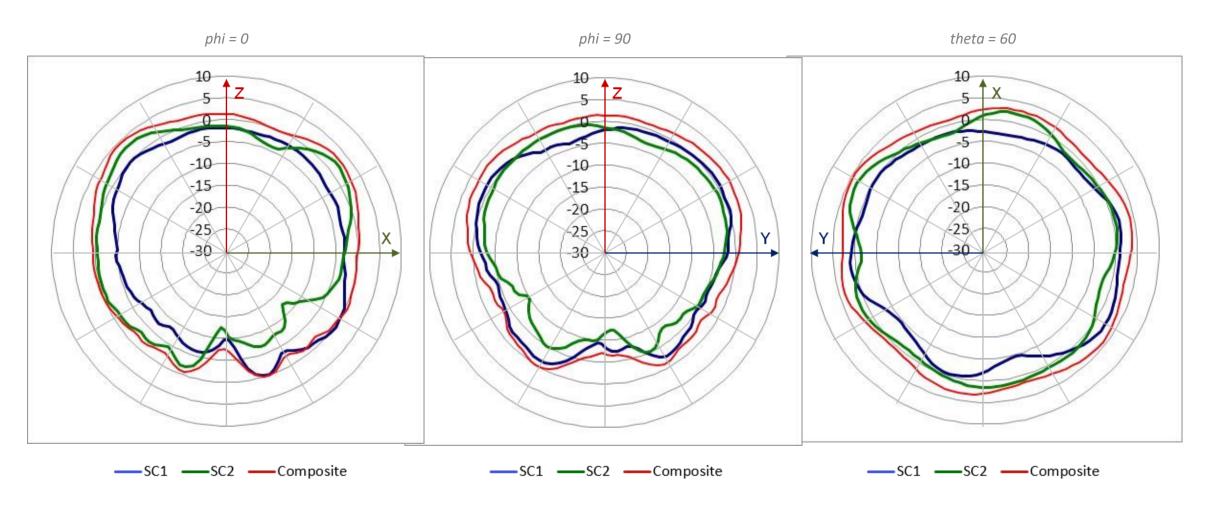


Peak Gain Scanning



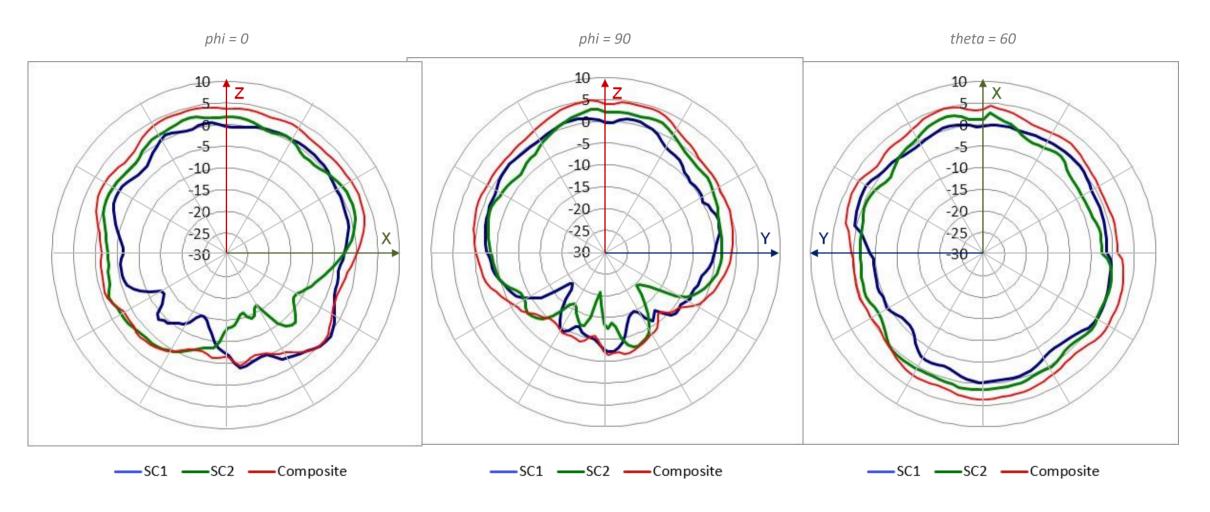


Realized Gain Pattern Scanning @2450MHz



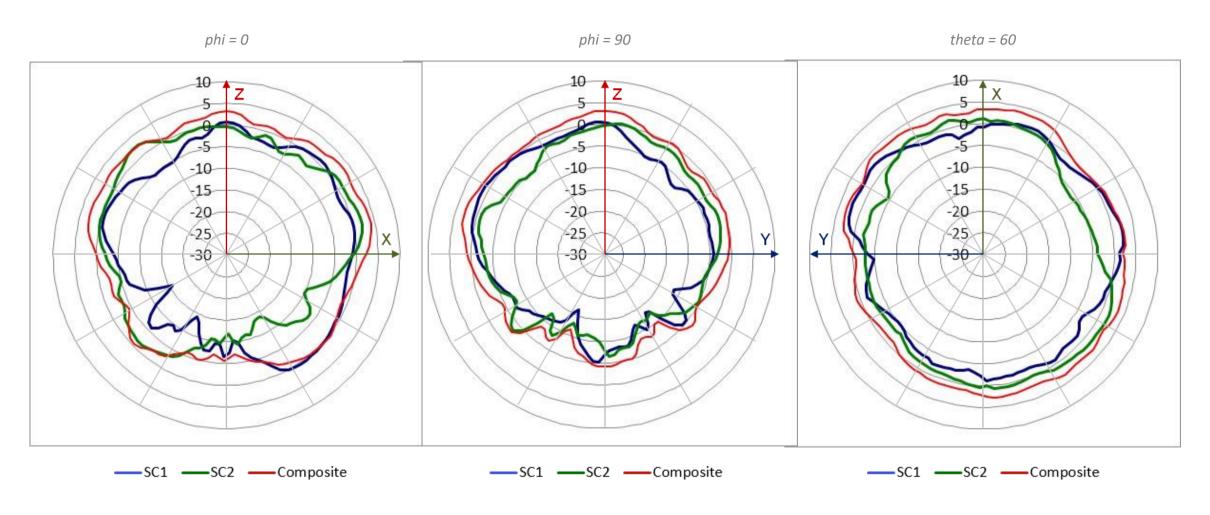


Realized Gain Pattern Scanning @5500MHz





Realized Gain Pattern Scanning Realized Gain Pattern @6565MHz



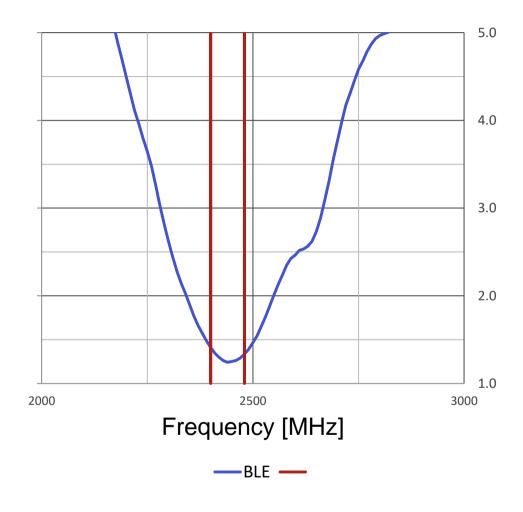


BLE

- Maximum VSWR
 - 1.5:1 on 2.4GHz
- Average Efficiency
 - ~58% on 2.4GHz
- Peak Gain
 - 3.8dBi on 2.4GHz

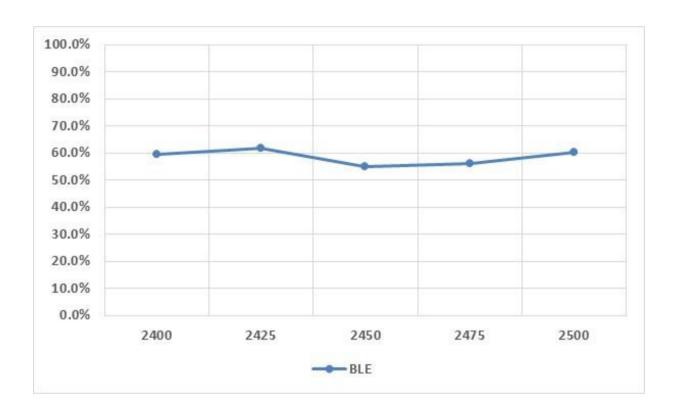


VSWR BLE



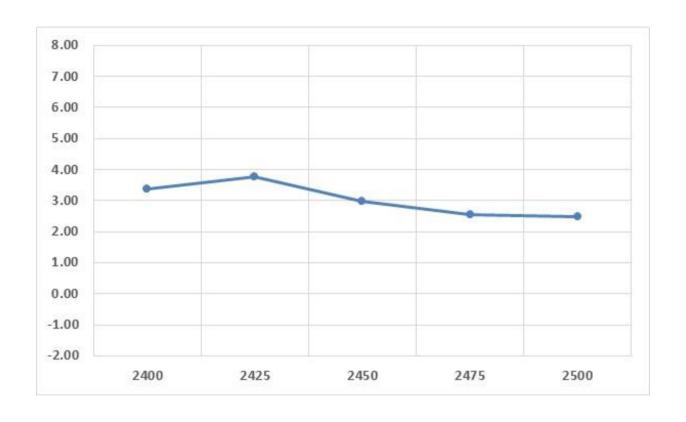


Efficiency BLE





Peak Gain BLE





Realized Gain Pattern BLE Realized Gain Pattern @2450MHz

