

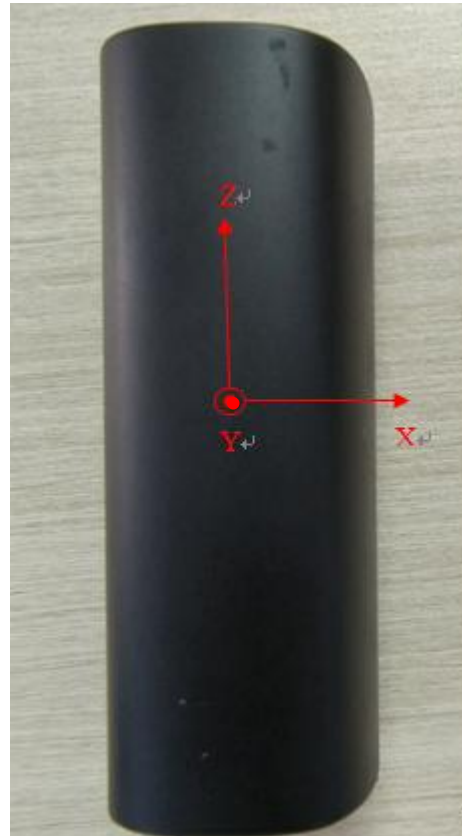
Report for Broadcom

By Alfred Grau

Tested Products.

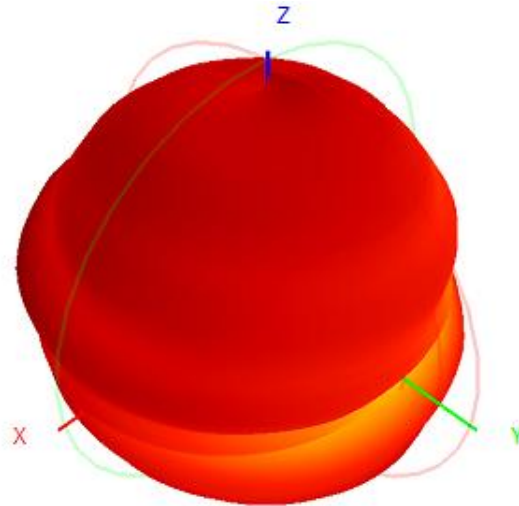
- Antenna 1: **FPC** antenna.
 - Frequency =2402MHz
 - Frequency =2404MHz
 - Frequency =2440MHz
 - Frequency =2441MHz
 - Frequency =2472MHz
 - Frequency =2480MHz

Coordinate System Reference: Antenna-RX

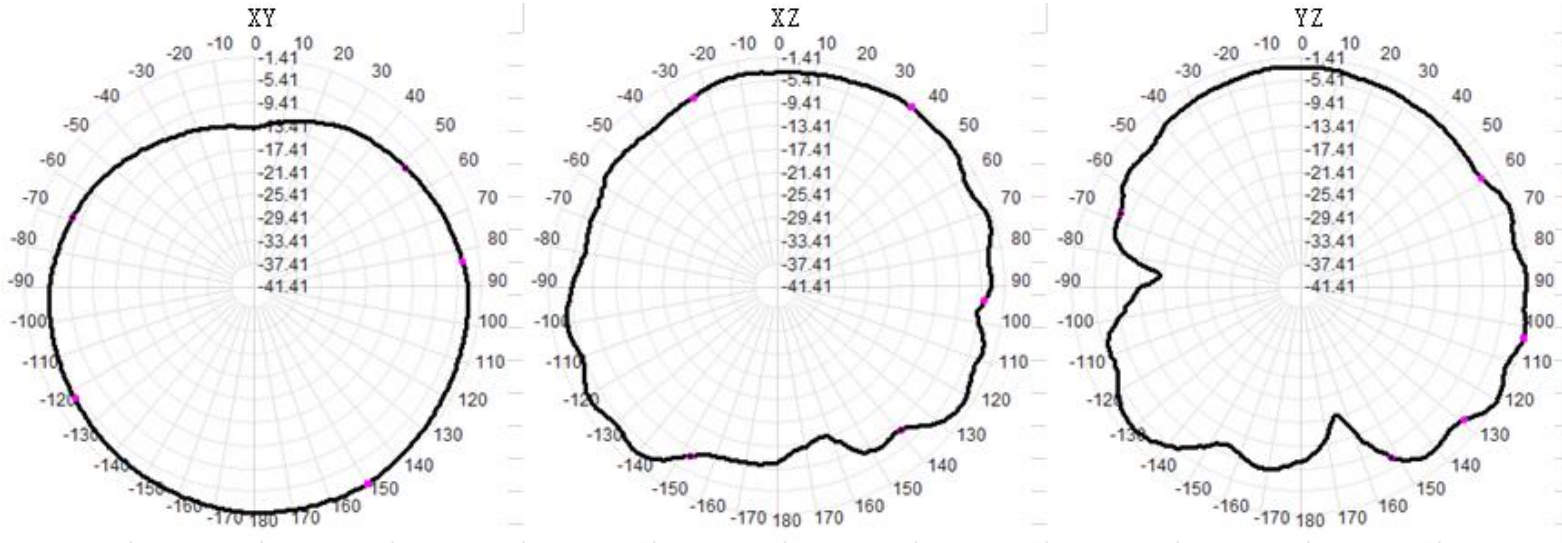


Radiation pattern: Antenna 3D Pattern at $f = 2402\text{MHz}$

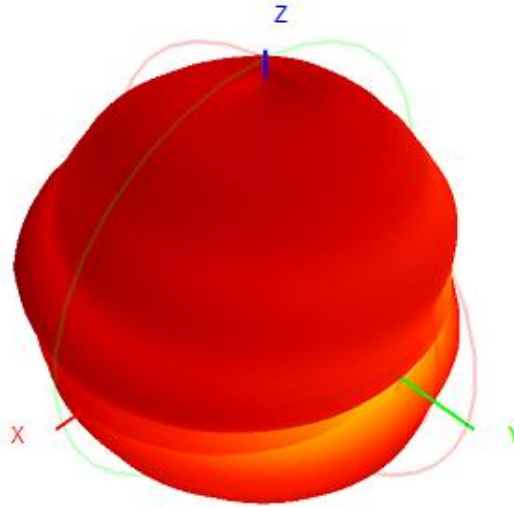
Coordinate System Reference: Antenna-RX



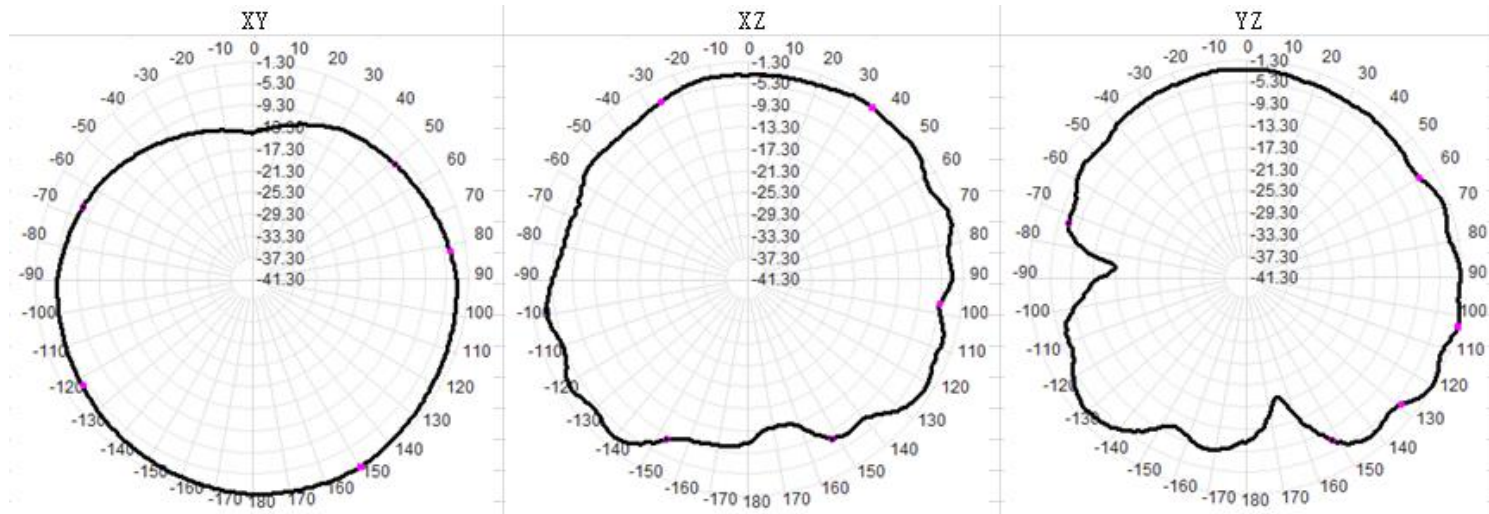
Radiation pattern: Antenna 2D Pattern at $f = 2402\text{MHz}$



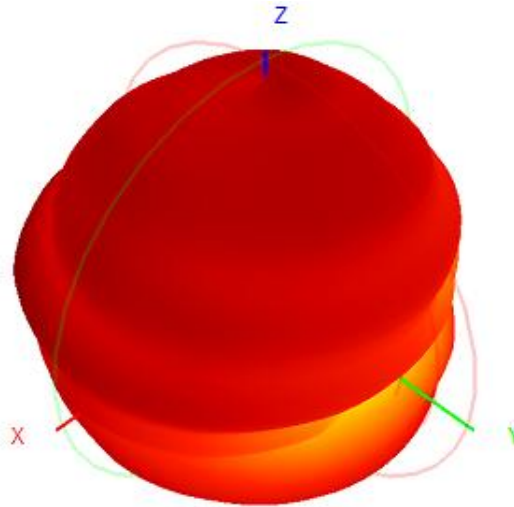
Radiation pattern: Antenna 3D Pattern at $f = 2404\text{MHz}$



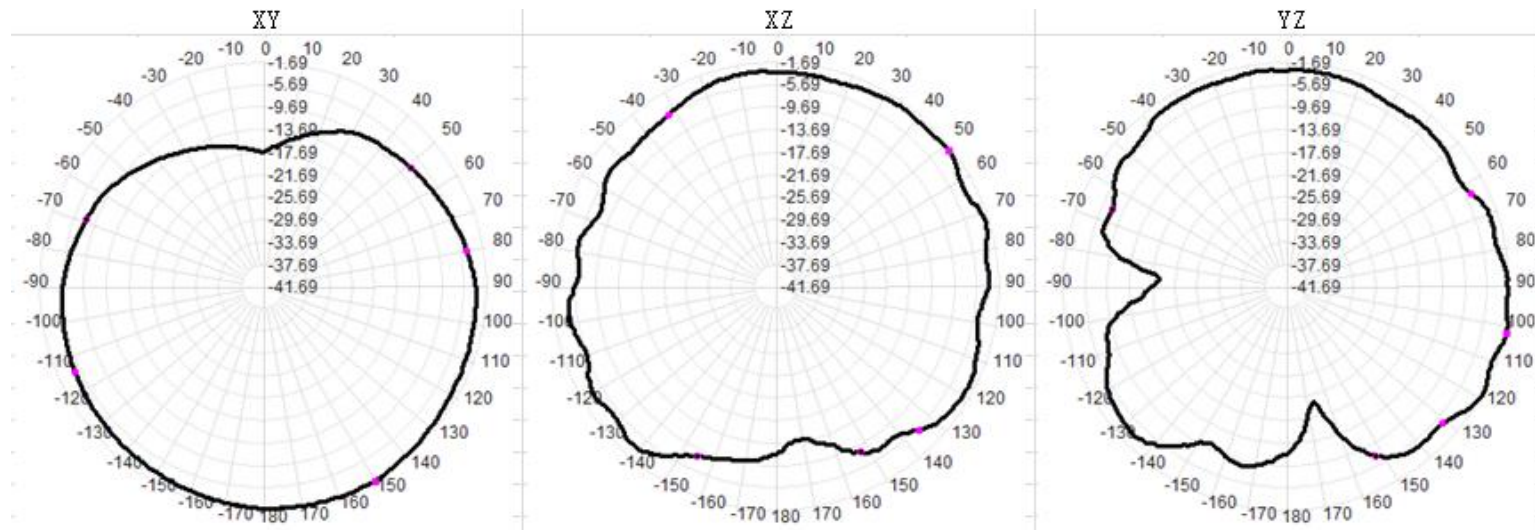
Radiation pattern: Antenna 2D Pattern at $f = 2404\text{MHz}$



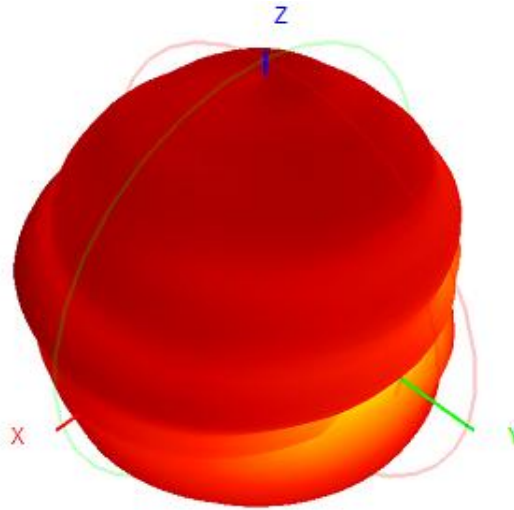
Radiation pattern: Antenna 3D Pattern at $f = 2440\text{MHz}$



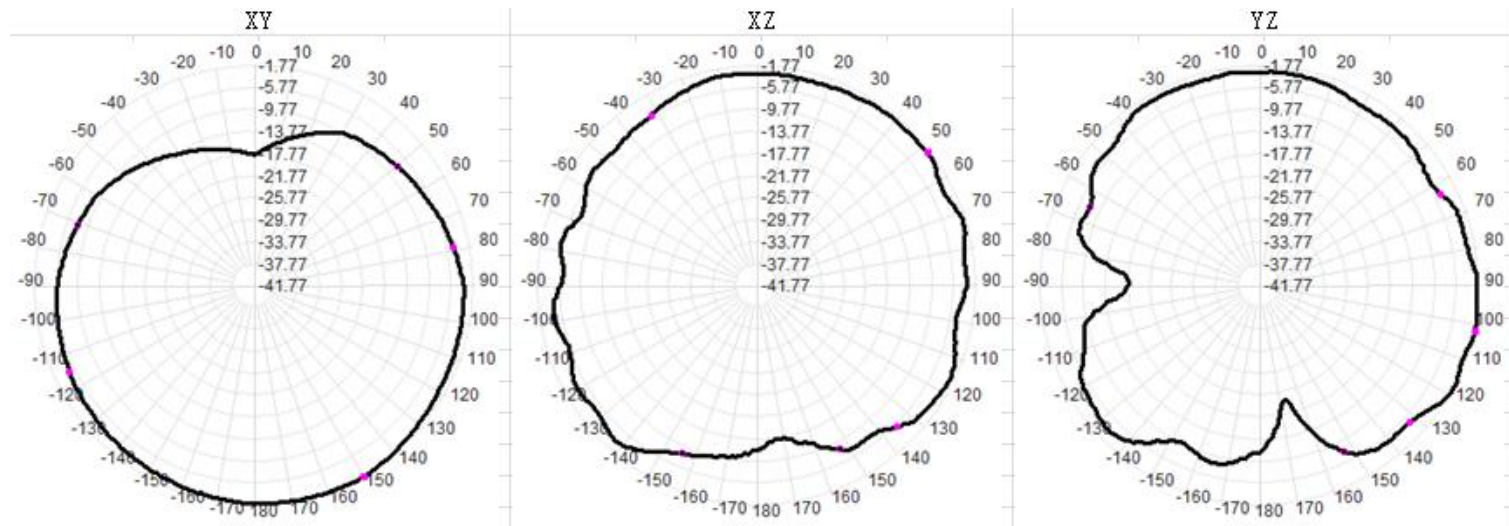
Radiation pattern: Antenna 2D Pattern at $f = 2440\text{MHz}$



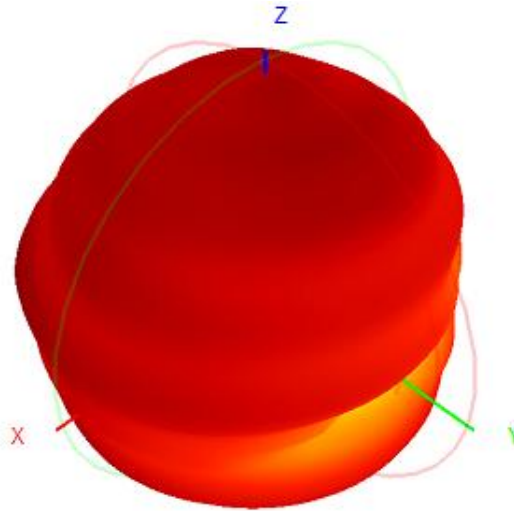
Radiation pattern: Antenna 3D Pattern at $f = 2441\text{MHz}$



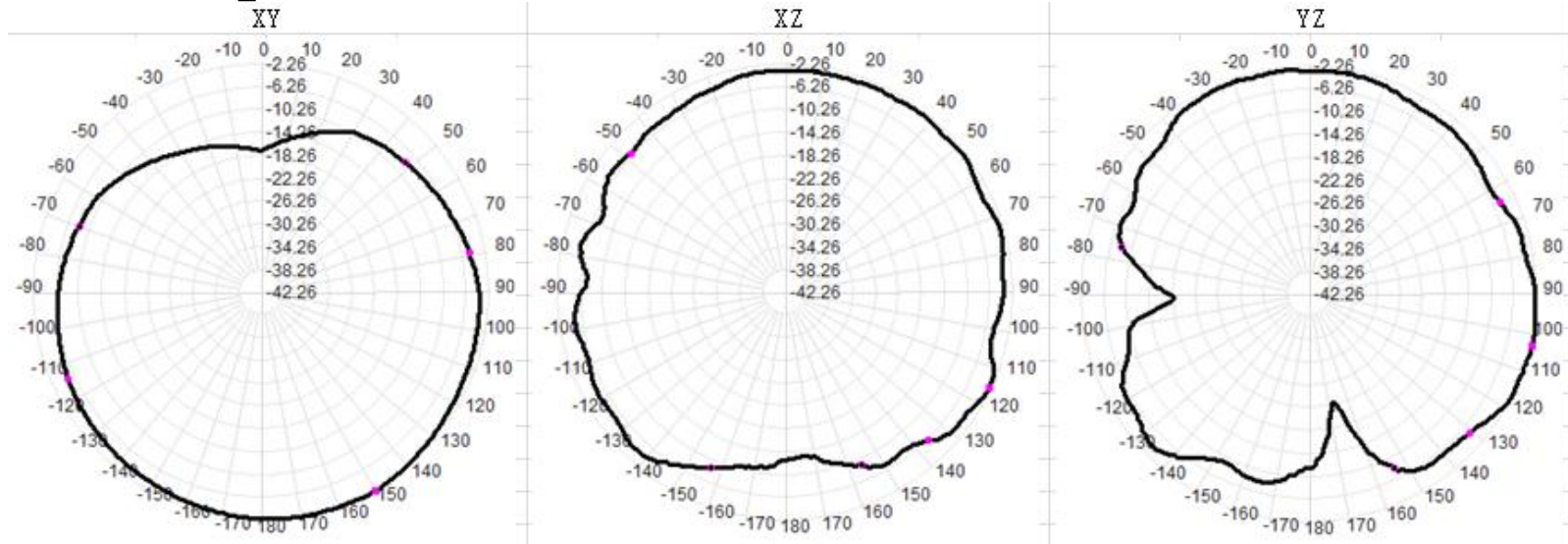
Radiation pattern: Antenna 2D Pattern at $f = 2441\text{MHz}$



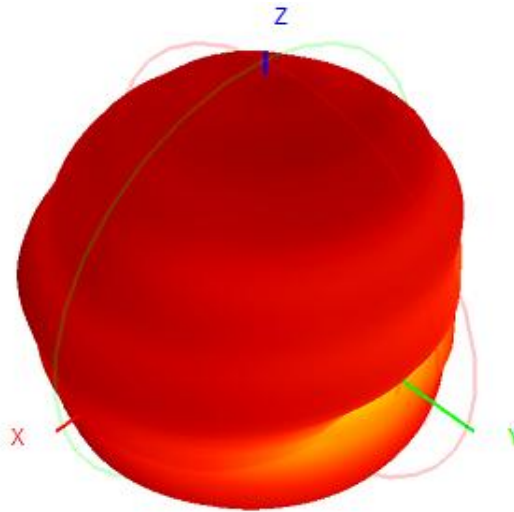
Radiation pattern: Antenna 3D Pattern at $f = 2472\text{MHz}$



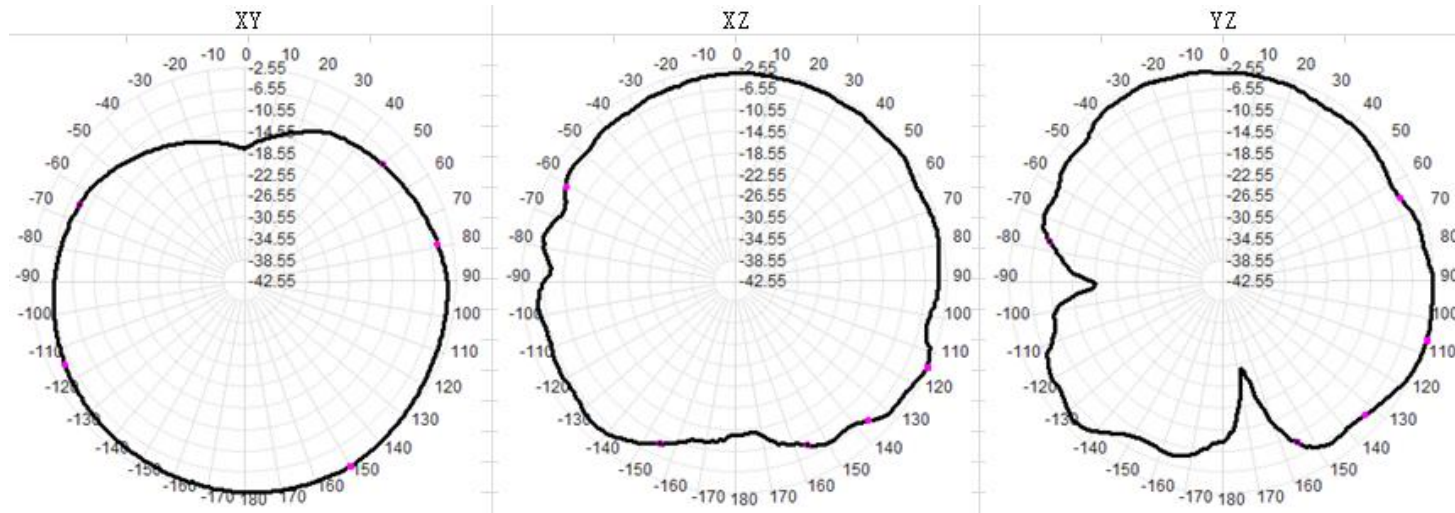
Radiation pattern: Antenna 2D Pattern at $f = 2472\text{MHz}$



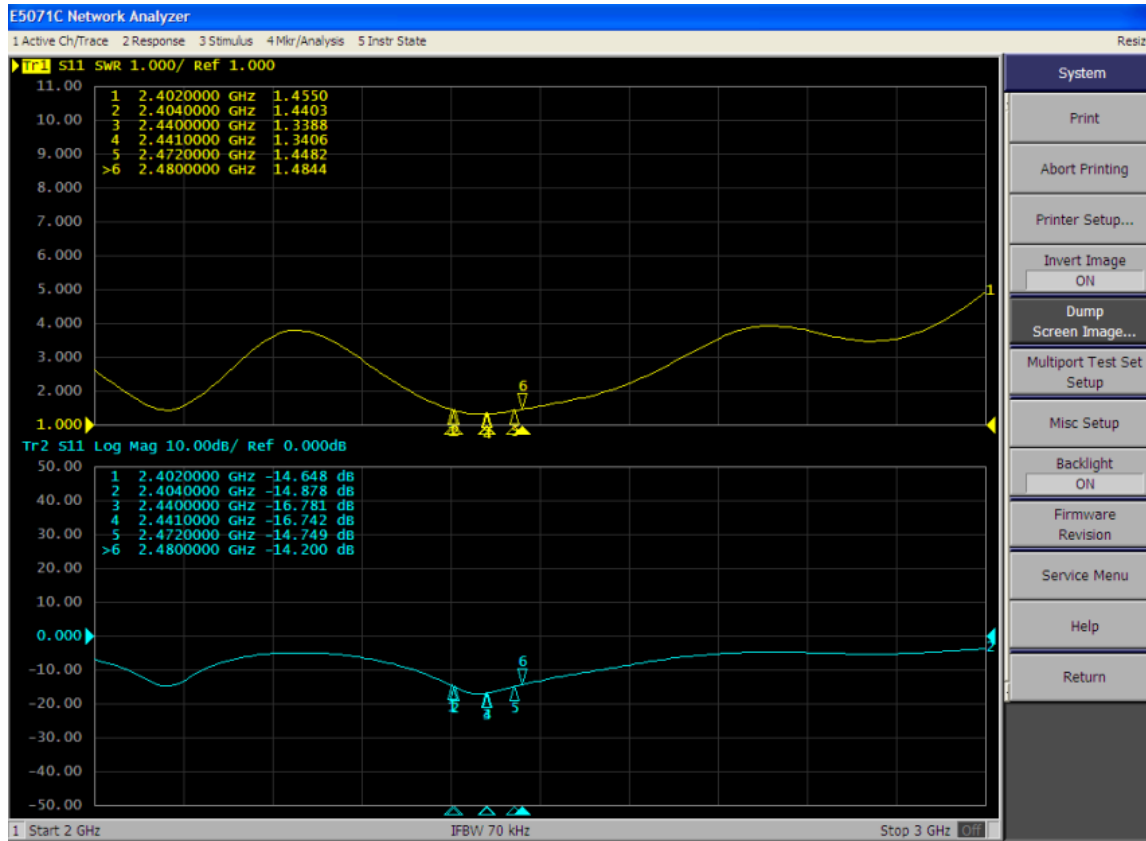
Radiation pattern: Antenna 3D Pattern at $f = 2480\text{MHz}$



Radiation pattern: Antenna 2D Pattern at $f = 2480\text{MHz}$



Return Loss: Antenna1



Measurements summary

| Frequency ID | 1 | 2 | 3 | 4 | 5 | 6 |
|-----------------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz) | 2402.0 | 2404.0 | 2440.0 | 2441.0 | 2472.0 | 2480.0 |
| Gain (dBi) | 0.11 | 0.22 | 0.24 | 0.25 | 0.13 | 0.21 |
| Efficiency (%) | 43.02 | 43.82 | 46.36 | 44.88 | 42.23 | 41.30 |

FPCantenna : Phosphor copper +PCB/OD=0.81mm/ Line L=75mm/IPEX(third generation)/ Black /2.4G/T=0.2mm/ AN2400-PCB52419

