



PM6264S(XGS5244B) Antenna Test Report

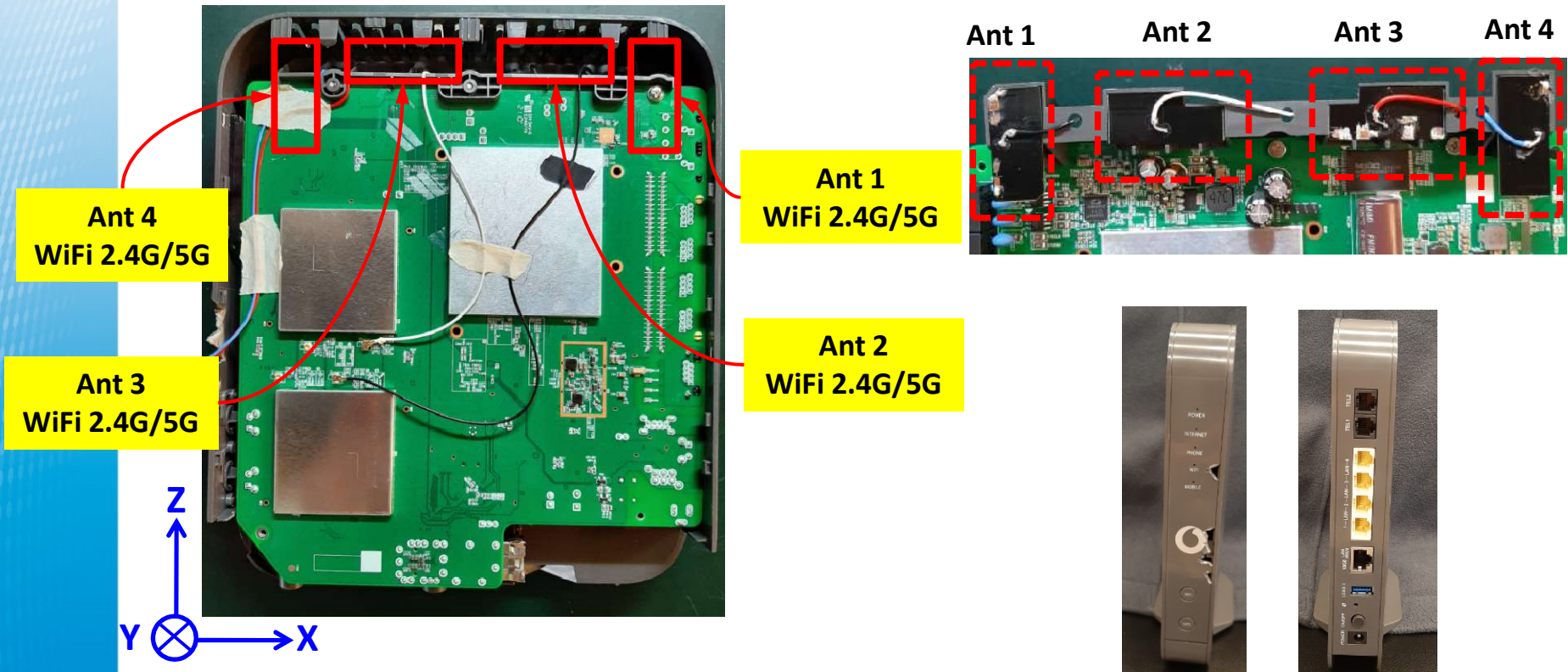


Outline

- Antenna Structure & Placement
- Return Loss
- Isolation
- Radiation Pattern
- System Coverage
- Peak Gain & Efficiency

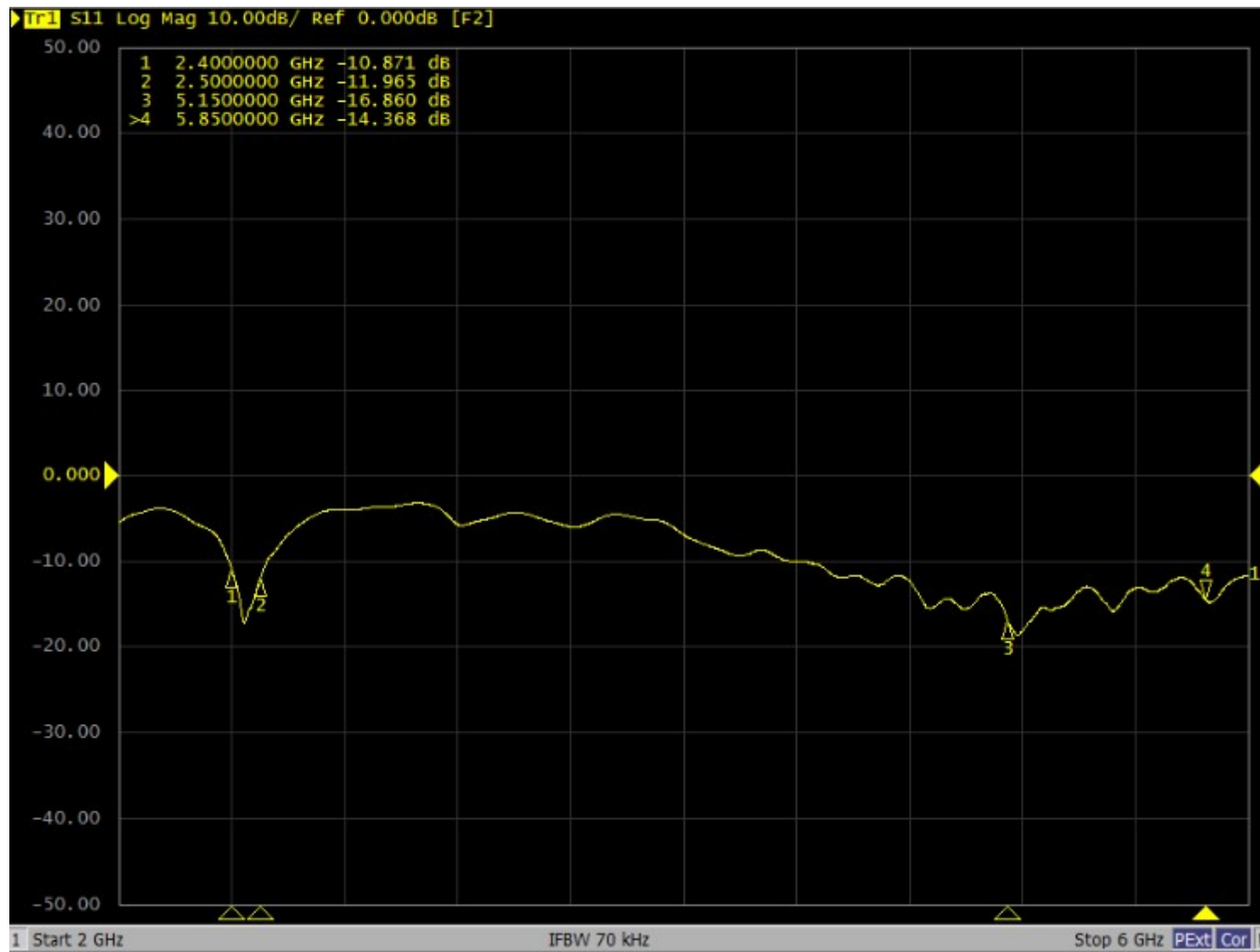
Antenna Vendor: HLtronics

Antenna Structure & Placement

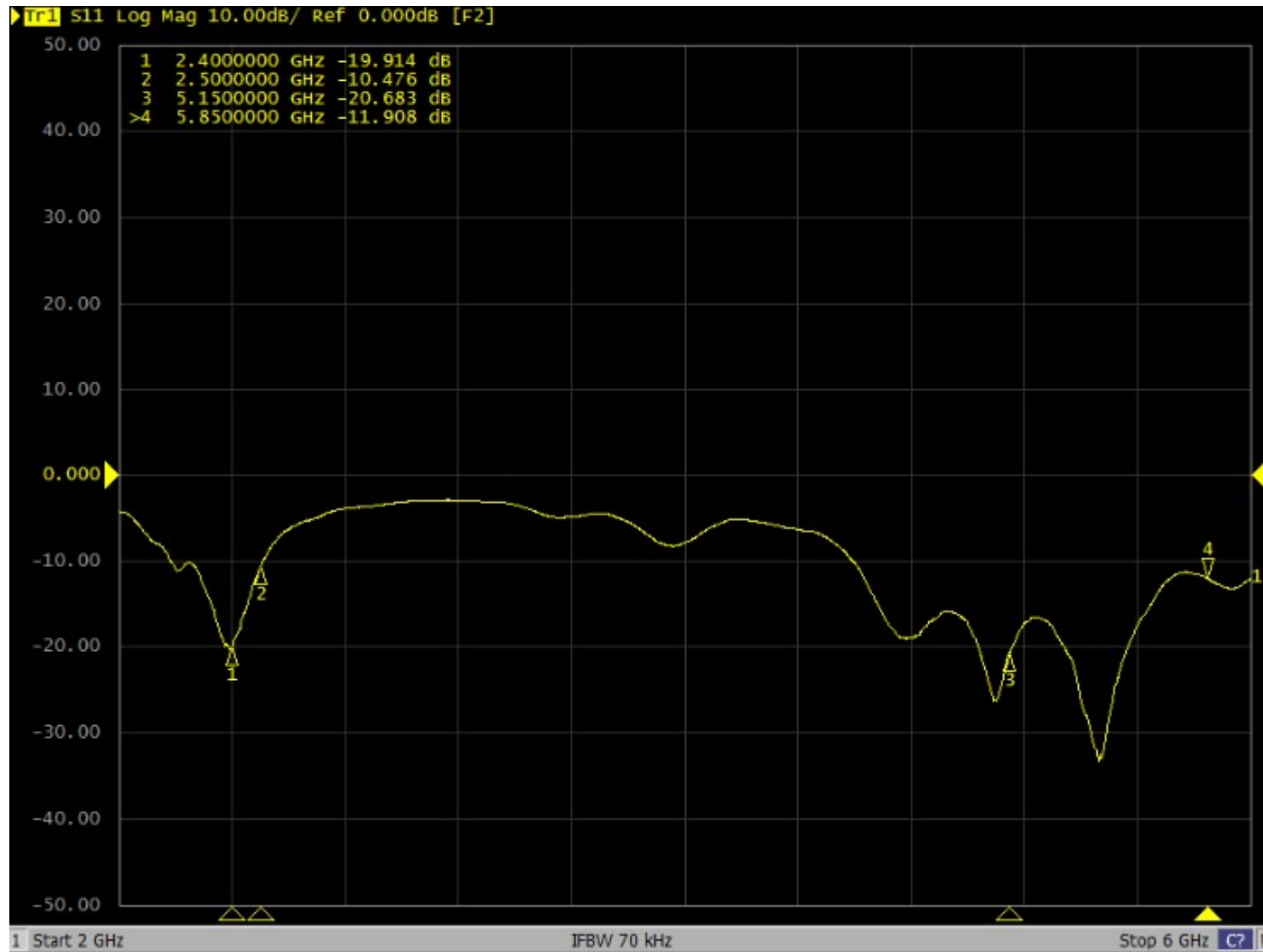


Ant No.	Operating Band	Type	Material	Feeding	Dimension
Ant 1	WiFi 2.4G/5G	Dipole	PCB	Cable	31(L) x 14(W) x 0.6(T) mm ³
Ant 2	WiFi 2.4G/5G	Dipole	PCB	Cable	31(L) x 14(W) x 0.6(T) mm ³
Ant 3	WiFi 2.4G/5G	Dipole	PCB	Cable	31(L) x 14(W) x 0.6(T) mm ³
Ant 4	WiFi 2.4G/5G	Dipole	PCB	Cable	31(L) x 14(W) x 0.6(T) mm ³

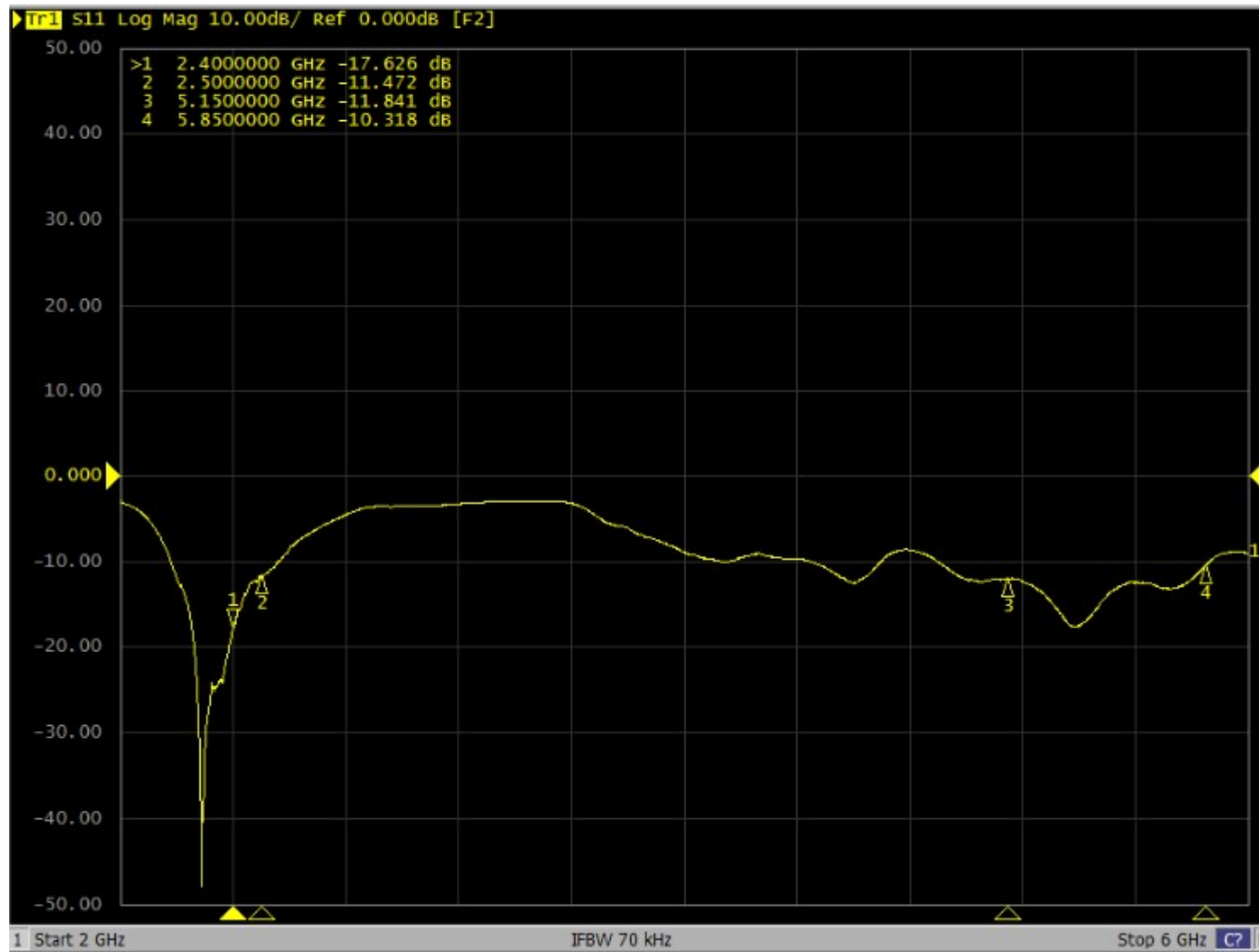
Return Loss – Ant 1 WiFi 2.4G/5G



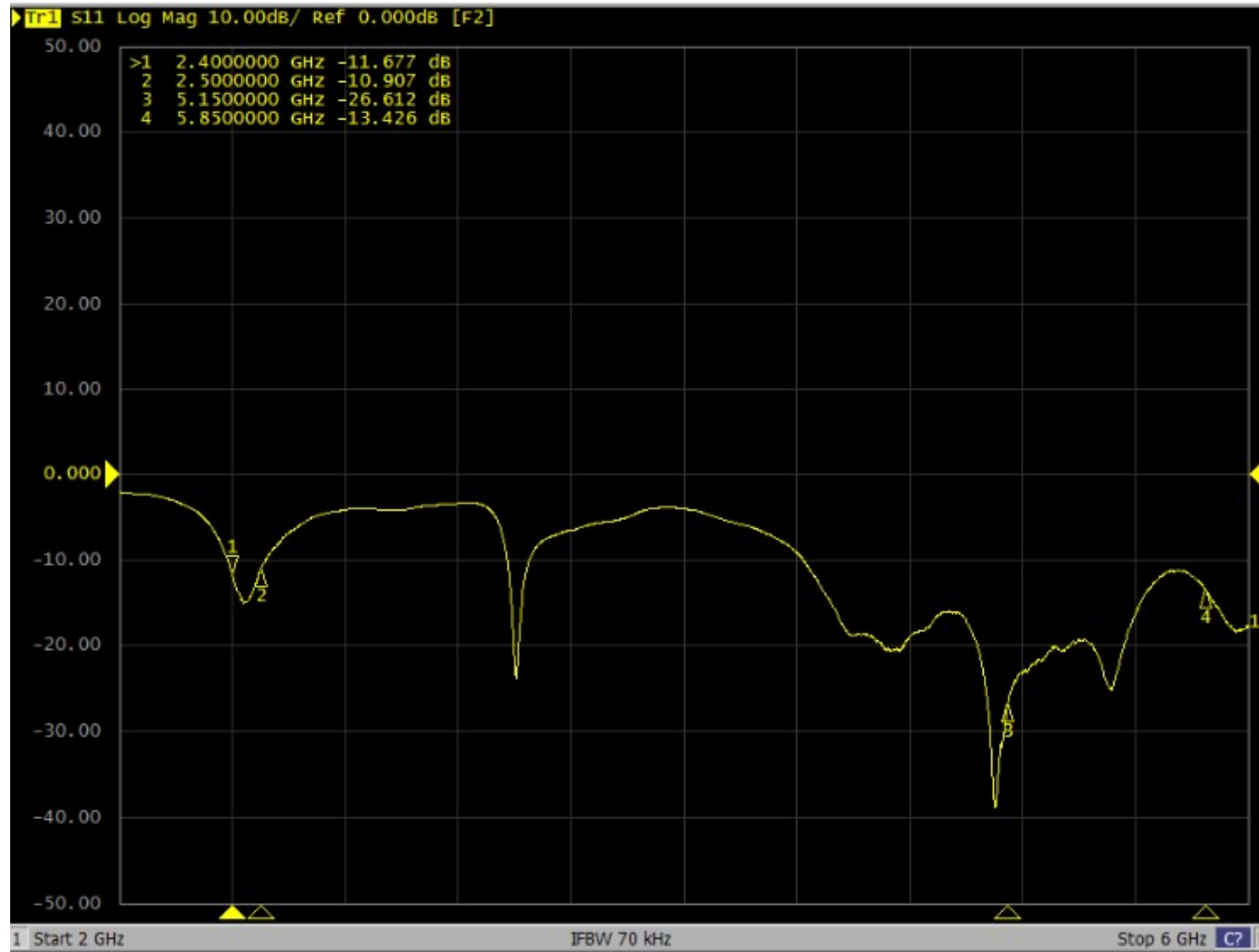
Return Loss – Ant 2 WiFi 2.4G/5G



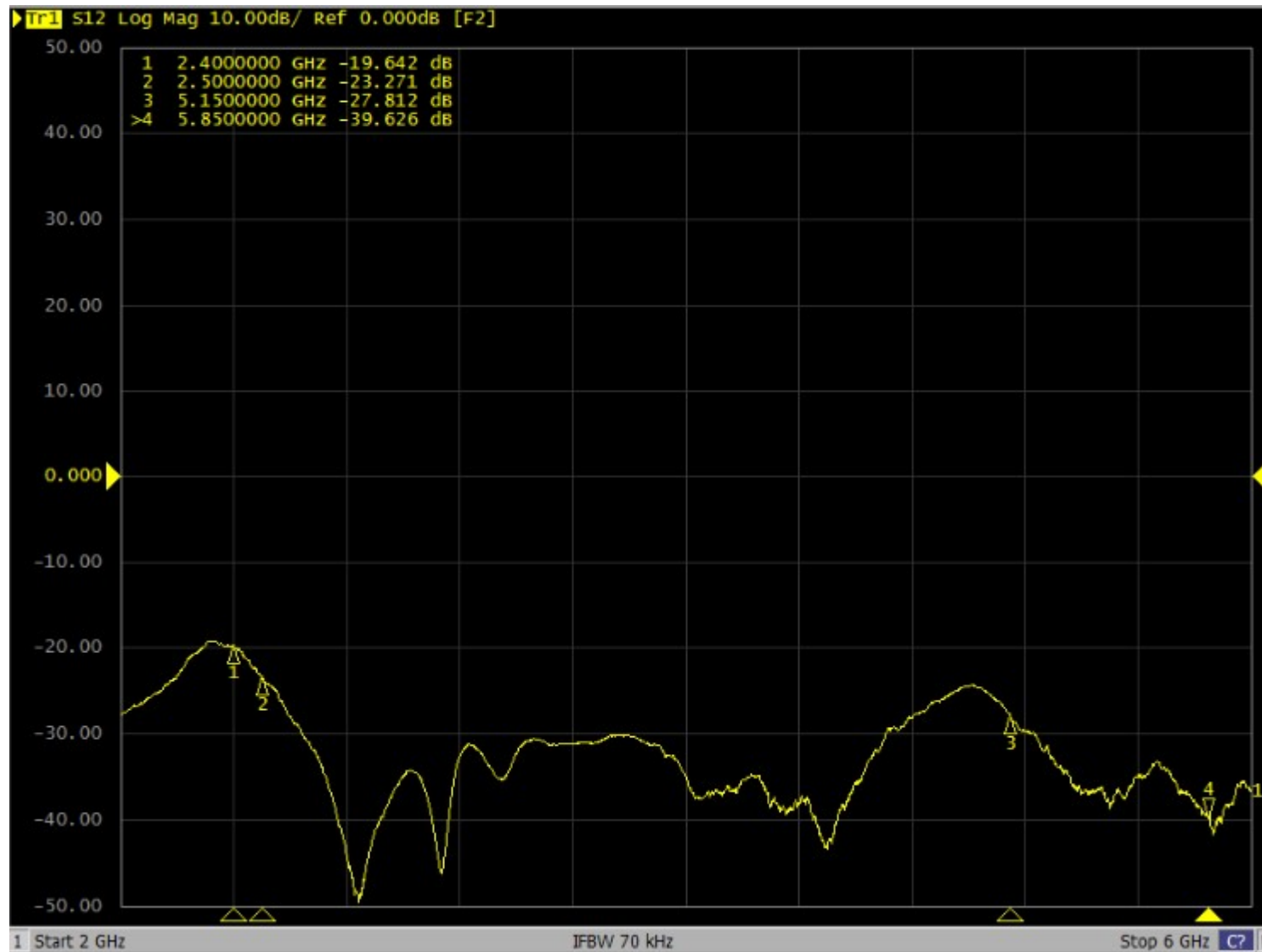
Return Loss – Ant 3 WiFi 2.4G/5G



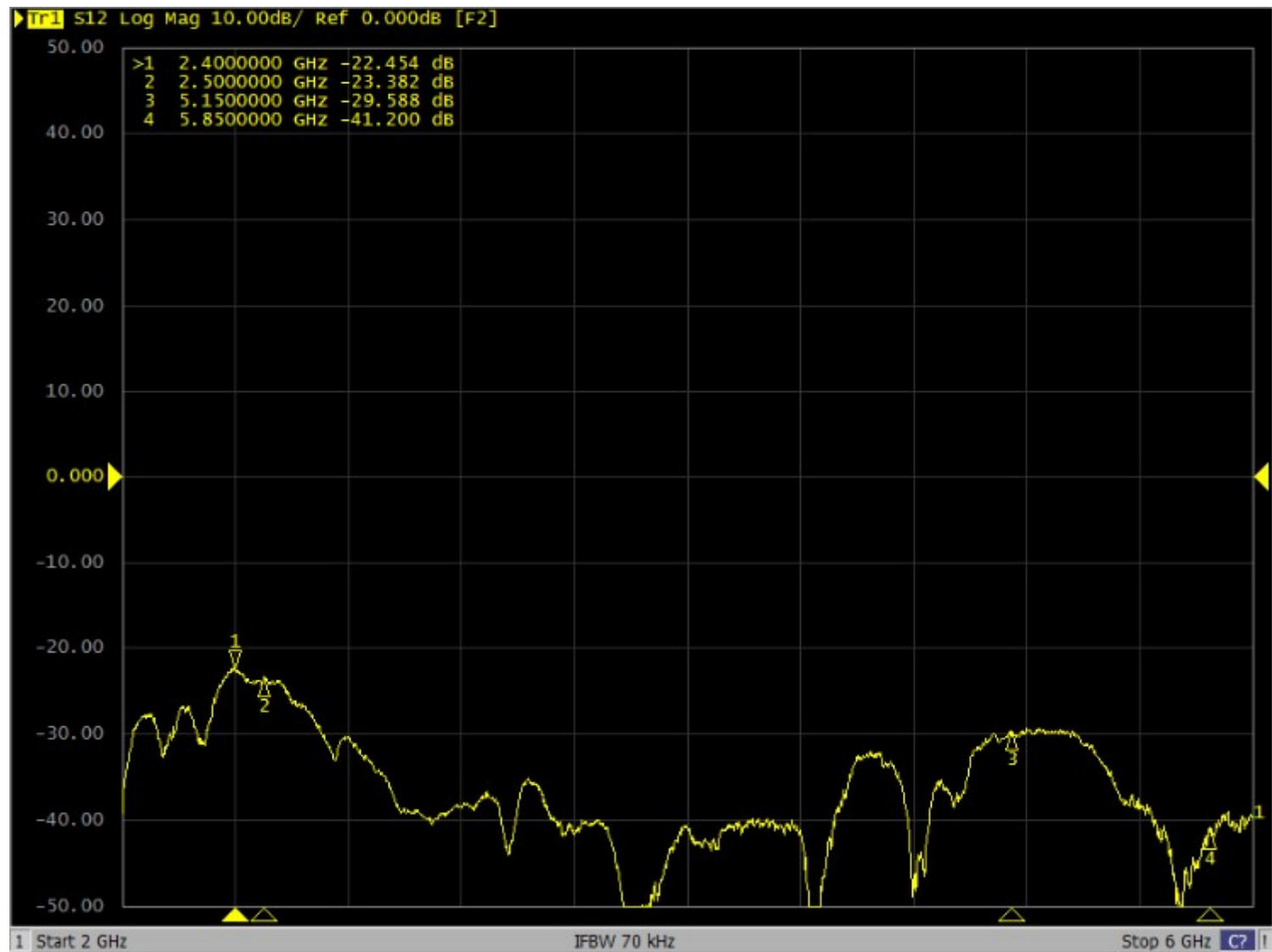
Return Loss – Ant 4 WiFi 2.4G/5G



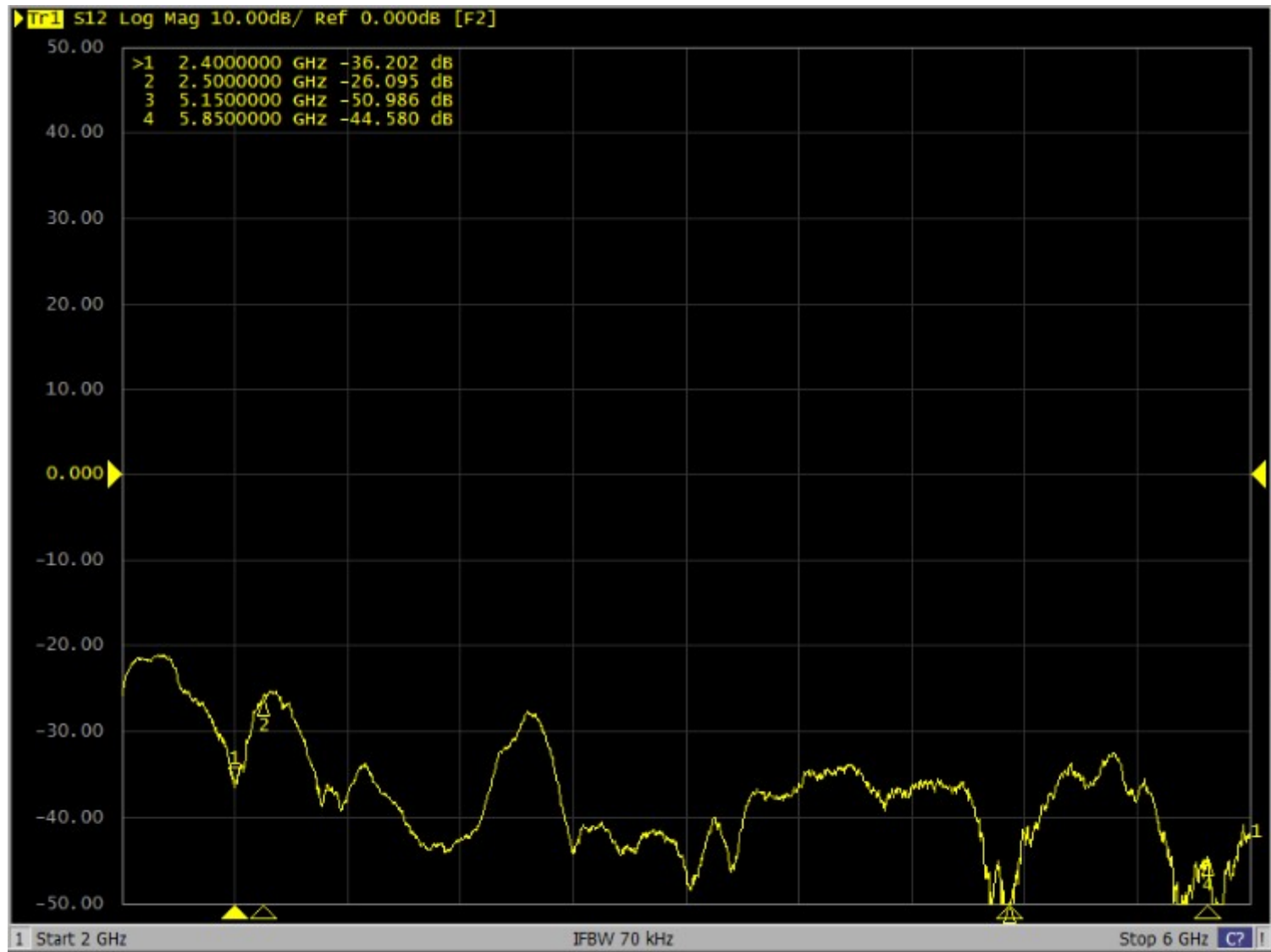
Isolation_Ant 1 & Ant 2



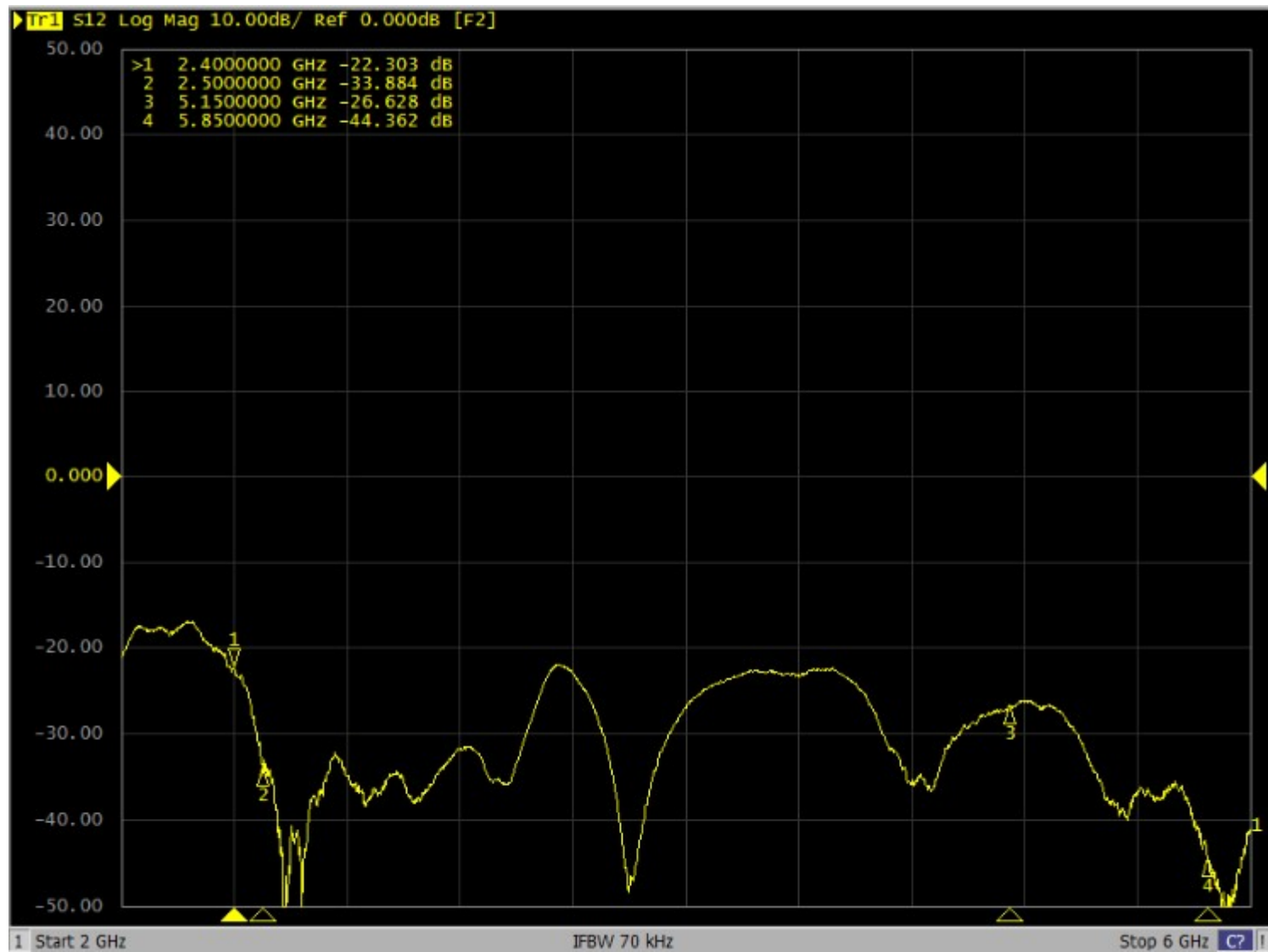
Isolation_Ant 1 & Ant 3



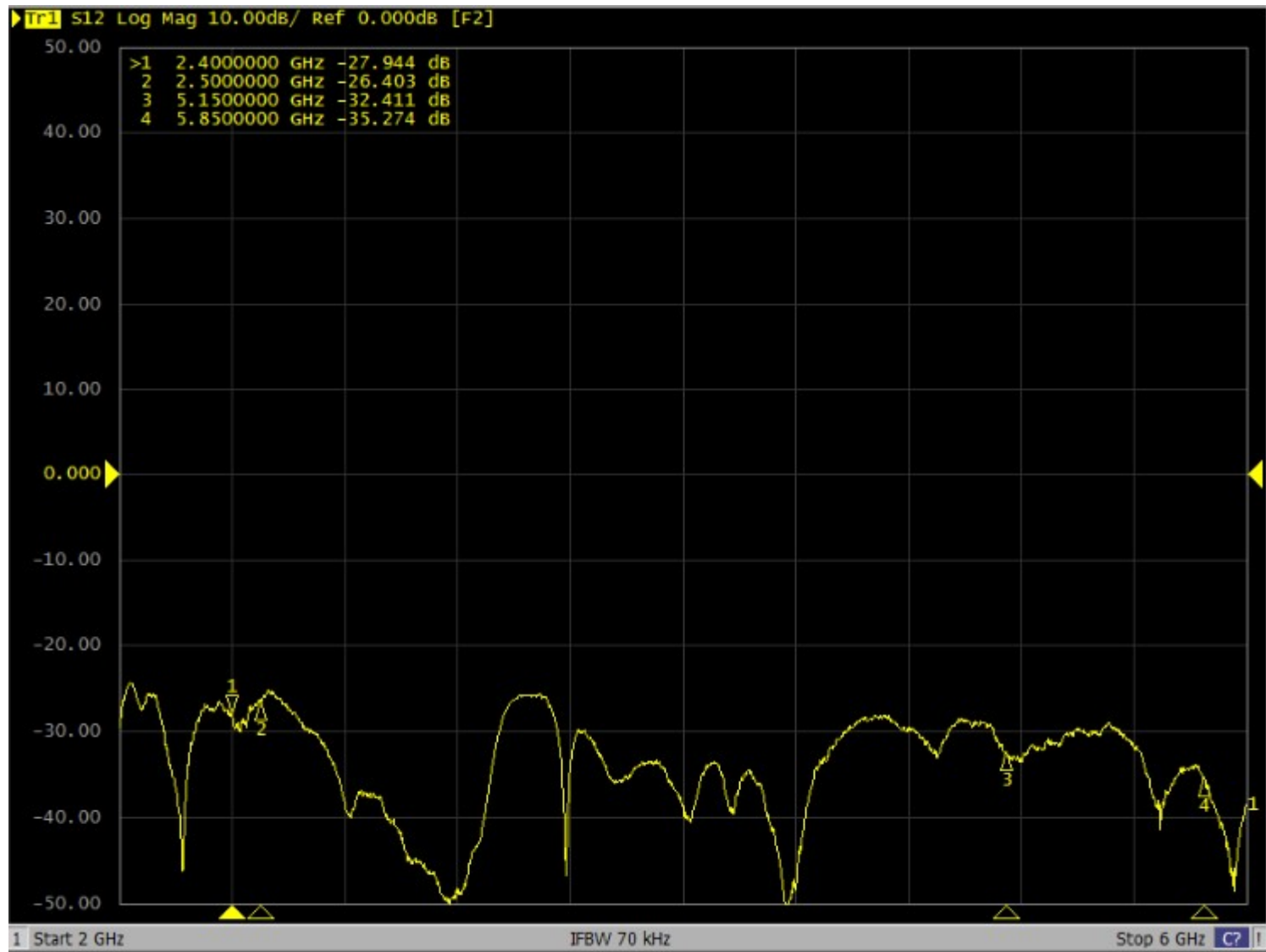
Isolation_Ant 1 & Ant 4



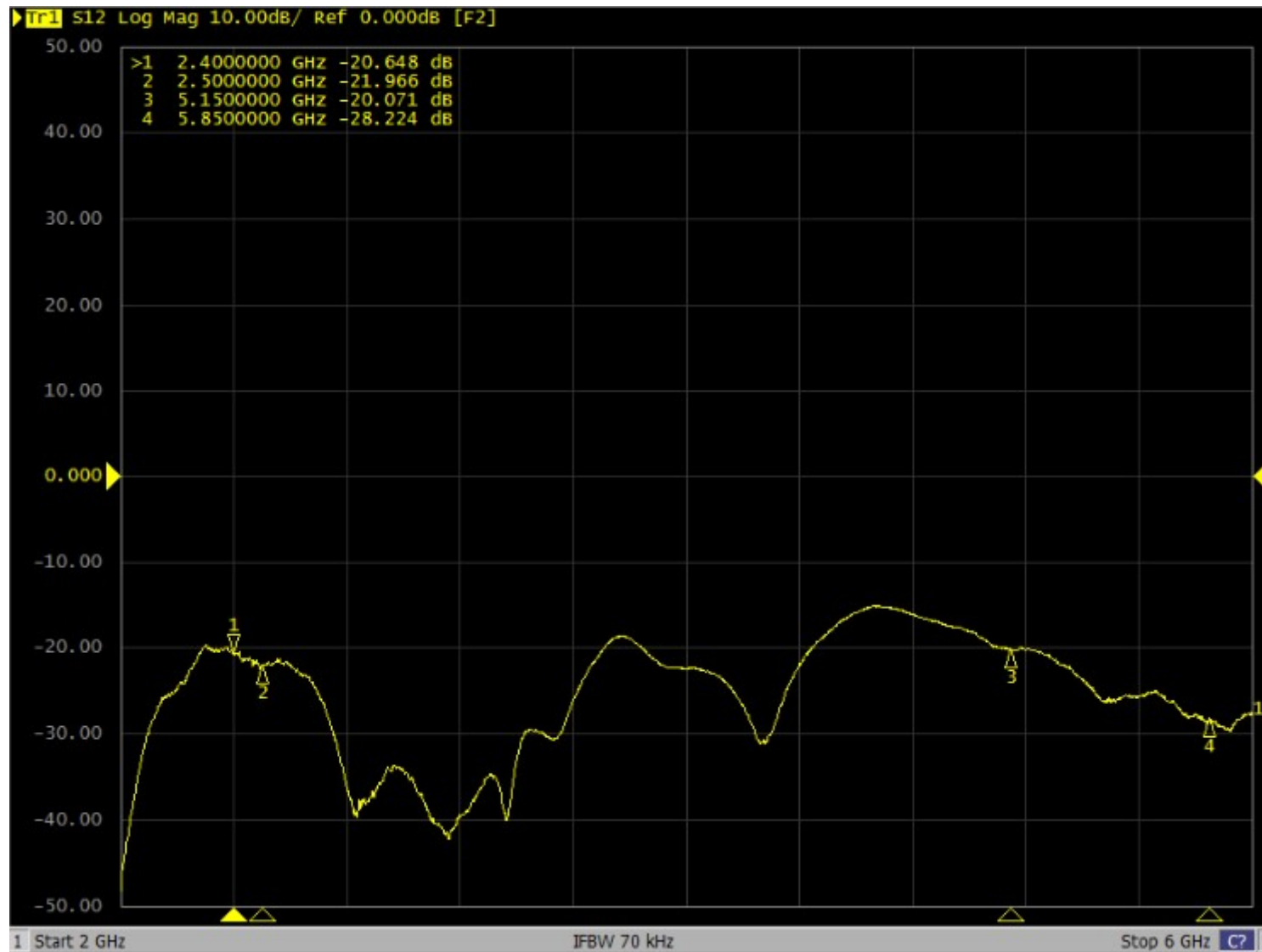
Isolation_Ant 2 & Ant 3



Isolation_Ant 2 & Ant 4

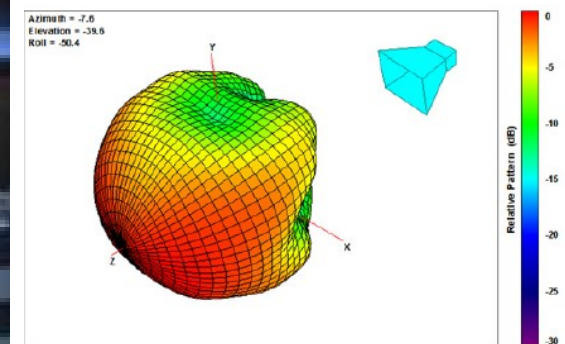
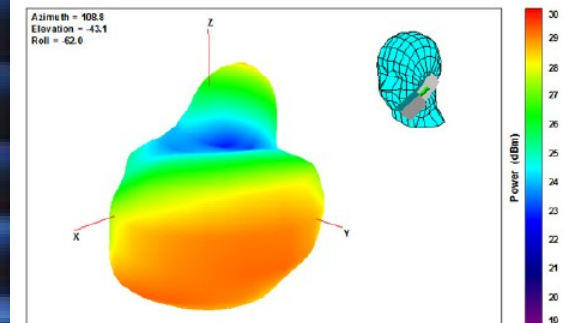
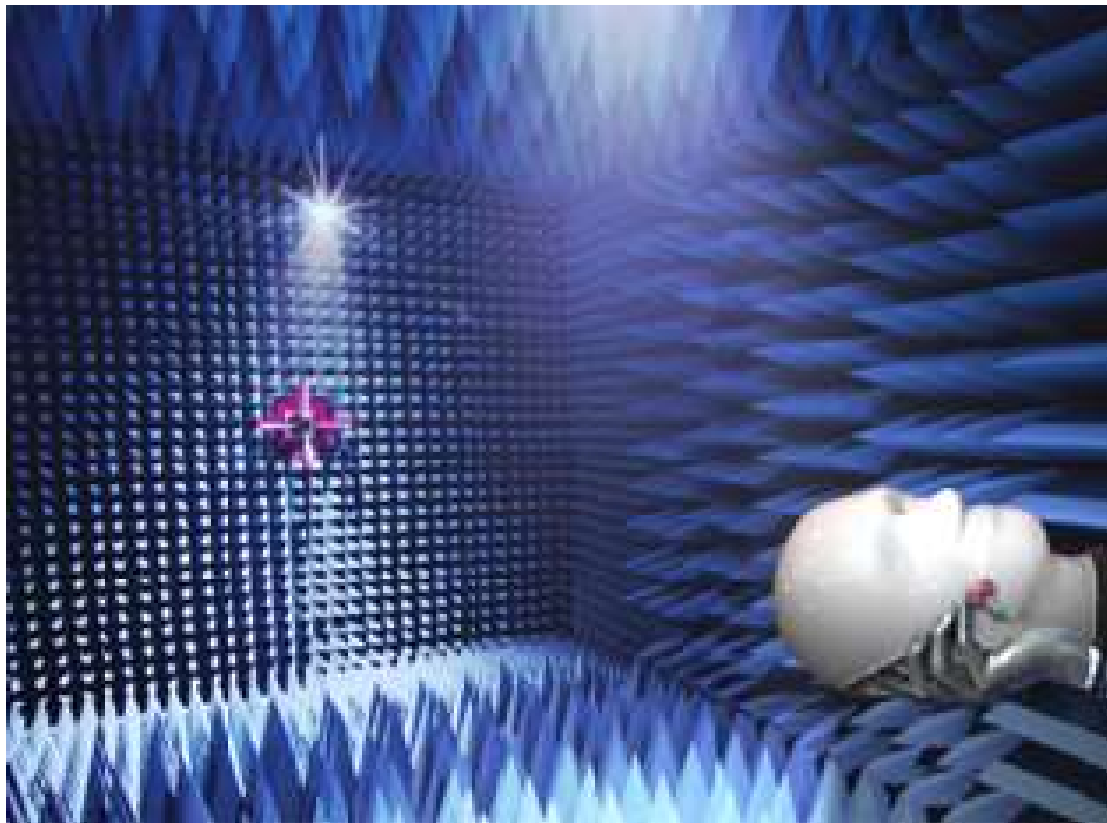


Isolation_Ant 3 & Ant 4



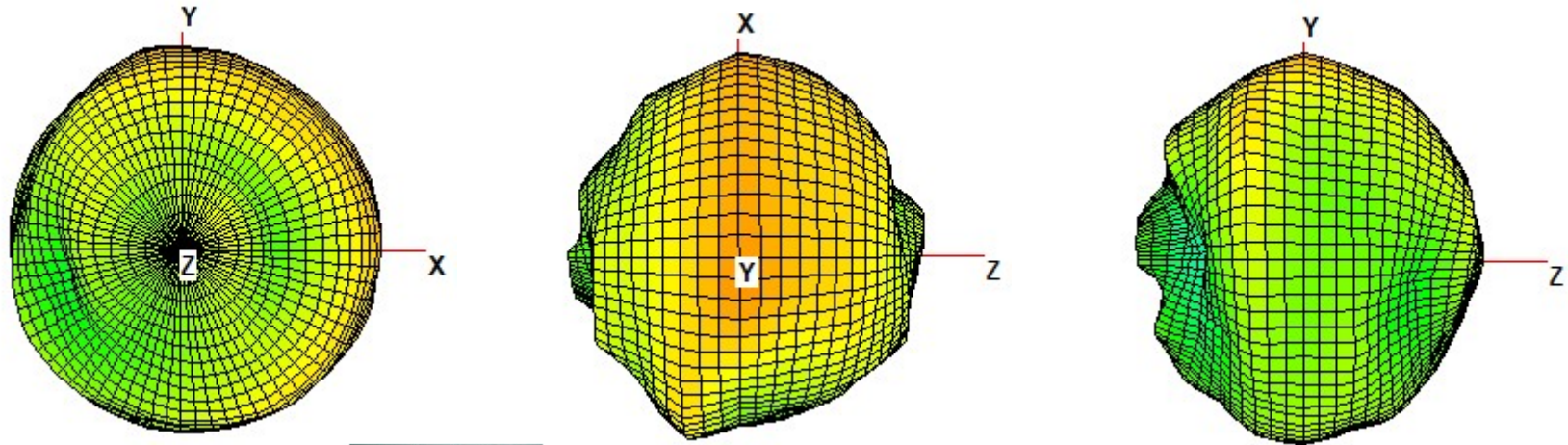
Antenna Measurement Chamber

- ETS AMS-8500 antenna measurement system
- Interior dimensions : 7.32(L)×3.66(W)×3.66(H)m³
- Operating band : 700 MHz – 10 GHz
- Support passive test & active test
- Provide graphic data display

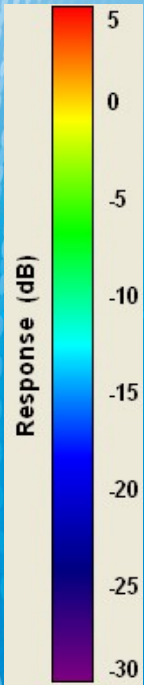
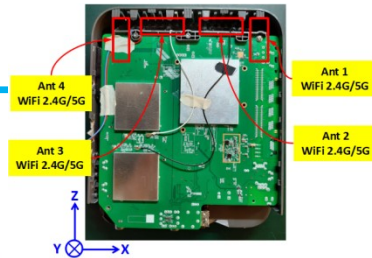
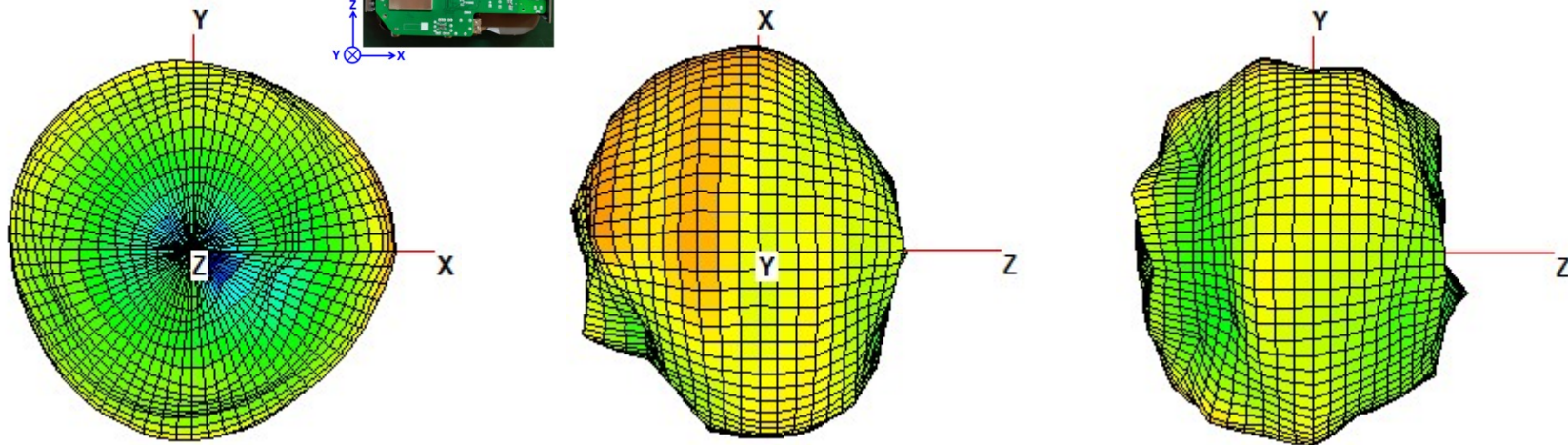


3D Radiation Pattern – Ant 1 WiFi 2G/5G

2450 MHz

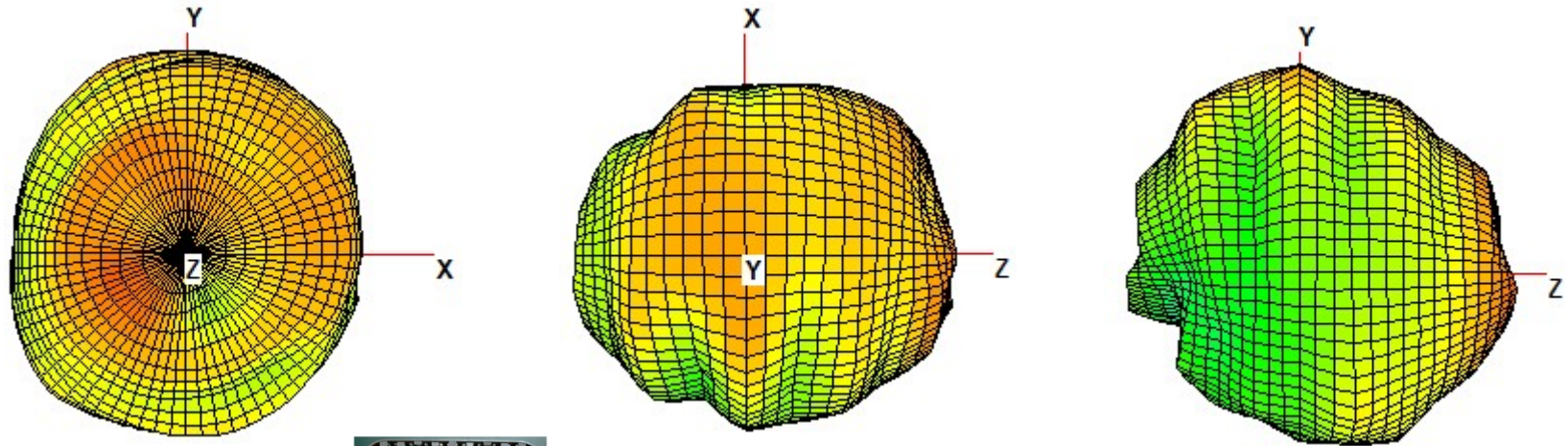


5500 MHz

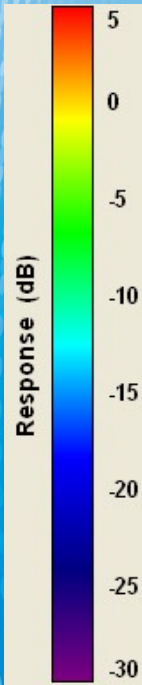
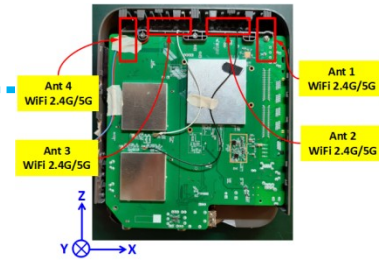
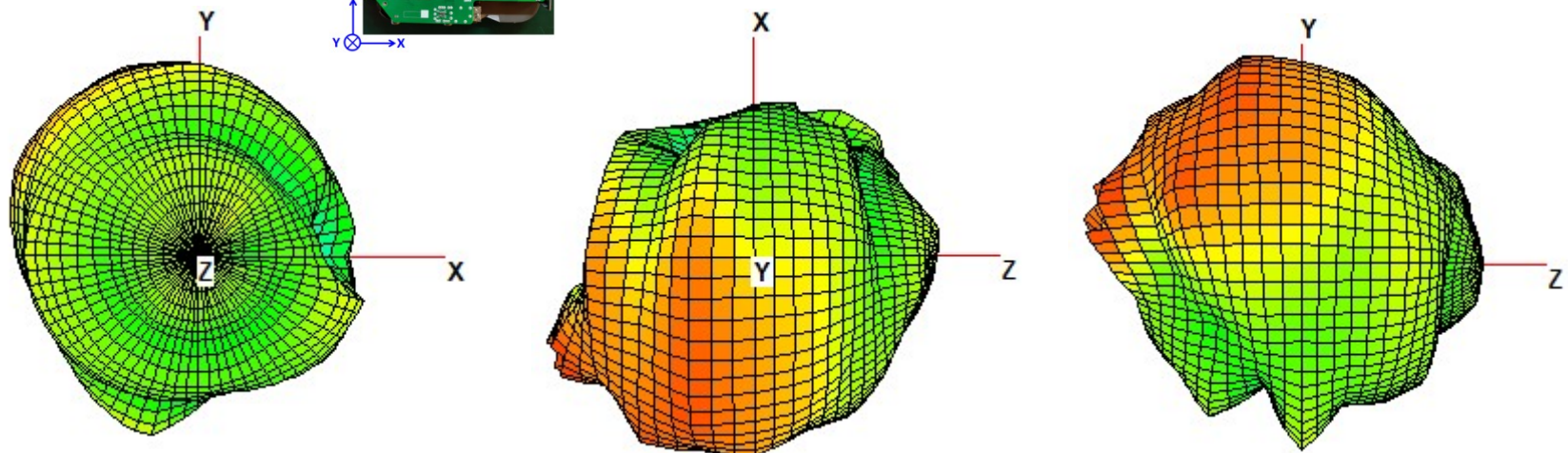


3D Radiation Pattern – Ant 2 WiFi 2G/5G

2450 MHz

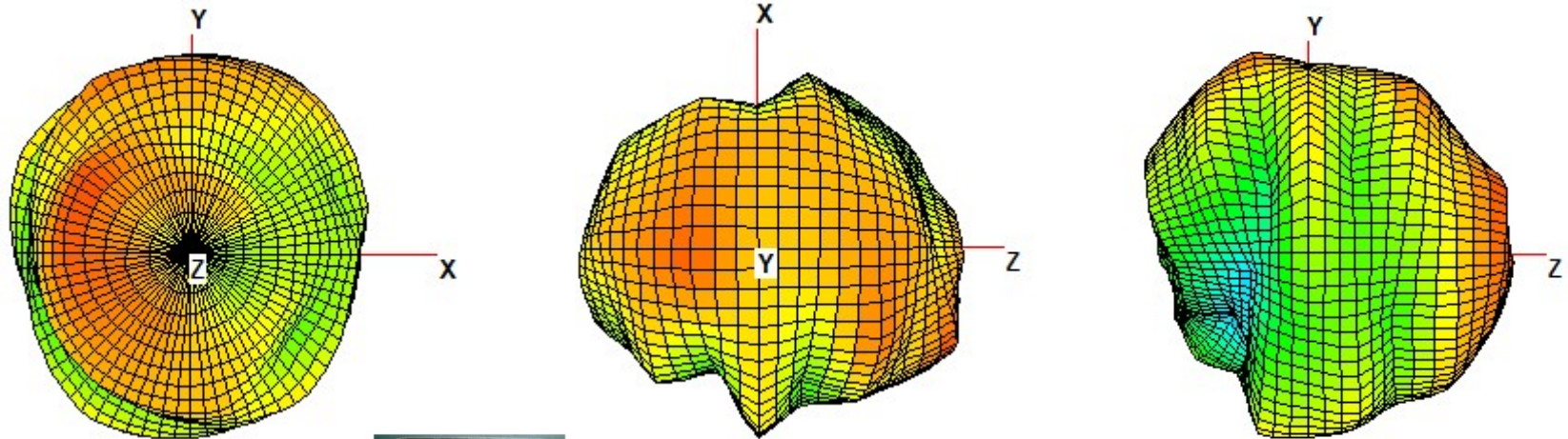


5500 MHz

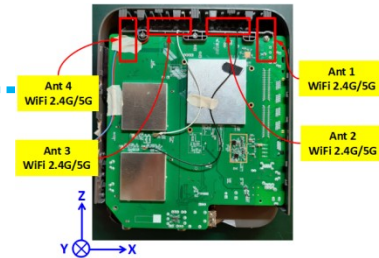
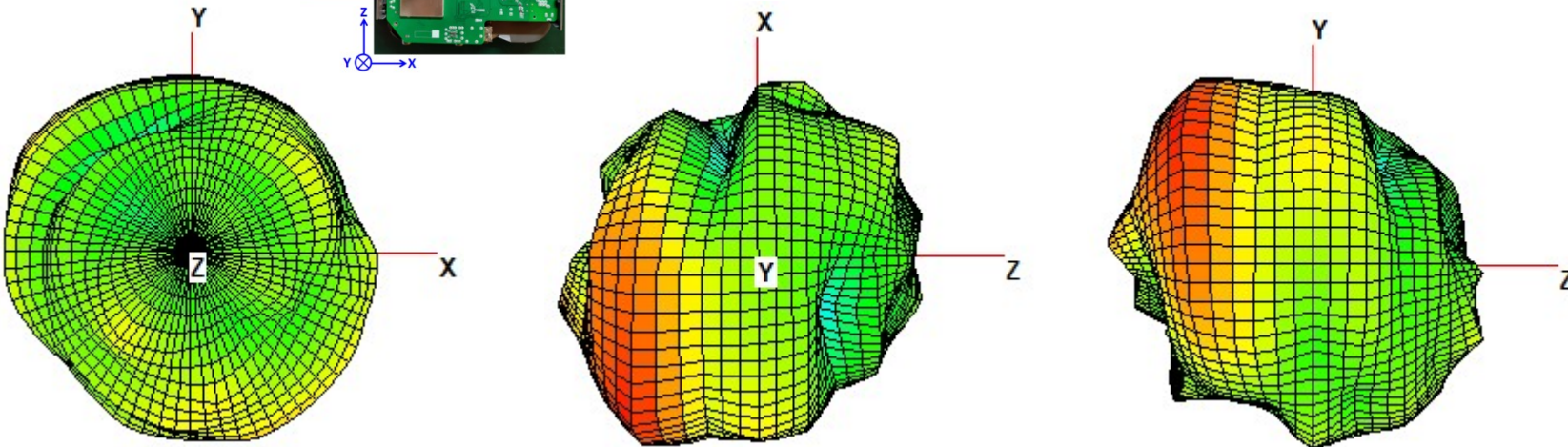


3D Radiation Pattern – Ant 3 WiFi 2G/5G

2450 MHz

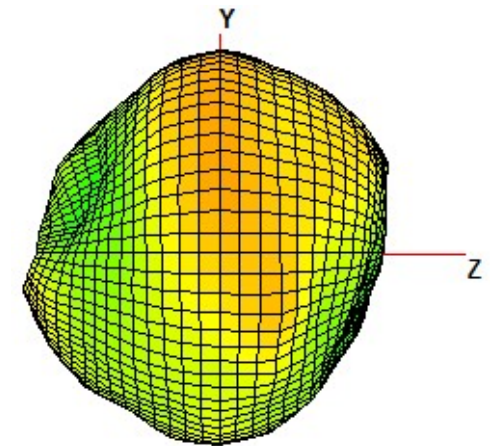
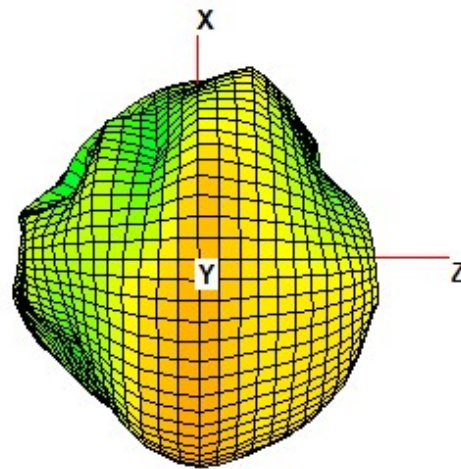
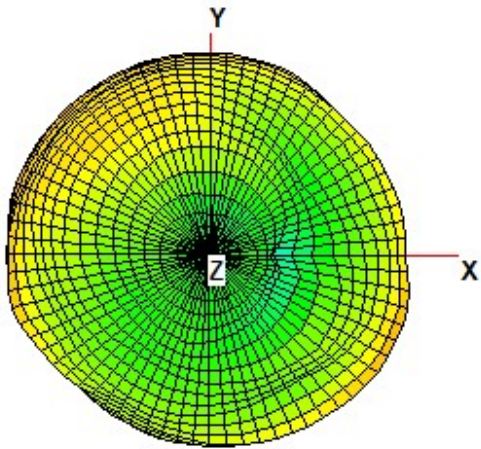


5500 MHz

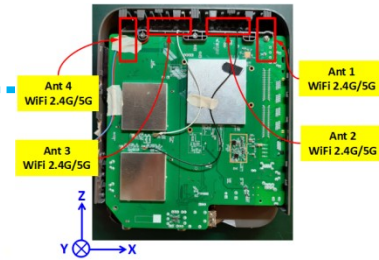
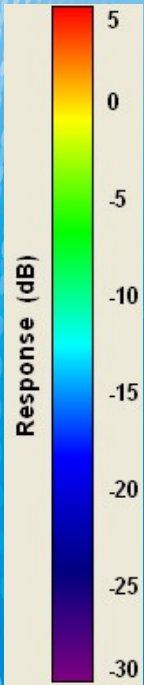
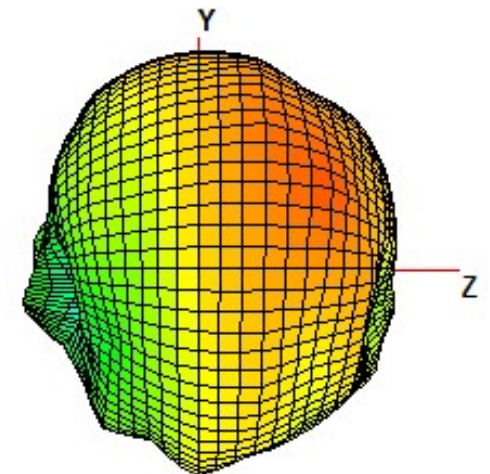
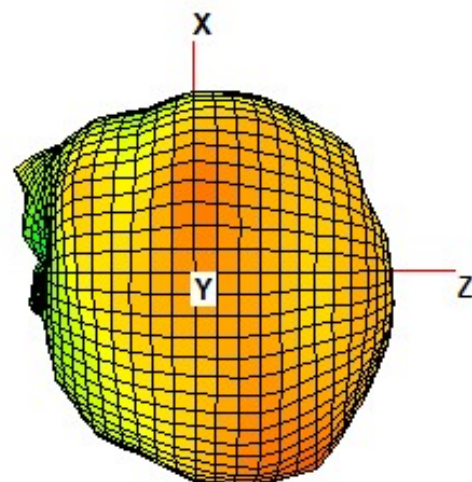
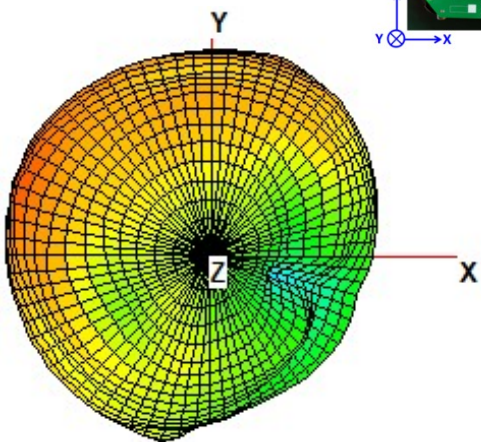


3D Radiation Pattern – Ant 4 WiFi 2G/5G

2450 MHz

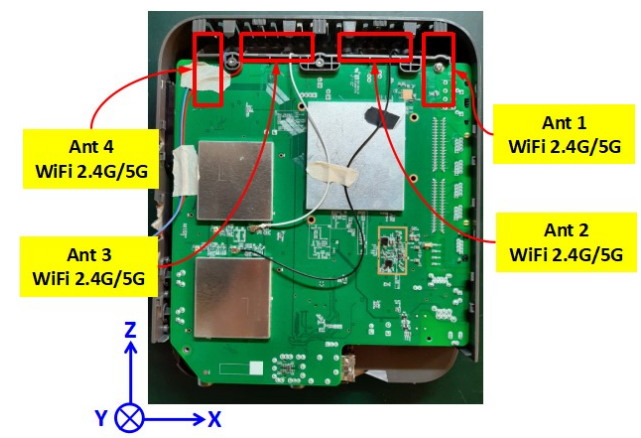
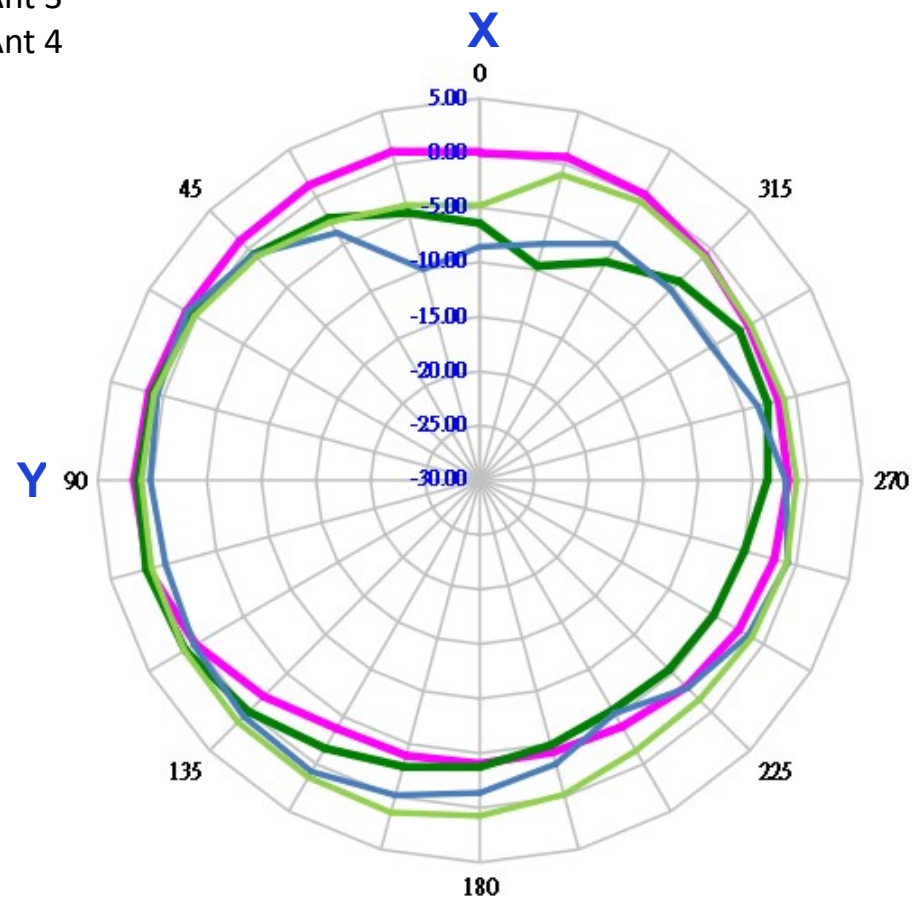


5500 MHz



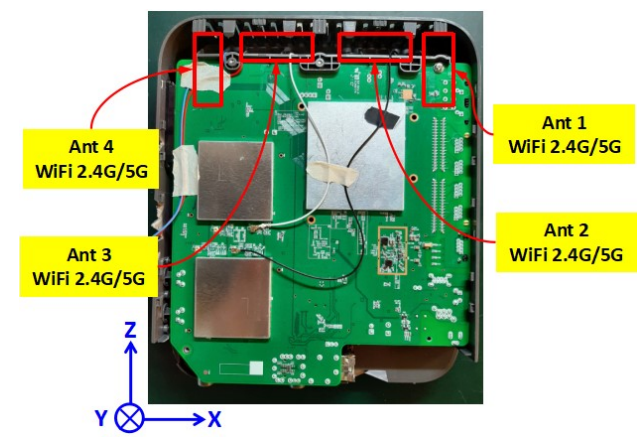
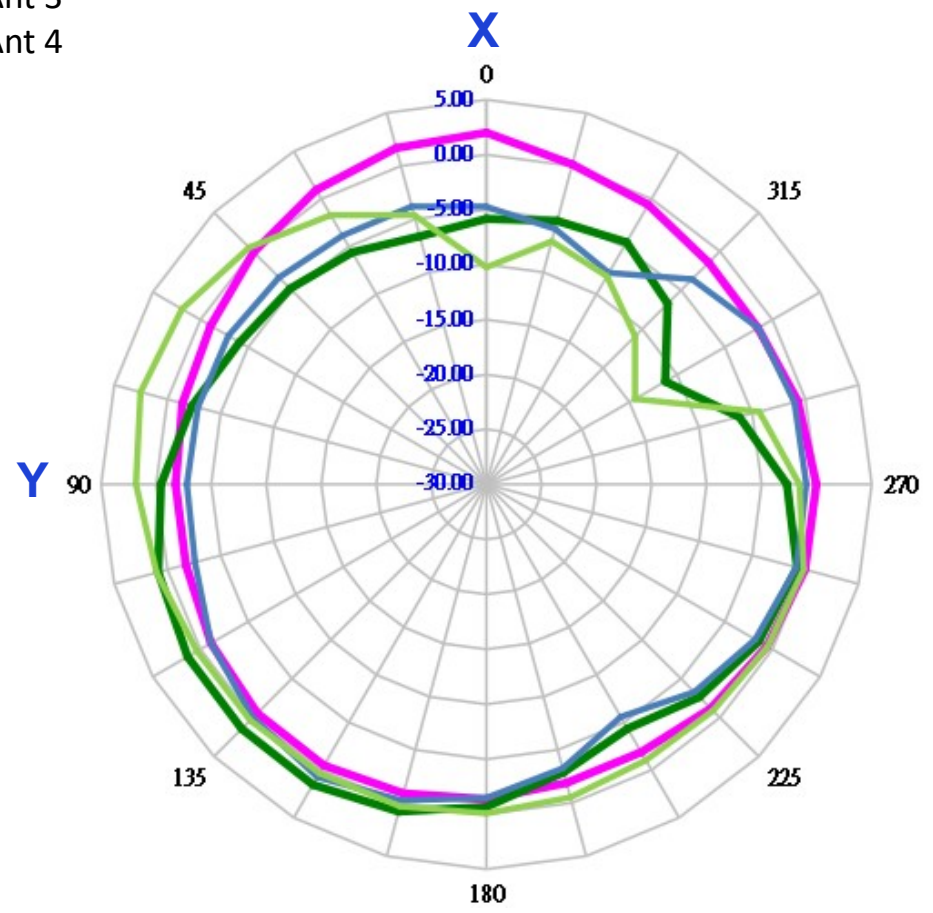
System Coverage – WiFi 2G

- Ant 1
- Ant 2
- Ant 3
- Ant 4



System Coverage – WiFi 5G

- Ant 1
- Ant 2
- Ant 3
- Ant 4



Peak Gain & Efficiency

Ant 1 Performance_WiFi 2.4G/5G

Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
2400	54.2	2.7
2450	61.2	3.1
2500	63.4	3.0
5150	59.9	2.9
5500	63.0	3.4
5850	57.3	3.0

Ant 2 Performance_WiFi 2.4G/5G

Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
2400	62.9	3.2
2450	57.7	2.7
2500	55.2	2.9
5150	61.6	3.4
5500	57.5	3.9
5850	53.9	3.3

Ant 3 Performance_WiFi 2.4G/5G

Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
2400	67.3	3.4
2450	65.6	3.7
2500	64.1	3.5
5150	60.0	3.9
5500	65.6	4.0
5850	55.1	3.5

Ant 4 Performance_WiFi 2.4G/5G

Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
2400	54.7	2.8
2450	61.2	3.1
2500	63.4	3.0
5150	59.9	2.9
5500	63.0	3.4
5850	57.3	3.0



Directional gain

Directional gain	
Frequency (MHz)	Directional gain(dBi)
2400	7.14
2450	7.31
2500	7.22
5150	6.99
5500	6.62
5850	5.89

SERCOMM

www.sercomm.com