



# Meraki Starro Antenna Test Report

Date : Apr. 22, 2020

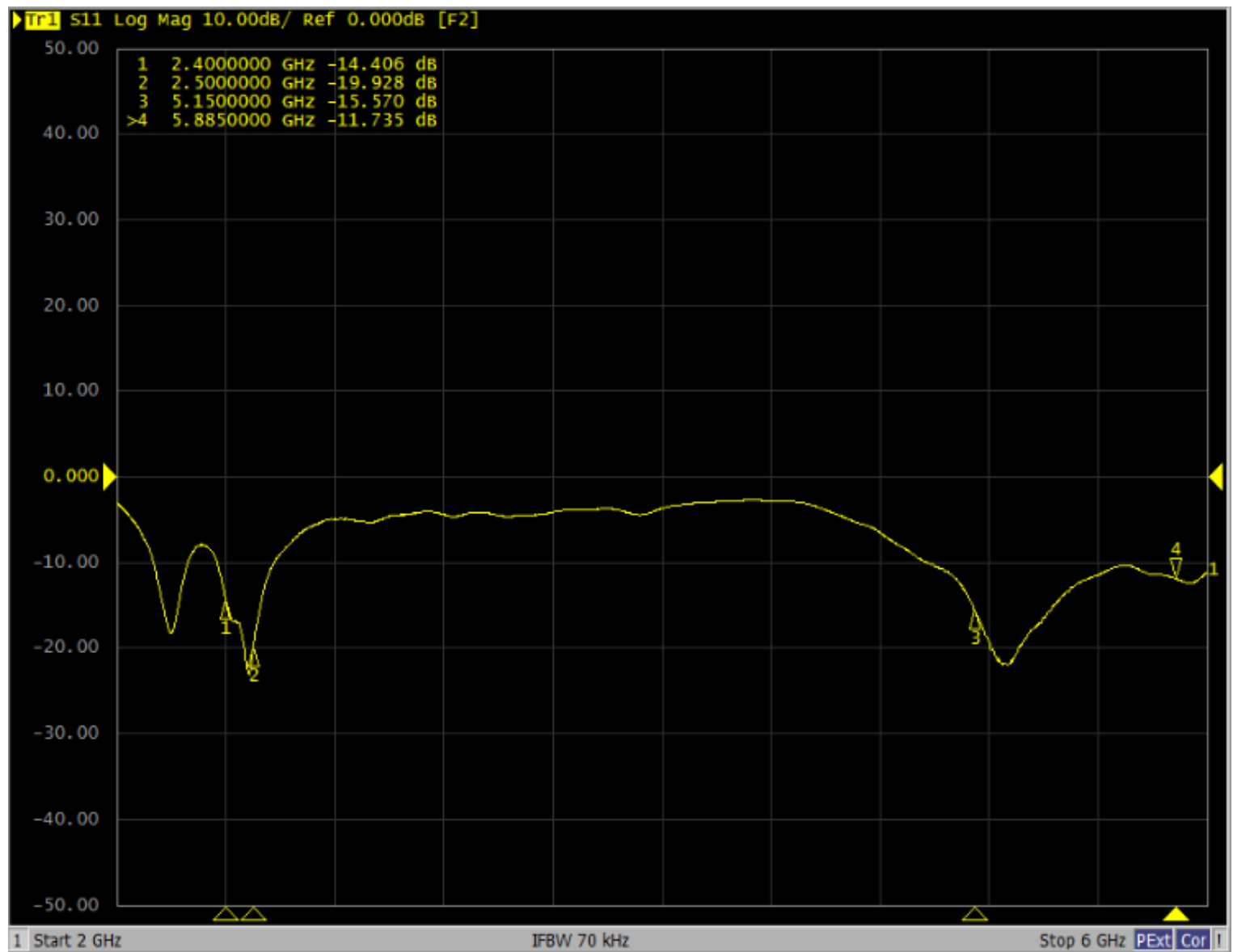
Prepared by : AK Chen



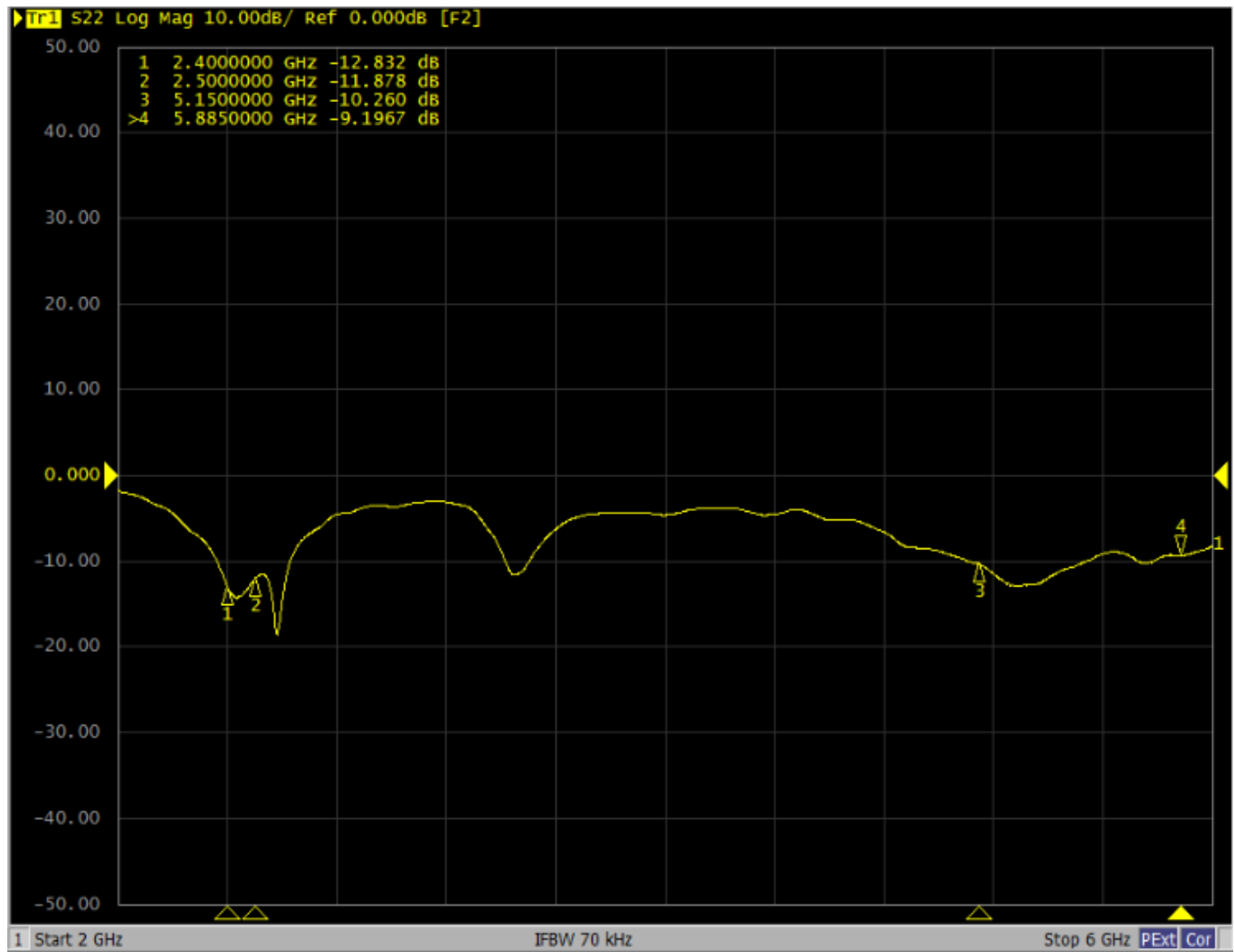
# Antenna Structure & Placement

| Ant No. | Operating Band                             | Type | Material | Feeding | Dimension                      |
|---------|--------------------------------------------|------|----------|---------|--------------------------------|
| Ant 1   | 2400 MHz ~ 2500 MHz<br>5150 MHz ~ 5850 MHz | PIFA | FPC      | Cable   | 28 x 28 x 0.15 mm <sup>3</sup> |
| Ant 2   | 2400 MHz ~ 2500 MHz<br>5150 MHz ~ 5850 MHz | PIFA | FPC      | Cable   | 28 x 19 x 0.15 mm <sup>3</sup> |

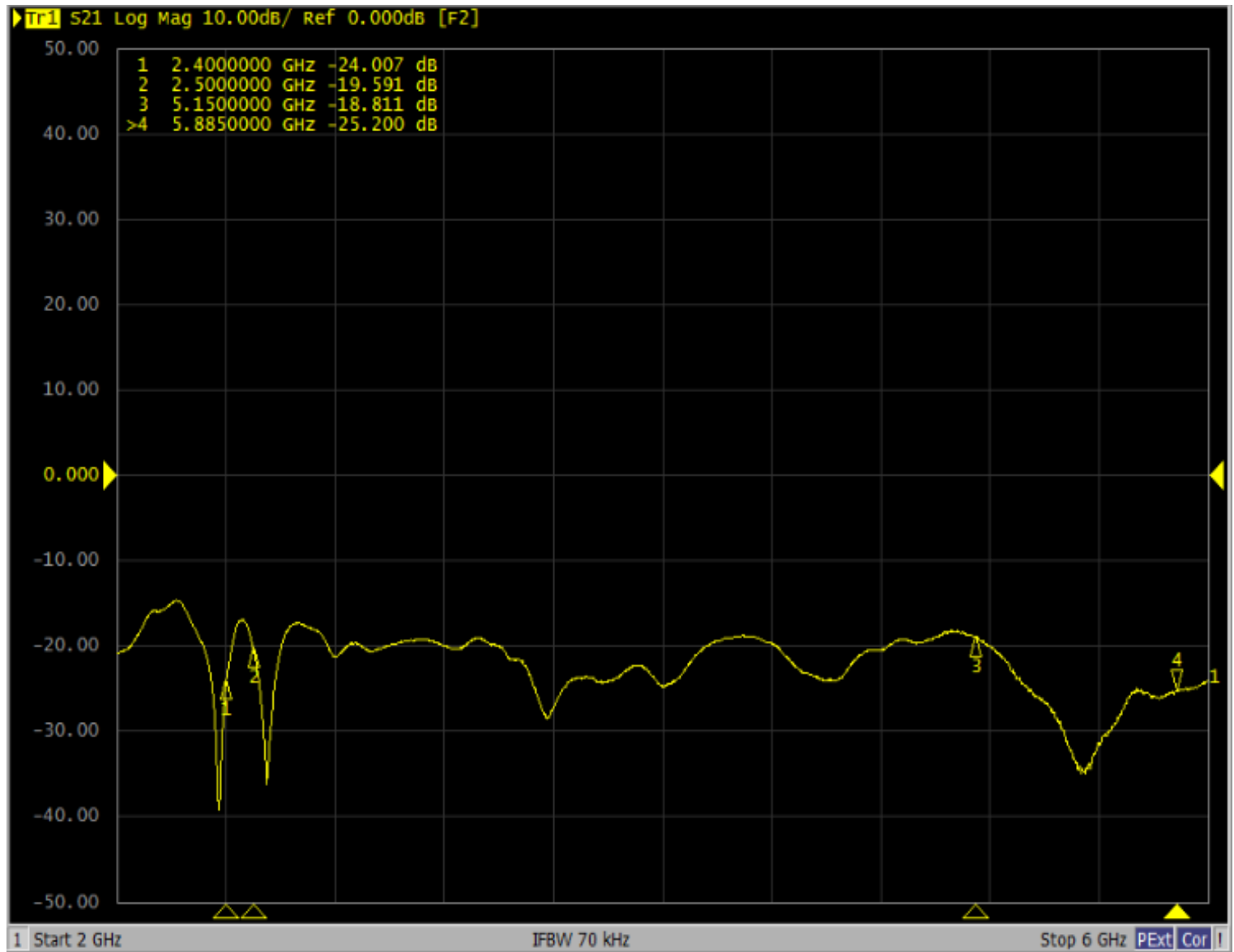
# Return Loss\_Ant 1



# Return Loss\_Ant 2

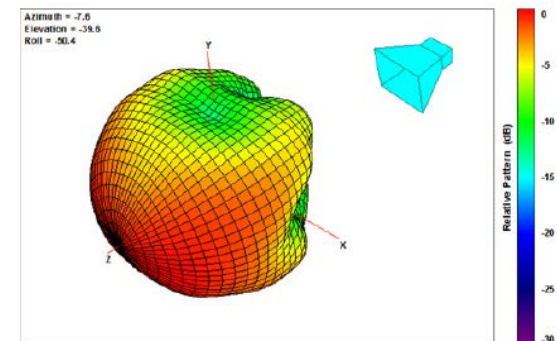
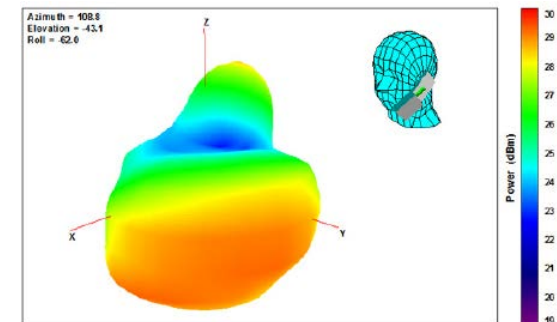
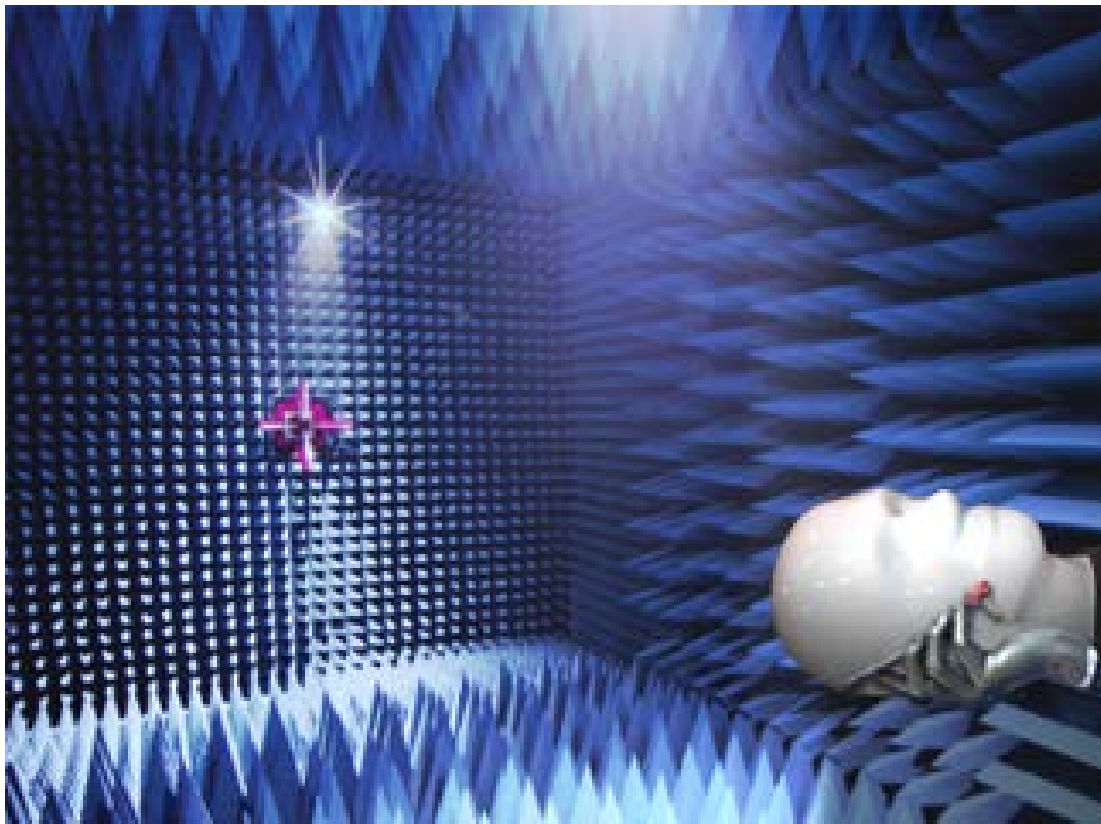


# Isolation



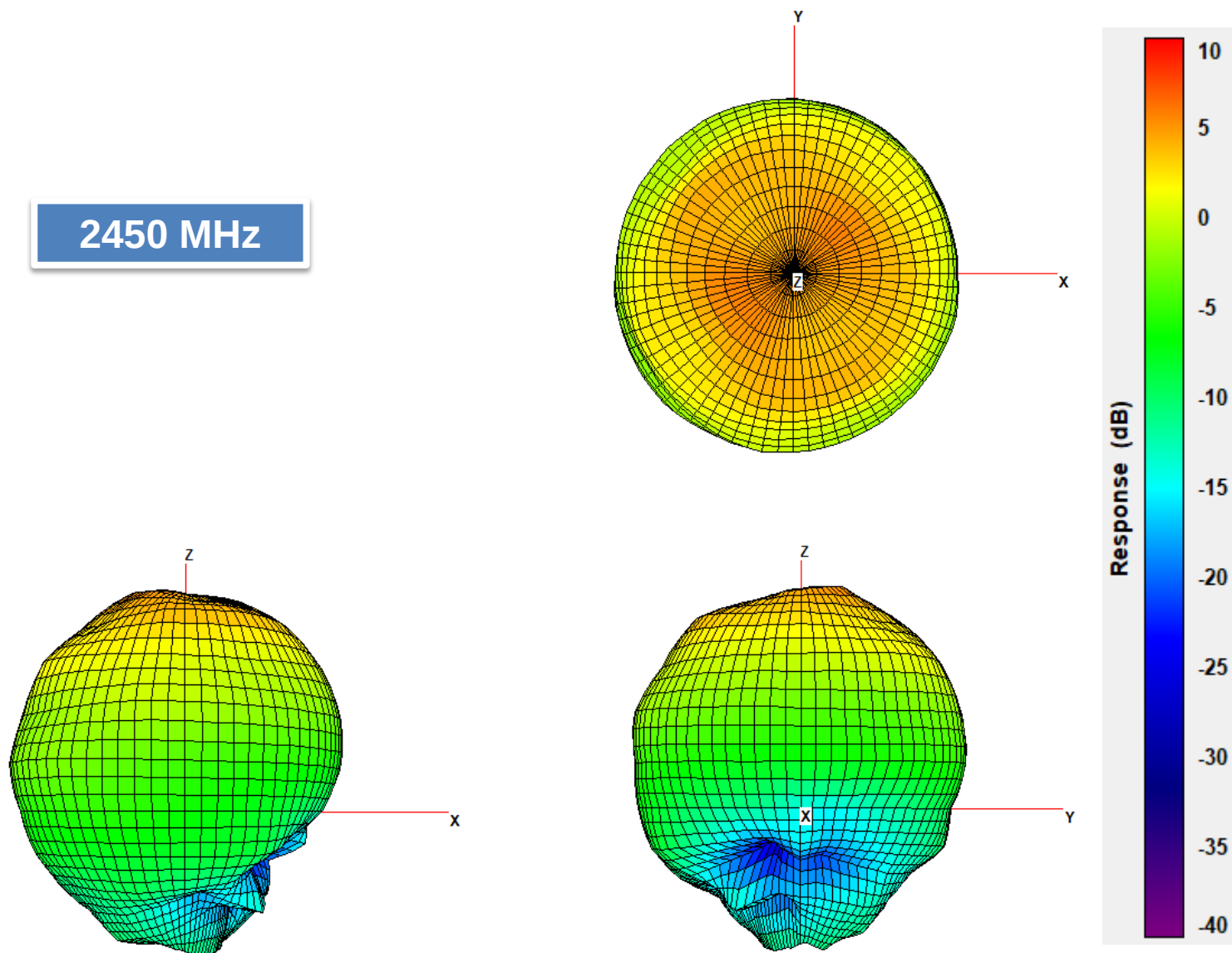
# Antenna Measurement Chamber

- ETS AMS-8500 antenna measurement system
- Interior dimensions : 7.32(L)×3.66(W)×3.66(H)m<sup>3</sup>
- Operating band : 700 MHz – 10 GHz
- Support passive test & active test
- Provide graphic data display



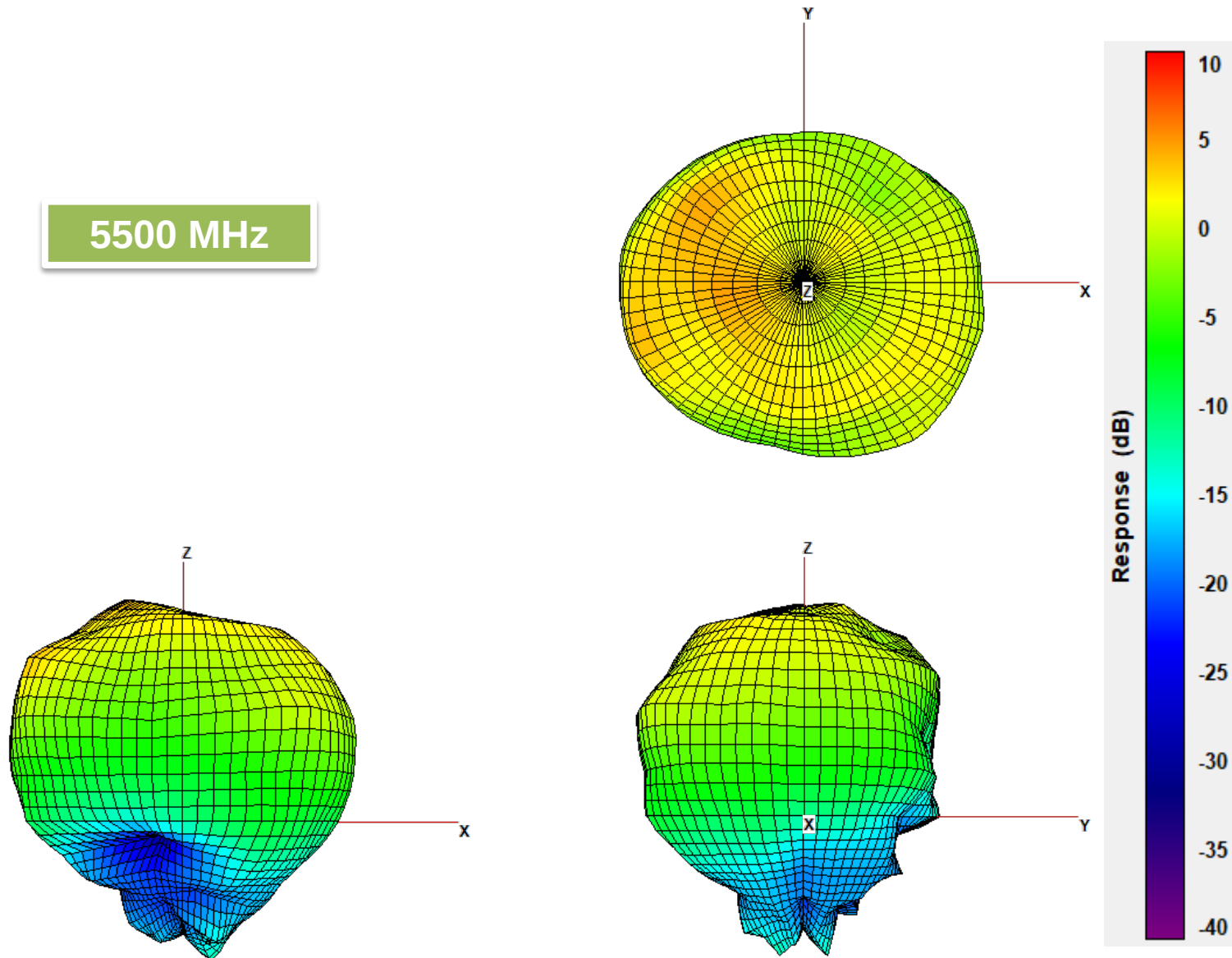
# Radiation Pattern – Ant 1

2450 MHz



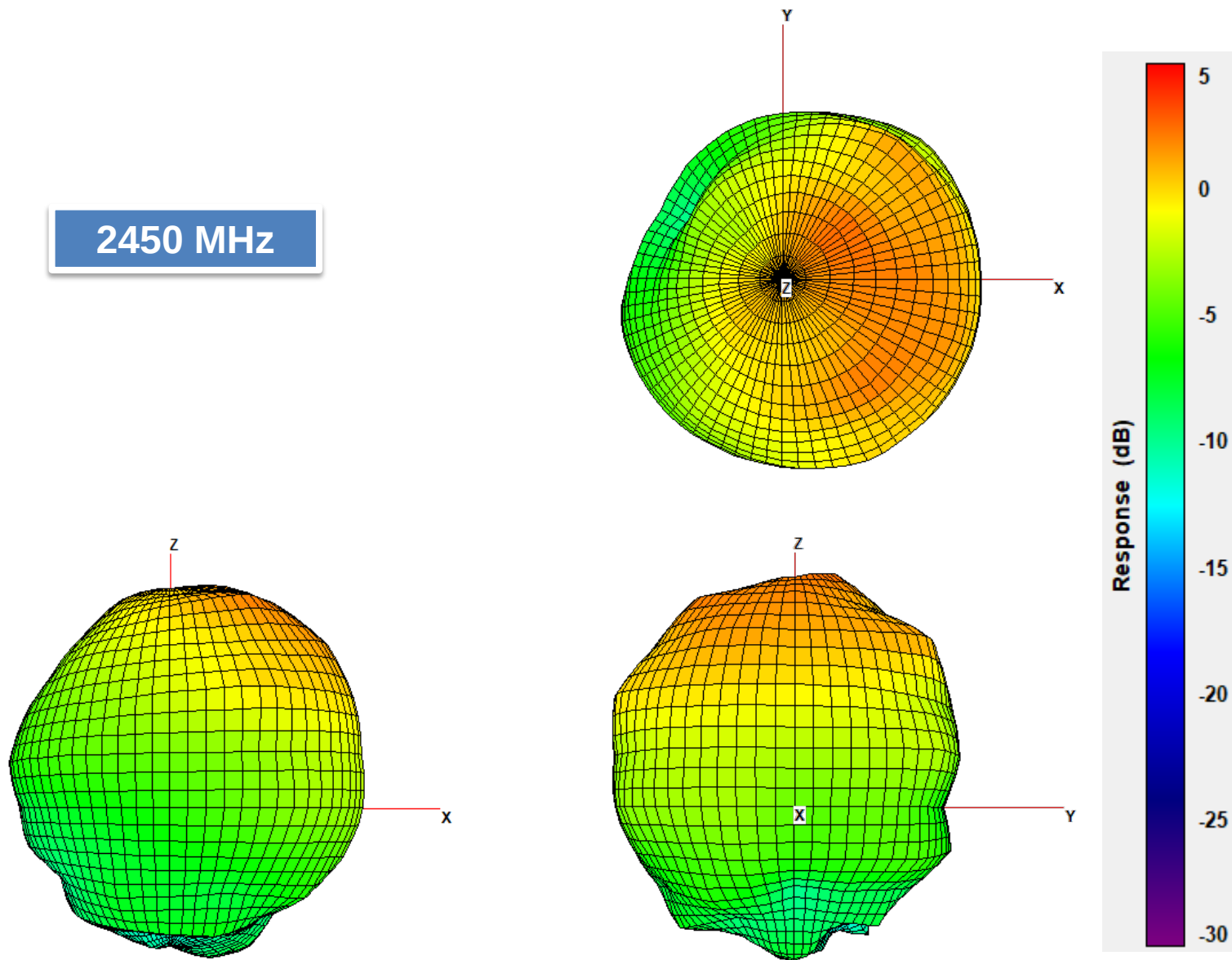
# Radiation Pattern – Ant 1

5500 MHz



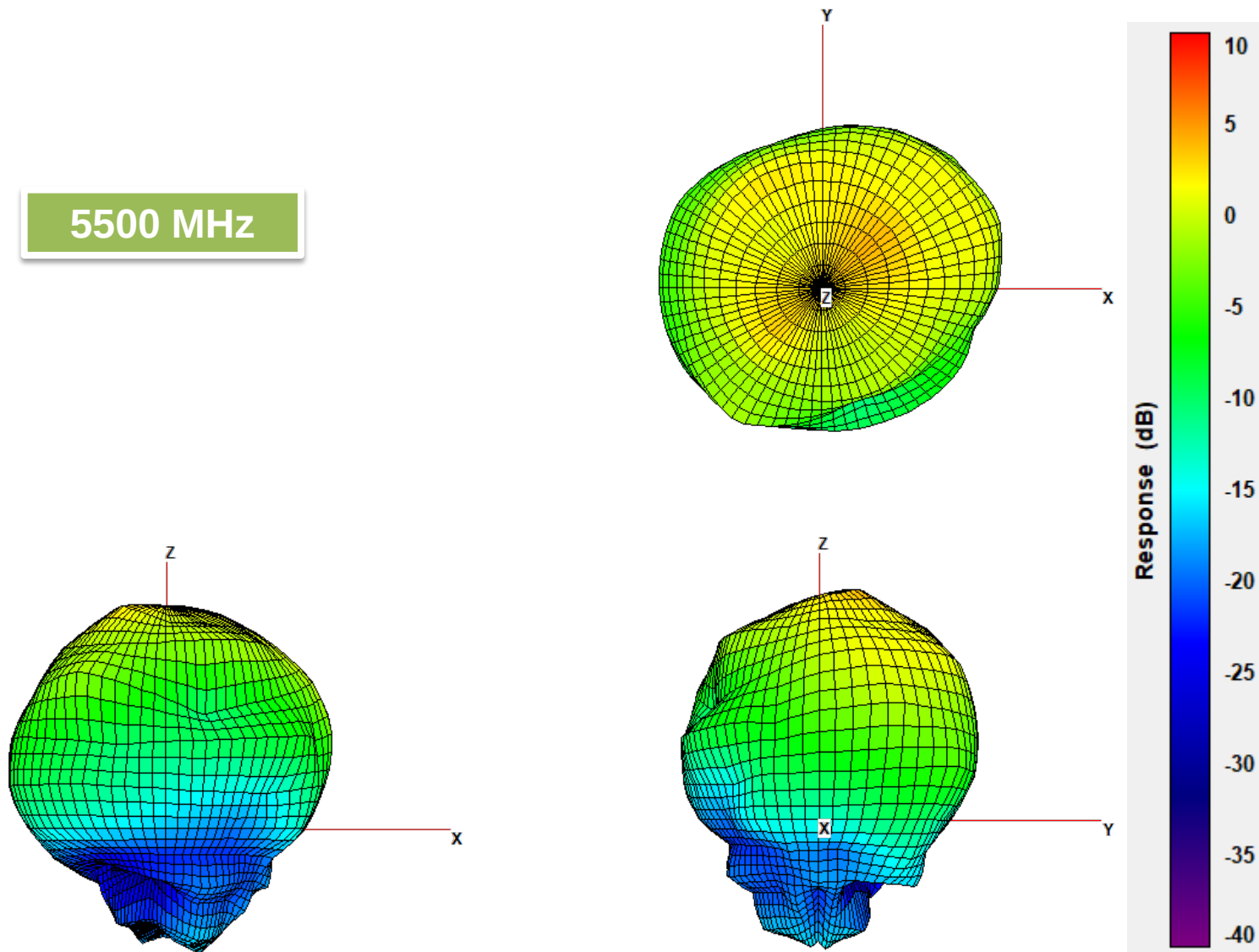
# Radiation Pattern – Ant 2

2450 MHz



# Radiation Pattern – Ant 2

5500 MHz



# Peak Gain & Efficiency

| Ant 1       |                |                 |
|-------------|----------------|-----------------|
| Freq. (MHz) | Efficiency (%) | Peak Gain (dBi) |
| 2400        | 41.3           | 5.99            |
| 2450        | 45.1           | 6.42            |
| 2500        | 42.9           | 6.49            |
| 5150        | 44.6           | 6.34            |
| 5500        | 53.7           | 6.23            |
| 5850        | 45.0           | 5.13            |

| Ant 2       |                |                 |
|-------------|----------------|-----------------|
| Freq. (MHz) | Efficiency (%) | Peak Gain (dBi) |
| 2400        | 41.9           | 2.36            |
| 2450        | 39.7           | 2.86            |
| 2500        | 39.2           | 2.44            |
| 5150        | 42.9           | 5.26            |
| 5500        | 40.8           | 5.58            |
| 5850        | 40.4           | 5.05            |

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