

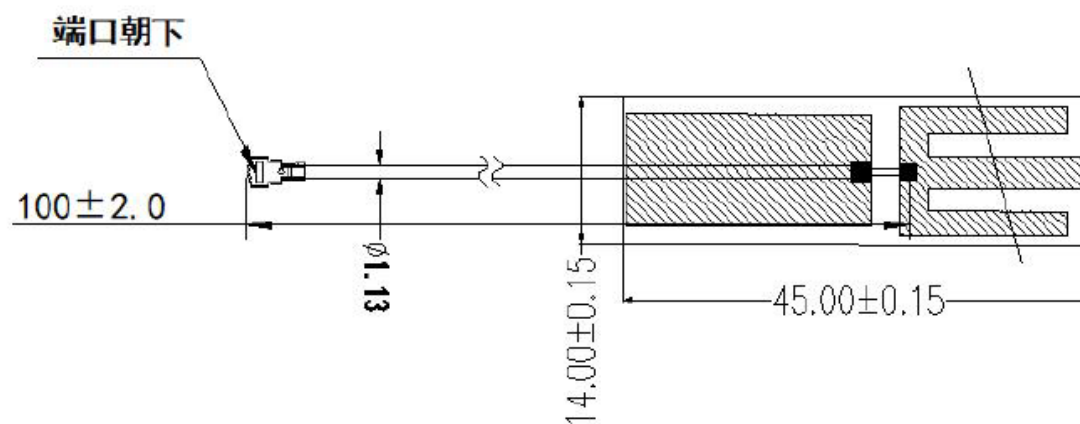
# **WIFI 2.4/5G antenna test report**

Jeany Ling

Nov. 23, 2022

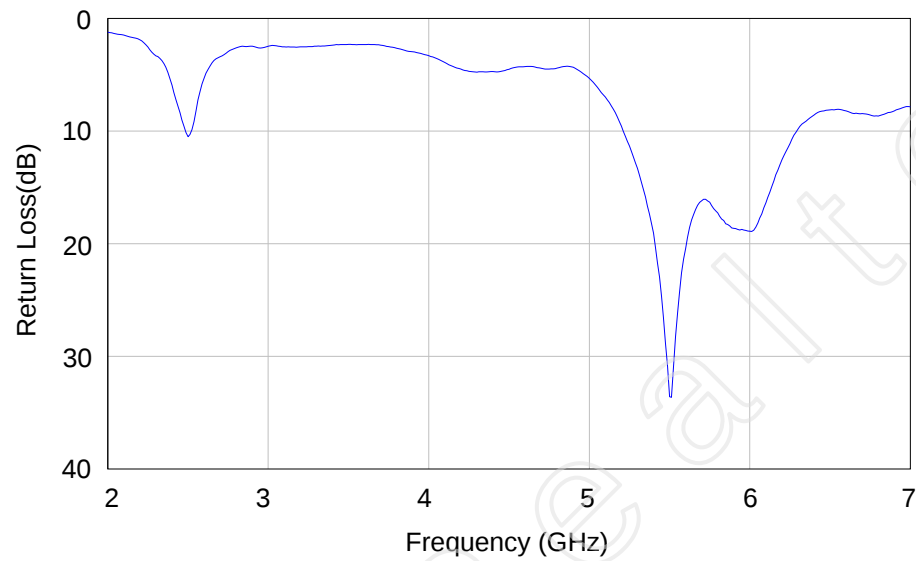
- Antenna structure

- Photo



mm

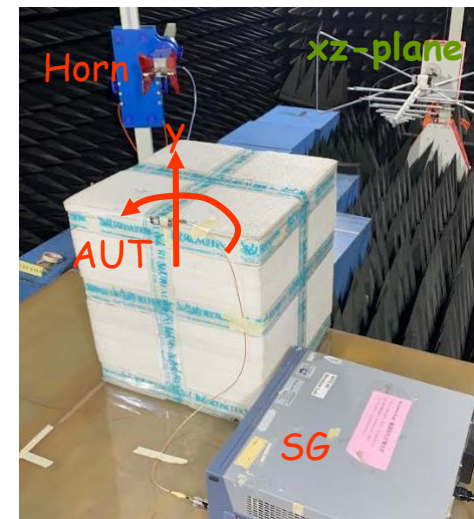
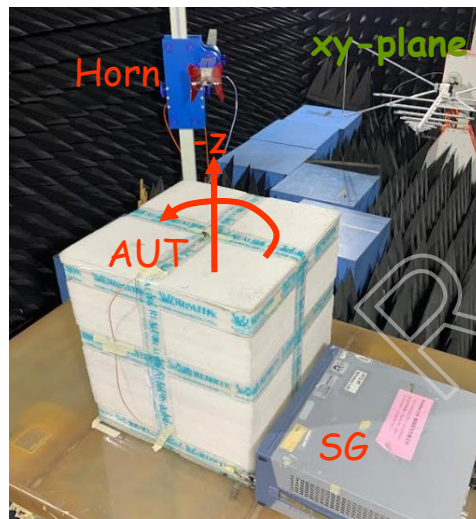
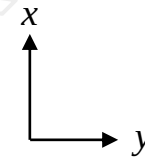
- Return Loss



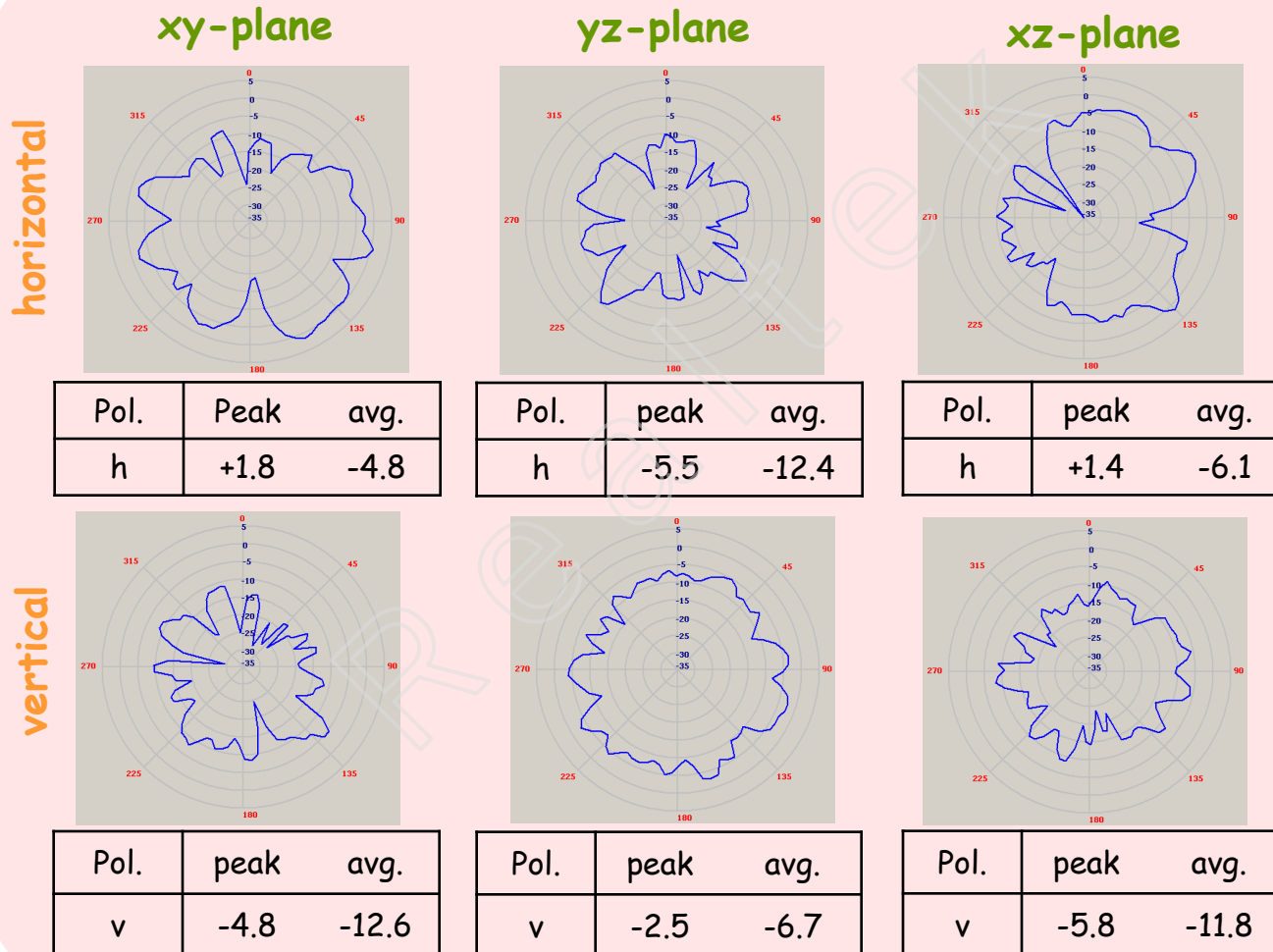
\* C4=C5=NC, L1=0ohm

- **Radiation Patterns**

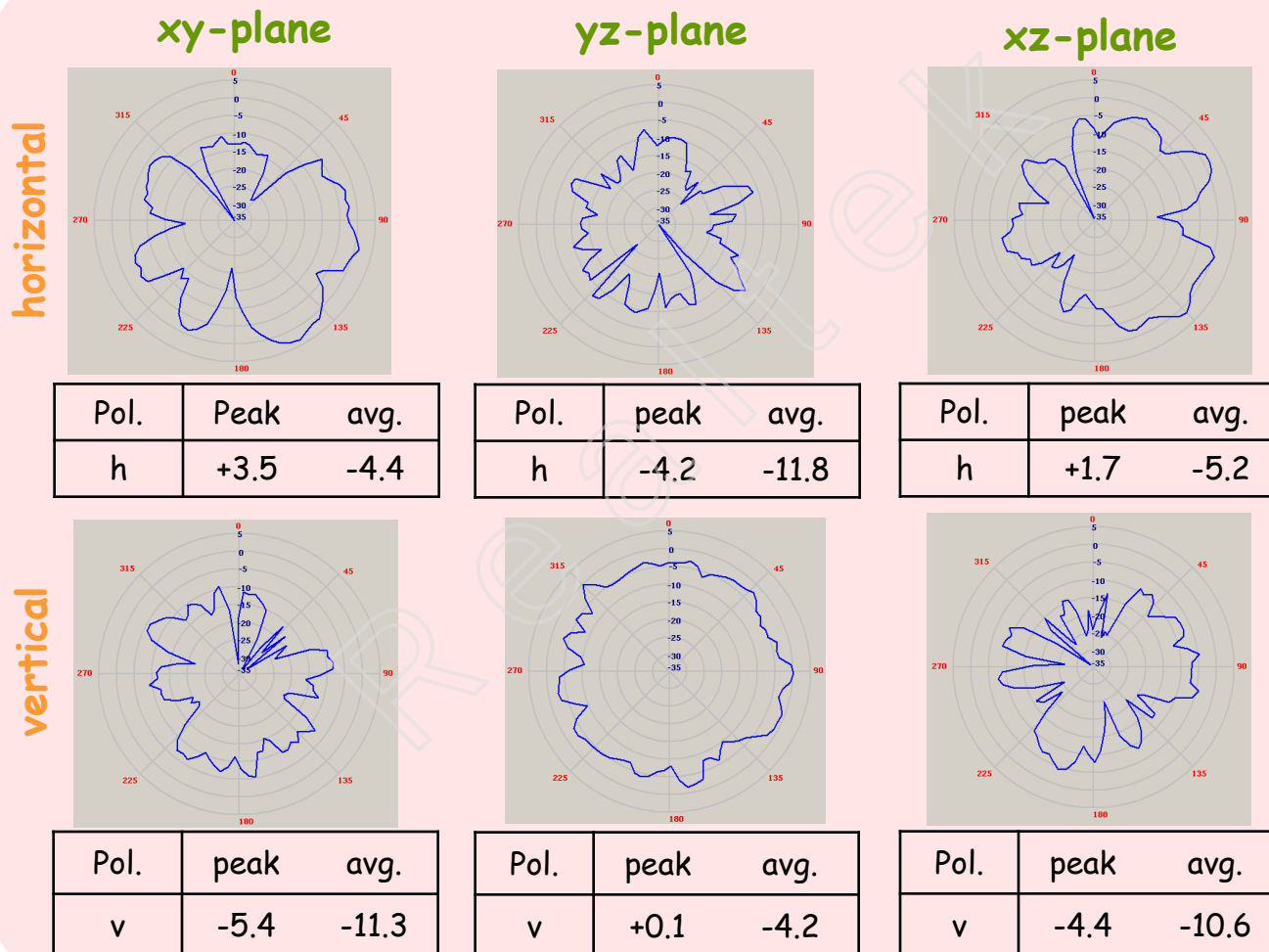
- Frequency : 2400MHz, 2450MHz, 2480MHz, 5150MHz, 5500MHz, 5850MHz and 5925MHz
- Test plane : xy-plane, xz-plane and yz-plane
- Input power : SG 0dBm
- Place: RTK 4F chamber
- Horn h: horizontal polarization
- Horn v: vertical polarization



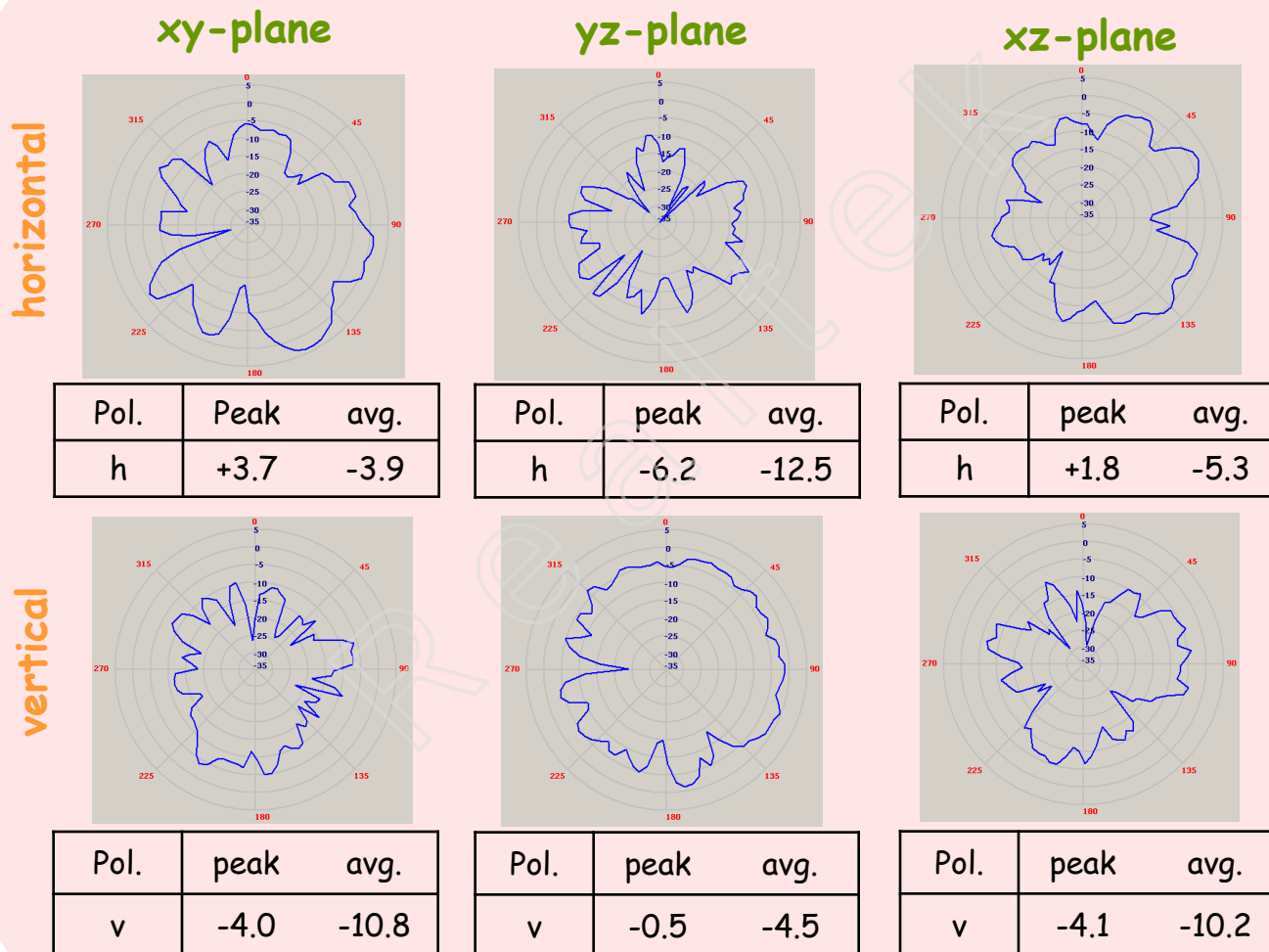
- Radiation Patterns – 2400 MHz



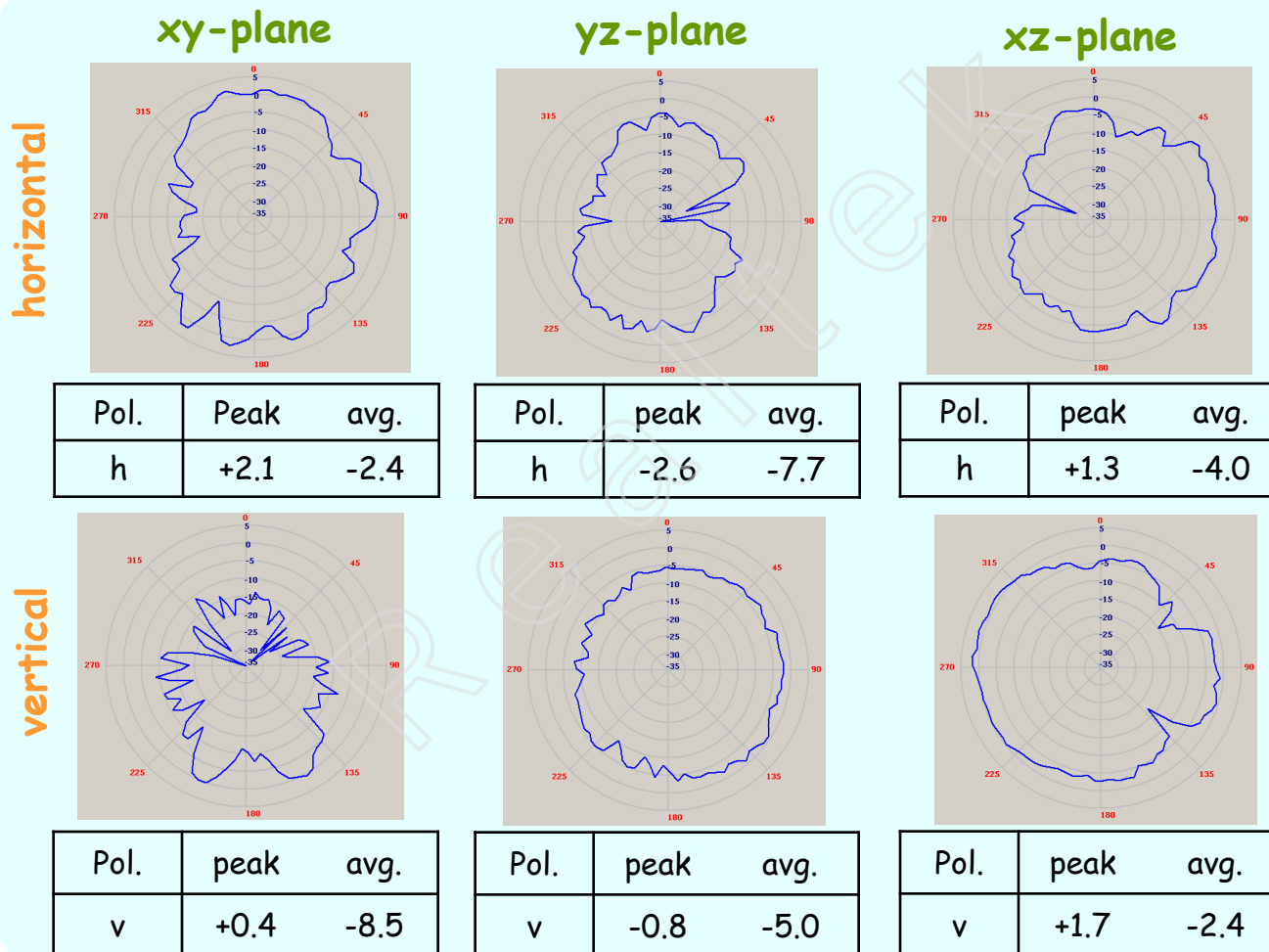
- Radiation Patterns – 2450 MHz



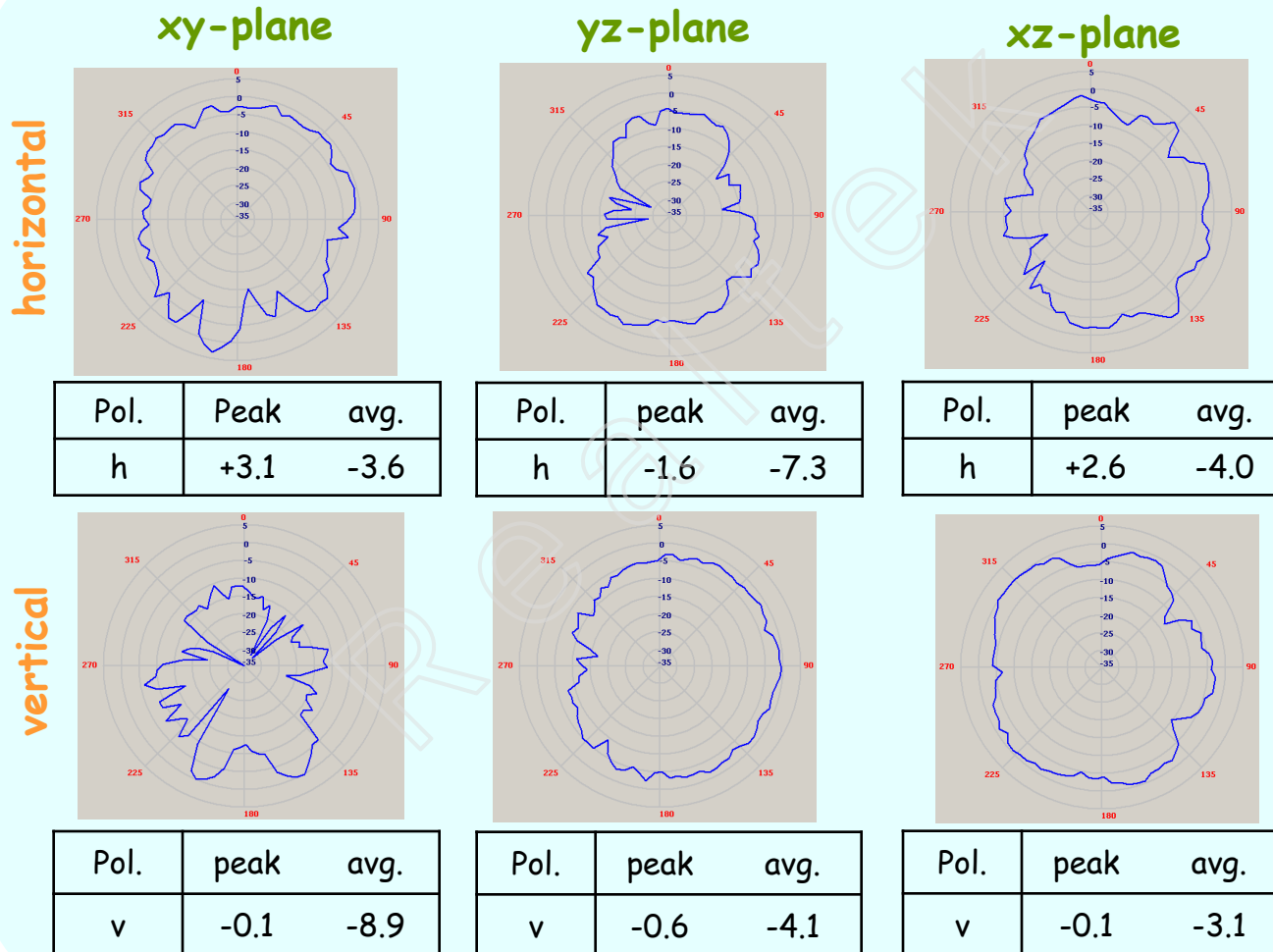
- Radiation Patterns – 2480 MHz



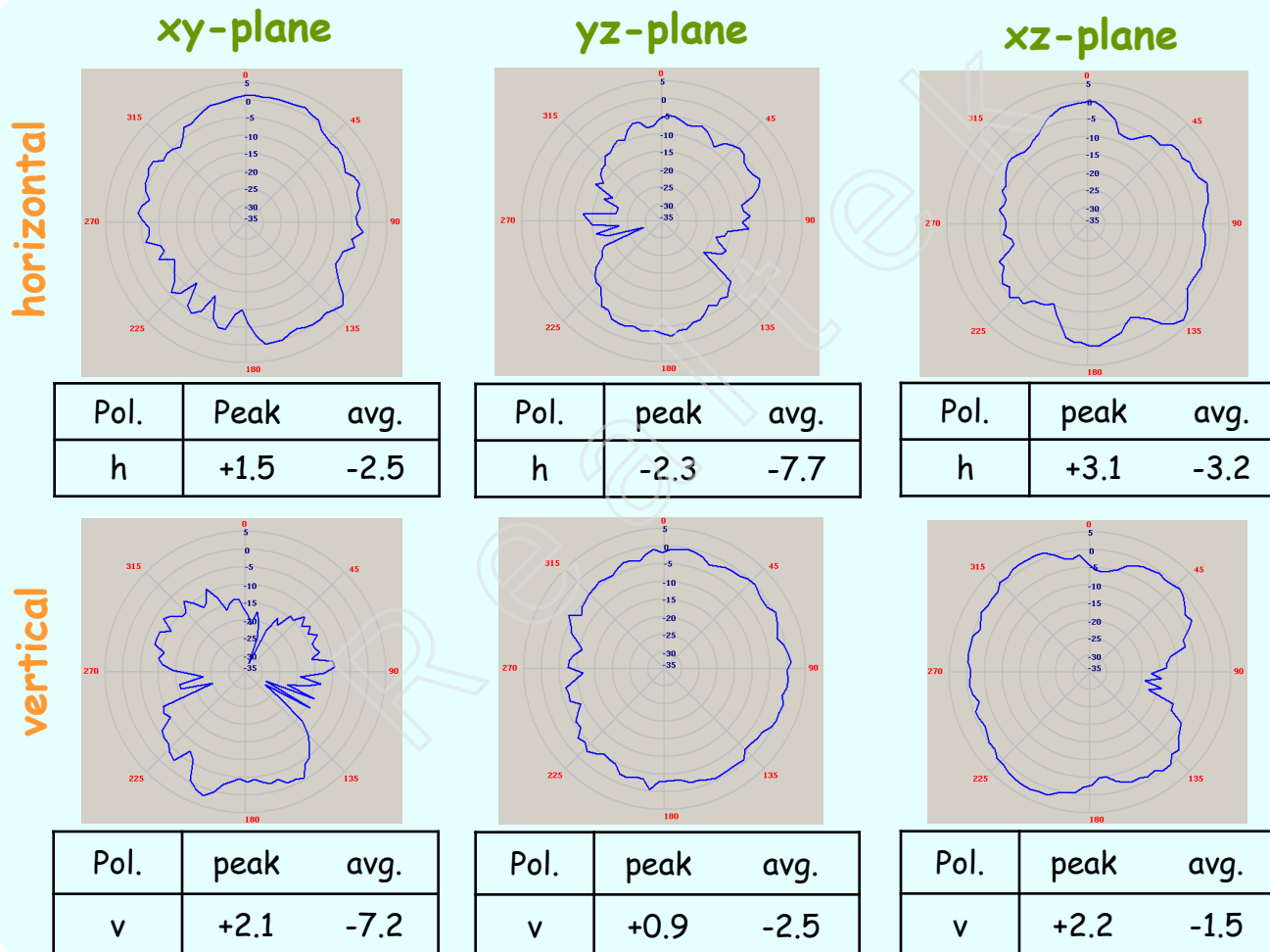
- Radiation Patterns – 5150 MHz



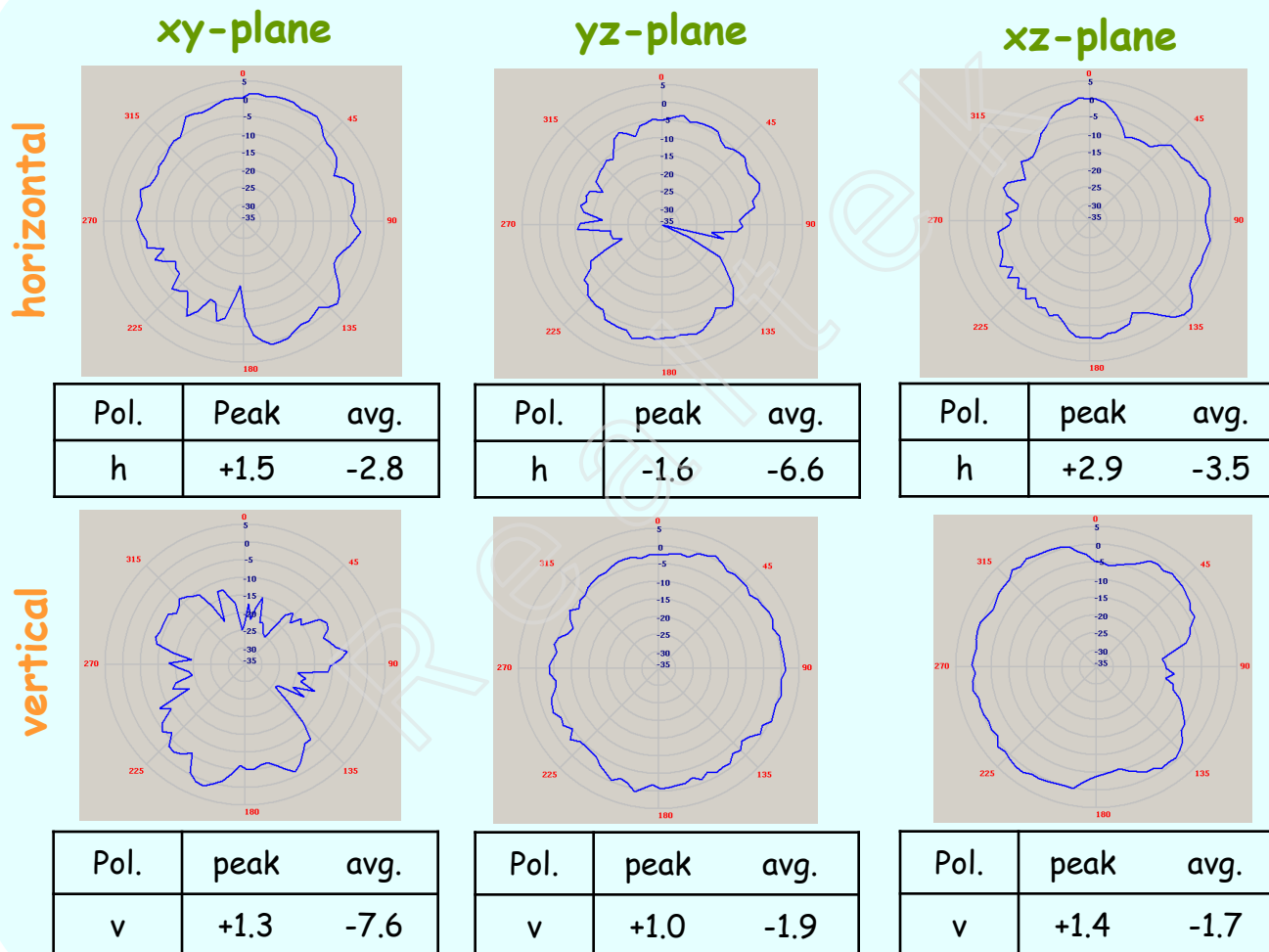
- Radiation Patterns – 5500 MHz



- Radiation Patterns – 5850 MHz



- Radiation Patterns – 5925 MHz



- **Antenna Gain Table**

| Frequency (MHz) | Peak gain (dBi) |
|-----------------|-----------------|
| 2400            | +1.8            |
| 2450            | +3.5            |
| 2480            | +3.7            |

| Frequency (MHz) | Peak gain (dBi) |
|-----------------|-----------------|
| 5150            | +2.1            |
| 5500            | +3.1            |
| 5850            | +3.1            |
| 5925            | +2.9            |

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