

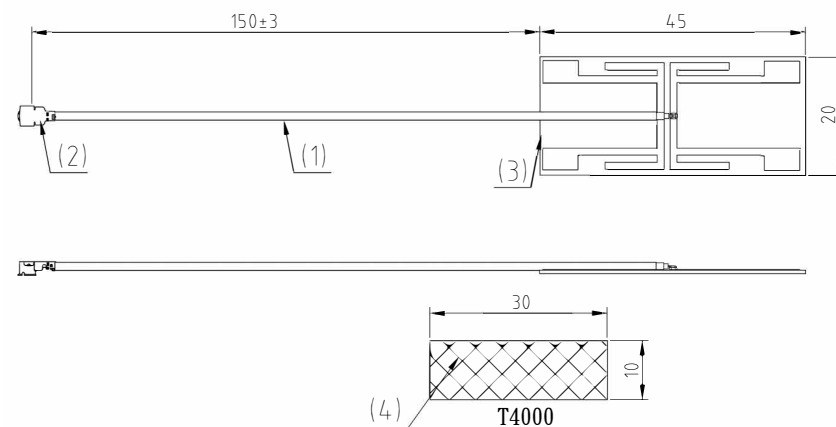
The WAPH-2DB4 Series are easy-to-fit dual band, compact, embedded PCB antennas for a wide variety of wireless applications. The MHF4 connector of this series is omnipresent in communication NGFF (M.2) form-factor WiFi, bluetooth & GPS, cellular and mobile modules.

1. ELECTRICAL SPECIFICATION

- Antenna Type: PCB-Type Antenna
- Frequency Range:
 - 2.4GHz~2.5GHz
 - 4.9GHz~5.85GHz
- V.S.W.R: $\leq 2.0 : 1$
- Impedance: 50ohm nominal
- Normal Gain: $< 2.5\text{dbi}$ typical
 - 2.4GHz 2.2dbi
 - 5.1GHz 2.4dbi
 - 5.8GHz 2.4dbi
- Return loss: -10dbi max
- Type of Radiation: Omni-directional
- HPBW/Horizontal: 360°
- HPBW/Vertical: 78°
- Polarization: Linear / Vertical
- Electrical Wave: $\frac{1}{2}$
- Connector: MHF4

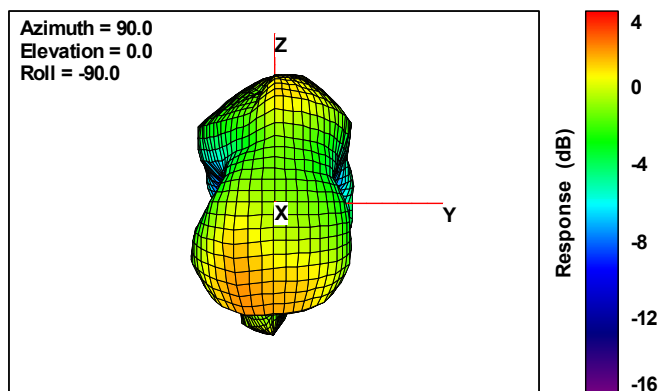
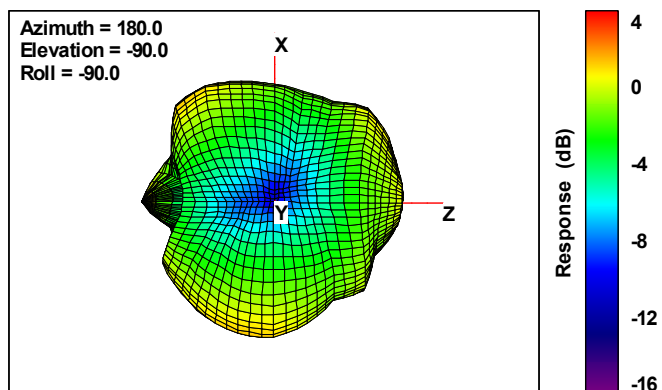
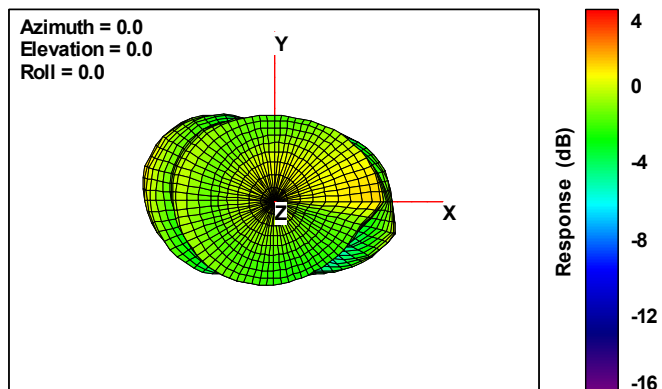
2. MECHANICAL SPECIFICATION

- Antenna Body: FPC
- Color: PCB / black cable
- Operation Temperature: $-40 \sim + 85$ degree
- Storage Temperature: $-40 \sim + 85$ degree
- Operation Humidity: RH 90%
- Storage Humidity: RH 95%
- Weight : 1.2gr max

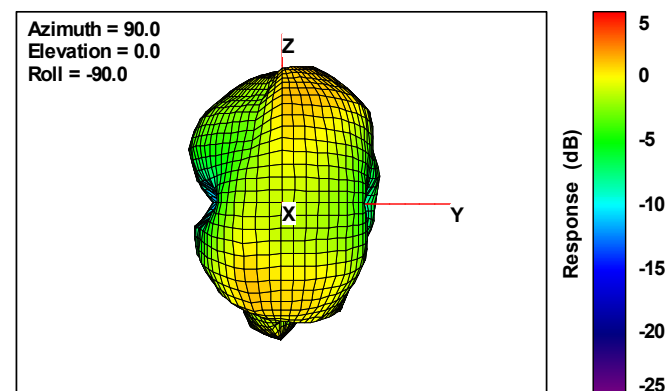
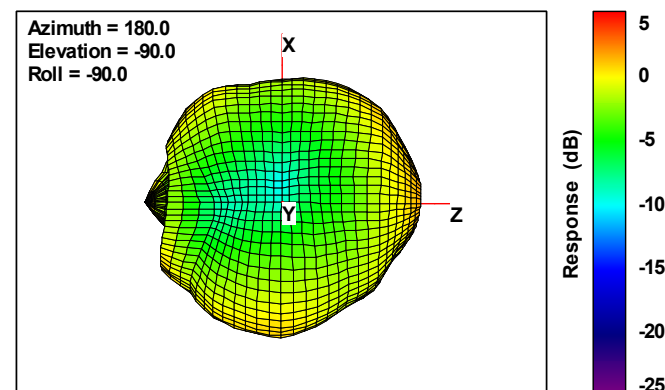
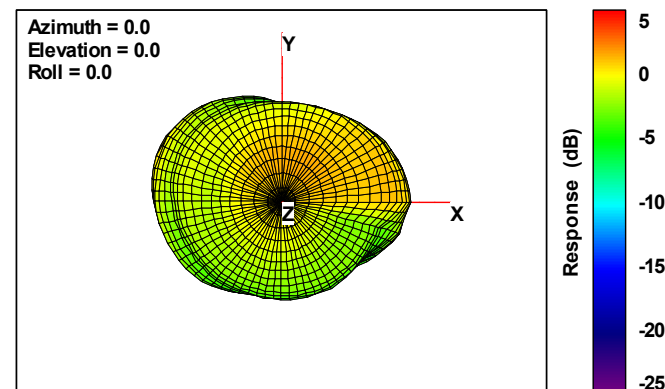


WAPH-2DB4-15**4. ANTENNA RADIATION PATTERNS**

2400MHz



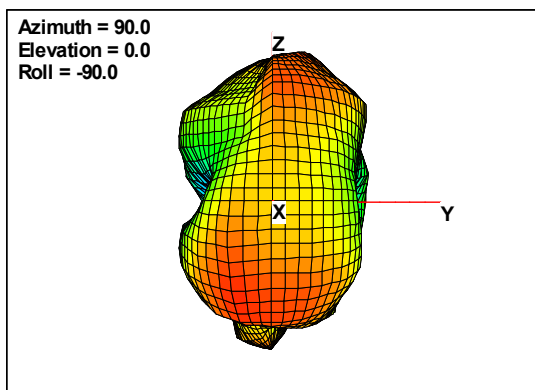
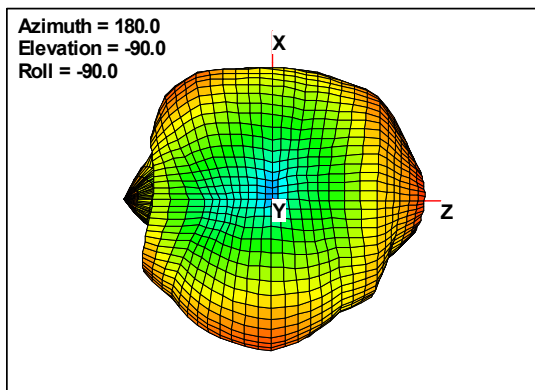
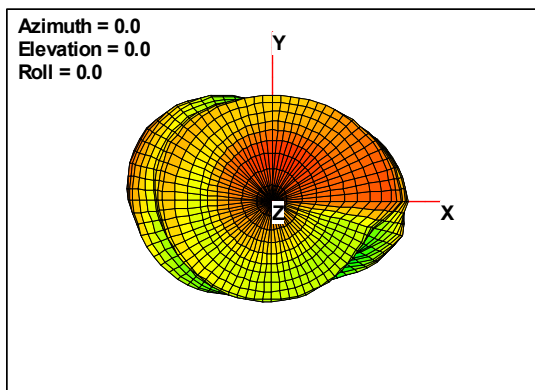
2450MHz



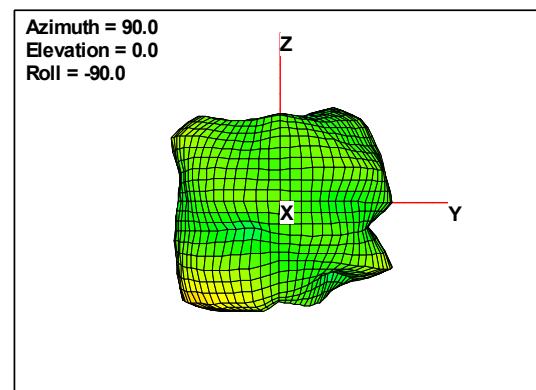
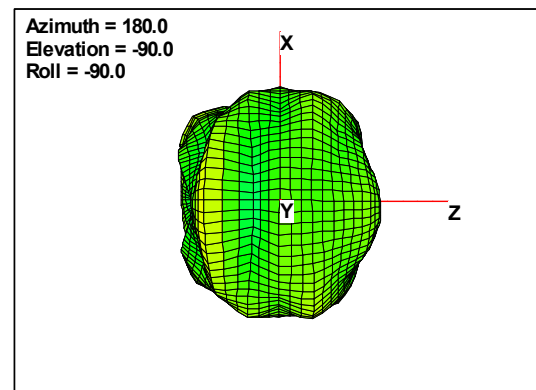
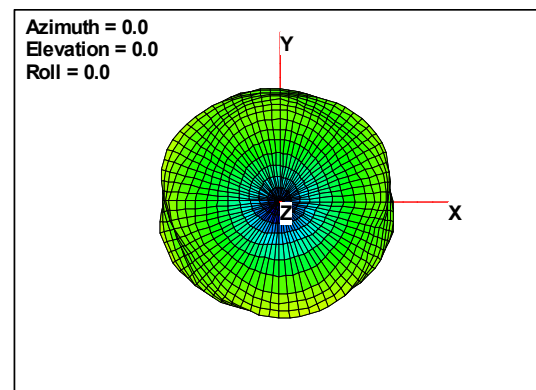
WAPH-2DB4-15

4. ANTENNA RADIATION PATTERNS

2500MHz



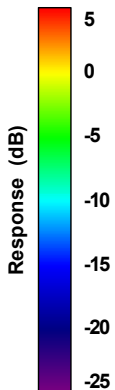
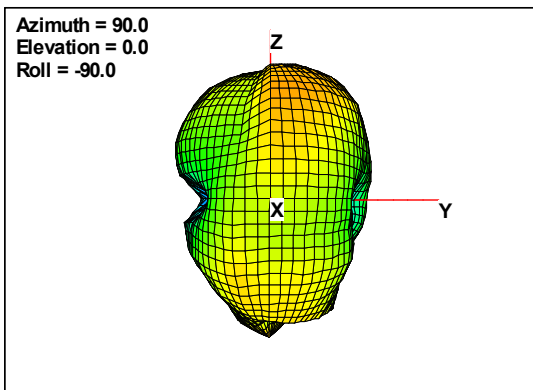
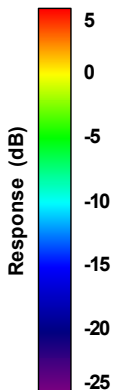
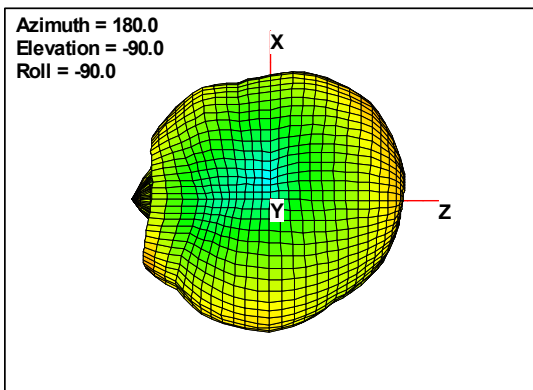
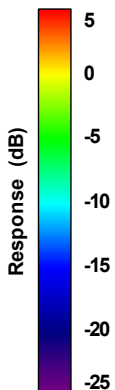
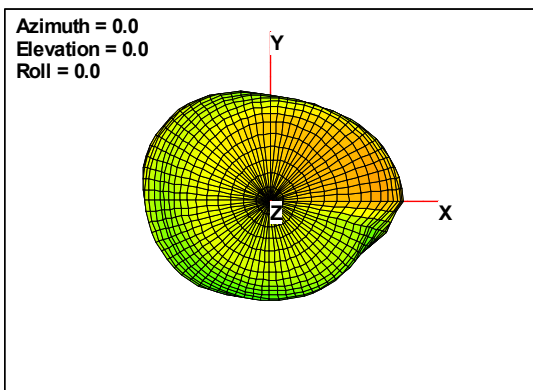
2550MHz



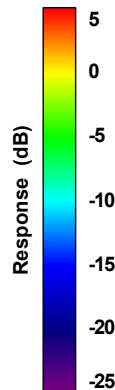
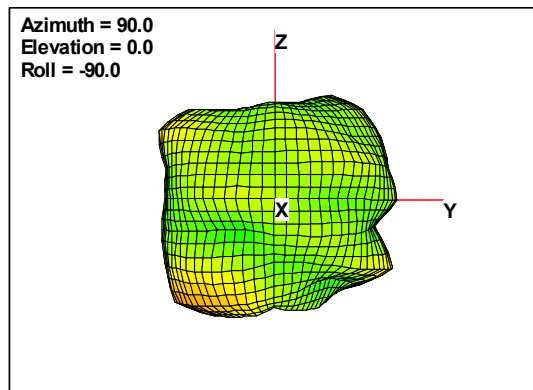
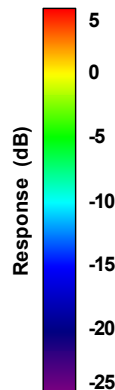
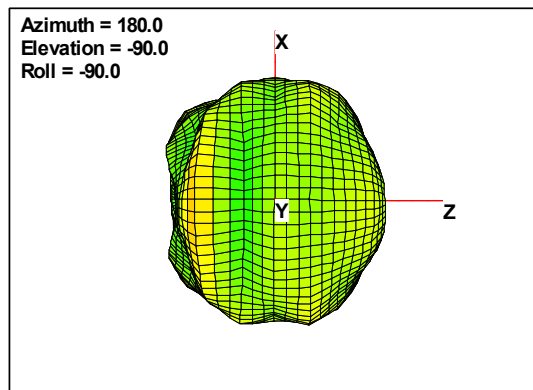
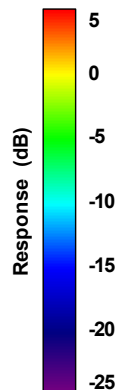
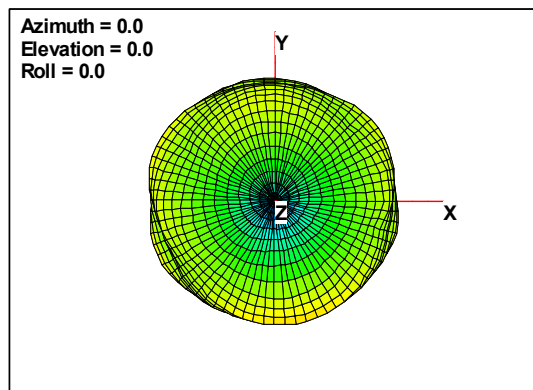
WAPH-2DB4-15

4. ANTENNA RADIATION PATTERNS

2600MHz



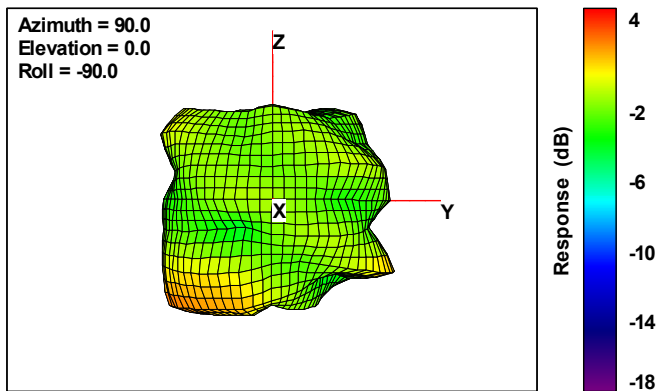
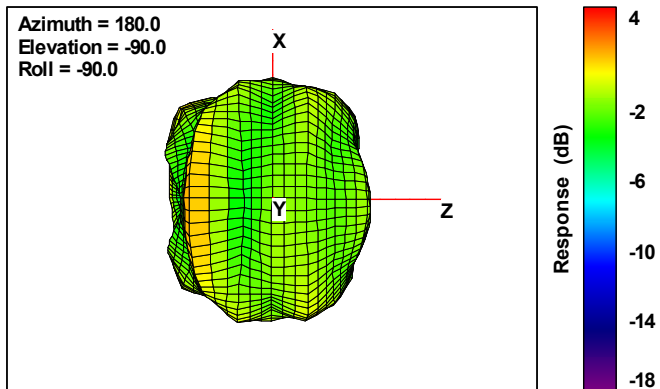
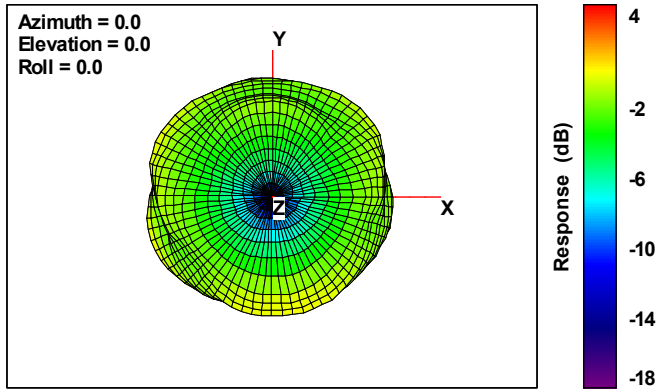
5150MHz



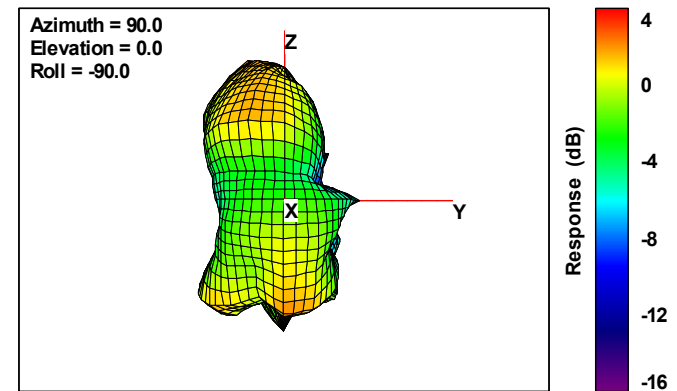
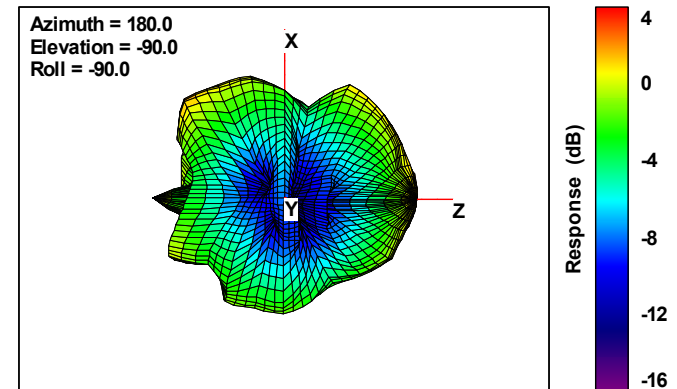
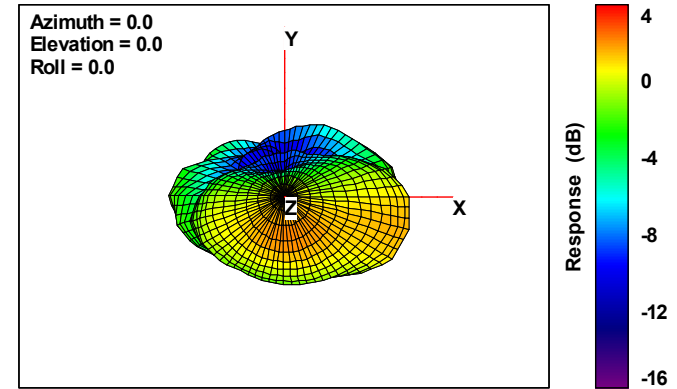
WAPH-2DB4-15

4. ANTENNA RADIATION PATTERNS

5350MHz

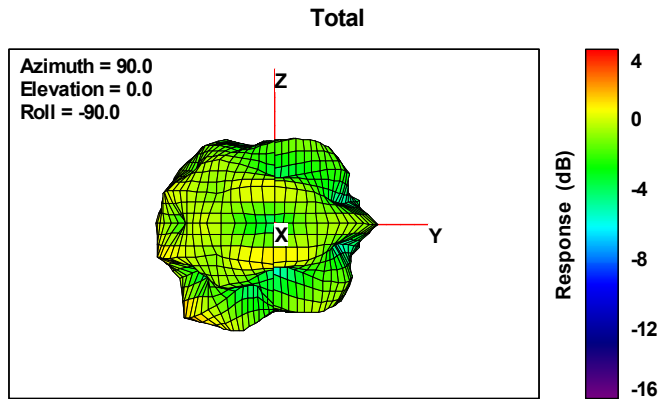
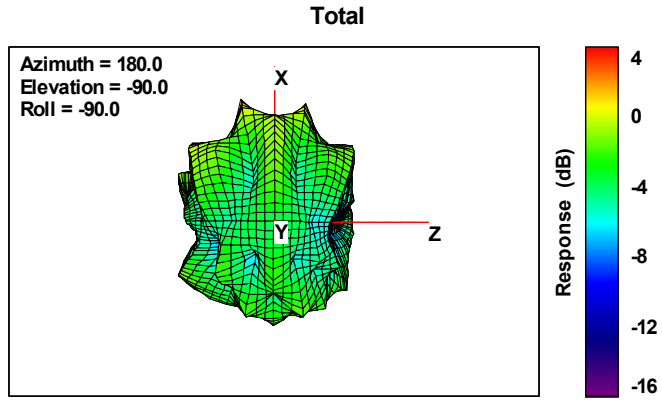
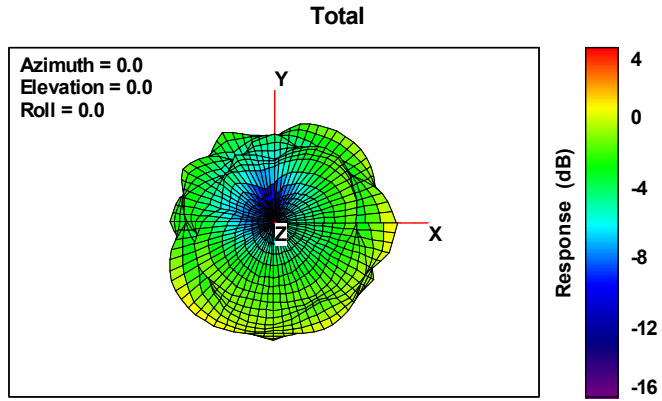


5700MHz

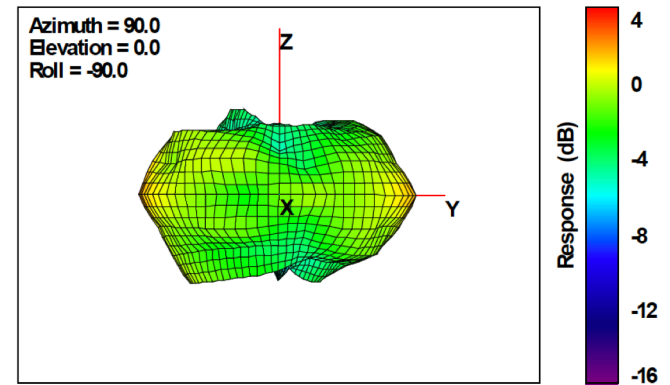
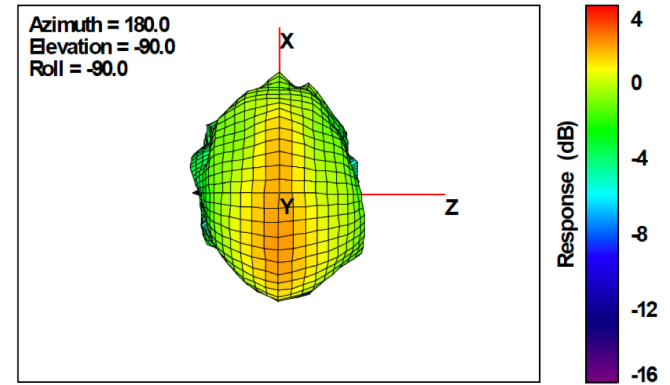
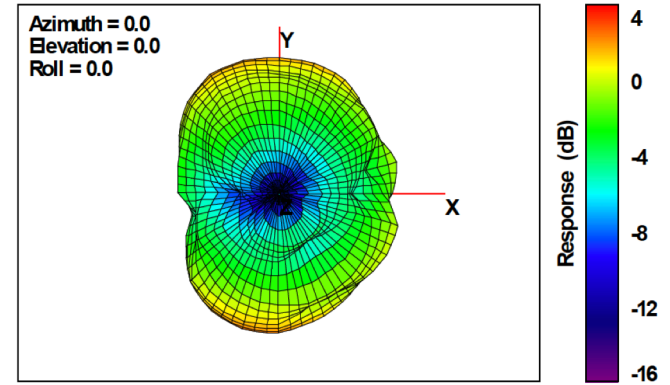


WAPH-2DB4-15

4. ANTENNA RADIATION PATTERNS
5750MHz



5800MHz

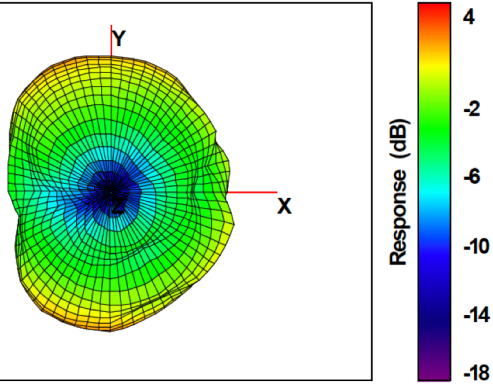


WAPH-2DB4-15

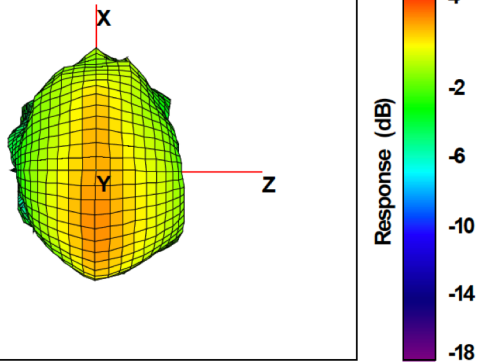
4. ANTENNA RADIATION PATTERNS

5850MHz

Azimuth = 0.0
Elevation = 0.0
Roll = 0.0



Azimuth = 180.0
Elevation = -90.0
Roll = -90.0



Azimuth = 90.0
Elevation = 0.0
Roll = -90.0

