

XAXBY221109

5GNR Connector Mount

Key Features

5GNR

- 617-960 MHz
- 1427-2690 MHz
- 3300-5000 MHz
- 5150-5925 MHz

Connector Mount

Ultra Wide band Antenna

High Performance

Ground Plane Independent

Hinged Connector

Dimensions 220 x 25 x 12.8 mm



1. Antenna and electrical specifications

Parameters	5G NR Antenna			
Technologies	5G, 4G, 3G and 2G			
Standards	5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G			
Frequency (MHz)	617-960	1427-2690	3300-5000	5150-5925
Band (MHz)	600, 700, 850, 900	1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600	3300, 3500, 3600, 3700, 4500	5200, 5500, 5800
5G NR Bands	n5, n8, n12, n20, n28, n71, n81, n82, n83,	n1, n2, n3, n7, n25, n34, n38, n39, n40, n41, n50, n51, n66, n70, n74, n75, n76, n80, n84, n86	n77, n78, n79	
4G LTE Bands	B5, B6, B8, B12, B13, B14, B17, B18, B19, B20, B26, B27, B28, B29, B44, B67, B68, B71, B85	B1, B2, B3, B4, B7, B9, B10, B11, B21, B23, B24, B25, B30, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B45, B50, B51, B65, B66, B69, B70, B74, B75, B76	B22, B42, B43, B48, B49, B52	B46, B47, B252, B255
3G CELL Bands	B5, B6, B8, B12, B13, B14, B19, B20, B26	B1, B2, B3, B4, B7, B9, B10, B11, B21, B25, B32, B33, B34, B35, B36, B37, B38, B39, B40	B22	
2G CELL Bands	710, 750, 810T, 850, 900P, 900E, 900R	1800DCS, 1900PCS		
CDMA CELL Bands	BC0, BC2, BC3, BC7, BC9, BC10, BC12, BC18, BC19	BC1, BC4, BC6, BC8, BC13, BC14, BC15, BC16, BC20, BC21		
Return Loss (dB)	~-11.2	~-10.7	~-11.4	~-8.8
VSWR	~2.0:1	~2.6:1	~2.3:1	~2.2:1
Efficiency (%)	~37.6	~43.3	~35.1	~41.9
Peak Gain (dBi)	~-1.1	~-0.5	~-0.3	~-1.6
Average Gain (dB)	~-4.3	~-3.8	~-4.6	~-3.8
Impedance (Ohm)	50			
Polarisation	Linear			
Radiation Pattern	Omni-Directional			
Max. Input Power (W)	25			
Connector Type	SMA-Male			

Antenna Measurement Conditions:

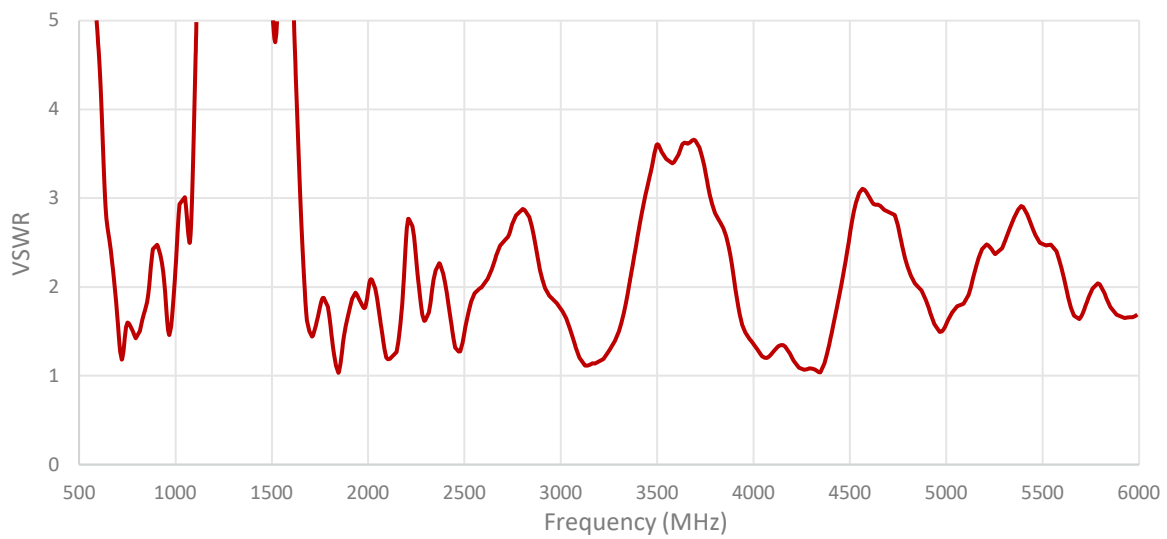
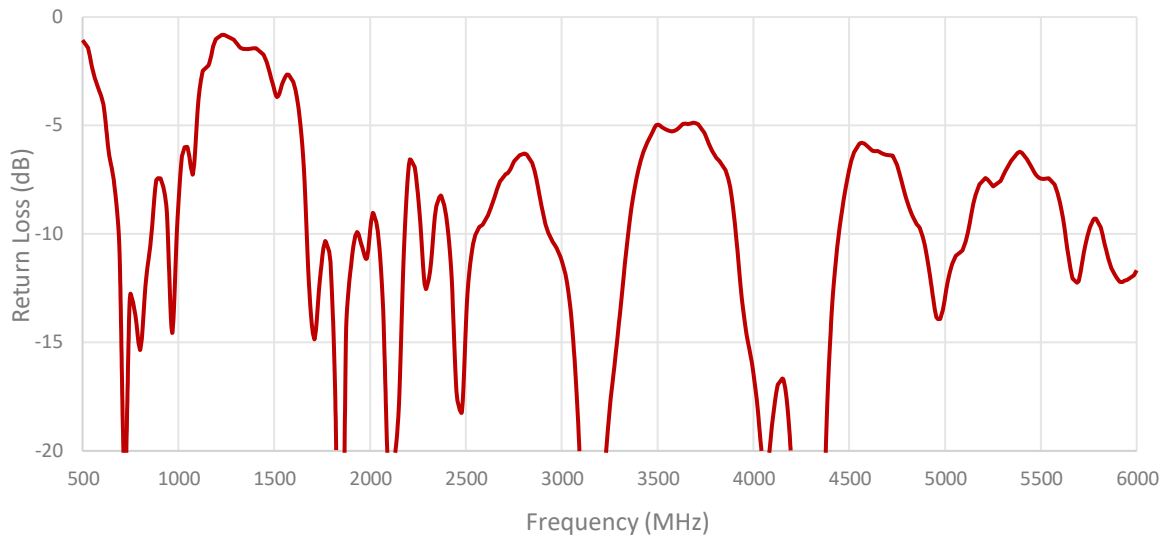
Free Space

Measured in Certified CTIA 3D Anechoic Chamber

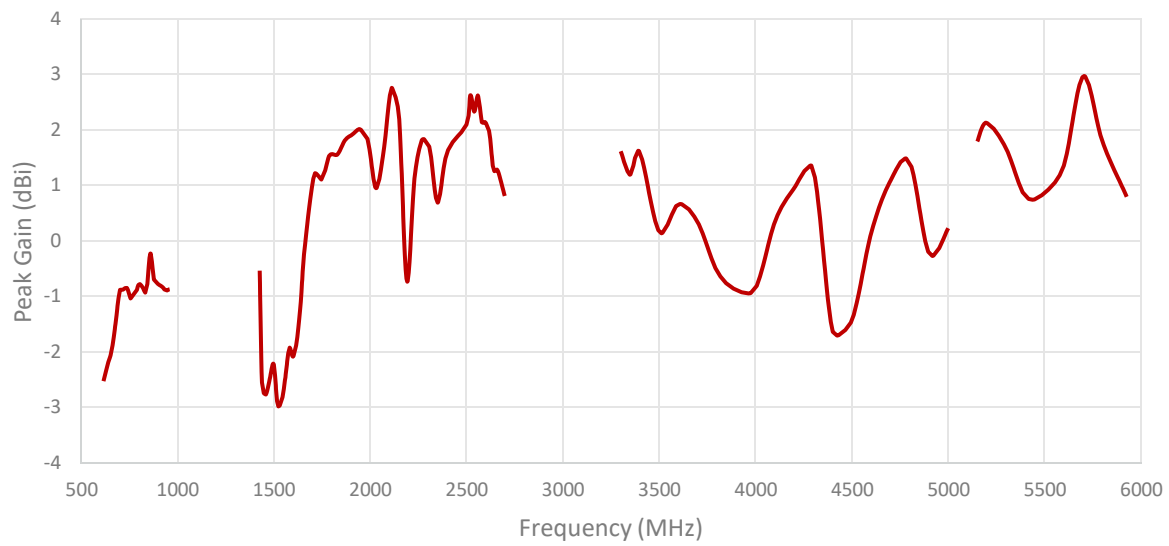
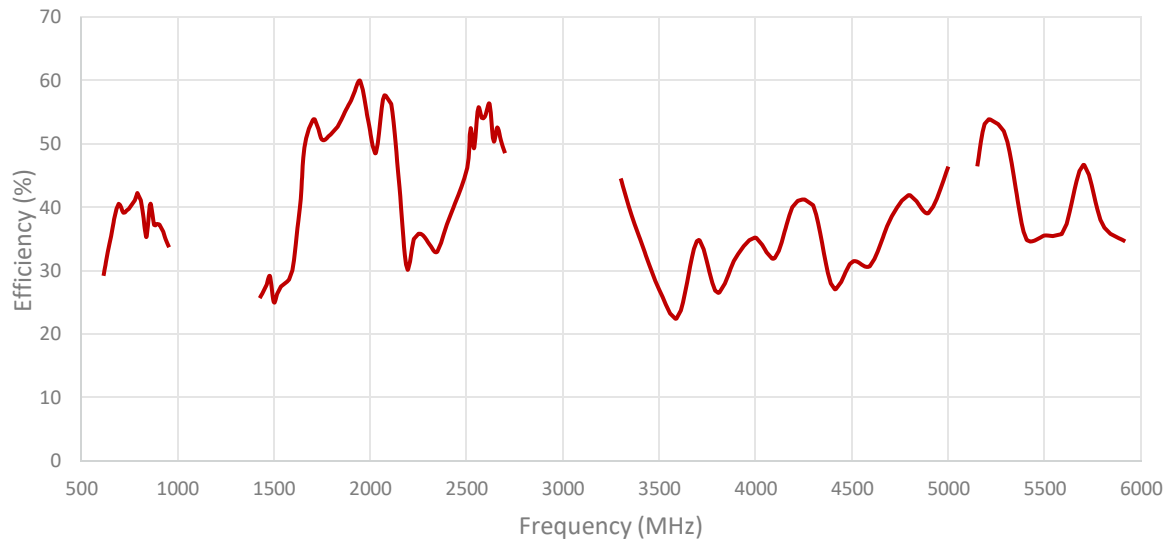
2. Mechanical and environmental specifications

Specifications	XAXBY221109
Mounting Type	Connector Mount
Dimensions (mm)	220 x25 x12.8
Radome	PC/ABS UV Stable
Radome color	Black
Connector Feature	Hinged
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

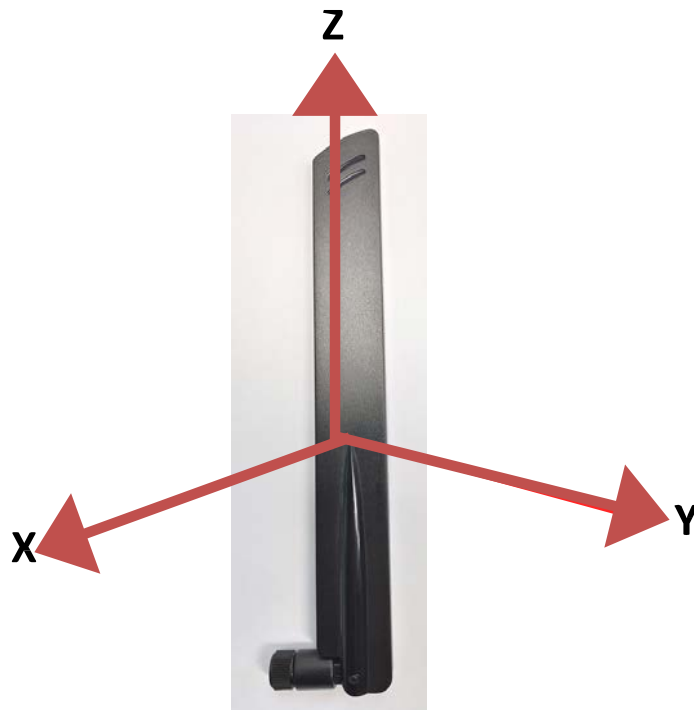
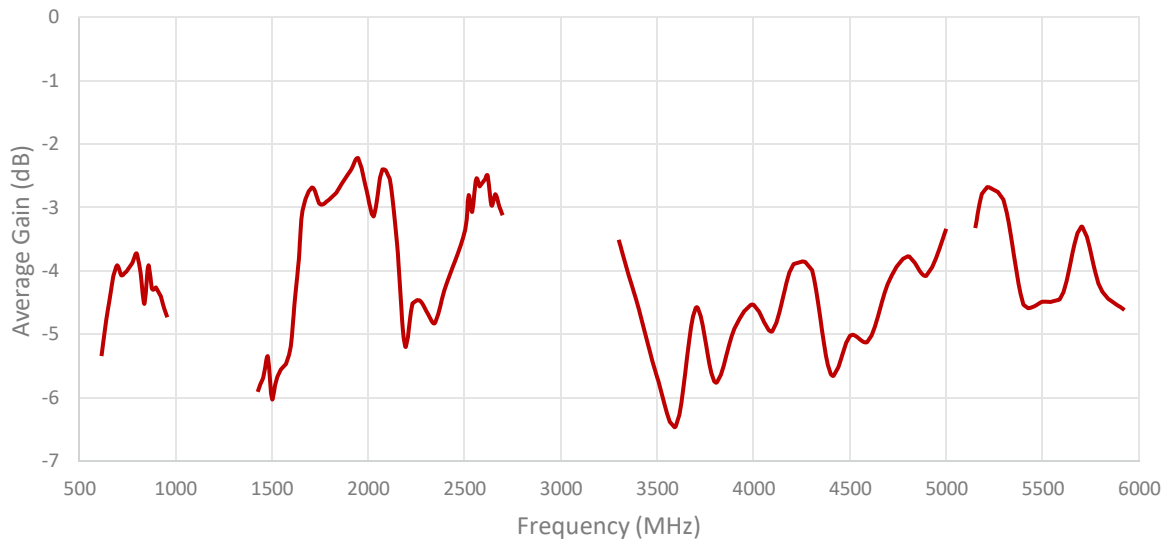
3. Antenna parameters



Antenna Connector

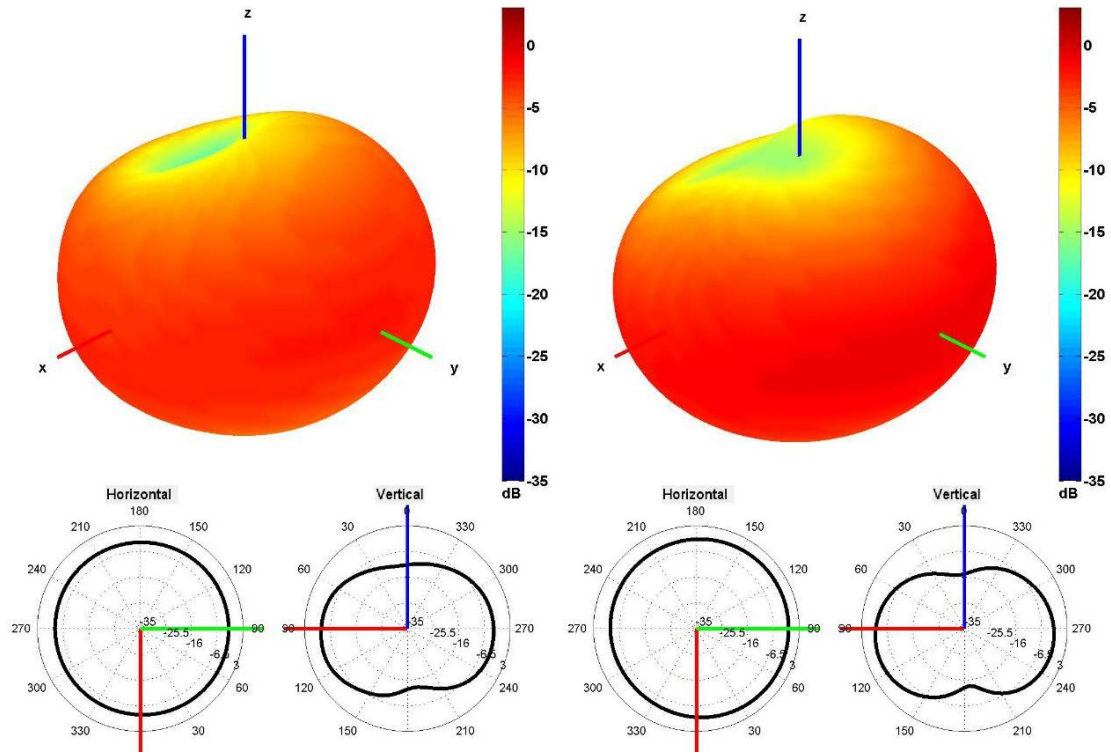


Antenna Connector

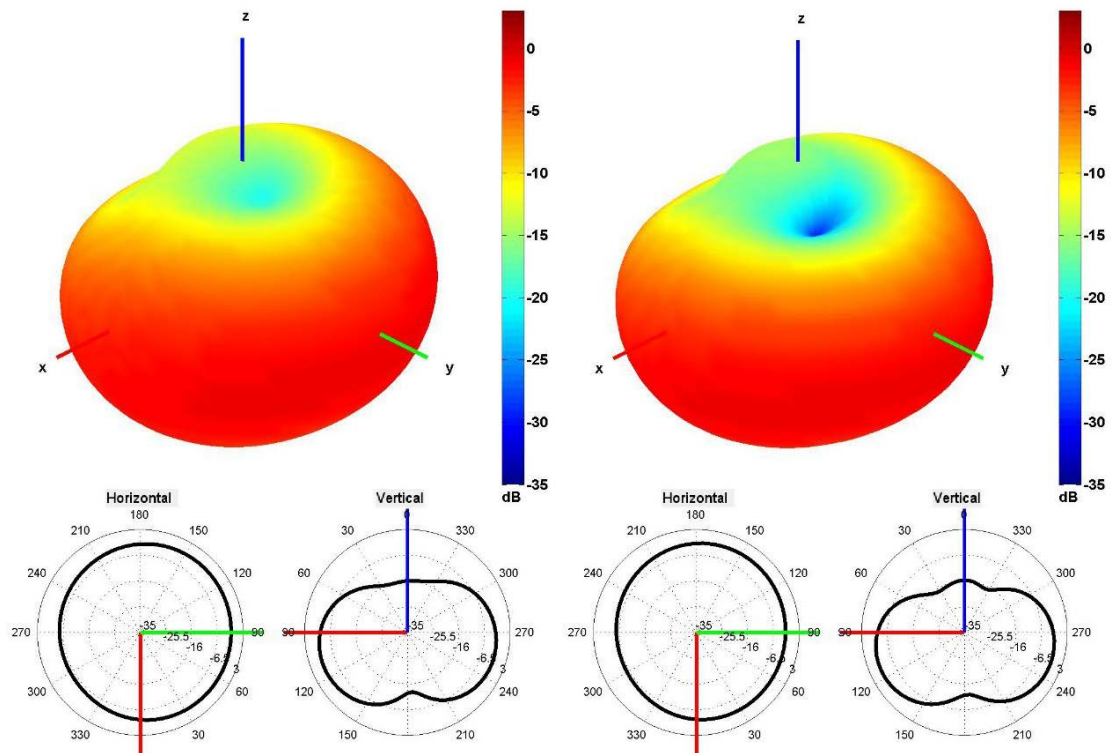


Radiation pattern reference

Antenna Connector

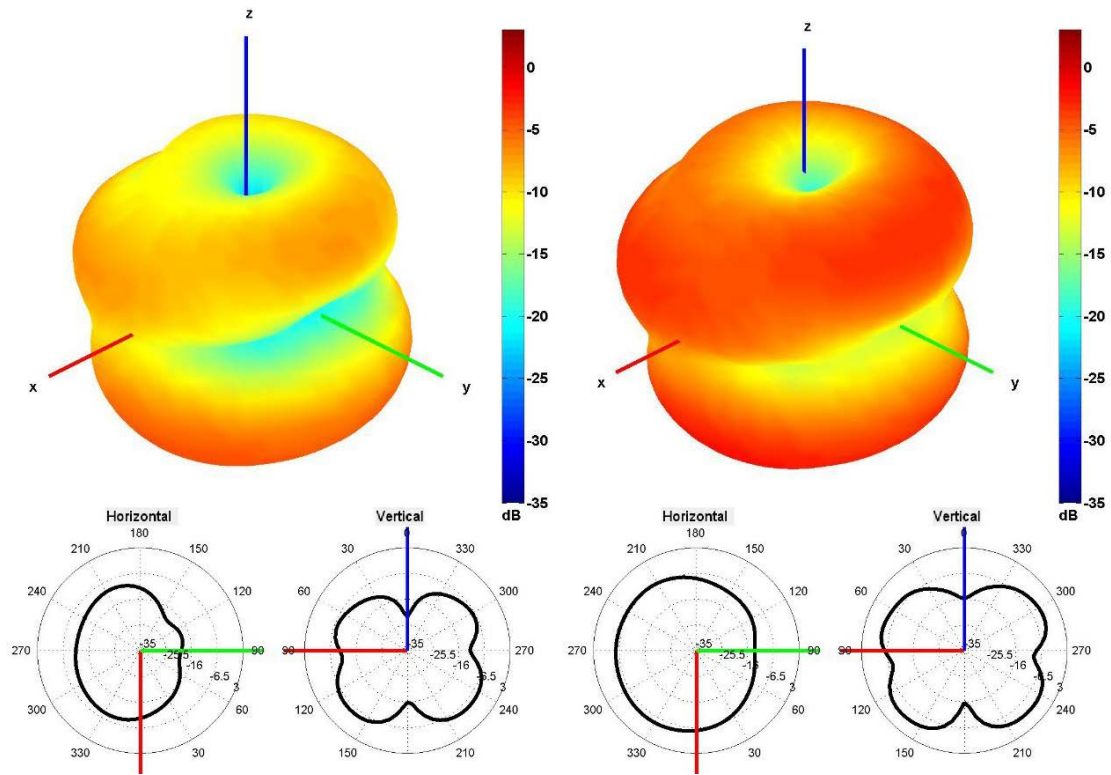


650 and 750 MHz Radiation pattern

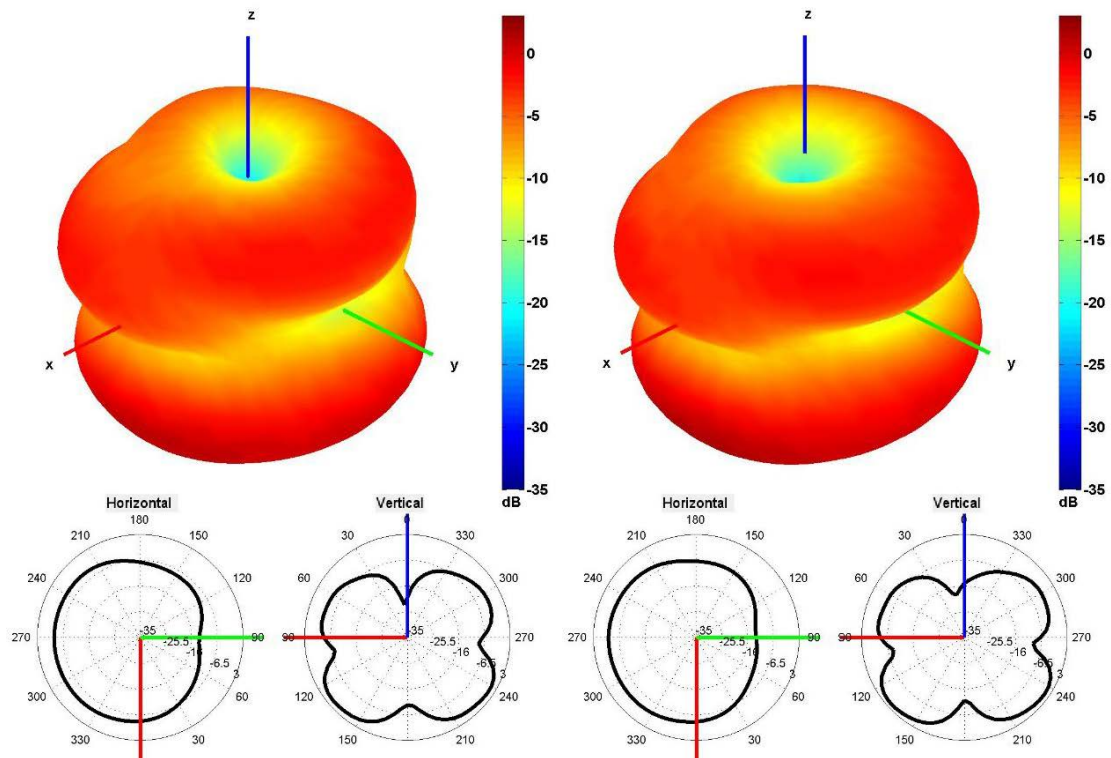


850 and 940 MHz Radiation pattern

Antenna Connector

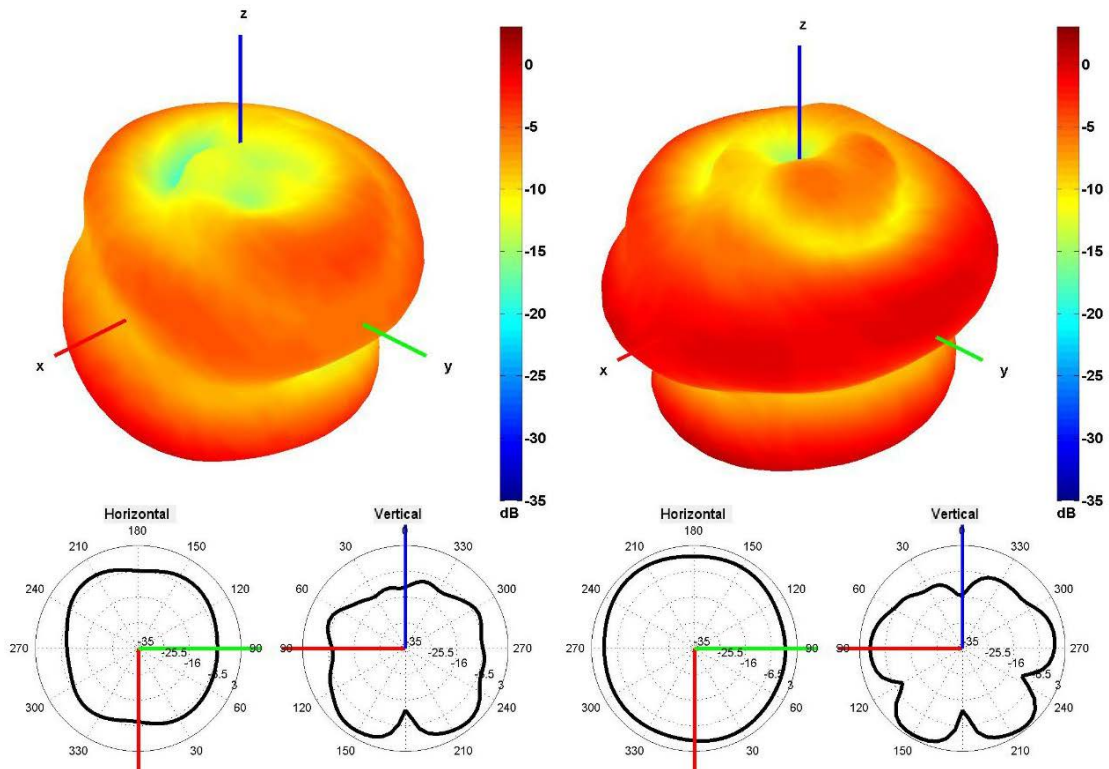
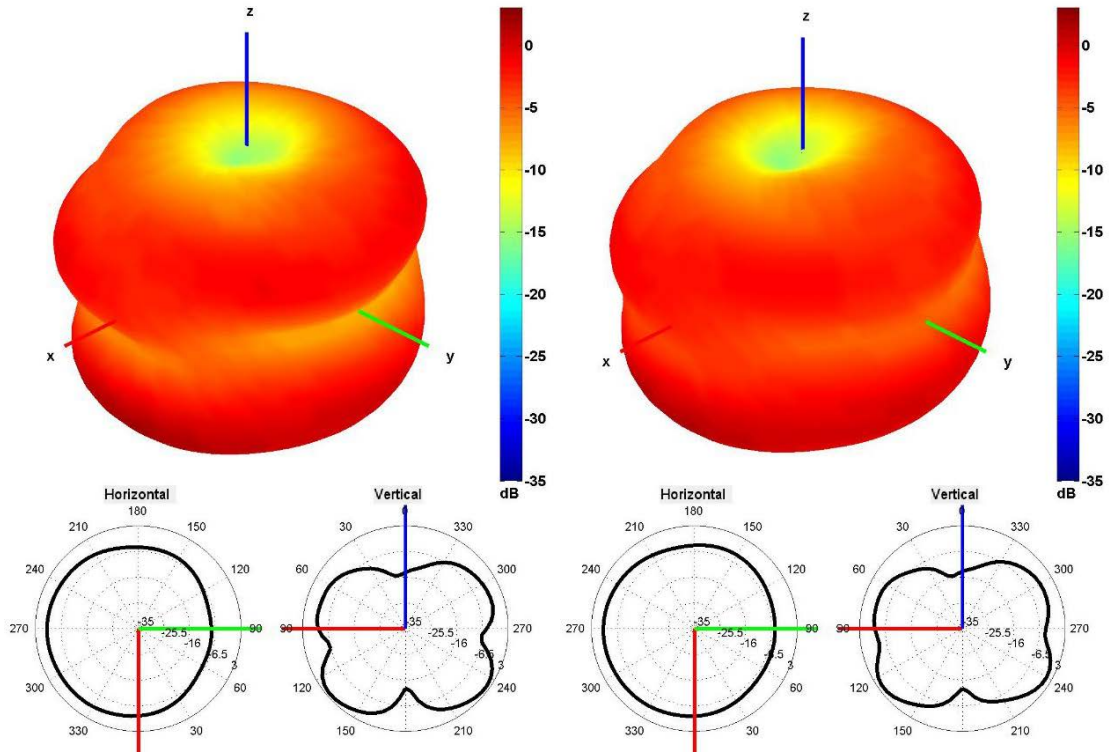


1500 and 1600 MHz Radiation pattern

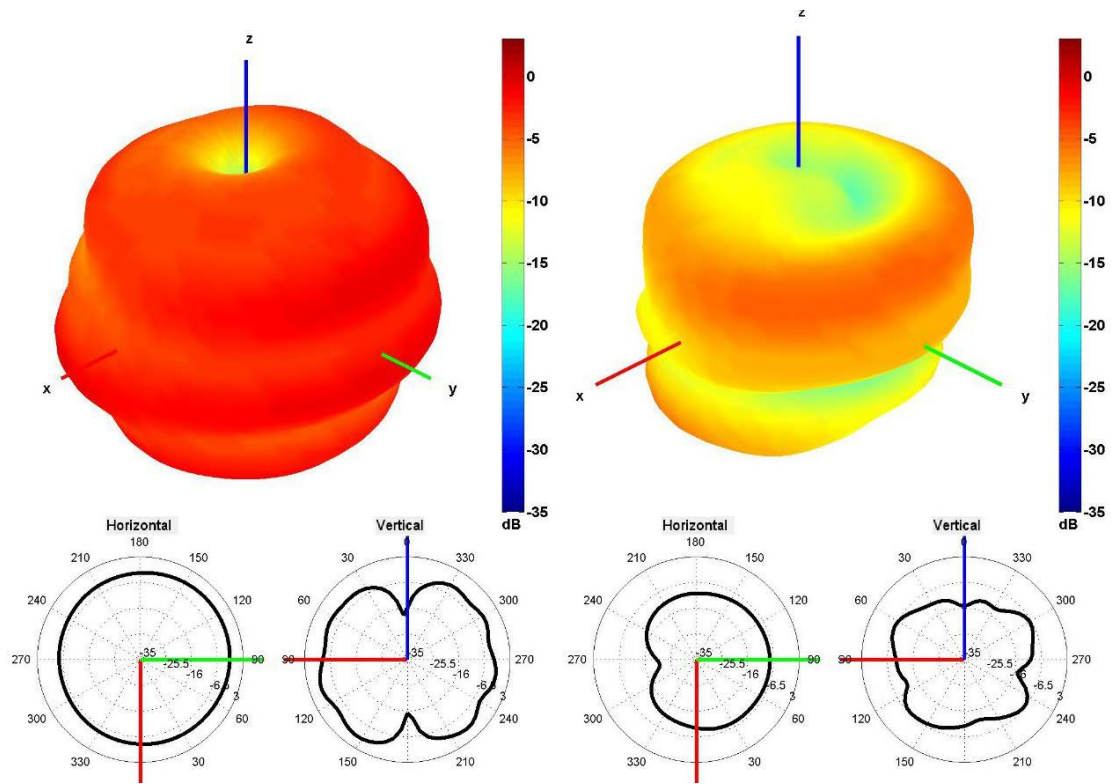


1750 and 1850 MHz Radiation pattern

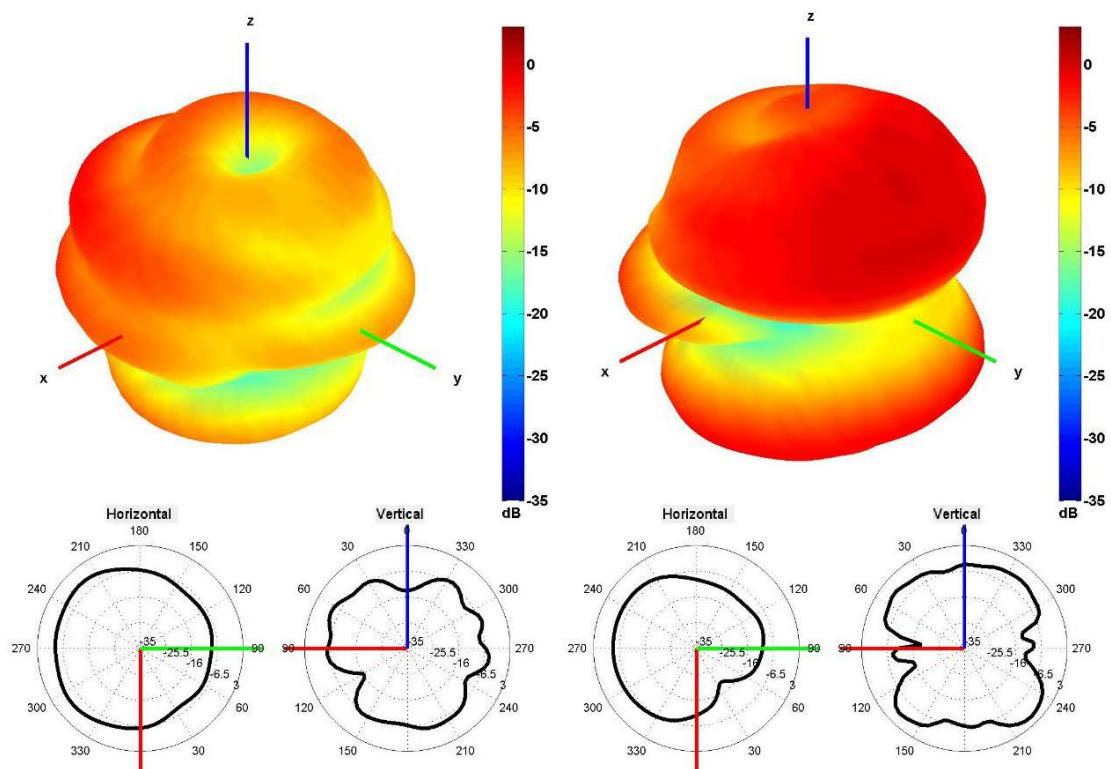
Antenna Connector



Antenna Connector

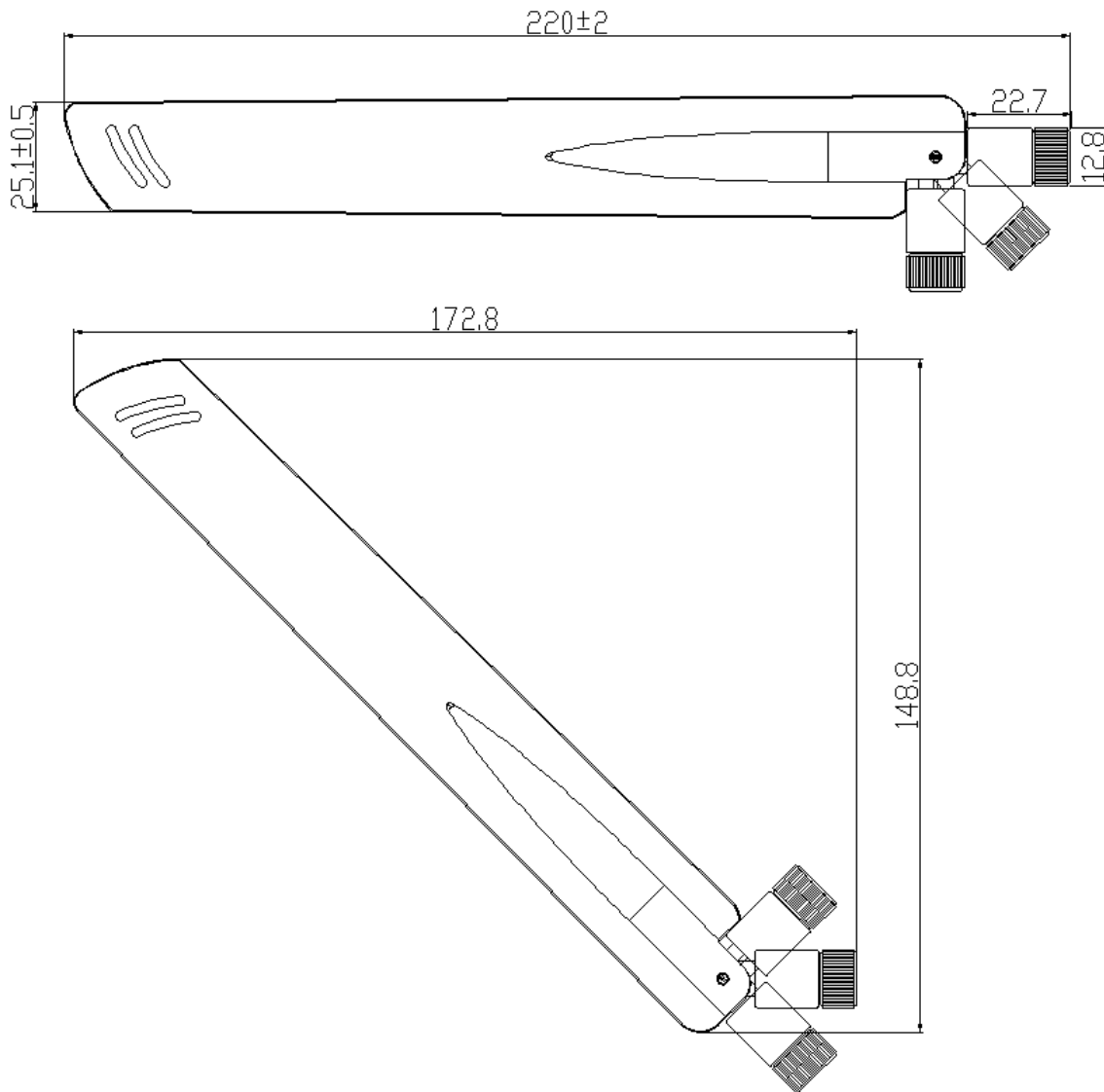


3350 and 3600 MHz Radiation pattern



4500 and 5500 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

