

# 2JP1180P

## 5GNR/UHF Rigid Fiberglass Adhesive Mount

### Key Features

#### 5GNR/UHF

- 410-496 MHz
- 617-960 MHz
- 1427-2690 MHz
- 3300-5000 MHz
- 5150-5925 MHz

Self-Adhesive

Ultra Wideband

High Performance

Fiberglass Material

Ground Plane Independent

Dimensions 155 × 19.5 × 0.9 mm

Customizable Cable and Connector



## 1. Antenna and electrical specifications

Parameters	5G NR Antenna				
<b>Technologies</b>	5G, 4G, 3G and 2G				
<b>Standards</b>	5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G/UHF				
<b>Frequency (MHz)</b>	410-496	617-960	1427-2690	3300-5000	5150-5925
<b>Band (MHz)</b>	460	600, 700, 850, 900	1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600	3300, 3500, 3600, 3700, 4500	5200, 5500, 5800
<b>5G NR Bands</b>		n5, n8, 12, 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	
<b>4G LTE Bands</b>	B31, B72, B73, B87, B88	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
<b>3G CELL Bands</b>		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	
<b>2G CELL Bands</b>	410T, 450, 480	710, 750, 810T, 850, 900P, 900E, 900R	1800DCS, 1900PCS		
<b>CDMA CELL Bands</b>	BC5, BC11	BC0, BC2, BC3, BC7, BC9, BC10, BC12, BC18, BC19	BC1, BC4, BC6, BC8, BC13, BC14, BC15, BC16, BC20, BC21		
<b>Return Loss (dB)</b>	~-5.9	~-14.1	~-13.2	~-9.3	~-9.1
<b>VSWR</b>	~3.1:1	~1.5:1	~1.7:1	~2.6:1	~2.6:1
<b>Efficiency (%)</b>	~26.0	~53.0	~63.8	~31.5	~30.8
<b>Peak Gain (dBi)</b>	~-3.2	~1.6	~4.2	~0.4	~2.7
<b>Average Gain (dB)</b>	~-6.0	~-2.8	~-2.0	~-5.7	~-5.5
<b>Impedance (Ohm)</b>	50				
<b>Polarisation</b>	Linear				
<b>Radiation Pattern</b>	Omni-Directional				
<b>Max. Input Power (W)</b>	25				
<b>Connector Type</b>	U.FL Standard (Other Connectors Available)				
<b>Cable Length</b>	180mm Standard (Any Cable Length Available)				
<b>Cable Type</b>	1.37mm Mini-Coax Standard (Other Cables Available)				

### Antenna Measurement Conditions:

Mounted on 30 x 30 x 0.25 cm ABS Plate

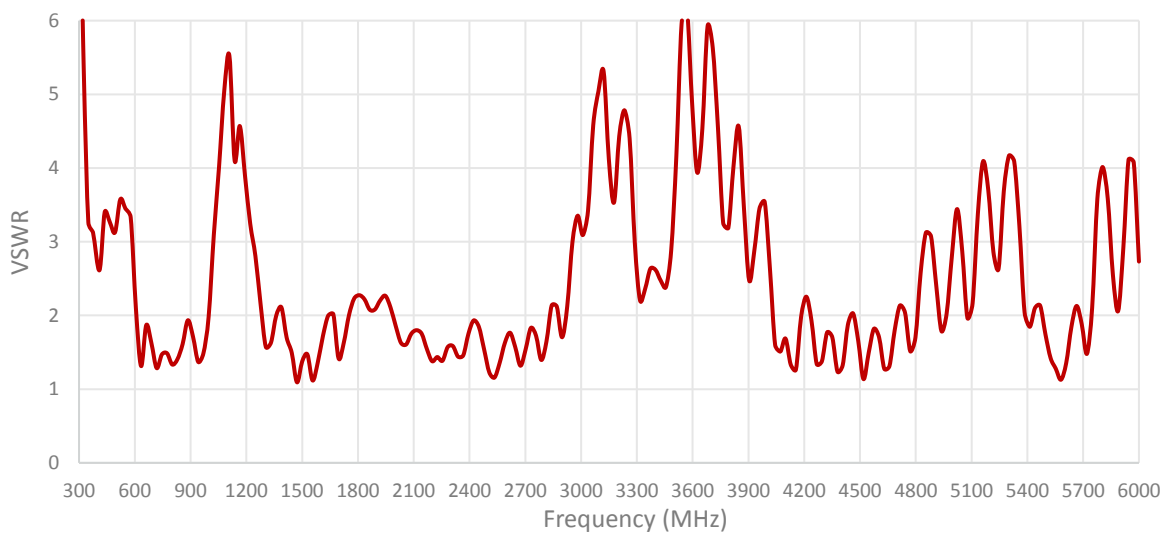
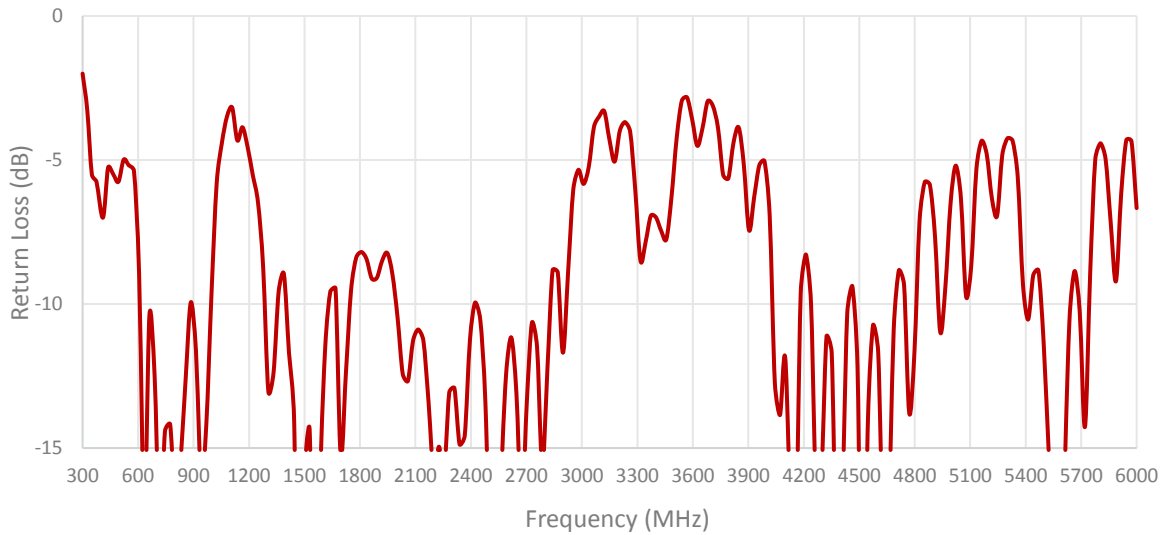
180 mm of 1.37 mm Mini-Coax Cable

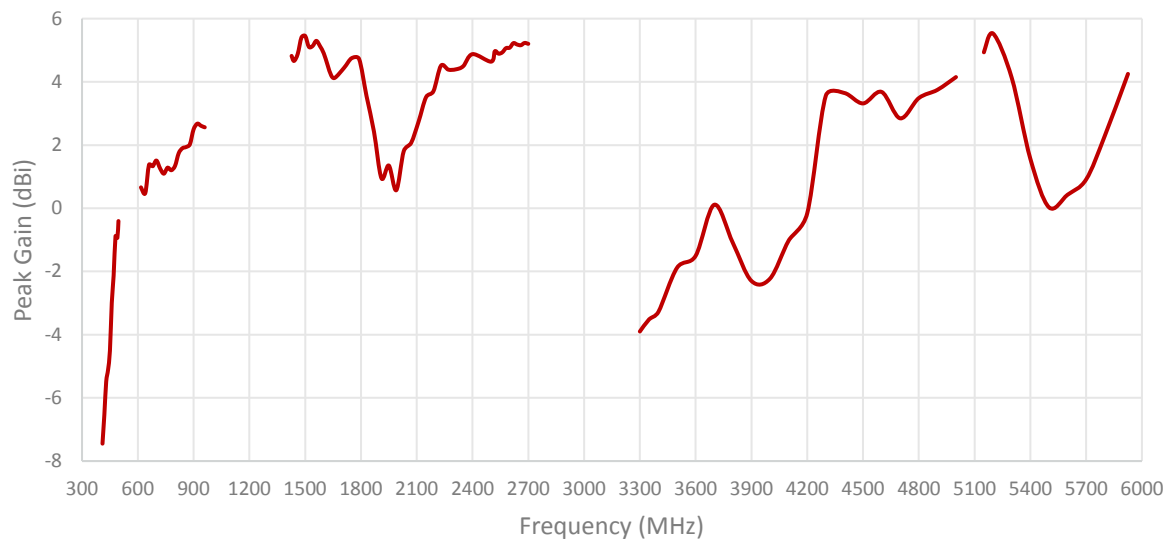
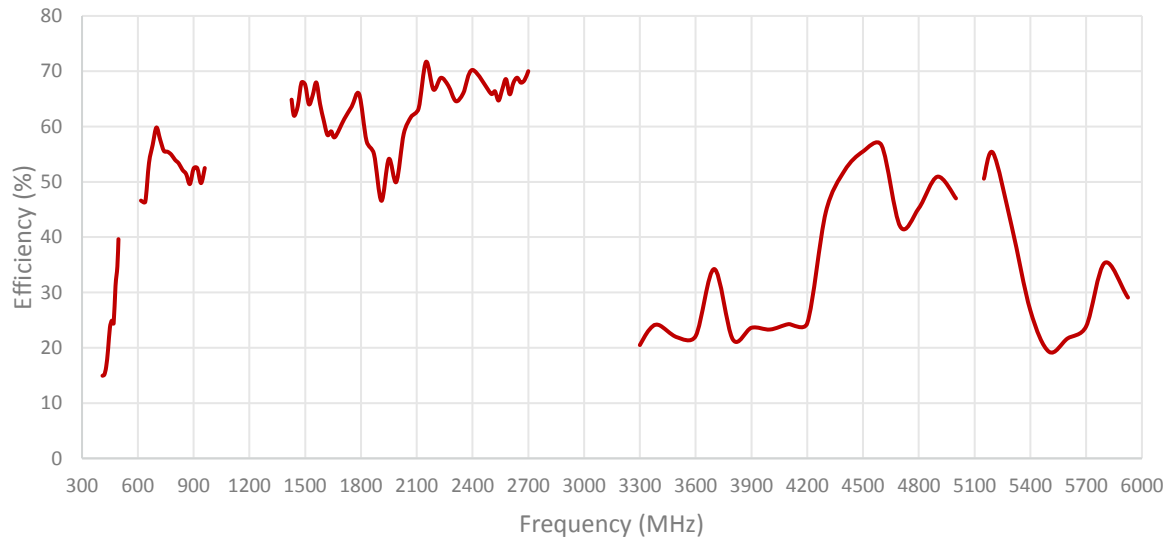
Measured in Certified CTIA 3D Anechoic Chamber

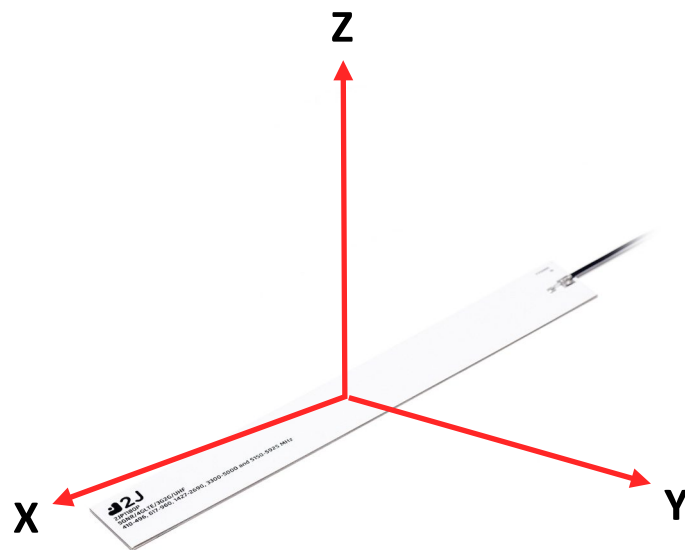
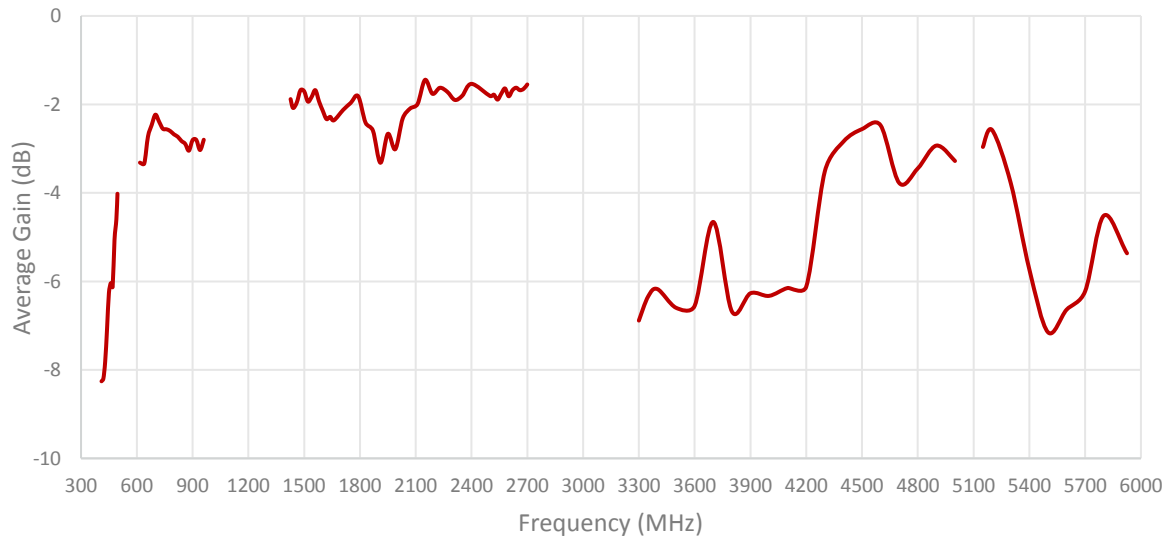
## 2. Mechanical and environmental specifications

Specifications	2JP1180P
<b>Mounting Type</b>	Adhesive Mount
<b>Dimensions (mm)</b>	155 × 19.5 × 0.9
<b>Material</b>	Rigid Fiberglass
<b>Radome color</b>	White
<b>Operating Temperature (C)</b>	-40 to +85
<b>Storage Temperature (C)</b>	-40 to +85
<b>Storage Relative Humidity (%)</b>	Up to 93 at 30 C
<b>Substance Compliance</b>	RoHS

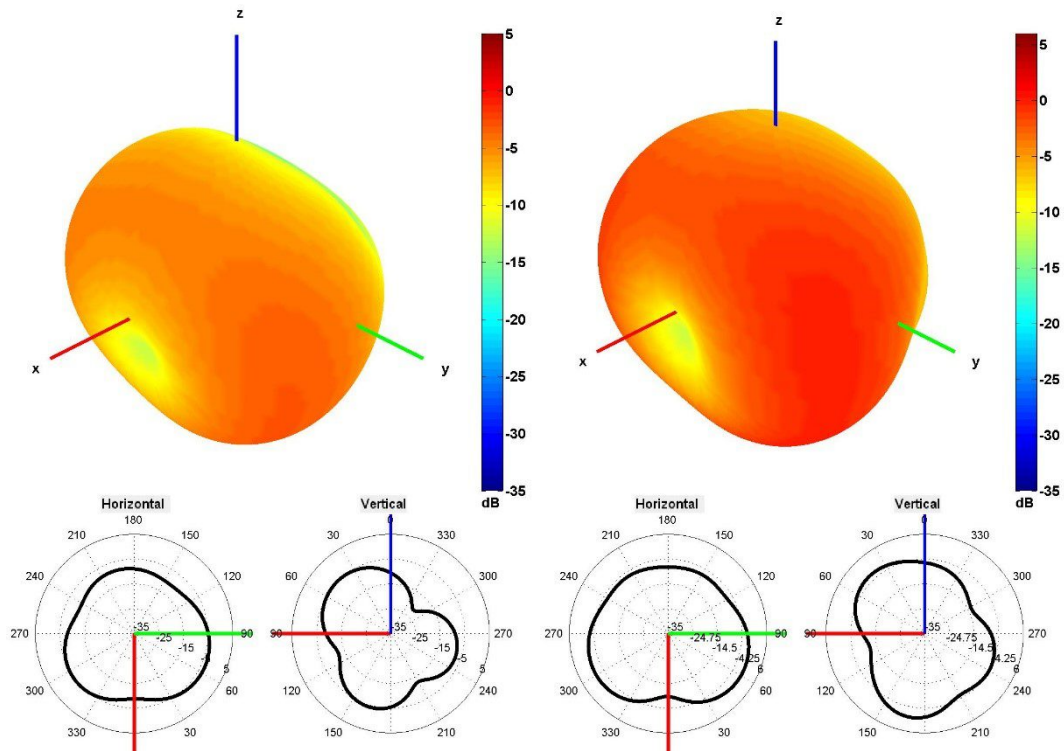
## 3. Antenna parameters



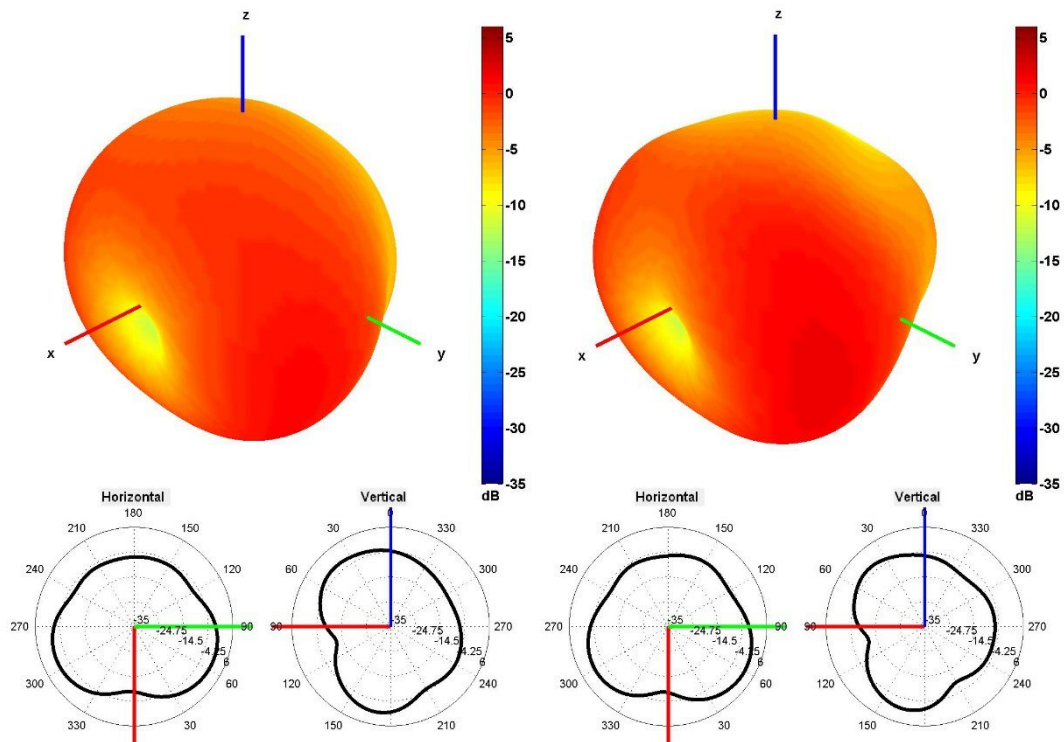




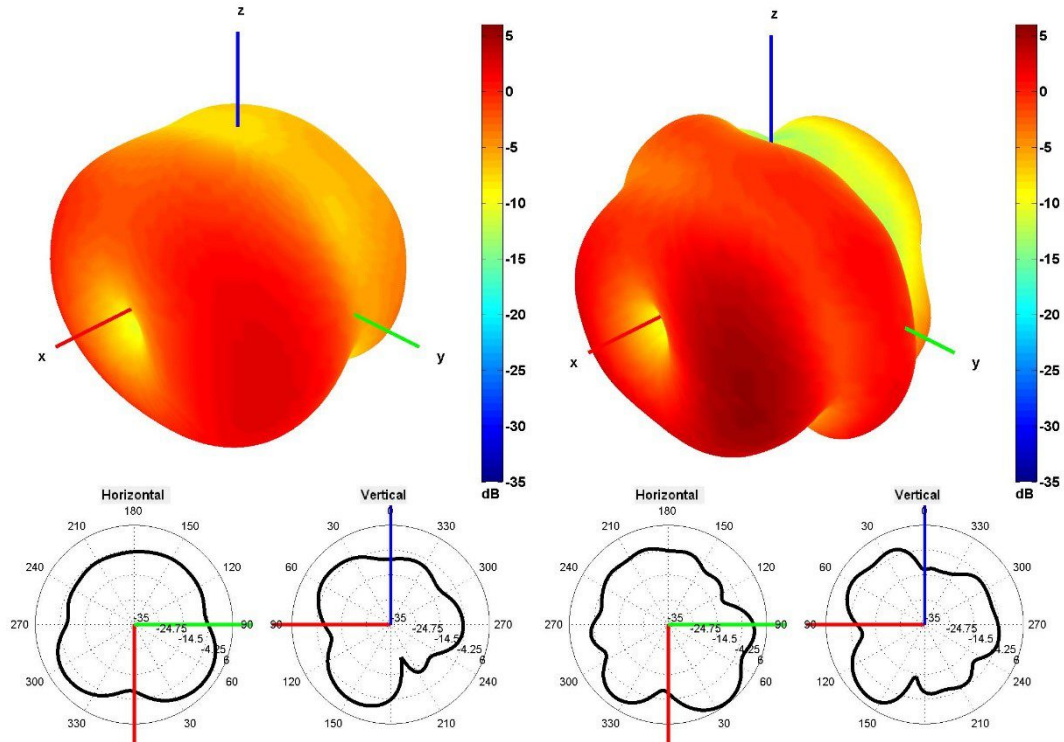
Radiation pattern reference



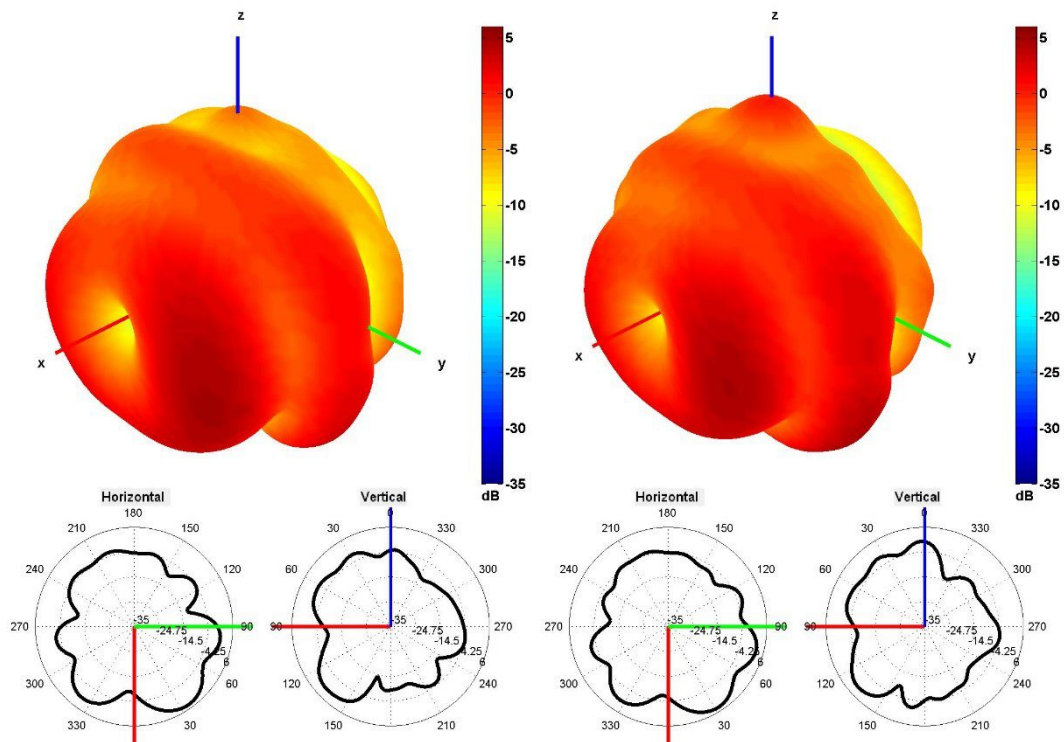
460 and 640 MHz Radiation pattern



750 and 850 MHz Radiation pattern

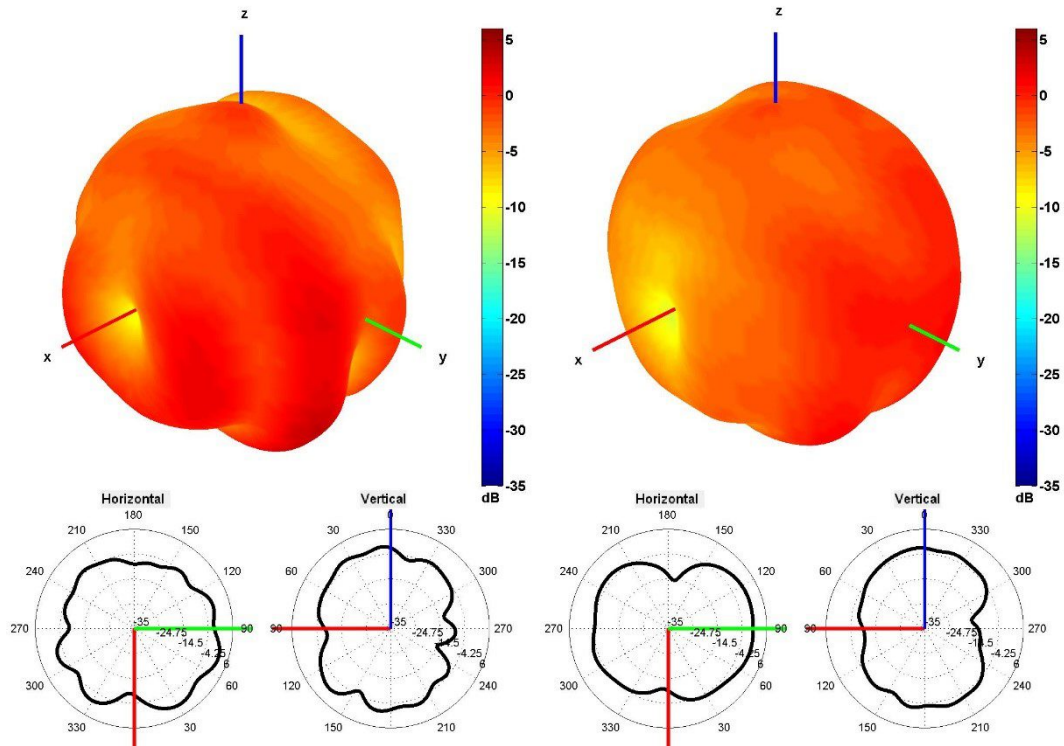


940 and 1500 MHz Radiation pattern

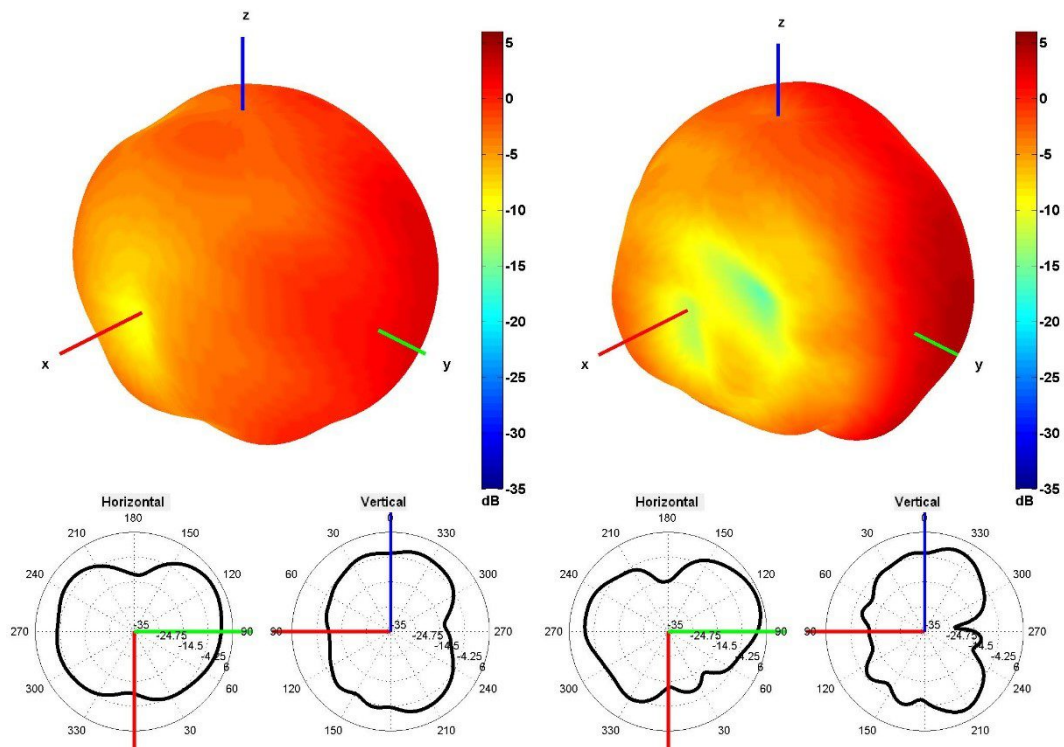


1600 and 1750 MHz Radiation pattern

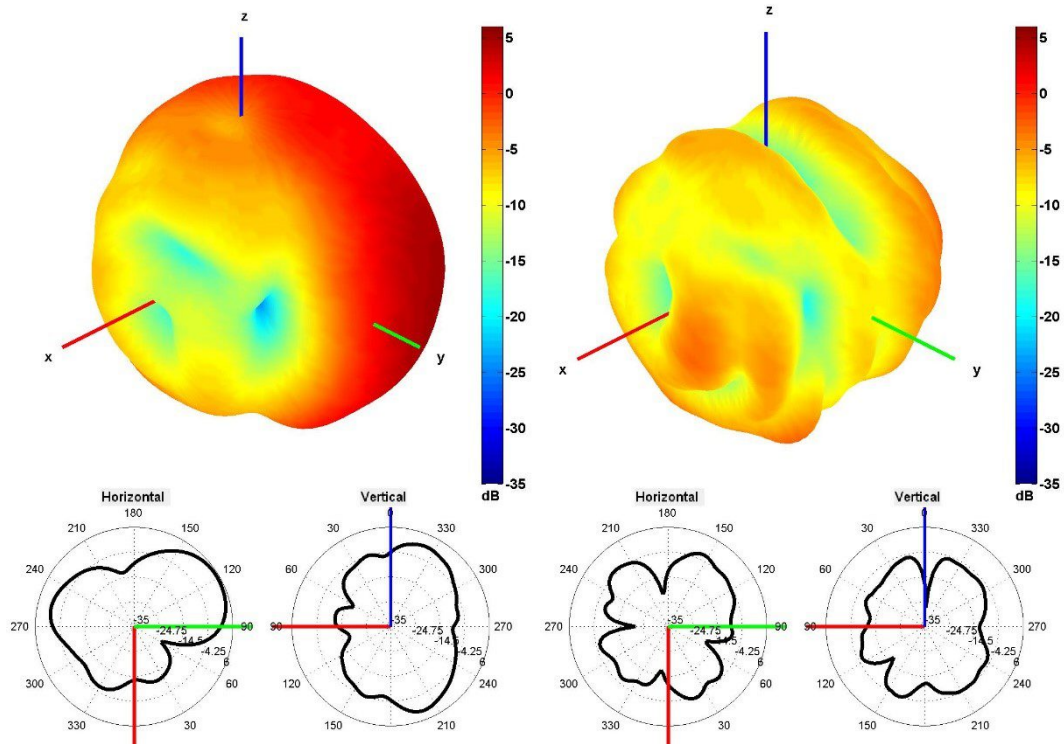




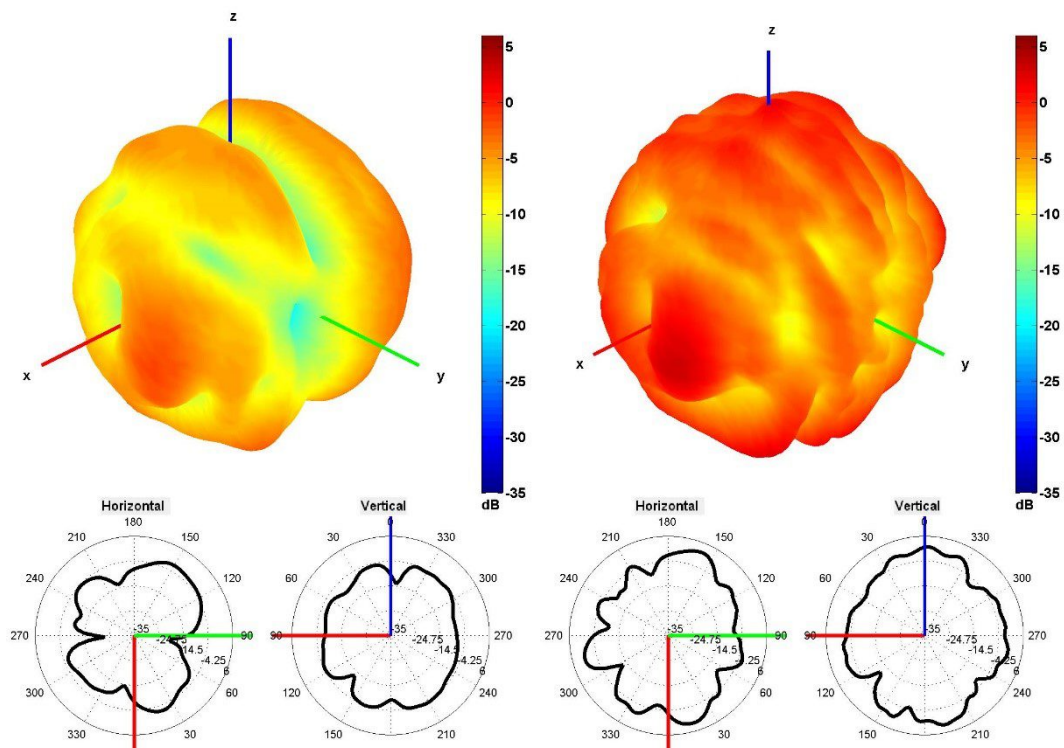
1850 and 1950 MHz Radiation pattern



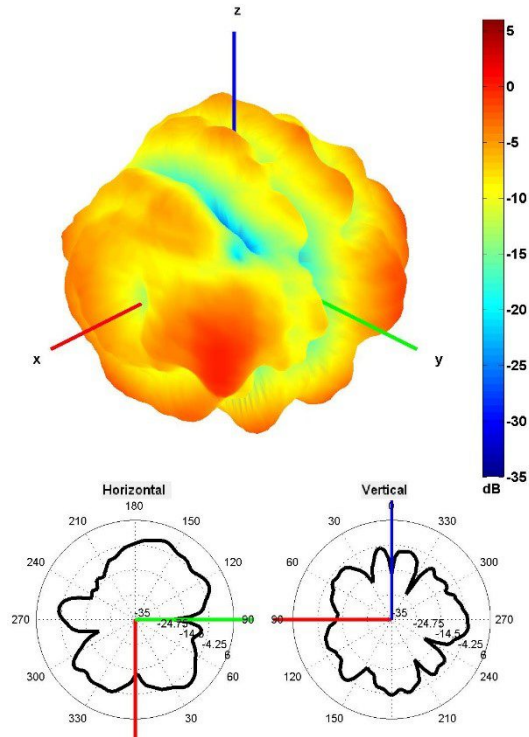
2100 and 2350 MHz Radiation pattern



2600 and 3350 MHz Radiation pattern

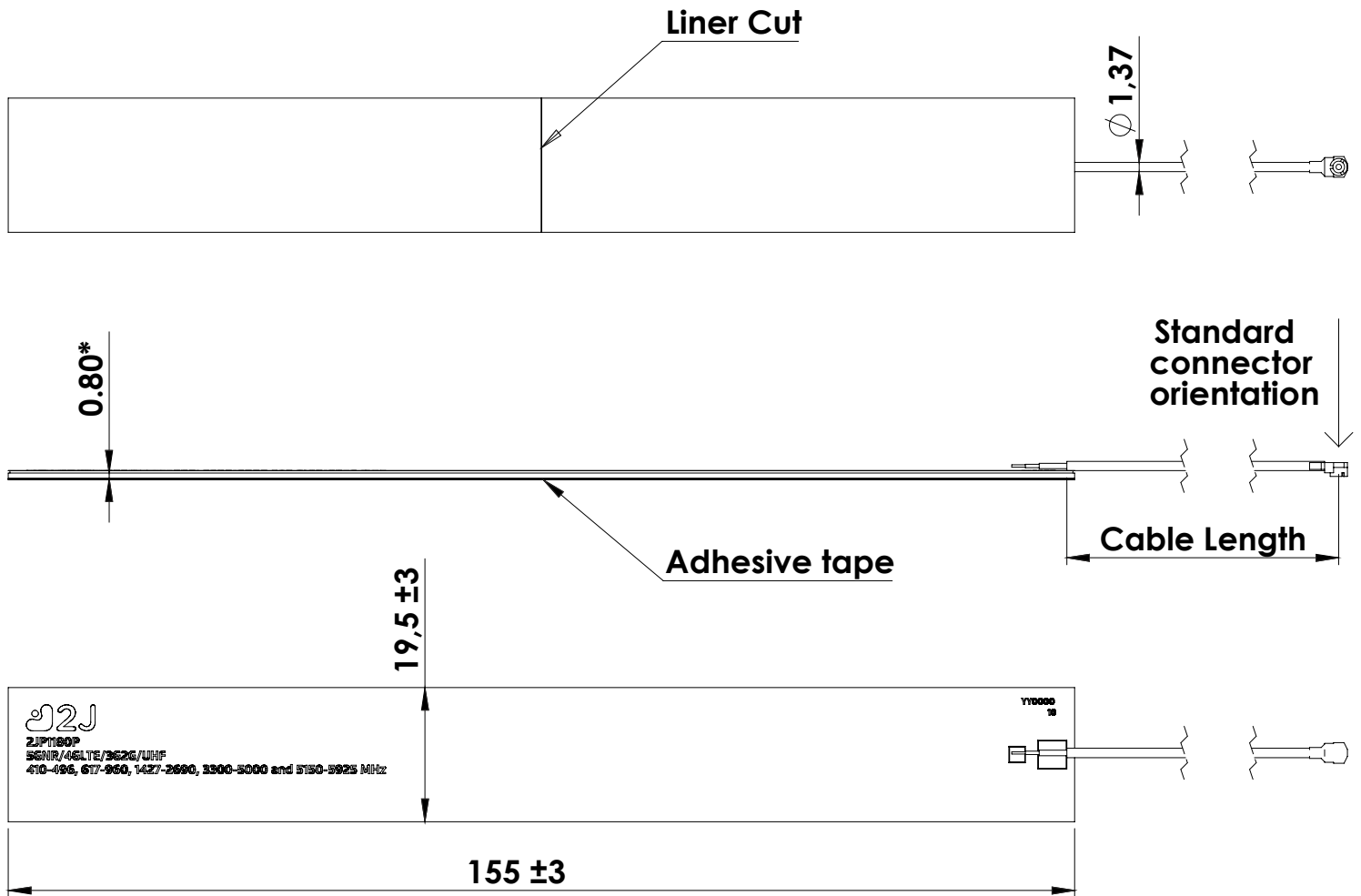


3600 and 4500 MHz Radiation pattern



5500 MHz Radiation pattern

## 4. Antenna drawings



\*PCB thickness without Adhesive and Liner

## 5. Antenna Images

