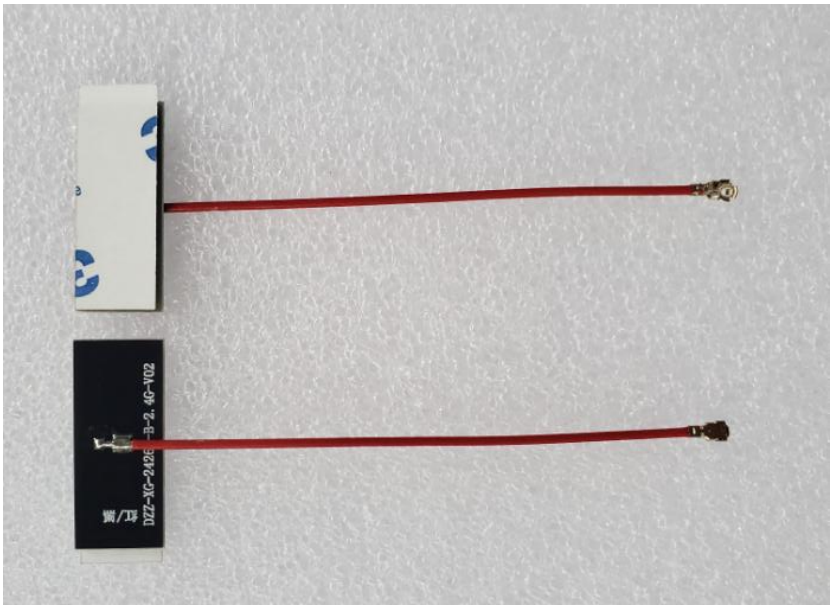
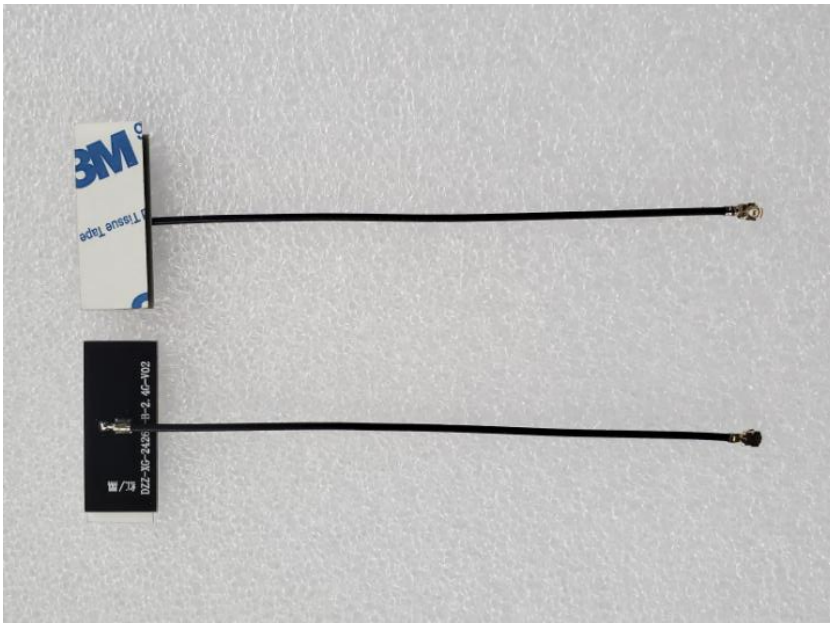
1. Antenna System Description

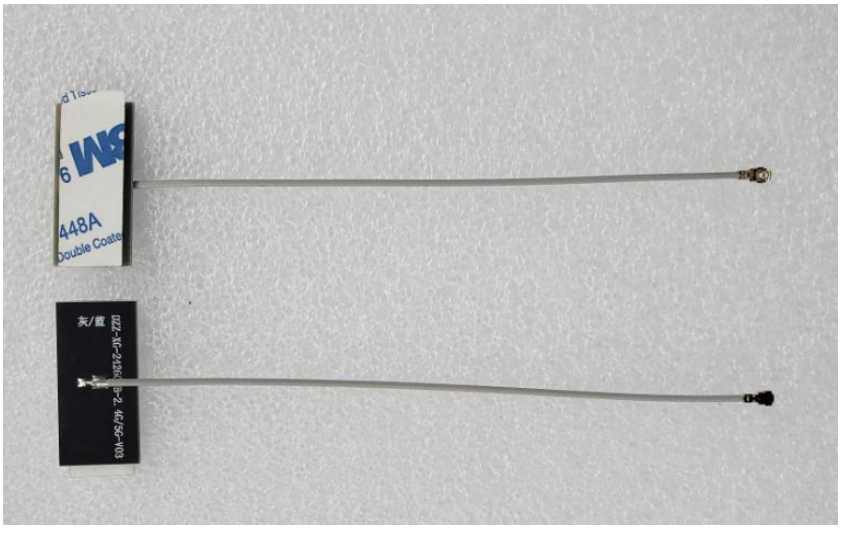
Ant1



Ant2



Ant3



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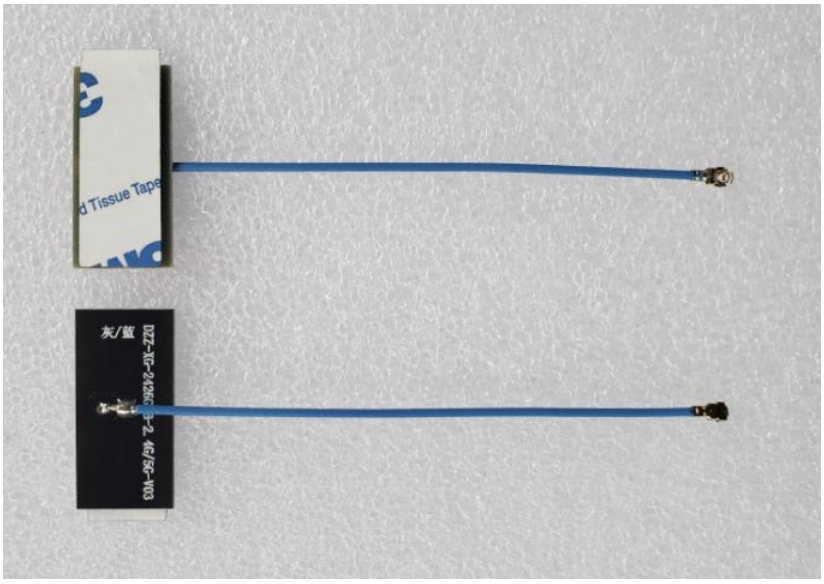

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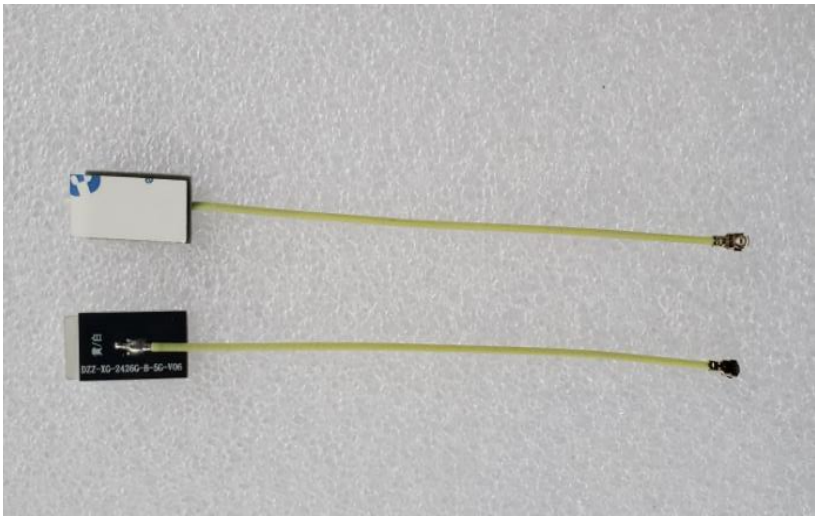

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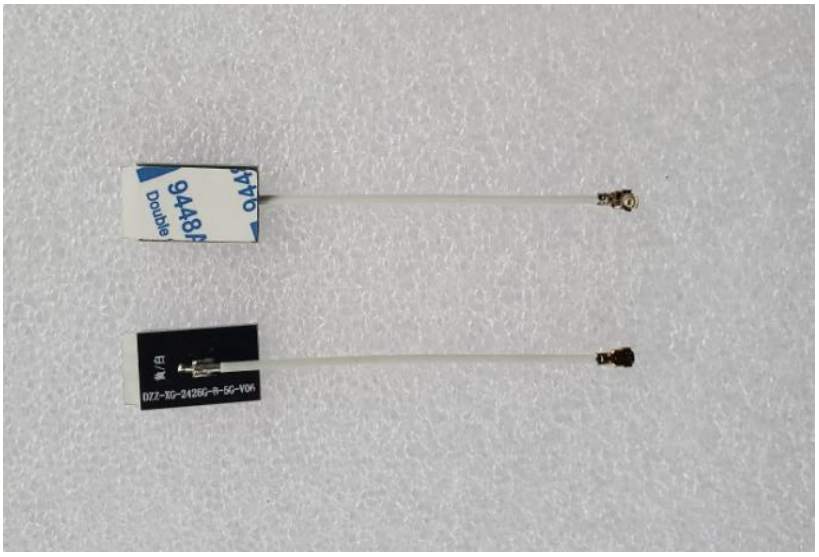
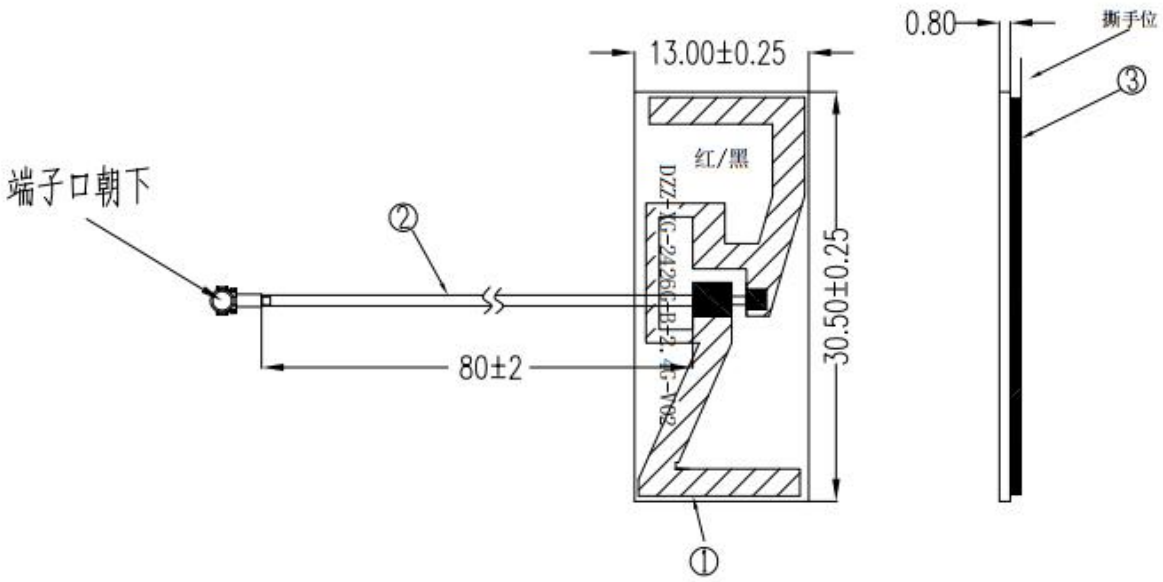
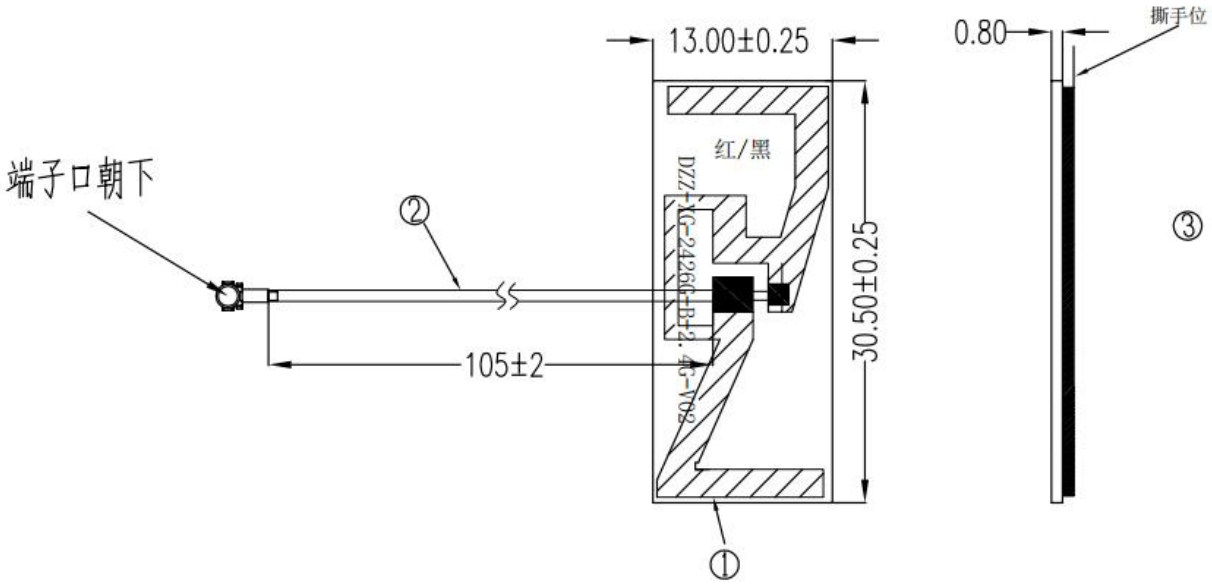


The system contains six internal antennae (as shown: antennae 1/2/3/4/5/6). Each antenna has a radiation element in the form of a PIFA. Each antenna contains a feeder. Red and black cable 2.4 GHz, gray and blue cable 2.4&5 GHz, yellow and white cable 5 GHz antenna gain of 3dBi. The system does not produce multiple beams.

Ant1



Ant2



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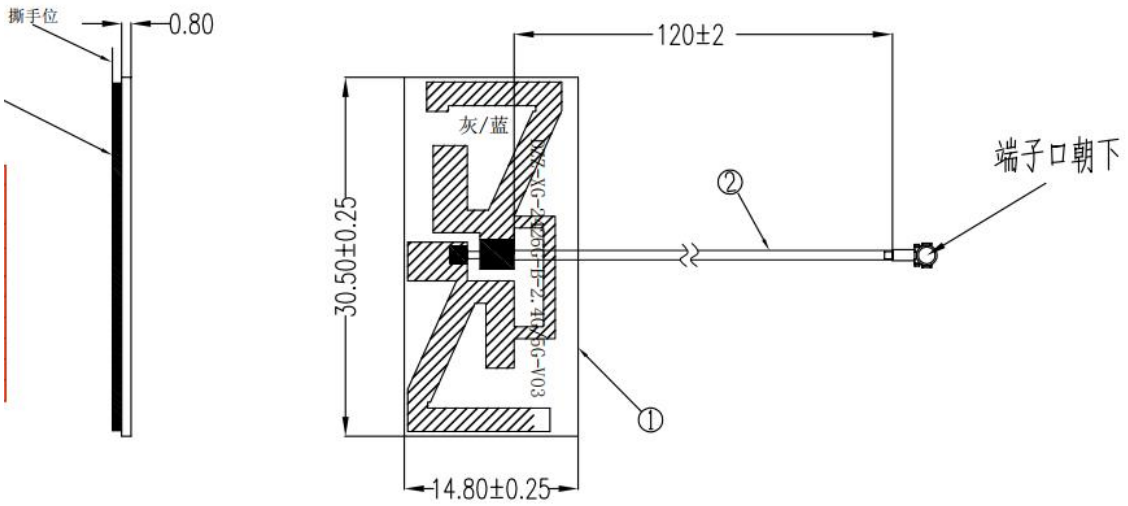

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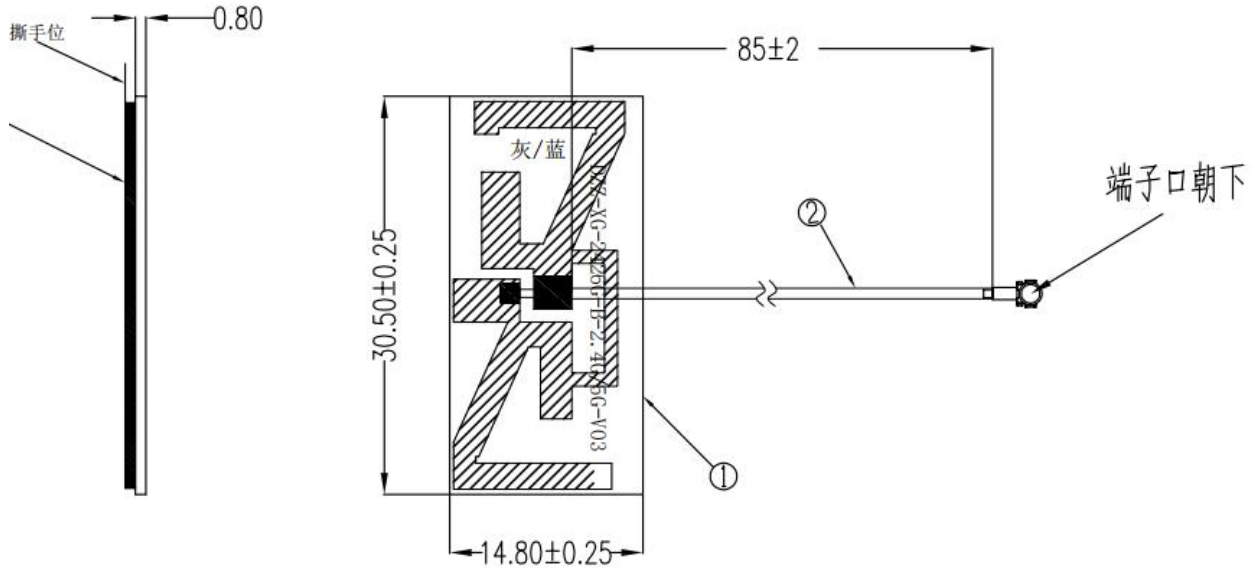

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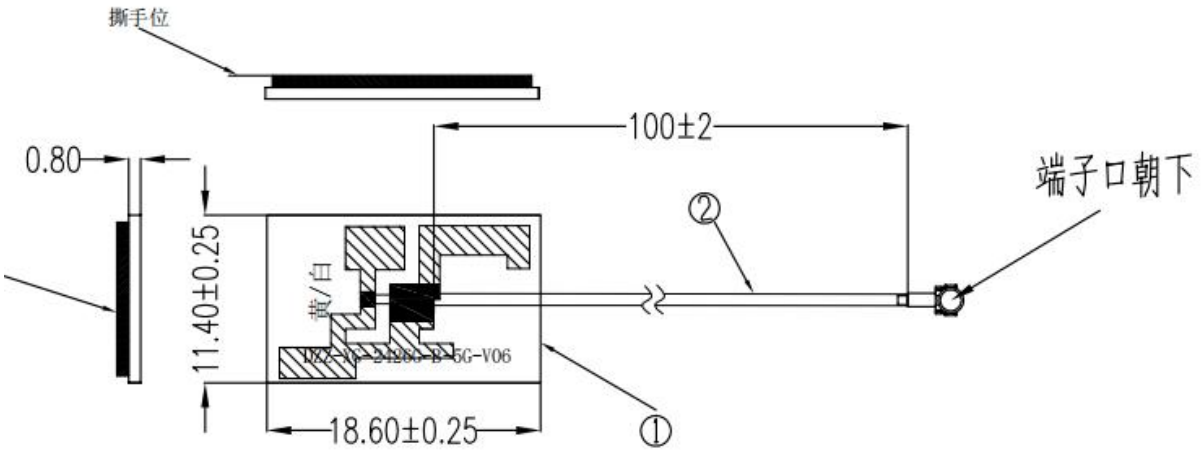

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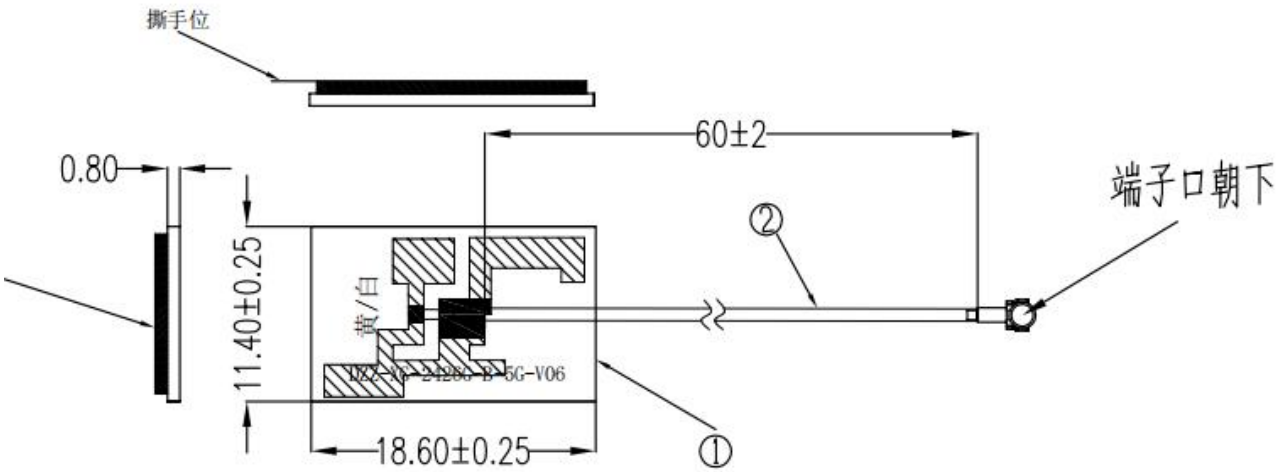
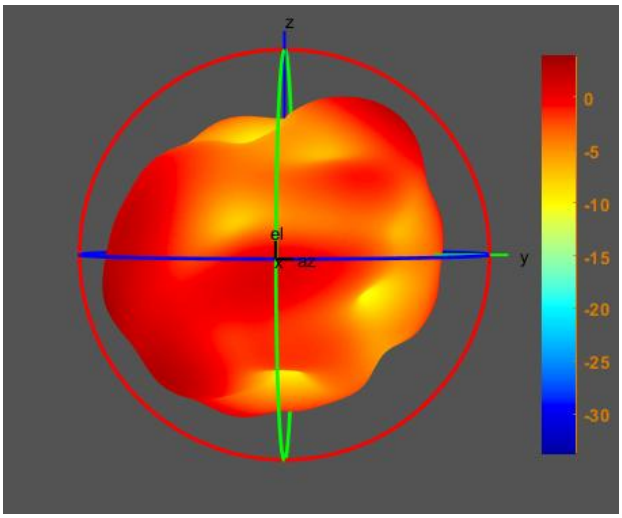
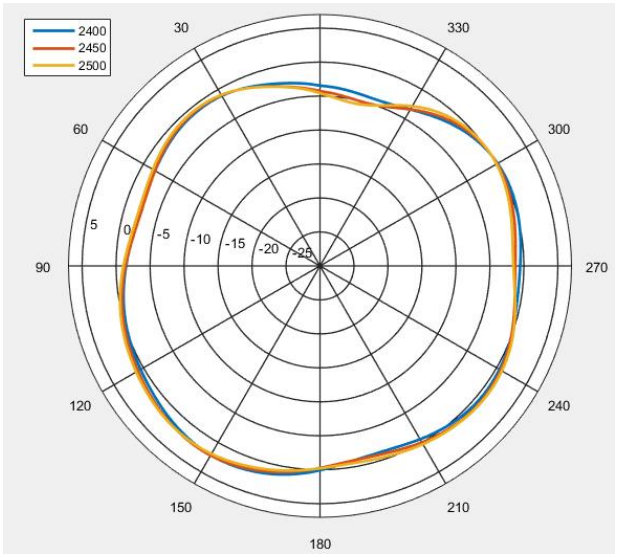


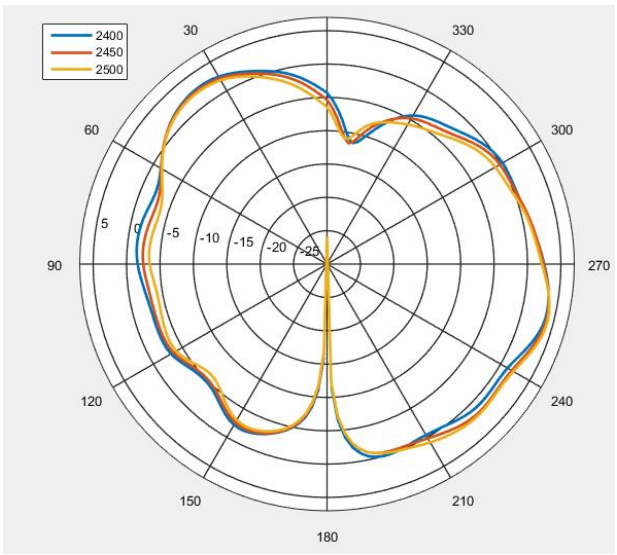
2. Measurement

The pattern of the antenna is omnidirectional radiation in the horizontal plane. The antenna has a gain of 3dBi. The radiation mode of the antenna is as follows:

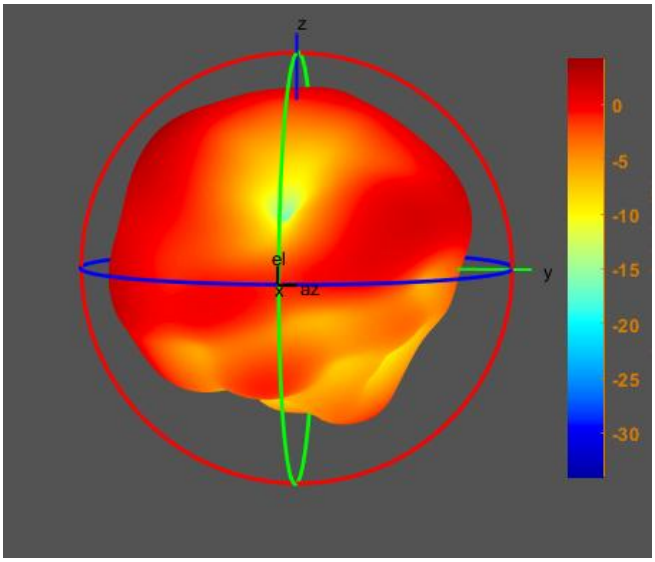
Antenna 1： 2450MHz

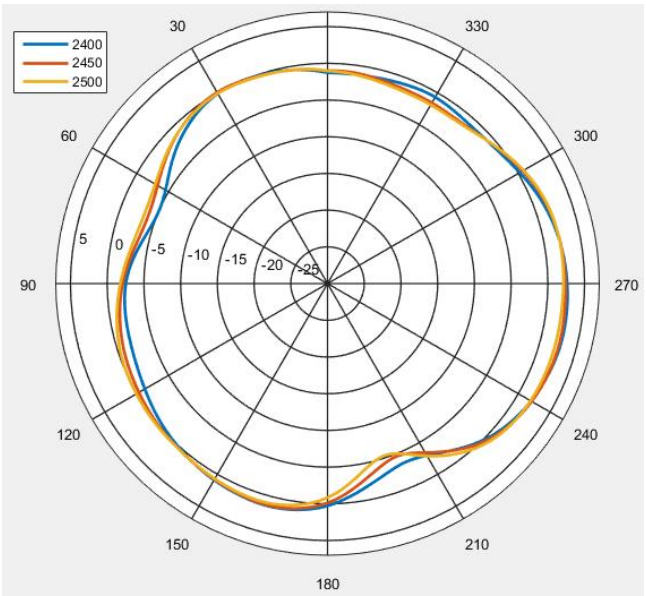


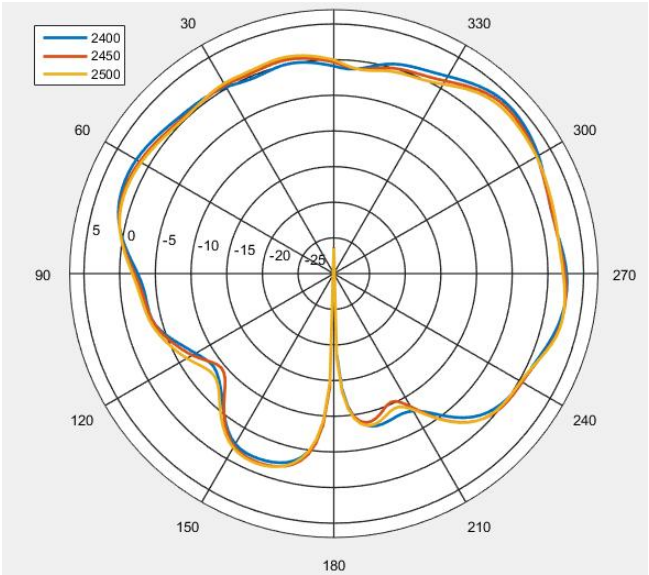




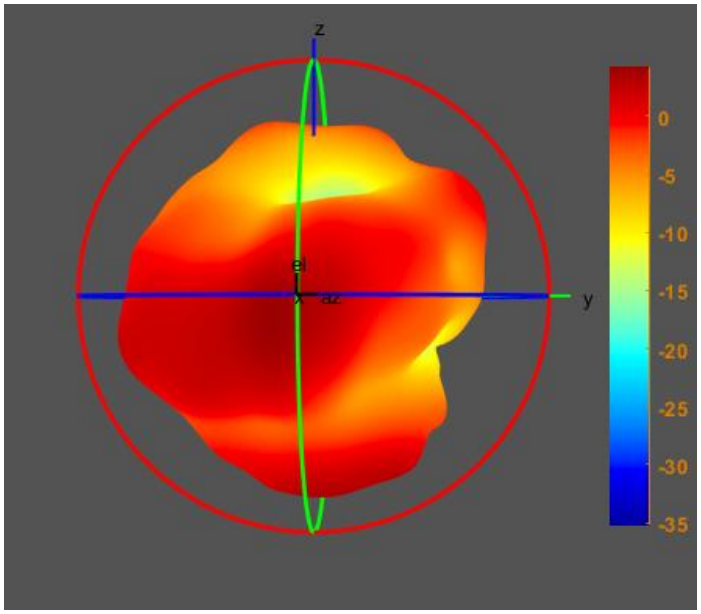
Antenna 2： 2450MHz

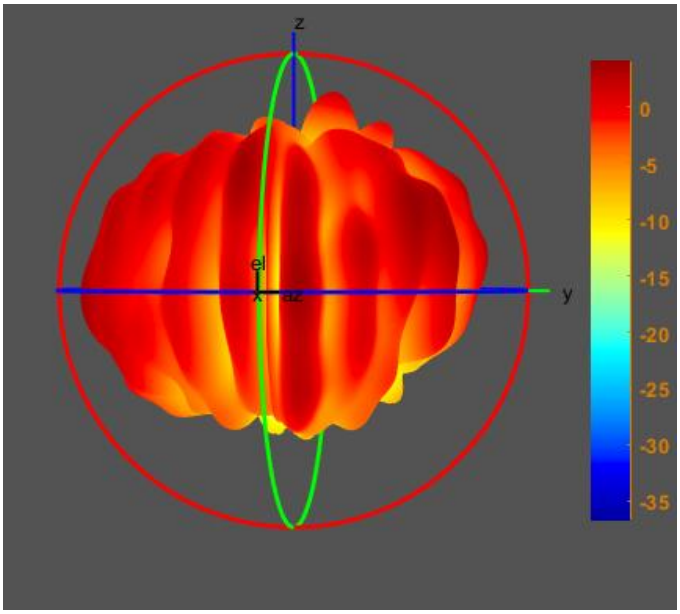


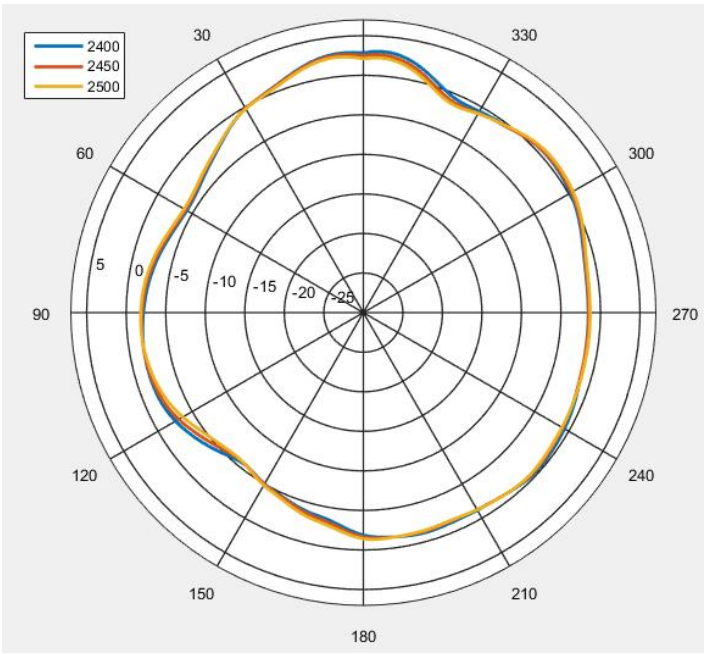


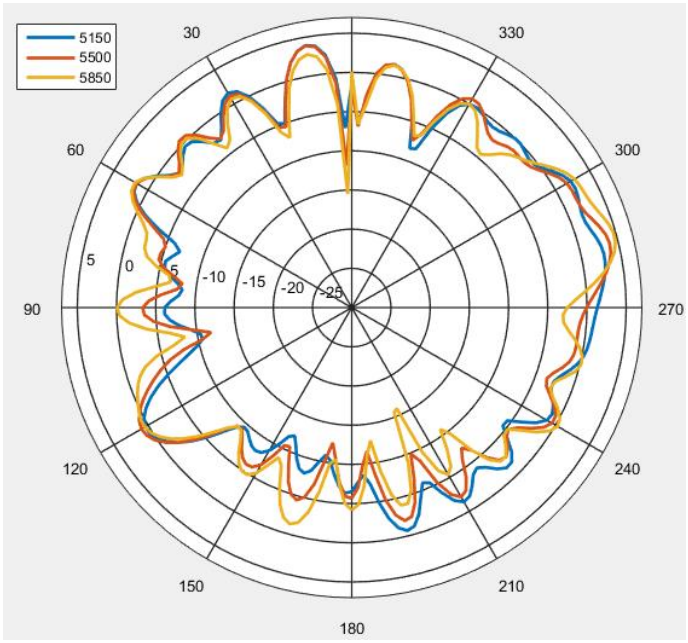


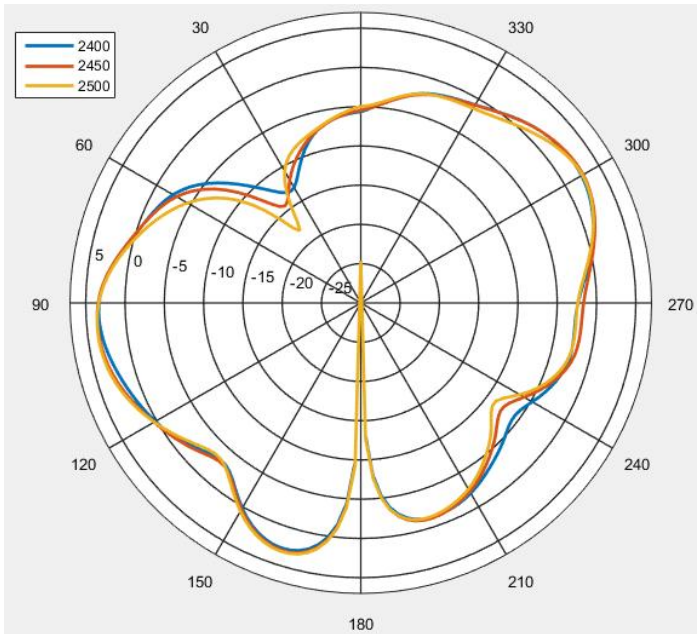
Antenna 3： 2450&5500MHz

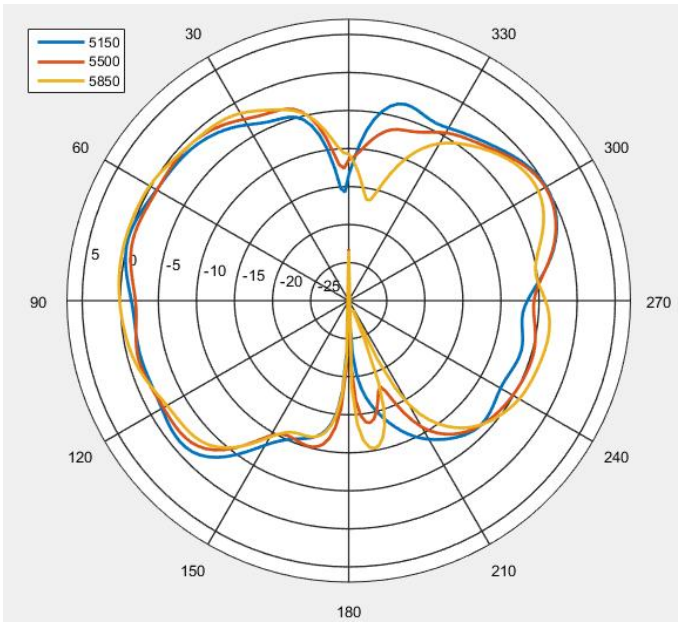




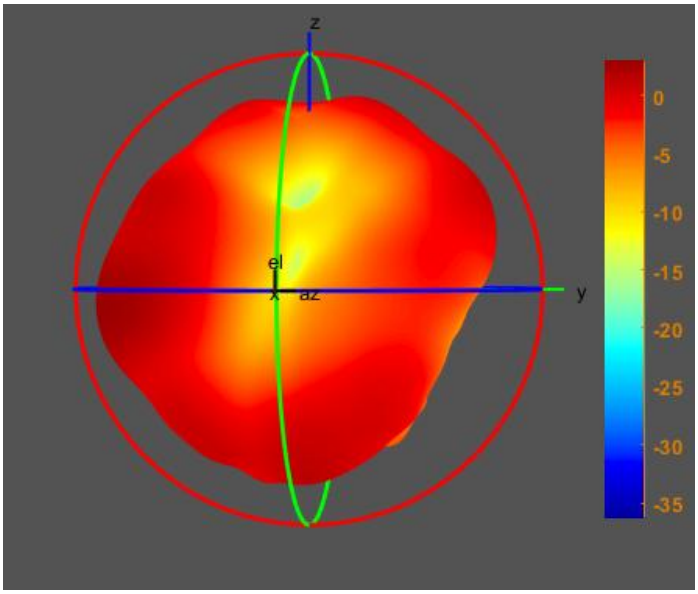


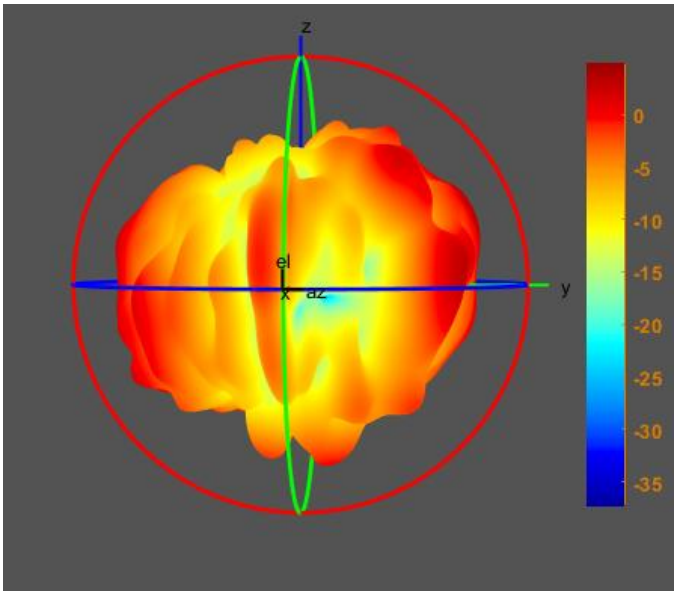


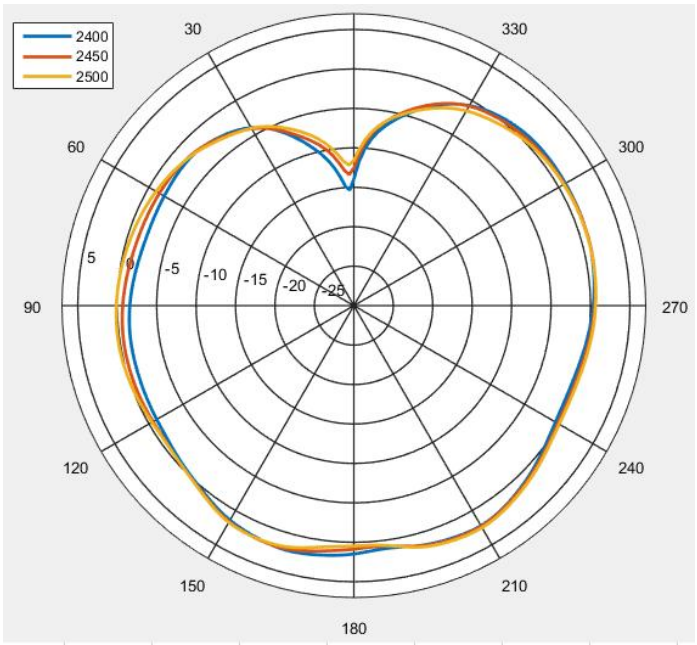


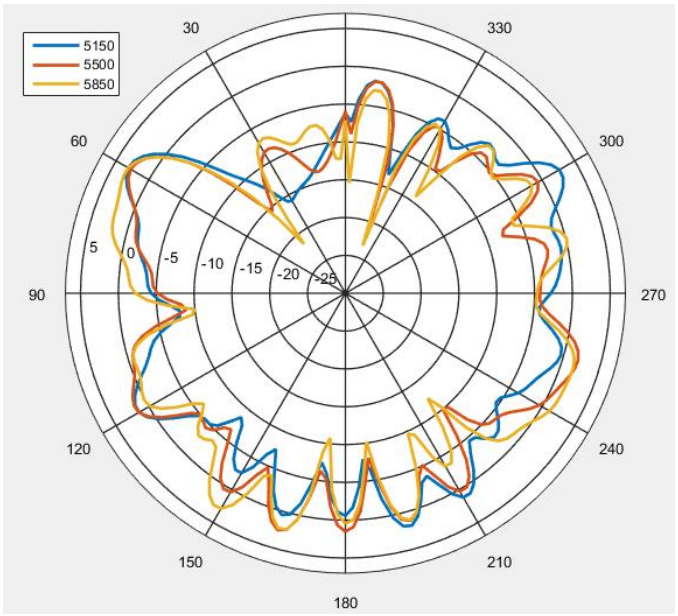


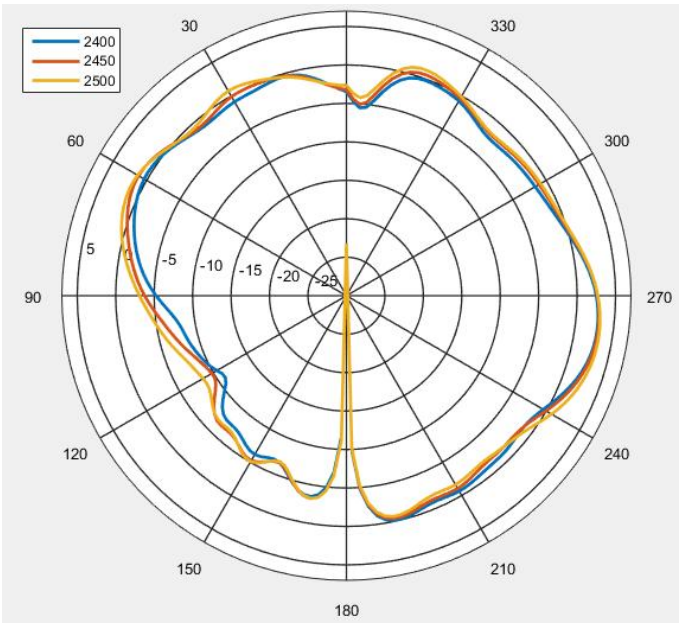
Antenna 4：2450&5500MHz

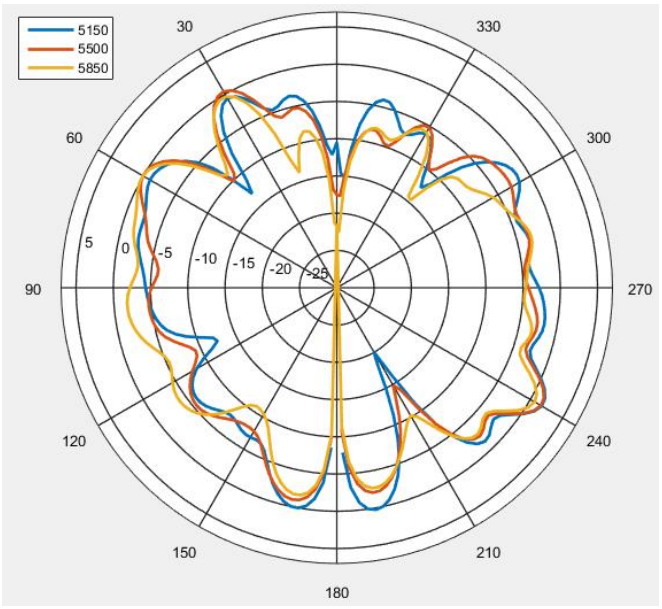




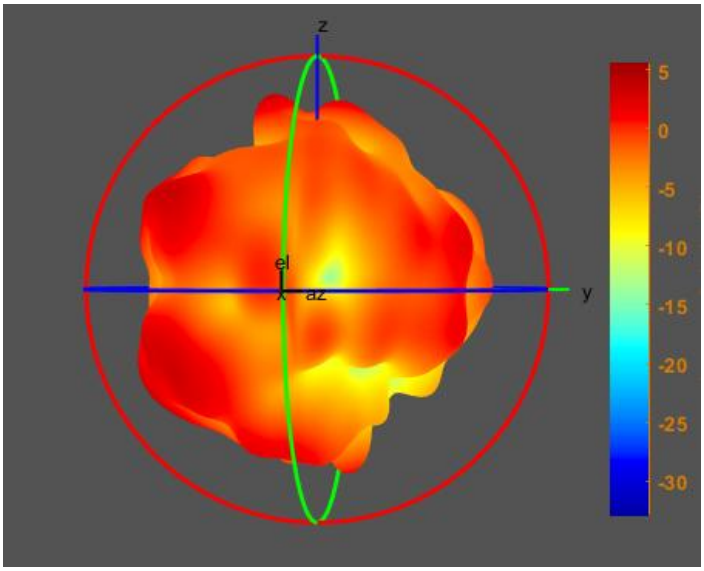


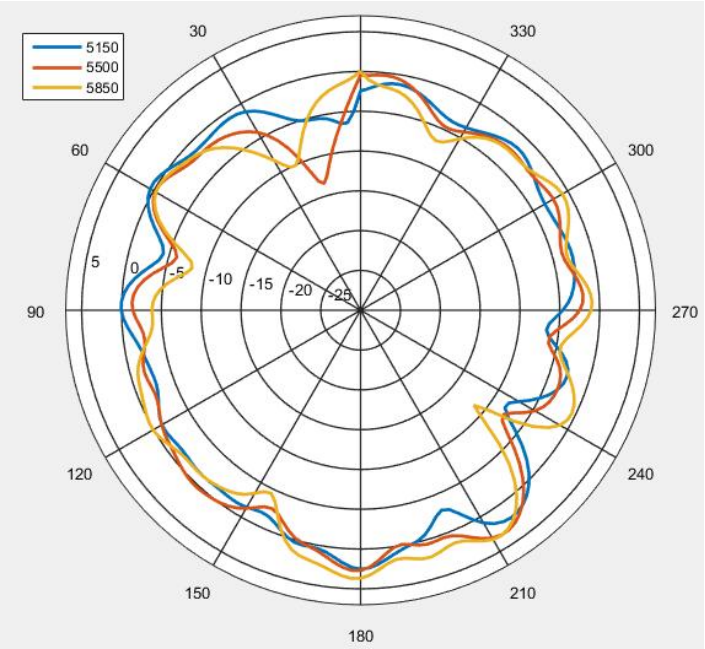


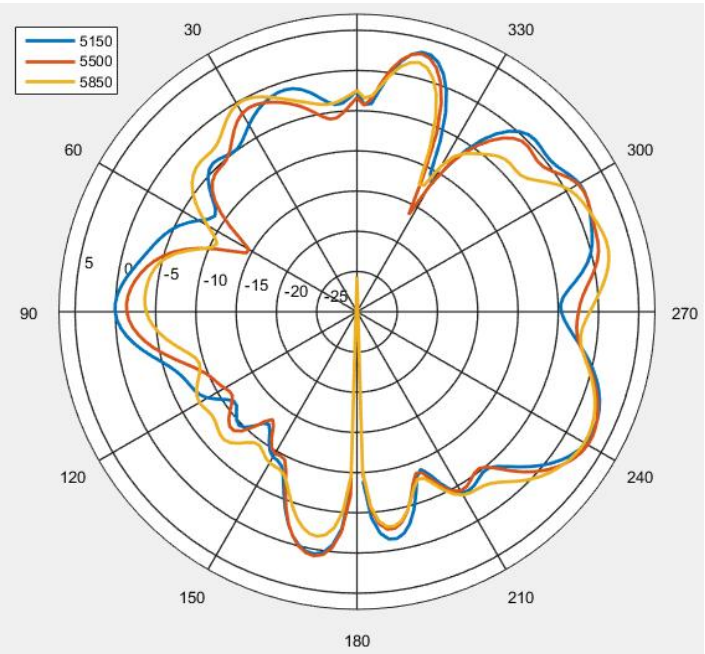




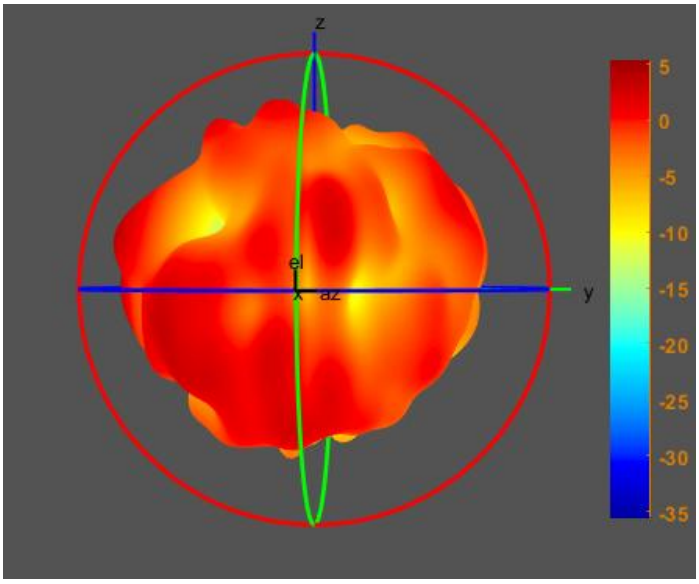
Antenna 5： 5500MHz

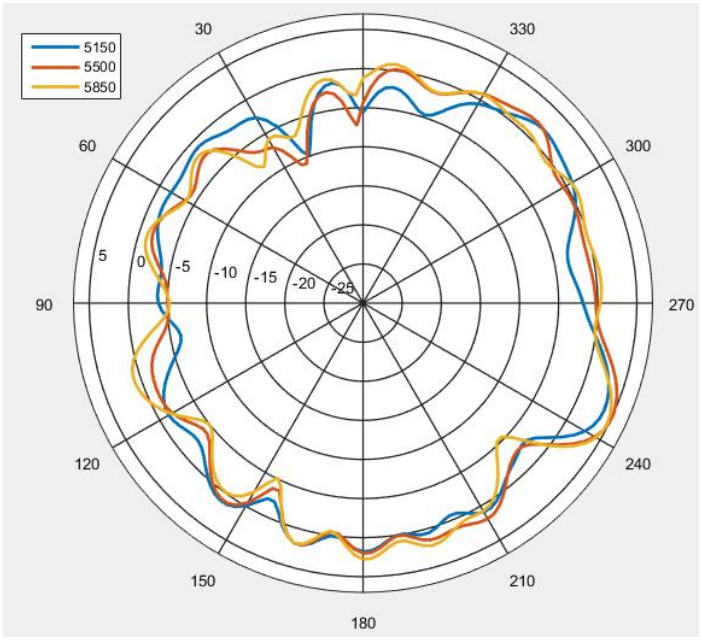


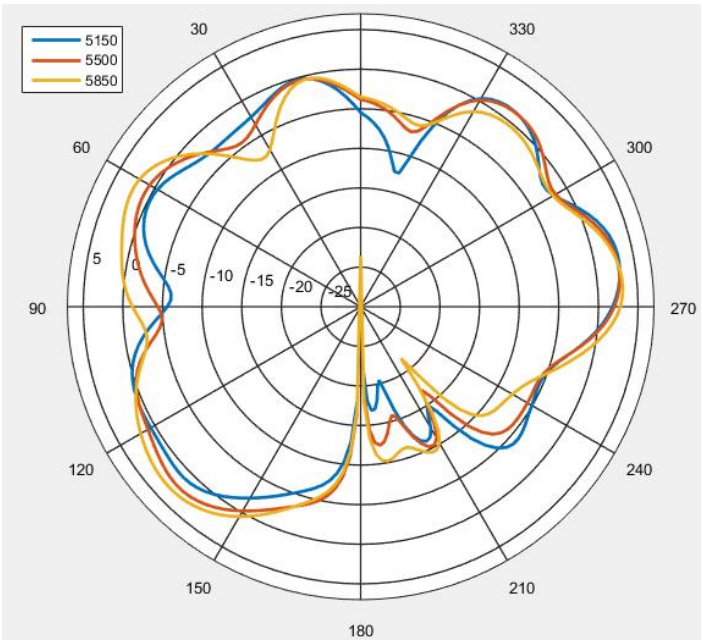




Antenna 6： 5500MHz





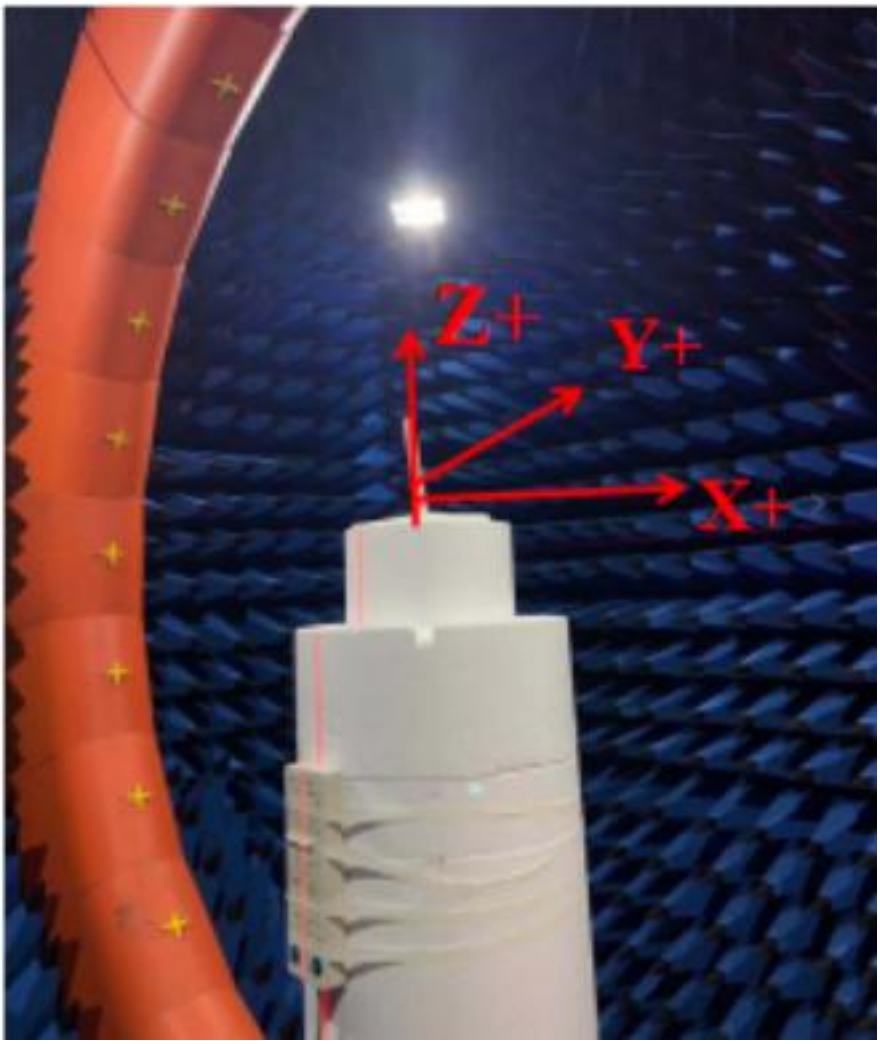


3. Measurement Method

The antenna gain measurement method is gain comparison method.

4. Measurement Environment

The gain of the antenna was measured in the anechoic chamber.The chamber provides less
than –30 dB reflectivity from 400 MHz through 8 GHz. The chamber size is:4m*4m*4m. The
measurement results are calibrated using a leaky wave horn standard. We can measure the
antenna gain and efficiency accurately.



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EM-Testing

24探头球面近场天线测量系统

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