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.

### 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.







# 24探头球面近场天线测量系统

