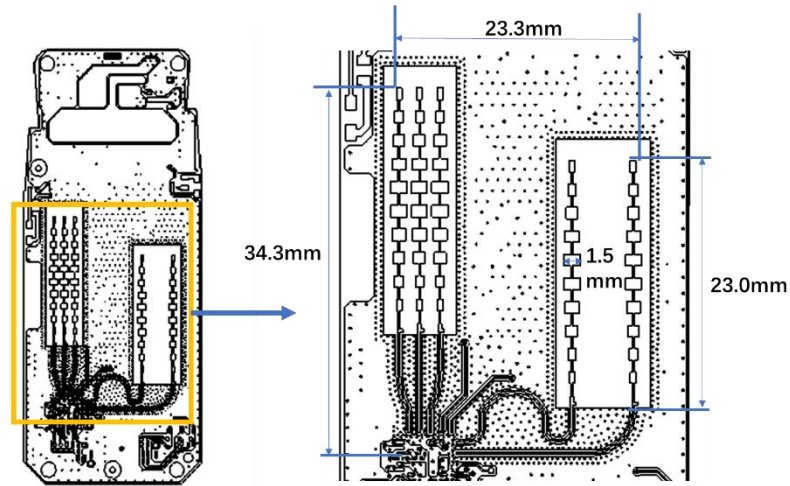


### 1. Supplier

Microbrain intelligent Technology

3rd floor building A, Chentai science park, #56 Wanglong Rd. ,Yuelu district, Changsha, Hunan, China

### 2. Antenna detail Size



Antenna Size

### 3. Antenna S parameter

The Radar antenna operates at 76-81GHz and resonates in this band. The following table shows the main characteristics of the antenna.

**Polarization: linear polarization**

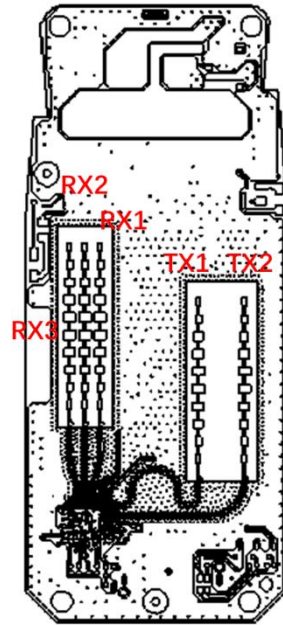
**Antenna type: microstrip patch array**

**Impedance: 50Ω**

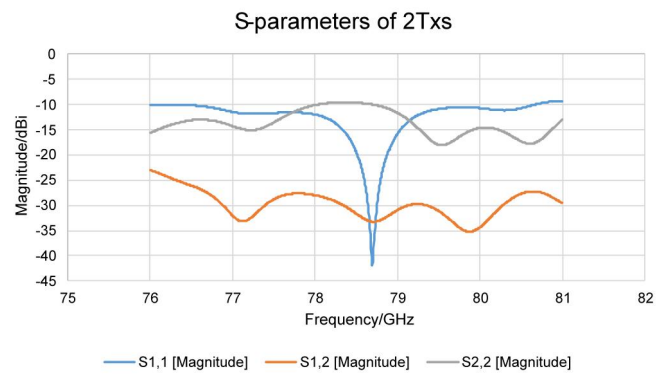
**ROE (S11): < -10dB (76-81G)**

**Antenna gain: 13.0dBi**

**Antenna Radiation Pattern Diagram:**

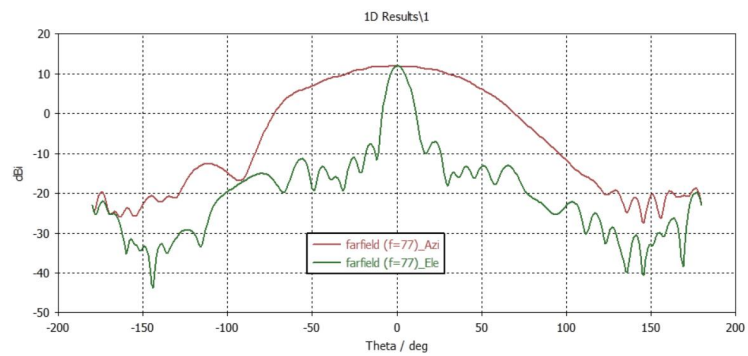


Antenna Simulation model

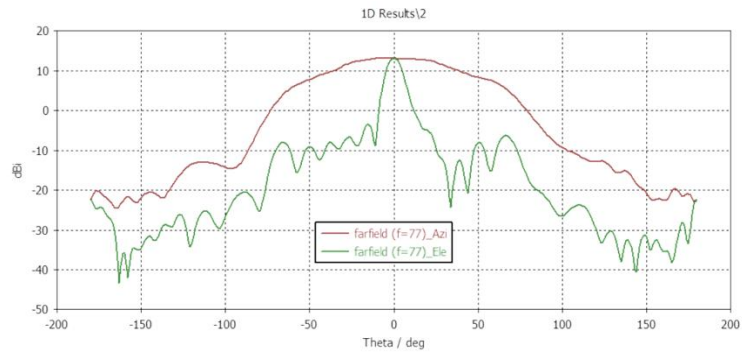


S parameters

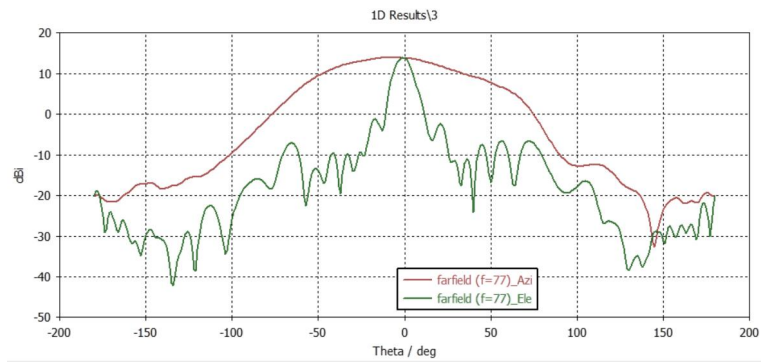
#### 4. Antenna Radiation Pattern Diagram:



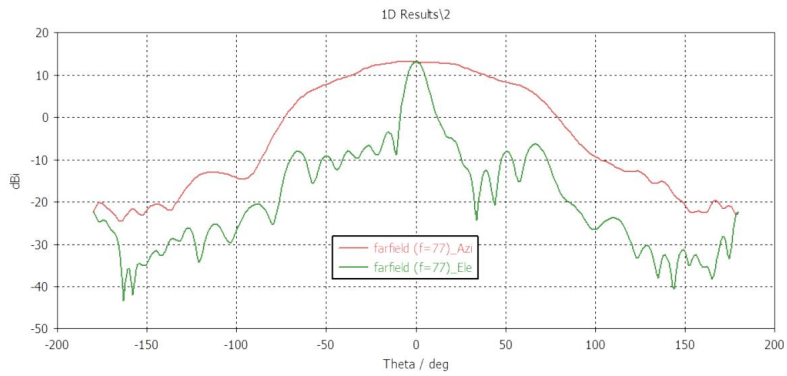
TX1 Radiation pattern of 77GHz (show azimuth and elevation plane)



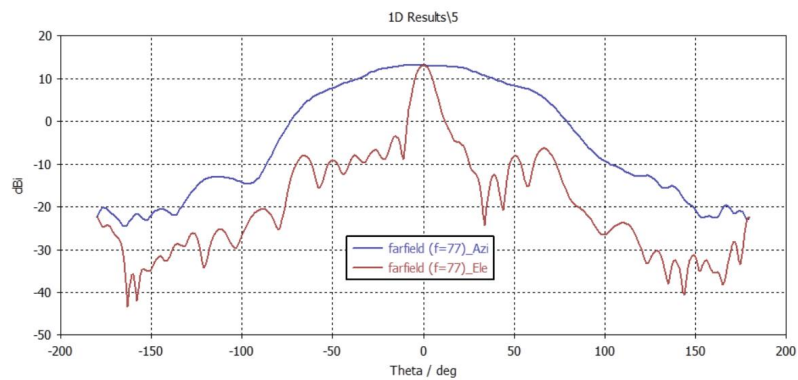
TX2 Radiation pattern of 77GHz (show azimuth and elevation plane)



RX1 Radiation pattern of 77GHz (show azimuth and elevation plane)

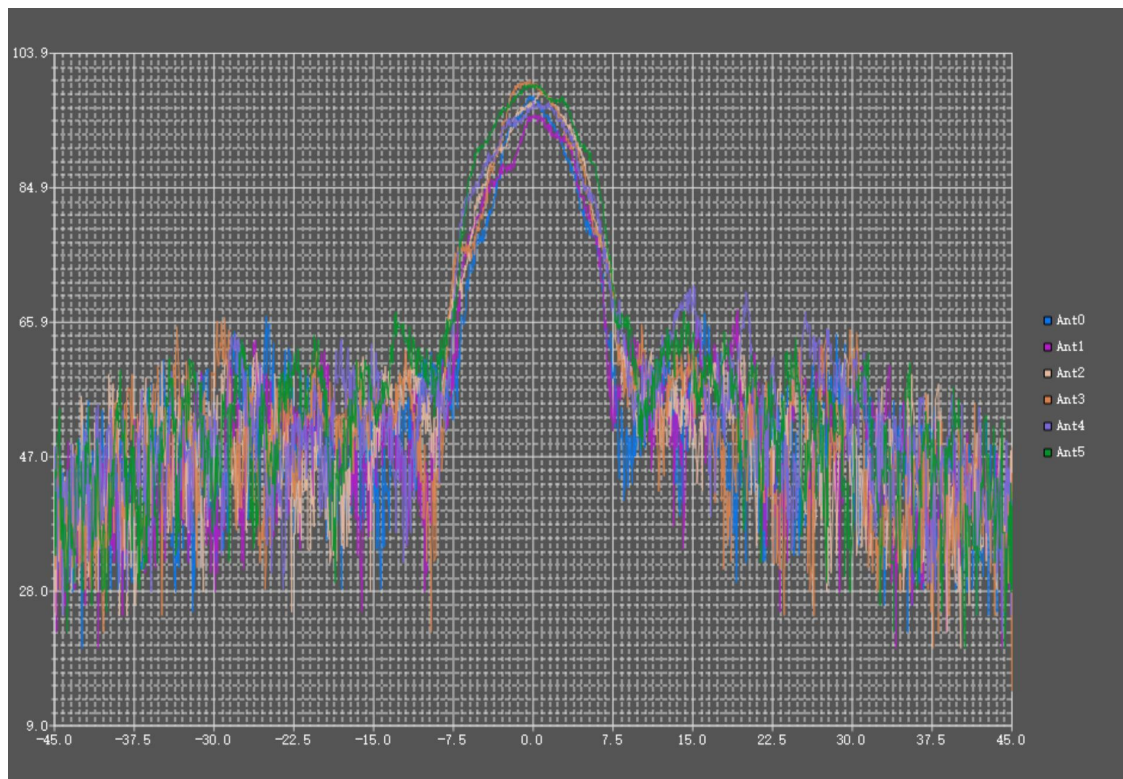


RX2 Radiation pattern of 77GHz (show azimuth and elevation plane)

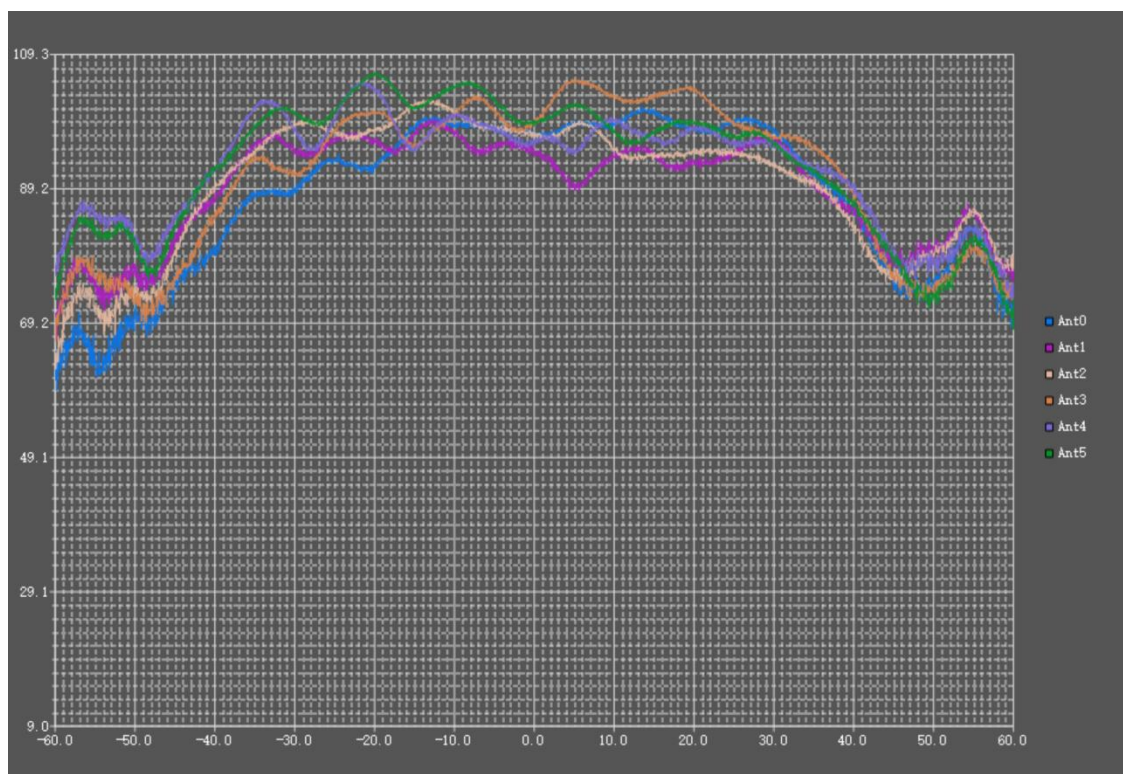


RX3 Radiation pattern of 77GHz (show azimuth and elevation plane)

### 5. Antenna Radiation Pattern Diagram in free space chamber:



Test Elevation pattern



Test Azimuth pattern