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## Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: 23113RKC6G

FCC ID: 2AFZZRKC6G

Test date: 2023/09/07



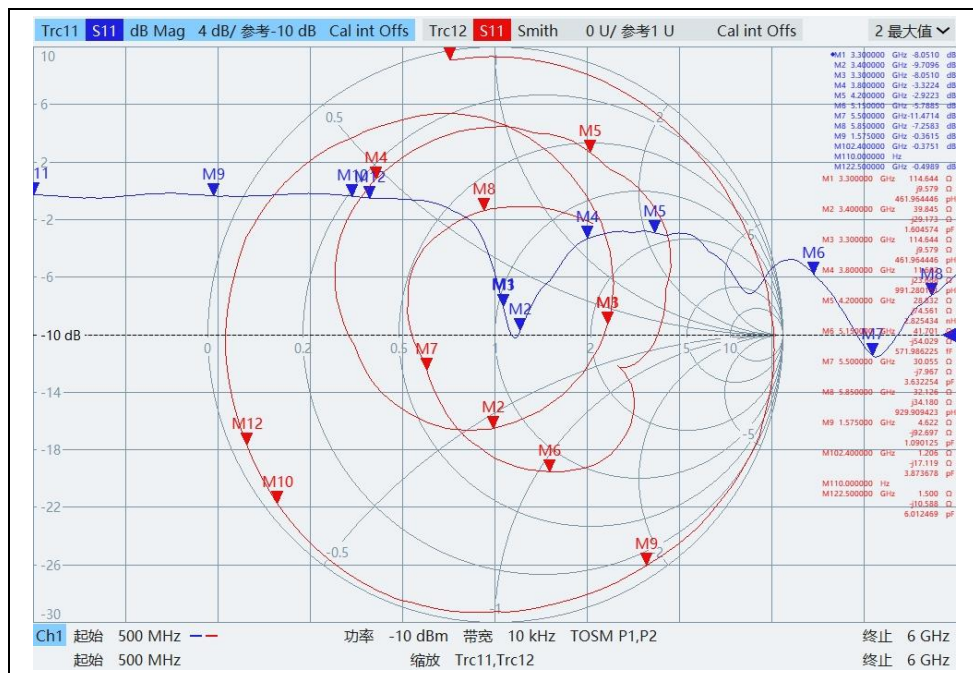
## 1. Antenna information

| Antenna | Pattern     | Antenna Type | Manufacturer   | Test party of Antenna gain                  |
|---------|-------------|--------------|--|---|
| ANT6    | Metal Frame | PIFA Antenna | Hon Hai Technology Group(Foxconn)<br>(address: LongHe Industry Park. AnCi District. Langfang City, HeBei.<br>P.R.China 065000 Foxconn International Holdings Ltd.)<br>&HuiZhou BYD Electronics Co., Ltd<br>(address: BYD Industrial Park, Xiangshui River, Daya Bay, Huizhou City)<br>&Biel Technology Manufactory(Huizhou) Limited<br>(address: Rongxin Lubourne Science and Technology Park, Huiyang<br>Economic Development Zone, Huizhou City, Guangdong Province) | Shenzhen Xiaomi<br>Communications Co., Ltd. |
| ANT7    | Metal Frame | PIFA Antenna | Hon Hai Technology Group(Foxconn)<br>(address: LongHe Industry Park. AnCi District. Langfang City, HeBei.<br>P.R.China 065000 Foxconn International Holdings Ltd.)<br>&HuiZhou BYD Electronics Co., Ltd<br>(address: BYD Industrial Park, Xiangshui River, Daya Bay, Huizhou City)<br>&Biel Technology Manufactory(Huizhou) Limited<br>(address: Rongxin Lubourne Science and Technology Park, Huiyang<br>Economic Development Zone, Huizhou City, Guangdong Province) | Shenzhen Xiaomi<br>Communications Co., Ltd. |
| ANT16   | Metal Frame | PIFA Antenna | Hon Hai Technology Group(Foxconn)<br>(address: LongHe Industry Park. AnCi District. Langfang City, HeBei.<br>P.R.China 065000 Foxconn International Holdings Ltd.)<br>&HuiZhou BYD Electronics Co., Ltd<br>(address: BYD Industrial Park, Xiangshui River, Daya Bay, Huizhou City)<br>&Biel Technology Manufactory(Huizhou) Limited<br>(address: Rongxin Lubourne Science and Technology Park, Huiyang<br>Economic Development Zone, Huizhou City, Guangdong Province) | Shenzhen Xiaomi<br>Communications Co., Ltd. |
| ANT17   | Metal Frame | PIFA Antenna | Hon Hai Technology Group(Foxconn)<br>(address: LongHe Industry Park. AnCi District. Langfang City, HeBei.<br>P.R.China 065000 Foxconn International Holdings Ltd.)<br>&HuiZhou BYD Electronics Co., Ltd<br>(address: BYD Industrial Park, Xiangshui River, Daya Bay, Huizhou City)<br>&Biel Technology Manufactory(Huizhou) Limited<br>(address: Rongxin Lubourne Science and Technology Park, Huiyang<br>Economic Development Zone, Huizhou City, Guangdong Province) | Shenzhen Xiaomi<br>Communications Co., Ltd. |



## 2. Test data

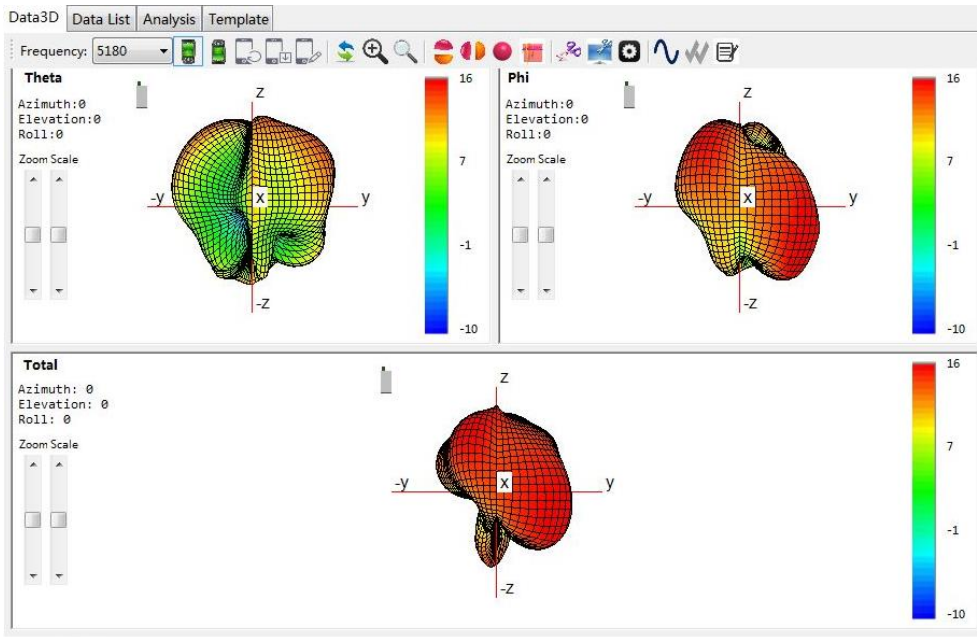
| Band for Antenna 6 | WIFI 5G ant |                |
|--------------------|-------------|----------------|
|                    | Effi.(dBi)  | peak gain(dBi) |
| 5G (5.15-5.25GHz)  | -5.7        | -2             |
| 5G (5.25-5.35GHz)  | -5.4        | -2             |
| 5G (5.47-5.725GHz) | -5.4        | -2             |
| 5G (5.725-5.85GHz) | -5          | -2             |





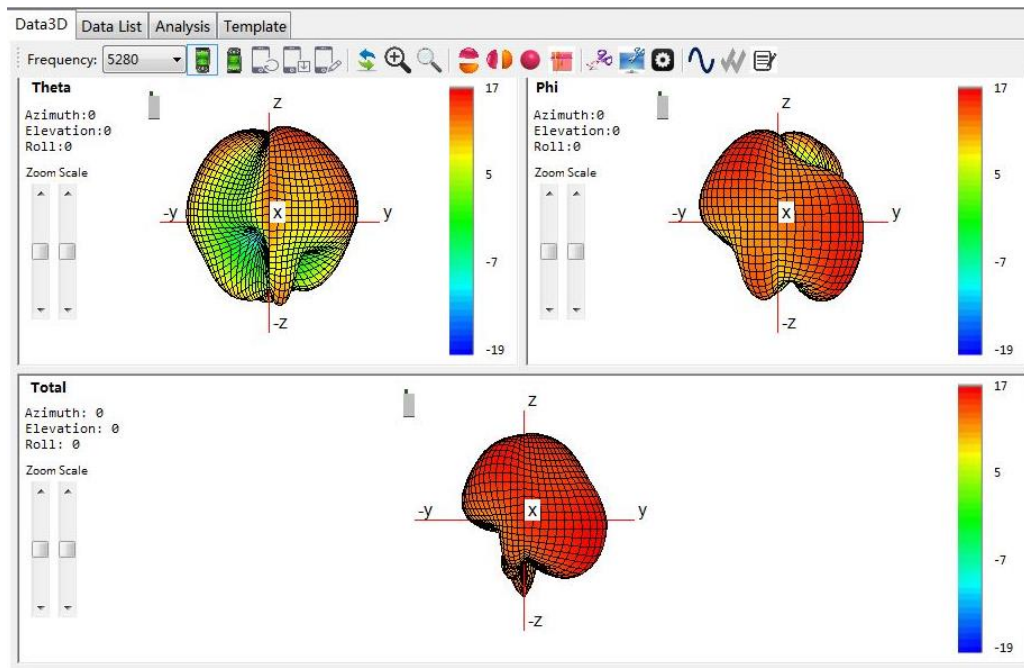
Frequency

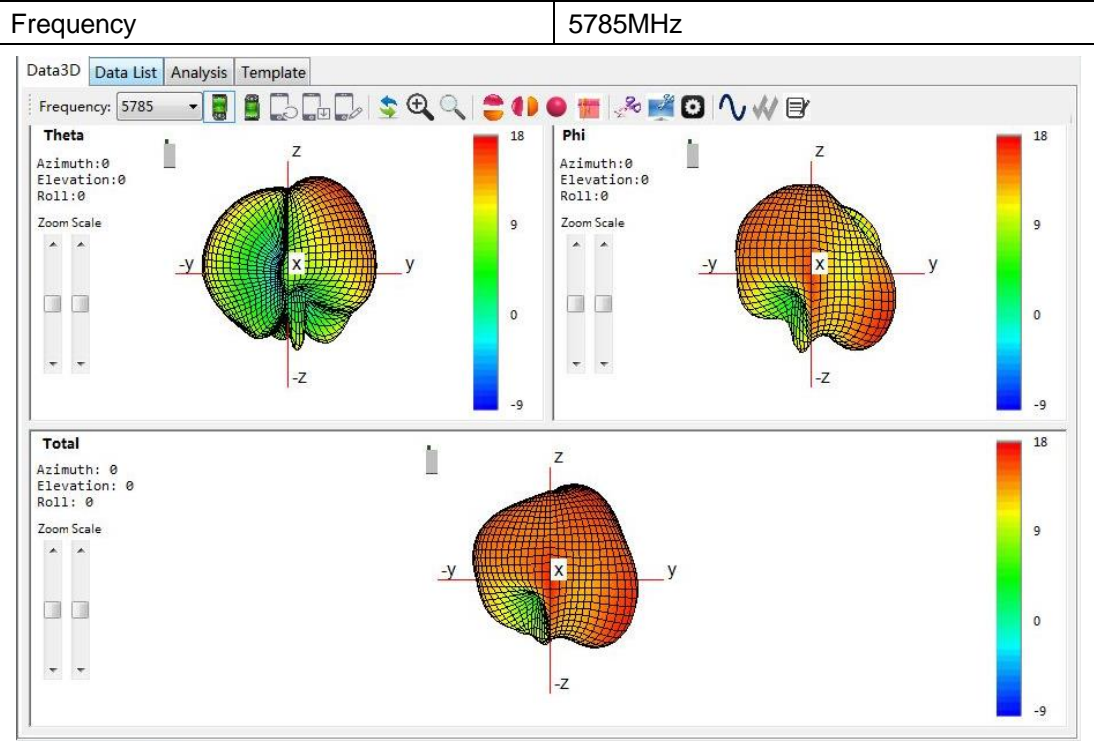
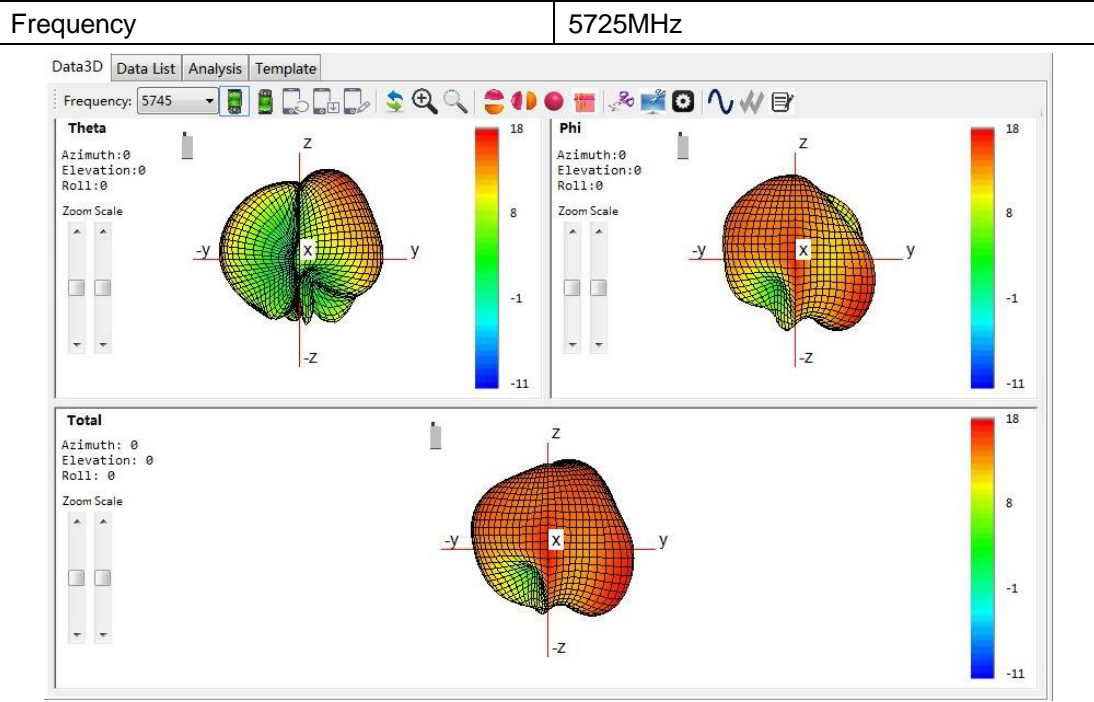
5180MHz



Frequency

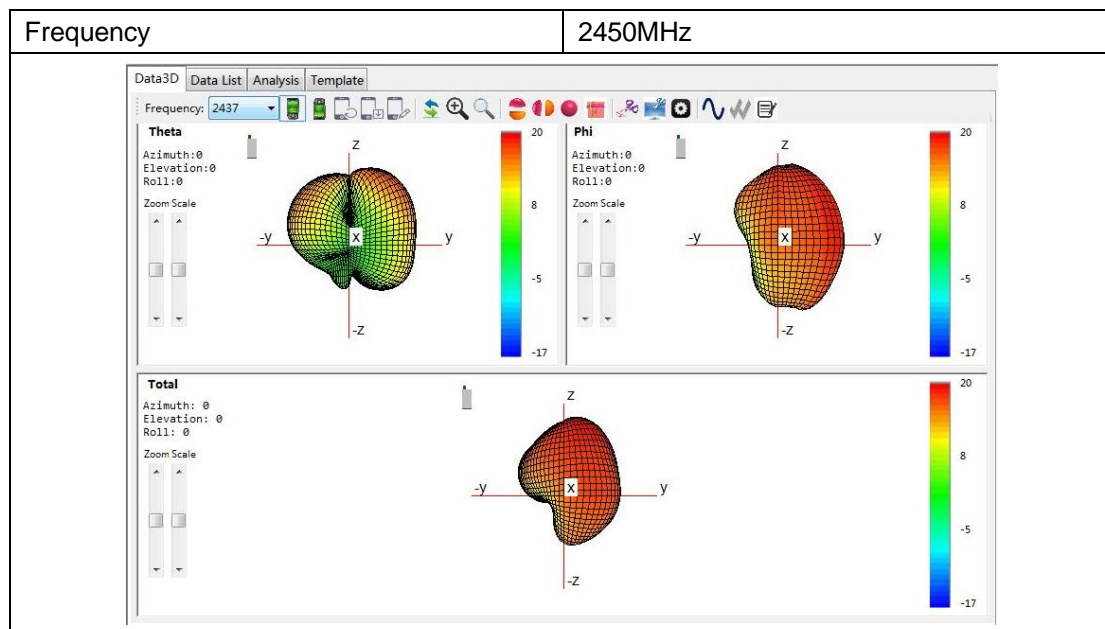
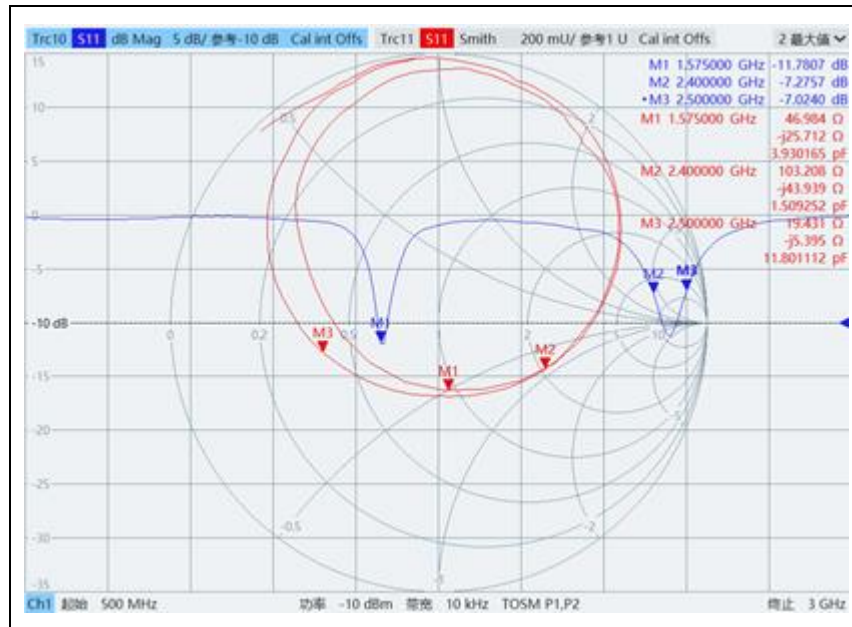
5280MHz





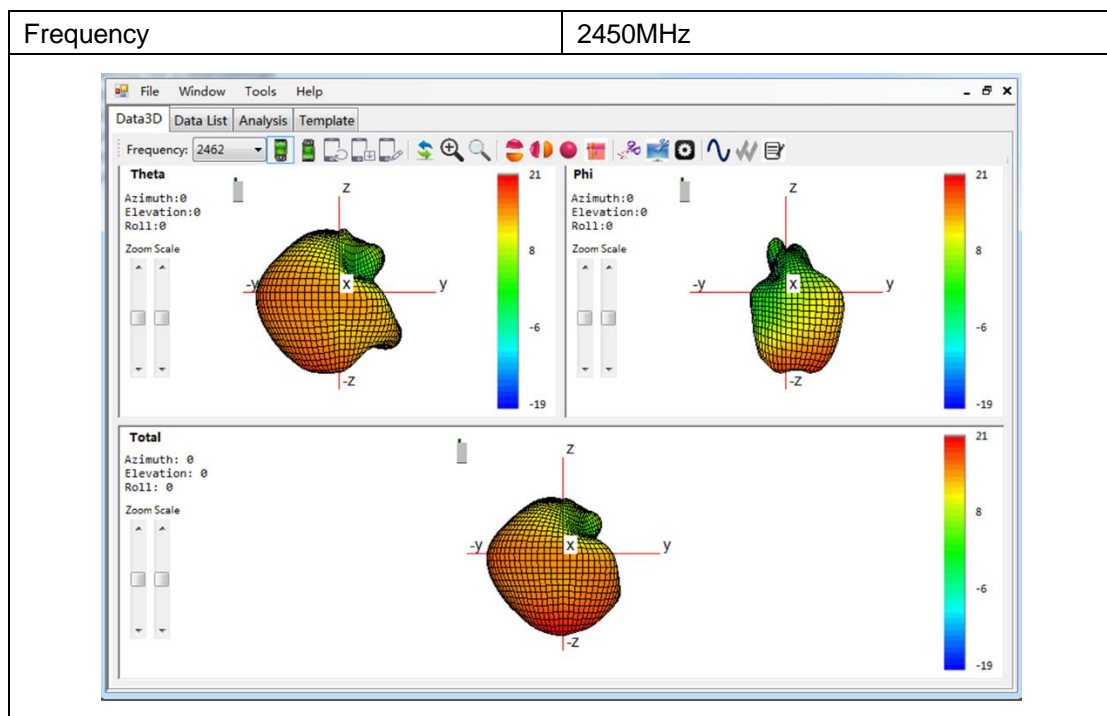
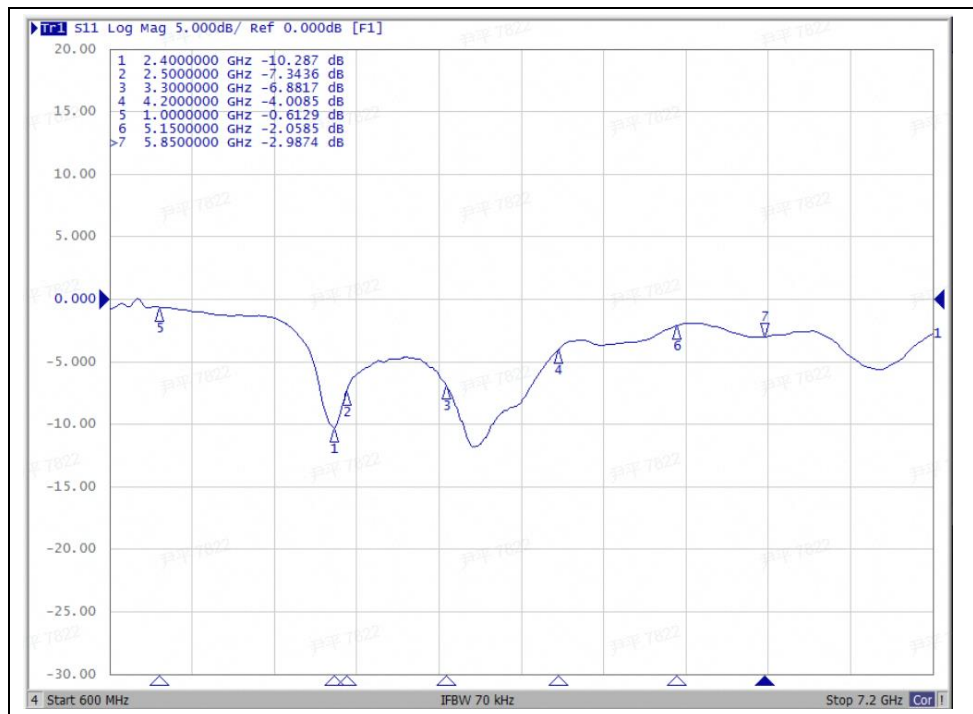


|                     |               |                |
|---------------------|---------------|----------------|
| Band for Antenna 16 | WIFI 2.4G ant |                |
|                     | Effi.(dBi)    | peak gain(dBi) |
| 2.4G                | -5            | -2             |
| Bluetooth           | -5            | -2             |





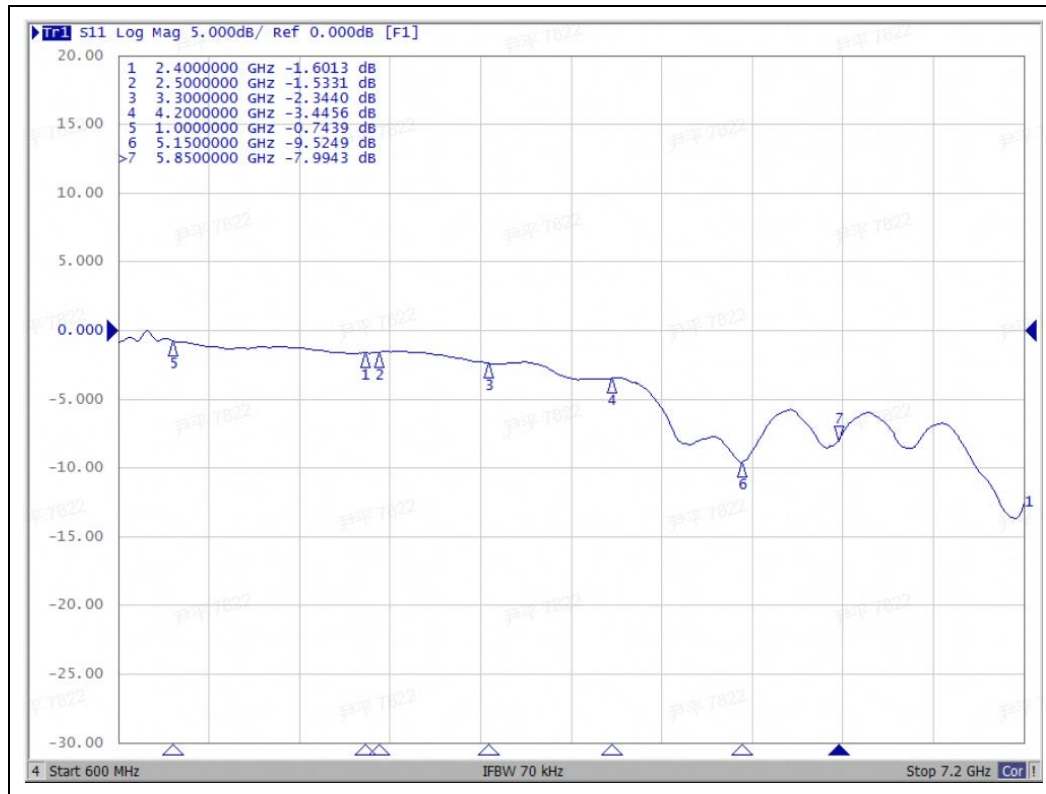
| Band for Antenna 7 | WIFI 2.4G ant |                |
|--------------------|---------------|----------------|
|                    | Effi.(dBi)    | peak gain(dBi) |
| 2.4G               | -3.7          | -1.2           |
| Bluetooth          | -3.7          | -1.2           |



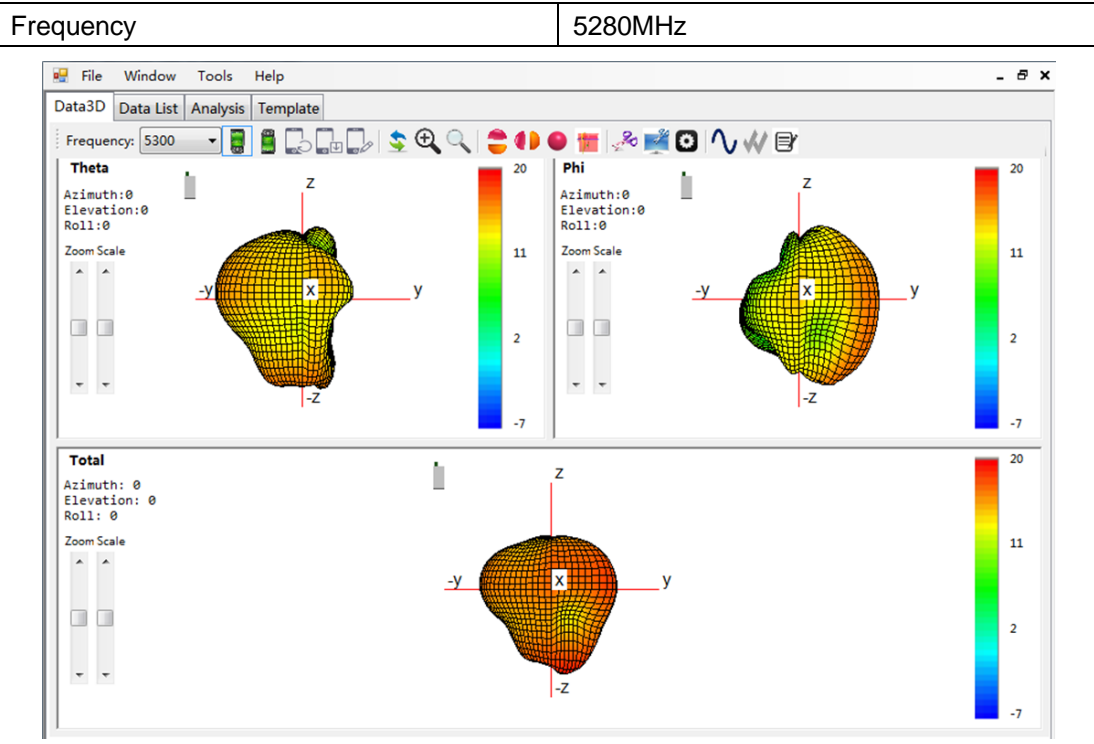
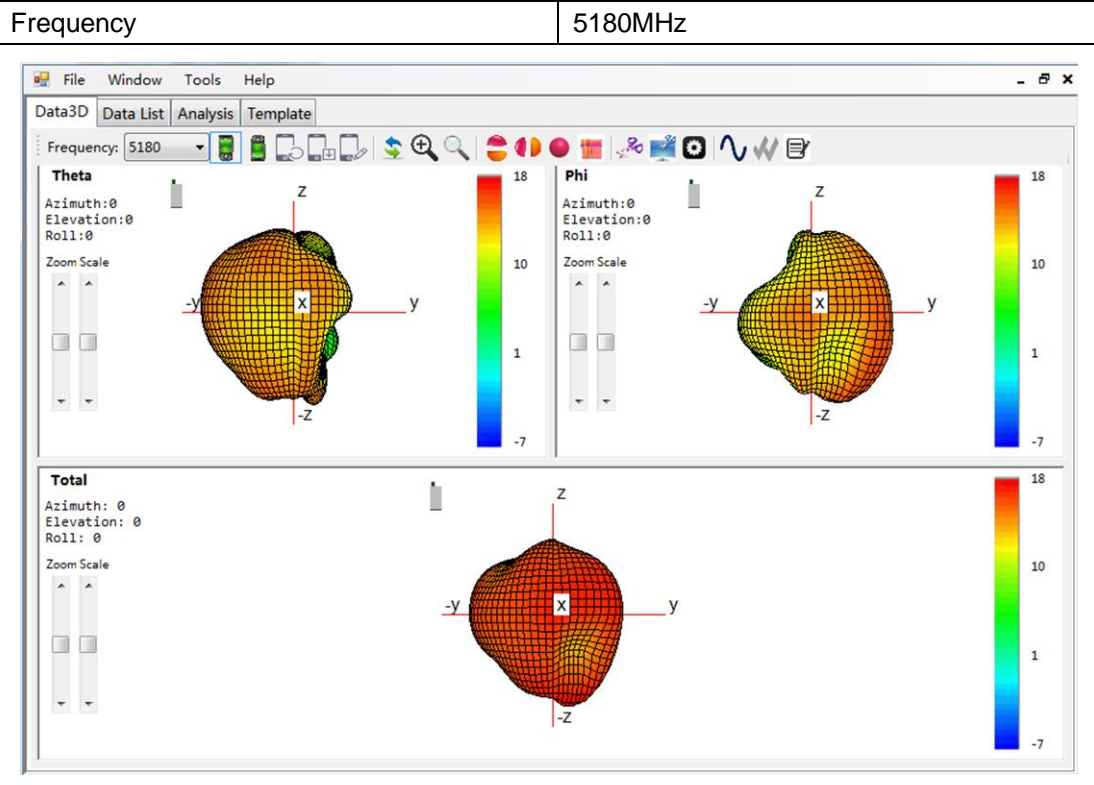




| Band for Antenna 17 | WIFI 5G ant |                |
|---------------------|-------------|----------------|
|                     | Effi.(dBi)  | peak gain(dBi) |
| 5G (5.15-5.25GHz)   | -4.7        | -2.2           |
| 5G (5.25-5.35GHz)   | -4.5        | -1.4           |
| 5G (5.47-5.725GHz)  | -4.4        | -1.1           |
| 5G (5.725-5.85GHz)  | -5          | -2.5           |



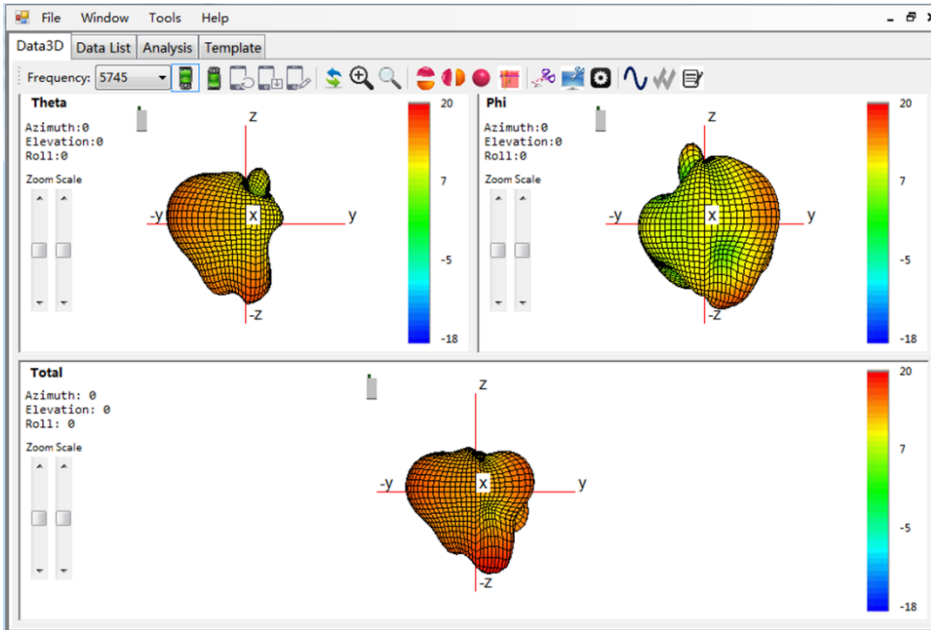






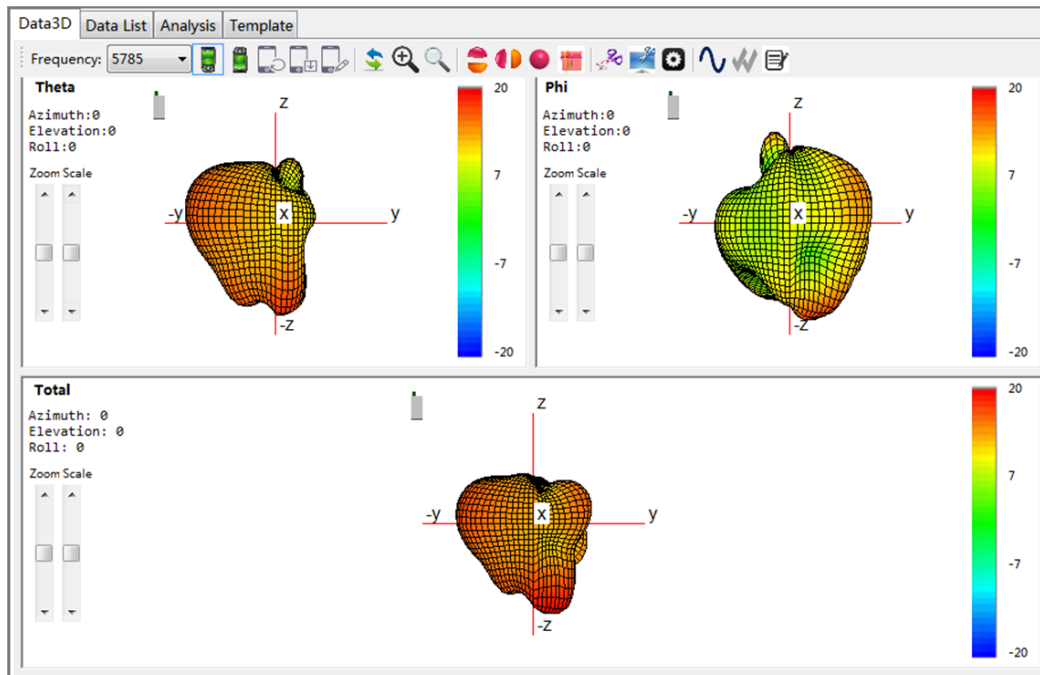
Frequency

5725MHz



Frequency

5785MHz



### 3. Main Test Instruments

| Name   | Manufacturer | Model name | Serial Number | Cal., Date | Exp., Date |
|--------|--------------|------------|---------------|------------|------------|
| E5071C | KEYSIGHT     | E5071C     | EQ80224       | 2023-9-05  | 2024-9-04  |

### 4. Test environment

