

## Feature

- ※ High gain
- ※ Omani-directional
- ※ Wide bandwidth

## Application

- ※ GSM 850/900/DCS/PCS
  - ※ WCDMA B1/B2/B4/B5/B8
  - ※ LTE B1/B2/B3/B4/B5/B7/B8/B20/B28/B66/B38/B40/B41
  - ※ NR N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N77/N78 /N79
  - ※ Bluetooth
  - ※ WIFI 802.11b/g/n
  - ※ GPS L1/L5
- communication applications

| 项目     | Name and address of the antenna manufacturer                                                                                                                                                                                                                                      | Model number of the antenna              |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| X6826C | <p>name:深圳市睿德通信科技有限公司<br/>Etheta Communication Technology(Shenzhen)CO.,Ltd<br/>address:深圳市南山区沙河西路 3011 号白沙科技产业园 1 栋 3 楼 B 区和 D 区<br/>Area B and D, 3rd Floor, Building 1, Baisha Science and Technology Industrial Park, No. 3011 Shahe West Road, Nanshan District, Shenzhen</p> | <p>AD8-A-LDS-V5.0<br/>AD9-A-LDS-V5.0</p> |

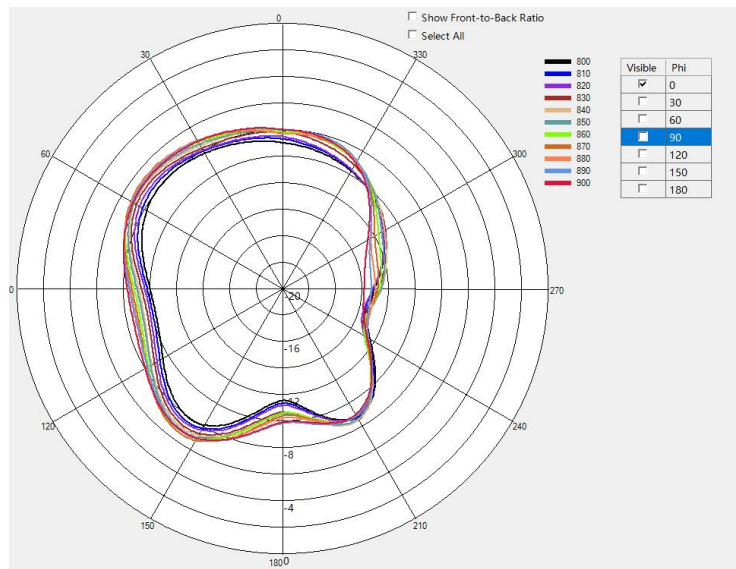
| TYPE                     | Band & Frequency                      |  |
|--------------------------|---------------------------------------|--|
| Transmitter<br>Frequency | GSM 850/WCDMA B5/LTE<br>B5:824-849MHz |  |
|                          | GSM 900/WCDMA B8/LTE<br>B8:880-915MHz |  |
|                          | DCS/LTE B3:1710-1785MHz               |  |
|                          | LTE B2/WCDMA B2/PCS:1850-<br>1910MHz  |  |
|                          | WCDMA B1/LTE B1:1920-<br>1980MHz      |  |
|                          | LTE B4/B66 WCDMA B4:1710-<br>1755MHz  |  |
|                          | LTE B7:2496-2565MHz                   |  |
|                          | LTE B20:832-862MHz                    |  |
|                          | LTE B28:710-755MHz                    |  |
|                          | LTE B38:2570-2620MHz                  |  |
|                          | LTE B40:2300-2400MHz                  |  |
|                          | LTE B41:2565-2645MHz                  |  |
|                          | NR N1:1920-1980MHz                    |  |
|                          | NR N3:1710-1785MHz                    |  |
|                          | NR N5:824-849MHz                      |  |
|                          | NR N7:2500-2570 MHz                   |  |
|                          | NR N8:880-915 MHz                     |  |
|                          | NR N20:832-862MHz                     |  |
|                          | NR N28:703-748MHz                     |  |
|                          | NR N38:2570-2620MHz                   |  |
|                          | NR N40:2300-2400 MHz                  |  |
|                          | NR N41:2535-2655 MHz                  |  |
|                          | NR N77:3300-4200MHz                   |  |
|                          | NR N78:3300-3800MHz                   |  |

|                                     |                                                                       |  |
|-------------------------------------|-----------------------------------------------------------------------|--|
|                                     | NR N79:4400-5000MHz                                                   |  |
| Receiver<br>Frequency               | GSM 850/WCDMA B5/LTE<br>B5:869-894 MHz                                |  |
|                                     | GSM 900/WCDMA B8/LTE<br>B8:925-960 MHz                                |  |
|                                     | DCS/LTE B3:1805-1880 MHz                                              |  |
|                                     | LTE B2/WCDMA B2/PCS:1930-<br>1990MHz                                  |  |
|                                     | WCDMA B1/LTE B1:2110-<br>2170MHz                                      |  |
|                                     | LTE B4/66/WCDMA B4:2110-<br>2180MHZ                                   |  |
|                                     | LTE B7:2620-2690MHz                                                   |  |
|                                     | LTE B20:791-821MHz                                                    |  |
|                                     | LTE B28:758-803MHz                                                    |  |
|                                     | LTE B38:2570-2620MHz                                                  |  |
|                                     | LTE B40:2300-2400MHz                                                  |  |
|                                     | LTE B41:2535-2655MHz                                                  |  |
|                                     | NR N1:2110-2170MHz                                                    |  |
|                                     | NR N3:1805-1880MHz                                                    |  |
|                                     | NR N5:869-894MHz                                                      |  |
|                                     | NR N7:2620-2690 MHz                                                   |  |
|                                     | NR N8:925-960 MHz                                                     |  |
|                                     | NR N20:791-821MHz                                                     |  |
|                                     | NR N28:758-803MHz                                                     |  |
|                                     | NR N38:2570-2620MHz                                                   |  |
|                                     | NR N40:2300-2400 MHz                                                  |  |
|                                     | NR N41:2535-2655 MHz                                                  |  |
|                                     | NR N77:3300-4200MHz                                                   |  |
|                                     | NR N78:3300-3800MHz                                                   |  |
|                                     | NR N79:4400-5000MHz                                                   |  |
| RF-<br>Output<br>Power<br>(E.I.R.P) | GSM850/900: 33+/-2dBm                                                 |  |
|                                     | DCS/PCS: 30+/-2dBm                                                    |  |
|                                     | LTE B1/B2/B3/B4/B5<br>/B7/B8/B20/B28/B66/B38/B40/B41<br>: 23+/-2.7dBm |  |
|                                     | WCDMA B1/W2/W4/B5/ B8:<br>24+1/-3dBm                                  |  |
|                                     | NR: 23+/-2.7dBm                                                       |  |
|                                     | N41 N77 N78/N79: 26+/-2.7dBm                                          |  |
| GPS<br>L1&WIFI                      | GPS: 0.65                                                             |  |
|                                     | WIFI 2.4G: 1.3                                                        |  |

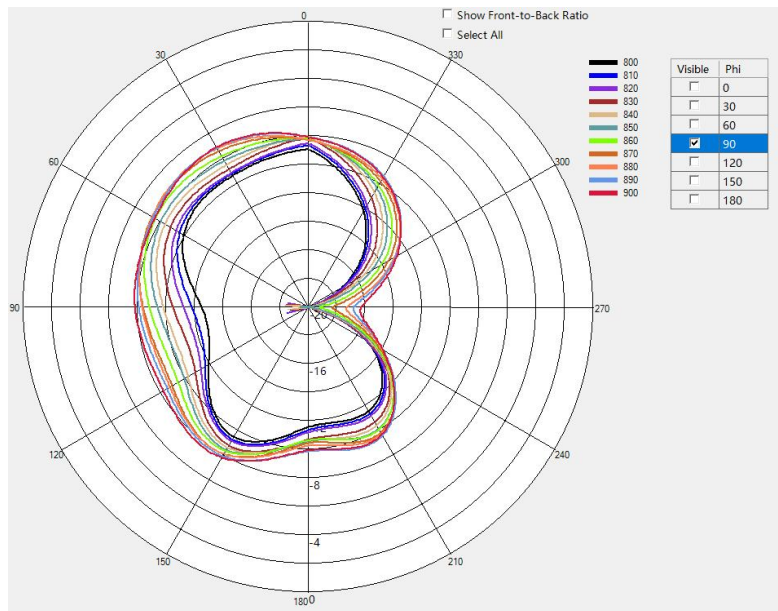
|                                               |                                        |  |
|-----------------------------------------------|----------------------------------------|--|
| 2.4G&5G<br>Antenna<br>Gain<br>(Peak<br>Gain)  | WIFI 5G: -0.9                          |  |
| N40&N41<br>&N77&N<br>78&N79<br>(Peak<br>Gain) | N40: 0.2                               |  |
|                                               | N41: 0.9                               |  |
|                                               | N77: 0.3                               |  |
|                                               | N78: 0.3                               |  |
|                                               | N79:0.4                                |  |
| WIFI<br>2.4G&WI<br>FI 5G<br>(Peak<br>Gain)    | WIFI 2.4G: 1.2                         |  |
|                                               | WIFI 5G: -0.8                          |  |
| GPS L5<br>(Peak<br>Gain)                      | GPS L5: -1.0                           |  |
| N40&N41<br>(Peak<br>Gain)                     | N40: 0.2                               |  |
|                                               | N41: 0.3                               |  |
| N77&N78<br>(Peak<br>Gain)                     | N77: 0.2                               |  |
|                                               | N78: 0.2                               |  |
|                                               | N79:0.3                                |  |
| N77&N78<br>(LDS)<br>(Peak<br>Gain)            | N77: 0.5                               |  |
|                                               | N78: 0.5                               |  |
|                                               | N79:0.6                                |  |
| Main<br>Antenna<br>Gain<br>(Peak<br>Gain)     | GSM 850/WCDMA B5/LTE B5/NR<br>N5: -1.5 |  |
|                                               | GSM 900/WCDMA B8/LTE B8/NR<br>N8: -1.3 |  |
|                                               | DCS/LTE B3/NR N3: -0.7                 |  |
|                                               | LTE B2/WCDMA B2PCS: -0.5               |  |
|                                               | WCDMA B1/LTE B1/NR N1: -0.5            |  |
|                                               | WCDMA B4/LTE B4/B66:-0.5               |  |
|                                               | LTE B7/B38/B41/NR N7/N38: -0.4         |  |
|                                               | LTE B40: 0.2                           |  |
|                                               | LTE B20/NR N20:-1.5                    |  |
|                                               | LTE B28/NR N28:-1.9                    |  |
| Type of<br>Modulatio<br>n                     |                                        |  |

## ※ Antenna Gain

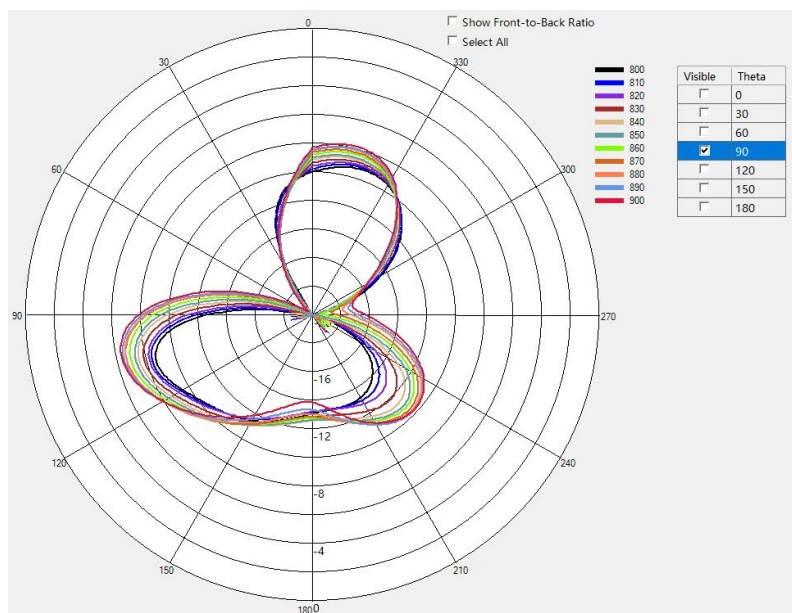
### Main Antenna



GSM850 / WCDMA B5 / LTE B5/B20 Phi=0deg



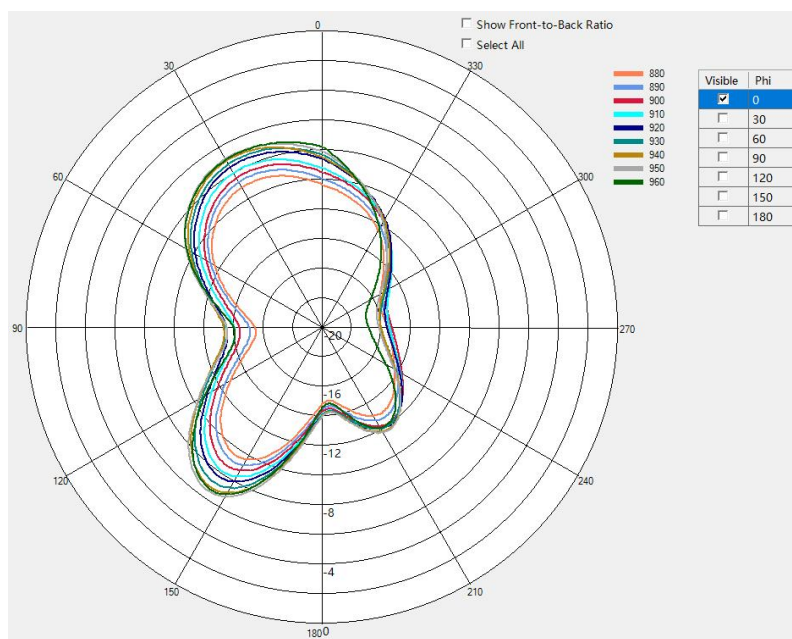
GSM850 / WCDMA B5 / LTE B5/B20 Phi=90deg



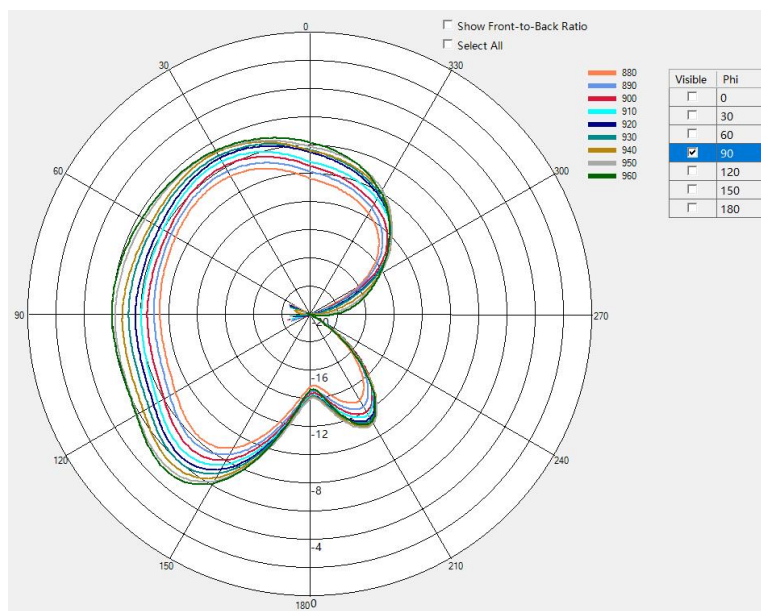
GSM850 / WCDMA B5 / LTE B5/B20 Theta=90deg

## ※ Antenna Gain

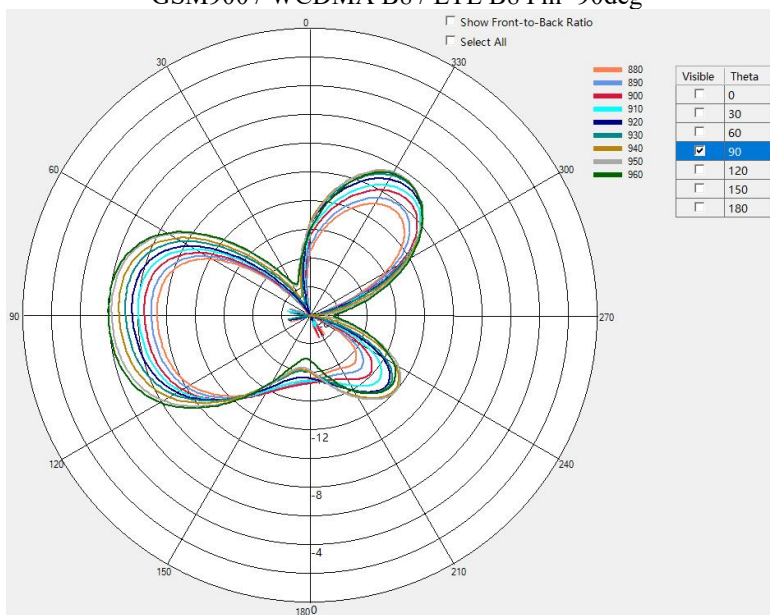
### Main Antenna



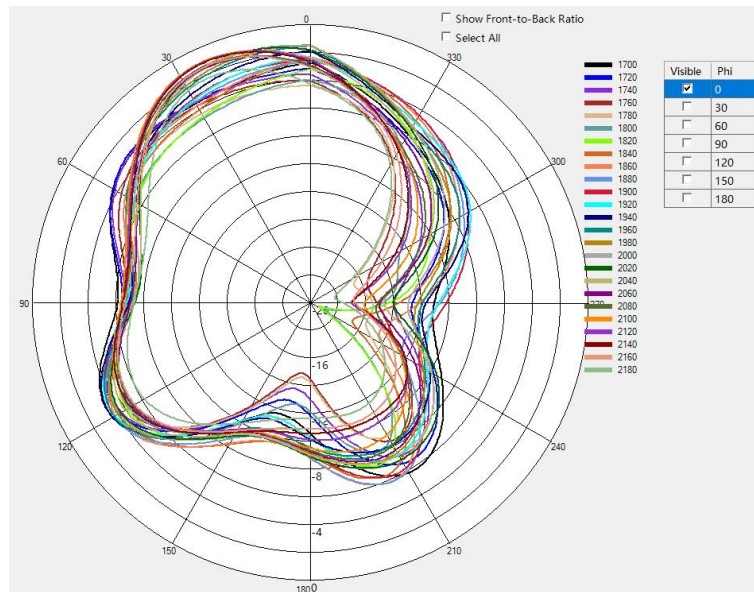
GSM900 / WCDMA B8 / LTE B8 Phi=0deg



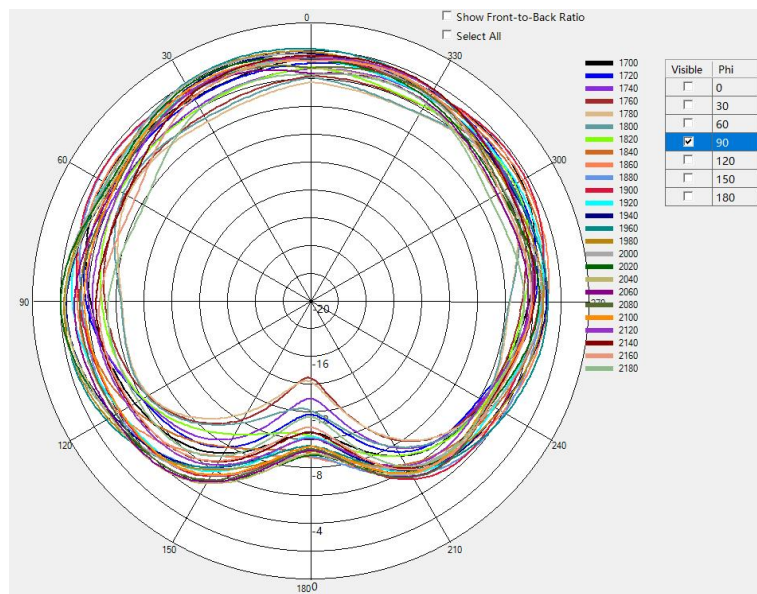
GSM900 / WCDMA B8 / LTE B8 Phi=90deg



GSM900 / WCDMA B8 / LTE B8 Theta=90deg

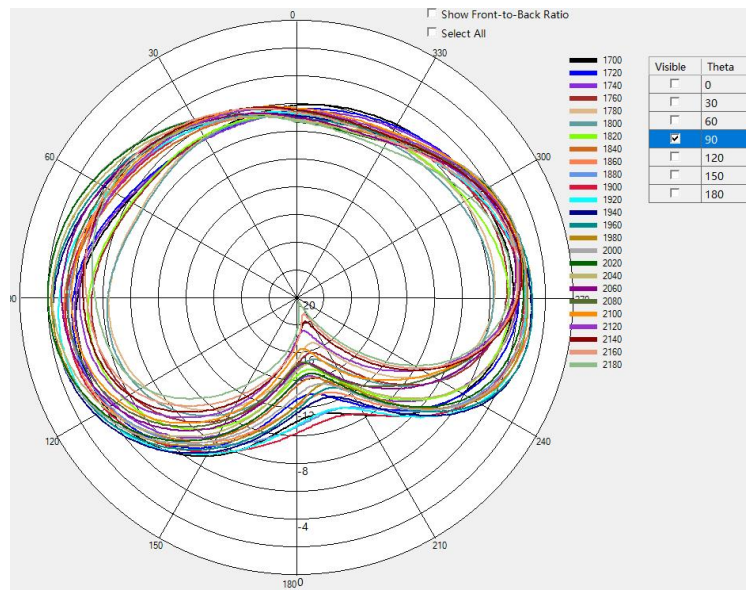


DCS1800/PCS1900/WCDMA B1 LTE B1/B3 Phi=0deg



DCS1800/PCS1900/WCDMA B1 LTE B1/B3 Phi=90deg

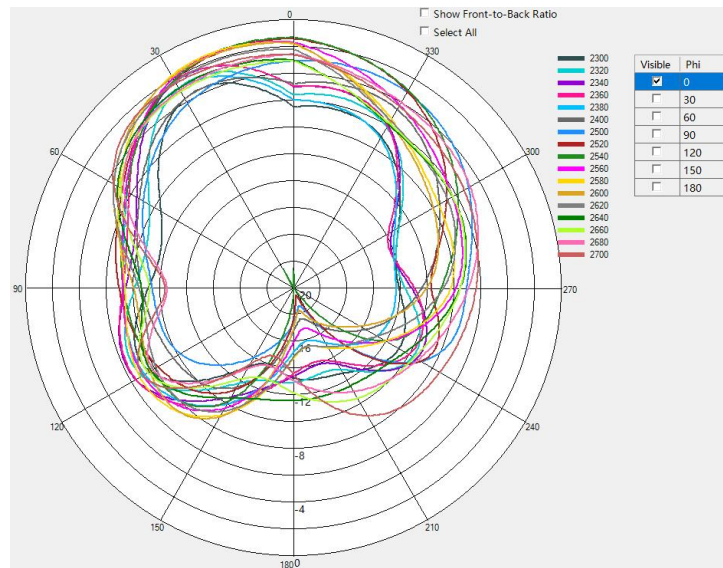




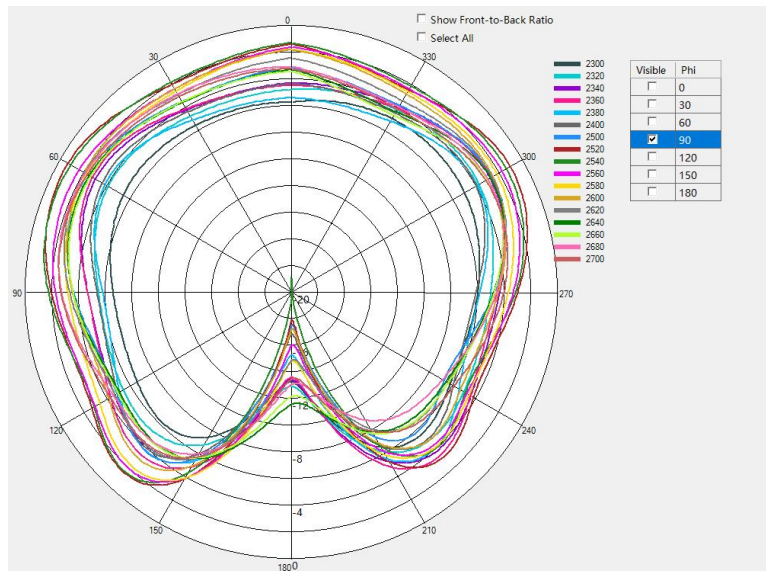
DCS1800/PCS1900/WCDMA B1 LTE B1/B3 Theta=90deg

## ✂ Antenna Gain

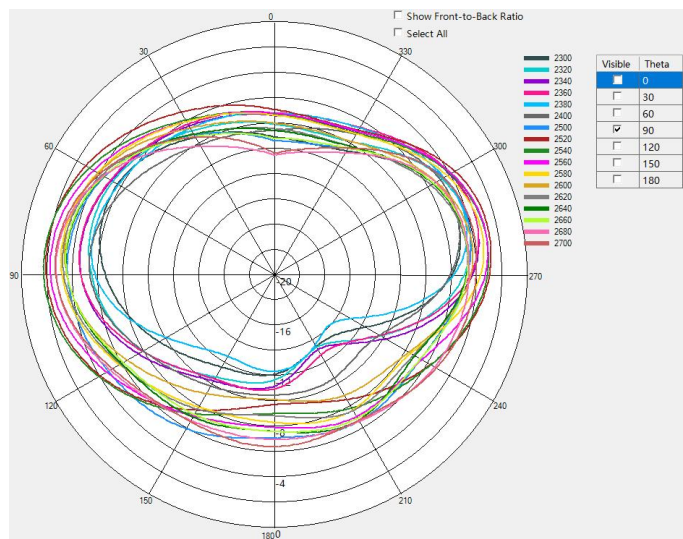
### Main Antenna



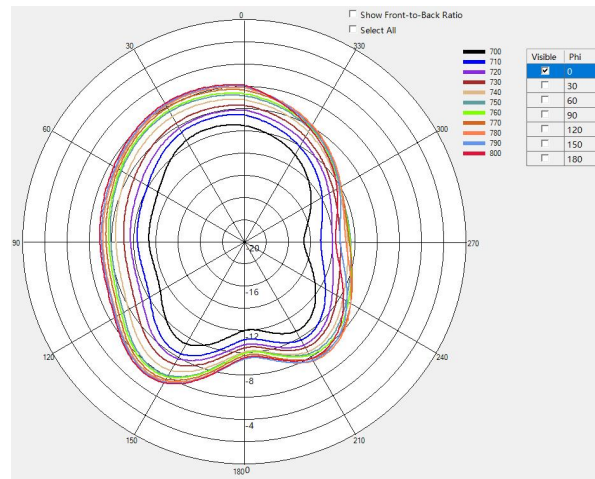
LTE B7/B40/B38/41 Phi=0deg



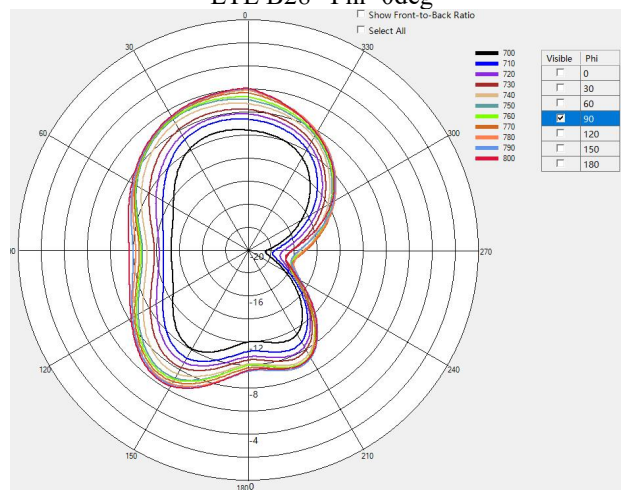
LTE B7/B40/B38/41 Phi=90deg



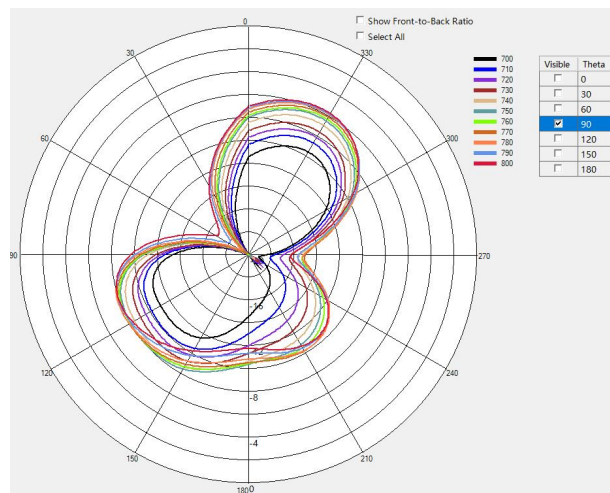
LTE B7/B40/B38/41 Theta=90deg



LTE B28 Phi=0deg



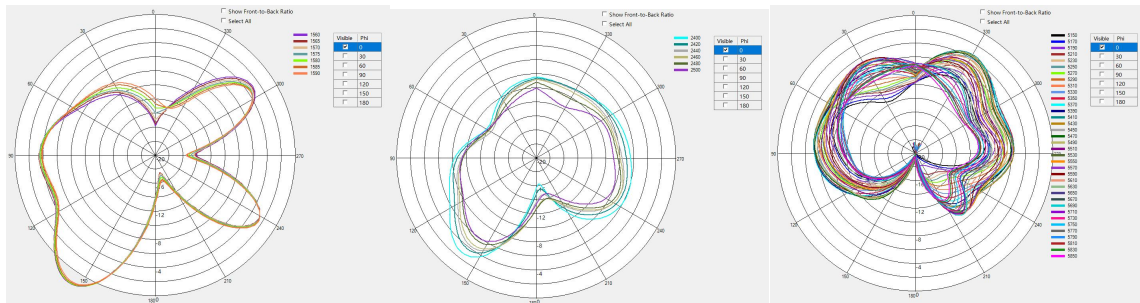
LTE B28 Phi=90deg



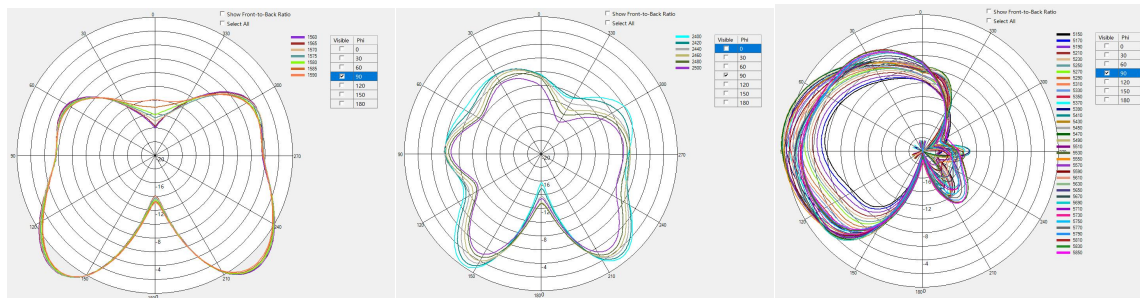
LTE B28 Theta=90deg

## ※ Antenna Gain

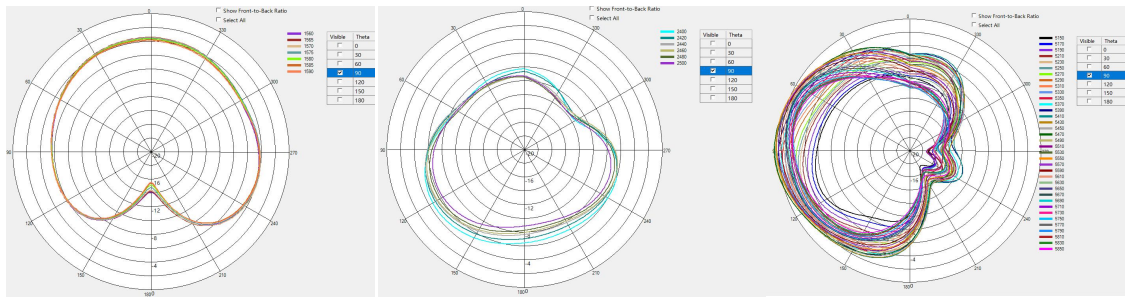
### 4 in 1 Antenna



GPS/BT/2.4G WIFI/5G WIFI  $\Phi=0^\circ$



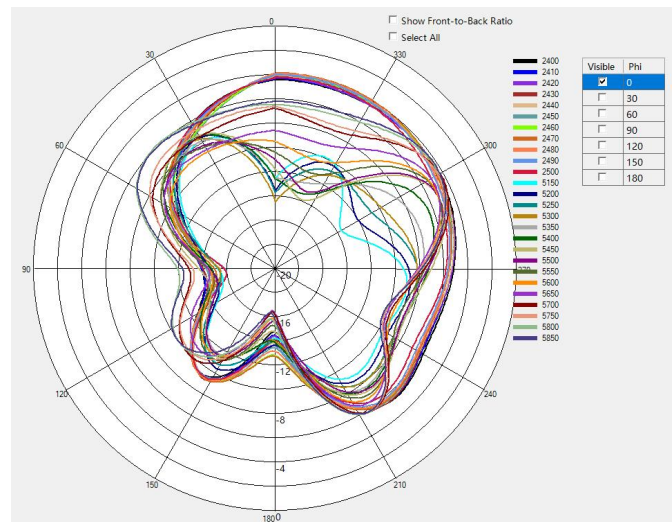
GPS/BT/2.4G WIFI/5G WIFI  $\Phi=90^\circ$



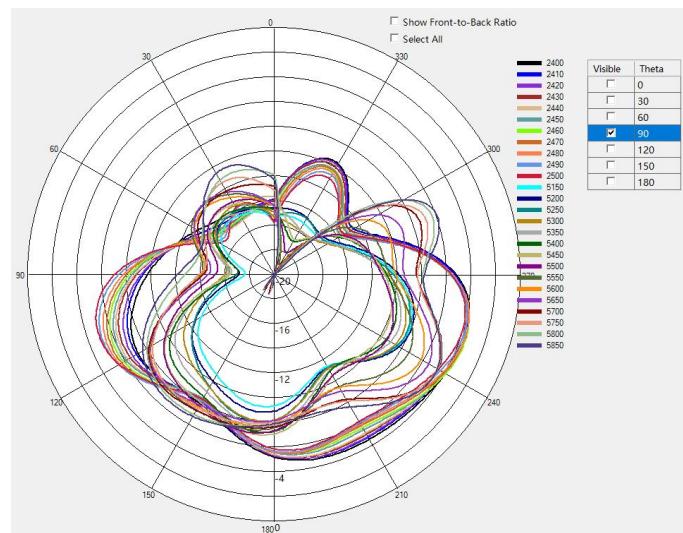
GPS/BT/2.4G WIFI/5G WIFI Theta=90deg

## ※ Antenna Gain

### WIFI MIMO Antenna

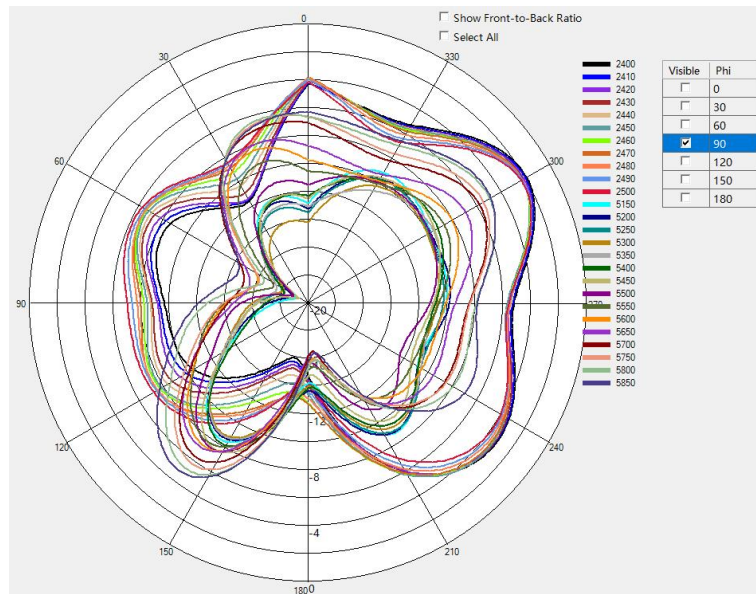


2.4G WIFI&5G WIFI Phi=0deg



2.4G WIFI&5G WIFI Phi=90deg

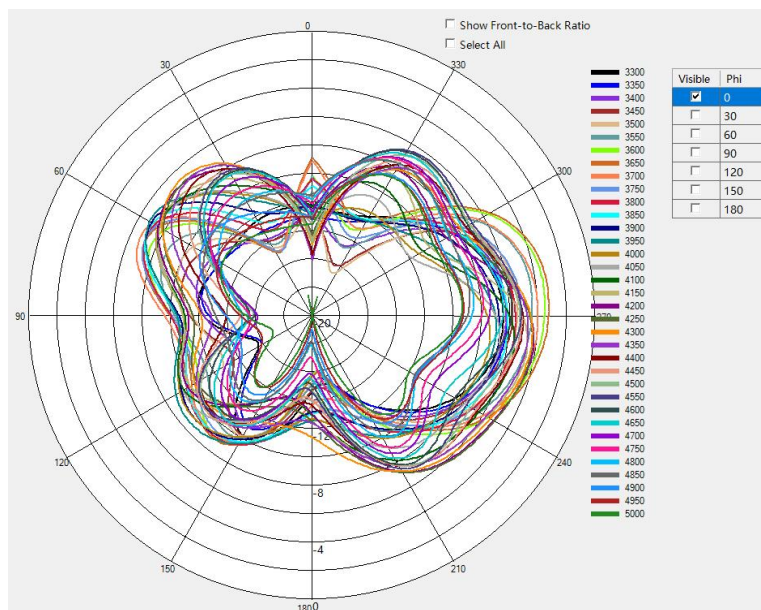




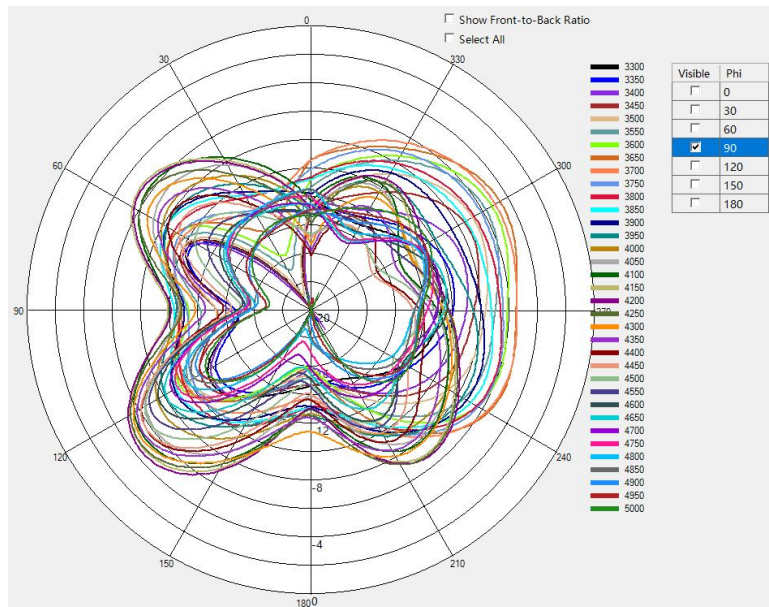
2.4G WIFI&5G WIFI Theta=90deg

※ Antenna Gain

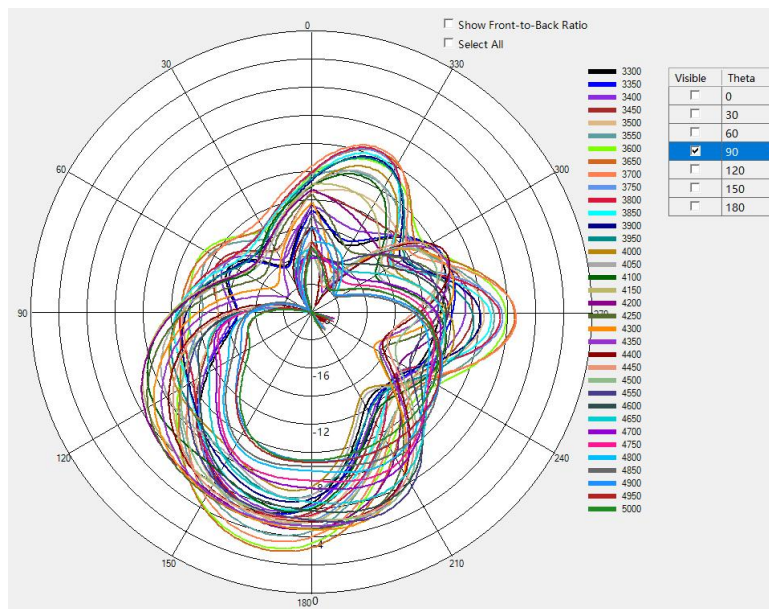
SUB 6G PRX Antenna



N77/N78/N79 Phi=0deg



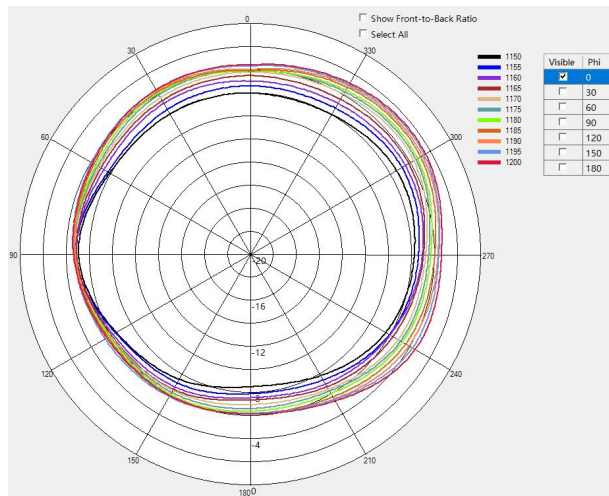
N77/N78/N79 Phi=90deg



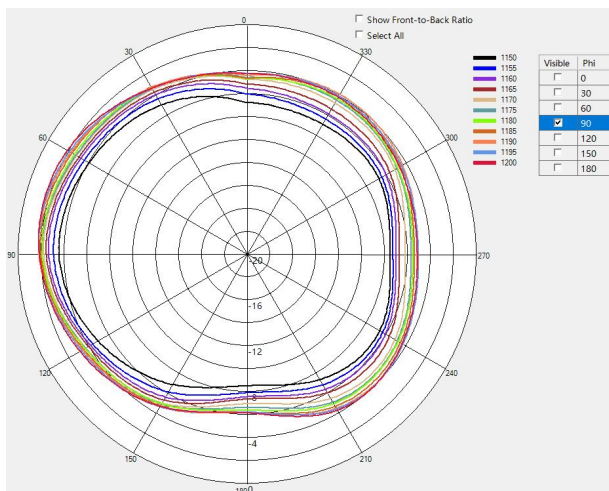
N77/N78/N79 Theta=90deg

※ Antenna Gain

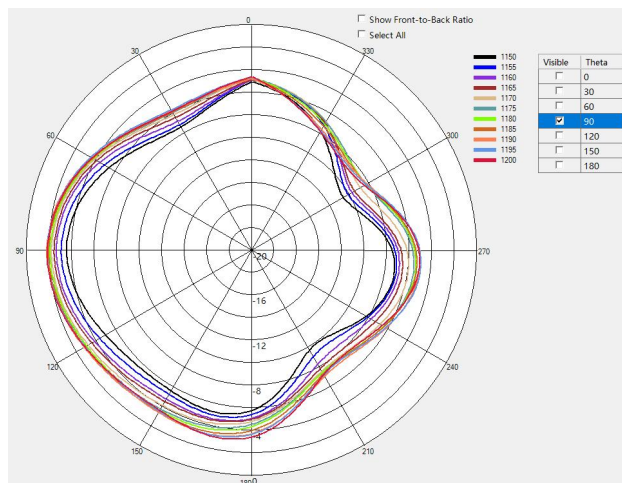
GPS L5 Antenna



GPS L5 Phi=0deg



GPS L5 Phi=90deg



GPS L5 Theta=90deg



※ Antenna Gain

| PREPARED BY | CHECKEDBY | APPROVAL BY | S.R.NO |  |
|-------------|-----------|-------------|--------|--|
|             |           |             | DATE:  |  |