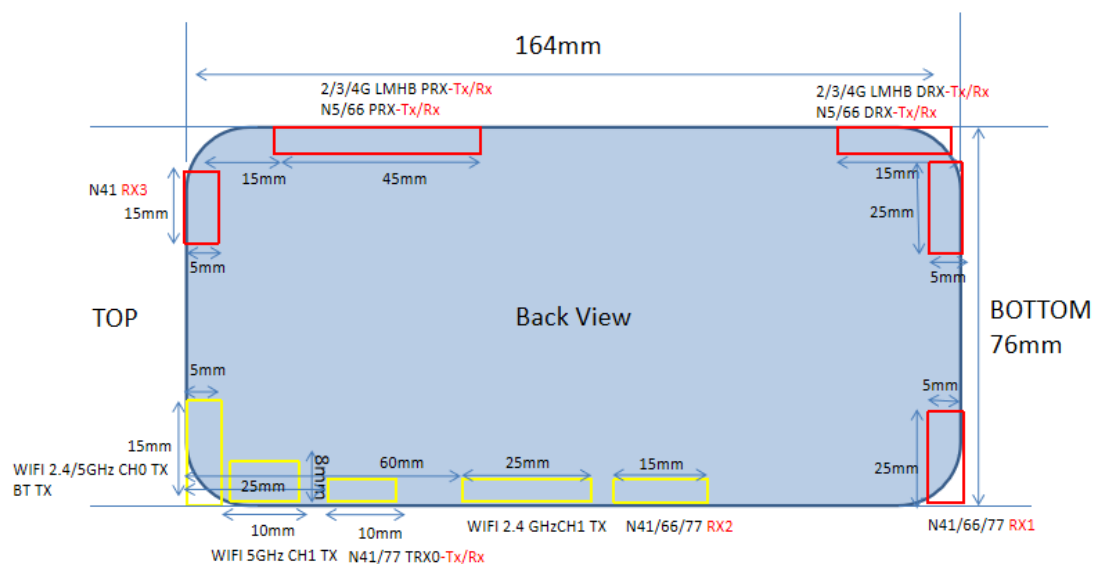


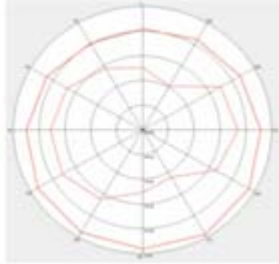
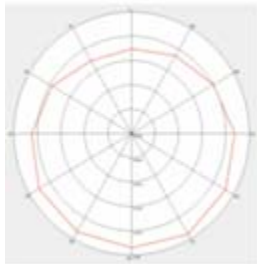
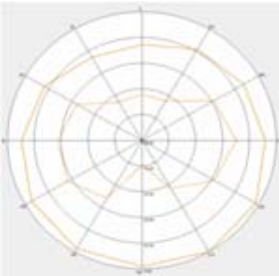
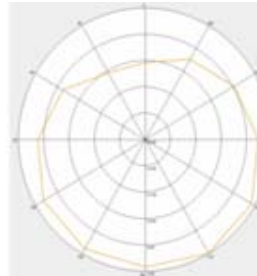
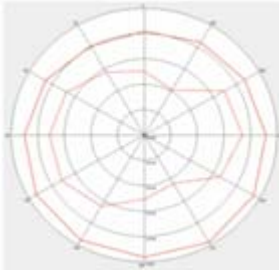
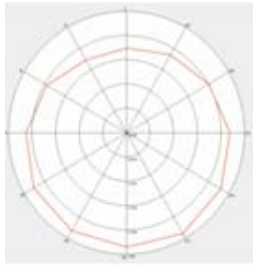
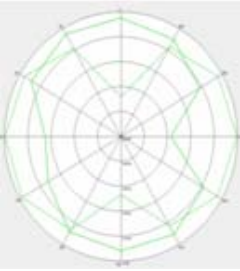
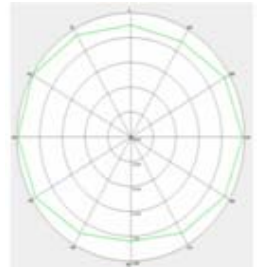
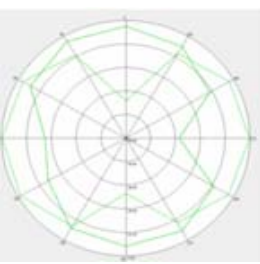
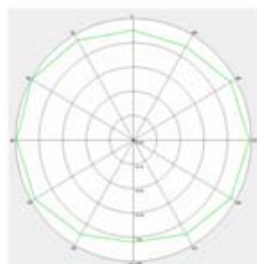
# Shenzhen Tengfei Technology Management Ltd.

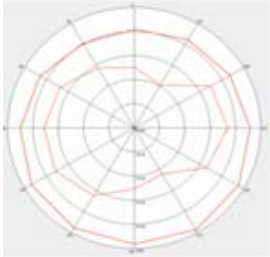
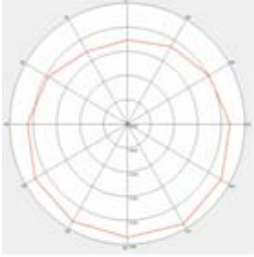
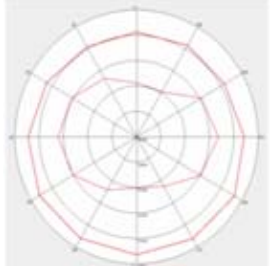
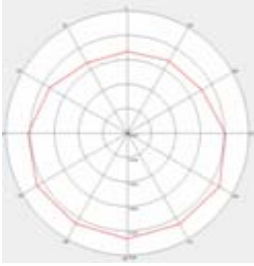
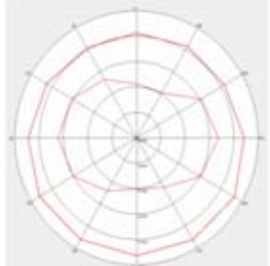
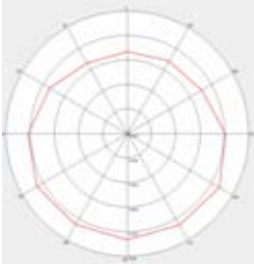
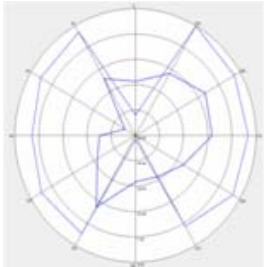
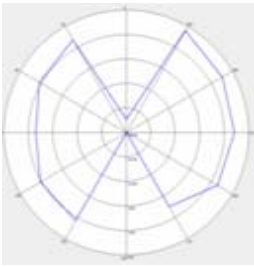
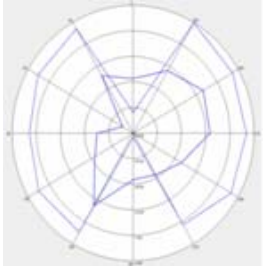
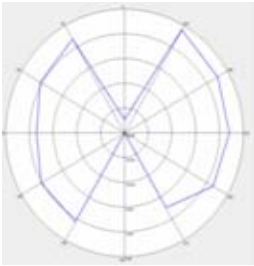
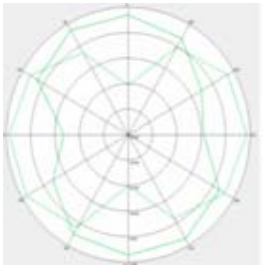
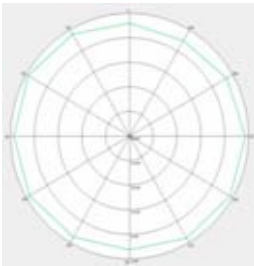
## Antenna parameter sheet for NX729J

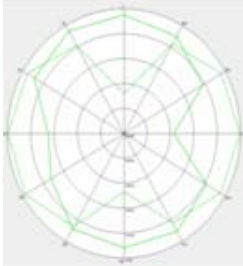
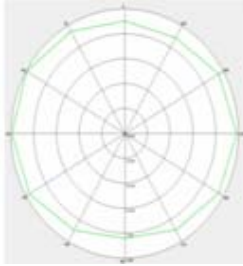
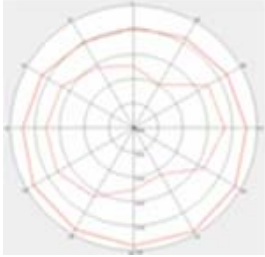
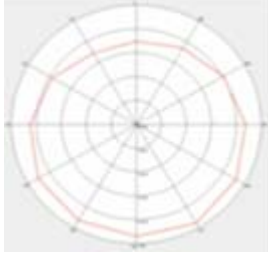
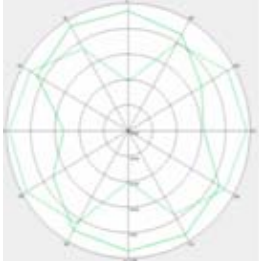
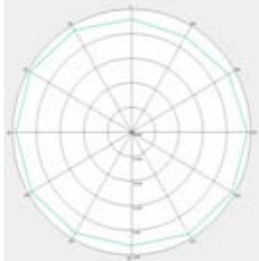
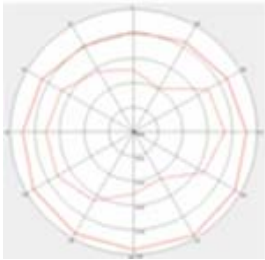
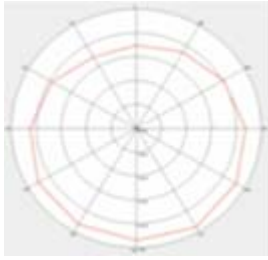
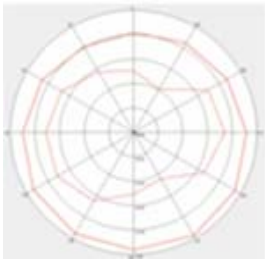
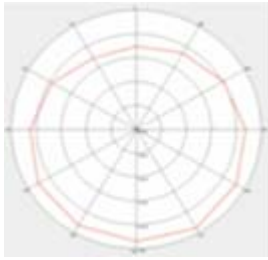
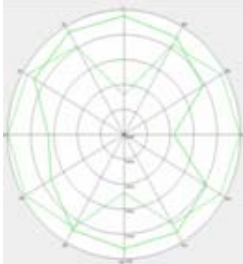
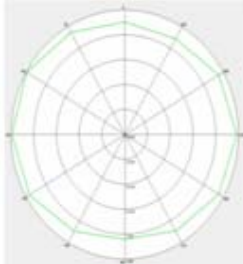
|                      | Main antenna                                                     | Diversity antenna        | GPS/WIFI/BT antenna        | NR antenna        |
|----------------------|------------------------------------------------------------------|--------------------------|----------------------------|-------------------|
| Antenna type         | Internal PIFA                                                    | Internal PIFA            | Internal PIFA              | Internal PIFA     |
| Model                | NX729J_main antenna                                              | NX729J_Diversity antenna | NX729J_GPS/WIFI/BT antenna | NX729J_NR antenna |
| Antenna manufacturer | Shenzhen Zhongtian Xun Communication Technology Shares Co., Ltd. |                          |                            |                   |
| Antenna position     | up                                                               | bottom                   | up                         | up                |

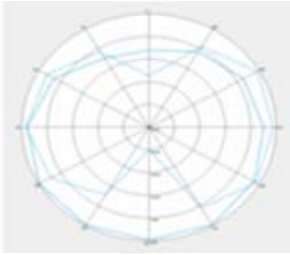
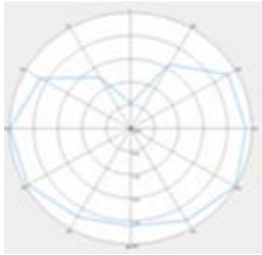
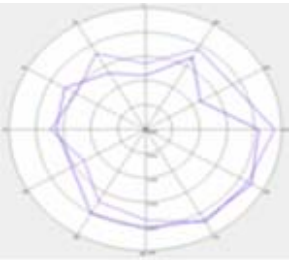
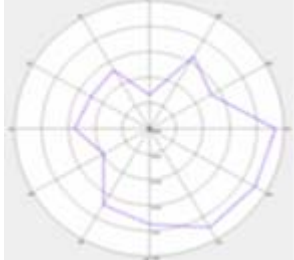
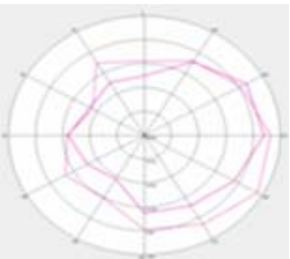
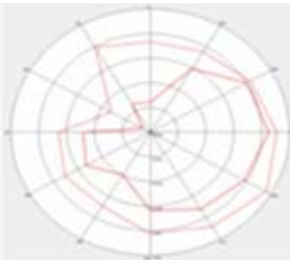
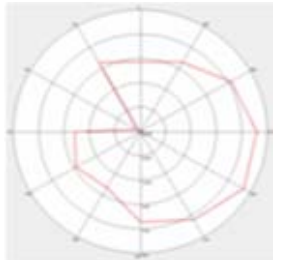
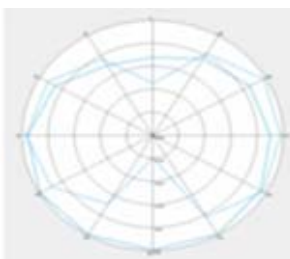
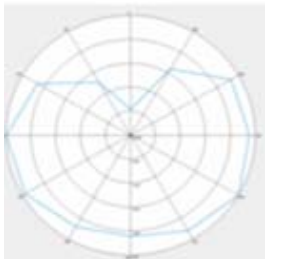
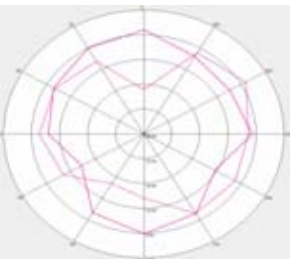
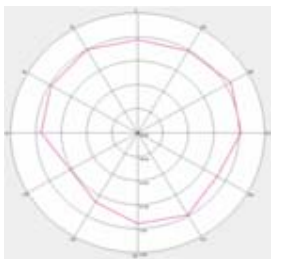


## Radiated pattern diagram

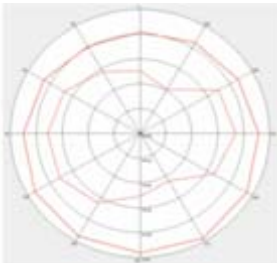
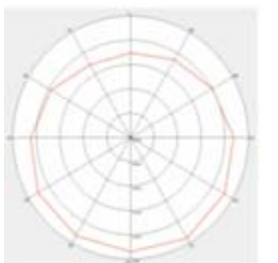
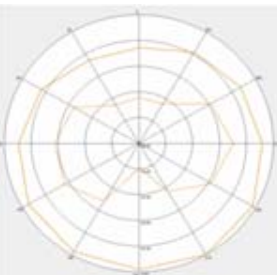
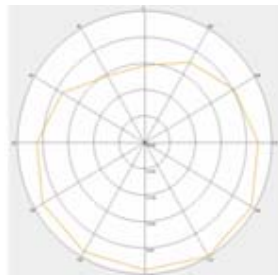
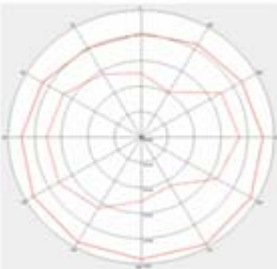
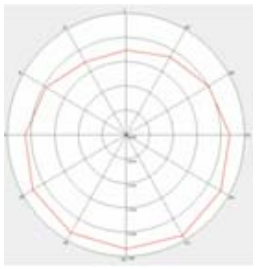
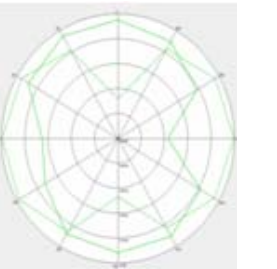
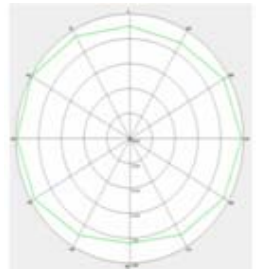
| Antenna             | PIFA Antenna (Main antenna)                                                         |                                                                                      |                    |
|---------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------|
| Band                | Radiated pattern diagram                                                            |                                                                                      | Gain data<br>(dBi) |
|                     | H\V                                                                                 | H+V                                                                                  |                    |
| LTE B19<br>(834MHz) |    |    | -3.4               |
| LTE B5<br>(840MHz)  |   |   | -3.4               |
| LTE B26<br>(831MHz) |  |  | -3.4               |
| LTE B4<br>(1740MHz) |  |  | -1.5               |
| LTE B2<br>(1850MHz) |  |  | -1.5               |

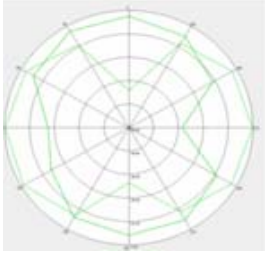
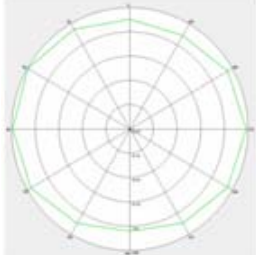
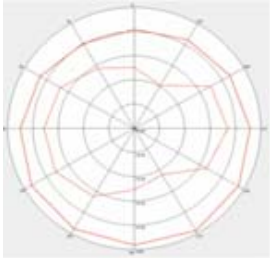
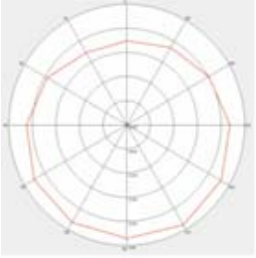
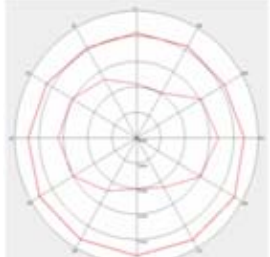
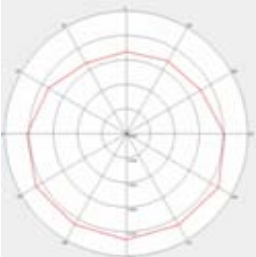
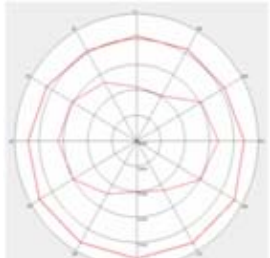
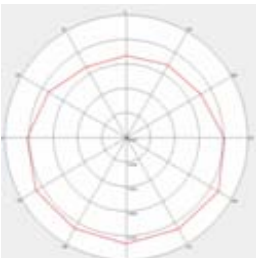
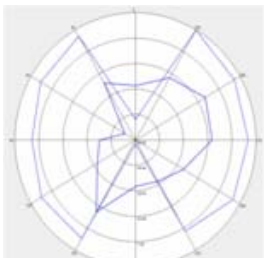
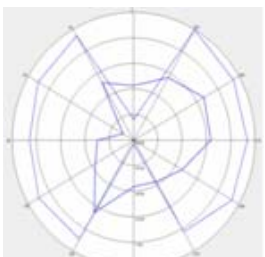
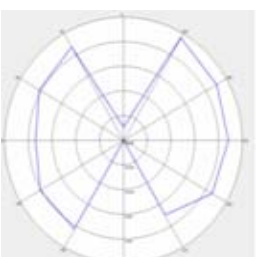
|                       |                                                                                     |                                                                                      |      |
|-----------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|
| LTE B18<br>(830MHz)   |    |    | -3.4 |
| LTE B17<br>(710MHz)   |    |    | -4.7 |
| LTE B12<br>(710MHz)   |   |   | -4.7 |
| LTE B66<br>(1740MHz)  |  |  | -1.5 |
| LTE B7<br>(2500MHz)   |  |  | -1.5 |
| WCDMA B2<br>(1850MHz) |  |  | -1.5 |

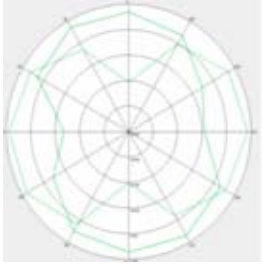
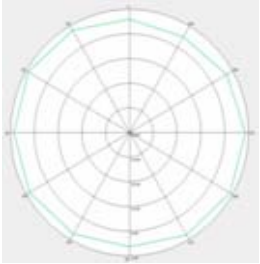
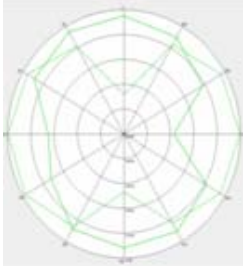
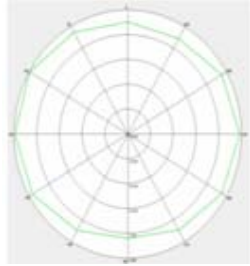
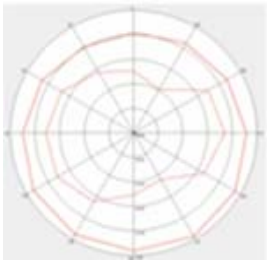
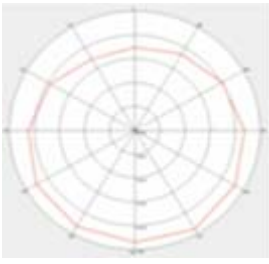
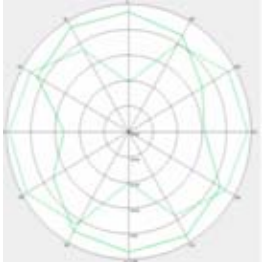
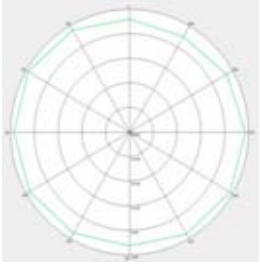
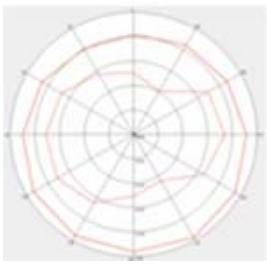
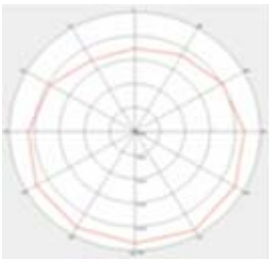
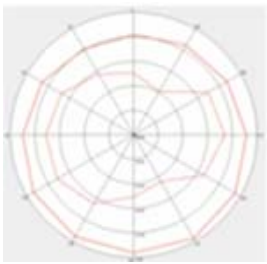
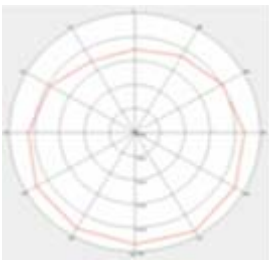
|                       |                                                                                     |                                                                                      |      |
|-----------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|
| WCDMA B4<br>(1740MHz) |    |    | -1.5 |
| WCDMA B5<br>(835MHz)  |    |    | -3.4 |
| GSM B2<br>(1850MHz)   |   |   | -1.5 |
| GSM B5<br>(835MHz)    |  |  | -3.4 |
| CDMA BC0<br>(835MHz)  |  |  | -3.4 |
| CDMA BC1<br>(1850MHz) |  |  | -1.5 |

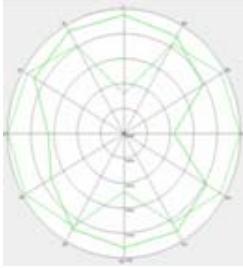
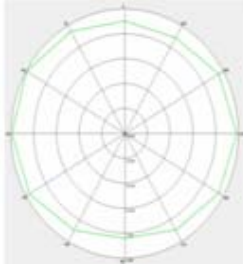
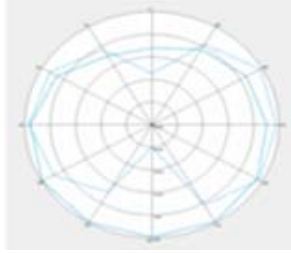
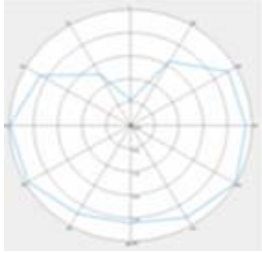
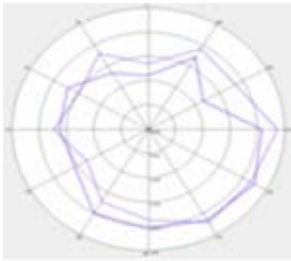
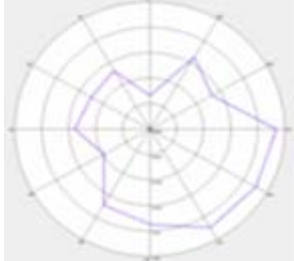
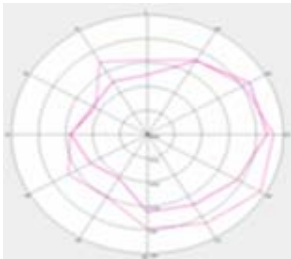
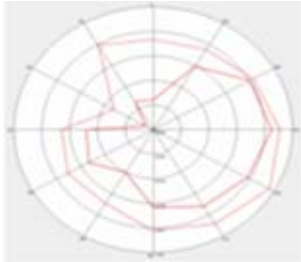
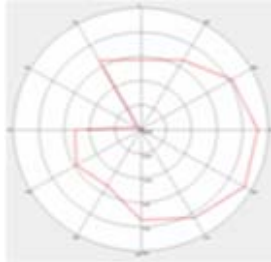
|                                     |                                                                                     |                                                                                      |      |
|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|
| WIFI 2.4G<br>11g ( 2420MHz )<br>CH0 |    |    | 0.7  |
| WIFI 5G<br>11a ( 5150MHz )<br>CH0   |    |    | -0.2 |
| WIFI 5G<br>11a ( 5500MHz )<br>CH0   |   |   | -0.5 |
| WIFI 5G<br>11a ( 5850MHz )<br>CH0   |  |  | -2   |
| BT(2425MHz)                         |  |  | 0.7  |
| N66(1750MHz)                        |  |  | -0.5 |

|              |                                                                                   |                                                                                    |    |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----|
| N41(2600MHz) |  |  | -1 |
|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----|

| Antenna             | PIFA Antenna (Diversity antenna)                                                    |                                                                                      |                      |
|---------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------|
| Band                | Radiated pattern diagram                                                            |                                                                                      | Gain data<br>( dBi ) |
|                     | H\V                                                                                 | H+V                                                                                  |                      |
| LTE B19<br>(834MHz) |   |   | -4.5                 |
| LTE B5<br>(840MHz)  |  |  | -4.5                 |
| LTE B26<br>(831MHz) |  |  | -4.5                 |
| LTE B4<br>(1740MHz) |  |  | -3                   |

|                      |                                                                                     |                                                                                      |      |
|----------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|
| LTE B2<br>(1850MHz)  |    |    | -3   |
| LTE B18<br>(830MHz)  |    |    | -4.5 |
| LTE B17<br>(710MHz)  |   |   | -4.9 |
| LTE B12<br>(710MHz)  |  |  | -4.9 |
| LTE B66<br>(1740MHz) |  |  | -3   |
| LTE B7<br>(2500MHz)  |  |  | -2.2 |

|                       |                                                                                     |                                                                                      |      |
|-----------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|
| WCDMA B2<br>(1850MHz) |    |    | -3   |
| WCDMA B4<br>(1740MHz) |    |    | -3   |
| WCDMA B5<br>(835MHz)  |   |   | -4.5 |
| GSM B2<br>(1850MHz)   |  |  | -3   |
| GSM B5<br>(835MHz)    |  |  | -4.5 |
| CDMA BC0<br>(835MHz)  |  |  | -4.5 |

|                                     |                                                                                     |                                                                                      |      |
|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|
| CDMA BC1<br>(1850MHz)               |    |    | -3   |
| WIFI 2.4G<br>11g ( 2420MHz )<br>CH1 |    |    | -0.5 |
| WIFI 5G<br>11a ( 5150MHz )<br>CH1   |   |   | -0.8 |
| WIFI 5G<br>11a ( 5500MHz )<br>CH1   |  |  | -1   |
| WIFI 5G<br>11a ( 5850MHz )<br>CH1   |  |  | -0.5 |

# VSWR&Gain

|                         |      |      |      |      |      |      |      |       |
|-------------------------|------|------|------|------|------|------|------|-------|
| Main antenna            |      |      |      |      |      |      |      |       |
| Freq(MHz)               | 703  | 824  | 960  | 1710 | 1990 | 2170 | 2500 | 2690  |
| VSWR                    | 3.5  | 3    | 3.2  | 1.5  | 1.2  | 2.4  | 1.8  | 2.3   |
| Gain(dBi)               | -4.7 | -3.4 | -3.6 | -1.5 | -1.3 | -2   | -1.5 | -2.07 |
| Diversity antenna       |      |      |      |      |      |      |      |       |
| Freq(MHz)               | 703  | 824  | 960  | 1710 | 1990 | 2170 | 2500 | 2690  |
| VSWR                    | 6    | 3.4  | 3.8  | 2.1  | 1.8  | 2    | 1.5  | 1.9   |
| Gain(dBi)               | -4.9 | -4.5 | -5   | -3   | -2.1 | -2.1 | -2.2 | -2.2  |
| GPS/WIFI CH0/BT antenna |      |      |      |      |      |      |      |       |
| Freq(MHz)               | 1571 | 2400 | 2500 | 5200 | 5500 | 5800 |      |       |
| VSWR (MHz)              | 2    | 2.1  | 2.1  | 3    | 2.1  | 4    |      |       |
| Gain(dBi)               | -1   | 0.7  | 0.7  | -0.2 | -0.5 | -2   |      |       |
| WIFI CH1 antenna        |      |      |      |      |      |      |      |       |
| Freq(MHz)               |      | 2400 | 2500 | 5200 | 5500 | 5800 |      |       |
| VSWR (MHz)              |      | 2.6  | 2.6  | 2.8  | 3    | 2.5  |      |       |
| Gain(dBi)               |      | -0.5 | -0.5 | -0.8 | -1   | -0.5 |      |       |
| NR antenna              |      |      |      |      |      |      |      |       |
| Freq(MHz)               | 1700 | 2500 | 2700 |      |      |      |      |       |
| VSWR (MHz)              | 2.6  | 2.4  | 2.6  |      |      |      |      |       |
| Gain(dBi)               | -0.5 | -0.5 | -1   |      |      |      |      |       |

## TRP&TIS (Free Space)

| Band     | WCDMA B2 |        |        | WCDMA B4 |        |        | WCDMA B5 |        |        |
|----------|----------|--------|--------|----------|--------|--------|----------|--------|--------|
| TRP(dBm) | 18.02    | 18.08  | 18.18  | 17.83    | 17.87  | 17.87  | 16.16    | 16.19  | 16.57  |
| TIS(dBm) | -107.7   | -107.8 | -107   | -106.8   | -106.5 | -106.7 | -104.6   | -104.2 | -103.7 |
| Band     | LTE B7   |        |        | LTE B4   |        |        | LTE B2   |        |        |
| TRP(dBm) | 17.80    | 18.11  | 18.48  | 18.55    | 18.42  | 18.61  | 18.24    | 18.15  | 17.87  |
| TIS(dBm) | -90.3    | -90.8  | -91.2  | -96.7    | -96.8  | -96.7  | -95.8    | -95.6  | -95.9  |
| Band     | LTE B5   |        |        | LTE B18  |        |        | LTE B19  |        |        |
| TRP(dBm) | 16.38    | 16.39  | 16.22  | 15.66    | 15.86  | 16     | 16.43    | 16.75  | 16.78  |
| TIS(dBm) | -91.09   | -91.21 | -91.24 | -91.05   | -91.27 | -90.8  | -89.94   | -90.5  | -90.6  |
| Band     | LTE B26  |        |        | LTE B12  |        |        | LTE B66  |        |        |
| TRP(dBm) | 15.47    | 16.06  | 16.5   | 16.95    | 16.88  | 16.82  | 17.84    | 17.63  | 17.81  |
| TIS(dBm) | -93.24   | -94.25 | -93.33 | -90.20   | -90.03 | -90.41 | -96.3    | -96.29 | -96.38 |
| Band     | LTE B17  |        |        | NR 66    |        |        | NR 41    |        |        |
| TRP(dBm) | 16.46    | 16.49  | 16.31  | 18.84    | 18.63  | 18.81  | 18.42    | 18.05  | 17.04  |
| TIS(dBm) | -90.72   | -92.1  | -91.14 | -86.38   | -86.9  | -86.3  | -86.67   | -86.39 | -86.33 |
| Band     | GSM B2   |        |        | GSM B5   |        |        | CDMA BC0 |        |        |
| TRP(dBm) | 24.5     | 24.9   | 25.1   | 25.4     | 25.4   | 25.2   | 17.3     | 17.2   | 17.4   |
| TIS(dBm) | -105.7   | -105.6 | -105.2 | -102.2   | -102.4 | -102   | -102.3   | -102.7 | -102   |
| Band     | CDMA BC1 |        |        |          |        |        |          |        |        |
| TRP(dBm) | 25.3     | 25.4   | 25.4   |          |        |        |          |        |        |
| TIS(dBm) | -105.6   | 105.47 | 105.38 |          |        |        |          |        |        |

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