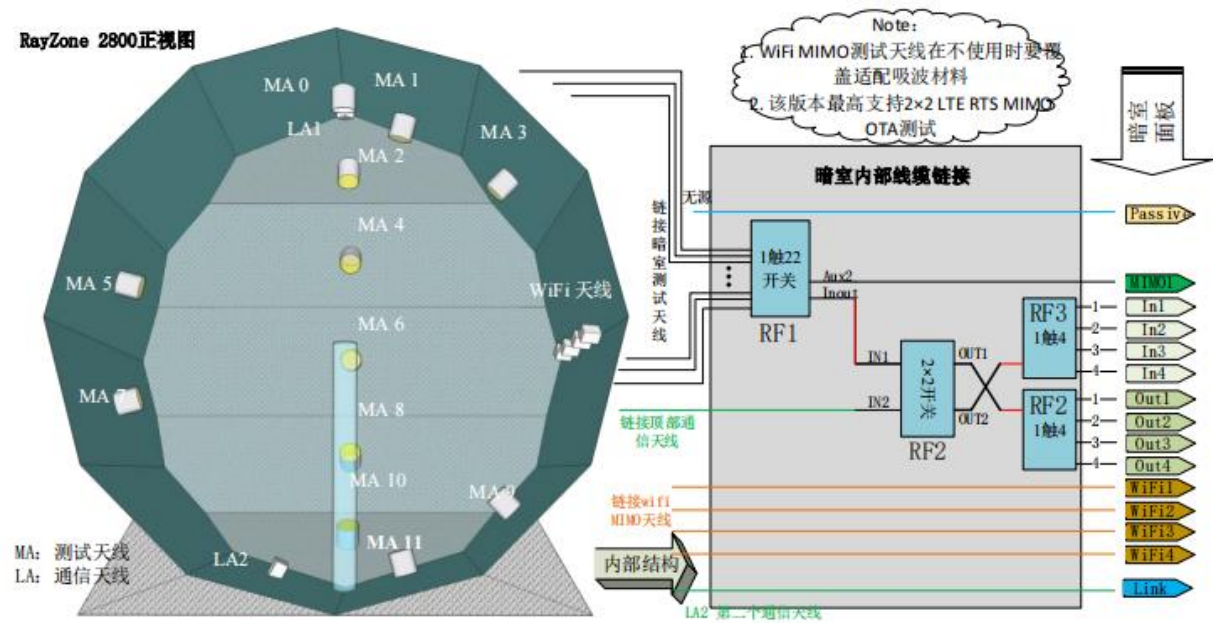


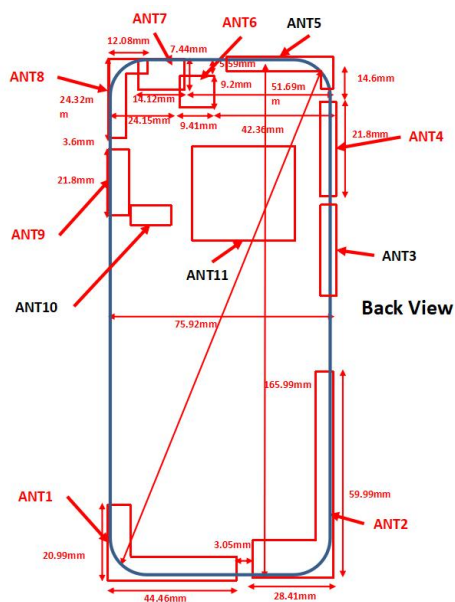
Product General Information:

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Type and shape of antenna             | PIFA Antenna                                                            |
| Directional characteristics           | Omni-directional                                                        |
| Deflection Characteristics of Antenna | Linear                                                                  |
| Type of connection with transmitter   | antenna shrapnel                                                        |
| Manufacturer                          | SHENZHEN ZHONGTIANXUN COMMUNICATION TECHNOLOGY CO., LTD.                |
| Measuring Organization                | RayZone 2800 (SHENZHEN ZHONGTIANXUN COMMUNICATION TECHNOLOGY CO., LTD.) |

1. EUT Reference Setup



2. Antenna distribution



SKU1

ANT1:  
G1800/1900 W1/2 LTE1/3/39 NR n1/3 TRX

ANT2:  
GSM850/900 W5/8 LTE5/8/20/28 NR n5/28 TRX  
LTE B7/38/41 NR n7/38/41/77/78 DMIMO

ANT3:  
LTE1/3 NR n1/3 PMIMO  
NR n77/78 DRX

ANT4:  
LTE7/38/40/41 NR n7/38/40/41 DRX  
NR n77/78 PMIMO  
LTE B7/40 TRX(only CA/EN-DC enabled)

ANT5:  
GSM850/900/1800/1900 W1/2/5/8 LTE1/3/5/8/20/28/39  
NR n1/3/5/28 DRX  
LTE B7/38/40/41 NR n7/38/40/41 PMIMO

ANT6: WIFI5g

ANT7: GPS+WIFI2.4g

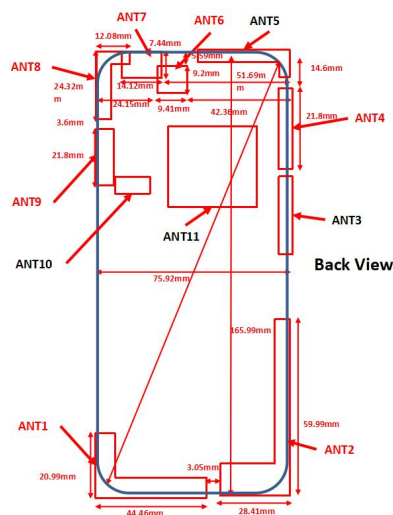
ANT8:  
LTE 7/38/40/41 NR n7/38/40/41/77/78 TRX

ANT9:  
LTE B1/3 NR n1/3 DMIMO  
LTE B1/3 NR n1/3 TRX(only CA/EN-DC enabled)

ANT10:  
LTE B40 NR n40 DMIMO

ANT11:NFC

SKU1:



SKU2

ANT1:  
G1800/1900 W1/2/4 LTE1/2/3/4/39/66 NR n1/2/3/66 TRX

ANT2:  
GSM850/900 W5/8 LTE5/8/12/13/17/20/28 NR n5/28 TRX  
LTE B7/38/41 NR n7/38/41/78 DMIMO

ANT3:  
LTE1/2/3/4/66 NR n1/2/3/66 PMIMO  
NR n78 DRX

ANT4:  
LTE7/38/40/41 NR n7/38/40/41 DRX  
NR n78 PMIMO  
LTE B7/40 TRX(only CA/EN-DC enabled)

ANT5:  
GSM850/900/1800/1900 W1/2/4/5/8 LTE1/2/3/4/5/8/12/13/17/20/28/39/66 NR  
n1/2/3/5/28/66 DRX  
LTE B7/38/40/41 NR n7/38/40/41 PMIMO

ANT6: WIFI5g

ANT7: GPS+WIFI2.4g

ANT8:  
LTE 7/38/40/41 NR n7/38/40/41/78 TRX

ANT9:  
LTE B1/2/3/4/66 NR n1/2/3/66 DMIMO  
LTE B1/2/3/66 NR n1/2/3/66 TRX(only CA/EN-DC enabled)

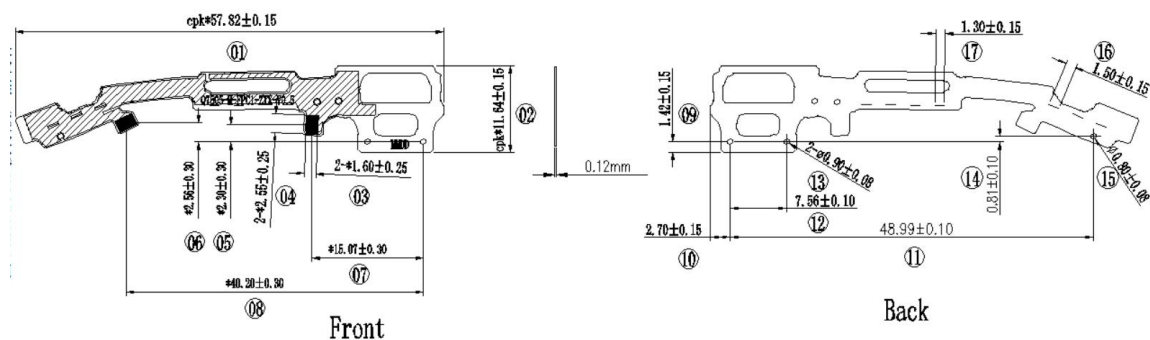
ANT10:  
LTE B40 NR n40 DMIMO

ANT11:NFC

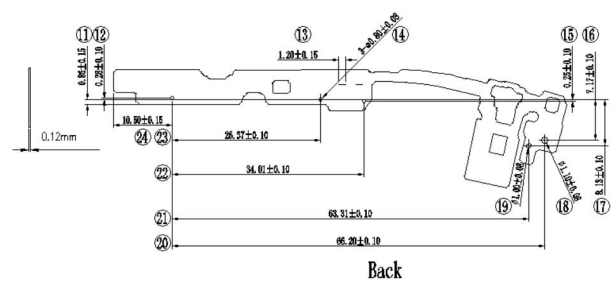
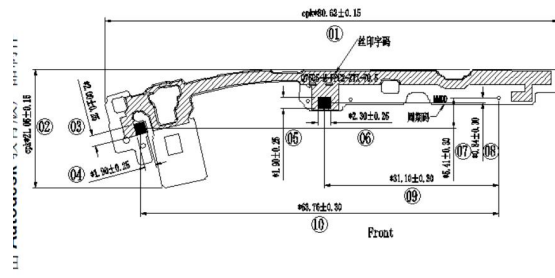
SKU2:

### 3. Antenna Pattern

ANT0



ANT1



#### 4. Antenna Gain:

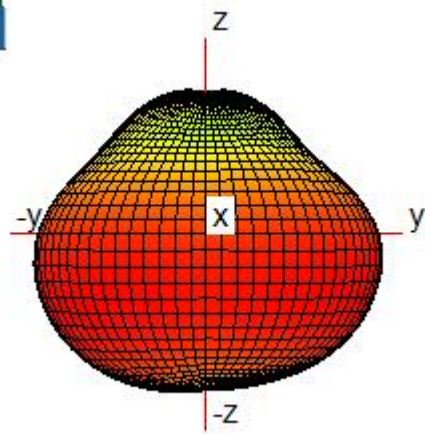
main  
frequency

| GSM/DCS/PCS/GPRS/EGPRS  |           |              |
|-------------------------|-----------|--------------|
| Fre. Band               |           | Antenna Gain |
| GSM                     | 850       | -5.47        |
| P-GSM                   | 900       | -4.56        |
| E-GSM                   | 900       | -4.56        |
| DCS                     | 1800      | -1.43        |
| PCS                     | 1900      | -0.76        |
|                         |           |              |
| WCDMA/HSDPA/HSPUA/HSPA+ |           |              |
| Band 1                  | 1920-1980 | -1.17        |
| Band 2                  | 1850-1910 | -0.76        |
| Band 4 (SKU2 only)      | 1710-1755 | -1.43        |
| Band 5                  | 824-849   | -5.47        |
| Band 8                  | 880-915   | -4.56        |

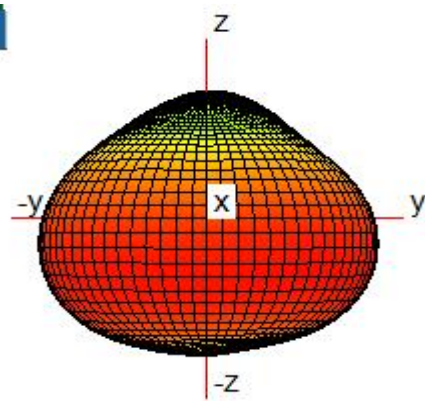
| LTE                              |                 |              |                |
|----------------------------------|-----------------|--------------|----------------|
| Fre. Band                        |                 | Antenna Gain |                |
|                                  |                 | Single band  | Only for EN-DC |
| FDD Band 1                       | 1920-1980       | -1.17        | -7.2           |
| FDD Band 2 (SKU2 only)           | 1850-1910       | -0.76        | -4.7           |
| FDD Band 3                       | 1701-1785       | -1.43        | -4.9           |
| FDD Band 4 (SKU2 only)           | 1710-1785       | -1.43        |                |
| FDD Band 5                       | 824-849         | -5.47        |                |
| FDD Band 8                       | 880-915         | -4.56        |                |
| FDD Band 12 (SKU2 only)          | 698-716         | -6.11        |                |
| FDD Band 13 (SKU2 only)          | 777-787         | -5.34        |                |
| FDD Band 17 (SKU2 only)          | 704-716         | -6.11        |                |
| FDD Band 20                      | 832-862         | -5.3         |                |
| FDD Band 28                      | 703-748         | -6.65        |                |
| FDD Band 66 (SKU2 only)          | 1710-1780       | -1.43        | -7.1           |
| TDD Band 39                      | 1880-1920       | -1.46        |                |
|                                  |                 |              |                |
| 5G NR FR1(sub-6G) Operation Band |                 |              |                |
| Antenna Gain(dBi)                |                 |              |                |
| LB-ANT2 / MB-ANT1 / HB-ANT8      |                 |              |                |
| MB-ANT9                          |                 |              |                |
| Fre. Band                        |                 | Antenna Gain |                |
|                                  |                 | Single band  | Only for EN-DC |
| n1(2100)                         | 1920 ~ 1980 MHz | -1.17        | -7.2           |
| n2(1900 PCS) (SKU2 only)         | 1850 ~ 1910 MHz | -0.76        | -4.7           |
| n3(1800)                         | 1710 ~ 1785 MHz | -1.43        | -4.9           |
| n5(850)                          | 824 ~ 849 MHz   | -5.47        |                |
| n8(900) (SKU1 only)              | 880 ~ 915 MHz   | -4.56        |                |
| n28(700 APT)                     | 703 ~ 748 MHz   | -6.65        |                |
| n66(AWS-3) (SKU2 only)           | 1710 ~ 1780 MHz | -1.43        | -7.1           |

5. 3D map

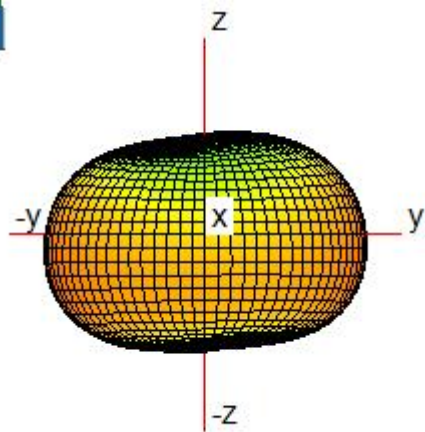
820MHZ



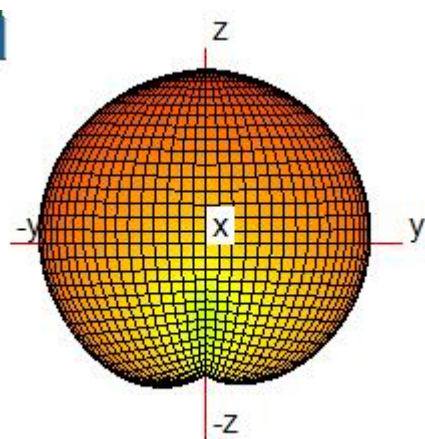
920MHZ



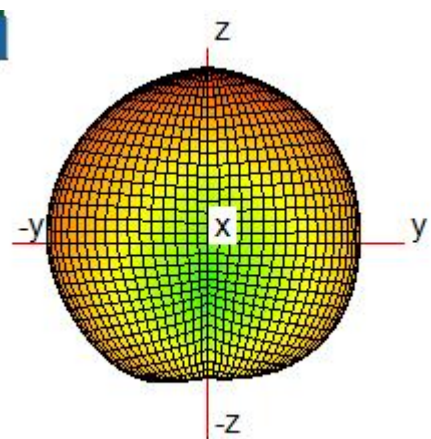
730MHZ



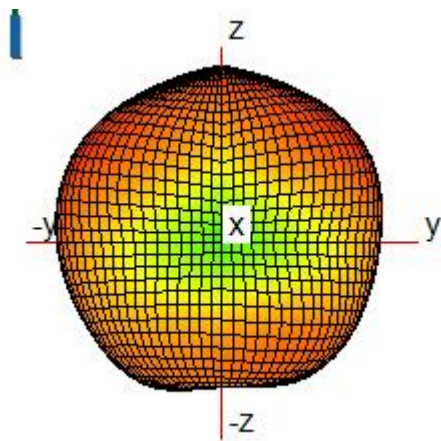
1710MHZ



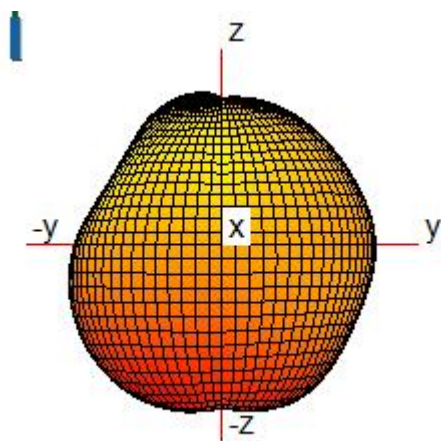
1880MHZ



2170MHZ



2500MHZ



2690MHZ

