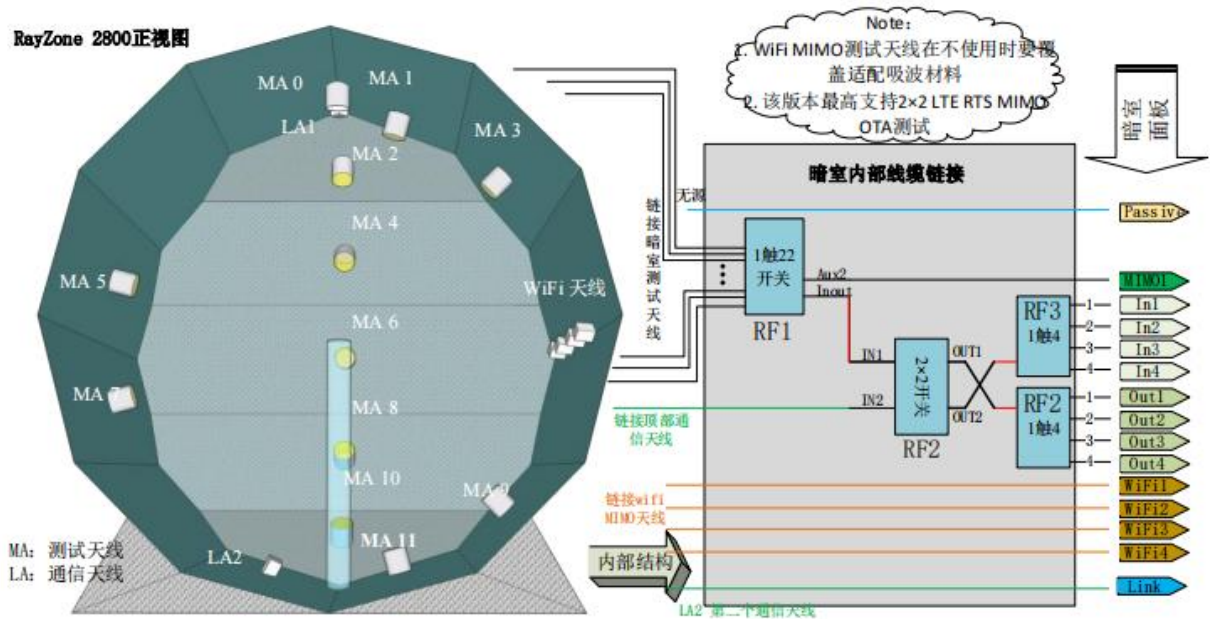


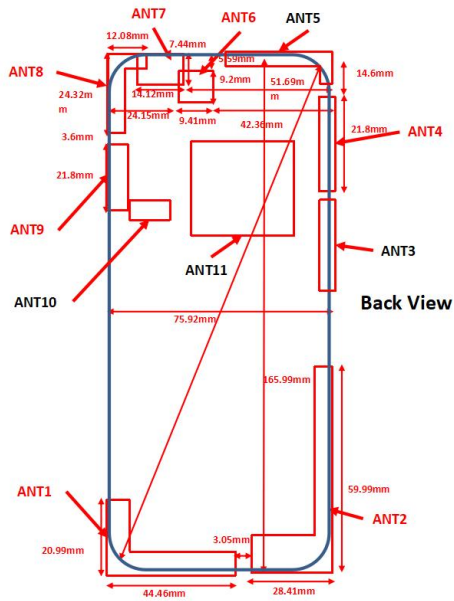
Product General Information:

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

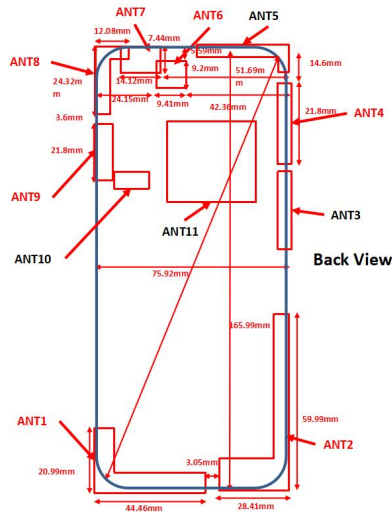


2. Antenna distribution



- 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:

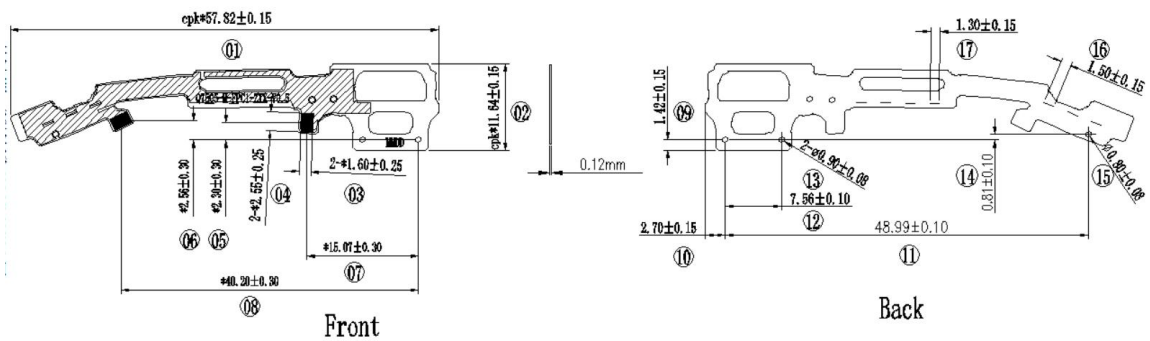


- SKU2
- ANT1: G1800/1900 W1/2/4 LTE1/2/3/4/39/66 NR n1/2/3/66 TRX
 - ANT2: GSM850/900 W5/8 LTE5/8/12/13/17/20/28 NR n5/28 TRX
LTE B7/38/41 NR n7/38/41/78 DMIMO
 - ANT3: LTE1/2/3/4/66 NR n1/2/3/66 PMIMO
NR n78 DRX
 - ANT4: LTE7/38/40/41 NR n7/38/40/41 DRX
NR n78 PMIMO
LTE B7/40 TRX(only CA/EN-DC enabled)
 - 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

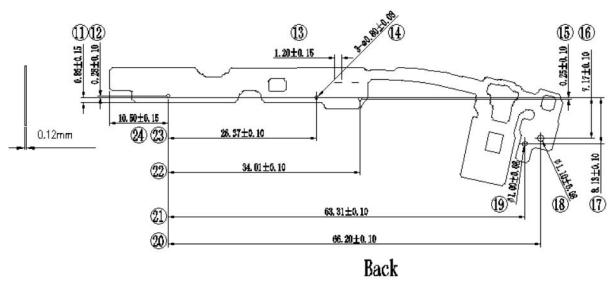
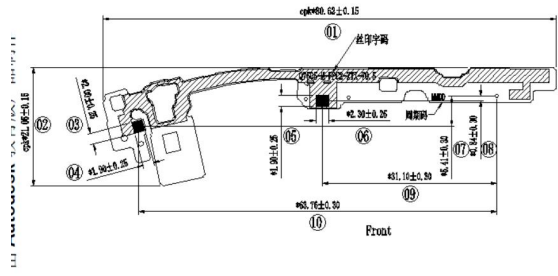
SKU2:

3. Antenna Pattern

ANT0



ANT1



4. Antenna Gain:

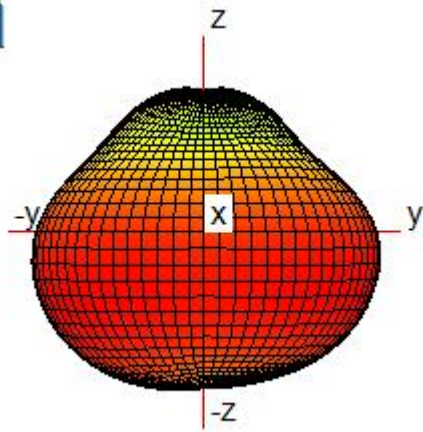
main
frequency

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

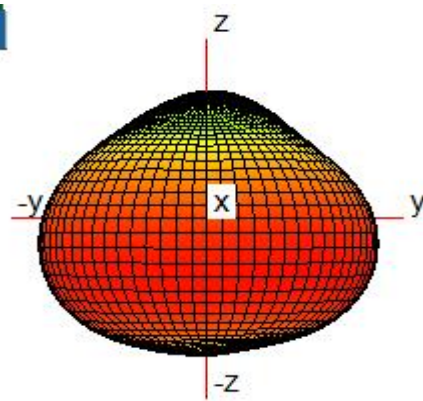
LTE			
Fre. Band		Antenna Gain	
		Single band	Only for EN-DC
FDD Band 1	1920-1980	-1.17	-7.2
FDD Band 2 (SKU2 only)	1850-1910	-0.76	-4.7
FDD Band 3	1701-1785	-1.43	-4.9
FDD Band 4 (SKU2 only)	1710-1785	-1.43	
FDD Band 5	824-849	-5.47	
FDD Band 8	880-915	-4.56	
FDD Band 12 (SKU2 only)	698-716	-6.11	
FDD 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

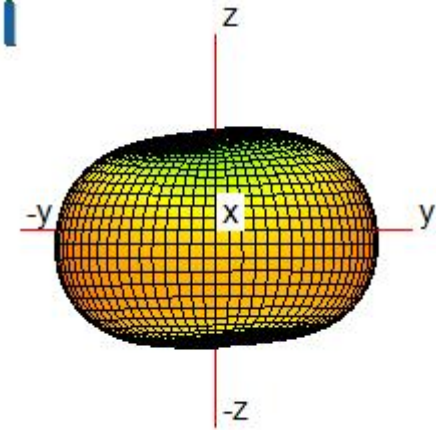
820MHZ



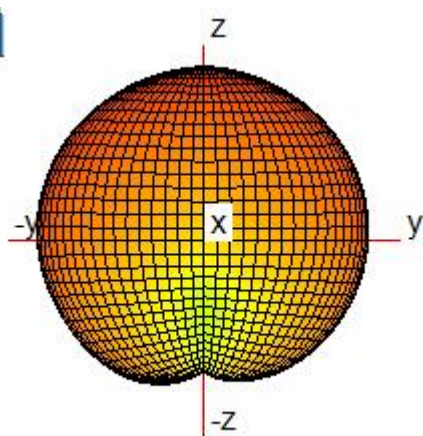
920MHZ



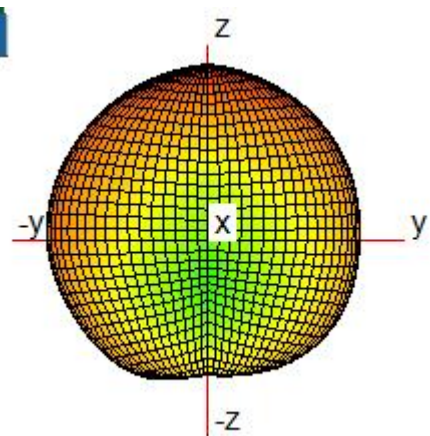
730MHZ



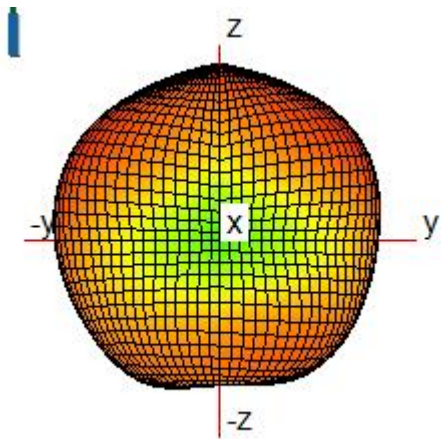
1710MHZ



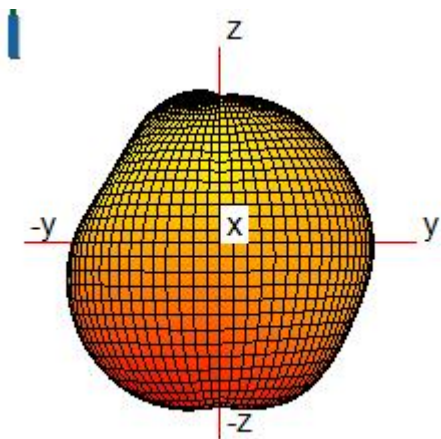
1880MHZ



2170MHZ



2500MHZ



2690MHZ

