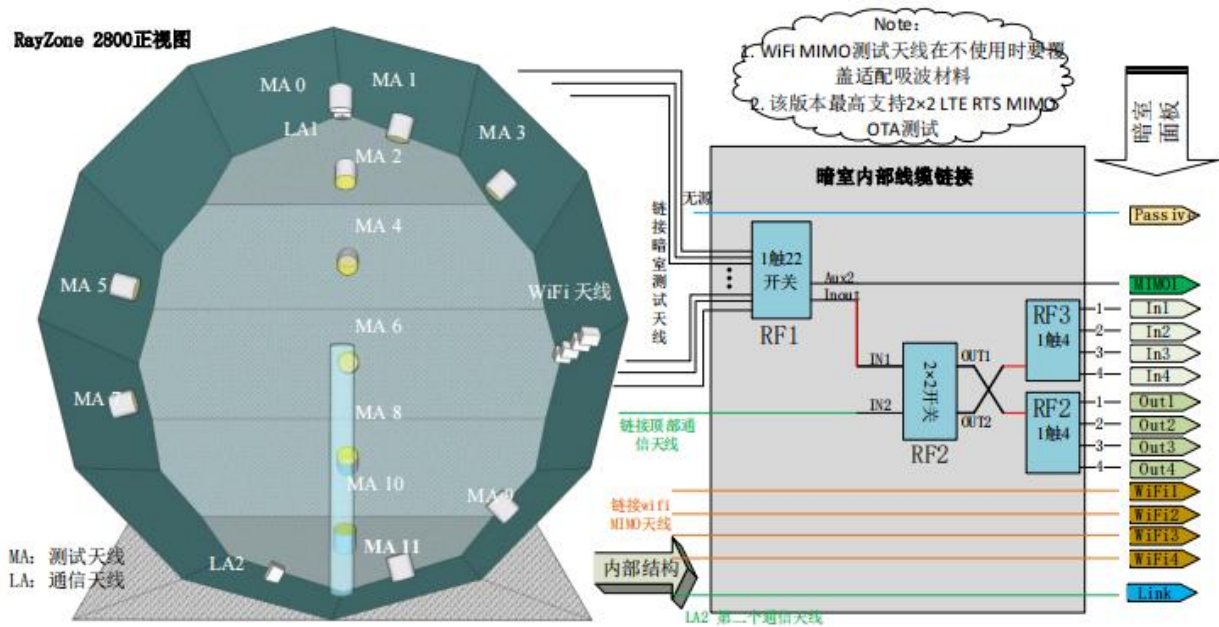


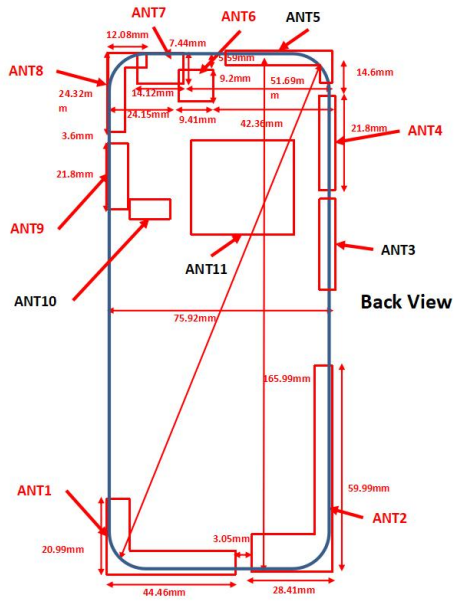
Product General Information:

Type and shape of antenna	PIFA Antenna
Directional characteristics	Omni-directional
Deflection Characteristics of Antenna	Linear
Type of connection with transmitter	antenna shrapnel
Manufacturer	Zhejiang Haitong communications electronic Limited by Share 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

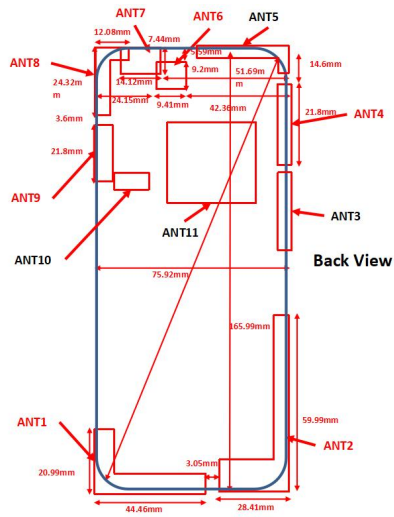
ANT8:
LTE 7/38/40/41 NR n7/38/40/41/77/78 TRX

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)

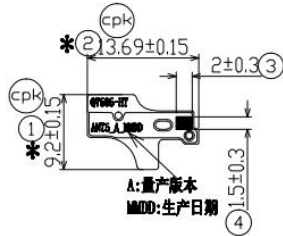
ANT10:
LTE B40 NR n40 DMIMO

ANT11:NFC

SKU2:

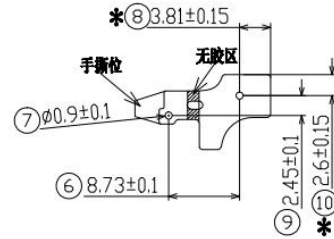
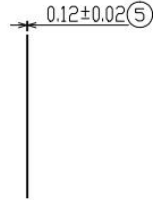
3. Antenna Pattern

ANT6



front

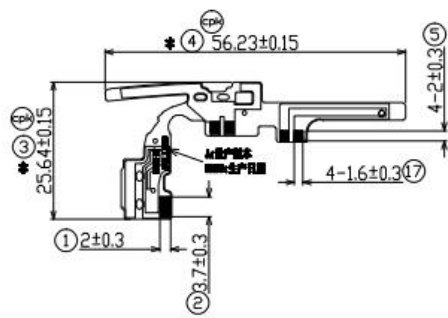
Pattern-Surface



back

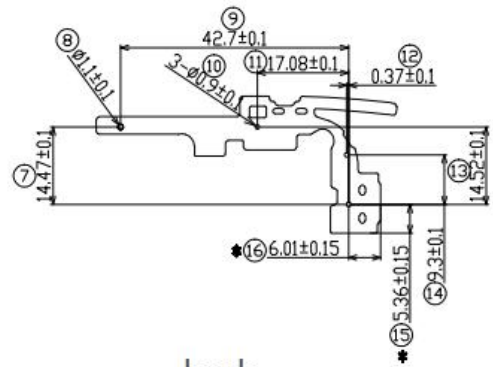
Adhesive-Surface

ANT7&ANT8



front

Pattern-Surface



back

Adhesive-Surface

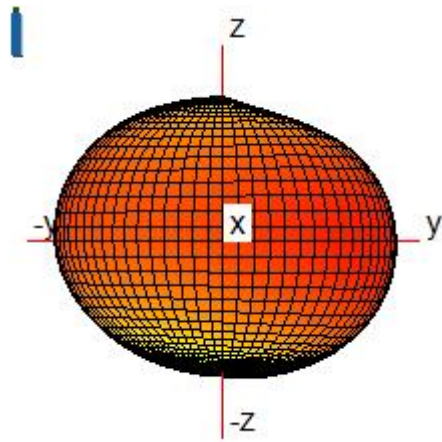
Antenna Gain:
main
frequency

LTE			
Fre. Band		Antenna Gain	
		Single band	Only for EN-DC
FDD Band 7	2500-2570	-0.87	-5.1
TDD Band 38	2570-2620	-0.84	
TDD Band 40	2300-2400	-2.81	-3.7
TDD Band 41	2496-2690 如有缩频率, 请修改	-0.89	
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
n7(2600)	2500 ~ 2570 MHz	-0.87	
n38(TD 2600)	2570 ~ 2620 MHz	-0.84	
n40(TD2300)	2300 ~ 2400 MHz	-2.81	
n41(TD 2500)	2496 ~ 2690 MHz	-0.89	
n77(TD 3700) (SKU1 only)	3300 ~ 4200 MHz	-3.11	
n78(TD 3500)	3300 ~ 3800 MHz	-1.67	

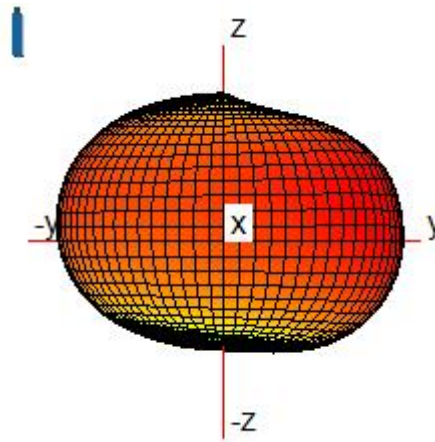
WCN		
802.11b	Antenna Gain (dBi)	-2.1
802.11g		-2.1
802.11n (20M)		-2.1
802.11n (40M)		-2.1
802.11a		-0.9
802.11n (20M)		-0.9
802.11n (40M)		-0.9
802.11ac (20M)		-0.9
802.11ac (40M)		-0.9
802.11ac (80M)		-0.9
BT		
BR (GFSK)	Antenna Gain (dBi)	-2.1
EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)		
BLE		

4. 3D map

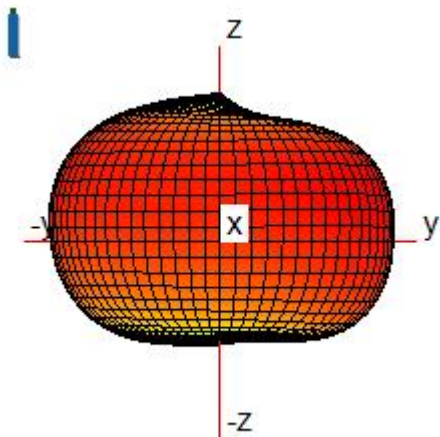
1575MHz



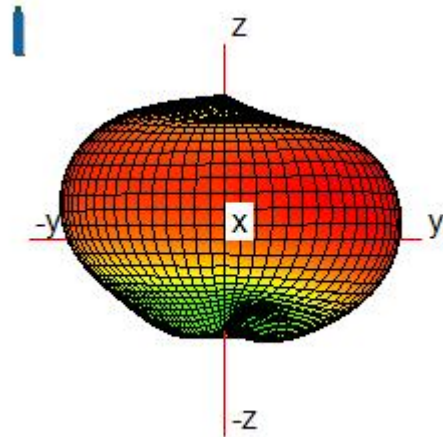
2400MHz



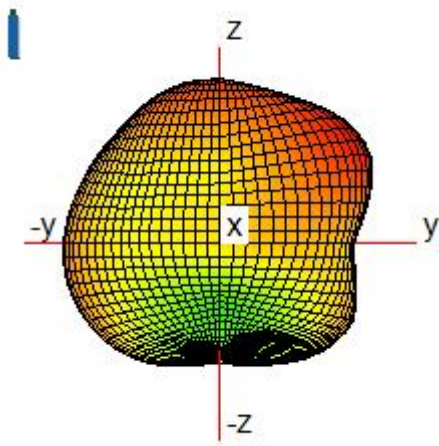
2450MHz



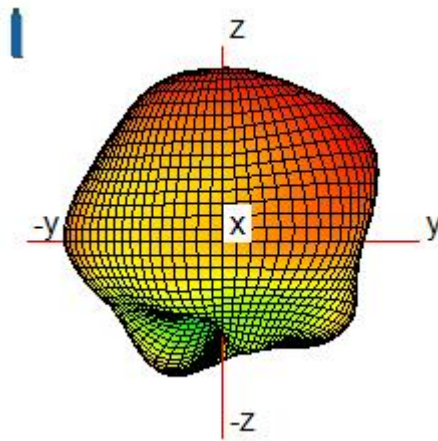
2500MHz



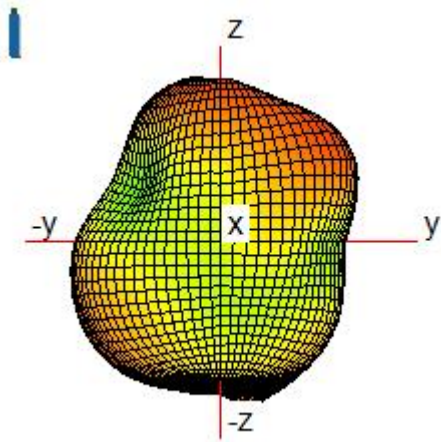
3300MHz



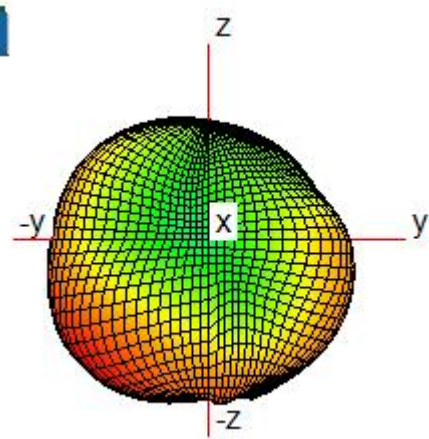
3500MHz



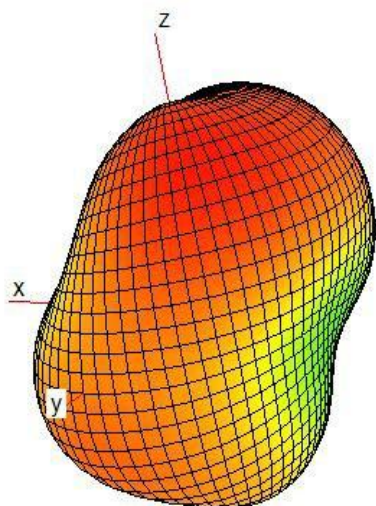
3800MHz



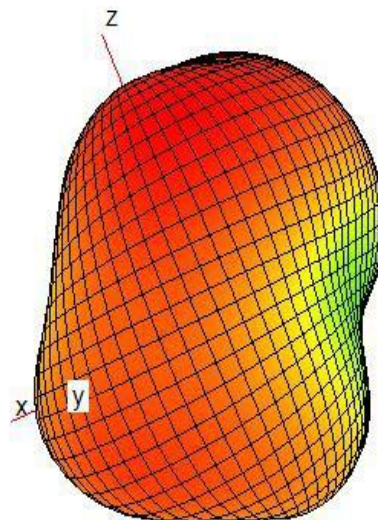
4200MHz



5160MH



5300MHz



5550MHz

