Antenna Reports

Main Antenna vendor: Motorola
Test lab: Motorola internal lab (by GTS RayZone2800)
Antenna model name: Midframe
Issue date: 2023/05/06

Documented by: 聂敬

Signature： ZhengMaosheng

Antenna Summary Table

Check items	**Information**
Provided by lab	Motorola internal lab (GTS)
Manufacturer/ Brand name	Motorola
Test software	MaxSign Libra
Manufacturer address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Test environment	Motorola Xiamen RD team Lab with GTS2800

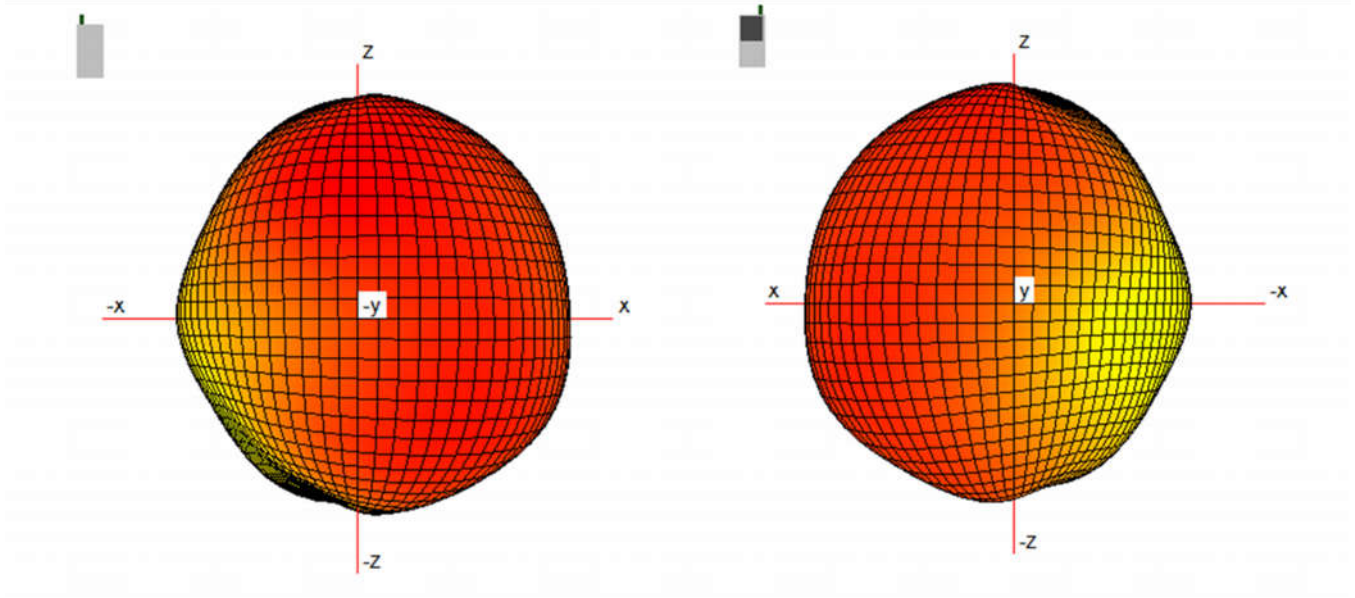
	chamber
Test software	MaxSign Libra
List of calibrated test equipment	GTS2800 with calibrated date: On May 24th,2023
Antenna detail info.	ANT3: GPS L1+WiFi2.4G PIFA type antenna. ANT5: WiFi 2.4G, 1.17645GHz), PIFA type ANT7: / WiFi 5G / 6E antenna (5.15~7.125GHz), PIFA type ANT8： WIFI 5G / 6E antenna 5.15~7.125GHz) , Loop type NFC Antenna: Differential port to excite FPC coil + Ferrite sheet with dimension 25.15mm *28.07mm
Antenna gain test data	Included antenna frequency, gain pattern

Note: Antenna gain was measured in the anechoic chamber, 3D scan was exercised, and the highest numbers are reported in this document.

Antenna Test data:

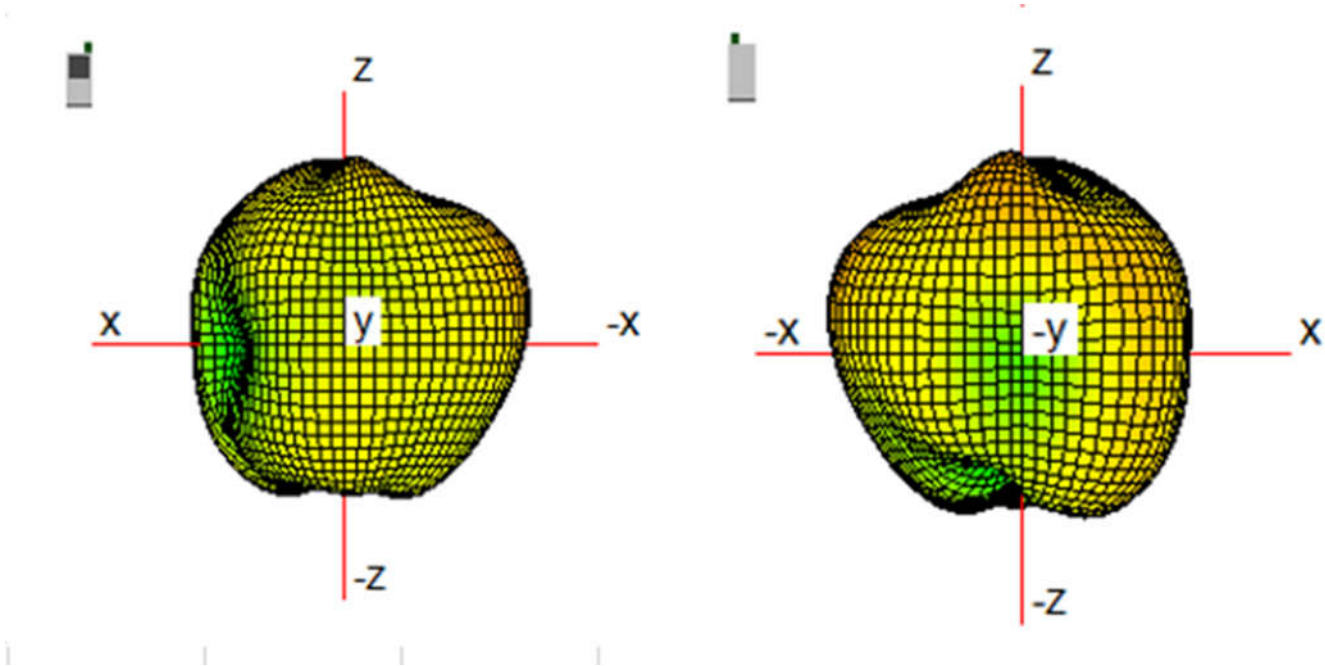
Antenna Type /Gain 2.4G	**<2400MHz~2483.5MHz> <Ant3>: PIFA Antenna with gain: -6 dBi <Ant5>: PIFA Antenna with gain: -6 dBi**
Antenna Type /Gain 5G	**<5150MHz~5250MHz> <Ant7>: PIFA Antenna with gain:-7 dBi <Ant8>: Loop Antenna with gain: -6dBi <5250MHz~5350MHz> <Ant7>: PIFA Antenna with gain: -6dBi <Ant8>: Loop Antenna with gain: -6dBi <5470MHz~5725MHz> <Ant7>: PIFA Antenna with gain:-7dBi <Ant8>: Loop Antenna with gain:-4dBi <5725MHz~5850MHz> <Ant7>: PIFA Antenna with gain: -8dBi <Ant8>: Loop Antenna with gain: -8dBi**
Antenna Type /Gain 6E	**<5925MHz~6425MHz> <Ant7>: PIFA Antenna with gain:-4.5 dBi <Ant8>: Loop Antenna with gain: -5 dBi <6425MHz~6525MHz> <Ant7>: PIFA Antenna with gain: -6 dBi <Ant8>: Loop Antenna with gain: -3 dBi <6525MHz~6875MHz> <Ant7>: PIFA Antenna with gain: -7 dBi <Ant8>: Loop Antenna with gain: -6 dBi <6875MHz~7125MHz> <Ant7>: PIFA Antenna with gain: -7 dBi <Ant8>: Loop Antenna with gain: -7 dBi**

ANT3 Gain Plot



WIFI 2.4G (2450 MHz)

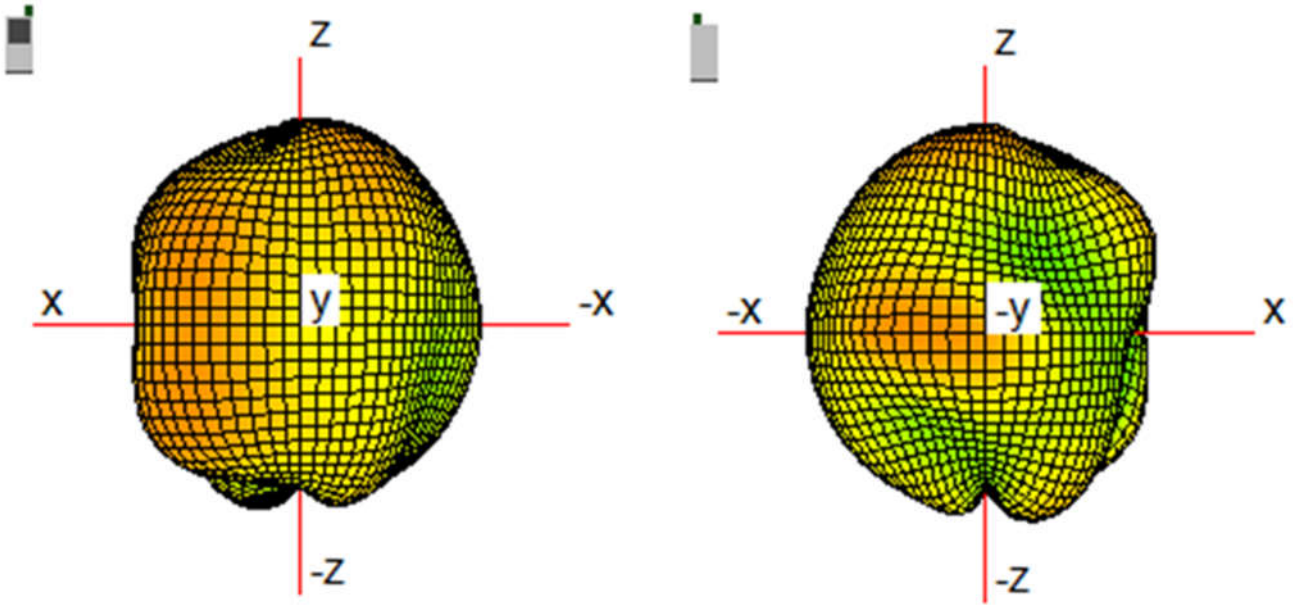
ANT5 Gain Plot



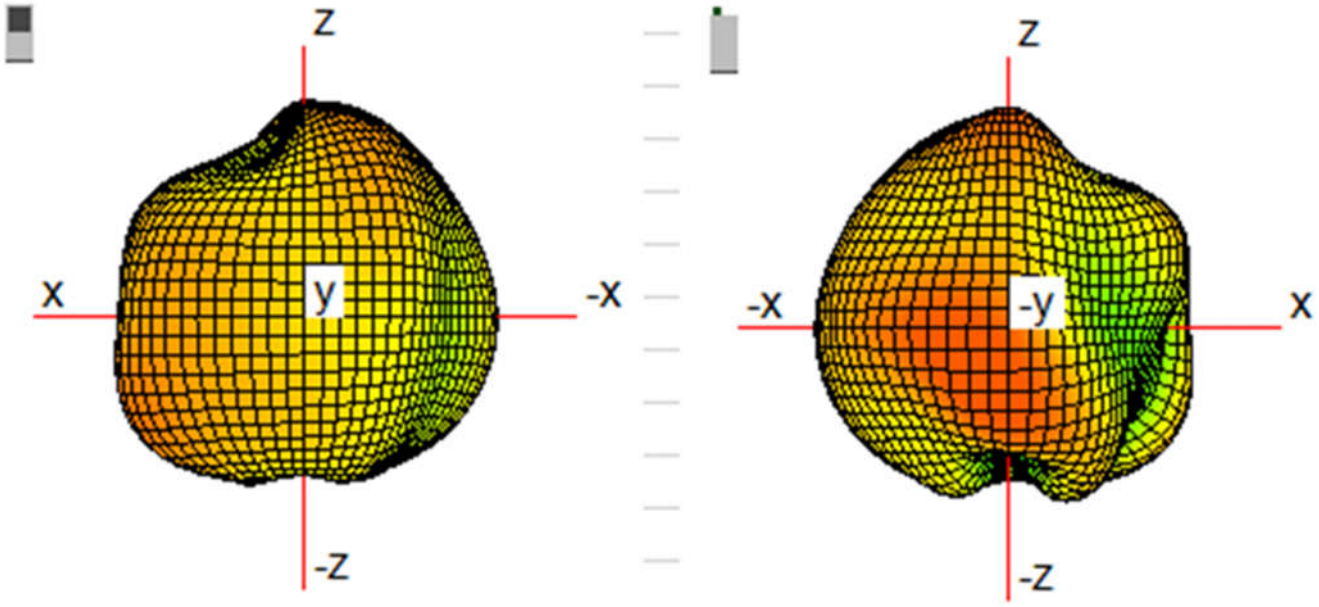
WIFI 2.4G (2450 MHz)

ANT7 Gain Plot

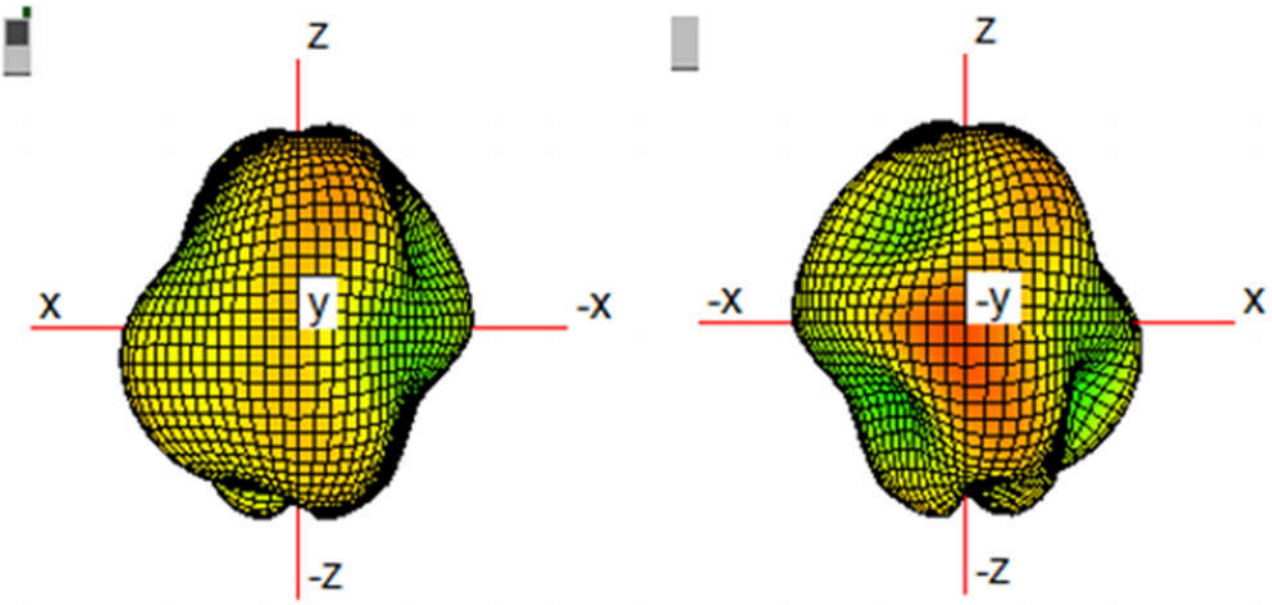
(Rear view– Front view)



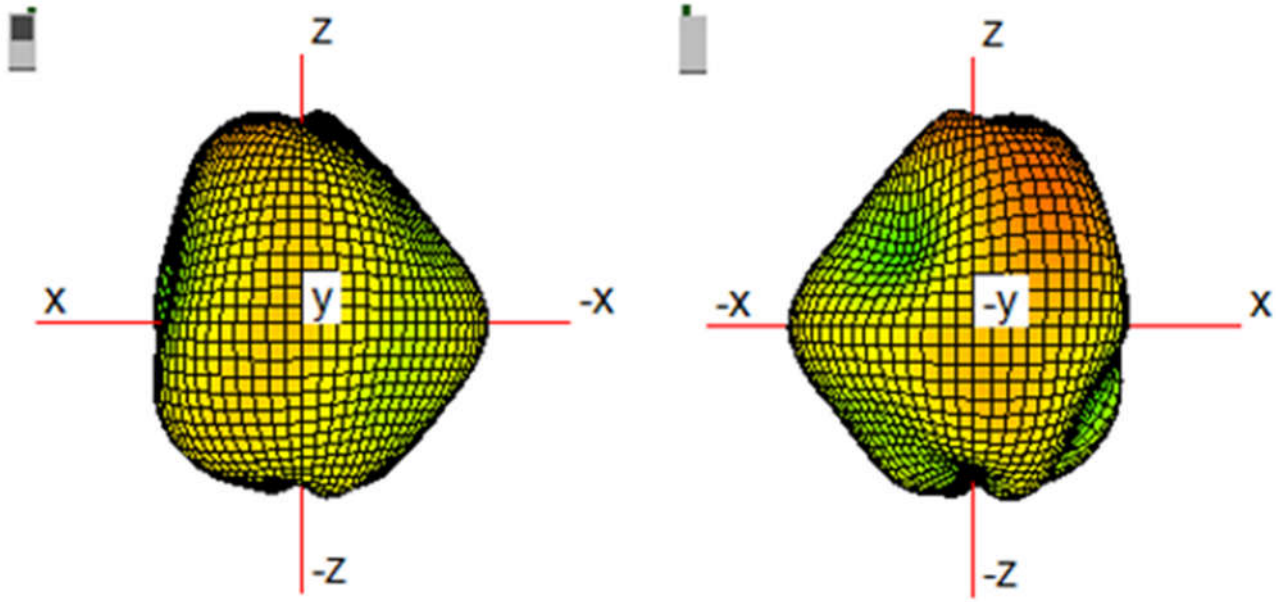
WIFI 5G (5200 MHz)



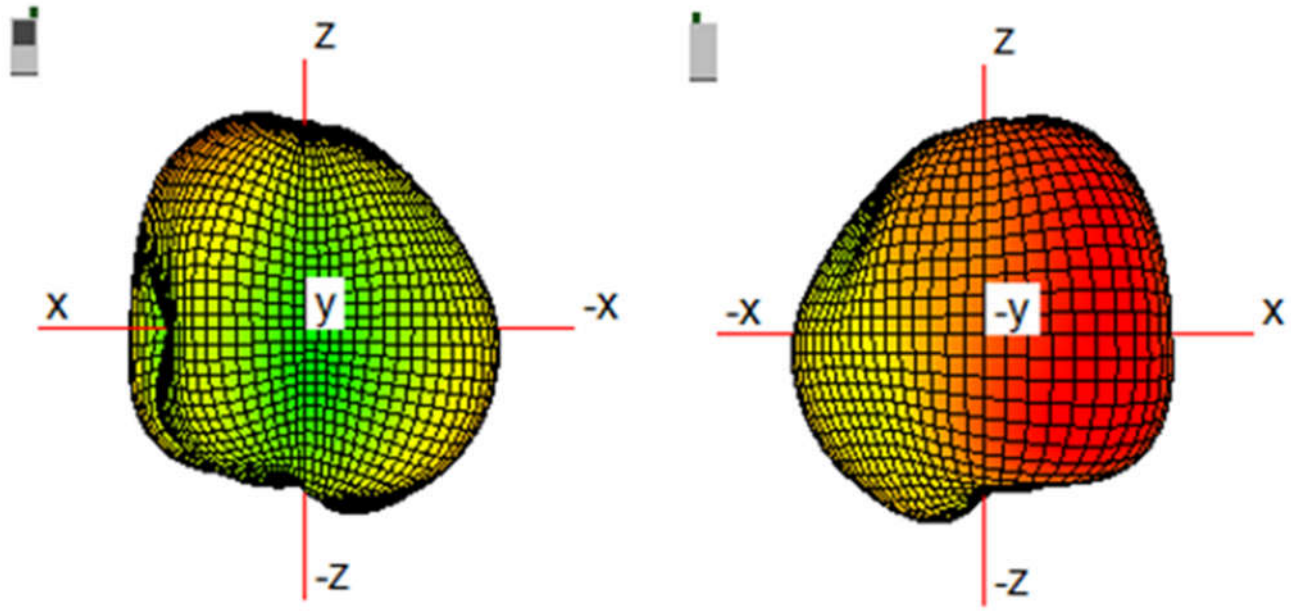
WIFI 5G (5300 MHz)



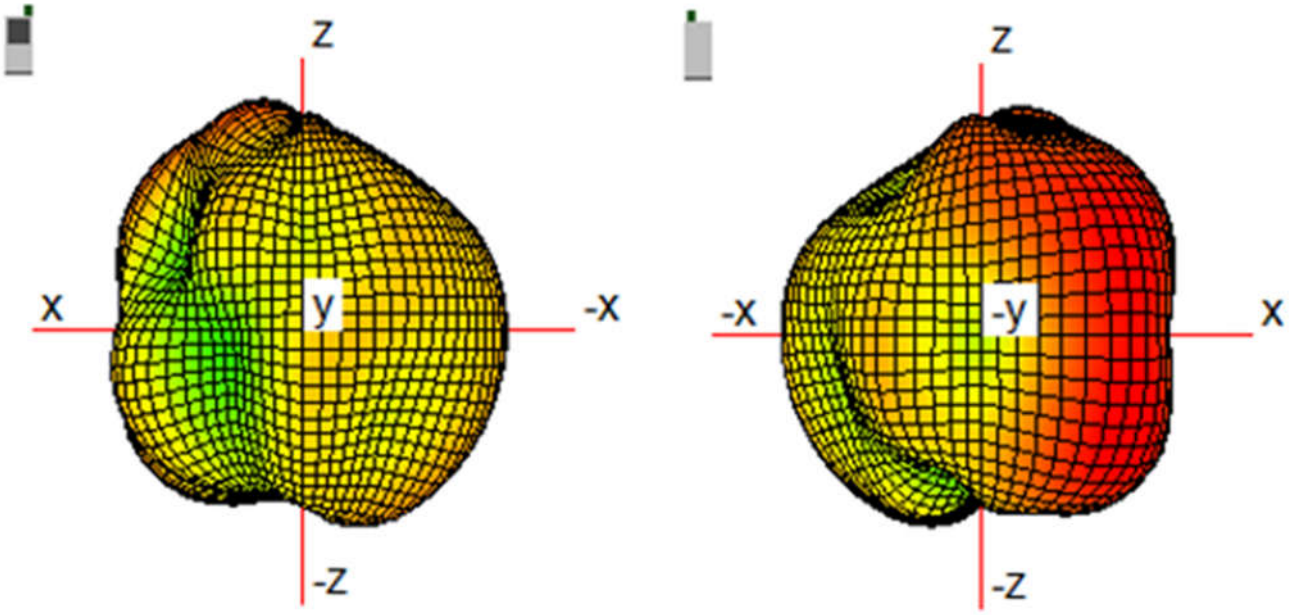
WIFI 5G (5500 MHz)



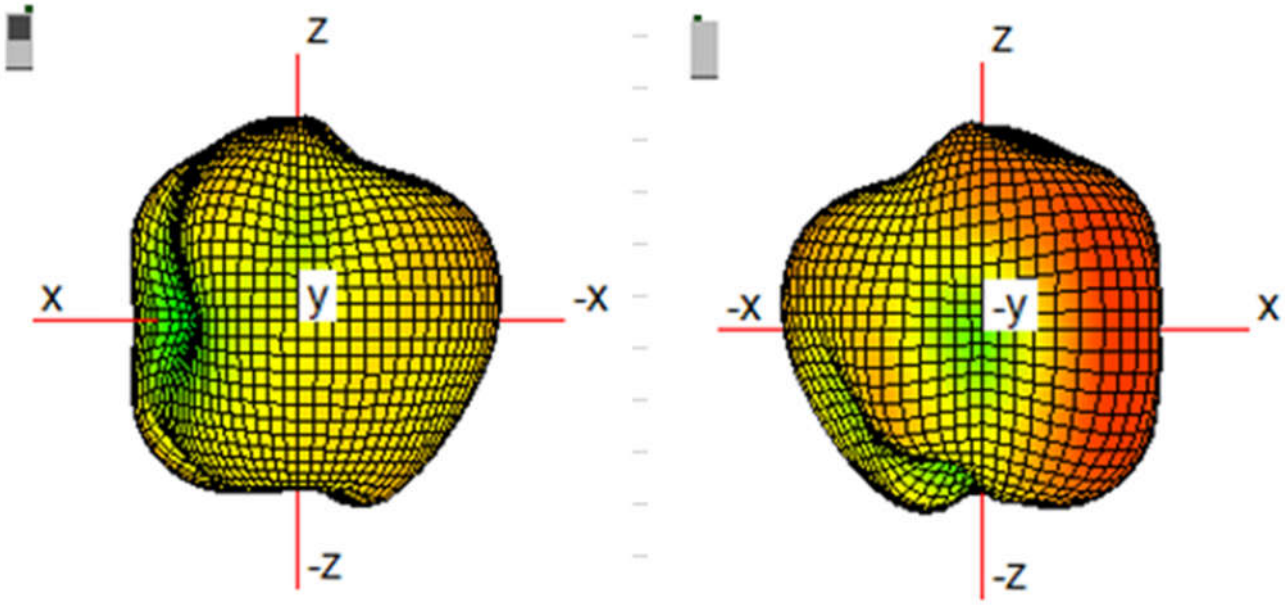
WIFI 5G (5800 MHz)



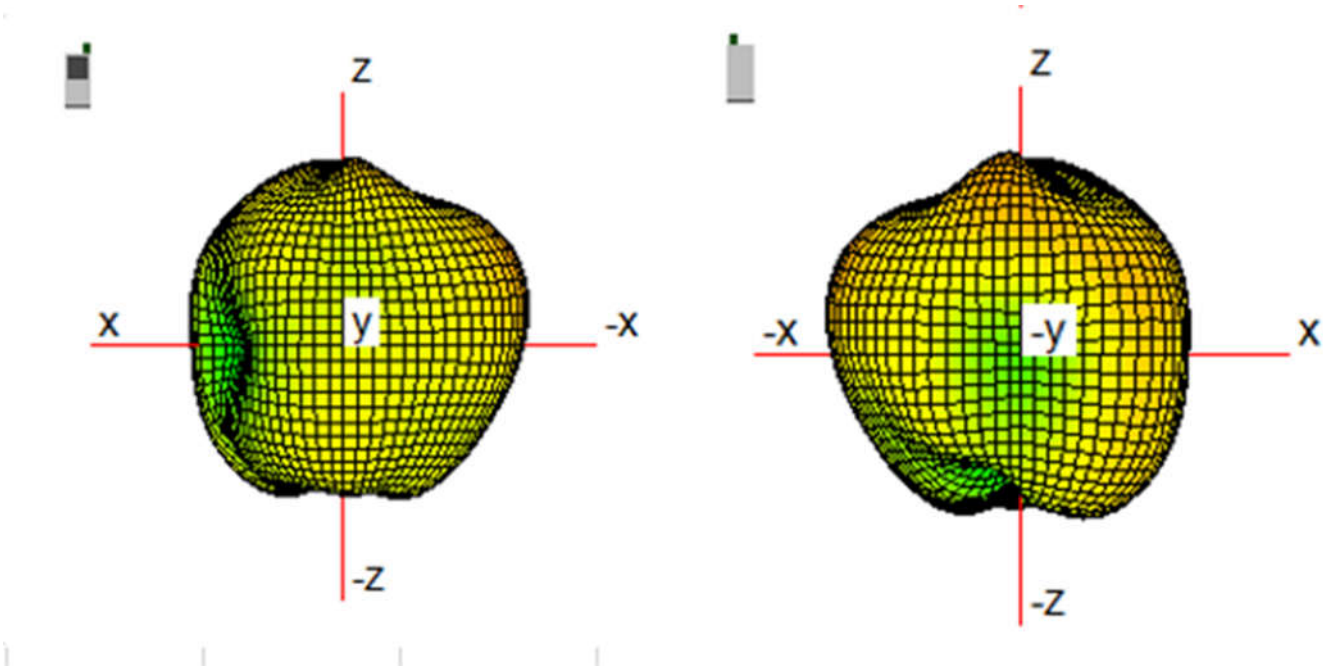
WIFI 6E (6100 MHz)



WIFI 6E (6500 MHz)



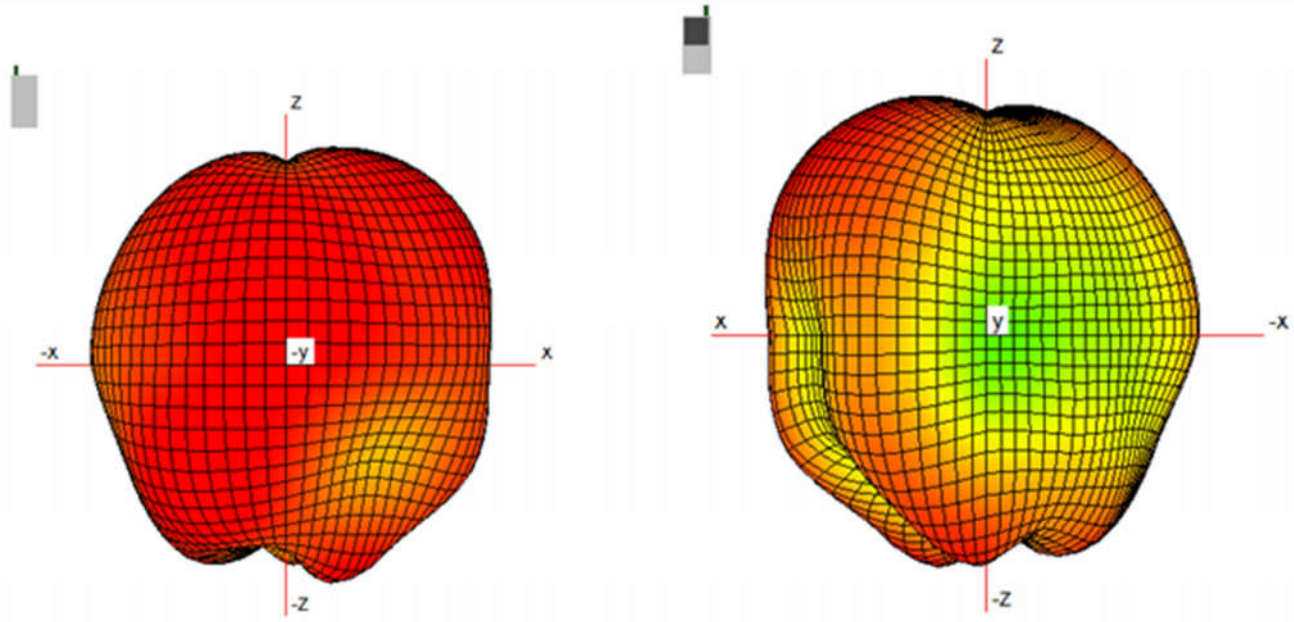
WIFI 6E (6700 MHz)



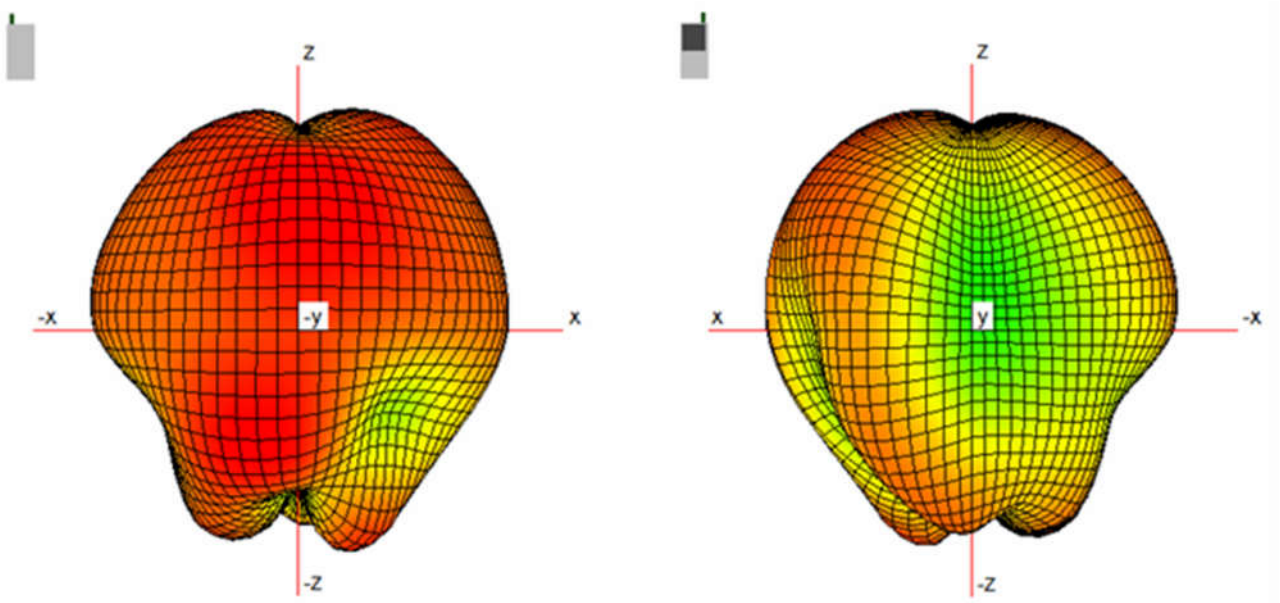
WIFI 6E (7000 MHz)

ANT8 Gain Plot

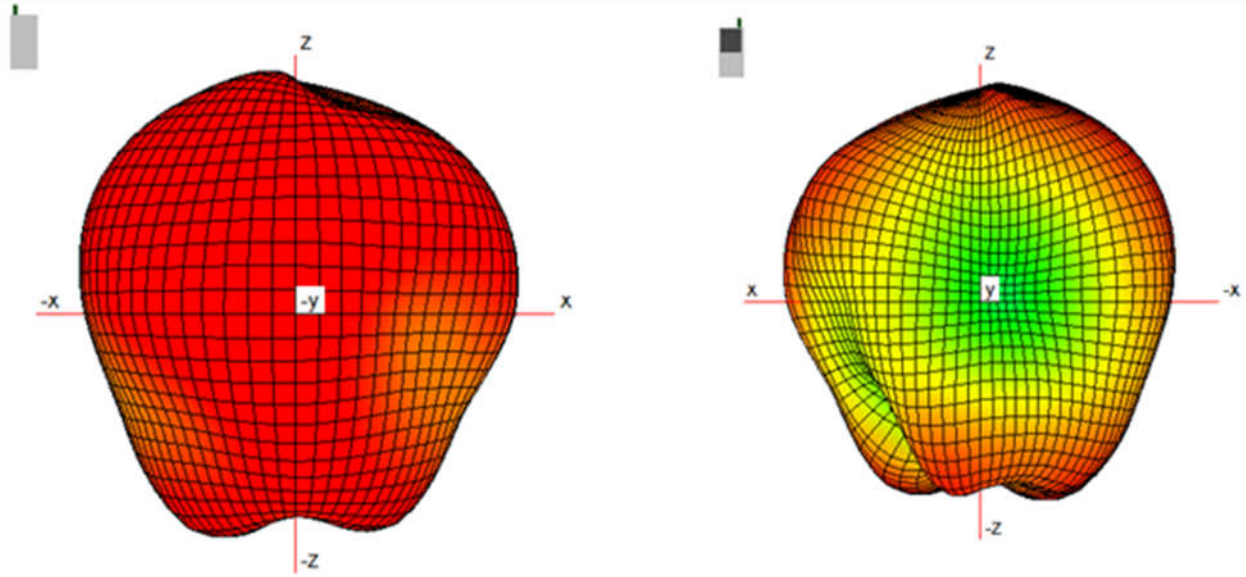
(Rear view– Front view)



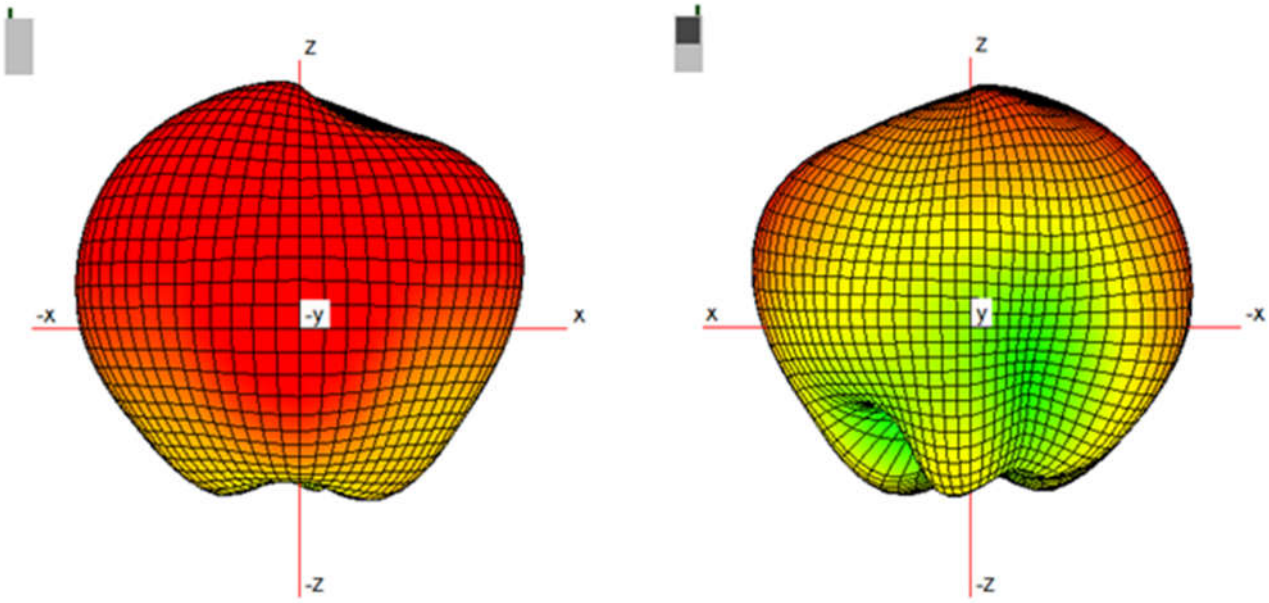
WIFI 5G (5200 MHz)



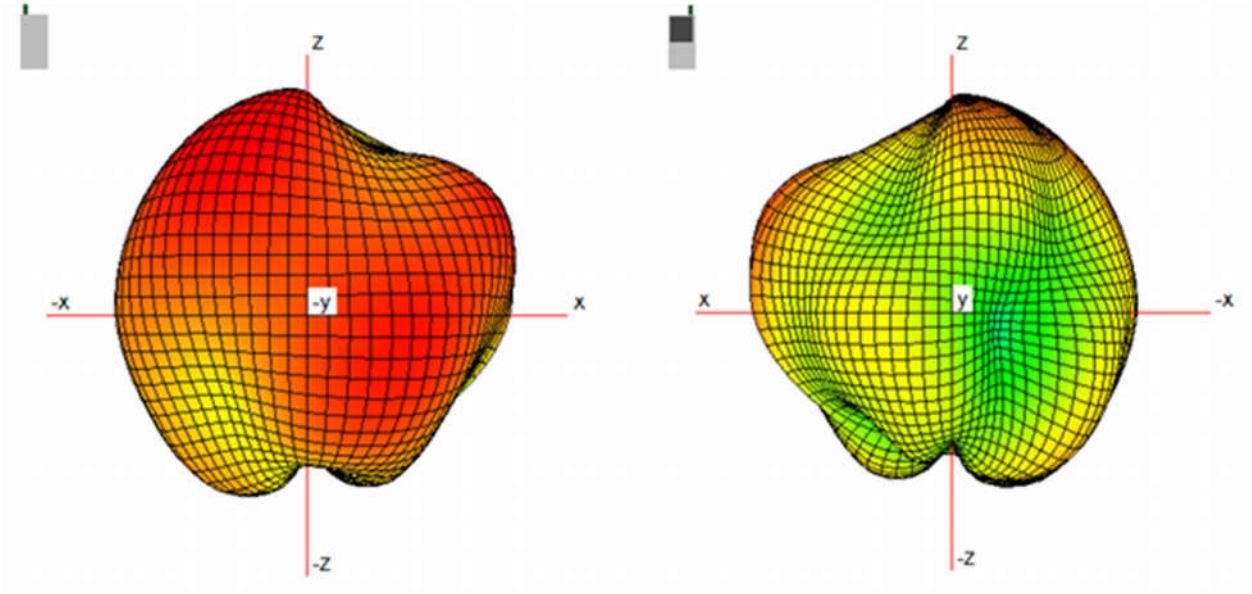
WIFI 5G (5300 MHz)



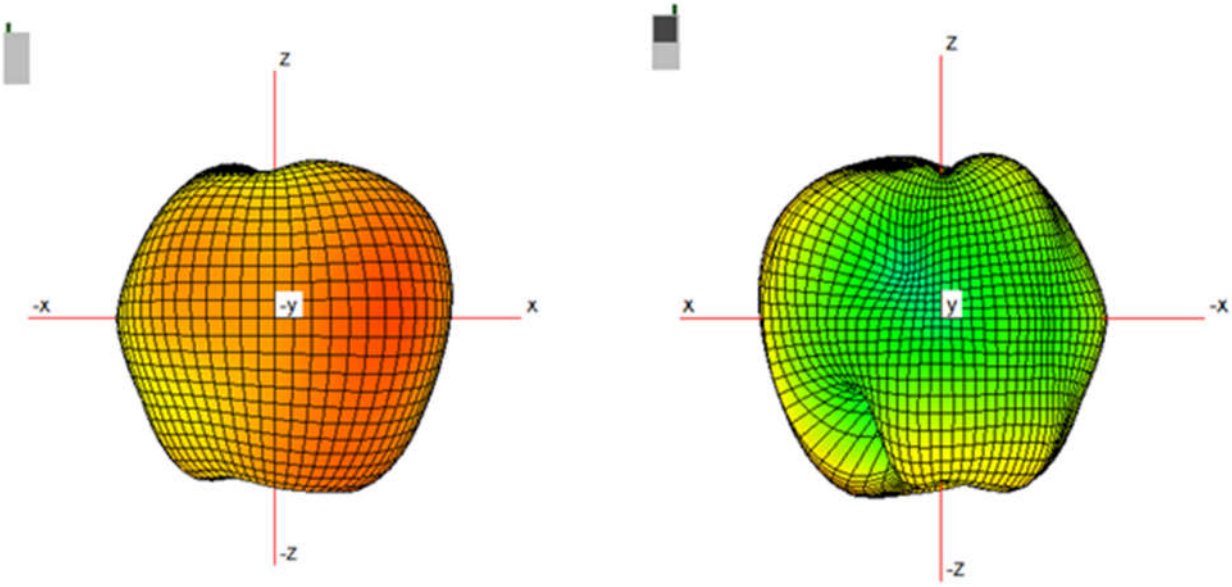
WIFI 5G (5500 MHz)



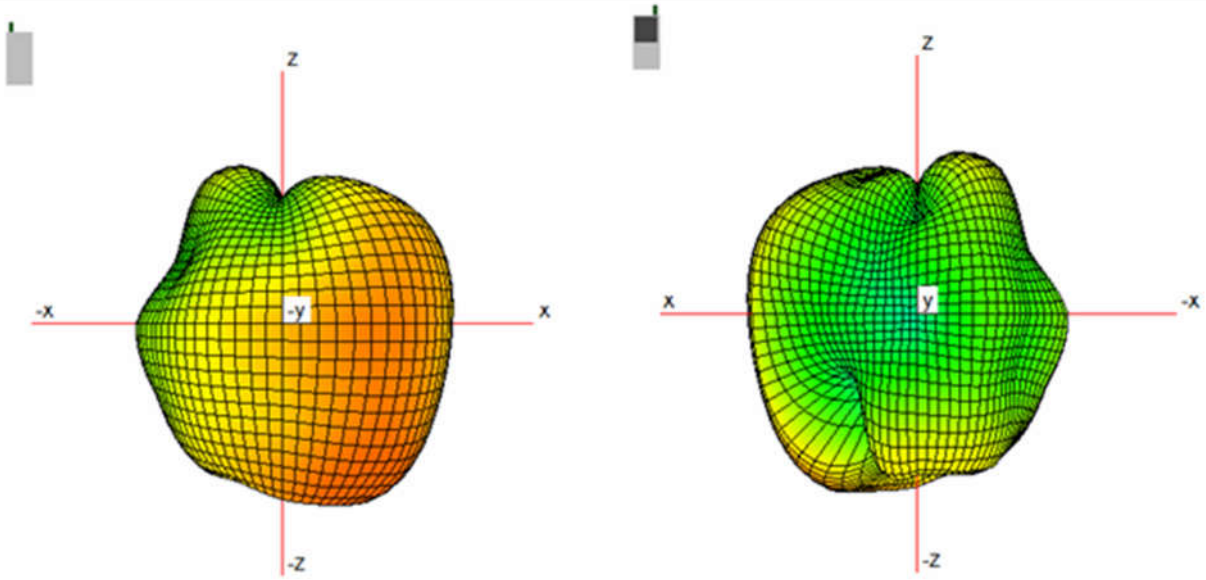
WIFI 5G (5800 MHz)



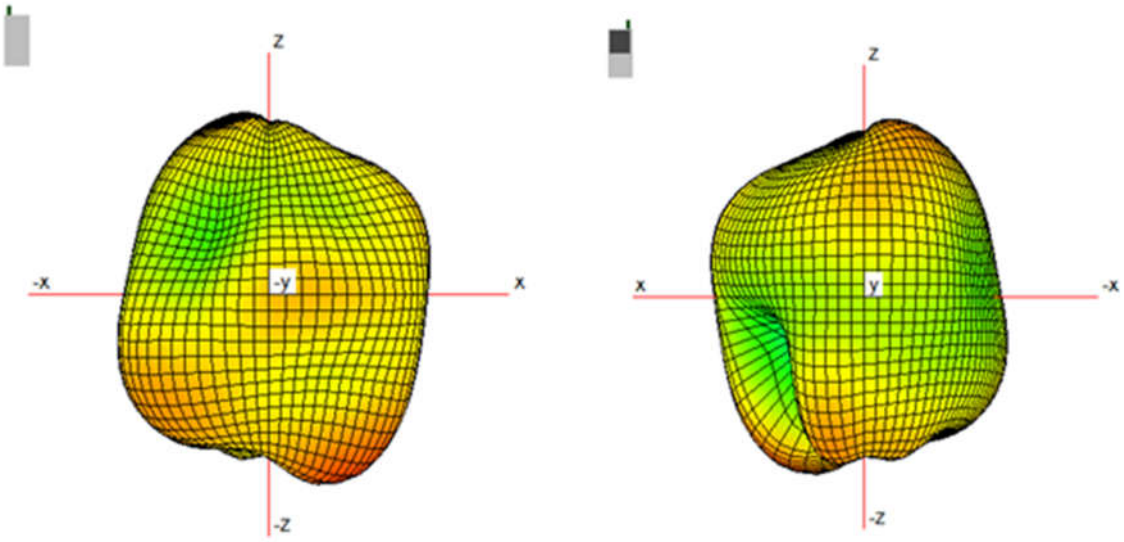
WIFI 6E (6100 MHz)



WIFI 6E (6500 MHz)



WIFI 6E (6700 MHz)



WIFI 6E (7000 MHz)

NFC Antenna information

NFC Antenna : Differential port to excite FPC coil + Ferrite sheet

Dimension : 25.15 mm * 28.07 mm

Antenna vendor: Haitong