
Antenna Reports

Company: Motorola Mobility LLC
Model name: M609
Issue date: 2024/01/10

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Antenna Summary Table

Check items	Information
Provided by lab	Motorola internal lab (GTS2800/GTS1800)
Manufacturer/ Brand name	Motorola
Test software	MaxSign Libra
Test environment	Motorola XM RD team Lab with GTS2800 Motorola XM RD team Lab with GTS1800 chamber
List of calibrated test equipment	GTS2800 with calibrated date: On December 4,2023,due data:December 4,2025 GTS1800 with calibrated date: On December 5,2023,due data:December 5,2025
Antenna detail info.	ANT3: WiFi2.4G antenna (2.4~2.5GHz), PIFA type antenna. ANT2: WiFi2.4G antenna (2.4~2.5GHz), BT(2.4~2.5GHz), LOOP type antenna. ANT5: WiFi 5G antenna(5.15~5.85GHz), WiFi 6G antenna(5.85~7.125GHz), PIFA type antenna. ANT7: WiFi 5G antenna(5.15~5.85GHz), WiFi 6G antenna(5.85~7.125GHz), LOOP type antenna. NFC Antenna: FPC + Ferrite sheet with FPC dimension 90.68 mm *1.8mm * 0.12mm, LOOP type antenna WPT: FPC + Ferrite sheet with FPC dimension 48 mm *48mm, LOOP type antenna
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.

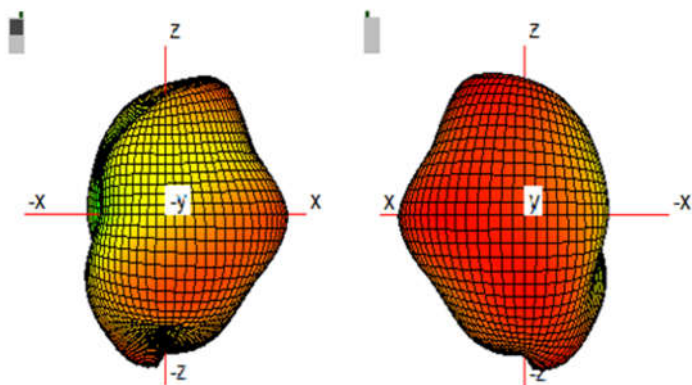
Antenna Test data:

Antenna Type /Gian 2.4G	<2400MHz~2483.5MHz> <Ant3>: PIFA Antenna with gain: -7.5 dBi <Ant2>: LOOP Antenna with gain: -6 dBi
Antenna Type /Gian 5G	<5150MHz~5250MHz> <Ant5>: PIFA Antenna with gain: -5.1 dBi <Ant7>: LOOP Antenna with gain: -5 dBi <5250MHz~5350MHz> <Ant5>: PIFA Antenna with gain: -5.3 dBi <Ant7>: LOOP Antenna with gain: -5.3 dBi <5470MHz~5725MHz> <Ant5>: PIFA Antenna with gain: -5 dBi <Ant7>: LOOP Antenna with gain: -5.6 dBi <5725MHz~5850MHz> <Ant5>: PIFA Antenna with gain: -8 dBi <Ant7>: LOOP Antenna with gain: -8.6 dBi
Antenna Type /Gian 6G	<5850MHz~5925MHz> <Ant5>: PIFA Antenna with gain: -5.3 dBi <Ant7>: LOOP Antenna with gain: -5.9 dBi <5925MHz~6425MHz> <Ant5>: PIFA Antenna with gain: -5.9 dBi <Ant7>: LOOP Antenna with gain: -6.2 dBi <6425MHz~6525MHz> <Ant5>: PIFA Antenna with gain: -5.4 dBi <Ant7>: LOOP Antenna with gain: -6 dBi <6525MHz~6875MHz> <Ant5>: PIFA Antenna with gain: -5.4 dBi <Ant7>: LOOP Antenna with gain: -6 dBi <6875MHz~7125MHz> <Ant5>: PIFA Antenna with gain: -5.1 dBi <Ant7>: LOOP Antenna with gain: -6.3 dBi

(Rear view– Front view)

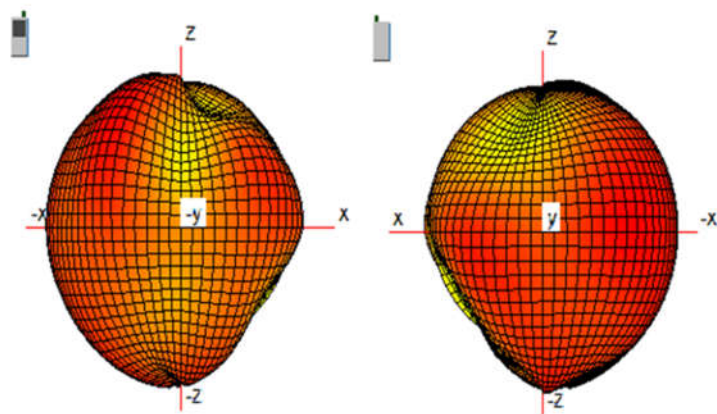
ANT3- WiFi 2.4G CH0

2450MHz

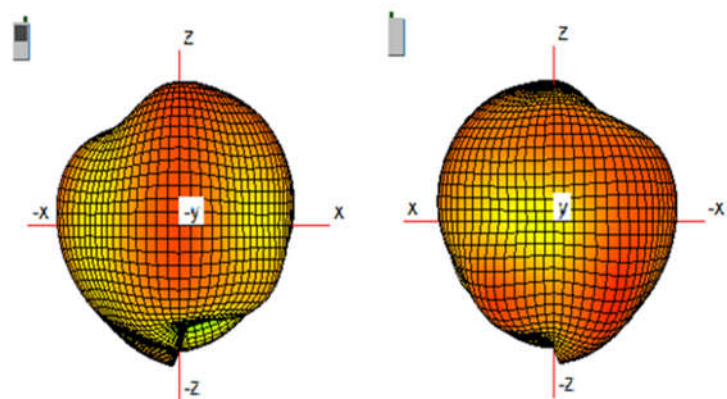


ANT5-WIFI 5G CH0

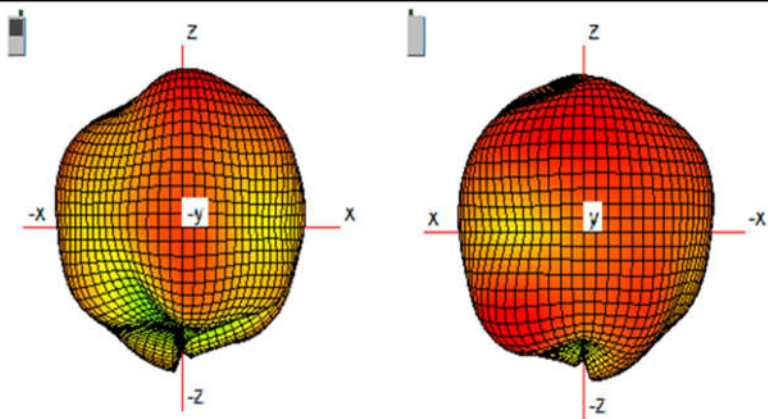
5150MHz



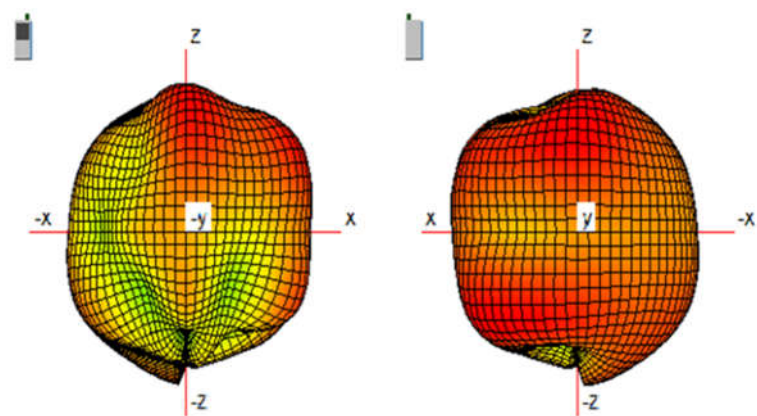
5350MHz



5550MHz

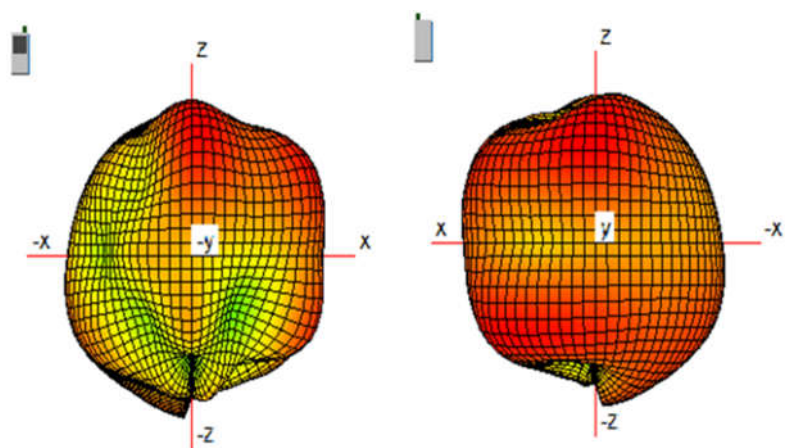


5850MHz

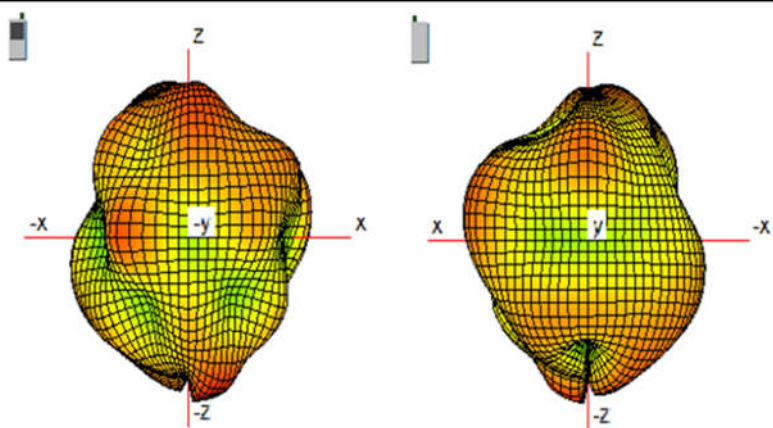


ANT5-WIFI 6G CH0

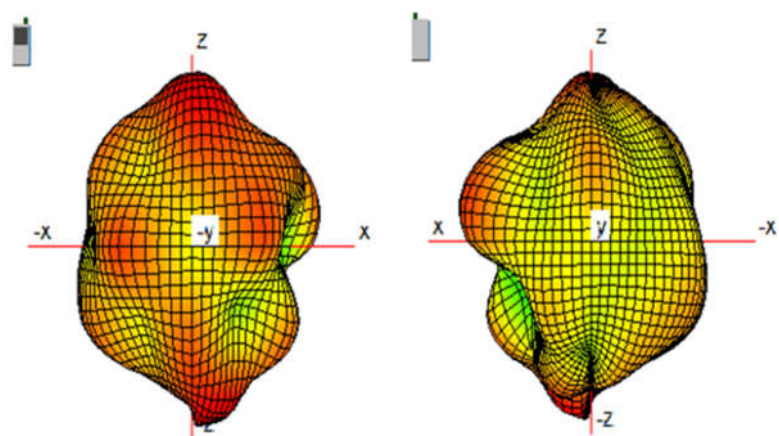
5900MHz



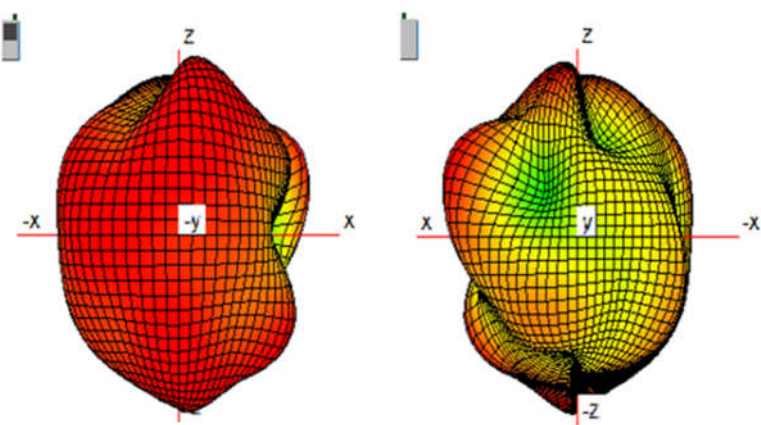
6300MHz



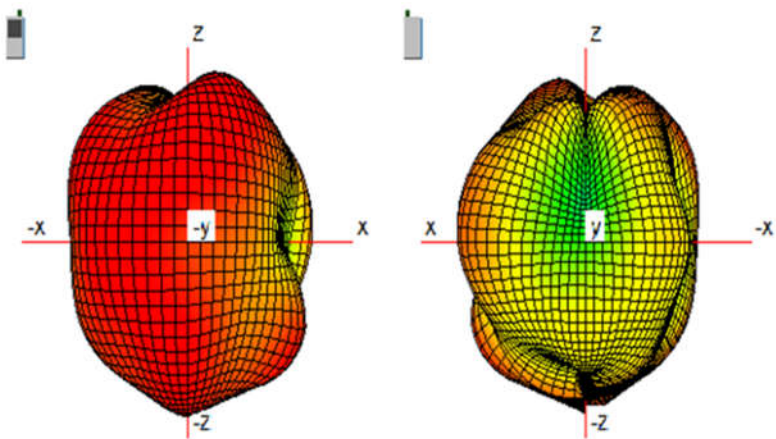
6500MHz



6800MHz

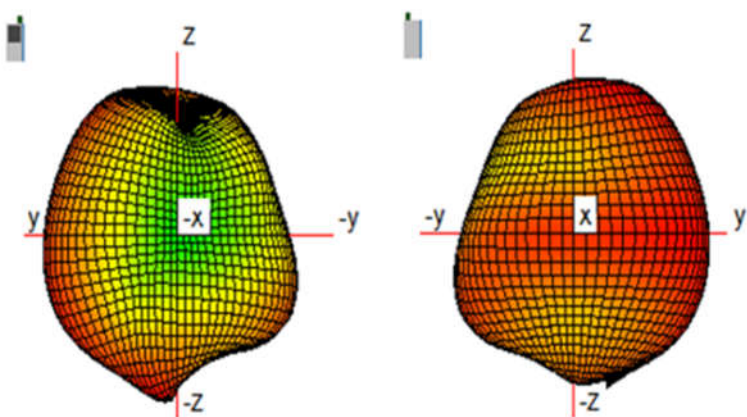


7000MHz



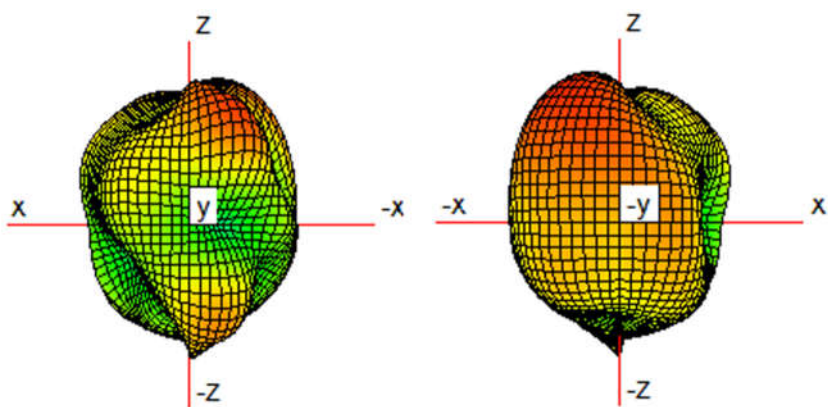
ANT2- WiFi 2.4G CH1

2450MHz

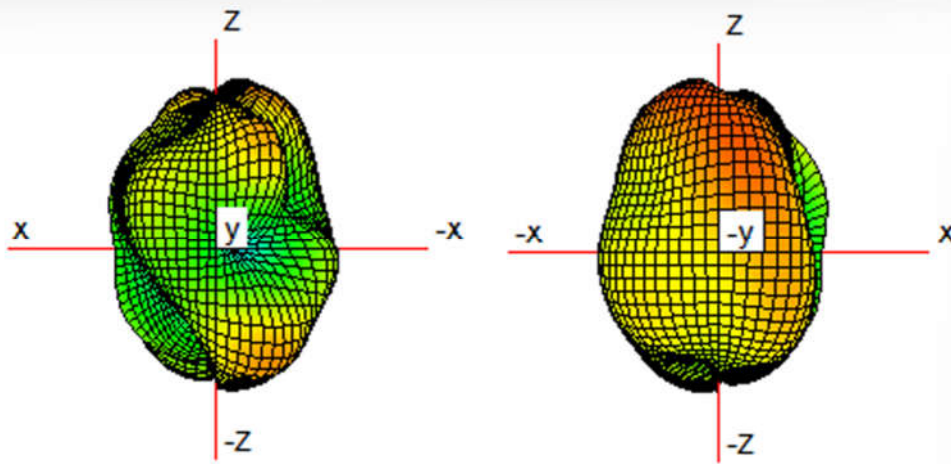


ANT7-WIFI 5G CH1

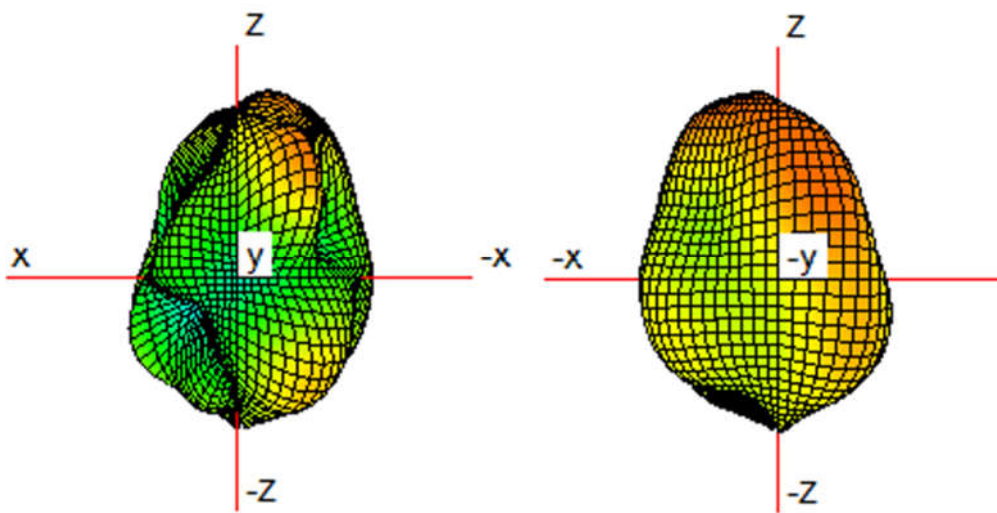
5150MHz



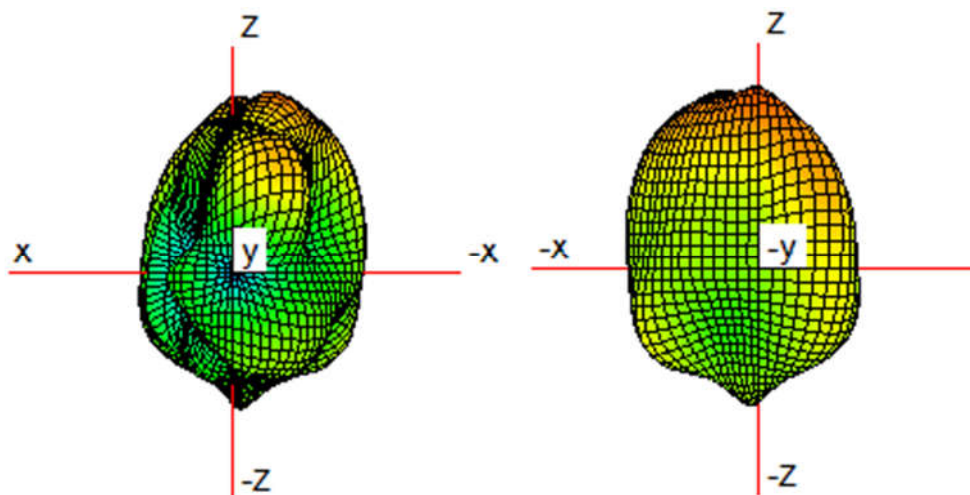
5350MHz



5550MHz

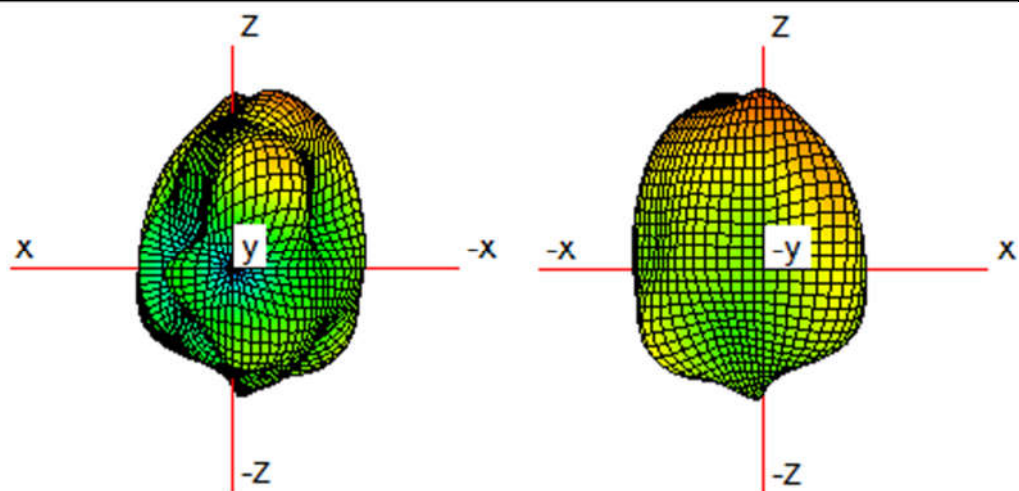


5850MHz

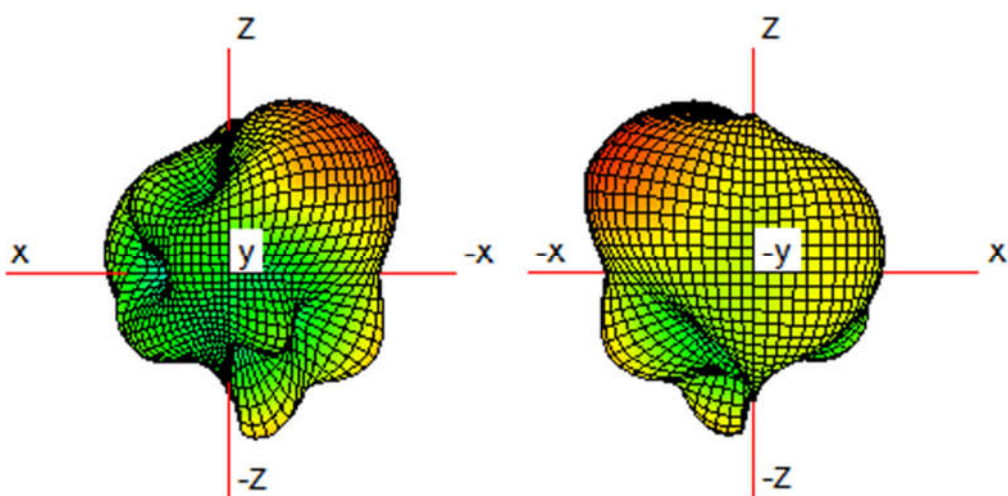


ANT7-WIFI 6G CH1

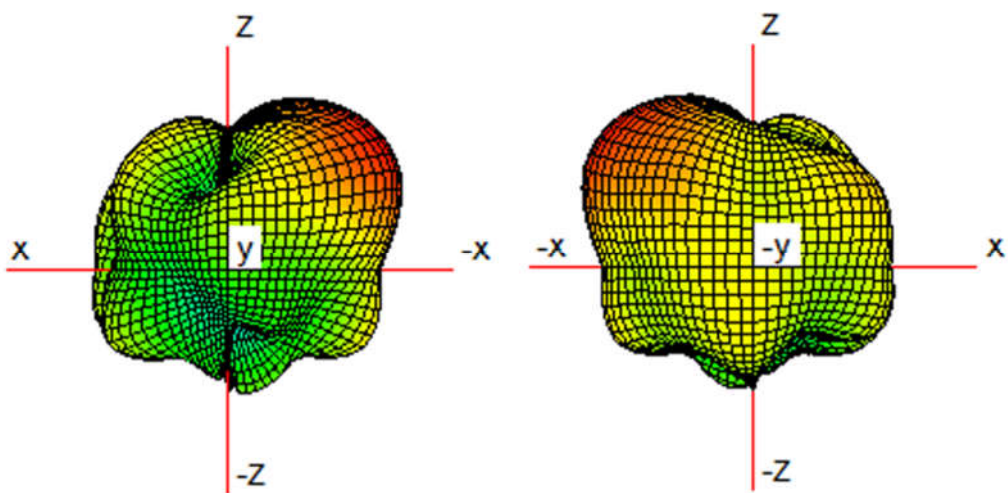
5900MHz



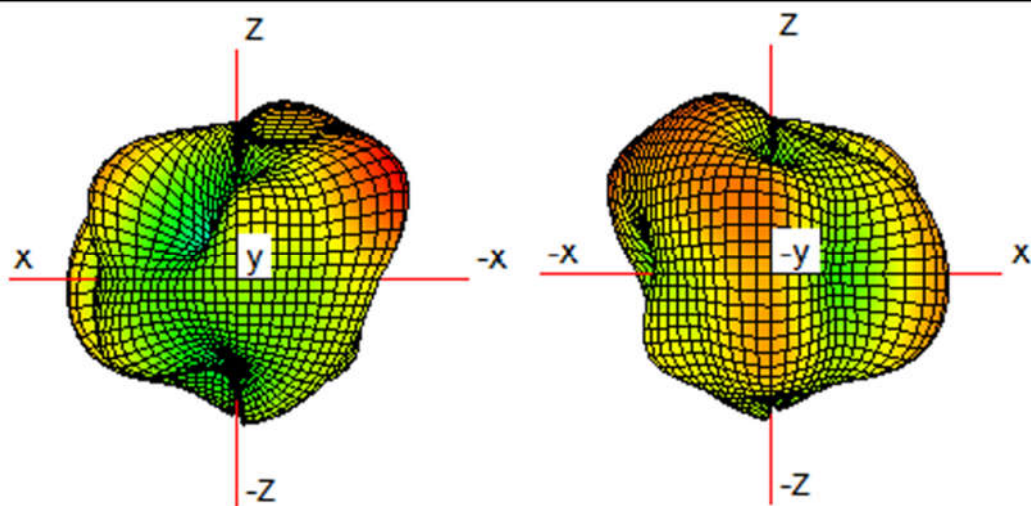
6300MHz



6500MHz



6800MHz



7000MHz

