Antenna Reports

Main Antenna vendor: Motorola
Test lab: Motorola internal lab (by GTS RayZone2800)
Antenna model name: Midframe
Issue date: 2024/01/03

Documented by:
Wang Peng

Antenna Summary Table

Check items	Information
Provided by lab	Motorola internal lab (by GTS RayZone2800)
Manufacturer/ Brand name	Motorola
Manufacturer address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Model name (Part number)	Midframe
Test environment	Motorola Shanghai RD team Lab with GTS RayZone2800 chamber
Test software	MaxSign Libra
Antenna detail info.	ANT7: WiFi2.4G antenna 0 (2.4~2.5GHz), IFA antenna. ANT7:WiFi 5G / 6E antenna 0(5.15~7.125GHz), IFA antenna. ANT5: WiFi 5G / 6E antenna 1(5.15~7.125GHz), Metal antenna. ANT5:WiFi 2.4G antenna 1 (2.4~2.5GHz), Metal antenna. NFC Antenna: Differential port to excite Coil loop + nano crystal sheet with dimension 55.5 mm *64mm * 0.25mm WPT antenna:Differential port to excite Copper Coil + nano crystal sheet with dimension Diameter 50mm*0.25mm(Thickness)
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.

List of Test equipment

Equipment	Calibrate date	Due date	Remark
GTS RayZone2800	October 23, 2022	October 22, 2025	Self-monitor monthly to ensure the variation within 0.5db during the cycle.
Keysight VNA 5071C	September 29, 2023	September 28, 2024	N/A

ANT5/7

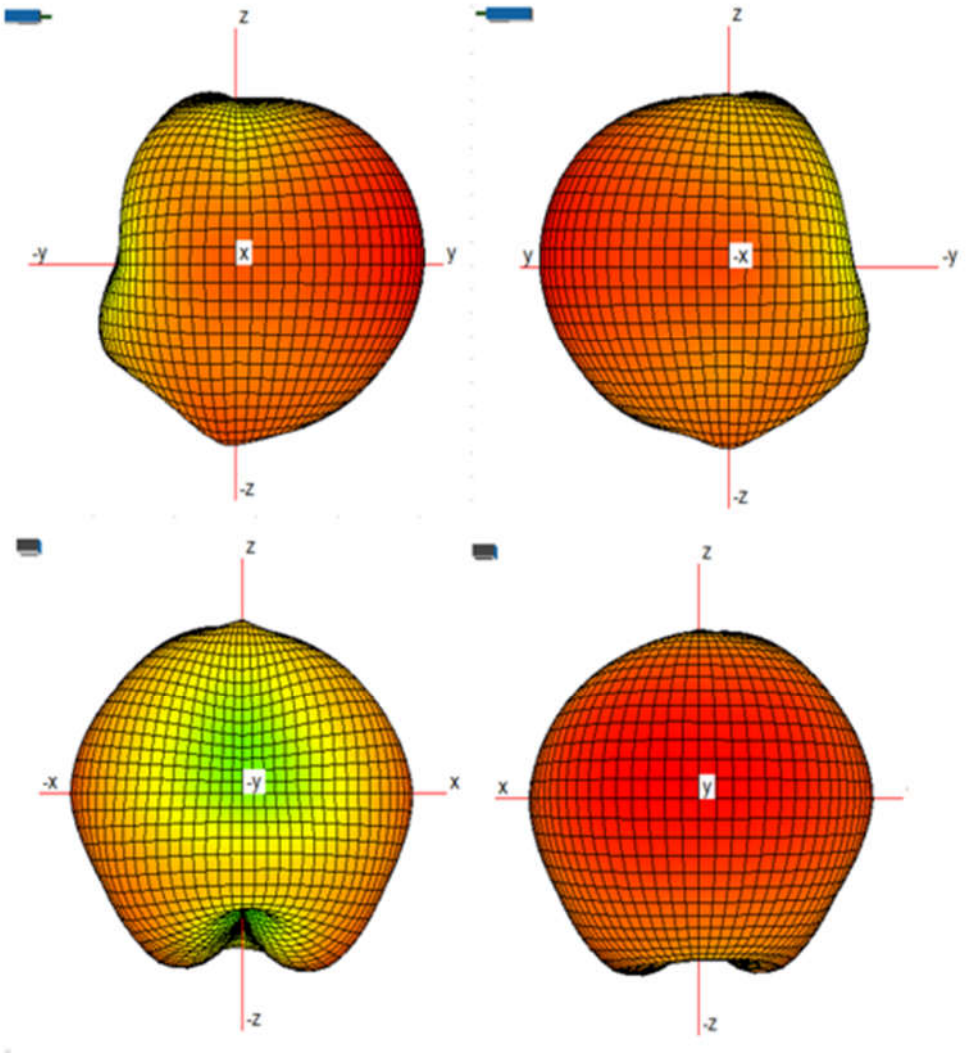
Antenna model name: Midframe

WLAN CH1 Peak Gain (dBi)			
2400~2483.5MHz	-5.9 dBi	**6E UNII-5**	-7 dBi
5150~5250MHz	-7.2 dBi	**6E UNII-6**	-7.2 dBi
5250~5350MHz	-6.8 dBi	**6E UNII-7**	-7dBi
5470~5725MHz	-6.6 dBi	**6E UNII-8**	-7 dBi
5725~5850MHz	-7.4 dBi		

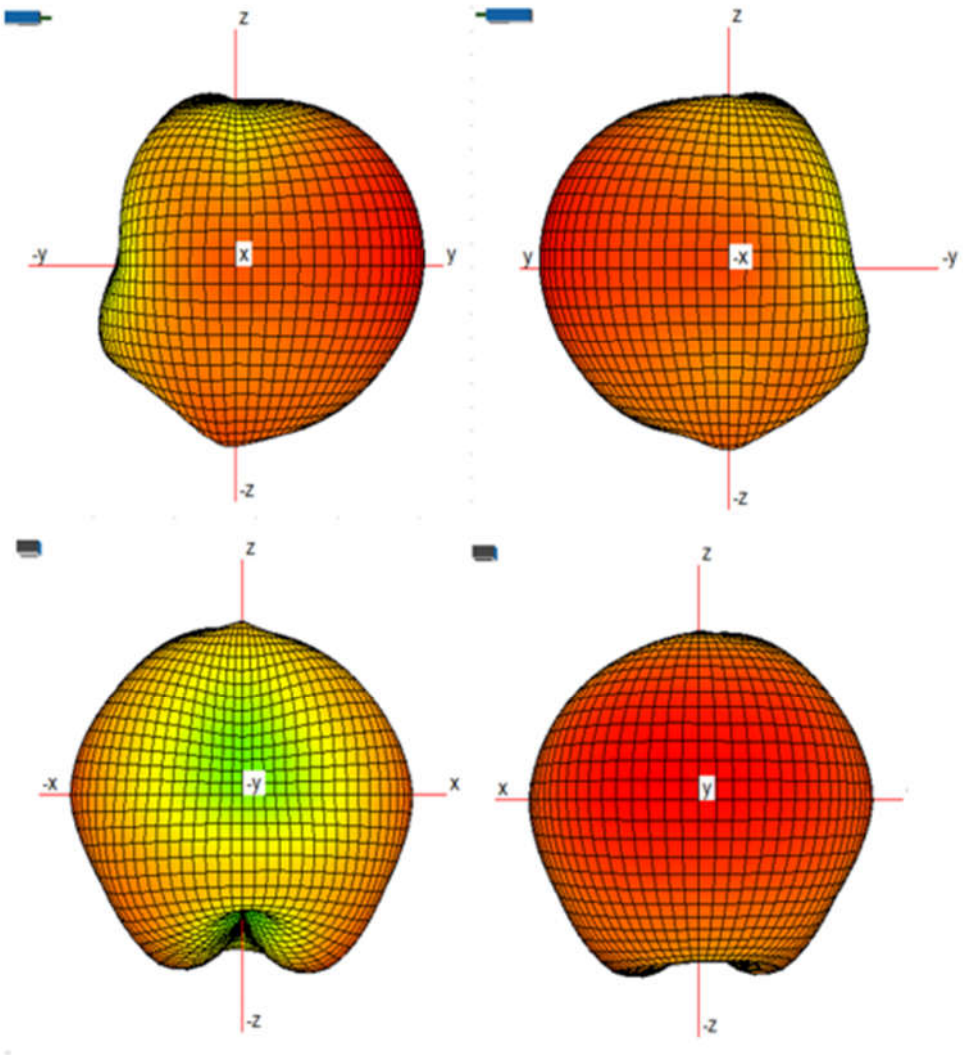
BT /WLAN CH0 Peak Gain (dBi)			
2400~2483.5MHz	-6.8 dBi	**6E UNII-5**	-7 dBi
5150~5250MHz	-7.7 dBi	**6E UNII-6**	-7.2 dBi
5250~5350MHz	-7.6 dBi	**6E UNII-7**	-6.8 dBi
5470~5725MHz	-7.5 dBi	**6E UNII-8**	-7 dBi
5725~5850MHz	-7.4 dBi		

ANT7- WiFI 2.4G CH0

2420MHz

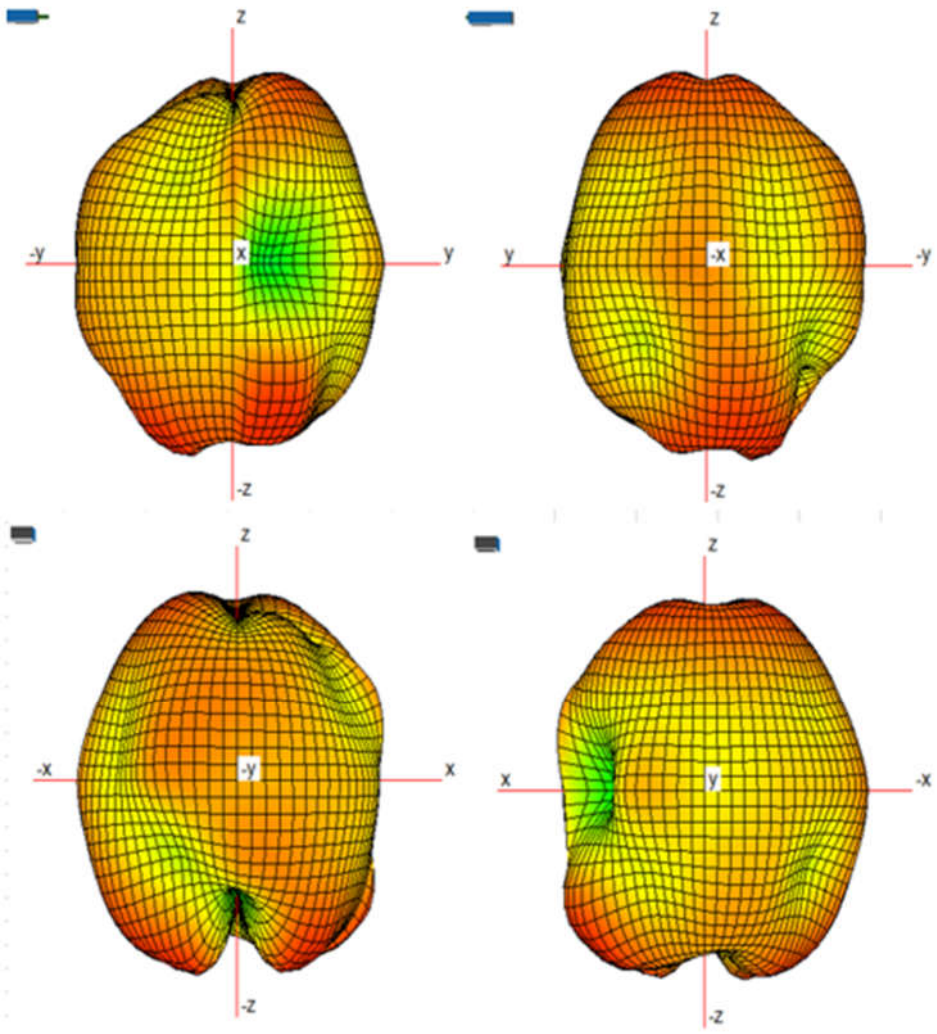


2450MHz

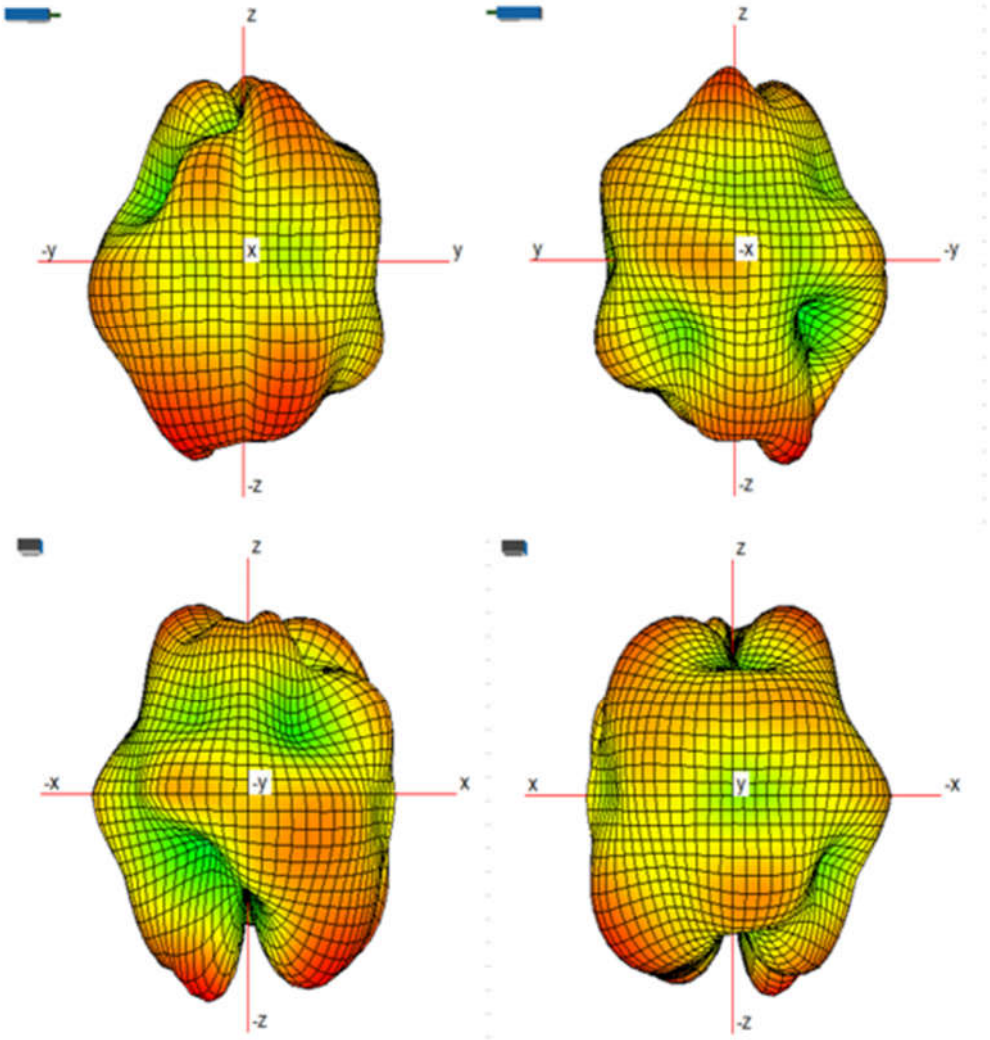


ANT7-WIFI 5G CH0

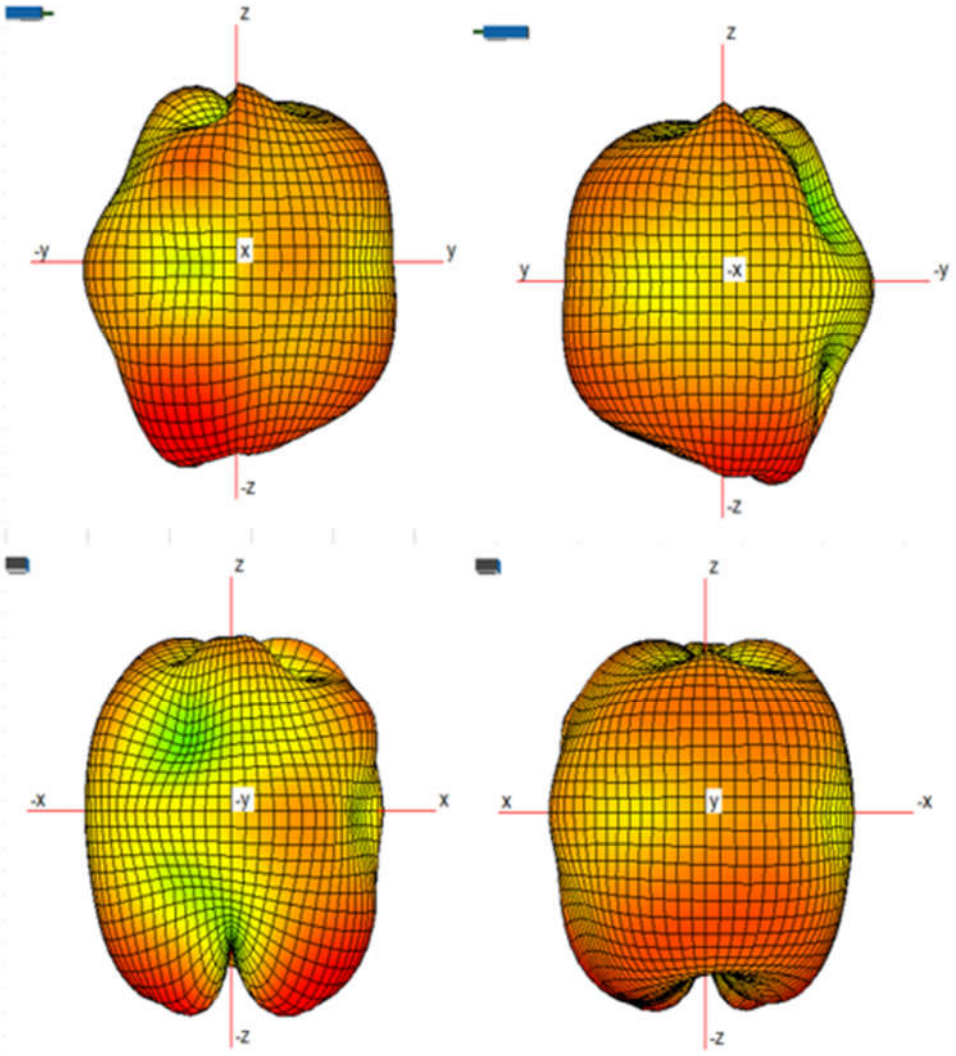
5280MHz



5500MHz

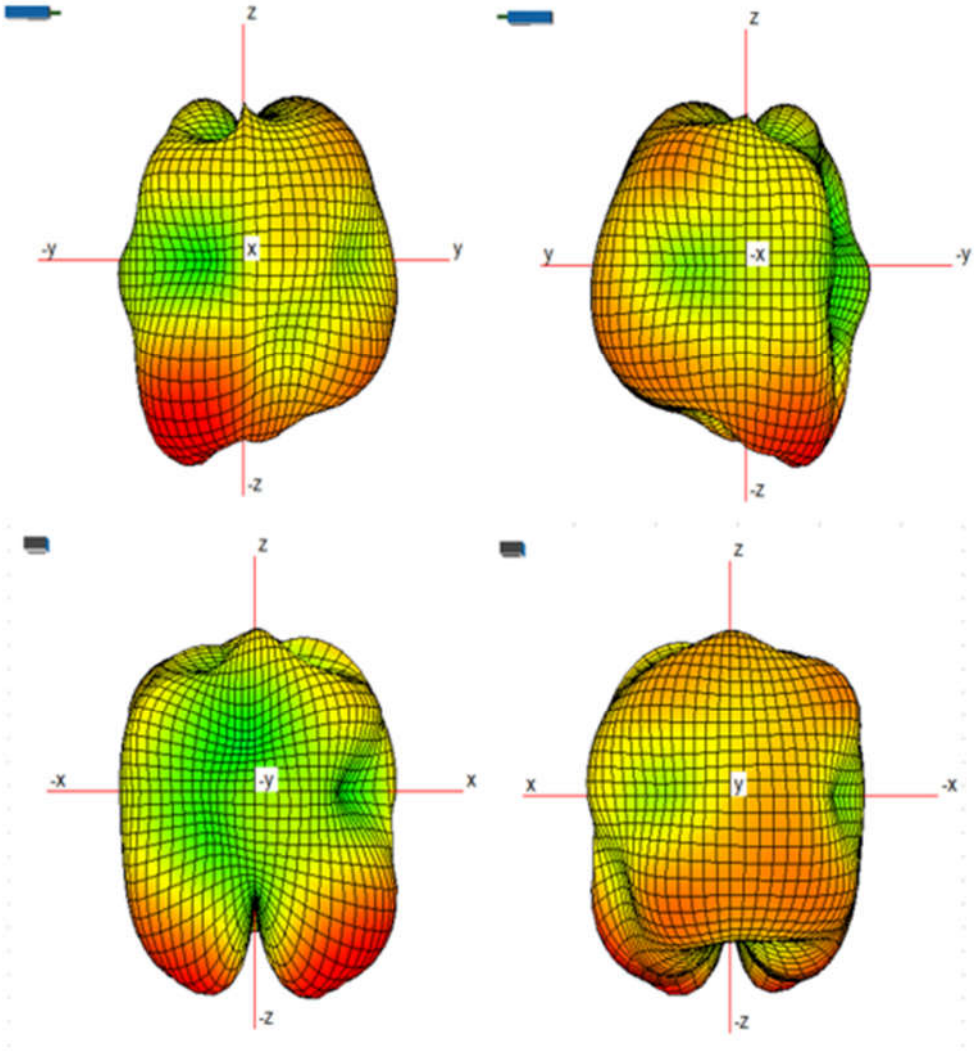


5780MHz

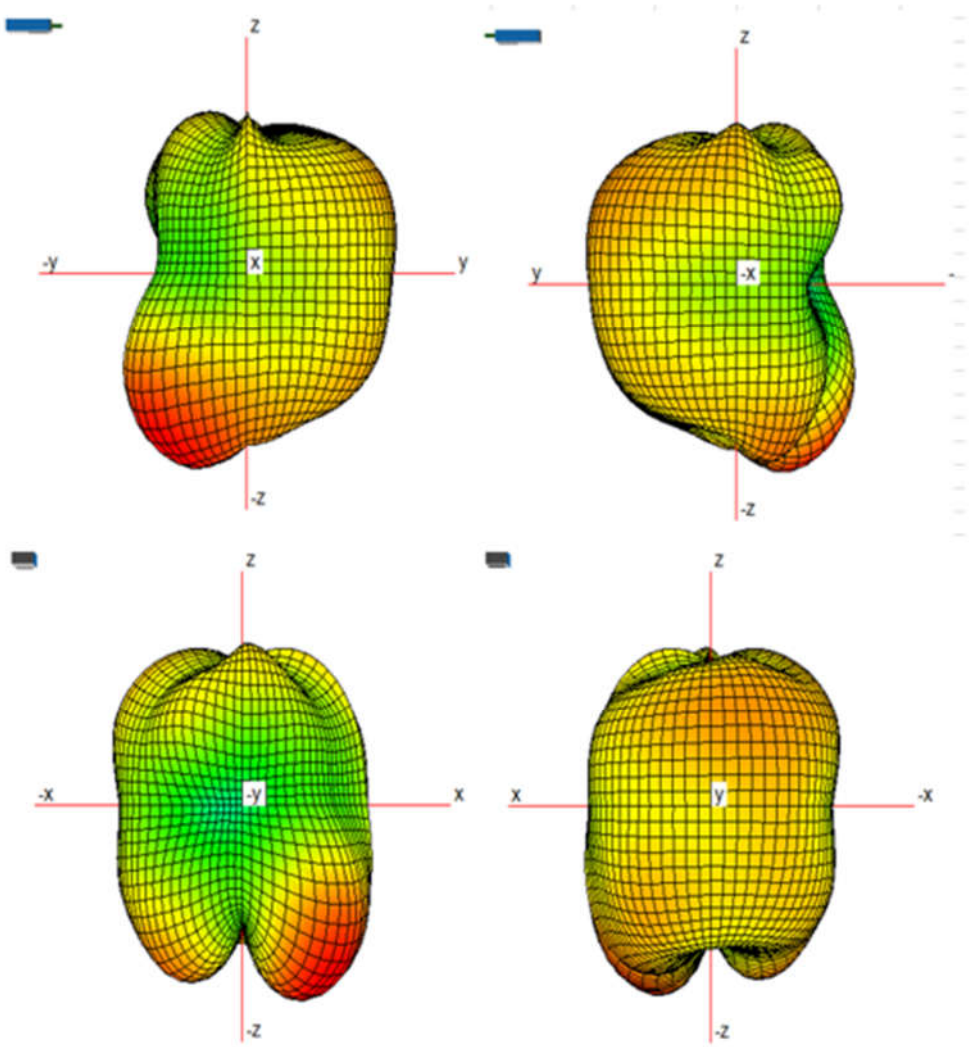


ANT7-WIFI 6E CH0

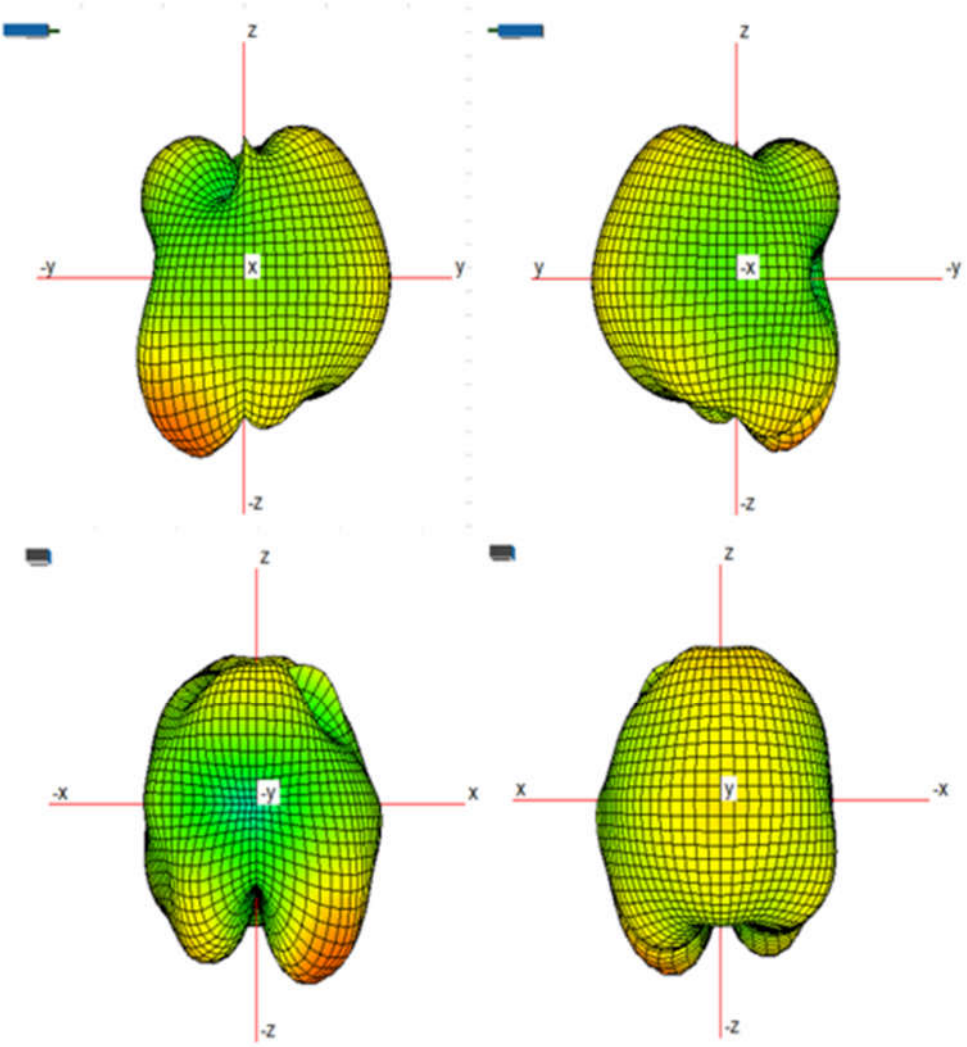
6000MHz



6500MHz

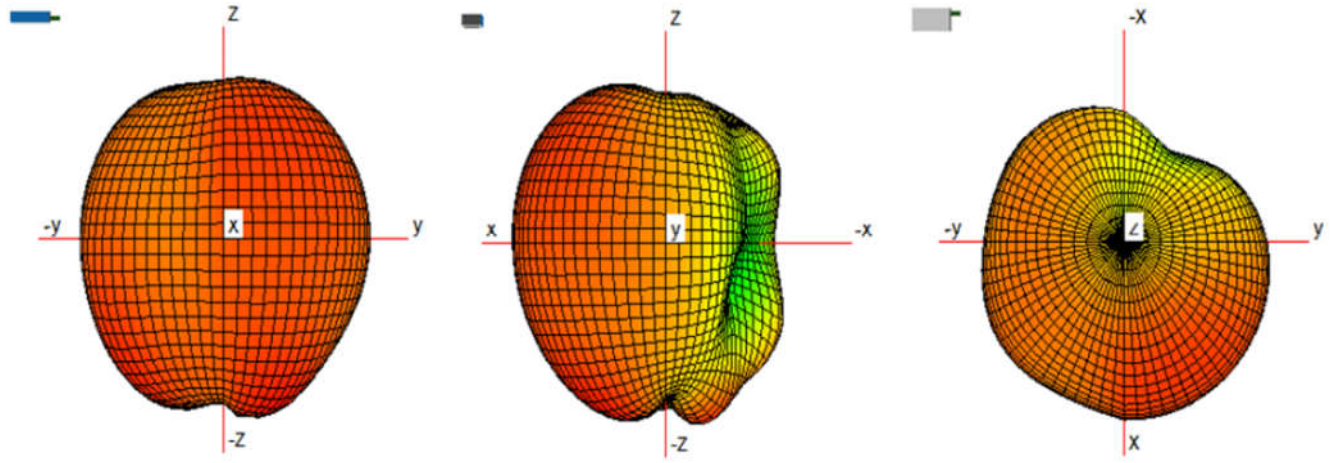


7000MHz

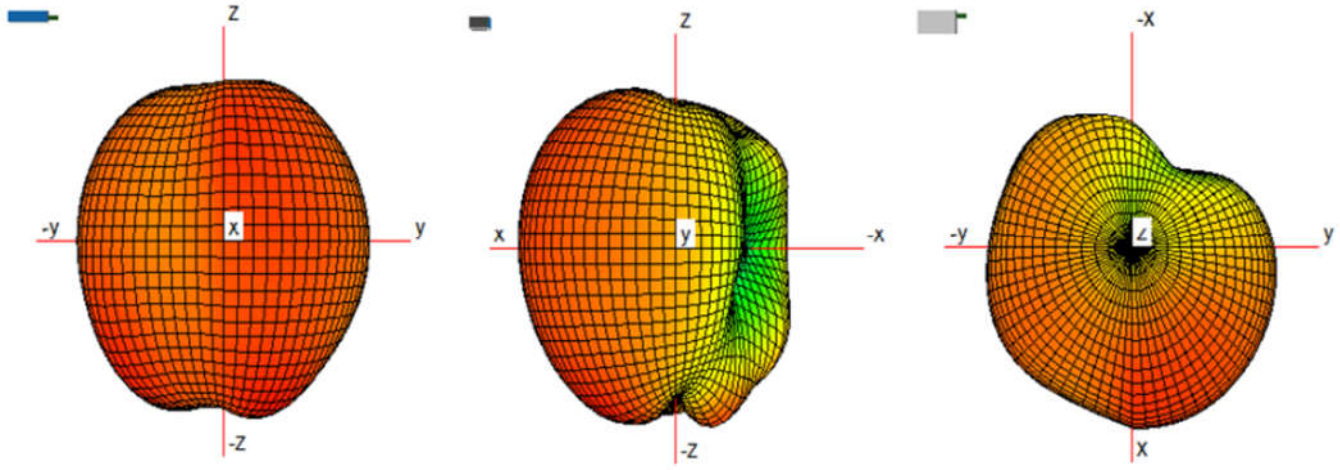


ANT5- WiFI 2.4G CH1

2420MHz

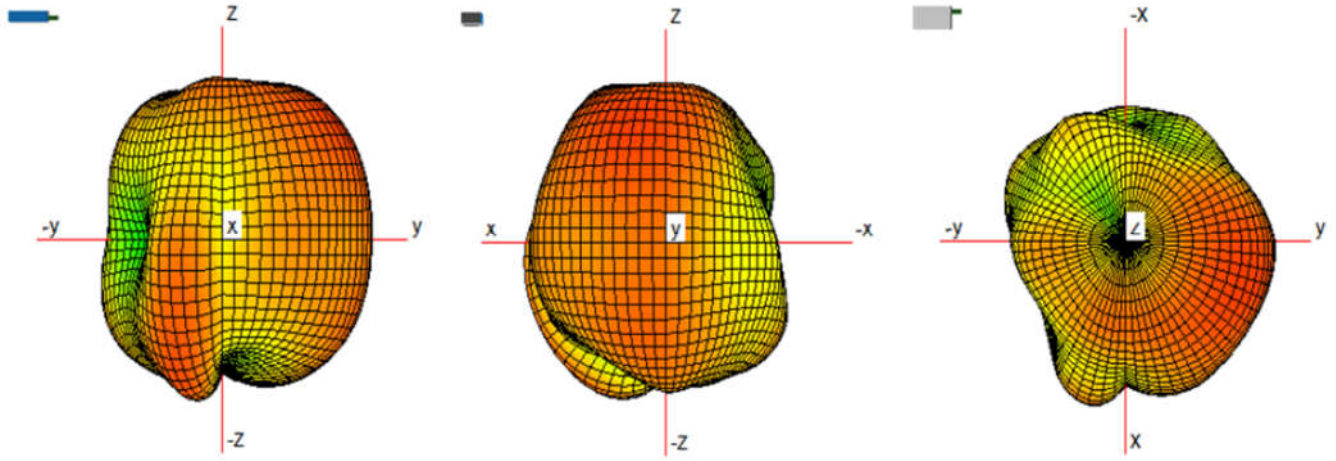


2450MHz

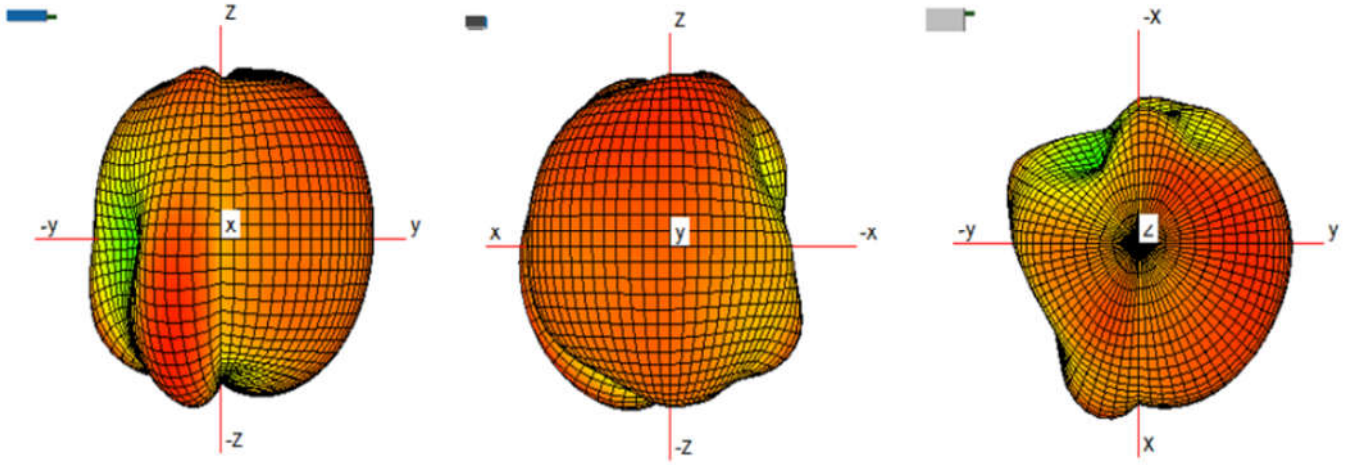


ANT5- WiFI 5G CH1

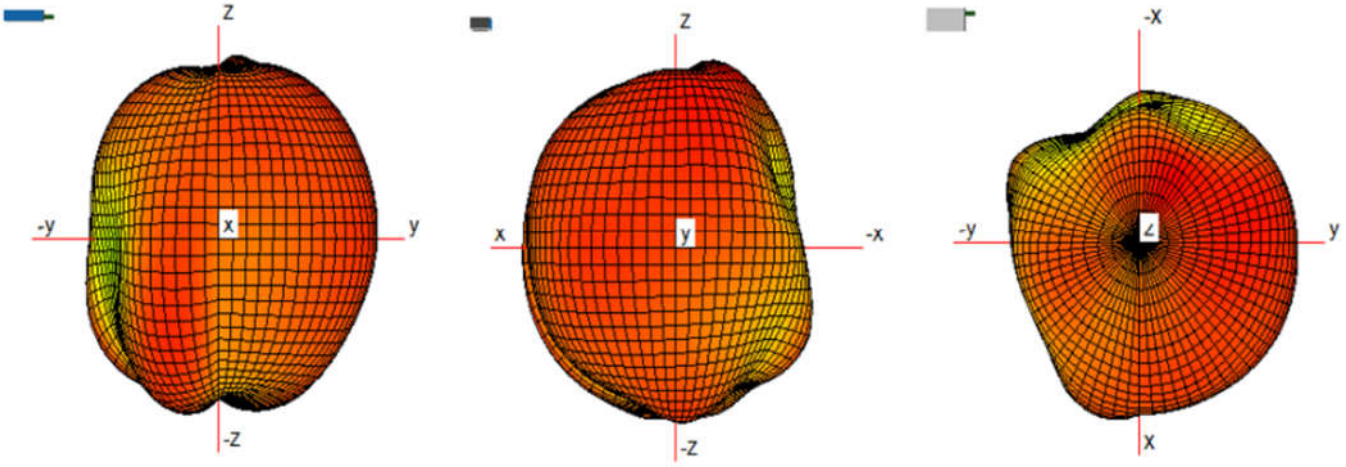
5280MHz



5500MHz

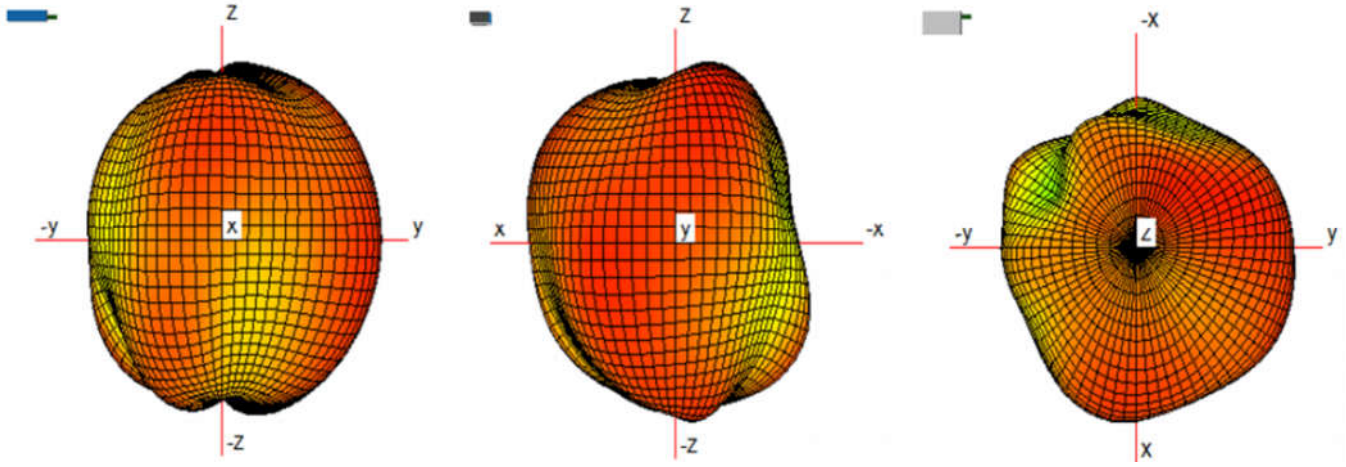


5780MHz

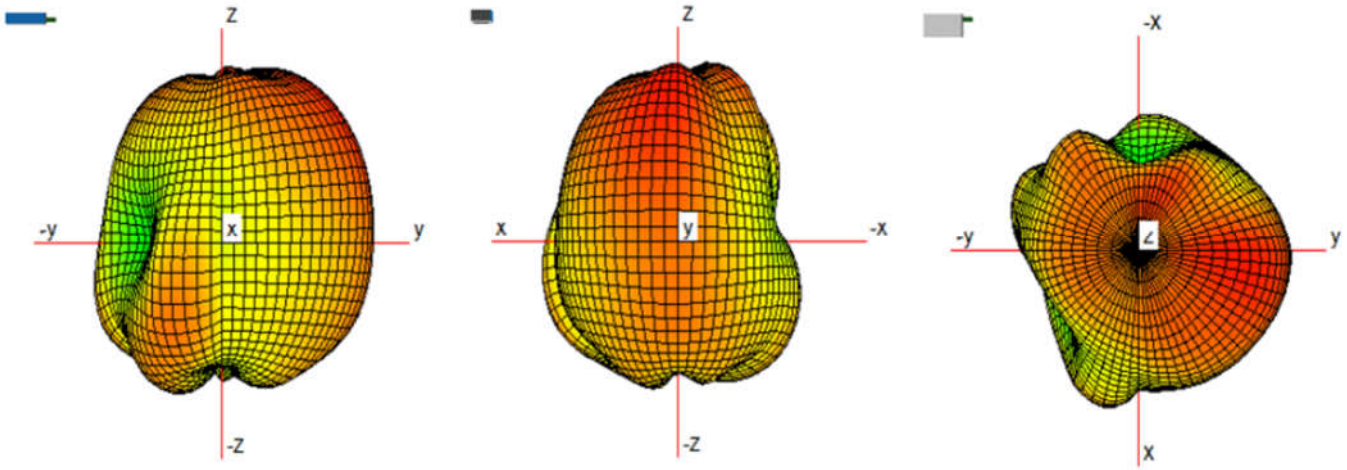
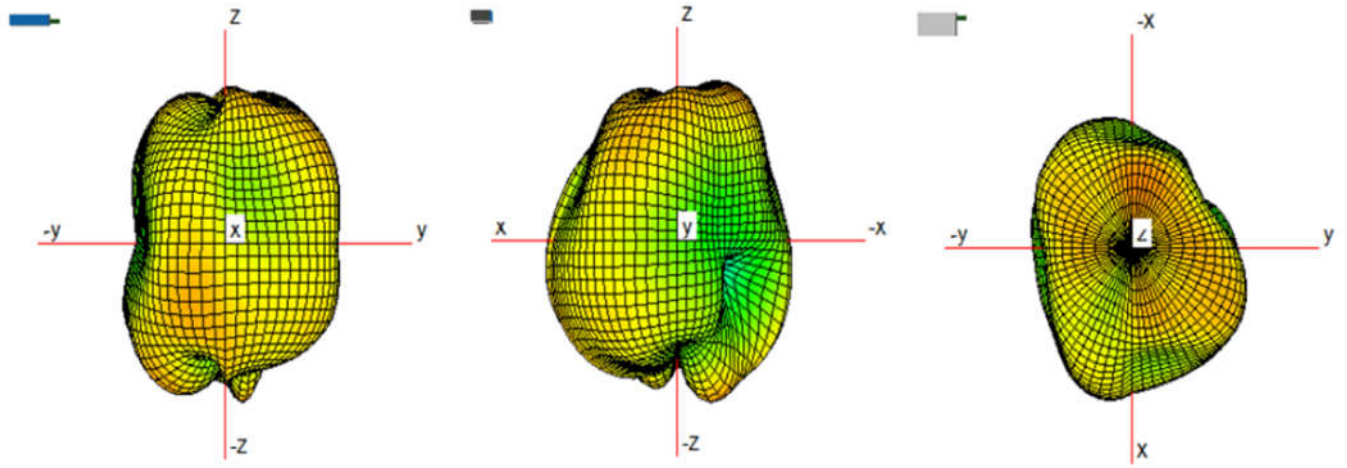


ANT5- WiFI 6E CH1

6000MHz



6500MHz



7000MHz