
Antenna Reports

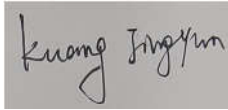
Main Antenna vendor: Motorola

Test lab: Motorola internal lab (by GTS RayZone2800)

Antenna model name: Midframe

Issue date: 2024/03/13

Documented by:

A rectangular box containing a handwritten signature in black ink. The signature appears to read "Kuang Jingyun".

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.	<p>ANT3: WiFi2.4G antenna (2.4~2.5GHz), IFA Antenna type antenna.</p> <p>ANT4:WiFi 5G / 6E antenna(5.15~7.125GHz), IFA Antenna type antenna.</p> <p>ANT5: WiFi 5G / 6E antenna(5.15~7.125GHz), IFA Antenna type antenna.</p> <p>ANT6:WiFi 2.4G antenna (2.4~2.5GHz), IFA type antenna.</p> <p>NFC Antenna: Differential port to excite Loop + nano crystal sheet with dimension 57.4 mm *62.2mm * 0.41mm.</p> <p>WLC antenna: Differential port to excite Loop+ nano crystal sheet with dimension Diameter 48.7mm*0.41mm(Thickness).</p> <p>ANT7: UWB-1 antenna(CH5/CH9), IFA Antenna type antenna.</p> <p>ANT9: UWB-2 antenna(CH5/CH9), Patch Antenna type. Differential port to excite MPI sheet with dimension 21mm*35mm*0.4mm.</p>
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

Antenna model name: Midframe

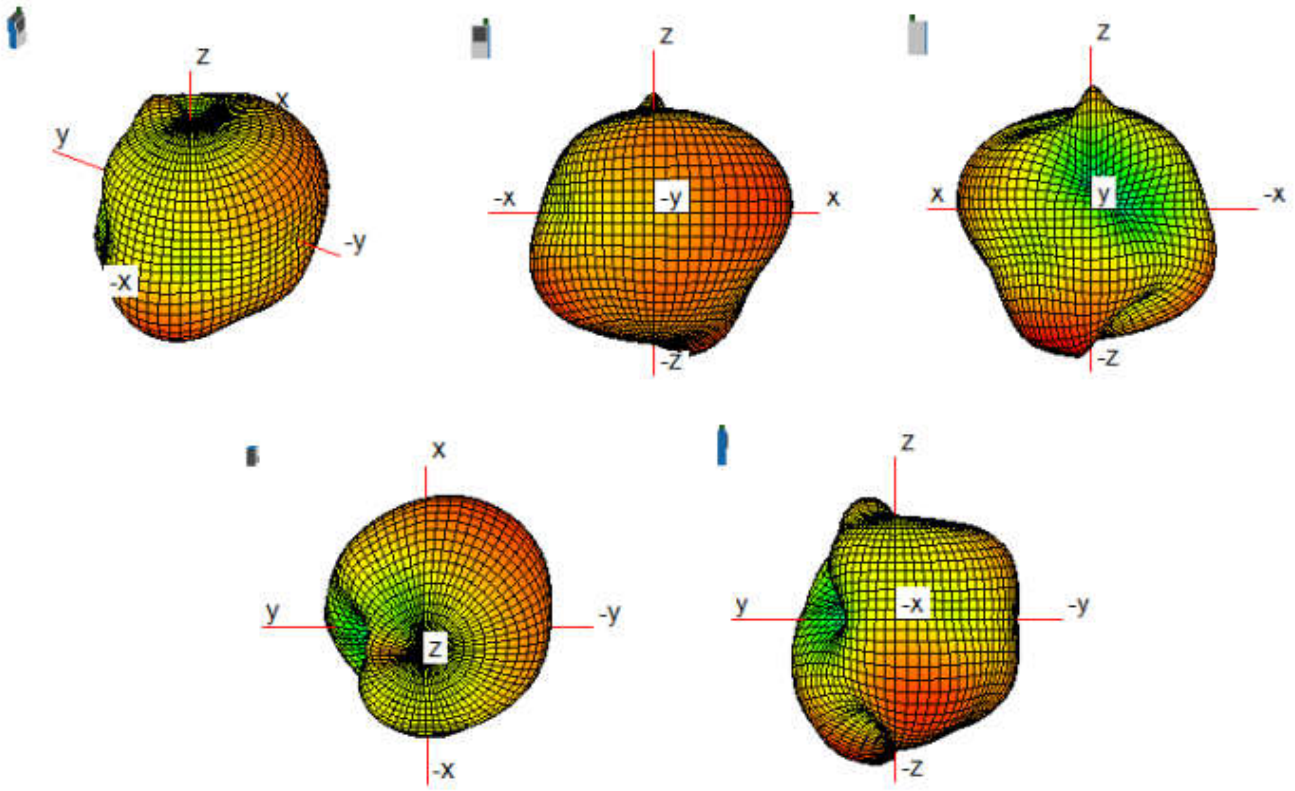
BT/WLAN CH0 Peak Gain (dBi)			
2400~2483.5MHz	-6.5	6E UNII-5	-7
5150~5250MHz	-7.5	6E UNII-6	-7
5250~5350MHz	-7.5	6E UNII-7	-7
5470~5725MHz	-7.8	6E UNII-8	-7
5725~5850MHz	-7.8		

BT/WLAN CH1 Peak Gain (dBi)			
2400~2483.5MHz	-6.7	6E UNII-5	-5
5150~5250MHz	-7.5	6E UNII-6	-6
5250~5350MHz	-7.7	6E UNII-7	-6
5470~5725MHz	-7.5	6E UNII-8	-6
5725~5850MHz	-7.5		

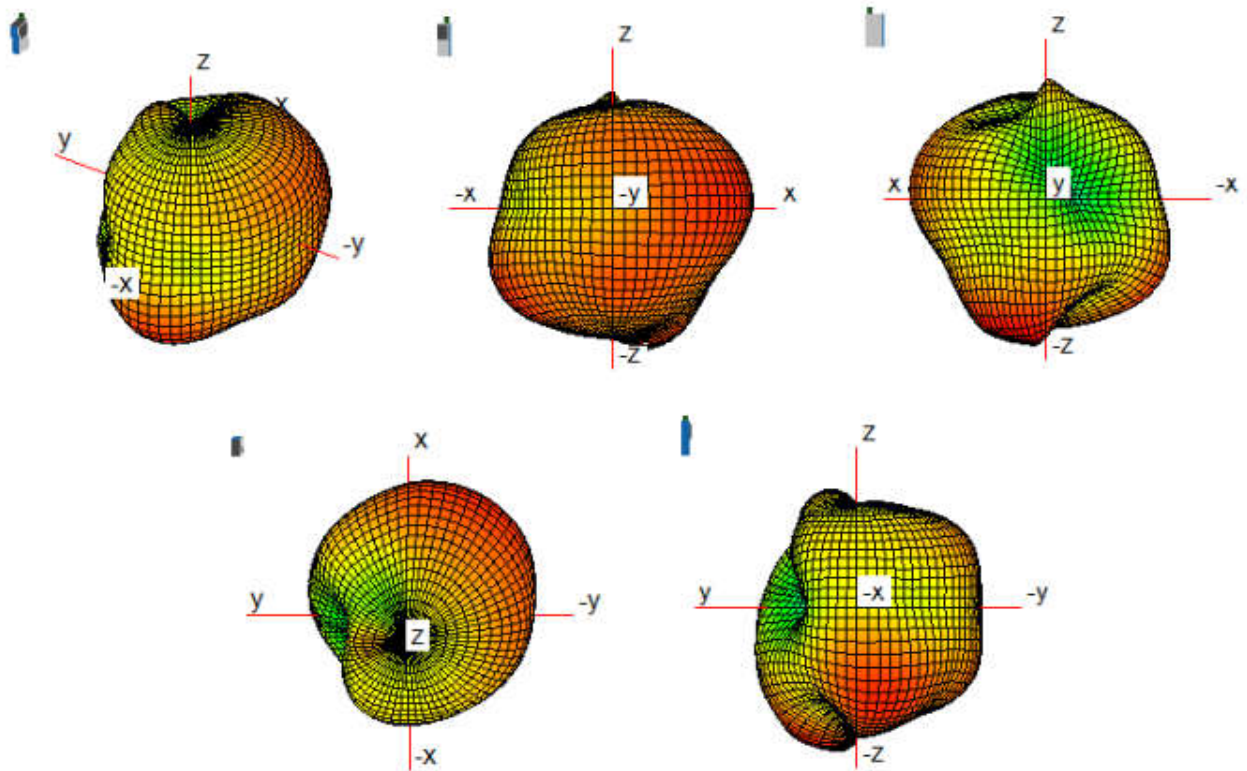
UWB-1 Peak Gain (dBi)			
CH5(6250~6750MHz)	-1.6	CH5(7750~8250MHz)	1.7
UWB-2 Peak Gain (dBi)			
CH5(6250~6750MHz)	-0.3	CH5(77500~8250MHz)	1.3

ANT6- WiFi 2.4G CH0

2420MHz

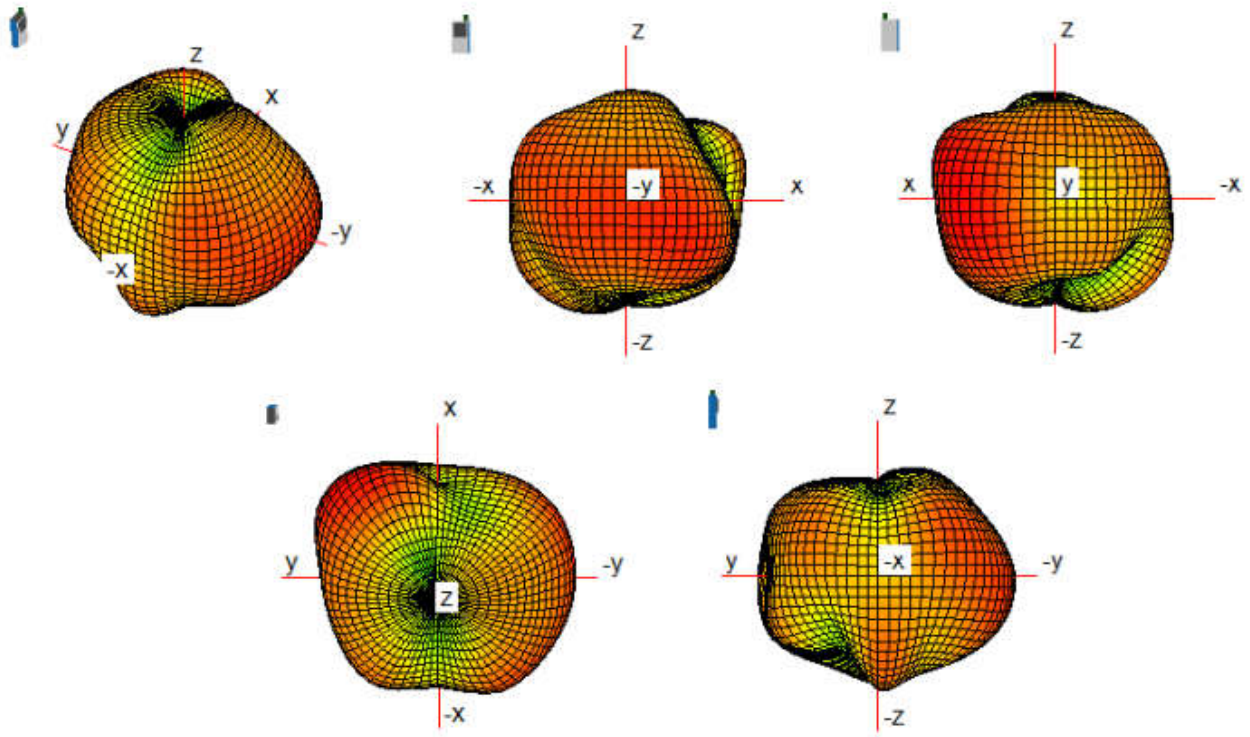


2450MHz

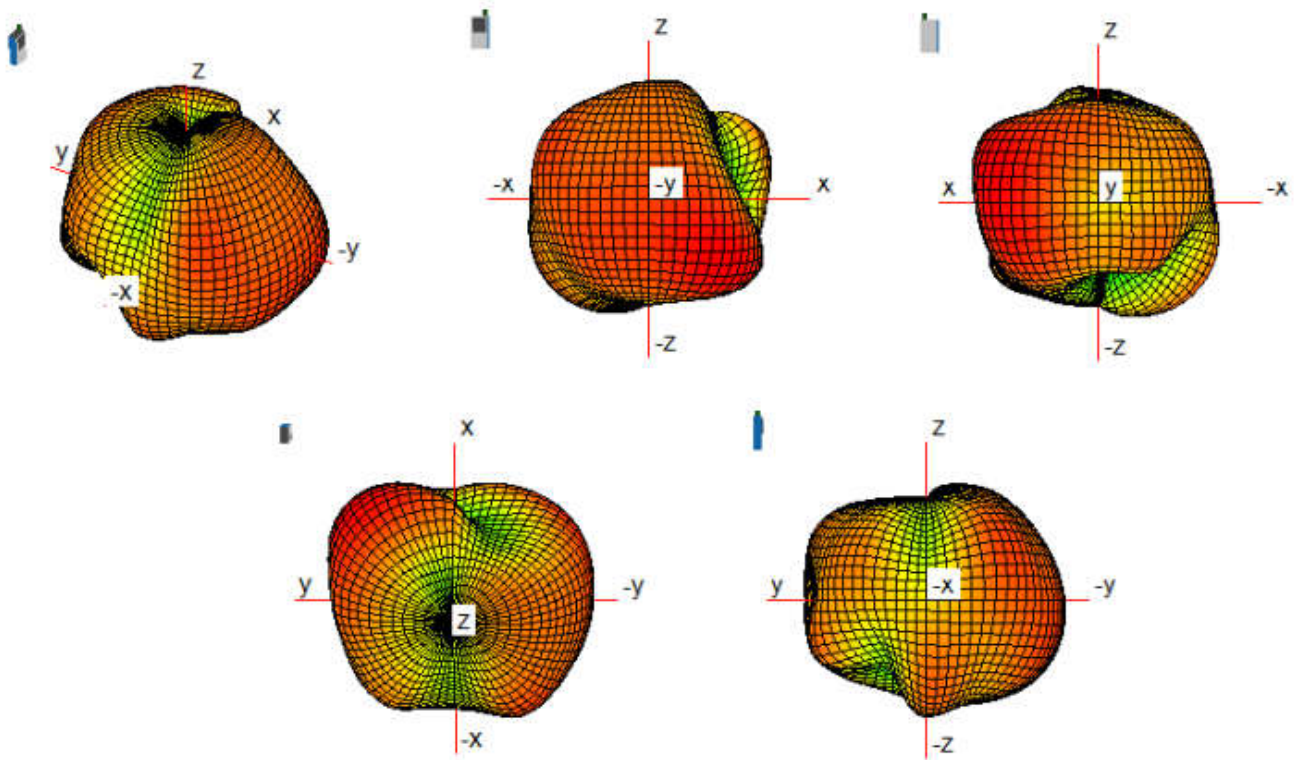


ANT4-WIFI 5G CH1

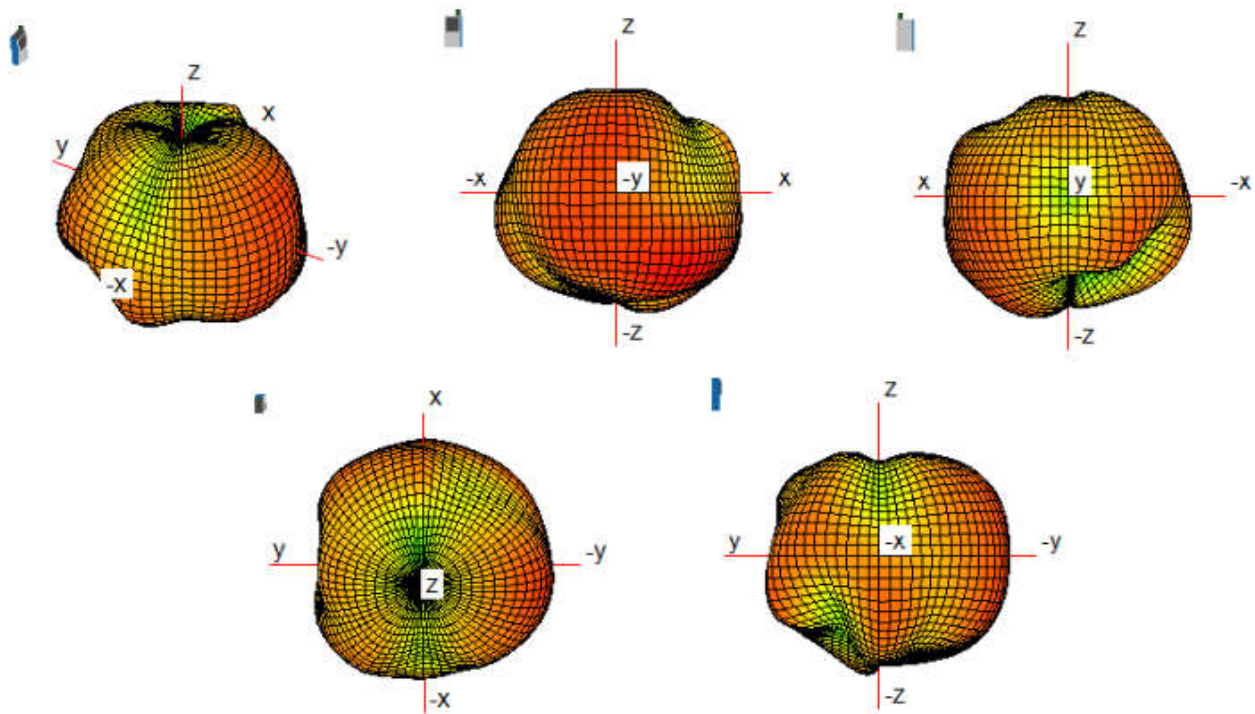
5280MHz



5500MHz

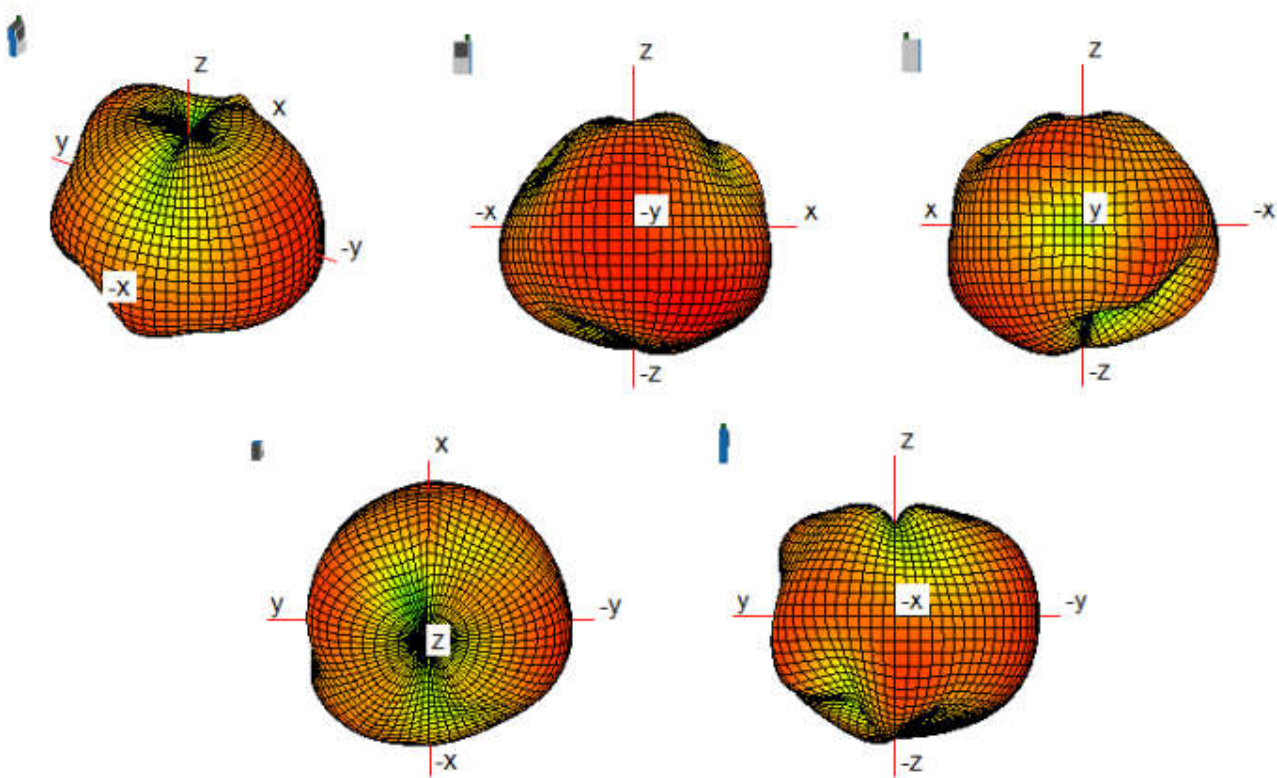


5780MHz

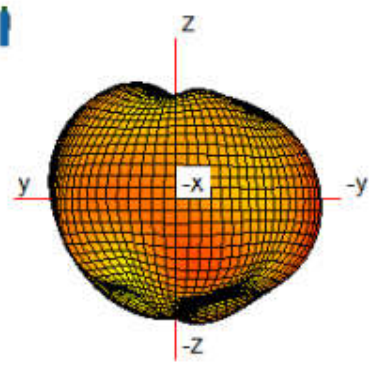
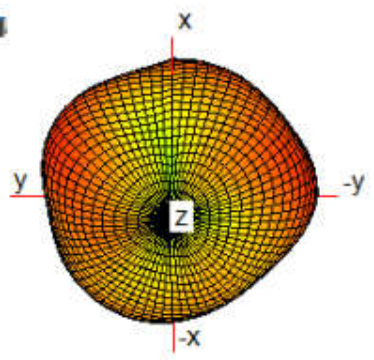
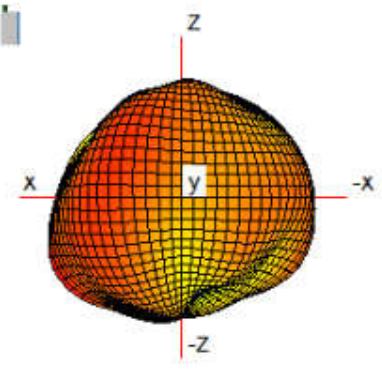
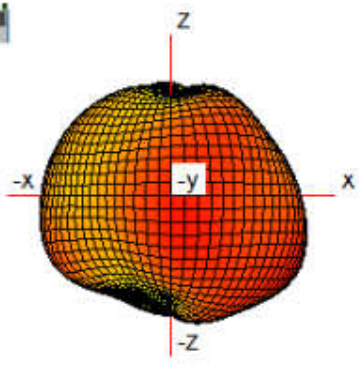
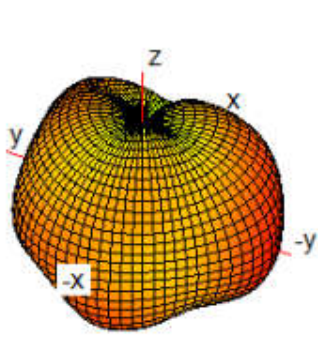


ANT4-WIFI 6E CH1

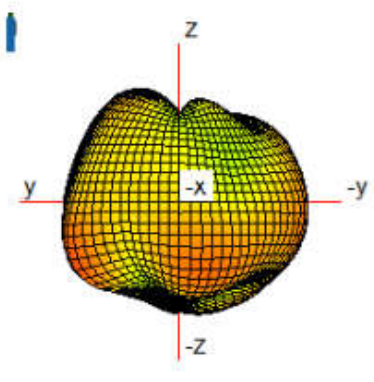
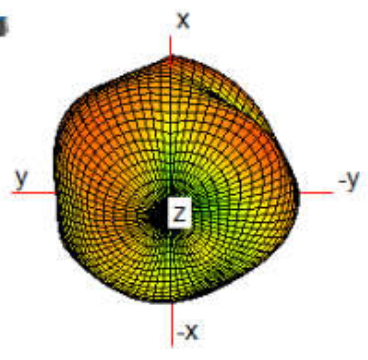
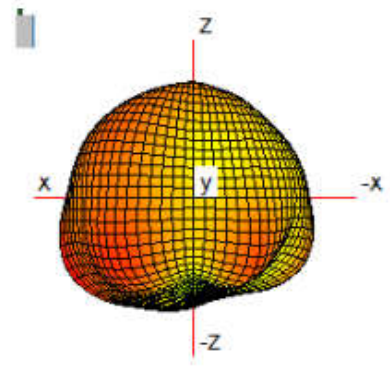
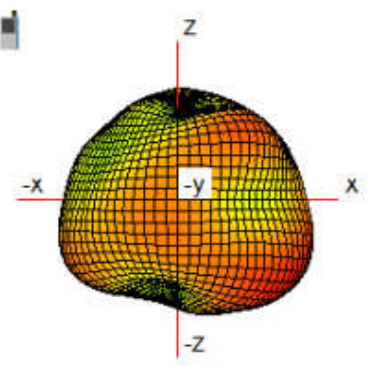
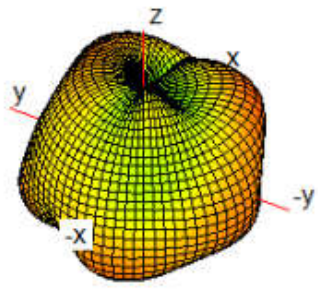
6000MHz



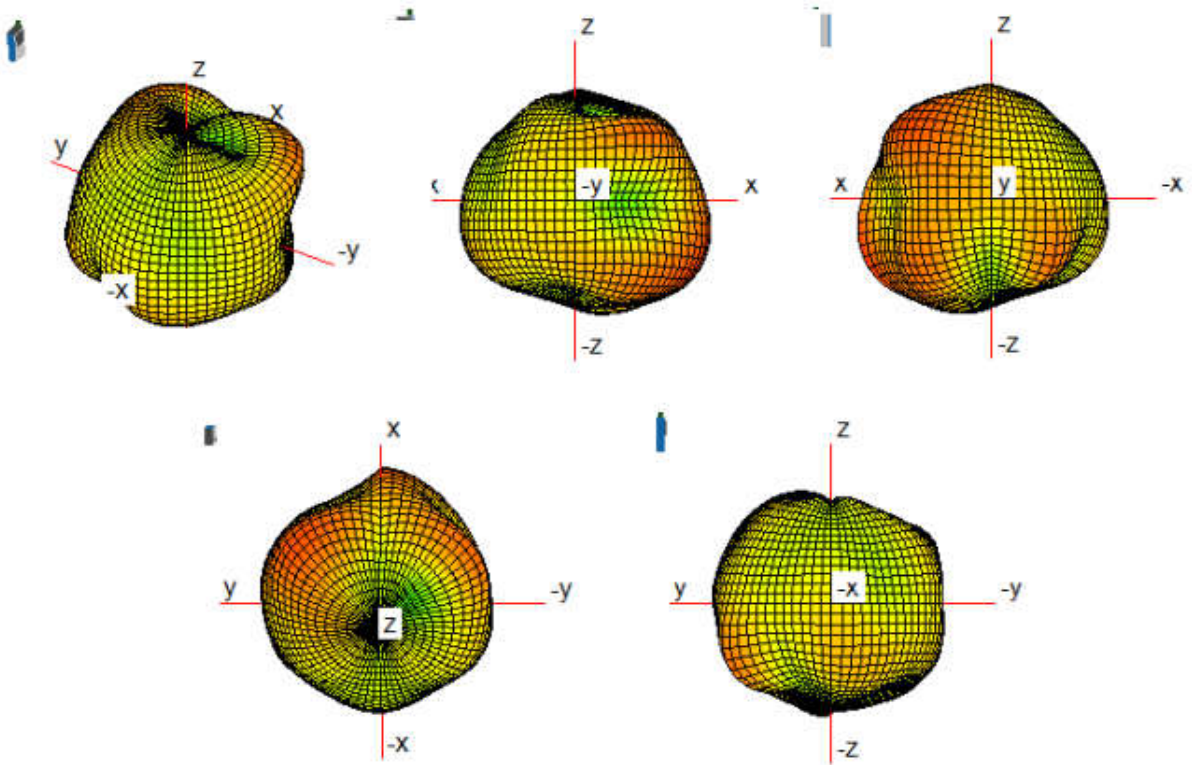
6500MHz



6800MHz

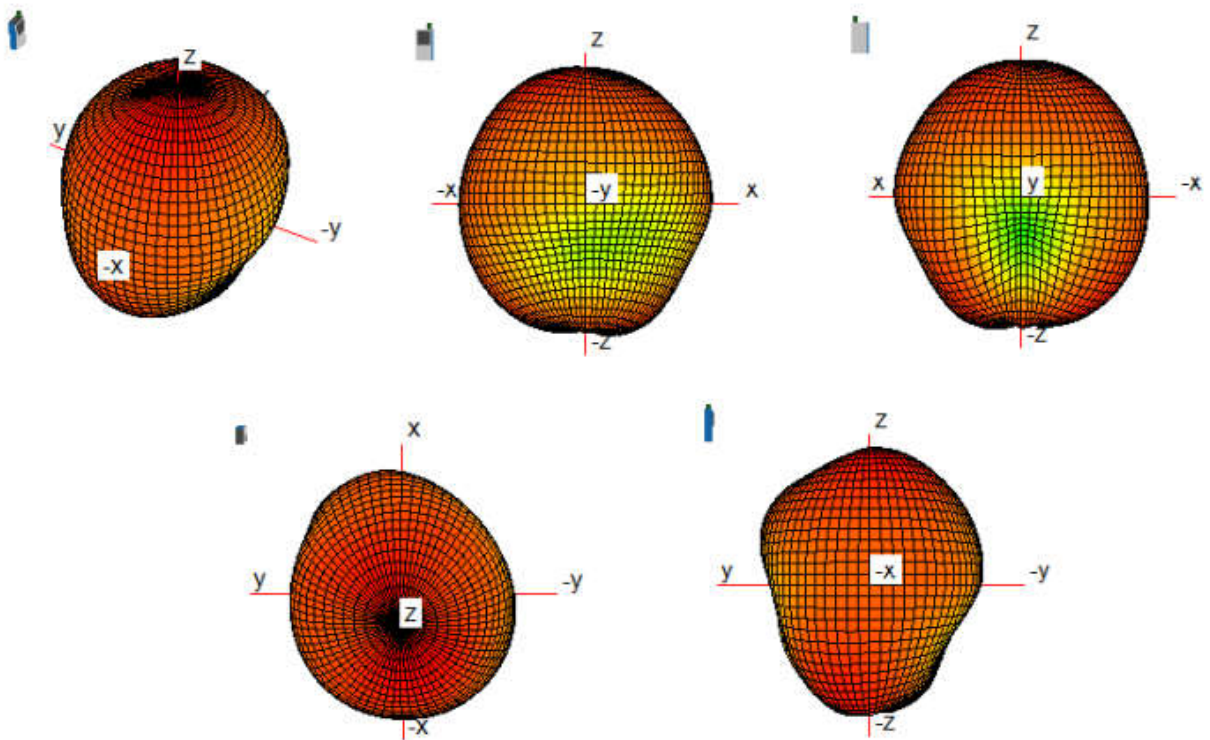


7000MHz

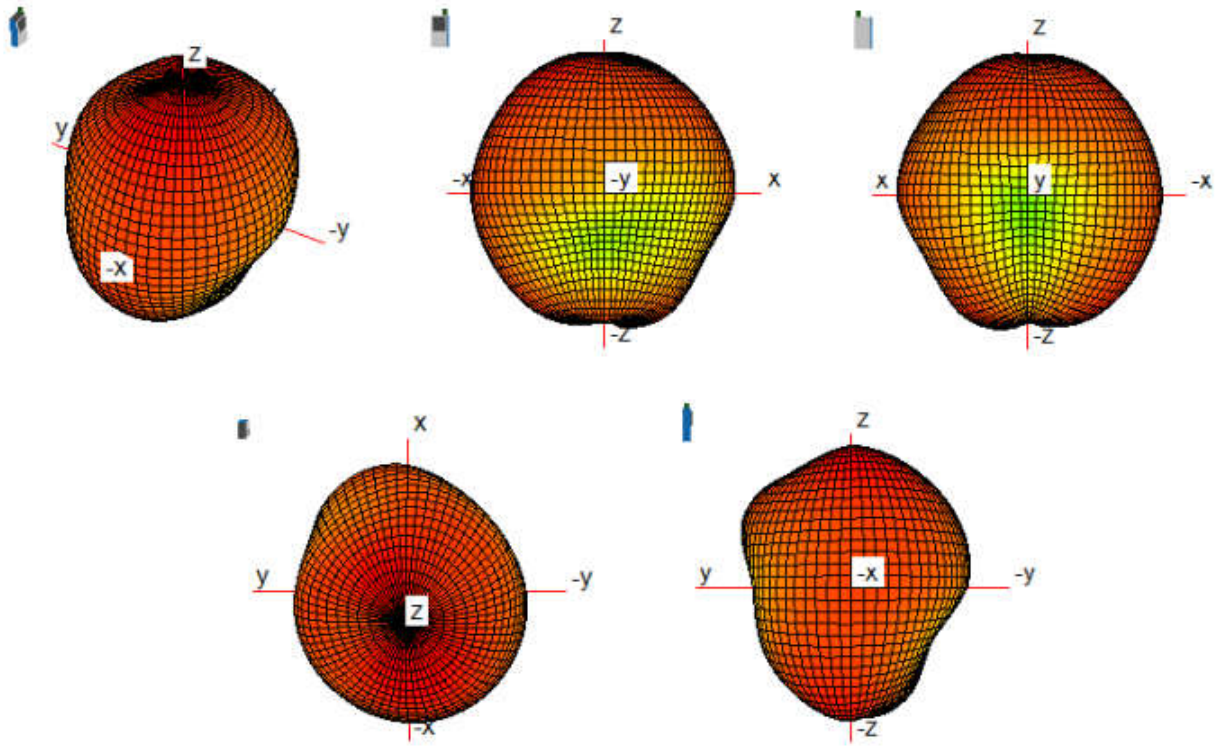


ANT3- WiFi 2.4G CH1

2420MHz

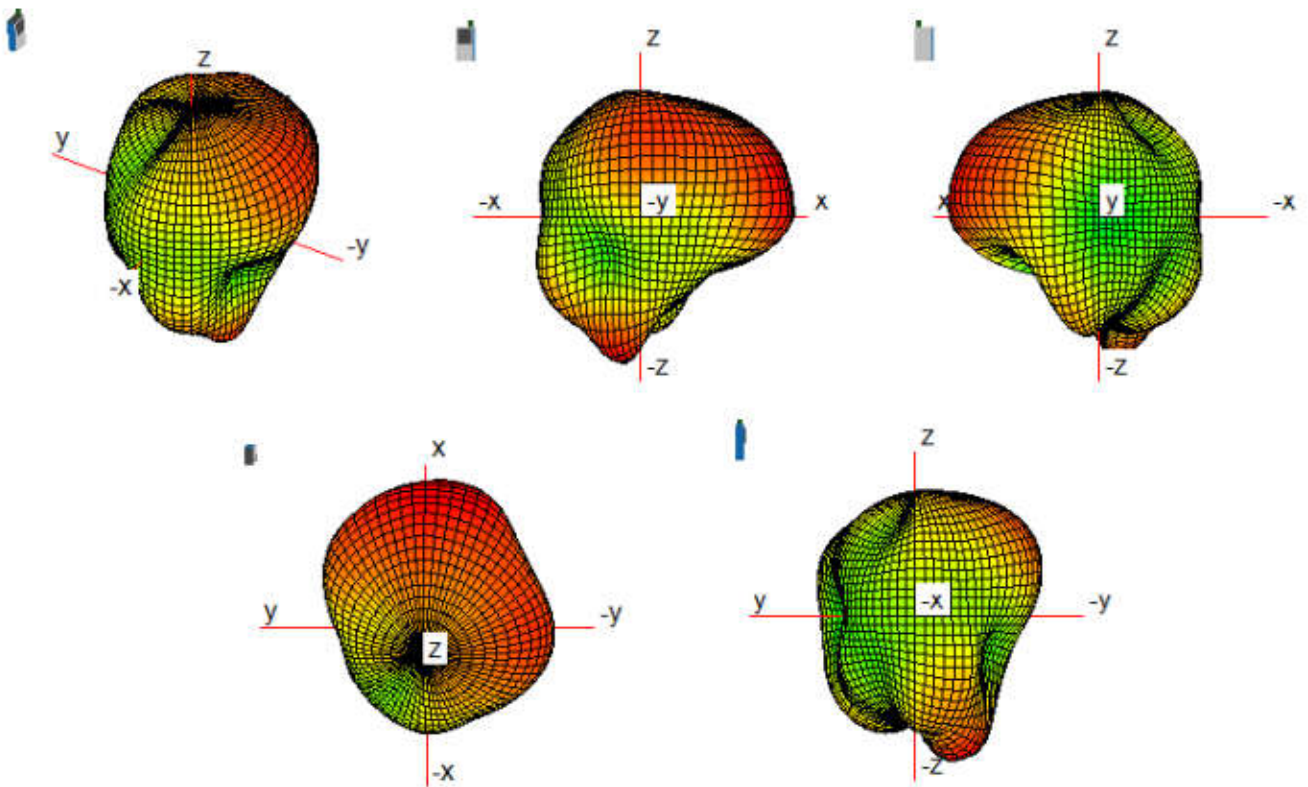


2450MHz

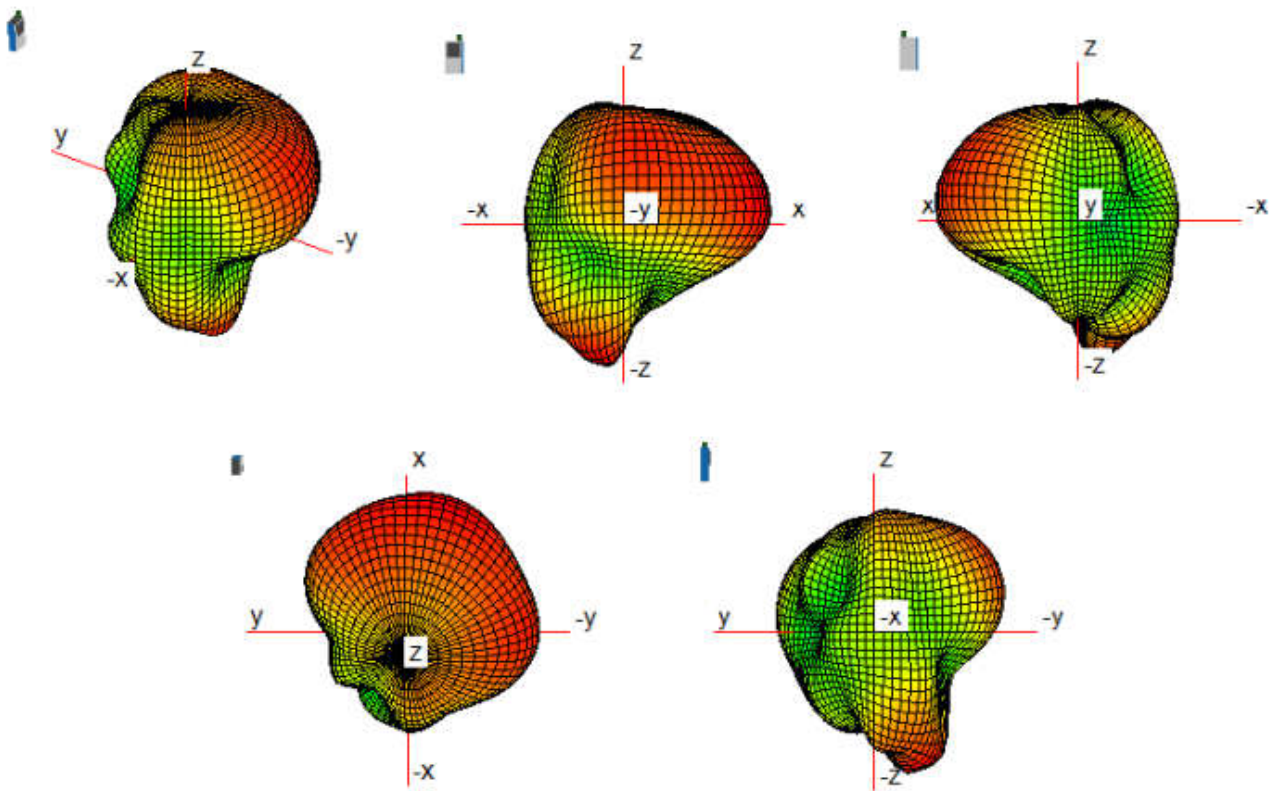


ANT5- WiFi 5G CH0

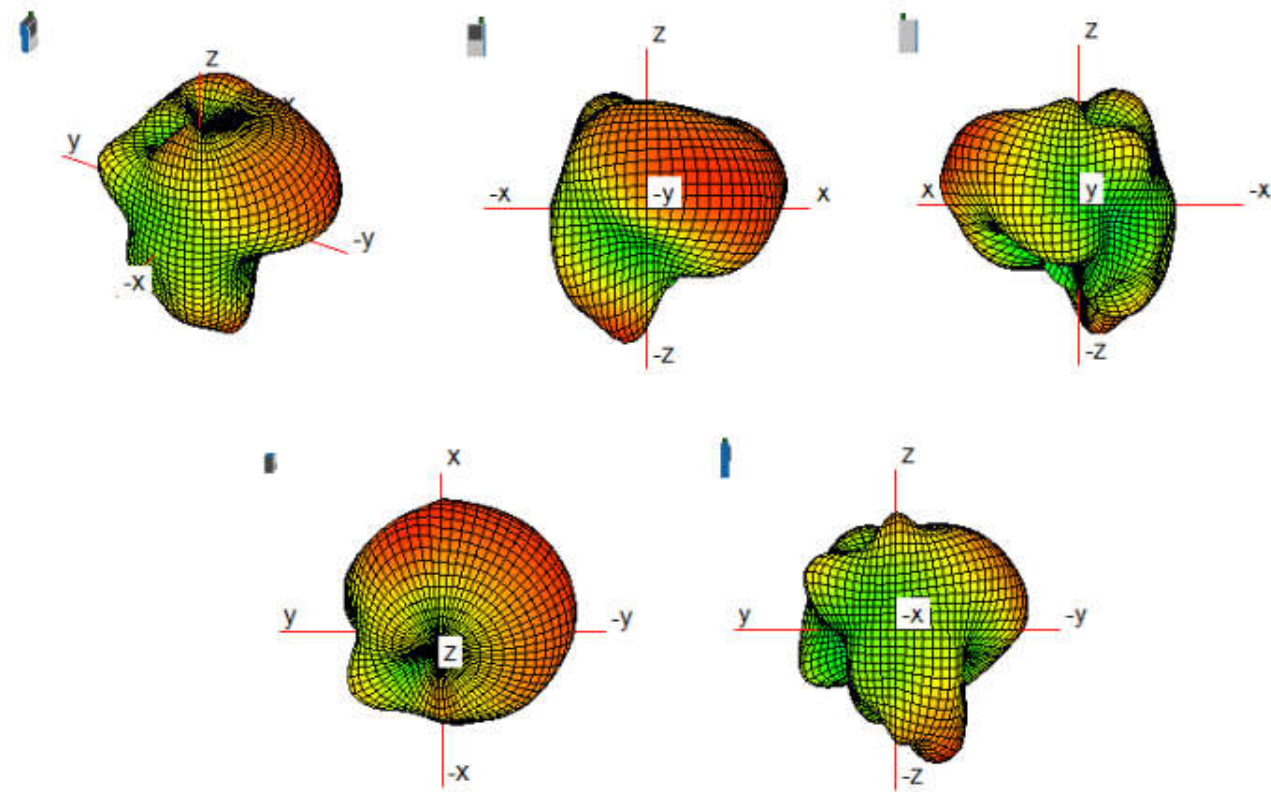
5280MHz



5500MHz

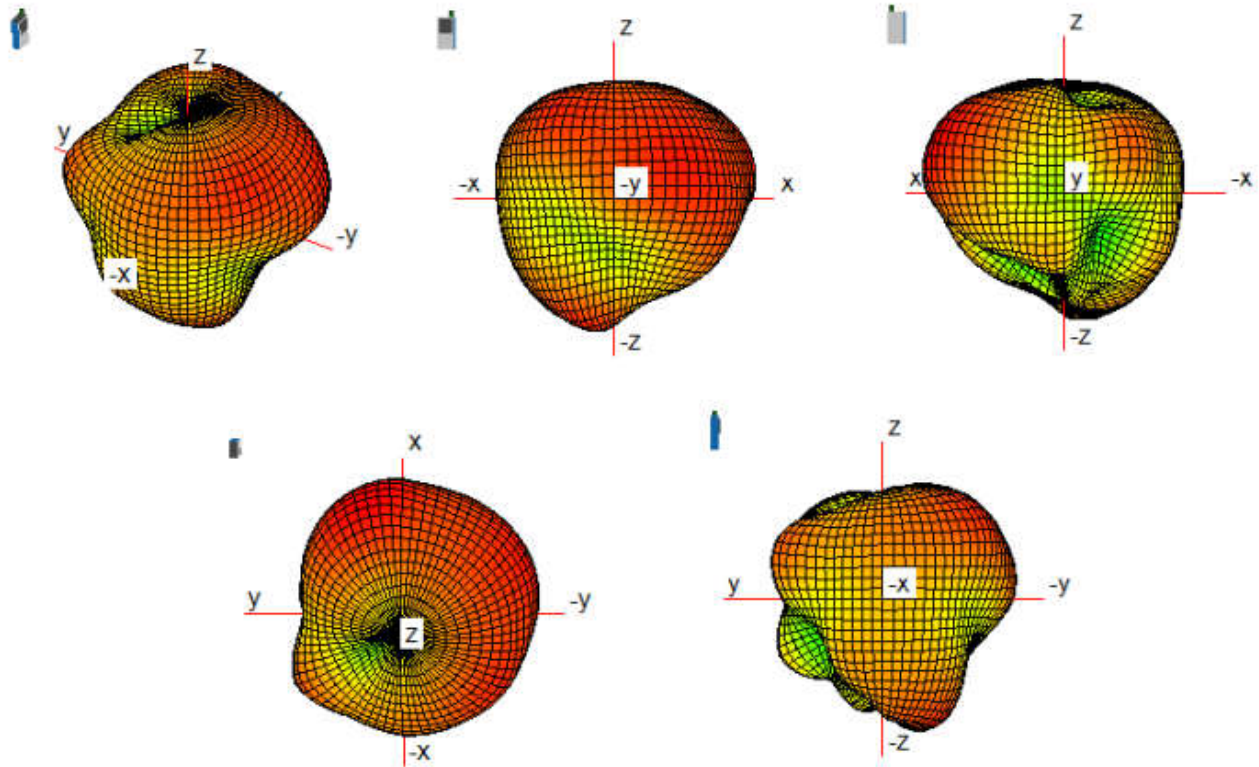


5780MHz

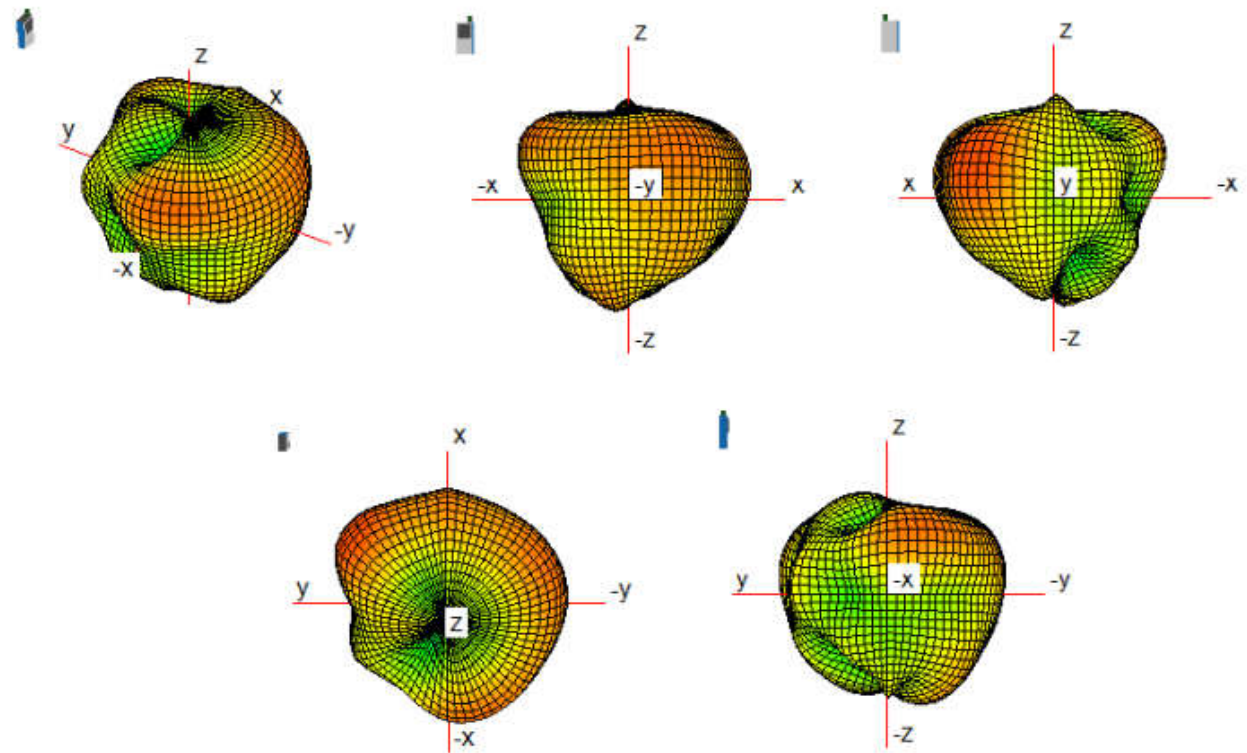


ANT5- WiFi 6E CH0

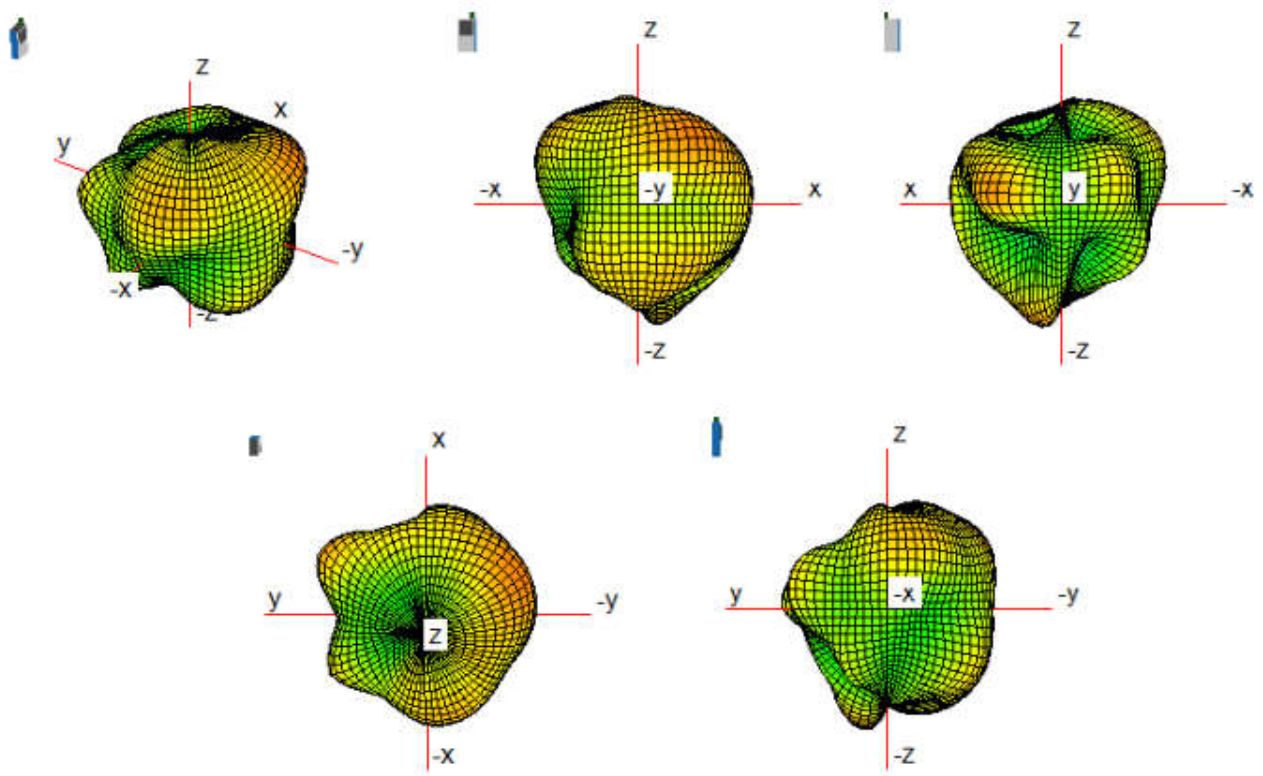
6000MHz



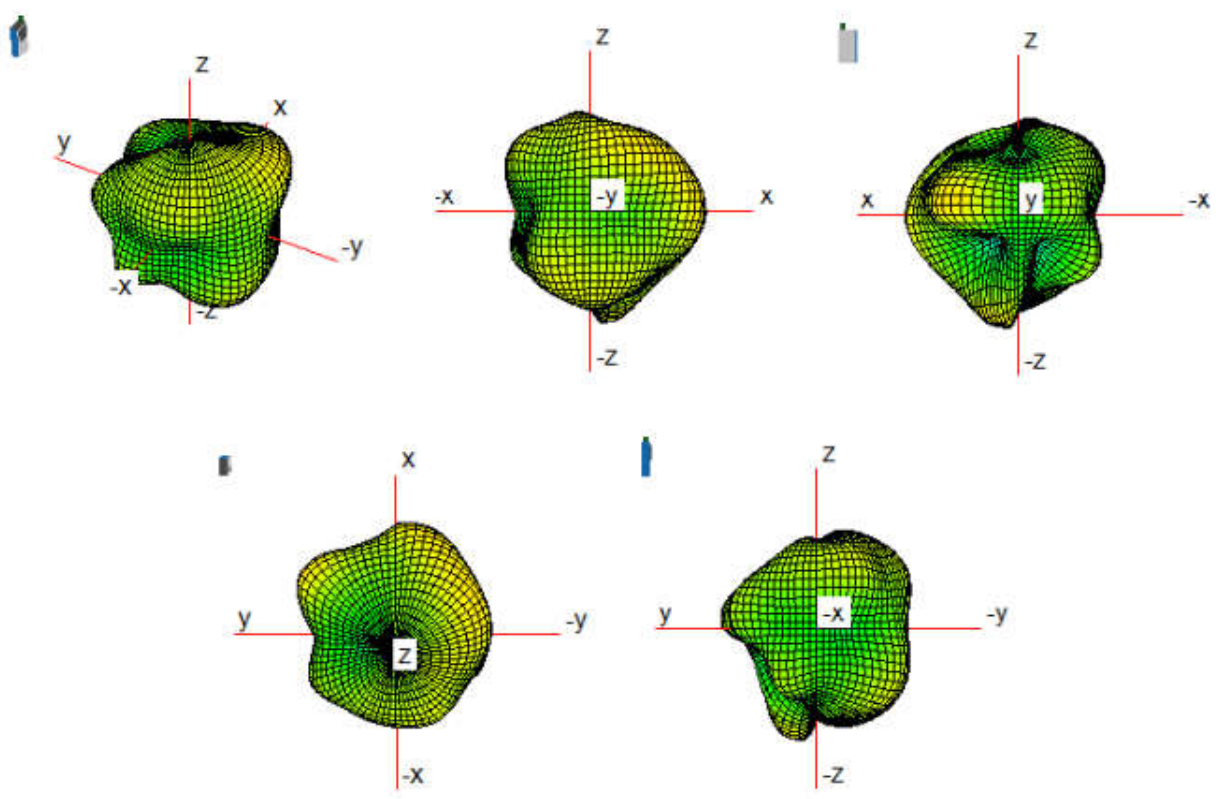
6500MHz



6800MHz

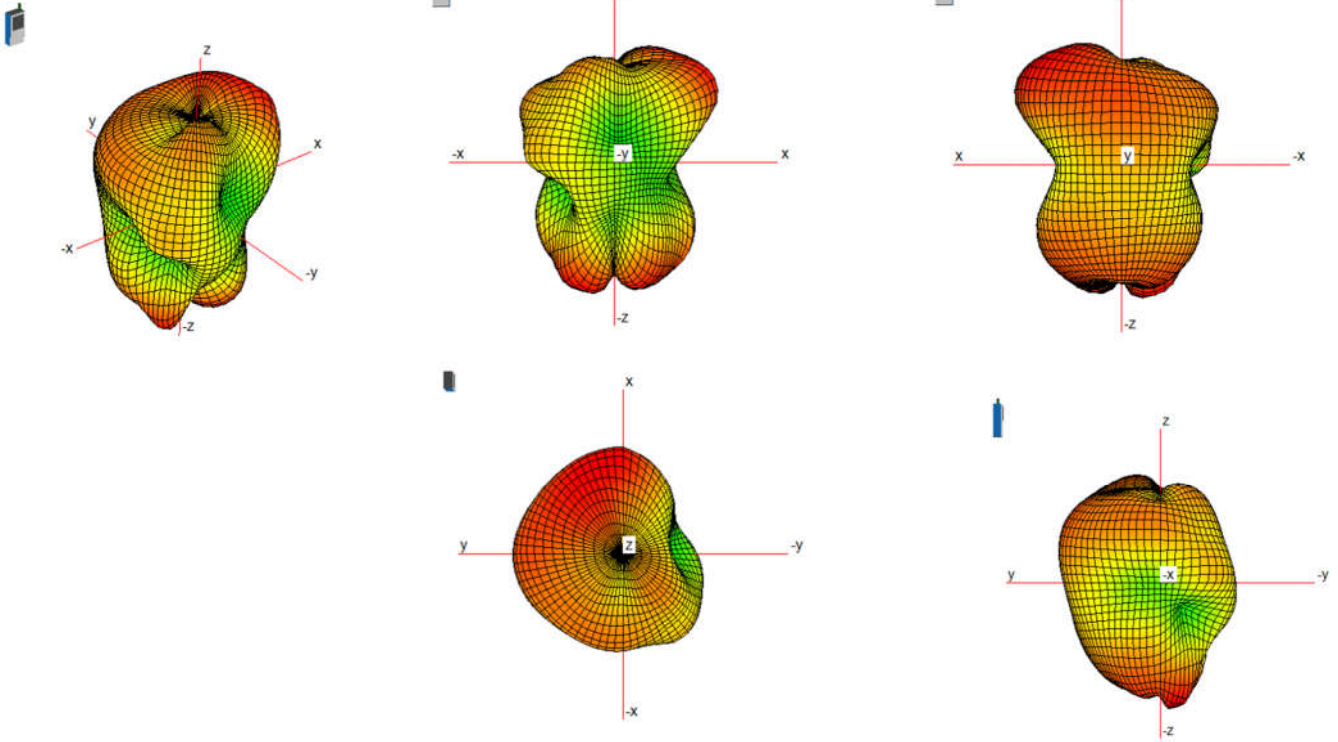


7000MHz

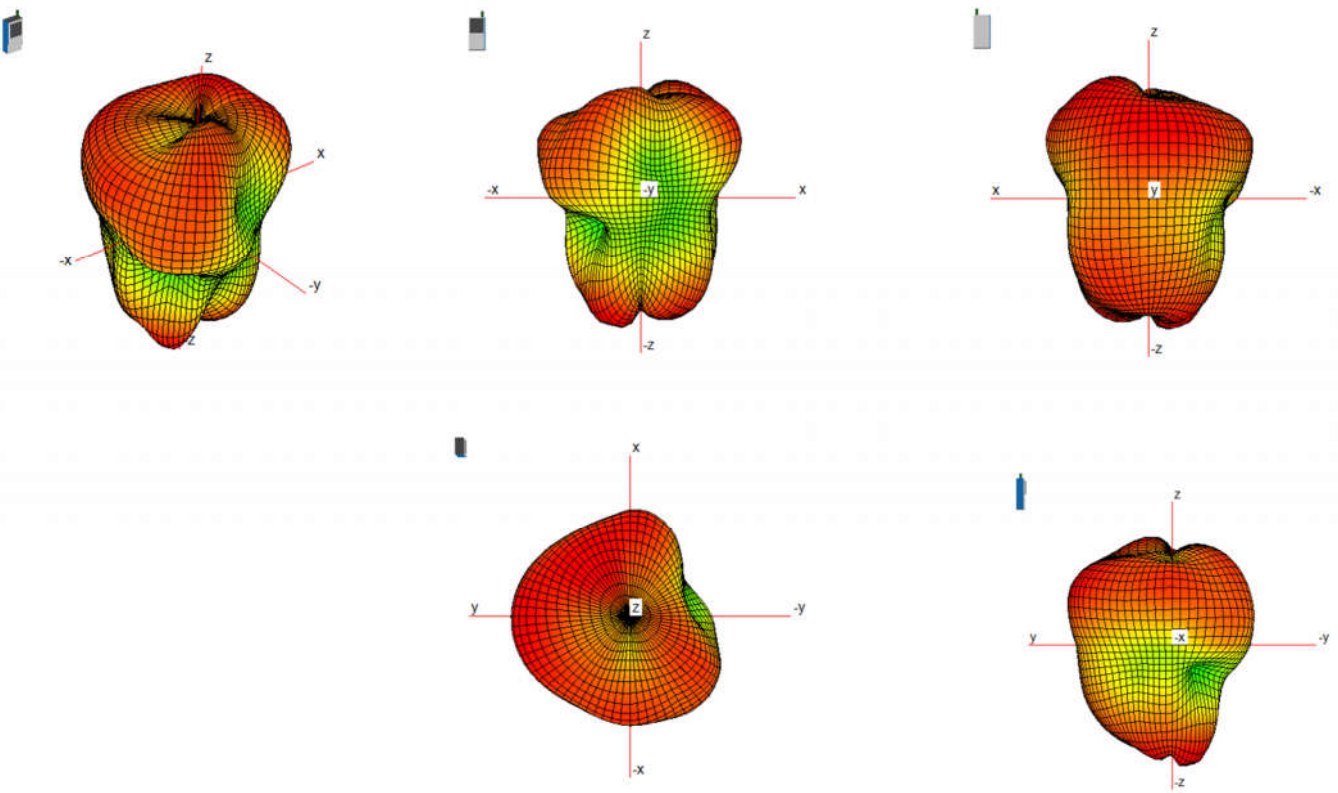


ANT7- UWB ANT-1

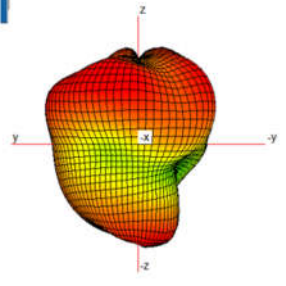
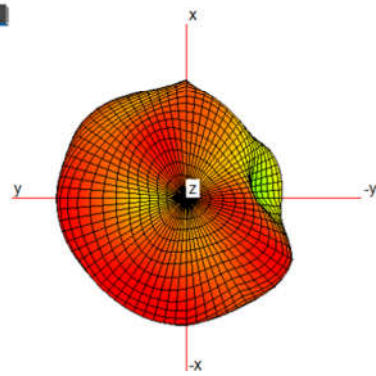
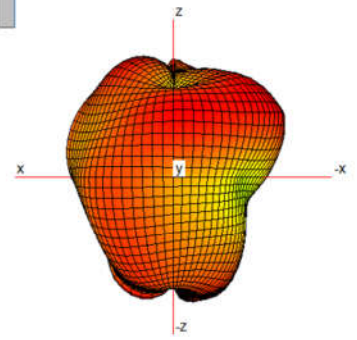
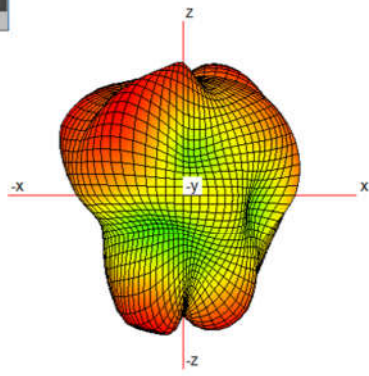
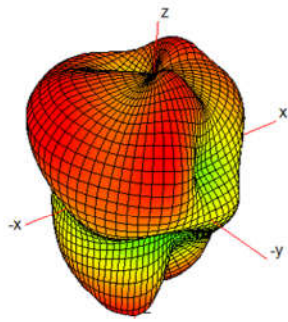
6300MHz



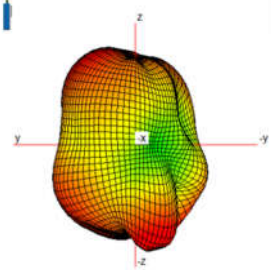
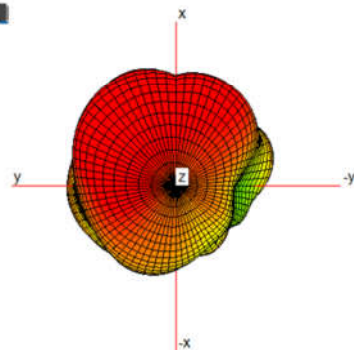
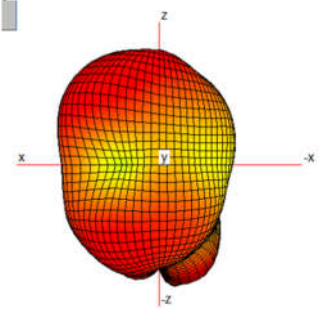
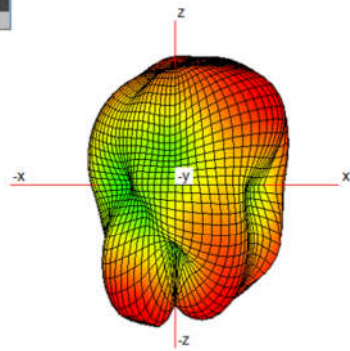
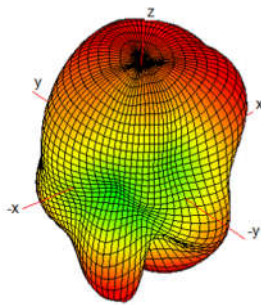
6500MHz



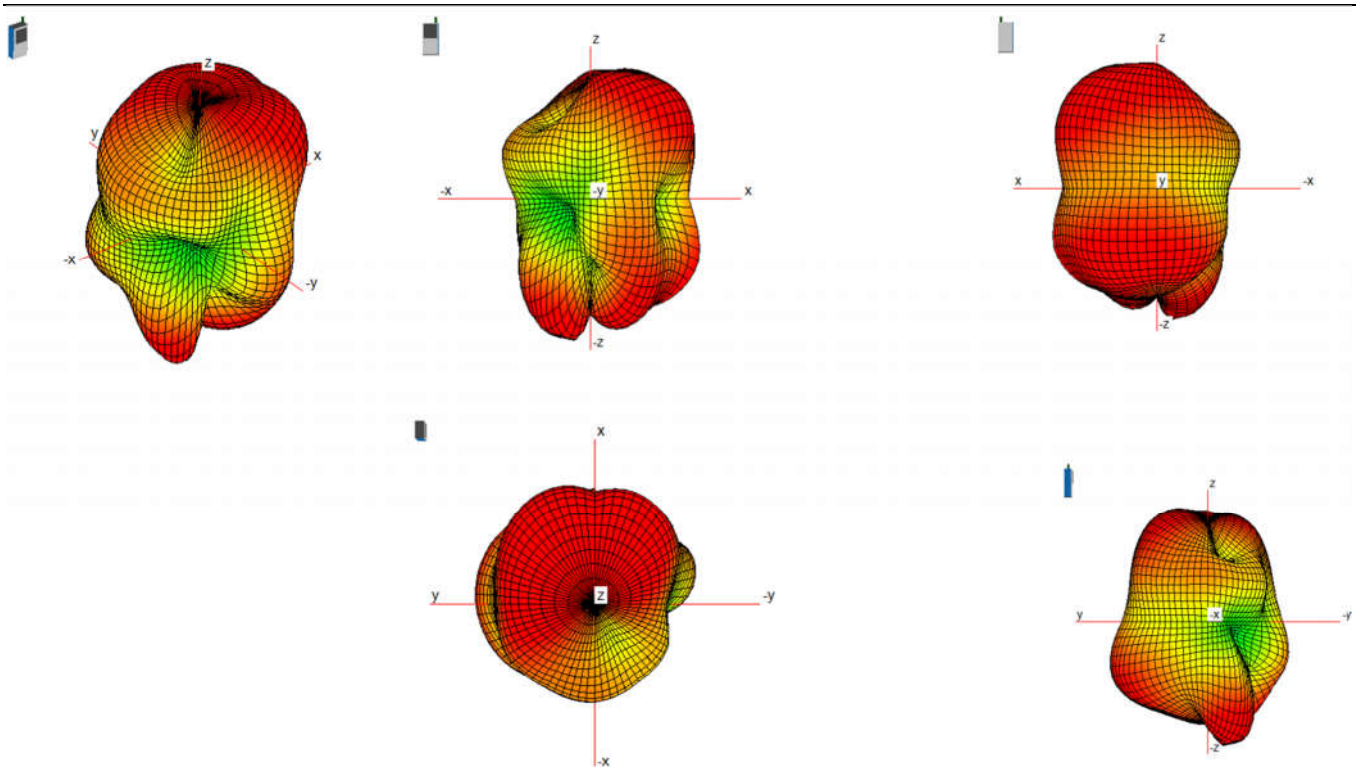
6700MHz



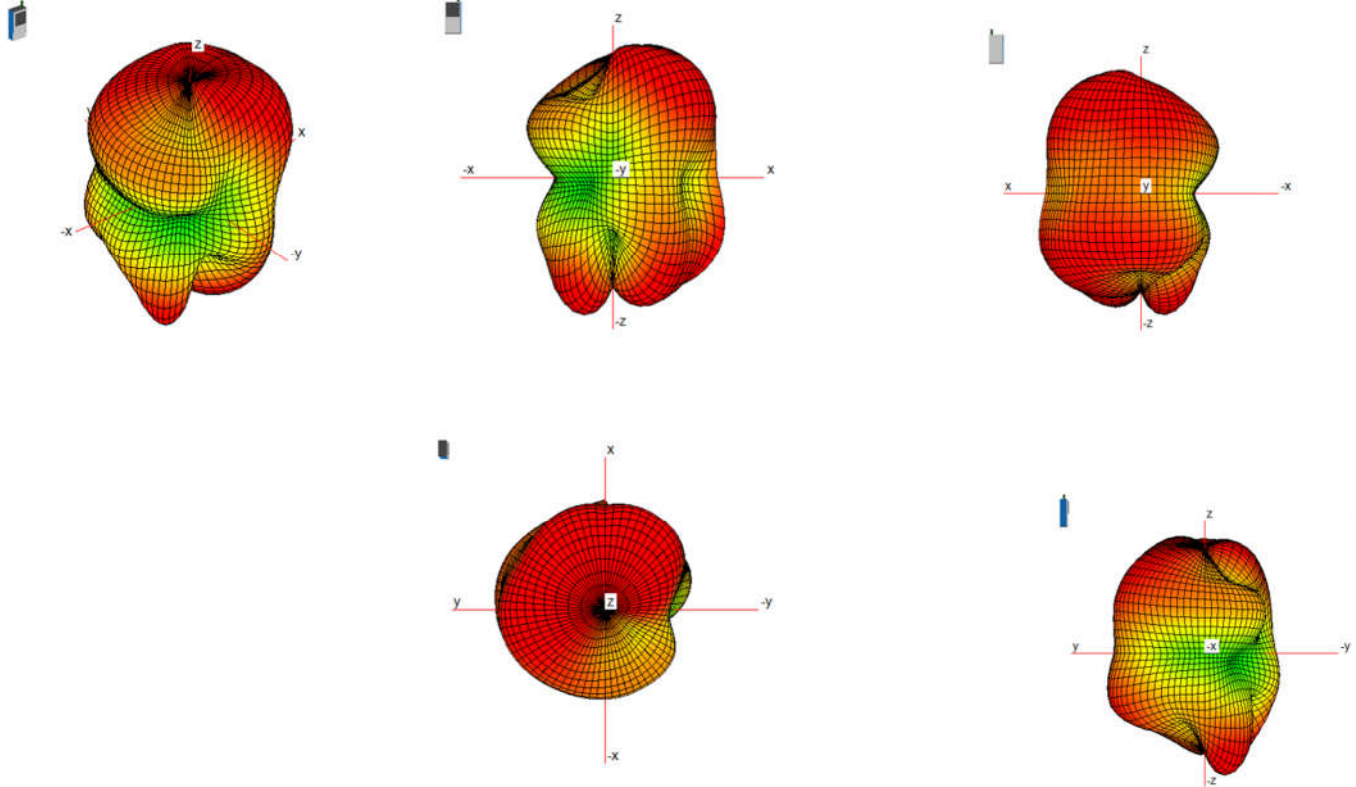
7800MHz



8000MHz

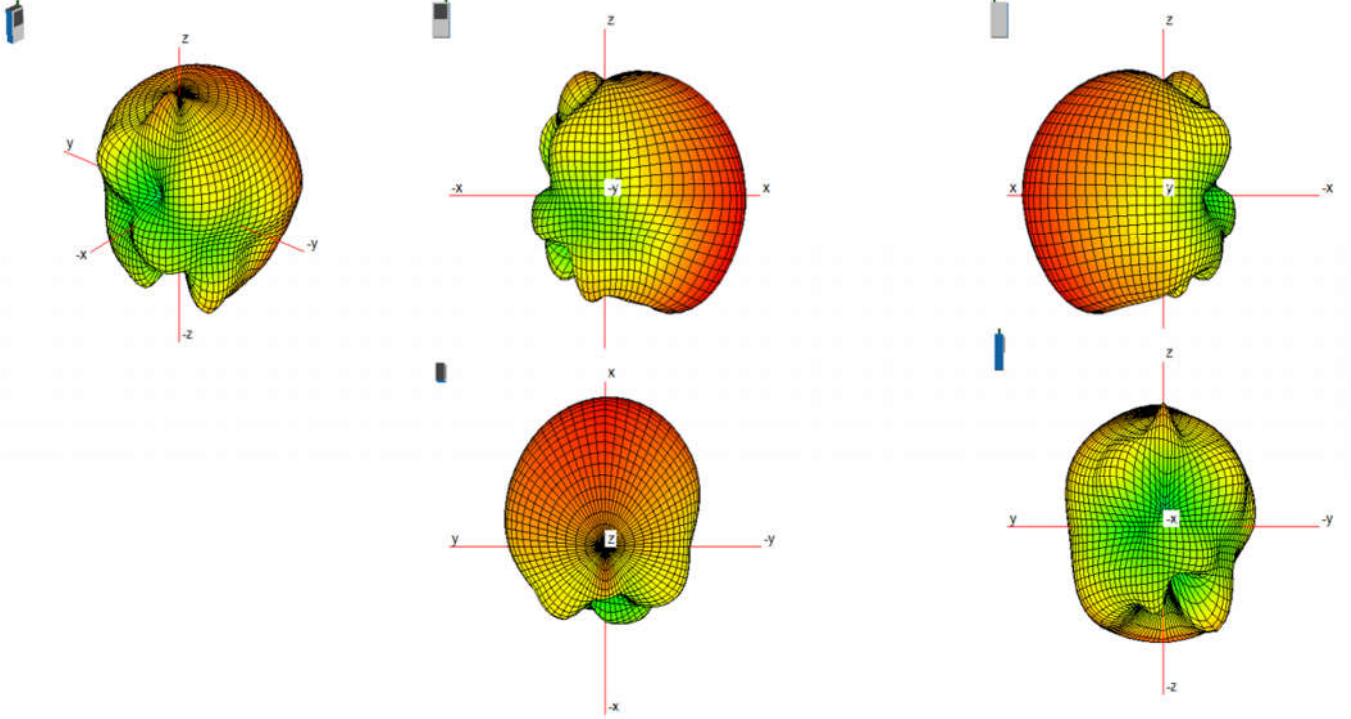


8200MHz

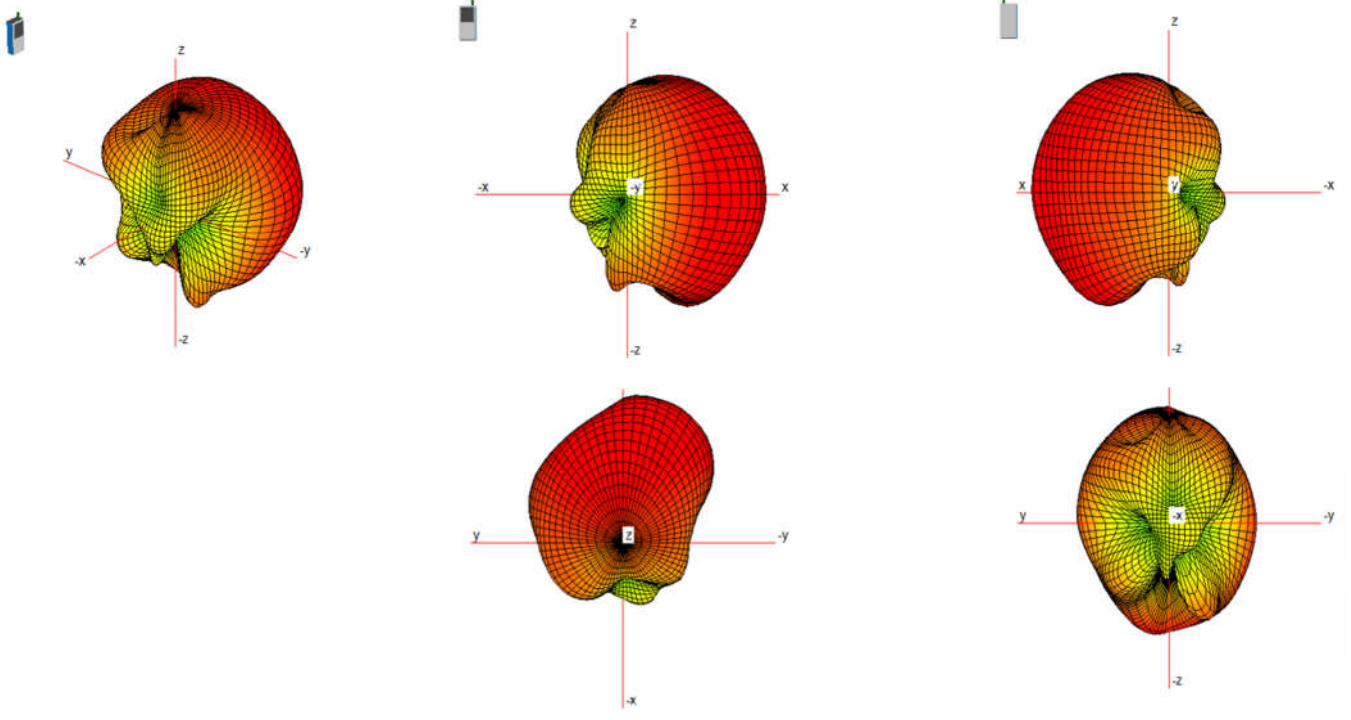


ANT9- UWB ANT-2

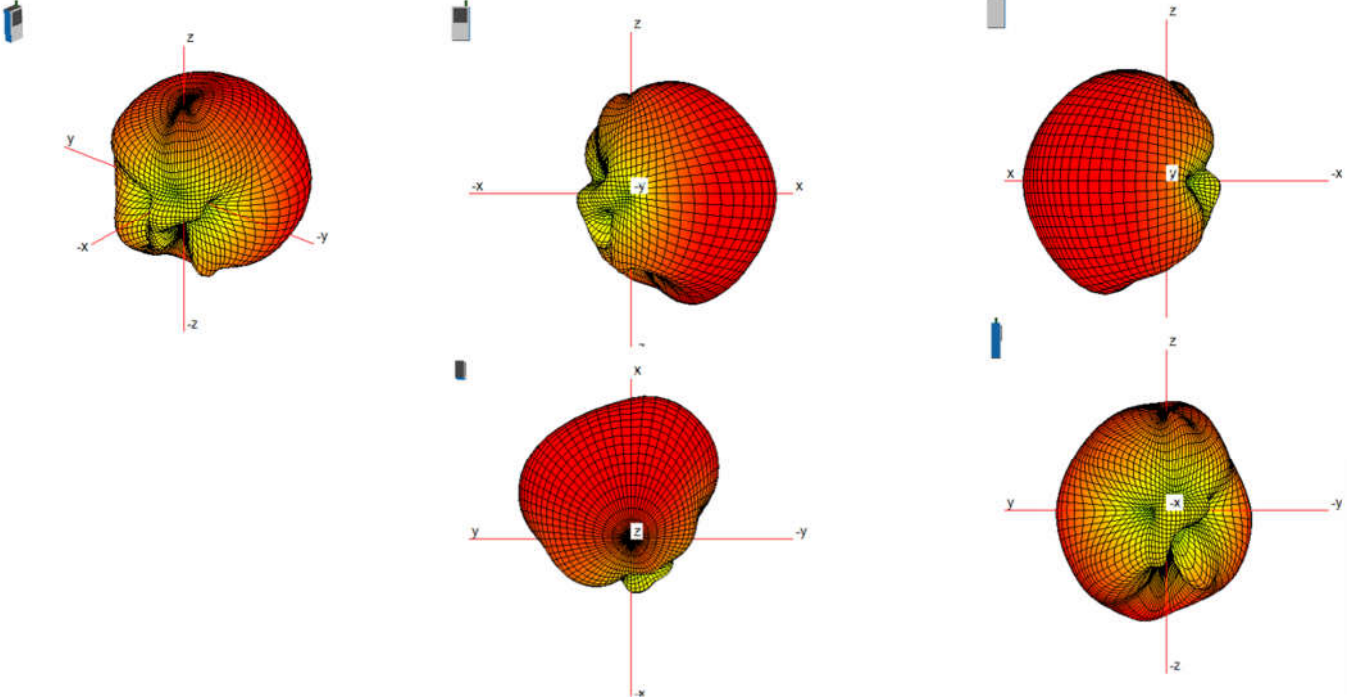
6300MHz



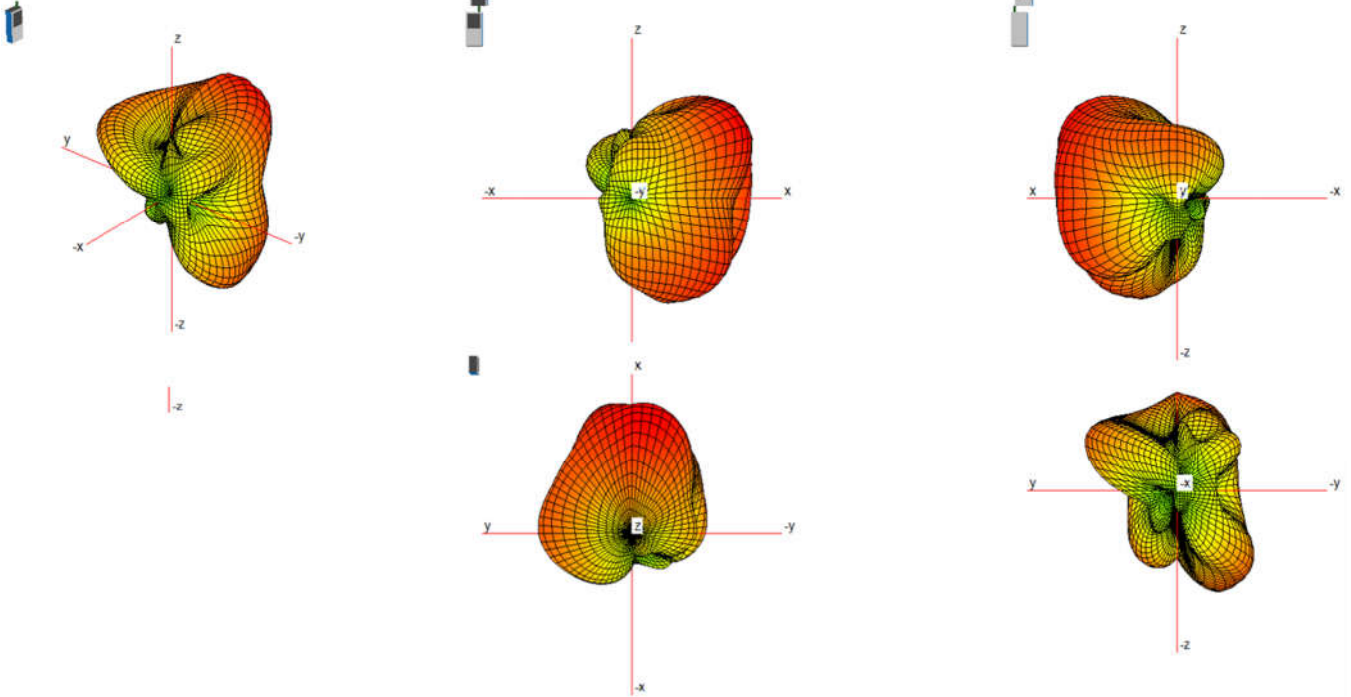
6500MHz



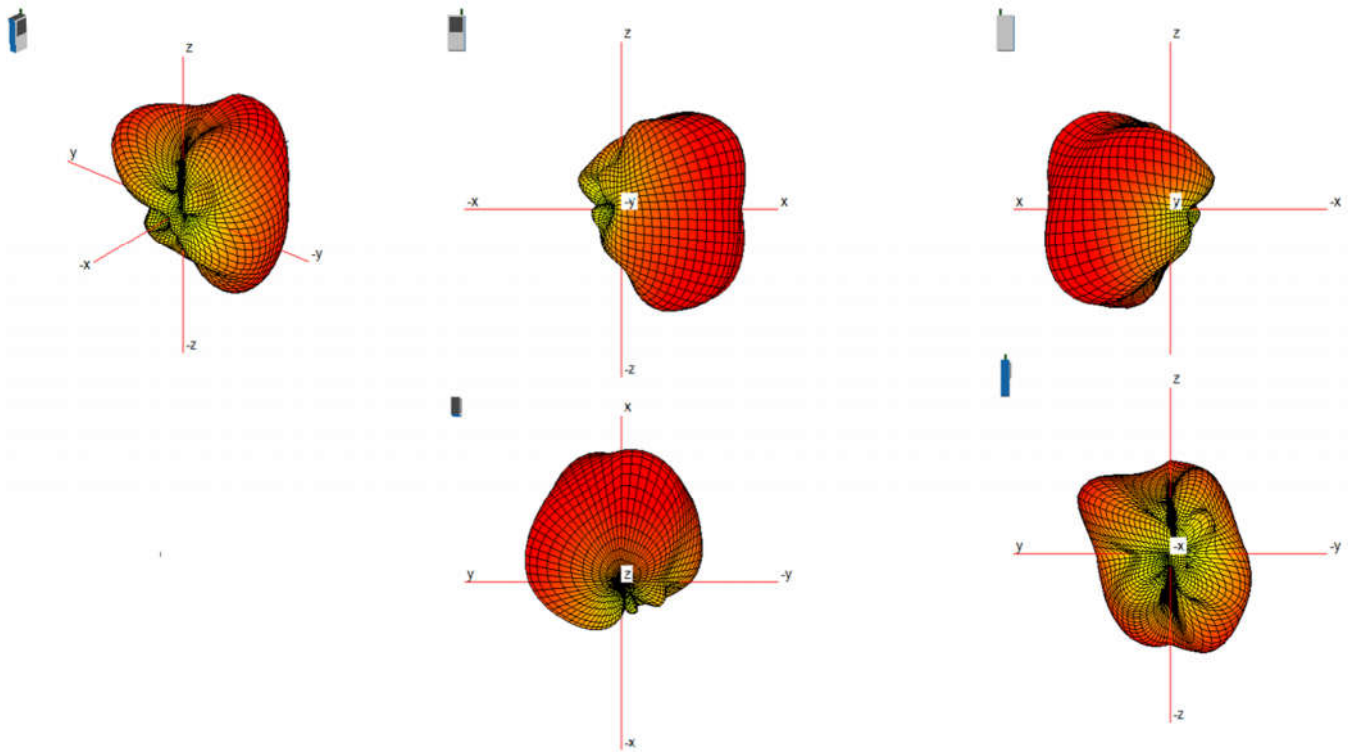
6700MHz



7800MHz



8000MHz



8200MHz

