
Antenna Reports

Company: Motorola Mobility LLC

Model name: XT2507-1

Issue date: 2025/03/05

Documented by: wang Peng

Antenna Summary Table

Check items	Information
Provided by lab	Motorola internal lab (GTS)
Manufacturer/ Brand name	Motorola
Model name (Part number)	Midframe
Test environment	Motorola Beijing RD team Lab with GTS2800 chamber
Test software	MaxSign Libra
Antenna detail info.	Show WLAN/BT/ NFC/WPT Rx, no WWAN ANT3: WiFi 2.4G (2.4~2.5GHz), PIFA type antenna. ANT4: WiFi 5G/6G (5.15~5.85GHz, 5.925~7.125GHz), LOOP type antenna. ANT5: WiFi 5G/6G (5.15~5.85GHz, 5.925~7.125GHz)), PIFA type antenna. ANT6: BT, WiFi 2.4G(2.4~2.5GHz),PIFA type antenna. NFC Antenna: Differential port to excite LDS coil + Ferrite sheet with dimension 23.7 mm *27.1mm * 0.12mm WLC antenna: Copper winding coil and dimension is 58mm x 58mm
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 data	Due data	Remark
GTS RayZone2800	October 23,2022	October 22,2025	Self-monitor monthly to ensure the variation within 0.5dbduring the cycle
R&S ZNB 8	October 17,2024	October 16,2025	N/A

WLAN+BT Antenna Gain:**Ant3**

GPS +BT/WLAN Peak Gain (dBi)			
2400~2483.5MHz	-5.9		

Ant4

WLAN Peak Gain (dBi)			
5150~5250MHz	-7.2	5470~5725MHz	-6.6
5250~5350MHz	-6.8	5725~5850MHz	-7.4
UNII_5	-7	UNII_7	-7
UNII_6	-7.2	UNII_8	-7

Ant5

WLAN Peak Gain (dBi)			
5150~5250MHz	-7.7	5470~5725MHz	-7.5
5250~5350MHz	-7.6	5725~5850MHz	-7.4
UNII_5	-7	UNII_7	-6.8
UNII_6	-7.2	UNII_8	-7

Ant6

BT/WLAN Peak Gain (dBi)			
2400~2483.5MHz	-6.8		

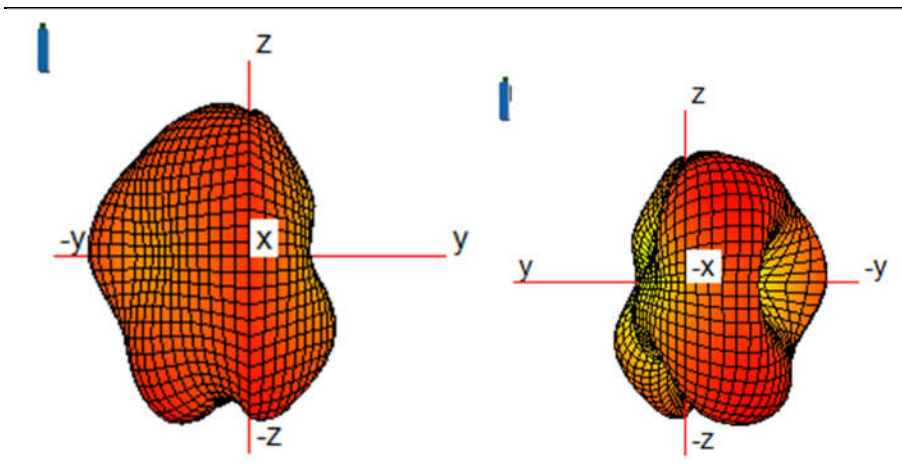
Antenna Test data:**ANT3**

Antenna model name: Insert molding metal

Antenna type: PIFA

(Rear view– Front view)

WIFI 2.4G (2450 MHz)



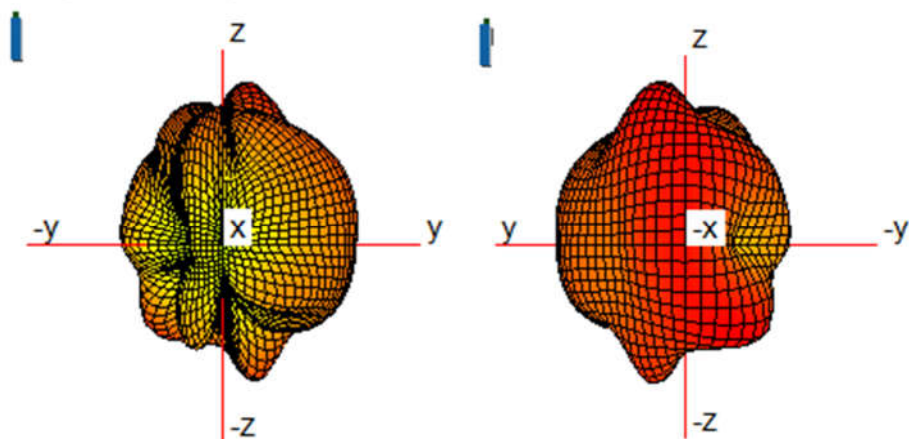
ANT4

Antenna model name: Insert molding metal

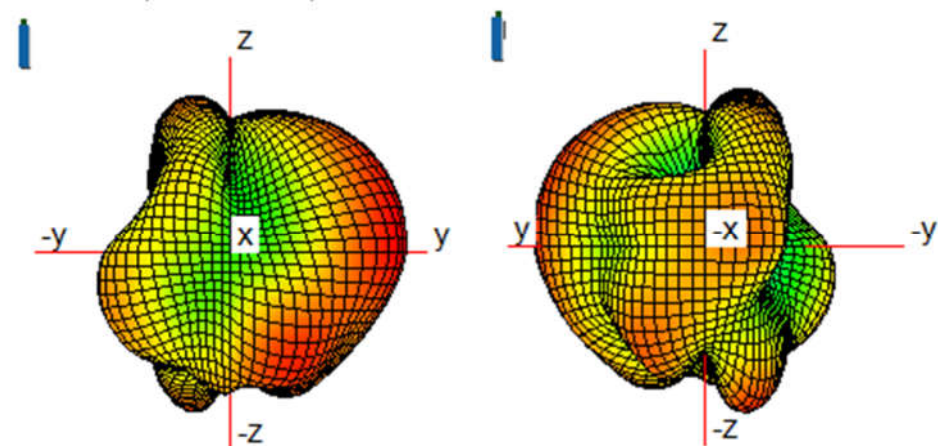
Antenna type: LOOP

(Rear view– Front view)

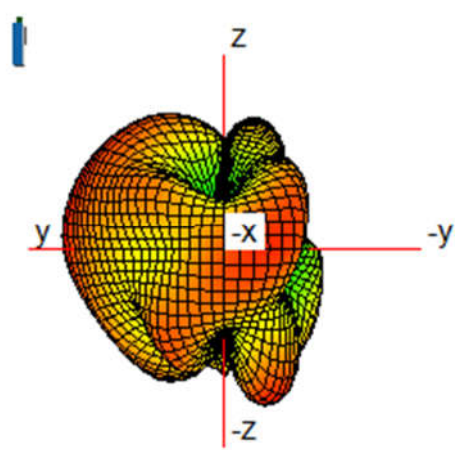
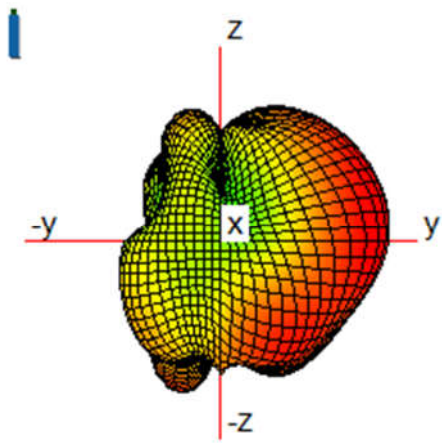
NR (3300 MHz)



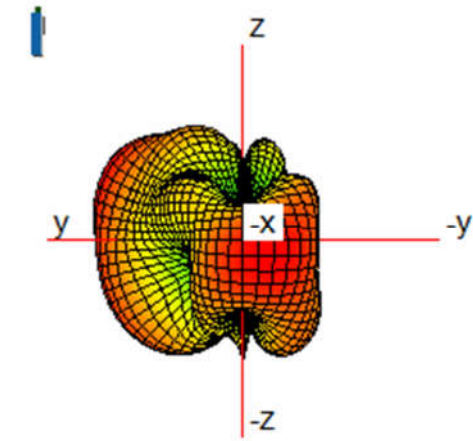
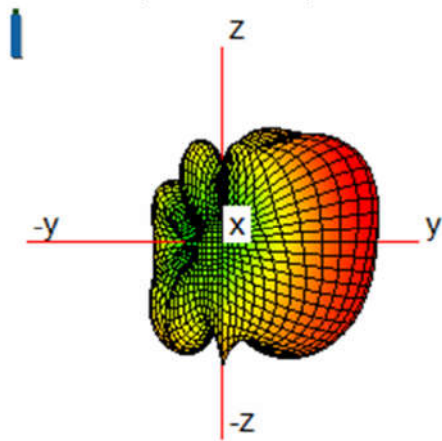
WIFI 5G (5200 MHz)



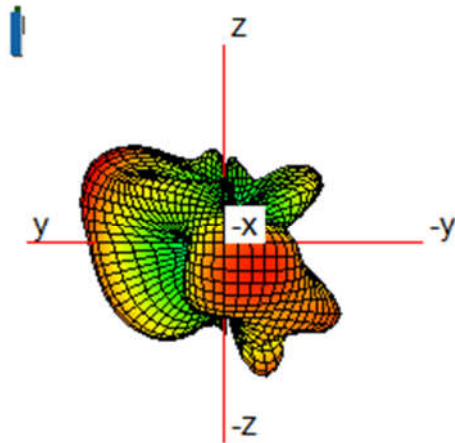
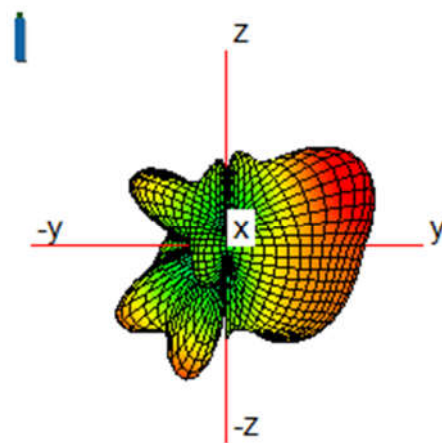
WIFI 5G (5300 MHz)



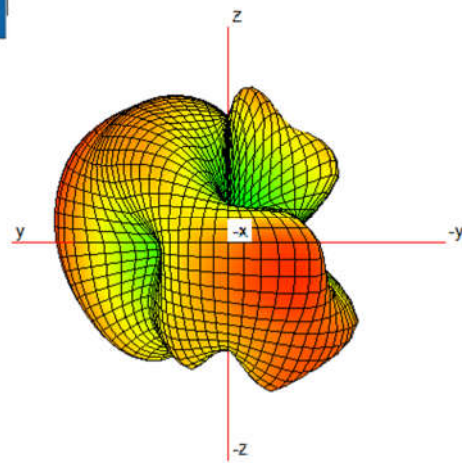
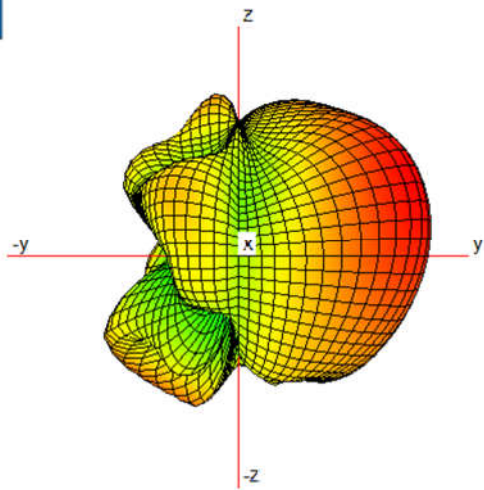
WIFI 5G (5500 MHz)



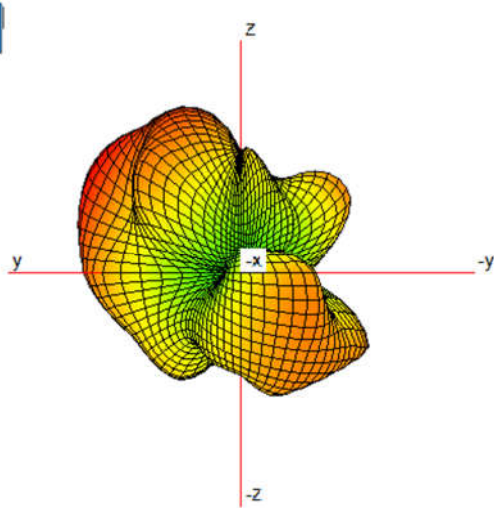
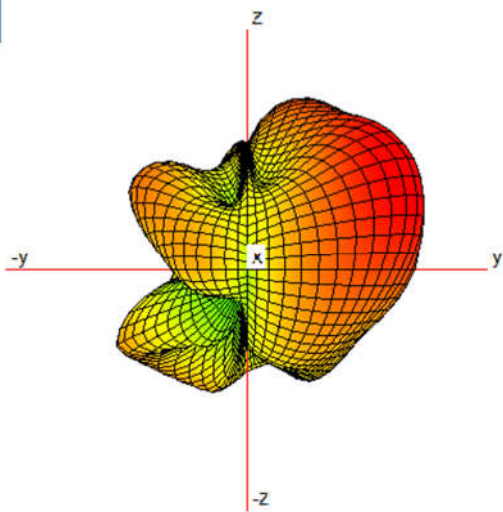
WIFI 5G (5800 MHz)



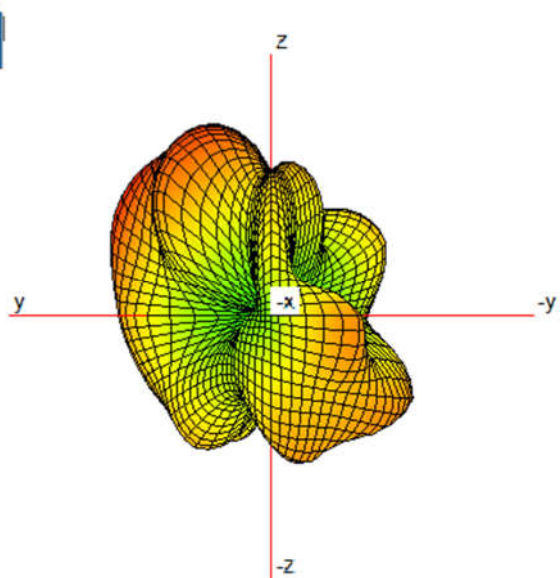
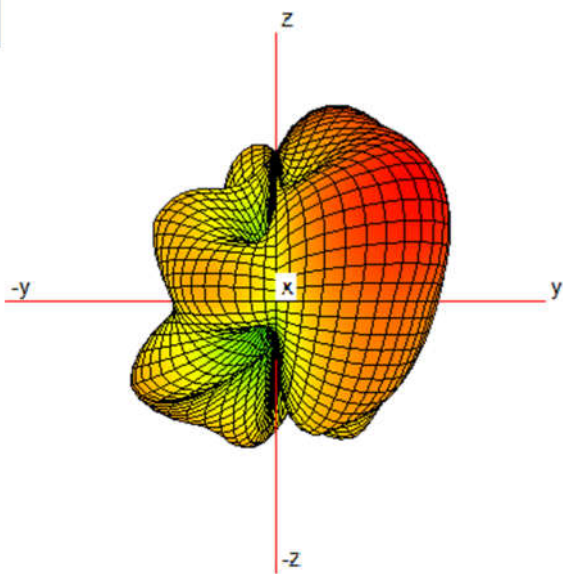
WIFI 6E (UNII-5)



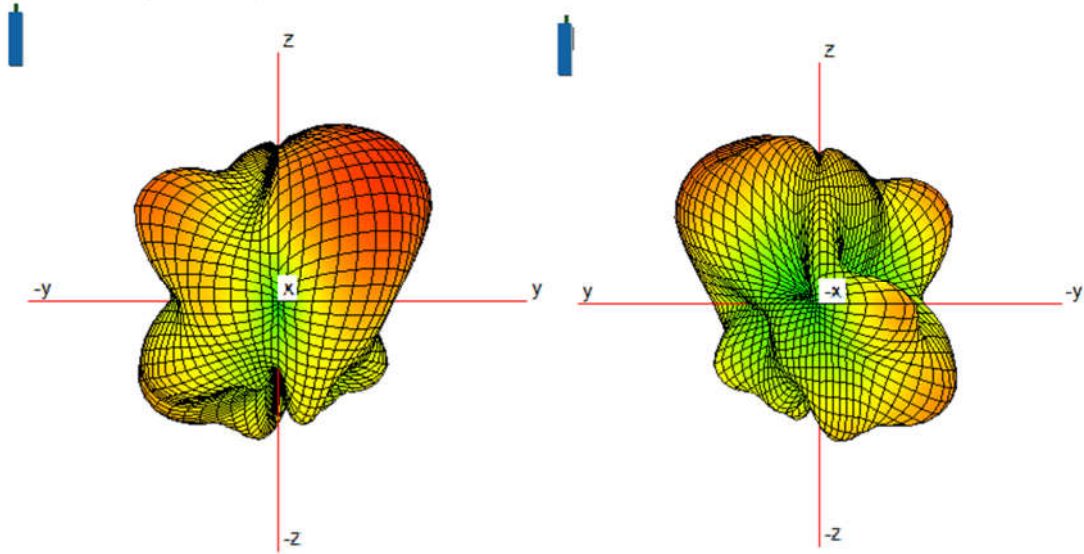
WIFI 6E (UNII-6)



WIFI 6E (UNII-7)



WIFI 6E (UNII-8)



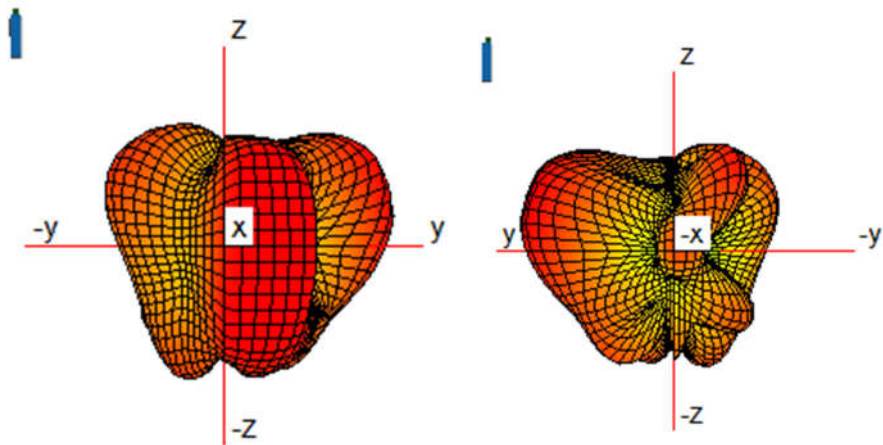
ANT5

Antenna model name: Insert molding metal

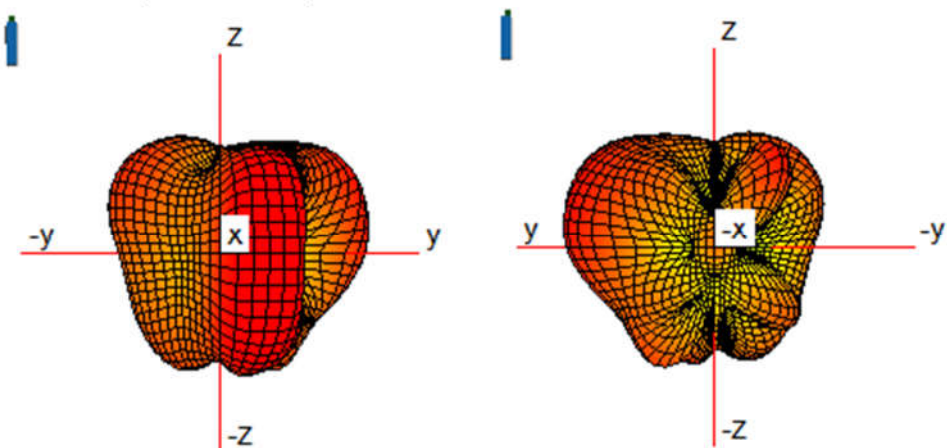
Antenna type: PIFA

(Rear view– Front view)

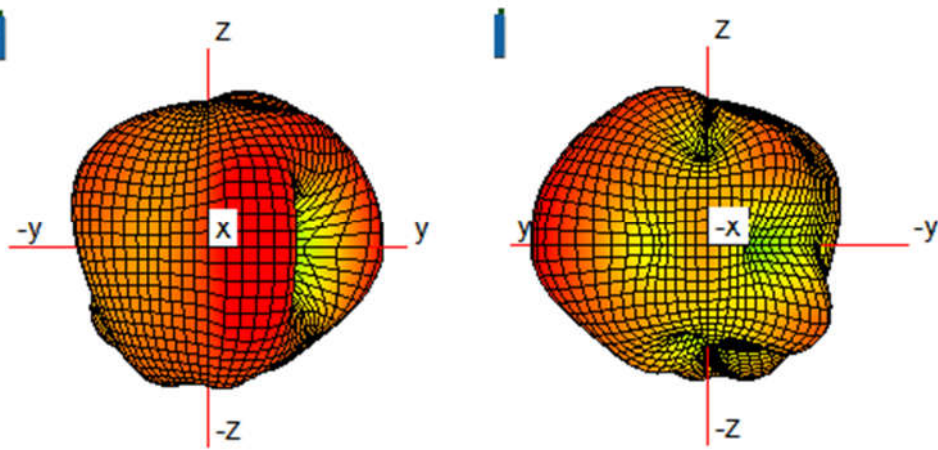
WIFI 5G (5200 MHz)



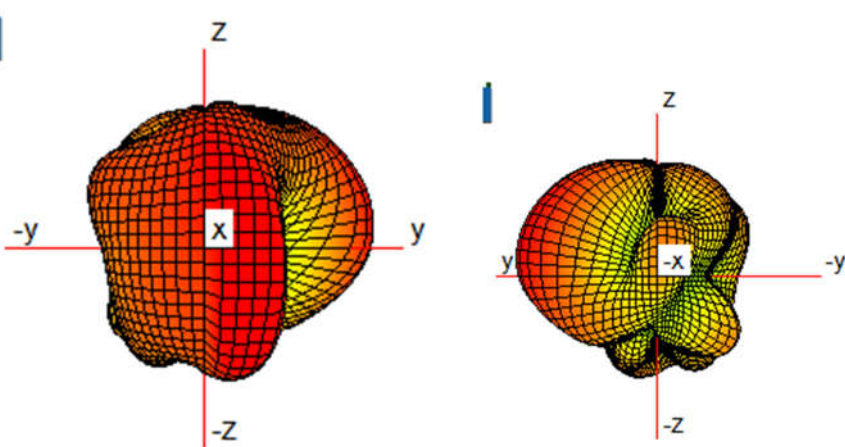
WIFI 5G (5300 MHz)



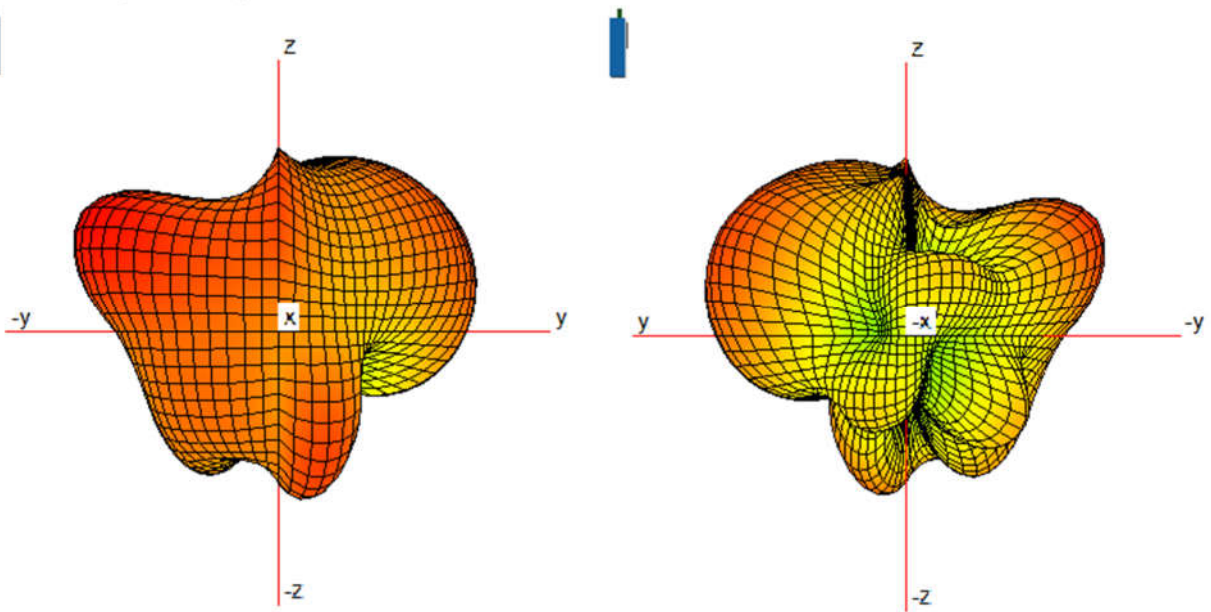
WIFI 5G (5500 MHz)



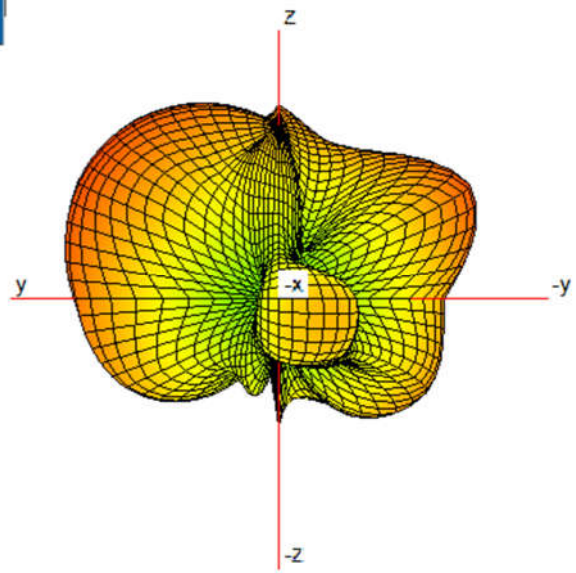
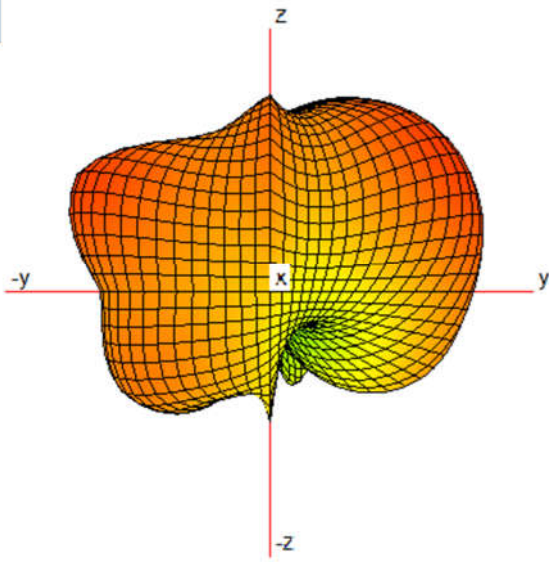
WIFI 5G (5800 MHz)



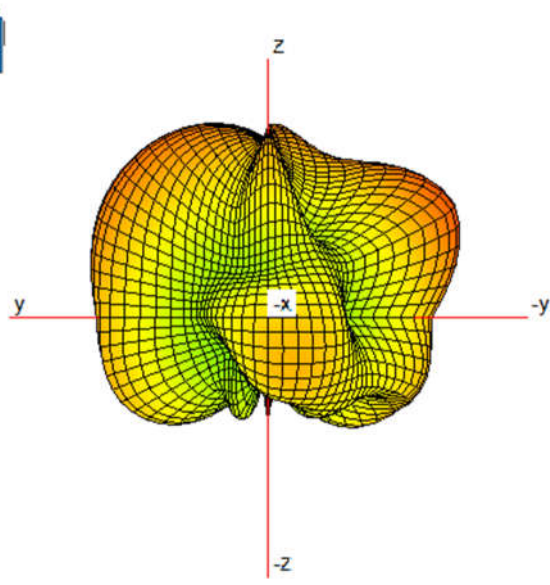
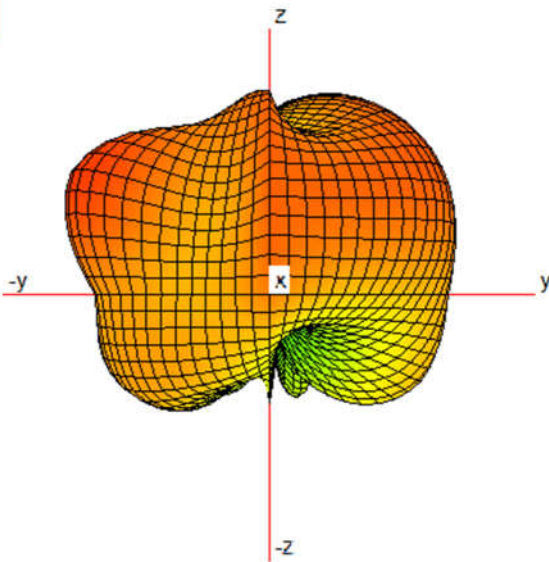
WIFI 6E (UNII-5)



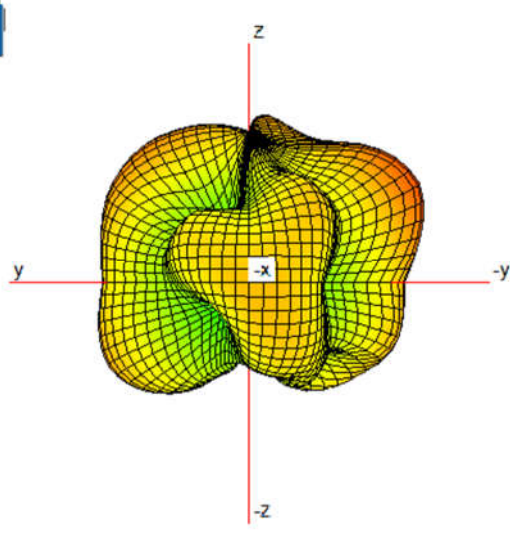
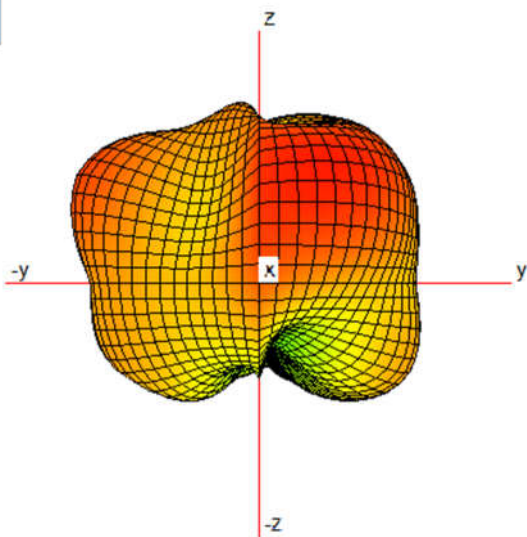
WIFI 6E (UNII-6)



WIFI 6E (UNII-7)



WIFI 6E (UNII-8)



ANT6

Antenna model name: Insert molding metal

Antenna type: PIFA

(Rear view– Front view)

WIFI 2.4G (2450 MHz)

