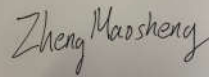# Antenna Reports

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

Documented by:___BJ ANT_____

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 Beijing RD team Lab with GTS2800 chamber
Test software	MaxSign Libra
List of calibrated test equipment	GTS2800 with calibrated date: On August 9,2022
Antenna detail info.	ANT4: WiFi2.4G / 5G / 6E antenna (2.4~2.5GHz, 5.15~7.125GHz), IFA type antenna. ANT5: UHB / WiFi 5G / 6E antenna (3.3~4.2GHz, 5.15~7.125GHz), IFA type ANT6: WiFi 2.4G / GPS L5 antenna (2.4~2.5GHz, 1.17645GHz), IFA type NFC Antenna: Differential port to excite FPC coil + Ferrite sheet with dimension 56 mm *53mm * 0.3mm WPC: 111~148KHz,Coil type, 56 mm *50mm
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.
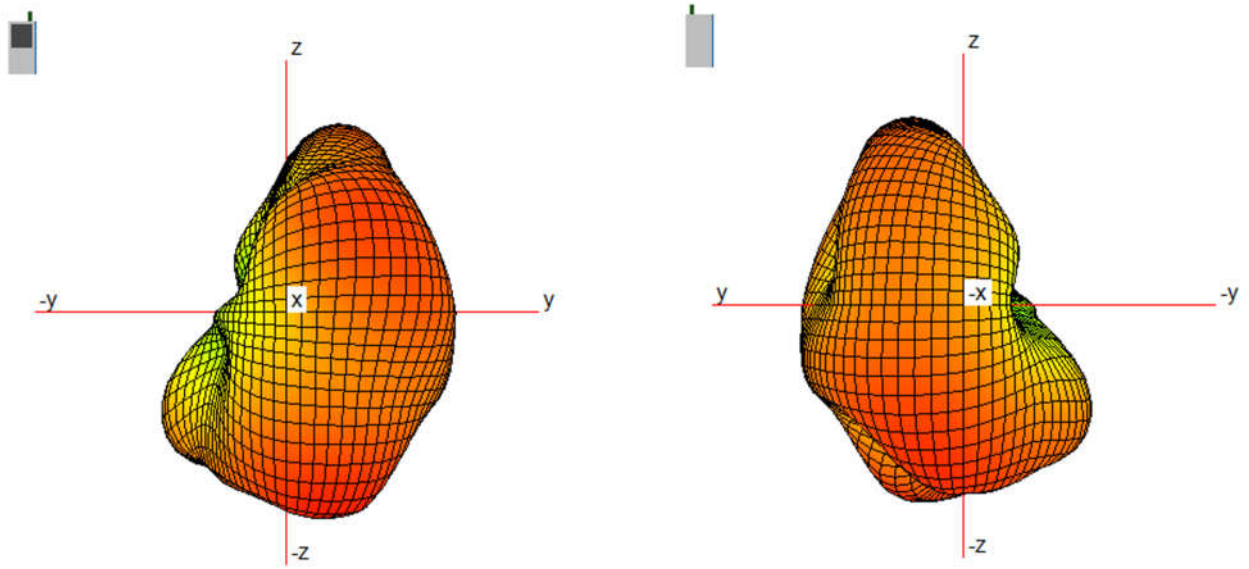
Antenna Test data:

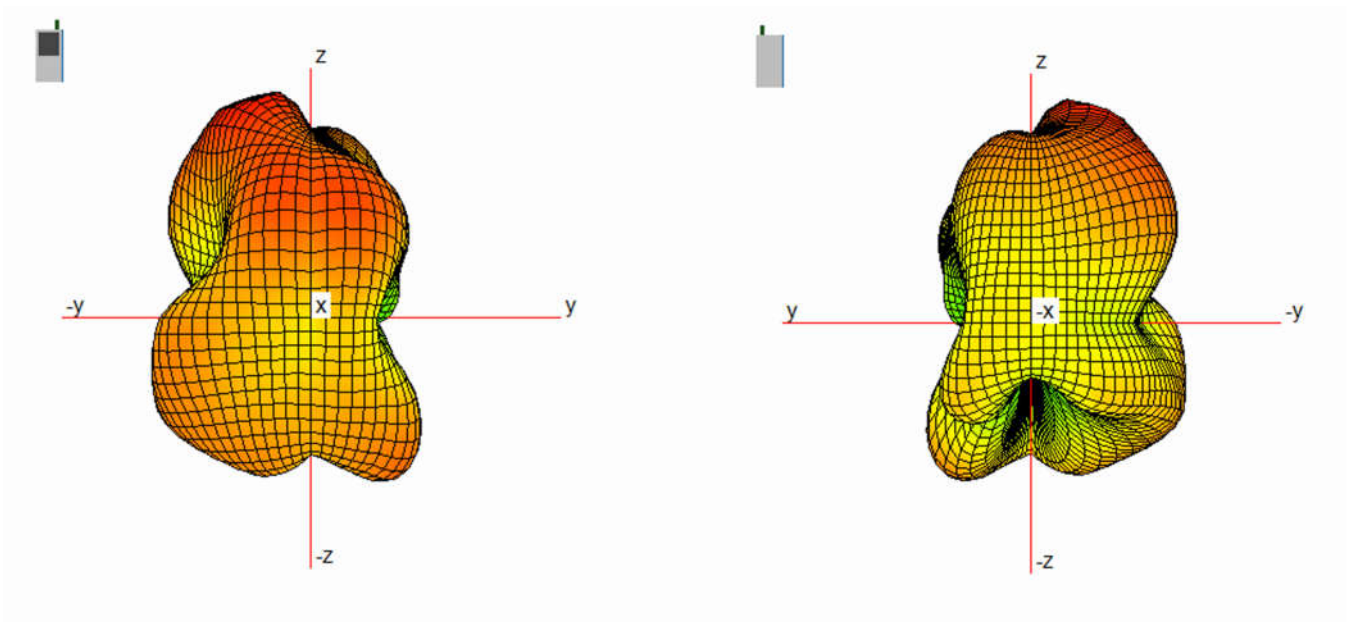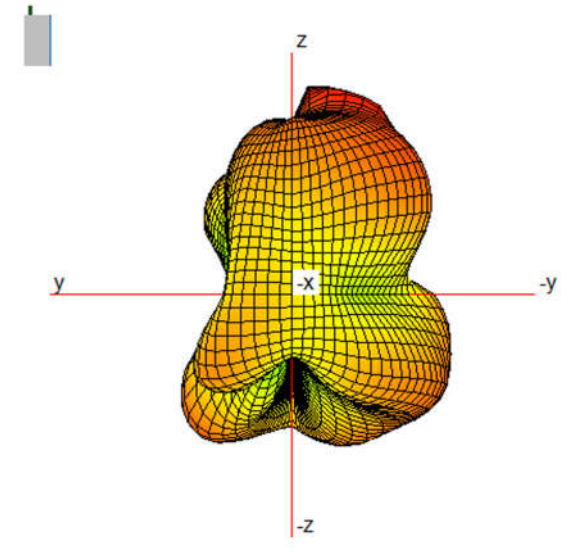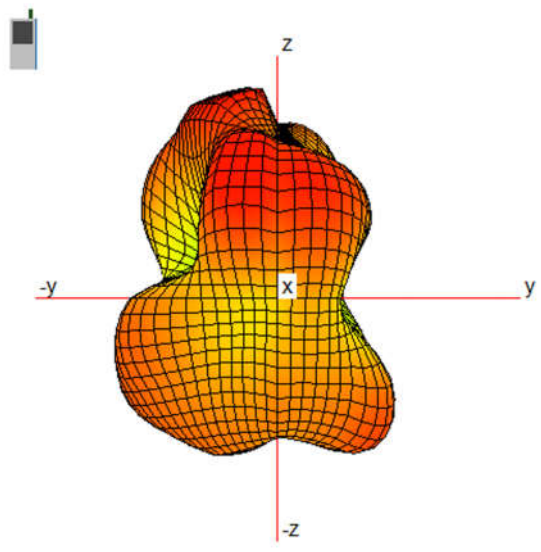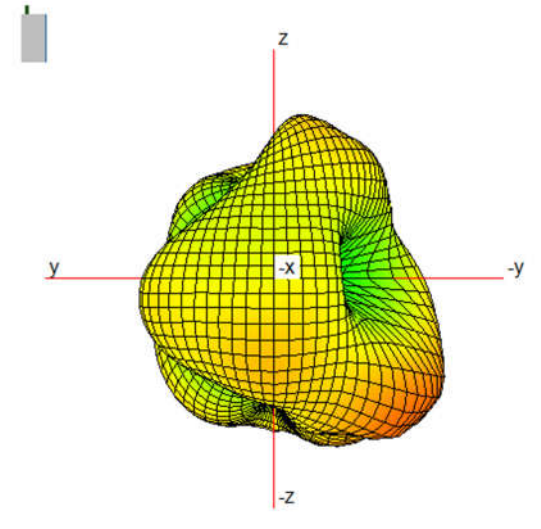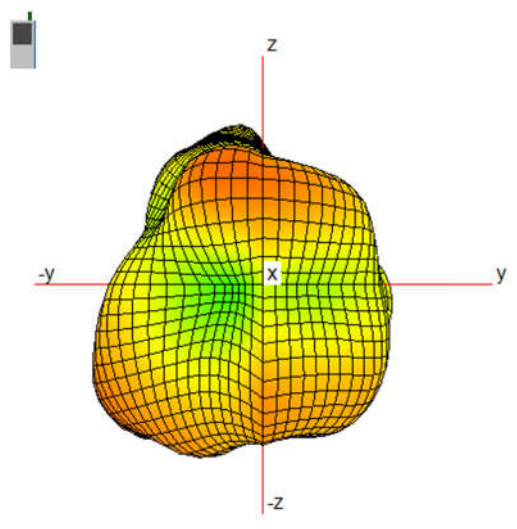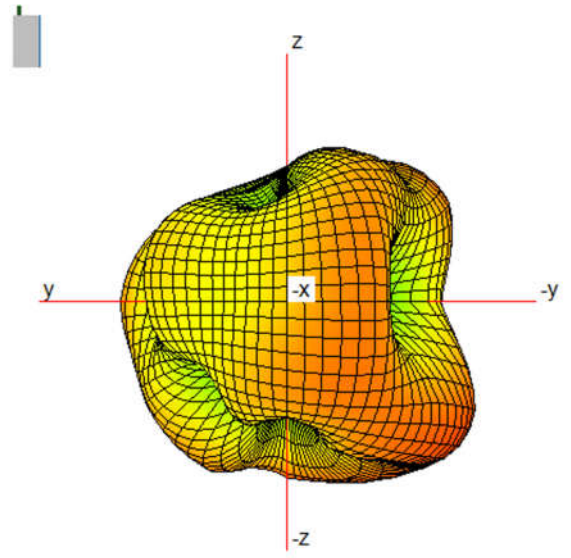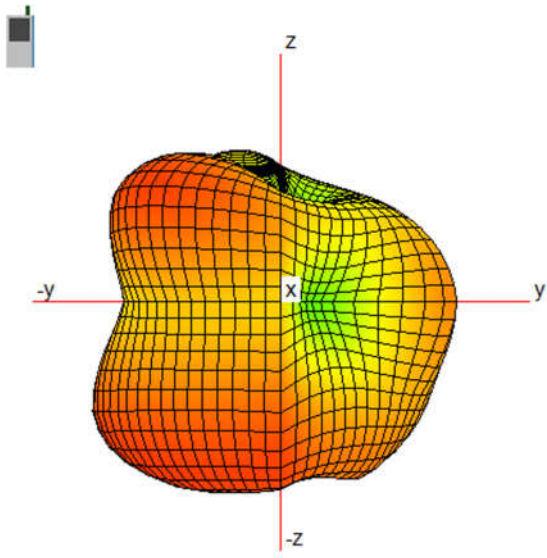| Antenna Type /Gian 2.4G	<2400MHz~2483.5MHz> <Ant4>: IFA Antenna with gain: -6.6 dBi <Ant6>: IFA Antenna with gain: -6.8 dBi
Antenna Type /Gian 5G	<5150MHz~5250MHz> <Ant4>: IFA Antenna with gain: -6.38 dBi <Ant5>: IFA Antenna with gain: -4.8 dBi <5250MHz~5350MHz> <Ant4>: IFA Antenna with gain: -6.5 dBi <Ant5>: IFA Antenna with gain: -4.2 dBi <5470MHz~5725MHz> <Ant4>: IFA Antenna with gain: -5.83 dBi <Ant5>: IFA Antenna with gain: -5.2 dBi <5725MHz~5850MHz> <Ant4>: IFA Antenna with gain: -5.35 dBi <Ant5>: IFA Antenna with gain: -4.5 dBi
Antenna Type /Gian 6E	<5925MHz~6425MHz> <Ant4>: IFA Antenna with gain: -8.5 dBi <Ant5>: IFA Antenna with gain: -5.5 dBi <6425MHz~6525MHz> <Ant4>: IFA Antenna with gain: -8.5 dBi <Ant5>: IFA Antenna with gain: -5.5 dBii <6525MHz~6875MHz> <Ant4>: IFA Antenna with gain: -8.5 dBi <Ant5>: IFA Antenna with gain: -5.5 dBi <6875MHz~7125MHz> <Ant4>: IFA Antenna with gain: -8.5 dBi <Ant5>: IFA Antenna with gain: -5.5 dBi

ANT4 Gain Plot

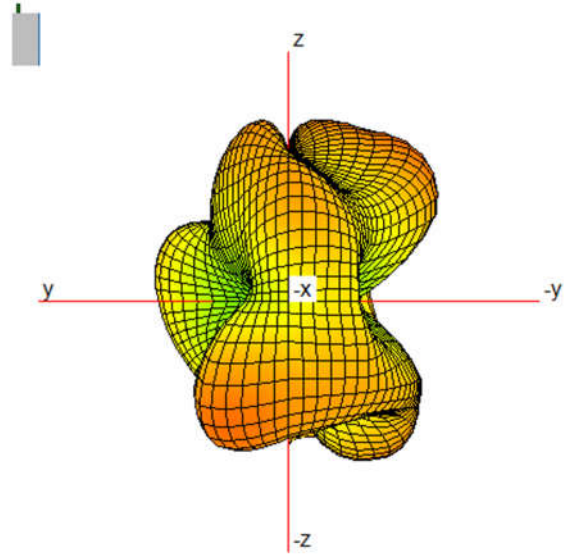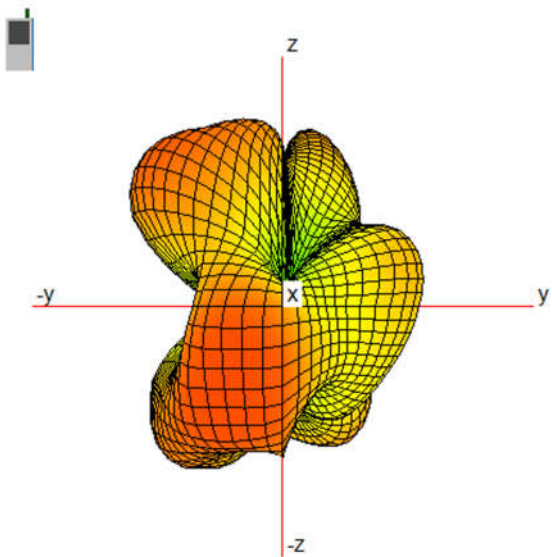(Rear view– Front view)

WIFI 2.4G (2450 MHz)
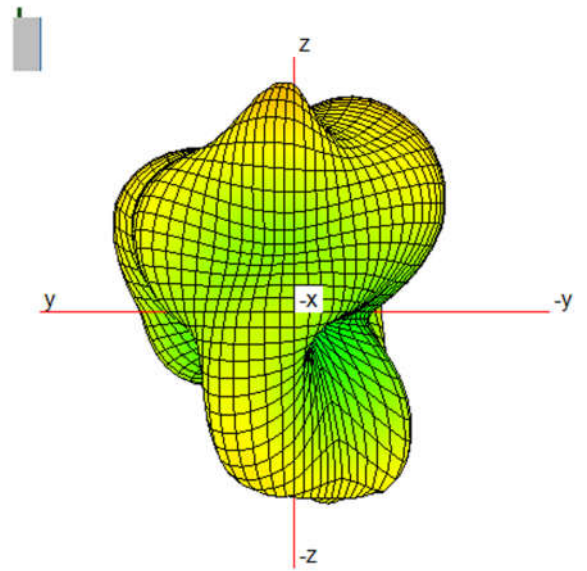

WIFI 5G (5200 MHz)
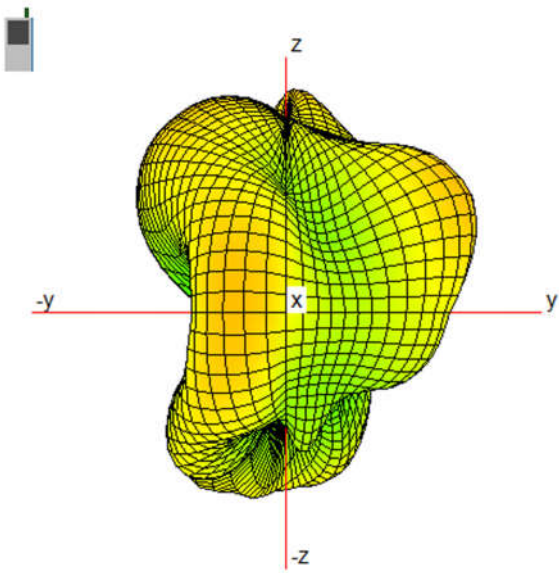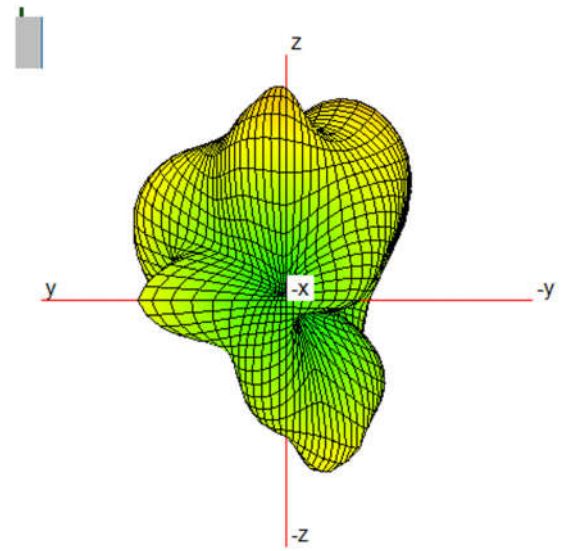

WIFI 5G (5300 MHz)

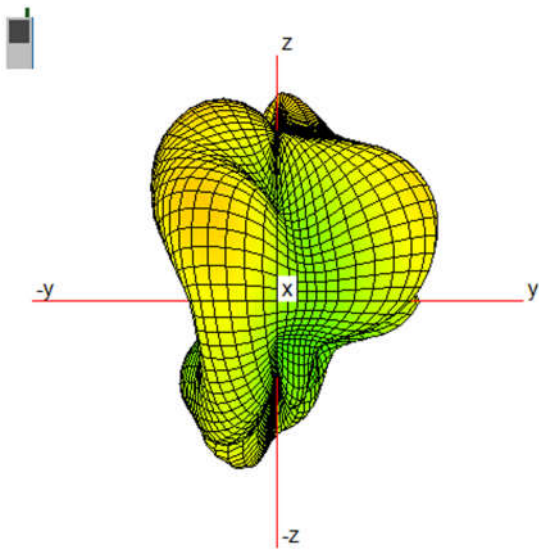WIFI 5G (5500 MHz)

WIFI 5G (5800 MHz)
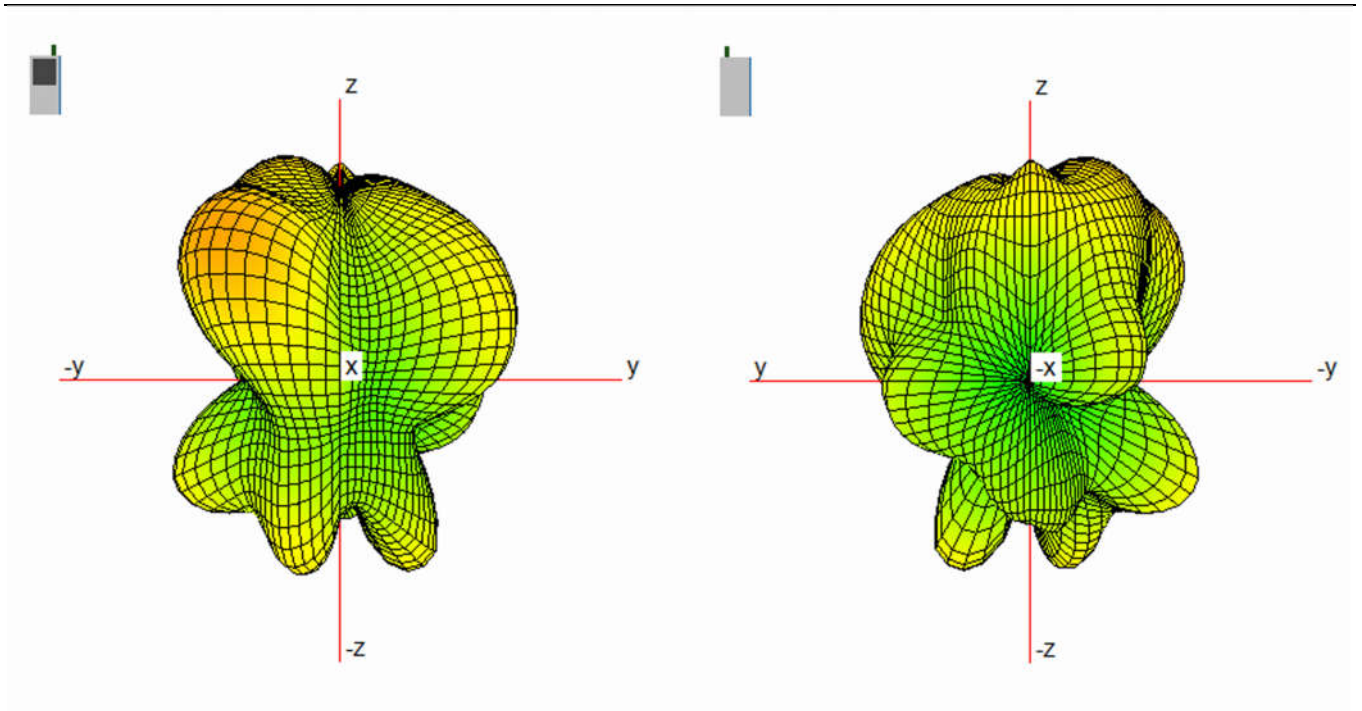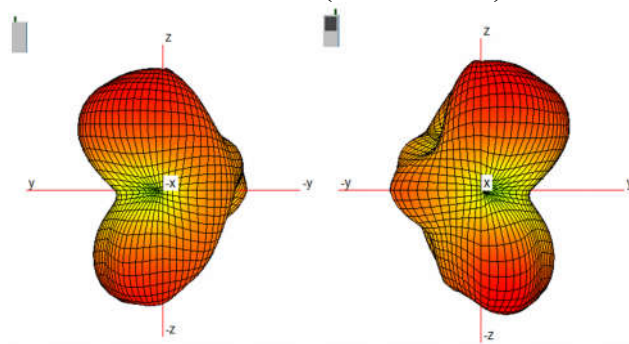
WIFI 6E (6100 MHz)

WIFI 6E (6500 MHz)

WIFI 6E (6700 MHz)

WIFI 6E (7000 MHz)

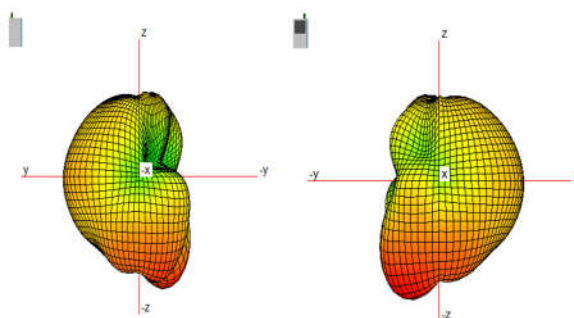**ANT6 Gain Plot**

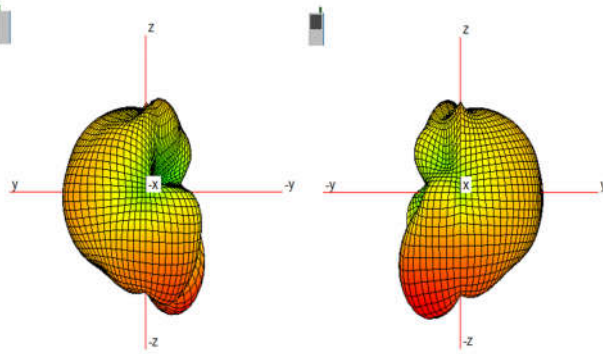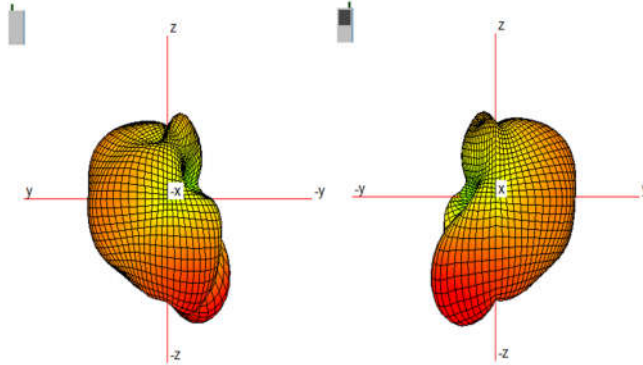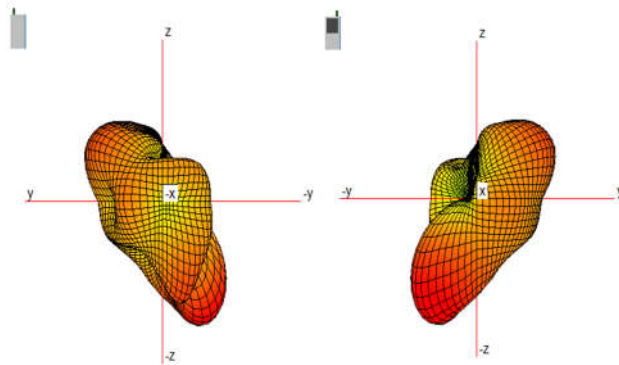(Rear view– Front view)

WIFI 2.4G (2450 MHz)

ANT5 Gain Plot

(Rear view– Front view)

WIFI 5G (5200 MHz)
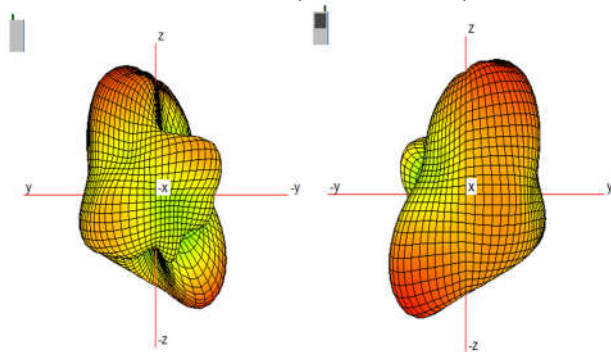
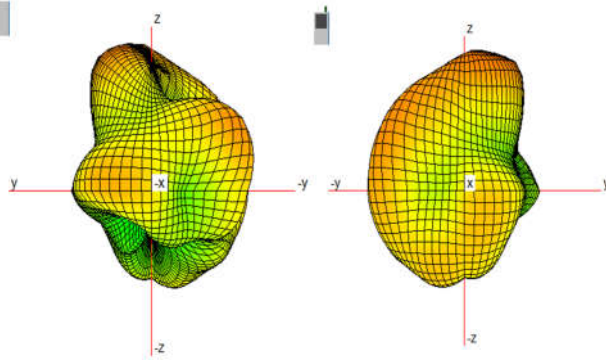WIFI 5G (5300 MHz)

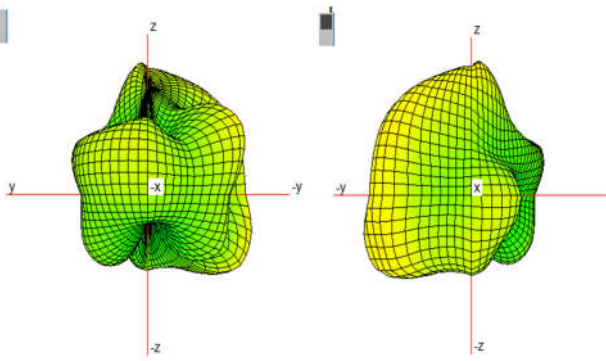WIFI 5G (5500 MHz)

WIFI 5G (5800 MHz)

WIFI 6E (6100 MHz)

WIFI 6E (6500 MHz)

WIFI 6E (6700 MHz)

WIFI 6E (7000 MHz)