
Antenna Reports

Main Antenna vendor: Motorola

Test lab: Motorola internal lab (by GTS RayZone2800)

Antenna model name: Midframe

Issue date: 2024/12/31

Documented by:

Hu mei

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
List of calibrated test equipment	GTS2800 with calibrated date: : On October 20, 2024
Antenna detail info.	Show WLAN/BT/ NFC/UWB/WPT only, no WWAN ANT5: WiFi 5G/6E (5.15~7.125GHz), Loop type antenna. ANT6: GPS; WiFi 2.4G(1.575GHz,(2.4~2.5GHz); UWB CH5(6.4896GHz,BW500MHz) CH9(7.9872GHz, BW500MHz), IFA type antenna. ANT7: WiFi 2.4G/5G/6E (2.4~2.5GHz, 5.15~7.125GHz), IFA type antenna. ANT8: UWB CH5(6.4896GHz,BW500MHz) CH9(7.9872GHz, BW500MHz), IFA type antenna. NFC Antenna: Differential port to excite FPC FPC + Nano and Size 59.9mm*53.2mm,Coil WLC antenna: Coil winding dimension is 44mm x 43mm.
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 20,2024	October 20,2025	Self-monitor monthly to ensure the variation within 0.5db during the cycle.
CMW500	October 15,2024	October 15,2025	N/A

Antenna Test data:

ANT5

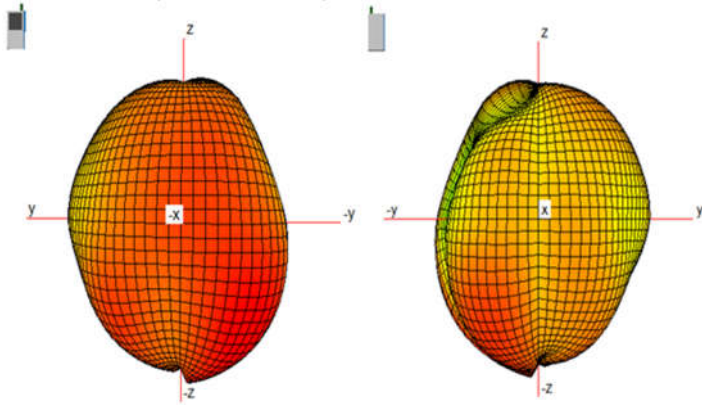
Antenna model name: Midframe

Antenna type: Loop

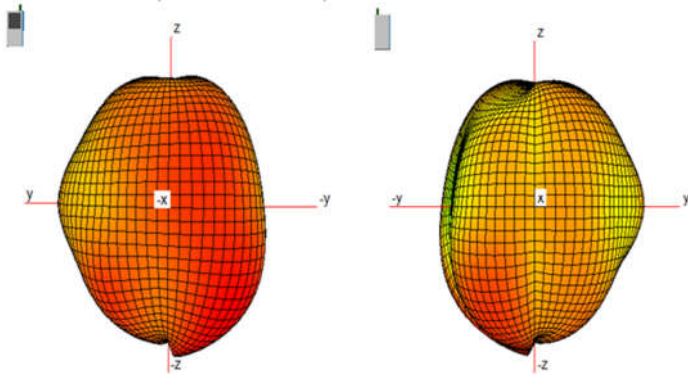
WLAN Peak Gain (dBi)			
5150~5250MHz	-4.4	6E UNII-5	-2.86
5250~5350MHz	-3.4	6E UNII-6	-2.87
5470~5725MHz	-2.5	6E UNII-7	-3.05
5725~5850MHz	-2.2	6E UNII-8	-4.18

(Rear view– Front view)

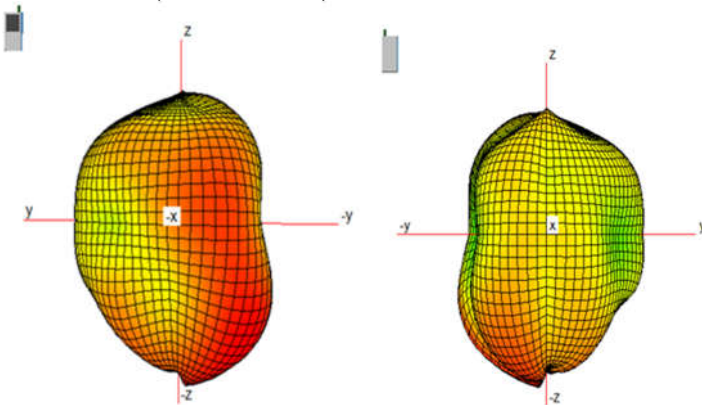
WIFI 5G (5200 MHz)



WIFI 5G (5500 MHz)

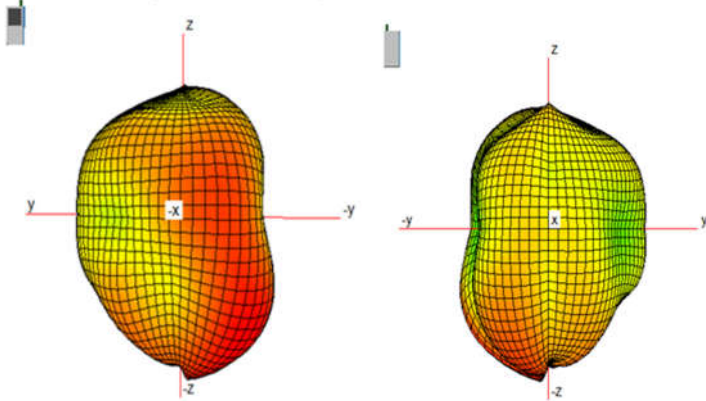


WIFI 5G (5800 MHz)

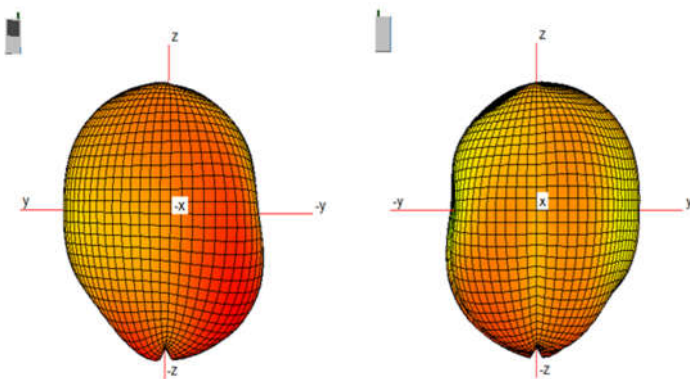


ANT5-WIFI 6E CH0

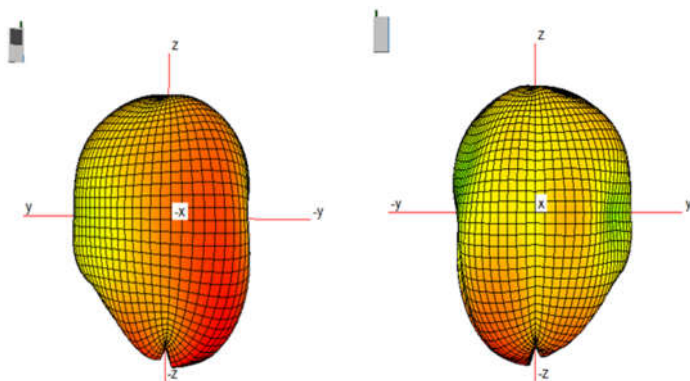
WIFI 6E (6000 MHz)



WIFI 6E (6500 MHz)



WIFI 6E (7000 MHz)



ANT6

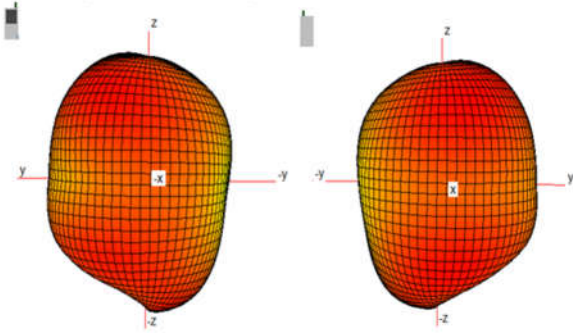
Antenna model name: Midframe

Antenna type: IFA

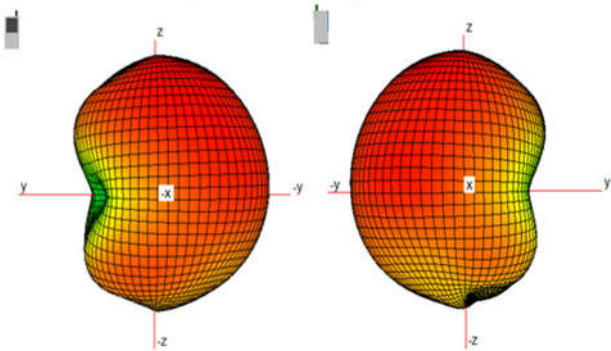
GPS +BT/WLAN + UWB Peak Gain (dBi)			
1575MHz	-4.5	2400~2483.5MHz	-2.1
6500MHz	-6.5	8000MHz	-2.4

(Rear view– Front view)

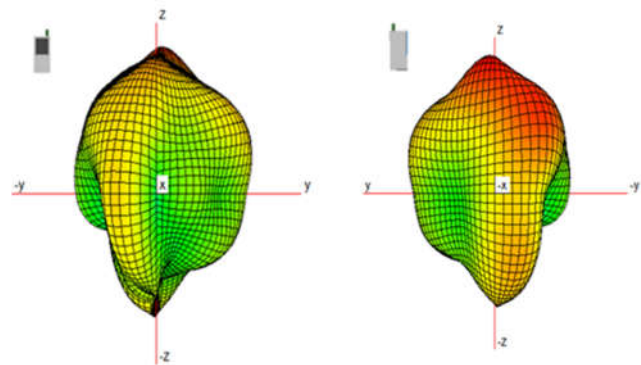
GPS (1575 MHz)



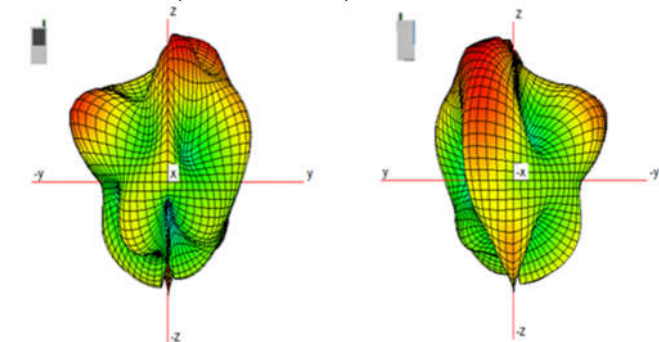
WIFI 2.4G (2450 MHz)



UWB Ch5 (6500 MHz)



UWB Ch9 (8000 MHz)



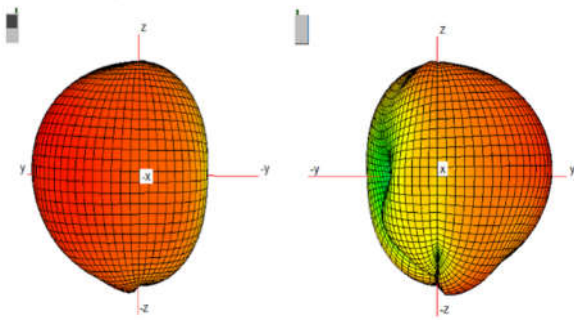
ANT7

Antenna model name: Midframe

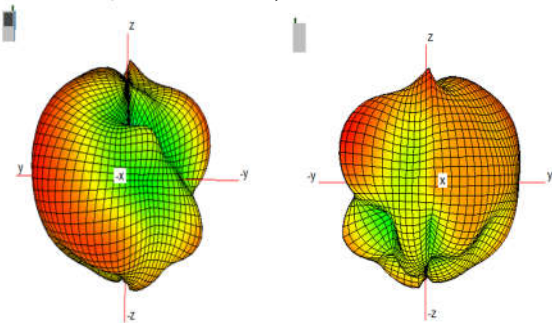
Antenna type: IFA

BT/WLAN Peak Gain (dBi)			
2400~2483.5MHz	-0.4		
5150~5250MHz	-1.3	6E UNII-5	-1.5
5250~5350MHz	-1.5	6E UNII-6	-1.3
5470~5725MHz	-1.5	6E UNII-7	-1.4
5725~5850MHz	-1.4	6E UNII-8	-1.45

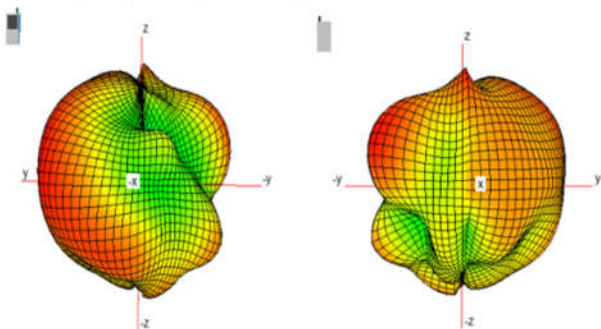
(Rear view– Front view)
WIFI 2.4G (2450 MHz)



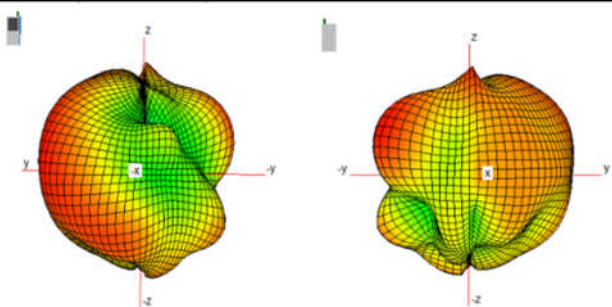
WIFI 5G (5200 MHz)



WIFI 5G (5500 MHz)

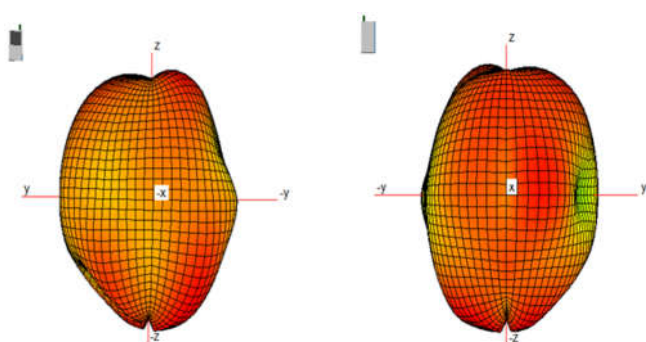


WIFI 5G (5800 MHz)

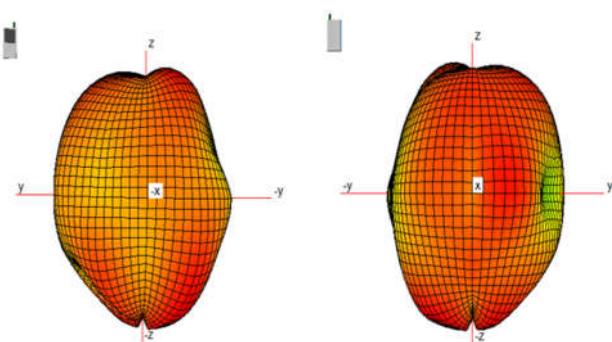


ANT7-WIFI 6E CH0

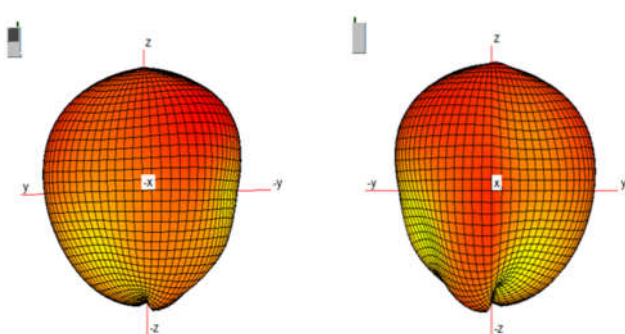
WIFI 6E (6000 MHz)



WIFI 6E (6500 MHz)



WIFI 6E (7000 MHz)



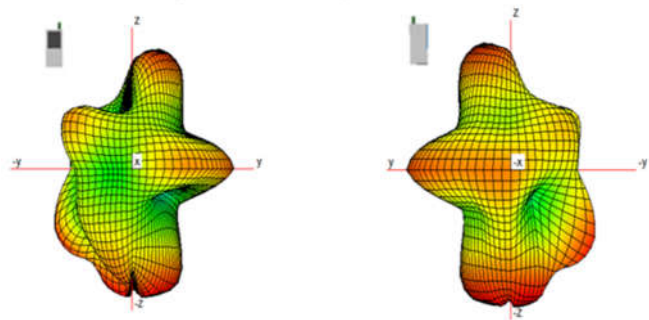
ANT8

Antenna model name: Midframe

Antenna type:IFA

UWB Peak Gain (dBi)			
6500MHz	-4.9	8000MHz	-3.4

UWB Ch5 (6500 MHz)



UWB Ch9 (8000 MHz)

