
Antenna Reports

Company: Motorola Mobility LLC

Model name: Midframe

Issue date: 2025/09/30

Documented by: _____

Han Tiantian

Antenna Summary Table

Check items	Information
Provided by lab	Motorola internal lab (by GTS RayZone2800)
Manufacturer/ Brand name	Motorola
Model name (Part number)	Midframe
Test software	MaxSign Libra
Test environment	Motorola Shanghai RD team Lab with GTS 1800 Motorola Shanghai RD team Lab with GTS 2800 chamber
List of calibrated test equipment	GTS1800 with calibrated date: On October 23, 2024, due data:October 23, 2026 GTS2800 with calibrated date: On October 24, 2024, due data:October 24, 2026
Antenna detail info.	Show WLAN/BT/ NFC/UWB/WPT only ANT3:GPS, BT/WiFi 2.4G(1.575GHz,(2.4~2.5GHz), PIFA type ANT4: WiFi 5G (5.15~5.85GHz&5925 MHz ~ 7125 MHz), PIFA type antenna. ANT5: WiFi 5G (5.15~5.85GHz&5925 MHz ~ 7125 MHz), PIFA type antenna. ANT6: BT/WiFi2.4G (2.4~2.5GHz), PIFA type antenna. NFC Antenna: Loop combined with metal frame design + Ferrite sheet with dimension 35.5 mm *18.5mm * 0.25mm WLC antenna: Differential port to excite FPC coil + nano crystal sheet with dimension Diameter 48mm*0.18mm(Thickness). ANT7: UWB-1 antenna(CH5/CH9), IFA Antenna type antenna. ANT10: UWB-2 antenna(CH9), slot Antenna type with LDS design (Rx only) . ANT11: UWB-3 antenna(CH5/CH9),IFA Antenna type.
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:
ANT3/4/5/6

Antenna model name: Midframe

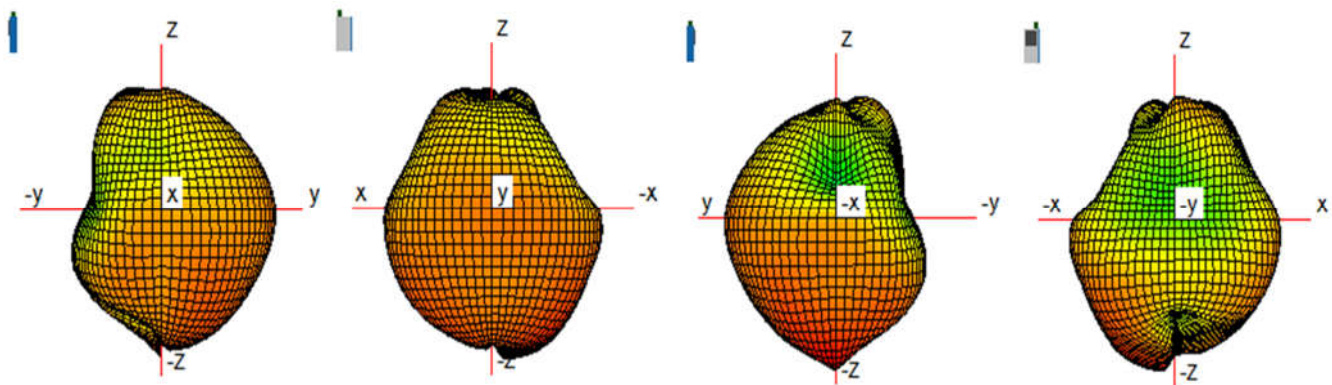
BT/WLAN CH0 (ANT6&5) Peak Gain (dBi)			
2400~2483.5MHz	-6.2	6E UNII-5	-3.0
5150~5250MHz	-6.9	6E UNII-6	-2.8
5250~5350MHz	-6.4	6E UNII-7	-2.7
5470~5725MHz	-6.3	6E UNII-8	-3.0
5725~5850MHz	-6.9		

BT/WLAN CH1 (ANT3&4) Peak Gain (dBi)			
2400~2483.5MHz	-6.5	6E UNII-5	-3.0
5150~5250MHz	-6.6	6E UNII-6	-2.6
5250~5350MHz	-7	6E UNII-7	-2.5
5470~5725MHz	-6.8	6E UNII-8	-2.9
5725~5850MHz	-6.6		

ANT7 UWB-1 Peak Gain (dBi)			
CH5(6250~6750MHz)	-0.3	CH9(7750~8250MHz)	-0.9
ANT10 UWB-2 Peak Gain (dBi) Rx only			
CH5(6250~6750MHz)	/	CH9(77500~8250MHz)	1.1
ANT11 UWB-3 Peak Gain (dBi)			
CH5(6250~6750MHz)	-4.9	CH9(77500~8250MHz)	-3.5

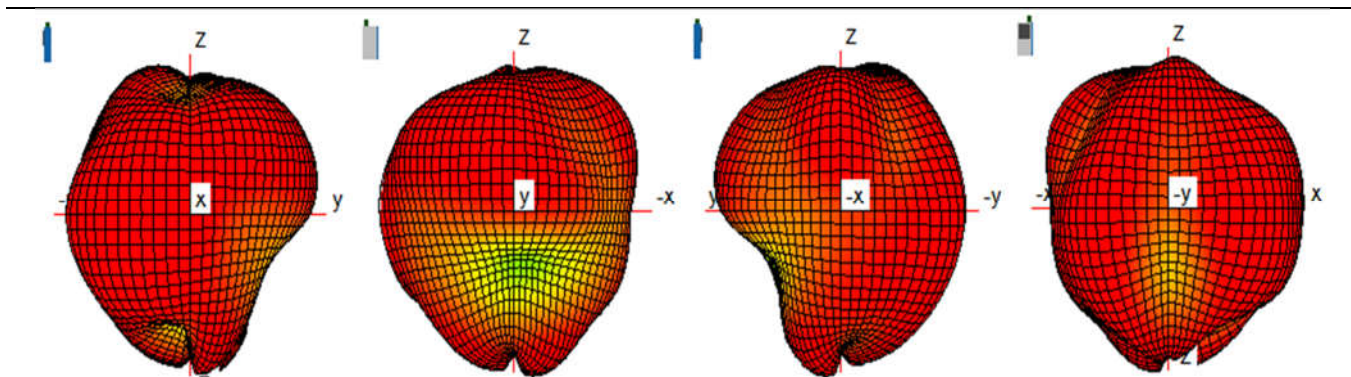
ANT6- WiFi 2.4G CH0

2.45G:



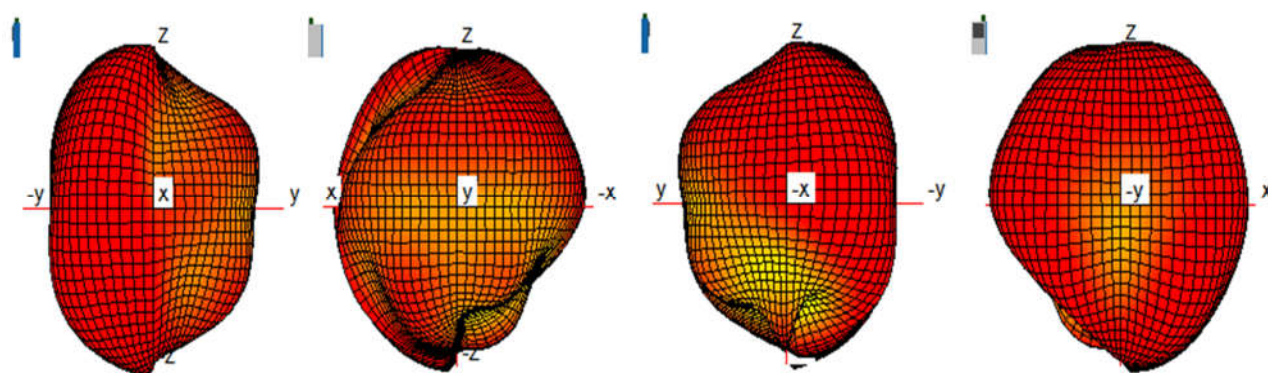
ANT4-WIFI 5G CH1

5.5G:



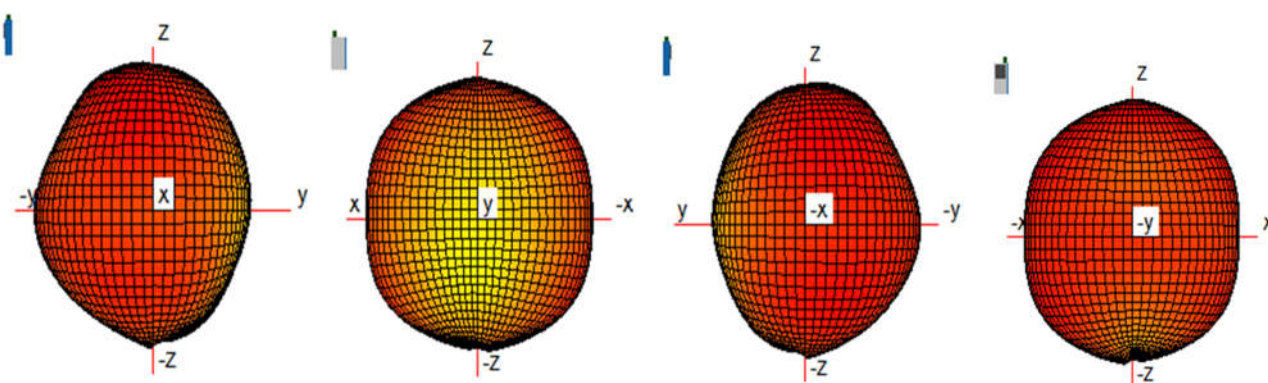
ANT4-WIFI 6E CH1

6.5G:

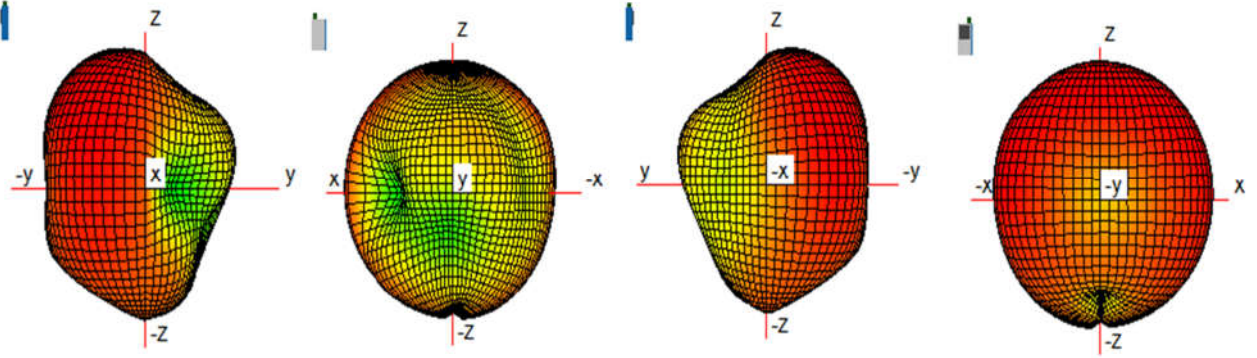


ANT3- WiFi 2.4G CH1

GPS L1:

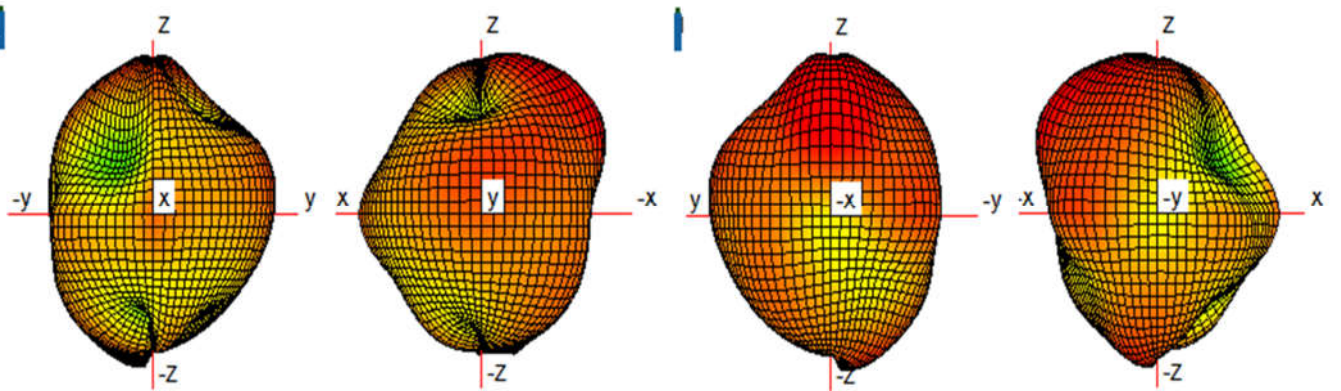


2450MHz



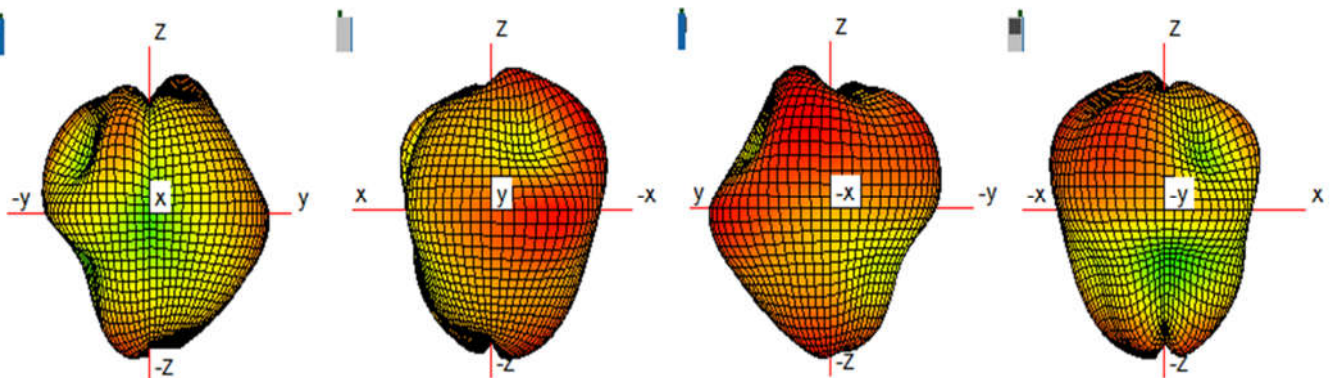
ANT5- WiFi 5G CH0

5.5G:



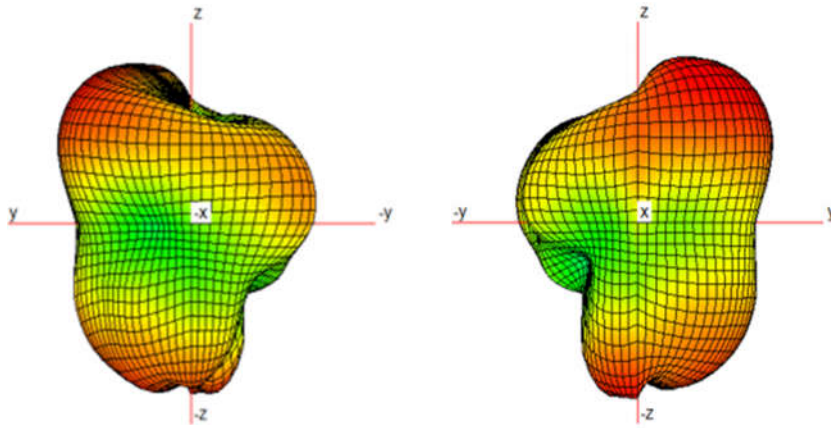
ANT5- WiFi 6E CH0

6.5G:

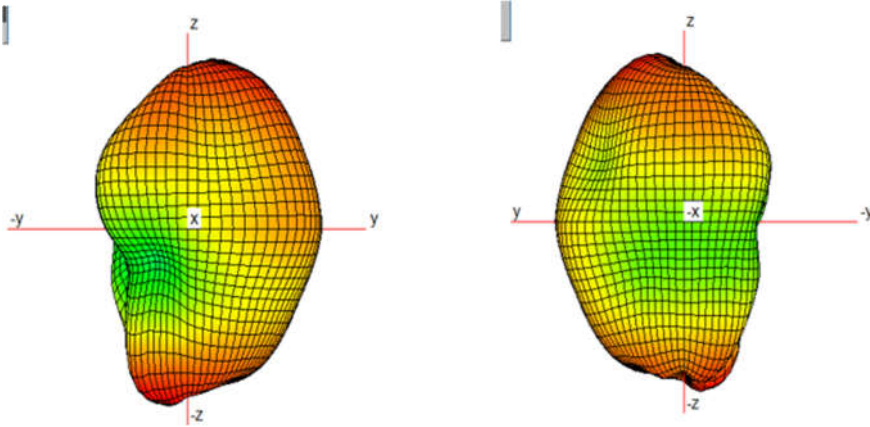


ANT7- UWB ANT-1

6500MHz

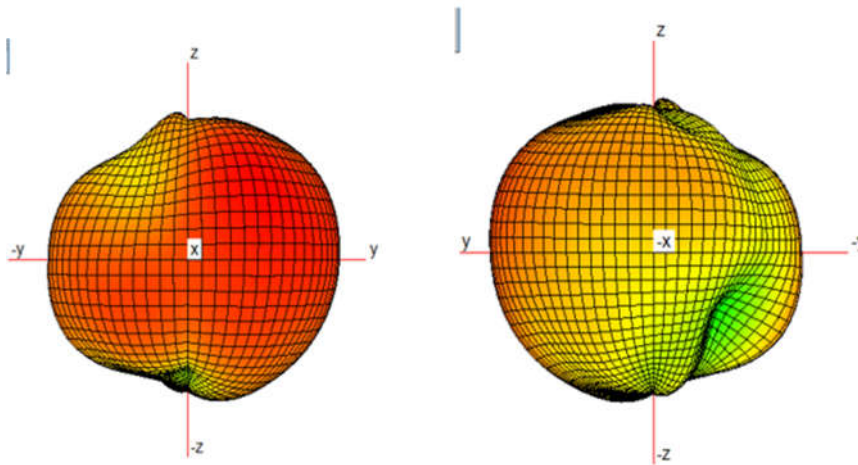


8000MHz



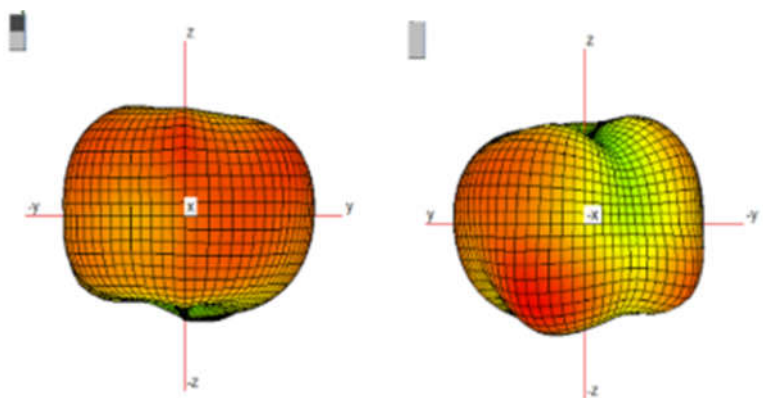
ANT10- UWB

8000MHz



ANT11- UWB ANT-3

6500MHz



8000MHz

