

# Antenna Test Report

**APPLICANT** : Motorola Mobility LLC

**EQUIPMENT** : Mobile Cellular Phone

**BRAND NAME** : Motorola

**MODEL NAME** : XT2431-2, XT2431-3

## Antenna Report

### Antenna Summary Table

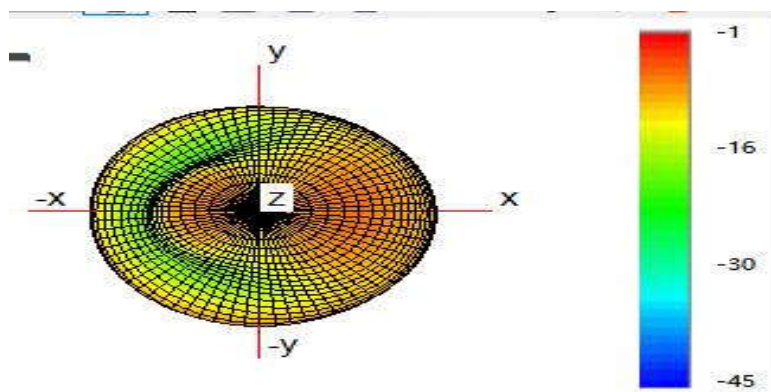
| Check items                       | Information                                                                                                                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Provided by lab                   | Sunway internal lab (GTS)                                                                                                                                                                  |
| Manufacturer/ Brand name          | Sunway                                                                                                                                                                                     |
| Test software                     | MaxSign Libra                                                                                                                                                                              |
| Test equipment                    | CMW500                                                                                                                                                                                     |
| Manufacturer address              | 1013, Xihuan Rd., Shajing Town, Bao'an District, Shenzhen                                                                                                                                  |
| Test environment                  | Sunway Shanghai RD team Lab with GTS2800 chamber                                                                                                                                           |
| List of calibrated test equipment | GTS2800 with calibrated date: On May 2,2023                                                                                                                                                |
| Antenna detail info.              | ANT6: WiFi2.4G / 5G /BT antenna (2.4~2.5GHz, 5.15~5.85GHz), IFA type antenna.<br><br>NFC Antenna: Differential port to excite FPC + Ferrite sheet with dimension 36.06 mm *26.41mm * 0.2mm |
| Antenna gain test data            | Included antenna frequency, gain pattern                                                                                                                                                   |
| Main Antenna vendor               | Sunway                                                                                                                                                                                     |
| Test lab                          | Sunway internal lab (GTS)                                                                                                                                                                  |
| Antenna gain test data            | Included antenna frequency, gain pattern                                                                                                                                                   |
| Antenna model name                | FPC                                                                                                                                                                                        |
| Issue date                        | 2023/07/06                                                                                                                                                                                 |
| Documented by                     |                                                                                                         |

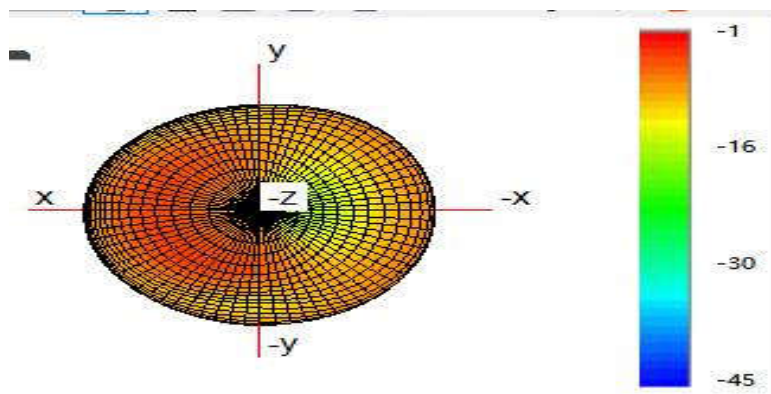
Note: Antenna gain was measured in the anechoic chamber, 3D scan was exercised, and the highest numbers are reported in this document.

**Antenna Test data:**

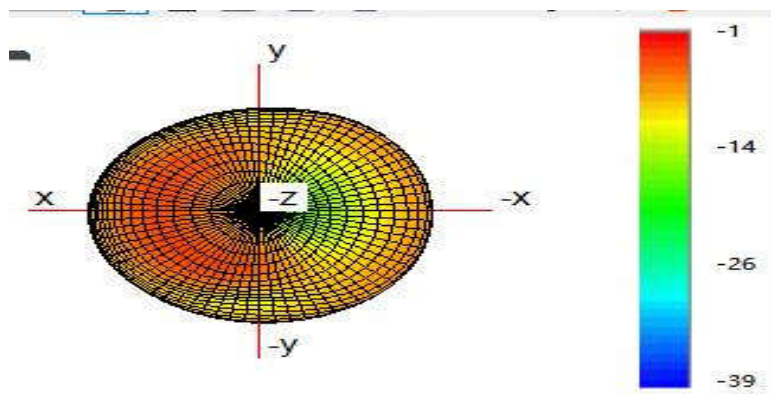
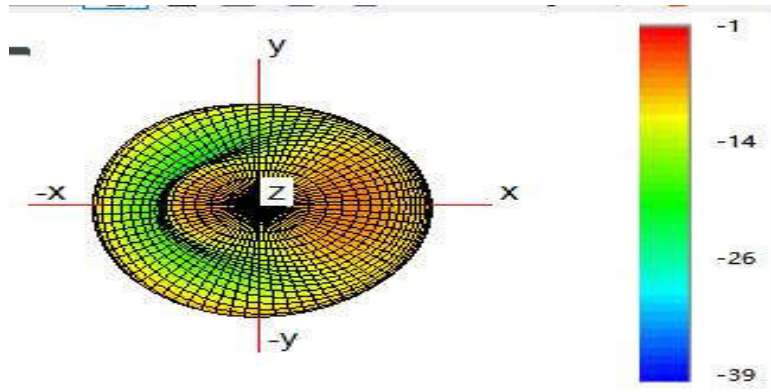
|                                   |                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Antenna Type /Gain BT/2.4G</b> | <b>&lt;2400MHz~2483.5MHz&gt;</b><br><b>&lt;Ant6&gt;: IFA Antenna with gain: -2.7 dBi</b>                                                                                                                                                                                                                                                                  |
| <b>Antenna Type /Gain 5G</b>      | <b>&lt;5150-5250MHz &gt;</b><br><b>&lt;Ant6&gt;: IFA Antenna with gain: -4 dBi</b><br><b>&lt;5250-5350MHz&gt;</b><br><b>&lt;Ant6&gt;: IFA Antenna with gain: -4.4 dBi</b><br><b>&lt;5470-5725MHz &gt;</b><br><b>&lt;Ant6&gt;: IFA Antenna with gain: -4.5 dBi</b><br><b>&lt;5725~5850MHz &gt;</b><br><b>&lt;Ant6&gt;: IFA Antenna with gain: -5.1 dBi</b> |

**Gain Plots**

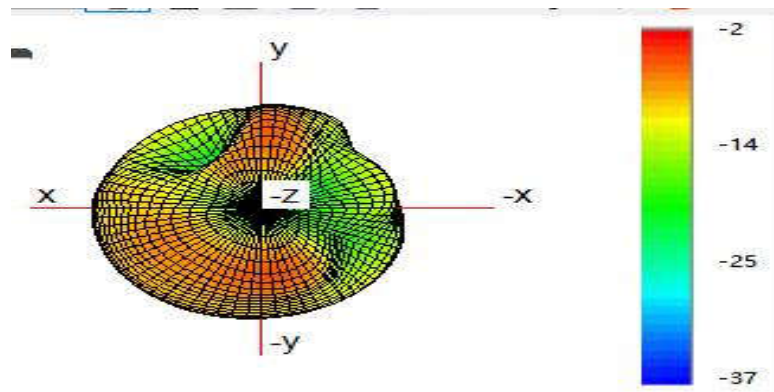
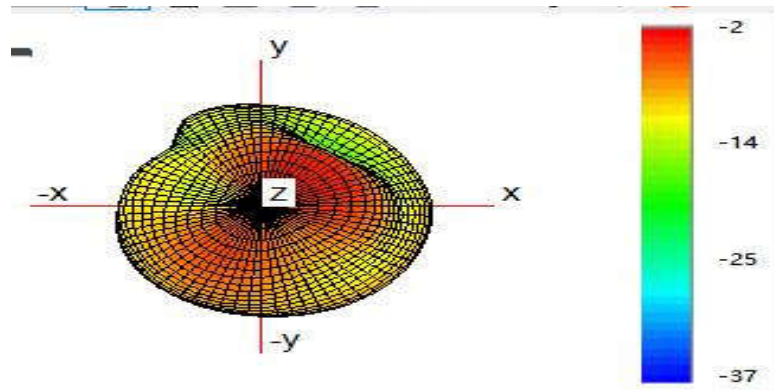




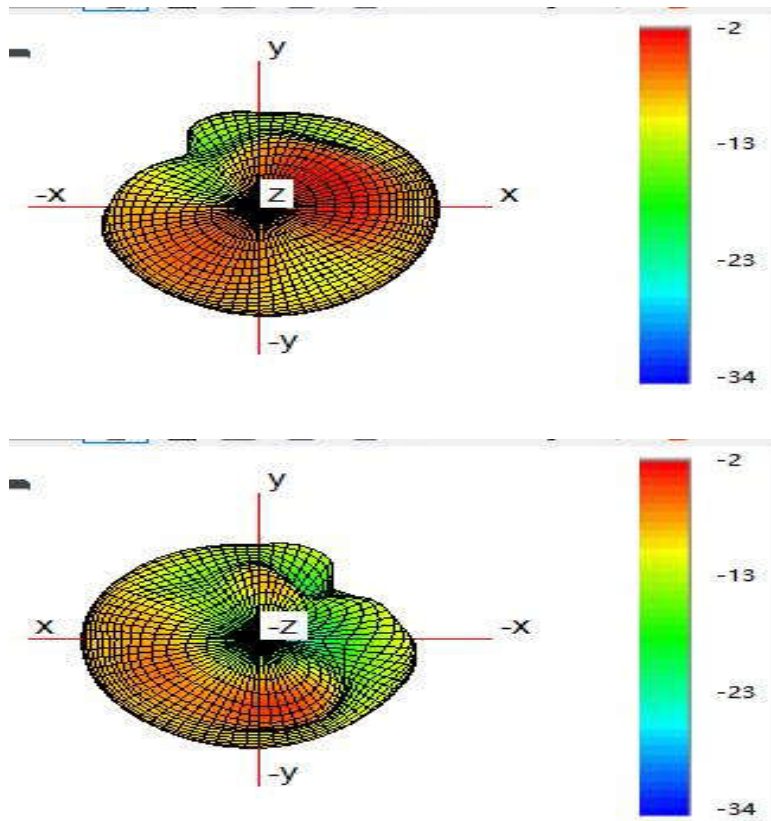
BT



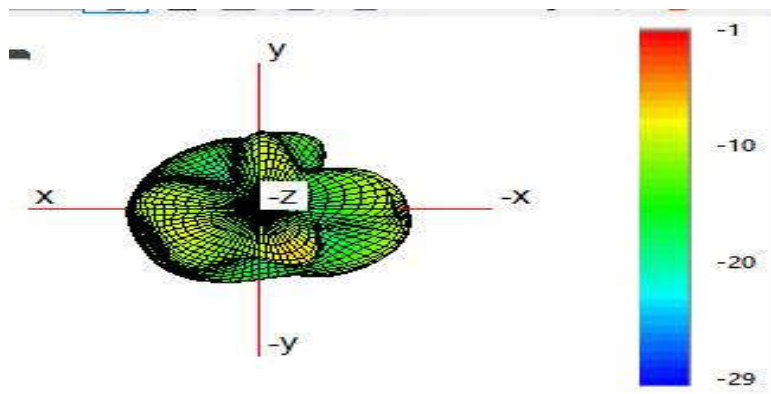
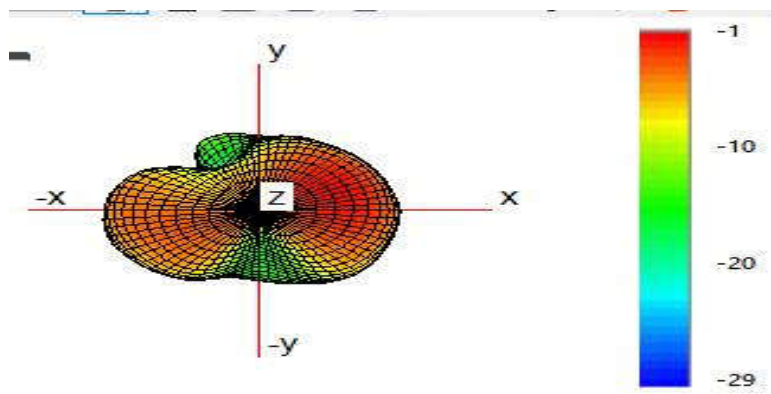
**WIFI 2.4G**



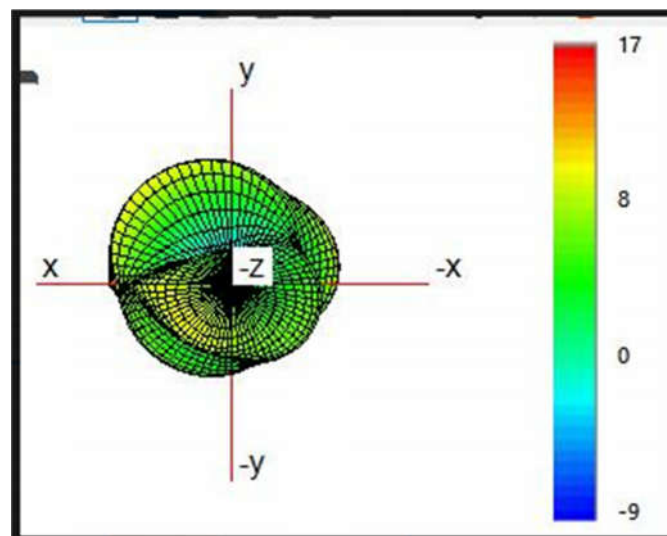
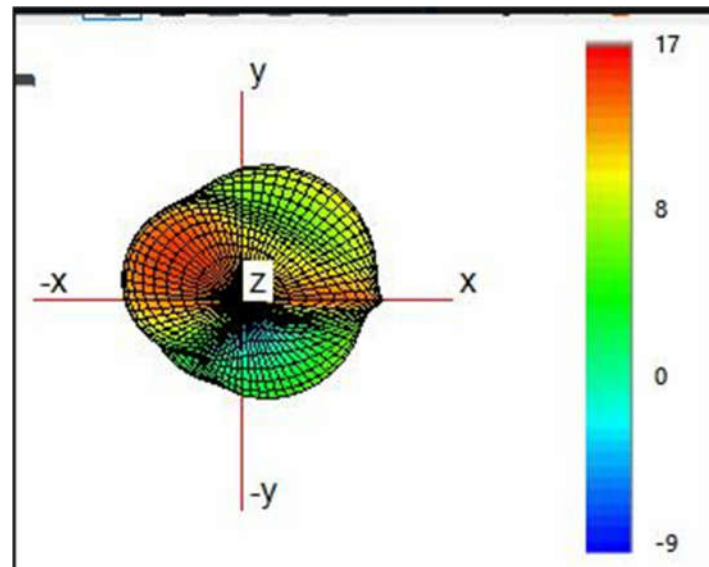
**WIFI 5G W52**



**WIFI 5G W53**



**WIFI 5G W56**



**WIFI 5G W58**

## ***Antenna Report***

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### ***NFC Antenna information***

NFC Antenna: Differential port to excite FPC + Ferrite sheet with dimension  
36.06mm\*26.41mm\*0.20mm

Antenna vendor: Sunway