

# ANTENNA INFORMATION

|                                                           |                                                      |
|-----------------------------------------------------------|------------------------------------------------------|
| OEM                                                       | DELL                                                 |
| ODM                                                       | Compal                                               |
| Platform model name                                       | P207G                                                |
| Intel platform (ex: Yes, No or NA)                        | Yes                                                  |
| Platform type (ex: regular NB, convertible PC, AIO...etc) | Regular NB                                           |
| SAR minimum separation (mm)                               | FCC (1g) 4.32 mm (w/bumper)<br>2.72 mm (w/o bumper)  |
|                                                           | ISED (1g) 4.32 mm (w/bumper)<br>2.72 mm (w/o bumper) |
|                                                           | ISED (10g) 4.32 mm                                   |

|                      |                 |                                                                                          |
|----------------------|-----------------|------------------------------------------------------------------------------------------|
| Antenna manufacturer | Company name    | SPEED                                                                                    |
|                      | Address         | 25F., No.95, Xinpu 6th St., Taoyuan Dist., Taoyuan City 330, Taiwan                      |
| Test location        | Company name    | Sporton International Inc.                                                               |
|                      | Address         | No.52, Hwaya 1st Rd., Hwaya Technology Park, Guishan Dist., Taoyuan City, Taiwan, R.O.C. |
| Test Personnel       | Name(Full name) | John Liu                                                                                 |
|                      | E-mail          | john_liu@Speed-hz.com                                                                    |
|                      | Tel/Mobile      | 03-325-3361 ext:253                                                                      |
| Testing date         |                 | 2026.02.03                                                                               |

|                                       |      |                     |
|---------------------------------------|------|---------------------|
| Antenna Part number                   | Main | F-0G-FH-6216-006-00 |
|                                       | Aux  | F-0G-FH-6216-007-00 |
| Antenna type (ex: PIFA, Dipole...etc) |      | PIFA                |

| Antenna Peak gain w/ cable loss (dBi)* |                           |                        |                        |                        |                        |                        |                        |                        |                        |                         |
|----------------------------------------|---------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|
|                                        | 2.4GHz<br>2400-2483.5 MHz | 5.2GHz<br>5150-5250MHz | 5.3GHz<br>5250-5350MHz | 5.6GHz<br>5470-5725MHz | 5.8GHz<br>5725-5850MHz | 5.9GHz<br>5850-5895MHz | 6.2GHz<br>5925-6425MHz | 6.5GHz<br>6425-6525MHz | 6.7GHz<br>6525-6875MHz | 7.0 GHz<br>6875-7125MHz |
| Main                                   | 0.60                      | 0.66                   | 0.94                   | 1.31                   | 1.22                   | 1.11                   | 1.84                   | 1.64                   | 2.28                   | 1.70                    |
| Aux                                    | -0.50                     | 0.06                   | 0.86                   | 1.10                   | 1.23                   | 0.78                   | 1.34                   | 1.22                   | 1.92                   | 1.64                    |

| Cable Assembly Part Number and Information |                      |                  |                    |                |                |
|--------------------------------------------|----------------------|------------------|--------------------|----------------|----------------|
|                                            | Cable PN             | Cable length(mm) | Cable diameter(mm) | Impedance(ohm) | Connector type |
| Main                                       | SY113L/50-143(White) | 337              | 1.13               | 50             | I-PEX(MHF-4L)  |
| Aux                                        | SY113L/50-118(Black) | 244              | 1.13               | 50             | I-PEX(MHF-4L)  |

\* 3D Antenna Peak Gain required being test in system basis.

| Cable loss (dB) |                                  |                               |                               |                               |                               |                               |                               |                               |                               |                                |
|-----------------|----------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|
|                 | <b>2.4GHz</b><br>2400-2483.5 MHz | <b>5.2GHz</b><br>5150-5250MHz | <b>5.3GHz</b><br>5250-5350MHz | <b>5.6GHz</b><br>5470-5725MHz | <b>5.8GHz</b><br>5725-5850MHz | <b>5.9GHz</b><br>5850-5895MHz | <b>6.2GHz</b><br>5925-6425MHz | <b>6.5GHz</b><br>6425-6525MHz | <b>6.7GHz</b><br>6525-6875MHz | <b>7.0 GHz</b><br>6875-7125MHz |
| Main            | 1.01                             | 1.50                          | 1.51                          | 1.55                          | 1.57                          | 1.58                          | 1.63                          | 1.68                          | 1.72                          | 1.77                           |
| Aux             | 0.74                             | 1.10                          | 1.11                          | 1.14                          | 1.15                          | 1.16                          | 1.20                          | 1.24                          | 1.26                          | 1.30                           |

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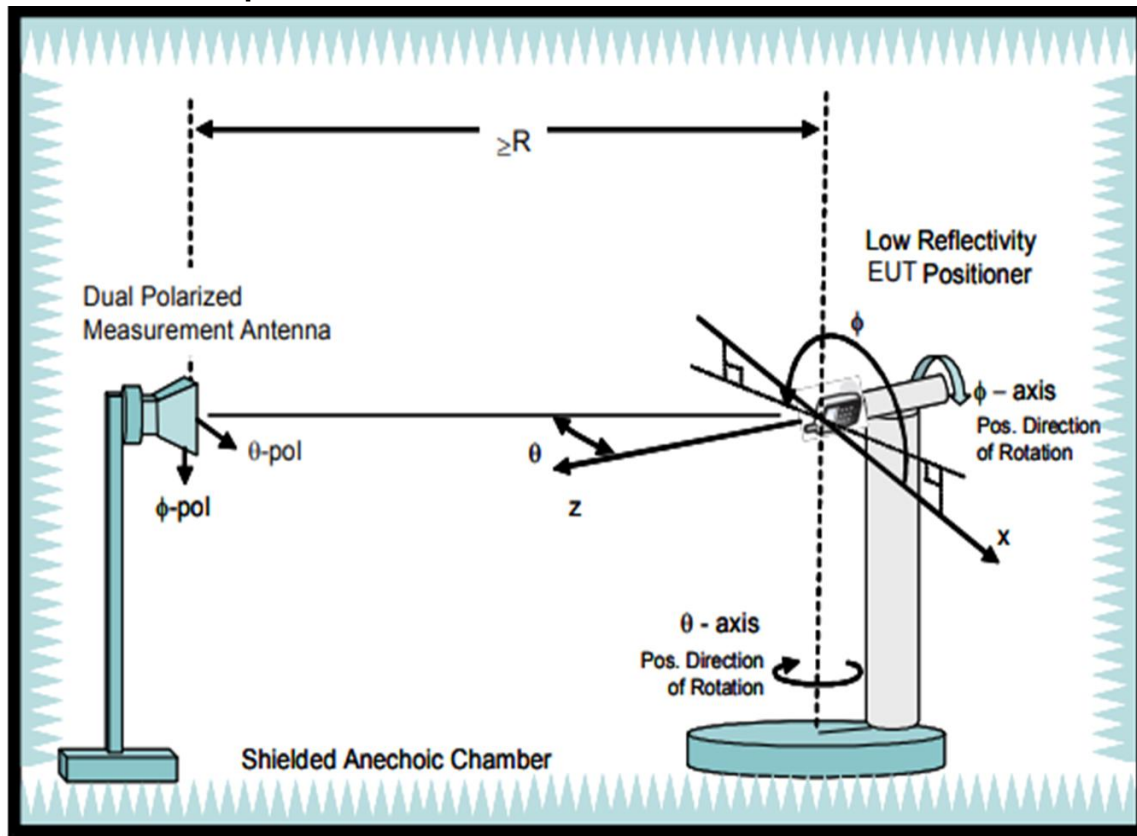
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## 1. Test & System Description

### 1.1 Measurement Method and System

This test report is prepared for host antenna testing under a Full Anechoic Chamber.

### 1.2 Test setup



### 1.3 Equipment list

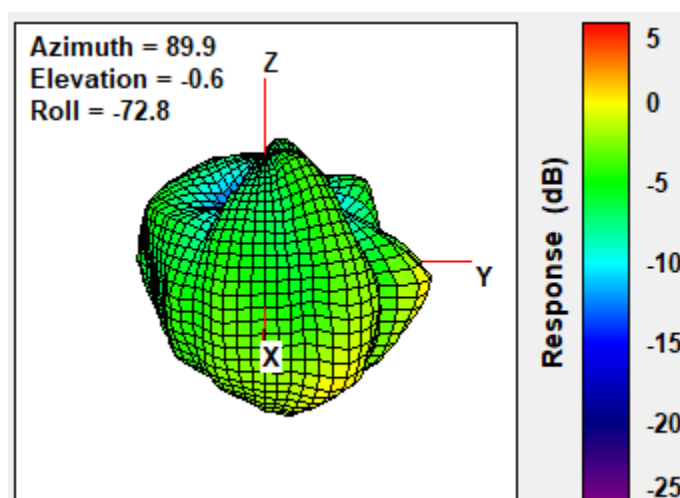
| Test Equipment List |                                   |                           |              |                    |                  |                      |
|---------------------|-----------------------------------|---------------------------|--------------|--------------------|------------------|----------------------|
| ID                  | Device description                | Model Name                | Manufacturer | Serial Number      | Calibration Date | Calibration Due Date |
|                     | Anechoic Chamber                  | AMS8500                   | ETS-Lindgren |                    | 2024/11/20       | 2026/11/19           |
|                     | Turn Table                        | 2117-7200                 | ETS-Lindgren | SN00231447         | 2024/11/20       | 2026/11/19           |
|                     | Switch & Positioning systems      | EMCenter                  | ETS-Lindgren | SN00242606         | 2024/11/20       | 2026/11/19           |
|                     | Measurement SW                    | EMQuest V1.15 build 27347 | ETS-Lindgren | SN1802             | 2024/11/20       | 2026/11/19           |
|                     | Horn antenna                      | 3164-10                   | ETS-Lindgren | SN00246202         | 2024/11/20       | 2026/11/19           |
|                     | Vector Network Analyzer           | E5071C                    | Keysight     | PN5188-4462        | 2024/11/20       | 2026/11/19           |
|                     | Cable 7.5m 400MHz to 18GHz(H-pol) | SS402                     | WOKEN        | 00100A1F5A1X<br>XS | 2024/11/20       | 2026/11/19           |
|                     | Cable 7.5m 400MHz to 18GHz(V-pol) | SS402                     | WOKEN        | 00100A1F5A1X<br>XS | 2024/11/20       | 2026/11/19           |
|                     | Cable 14m 400MHz to 18GHz         | SS402                     | WOKEN        | 00100A1F5A1X<br>XS | 2024/11/20       | 2026/11/19           |
|                     | Temp & Humidity Logger            | 830                       | PROVA        | SN84972            | 2024/11/20       | 2026/11/19           |

## 2. Radiation characteristics of antenna loaded in Host Platform

### Main Antenna

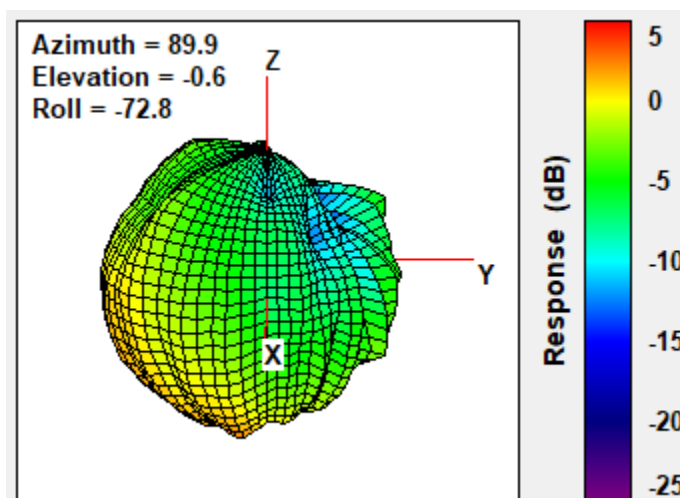
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 2400-2483.5     | 0.60                          |



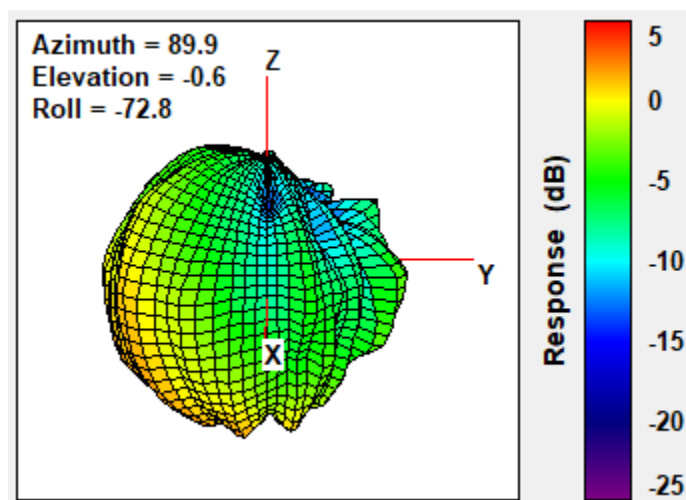
Max Antenna 3D Radiation Pattern 5150-5250 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5150-5250       | 0.66                          |



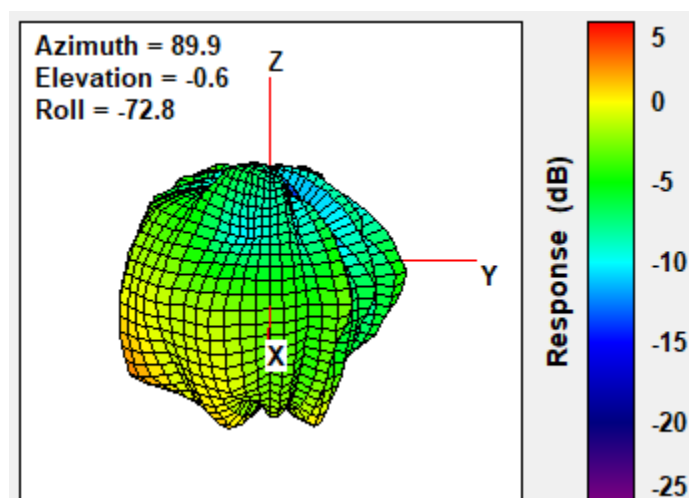
## Max Antenna 3D Radiation Pattern 5250-5350 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5250-5350       | 0.94                          |



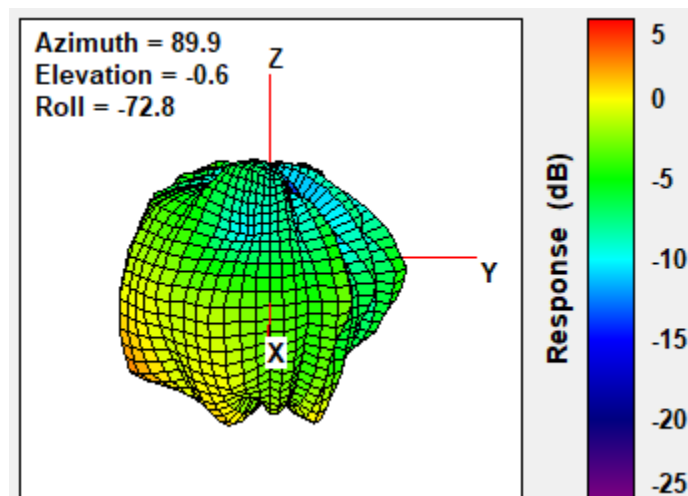
## Max Antenna 3D Radiation Pattern 5470-5725 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5470-5725       | 1.31                          |



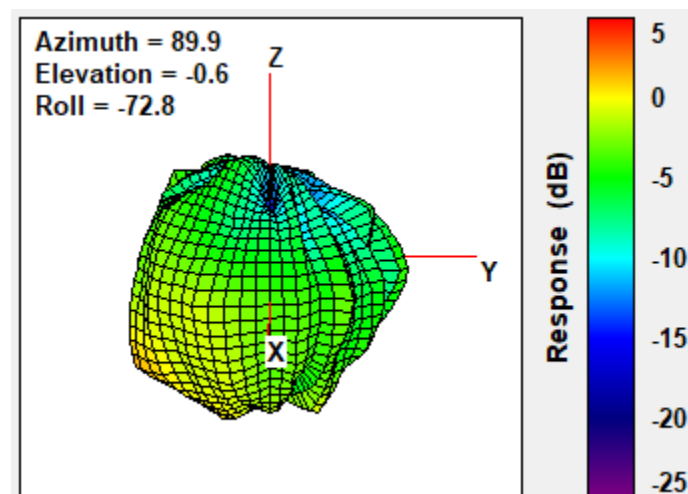
## Max Antenna 3D Radiation Pattern 5725-5850 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5725-5850       | 1.22                          |



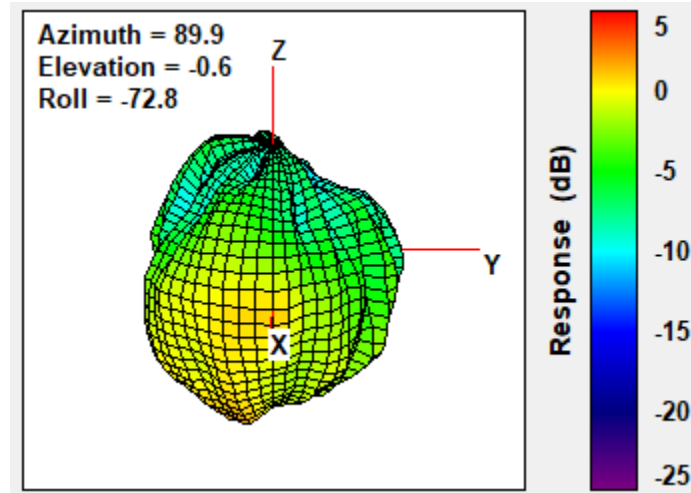
## Max Antenna 3D Radiation Pattern 5850-5895 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5850-5895       | 1.11                          |



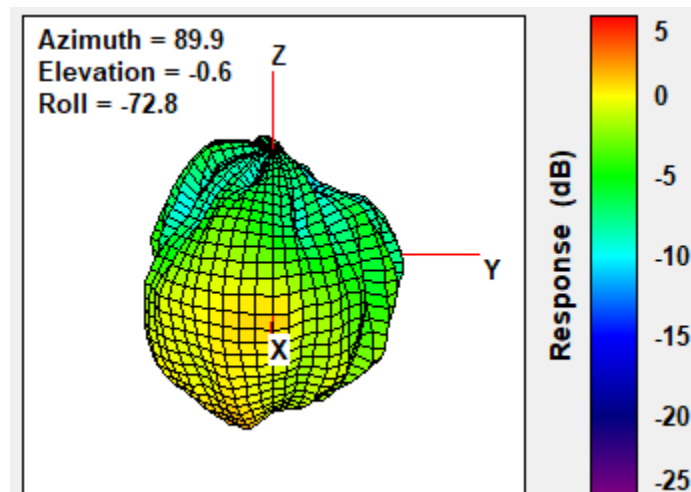
## Max Antenna 3D Radiation Pattern 5925-6425 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5925-6425       | 1.84                          |



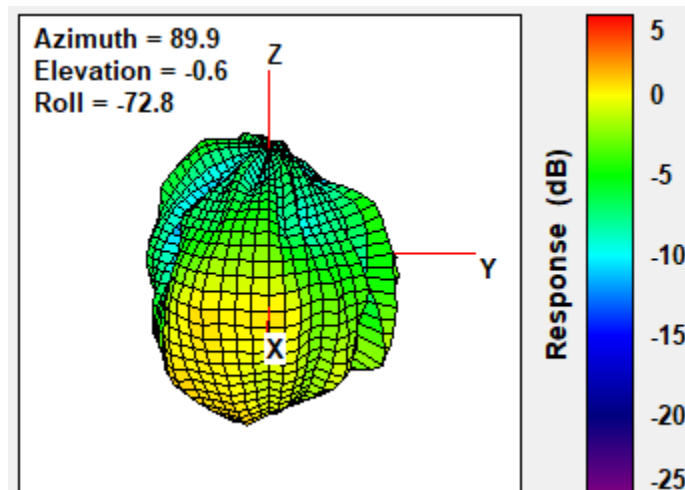
## Max Antenna 3D Radiation Pattern 6425-6525 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6425-6525       | 1.64                          |



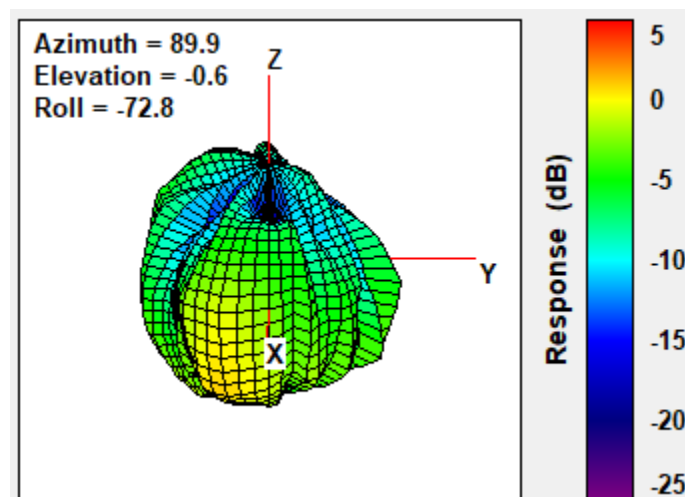
## Max Antenna 3D Radiation Pattern 6525-6875 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6525-6875       | 2.28                          |



## Max Antenna 3D Radiation Pattern 6875-7125 MHz

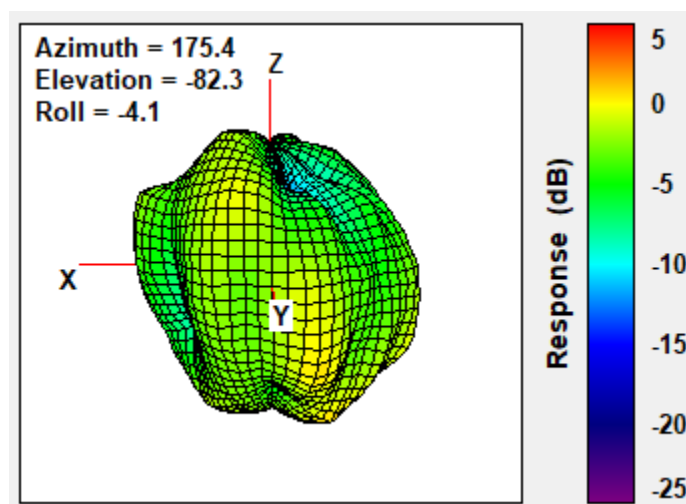
| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6875-7125       | 1.70                          |



## Auxiliary Antenna

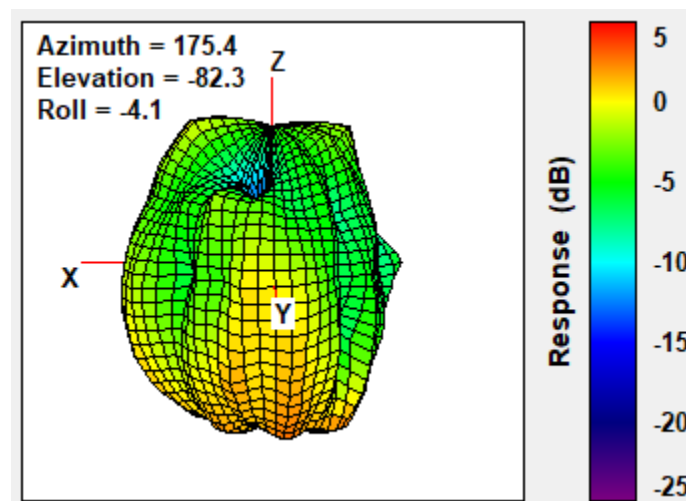
### Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 2400-2483.5     | -0.50                         |



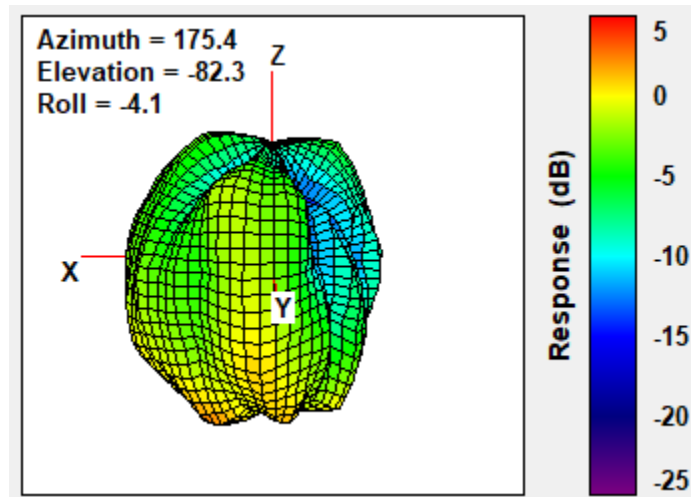
### Max Antenna 3D Radiation Pattern 5150-5250 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5150-5250       | 0.06                          |



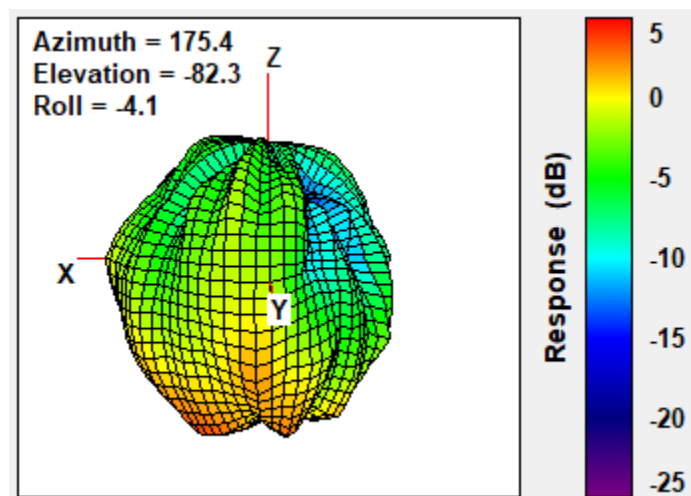
## Max Antenna 3D Radiation Pattern 5250-5350 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5250-5350       | 0.86                          |



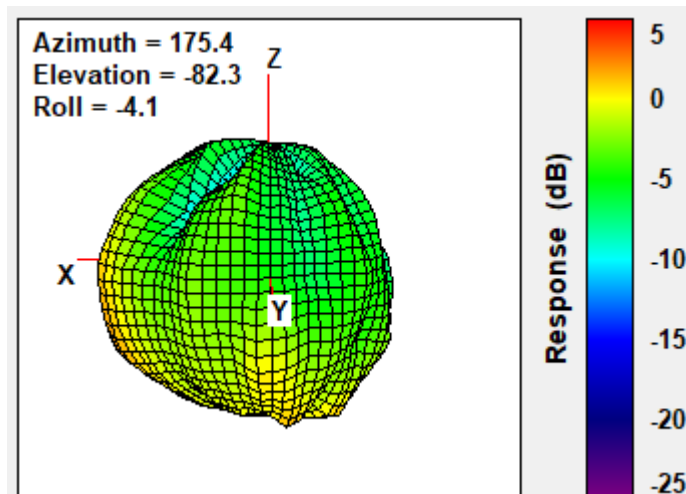
## Max Antenna 3D Radiation Pattern 5470-5725 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5470-5725       | 1.10                          |



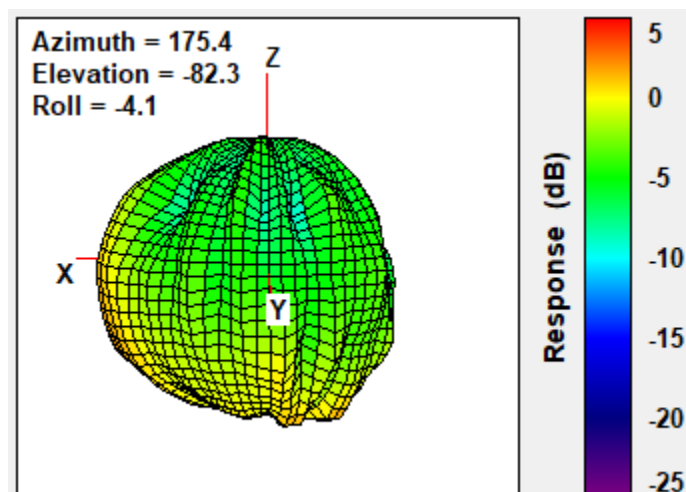
## Max Antenna 3D Radiation Pattern 5725-5850 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5725-5850       | 1.23                          |



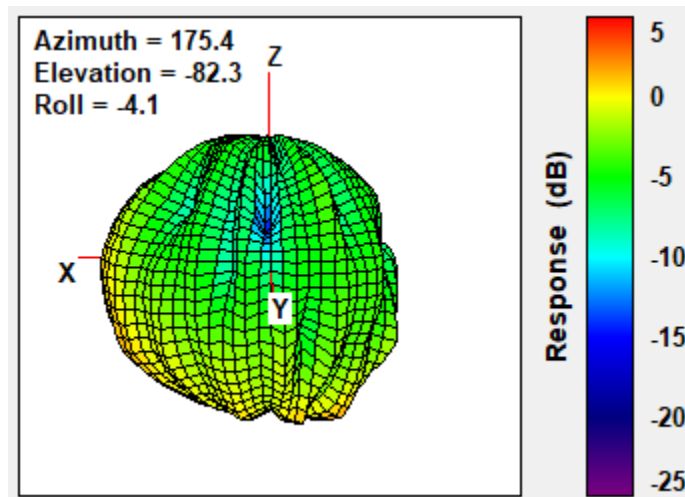
## Max Antenna 3D Radiation Pattern 5850-5895 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5850-5895       | 0.78                          |



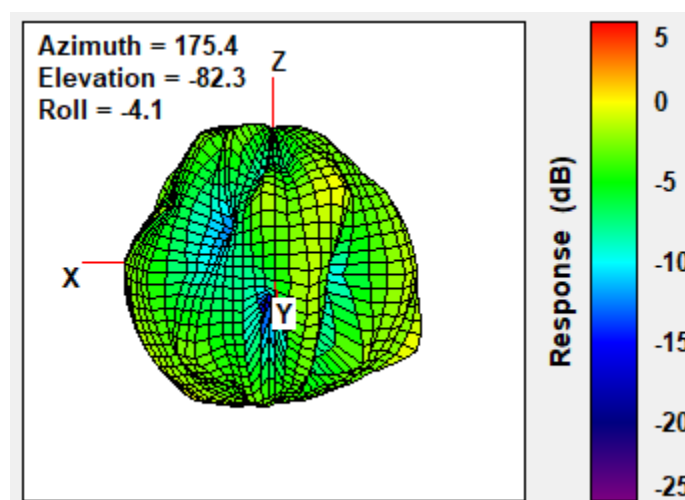
## Max Antenna 3D Radiation Pattern 5925-6425 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5925-6425       | 1.34                          |



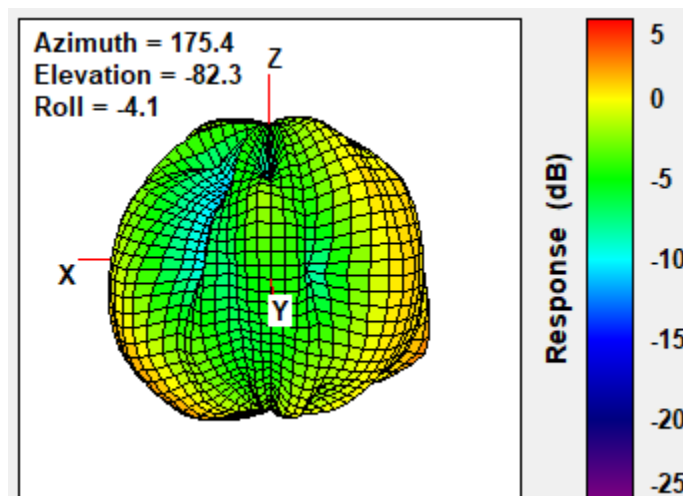
## Max Antenna 3D Radiation Pattern 6425-6525 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6425-6525       | 1.22                          |



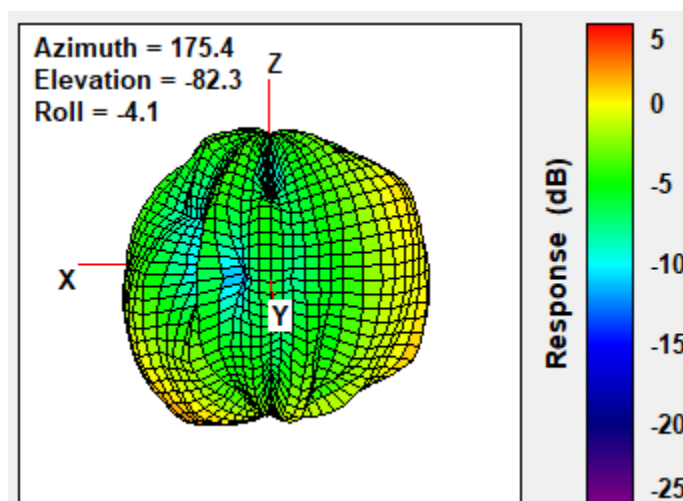
## Max Antenna 3D Radiation Pattern 6525-6875 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6525-6875       | 1.92                          |



## Max Antenna 3D Radiation Pattern 6875-7125 MHz

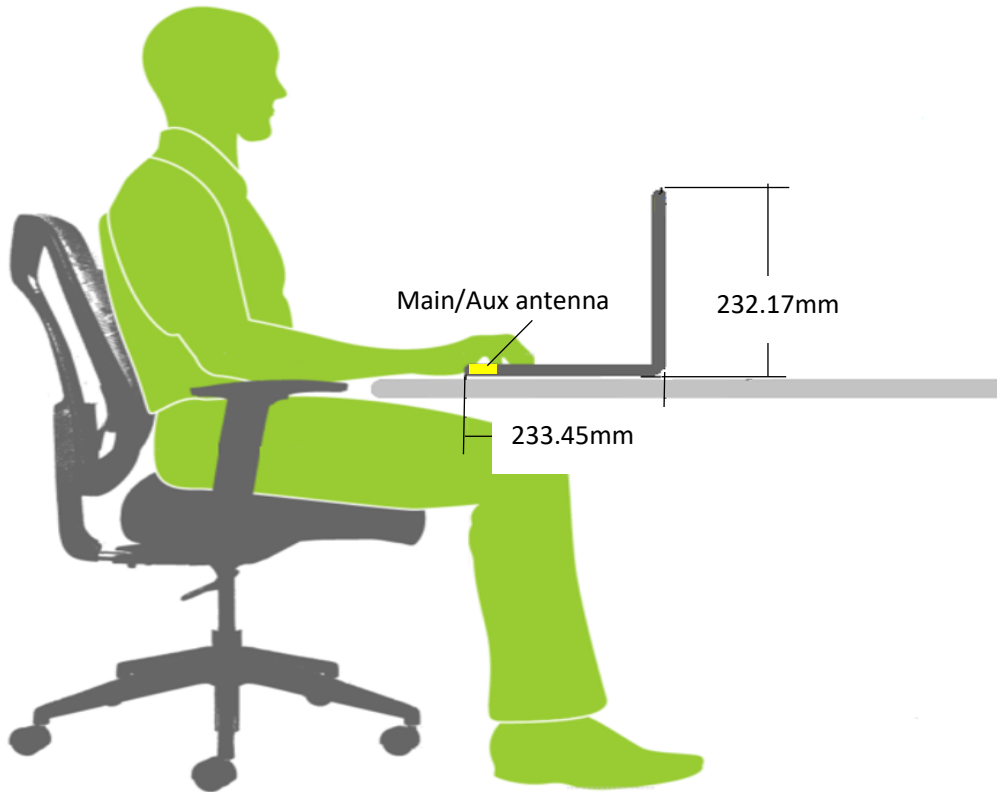
| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6875-7125       | 1.64                          |



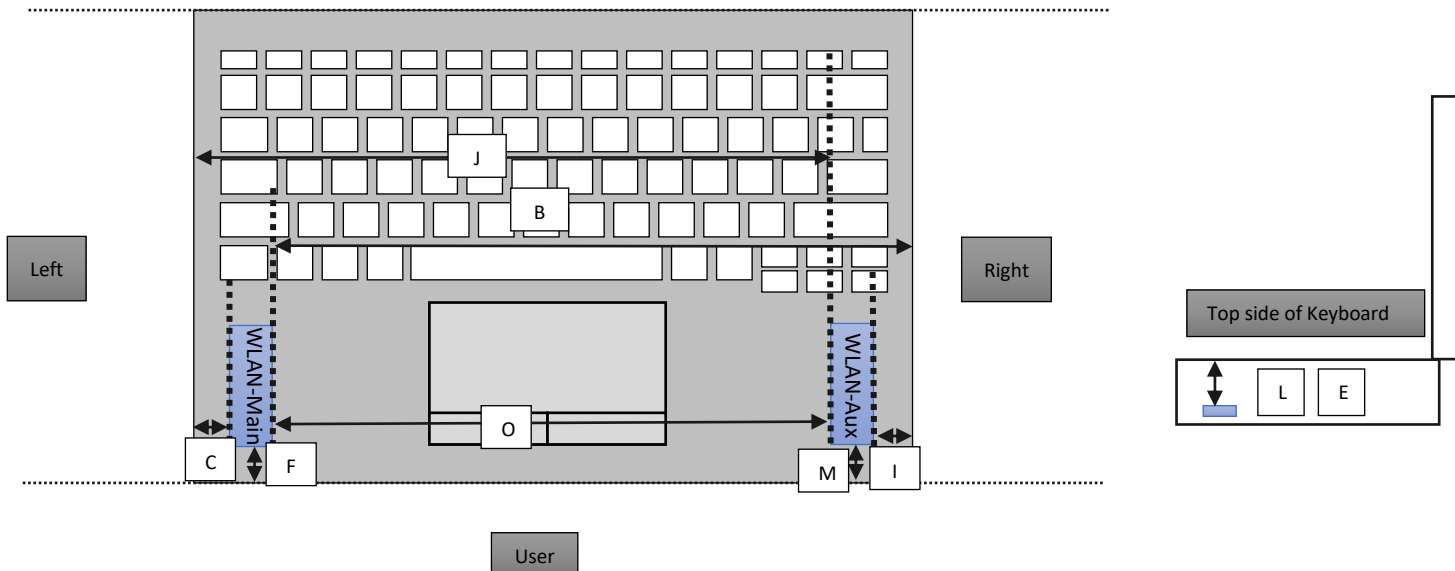
## B.2 Antenna dimensional information for SAR evaluation

Include a dimensioned photo(s) or dimensioned drawing(s) showing the distance (mm) between the transmit antennas and the user. For notebook/laptop hosts show lapheld position (example below). For tablet hosts show all orientations including lapheld, primary & secondary portrait, primary & secondary landscape positions. Include a description of any proximity sensors or power throttling implementations that limit or exclude use of any host orientation.

### Antennas on the panel section



## Antennas on the keyboard section



| Minimum Separation Distance |           |                         |               |               |
|-----------------------------|-----------|-------------------------|---------------|---------------|
| Item                        | Antenna   | Position                | Distance (mm) | 1g or 10g SAR |
| B                           | WLAN-Main | to Right                | 295.95        | 10g (ISED)    |
| C                           |           | to Left                 | 7.10          | 10g (ISED)    |
| E                           |           | To Top side of Keyboard | 1.15          | 10g (ISED)    |
| F                           |           | to User (front)         | 23.90         | 1g (ISED)     |
| I                           | WLAN-Aux  | to Right                | 7.10          | 10g (ISED)    |
| J                           |           | to Left                 | 295.95        | 10g (ISED)    |
| L                           |           | To Top side of Keyboard | 1.15          | 10g (ISED)    |
| M                           |           | to User (front)         | 23.90         | 1g (ISED)     |
| O                           | Main-Aux  | Main to Aux             | 276.40        |               |
| P                           | NB        | Bumper thickness        | 3.49          |               |