

# Regulatory WLAN Antenna Information (Template)

*English Language Required for Intel Regulatory Review / Approval*

**(OEM/ODM or antenna vendor is required to complete this document with platform antenna information.**

**Remove Intel references and make this your own document)**

| Platform information                                                                                                                                                           |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------|---------------------------------------|--------------------------------------------------------------|------------------------------|------------------------|-------------------------------|------------------------|------------------------|-------------------------|------------------------------------------|
| Brand                                                                                                                                                                          | ODM                         | ****End product model name | Intel platform<br>(ex: Yes, No or NA) | Platform type<br>(ex: regular NB, convertible PC, AIO...etc) | *SAR minimum separation (mm) |                        |                               |                        |                        |                         |                                          |
| Acer                                                                                                                                                                           | Quanta                      | Craask_bowl                | Yes                                   | Convertible                                                  |                              |                        |                               |                        |                        |                         |                                          |
| *****Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection.           |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |
| Antenna information                                                                                                                                                            |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |
| Vendor                                                                                                                                                                         |                             | Type                       | Antenna Part number (Main)            |                                                              |                              |                        | Antenna Part number (Aux)     |                        |                        |                         |                                          |
| WNC                                                                                                                                                                            |                             | PIFA                       | DQ6U15G7201<br>(81EABU15.G72)         |                                                              |                              |                        | DQ6U15G7201<br>(81EABU15.G72) |                        |                        |                         |                                          |
| Peak gain w/ cable loss (dBi)* Open Mode                                                                                                                                       |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |
|                                                                                                                                                                                | 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                                                                                                                                                                           | 2.86                        | 1.43                       | 1.14                                  | 2.07                                                         | 2.08                         | 2.08                   | 1.70                          | 1.58                   | 1.58                   | 1.99                    |                                          |
| Aux                                                                                                                                                                            | 2.75                        | 1.70                       | 1.58                                  | 2.21                                                         | 2.87                         | 2.87                   | 3.74                          | 3.23                   | 3.84                   | 3.70                    |                                          |
| Peak gain w/ cable loss (dBi)* Tablet Mode                                                                                                                                     |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |
|                                                                                                                                                                                | 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                                                                                                                                                                           | 1.74                        | 0.29                       | 0.50                                  | 1.18                                                         | 2.84                         | 2.84                   | 3.31                          | 1.56                   | 1.53                   | 1.94                    |                                          |
| Aux                                                                                                                                                                            | 2.80                        | 1.58                       | 1.58                                  | 1.51                                                         | 1.51                         | 1.51                   | 2.78                          | 3.71                   | 3.71                   | 3.79                    |                                          |
| Intel Reference Gain/Type/ Separation distance                                                                                                                                 |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |
| Antenna Type                                                                                                                                                                   | Antenna Peak gain (In dBi)* |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         | Distance to the end user (mm)            |
|                                                                                                                                                                                | 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 | 7.0GHz<br>6875-7125MHz  | Generic: refer to modular FCC SAR report |
| Design                                                                                                                                                                         | 3.00                        | 5.00                       | 5.00                                  | 5.00                                                         | 5.00                         | 5.00                   | 5.00                          | 5.00                   | 5.00                   | 5.00                    | Mid-power: ≥ 8 mm<br>Low power: ≥ 5 mm   |
| PIFA                                                                                                                                                                           | 3.24                        | 3.64                       | 3.73                                  | 4.77                                                         | 4.97                         | 4.72                   | 4.83                          | 4.30                   | 5.37                   | 5.59                    |                                          |
| Dipole                                                                                                                                                                         | 2.89                        | 2.92                       | 3.19                                  | 4.41                                                         | 4.22                         | 4.22                   | 4.83                          | 4.30                   | 4.49                   | 5.34                    |                                          |
| Notes (marked with *)                                                                                                                                                          |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |
| * SAR minimum separation (mm)                                                                                                                                                  |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |
| - Regular NB: Minimum antenna-to-body (from antenna bottom to the bottom of the device)                                                                                        |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |
| - Tablet / Convertible PC: Minimum antenna-to-edge (5 sides of the device)                                                                                                     |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |
| - Mini-tablet: Minimum antenna-to-edge (6 sides of the device)                                                                                                                 |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |
| * 3D Peak Antenna gain should be equal or greater than -2 dBi                                                                                                                  |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |
| - If a host integrator plans to use a lower gain antenna of the same type, additional CBP(FCC)/EDT(EU) testing need to be performed while the module is installed in the host. |                             |                            |                                       |                                                              |                              |                        |                               |                        |                        |                         |                                          |

# Antenna Information

## Section 1. Antenna Assembly Specifications

Open Mode

| 1A                                           | 1B           | 1C           | 1D                                                                            |                | 1E                              | 1F                             | 1G       | 1H              |
|----------------------------------------------|--------------|--------------|-------------------------------------------------------------------------------|----------------|---------------------------------|--------------------------------|----------|-----------------|
| Antenna Part Number                          | Manufacturer | Antenna Type | Cable Assembly Part Number and Information                                    | Freq Range MHz | * Peak Gain W/ Cable loss (dBi) | Peak Gain w/o Cable Loss (dBi) | Max VSWR | Cable Loss (dB) |
| (P/N: DQ6U15G7201 81EABU15.G72) Main Antenna | WNC          | PIFA         | 50 ohm Coaxial length: 294mm diameter: 1.13mm I-pex MHF4L (P/N:20565-001R-13) | 2400-2483.5    | 2.86                            | 3.92                           | 3        | 1.06            |
|                                              |              |              |                                                                               | 5150-5250      | 1.43                            | 2.97                           | 3        | 1.54            |
|                                              |              |              |                                                                               | 5250-5350      | 1.14                            | 2.70                           | 3        | 1.56            |
|                                              |              |              |                                                                               | 5470-5725      | 2.07                            | 3.68                           | 3        | 1.61            |
|                                              |              |              |                                                                               | 5725-5850      | 2.08                            | 3.72                           | 3        | 1.64            |
|                                              |              |              |                                                                               | 5850-5895      | 2.08                            | 3.74                           | 3        | 1.66            |
|                                              |              |              |                                                                               | 5925-6425      | 1.70                            | 3.41                           | 3        | 1.71            |
|                                              |              |              |                                                                               | 6425-6525      | 1.58                            | 3.35                           | 3        | 1.77            |
|                                              |              |              |                                                                               | 6525-6875      | 1.58                            | 3.40                           | 3        | 1.82            |
|                                              |              |              |                                                                               | 6875-7125      | 1.99                            | 3.87                           | 3        | 1.88            |
| (P/N: DQ6U15G7201 81EABU15.G72) Aux Antenna  | WNC          | PIFA         | 50 ohm Coaxial length: 465mm diameter: 1.13mm I-pex MHF4L (P/N:20565-001R-13) | 2400-2483.5    | 2.75                            | 4.04                           | 3        | 1.29            |
|                                              |              |              |                                                                               | 5150-5250      | 1.70                            | 3.60                           | 3        | 1.90            |
|                                              |              |              |                                                                               | 5250-5350      | 1.58                            | 3.50                           | 3        | 1.92            |
|                                              |              |              |                                                                               | 5470-5725      | 2.21                            | 4.19                           | 3        | 1.98            |
|                                              |              |              |                                                                               | 5725-5850      | 2.87                            | 4.88                           | 3        | 2.01            |
|                                              |              |              |                                                                               | 5850-5895      | 2.87                            | 4.90                           | 3        | 2.03            |
|                                              |              |              |                                                                               | 5925-6425      | 3.74                            | 5.83                           | 3        | 2.09            |
|                                              |              |              |                                                                               | 6425-6525      | 3.23                            | 5.38                           | 3        | 2.15            |
|                                              |              |              |                                                                               | 6525-6875      | 3.84                            | 6.04                           | 3        | 2.20            |
|                                              |              |              |                                                                               | 6875-7125      | 3.70                            | 5.97                           | 3        | 2.27            |

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

Tablet mode

| 1A                                           | 1B           | 1C           | 1D                                                                            |                | 1E                              | 1F                             | 1G       | 1H              |
|----------------------------------------------|--------------|--------------|-------------------------------------------------------------------------------|----------------|---------------------------------|--------------------------------|----------|-----------------|
| Antenna Part Number                          | Manufacturer | Antenna Type | Cable Assembly Part Number and Information                                    | Freq Range MHz | * Peak Gain W/ Cable loss (dBi) | Peak Gain w/o Cable Loss (dBi) | Max VSWR | Cable Loss (dB) |
| (P/N: DQ6U15G7201 81EABU15.G72) Main Antenna | WNC          | PIFA         | 50 ohm Coaxial length: 294mm diameter: 1.13mm I-pex MHF4L (P/N:20565-001R-13) | 2400-2483.5    | 1.74                            | 2.80                           | 3        | 1.06            |
|                                              |              |              |                                                                               | 5150-5250      | 0.29                            | 1.83                           | 3        | 1.54            |
|                                              |              |              |                                                                               | 5250-5350      | 0.50                            | 2.06                           | 3        | 1.56            |
|                                              |              |              |                                                                               | 5470-5725      | 1.18                            | 2.79                           | 3        | 1.61            |
|                                              |              |              |                                                                               | 5725-5850      | 2.84                            | 4.48                           | 3        | 1.64            |
|                                              |              |              |                                                                               | 5850-5895      | 2.84                            | 4.50                           | 3        | 1.66            |
|                                              |              |              |                                                                               | 5925-6425      | 3.31                            | 5.08                           | 3        | 1.77            |
|                                              |              |              |                                                                               | 6425-6525      | 1.56                            | 3.38                           | 3        | 1.82            |
|                                              |              |              |                                                                               | 6525-6875      | 1.53                            | 3.41                           | 3        | 1.88            |
|                                              |              |              |                                                                               | 6875-7125      | 1.94                            | 3.71                           | 3        | 1.77            |
| (P/N: DQ6U15G7201 81EABU15.G72) Aux Antenna  | WNC          | PIFA         | 50 ohm Coaxial length: 465mm diameter: 1.13mm I-pex MHF4L (P/N:20565-001R-13) | 2400-2483.5    | 2.80                            | 4.09                           | 3        | 1.29            |
|                                              |              |              |                                                                               | 5150-5250      | 1.58                            | 3.48                           | 3        | 1.90            |
|                                              |              |              |                                                                               | 5250-5350      | 1.58                            | 3.50                           | 3        | 1.92            |
|                                              |              |              |                                                                               | 5470-5725      | 1.51                            | 3.49                           | 3        | 1.98            |
|                                              |              |              |                                                                               | 5725-5850      | 1.51                            | 3.52                           | 3        | 2.01            |
|                                              |              |              |                                                                               | 5850-5895      | 1.51                            | 3.54                           | 3        | 2.03            |
|                                              |              |              |                                                                               | 5925-6425      | 2.78                            | 4.87                           | 3        | 2.09            |
|                                              |              |              |                                                                               | 6425-6525      | 3.71                            | 5.86                           | 3        | 2.15            |
|                                              |              |              |                                                                               | 6525-6875      | 3.71                            | 5.91                           | 3        | 2.20            |
|                                              |              |              |                                                                               | 6875-7125      | 3.79                            | 6.06                           | 3        | 2.27            |

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

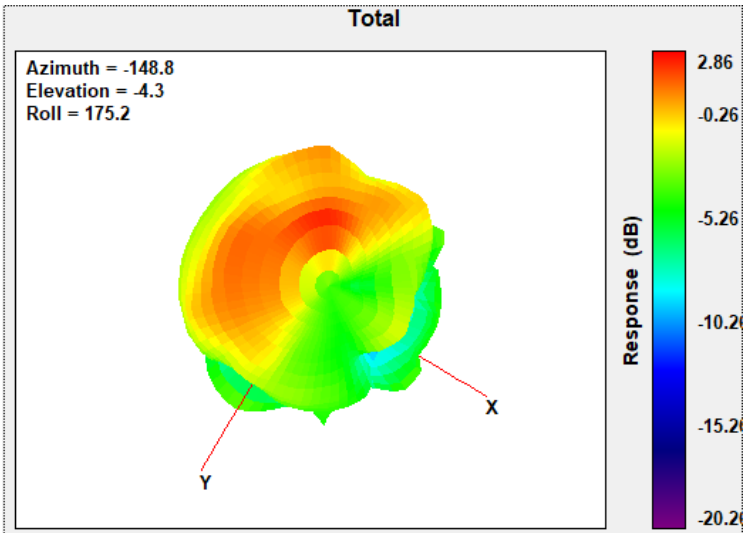
Section 3. Radiation characteristics of antenna loaded in Host Platform

Opne Mode

Main Antenna

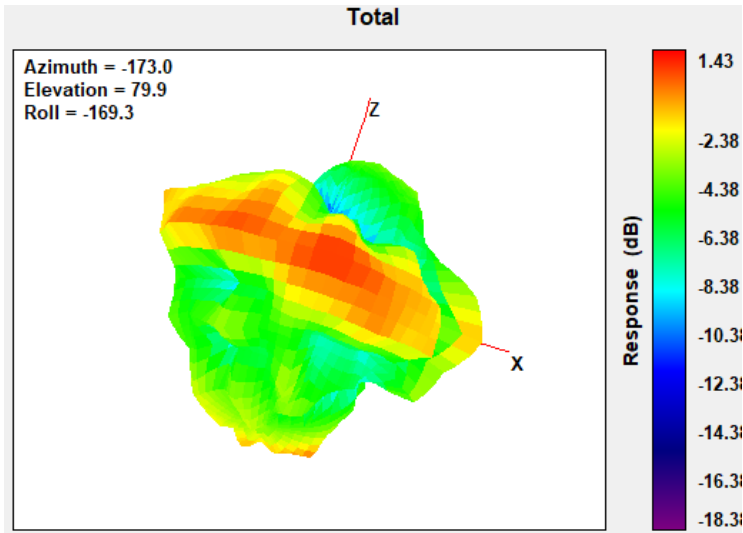
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 2400-2483.5     | 2.86                          |



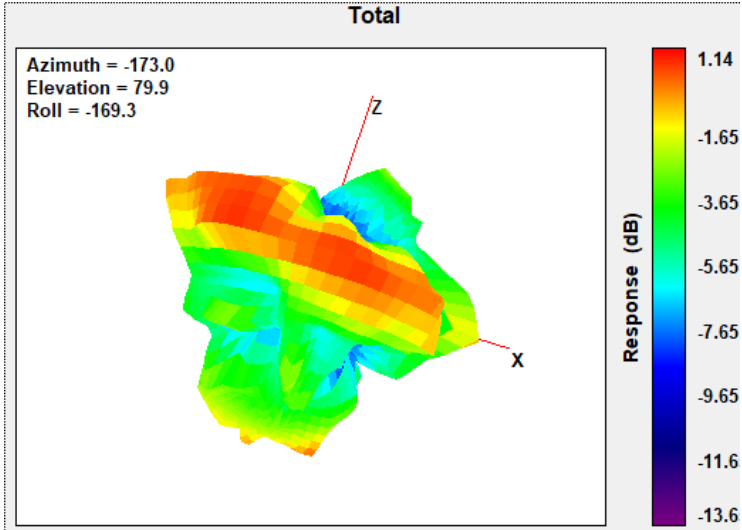
Max Antenna 3D Radiation Pattern 5150-5250 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5150-5250       | 1.43                          |



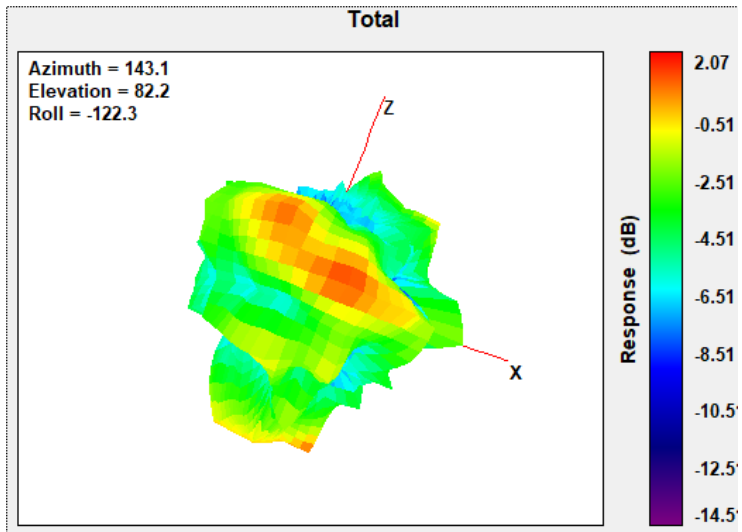
Max Antenna 3D Radiation Pattern 5250-5350 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5250-5350       | 1.14                          |



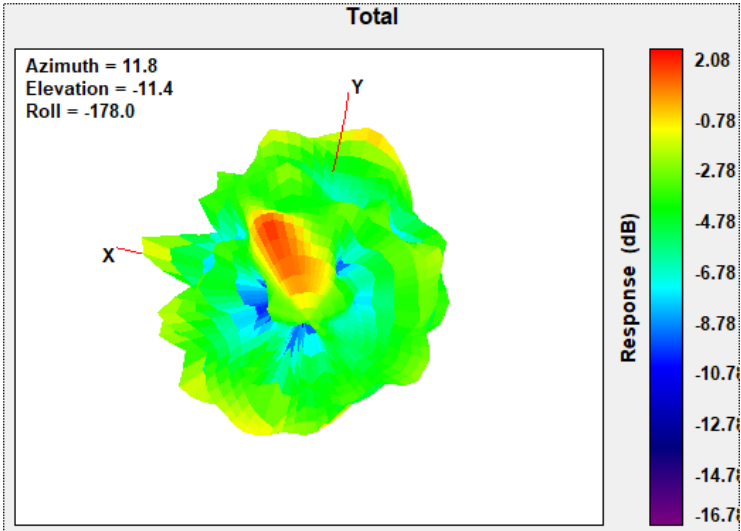
Max Antenna 3D Radiation Pattern 5470-5725 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5470-5725       | 2.07                          |



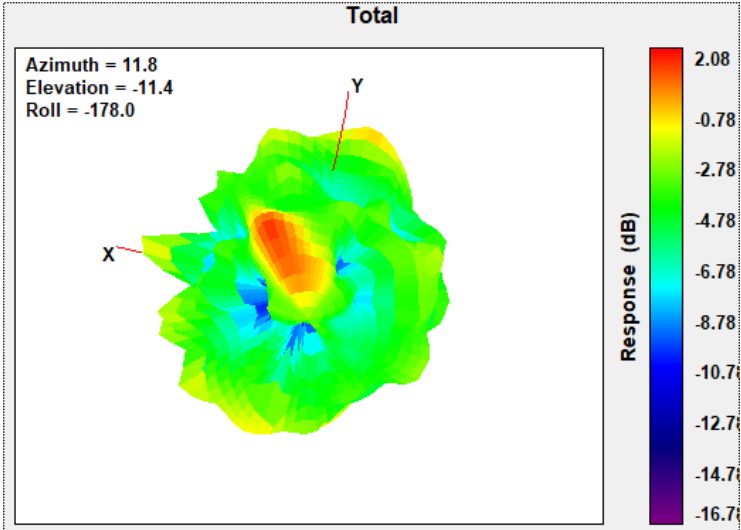
Max Antenna 3D Radiation Pattern 5725-5850 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5725-5850       | 2.08                          |



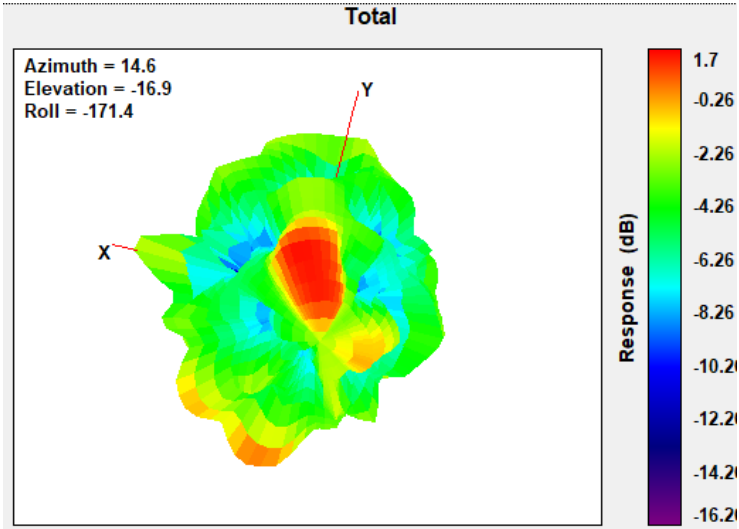
Max Antenna 3D Radiation Pattern 5850-5895 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5850-5895       | 2.08                          |



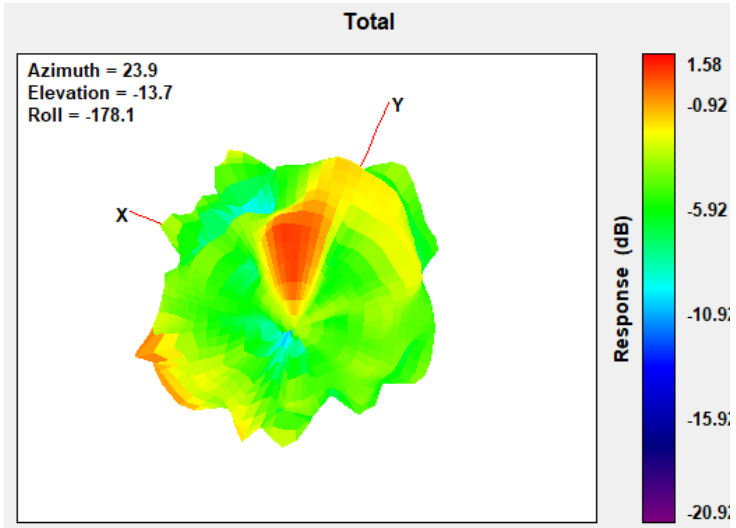
Max Antenna 3D Radiation Pattern 5925-6425 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5925-6425       | 1.7                           |



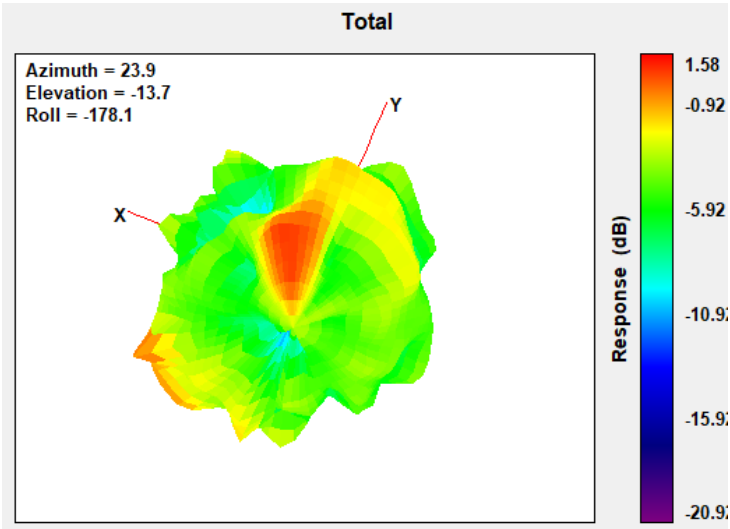
Max Antenna 3D Radiation Pattern 6425-6525 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6425-6525       | 1.58                          |



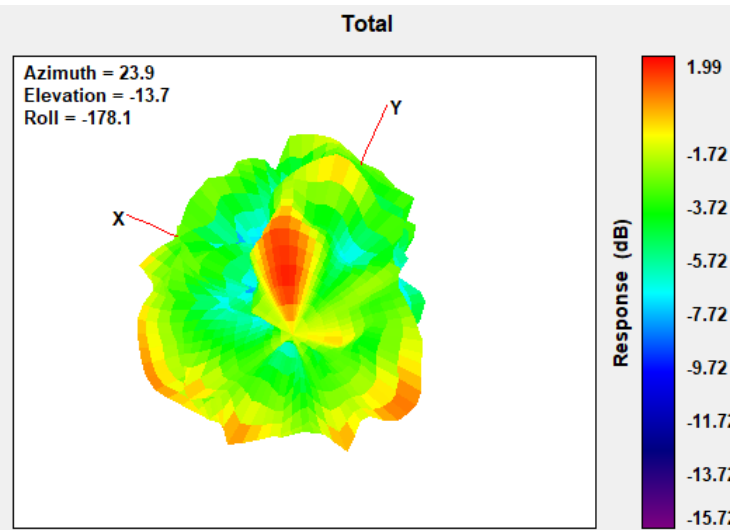
Max Antenna 3D Radiation Pattern 6525-6875 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6525-6875       | 1.58                          |



Max Antenna 3D Radiation Pattern 6875-7125 MHz

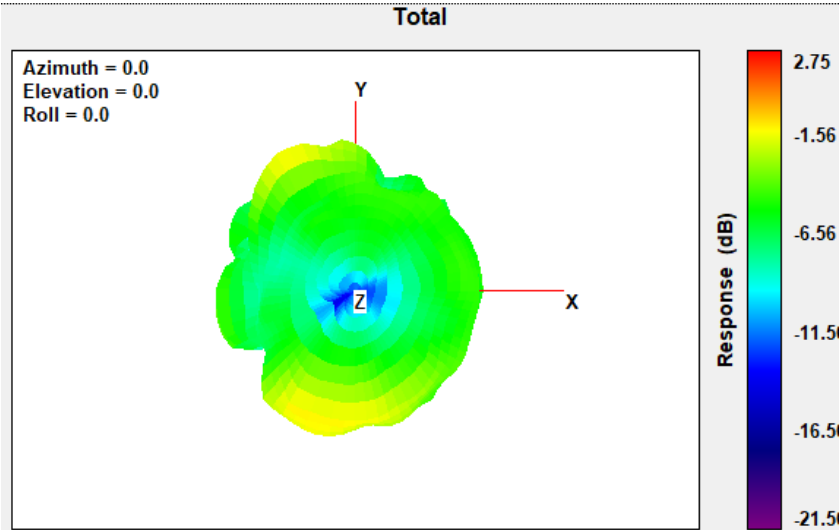
| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6875-7125       | 1.99                          |



Auxiliary Antenna

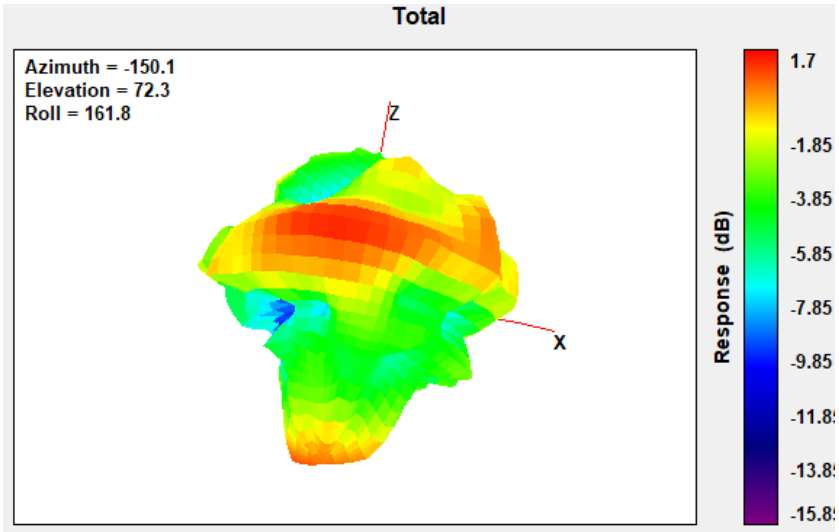
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

| Frequency<br>(MHz) | Peak Gain w/ Cable Loss<br>(dBi) |
|--------------------|----------------------------------|
| 2400-2483.5        | 2.75                             |



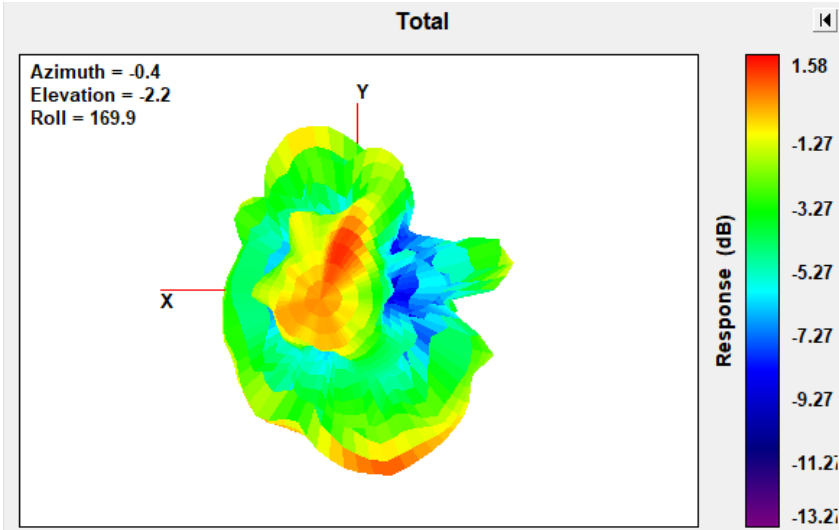
Max Antenna 3D Radiation Pattern 5150-5250 MHz

| Frequency<br>(MHz) | Peak Gain w/ Cable Loss<br>(dBi) |
|--------------------|----------------------------------|
| 5150-5250          | 1.7                              |



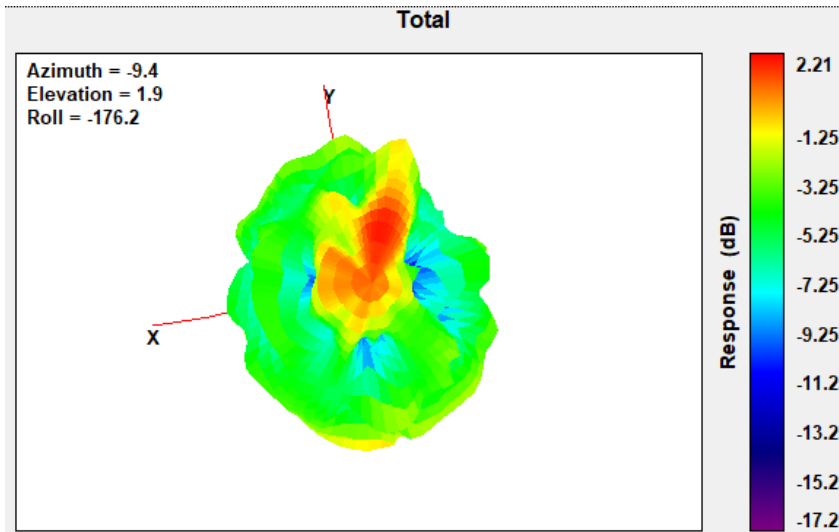
Max Antenna 3D Radiation Pattern 5250-5350 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5250-5350       | 1.58                          |



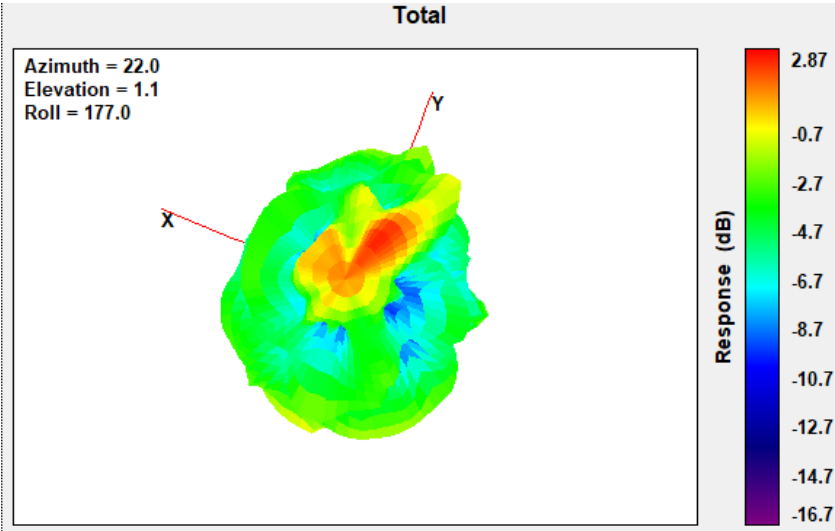
Max Antenna 3D Radiation Pattern 5470-5725 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5470-5725       | 2.21                          |



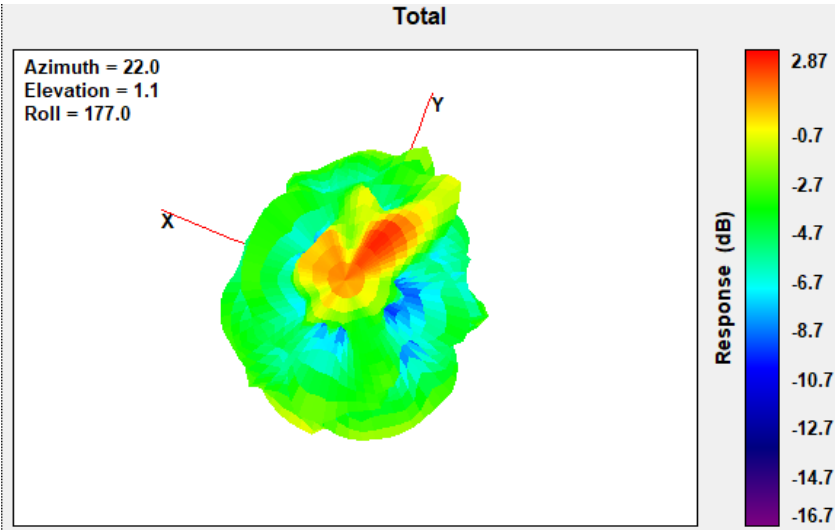
Max Antenna 3D Radiation Pattern 5725-5850 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5725-5850       | 2.87                          |



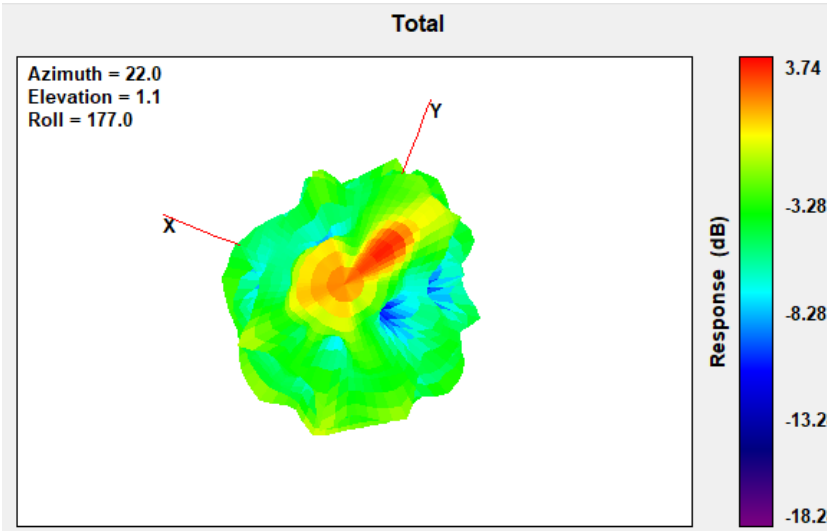
Max Antenna 3D Radiation Pattern 5850-5895 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5850-5895       | 2.87                          |



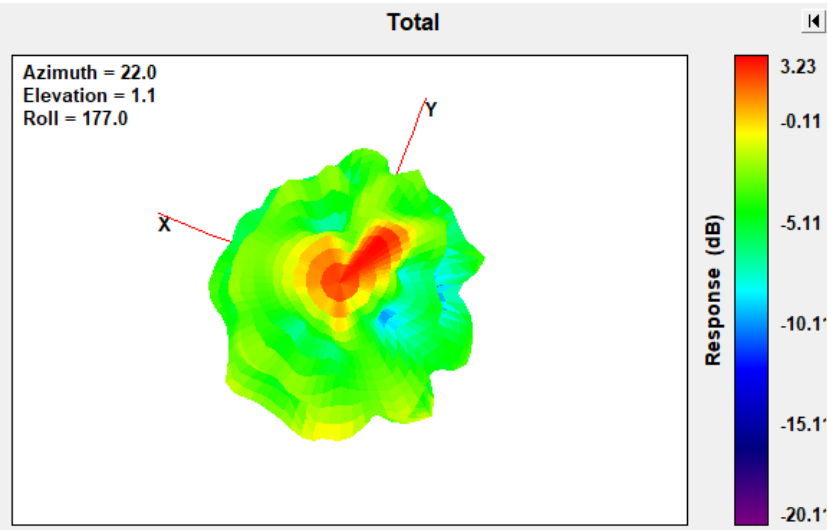
Max Antenna 3D Radiation Pattern 5925-6425 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5925-6425       | 3.74                          |



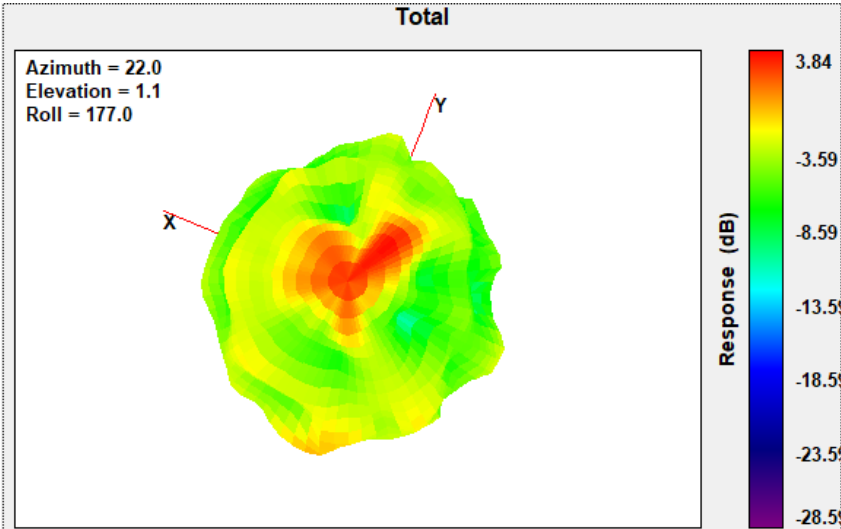
Max Antenna 3D Radiation Pattern 6425-6525 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6425-6525       | 3.23                          |



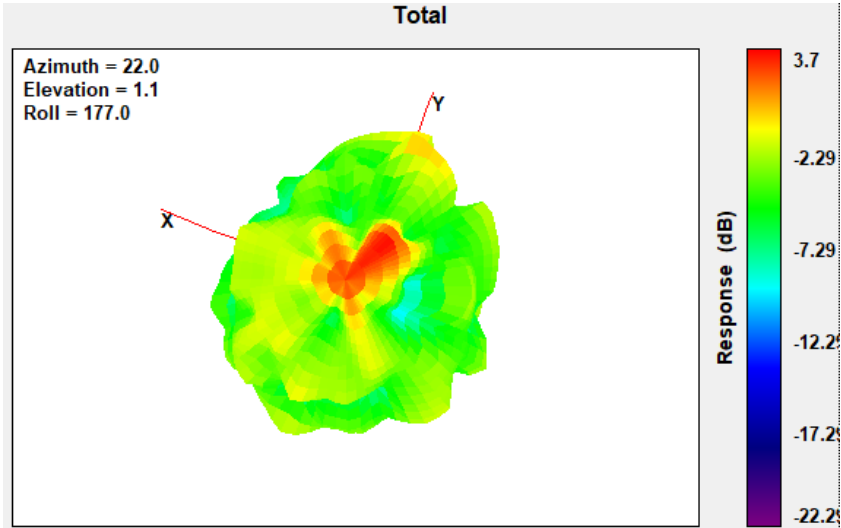
Max Antenna 3D Radiation Pattern 6525-6875 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6525-6875       | 3.84                          |



Max Antenna 3D Radiation Pattern 6875-7125 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6875-7125       | 3.7                           |

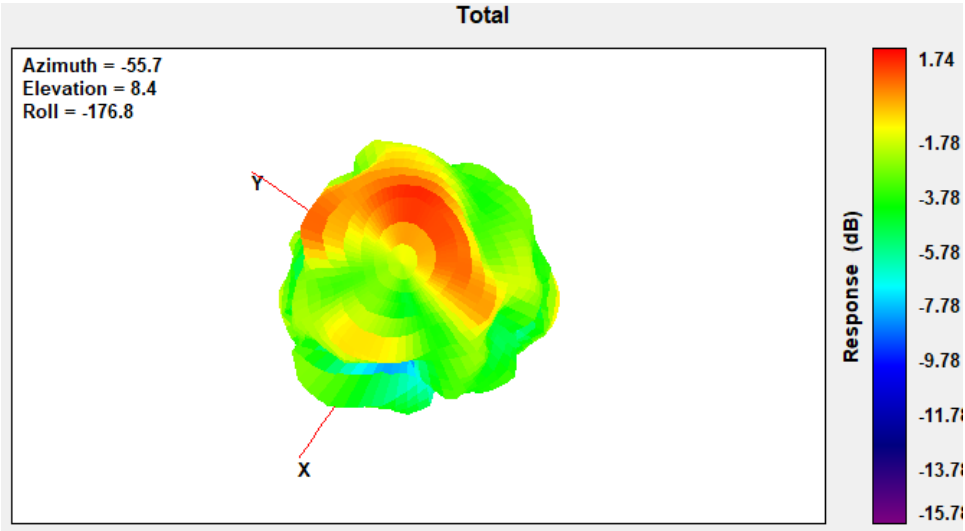


Tablet Mode

Main Antenna

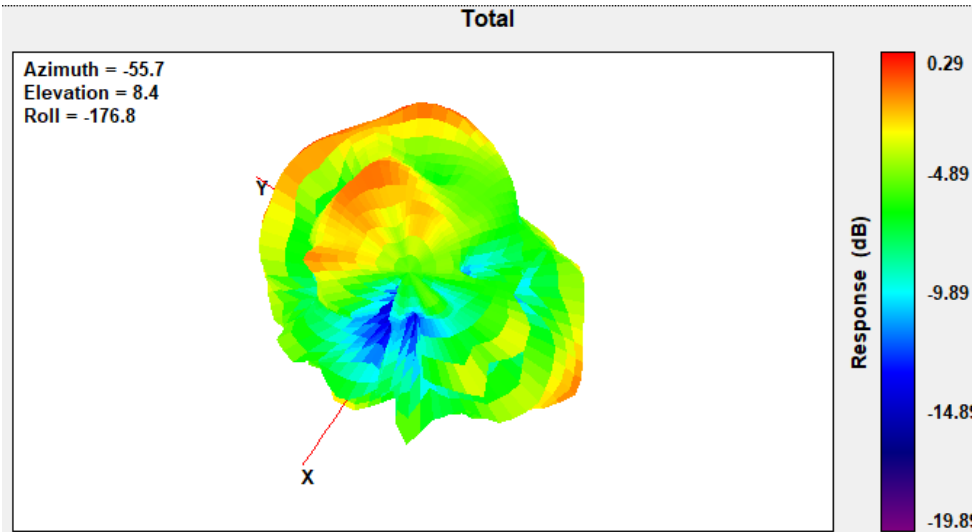
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 2400-2483.5     | 1.74                          |



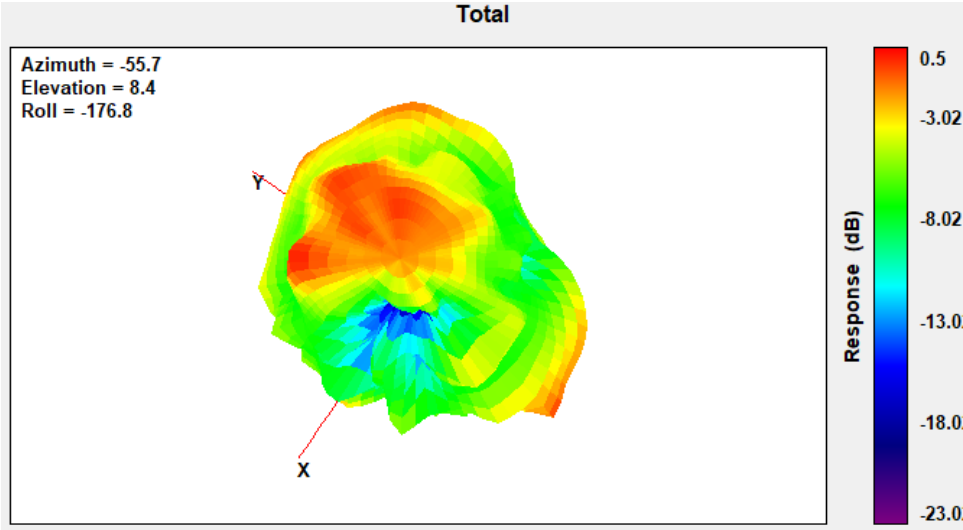
Max Antenna 3D Radiation Pattern 5150-5250 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5150-5250       | 0.29                          |



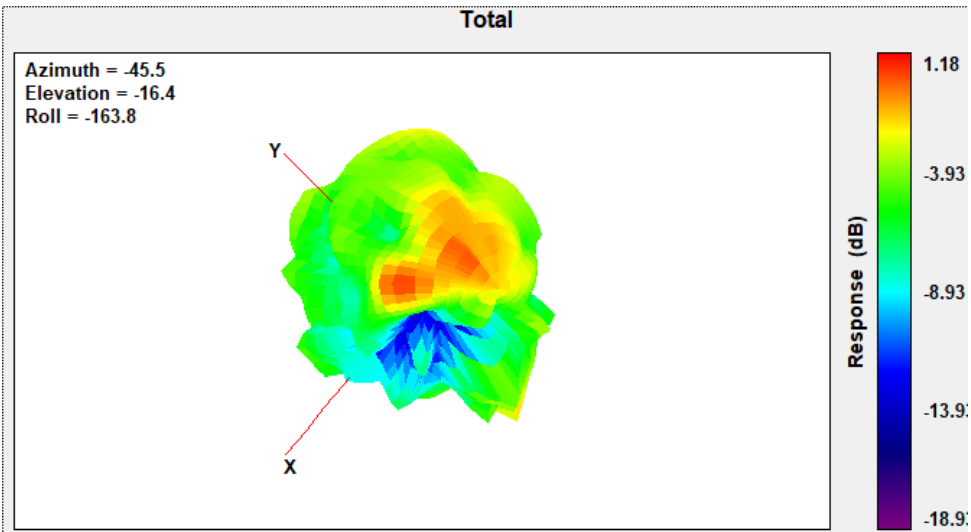
Max Antenna 3D Radiation Pattern 5250-5350 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5250-5350       | 0.5                           |



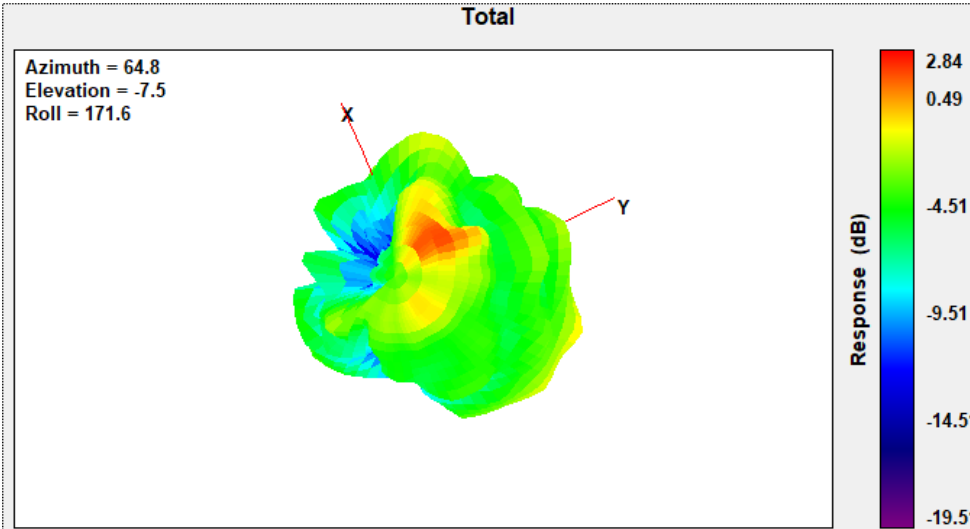
Max Antenna 3D Radiation Pattern 5470-5725 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5470-5725       | 1.18                          |



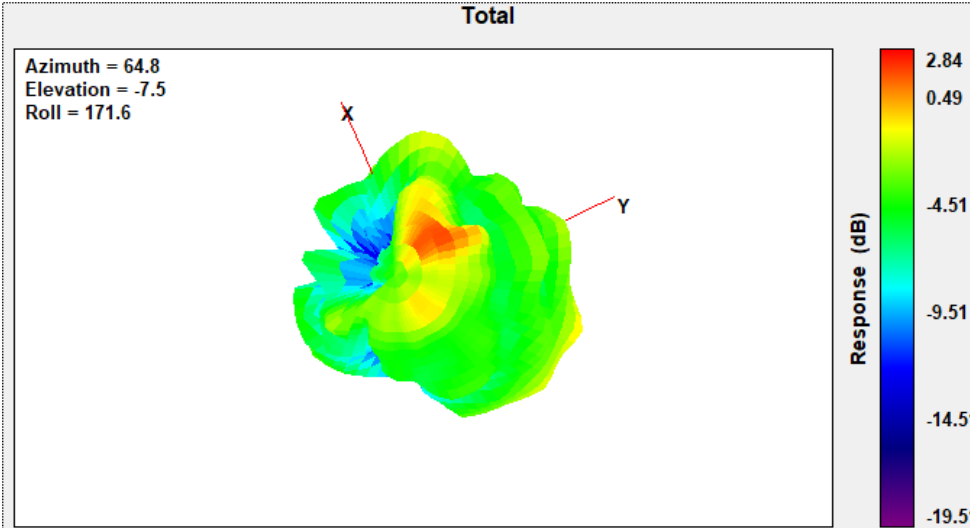
Max Antenna 3D Radiation Pattern 5725-5850 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5725-5850       | 2.84                          |



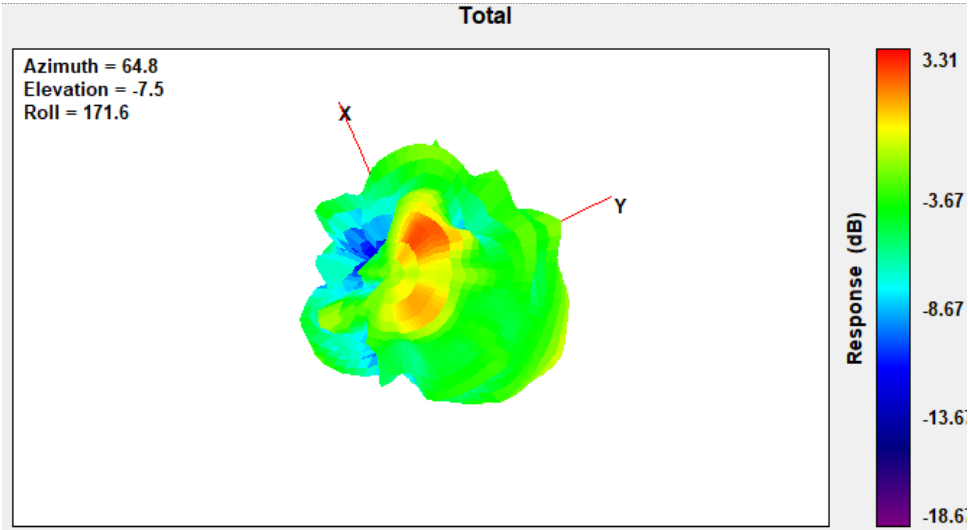
Max Antenna 3D Radiation Pattern 5850-5895 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5850-5895       | 2.84                          |



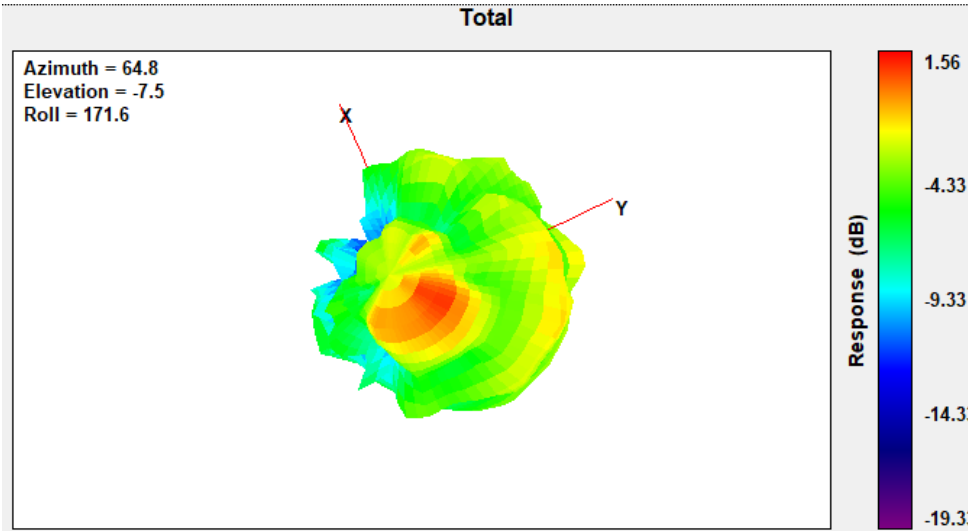
Max Antenna 3D Radiation Pattern 5925-6425 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5925-6425       | 3.31                          |



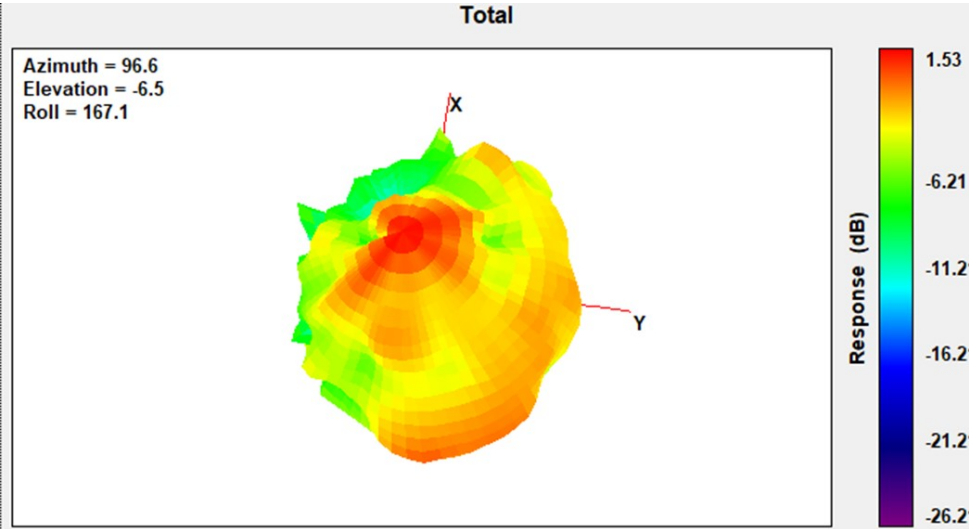
Max Antenna 3D Radiation Pattern 6425-6525 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6425-6525       | 1.56                          |



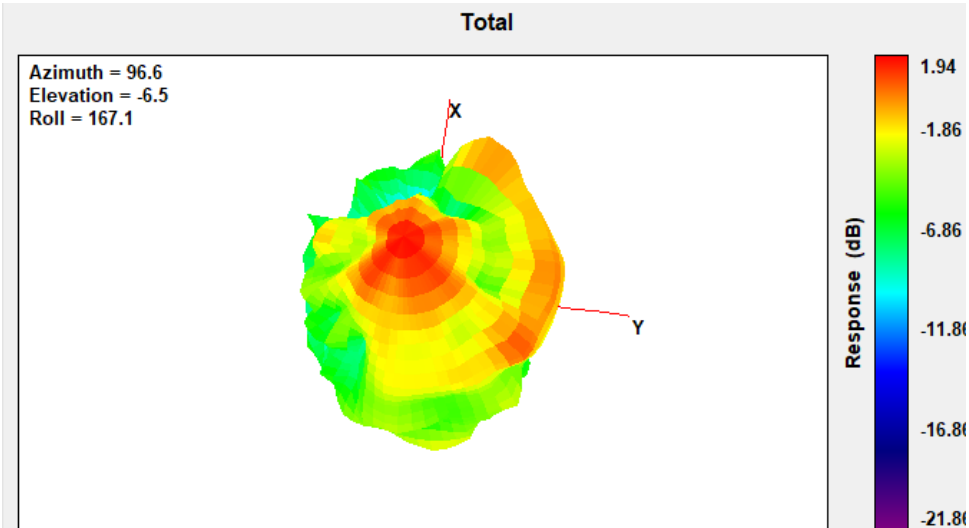
Max Antenna 3D Radiation Pattern 6525-6875 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6525-6875       | 1.53                          |



Max Antenna 3D Radiation Pattern 6875-7125 MHz

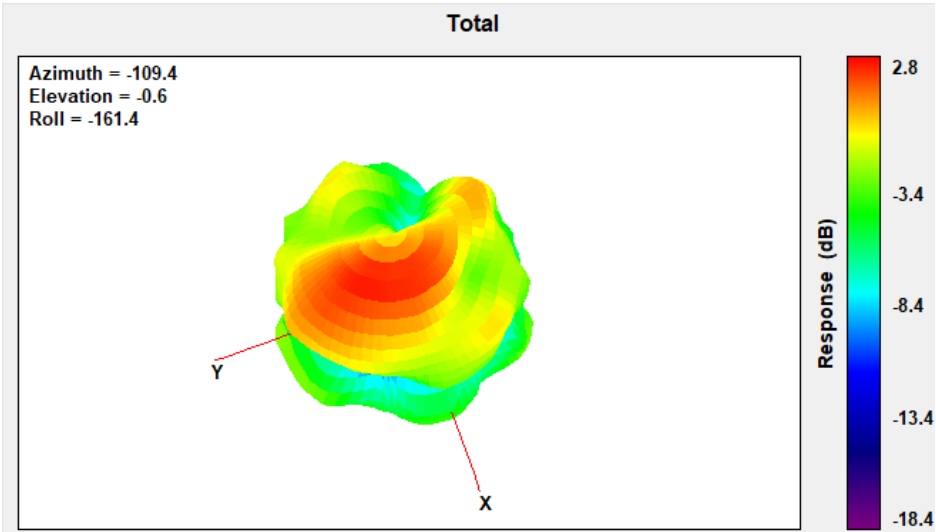
| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6875-7125       | 1.94                          |



Auxiliary Antenna

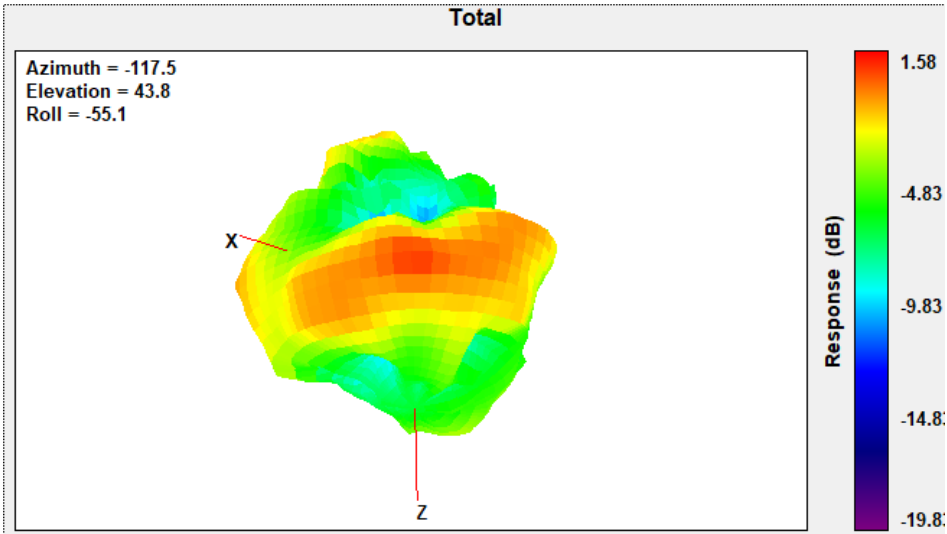
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 2400-2483.5     | 2.8                           |



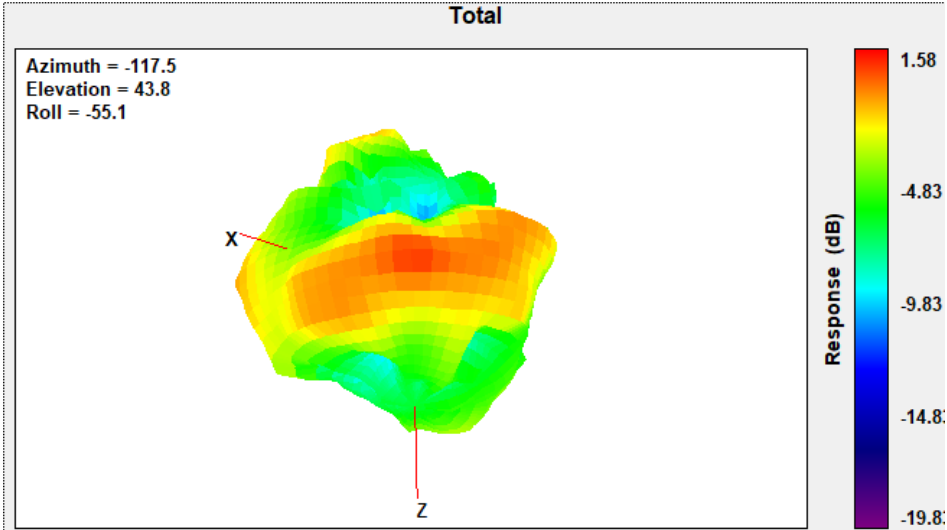
Max Antenna 3D Radiation Pattern 5150-5250 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5150-5250       | 1.58                          |



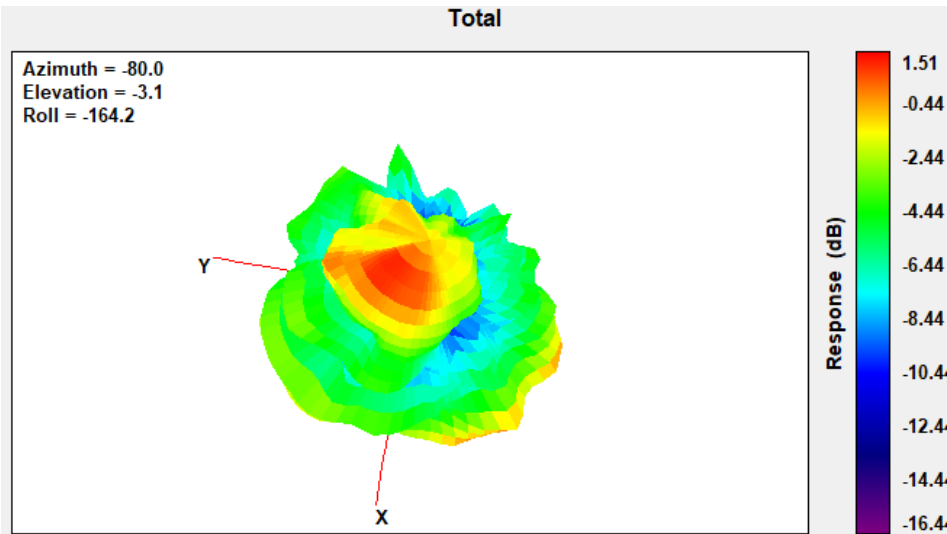
Max Antenna 3D Radiation Pattern 5250-5350 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5250-5350       | 1.58                          |



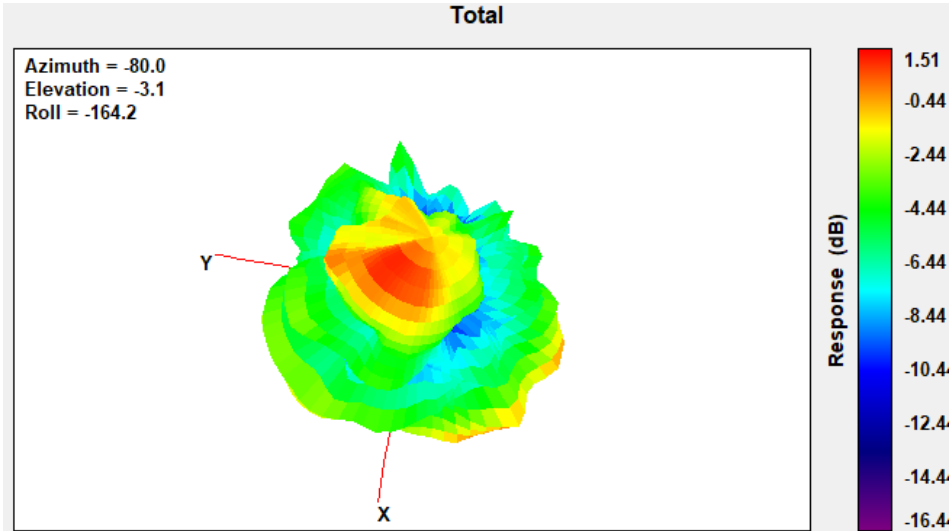
Max Antenna 3D Radiation Pattern 5470-5725 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5470-5725       | 1.51                          |



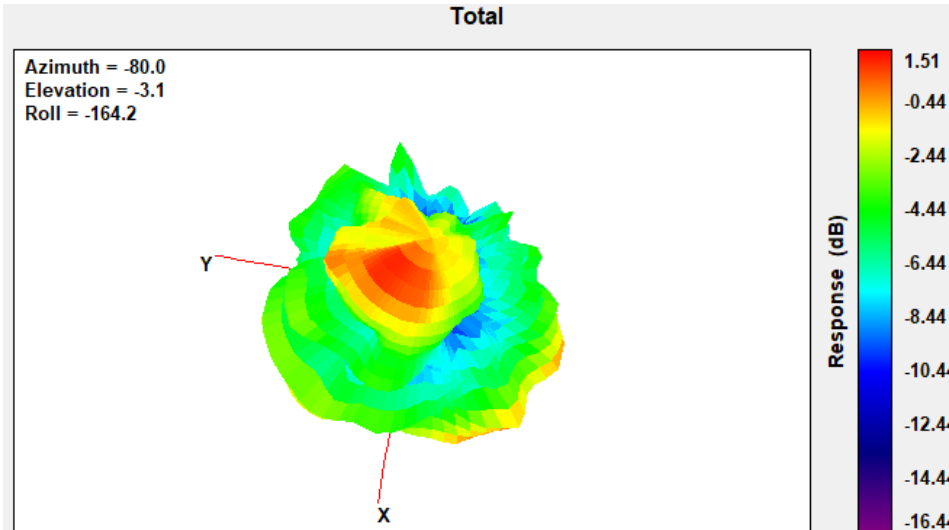
Max Antenna 3D Radiation Pattern 5725-5850 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5725-5850       | 1.51                          |



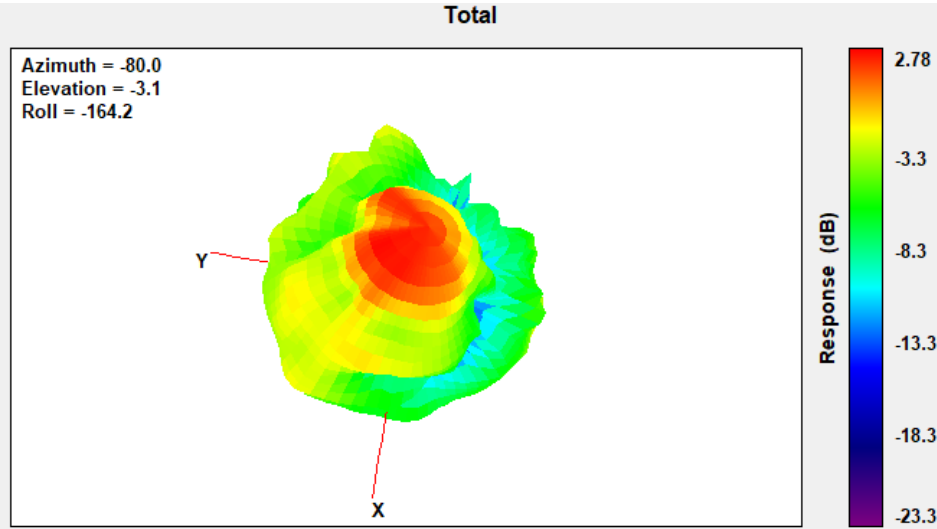
Max Antenna 3D Radiation Pattern 5850-5895 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5850-5895       | 1.51                          |



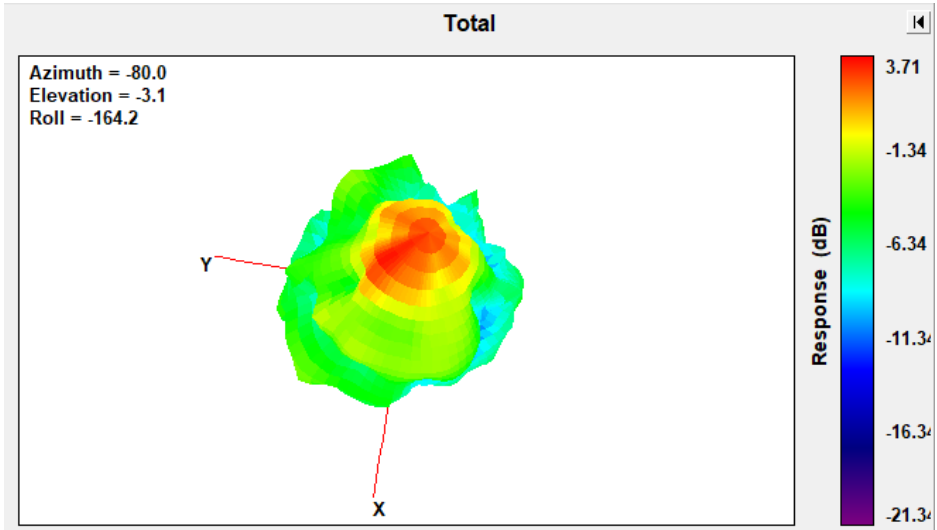
Max Antenna 3D Radiation Pattern 5925-6425 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5925-6425       | 2.78                          |



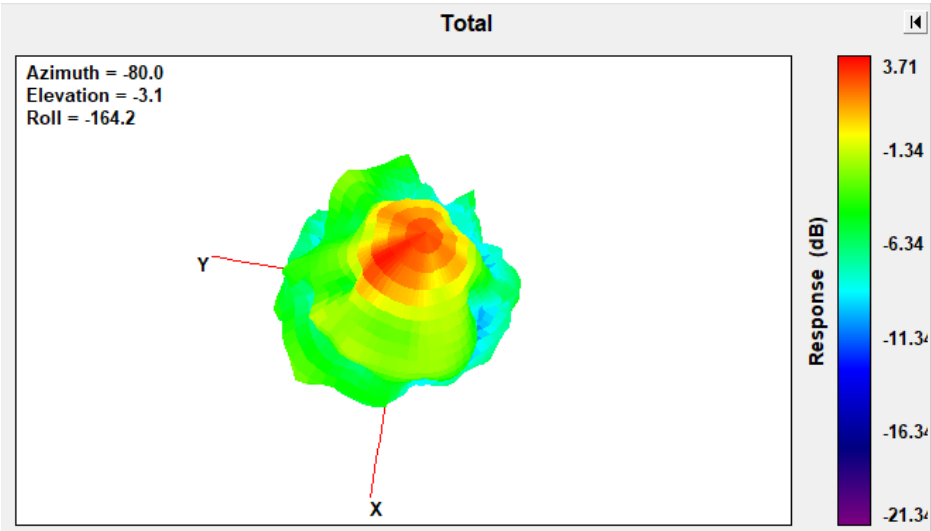
Max Antenna 3D Radiation Pattern 6425-6525 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6425-6525       | 3.71                          |



Max Antenna 3D Radiation Pattern 6525-6875 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6525-6875       | 3.71                          |



Max Antenna 3D Radiation Pattern 6875-7125 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6875-7125       | 3.79                          |

