

# Regulatory WLAN Antenna Information

| Antenna information            |                           |                        |                        |                        |                        |                                |                        |                                |                        |                         |
|--------------------------------|---------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------------|------------------------|--------------------------------|------------------------|-------------------------|
| Vendor                         |                           |                        | Type                   |                        |                        | Antenna Part number (Main)     |                        | Antenna Part number (Aux)      |                        |                         |
| AWAN                           |                           |                        | PIFA                   |                        |                        | 14008-06650000<br>AYP6Y-100776 |                        | 14008-06650100<br>AYP6Y-100777 |                        |                         |
| Peak gain w/ cable loss (dBi)* |                           |                        |                        |                        |                        |                                |                        |                                |                        |                         |
|                                | 2.4GHz<br>2400-2483.5 MHz | 5.2GHz<br>5150-5250MHz | 5.3GHz<br>5250-5350MHz | 5.5GHz<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 | 6.9 GHz<br>6875-7125MHz |
| Main                           | 3.38                      | 2.77                   | 2.33                   | 3.93                   | 3.56                   | 4.75                           | 4.76                   | 4.93                           | 4.26                   | 3.77                    |
| Aux                            | 3.4                       | 2.83                   | 2.83                   | 4.03                   | 3.84                   | 4.49                           | 4.86                   | 4.62                           | 4.86                   | 4.29                    |
|                                |                           |                        |                        |                        |                        |                                |                        |                                |                        |                         |

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# Antenna Information

## Section 1. Antenna Assembly Specifications

| 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) |
| 14008-06650000<br>AYP6Y-100776<br>Main Antenna | AWAN         | PIFA         | 50-ohm Coaxial<br>length: 222mm<br>diameter: 1.13mm<br>Low loss | 2400-2483.5    | 3.38                            | 3.99                           | 3.00     | 0.61            |
|                                                |              |              |                                                                 | 5150-5250      | 2.77                            | 3.68                           | 3.00     | 0.91            |
|                                                |              |              |                                                                 | 5250-5350      | 2.33                            | 3.24                           | 3.00     | 0.91            |
|                                                |              |              |                                                                 | 5470-5725      | 3.93                            | 4.88                           | 3.00     | 0.95            |
|                                                |              |              |                                                                 | 5725-5850      | 3.56                            | 4.52                           | 3.00     | 0.96            |
|                                                |              |              |                                                                 | 5850-5895      | 4.75                            | 5.72                           | 3.00     | 0.97            |
|                                                |              |              |                                                                 | 5925-6425      | 4.76                            | 5.76                           | 3.00     | 1.00            |
|                                                |              |              |                                                                 | 6425-6525      | 4.93                            | 5.96                           | 3.00     | 1.03            |
|                                                |              |              |                                                                 | 6525-6875      | 4.26                            | 5.31                           | 3.00     | 1.05            |
|                                                |              |              |                                                                 | 6875-7125      | 3.77                            | 4.85                           | 3.00     | 1.08            |
| 14008-06650100<br>AYP6Y-100777<br>Aux Antenna  | AWAN         | PIFA         | 50-ohm Coaxial<br>length: 291mm<br>diameter: 1.13mm<br>Low loss | 2400-2483.5    | 3.4                             | 4.2                            | 3.00     | 0.80            |
|                                                |              |              |                                                                 | 5150-5250      | 2.83                            | 4.03                           | 3.00     | 1.20            |
|                                                |              |              |                                                                 | 5250-5350      | 2.83                            | 4.04                           | 3.00     | 1.21            |
|                                                |              |              |                                                                 | 5470-5725      | 4.03                            | 5.27                           | 3.00     | 1.24            |
|                                                |              |              |                                                                 | 5725-5850      | 3.84                            | 5.1                            | 3.00     | 1.26            |
|                                                |              |              |                                                                 | 5850-5895      | 4.49                            | 5.76                           | 3.00     | 1.27            |
|                                                |              |              |                                                                 | 5925-6425      | 4.86                            | 6.17                           | 3.00     | 1.31            |
|                                                |              |              |                                                                 | 6425-6525      | 4.62                            | 5.97                           | 3.00     | 1.35            |
|                                                |              |              |                                                                 | 6525-6875      | 4.86                            | 6.24                           | 3.00     | 1.38            |
|                                                |              |              |                                                                 | 6875-7125      | 4.29                            | 5.71                           | 3.00     | 1.42            |

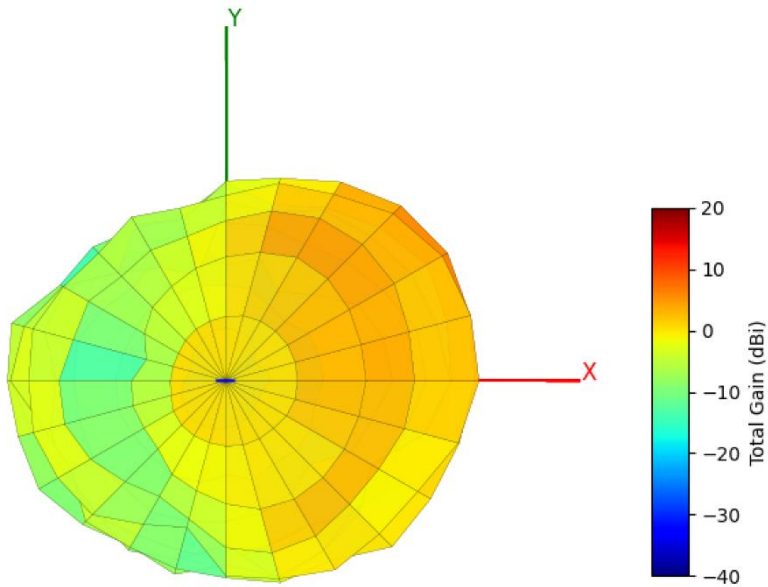
- 3D Antenna Peak Gain required being test in system basis.

Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

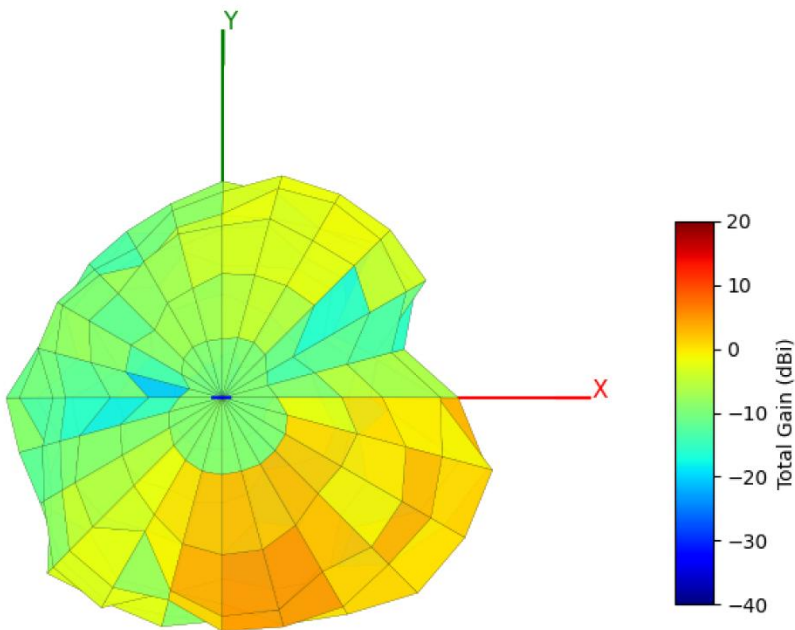
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 2400-2483.5     | 3.38                          |



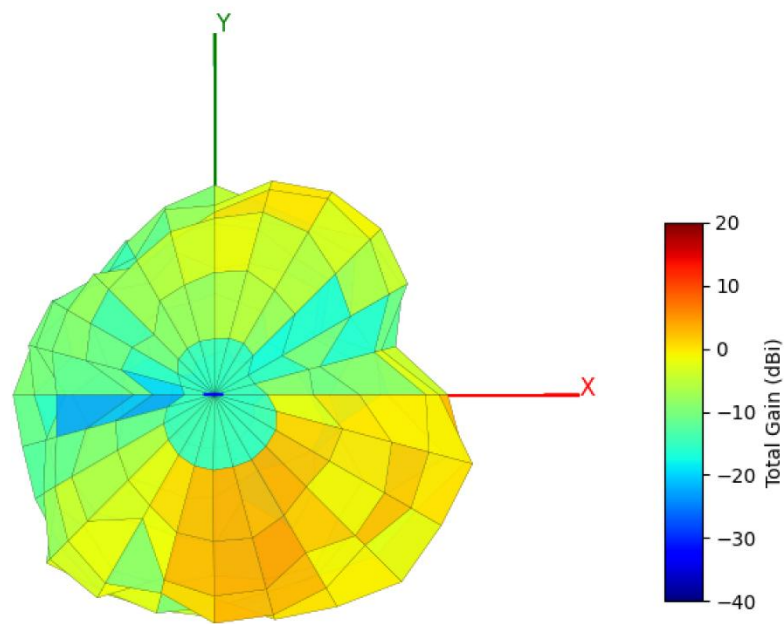
Max Antenna 3D Radiation Pattern 5150-5250 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5150-5250       | 2.77                          |



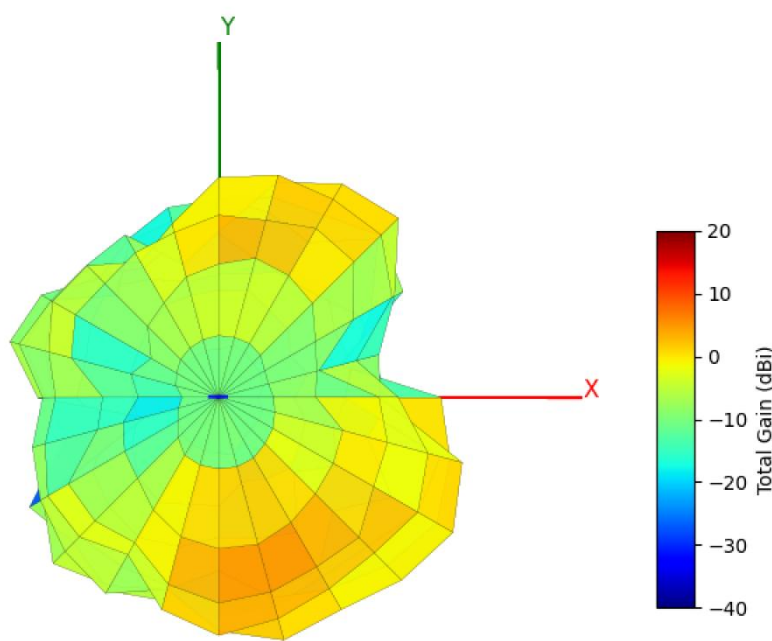
Max Antenna 3D Radiation Pattern 5250-5350 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5250-5350       | 2.33                          |



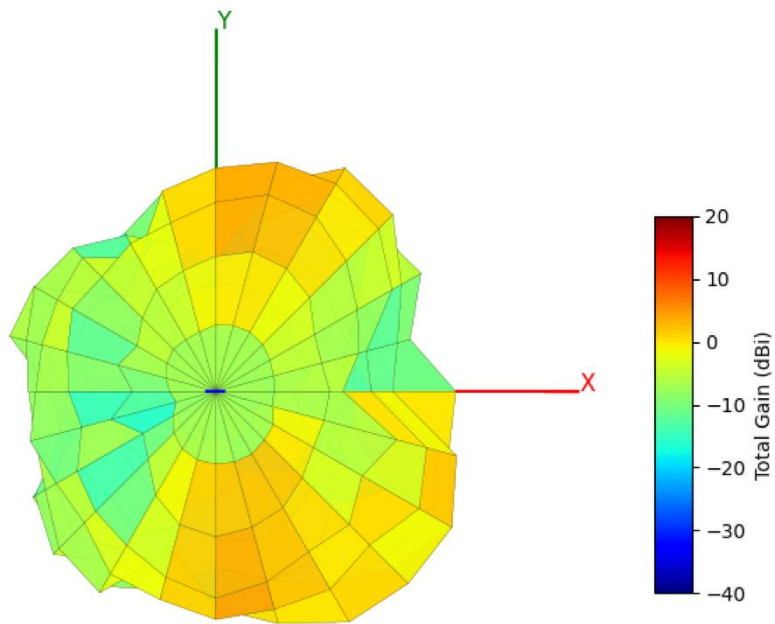
Max Antenna 3D Radiation Pattern 5470-5725 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5470-5725       | 3.93                          |



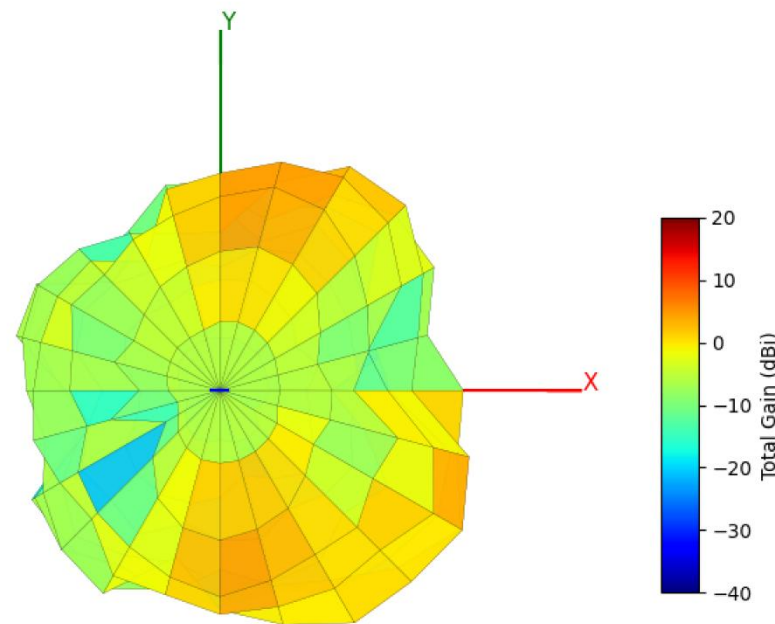
Max Antenna 3D Radiation Pattern 5725-5850 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5725-5850       | 3.56                          |



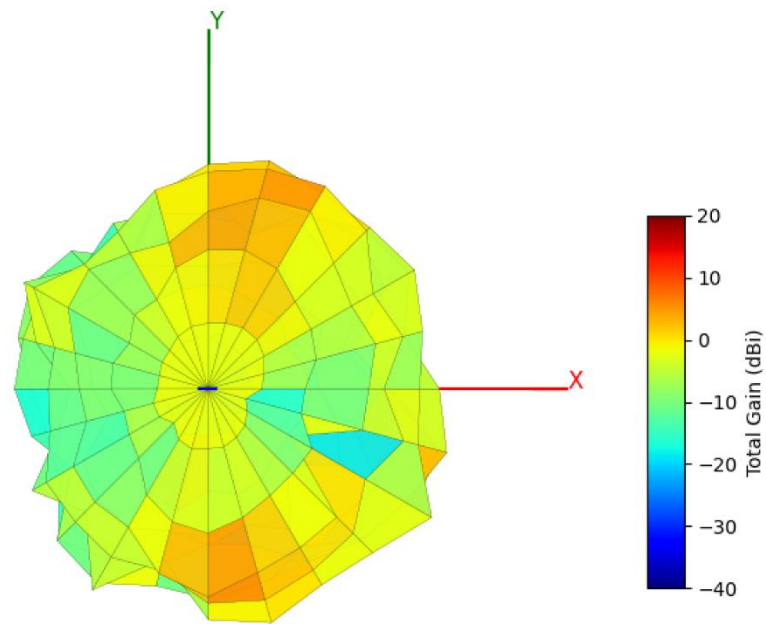
Max Antenna 3D Radiation Pattern 5850-5895 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5850-5895       | 4.75                          |



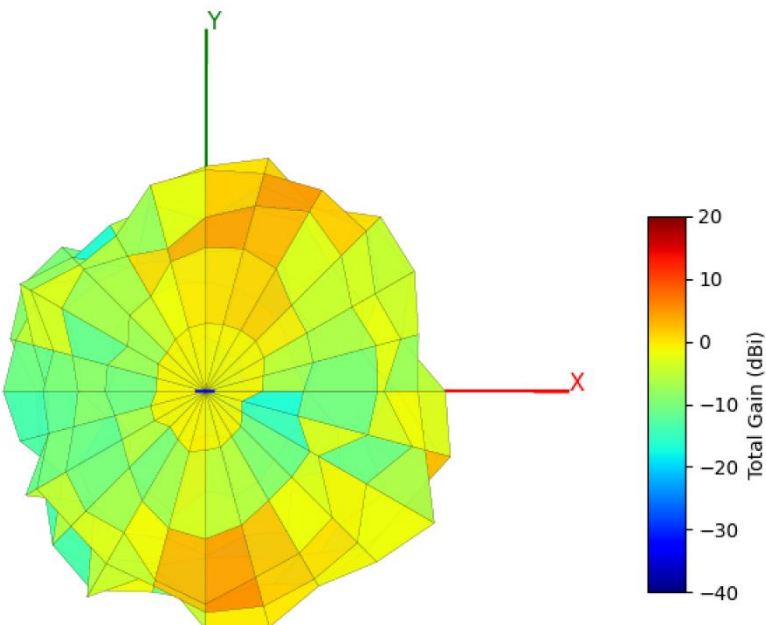
Max Antenna 3D Radiation Pattern 5925-6425 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5925-6425       | 4.76                          |



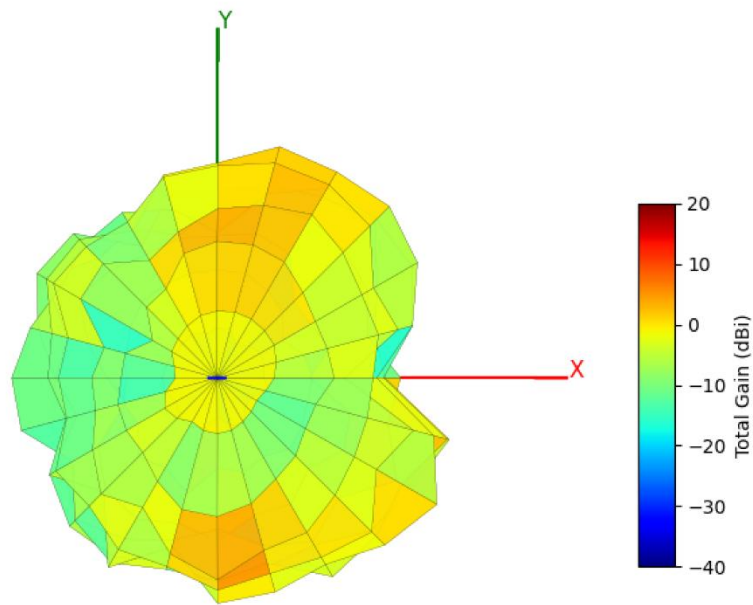
Max Antenna 3D Radiation Pattern 6425-6525 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6425-6525       | 4.93                          |



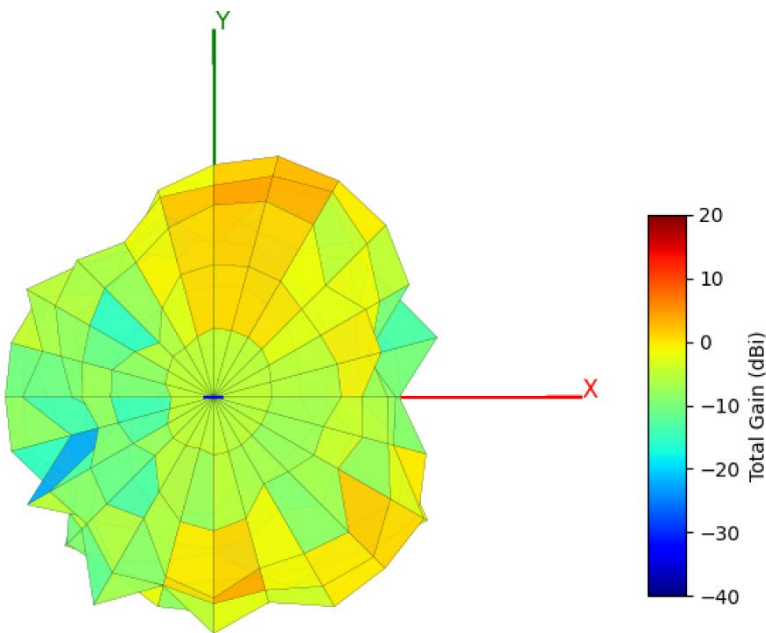
Max Antenna 3D Radiation Pattern 6525-6875 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6525-6875       | 4.26                          |



Max Antenna 3D Radiation Pattern 6875-7125 MHz

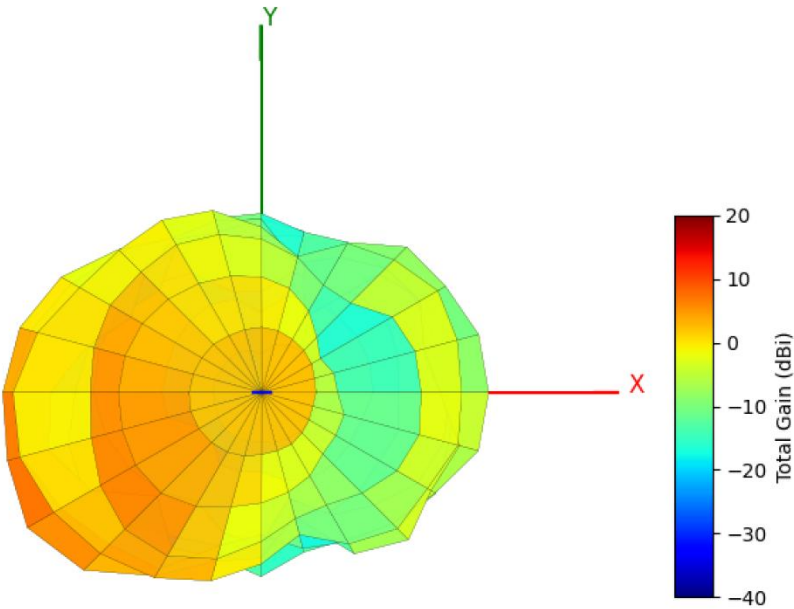
| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6875-7125       | 3.77                          |



Auxiliary Antenna

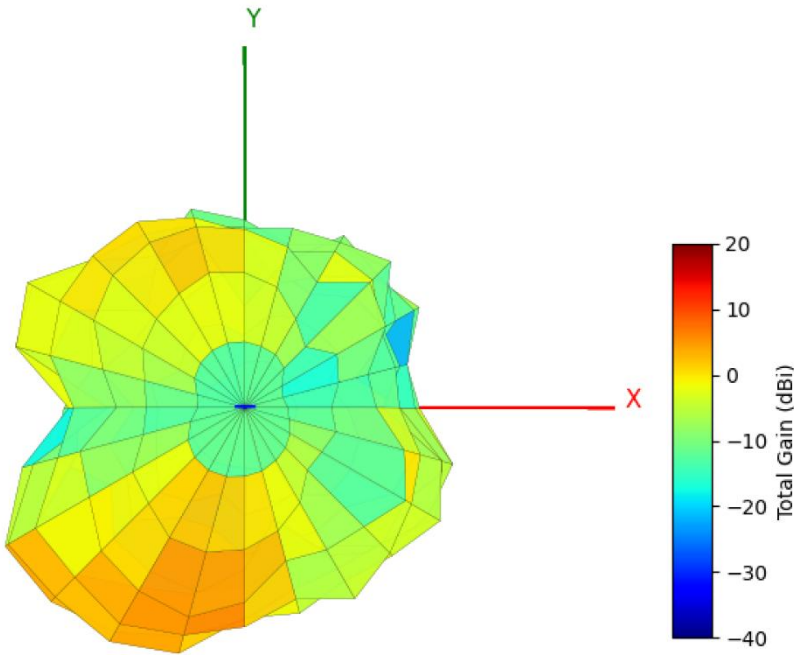
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 2400-2483.5     | 3.4                           |



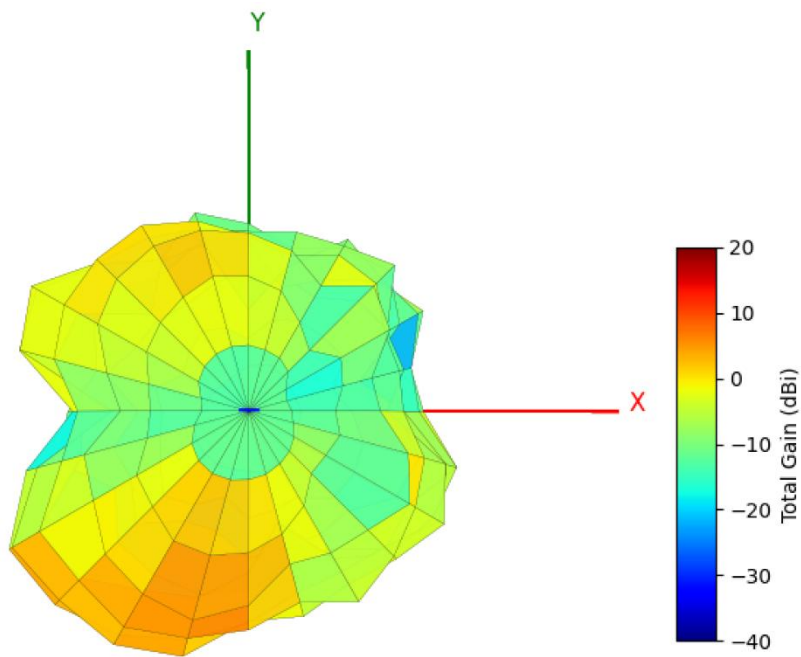
Max Antenna 3D Radiation Pattern 5150-5250 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5150-5250       | 2.83                          |



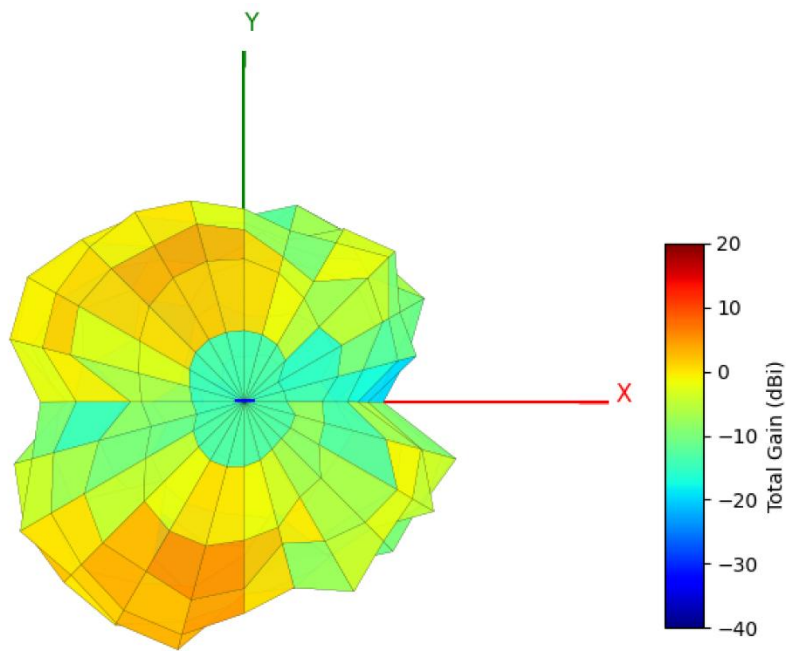
Max Antenna 3D Radiation Pattern 5250-5350 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5250-5350       | 2.83                          |



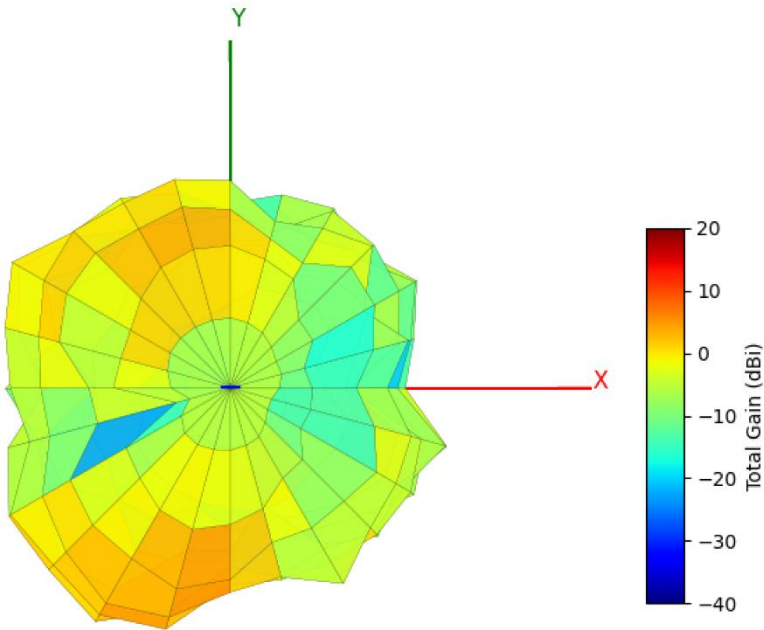
Max Antenna 3D Radiation Pattern 5470-5725 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5470-5725       | 4.03                          |



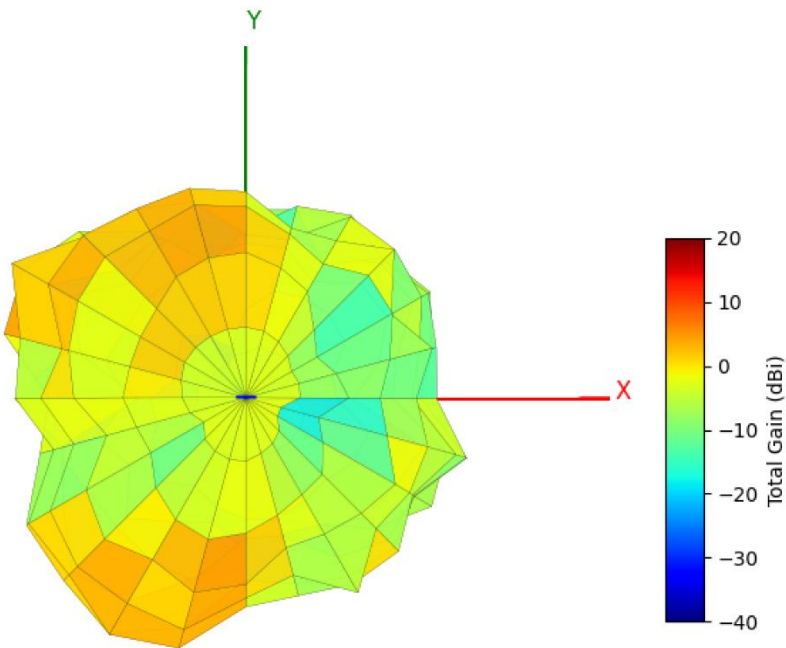
Max Antenna 3D Radiation Pattern 5725-5850 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5725-5850       | 3.84                          |



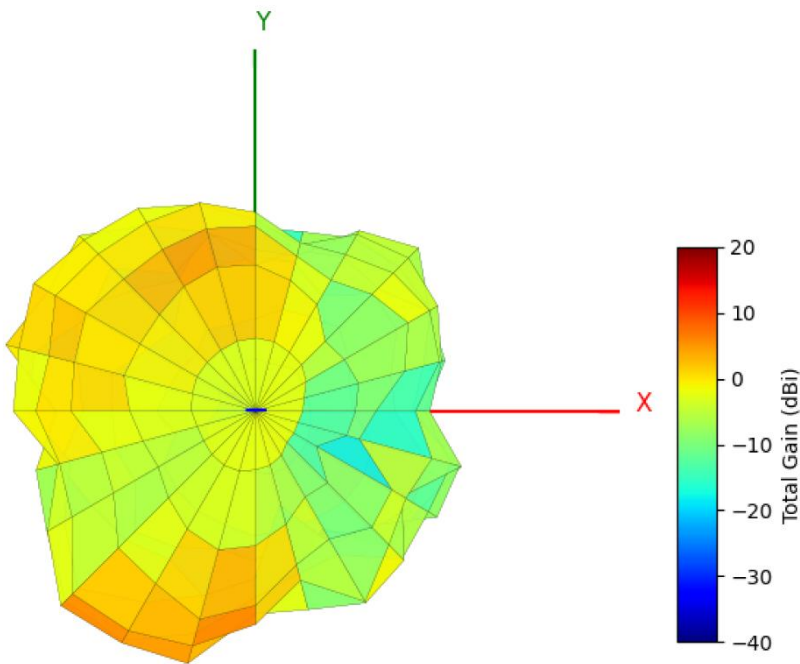
Max Antenna 3D Radiation Pattern 5850-5895 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5850-5895       | 4.49                          |



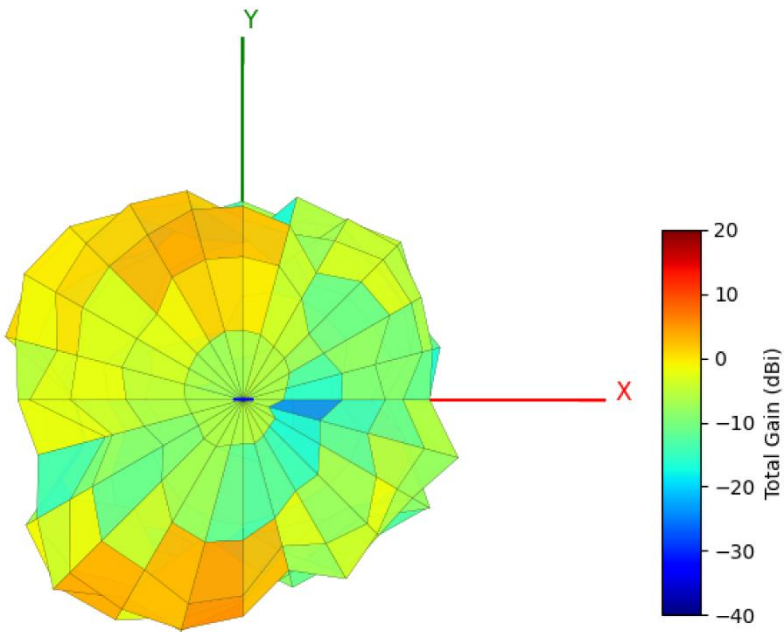
Max Antenna 3D Radiation Pattern 5925-6425 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 5925-6425       | 4.86                          |



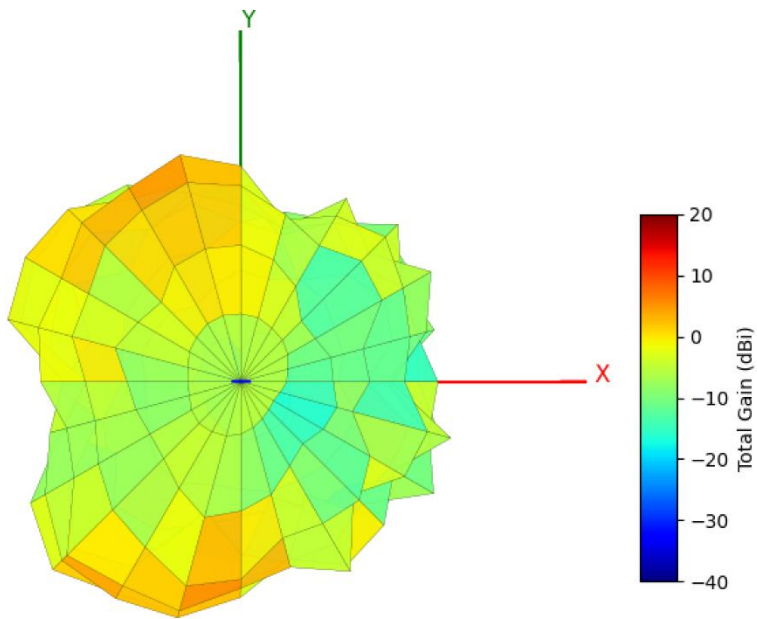
Max Antenna 3D Radiation Pattern 6425-6525 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6425-6525       | 4.62                          |



Max Antenna 3D Radiation Pattern 6525-6875 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6525-6875       | 4.86                          |



Max Antenna 3D Radiation Pattern 6875-7125 MHz

| Frequency (MHz) | Peak Gain w/ Cable Loss (dBi) |
|-----------------|-------------------------------|
| 6875-7125       | 4.29                          |

