

# 4X4 MiMo 4G/5G

## Transit Antenna

TRNM[X]4-6-60-[X]

PANORAMA ANTENNAS



### Low Profile Transit Antenna

4x4 MiMo 617-960/1427-6000MHz

Up to 4x4 MiMo WiFi 6e (Optional)

GPS/GNSS 26dB LNA (Optional)

Meets Railway Standards EN50155, EN45545-2 and EN50124-1\*

The TRNM[X]4-6-60-[X] MiMo antenna series is designed for use on trains, trams and buses underground or over ground. Incorporating four wide band elements covering the frequency range 617MHz to 6000MHz, the TRNM[X]4-6-60-[X] series is versatile and future proof.

The TRNM[X]4-6-60-[X] series covers global 4G/5G frequencies with 4x4 MiMo, optional up to 4x4 MiMo Wifi 6e and optional GPS/GNSS.

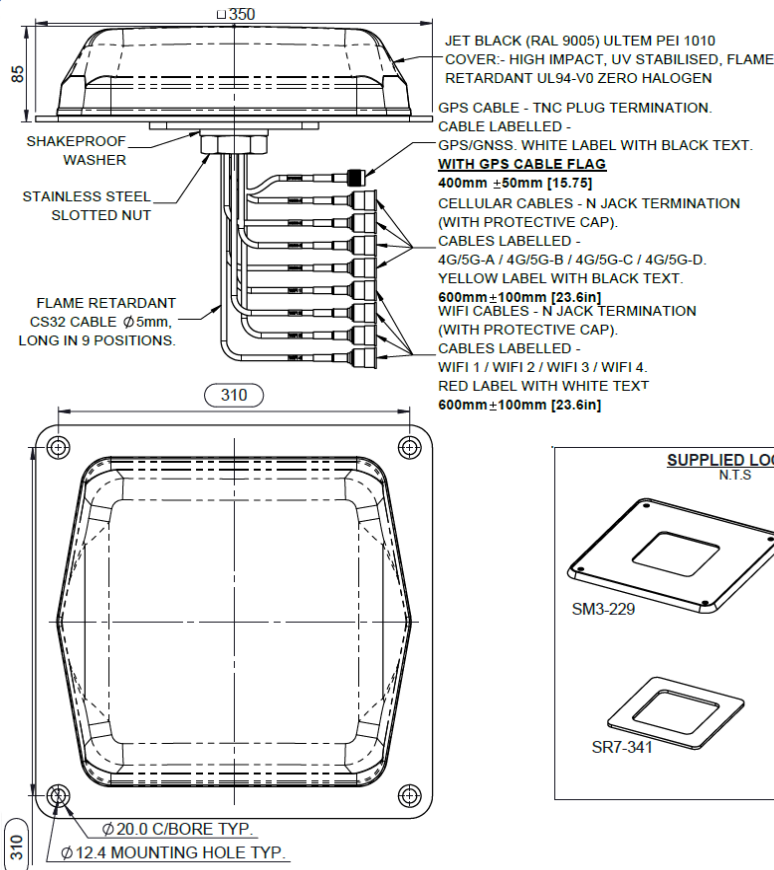
Housed in a high impact, flame retardant Ultem housing, the antenna is fully weatherproof ensuring a long service life with no compromise in performance.

The TRNM[X]4-6-60-[X] antenna meets stringent industry standards including EN50155, EN45545-2 (HL 1-3), EN50124-1\* and is ingress protected to IP69k when correctly installed.

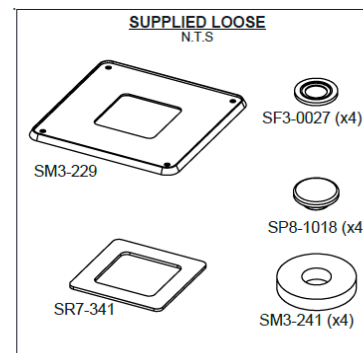
\*Whole assembly compliant to 27.5 KV AC Insulation Test. Cell/LTE elements tested to 40KA AC Short Circuit Test.

### Technical Drawing

TRNMG4-6-60-Q Shown



ISO VIEW  
SCALE 1:10

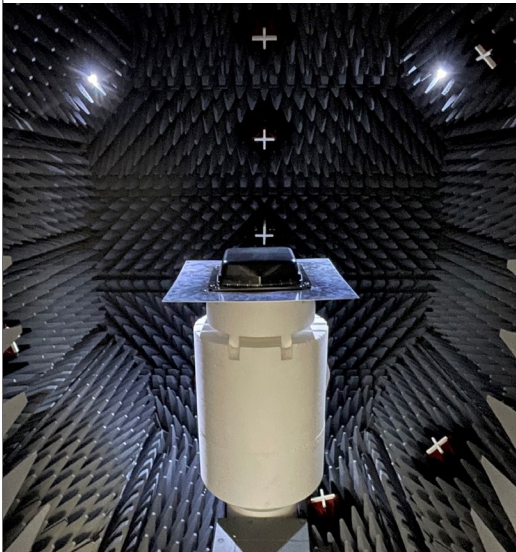


## Product Data

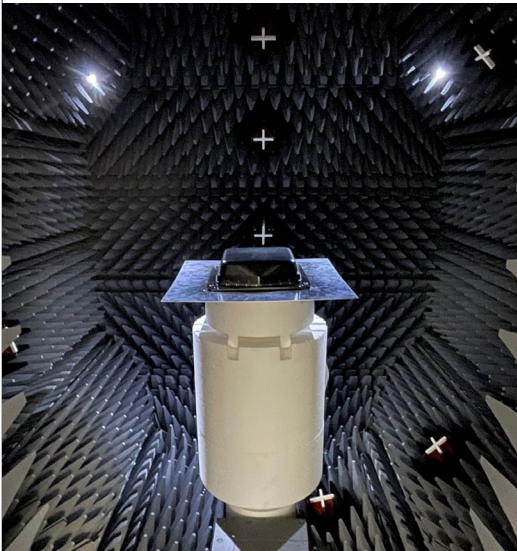
| Part No.                               |                | TRNMG4-6-60-Q   | TRNMG4-6-60-T   | TRNMG4-6-60-D                                   | TRNMG4-6-60 | TRNM4-6-60 |   |
|--|----------------|---|-----------------|---|-------------|------------|---|
| Electrical Data                        |                |   |                 |   |             |            |   |
| Frequency Range (MHz)                  | Cell /LTE      | 4x 617-960 / 1427-6000  |                 |   |             |            |   |
|  | WiFi           | 4x 2396-7125  | 3x 2396-7125    | 2x 2396-7125                                    | -           | -          |   |
|  | GPS/GNSS       | 1x 1562-1612  |                 |   |             |            |   |
| Typical VSWR*                          | Cell Elements  | < 2:1   |                 |   |             |            |   |
|  | WiFi Elements  | < 2:1   |                 |   |             | -          | - |
| Isolation**                            | Cell Elements  | >14dB (617-960MHz) / >25dB (1427-6000MHz)   |                 |   |             |            |   |
|  | Wifi Elerments | >25dB (2.4-2.5GHz) / >30dB (5.150-7.125GHz)   |                 |   |             | -          | - |
| Pattern                                |                |   |                 | Omni-directional                                |             |            |   |
| Impedance                              |                |   |                 | 50Ω   |             |            |   |
| Max Input Power (W)                    |                |   |                 | 60  |             |            |   |
| GPS/GNSS Data                          |                |   |                 |   |             |            |   |
| Frequency Range (MHz)                  |                |   |                 | 1559-1612                                       |             |            | - |
| Impedance                              |                |   |                 | 50Ω   |             |            | - |
| LNA Gain                               |                |   |                 | 26dB  |             |            | - |
| Voltage / Current                      |                |   |                 | 3-5v 15ma Typical                               |             |            | - |
| Polarisation                           |                |   |                 | Right Hand Circular                             |             |            | - |
| Mechanical Data                        |                |   |                 |   |             |            |   |
| Dimensions (mm)                        | Height         | 85 (3.34")  |                 |   |             |            |   |
|  | Width          | 350 (13.78")  |                 |   |             |            |   |
|  | Length         | 350 (13.78")  |                 |   |             |            |   |
| Weight Excl. Packaging (kg)            |                |   |                 | ≤ 5   |             |            |   |
| Environmental Specification            |                |   |                 |   |             |            |   |
| Operating Temp (°C)                    |                |   |                 | -40° / +85°C ( -40° / +185°F )                  |             |            |   |
| Radome Material                        |                |   |                 | Ultem 1010                                      |             |            |   |
| Radome Flame Retardance Rating         |                |   |                 | V0 (UL 94)                                      |             |            |   |
| Base Material                          |                |   |                 | Aluminium (corrosion protected & powder coated) |             |            |   |
| Rail Industry Approvals                |                |   |                 |   |             |            |   |
| Flammability                           |                |   |                 | EN45545-2:2020 - HL3 External                   |             |            |   |
| Environmental                          |                | EN50155:2021 -Low temperature, dry heat, salt mist, damp heat cyclic, shock, random vibration, long life random vibration               |                 |   |             |            |   |
| EMC/EMI                                |                |   |                 | EN 50121-3-2:2016 A1: 2019 - EMC / EMI          |             |            |   |
| Insulation / Short Circuit             |                | EN 50124-1:2017 - Insulation Test - (27.5KV AC 50Hz 1 min)   EN50388:2012 / EN50122-1:2022 - (40kA 50Hz AC 100ms ) - Cell elements only |                 |   |             |            |   |
| Ingress Protection / Vandal Protection |                |   |                 | ISO 20653: 2013 - IP69K   EN 62262:2002 - IK07  |             |            |   |
| Mounting Data                          |                |   |                 |   |             |            |   |
| Fixing                                 |                | 4 × mounting holes to suit M12 bolts 1x M33 central mounting bush   |                 |   |             |            |   |
| Termination Data                       |                |   |                 |   |             |            |   |
| Cable Type                             |                |   |                 | C32 (Compliant to UN ECE R118 & EN45545-2)      |             |            |   |
| Cable Diameter (mm)                    |                |   |                 | 5 (0.2")  |             |            |   |
| Cable Length (m)                       |                |   |                 | 0.6m (20") [Cell] / 0.4m (16") [GPS/GNSS]       |             |            |   |
| Termination                            | 4G/5G          | 4x N Socket (f)   |                 |   |             |            |   |
|  | WiFi           | 4x N Socket (f)   | 3x N Socket (f) | 2x N Socket (f)                                 | -           | -          |   |
|  | GPS/GNSS       | 1x TNC Plug (m)   |                 |   |             |            | - |

\*Across 90% of relevant bands when measured on a 600 x 600mm (2' x 2') ground plane with 0.5m (20") of CS32 cable \*\*Worst case isolation measured with 0.5m (1.5') CS32 cable

### Electrical Data- Cell

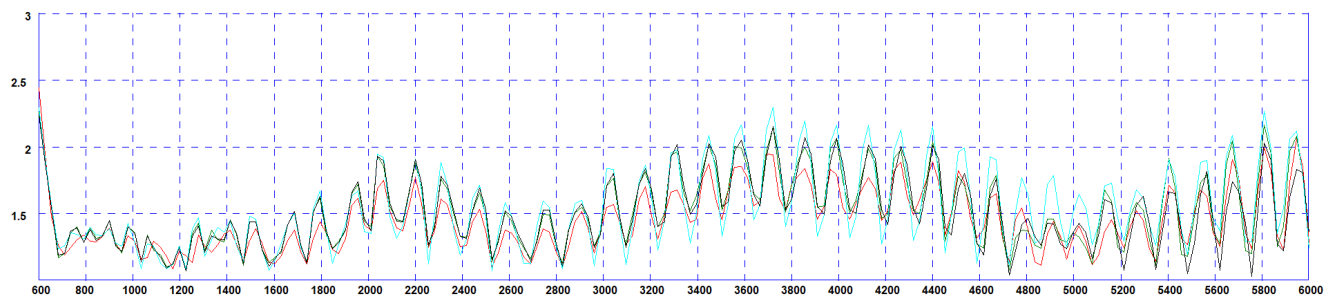
| Measurement Conditions   | 4G/5G Antennas        |                       |                 |                 |                |
|--|-----------------------|-----------------------|-----------------|-----------------|----------------|
| TRNMG4-6-60-Q measured on 600x600mm (2'x2') ground plane with 0.5m (20") CS32 Pigtails | Frequency Range (MHz) | LTE Bands             | Antenna Element | Peak Gain (dBi) | Efficiency (%) |
|      | 617-698               | 71                    | Cell A          | 5.8             | 80             |
|  |                       |                       | Cell B          | 6.0             | 79             |
|  |                       |                       | Cell C          | 6.1             | 78             |
|  |                       |                       | Cell D          | 5.7             | 80             |
|  | 699-798               | 12,13, 14 17,28       | Cell A          | 6.9             | 82             |
|  |                       |                       | Cell B          | 6.9             | 82             |
|  |                       |                       | Cell C          | 7.0             | 82             |
|  |                       |                       | Cell D          | 6.7             | 81             |
|  | 807- 862              | 5,19,20,26,27         | Cell A          | 7.2             | 81             |
|  |                       |                       | Cell B          | 7.3             | 81             |
|  |                       |                       | Cell C          | 7.5             | 81             |
|  |                       |                       | Cell D          | 7.1             | 81             |
|  | 880-960               | 8                     | Cell A          | 7.2             | 84             |
|  |                       |                       | Cell B          | 7.3             | 84             |
|  |                       |                       | Cell C          | 7.5             | 84             |
|  |                       |                       | Cell D          | 7.1             | 84             |
|  | 1427-1518             | 11, 21, 74,75,76      | Cell A          | 7.9             | 86             |
|  |                       |                       | Cell B          | 8.0             | 86             |
|  |                       |                       | Cell C          | 8.2             | 87             |
|  |                       |                       | Cell D          | 8.1             | 86             |
|  | 1710-1920             | 2,3,4,9,25,35, 39,66  | Cell A          | 7.3             | 76             |
|  |                       |                       | Cell B          | 7.1             | 77             |
|  |                       |                       | Cell C          | 7.1             | 77             |
|  |                       |                       | Cell D          | 7.1             | 77             |
|  | 1920-2170             | 1,23                  | Cell A          | 8.1             | 76             |
|  |                       |                       | Cell B          | 8.6             | 77             |
|  |                       |                       | Cell C          | 8.8             | 77             |
|  |                       |                       | Cell D          | 8.2             | 77             |
|  | 2300-2400             | 30,40                 | Cell A          | 9.1             | 80             |
|  |                       |                       | Cell B          | 9.2             | 81             |
|  |                       |                       | Cell C          | 9.5             | 81             |
|  |                       |                       | Cell D          | 9.1             | 82             |
|  | 2496-2690             | 7,38,41               | Cell A          | 8.4             | 82             |
|  |                       |                       | Cell B          | 8.4             | 83             |
|  |                       |                       | Cell C          | 8.5             | 83             |
|  |                       |                       | Cell D          | 8.7             | 84             |
|  | 3300-4200             | 22,42,43,48,77, 78,79 | Cell A          | 7.4             | 69             |
|  |                       |                       | Cell B          | 7.2             | 69             |
|  |                       |                       | Cell C          | 7.3             | 68             |
|  |                       |                       | Cell D          | 7.3             | 70             |
|  | 4400-5000             | 79                    | Cell A          | 7.1             | 65             |
|  |                       |                       | Cell B          | 7.3             | 63             |
|  |                       |                       | Cell C          | 7.6             | 67             |
|  |                       |                       | Cell D          | 8.0             | 69             |

## Electrical Data - WiFi

| Measurement Conditions   | WiFi Antennas         |            |                 |                 |                |
|--|-----------------------|------------|-----------------|-----------------|----------------|
| TRNMG4-6-60-Q measured on 600x600mm (2'x2') ground plane with 0.5m (20") CS32 Pigtails | Frequency Range (MHz) | WiFi Bands | Antenna Element | Peak Gain (dBi) | Efficiency (%) |
|      | 2396-2485             | 2.5GHz     | WiFi 1          | 8.2             | 71             |
|  |                       |            | WiFi 2          | 8.3             | 70             |
|  |                       |            | WiFi 3          | 7.8             | 71             |
|  |                       |            | WiFi 4          | 7.9             | 71             |
|  | 5150-5250             | UNII-1     | WiFi 1          | 7.8             | 70             |
|  |                       |            | WiFi 2          | 7.0             | 68             |
|  |                       |            | WiFi 3          | 8.0             | 68             |
|  |                       |            | WiFi 4          | 7.0             | 69             |
|  | 5250-5350             | UNII-2A    | WiFi 1          | 7.6             | 69             |
|  |                       |            | WiFi 2          | 6.6             | 68             |
|  |                       |            | WiFi 3          | 7.2             | 68             |
|  |                       |            | WiFi 4          | 7.2             | 69             |
|  | 5470-5725             | UNII-2B    | WiFi 1          | 7.9             | 64             |
|  |                       |            | WiFi 2          | 7.1             | 62             |
|  |                       |            | WiFi 3          | 7.7             | 64             |
|  |                       |            | WiFi 4          | 7.3             | 61             |
|  | 5725-5900             | UNII-3     | WiFi 1          | 8.4             | 62             |
|  |                       |            | WiFi 2          | 7.7             | 58             |
|  |                       |            | WiFi 3          | 8.5             | 60             |
|  |                       |            | WiFi 4          | 8.1             | 59             |
|  | 5845-5885             | UNII-4     | WiFi 1          | 8.2             | 60             |
|  |                       |            | WiFi 2          | 7.5             | 56             |
|  |                       |            | WiFi 3          | 8.3             | 58             |
|  |                       |            | WiFi 4          | 7.8             | 57             |
|  | 5935-6415             | UNII-5     | WiFi 1          | 9.0             | 66             |
|  |                       |            | WiFi 2          | 9.0             | 58             |
|  |                       |            | WiFi 3          | 9.1             | 61             |
|  |                       |            | WiFi 4          | 9.2             | 59             |
|  | 6435-6515             | UNII-6     | WiFi 1          | 7.6             | 69             |
|  |                       |            | WiFi 2          | 7.6             | 58             |
|  |                       |            | WiFi 3          | 7.5             | 62             |
|  |                       |            | WiFi 4          | 7.9             | 60             |
|  | 6535-6875             | UNII-7     | WiFi 1          | 8.1             | 71             |
|  |                       |            | WiFi 2          | 7.0             | 61             |
|  |                       |            | WiFi 3          | 8.3             | 65             |
|  |                       |            | WiFi 4          | 7.4             | 62             |
|  | 6875-7125             | UNII-8     | WiFi 1          | 8.3             | 69             |
|  |                       |            | WiFi 2          | 7.8             | 62             |
|  |                       |            | WiFi 3          | 8.3             | 66             |
|  |                       |            | WiFi 4          | 7.7             | 61             |

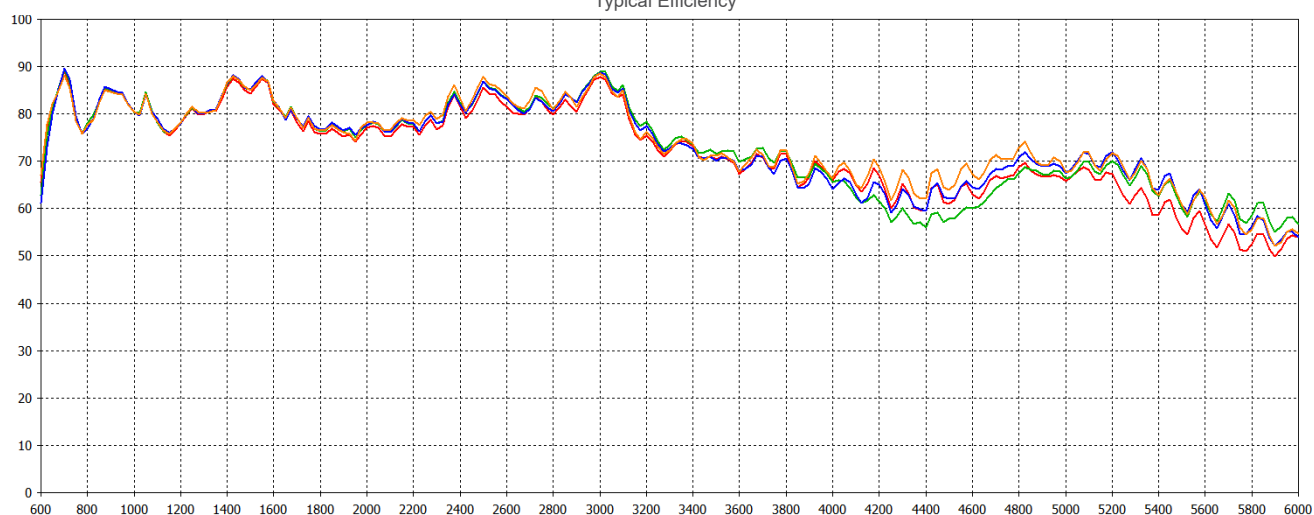
### Electrical Data- Cell

Typical VSWR \*



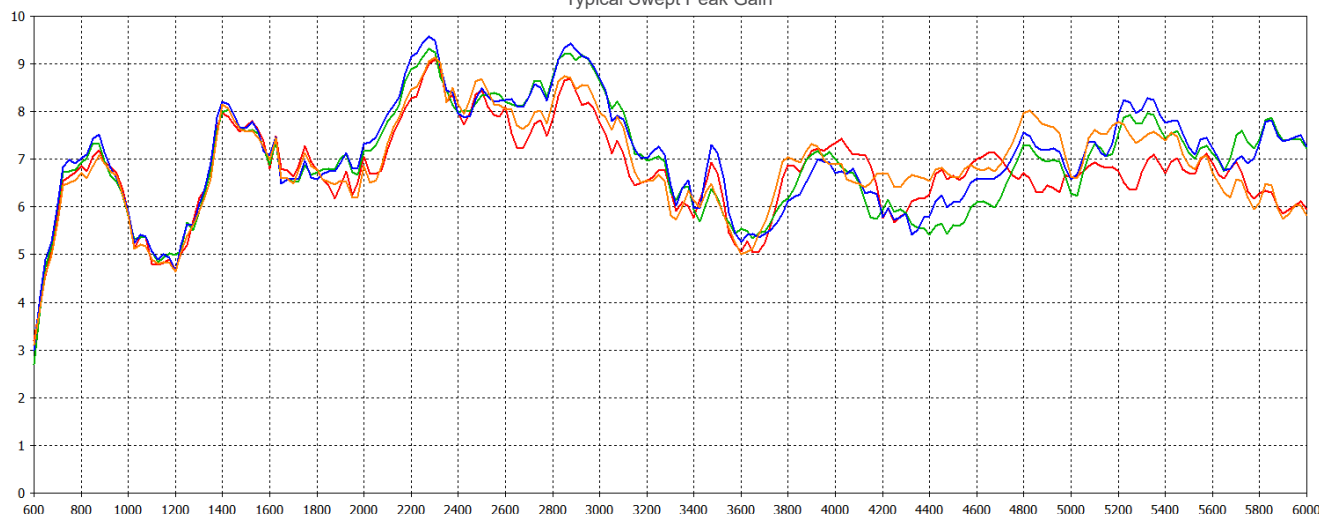
\*VSWR measured with 0.5m (1.5') of CS32 cable

Typical Efficiency\*



\*Efficiency measured with 0.5m (1.5') of CS32 cable

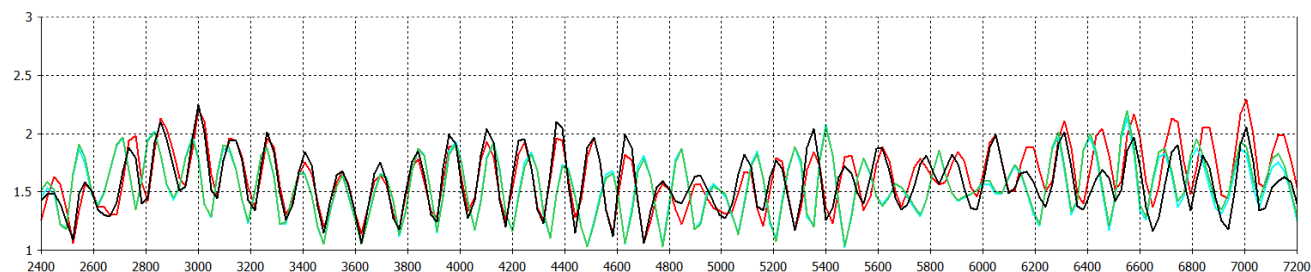
Typical Swept Peak Gain\*



\* Swept peak gain measured with 0.5m (1.5') of CS32 cable

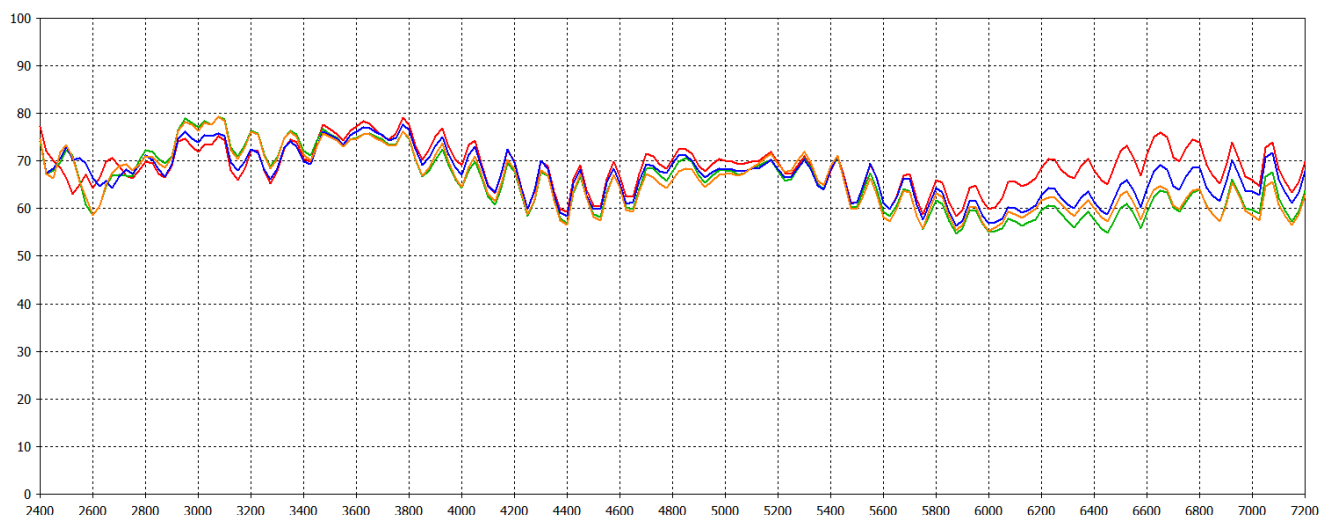


Typical VSWR \*



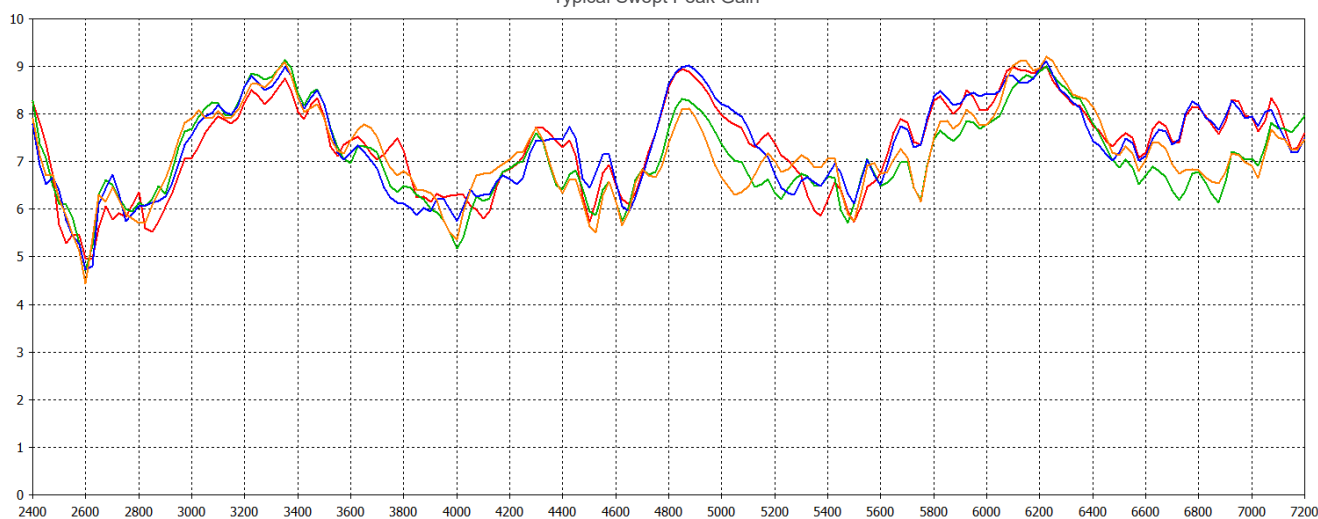
\*VSWR measured with 0.5m (1.5') of CS32 cable

Typical Efficiency\*



\*Efficiency measured with 0.5m (1.5') of CS32 cable

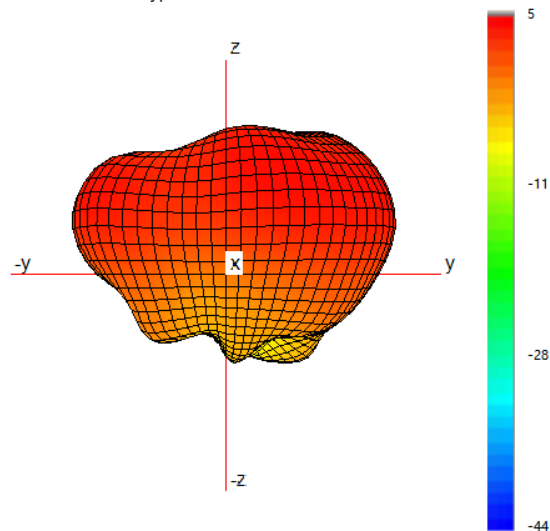
Typical Swept Peak Gain\*



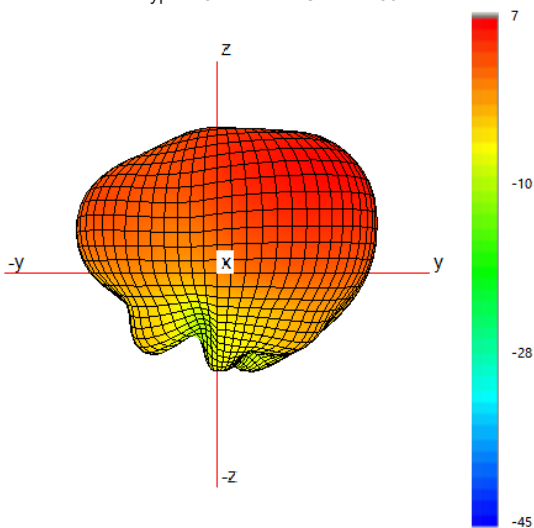
\* Swept peak gain measured with 0.5m (1.5') of CS32 cable

### 3D Patterns -Cell A

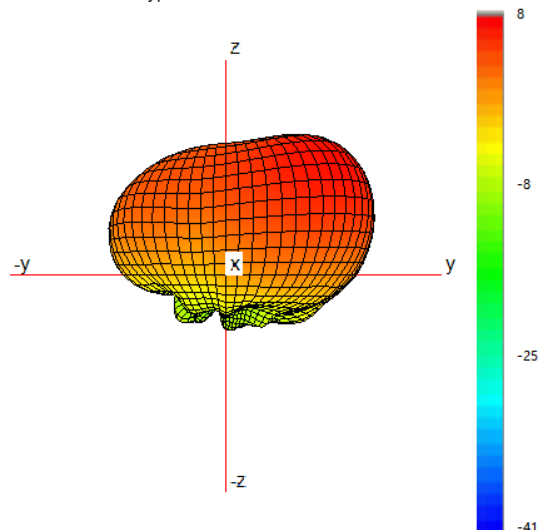
Typical 3D Pattern- Cell A - 650 MHz



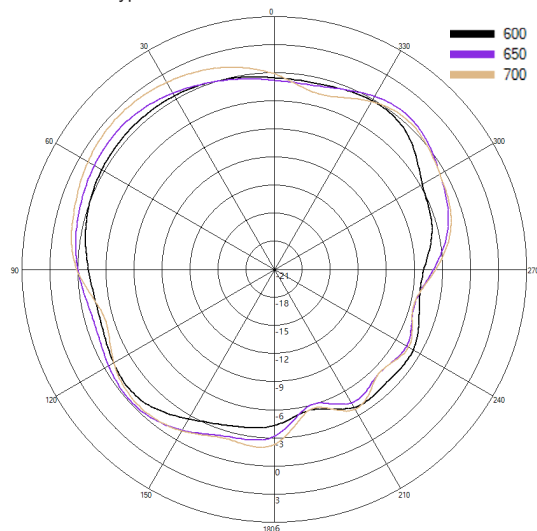
Typical 3D Pattern- Cell A - 750 MHz



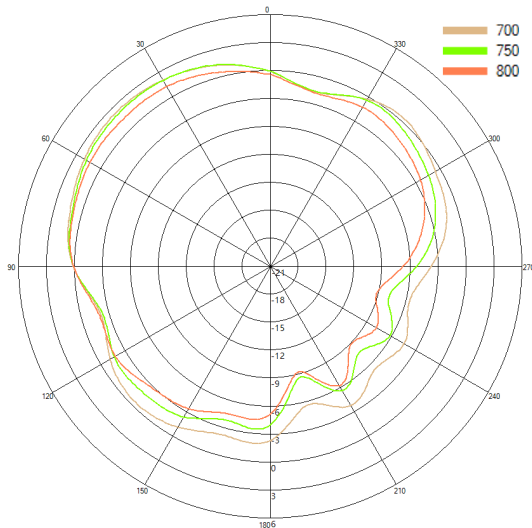
Typical 3D Pattern- Cell A - 850 MHz



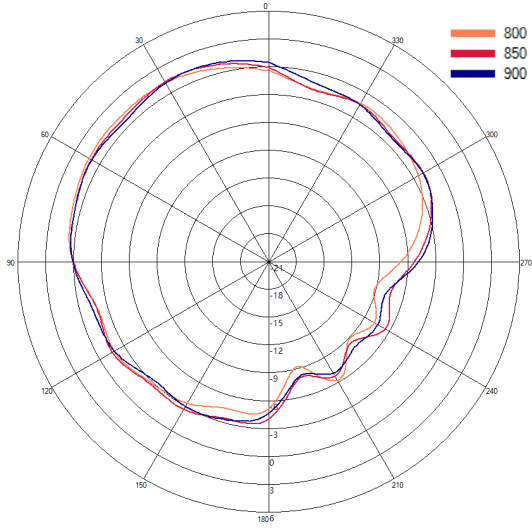
Typical H Plane- Cell A - Patterns- 600-700MHz



Typical H Plane- Cell A - Patterns- 700-800MHz

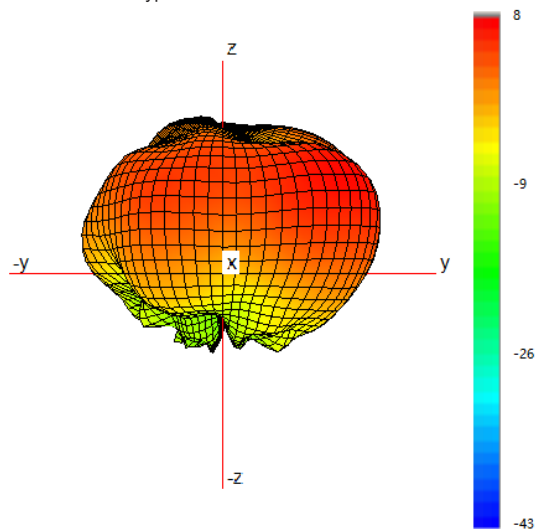


Typical H Plane- Cell A - Patterns- 800-900MHz

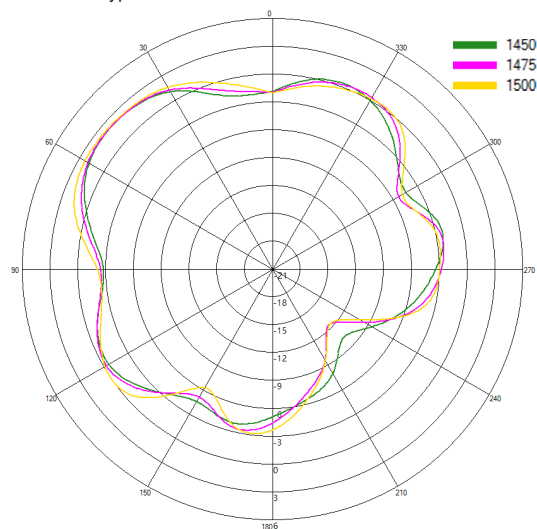


### 3D Patterns Cell A

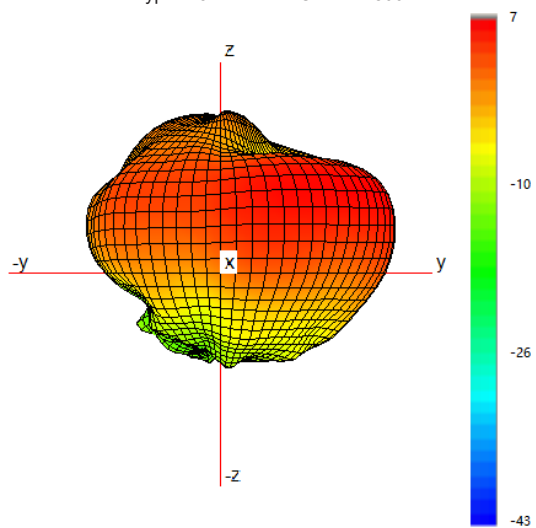
Typical 3D Pattern- Cell A - 1475 MHz



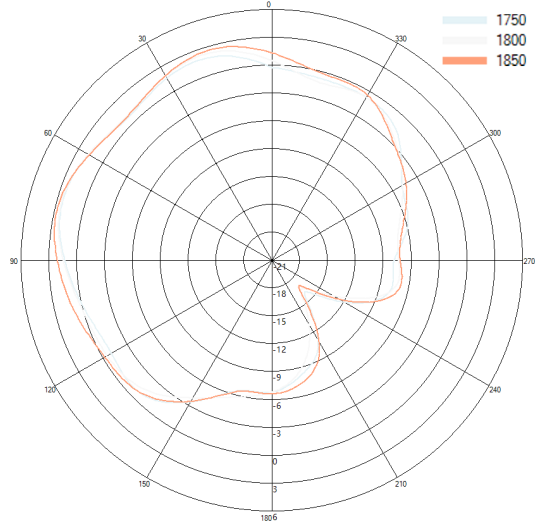
Typical H Plane- Cell A- Patterns- 1450-1500 MHz



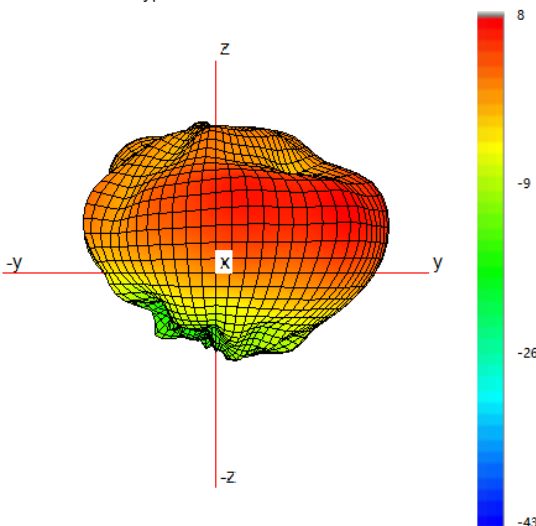
Typical 3D Pattern- Cell A - 1800 MHz



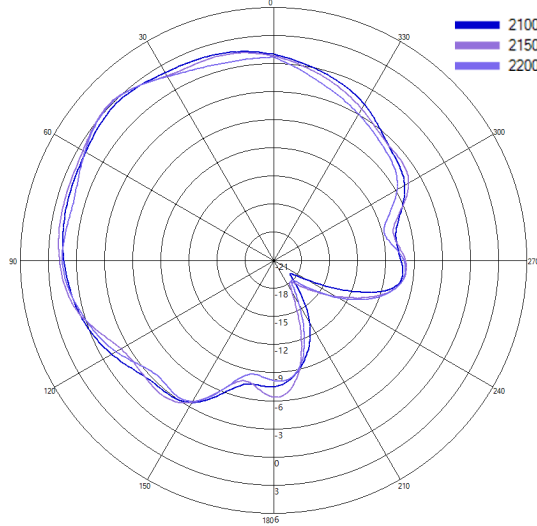
Typical H Plane- Cell A- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell A - 2150 MHz



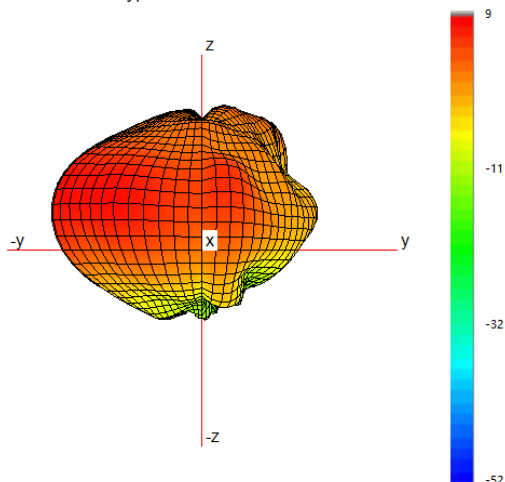
Typical H Plane- Cell A- Patterns- 2100-2200 MHz



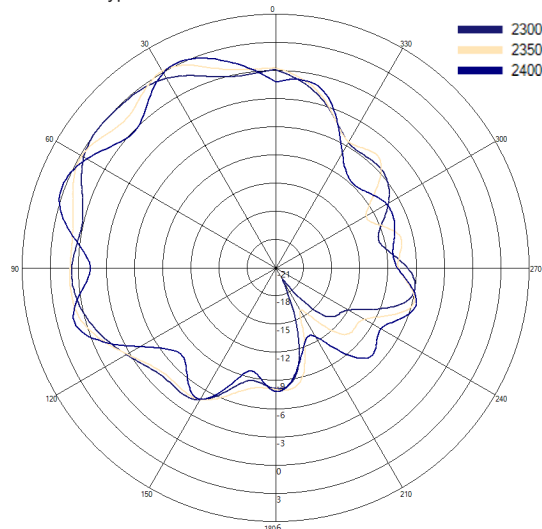


### 3D Patterns -Cell A

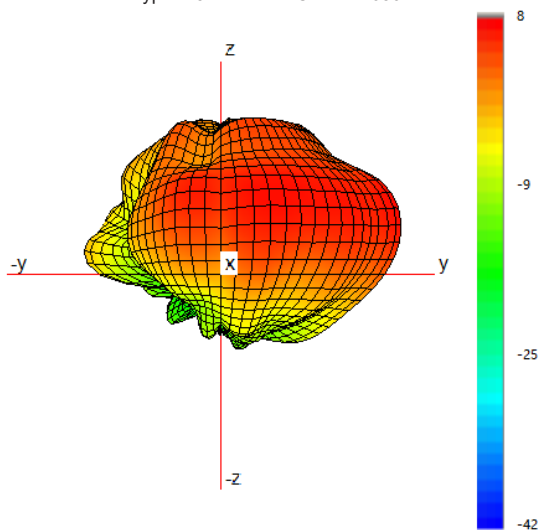
Typical 3D Pattern- Cell A - 2350 MHz



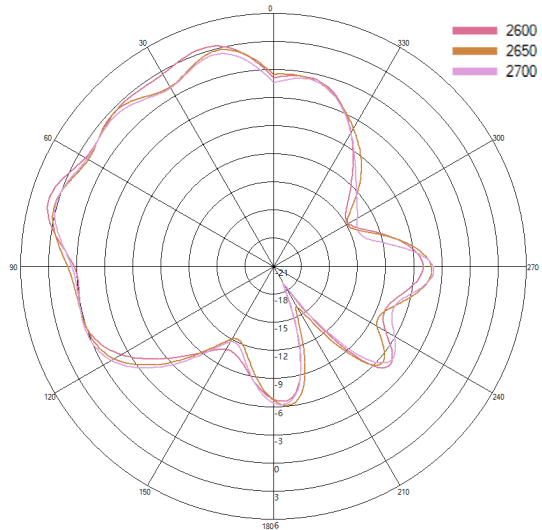
Typical H Plane- Cell A - Patterns- 2300-2400 MHz



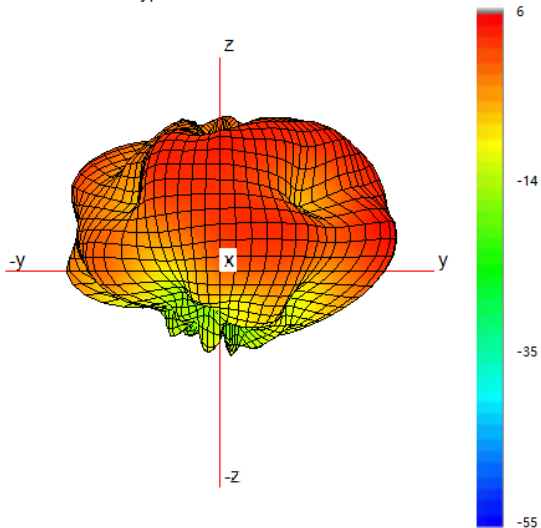
Typical 3D Pattern- Cell A - 2650 MHz



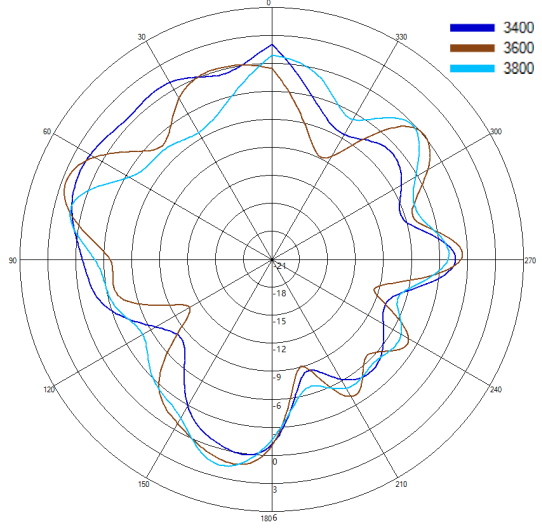
Typical H Plane- Cell A - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell A - 3600 MHz

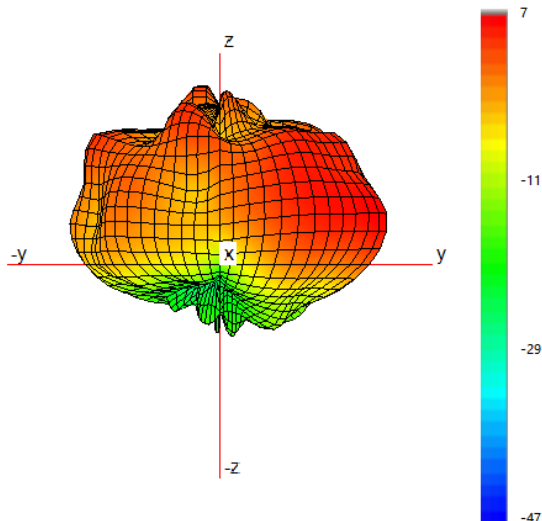


Typical H Plane- Cell A - Patterns- 3400-3800 MHz

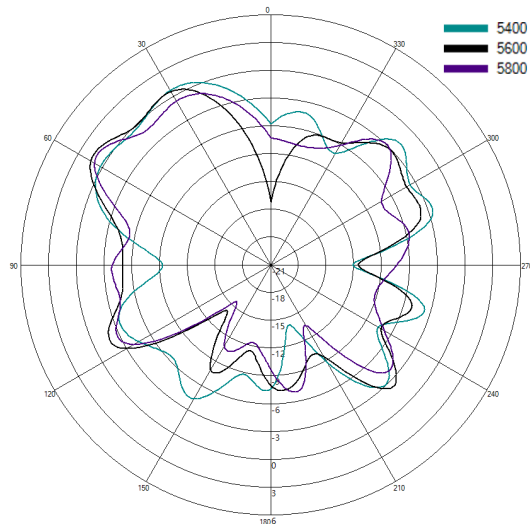


### 3D Patterns Cell A

Typical 3D Pattern- Cell A - 5600 MHz

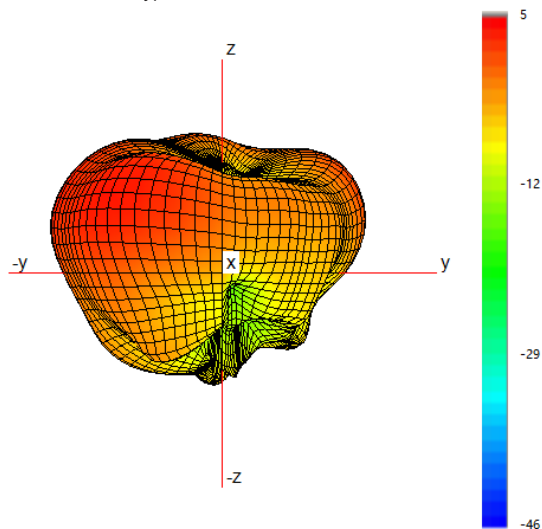


Typical H Plane- Cell A - Patterns- 5400-5800 MHz

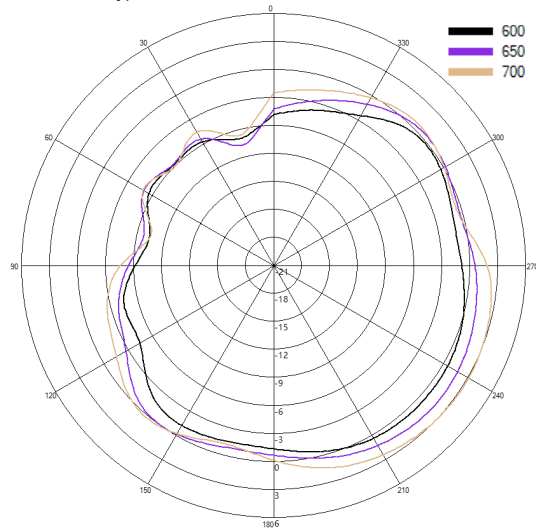


### 3D Patterns -Cell B

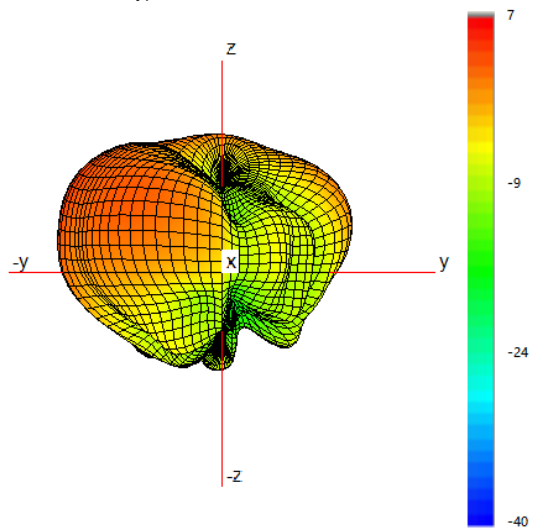
Typical 3D Pattern- Cell B - 650 MHz



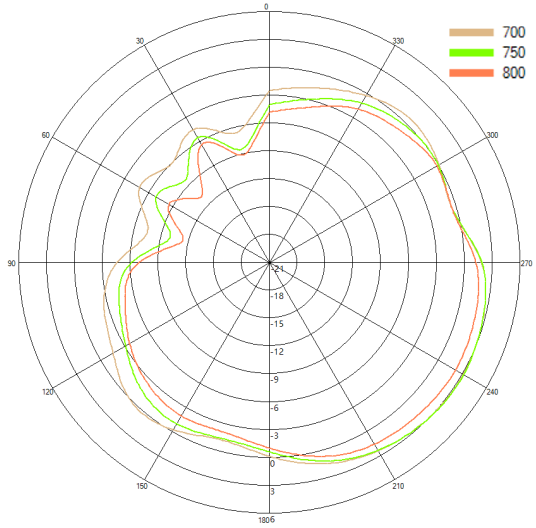
Typical H Plane- Cell B - Patterns- 600-700MHz



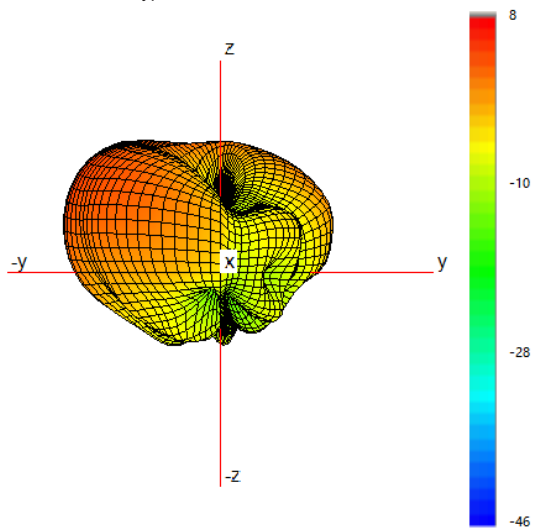
Typical 3D Pattern- Cell B - 750 MHz



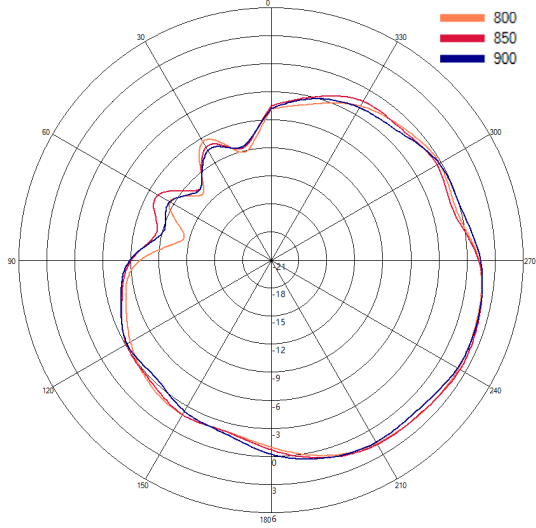
Typical H Plane- Cell B - Patterns- 700-800MHz



Typical 3D Pattern- Cell B - 850 MHz

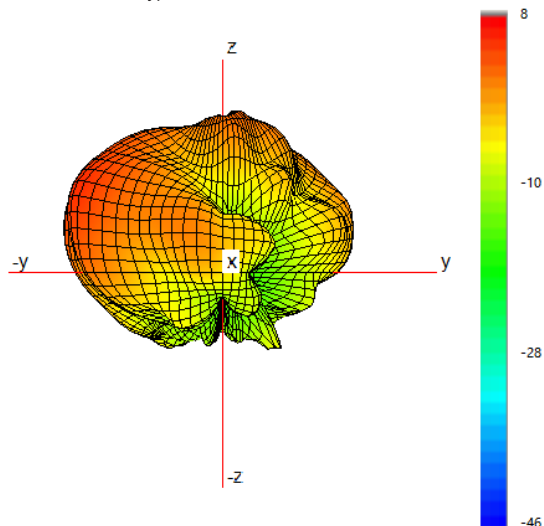


Typical H Plane- Cell B - Patterns- 800-900MHz

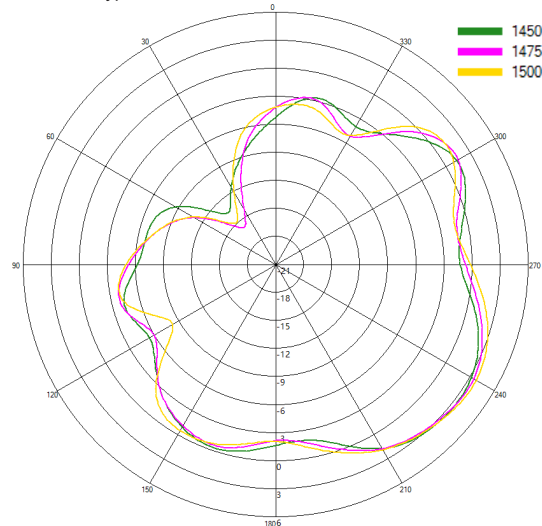


### 3D Patterns Cell B

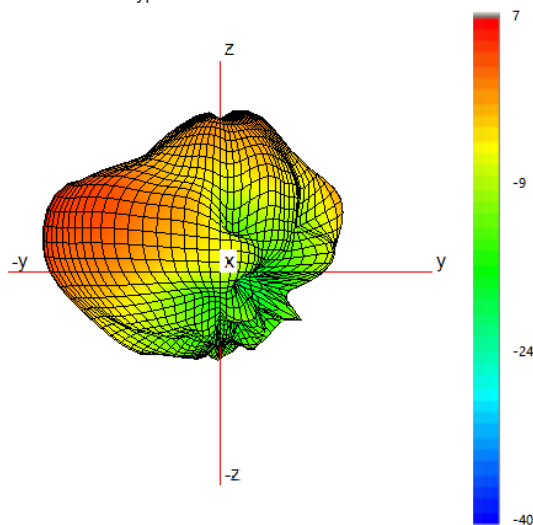
Typical 3D Pattern- Cell B - 1475 MHz



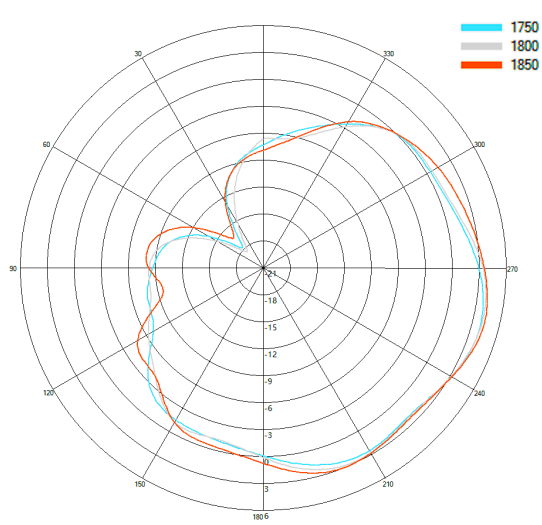
Typical H Plane- Cell B- Patterns- 1450-1500 MHz



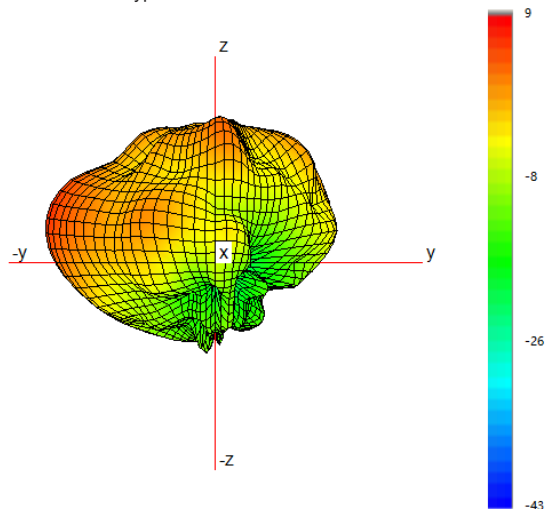
Typical 3D Pattern- Cell B - 1800 MHz



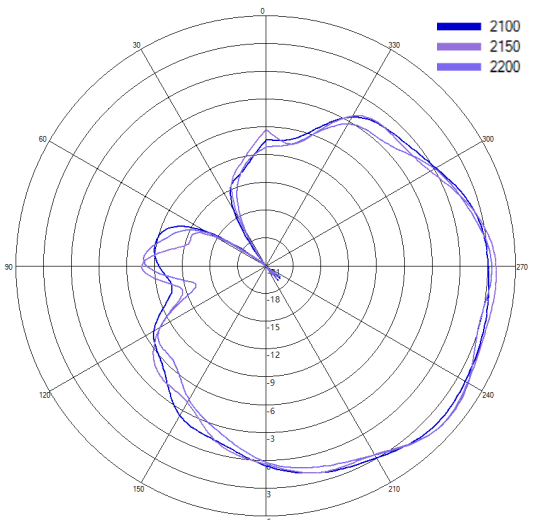
Typical H Plane- Cell B- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell B - 2150 MHz

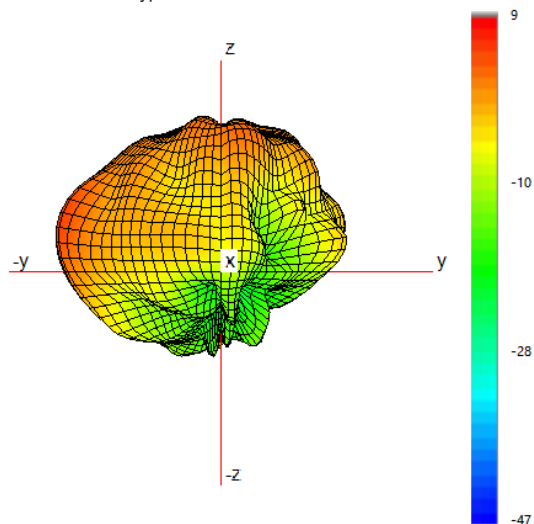


Typical H Plane- Cell B- Patterns- 2100-2200 MHz

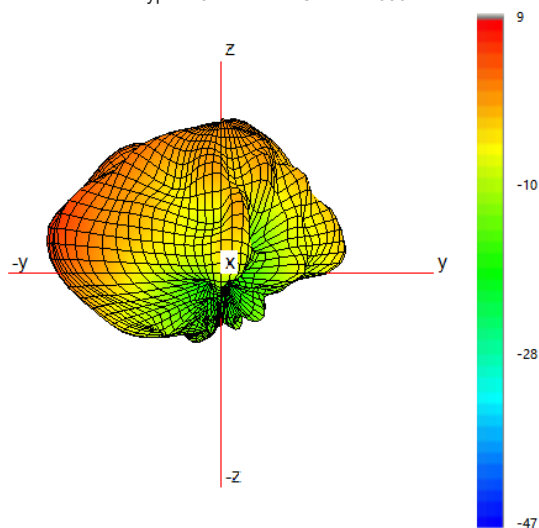


### 3D Patterns -Cell B

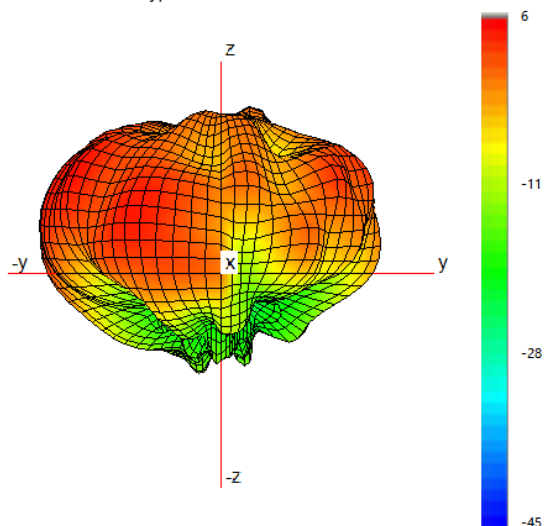
Typical 3D Pattern- Cell B - 2350 MHz



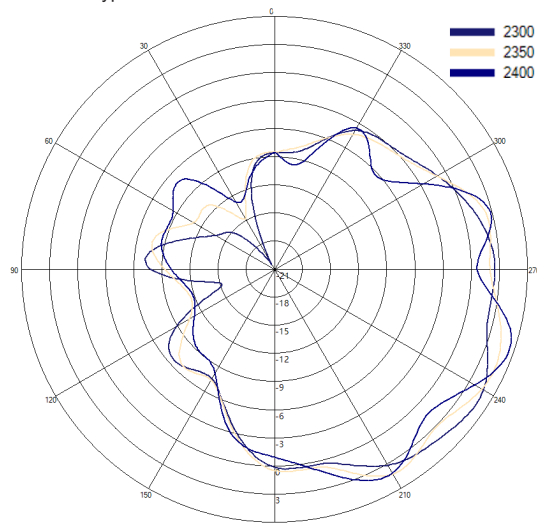
Typical 3D Pattern- Cell B - 2650 MHz



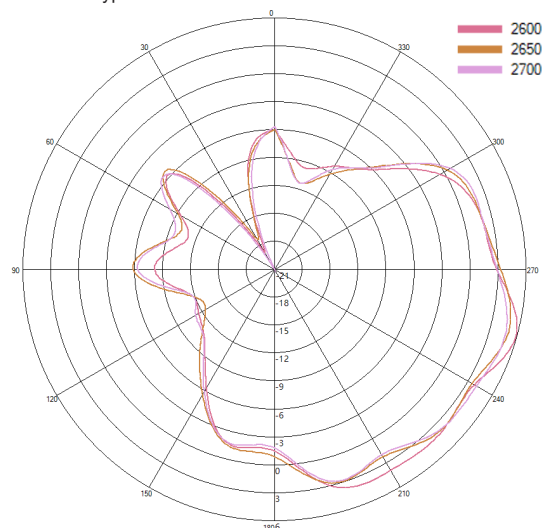
Typical 3D Pattern- Cell B - 3600 MHz



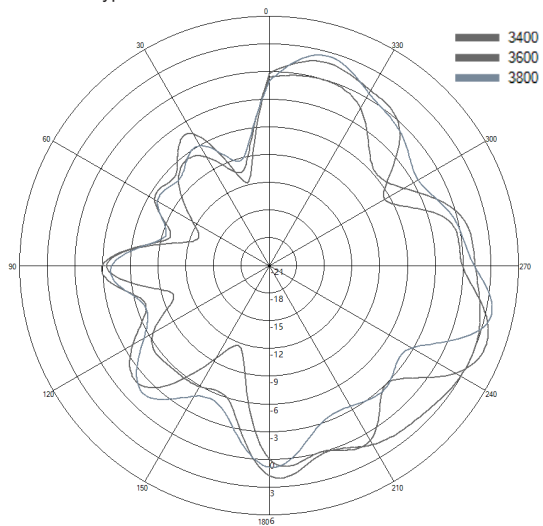
Typical H Plane- Cell B - Patterns- 2300-2400 MHz



Typical H Plane- Cell B - Patterns- 2600-2700 MHz



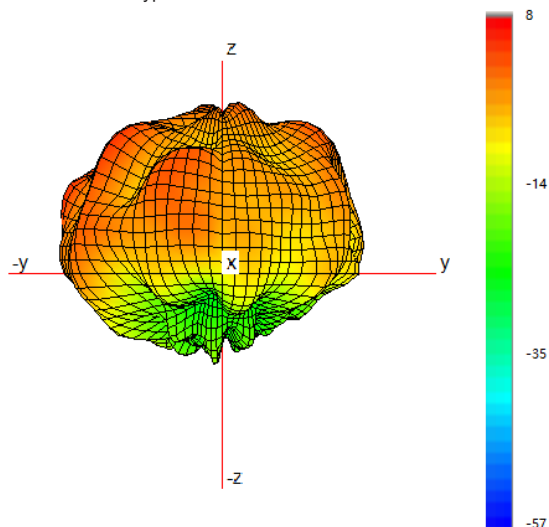
Typical H Plane- Cell B - Patterns- 3400-3800 MHz



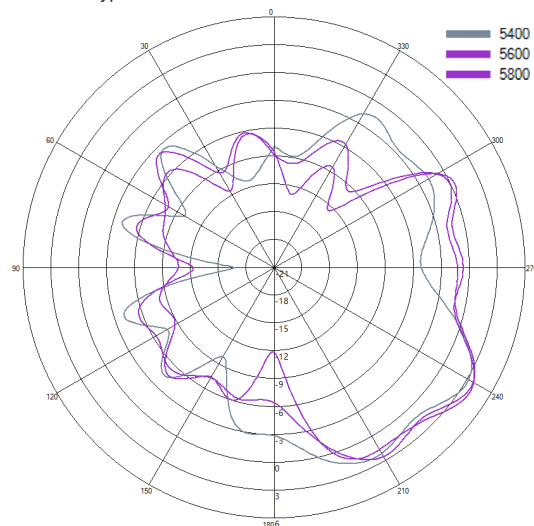


### 3D Patterns Cell B

Typical 3D Pattern- Cell B - 5600 MHz

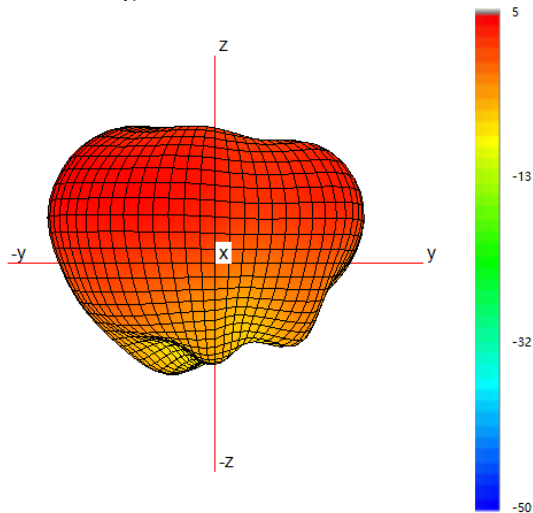


Typical H Plane- Cell B - Patterns- 5400-5800 MHz

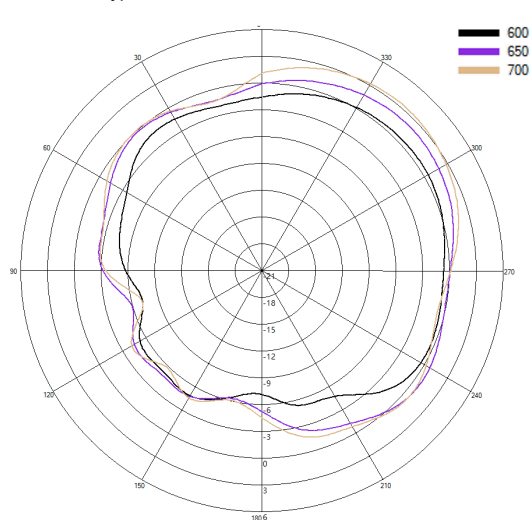


### 3D Patterns -Cell C

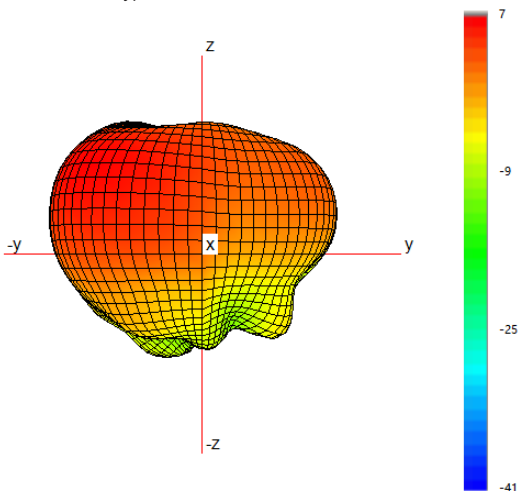
Typical 3D Pattern- Cell C - 650 MHz



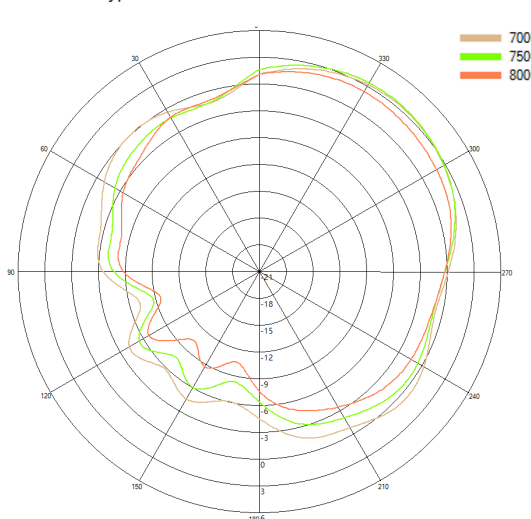
Typical H Plane- Cell C - Patterns- 600-700MHz



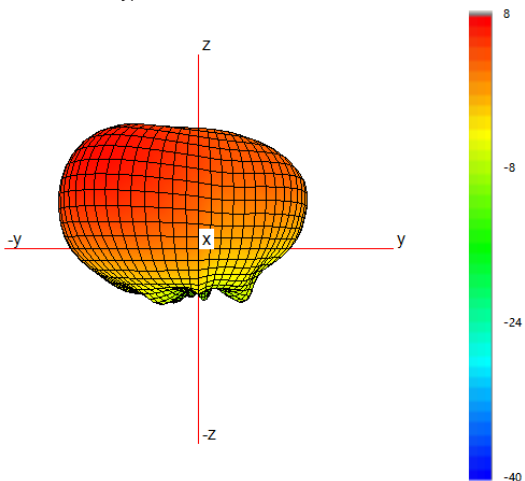
Typical 3D Pattern- Cell C - 750 MHz



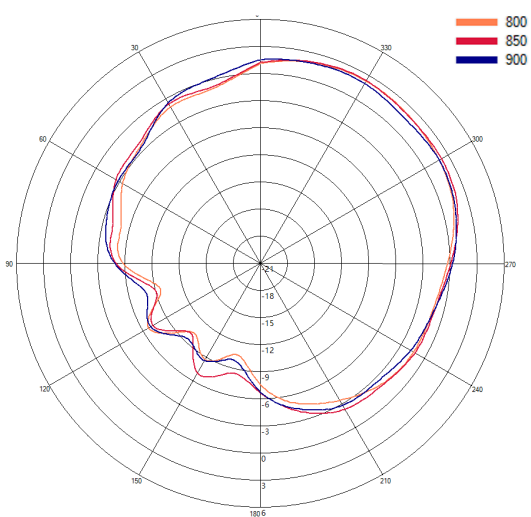
Typical H Plane- Cell C - Patterns- 700-800MHz



Typical 3D Pattern- Cell C - 850 MHz

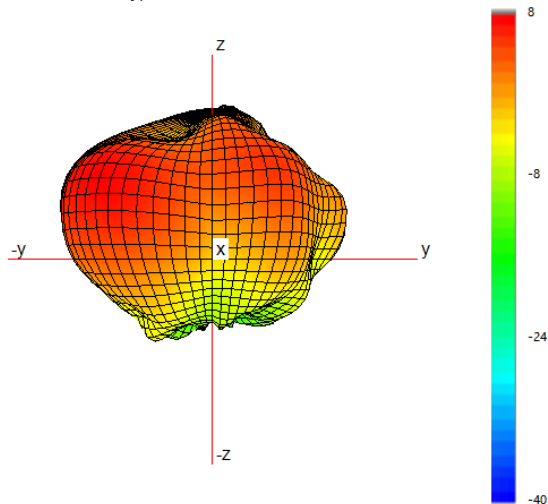


Typical H Plane- Cell C - Patterns- 800-900MHz

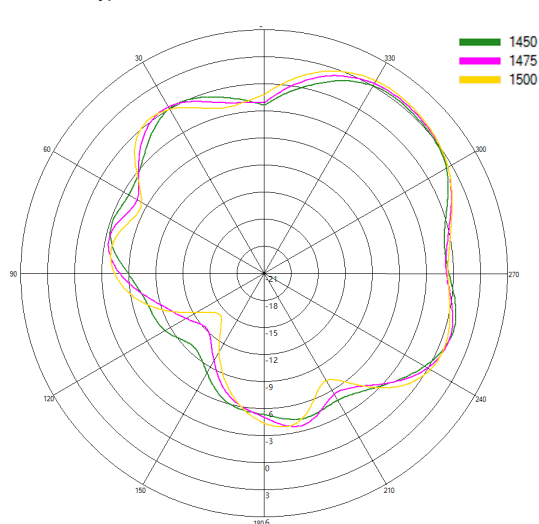


### 3D Patterns Cell C

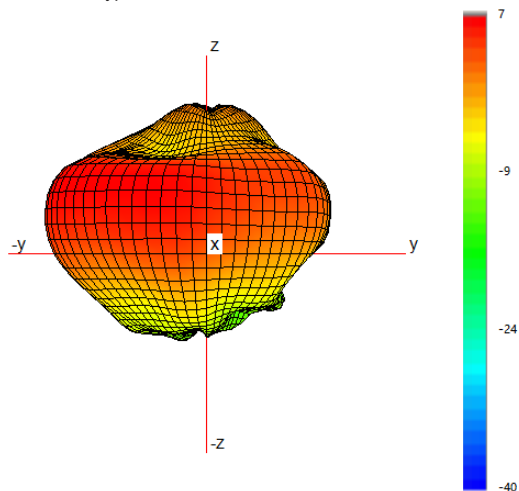
Typical 3D Pattern- Cell C - 1475 MHz



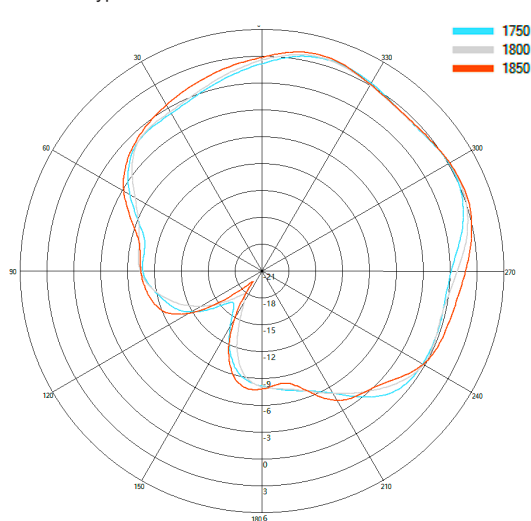
Typical H Plane- Cell C- Patterns- 1450-1500 MHz



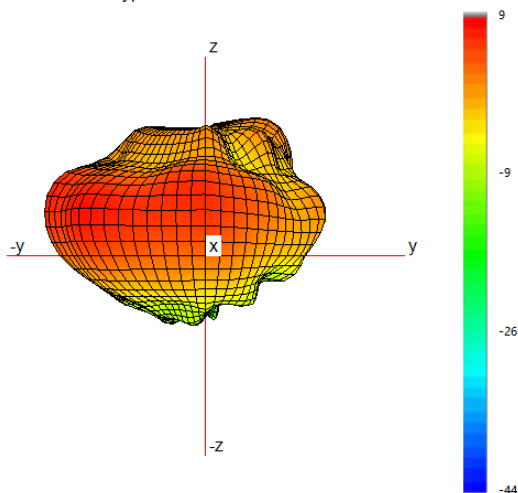
Typical 3D Pattern- Cell C - 1800 MHz



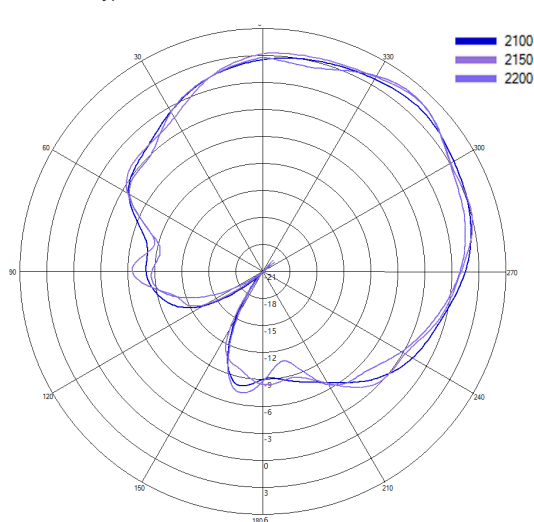
Typical H Plane- Cell C- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell C - 2150 MHz

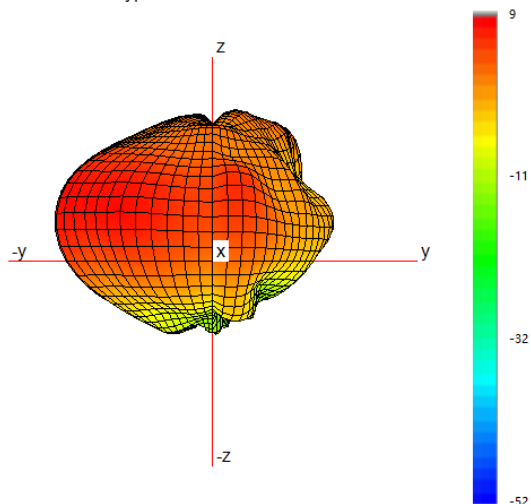


Typical H Plane- Cell C- Patterns- 2100-2200 MHz

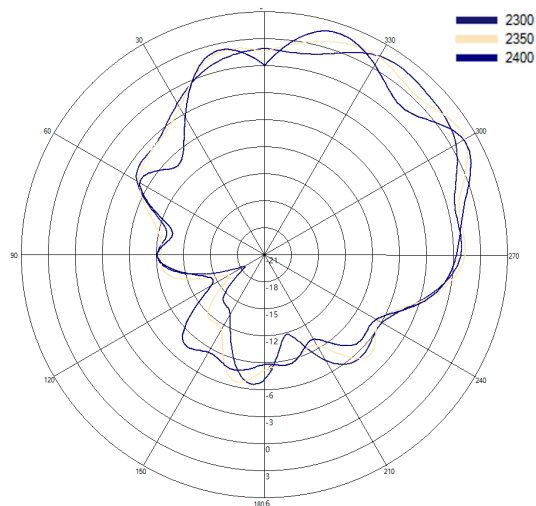


### 3D Patterns -Cell C

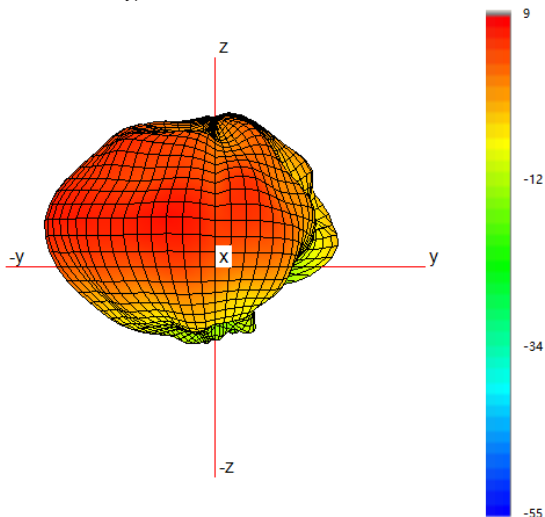
Typical 3D Pattern- Cell C - 2350 MHz



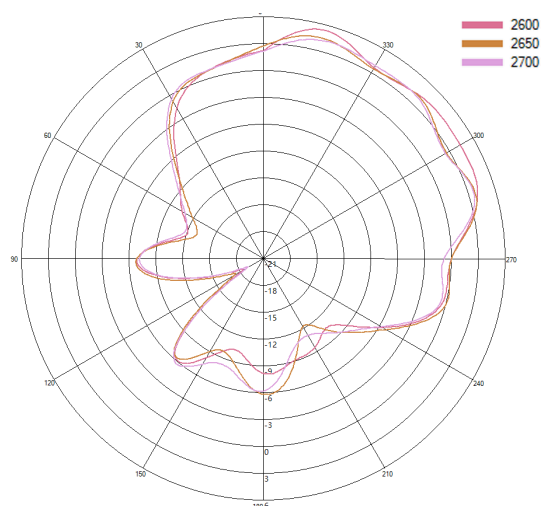
Typical H Plane- Cell C - Patterns- 2300-2400 MHz



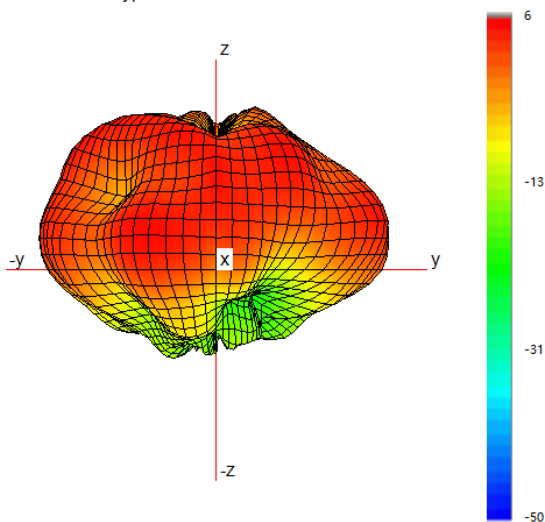
Typical 3D Pattern- Cell C - 2650 MHz



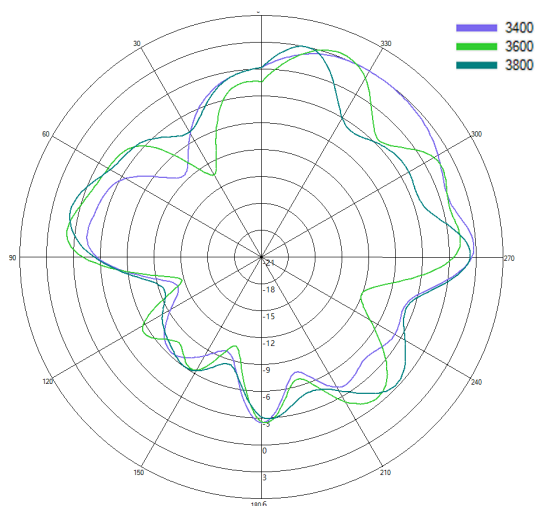
Typical H Plane- Cell C - Patterns- 2600-2700 MHz



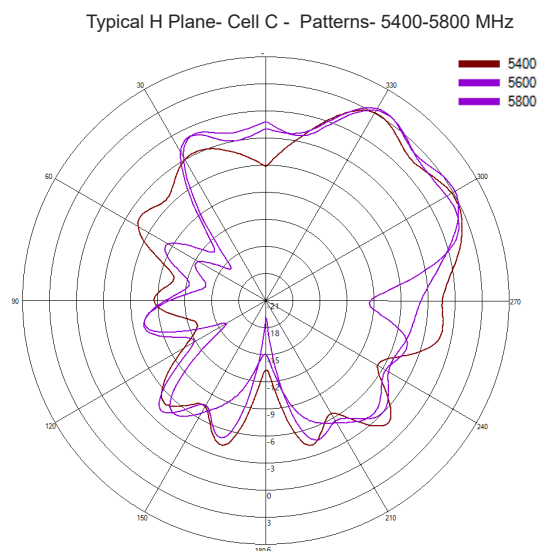
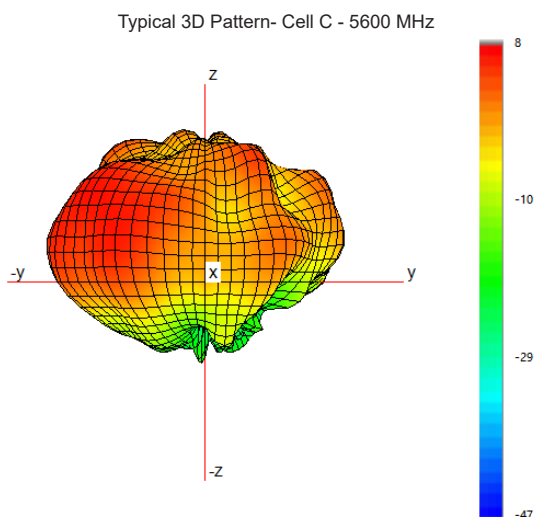
Typical 3D Pattern- Cell C - 3600 MHz



Typical H Plane- Cell C - Patterns- 3400-3800 MHz



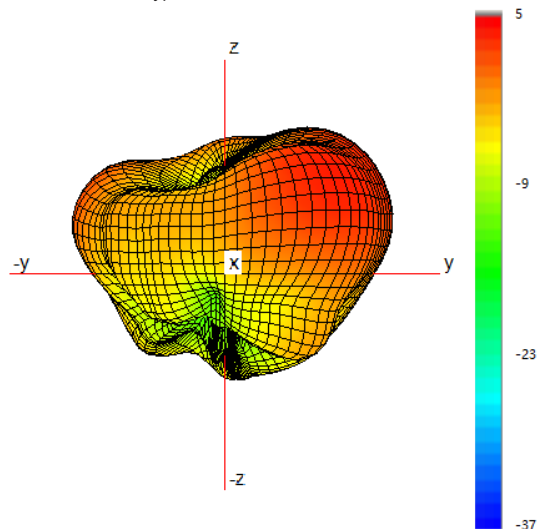
### 3D Patterns Cell C



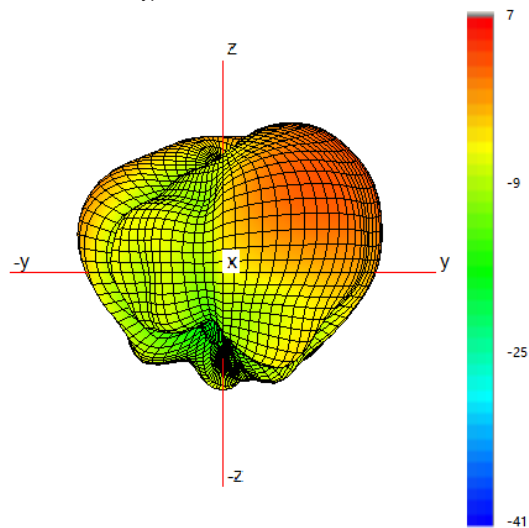


### 3D Patterns -Cell D

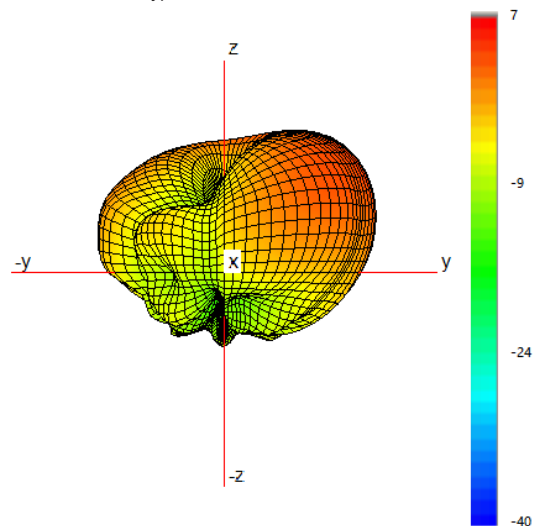
Typical 3D Pattern- Cell D - 650 MHz



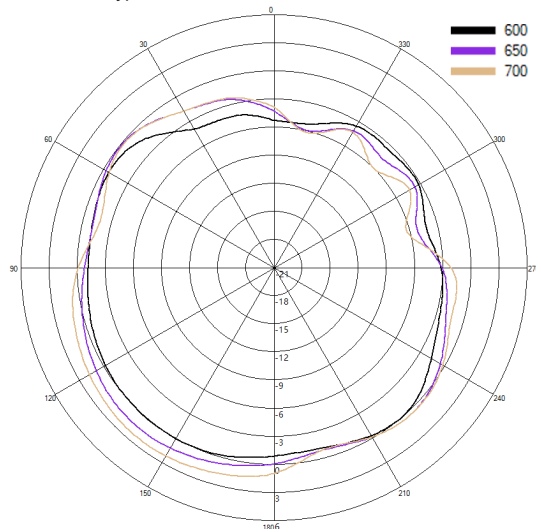
Typical 3D Pattern- Cell D - 750 MHz



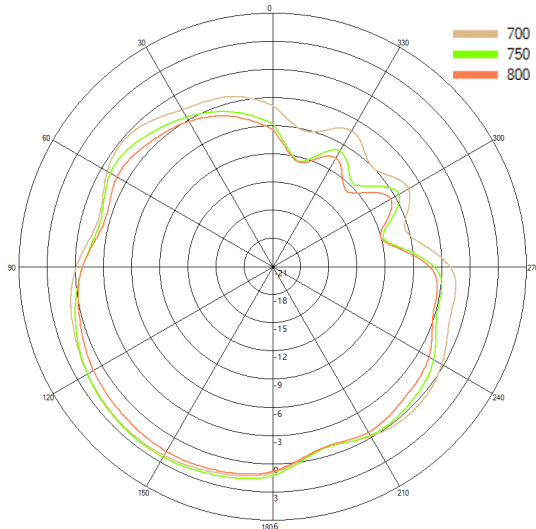
Typical 3D Pattern- Cell D - 850 MHz



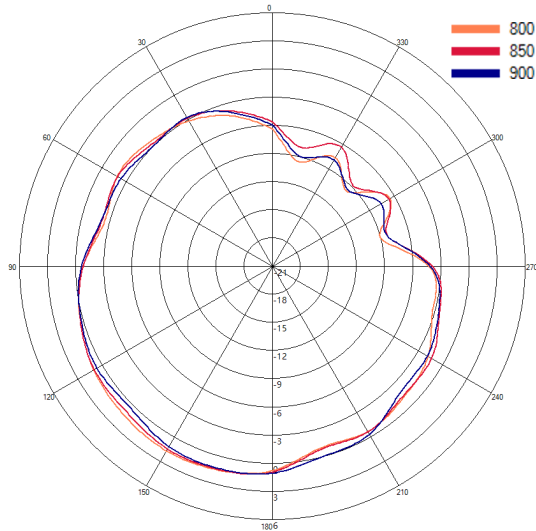
Typical H Plane- Cell D - Patterns- 600-700MHz



Typical H Plane- Cell D - Patterns- 700-800MHz

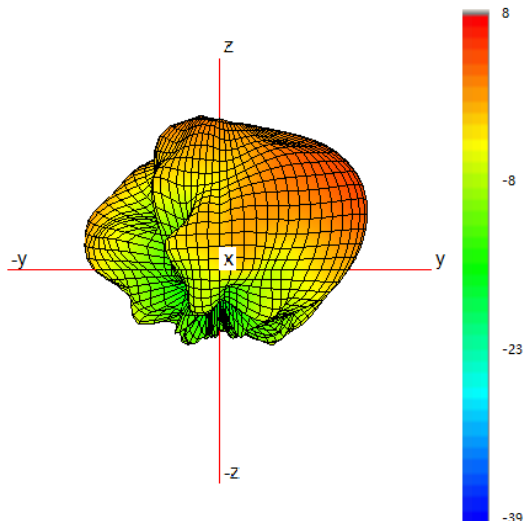


Typical H Plane- Cell D - Patterns- 800-900MHz

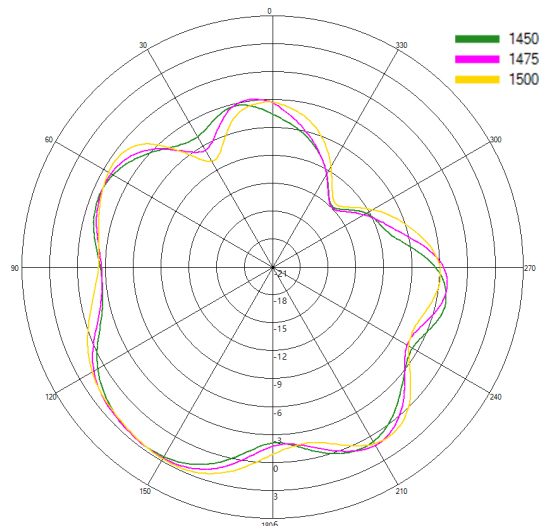


### 3D Patterns Cell D

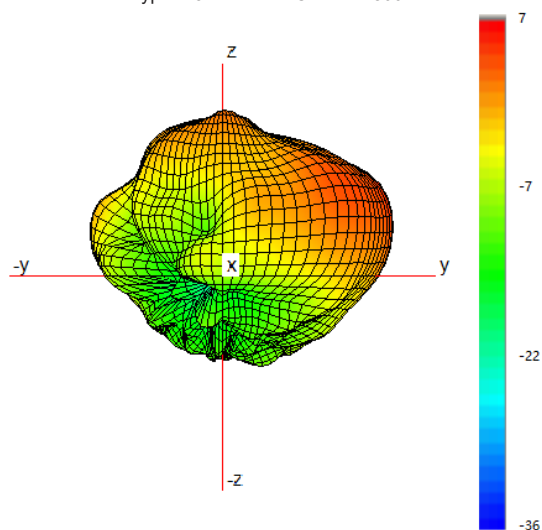
Typical 3D Pattern- Cell D - 1475 MHz



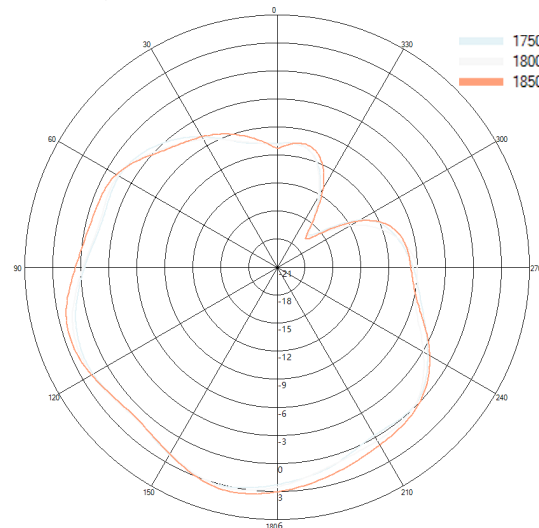
Typical H Plane- Cell D- Patterns- 1450-1500 MHz



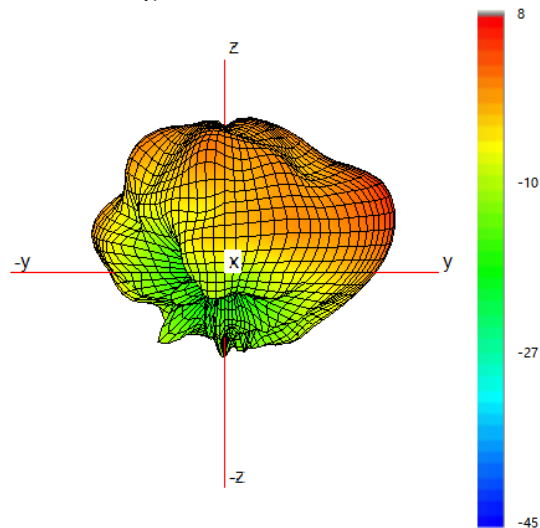
Typical 3D Pattern- Cell D - 1800 MHz



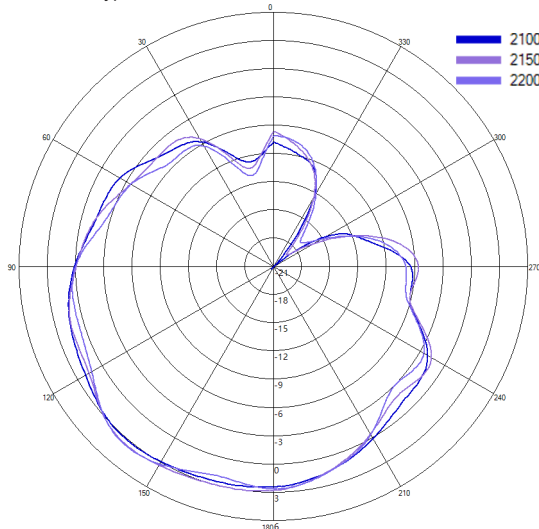
Typical H Plane- Cell D- Patterns- 1750-1850 MHz



Typical 3D Pattern- Cell D - 2150 MHz

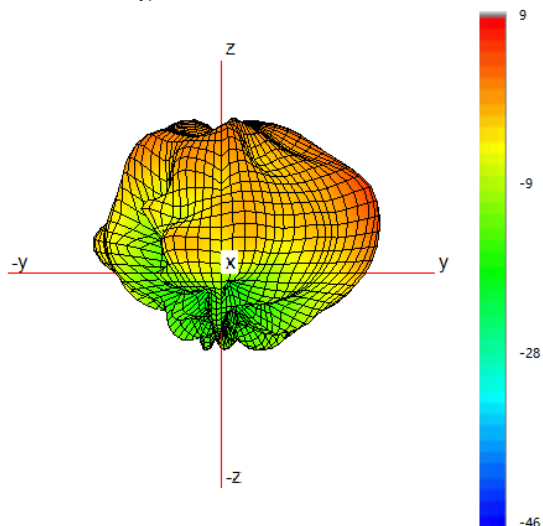


Typical H Plane- Cell D- Patterns- 2100-2200 MHz

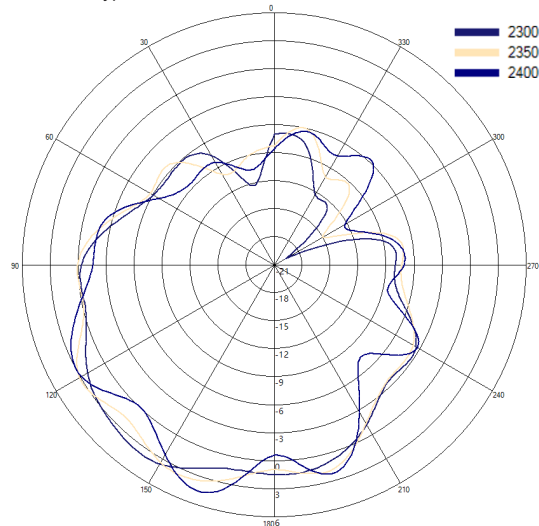


### 3D Patterns -Cell D

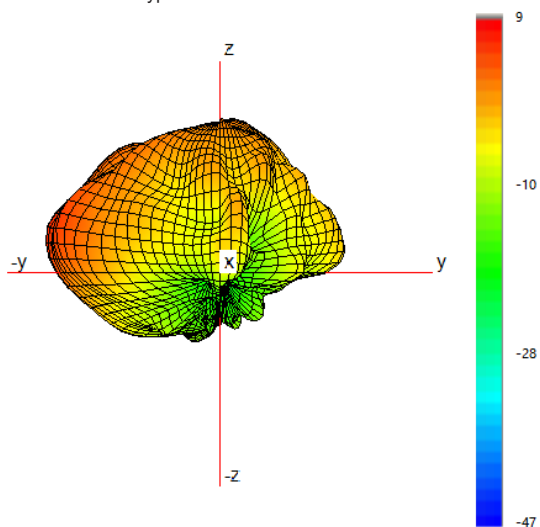
Typical 3D Pattern- Cell D - 2350 MHz



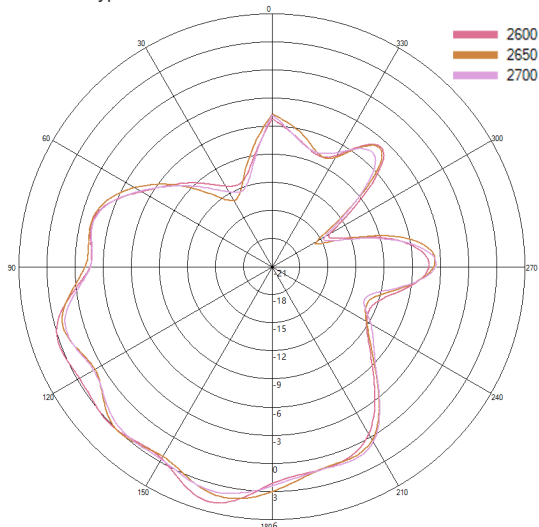
Typical H Plane- Cell D - Patterns- 2300-2400 MHz



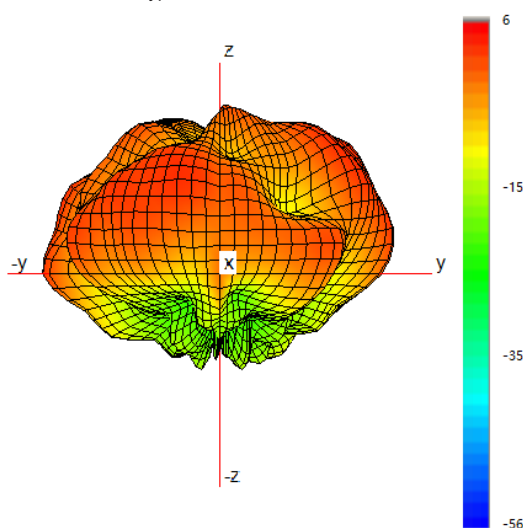
Typical 3D Pattern- Cell D - 2650 MHz



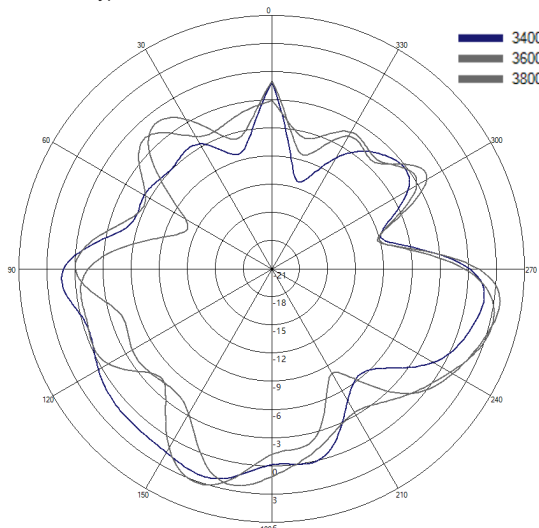
Typical H Plane- Cell D - Patterns- 2600-2700 MHz



Typical 3D Pattern- Cell D - 3600 MHz

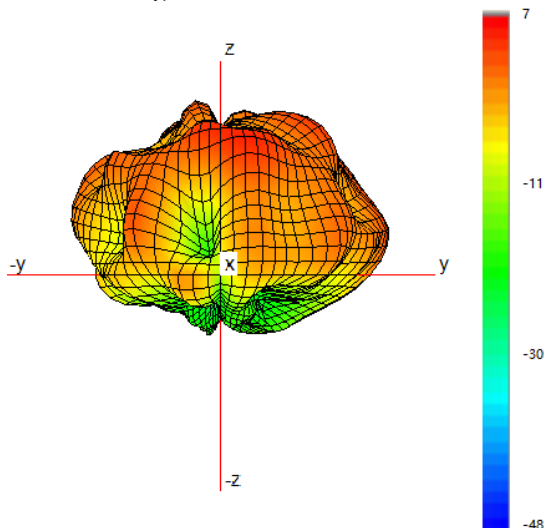


Typical H Plane- Cell D - Patterns- 3400-3800 MHz

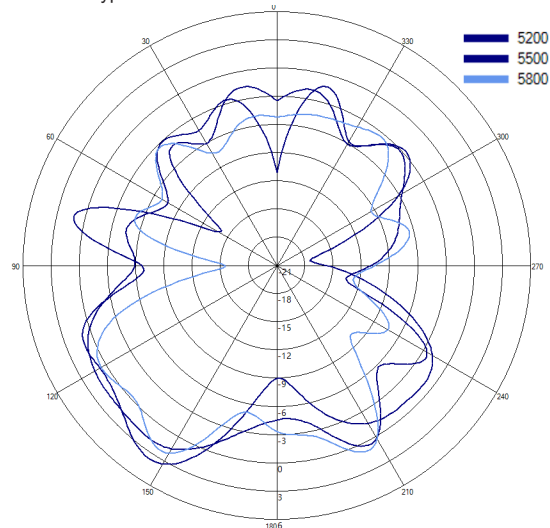


### 3D Patterns Cell D

Typical 3D Pattern- Cell D - 5600 MHz

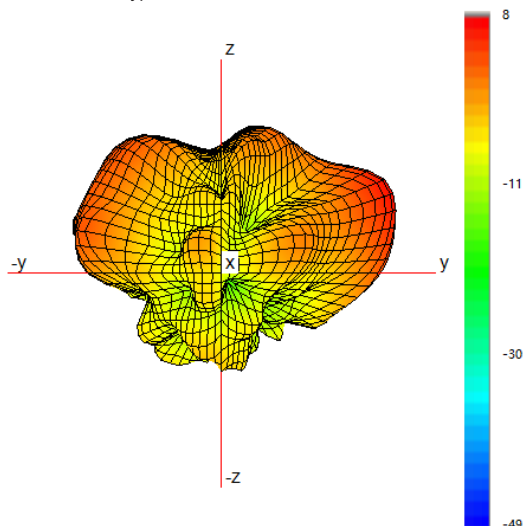


Typical H Plane- Cell D - Patterns- 5400-5800 MHz

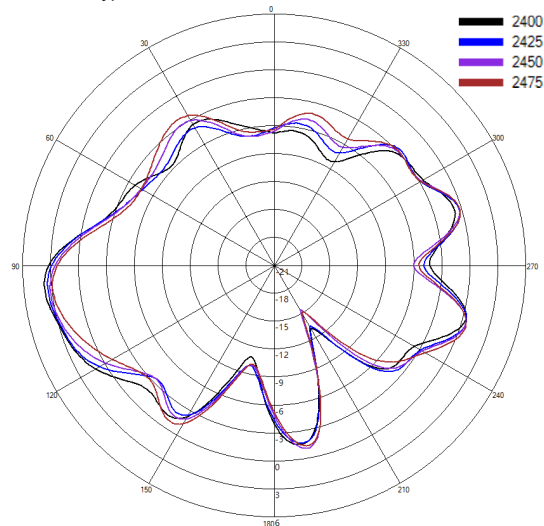


### WiFi Patterns -WiFi -1

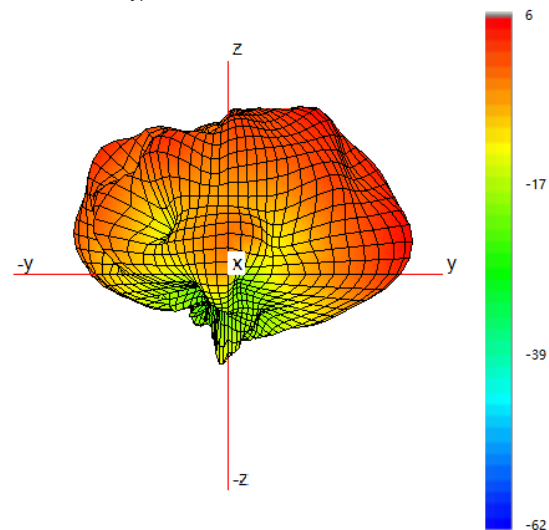
Typical 3D Pattern- WiFi - 1 - 2450 MHz



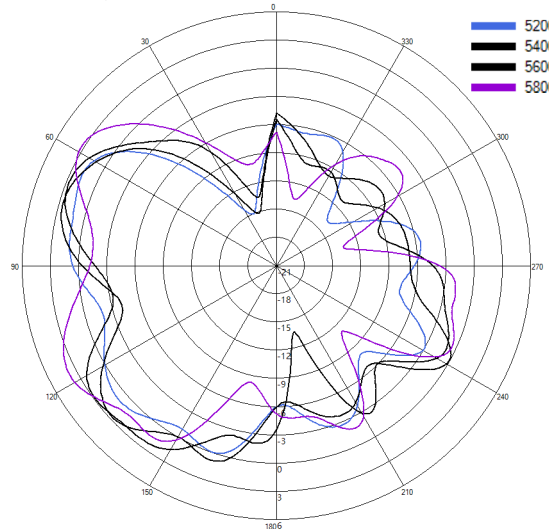
Typical H Plane- WiFi - 1 - Patterns- 2400-2475MHz



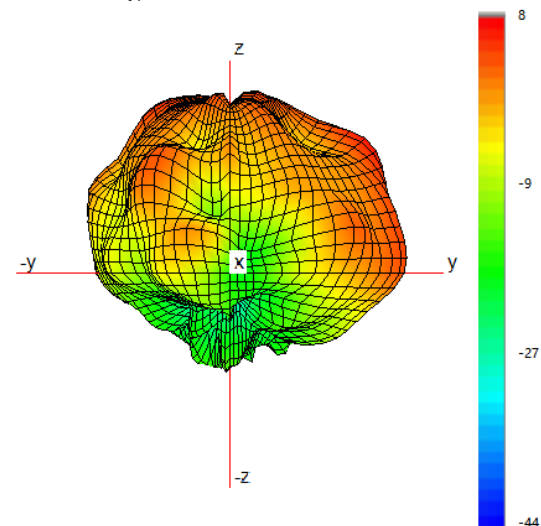
Typical 3D Pattern- WiFi - 1 - 5500 MHz



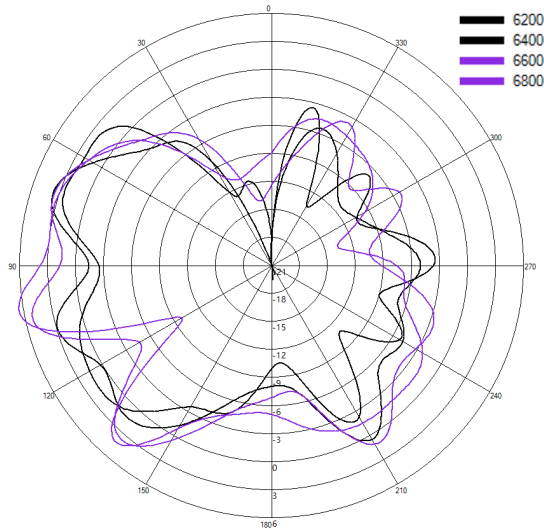
Typical H Plane- WiFi - 1 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 1 - 6500 MHz



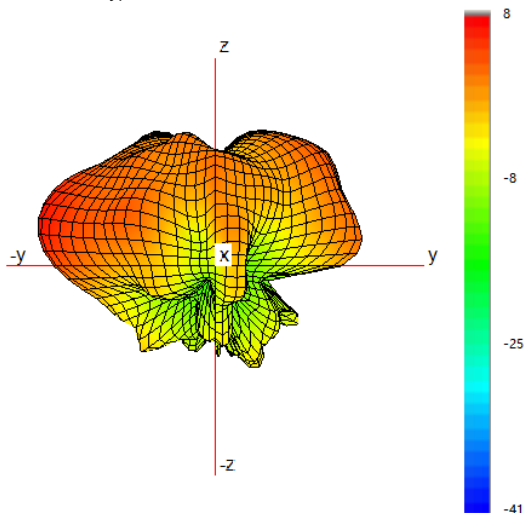
Typical H Plane- WiFi - 1 - Patterns- 6200-6800MHz



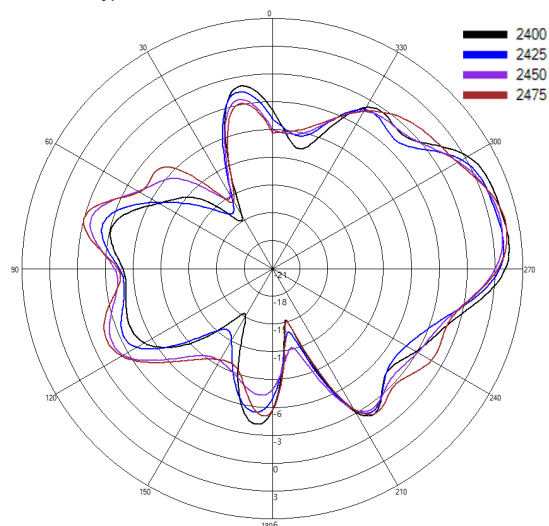


### WiFi Patterns -WiFi -2

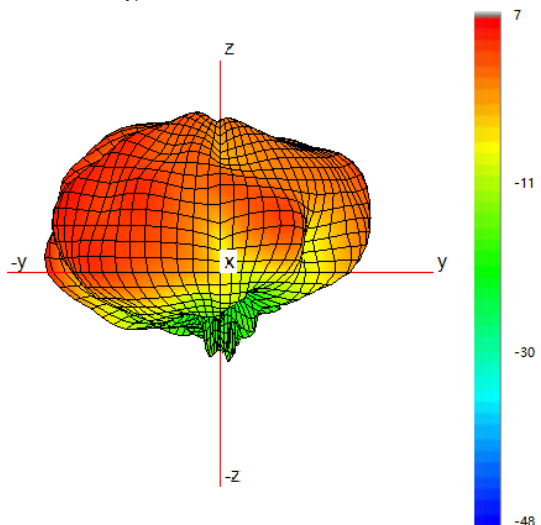
Typical 3D Pattern- WiFi - 2 - 2450 MHz



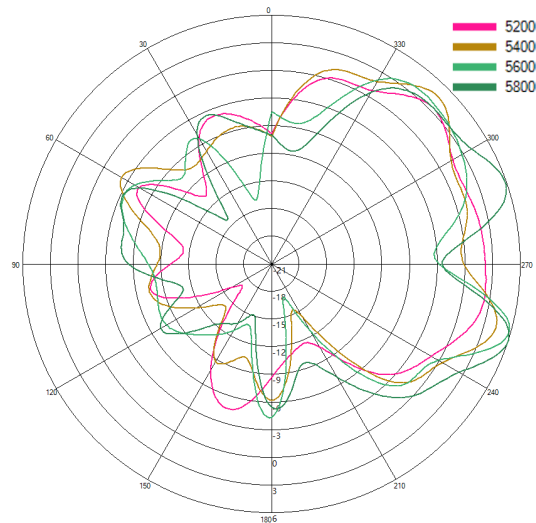
Typical H Plane- WiFi - 2 - Patterns- 2400-2475MHz



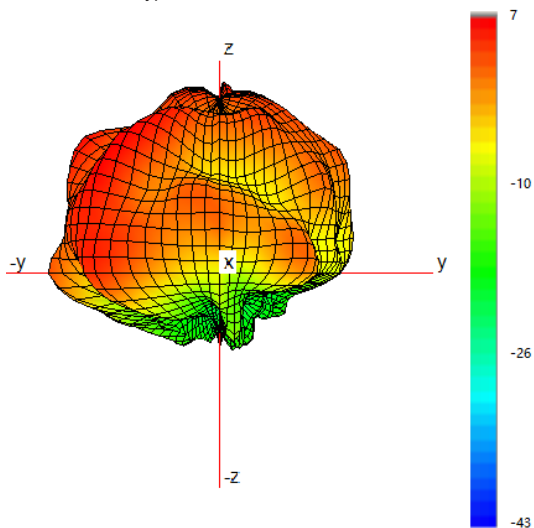
Typical 3D Pattern- WiFi - 2 - 5500 MHz



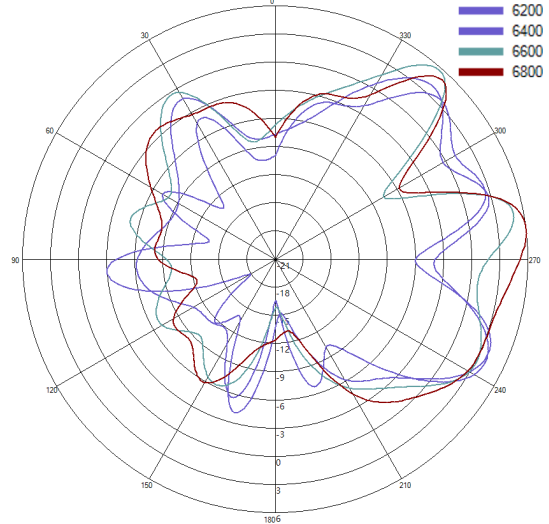
Typical H Plane- WiFi - 2 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 2 - 6500 MHz

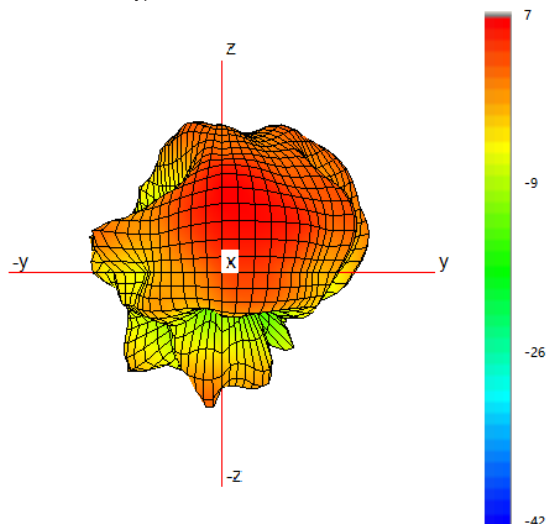


Typical H Plane- WiFi - 2 - Patterns- 6200-6800MHz

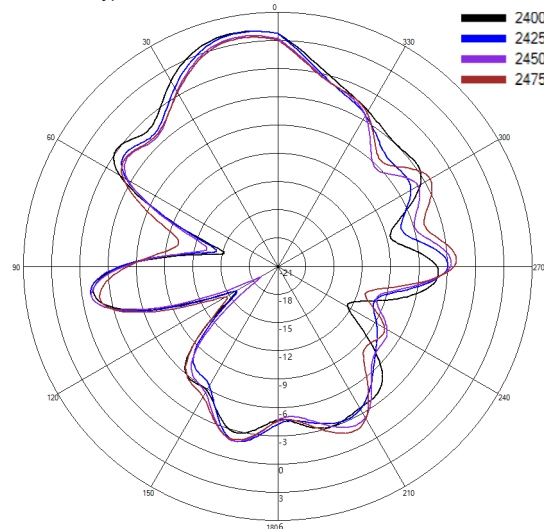


### WiFi Patterns -WiFi -3

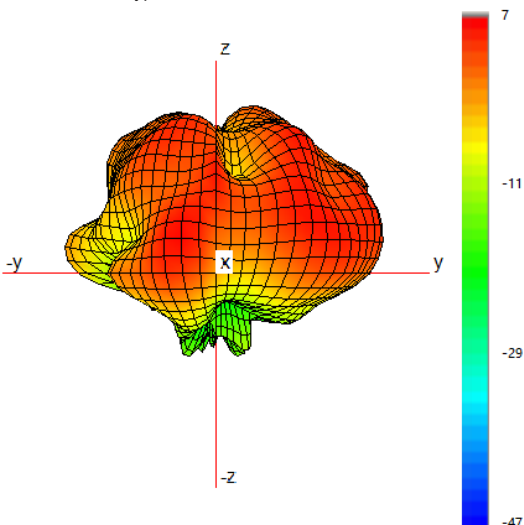
Typical 3D Pattern- WiFi - 3 - 2450 MHz



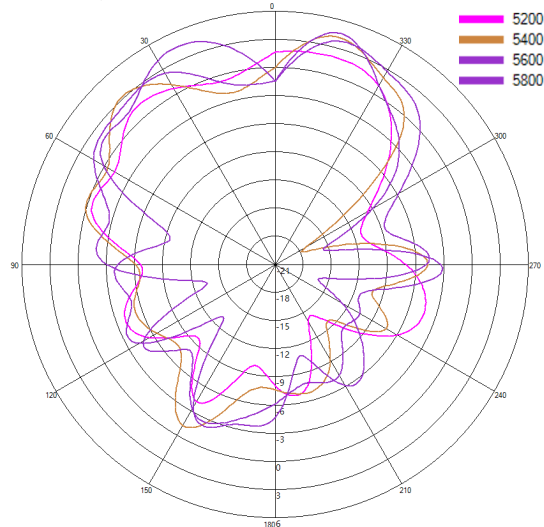
Typical H Plane- WiFi - 3 - Patterns- 2400-2475MHz



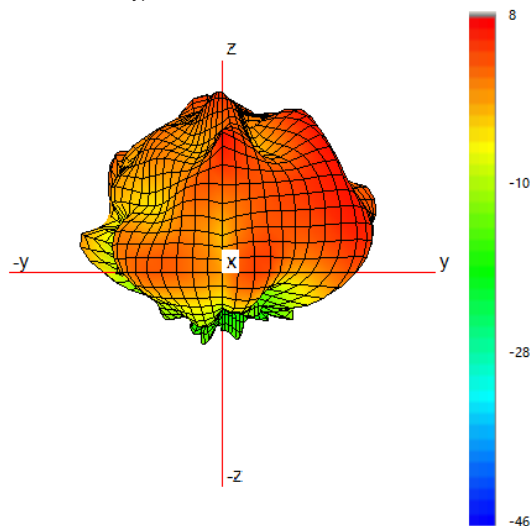
Typical 3D Pattern- WiFi - 3 - 5500 MHz



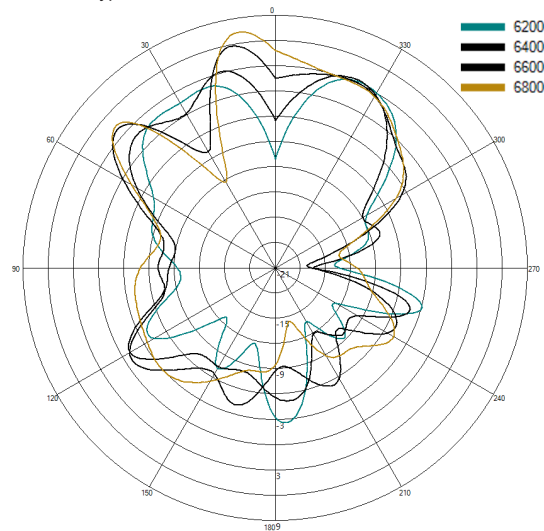
Typical H Plane- WiFi - 3 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 3 - 6500 MHz

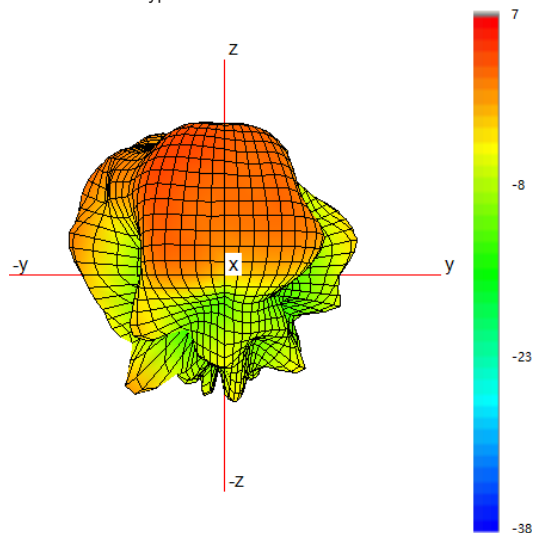


Typical H Plane- WiFi - 3 - Patterns- 6200-6800MHz

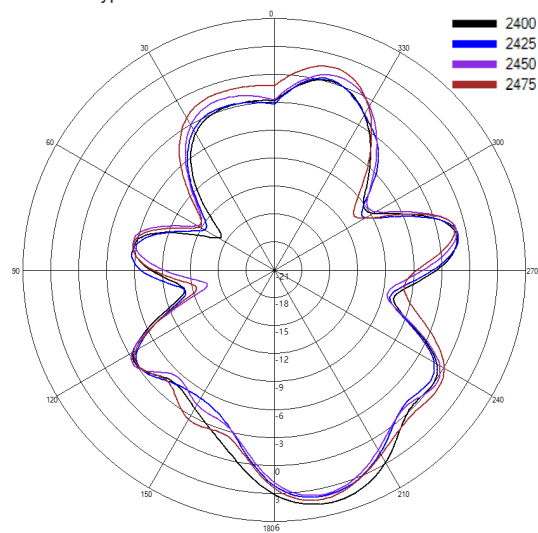


### WiFi Patterns -WiFi -4

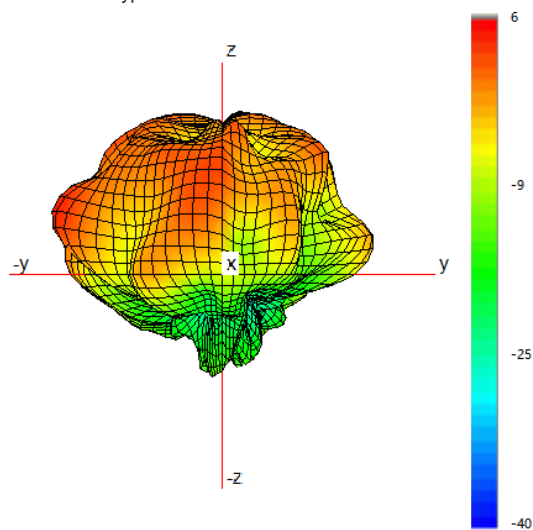
Typical 3D Pattern- WiFi - 4 - 2450 MHz



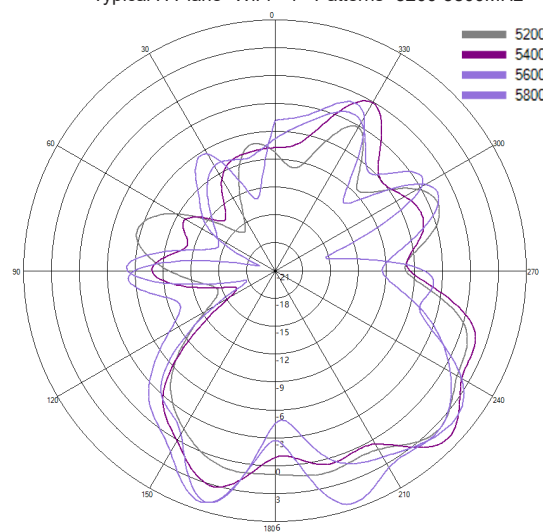
Typical H Plane- WiFi - 4 - Patterns- 2400-2475MHz



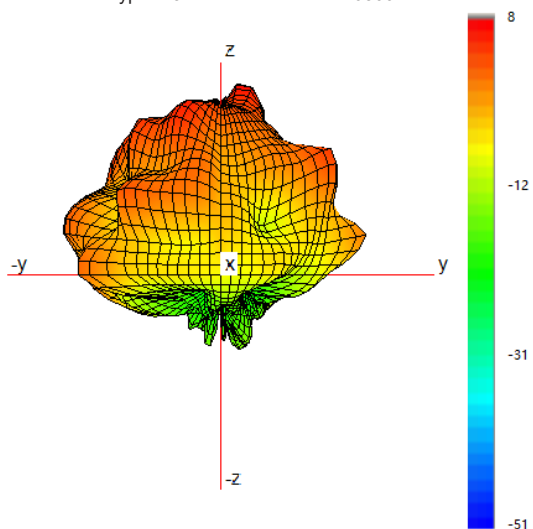
Typical 3D Pattern- WiFi - 4 - 5500 MHz



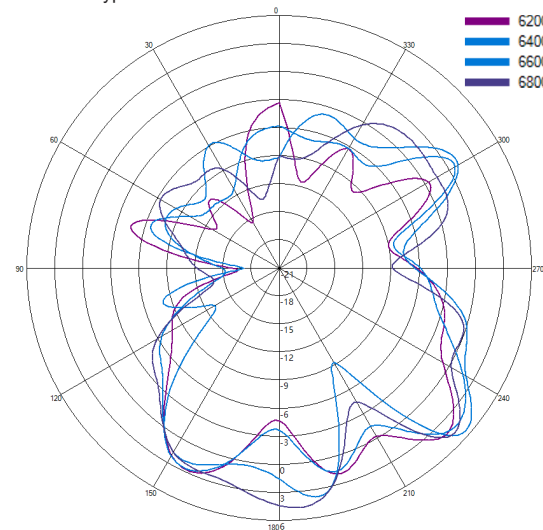
Typical H Plane- WiFi - 4 - Patterns- 5200-5800MHz



Typical 3D Pattern- WiFi - 4 - 6500 MHz



Typical H Plane- WiFi - 4 - Patterns- 6200-6800MHz

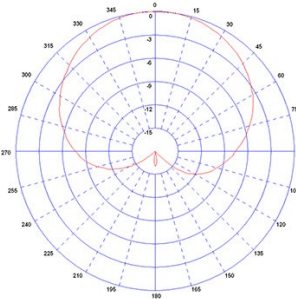


# 4X4 MiMo 4G/5G Transit Antenna

TRNM[X]4-6-60-[X]

## E-Plane Patterns- GPS/GNSS

GPS 1575MHz Typical E Plane



GPS 1602MHz Typical E Plane

