

**Antenna Type: PIFA****13142****RFA-J15-T379-5-3M****Specifications**

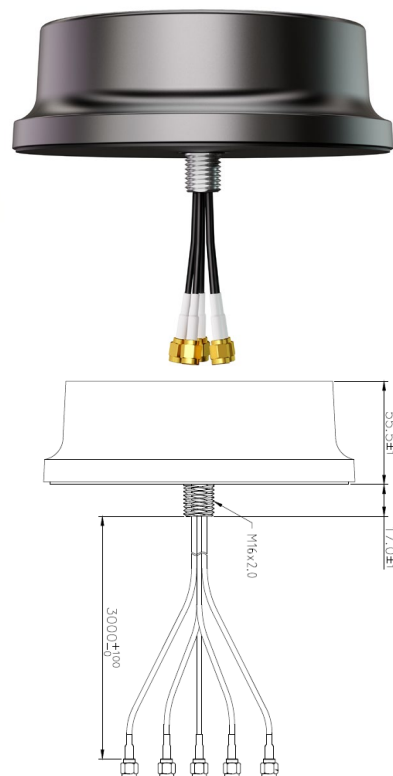
| Antenna         | Tri-band-Antenna 1 |             |             | Tri-band-Antenna 2 |             |             |
|-----------------|--------------------|-------------|-------------|--------------------|-------------|-------------|
| Frequency (MHz) | 2400-2500          | 5150-5925   | 6200-7125   | 2400-2500          | 5150-5925   | 6200-7125   |
| Peak gain       | 1.11 dBi           | 0.26 dBi    | 0.41 dBi    | 1.87 dBi           | 1.53 dBi    | -0.58 dBi   |
| Average gain    | -4.08 dBi          | -6.32 dBi   | -7.79 dBi   | -4.02 dBi          | -6.36 dBi   | -7.91 dBi   |
| Efficiency      | 39.11 %            | 23.38 %     | 16.65 %     | 39.66 %            | 23.16 %     | 16.21 %     |
| VSWR            | 2.0 : 1 Max        | 2.0 : 1 Max | 2.0 : 1 Max | 2.0 : 1 Max        | 2.0 : 1 Max | 2.0 : 1 Max |

| Antenna         | Tri-band-Antenna 3 |             |             | Tri-band-Antenna 4 |             |             |
|-----------------|--------------------|-------------|-------------|--------------------|-------------|-------------|
| Frequency (MHz) | 2400-2500          | 5150-5925   | 6200-7125   | 2400-2500          | 5150-5925   | 6200-7125   |
| Peak gain       | 1.63 dBi           | 0.88 dBi    | -0.88 dBi   | 1.63 dBi           | 0.88 dBi    | -0.88 dBi   |
| Average gain    | -4.11 dBi          | -6.19 dBi   | -7.80 dBi   | -4.11 dBi          | -6.12 dBi   | -7.91 dBi   |
| Efficiency      | 38.85 %            | 24.08 %     | 16.63 %     | 38.85 %            | 24.44 %     | 16.20 %     |
| VSWR            | 2.0 : 1 Max        | 2.0 : 1 Max | 2.0 : 1 Max | 2.0 : 1 Max        | 2.0 : 1 Max | 2.0 : 1 Max |
| Connector       | RP SMA PLUG        |             |             |                    |             |             |
| Impedance       | 50 $\Omega$        |             |             |                    |             |             |
| Cable / Length  | ULA100 / L=3M      |             |             |                    |             |             |

|                    |               |
|--------------------|---------------|
| Antenna            | Sub1G-P1      |
| Frequency (MHz)    | 863-928       |
| Peak gain          | 2.9 dBi       |
| Average gain       | -3.14 dBi     |
| Efficiency         | 48.49 %       |
| VSWR               | 2.0 : 1 Max   |
| Connector          | SMA PLUG      |
| Impedance          | 50 $\Omega$   |
| Cable / Length     | ULA100 / L=3M |
| Ingress Protection | IP65          |

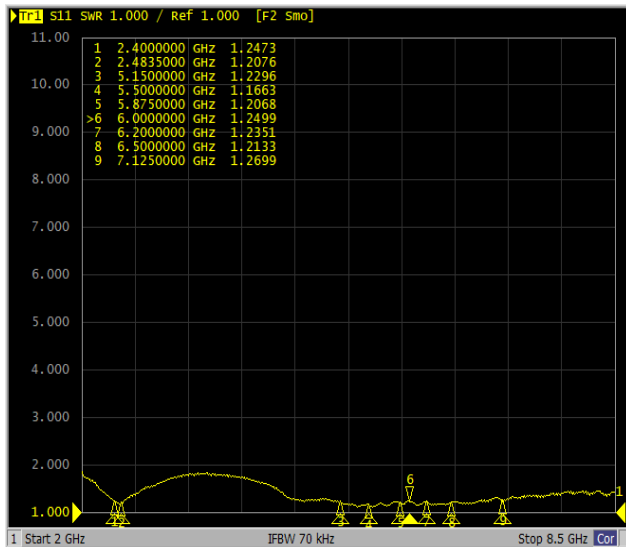
**Environment & Mechanical Characteristics**

|             |                 |
|-------------|-----------------|
| Temperature | - 40°C to +85°C |
| Humidity    | 95% @ 25°C      |

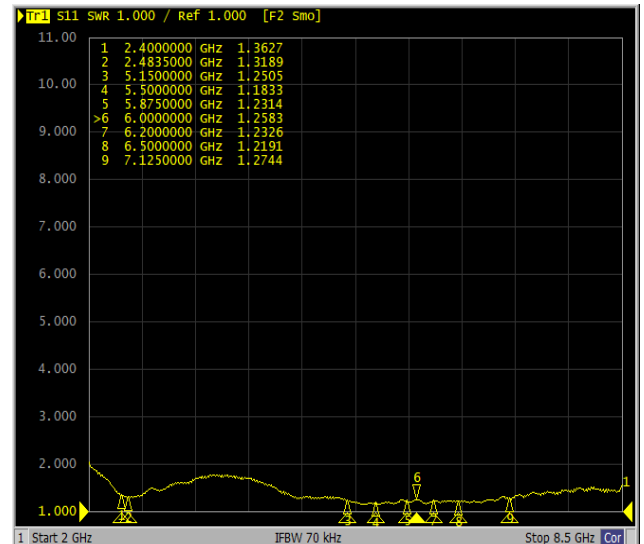


## VSWR

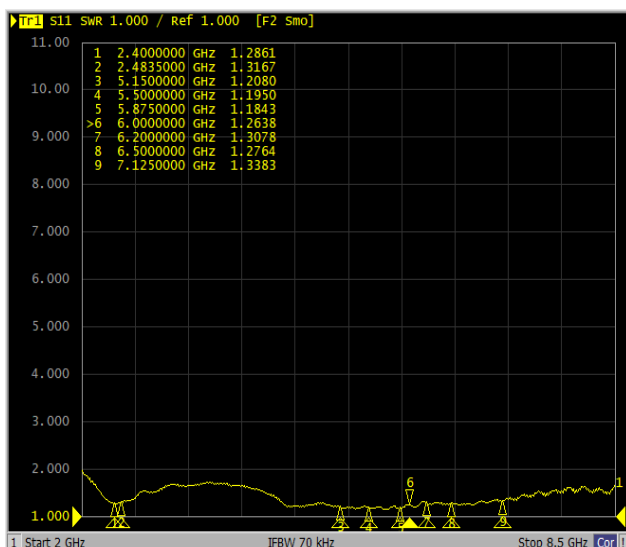
Tri-band-Antenna 1



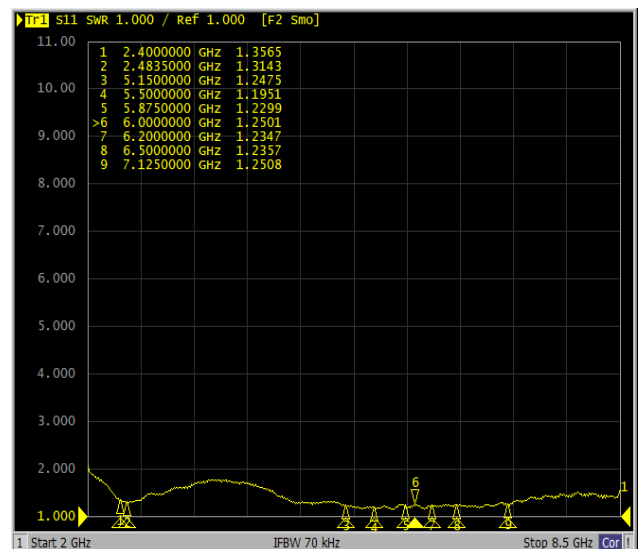
Tri-band-Antenna 2



Tri-band-Antenna 3

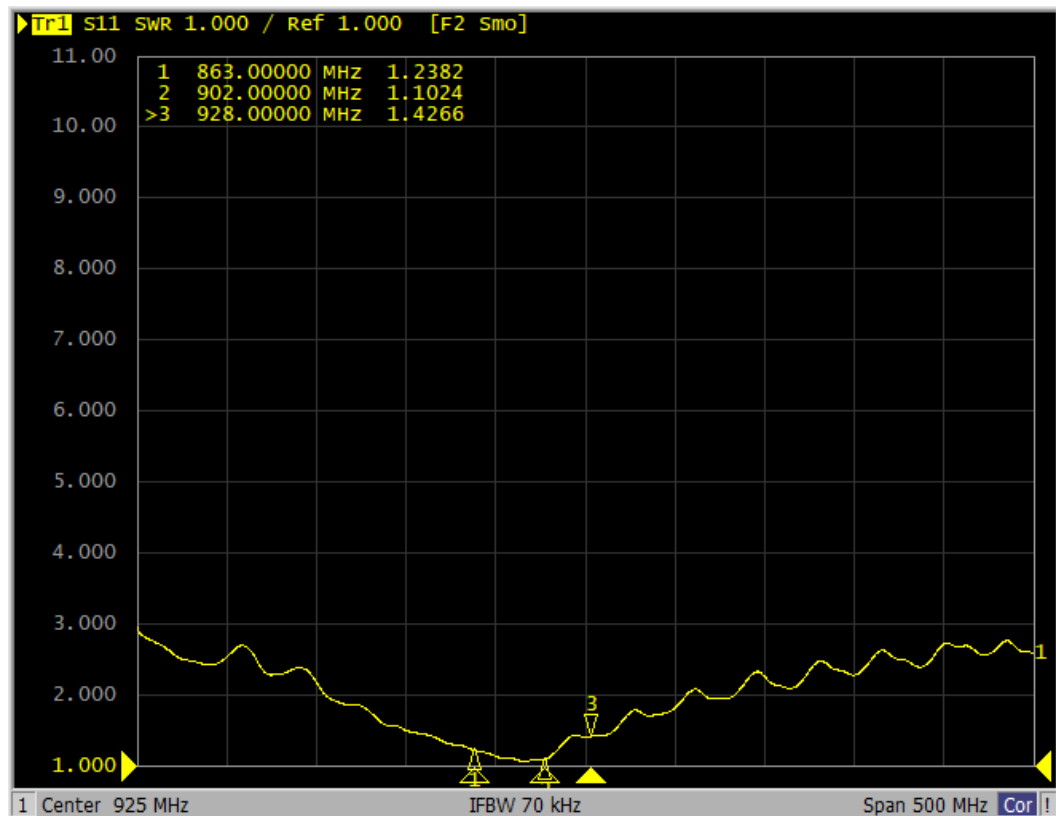


Tri-band-Antenna 4



## VSWR

Sub 1G-Antenna 1



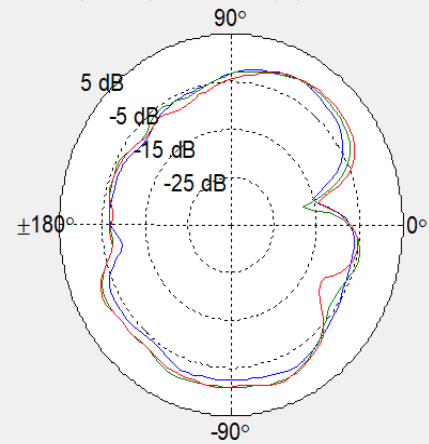
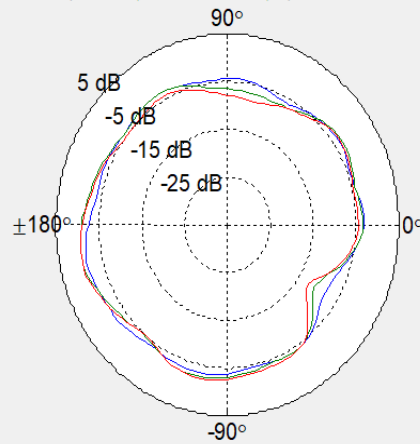
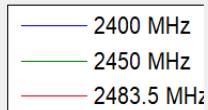
## Radiation Pattern

### Tri-band-Antenna 1

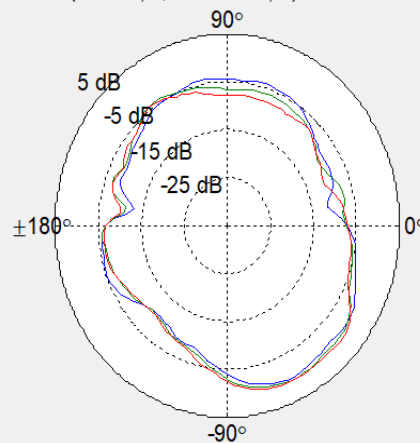
2G Band = 2400 - 2500 MHz % 2G BAND

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



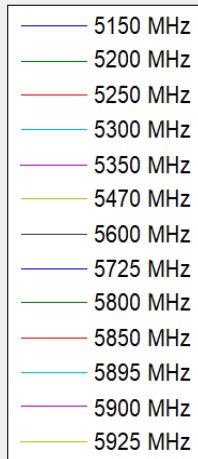
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



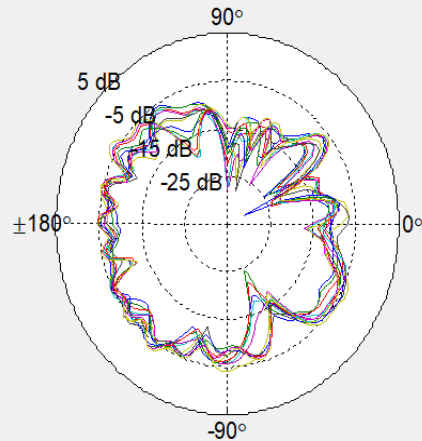
## Radiation Pattern

Tri-band-Antenna 1

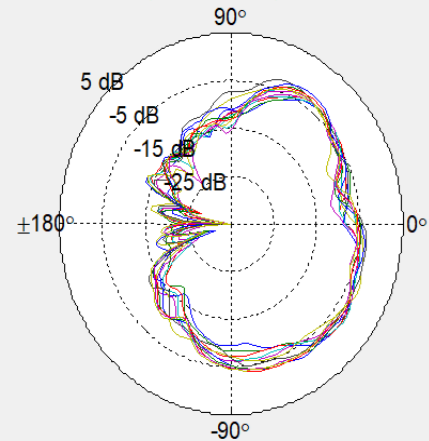
5G Band = 4900 - 5975 MHz



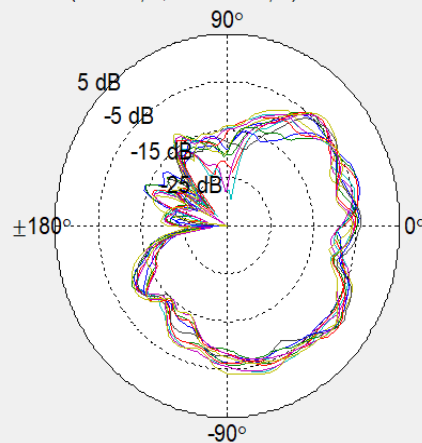
XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X



ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



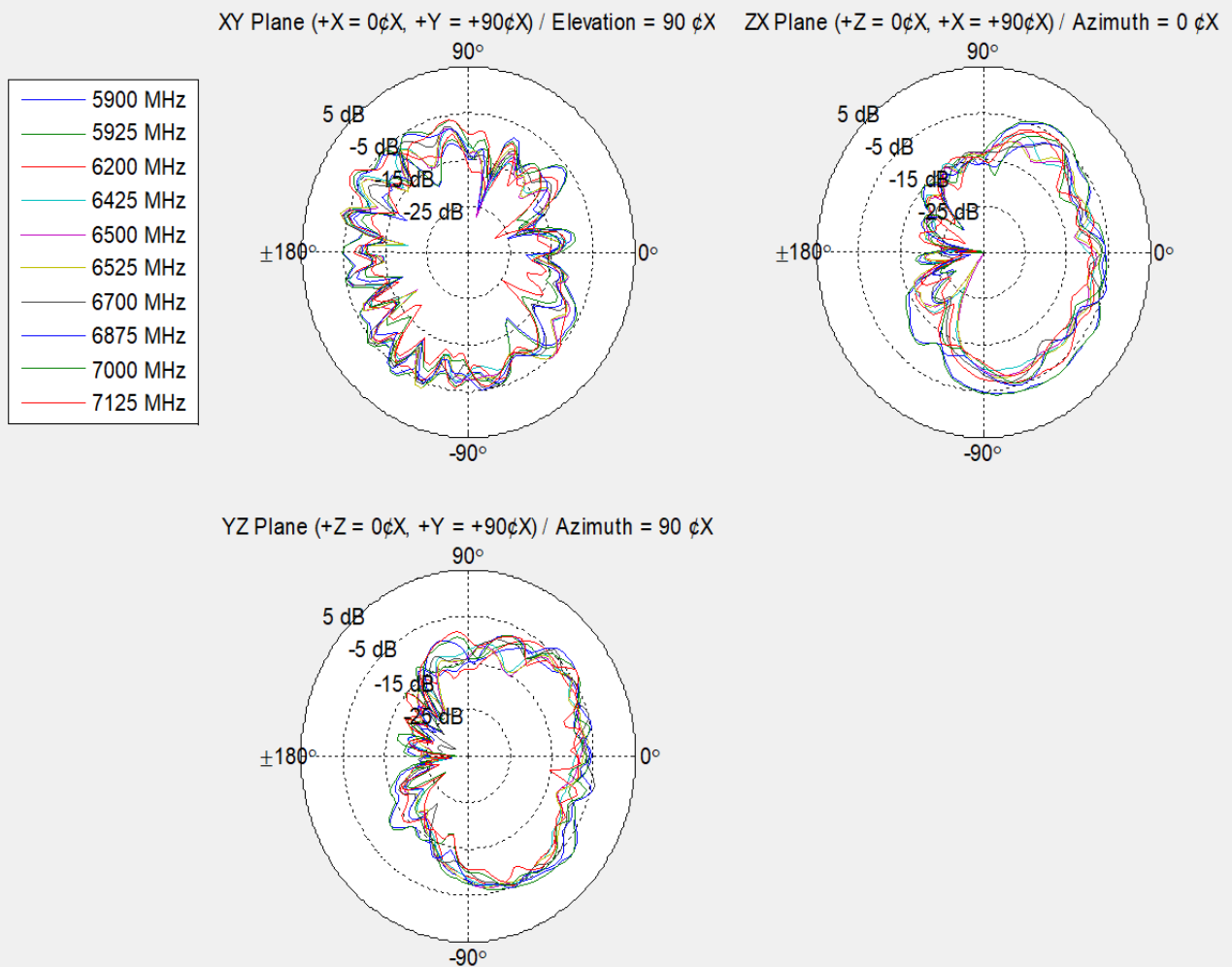
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



## Radiation Pattern

### Tri-band-Antenna 1

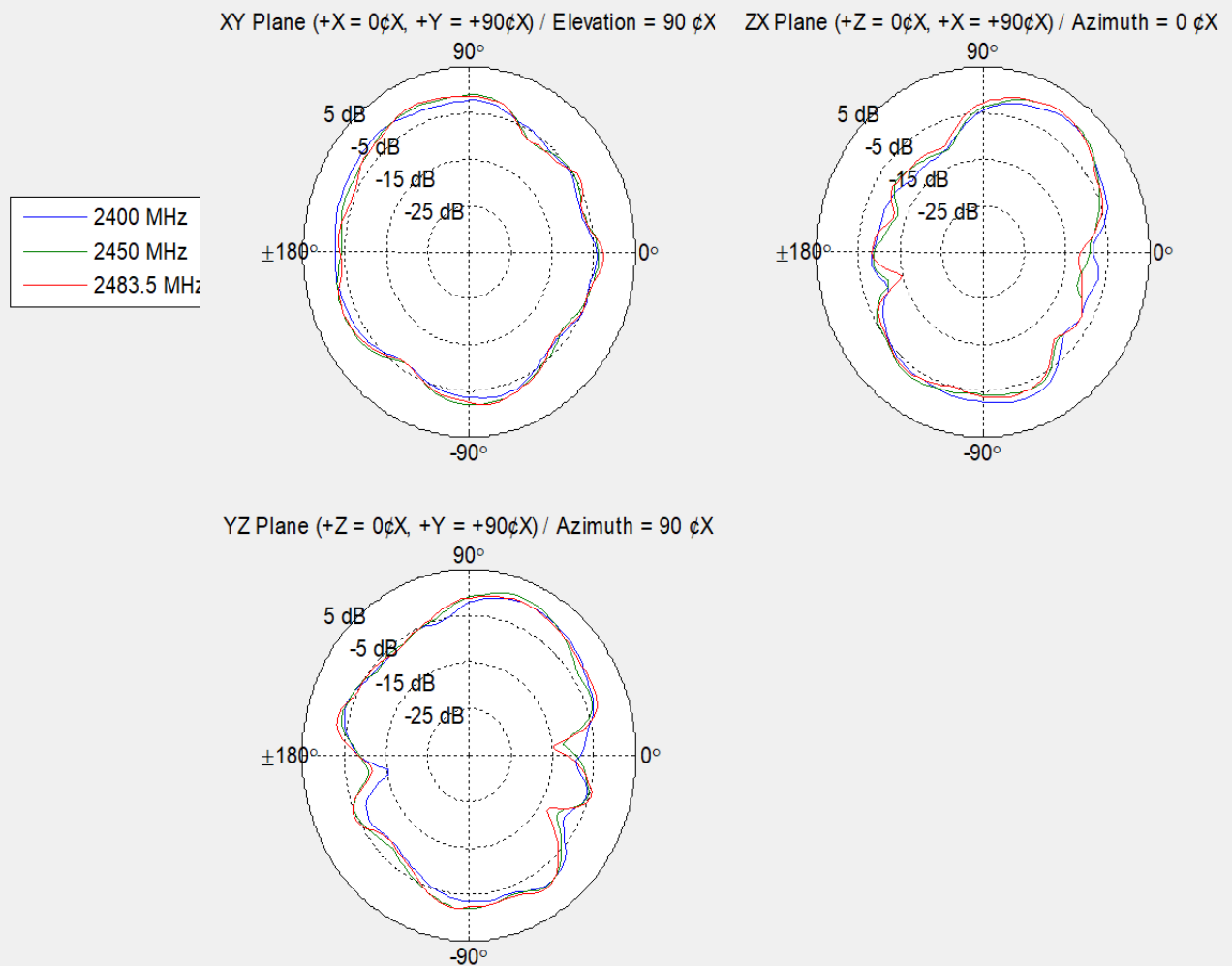
6G Band = 5900 - 8500 MHz



## Radiation Pattern

Tri-band-Antenna 2

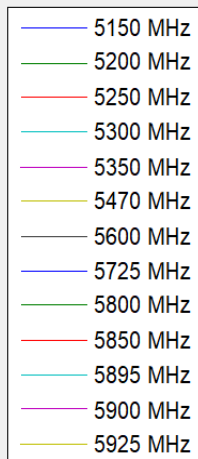
2G Band = 2400 - 2500 MHz % 2G BAND



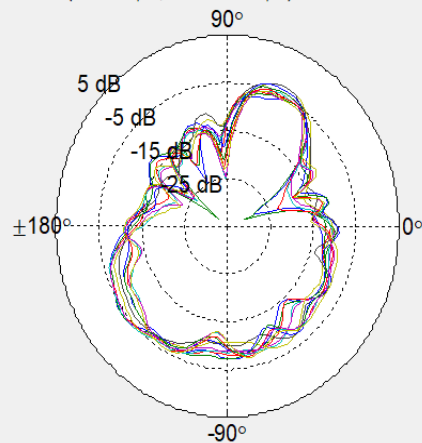
## Radiation Pattern

Tri-band-Antenna 2

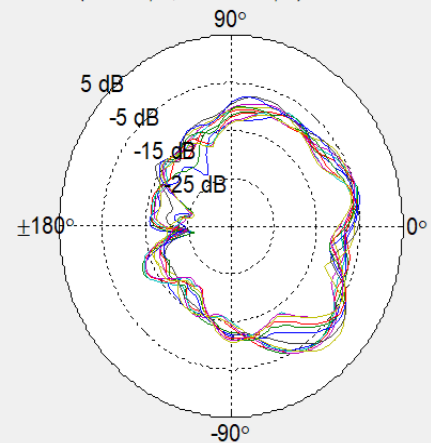
5G Band = 4900 - 5975 MHz



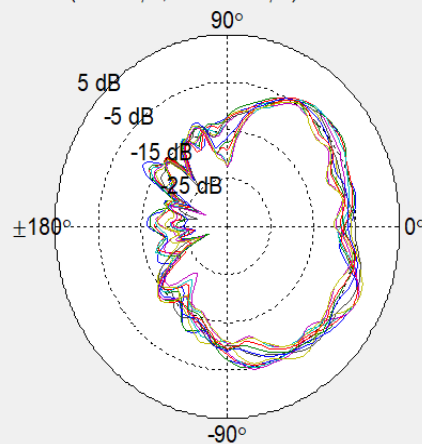
XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X



ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X





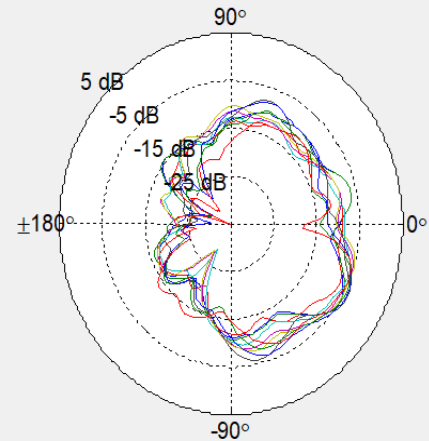
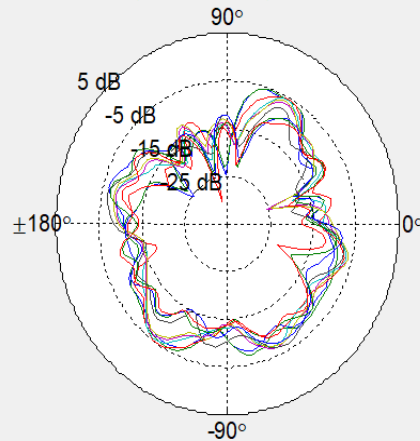
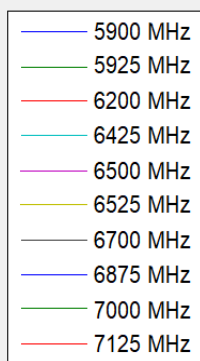
## Radiation Pattern

Tri-band-Antenna 2

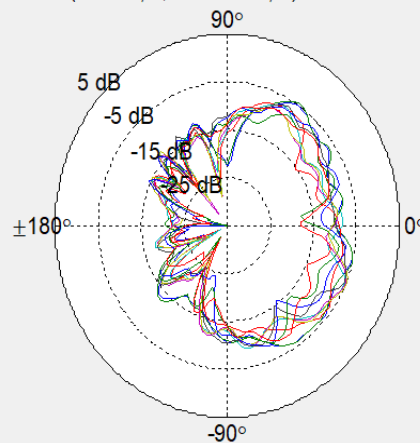
6G Band = 5900 - 8500 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



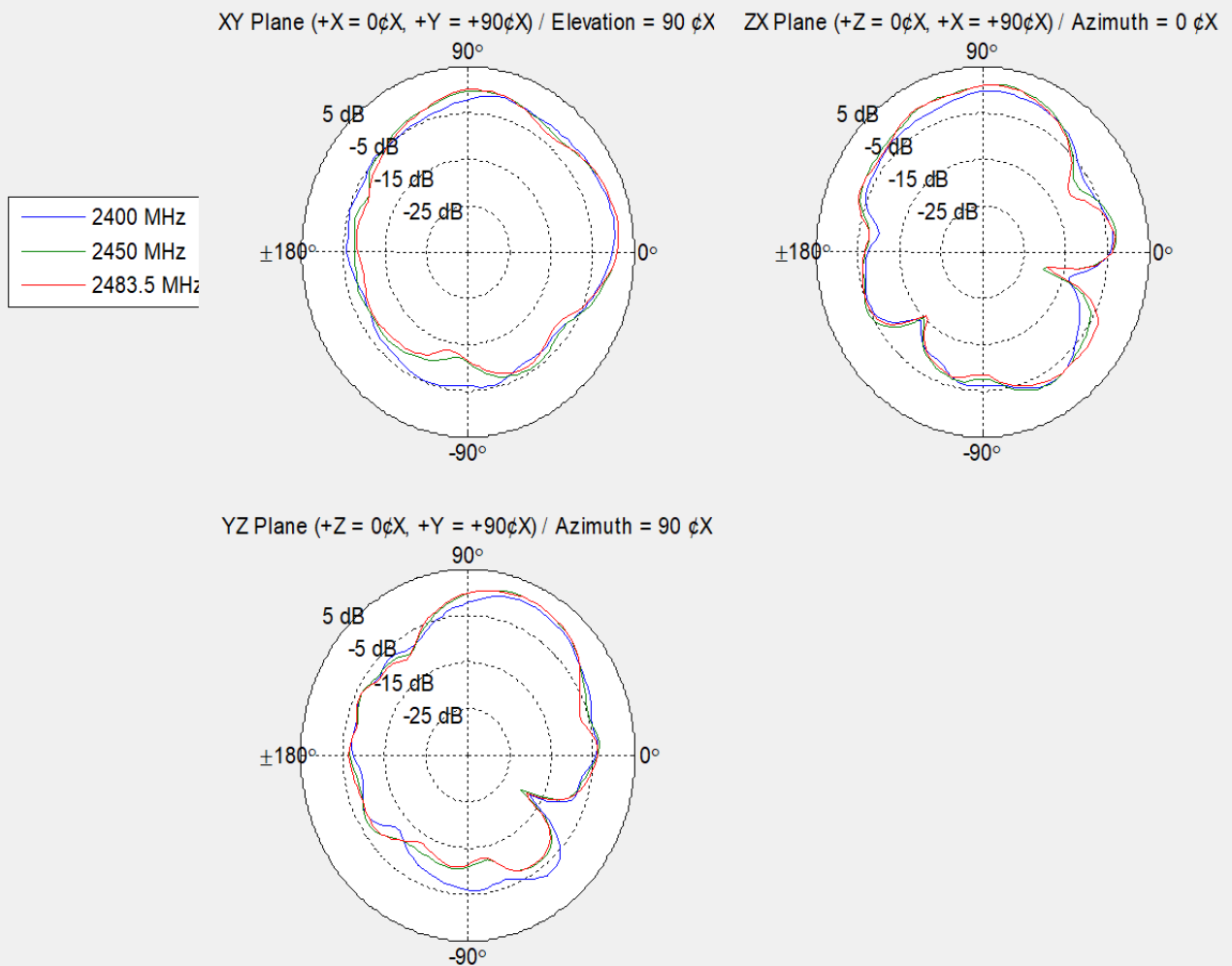
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



## Radiation Pattern

Tri-band-Antenna 3

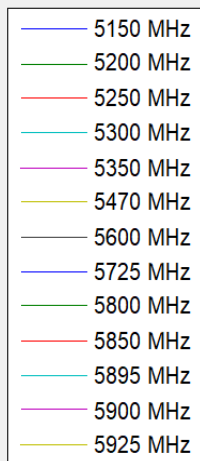
2G Band = 2400 - 2500 MHz % 2G BAND



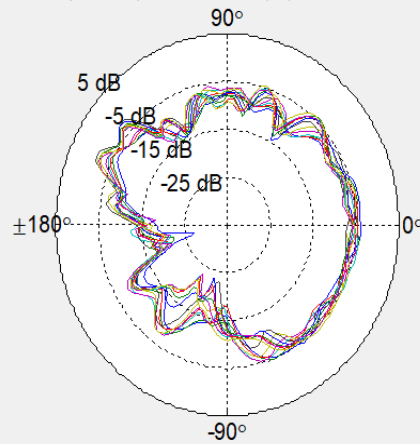
## Radiation Pattern

Tri-band-Antenna 3

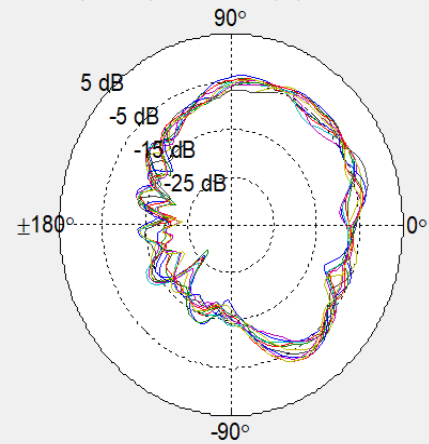
5G Band = 4900 - 5975 MHz



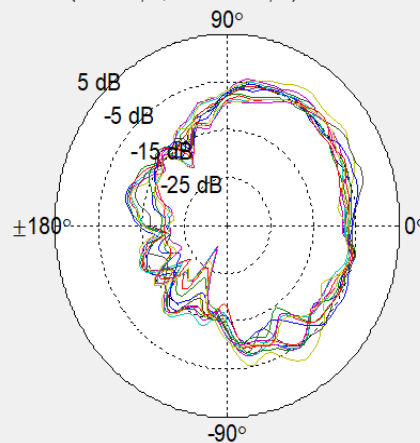
XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X



ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



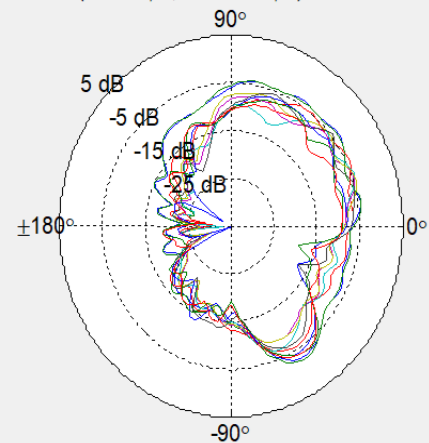
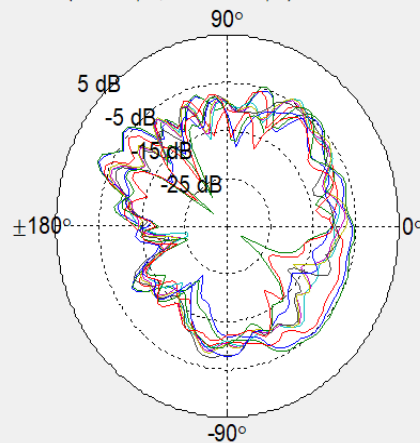
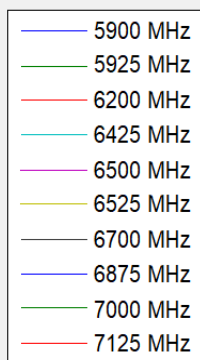
## Radiation Pattern

Tri-band-Antenna 3

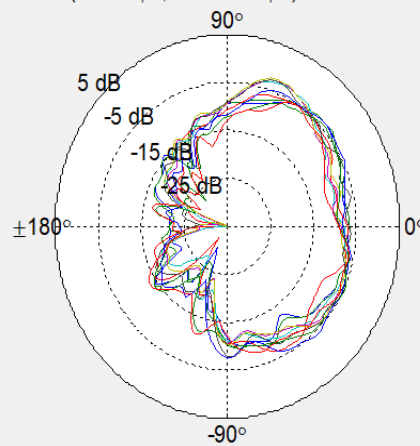
6G Band = 5900 - 8500 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



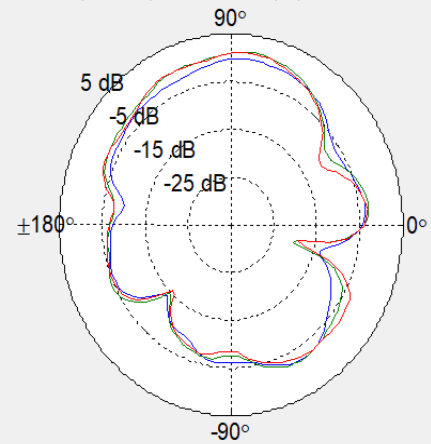
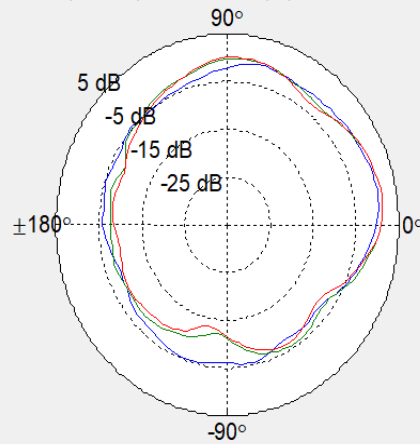
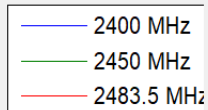
## Radiation Pattern

Tri-band-Antenna 4

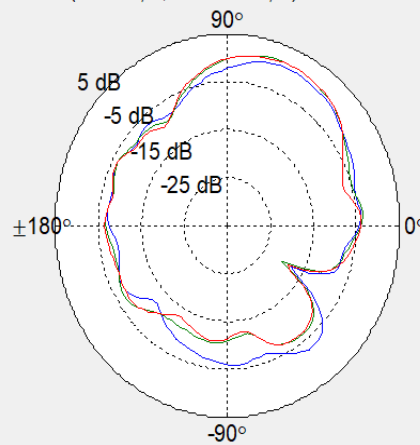
2G Band = 2400 - 2500 MHz % 2G BAND

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



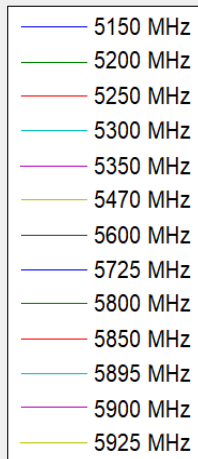
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



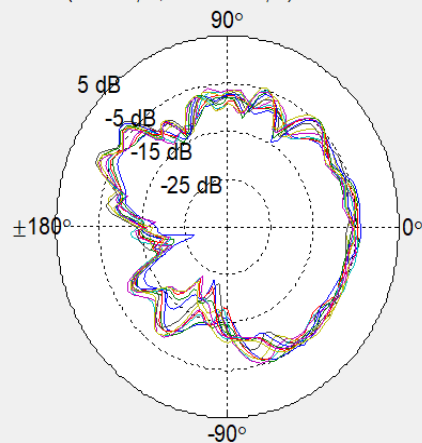
## Radiation Pattern

Tri-band-Antenna 4

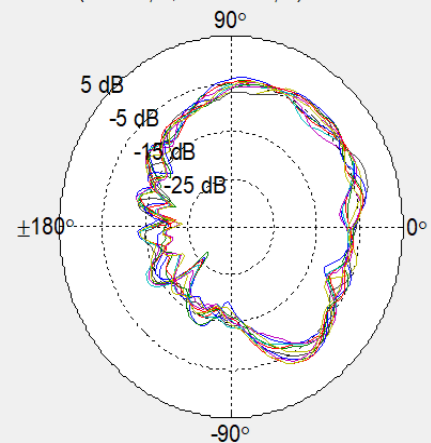
5G Band = 4900 - 5975 MHz



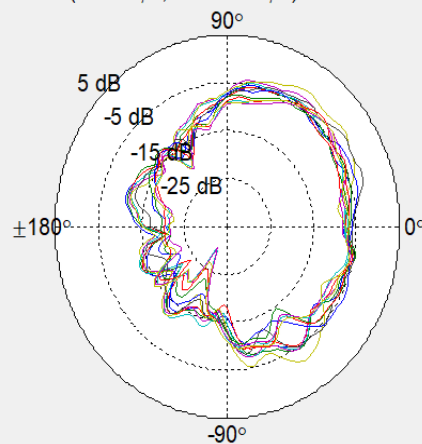
XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X



ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



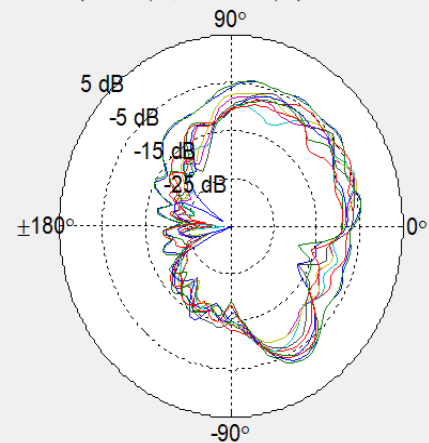
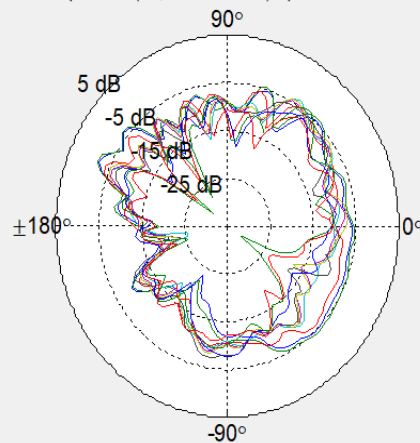
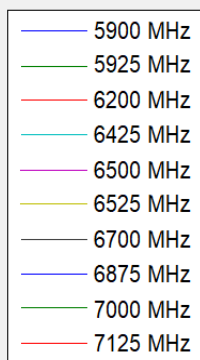
## Radiation Pattern

Tri-band-Antenna 4

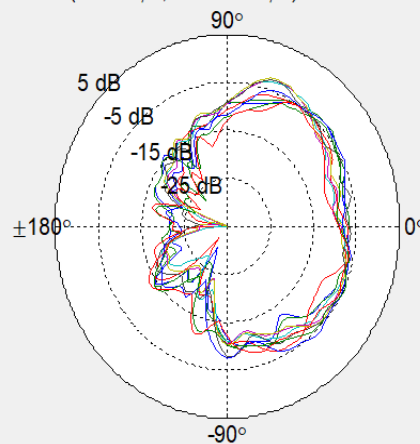
6G Band = 5900 - 8500 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



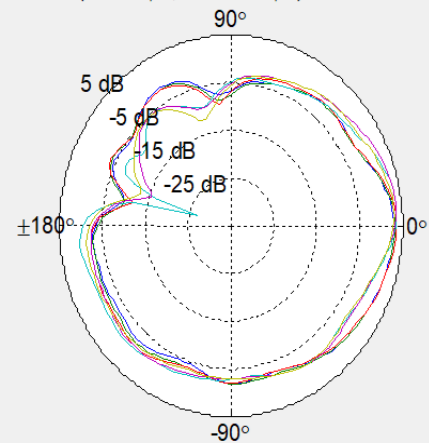
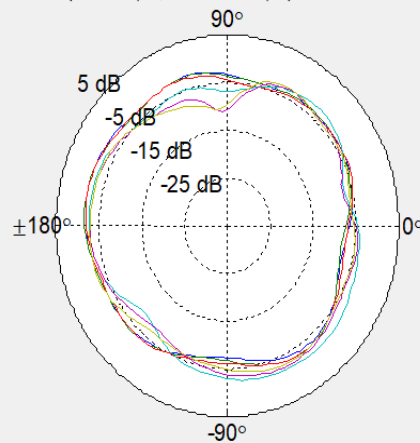
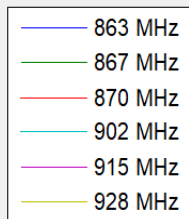
## Radiation Pattern

Sub 1G-Antenna 1

S1 Band = 850 - 1100 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X

