



15 dBi Gain, 8.2-12.5 GHz, WR90 Standard Gain Horn with SMA Female Port

Rev 3

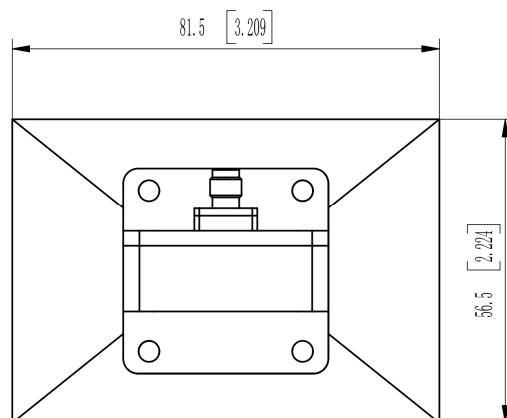
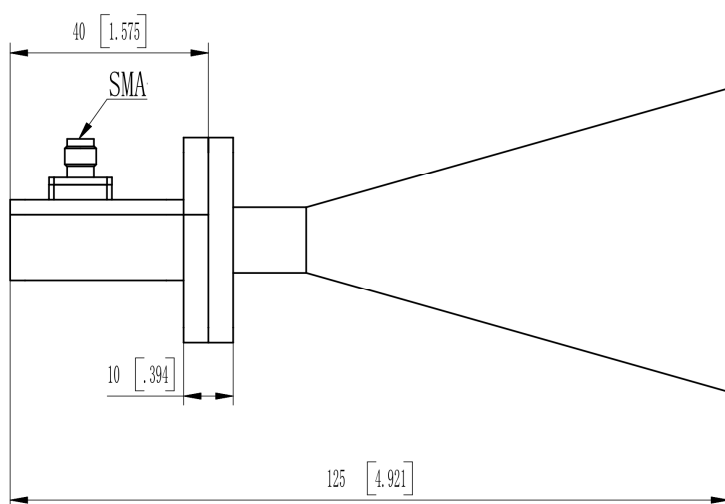
Electrical

| | |
|-----------------------|------------------------------------------------|
| Frequency Range | 8.2-12.5 GHz |
| Norminal Gain | 15 dBi |
| Polarization | Linear |
| VSWR | 1.3 max |
| 3dB Beamwidth | E-Plane: 23.0~34.1 deg, H-Plane: 21.7~34.8 deg |
| Operating Temperature | -40℃~+70℃ |

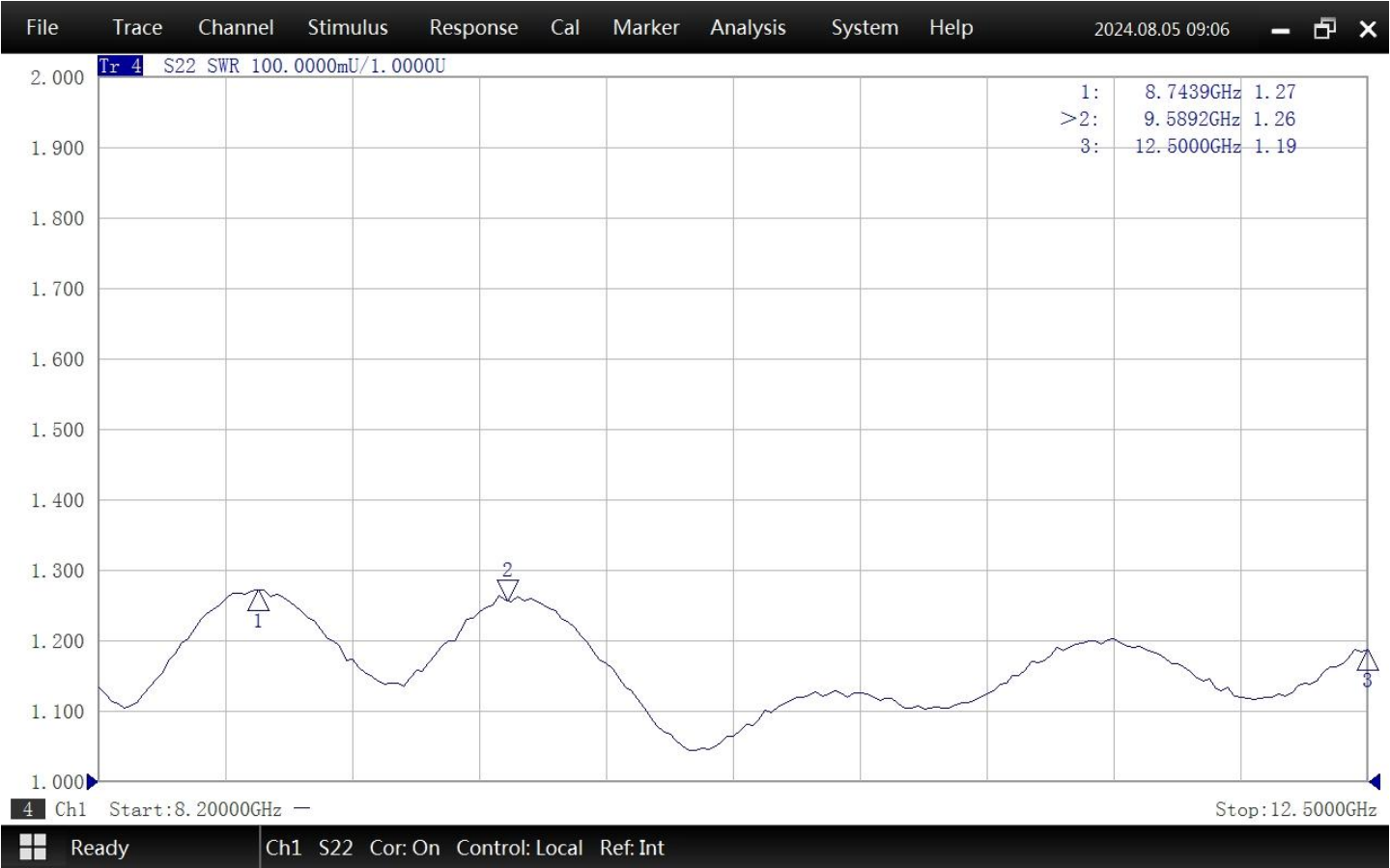
Mechanical

| | |
|--------------------------|----------------------------|
| Waveguide Size | WR90 |
| Flange Type | UBR100 Square Cover Flange |
| Body Material and Finish | Aluminum, Painted |
| RF Connector | SMA Female |
| Net Weight | 140g |

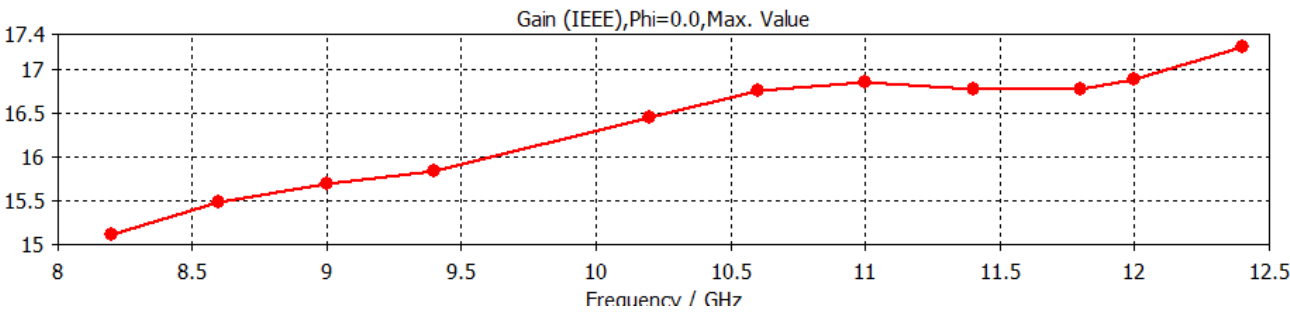
Dimensions mm[inch]



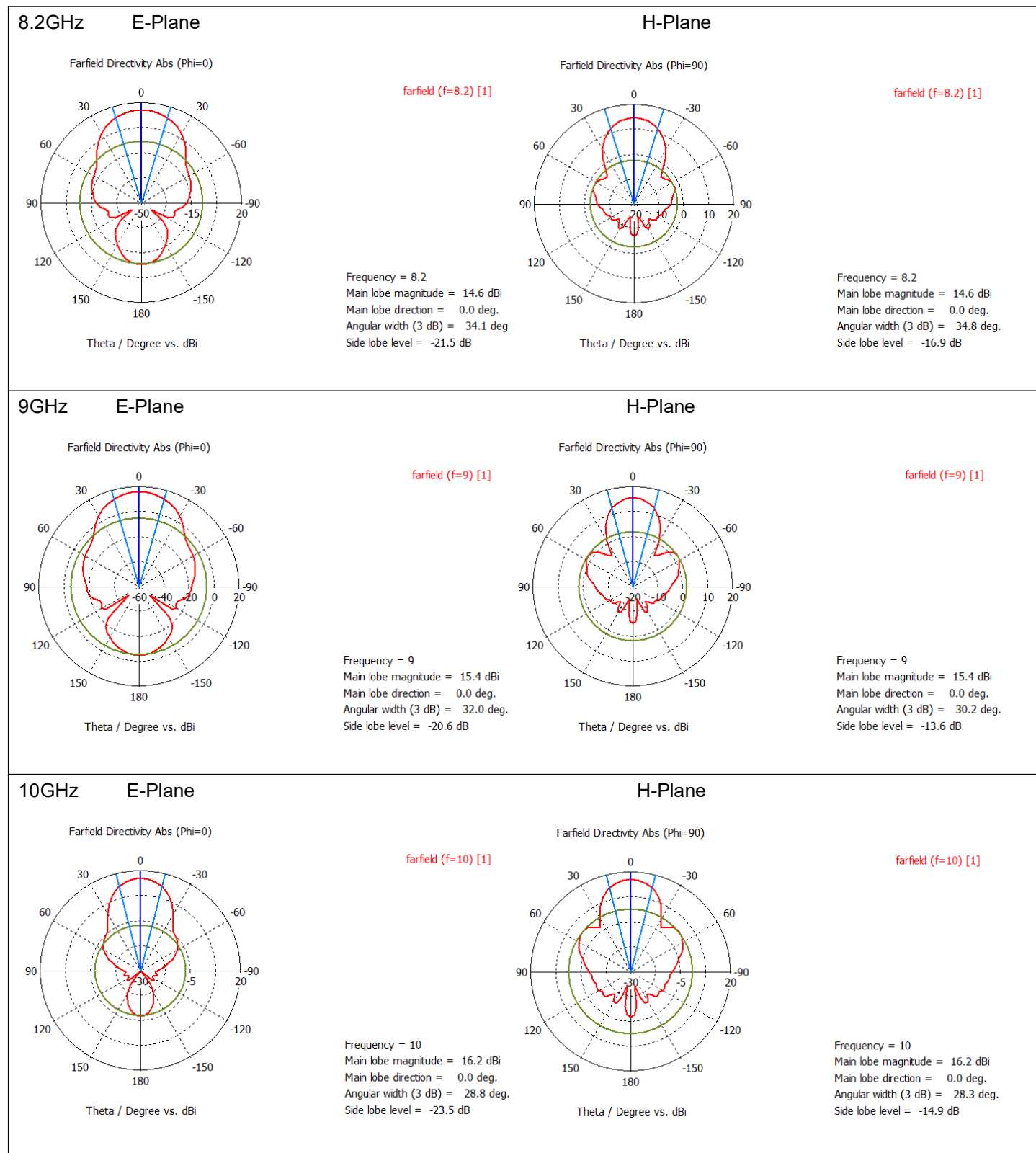
Typical VSWR



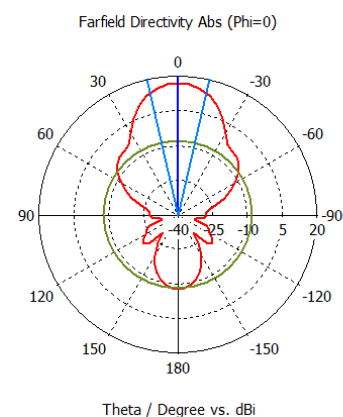
Gain



Simulated Antenna Patterns

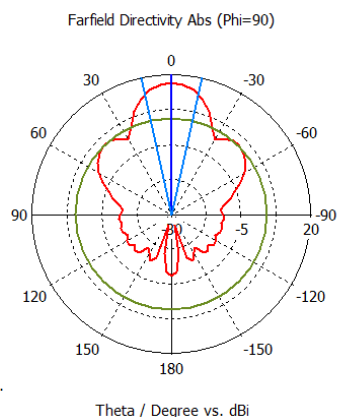


11GHz E-Plane



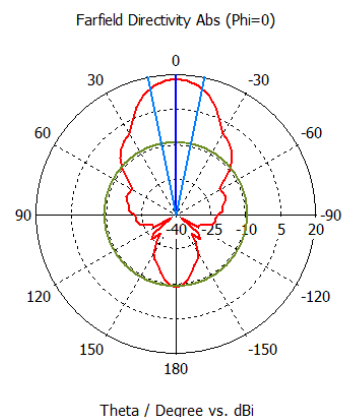
Frequency = 11
Main lobe magnitude = 16.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 25.9 deg.
Side lobe level = -24.9 dB

H-Plane



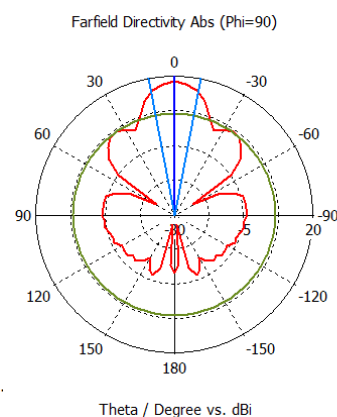
Frequency = 11
Main lobe magnitude = 16.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 25.0 deg.
Side lobe level = -12.5 dB

12.4GHz E-Plane



Frequency = 12.4
Main lobe magnitude = 17.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 23.0 deg.
Side lobe level = -26.9 dB

H-Plane



Frequency = 12.4
Main lobe magnitude = 17.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 21.7 deg.
Side lobe level = -11.3 dB