



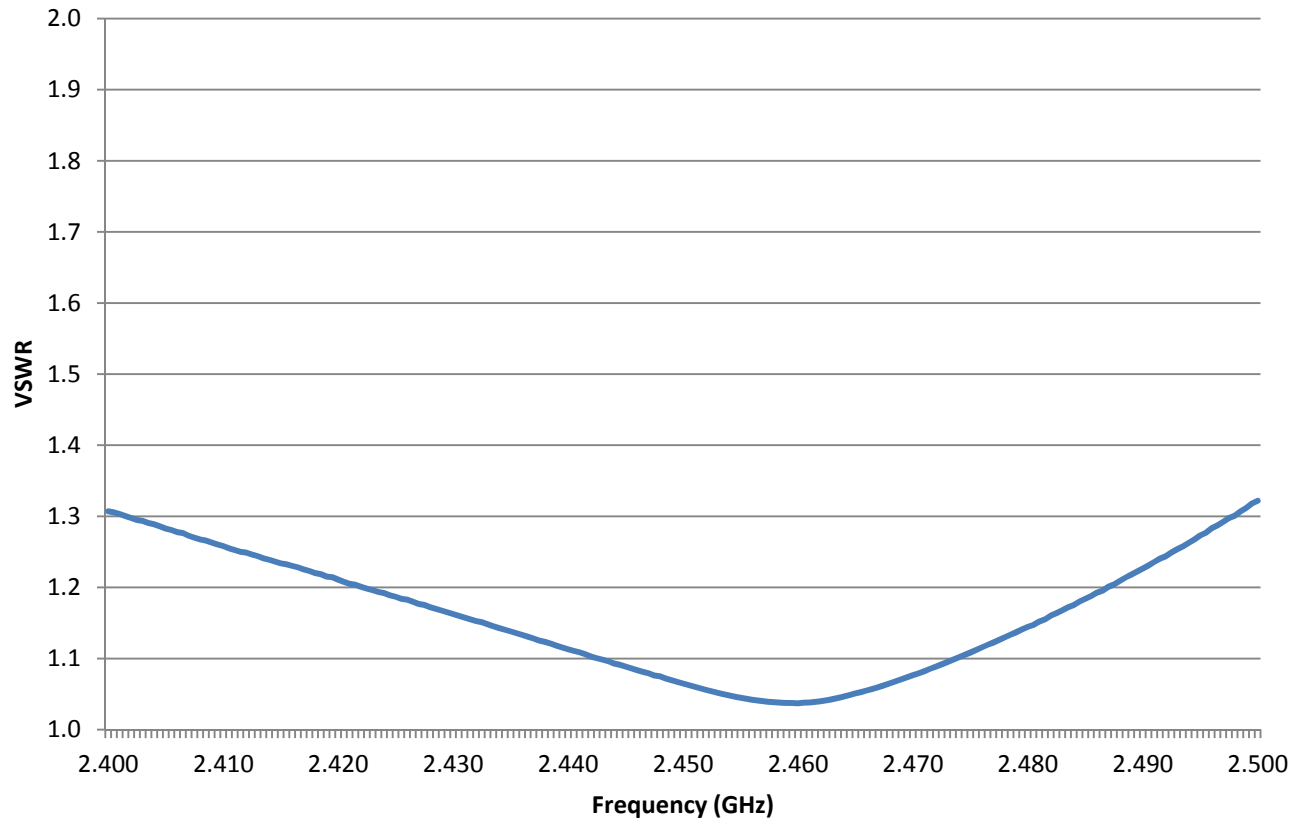
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ODC24M-5S
ML-2499-FHPA5-01R
2.4 - 2.5 GHz

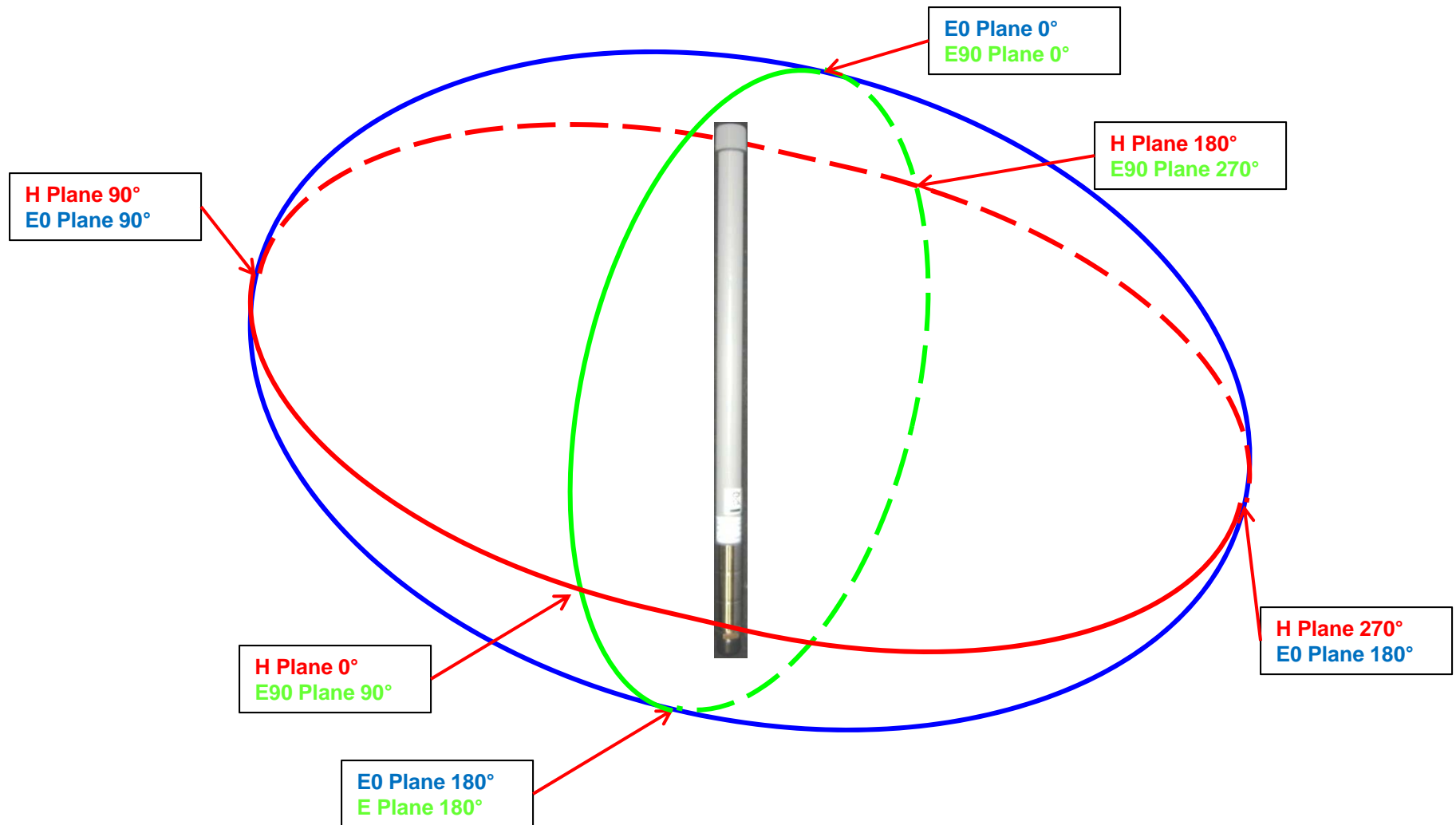
January 14, 2011

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VSWR

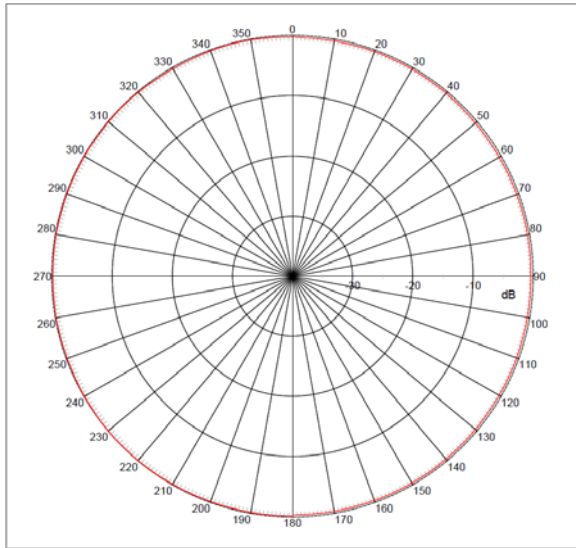


Pattern Orientation

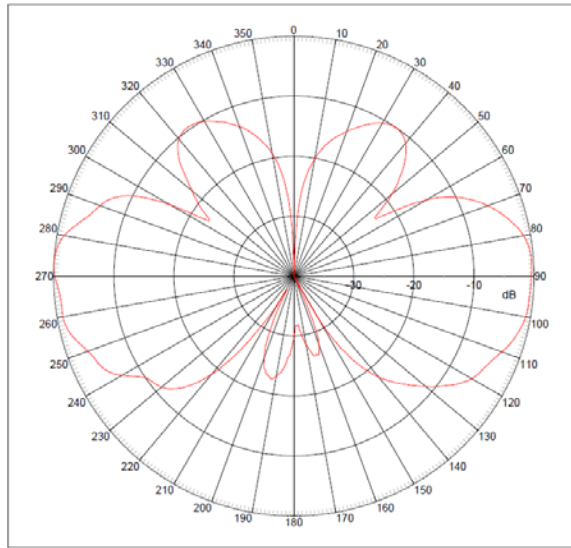


Radiation Patterns (2.4 GHz)

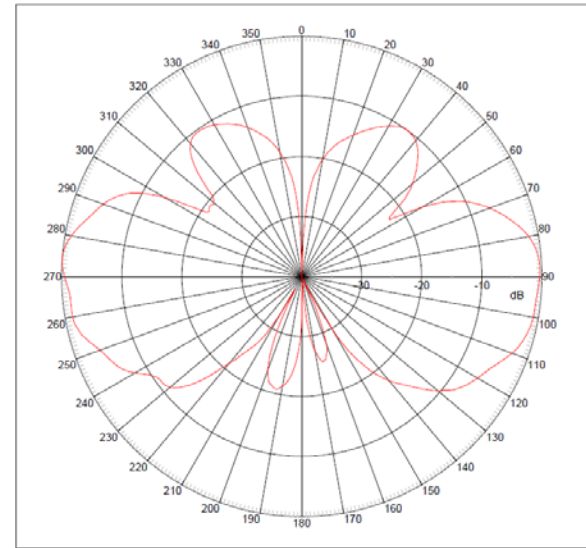
H-Plane
Gain on Horizon = 5.1 dBi
Peak Gain = 5.7 dBi



E0-Plane
Peak Gain Angle = 273°
Beam Width = 32°

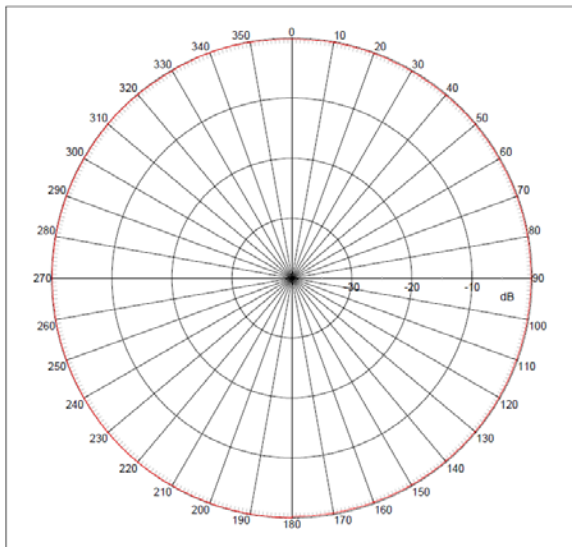


E90-Plane
Peak Gain Angle = 274°
Beam Width = 32°

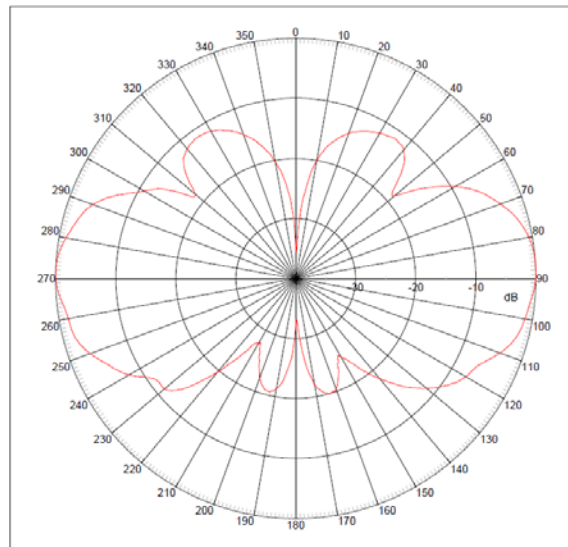


Radiation Patterns (2.45 GHz)

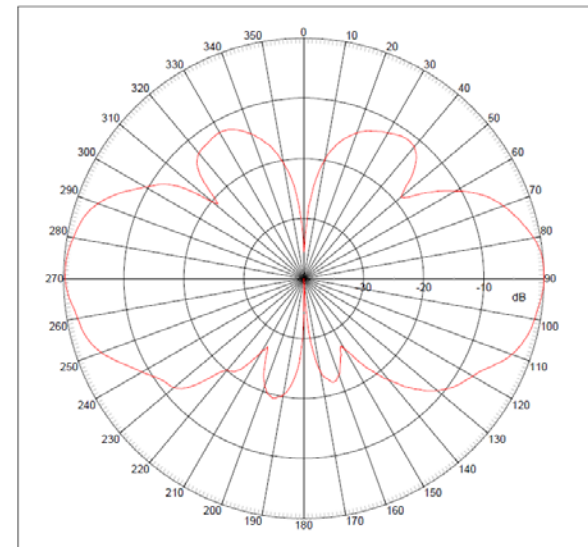
H-Plane
Gain on Horizon = 5.3 dBi
Peak Gain = 5.6 dBi



E0-Plane
Peak Gain Angle = 271°
Beam Width = 36°

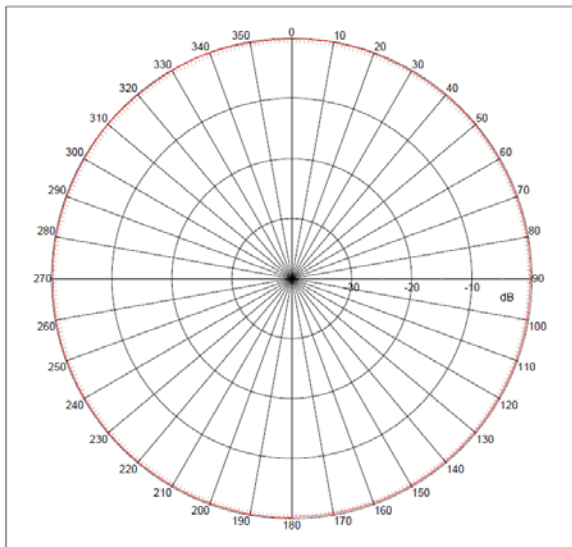


E90-Plane
Peak Gain Angle = 90°
Beam Width = 36°

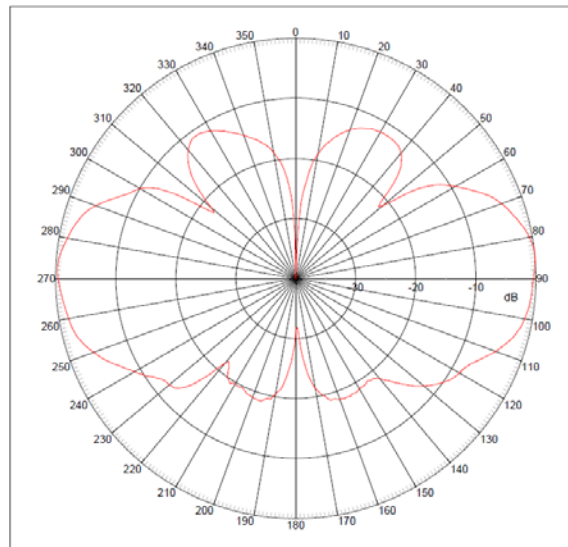


Radiation Patterns (2.5 GHz)

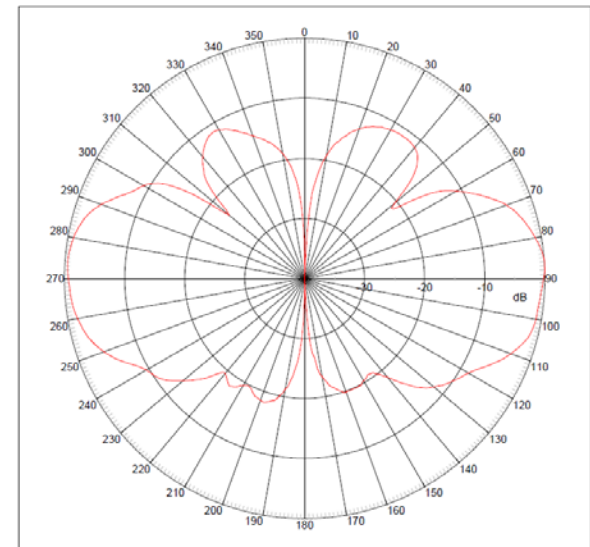
H-Plane
Gain on Horizon = 5.3 dBi
Peak Gain = 5.4 dBi



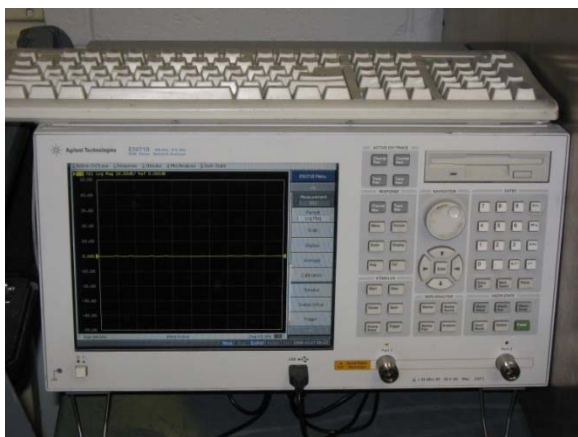
E0-Plane
Peak Gain Angle = 84°
Beam Width = 35°



E90-Plane
Peak Gain Angle = 86°
Beam Width = 36°



Test Equipment Summary (VSWR)

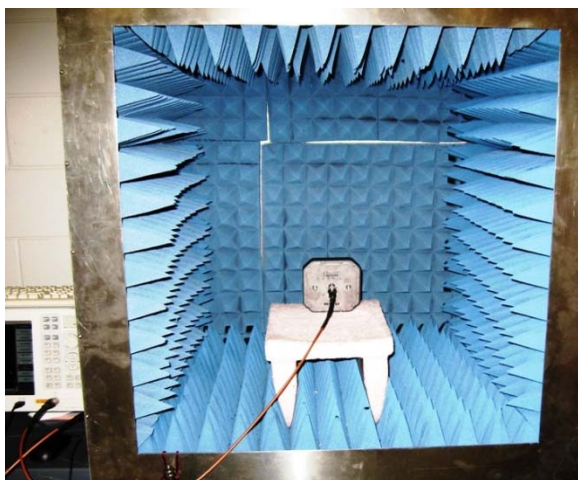


Analyzer

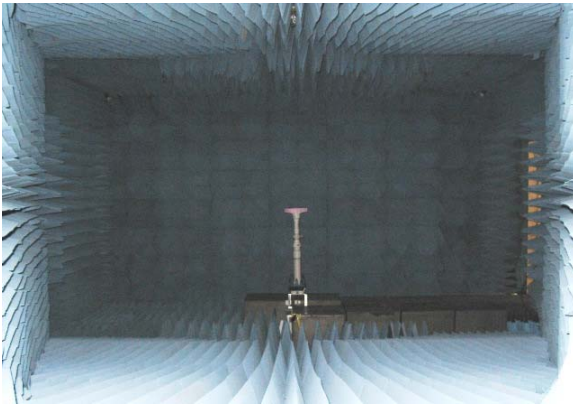
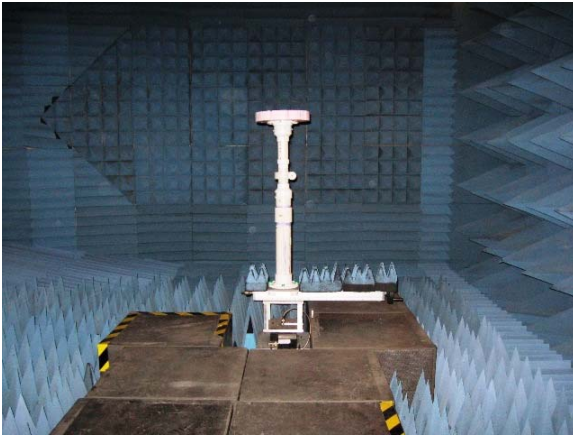
- Agilent E5071B network analyzer
- Maximum frequency range: 300 kHz – 8.5 GHz
- Calibration certified annually (system)
- Calibrated per OSL standard (test)

Testing Chamber

- 36"H x 36"W x 34"D
- Absorber material: Pyramid 2"W x 2"L x 5"H / division



Test Equipment Summary (Radiation Patterns)



Testing Chamber:

- Test chamber is a single axis, single source system comprising a network analyzer, positioner / controller and tapered anechoic chamber. The system is calibrated prior to each test. All components are calibrated annually as required.
- Dimensions:
 - 8.8 meters from face of source to DUT center of rotation
 - 72" center of height above floor