

Small Omni Directional Antenna

Model : TH246A



一. ELECTRONICAL:

- 1. ANTENNA TYPE 天線型式: Base Antenna**
- 2. FREQUENCY 頻率: 2.4~2.5GHz**
- 3. IMPEDANCE 阻抗: 50 Ohm**
- 4. POLARISATION 極: Vertical**
- 5. VSWR: 2.0:1**
- 6. MAX.POWER 最大功率: 50W**

二. MECHANICAL:

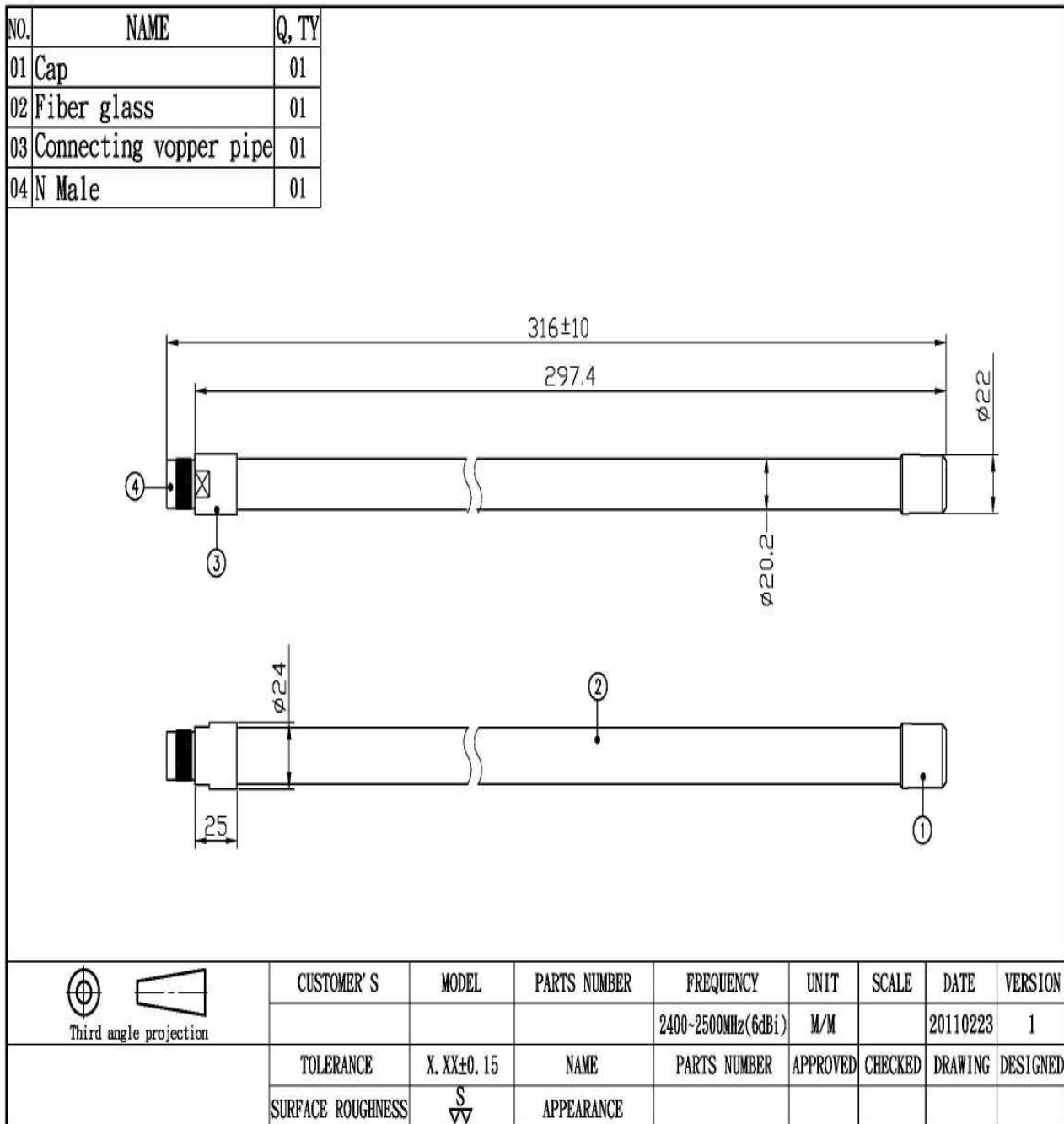
- 1. MATERIALS 材質: Fiberglass**
- 2. COLOR 顏色: White**

3. TOTAL HEIGHT 總長度: 316m/m ±10

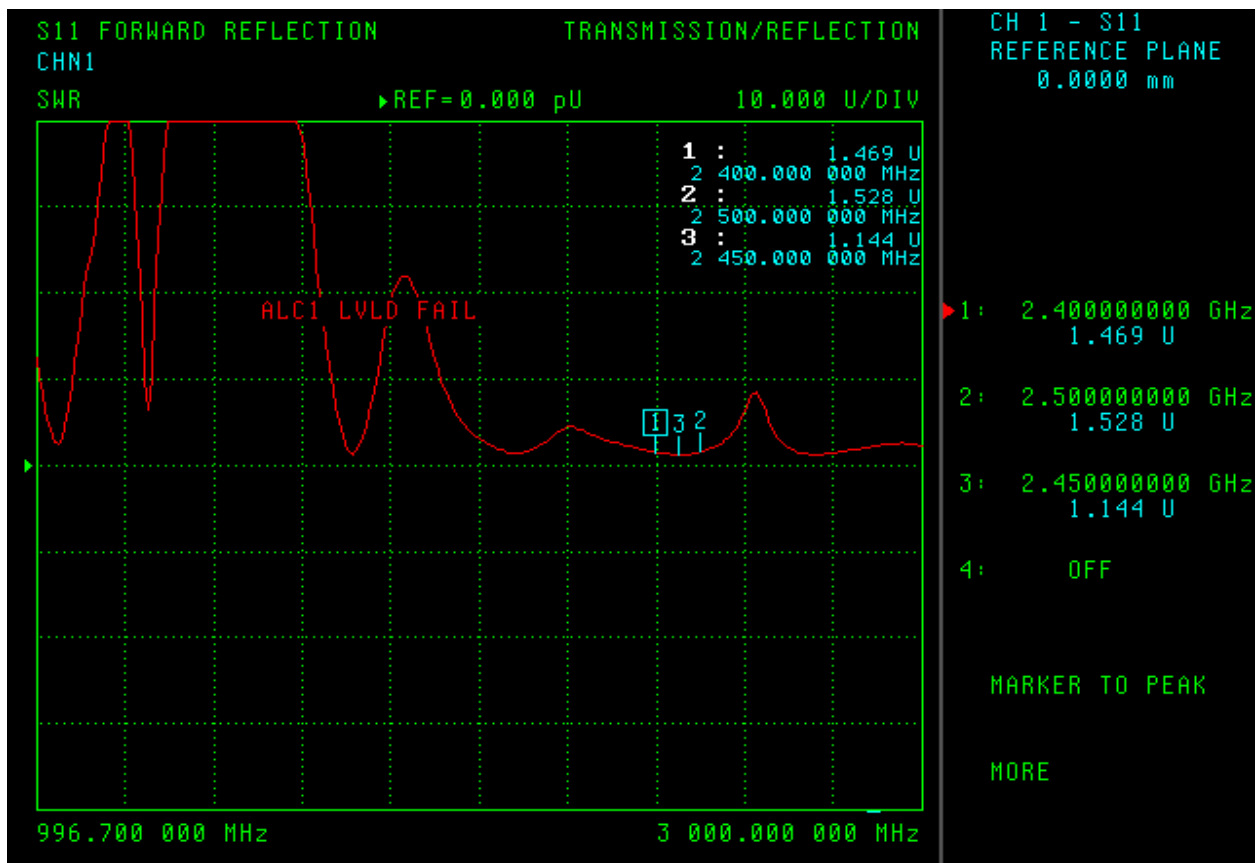
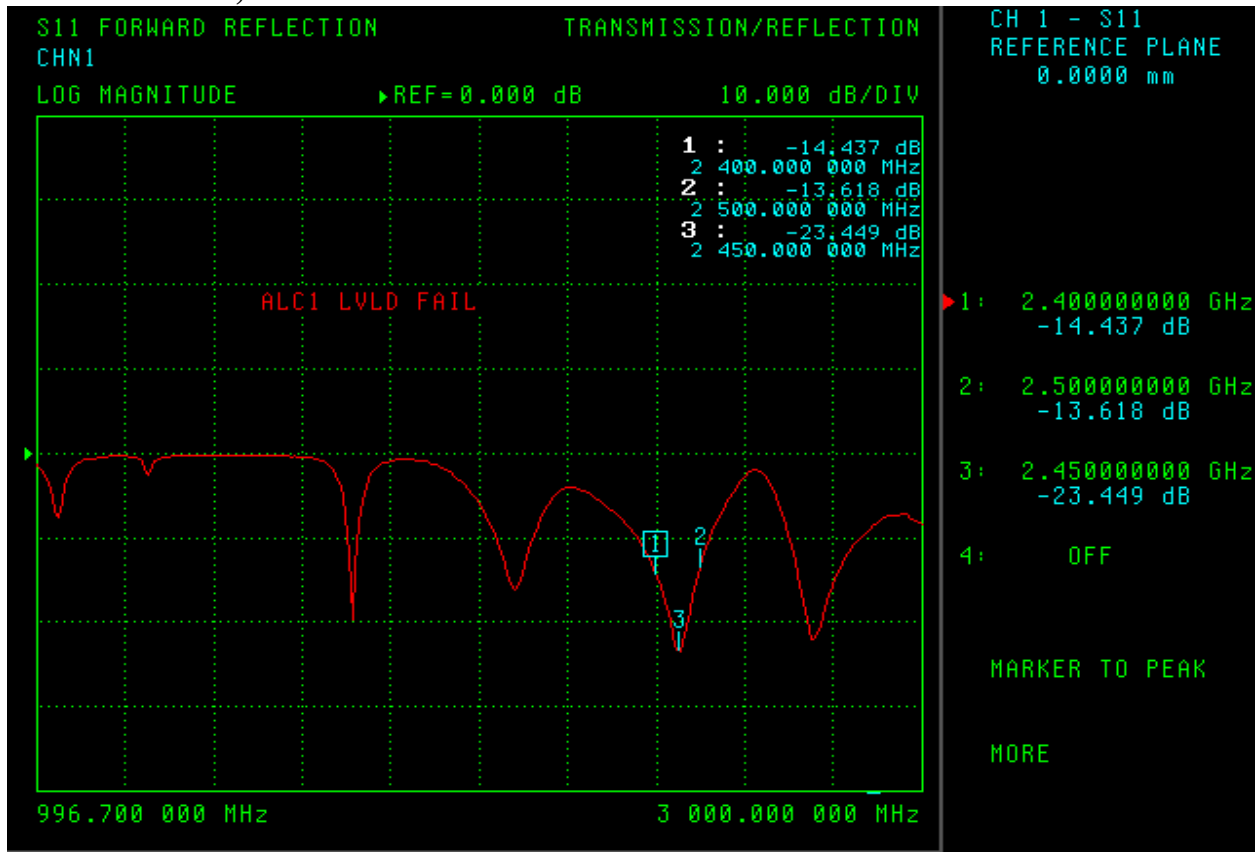
4. WEIGHT 重量:

5. CONNECTOR : N(M)

1. APPEARANCE:



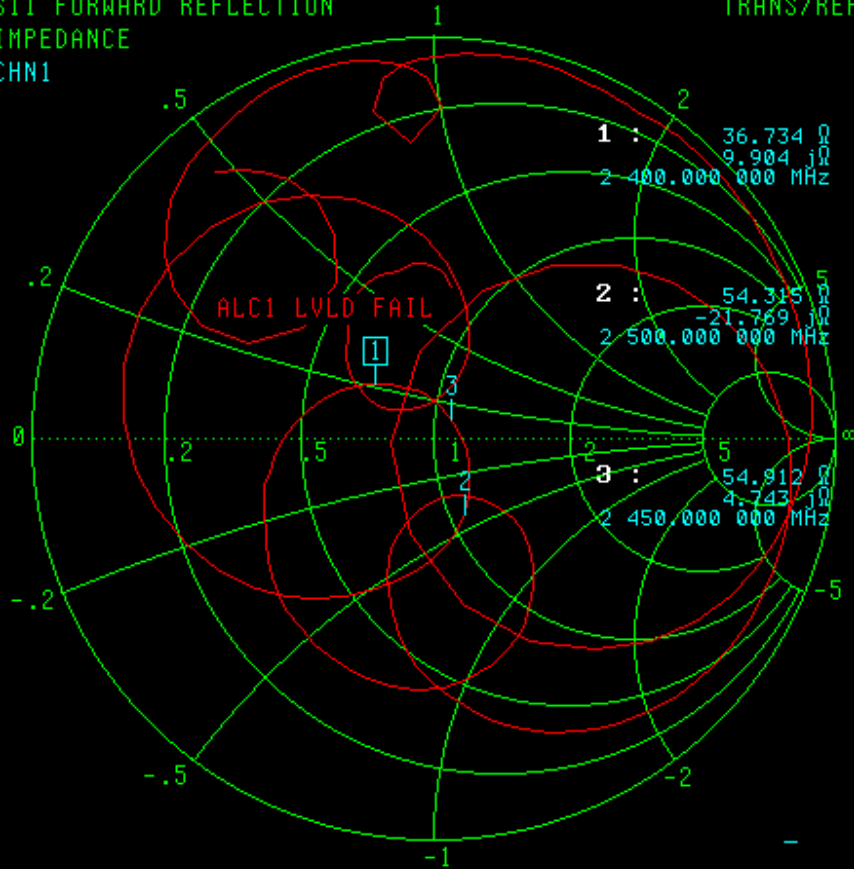
2. Return Loss, V.S.W.R. and Smith Chart



S11 FORWARD REFLECTION
IMPEDANCE
CHN1

TRANS/REFL

CH 1 - S11
REFERENCE PLANE
0.0000 mm



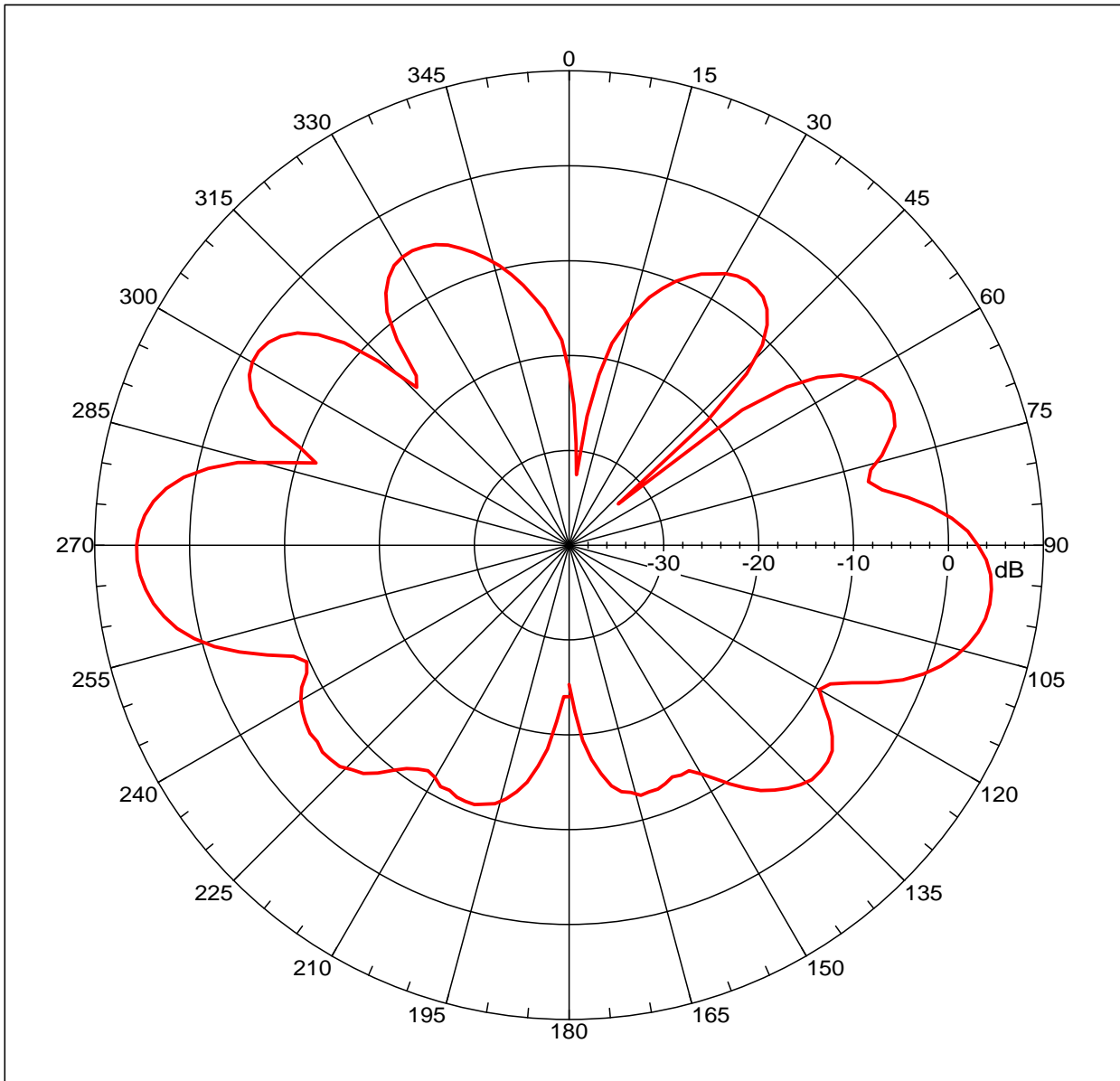
996.700 000 MHz - 3 000.000 000 MHz

- 1: 2.400000000 GHz
36.734 Ω
9.904 jΩ
- 2: 2.500000000 GHz
54.315 Ω
-21.769 jΩ
- 3: 2.450000000 GHz
54.912 Ω
4.743 jΩ
- 4: OFF

MARKER TO PEAK

MORE

Far-field amplitude of 20110217 TH246 E-PLANE.nsi



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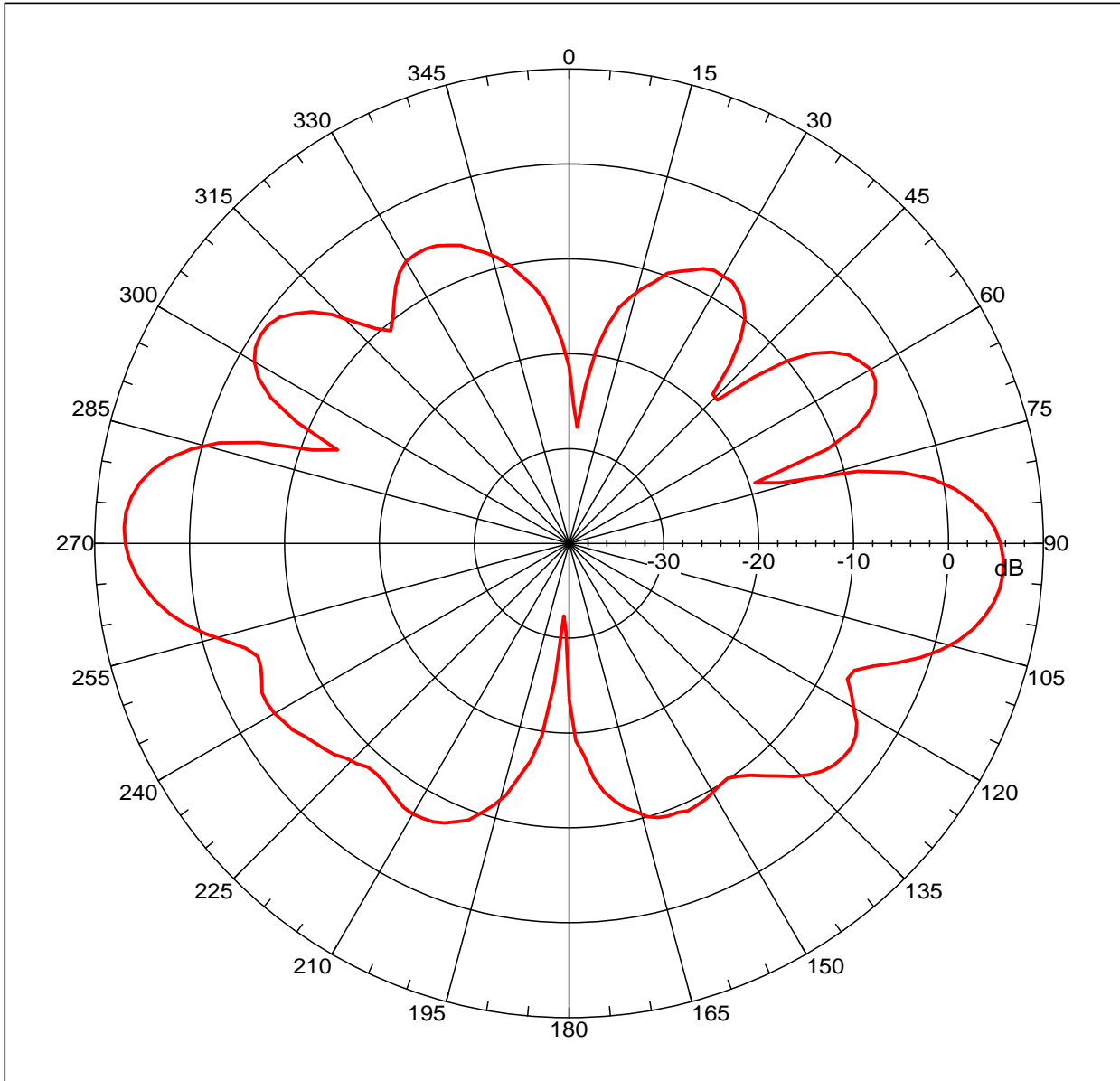
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 5.56461 dBi
Max far-field (global) = -43.44302 dB, Max far-field (plot) =
-43.44315 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -90.000 deg, Vpeak at: 0.000 deg
Plot centering: On

20110217 TH246 E-PLANE

NSI2000 V4.0.124, Filename:C:\nsi2000\T.Y.HUS\20110217 TH246
E-PLANE.nsi
Measurement date/time: 2/17/2011 4:15:52 PM, Filetype: NSI-97
Far-field Cut Analysis:
  Avg value: -5.264 dB
  -3. dB beam width: 19.87 deg
  -6. dB beam width: 26.81 deg
  -10. dB beam width: 33.06 deg
  Left Sidelobe: -11.82 dB at -125.698 deg
  Right Sidelobe: -7.03 dB at -57.318 deg
Far-field display setup
  Azimuth (deg)
    Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
    Start= -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000
deg
  Elevation (deg)
    Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 3
Beam  Frequency  Azimuth  Elevation  Pol
----  -
1      2.400 GHz  Azimuth  Elevation  Single-pol
    
```

Far-field amplitude of 20110217 TH246 E-PLANE.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 6.91786 dBi
 Max far-field (global) = -43.06029 dB, Max far-field (plot) = -43.06035 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -88.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

20110217 TH246 E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\T.Y.HUS\20110217 TH246 E-PLANE.nsi
 Measurement date/time: 2/17/2011 4:15:52 PM, Filetype: NSI-97

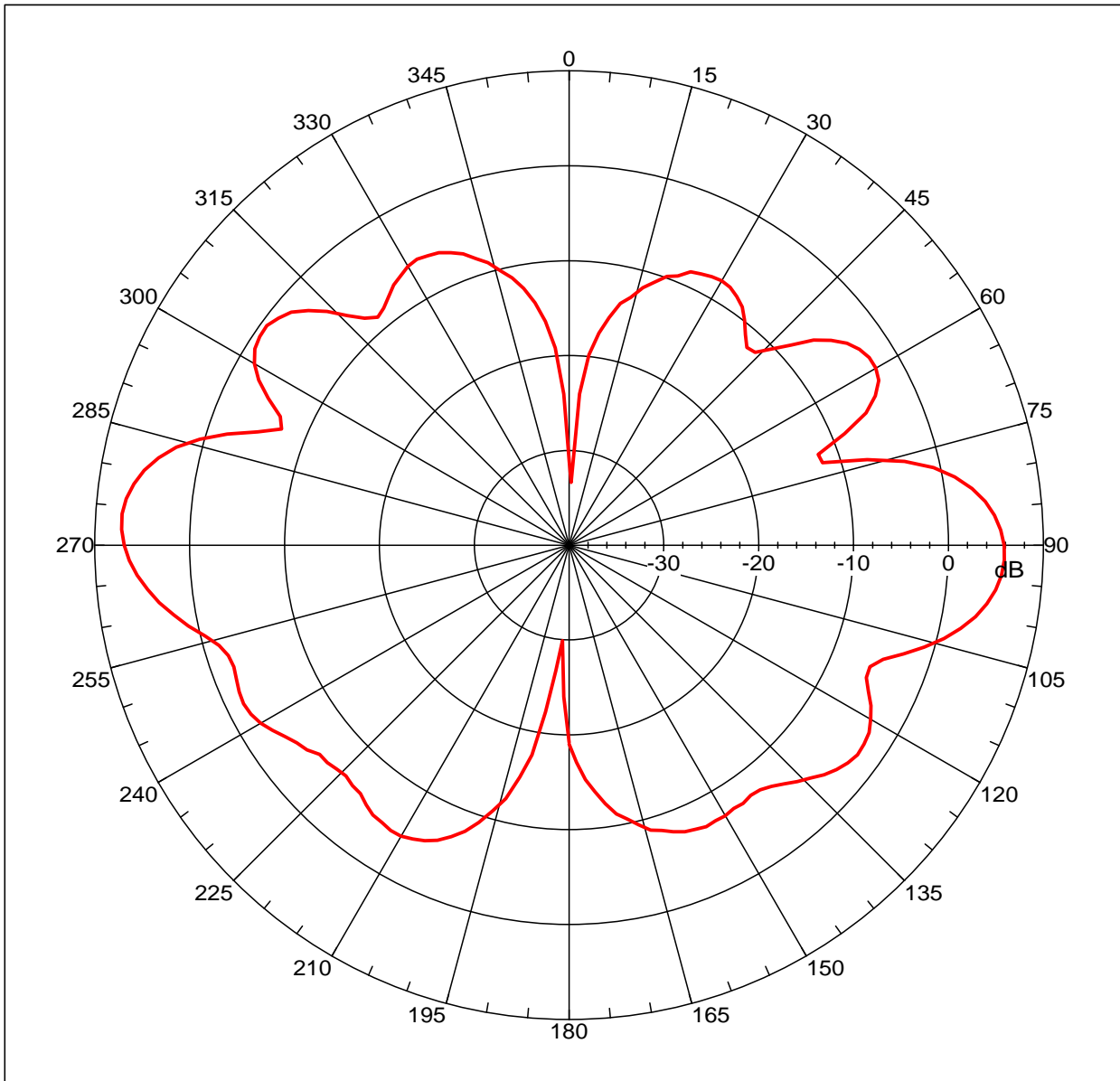
Far-field Cut Analysis:
 Avg value: -4.346 dB
 -3. dB beam width: 19.08 deg
 -6. dB beam width: 26.58 deg
 -10. dB beam width: 33.60 deg
 Left Sidelobe: -10.92 dB at -117.654 deg
 Right Sidelobe: -7.69 dB at -55.307 deg

Far-field display setup
 Azimuth (deg)
 Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
 Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
 Elevation (deg)
 Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 3

Beam	Frequency	Azimuth	Elevation	Pol
2	2.450 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20110217 TH246 E-PLANE.nsi



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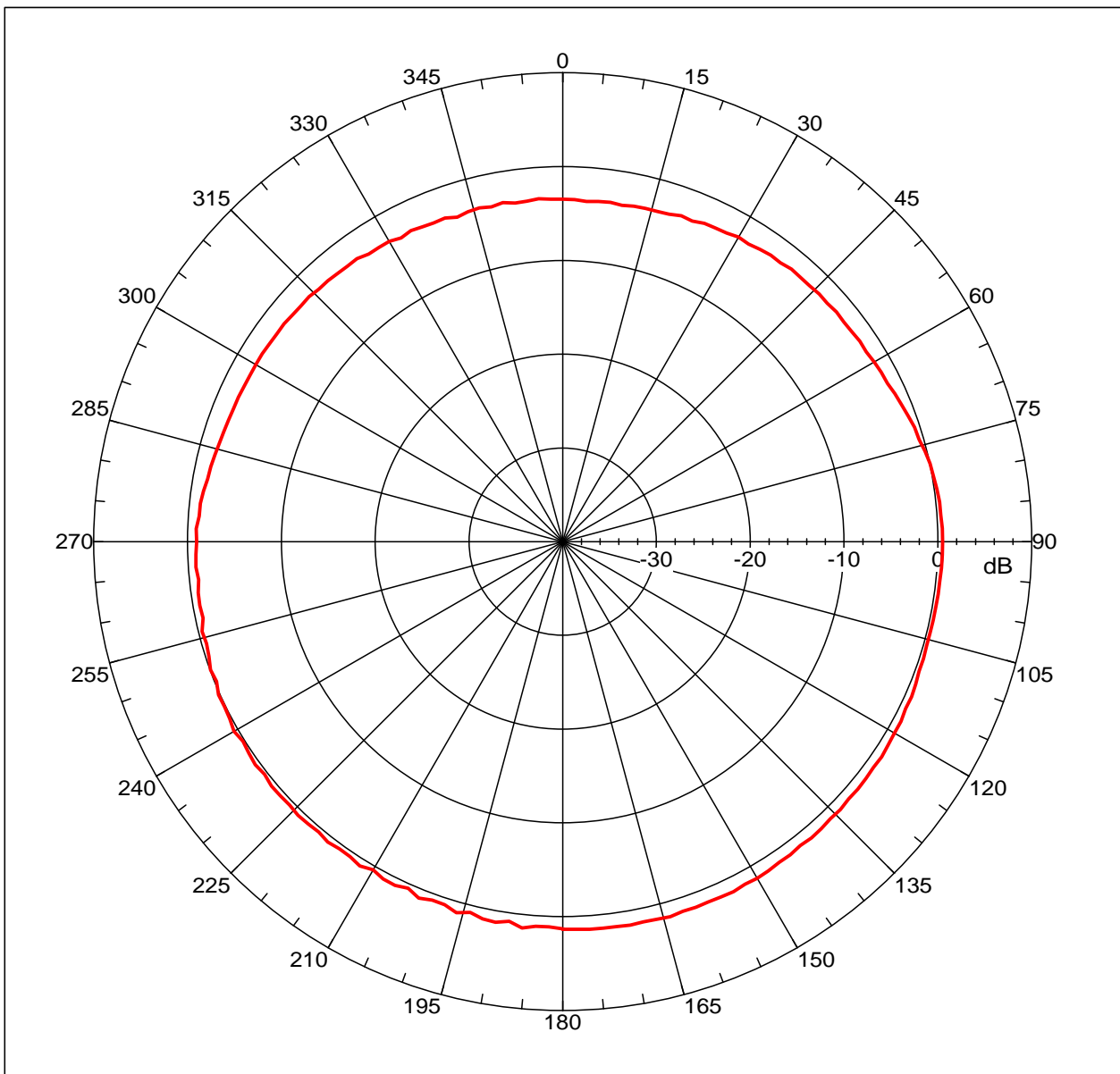
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 7.21162 dBi
Max far-field (global) = -42.92437 dB, Max far-field (plot) =
-42.9245 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -86.000 deg, Vpeak at: 0.000 deg
Plot centering: On

20110217 TH246 E-PLANE

NSI2000 V4.0.124, Filename:C:\nsi2000\T.Y.HUS\20110217 TH246
E-PLANE.nsi
Measurement date/time: 2/17/2011 4:15:52 PM, Filetype: NSI-97
Far-field Cut Analysis:
  Avg value: -3.612 dB
  -3. dB beam width: 18.95 deg
  -6. dB beam width: 27.18 deg
  -10. dB beam width: 49.64 deg
  Left Sidelobe: -11.75 dB at -147.821 deg
  Right Sidelobe: -7.85 dB at -53.296 deg
Far-field display setup
  Azimuth (deg)
    Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
    Start= -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000
deg
  Elevation (deg)
    Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 3
Beam  Frequency  Azimuth  Elevation  Pol
----  -
3      2.500 GHz  Azimuth  Elevation  Single-pol
    
```

Far-field amplitude of 20110217 TH246 H-PLANE01.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 1.62142 dBi
 Max far-field (global) = -47.38621 dB, Max far-field (plot) = -47.38636 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 163.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

20110217 TH246 H-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\T.Y.HUS\20110217 TH246 H-PLANE01.nsi

Measurement date/time: 2/17/2011 4:20:21 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -0.618 dB
 -3. dB beam width: Not Found
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: -4.20 dB at -41.229 deg
 Right Sidelobe: Not Found

Far-field display setup

Azimuth (deg)
 Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
 Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

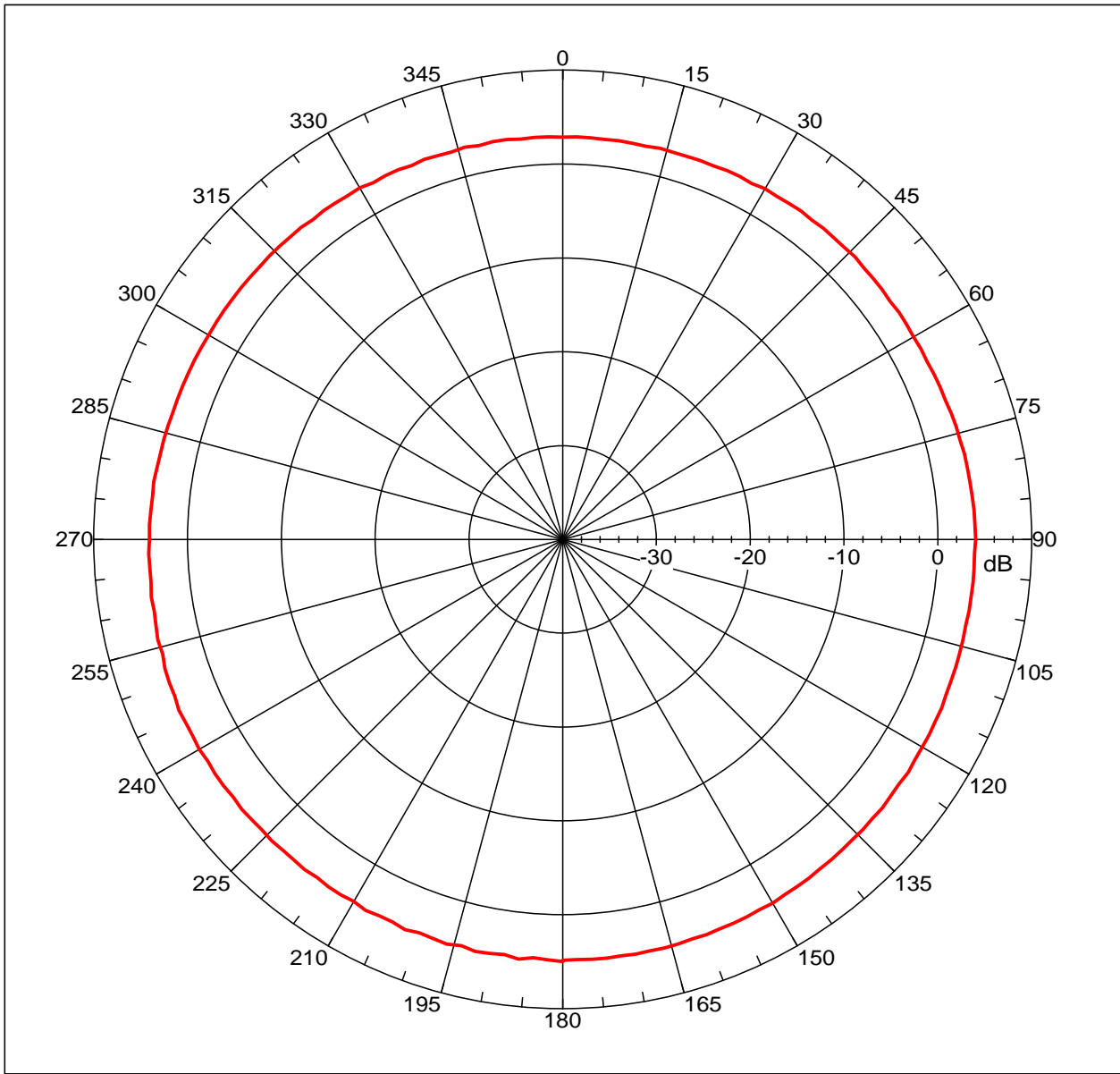
deg

Elevation (deg)
 Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 3

Beam	Frequency	Azimuth	Elevation	Pol
1	2.400 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20110217 TH246 H-PLANE01.nsi



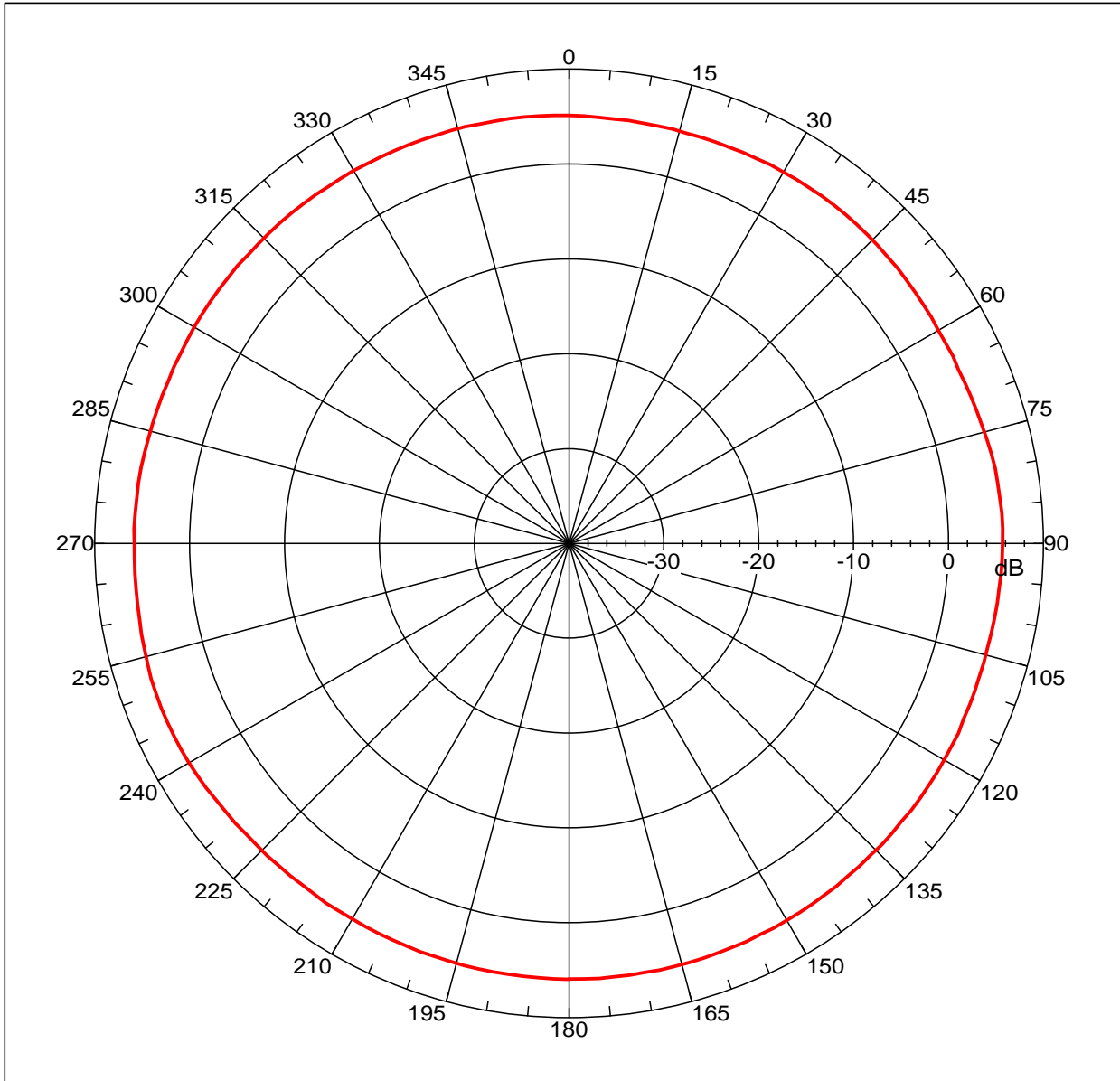
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 4.9769 dBi
 Max far-field (global) = -45.00125 dB, Max far-field (plot) = -45.0014 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -180.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

20110217 TH246 H-PLANE
 NSI2000 V4.0.124, Filename: C:\nsi2000\T.Y.HUS\20110217 TH246 H-PLANE01.nsi
 Measurement date/time: 2/17/2011 4:20:21 PM, Filetype: NSI-97
 Far-field Cut Analysis:
 Avg value: 3.944 dB
 -3. dB beam width: Not Found
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: Not Found
 Right Sidelobe: -0.96 dB at 91.508 deg
 Far-field display setup
 Azimuth (deg)
 Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
 Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
 Elevation (deg)
 Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 3

Beam	Frequency	Azimuth	Elevation	Pol
2	2.450 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20110217 TH246 H-PLANE01.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 6.34542 dBi
 Max far-field (global) = -43.79057 dB, Max far-field (plot) =
 -43.79058 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -114.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

20110217 TH246 H-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\T.Y.HUS\20110217 TH246
 H-PLANE01.nsi

Measurement date/time: 2/17/2011 4:20:21 PM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: 5.591 dB

-3. dB beam width: Not Found

-6. dB beam width: Not Found

-10. dB beam width: Not Found

Left Sidelobe: Not Found

Right Sidelobe: -0.41 dB at 153.855 deg

Far-field display setup

Azimuth (deg)

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181

Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000

deg

Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 3

Beam	Frequency	Azimuth	Elevation	Pol
3	2.500 GHz	Azimuth	Elevation	Single-pol