

Marine GSM Antenna

MODEL: GSM-200

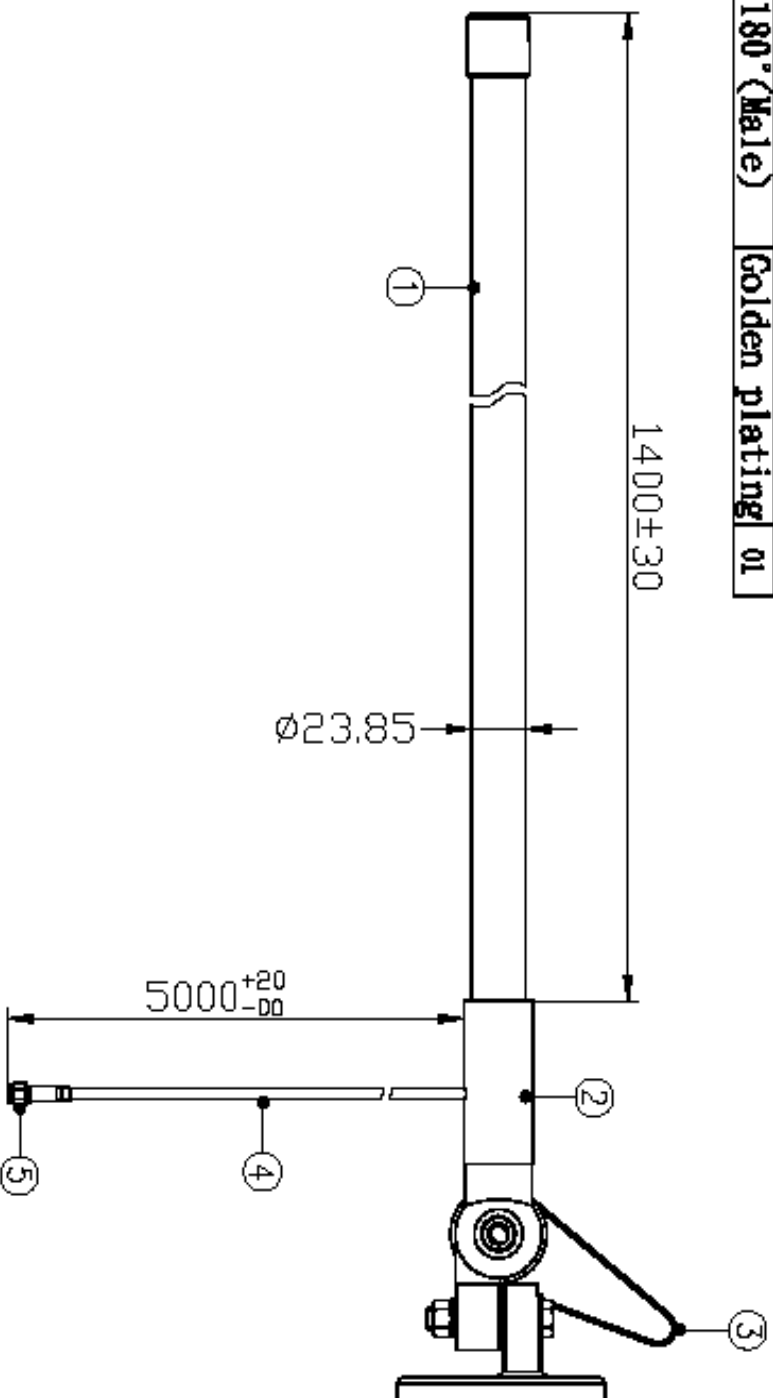



Specifications:

ANTENNA TYPE	fiberglass antenna
Gain:	5~7db
Fr :	824-960 / 1710-1990 / 1990-2107 Mhz
MAX.POWER	50W
V.S.W.R:	2:1
Impedence:	50 ohm
Connector:	CFD200 cable-5M- SMA/BNC/TNC/FME-----
Dimension:	23.85mm(Dia.) * 1400mm (L)
Weight:	1kg (With 5M Cable & FB2 Base mounting)
MATERIALS	Fiber
COLOR	White

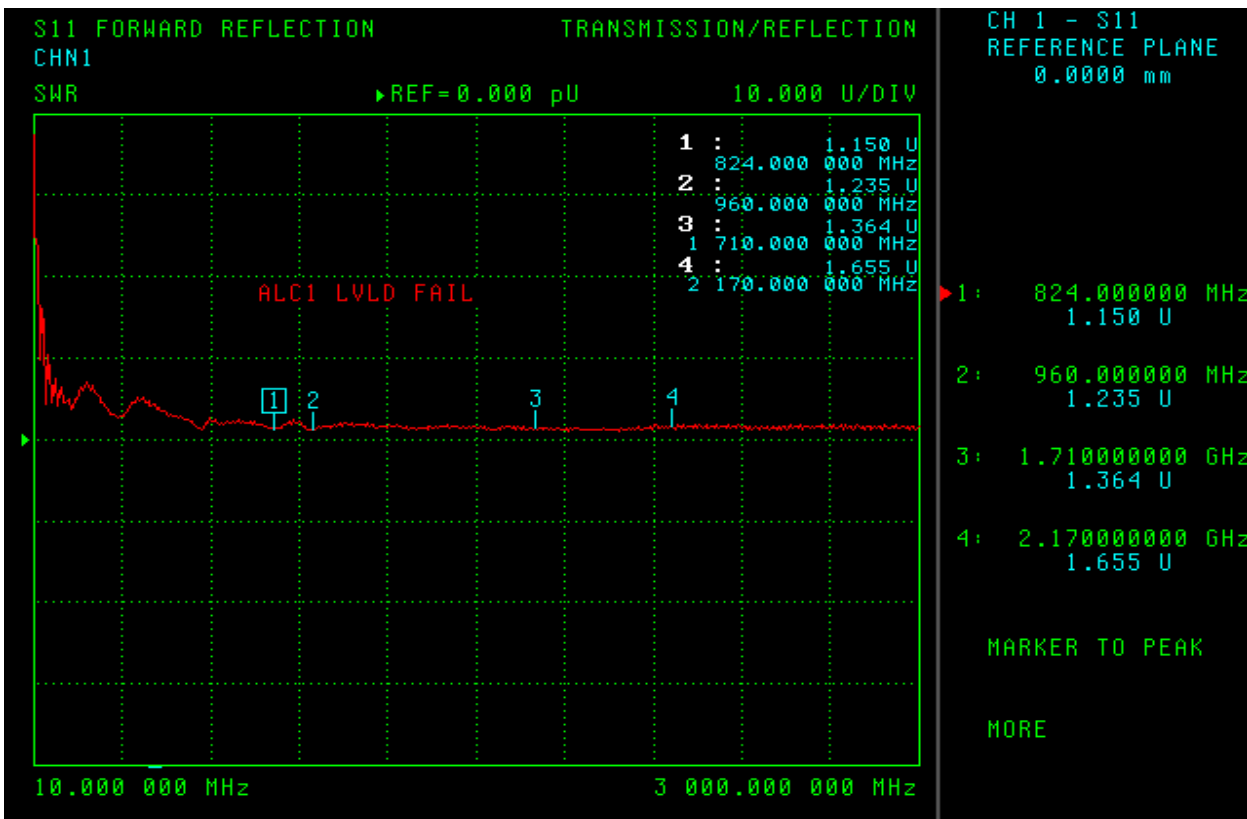
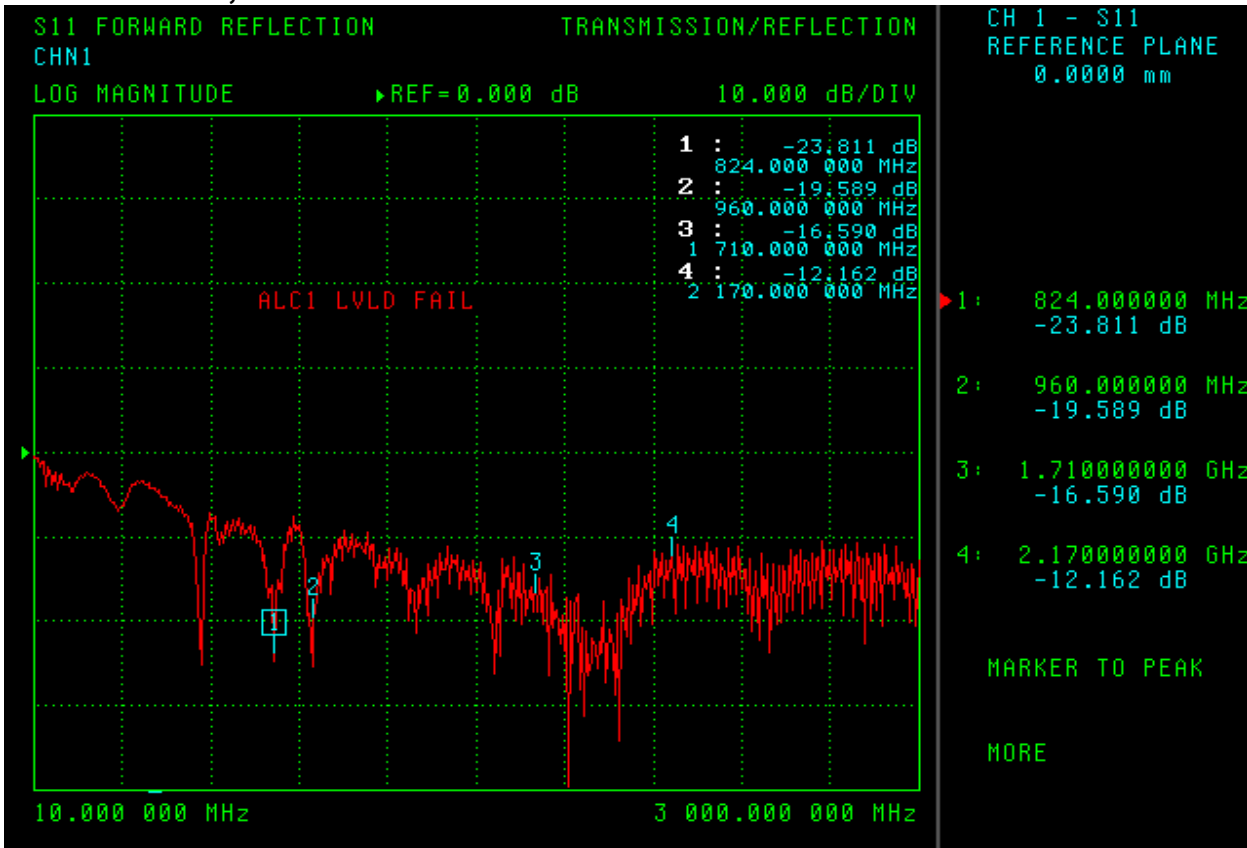
* This specification is subject to change without prior notice

NO.	NAME	FINISH	Q, TY
01	Antenna	White	01
02	Antenna connector	White	01
03	Base	White	01
04	RG-58/U Cable	Black	01
05	SMA 180° (Male)	Golden plating	01



 Third angle projection		CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
TOLERANCE	L XX+0.15	NAME		900/900/1000/1000/2100MHz	M/M			20101102	1
SURFACE ROUGHNESS		APPEARANCE							

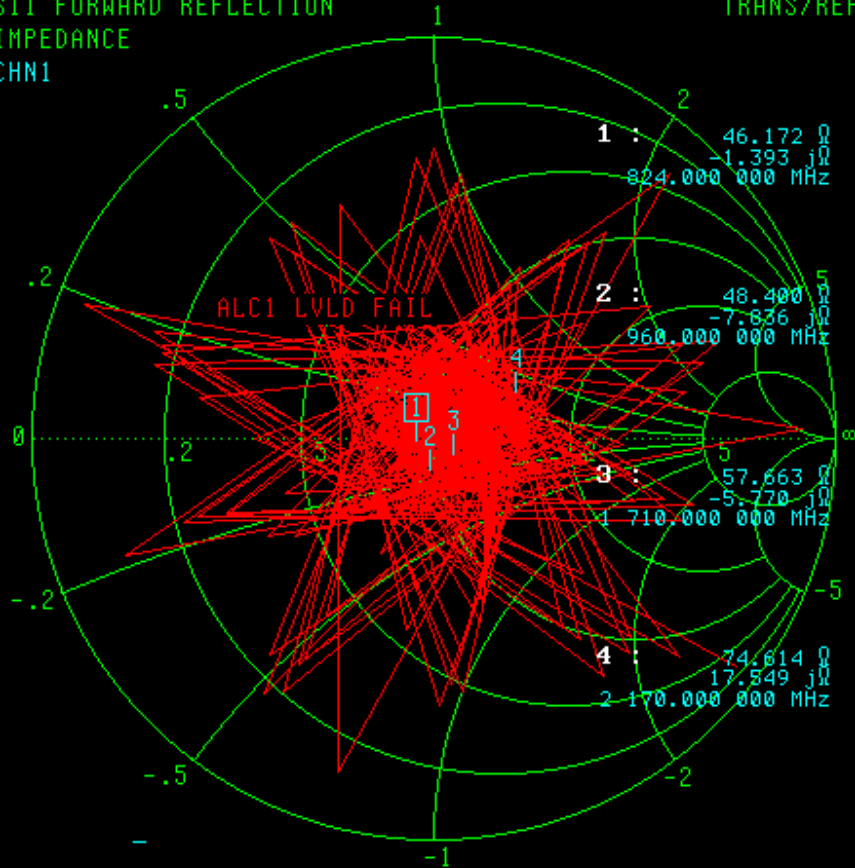
Return Loss, V.S.W.R. and Smith Chart



S11 FORWARD REFLECTION
IMPEDANCE
CHN1

TRANS/REFL

CH 1 - S11
REFERENCE PLANE
0.0000 mm



1 : 46.172 Ω
-1.393 jΩ
824.000 000 MHz

2 : 48.400 Ω
-7.836 jΩ
960.000 000 MHz

3 : 57.663 Ω
-5.770 jΩ
1 710.000 000 MHz

4 : 74.614 Ω
17.549 jΩ
2 170.000 000 MHz

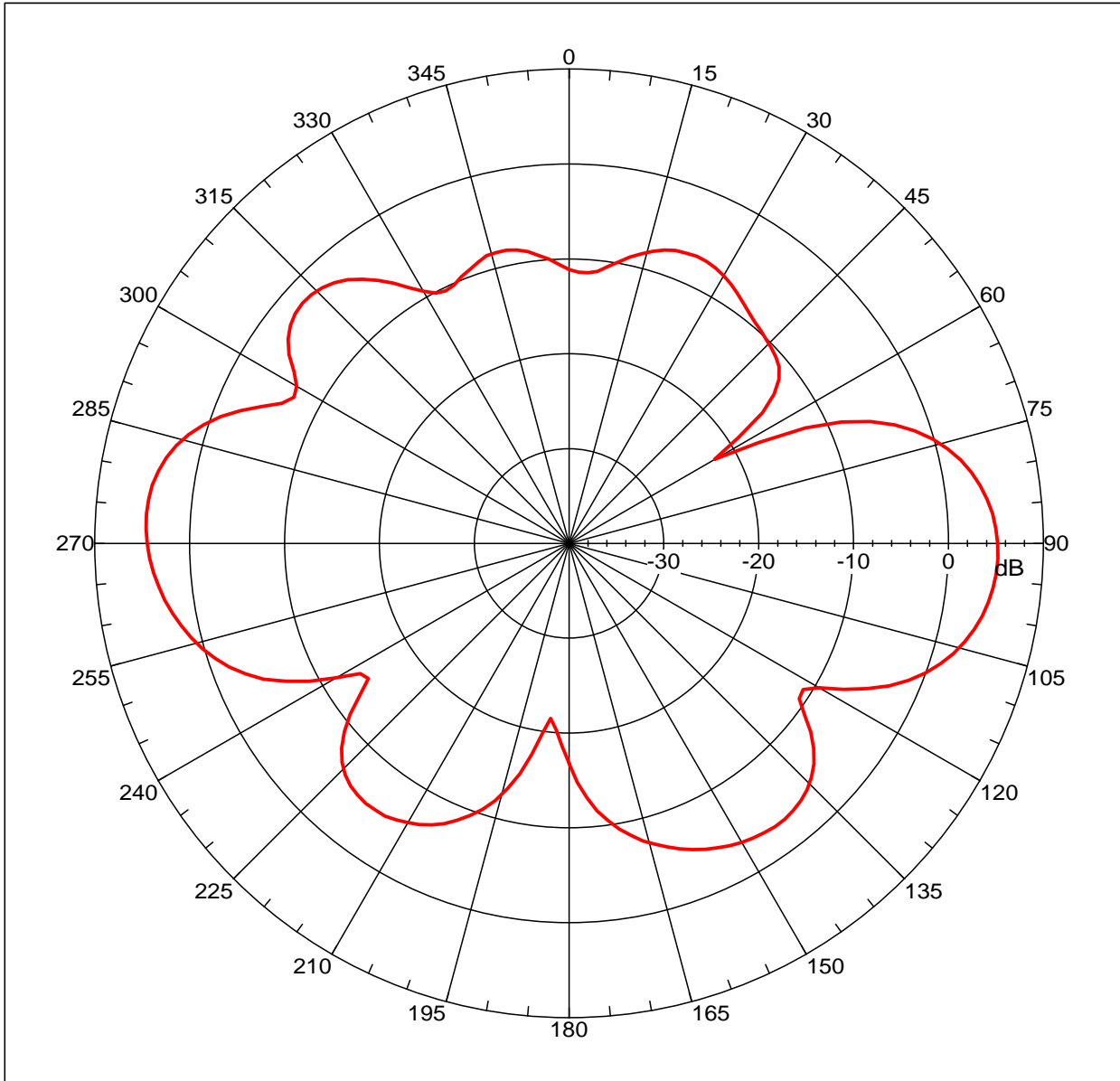
- ▶ 1: 824.000000 MHz
46.172 Ω
-1.393 jΩ
- 2: 960.000000 MHz
48.400 Ω
-7.836 jΩ
- 3: 1.710000000 GHz
57.663 Ω
-5.770 jΩ
- 4: 2.170000000 GHz
74.614 Ω
17.549 jΩ

MARKER TO PEAK

MORE

10.000 000 MHz - 3 000.000 000 MHz

Far-field amplitude of 20101102 GSM200 800-2100mhz E-PLANE.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 5.22475 dBi
 Max far-field (global) = -37.77459 dB, Max far-field (plot) = -37.77462 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 91.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz E-PLANE

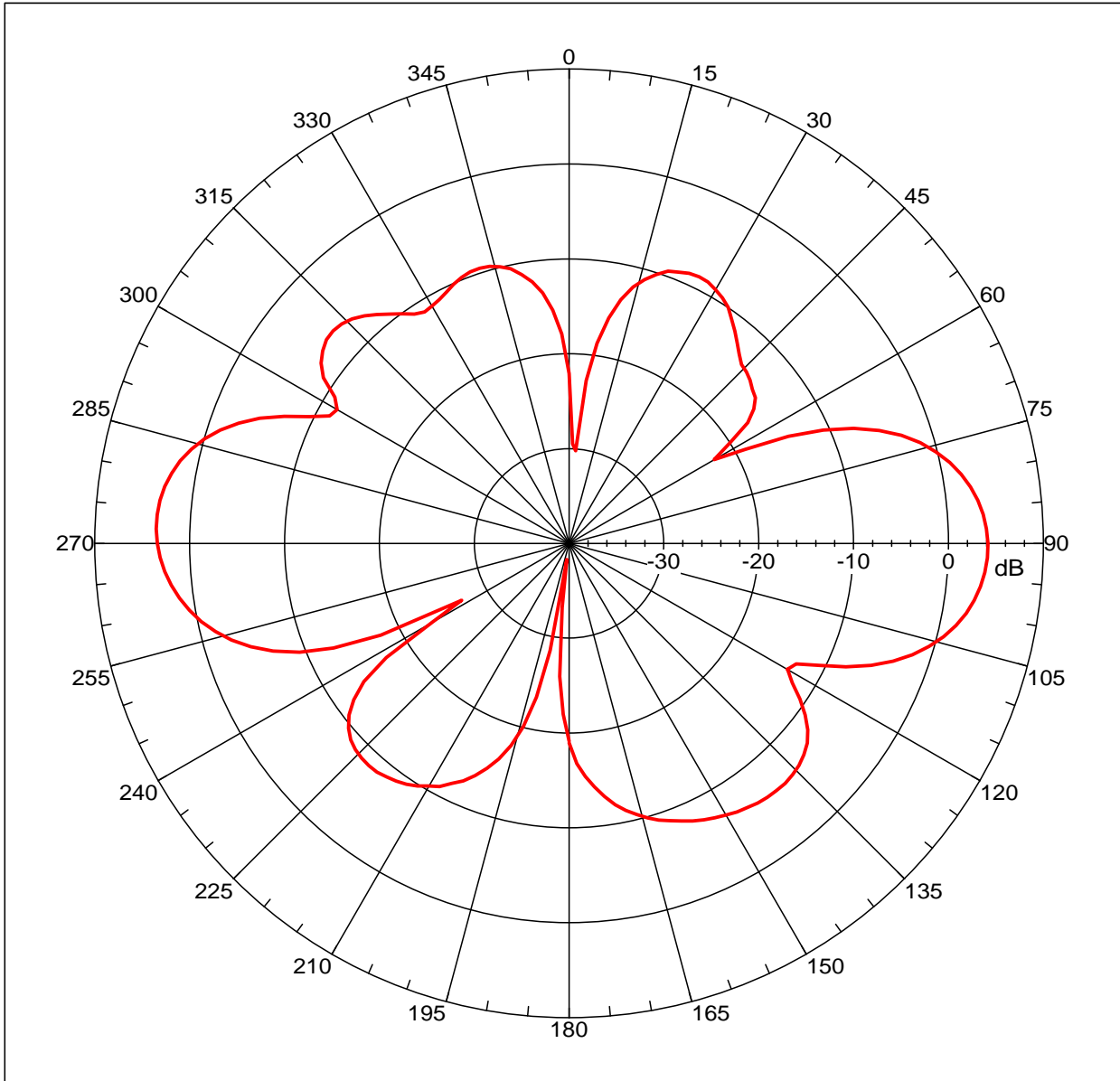
NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz E-PLANE.nsi
 Measurement date/time: 11/2/2010 3:09:30 PM, Filetype: NSI-97

Far-field Cut Analysis:
 Avg value: -3.819 dB
 -3. dB beam width: 27.96 deg
 -6. dB beam width: 38.11 deg
 -10. dB beam width: 47.12 deg
 Left Sidelobe: -12.10 dB at 25.140 deg
 Right Sidelobe: -8.30 dB at 143.799 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 10

Beam	Frequency	Azimuth	Elevation	Pol
1	0.824 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz E-PLANE.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 4.1487 dBi
 Max far-field (global) = -36.61913 dB, Max far-field (plot) = -36.61919 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 90.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz E-PLANE.nsi
 Measurement date/time: 11/2/2010 3:09:30 PM, Filetype: NSI-97

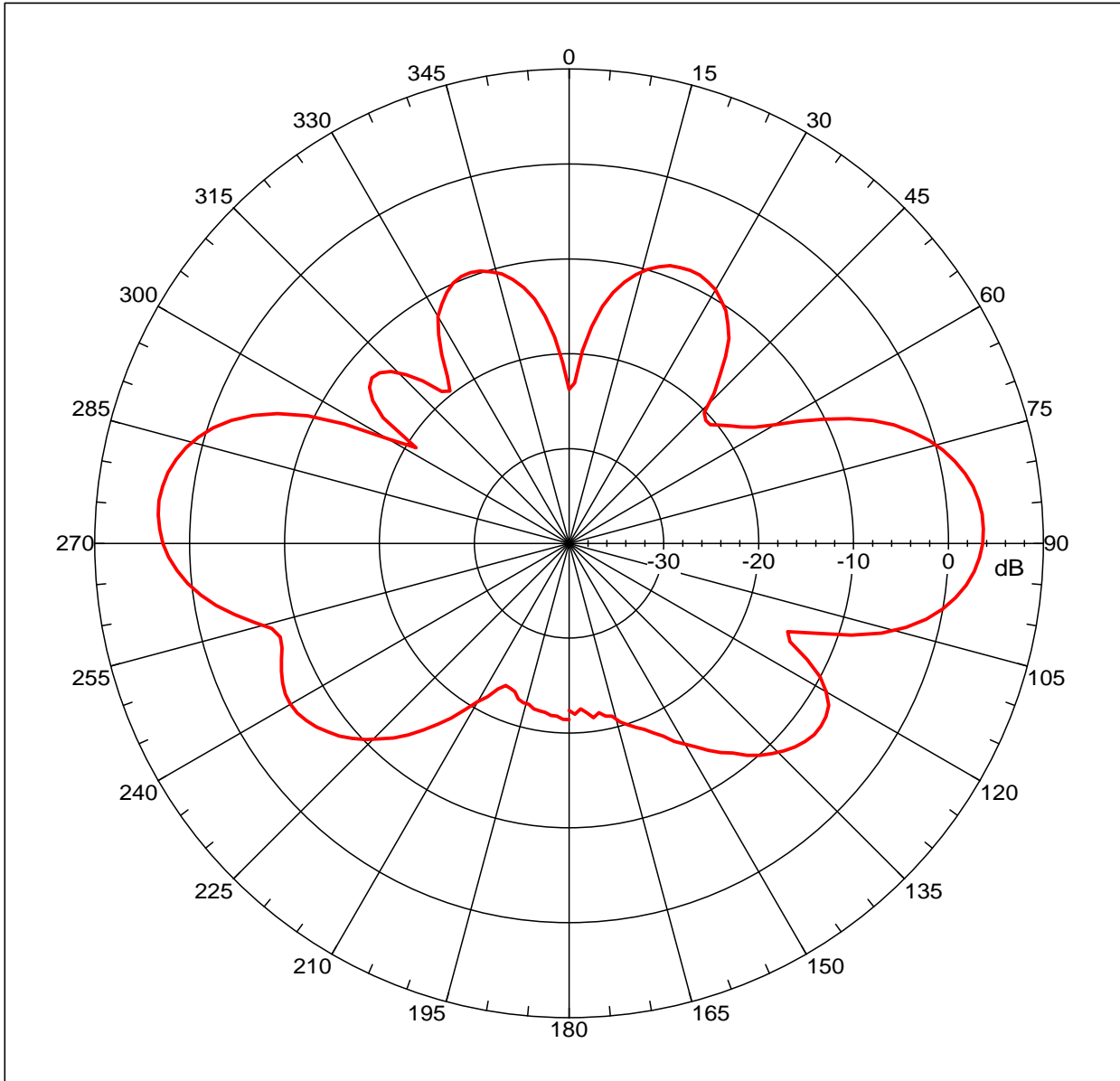
Far-field Cut Analysis:
 Avg value: -6.250 dB
 -3. dB beam width: 24.92 deg
 -6. dB beam width: 34.46 deg
 -10. dB beam width: 42.91 deg
 Left Sidelobe: -12.88 dB at 27.151 deg
 Right Sidelobe: -10.09 dB at 139.777 deg

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 10

Beam	Frequency	Azimuth	Elevation	Pol
2	0.860 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz E-PLANE.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 3.68735 dBi
 Max far-field (global) = -37.87233 dB, Max far-field (plot) = -37.87235 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 87.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz E-PLANE

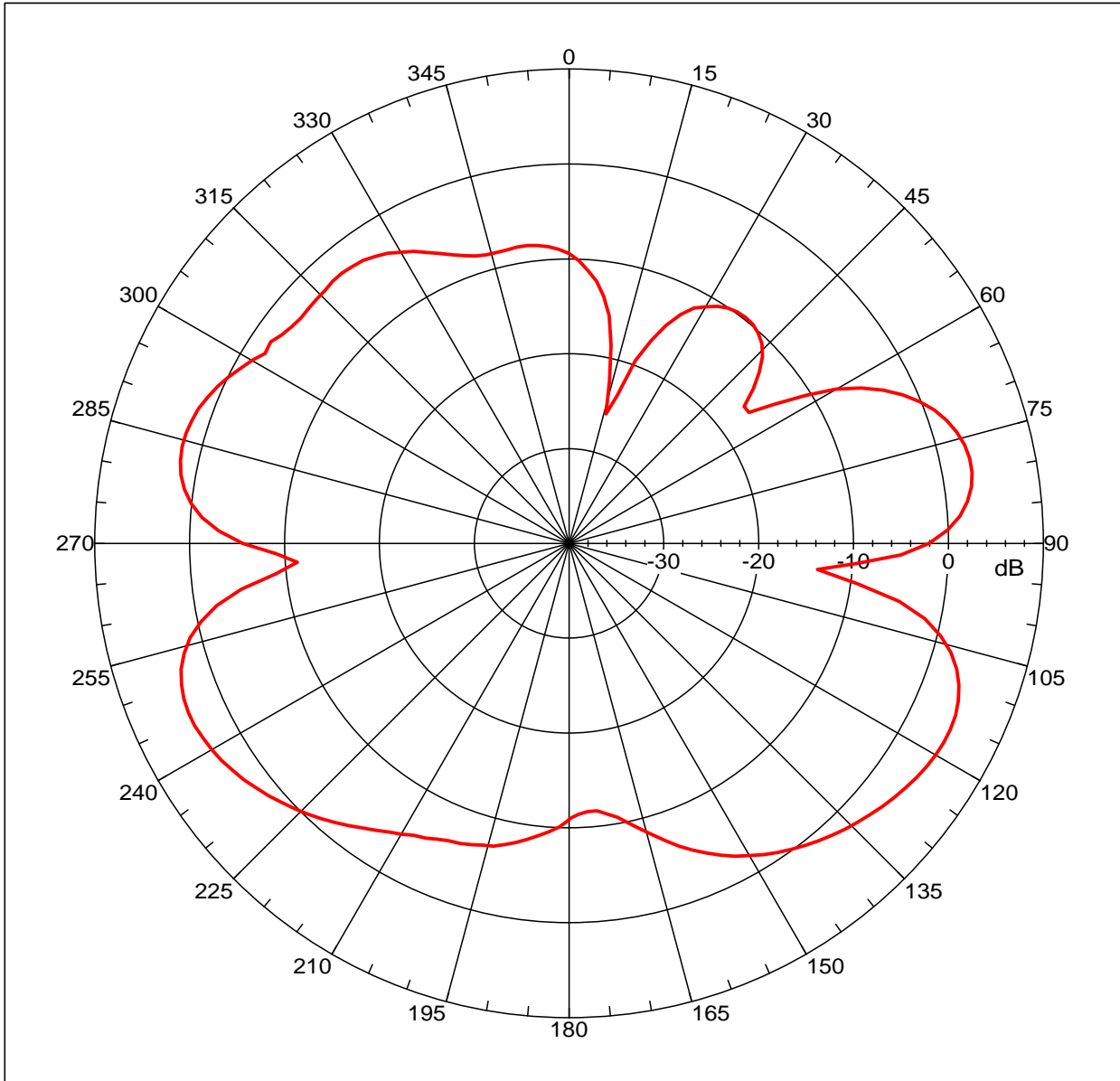
NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz E-PLANE.nsi
 Measurement date/time: 11/2/2010 3:09:30 PM, Filetype: NSI-97

Far-field Cut Analysis:
 Avg value: -7.575 dB
 -3. dB beam width: 22.77 deg
 -6. dB beam width: 31.44 deg
 -10. dB beam width: 39.39 deg
 Left Sidelobe: -12.21 dB at 25.140 deg
 Right Sidelobe: -10.89 dB at 127.710 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 10

Beam	Frequency	Azimuth	Elevation	Pol
3	0.900 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz E-PLANE.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 4.73441 dBi
 Max far-field (global) = -37.89526 dB, Max far-field (plot) = -37.89538 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 116.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz E-PLANE.nsi
 Measurement date/time: 11/2/2010 3:09:30 PM, Filetype: NSI-97

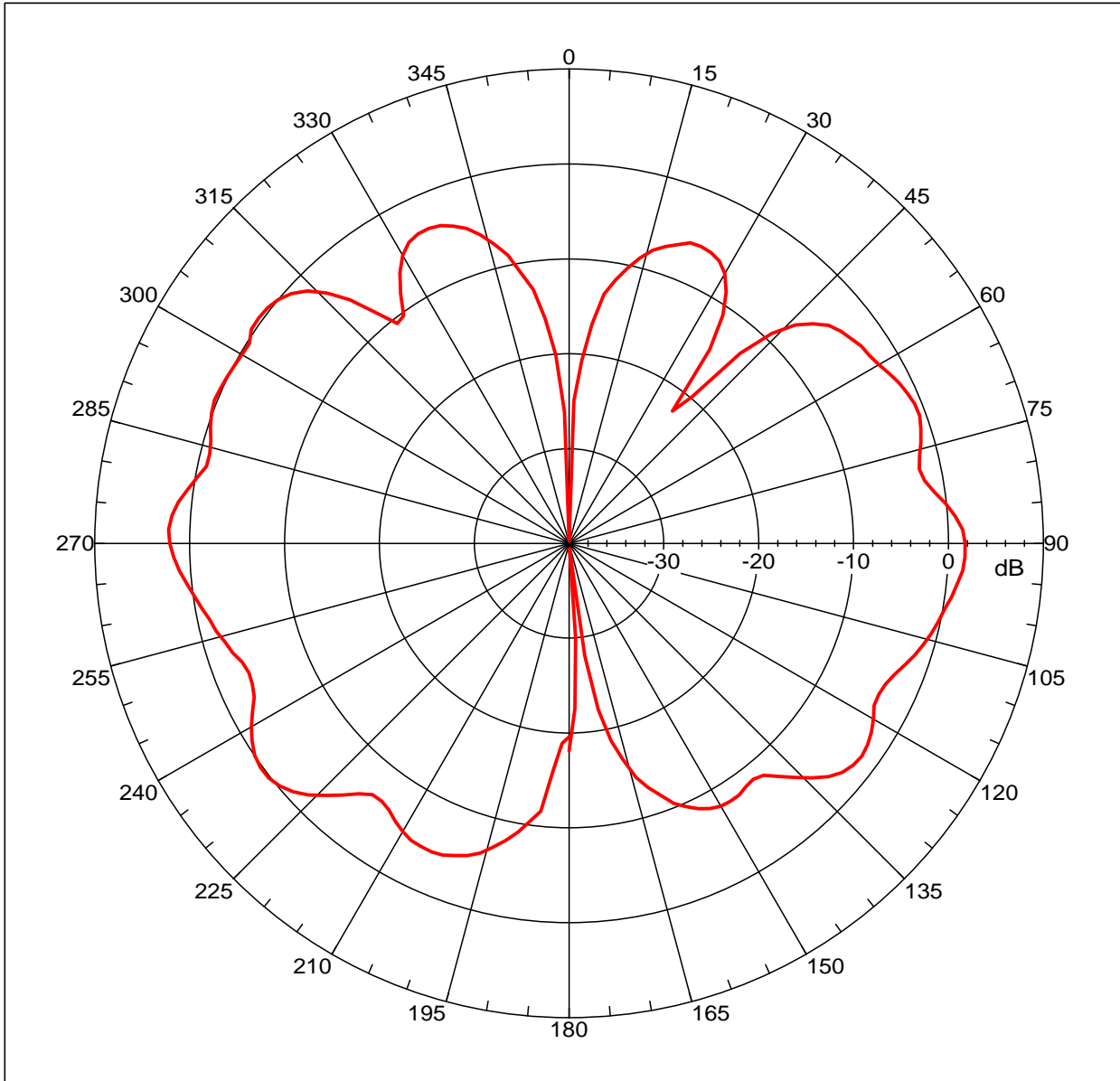
Far-field Cut Analysis:
 Avg value: -2.488 dB
 -3. dB beam width: 30.96 deg
 -6. dB beam width: 45.67 deg
 -10. dB beam width: 58.93 deg
 Left Sidelobe: -1.58 dB at 79.441 deg
 Right Sidelobe: Not Found

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 10

Beam	Frequency	Azimuth	Elevation	Pol
4	0.960 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz E-PLANE.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 2.20355 dBi
 Max far-field (global) = -42.98904 dB, Max far-field (plot) = -42.98923 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -88.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz E-PLANE.nsi
 Measurement date/time: 11/2/2010 3:09:30 PM, Filetype: NSI-97

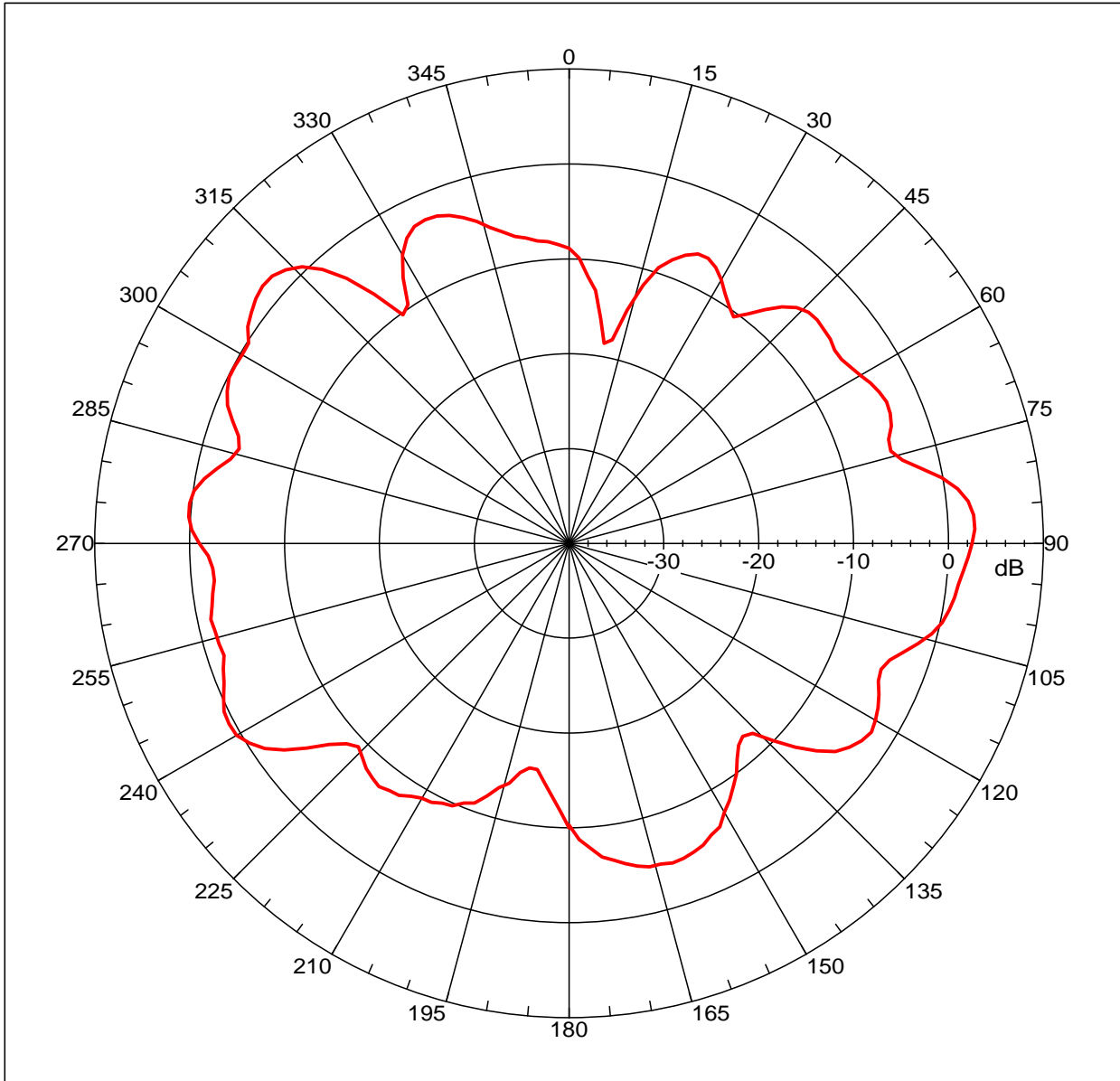
Far-field Cut Analysis:
 Avg value: -4.012 dB
 -3. dB beam width: 22.11 deg
 -6. dB beam width: 94.18 deg
 -10. dB beam width: 128.00 deg
 Left Sidelobe: -2.00 dB at -125.698 deg
 Right Sidelobe: -1.93 dB at -67.374 deg

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 10

Beam	Frequency	Azimuth	Elevation	Pol
5	1.710 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz E-PLANE.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 2.80795 dBi
Max far-field (global) = -44.01409 dB, Max far-field (plot) = -44.0142 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 87.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

20101102 GSM200 800-2100mhz E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz E-PLANE.nsi
Measurement date/time: 11/2/2010 3:09:30 PM, Filetype: NSI-97

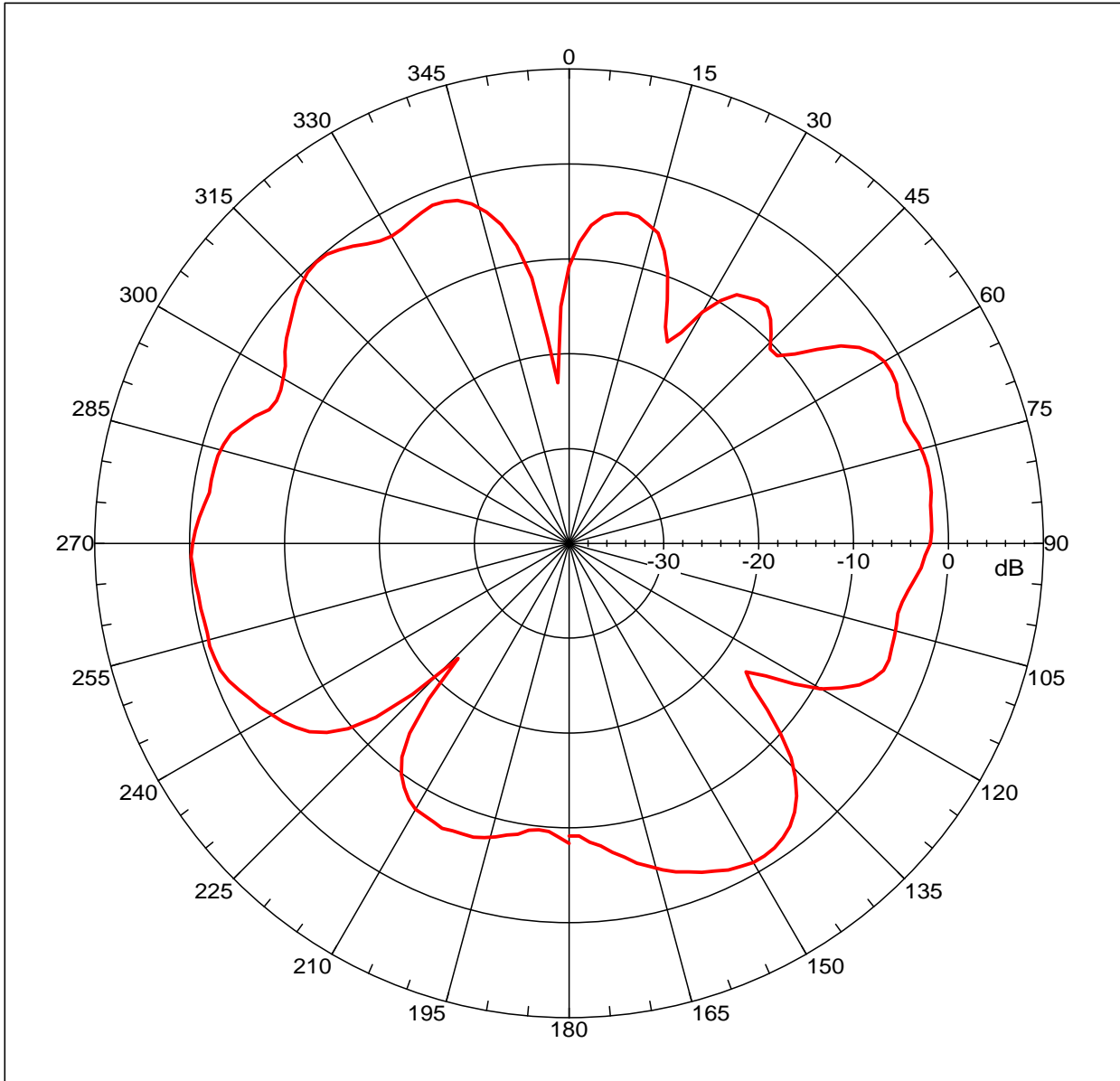
Far-field Cut Analysis:
Avg value: -4.143 dB
-3. dB beam width: 23.17 deg
-6. dB beam width: 31.99 deg
-10. dB beam width: 90.82 deg
Left Sidelobe: -6.18 dB at 67.374 deg
Right Sidelobe: -5.23 dB at 123.687 deg

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 10

Beam	Frequency	Azimuth	Elevation	Pol
6	1.800 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz E-PLANE.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = -0.15124 dBi
 Max far-field (global) = -46.81981 dB, Max far-field (plot) = -46.81998 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -92.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz E-PLANE.nsi
 Measurement date/time: 11/2/2010 3:09:30 PM, Filetype: NSI-97

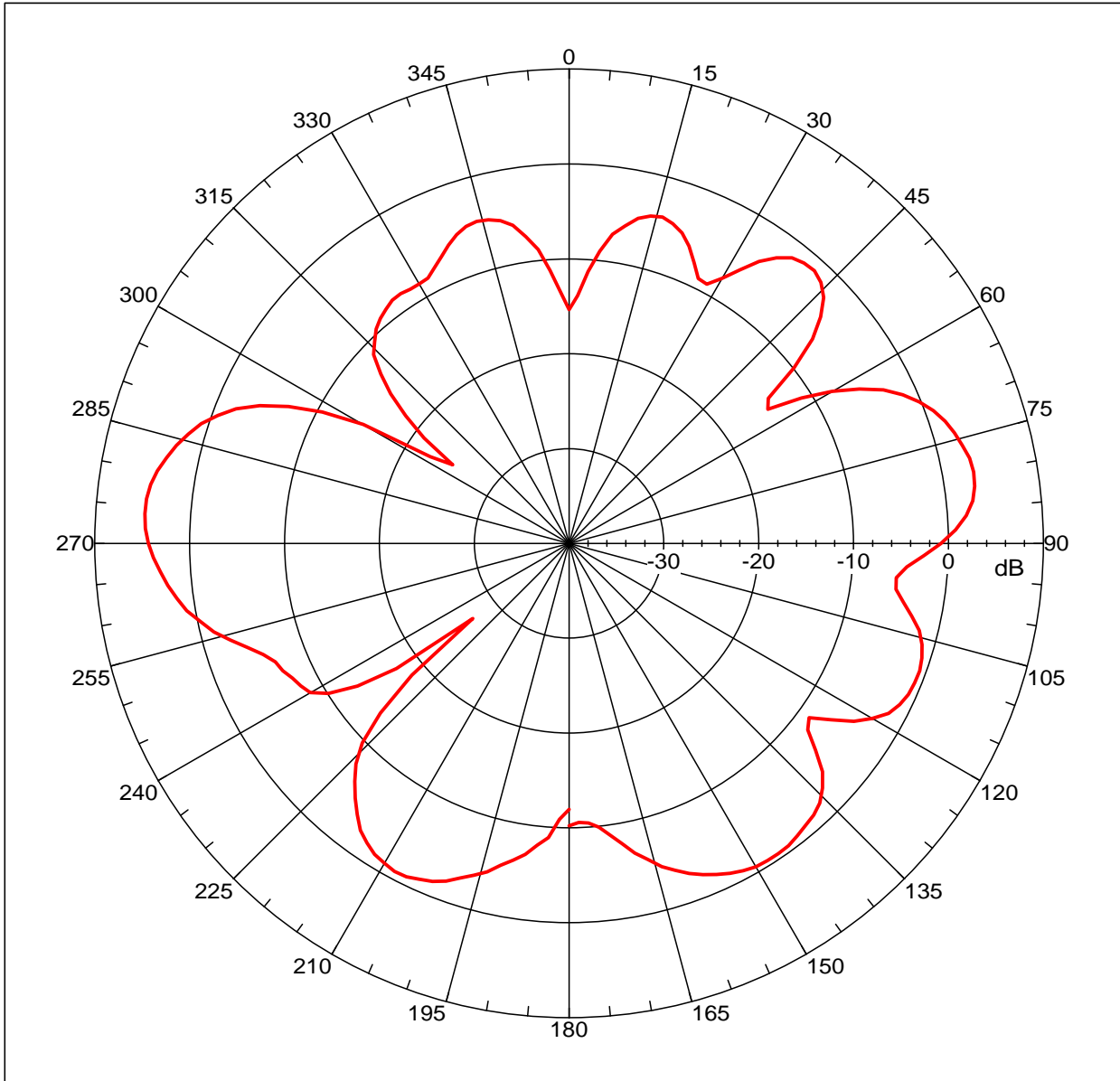
Far-field Cut Analysis:
 Avg value: -4.596 dB
 -3. dB beam width: 47.63 deg
 -6. dB beam width: 114.94 deg
 -10. dB beam width: 122.17 deg
 Left Sidelobe: -6.97 dB at -155.866 deg
 Right Sidelobe: -0.01 dB at -41.229 deg

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 10

Beam	Frequency	Azimuth	Elevation	Pol
7	1.880 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz E-PLANE.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 4.8028 dBi
 Max far-field (global) = -43.0033 dB, Max far-field (plot) = -43.00349 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -86.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz E-PLANE.nsi
 Measurement date/time: 11/2/2010 3:09:30 PM, Filetype: NSI-97

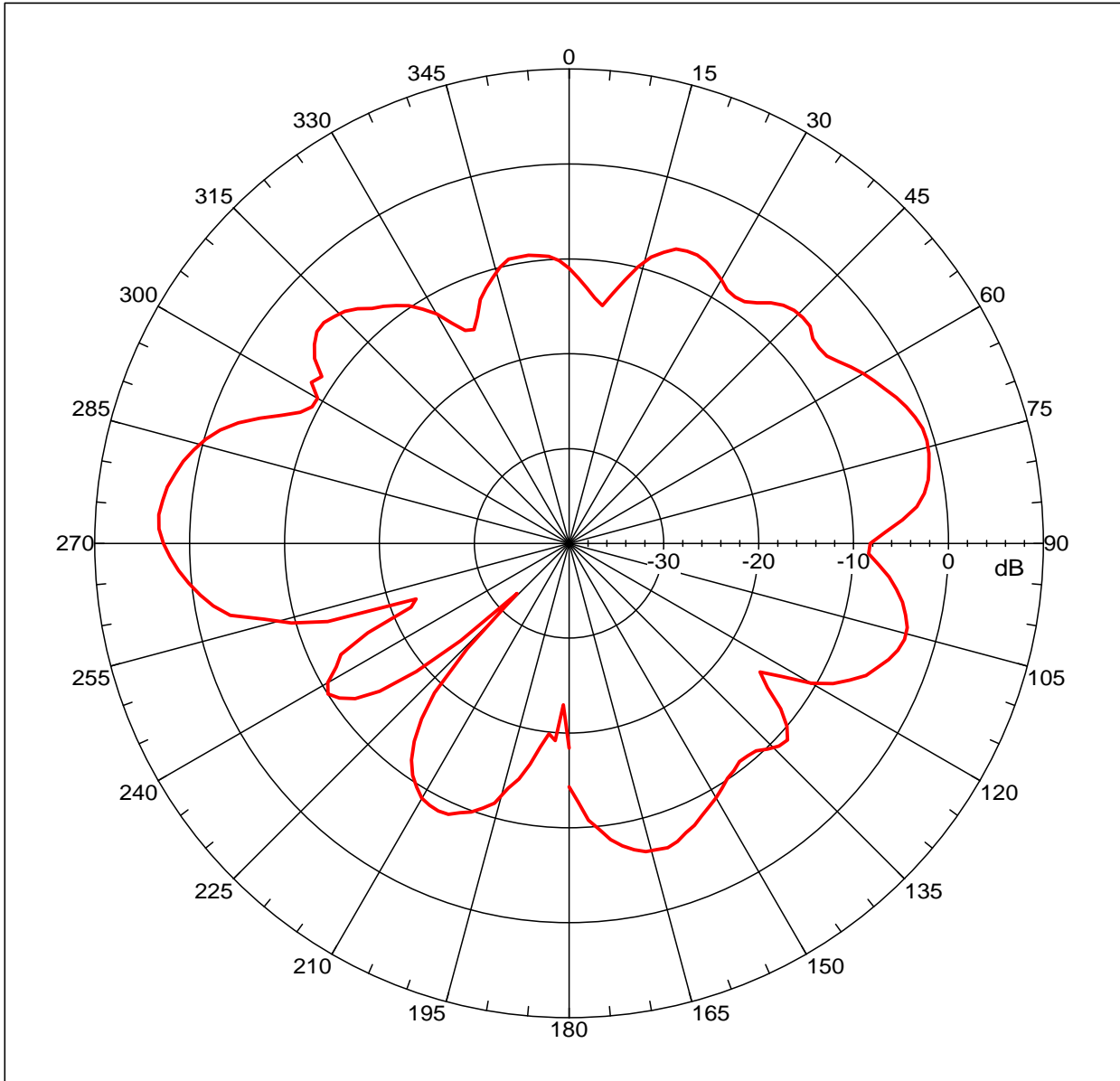
Far-field Cut Analysis:
 Avg value: -3.566 dB
 -3. dB beam width: 23.82 deg
 -6. dB beam width: 34.56 deg
 -10. dB beam width: 44.08 deg
 Left Sidelobe: -5.64 dB at -151.844 deg
 Right Sidelobe: -13.08 dB at -33.184 deg

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 10

Beam	Frequency	Azimuth	Elevation	Pol
8	1.990 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz E-PLANE.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 3.33757 dBi
 Max far-field (global) = -43.98913 dB, Max far-field (plot) =
 -43.98946 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -86.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz E-PLANE

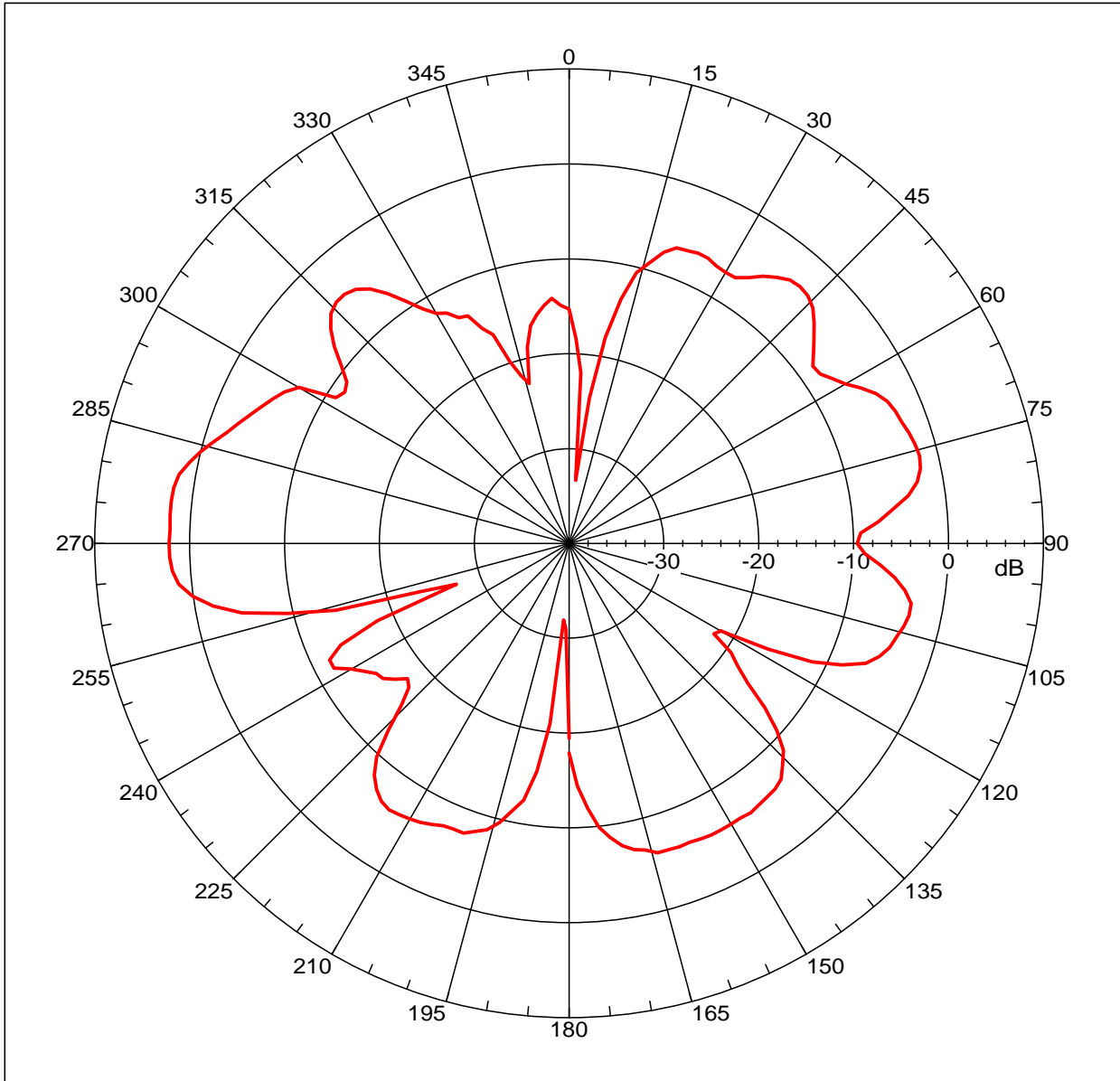
NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200
 800-2100mhz E-PLANE.nsi
 Measurement date/time: 11/2/2010 3:09:30 PM, Filetype: NSI-97

Far-field Cut Analysis:
 Avg value: -6.898 dB
 -3. dB beam width: 20.90 deg
 -6. dB beam width: 30.77 deg
 -10. dB beam width: 37.89 deg
 Left Sidelobe: -13.37 dB at -121.676 deg
 Right Sidelobe: -11.32 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 10

Beam	Frequency	Azimuth	Elevation	Pol
9	2.100 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz E-PLANE.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 2.14811 dBi
 Max far-field (global) = -45.384 dB, Max far-field (plot) = -45.38435 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -90.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz E-PLANE.nsi
 Measurement date/time: 11/2/2010 3:09:30 PM, Filetype: NSI-97

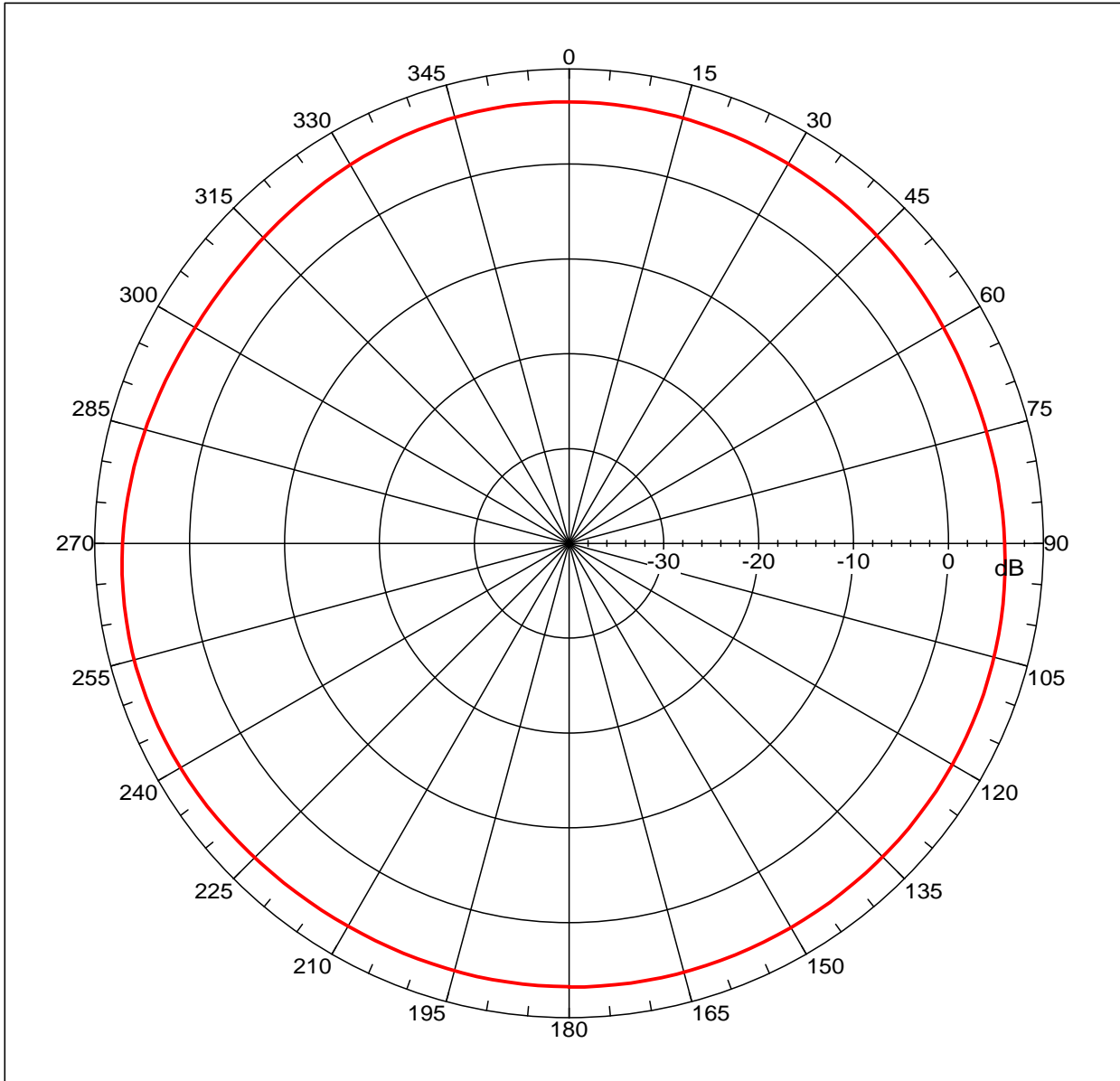
Far-field Cut Analysis:
 Avg value: -7.070 dB
 -3. dB beam width: 24.61 deg
 -6. dB beam width: 33.71 deg
 -10. dB beam width: 43.92 deg
 Left Sidelobe: -14.07 dB at -115.643 deg
 Right Sidelobe: -6.82 dB at -41.229 deg

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 10

Beam	Frequency	Azimuth	Elevation	Pol
10	2.170 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz H-PLANE01.nsi



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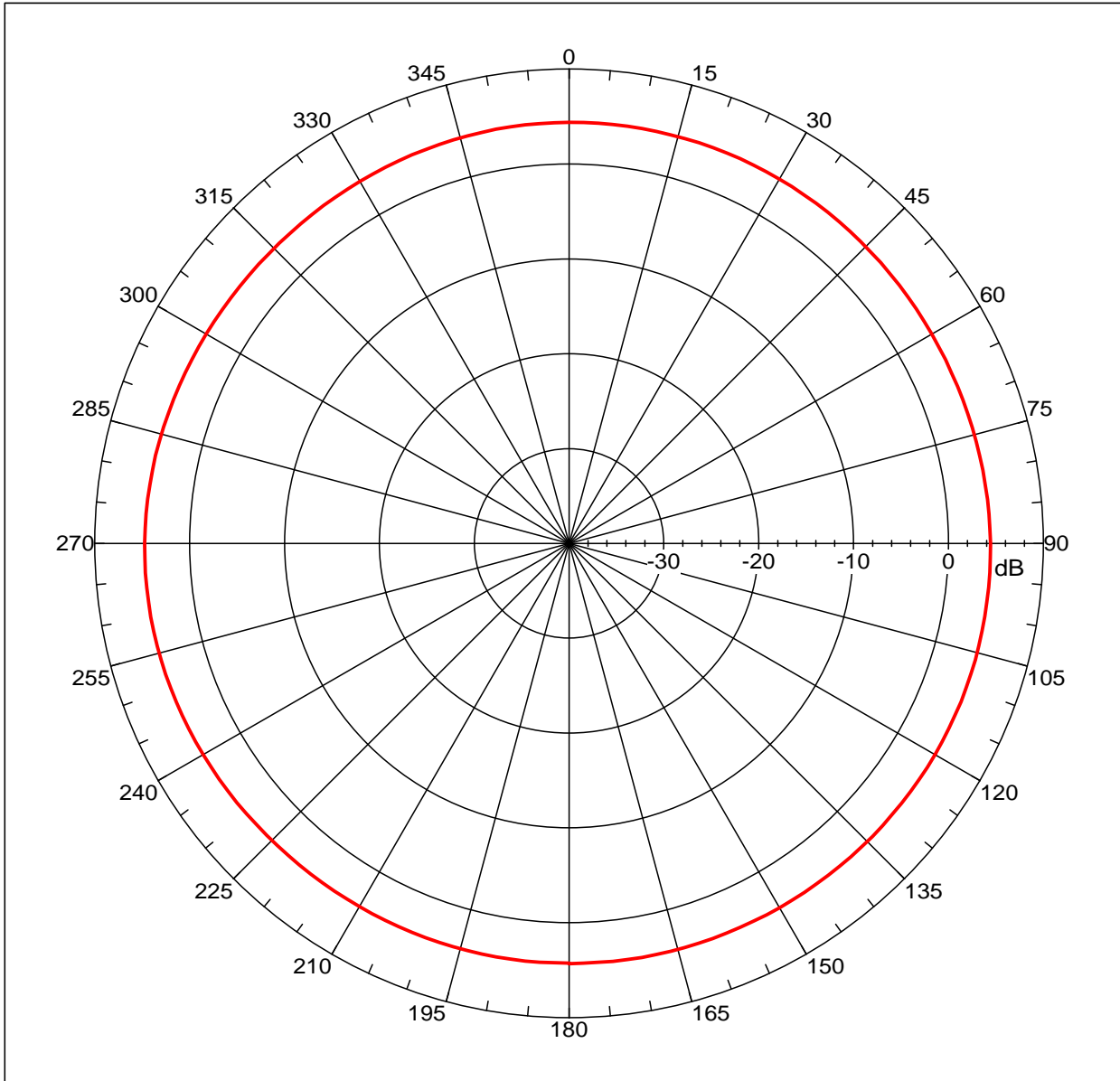
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 7.45139 dBi
Max far-field (global) = -35.54795 dB, Max far-field (plot) =
-35.54797 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -106.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

20101102 GSM200 800-2100mhz H-PLANE

NSI2000 V4.0.124, Filename:C:\nsi2000\Data\20101102 GSM200
800-2100mhz H-PLANE01.nsi
Measurement date/time: 11/2/2010 3:15:53 PM, Filetype: NSI-97
Far-field Cut Analysis:
  Avg value: 6.421 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: -0.90 dB at -7.039 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 10
Beam  Frequency  Azimuth  Elevation  Pol
----  -
1      0.824 GHz  Azimuth  Elevation  Single-pol
    
```

Far-field amplitude of 20101102 GSM200 800-2100mhz H-PLANE01.nsi



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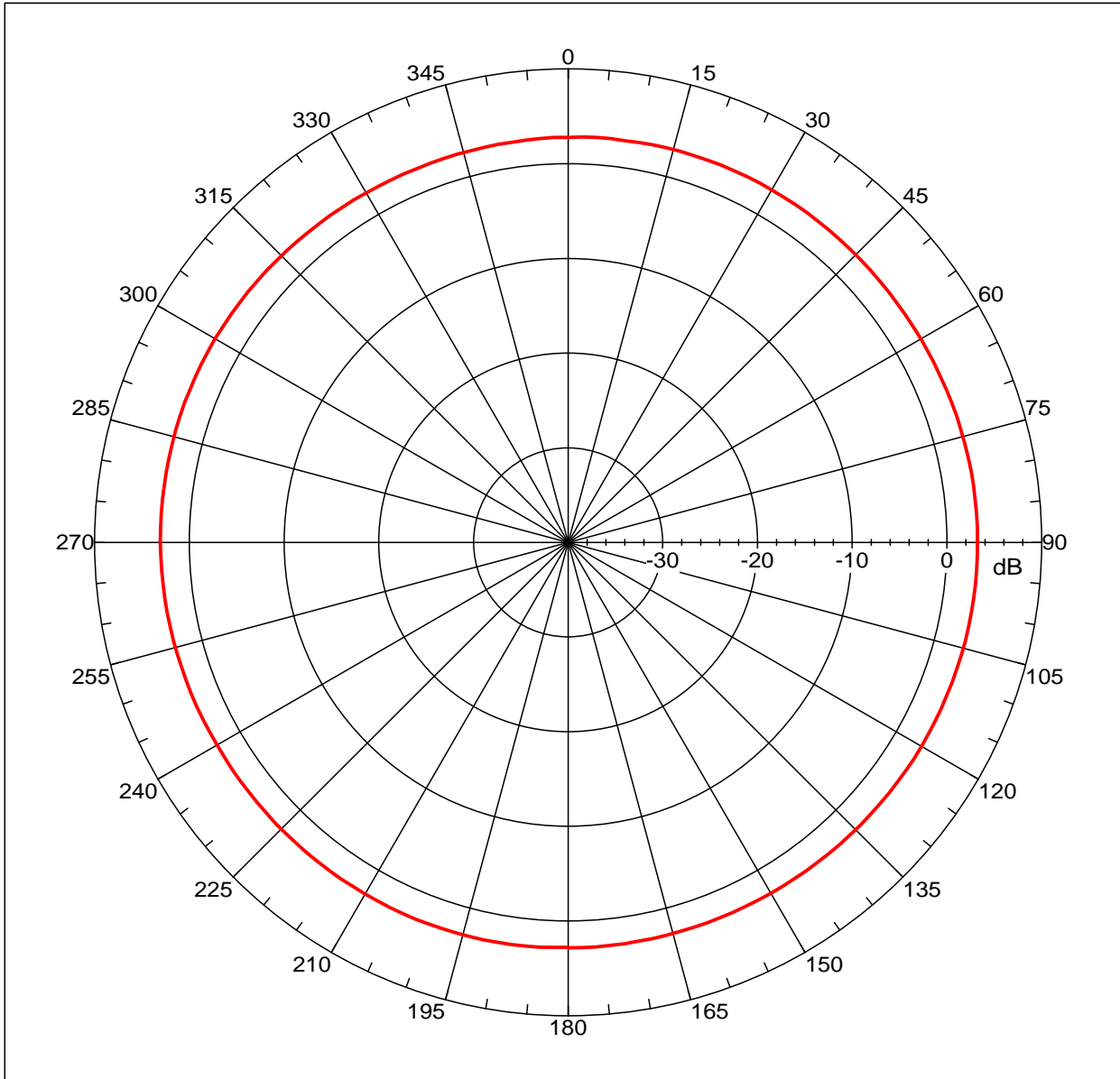
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 4.75831 dBi
Max far-field (global) = -36.00952 dB, Max far-field (plot) =
-36.00953 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -100.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

20101102 GSM200 800-2100mhz H-PLANE

NSI2000 V4.0.124, Filename:C:\nsi2000\Data\20101102 GSM200
800-2100mhz H-PLANE01.nsi
Measurement date/time: 11/2/2010 3:15:53 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: 4.338 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: 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 10
Beam  Frequency  Azimuth  Elevation  Pol
----  -
2      0.860 GHz  Azimuth  Elevation  Single-pol
    
```


Far-field amplitude of 20101102 GSM200 800-2100mhz H-PLANE01.nsi



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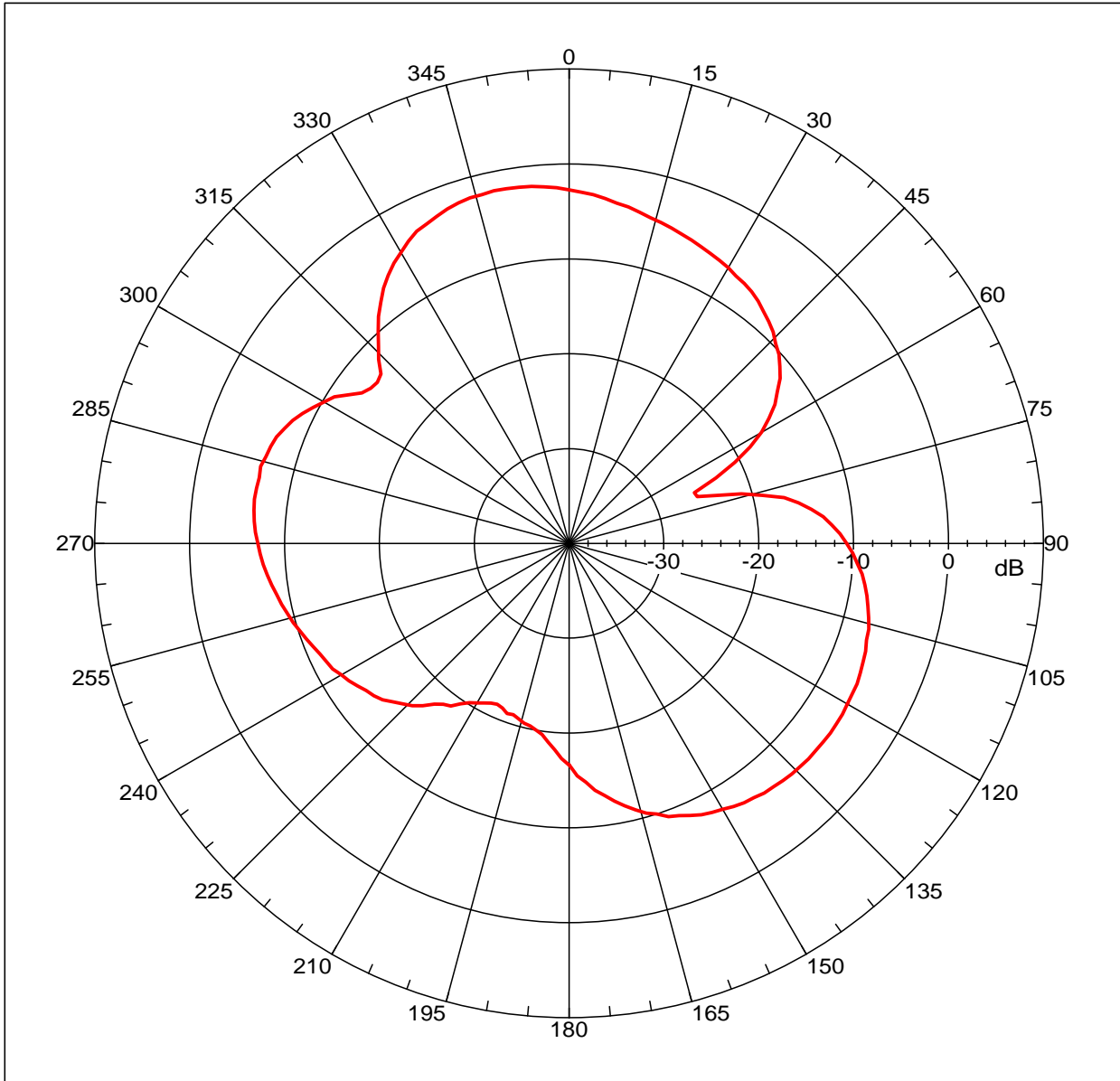
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 3.22685 dBi
Max far-field (global) = -38.33283 dB, Max far-field (plot) =
-38.33283 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 96.000 deg, Vpeak at: 0.000 deg
Plot centering: On

20101102 GSM200 800-2100mhz H-PLANE

NSI2000 V4.0.124, Filename:C:\nsi2000\Data\20101102 GSM200
800-2100mhz H-PLANE01.nsi
Measurement date/time: 11/2/2010 3:15:53 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: 2.917 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: 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 10
Beam Frequency Azimuth Elevation Pol
----
3 0.900 GHz Azimuth Elevation Single-pol
    
```

Far-field amplitude of 20101102 GSM200 800-2100mhz H-PLANE01.nsi



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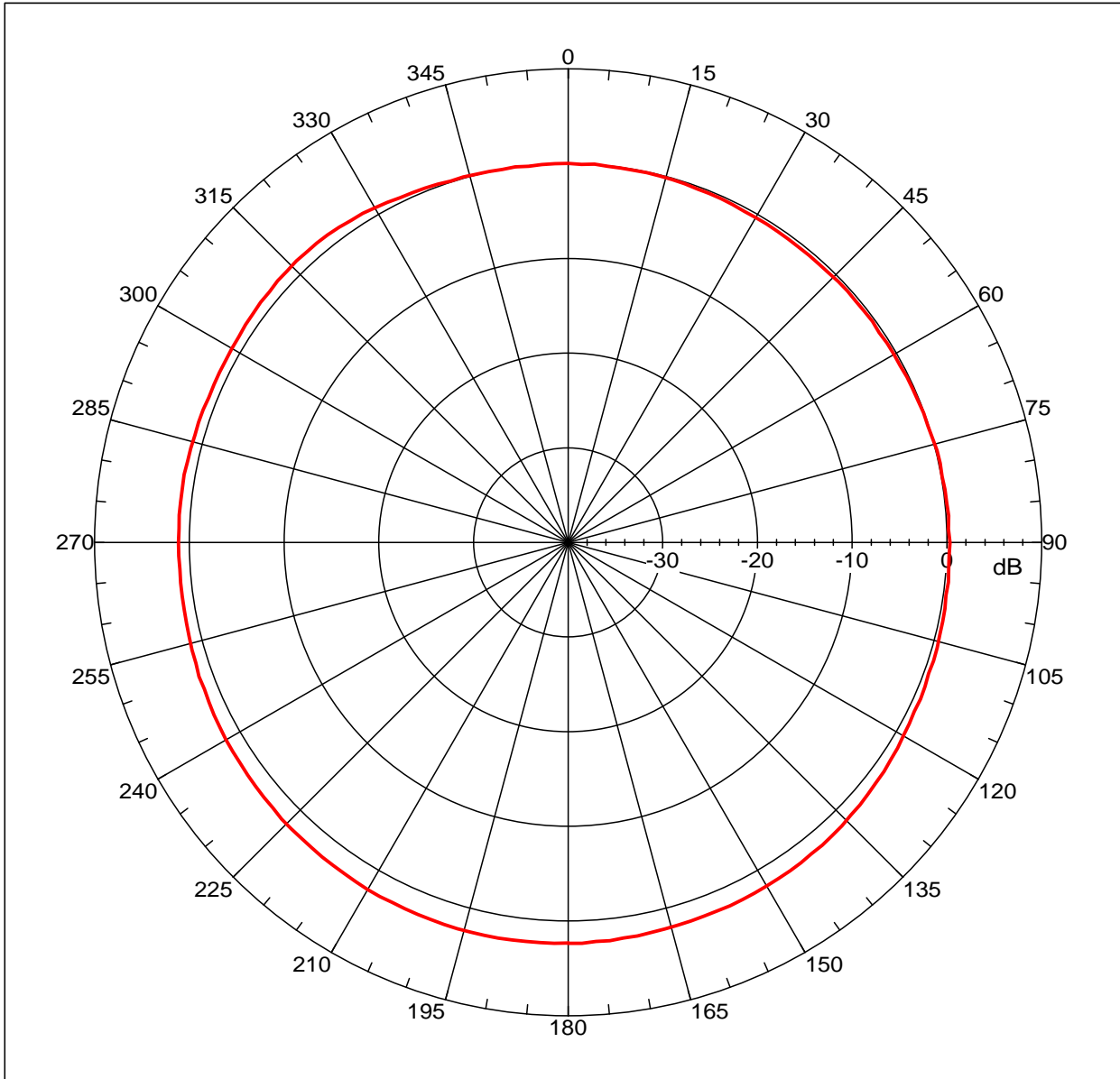
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = -2.00271 dBi
Max far-field (global) = -44.63238 dB, Max far-field (plot) =
-44.63239 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -12.00001 deg, Vpeak at: 0.000 deg
Plot centering: On

20101102 GSM200 800-2100mhz H-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200
800-2100mhz H-PLANE01.nsi
Measurement date/time: 11/2/2010 3:15:53 PM, Filetype: NSI-97
Far-field Cut Analysis:
Avg value: -8.812 dB
-3. dB beam width: 49.14 deg
-6. dB beam width: 78.44 deg
-10. dB beam width: 98.76 deg
Left Sidelobe: -4.50 dB at -75.419 deg
Right Sidelobe: -3.97 dB at 127.710 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 10
Beam  Frequency  Azimuth  Elevation  Pol
----  -
4      0.960 GHz  Azimuth  Elevation  Single-pol
    
```

Far-field amplitude of 20101102 GSM200 800-2100mhz H-PLANE01.nsi



```

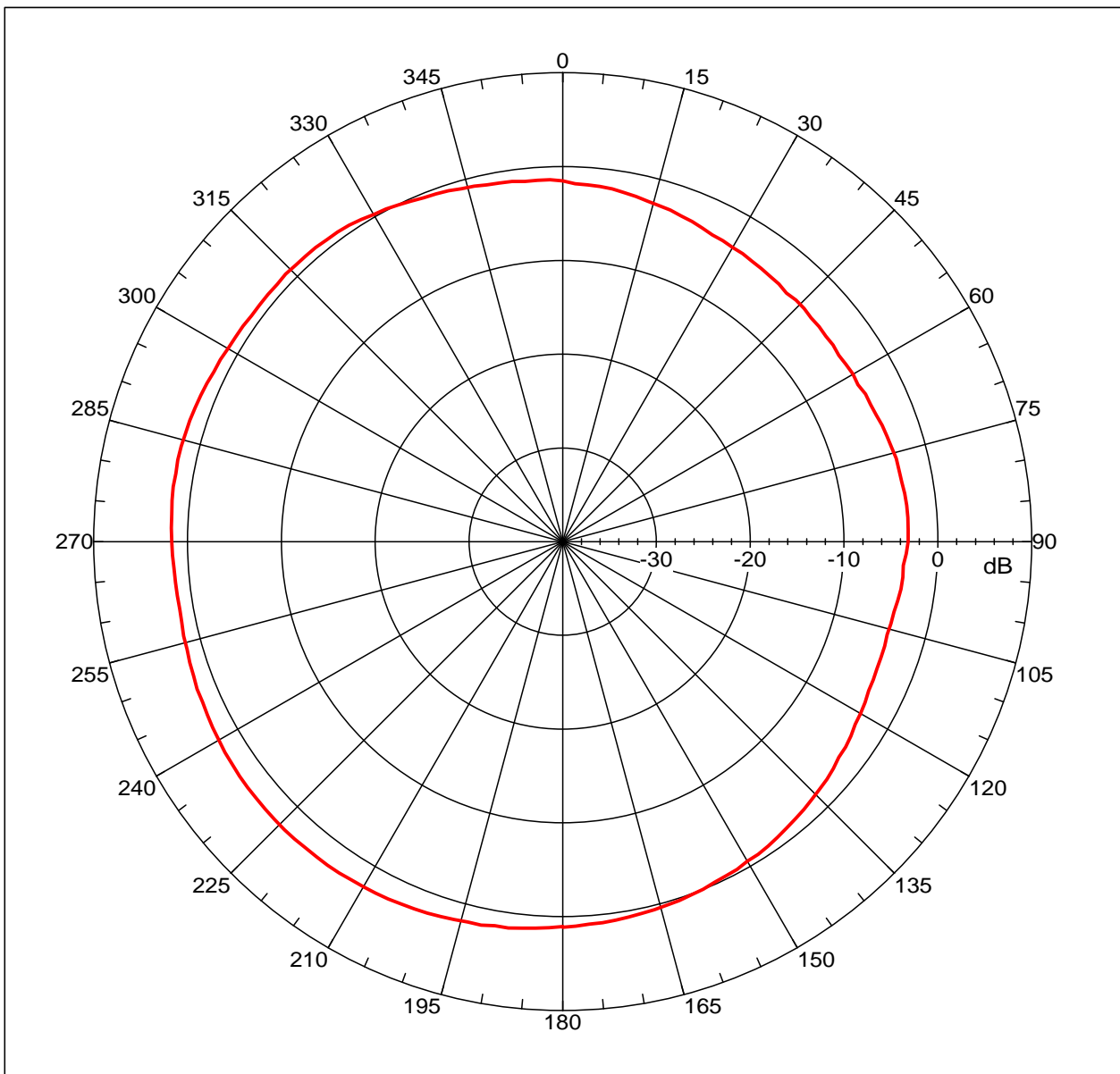
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 2.44001 dBi
Max far-field (global) = -42.75258 dB, Max far-field (plot) =
-42.7526 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: -164.000 deg, Vpeak at: 0.000 deg
Plot centering: On

20101102 GSM200 800-2100mhz H-PLANE

NSI2000 V4.0.124, Filename:C:\nsi2000\Data\20101102 GSM200
800-2100mhz H-PLANE01.nsi
Measurement date/time: 11/2/2010 3:15:53 PM, Filetype: NSI-97
Far-field Cut Analysis:
  Avg value: 1.012 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: -1.88 dB at 109.609 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 10
Beam  Frequency  Azimuth  Elevation  Pol
----  -
5      1.710 GHz  Azimuth  Elevation  Single-pol
    
```

Far-field amplitude of 20101102 GSM200 800-2100mhz H-PLANE01.nsi



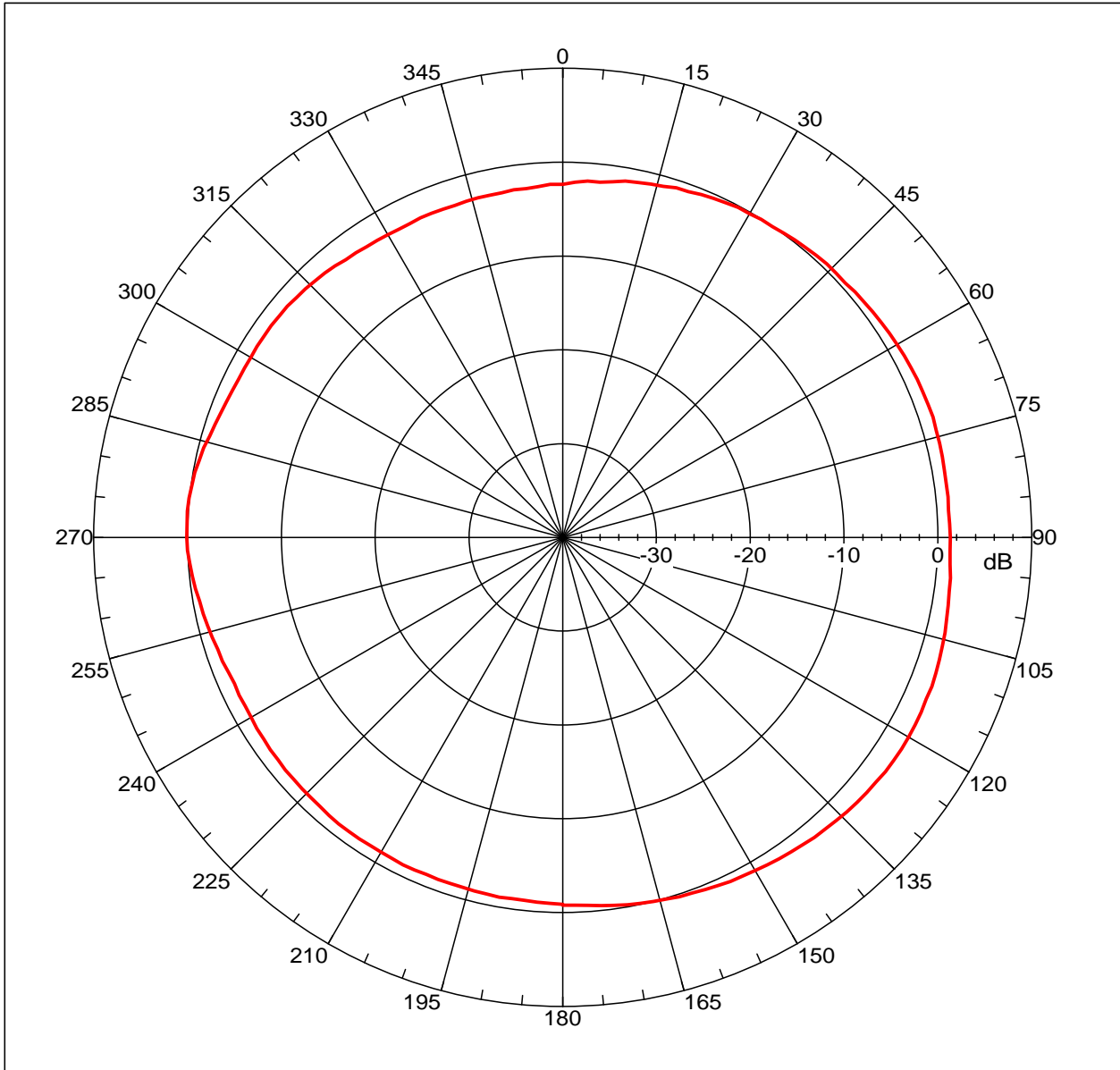
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 2.69343 dBi
 Max far-field (global) = -44.12861 dB, Max far-field (plot) = -44.12864 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -136.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz H-PLANE
 NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz H-PLANE01.nsi
 Measurement date/time: 11/2/2010 3:15:53 PM, Filetype: NSI-97
 Far-field Cut Analysis:
 Avg value: -0.319 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: -5.81 dB at 85.475 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 10

Beam	Frequency	Azimuth	Elevation	Pol
6	1.800 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz H-PLANE01.nsi



```

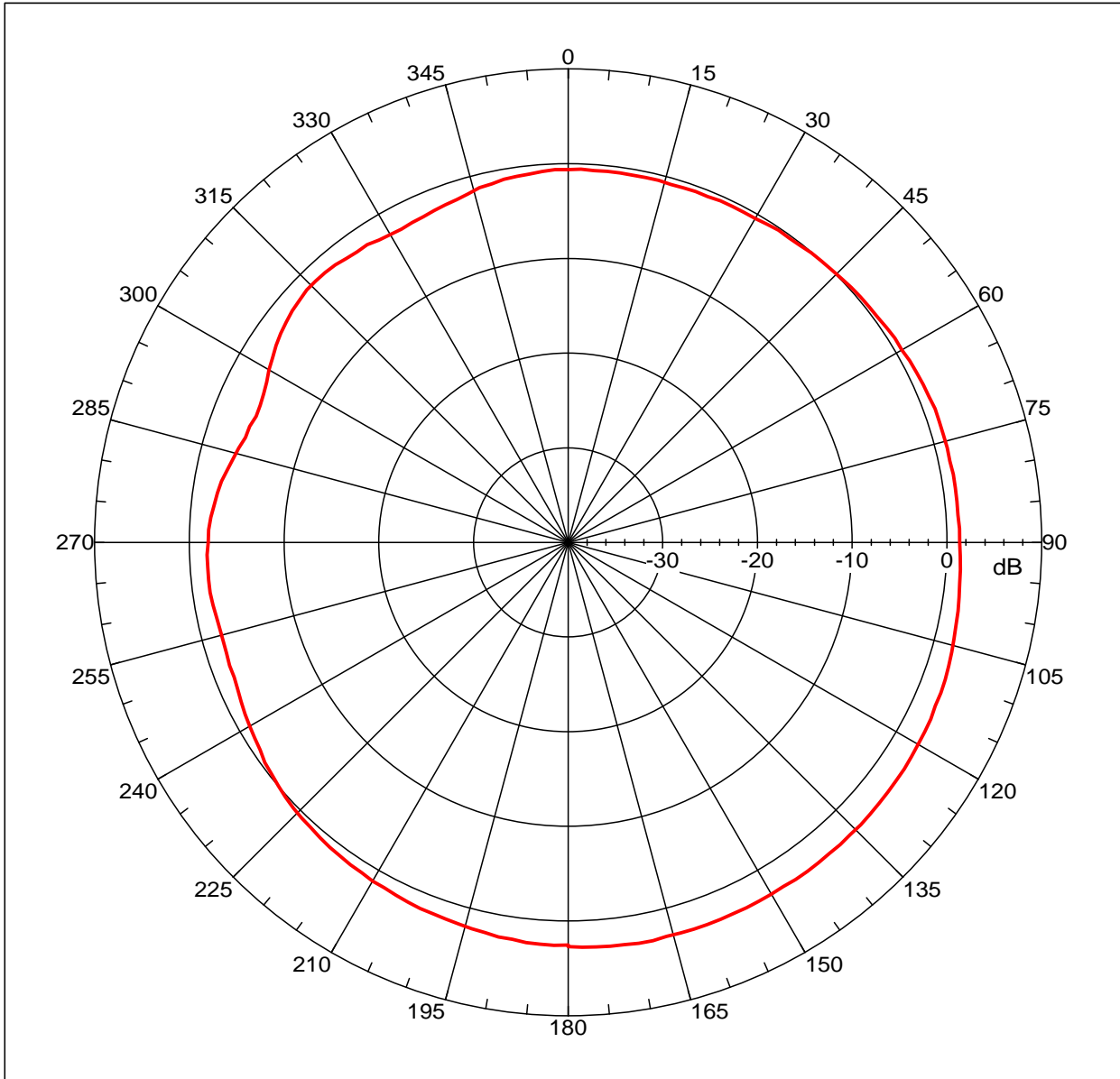
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
Gain = 2.58365 dBi
Max far-field (global) = -44.08492 dB, Max far-field (plot) =
-44.08492 dB
Normalization: Reference, Network offset = 0.000 dB
Hpeak at: 121.99999 deg, Vpeak at: 0.000 deg
Plot centering: On

20101102 GSM200 800-2100mhz H-PLANE

NSI2000 V4.0.124, Filename:C:\nsi2000\Data\20101102 GSM200
800-2100mhz H-PLANE01.nsi
Measurement date/time: 11/2/2010 3:15:53 PM, Filetype: NSI-97
Far-field Cut Analysis:
  Avg value: -0.224 dB
  -3. dB beam width: 148.50 deg
  -6. dB beam width: Not Found
  -10. dB beam width: Not Found
  Left Sidelobe: -4.19 dB at -53.296 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 10
Beam  Frequency  Azimuth  Elevation  Pol
----  -
7      1.880 GHz  Azimuth  Elevation  Single-pol
    
```

Far-field amplitude of 20101102 GSM200 800-2100mhz H-PLANE01.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 3.00545 dBi
 Max far-field (global) = -44.80065 dB, Max far-field (plot) = -44.80075 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 167.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz H-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz H-PLANE01.nsi
 Measurement date/time: 11/2/2010 3:15:53 PM, Filetype: NSI-97

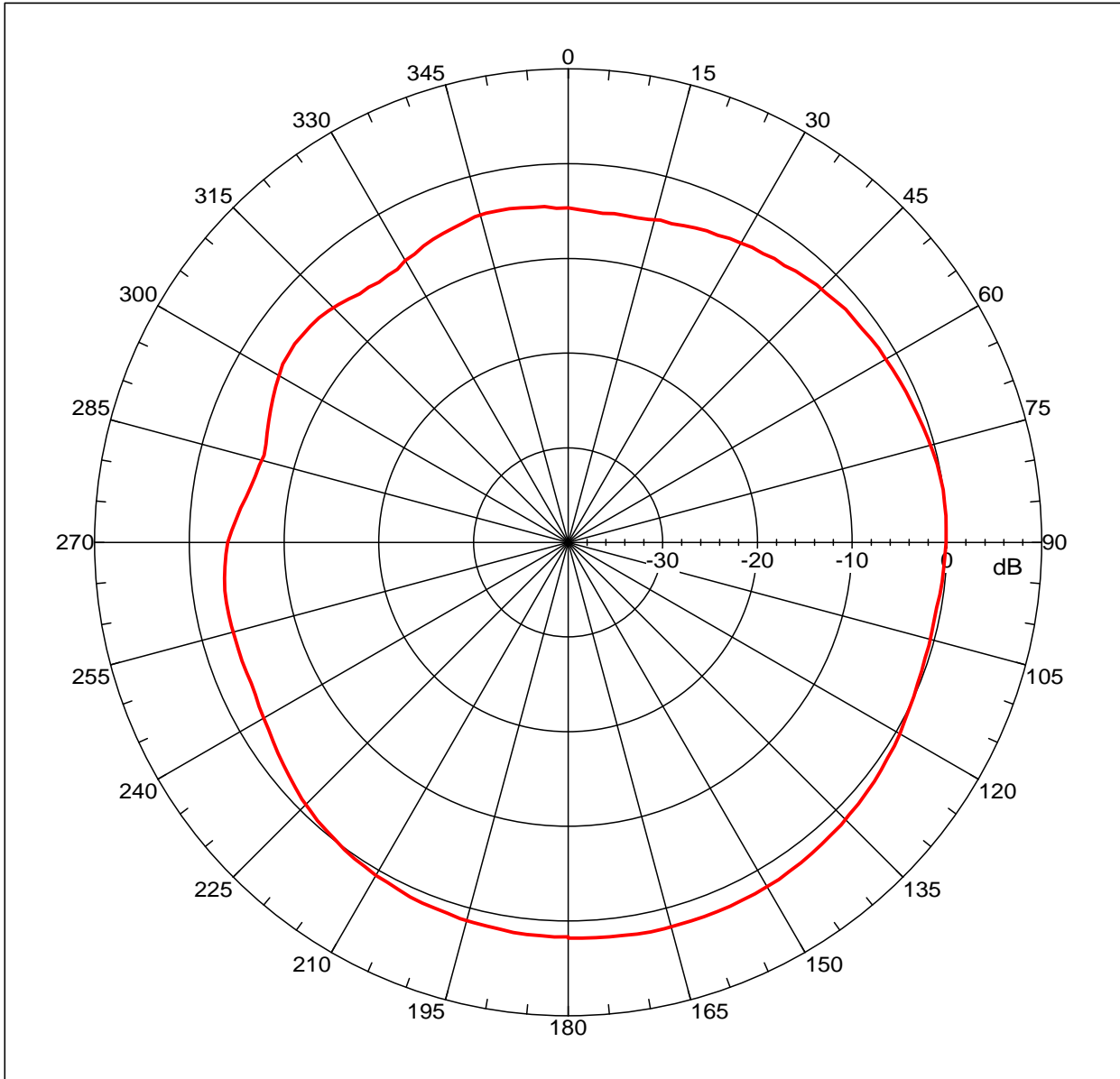
Far-field Cut Analysis:
 Avg value: 0.377 dB
 -3. dB beam width: Not Found
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: -4.88 dB at -91.508 deg
 Right Sidelobe: Not Found

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 10

Beam	Frequency	Azimuth	Elevation	Pol
8	1.990 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz H-PLANE01.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 2.06689 dBi
 Max far-field (global) = -45.25981 dB, Max far-field (plot) = -45.25985 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 155.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz H-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz H-PLANE01.nsi
 Measurement date/time: 11/2/2010 3:15:53 PM, Filetype: NSI-97

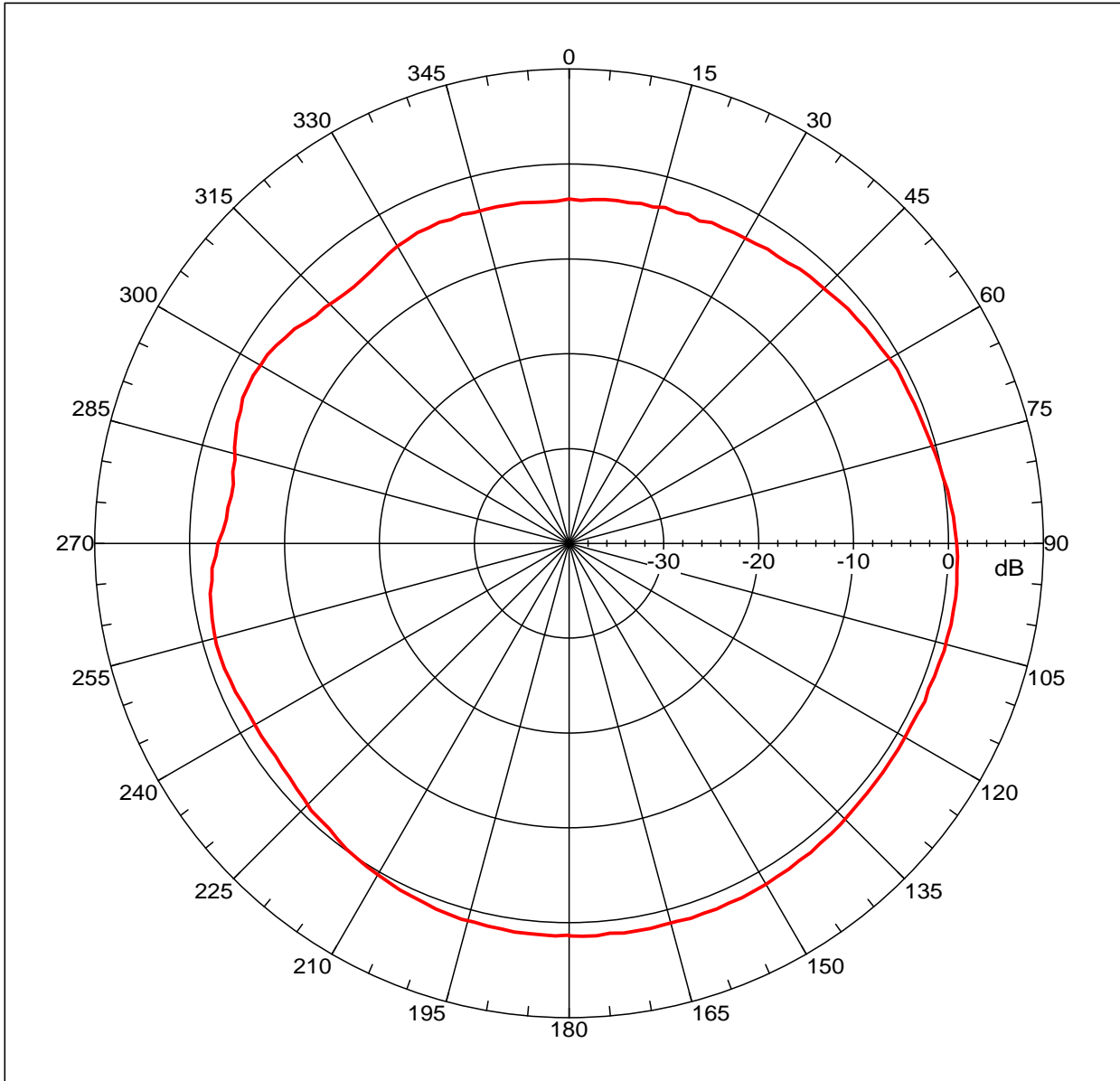
Far-field Cut Analysis:
 Avg value: -1.489 dB
 -3. dB beam width: Not Found
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: -6.40 dB at -53.296 deg
 Right Sidelobe: Not Found

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 10

Beam	Frequency	Azimuth	Elevation	Pol
9	2.100 GHz	Azimuth	Elevation	Single-pol

Far-field amplitude of 20101102 GSM200 800-2100mhz H-PLANE01.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 1.57014 dBi
 Max far-field (global) = -45.96197 dB, Max far-field (plot) = -45.96203 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 153.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

20101102 GSM200 800-2100mhz H-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\Data\20101102 GSM200 800-2100mhz H-PLANE01.nsi
 Measurement date/time: 11/2/2010 3:15:53 PM, Filetype: NSI-97

Far-field Cut Analysis:
 Avg value: -0.970 dB
 -3. dB beam width: Not Found
 -6. dB beam width: Not Found
 -10. dB beam width: Not Found
 Left Sidelobe: -3.88 dB at -61.341 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 10

Beam	Frequency	Azimuth	Elevation	Pol
10	2.170 GHz	Azimuth	Elevation	Single-pol