

OUTSIDE GSM ANTENNA

MODEL: GSM-100

Fiber Glass Antenna

850/900/1800/1900/2170Mhz

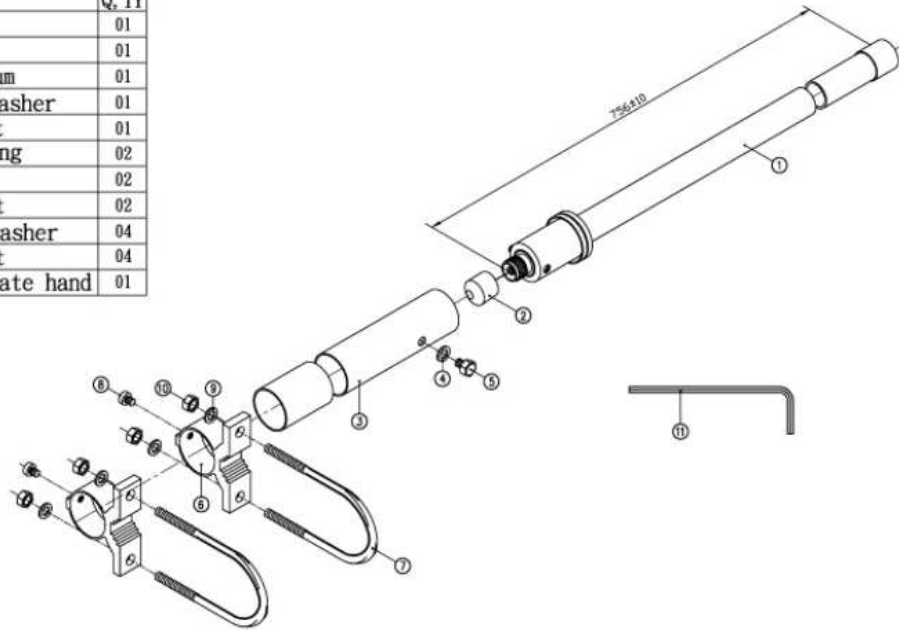


Specifications:

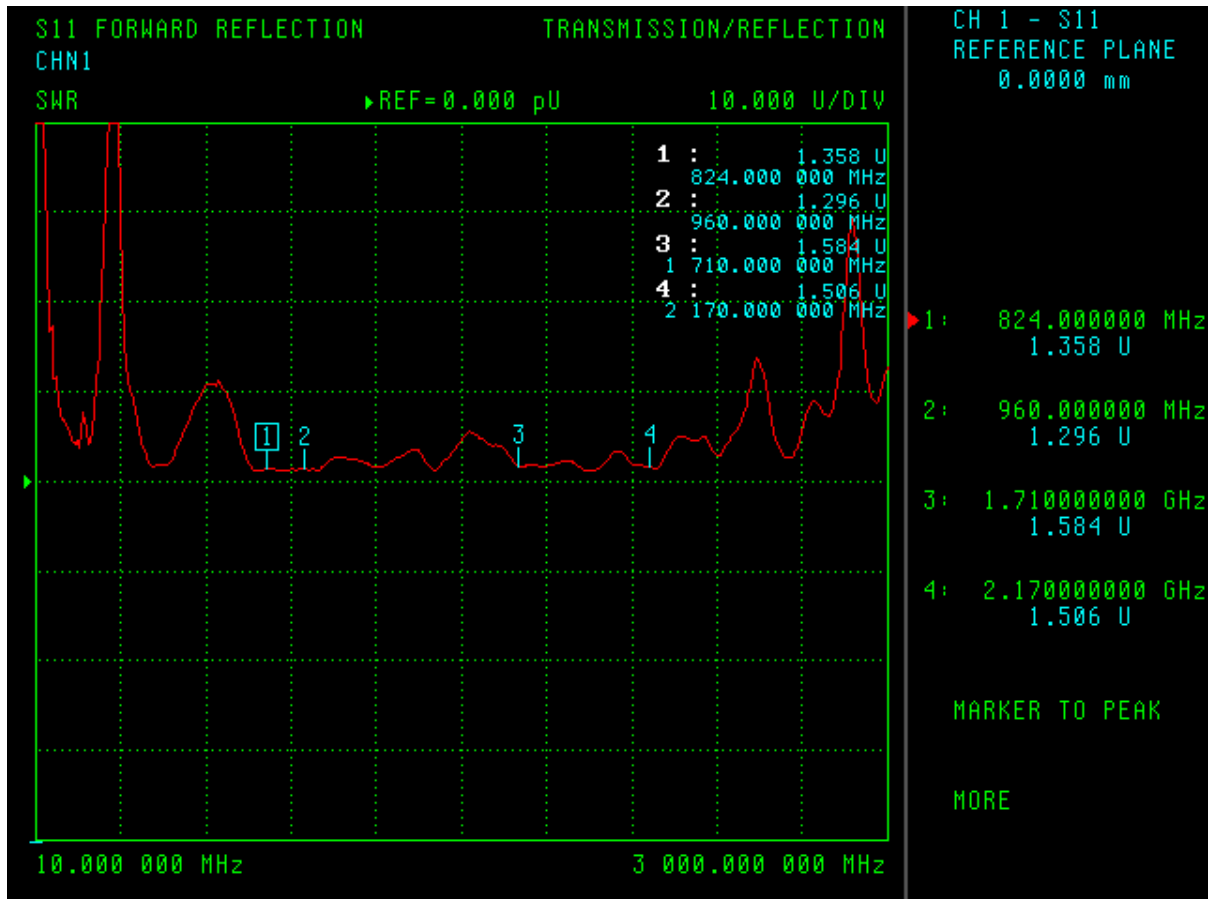
Frequency range:	850/900/1800/1900/2170Mhz
Gain:	7~9dBi
V.S.W.R:	<2.0
Impedence:	50 ohm
Connector:	N Type Female
Dimension:	756mm +/-10 x OD20mm
Weight:	0.76Kg
Polarization :	vertical
Power handling :	50W
Colour :	white
Rated wind velocity :	60m/s
Working Temperature :	-40~60°C
Lightning Protection :	Direct Ground

* This specification is subject to change without prior notice

NO.	NAME	Q. TY
01	Body	01
02	Cap	01
03	Tube aluminium	01
04	Round iron washer	01
05	Hexagonal nut	01
06	Clip retaining	02
07	U-Circlip	02
08	Hexagonal nut	02
09	Round iron washer	04
10	Hexagonal nut	04
11	Hexagonal plate hand	01



Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
					800/900/1800/1900/2170MHz	M/M		20070903
	TOLERANCE	X. XX±0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	$\frac{S}{\nabla}$	APPEARANCE					



S11 FORWARD REFLECTION
CHN1

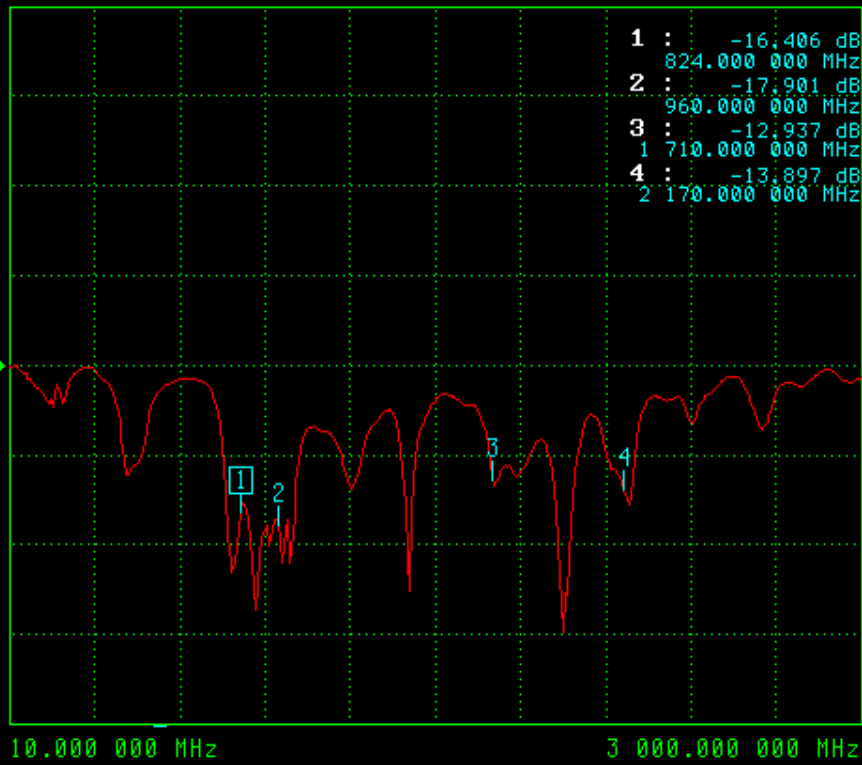
TRANSMISSION/REFLECTION

CH 1 - S11
REFERENCE PLANE
0.0000 mm

LOG MAGNITUDE

REF=0.000 dB

10.000 dB/DIV



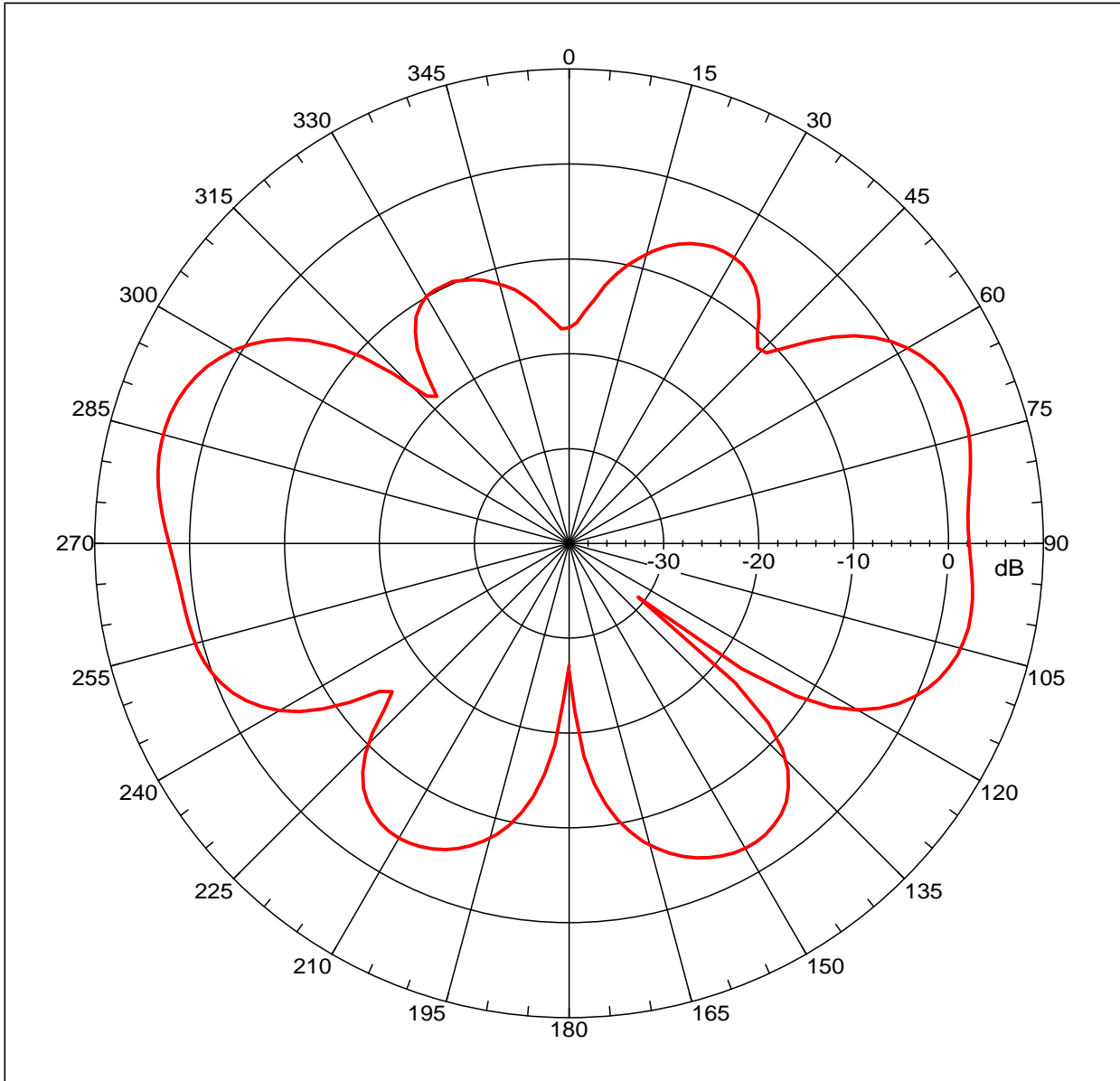
1 : -16.406 dB
824.000 000 MHz
2 : -17.901 dB
960.000 000 MHz
3 : -12.937 dB
1 710.000 000 MHz
4 : -13.897 dB
2 170.000 000 MHz

1: 824.000000 MHz
-16.406 dB
2: 960.000000 MHz
-17.901 dB
3: 1.710000000 GHz
-12.937 dB
4: 2.170000000 GHz
-13.897 dB

MARKER TO PEAK

MORE

Far-field amplitude of GSM-100 800-2170MHZ E-PLANE06.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 4.26758 dBi
 Max far-field (global) = -38.73176 dB, Max far-field (plot) = -38.73181 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -76.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

GSM-100-800-2170MHZ 2007-6-7 E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\steven\MP-51 80MM\YG-16AA
 800-2170MHZ E-PLANE06.nsi
 Measurement date/time: 6/7/2007 10:42:50 AM, Filetype: NSI-97

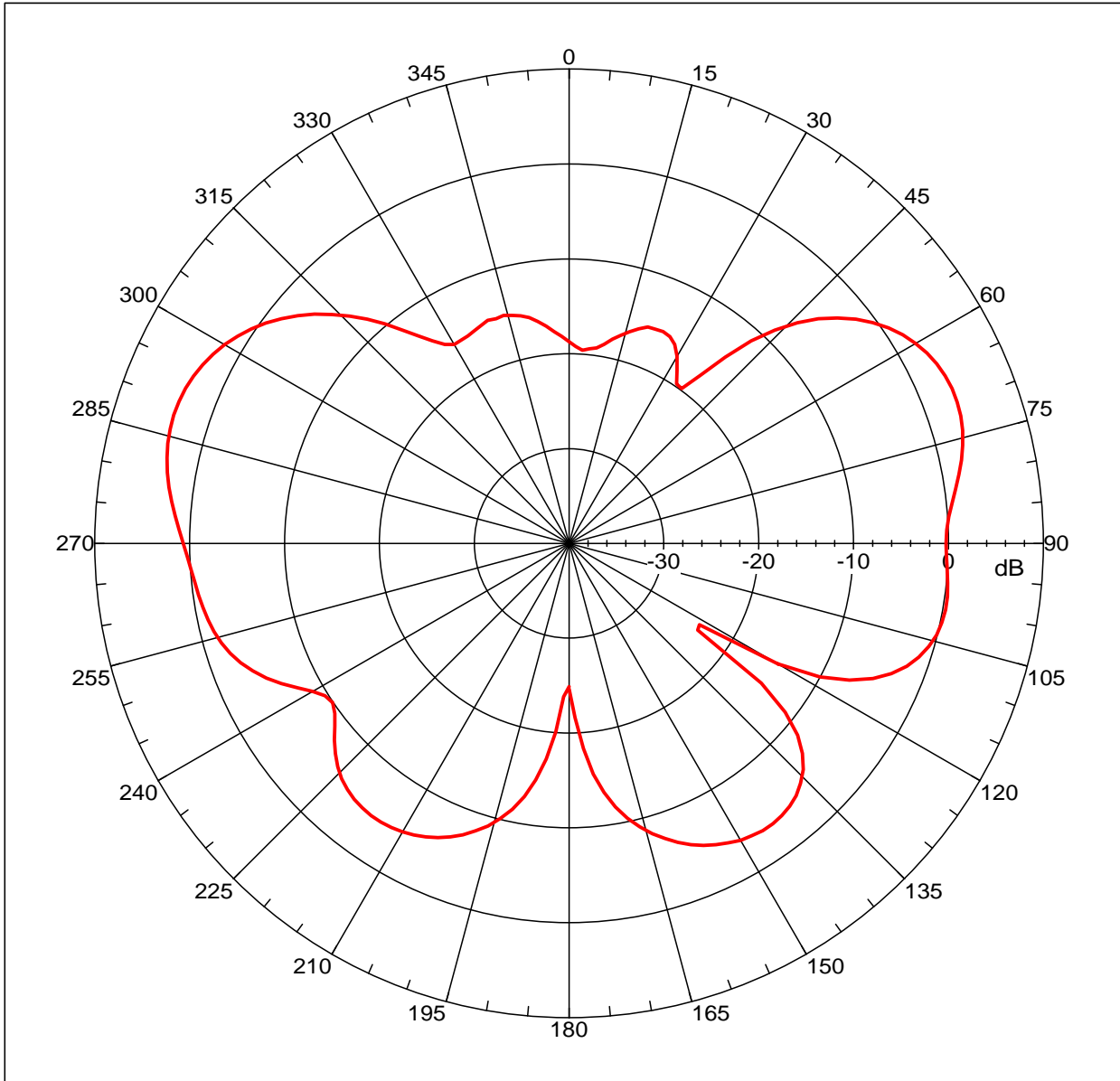
Far-field Cut Analysis:
 Avg value: -3.212 dB
 -3. dB beam width: 35.45 deg
 -6. dB beam width: 59.33 deg
 -10. dB beam width: 69.90 deg
 Left Sidelobe: -8.40 dB at -149.832 deg
 Right Sidelobe: -14.08 dB at -25.140 deg

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 GSM-100 800-2170MHZ E-PLANE06.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 3.7918 dBi
 Max far-field (global) = -36.97603 dB, Max far-field (plot) = -36.97608 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -72.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

GSM-100-800-2170MHZ 2007-6-7 E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\steven\MP-51 80MM\YG-16AA
 800-2170MHZ E-PLANE06.nsi
 Measurement date/time: 6/7/2007 10:42:50 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -4.339 dB
 -3. dB beam width: 32.60 deg
 -6. dB beam width: 56.59 deg
 -10. dB beam width: 71.60 deg
 Left Sidelobe: -8.30 dB at -143.799 deg
 Right Sidelobe: -19.37 dB at 25.140 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

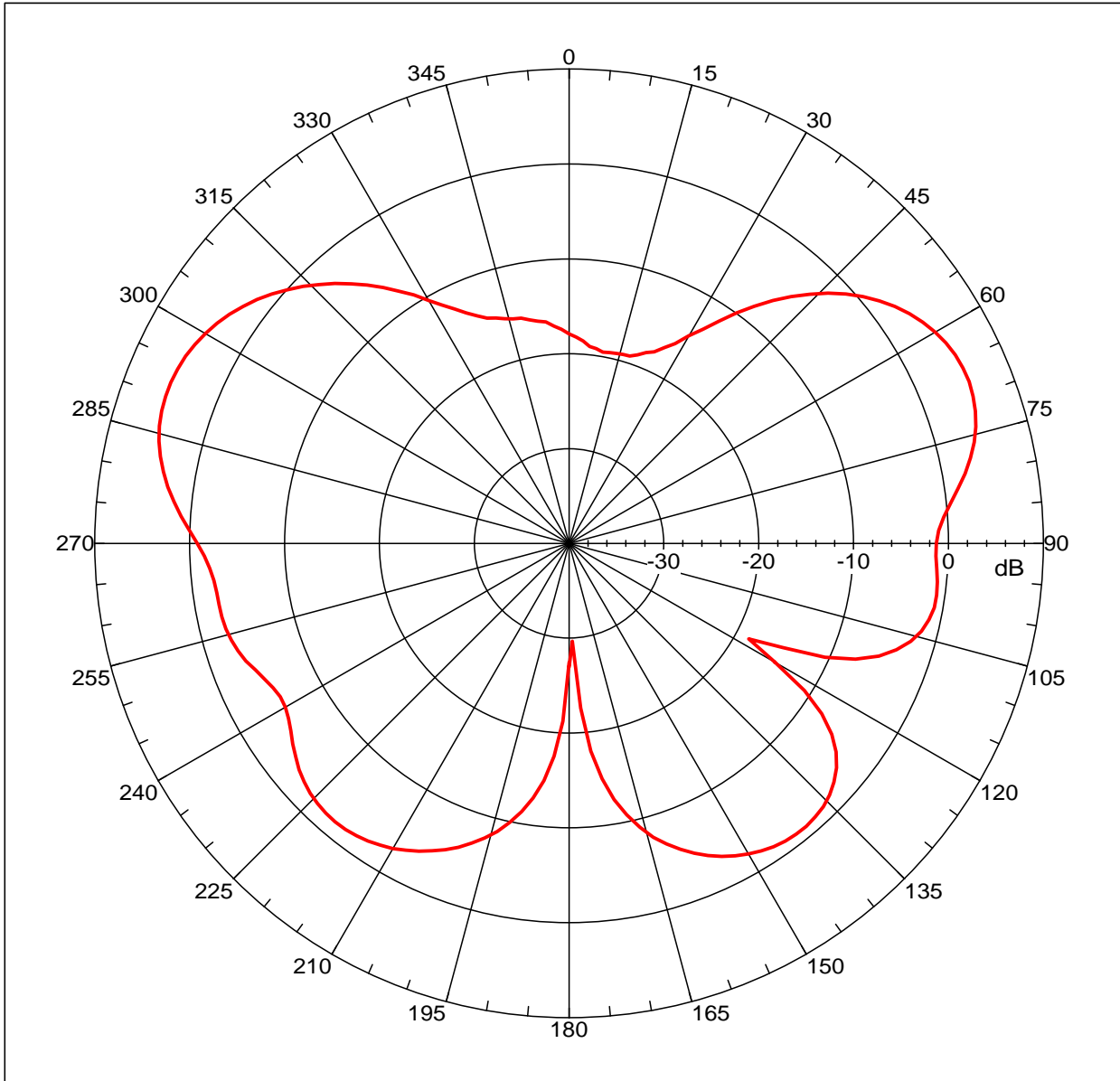
deg

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 GSM-100 800-2170MHZ E-PLANE06.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 5.46746 dBi
 Max far-field (global) = -36.09222 dB, Max far-field (plot) = -36.09225 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 67.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

GSM-100-800-2170MHZ 2007-6-7 E-PLANE

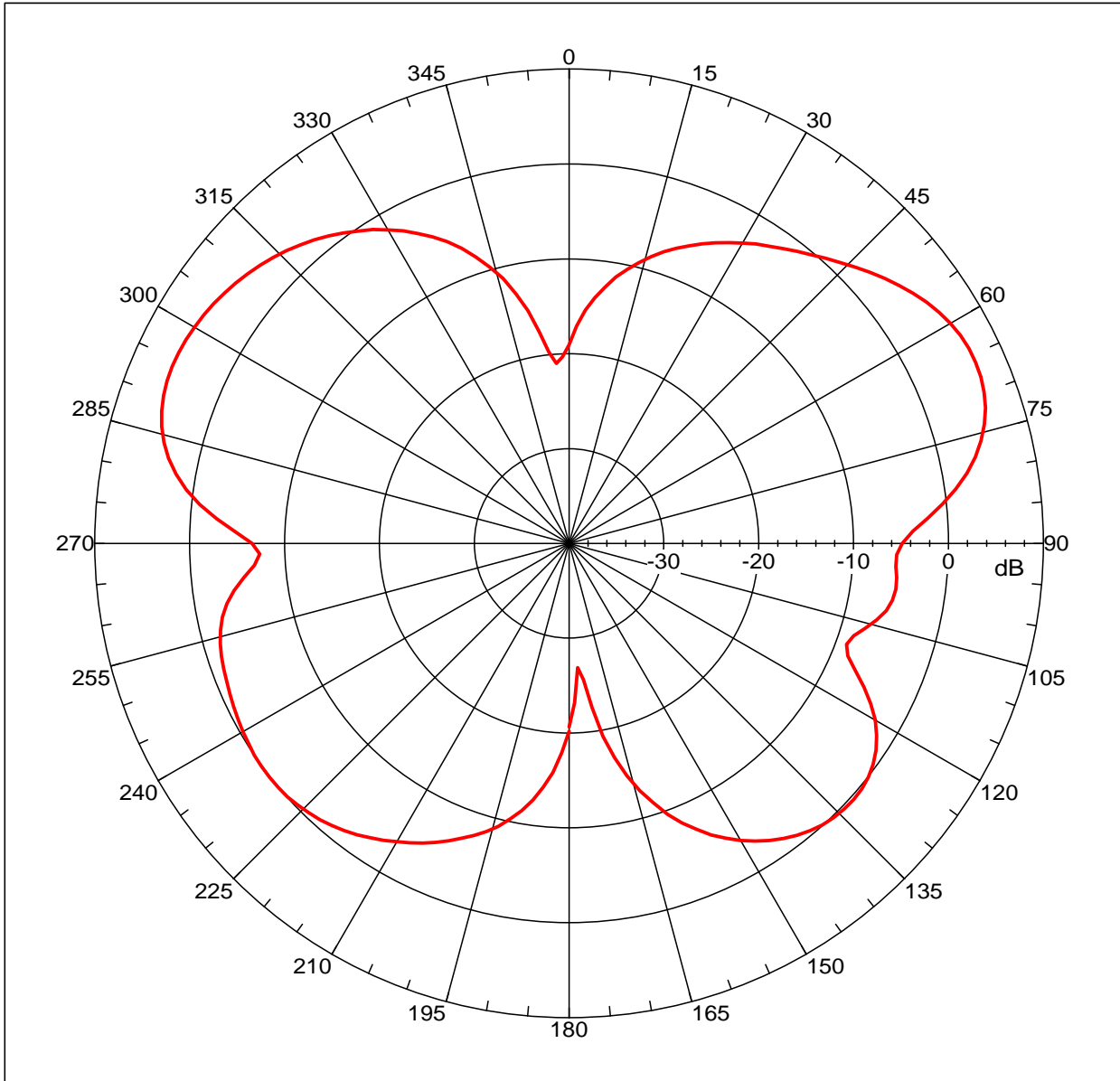
NSI2000 V4.0.124, Filename: C:\nsi2000\steven\MP-51 80MM\YG-16AA
 800-2170MHZ E-PLANE06.nsi
 Measurement date/time: 6/7/2007 10:42:50 AM, Filetype: NSI-97

Far-field Cut Analysis:
 Avg value: -2.919 dB
 -3. dB beam width: 25.93 deg
 -6. dB beam width: 38.27 deg
 -10. dB beam width: 66.83 deg
 Left Sidelobe: -0.20 dB at -67.374 deg
 Right Sidelobe: -6.55 dB at 141.788 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 GSM-100 800-2170MHZ E-PLANE06.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 6.91288 dBi
 Max far-field (global) = -35.71679 dB, Max far-field (plot) = -35.71684 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 66.000 deg, Vpeak at: 0.000 deg
 Plot centering: On

GSM-100-800-2170MHZ 2007-6-7 E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\steven\MP-51 80MM\YG-16AA 800-2170MHZ E-PLANE06.nsi

Measurement date/time: 6/7/2007 10:42:50 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -1.462 dB

-3. dB beam width: 26.53 deg

-6. dB beam width: 39.15 deg

-10. dB beam width: 56.41 deg

Left Sidelobe: -1.13 dB at -63.352 deg

Right Sidelobe: -6.54 dB at 133.743 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

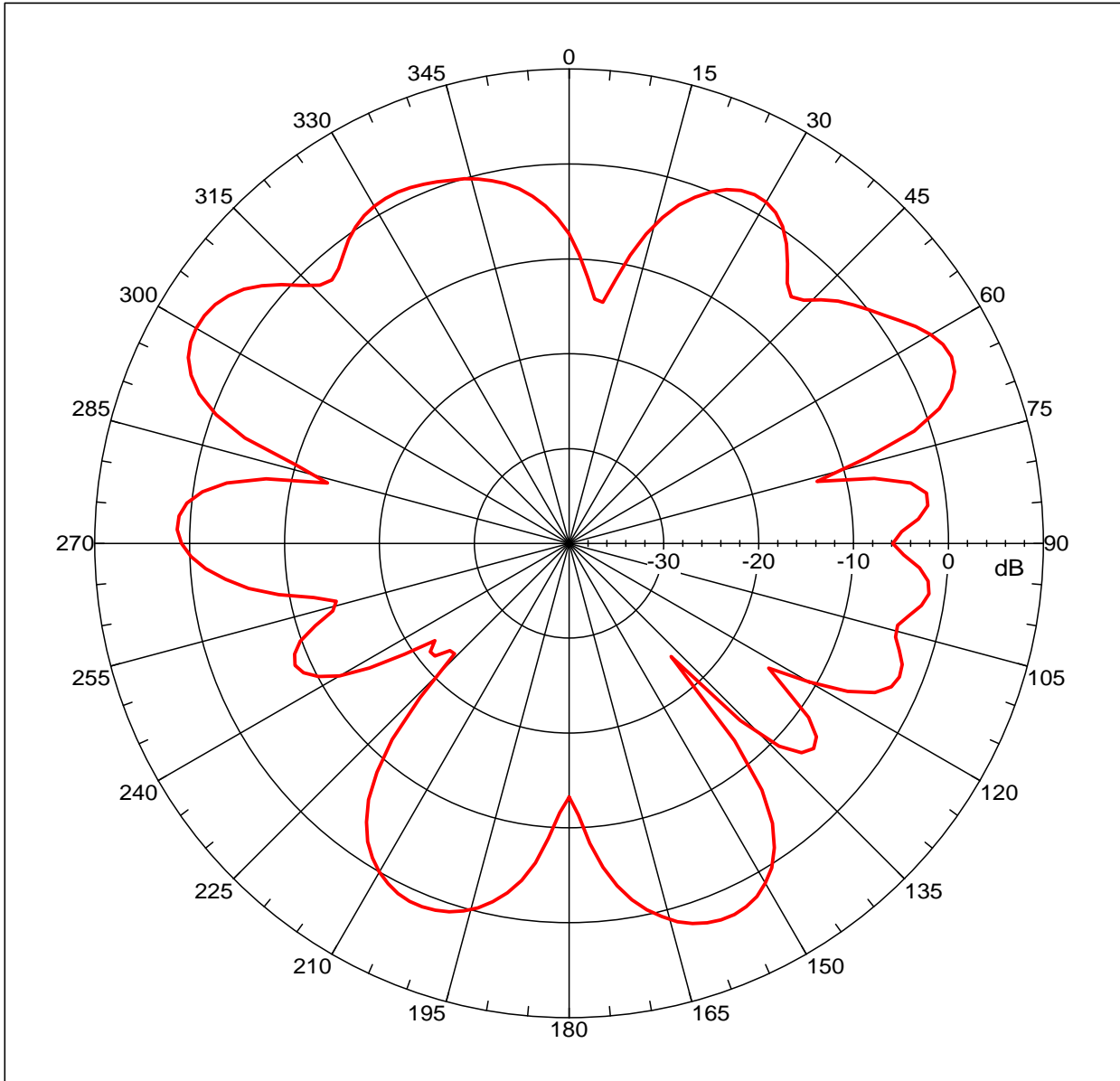
Elevation (deg)

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 GSM-100 800-2170MHZ E-PLANE06.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 5.35921 dBi
 Max far-field (global) = -40.00541 dB, Max far-field (plot) = -40.00551 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -60.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

GSM-100-800-2170MHZ 2007-6-7 E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\steven\MP-51 80MM\YG-16AA 800-2170MHZ E-PLANE06.nsi

Measurement date/time: 6/7/2007 10:42:50 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -2.171 dB

-3. dB beam width: 17.51 deg

-6. dB beam width: 23.97 deg

-10. dB beam width: 68.97 deg

Left Sidelobe: -4.05 dB at -87.486 deg

Right Sidelobe: -4.17 dB at -25.140 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

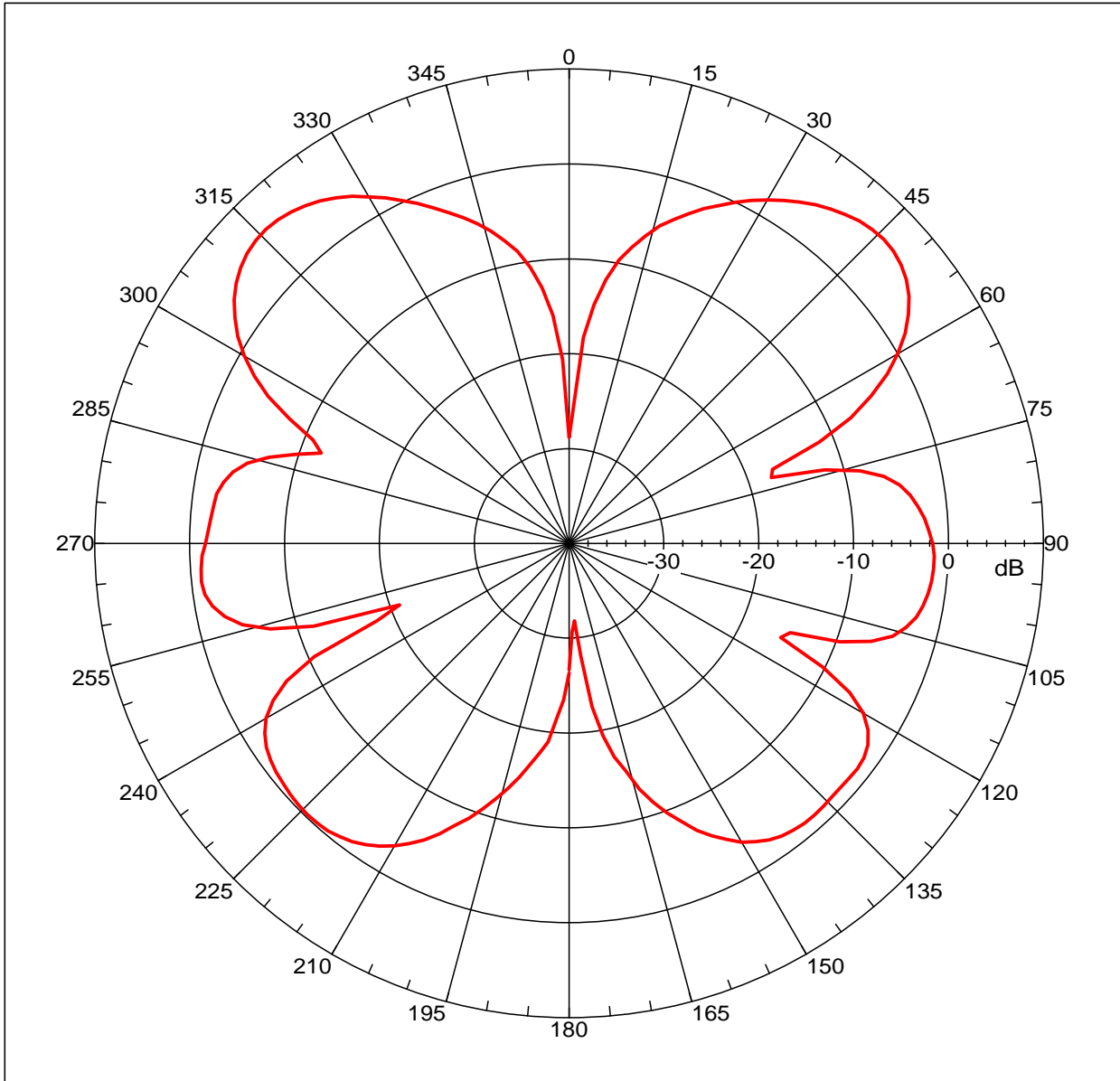
Elevation (deg)

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 GSM-100 800-2170MHZ E-PLANE06.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 6.12125 dBi
 Max far-field (global) = -40.94657 dB, Max far-field (plot) =
 -40.94667 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 45.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

GSM-100-800-2170MHZ 2007-6-7 E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\steven\MP-51 80MM\YG-16AA
 800-2170MHZ E-PLANE06.nsi

Measurement date/time: 6/7/2007 10:42:50 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -2.567 dB

-3. dB beam width: 22.90 deg

-6. dB beam width: 33.81 deg

-10. dB beam width: 45.32 deg

Left Sidelobe: -0.12 dB at -43.240 deg

Right Sidelobe: -7.60 dB at 93.520 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

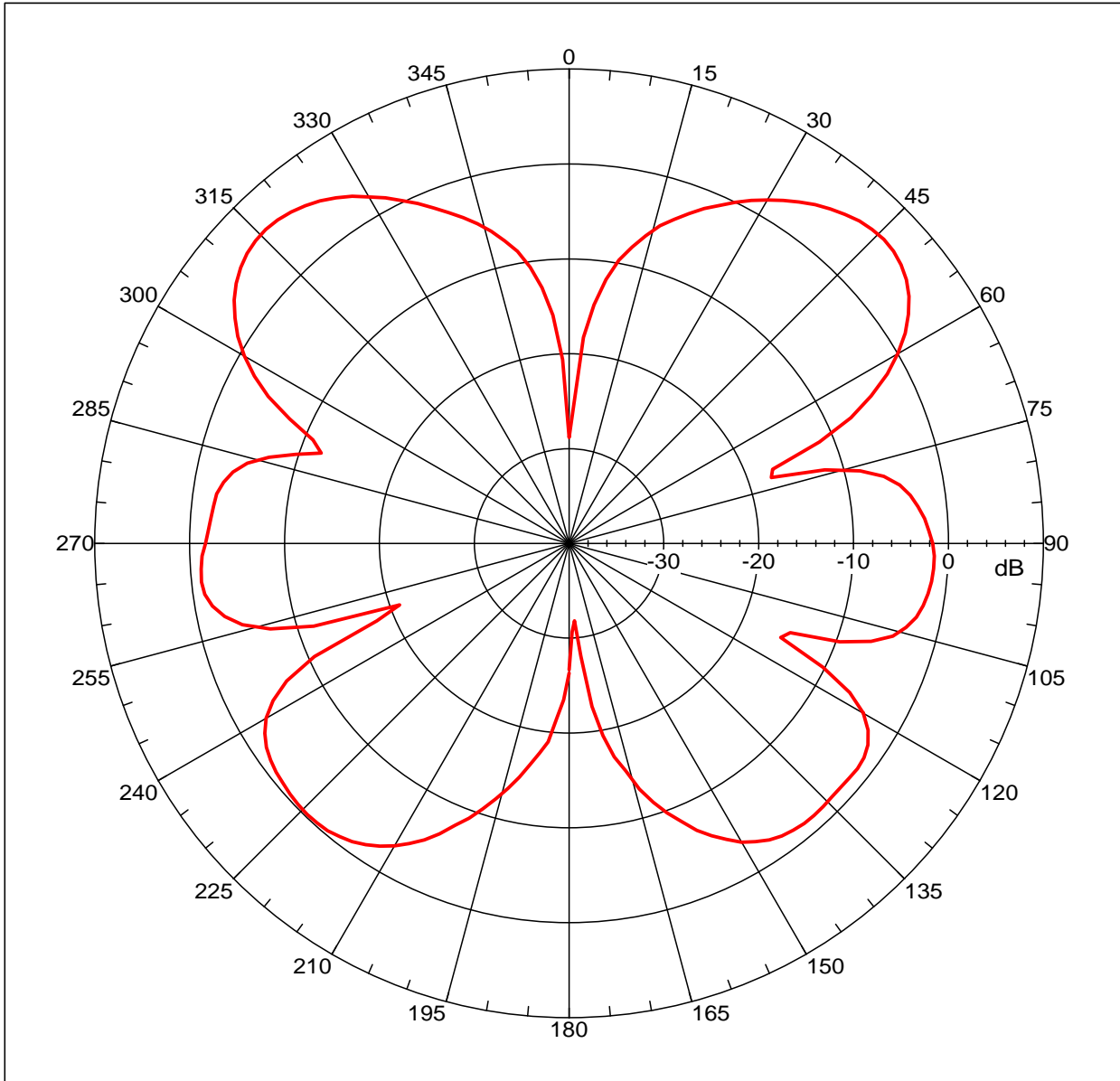
Elevation (deg)

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 GSM-100 800-2170MHZ E-PLANE06.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 6.12125 dBi
 Max far-field (global) = -40.94657 dB, Max far-field (plot) = -40.94667 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: 45.99999 deg, Vpeak at: 0.000 deg
 Plot centering: On

GSM-100-800-2170MHZ 2007-6-7 E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\steven\MP-51 80MM\YG-16AA 800-2170MHZ E-PLANE06.nsi

Measurement date/time: 6/7/2007 10:42:50 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -2.567 dB

-3. dB beam width: 22.90 deg

-6. dB beam width: 33.81 deg

-10. dB beam width: 45.32 deg

Left Sidelobe: -0.12 dB at -43.240 deg

Right Sidelobe: -7.60 dB at 93.520 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

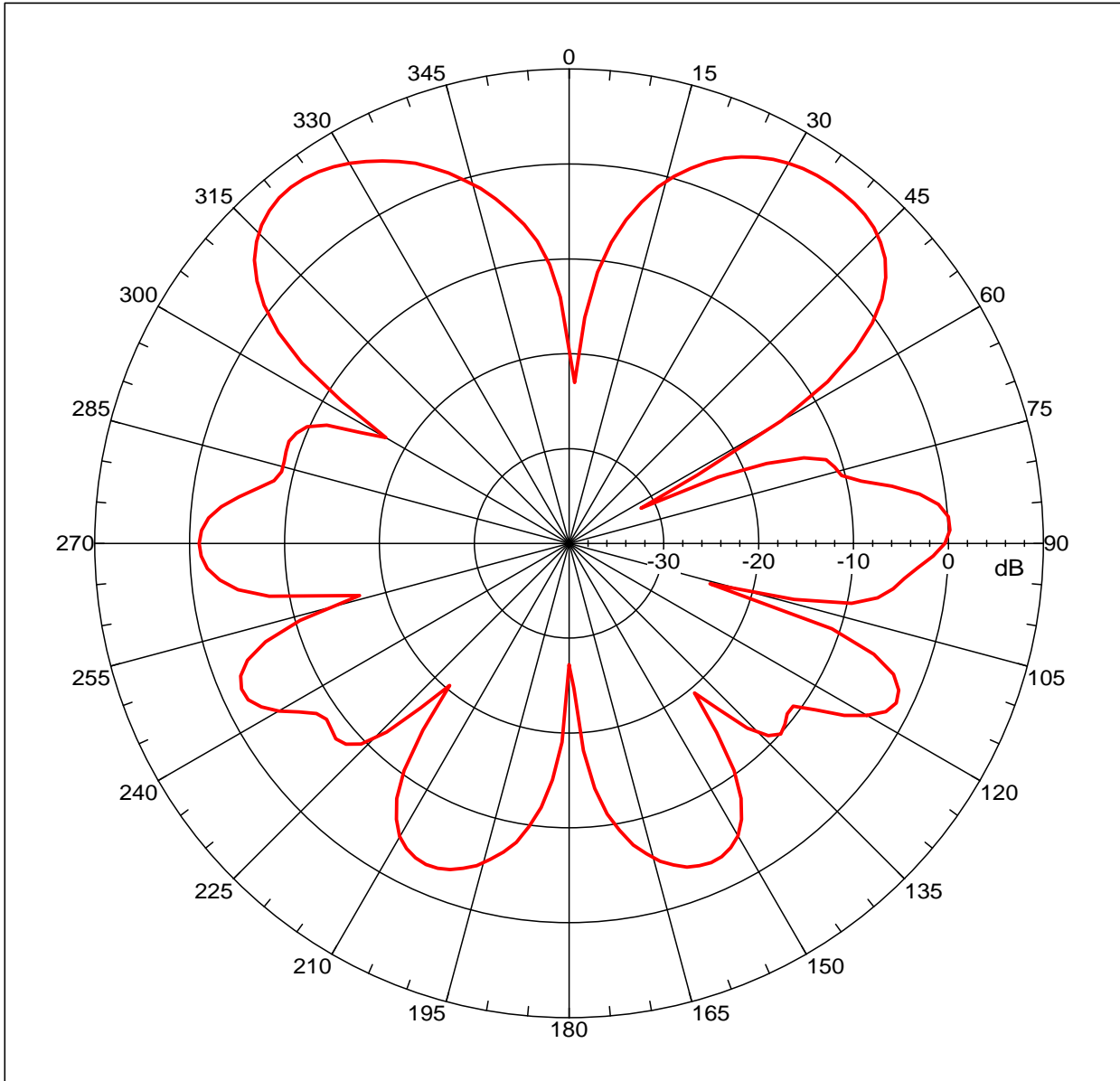
Elevation (deg)

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 GSM-100 800-2170MHZ E-PLANE06.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 7.61791 dBi
 Max far-field (global) = -40.02376 dB, Max far-field (plot) =
 -40.02383 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -38.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

GSM-100-800-2170MHZ 2007-6-7 E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\steven\MP-51 80MM\YG-16AA
 800-2170MHZ E-PLANE06.nsi
 Measurement date/time: 6/7/2007 10:42:50 AM, Filetype: NSI-97

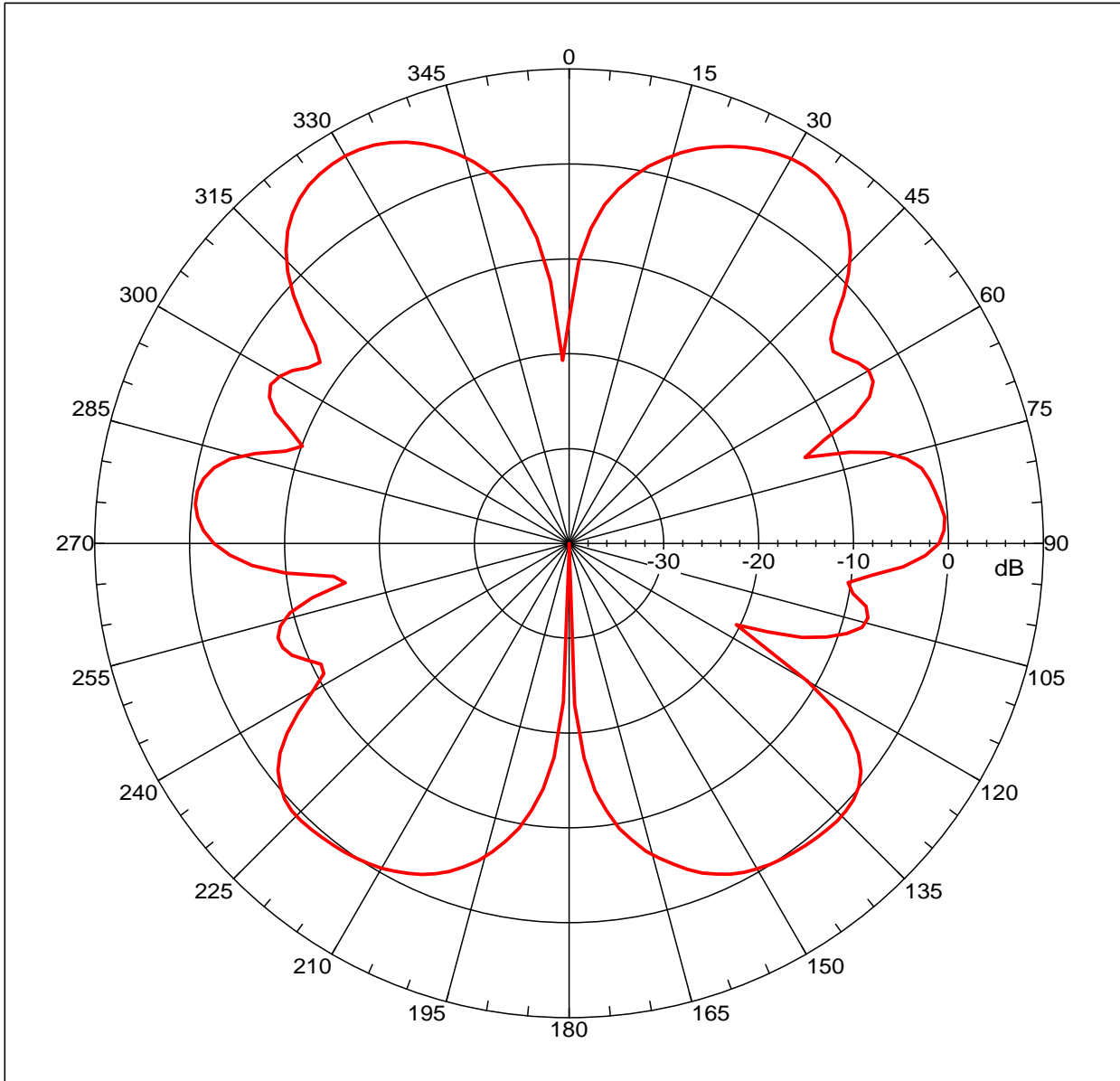
Far-field Cut Analysis:
 Avg value: -2.588 dB
 -3. dB beam width: 22.68 deg
 -6. dB beam width: 32.35 deg
 -10. dB beam width: 41.64 deg
 Left Sidelobe: -16.22 dB at -69.385 deg
 Right Sidelobe: -0.75 dB at 37.207 deg

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 GSM-100 800-2170MHZ E-PLANE06.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 7.14952 dBi
 Max far-field (global) = -40.32984 dB, Max far-field (plot) = -40.32989 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -30.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

GSM-100-800-2170MHZ 2007-6-7 E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\steven\MP-51 80MM\YG-16AA 800-2170MHZ E-PLANE06.nsi

Measurement date/time: 6/7/2007 10:42:50 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -1.583 dB

-3. dB beam width: 23.69 deg

-6. dB beam width: 32.59 deg

-10. dB beam width: 40.46 deg

Left Sidelobe: -11.53 dB at -61.341 deg

Right Sidelobe: -0.27 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

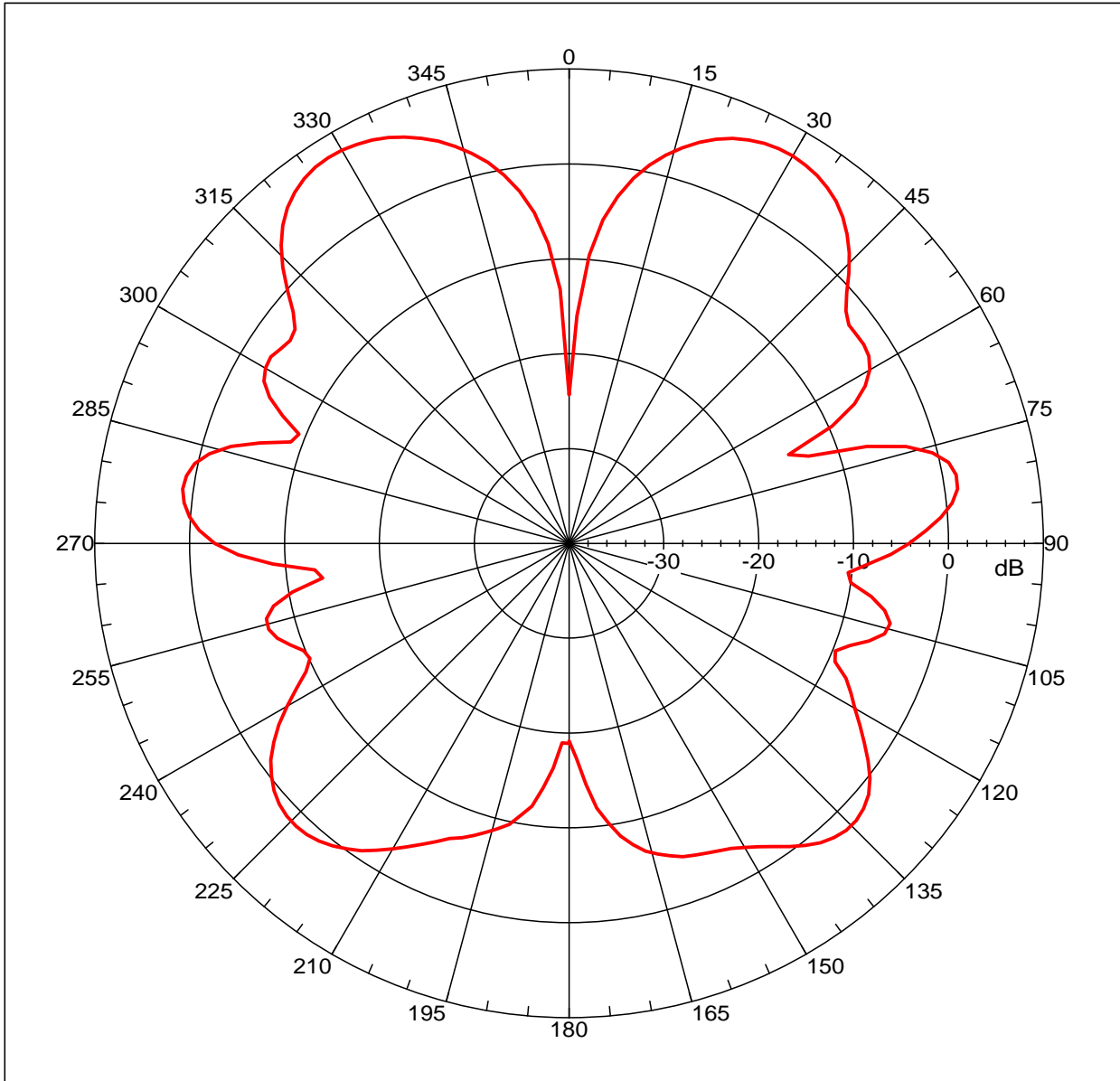
Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 10

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

Far-field amplitude of GSM-100 800-2170MHZ E-PLANE06.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 7.90368 dBi
 Max far-field (global) = -39.67872 dB, Max far-field (plot) = -39.67876 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -32.00001 deg, Vpeak at: 0.000 deg
 Plot centering: On

GSM-100-800-2170MHZ 2007-6-7 E-PLANE

NSI2000 V4.0.124, Filename: C:\nsi2000\steven\MP-51 80MM\YG-16AA 800-2170MHZ E-PLANE06.nsi

Measurement date/time: 6/7/2007 10:42:50 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: -1.086 dB
 -3. dB beam width: 23.54 deg
 -6. dB beam width: 32.89 deg
 -10. dB beam width: 41.84 deg
 Left Sidelobe: -6.79 dB at -81.453 deg
 Right Sidelobe: -0.75 dB at 31.173 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