

# 2.4G Antenna

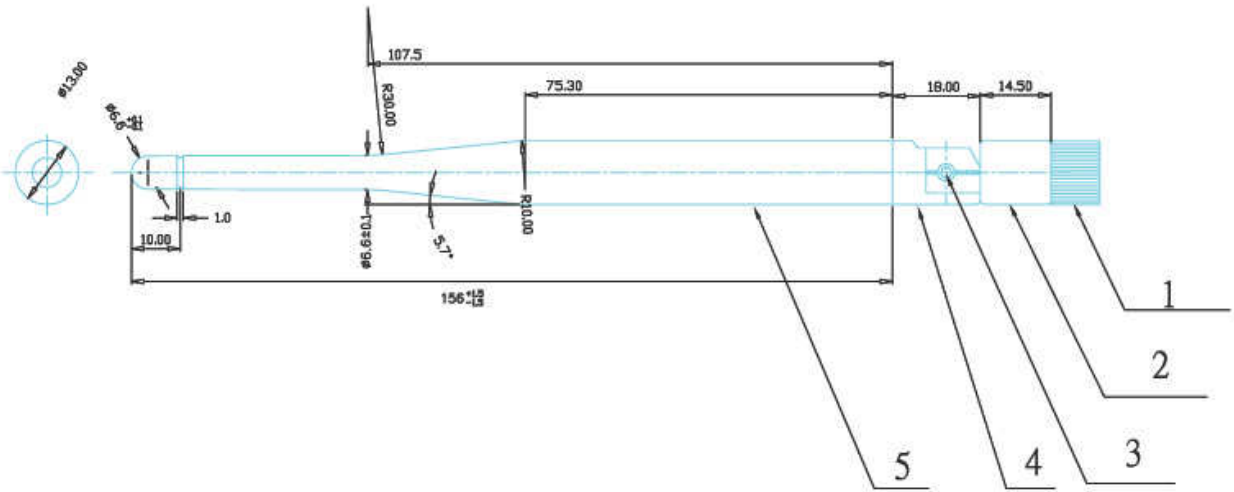
**MODEL: TH-97**



## Specifications:

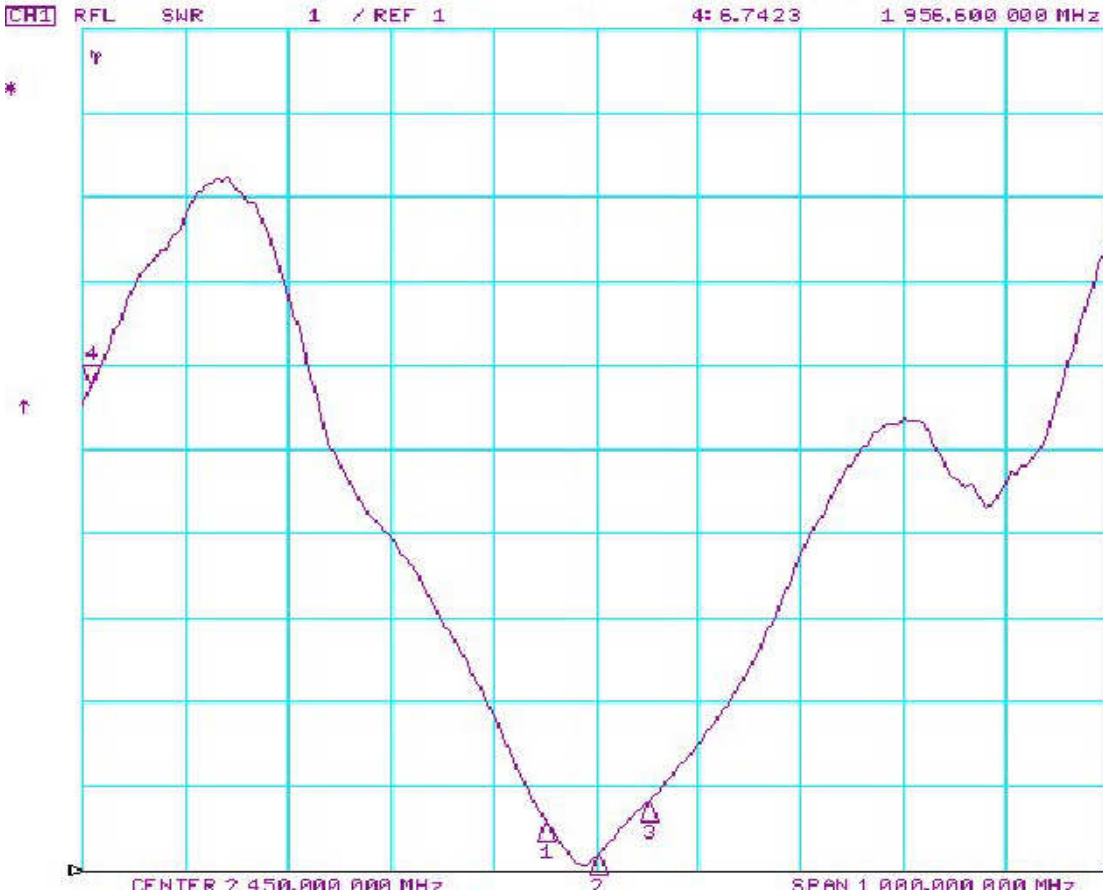
<b>1.</b>	<b>WORKING FREQUENCY</b>	<b>2.4~2.5GHz</b>
<b>2.</b>	<b>ELECTRIC WAVE</b>	<b>1/2 <math>\lambda</math> : DIPOLE</b>
<b>3.</b>	<b>IMPEDANCE</b>	<b>50 Ohm , Nominal</b>
<b>4.</b>	<b>V.S.W.R</b>	<b>2.0:1</b>
<b>5.</b>	<b>GAIN</b>	<b>5.0 dBi</b>
<b>6</b>	<b>Connector</b>	<b>SMA(M) / RSMA</b>
<b>7.</b>	<b>RADIATION</b>	<b>Omni</b>
<b>8.</b>	<b>POLARIZATION</b>	<b>VERTICAL</b>
<b>9.</b>	<b>POWER HANDLING</b>	<b>1 W MAX</b>
<b>10.</b>	<b>OPERATING TEMPERATURE</b>	<b>-20°C -- +50°C</b>

This specification is subject to change without prior notice

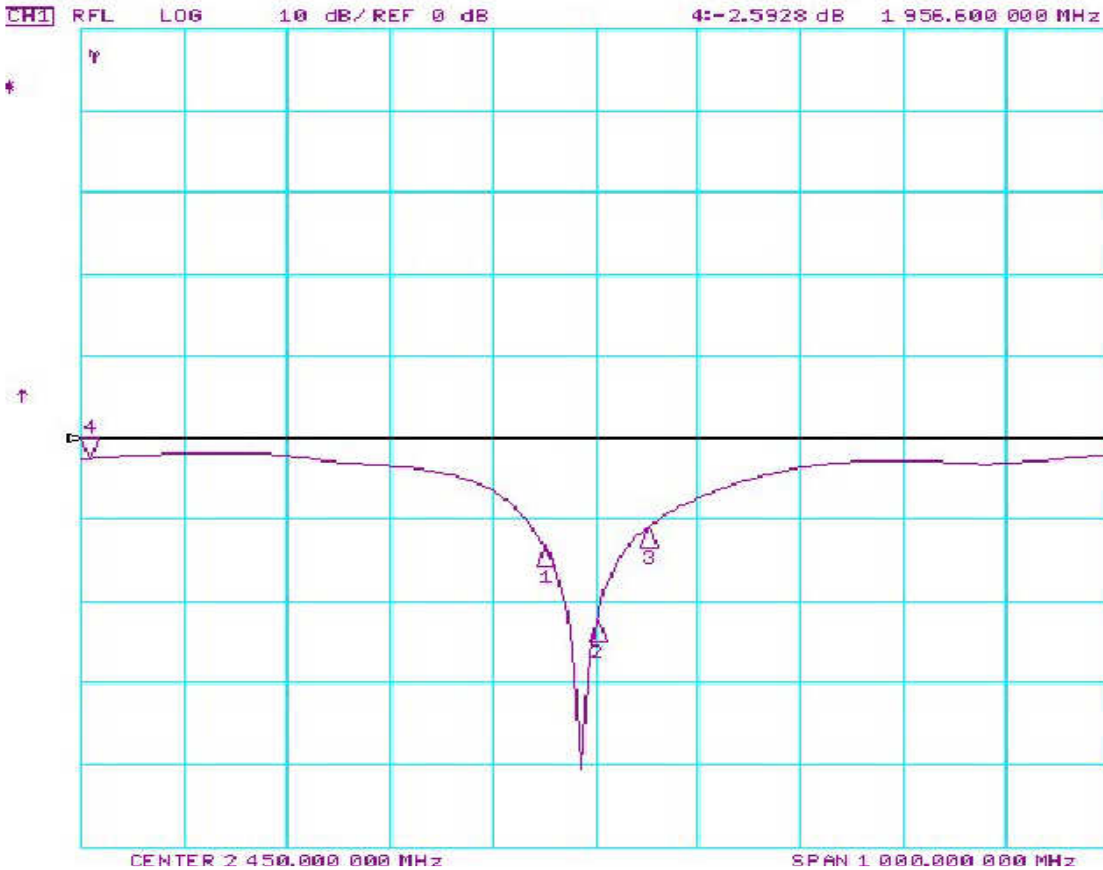


5	ANT. COVER	TPU	BALCK							
4	BASE-I	PC+ABS	BALCK							
3	ROTARY SHAFT	BRASS	CR-BLACK							
2	BASE-II	PC+ABS	BALCK							
1	BNC CONN. P-P	BRASS	CR-BLACK							
ITEM	DESCRIPTION	MAT'L	FINISH	ITEM No.	TITLE : FOR	DWG NO. :	TOLERANCE : AS SPEC.	FINISH : SEE TABLE	DATE : 2007.11.02	UNIT : MM
					MATERIAL : SEE TABLE	ISSUED : HLANG	DRAWN : BILL	CHECKED : LOUIS		

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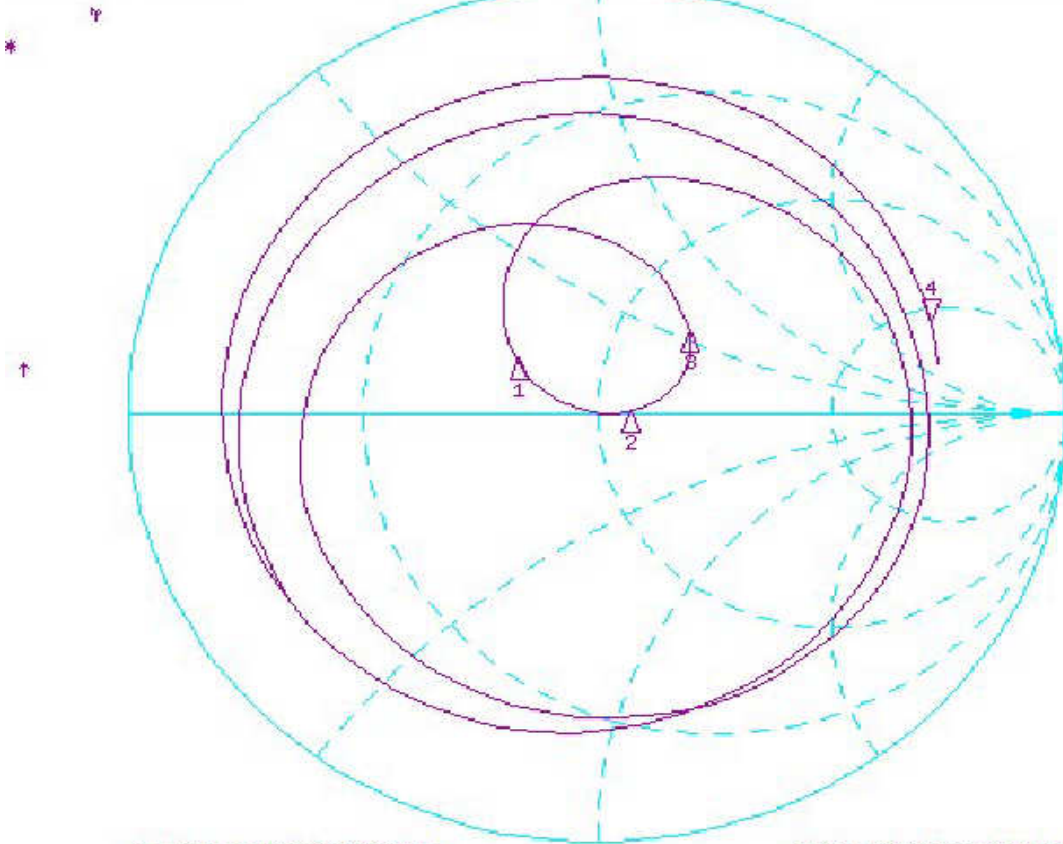


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CH1 RFL 1 U FS 4: 173.26  $\Omega$  164.60  $\Omega$  13.389 nH 1 956.600 000 MHz



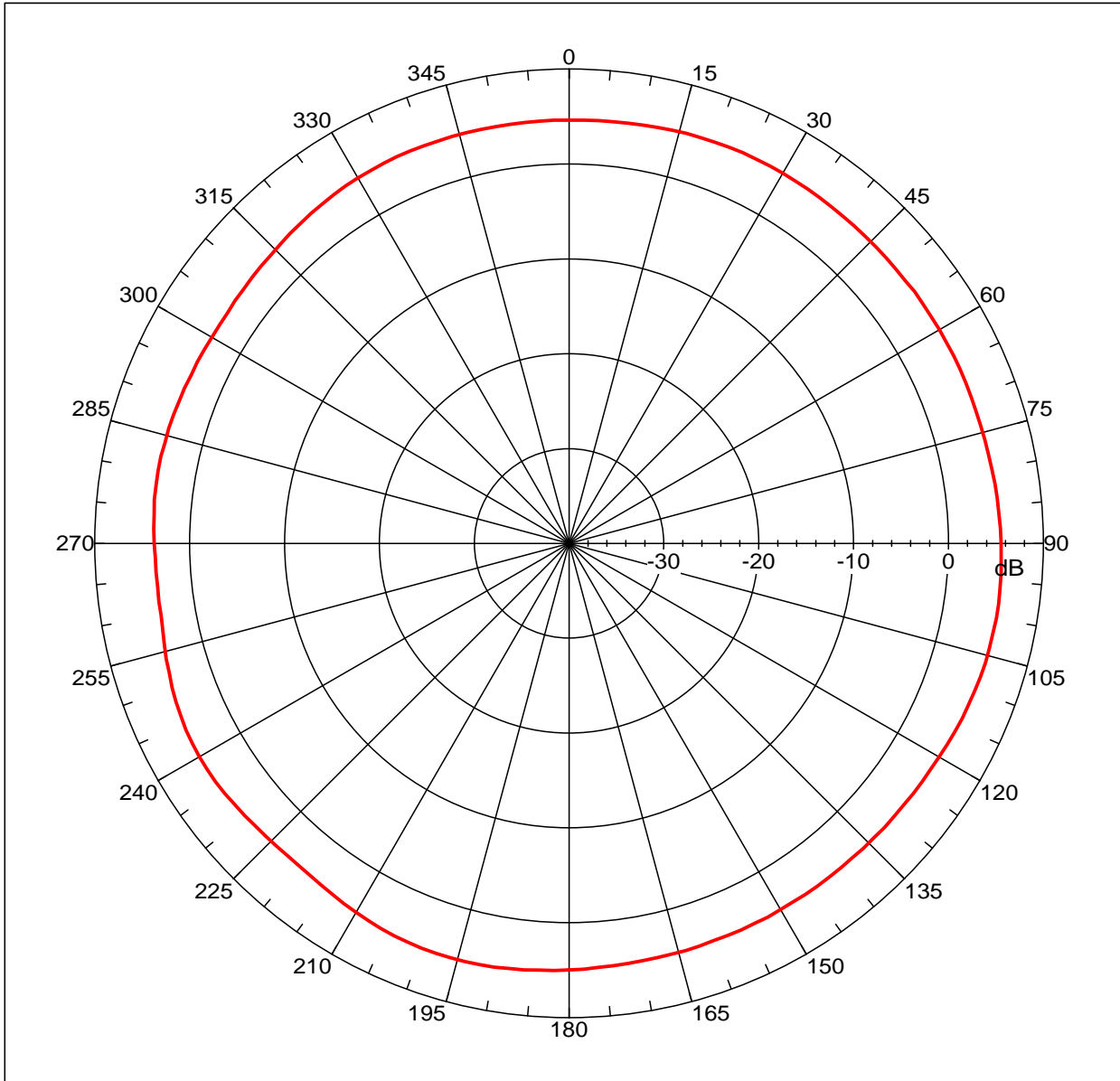
CH1 Markers

- 1: 34.563  $\Omega$   
8.9336  $\Omega$   
2.40000 GHz
- 2: 57.162  $\Omega$   
0.0527  $\Omega$   
2.45000 GHz
- 3: 67.621  $\Omega$   
27.914  $\Omega$   
2.50000 GHz

CENTER 2 450.000 000 MHz

SPAN 1 000.000 000 MHz

# Far-field amplitude of TH-97TEST-1 2.4GHz-H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg  
 Gain = 5.73024 dBi  
 Max far-field (global) = -43.32628 dB, Max far-field (plot) =  
 -43.32631 dB  
 Normalization: Reference, Network offset = 0.000 dB  
 Hpeak at: 97.99999 deg, Vpeak at: 0.000 deg  
 Plot centering: On

1206TEST-1 2.4GHz-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\2.  
 4EA-292A\1206TEST-1 2.4GHz-H.nsi  
 Measurement date/time: 12/6/2006 9:22:00 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: 4.705 dB

-3. dB beam width: Not Found

-6. dB beam width: Not Found

-10. dB beam width: Not Found

Left Sidelobe: -0.74 dB at -119.665 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

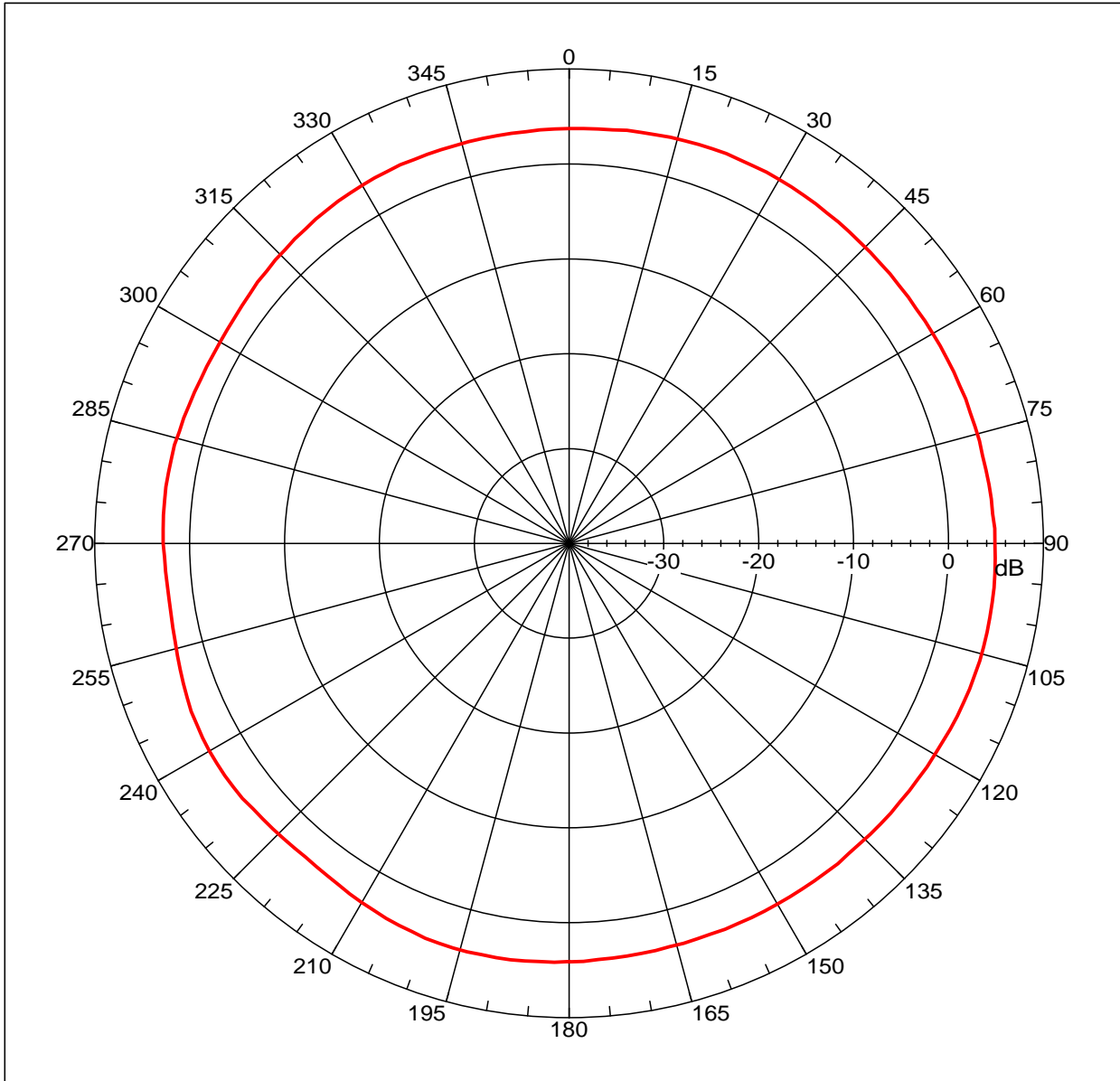
Elevation (deg)

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 TH-97TEST-1 2.4GHz-H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg  
 Gain = 5.04283 dBi  
 Max far-field (global) = -44.58636 dB, Max far-field (plot) = -44.58636 dB  
 Normalization: Reference, Network offset = 0.000 dB  
 Hpeak at: 102.000 deg, Vpeak at: 0.000 deg  
 Plot centering: On

1206TEST-1 2.4GHz-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\2.4EA-292A\1206TEST-1 2.4GHz-H.nsi  
 Measurement date/time: 12/6/2006 9:22:00 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: 3.845 dB

-3. dB beam width: Not Found

-6. dB beam width: Not Found

-10. dB beam width: Not Found

Left Sidelobe: -1.26 dB at -119.665 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

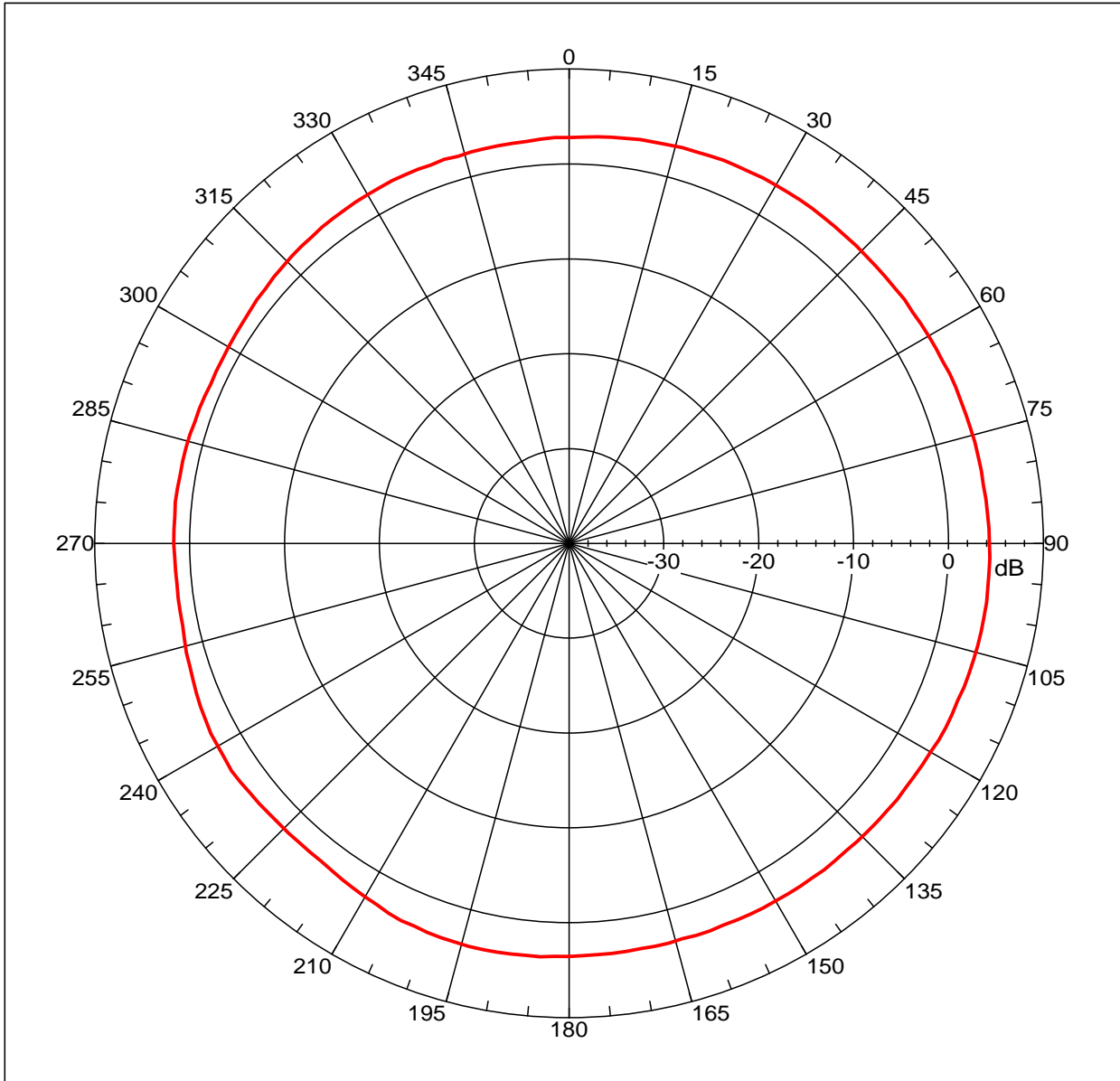
Elevation (deg)

Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 3

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

# Far-field amplitude of TH-97TEST-1 2.4GHz-H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg  
 Gain = 4.44452 dBi  
 Max far-field (global) = -45.75248 dB, Max far-field (plot) = -45.75251 dB  
 Normalization: Reference, Network offset = 0.000 dB  
 Hpeak at: 97.99999 deg, Vpeak at: 0.000 deg  
 Plot centering: On

1206TEST-1 2.4GHz-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\2.4EA-292A\1206TEST-1 2.4GHz-H.nsi  
 Measurement date/time: 12/6/2006 9:22:00 AM, Filetype: NSI-97

Far-field Cut Analysis:

Avg value: 3.104 dB  
 -3. dB beam width: Not Found  
 -6. dB beam width: Not Found  
 -10. dB beam width: Not Found  
 Left Sidelobe: -1.70 dB at -117.654 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
3	2.500 GHz	Azimuth	Elevation	Single-pol