4G GSM / LTE / Wifi Gain Antenna

ANT-M4G3-SMA

Features

- Frequency Range
  - 690-960
  - 1710-2170
  - 2400-2700MHz
- Omni Directional 3 dBi Gain
- Rugged plastic finish IP65 Rated.
- Wall Mount Bracket
- 50ohm Impedance
- 3m RG58U with SMA Male
- Vertical Polarization
- V.S.W.R ≤2.5
- 270mm Long
- Operating Temp –30^{0}C to +70^{0}C

Applications

- 4G / LTE Applications
- GSM Applications
- WiFi

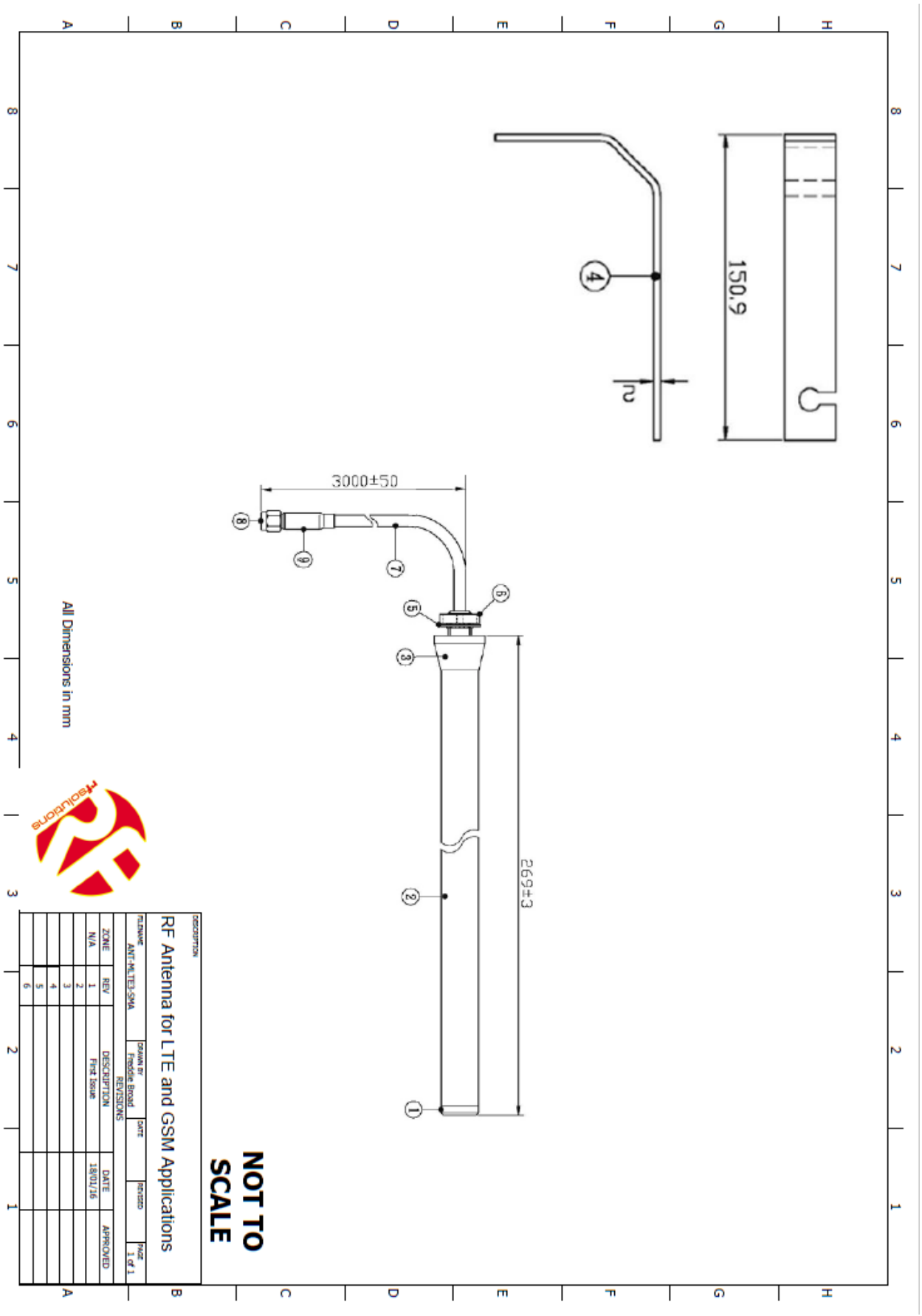
Description

A wall mount LTE and GSM antenna supplied with a 3m RG58U cable and male SMA connector. This ready to operate antenna required no tuning and provides optimum range and reliability to your application.

Ordering Information

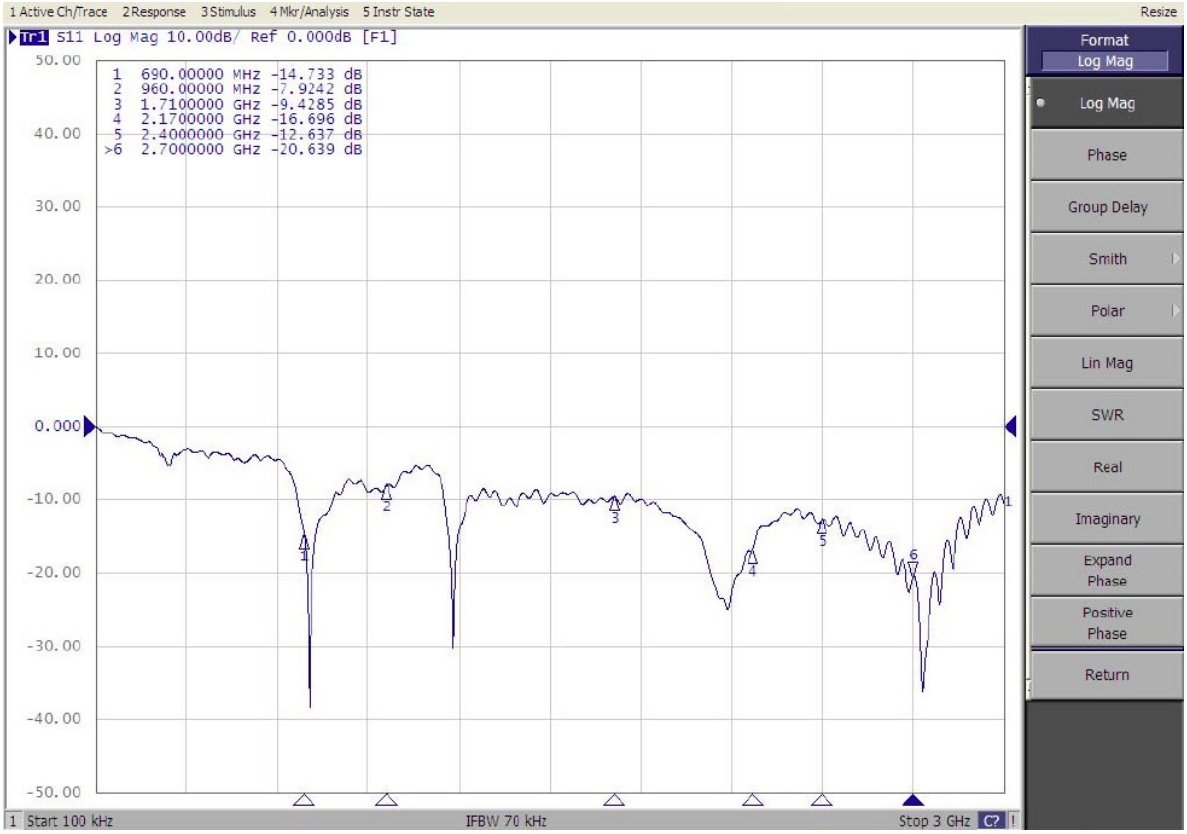
Part No	Description
ANT-M4G3-SMA	4G LTE/GSM Outside antenna (IP65 Rated) with SMA Male Connector

Mechanical Drawing

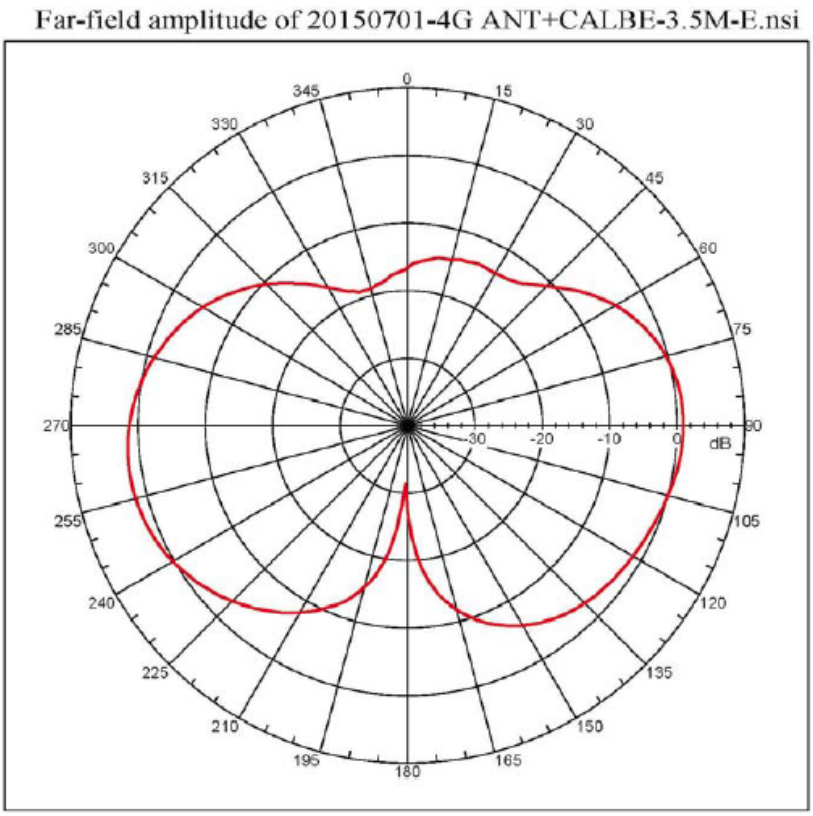


V.S.W.R Test Report

S11 Test Report

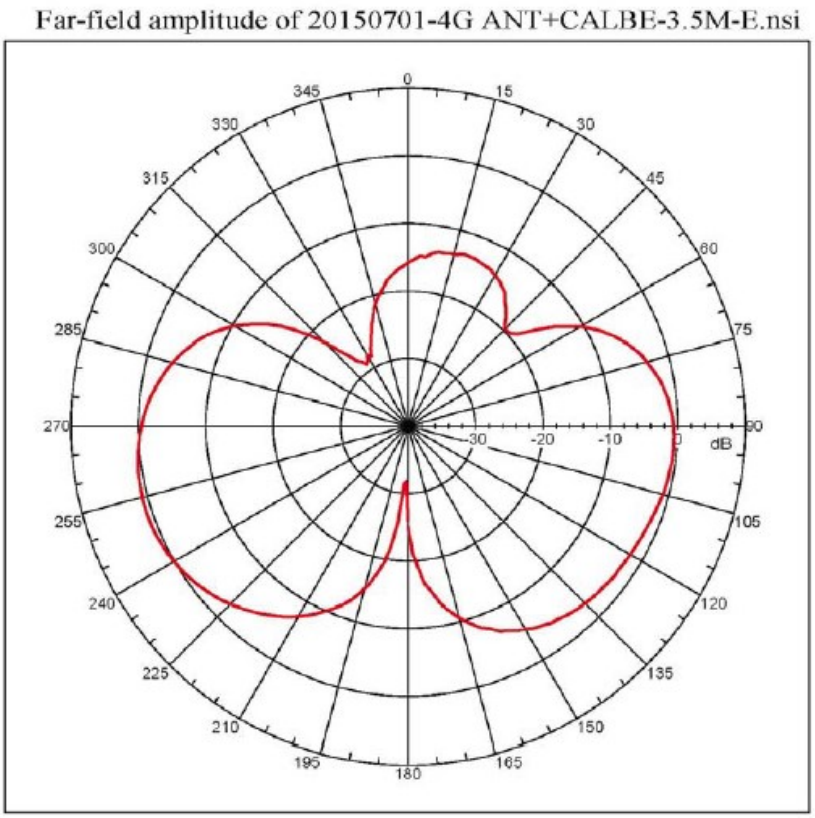


2D Pattern—E Plane 824MHz: 1.81917 dBi



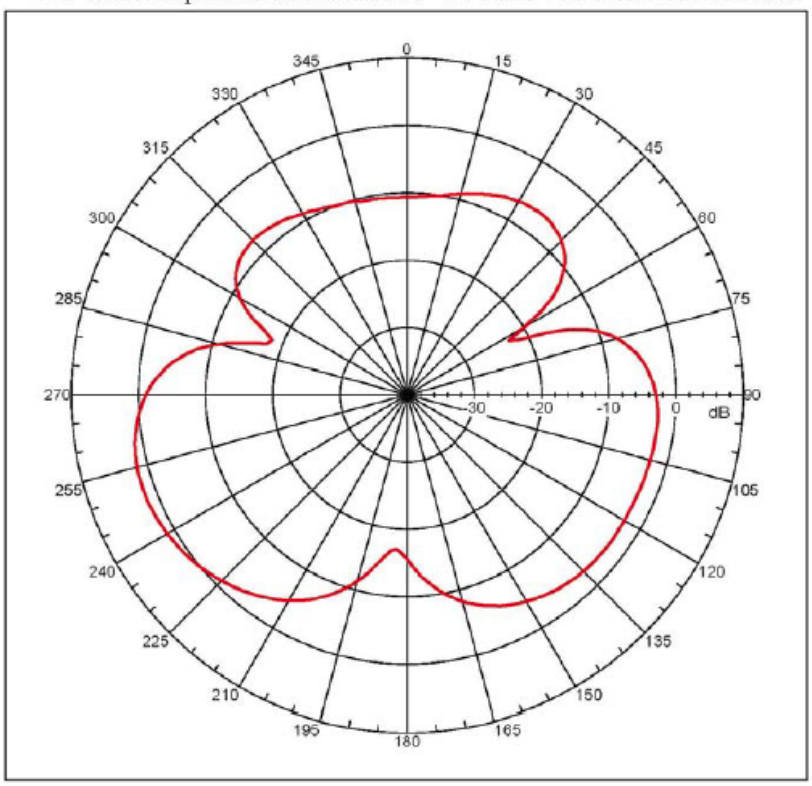

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.81917  dBi
Max far-field (global) = -41.18017  dB, Max far-field (plot) =
-41.18021  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -100.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-E

NSI2000 V4.8.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -6.448 dB
   -3. dB beam width: 52.53 deg
   -6. dB beam width: 76.14 deg
   -10. dB beam width: 100.10 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -15.64 dB at 25.140  deg
Far-field display setup
   Azimuth (deg)
      Span = 360.00001  deg, Center = 0.000  deg, #pts = 101
      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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
2       0.824  GHz  Azimuth  Elevation  Single-pol
```

2D Pattern—E Plane 850MHz: 0.84165 dBi



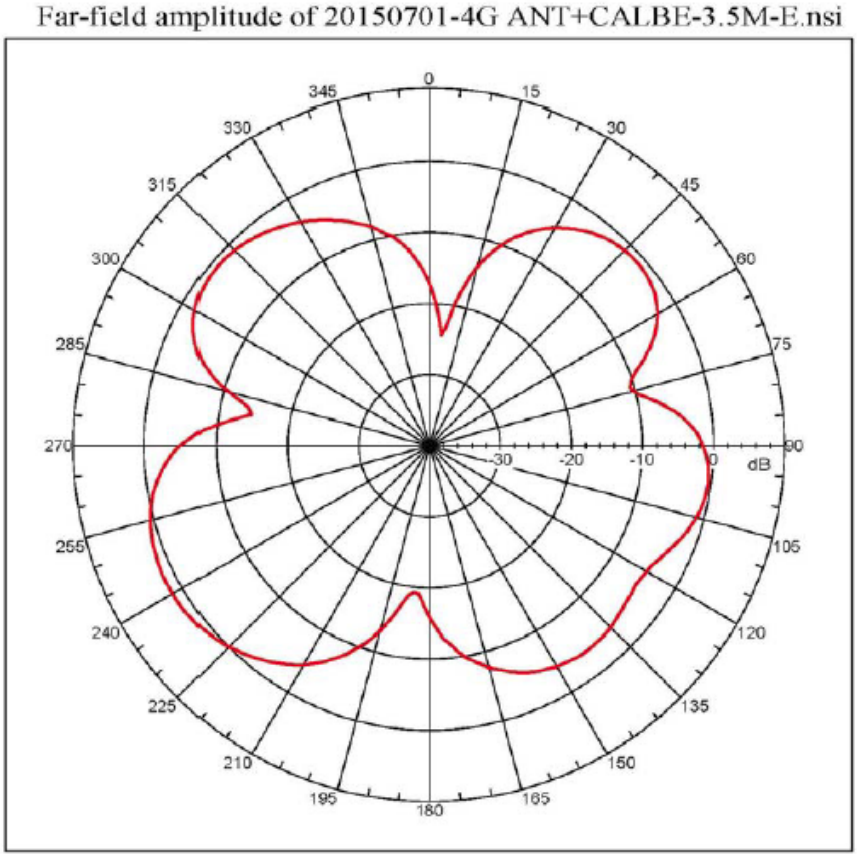

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.84165  dBi
Max far-field (global) = -40.41521  dB, Max far-field (plot) =
-40.41523  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -100.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-E

NSI2000 V4.8.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -6.448 dB
   -3. dB beam width: 51.67 deg
   -6. dB beam width: 72.59 deg
   -10. dB beam width: 92.60 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -28.76 dB at -29.102  deg
Far-field display setup
   Azimuth (deg)
      Span = 360.00001  deg, Center = 0.000  deg, #pts = 101
      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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
3       0.850  GHz  Azimuth  Elevation  Single-pol
```

2D Pattern—E Plane 900MHz: 1.72636 dBi



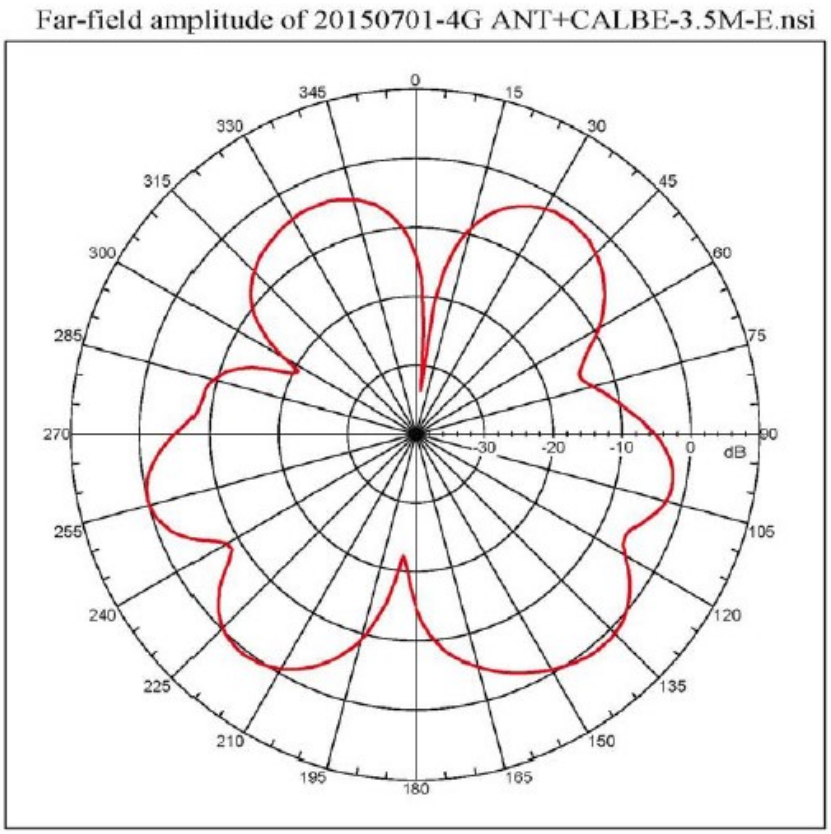

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.72636  dBi
Max far-field (global) = -39.83332  dB, Max far-field (plot) =
-39.83332  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -120.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-E

NSI2000 V4.8.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.536 dB
   -3. dB beam width: 67.34 deg
   -6. dB beam width: 66.05 deg
   -10. dB beam width: 82.01 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -9.33 db at -65.251  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
4       0.900  GHz  Azimuth  Elevation  Single-pol
```

2D Pattern—E Plane 960MHz: 1.60164 dBi



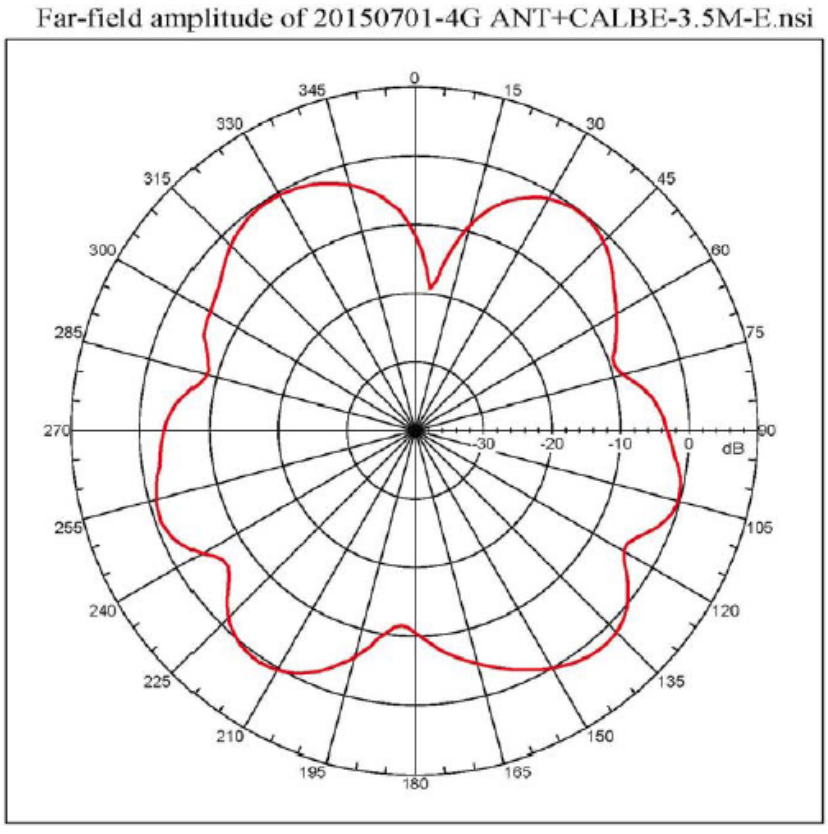

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.60164  dBi
Max far-field (global) = -41.92803  dB, Max far-field (plot) =
-41.92803  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -118.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-E

NSI2000 V4.8.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.228 dB
   -3. dB beam width: 43.05 deg
   -6. dB beam width: 59.20 deg
   -10. dB beam width: 72.67 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -2.56 db at -49.274  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
5       0.960  GHz  Azimuth  Elevation  Single-pol
```

E-Plane 1710MHz: 1.06143 dBi



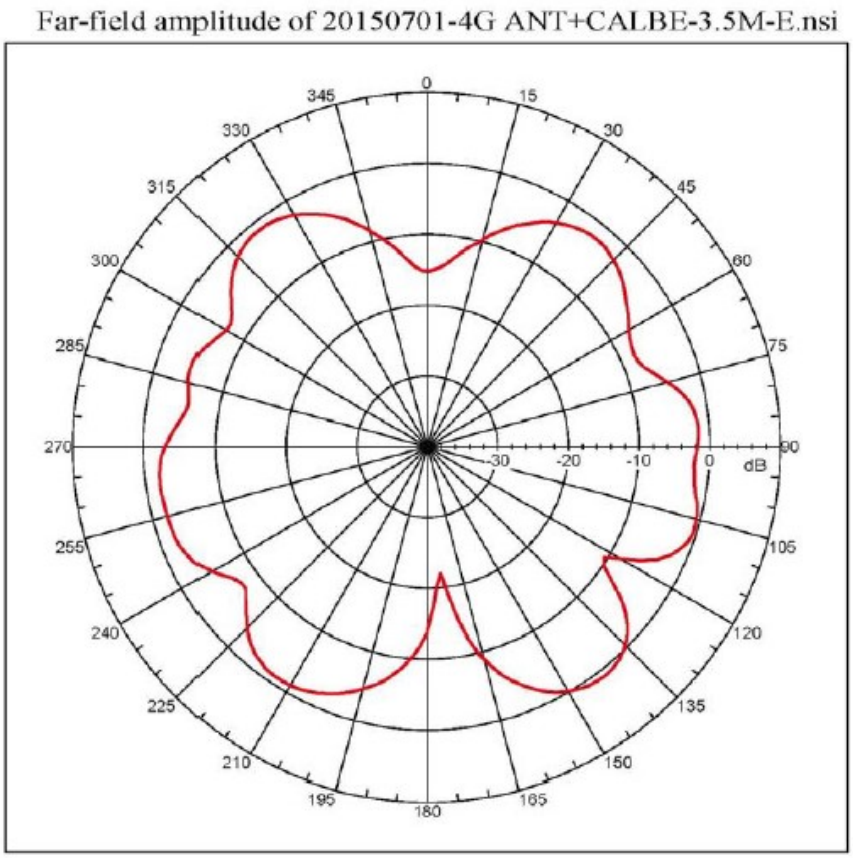

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.06143  dBi
Max far-field (global) = -44.13116  dB, Max far-field (plot) =
-44.13121  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 128.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-E

NSI2000 V4.8.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.954 dB
   -3. dB beam width: 38.67 deg
   -6. dB beam width: 45.35 deg
   -10. dB beam width: 58.30 deg
   Left Sidelobe: -2.99 dB at 103.575  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
9       1.710  GHz  Azimuth  Elevation  Single-pol
```

E-Plane 1800MHz: 1.76763 dBi



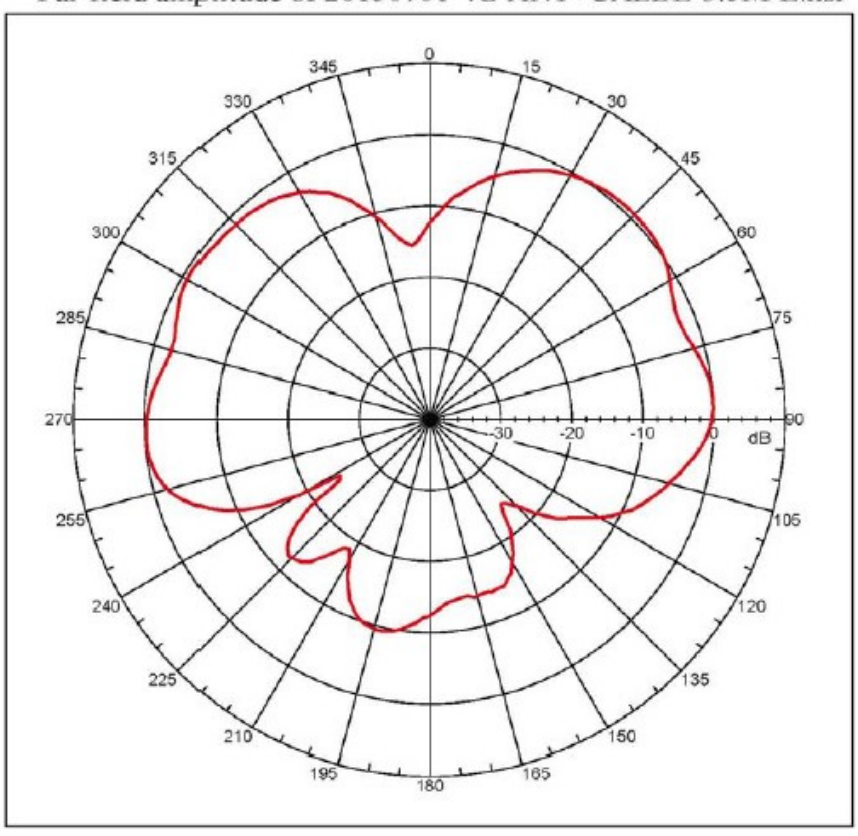

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.76763  dBi
Max far-field (global) = -45.85441  dB, Max far-field (plot) =
-45.85445  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 128.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-E

NSI2000 V4.8.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -3.262 dB
   -3. dB beam width: 21.47 deg
   -6. dB beam width: 42.10 deg
   -10. dB beam width: 59.37 deg
   Left Sidelobe: -2.05 dB at 105.597  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
10      1.800  GHz  Azimuth  Elevation  Single-pol
```

E-Plane 1900MHz: 0.96073 dBi



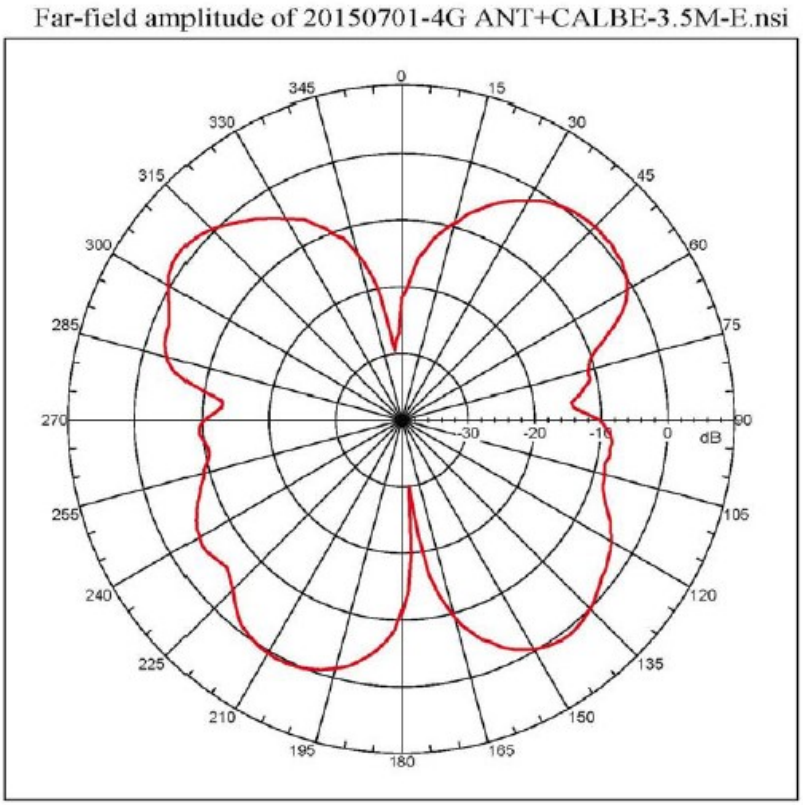

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.96073  dBi
Max far-field (global) = -46.87623  dB, Max far-field (plot) =
-46.87623  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 141.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-E

NSI2000 V4.0.324, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.289 dB
   -3. dB beam width: 23.40 deg
   -6. dB beam width: 32.25 deg
   -10. dB beam width: 48.59 deg
   Left Sidelobe: -1.40 dB at 109.609  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
11      1.900  GHz  Azimuth  Elevation  Single-pol
```

E-Plane 2170MHz: 0.72134 dBi



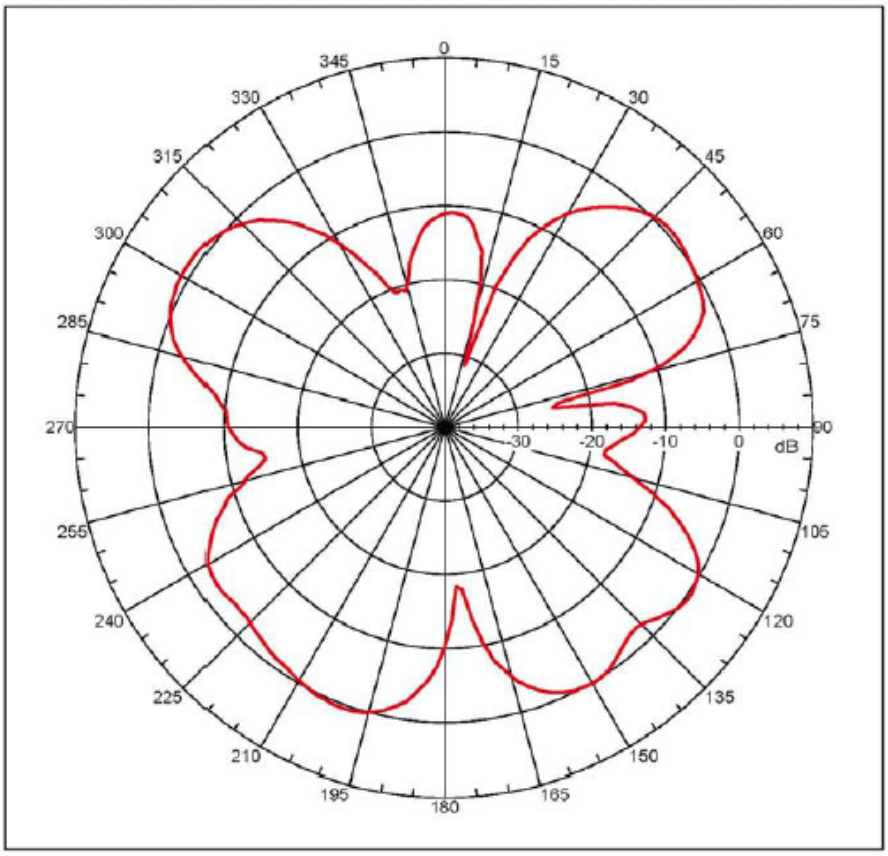

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.72134  dBi
Max far-field (global) = -46.81077  dB, Max far-field (plot) =
-46.81092  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 42.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-E

NSI2000 V4.0.324, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:22 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.247 dB
   -3. dB beam width: 85.11 deg
   -6. dB beam width: 92.49 deg
   -10. dB beam width: 110.41 deg
   Left Sidelobe: -1.27 dB at -57.210  deg
   Right Sidelobe: -0.77 dB at 87.486  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
12      2.170  GHz  Azimuth  Elevation  Single-pol
```

E-Plane 2400MHz: 1.73269 dBi



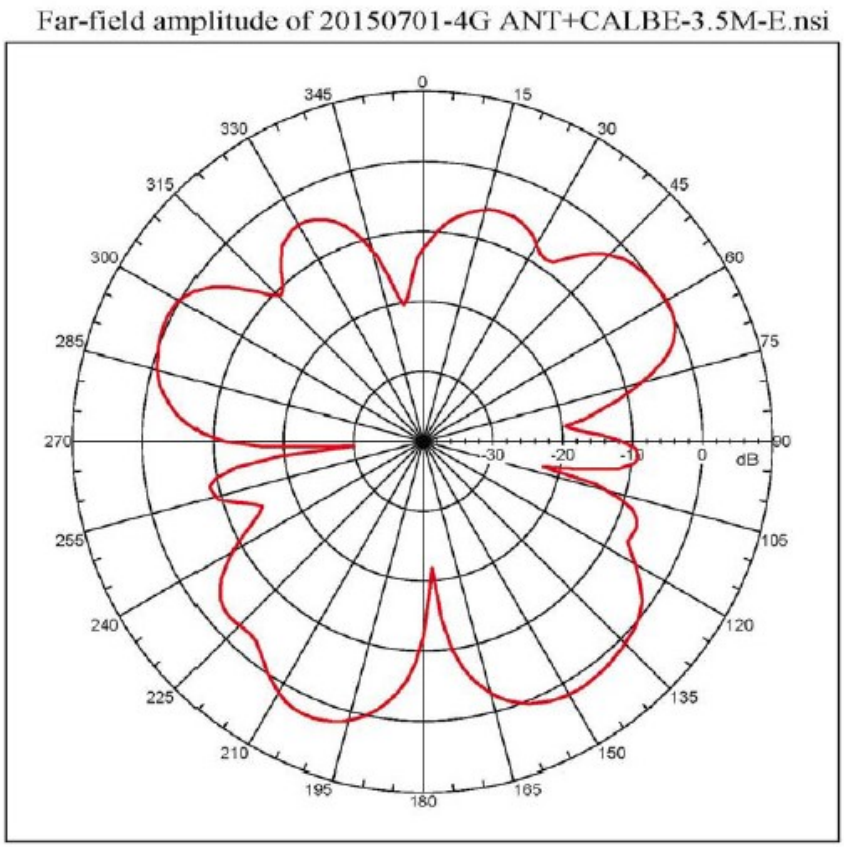

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.73269  dBi
Max far-field (global) = -47.27494  dB, Max far-field (plot) =
-47.27494  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -56.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.258 dB
   -3. dB beam width: 23.86 deg
   -6. dB beam width: 34.51 deg
   -10. dB beam width: 57.59 deg
   Left Sidelobe: -11.18 dB at -92.520  deg
   Right Sidelobe: -0.06 dB at 47.203  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
12      2.400  GHz  Azimuth  Elevation  Single-pol
```

E-Plane 2500 MHz: 1.04758 dBi



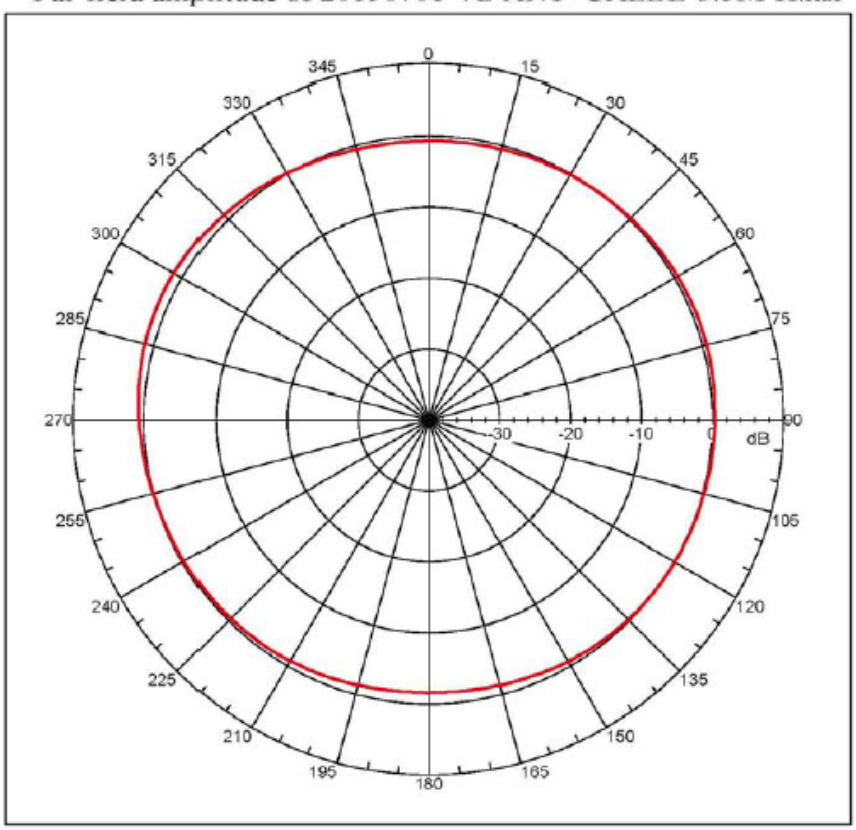

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.04758  dBi
Max far-field (global) = -49.88841  dB, Max far-field (plot) =
-49.88846  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -60.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.572 dB
   -3. dB beam width: 33.25 deg
   -6. dB beam width: 28.90 deg
   -10. dB beam width: 58.99 deg
   Left Sidelobe: -2.43 dB at -125.699  deg
   Right Sidelobe: -11.96 dB at 3.817  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
14      2.500  GHz  Azimuth  Elevation  Single-pol
```

E-Plane 2600MHz: 2.59262 dBi



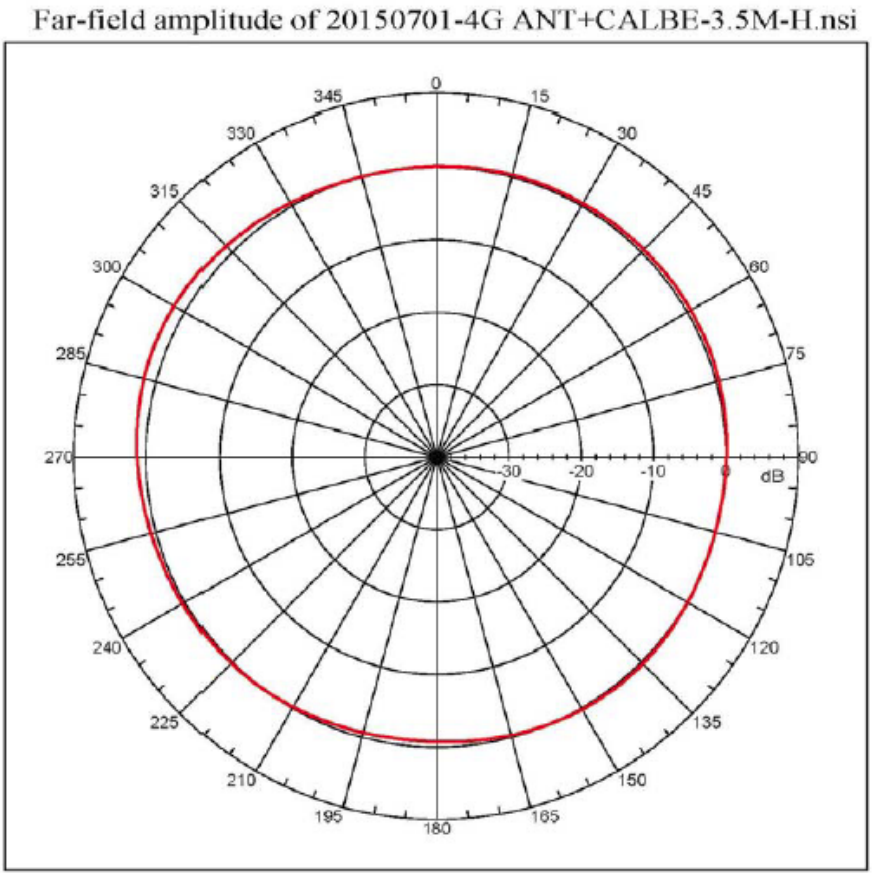

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 2.59262  dBi
Max far-field (global) = -47.72417  dB, Max far-field (plot) =
-47.72429  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -156.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-E

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.167 dB
   -3. dB beam width: 21.88 deg
   -6. dB beam width: 46.20 deg
   -10. dB beam width: 56.36 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -11.26 dB at -181.564  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
15      2.600  GHz  Azimuth  Elevation  Single-pol
```

H-Plane 806MHz: 1.37841 dBi



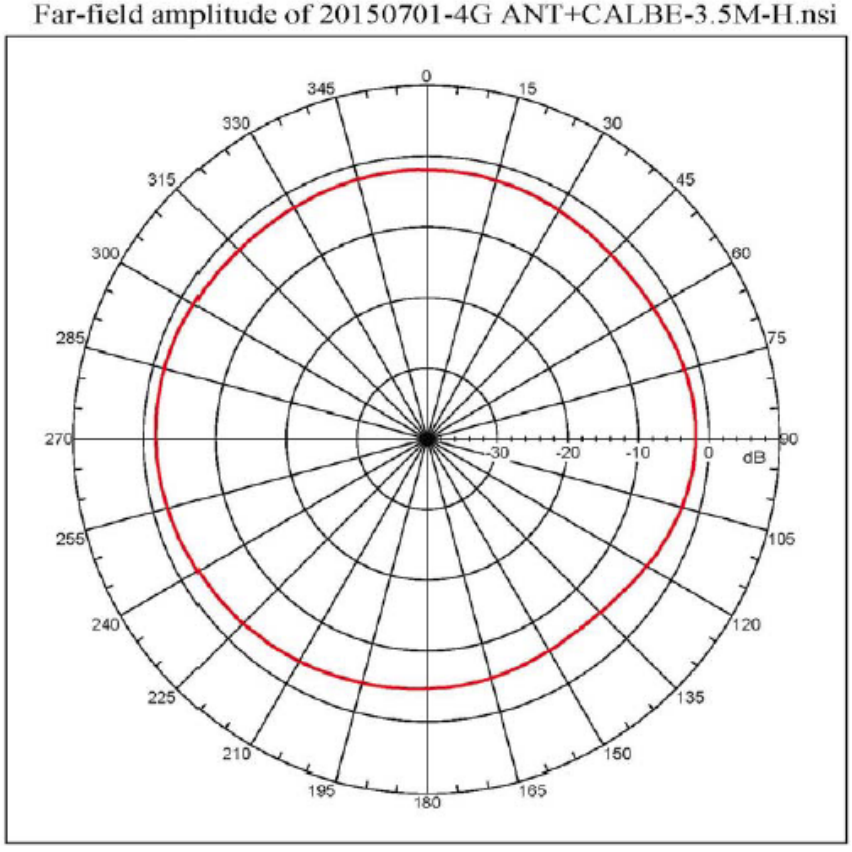

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.37841  dBi
Max far-field (global) = -41.36906  dB, Max far-field (plot) =
-41.36906  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -60.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -0.017 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: -0.91 dB at 59.330  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
1       0.806  GHz  Azimuth  Elevation  Single-pol
```

H-Plane 824MHz: 1.77902 dBi



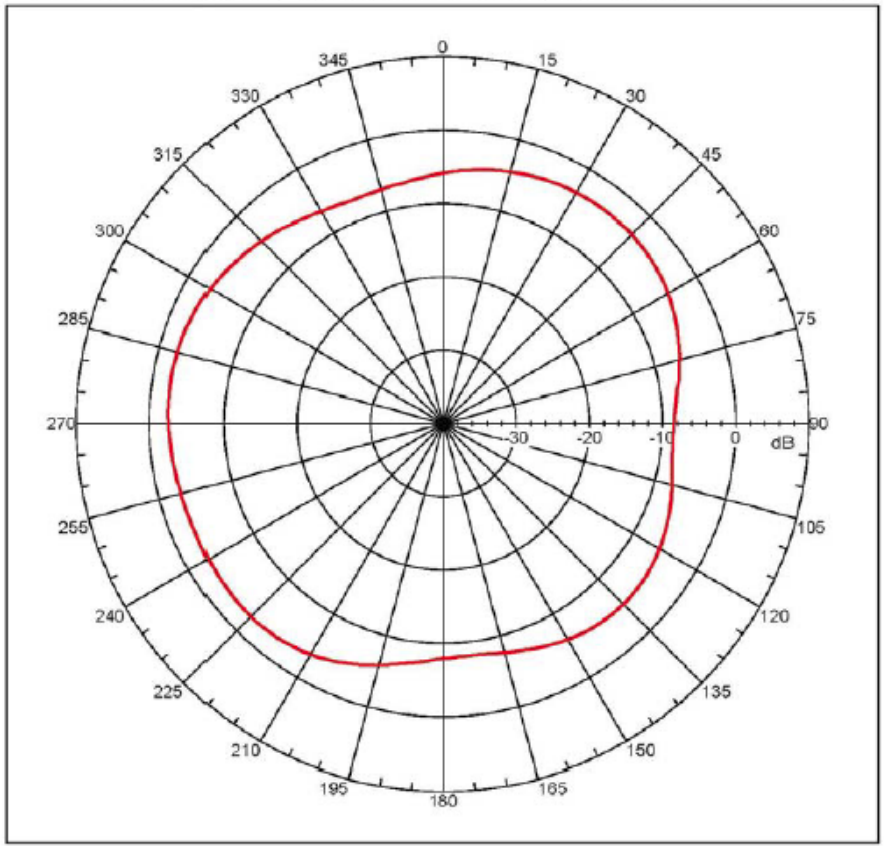

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.77902  dBi
Max far-field (global) = -41.22032  dB, Max far-field (plot) =
-41.22032  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -68.900  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:20 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: 0.371 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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
2       0.824 GHz  Azimuth  Elevation  Single-pol
```

H-Plane 850 MHz: -1.60185 dBi



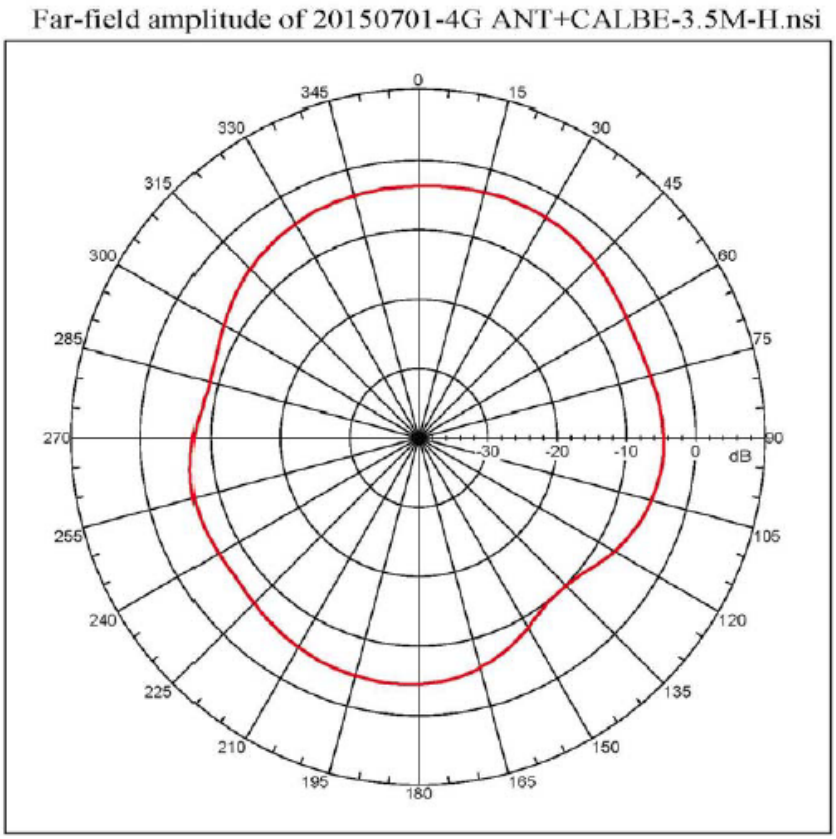

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -1.60185  dBi
Max far-field (global) = -42.85071  dB, Max far-field (plot) =
-42.85071  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -76.90001  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:20 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -2.067 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: -0.24 dB at 87.486  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
2       0.850 GHz  Azimuth  Elevation  Single-pol
```

H-Plane 900MHz: -2.47165 dBi



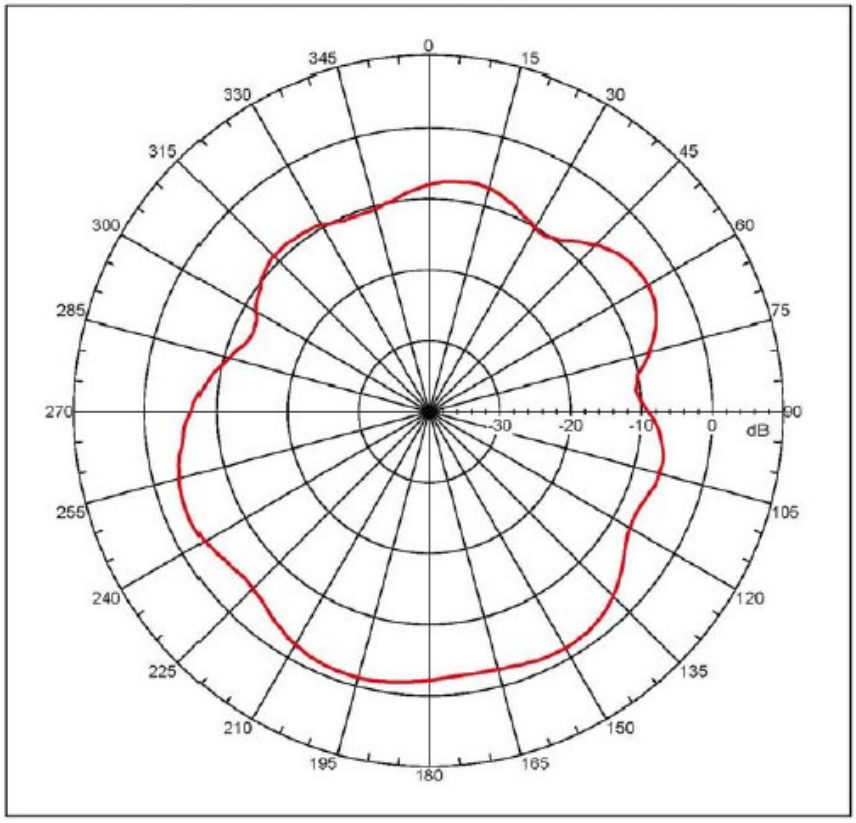

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -2.47165  dBi
Max far-field (global) = -44.93133  dB, Max far-field (plot) =
-44.93124  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -82.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-H

NSI2000 V4.0.324, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.929 dB
   -3. dB beam width: 123.69 deg
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: Not Found
   Right Sidelobe: -0.99 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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
4       0.900  GHz  Azimuth  Elevation  Single-pol
```

H-Plane 960MHz: -3.26146 dBi



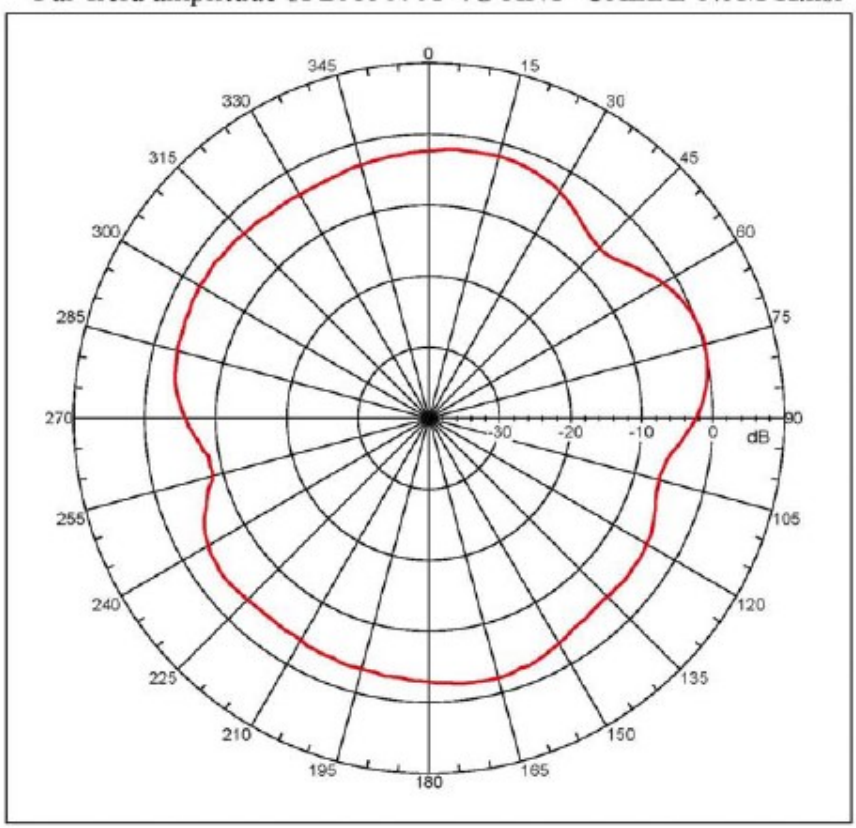

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -3.26146  dBi
Max far-field (global) = -45.89113  dB, Max far-field (plot) =
-45.89134  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 19.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-H

NSI2000 V4.0.324, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.582 dB
   -3. dB beam width: 165.18 deg
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -3.19 dB at -105.587  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
5       0.960  GHz  Azimuth  Elevation  Single-pol
```

H-Plane 1710MHz –1.21375 dBi



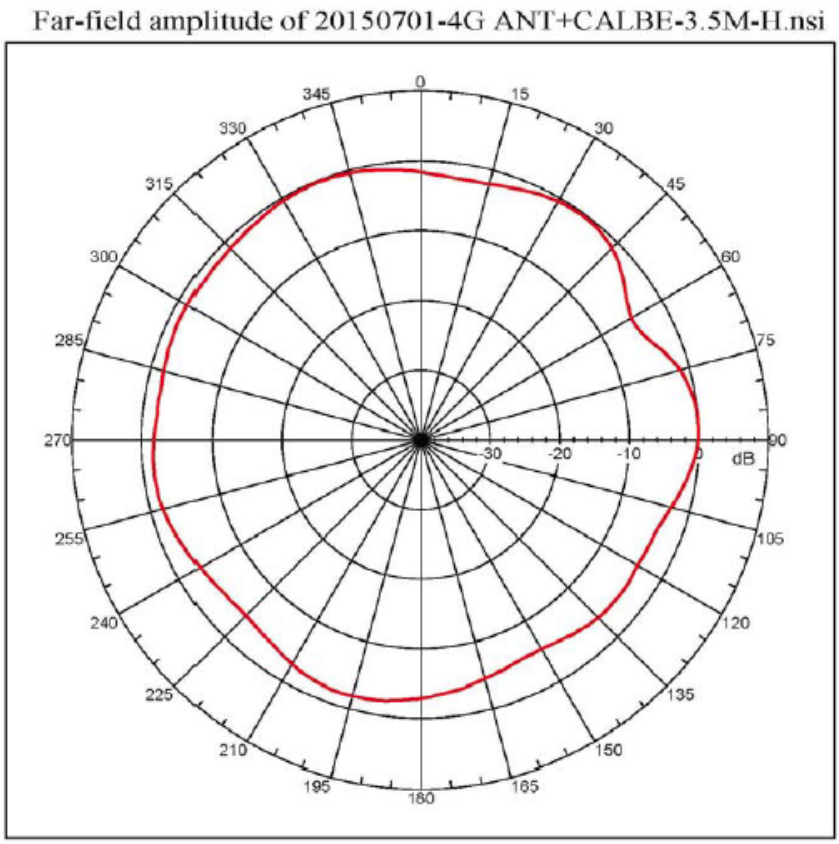

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -1.21375  dBi
Max far-field (global) = -46.40634  dB, Max far-field (plot) =
-46.40634  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -164.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-H

NSI2000 V4.8.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.084 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: -1.87 dB at -113.631  deg
Far-field display setup
   Azimuth (deg)
      Span = 359.00001  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
0       1.710  GHz  Azimuth  Elevation  Single-pol
```

H-Plane 1800MHz: 0.29161 dBi



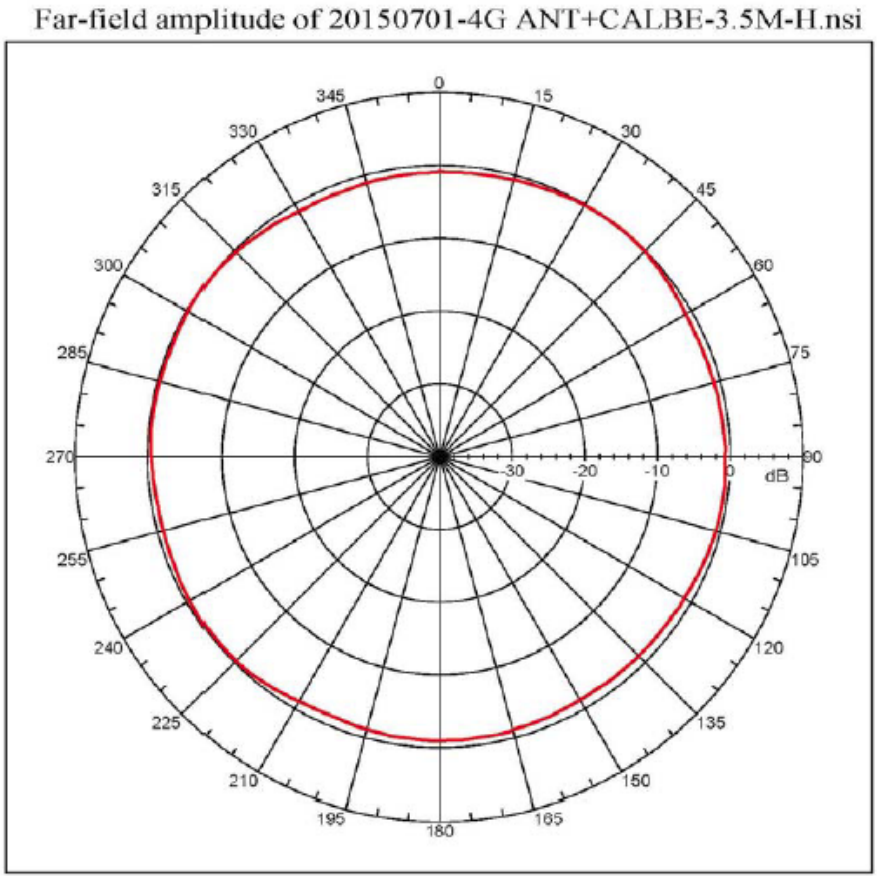

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.29161  dBi
Max far-field (global) = -46.53043  dB, Max far-field (plot) =
-46.53043  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 73.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-H

NSI2000 V4.8.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -3.447 dB
   -3. dB beam width: 33.46 deg
   -6. dB beam width: 50.52 deg
   -10. dB beam width: Not Found
   Left Sidelobe: -2.12 dB at 15.084  deg
   Right Sidelobe: -4.62 dB at 125.098  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
10      1.800  GHz  Azimuth  Elevation  Single-pol
```

H-Plane 1900MHz: -0.03944 dBi



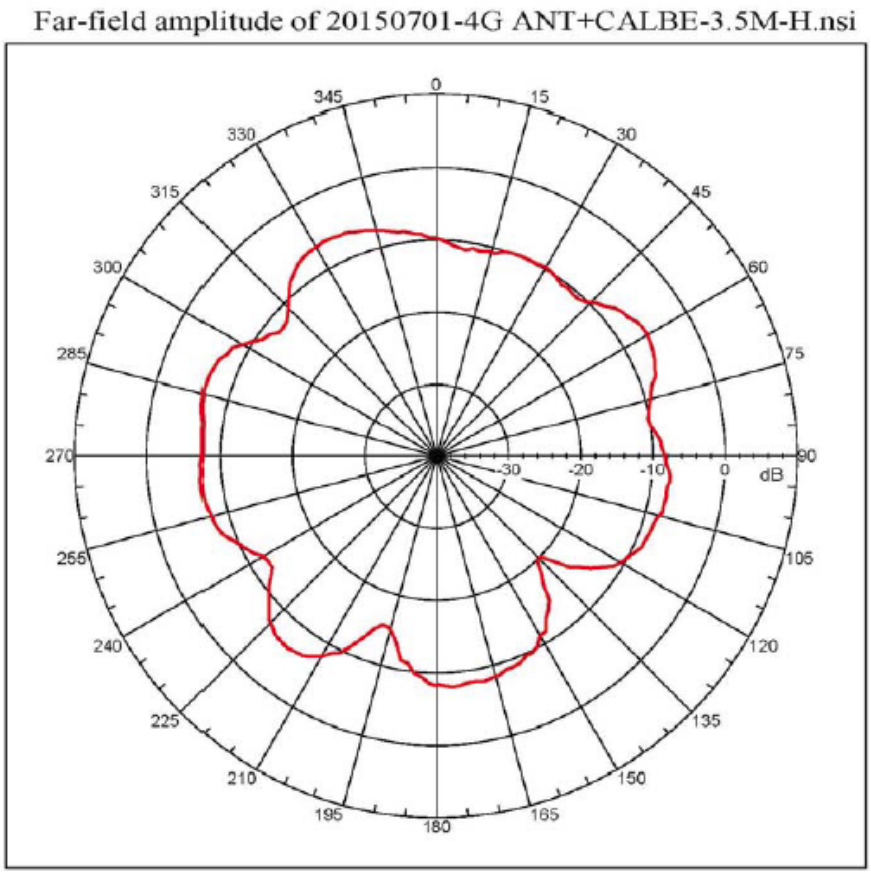

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -0.03944  dBi
Max far-field (global) = -47.9764  dB, Max far-field (plot) =
-47.97661  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 85.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-H

NSI2000 V4.8.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -2.231 dB
   -3. dB beam width: 37.22 deg
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -9.27 dB at 37.297  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
11      1.900  GHz  Azimuth  Elevation  Single-pol
```

H-Plane 2170MHz: 0.020 dBi



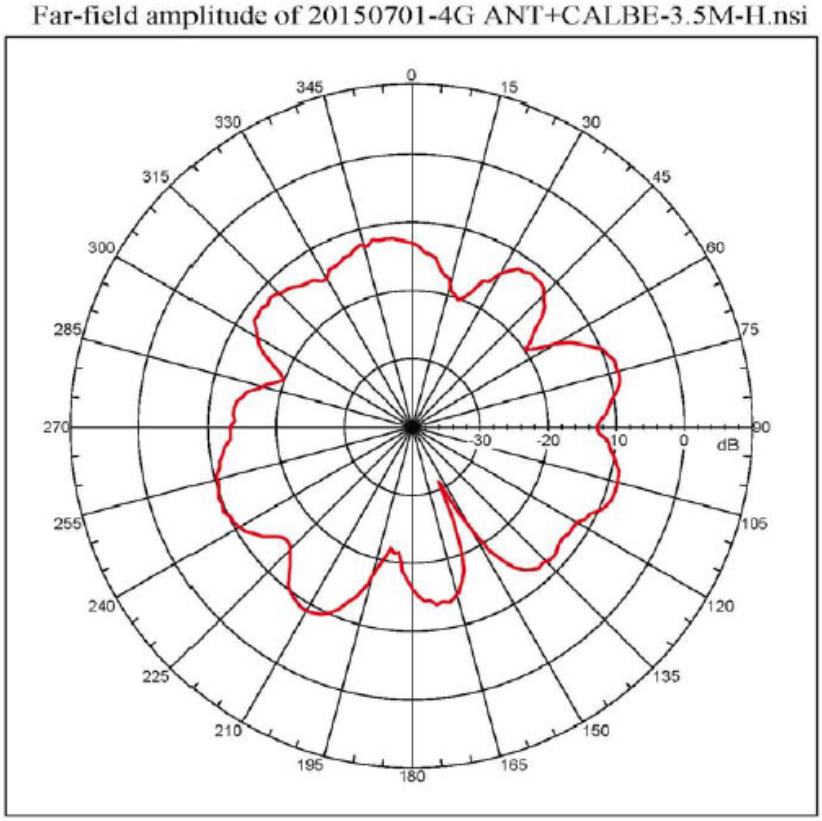

```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.020  dBi
Max far-field (global) = -47.51211  dB, Max far-field (plot) =
-47.51232  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 29.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-H

NSI2000 V4.8.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -0.758 dB
   -3. dB beam width: Not Found
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -9.09 dB at -51.295  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
12      2.170  GHz  Azimuth  Elevation  Single-pol
```

H-Plane 2400MHz –6.23579 dBi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -6.23579  dBi
Max far-field (global) = -55.24342  dB, Max far-field (plot) =
-55.24346  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 59.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 1/1/2015 3:36:20 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -9.168 dB
   -3. dB beam width: 28.34 deg
   -6. dB beam width: 245.17 deg
   -10. dB beam width: Not Found
   Left Sidelobe: -8.32 dB at -21.117  deg
   Right Sidelobe: -1.24 dB at 97.542  deg
Far-field display setup
   Azimuth (deg)
      Span = 360.00691  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
13      2.400  GHz  Azimuth  Elevation  Single-pol
```

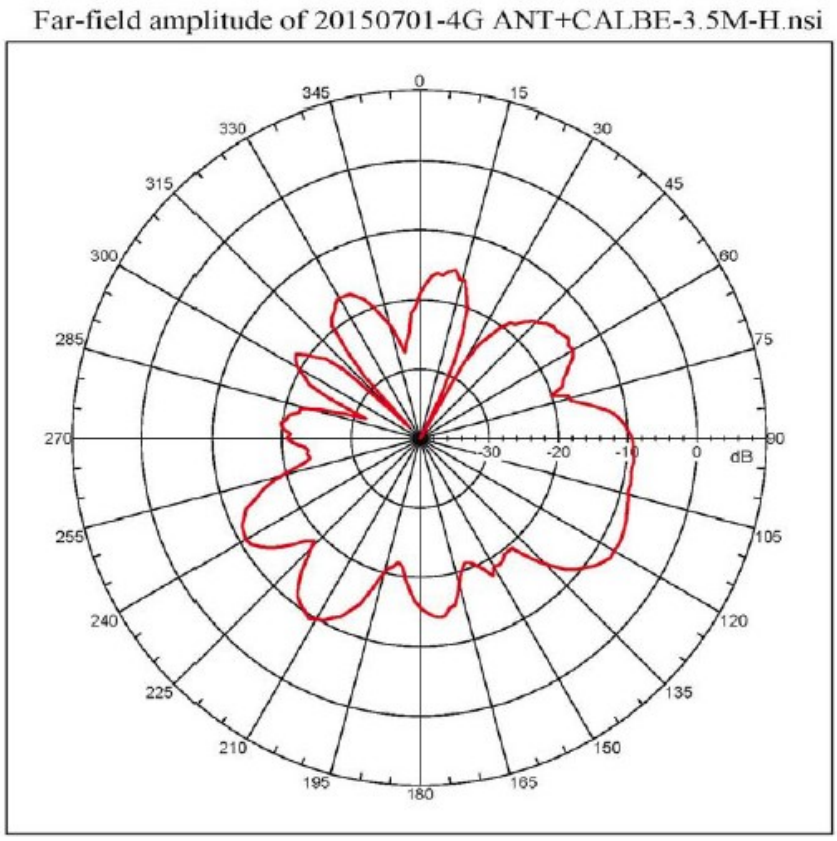
H-Plane 2500MHz: -8.61832 dBi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -8.61832  dBi
Max far-field (global) = -58.75431  dB, Max far-field (plot) =
-58.7546  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 75.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 1/1/2015 3:36:20 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -12.850 dB
   -3. dB beam width: 21.38 deg
   -6. dB beam width: 92.42 deg
   -10. dB beam width: 98.70 deg
   Left Sidelobe: -3.08 dB at 42.240  deg
   Right Sidelobe: -0.07 dB at 107.598  deg
Far-field display setup
   Azimuth (deg)
      Span = 360.00691  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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
14      2.500  GHz  Azimuth  Elevation  Single-pol
```

ANT-M4G3

H-Plane 2600MHz: -7.49977 dBi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -7.49977  dBi
Max far-field (global) = -57.81656  dB, Max far-field (plot) =
-57.81656  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 117.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20150701-4G ANT+CALBE-3.5M-H

NSI2000 V4.0.324, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -15.671 dB
   -3. dB beam width: 44.15 deg
   -6. dB Beam Width: 52.56 deg
   -10. dB beam width: 62.50 deg
   Left Sidelobe: -7.01 dB at 61.241  deg
   Right Sidelobe: -10.84 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 15
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
15      2.600  GHz  Azimuth  Elevation  Single-pol
```

RF Solutions Ltd. Recycling Notice
Meets the following EC Directives:

DO NOT
Discard with normal waste, please recycle.

ROHS Directive 2002/95/EC
Specifies certain limits for hazardous substances.

WEEE Directive 2002/96/EC
Waste electrical & electronic equipment. This product must be disposed of through a licensed WEEE collection point. RF Solutions Ltd., fulfills its WEEE obligations by membership of an approved compliance scheme.

Waste Batteries and Accumulators Directive 2006/66/EC

Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.

Environment Agency producer registration number: WEE/JB0104WV.

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