納 入 仕 様 書

SW-42F-LTE-B-I
SW-42F-LTE-B-I-7ME
SW-42F-LTE-B-I-15.5ME

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改版履歴

版数	日付	承認者	改版者	改版内容
3.2	2021 年 11 月 10 日	中嶋	正木	型番変更 SW-42F-LTE-B-I-15M => SW-42F-LTE-B-I-15.5ME （延長ケーブル付きアンテナは型番末尾に E を付加） 「4.外観仕様」に「ブラケット部詳細」 追加 「7.梱包仕様」 追加 「■12m 延長ケーブル（iEC12M）仕様」 差替
3.3	2023 年 2 月 15 日	中嶋	正木	Band B40 データ（2302.75MHz/2350MHz/2397.5MHz）追加
3.4	2024 年 2 月 7 日	中嶋	正木	IDY 住所変更
3.5	2026 年 2 月 2 日	大野	正木	① 延長ケーブル3.5m(iEC3.5M)付きモデル SW-42F-LTE-B-I-7ME 追加 ② 末尾 IDY 住所より FAX 番号削除

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■ 適用

本仕様書は、株式会社IDY（以下、「IDY」という）が供給する 3G/LTE/WiMAX および WiMAX2+向けアンテナ SW-42F-LTE-B-I シリーズの納入仕様書である。

■ 仕様

1. 型名

SW-42F-LTE-B-I　　：アンテナ本体（ケーブル長 3.5m）のみ

SW-42F-LTE-B-I-7ME　　：アンテナ本体（ケーブル長 3.5m）＋3.5m 延長ケーブル（iEC3.5M）

SW-42F-LTE-B-I-15.5ME　：アンテナ本体（ケーブル長 3.5m）＋12m 延長ケーブル（iEC12M）

2. 用途　3G/LTE/WiMAX および WiMAX2+通信モジュールに接続し使用される。

3. 電気特性　(SW-42F-LTE-B-I)

周波数範囲　　：690~960/1427. 9~1510. 9/1710~2170/2300~2400/2400~2700MHzMHz

V.S.W.R　　：≦3. 0

インピーダンス　：50 Ω

水平面内指向性　：無指向性

偏波面　　：垂直偏波

利得　　：2～3dBi

4. 外観仕様

コネクタ　　：SMA-P（オス）

アンテナ寸法　：269mm ± 3

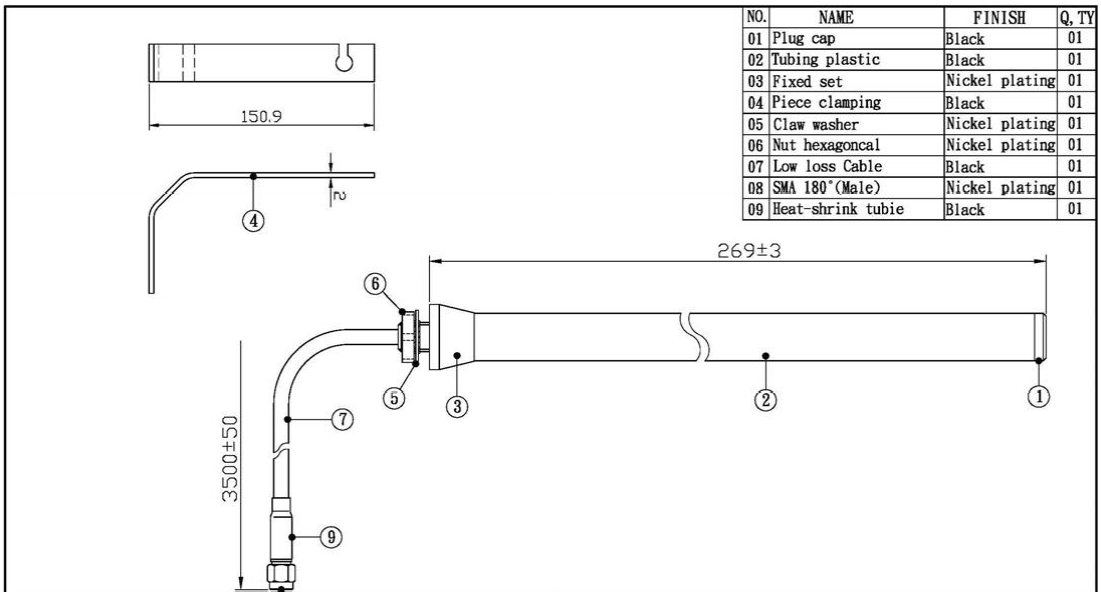
色　　：黒

同軸ケーブル　：CFD195 x 3.5m

外観写真　　：



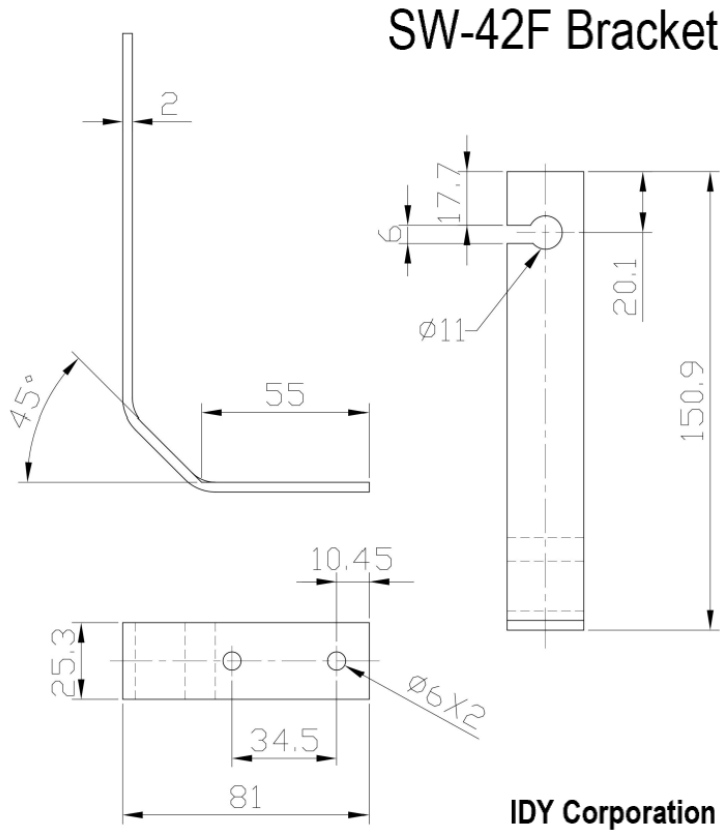
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NO.	NAME	FINISH	Q,TY
01	Plug cap	Black	01
02	Tubing plastic	Black	01
03	Fixed set	Nickel plating	01
04	Piece clamping	Black	01
05	Claw washer	Nickel plating	01
06	Nut hexagoncal	Nickel plating	01
07	Low loss Cable	Black	01
08	SMA 180°(Male)	Nickel plating	01
09	Heat-shrink tubie	Black	01

外観図　　：

ブラケット部分詳細



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5. アンテナ環境性能

動作保証温度	：	−30℃ ～ + 70℃
保存温度	：	−40℃ ～ + 80℃
防水規格	：	IPX5

6. シール仕様

IDY 供給品については下記のシール(サイズ：25mm × 7mm)をアンテナ本体またはビニール袋に貼付。

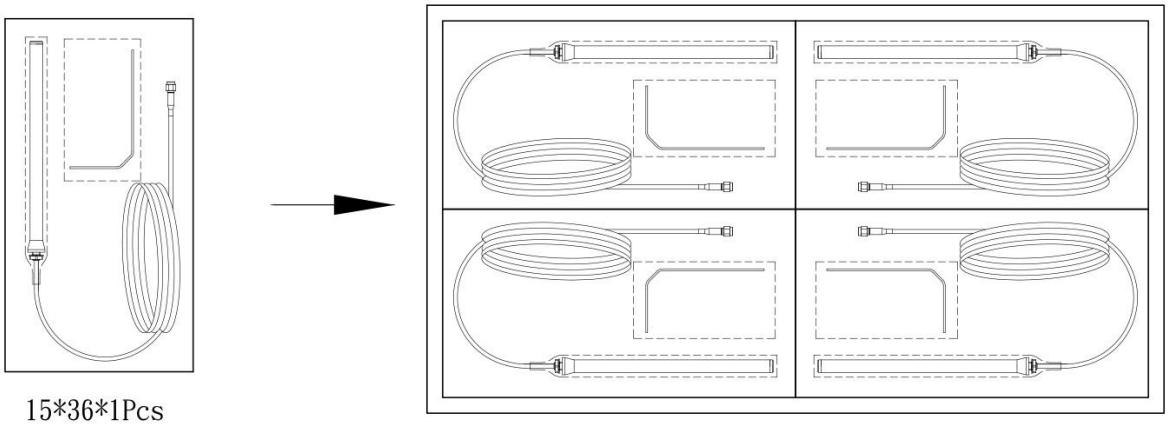
LTE 用



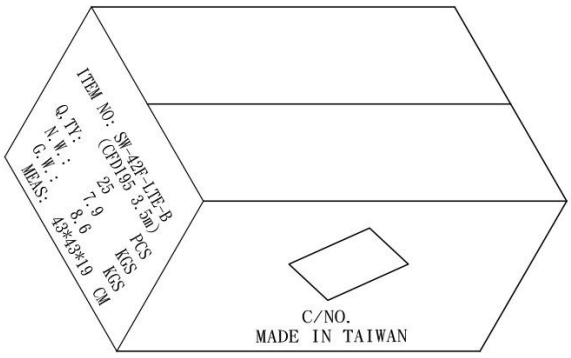
WiMAX/WiMAX2+用



7. 梱包仕様



15*36*1Pcs
PE Bag

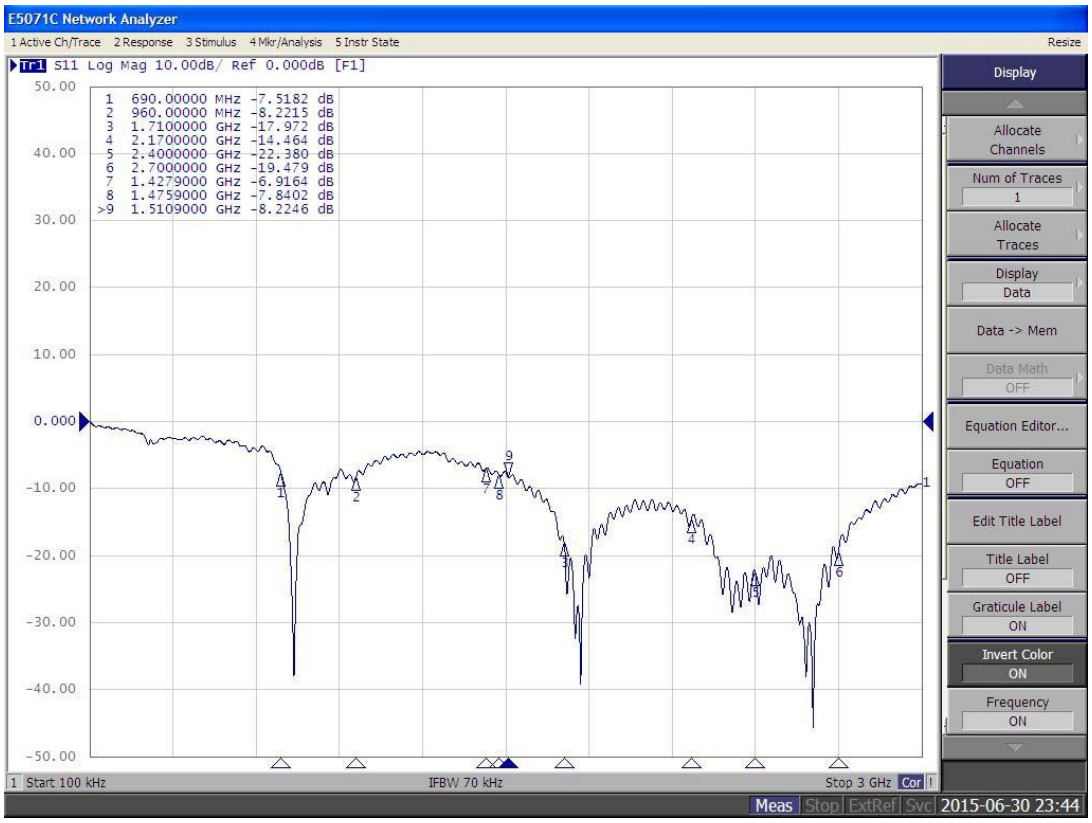


SW-42F-LTE-B-I （L=3.5m）

25PCS/CARTON
CARTON SIZE:43*43*19CM
GROSS WEIGHT:8.6KG

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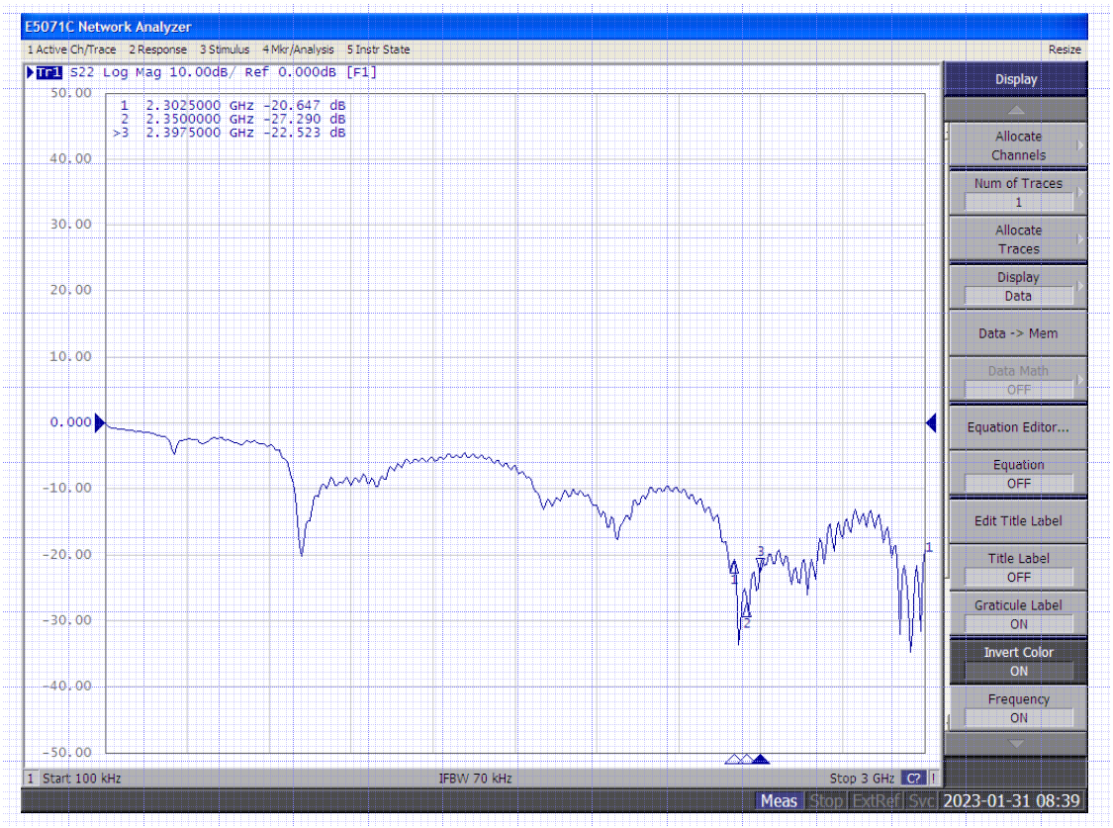
8. アンテナ部 V.S.W.R





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（追加試験:2023 年 2 月）



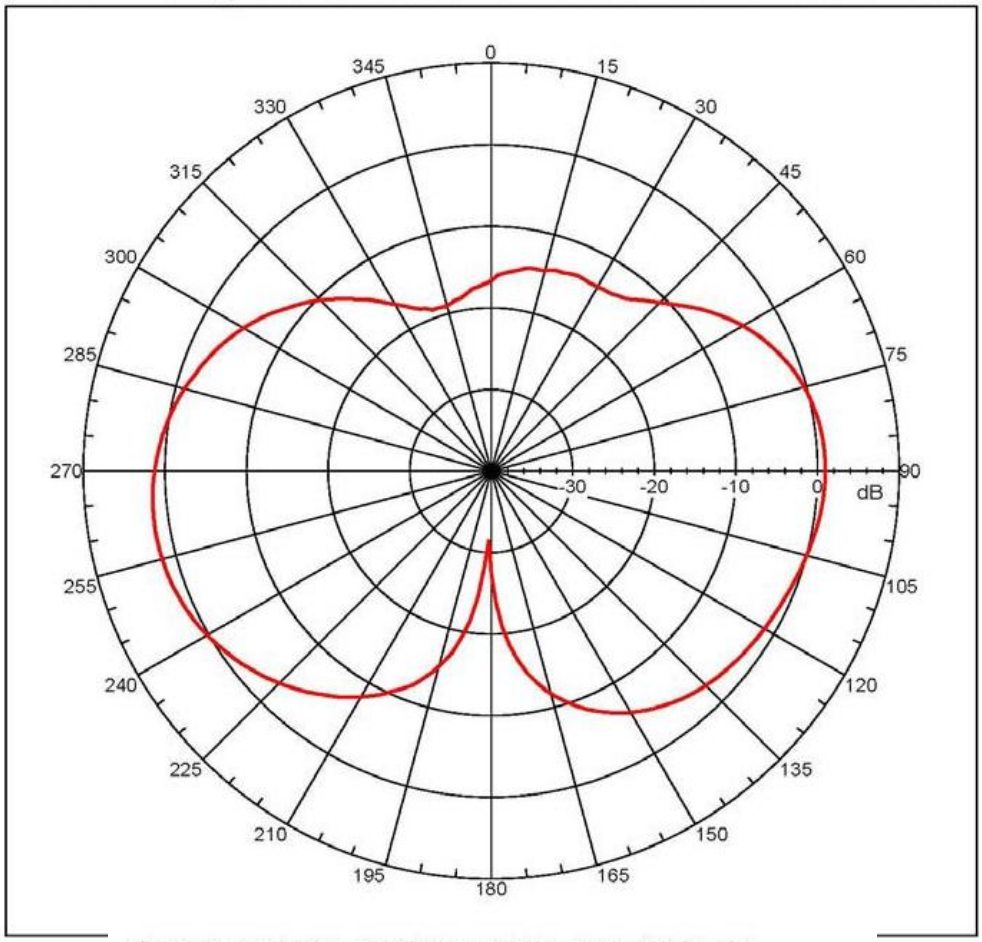


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9. ラジエーション・パターン

E Plane 824MHz: 1.81917dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
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

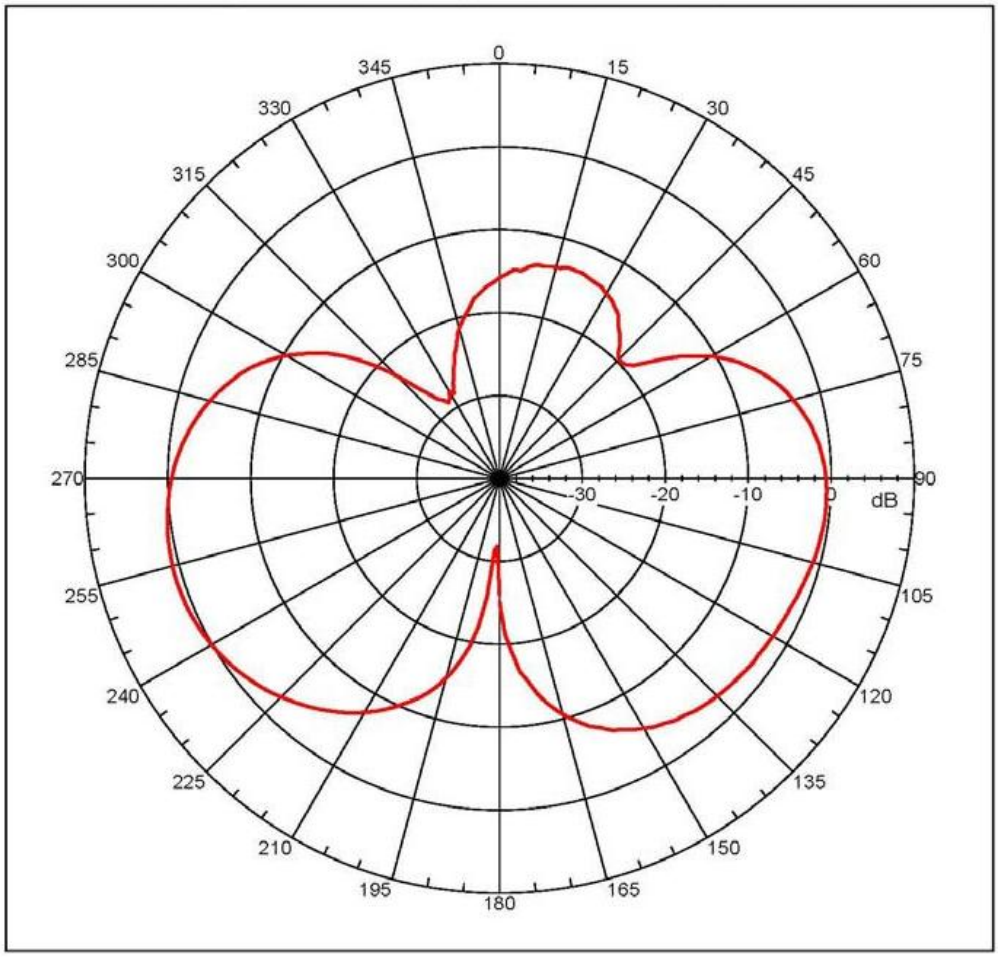
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.944 dB
   -3. dB beam width: 52.53 deg
   -6. dB beam width: 76.14 deg
   -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 = 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
```


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E Plane 850MHz: 0.84165dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
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: -108.000  deg, Vpeak at: 0.000  deg
Plot centering: On

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

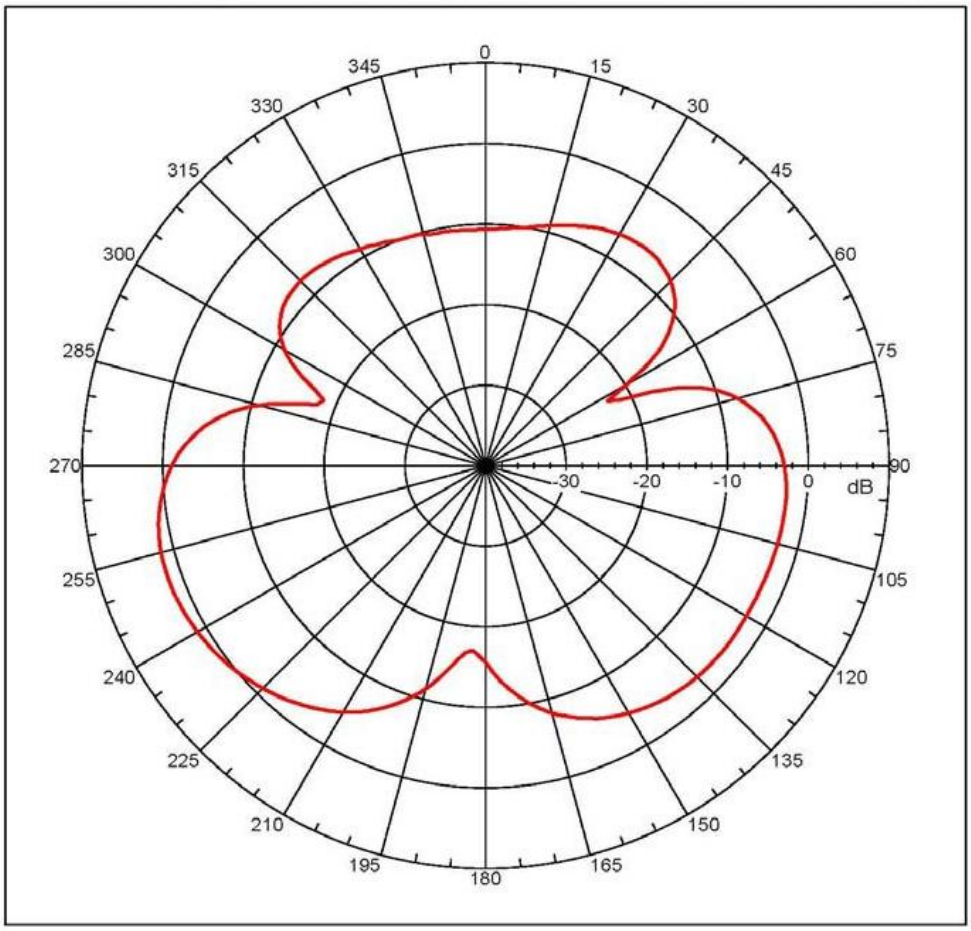
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -6.448 dB
   -3. dB beam width: 51.67 deg
   -6. dB beam width: 72.59 deg
   -10. dB beam width: 92.60 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -28.76 dB at -29.162  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
----    ---------   -------  ---------  ---
3       0.850  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 900MHz: 1.72636dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.72636  dBi
Max far-field (global) = -39.83332  dB, Max far-field (plot) =
-39.83333  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -110.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

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

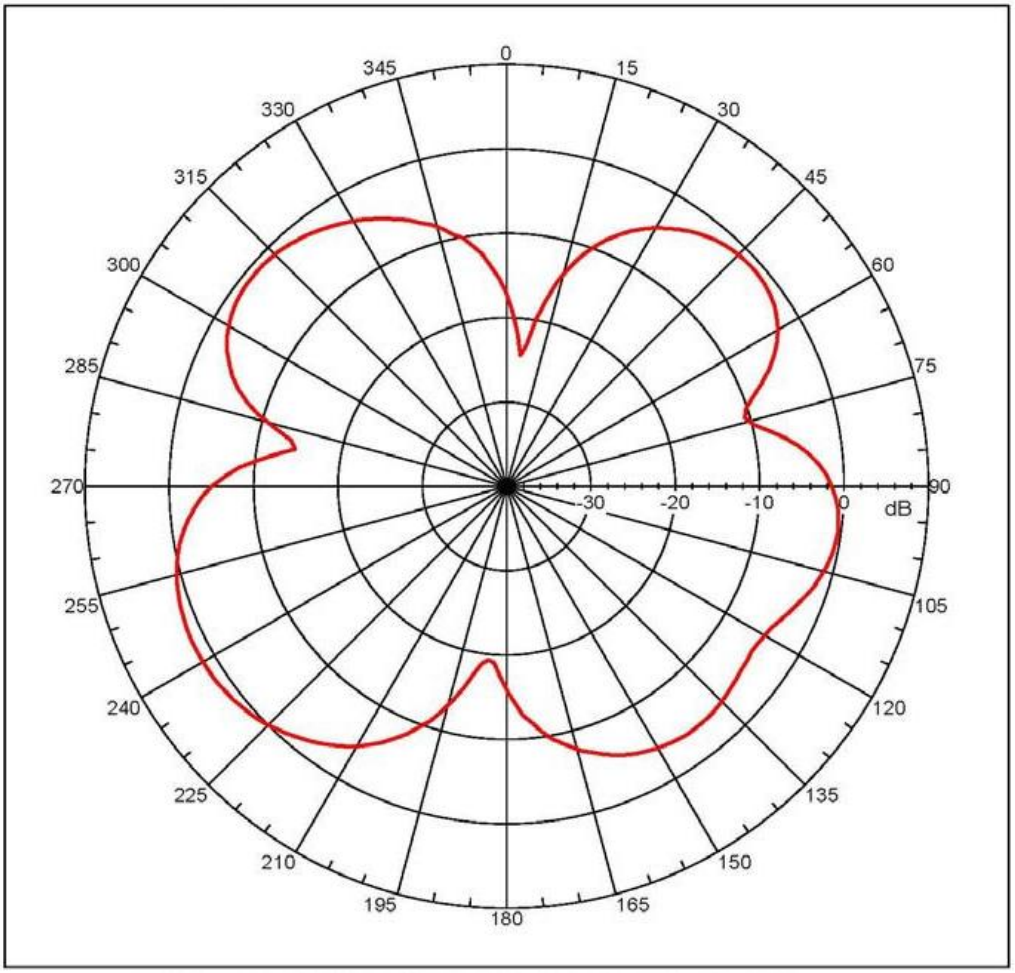
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.536 dB
   -3. dB beam width: 47.34 deg
   -6. dB beam width: 66.05 deg
   -10. dB beam width: 82.01 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -9.33 dB at -45.251  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
```


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E Plane 960MHz: 1.60164dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.60164  dBi
Max far-field (global) = -41.02803  dB, Max far-field (plot) =
-41.02805  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

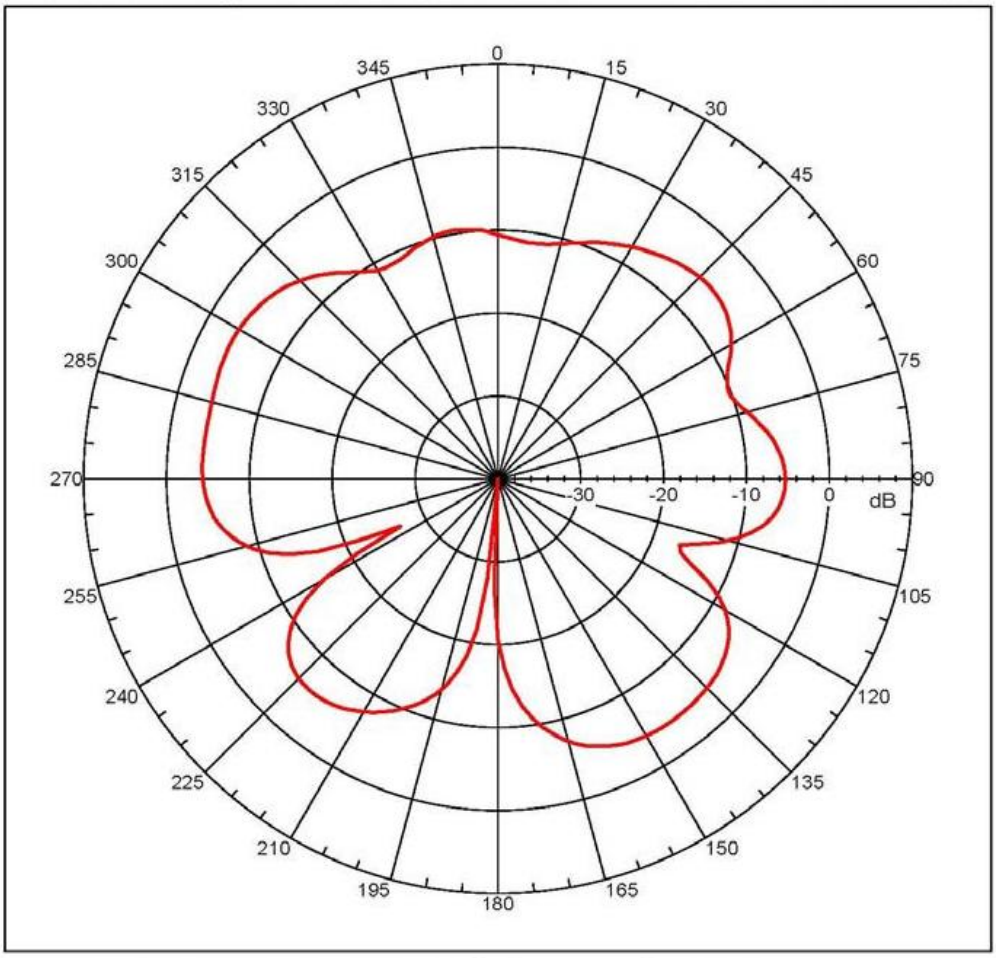
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.328 dB
   -3. dB beam width: 43.05 deg
   -6. dB beam width: 59.20 deg
   -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
```


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E Plane 1427.9MHz: -3.84666dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -3.84666  dBi
Max far-field (global) = -45.50369  dB, Max far-field (plot) =
-45.50371  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -64.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

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

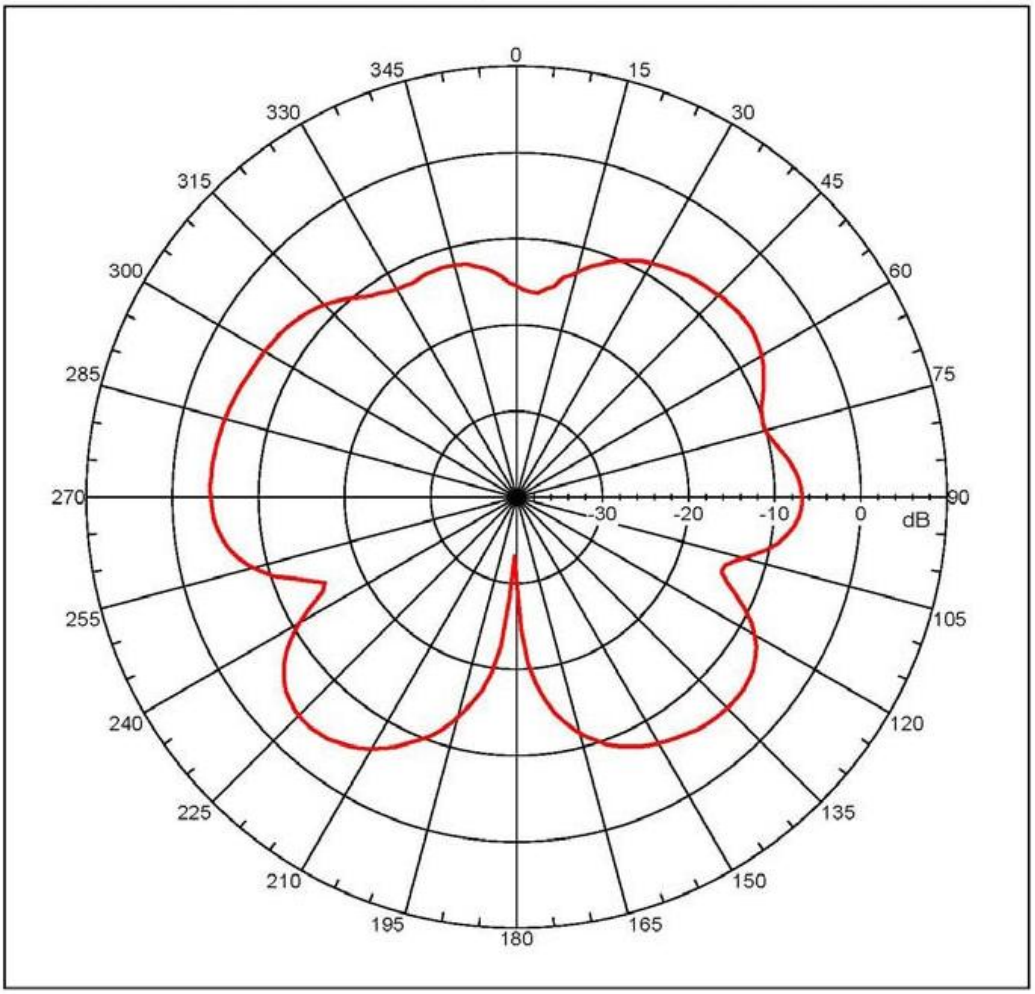
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -7.771 dB
   -3. dB beam width: 59.20 deg
   -6. dB beam width: 72.84 deg
   -10. dB beam width: 218.87 deg
   Left Sidelobe: -1.99 dB at -137.765  deg
   Right Sidelobe: -5.74 dB at -9.050  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
----    ---------    -------  ---------  ---
6       1.4279  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 1475.9MHz: -4.08363dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -4.08363  dBi
Max far-field (global) = -45.94928  dB, Max far-field (plot) =
-45.94932  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -138.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

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

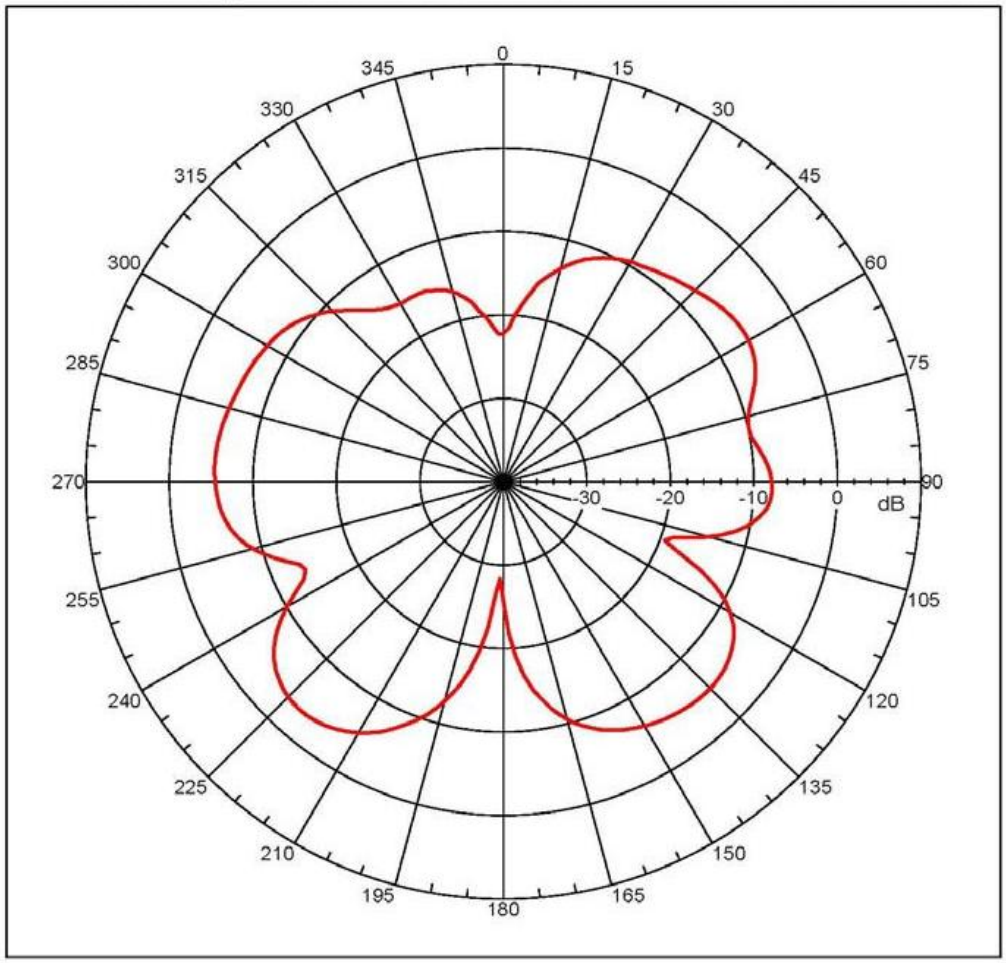
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -8.675 dB
   -3. dB beam width: 27.24 deg
   -6. dB beam width: 38.45 deg
   -10. dB beam width: 49.22 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -0.27 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
----    ---------    -------  ---------  ---
7       1.4759  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 1510.9MHz: -3.3757dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -3.3757  dBi
Max far-field (global) = -45.26241  dB, Max far-field (plot) =
-45.26247  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -138.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

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

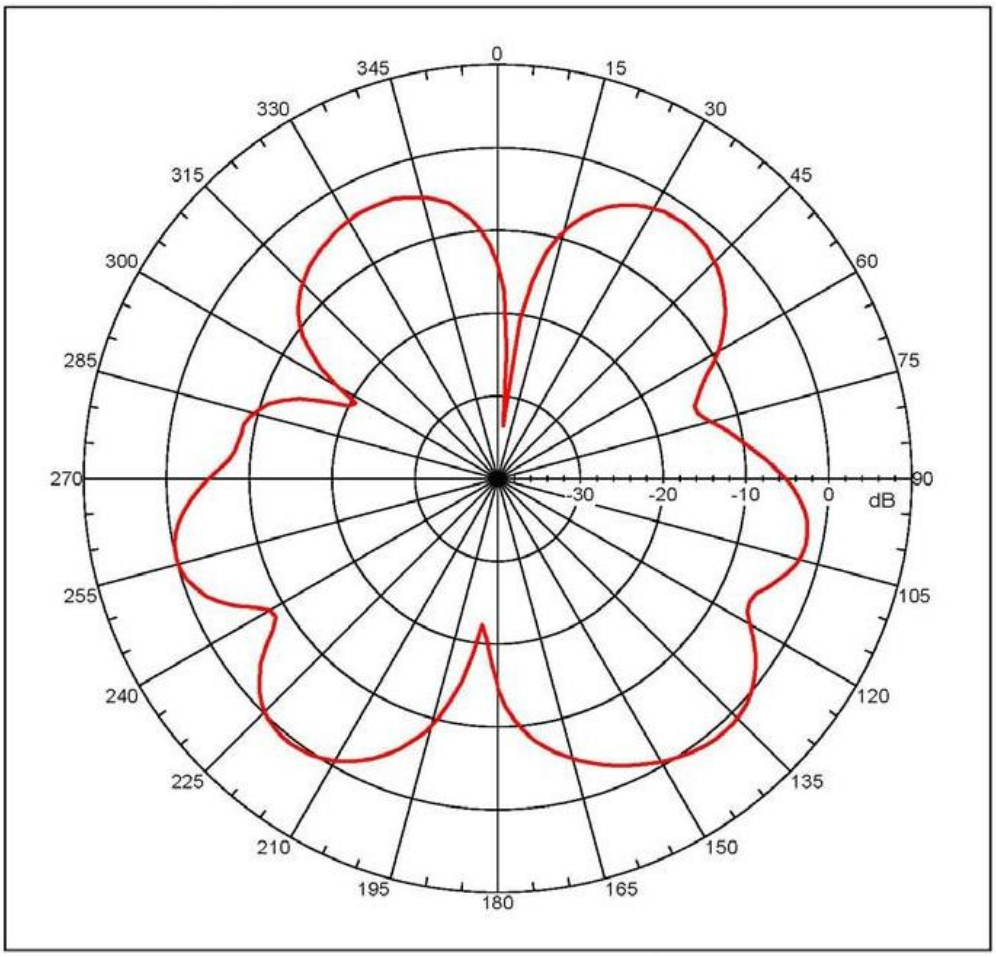
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -9.130 dB
   -3. dB beam width: 27.89 deg
   -6. dB beam width: 38.88 deg
   -10. dB beam width: 49.97 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -2.01 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 15
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
8       1.5109  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 1710MHz: 1.06143dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
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: 138.000  deg, Vpeak at: 0.000  deg
Plot centering: On

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

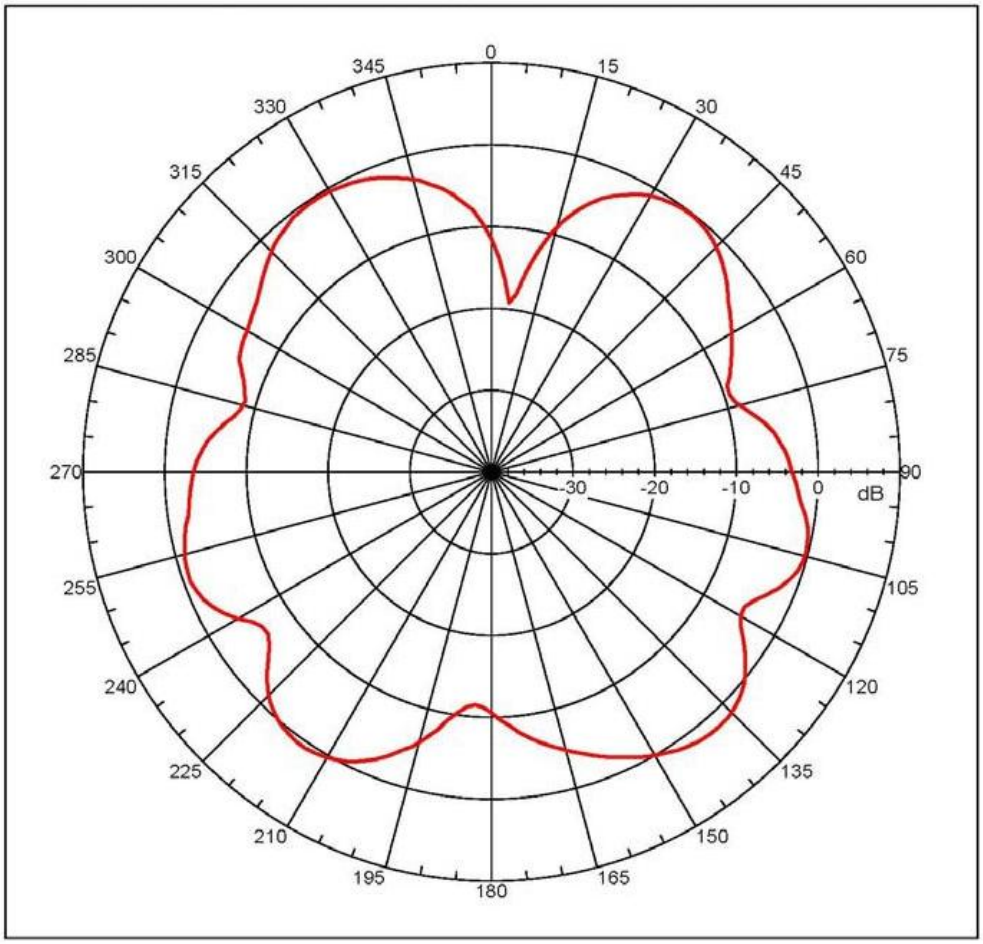
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.954 dB
   -3. dB beam width: 30.67 deg
   -6. dB beam width: 45.35 deg
   -10. dB beam width: 90.30 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
```


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E Plane 1800MHz: 1.76763dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.76763  dBi
Max far-field (global) = -45.05441  dB, Max far-field (plot) =
-45.05445  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 138.000  deg, Vpeak at: 0.000  deg
Plot centering: On

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

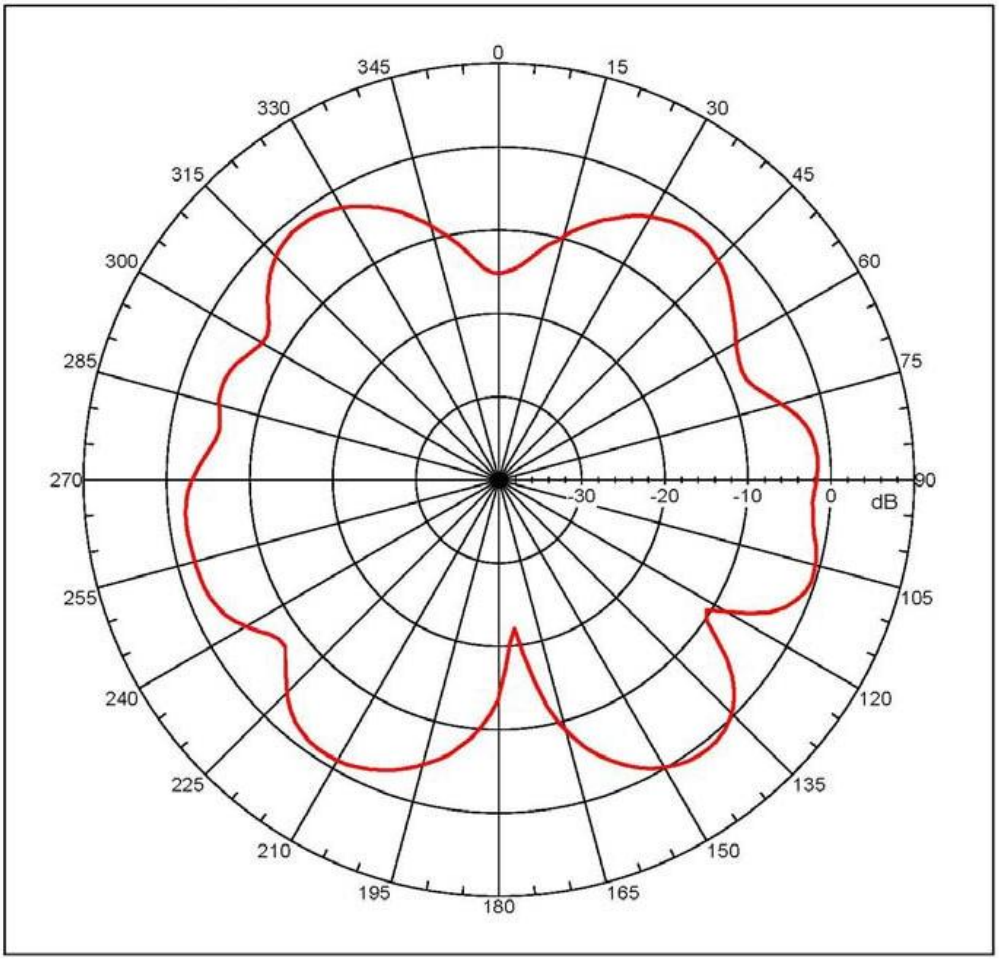
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -3.262 dB
   -3. dB beam width: 27.47 deg
   -6. dB beam width: 42.18 deg
   -10. dB beam width: 99.37 deg
   Left Sidelobe: -2.05 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
----    ---------   -------  ---------  ---
10      1.800  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 1900MHz: 0.96073dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.96073  dBi
Max far-field (global) = -46.07623  dB, Max far-field (plot) =
-46.07631  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

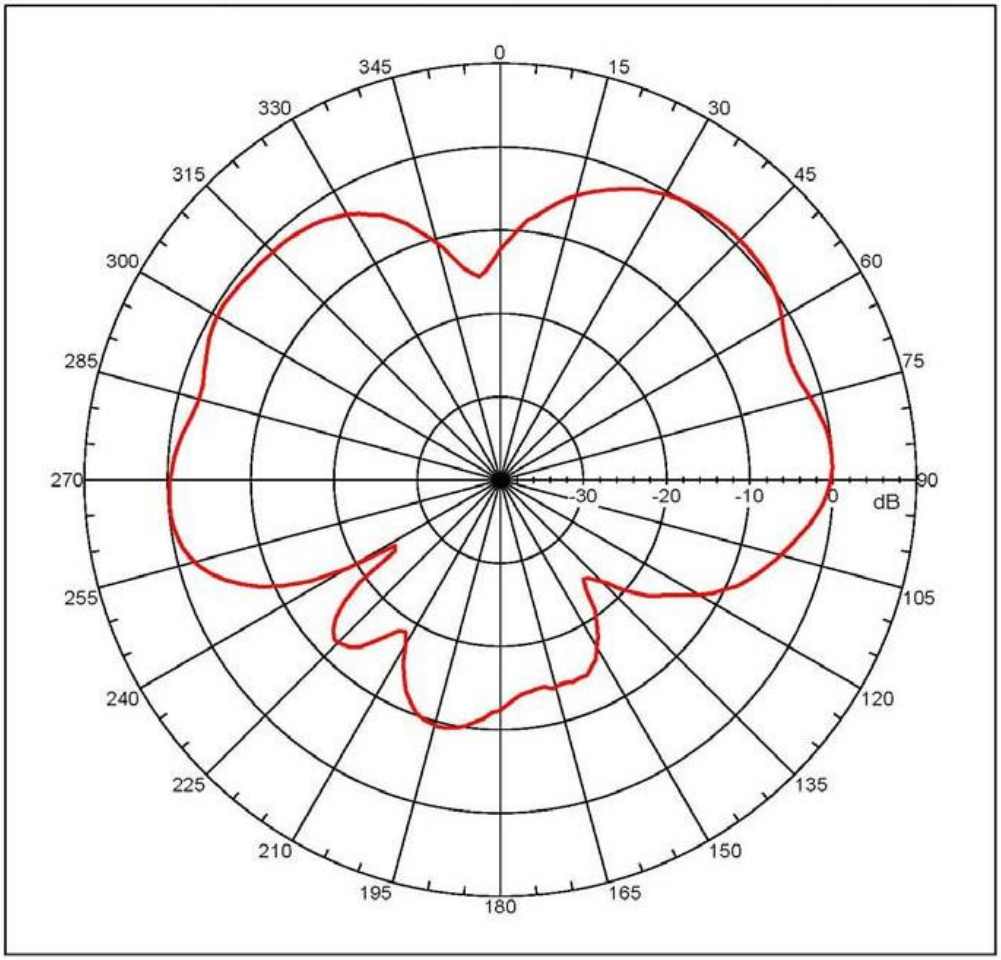
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.289 dB
   -3. dB beam width: 23.40 deg
   -6. dB beam width: 32.35 deg
   -10. dB beam width: 40.59 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
```


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E Plane 2170MHz: 0.72134dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.72134  dBi
Max far-field (global) = -46.81077  dB, Max far-field (plot) =
-46.81082  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 43.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

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

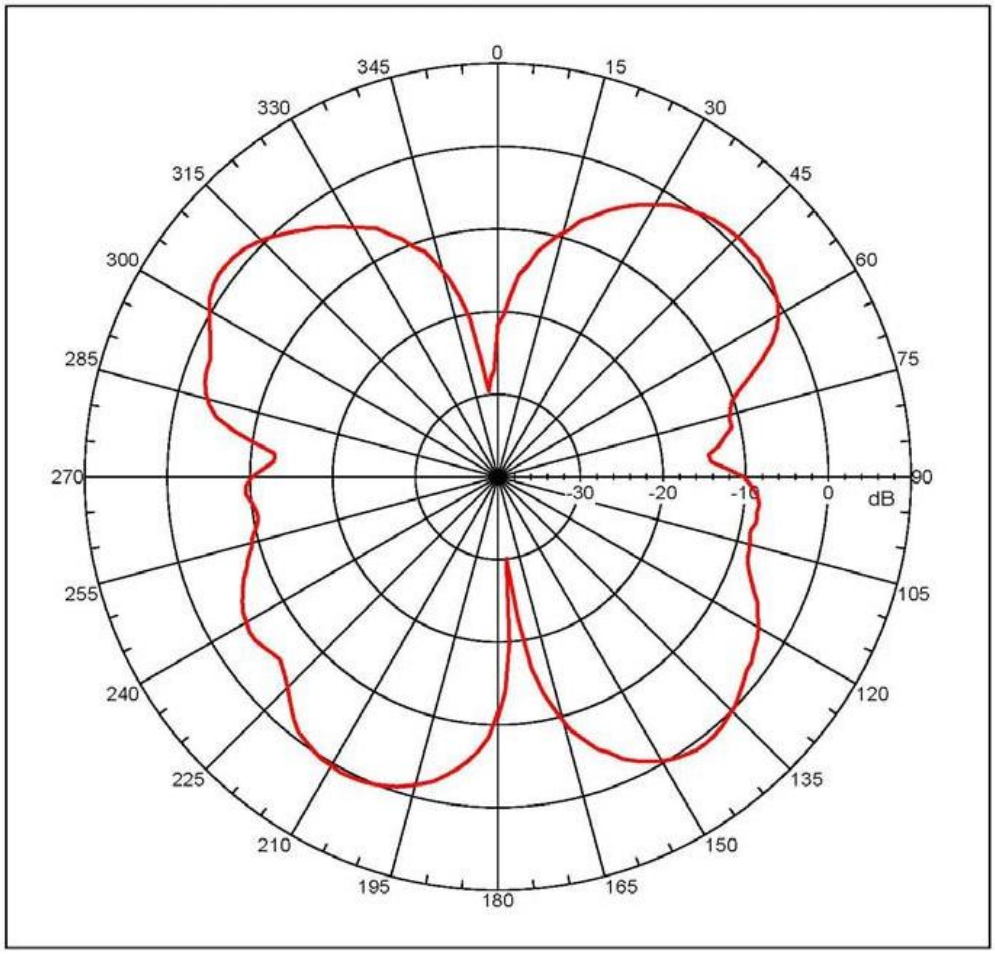
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.247 dB
   -3. dB beam width: 45.11 deg
   -6. dB beam width: 92.49 deg
   -10. dB beam width: 110.41 deg
   Left Sidelobe: -1.37 dB at -57.318  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
```


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E Plane 2400MHz: 1.73269dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.73269  dBi
Max far-field (global) = -47.27494  dB, Max far-field (plot) =
-47.27498  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -54.000  deg, Vpeak at: 0.000  deg
Plot centering: On

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

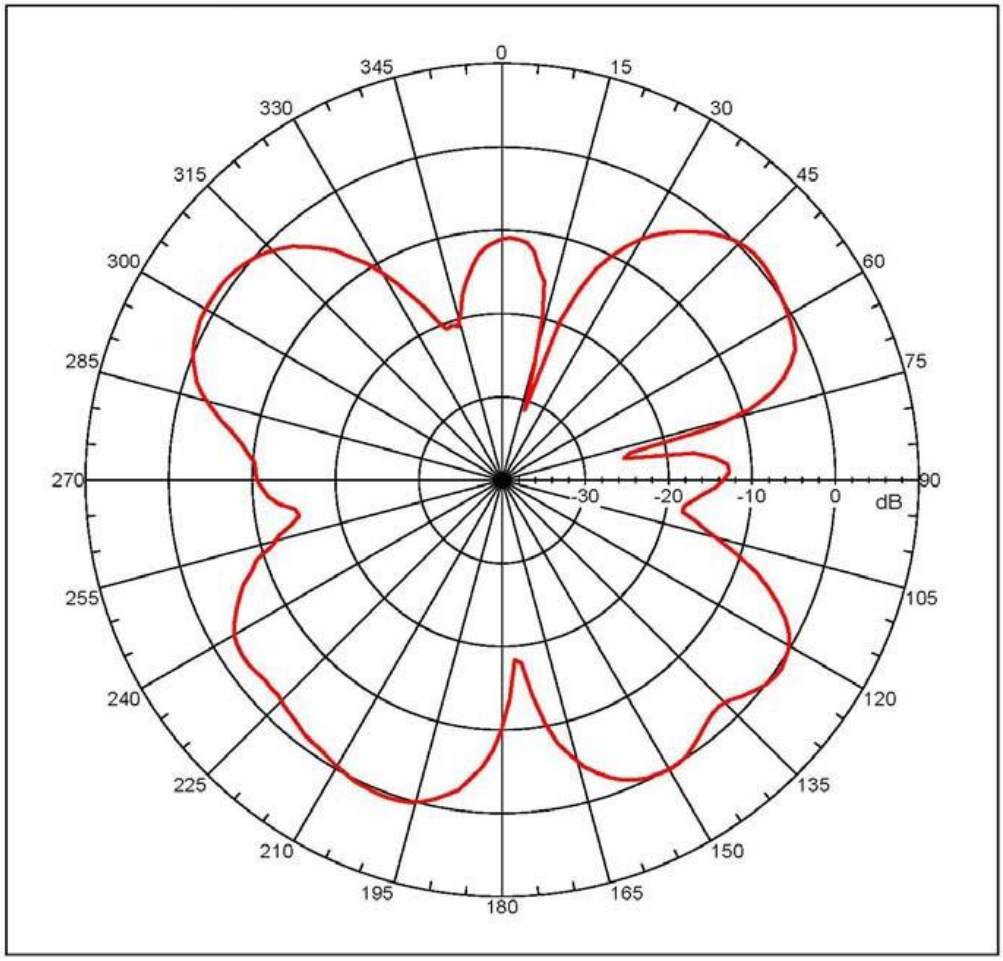
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.358 dB
   -3. dB beam width: 23.86 deg
   -6. dB beam width: 44.51 deg
   -10. dB beam width: 57.59 deg
   Left Sidelobe: -11.18 dB at -93.520  deg
   Right Sidelobe: -0.66 dB at 47.263  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
----    ---------   -------  ---------  ---
13      2.400  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 2500MHz: 1.04758dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.04758  dBi
Max far-field (global) = -49.08841  dB, Max far-field (plot) =
-49.08846  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

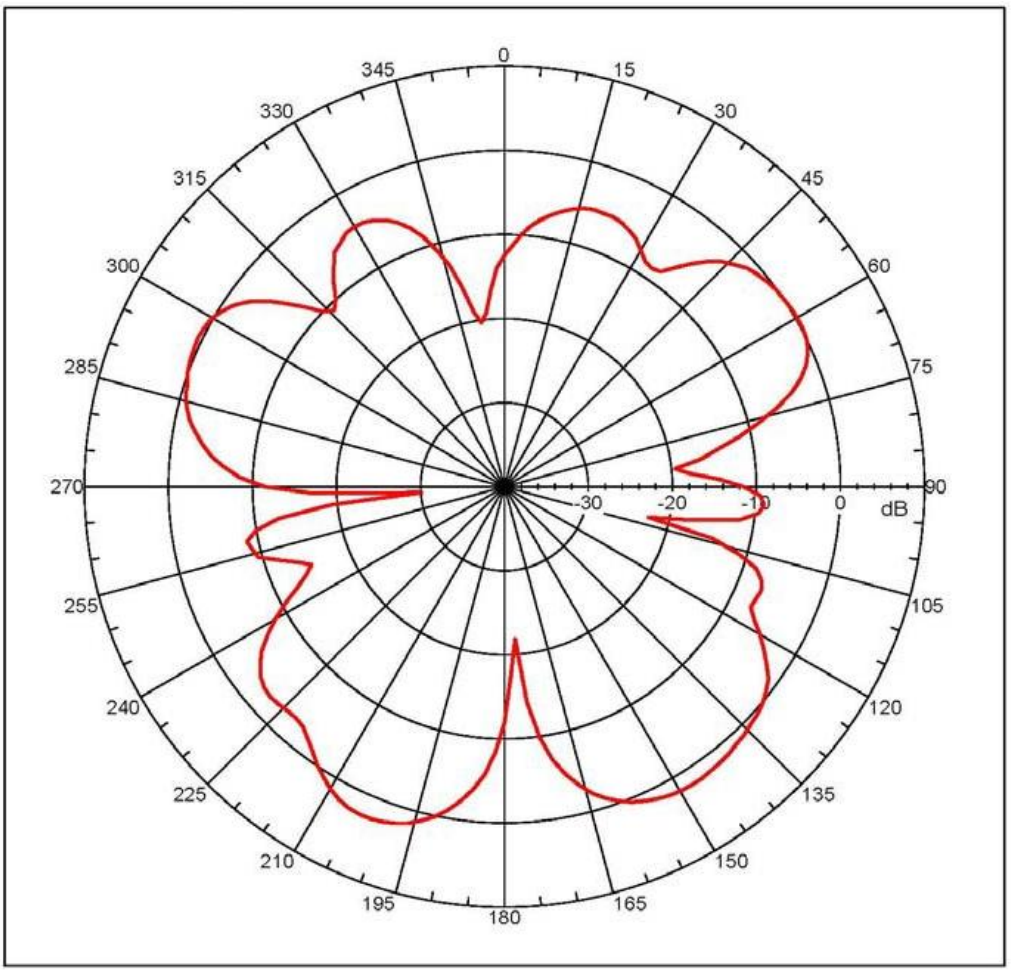
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.573 dB
   -3. dB beam width: 30.25 deg
   -6. dB beam width: 39.90 deg
   -10. dB beam width: 50.99 deg
   Left Sidelobe: -3.43 dB at -125.698  deg
   Right Sidelobe: -11.96 dB at 3.017  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
```


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E Plane 2600MHz: 2.59262dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-E.nsi




```
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

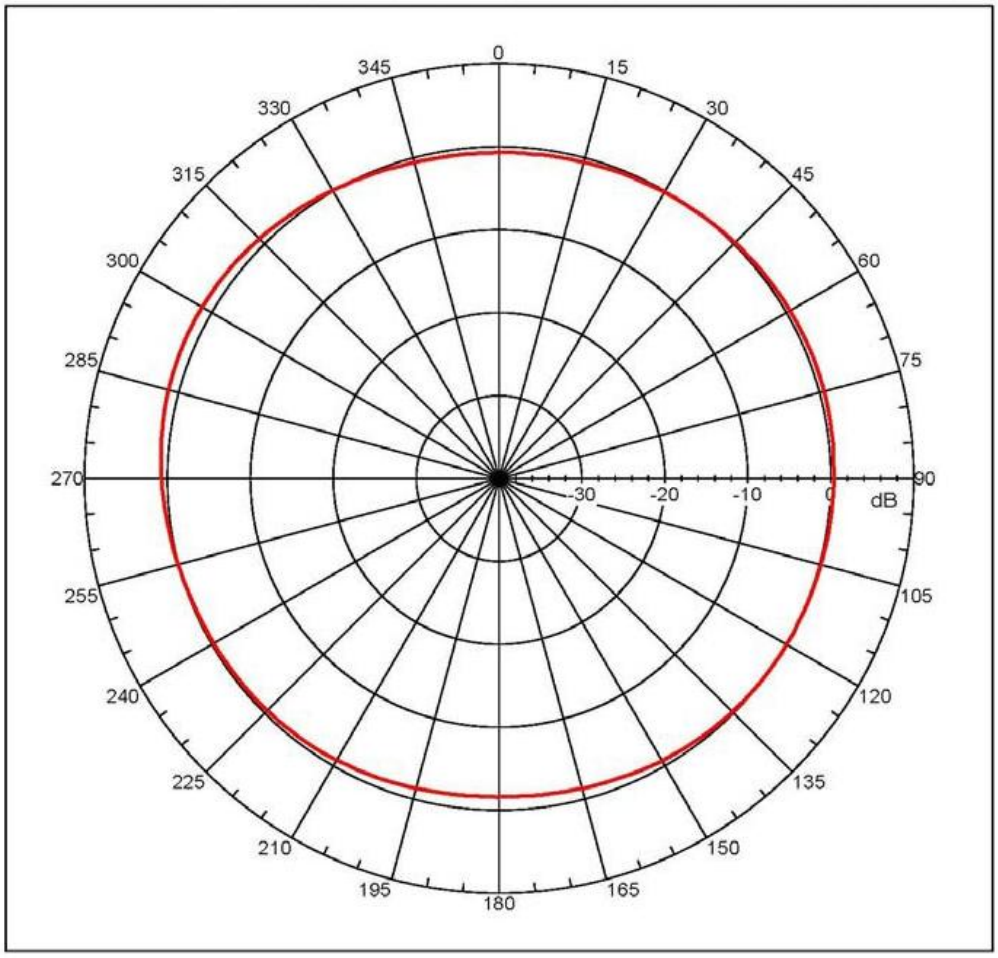
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-E.nsi
Measurement date/time: 7/1/2015 3:51:23 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.167 dB
   -3. dB beam width: 23.68 deg
   -6. dB beam width: 46.30 deg
   -10. dB beam width: 56.36 deg
   Left Sidelobe: Not Found
   Right Sidelobe: -11.26 dB at -101.564  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
```


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H Plane 806MHz: 1.37841dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.37841  dBi
Max far-field (global) = -41.36986  dB, Max far-field (plot) =
-41.36986  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -64.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

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

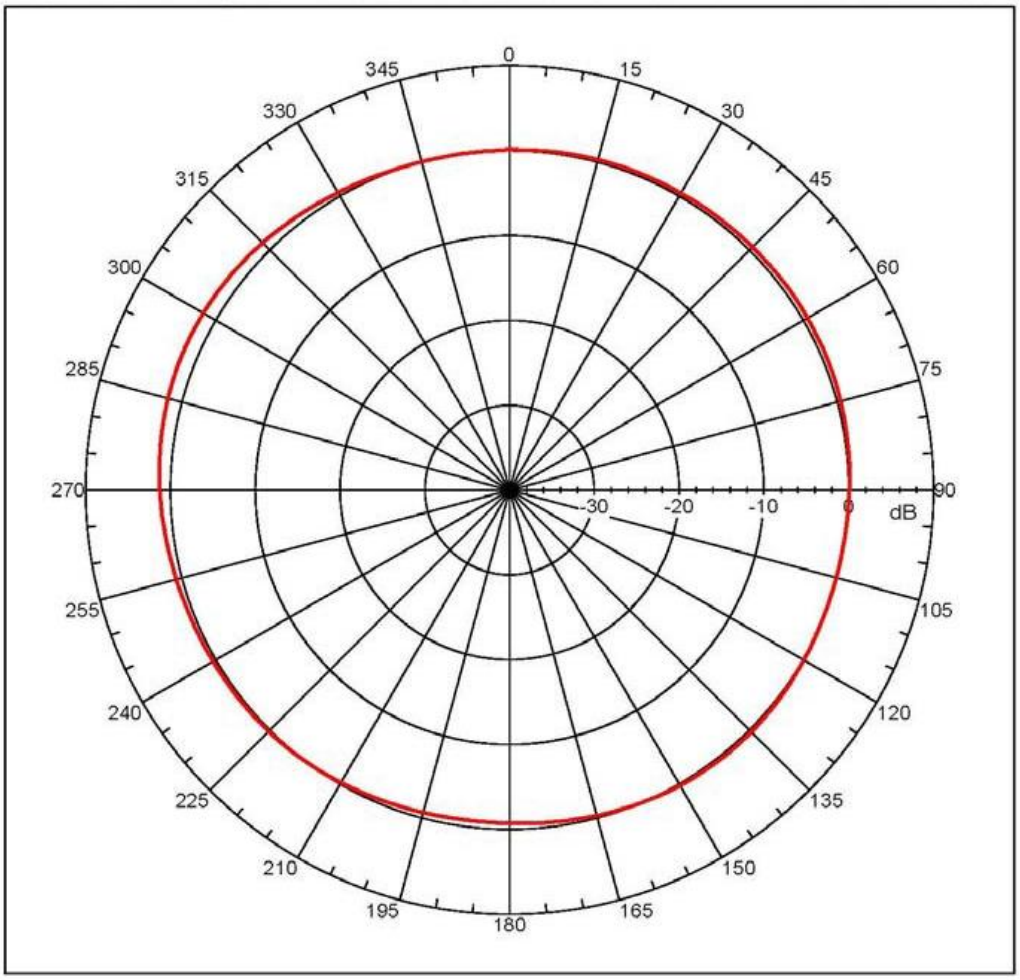
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:20 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -0.077 dB
   -3. dB beam width: Not Found
   -6. dB beam width: Not Found
   -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
```


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H Plane 824MHz: 1.77902dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.77902  dBi
Max far-field (global) = -41.22032  dB, Max far-field (plot) =
-41.22033  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -68.000  deg, Vpeak at: 0.000  deg
Plot centering: On

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

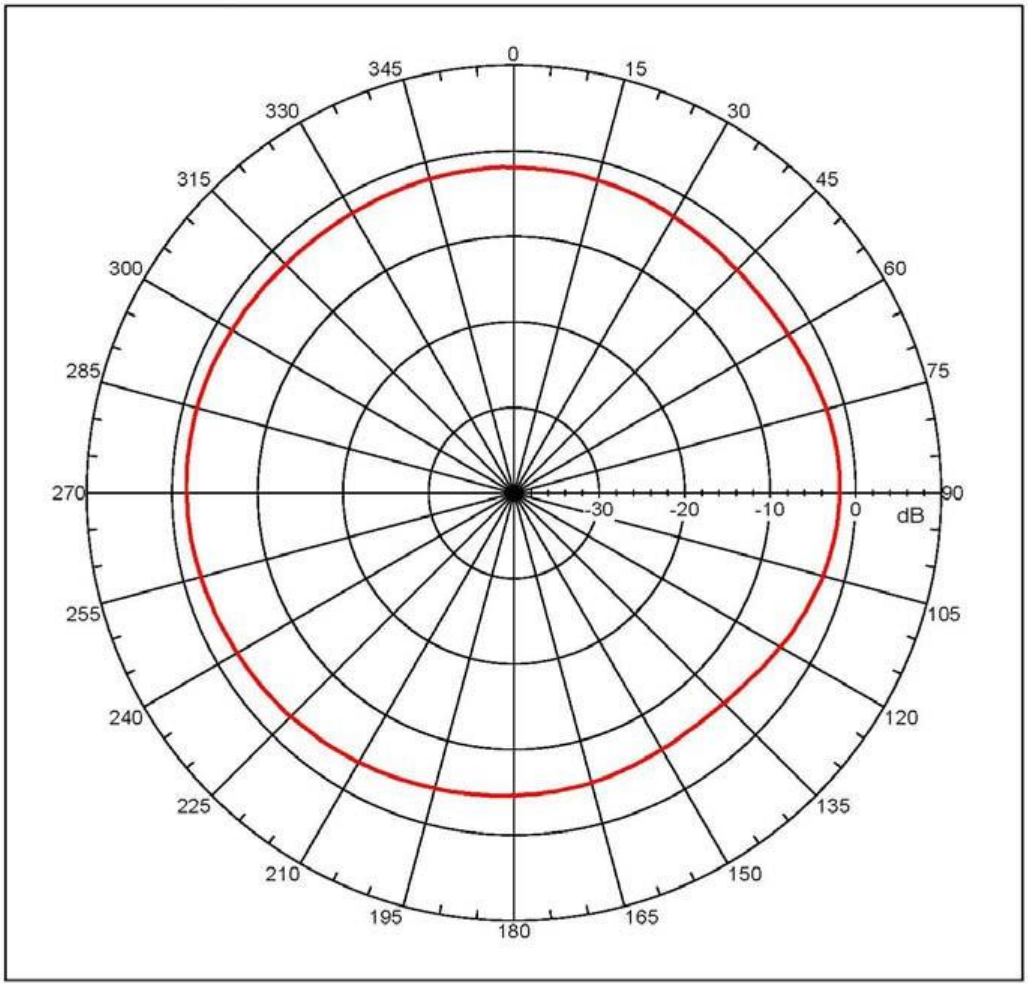
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: 0.371 dB
   -3. dB beam width: Not Found
   -6. dB beam width: Not Found
   -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
```


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H Plane 850MHz: -1.60185dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -1.60185  dBi
Max far-field (global) = -42.85871  dB, Max far-field (plot) =
-42.85872  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -76.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

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

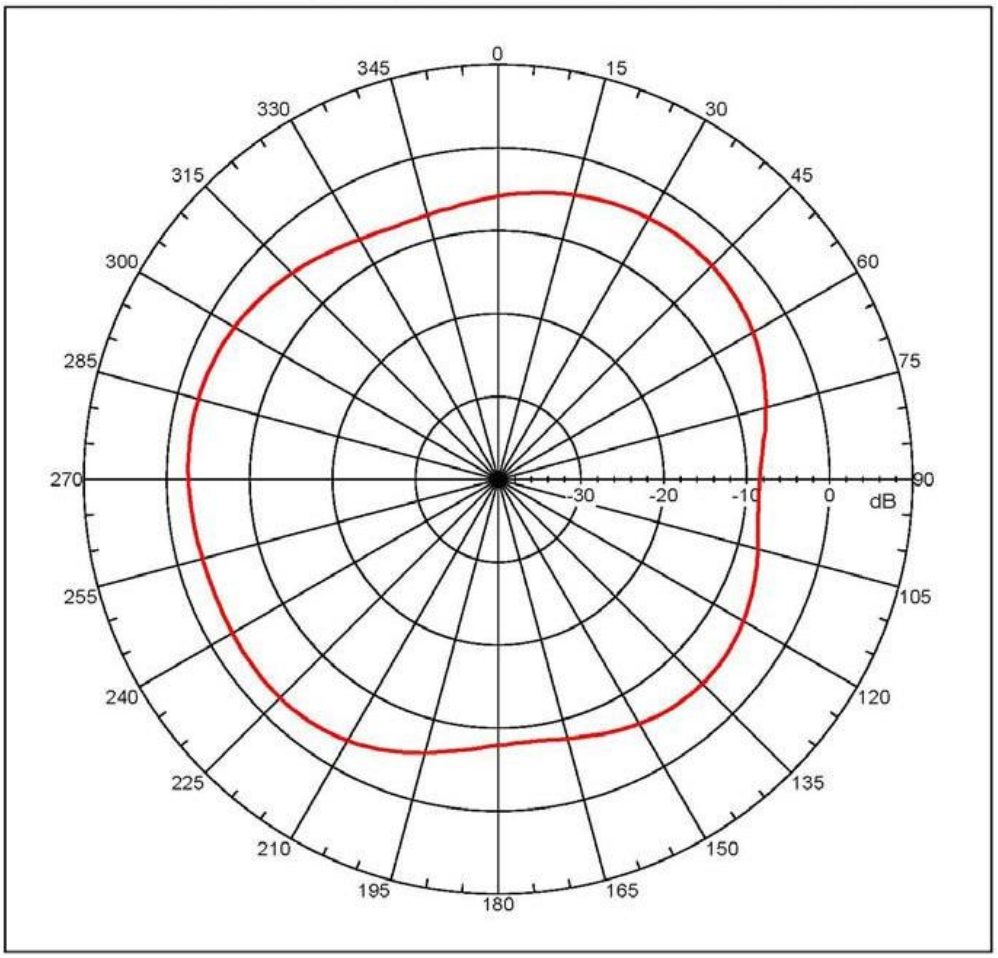
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -2.887 dB
   -3. dB beam width: Not Found
   -6. dB beam width: Not Found
   -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
----    ---------   -------  ---------  ---
3       0.850  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 900MHz: -2.47165dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -2.47165  dBi
Max far-field (global) = -44.03133  dB, Max far-field (plot) =
-44.03134  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

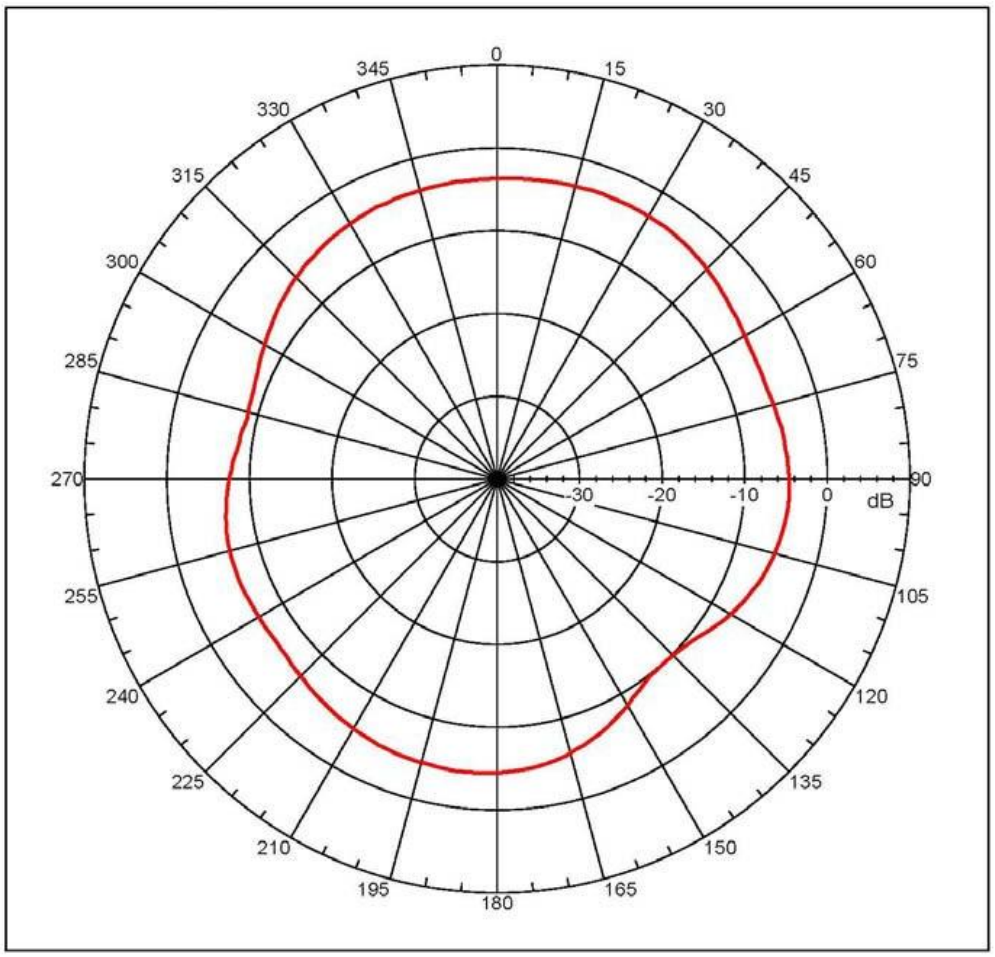
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -4.919 dB
   -3. dB beam width: 123.69 deg
   -6. dB beam width: Not Found
   -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
```


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H Plane 960MHz: -3.26146dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -3.26146  dBi
Max far-field (global) = -45.89113  dB, Max far-field (plot) =
-45.89114  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

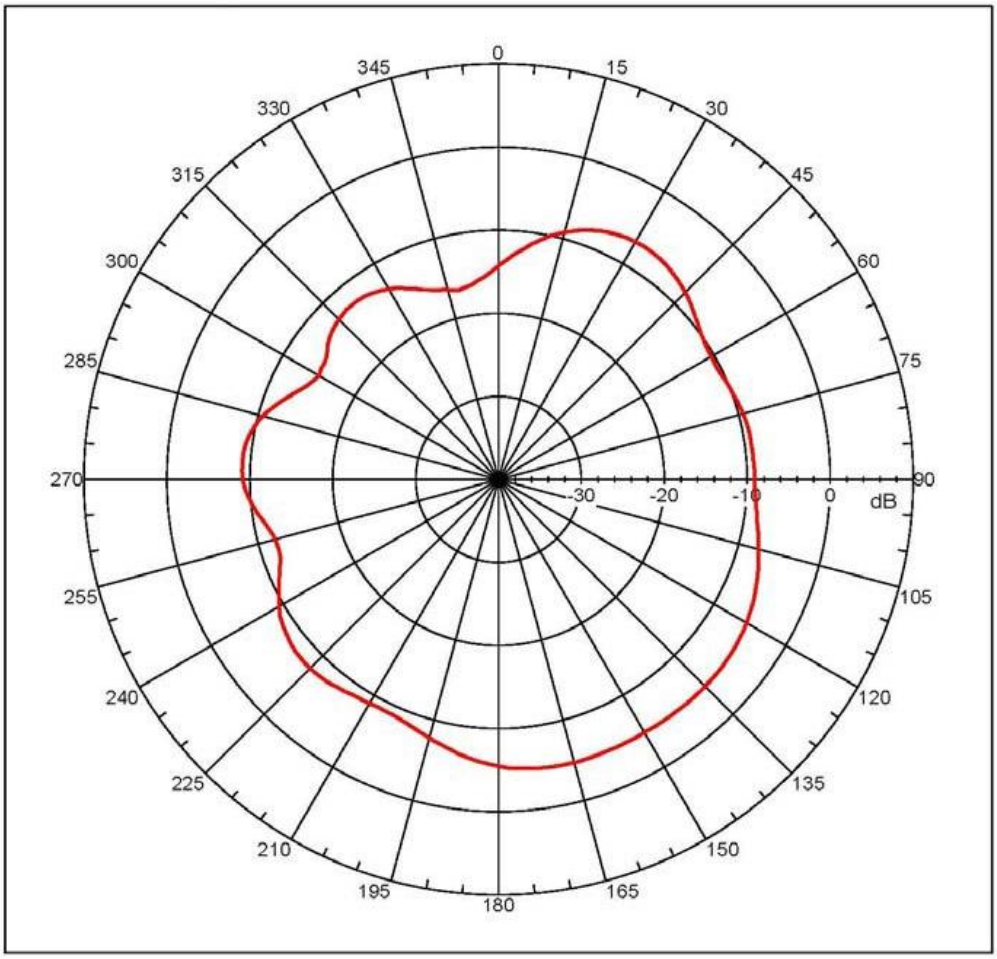
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.582 dB
   -3. dB beam width: 165.18 deg
   -6. dB beam width: Not Found
   -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
```


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H Plane 1427.9MHz: -4.70232dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -4.70232  dBi
Max far-field (global) = -46.35935  dB, Max far-field (plot) =
-46.35938  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 163.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

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

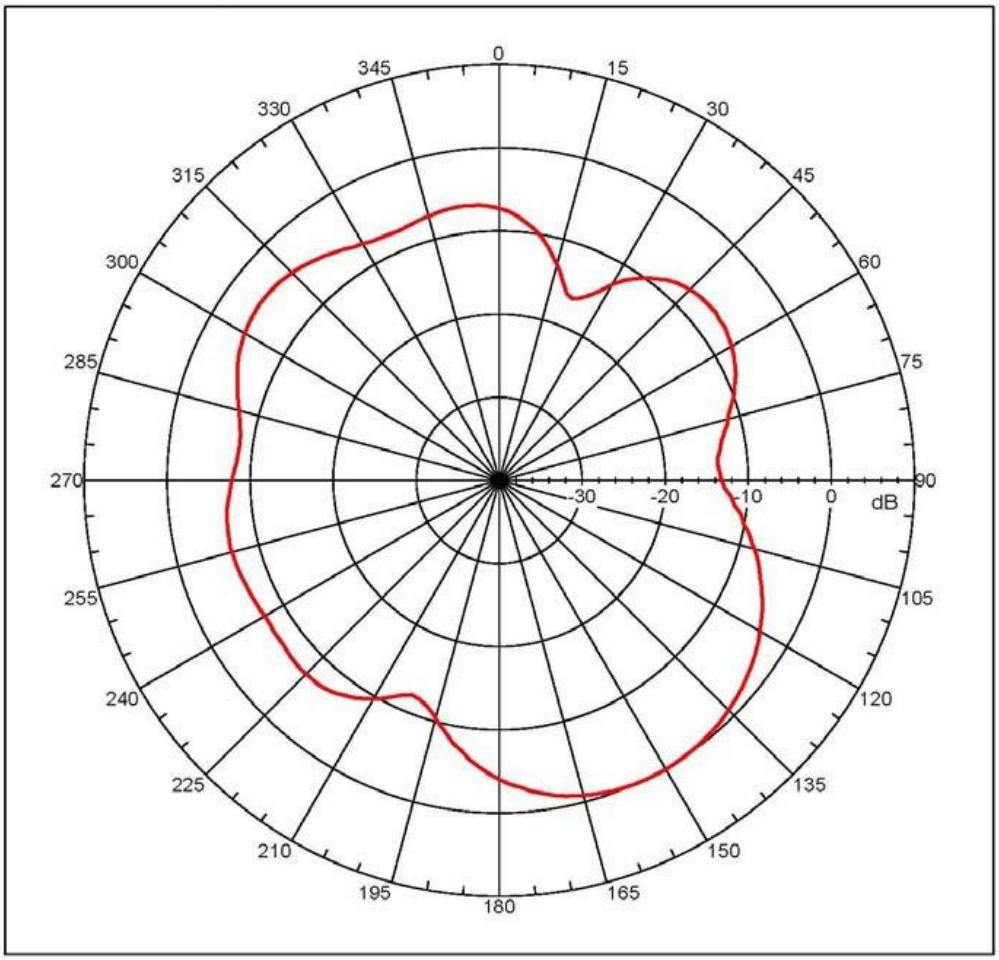
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -8.772 dB
   -3. dB beam width: Not Found
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -2.25 dB at 33.184  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
----    ---------    -------  ---------  ---
6       1.4279  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 1475.9MHz: 0.11461dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.11641  dBi
Max far-field (global) = -41.74924  dB, Max far-field (plot) =
-41.74929  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 150.000  deg, Vpeak at: 0.000  deg
Plot centering: On

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

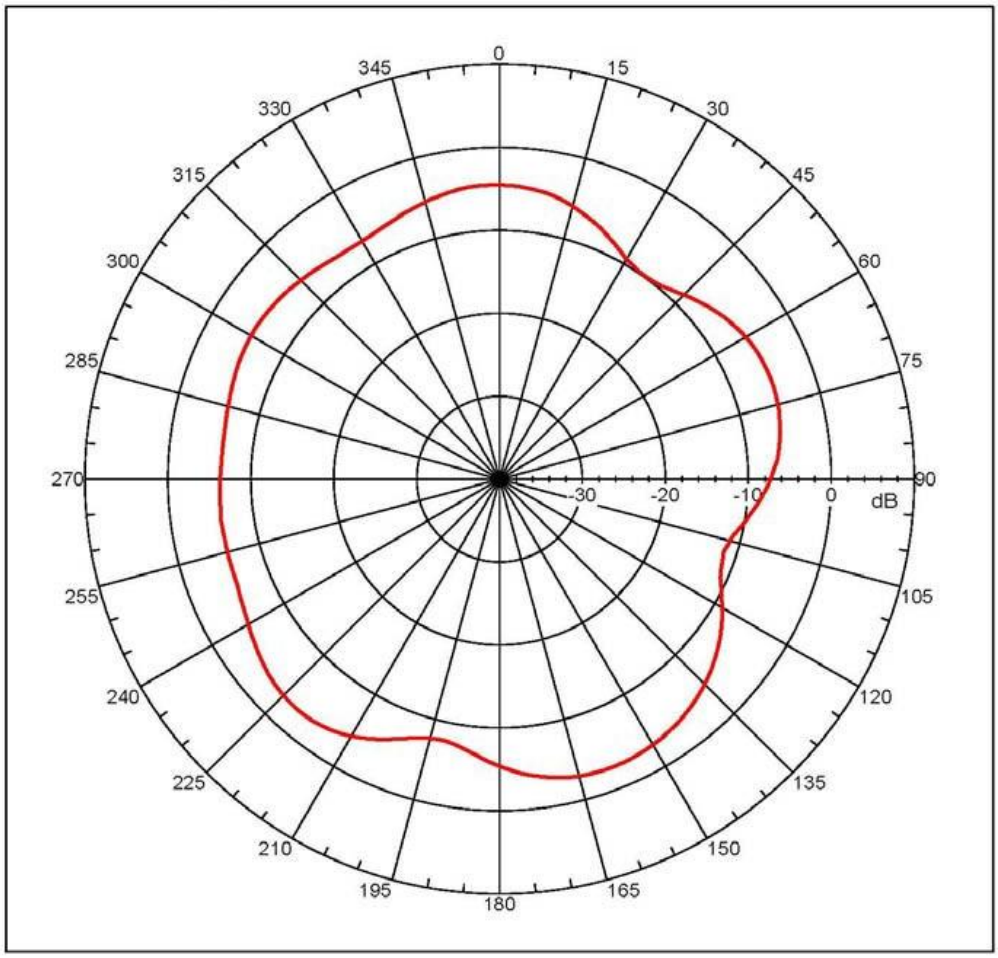
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:20 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -6.385 dB
   -3. dB beam width: 52.20 deg
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -7.31 dB at 57.318  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
----    ---------    -------  ---------  ---
7       1.4759  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 1510.9MHz: -2.69793dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -2.69793  dBi
Max far-field (global) = -44.58464  dB, Max far-field (plot) =
-44.58466  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 157.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

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

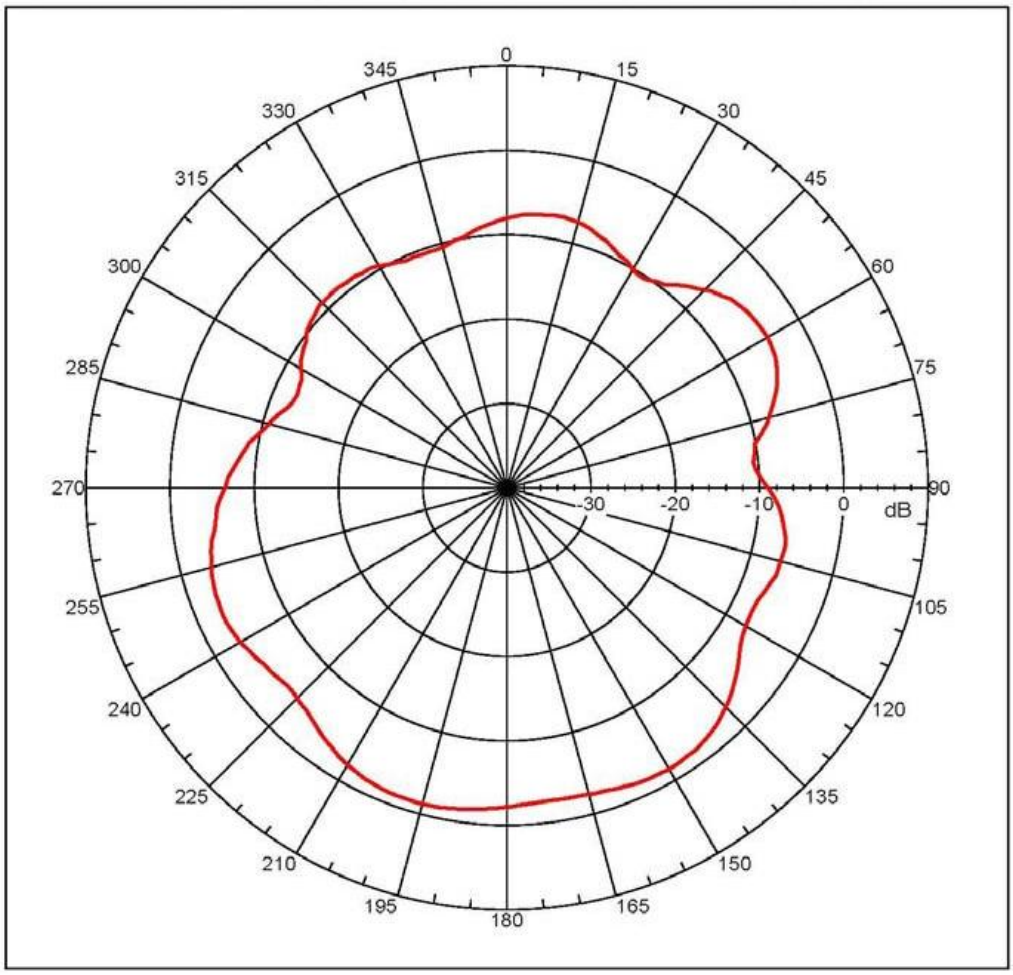
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.858 dB
   -3. dB beam width: Not Found
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -2.45 dB at 71.397  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
----    ---------    -------  ---------  ---
8       1.5109  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 1710MHz: -1.21375dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -1.21375  dBi
Max far-field (global) = -46.40634  dB, Max far-field (plot) =
-46.40638  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

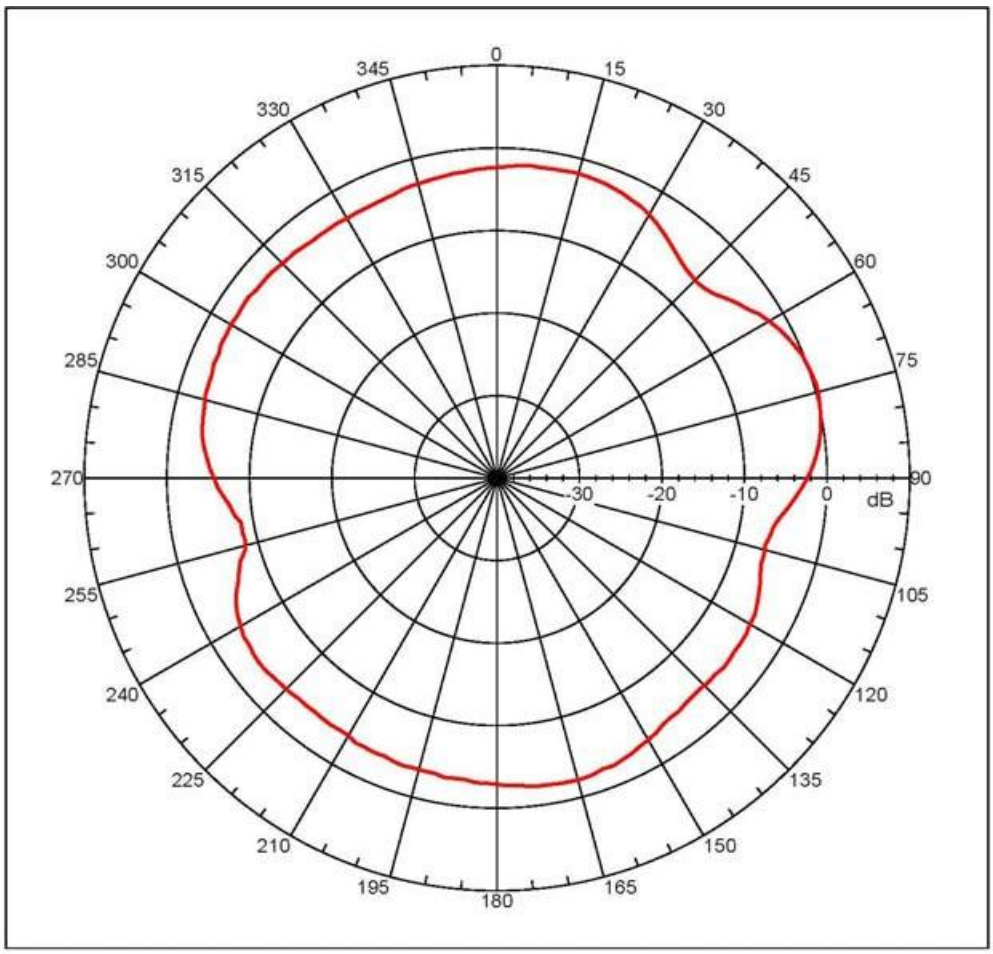
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.684 dB
   -3. dB beam width: Not Found
   -6. dB beam width: Not Found
   -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 = 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
```


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H Plane 1800MHz: 0.29161dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.29161  dBi
Max far-field (global) = -46.53043  dB, Max far-field (plot) =
-46.53048  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

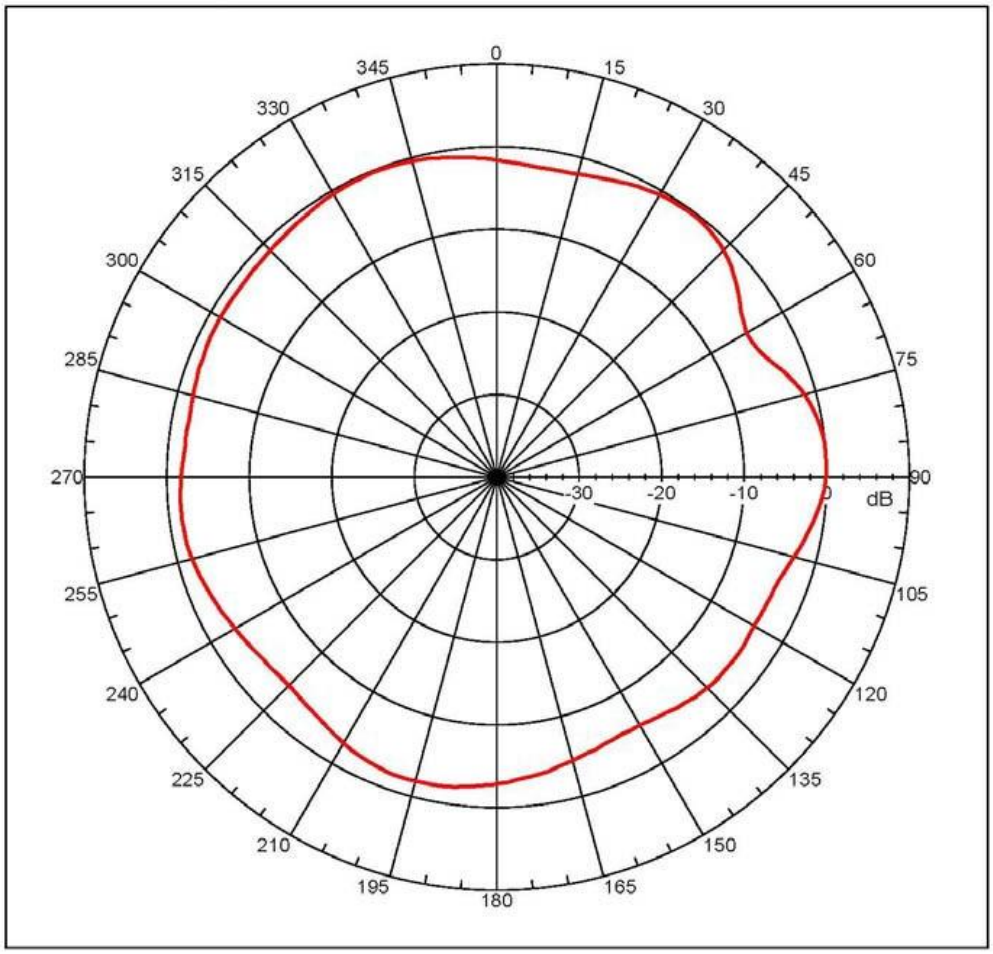
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -3.467 dB
   -3. dB beam width: 33.46 deg
   -6. dB beam width: 50.52 deg
   -10. dB beam width: Not Found
   Left Sidelobe: -2.12 dB at 15.084  deg
   Right Sidelobe: -4.63 dB at 125.698  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
```


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H Plane 1900MHz: -0.03944dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -0.03944  dBi
Max far-field (global) = -47.0764  dB, Max far-field (plot) =
-47.07641  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

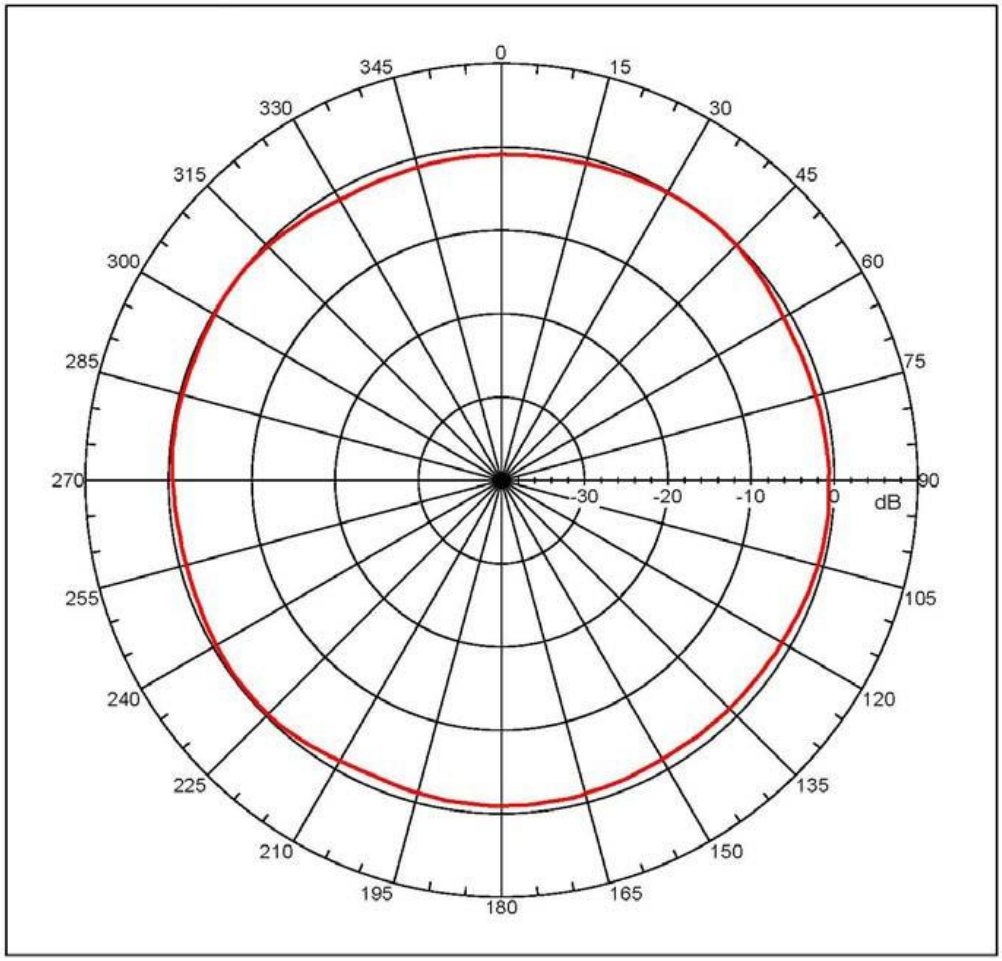
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -2.231 dB
   -3. dB beam width: 37.22 deg
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -0.27 dB at 37.207  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
```


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H Plane 2170MHz: 0.020dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 0.020  dBi
Max far-field (global) = -47.51211  dB, Max far-field (plot) =
-47.51212  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 39.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

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

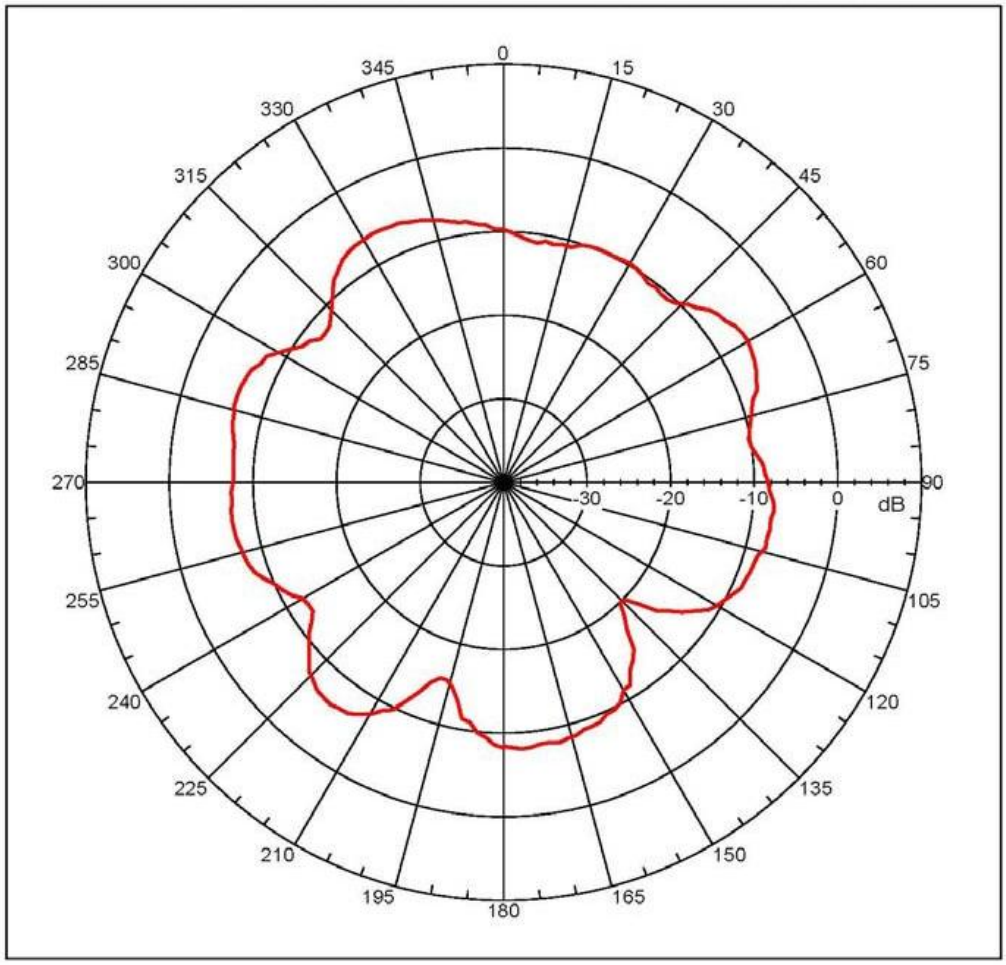
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -0.750 dB
   -3. dB beam width: Not Found
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -0.09 dB at -51.285  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
```


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H Plane 2400MHz: -6.23579dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
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

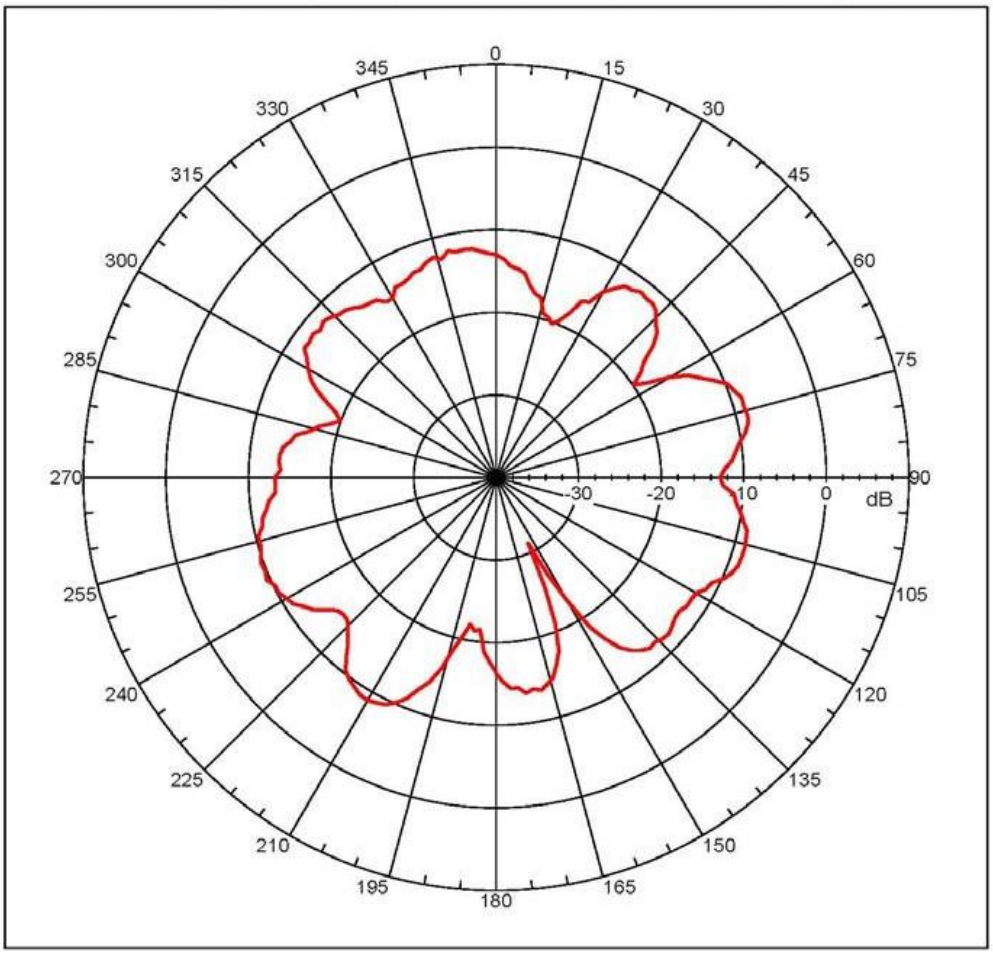
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -9.108 dB
   -3. dB beam width: 28.34 deg
   -6. dB beam width: 245.17 deg
   -10. dB beam width: Not Found
   Left Sidelobe: -0.32 dB at -21.117  deg
   Right Sidelobe: -1.24 dB at 97.542  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
----    ---------   -------  ---------  ---
13      2.400  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 2500MHz: -8.61832dBi

Far-field amplitude of 20150701-4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -8.61832  dBi
Max far-field (global) = -58.75431  dB, Max far-field (plot) =
-58.7544  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

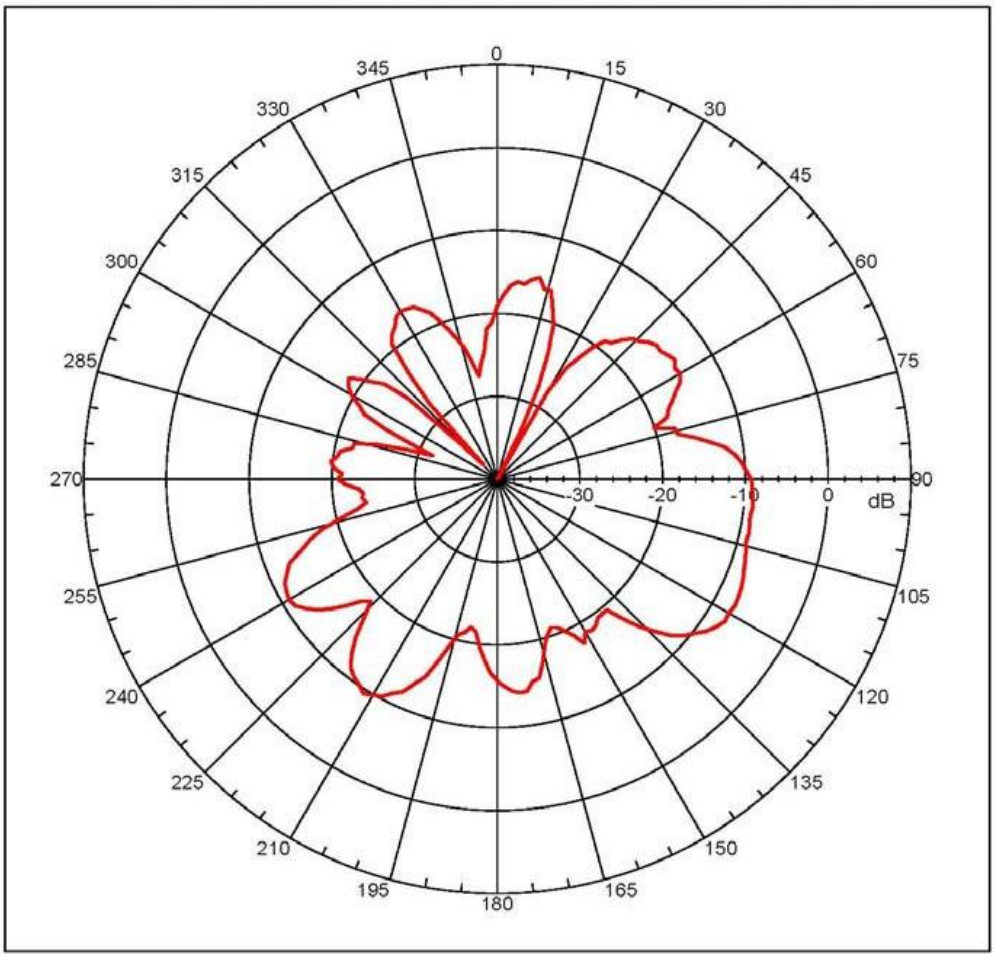
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -13.050 dB
   -3. dB beam width: 21.38 deg
   -6. dB beam width: 83.42 deg
   -10. dB beam width: 90.70 deg
   Left Sidelobe: -3.08 dB at 43.240  deg
   Right Sidelobe: -0.07 dB at 107.598  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
```


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H Plane 2600MHz: -7.49977dBi

Far-field amplitude of 20150701- 4G ANT+CABLE-3.5M-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -7.49977  dBi
Max far-field (global) = -57.81656  dB, Max far-field (plot) =
-57.81663  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

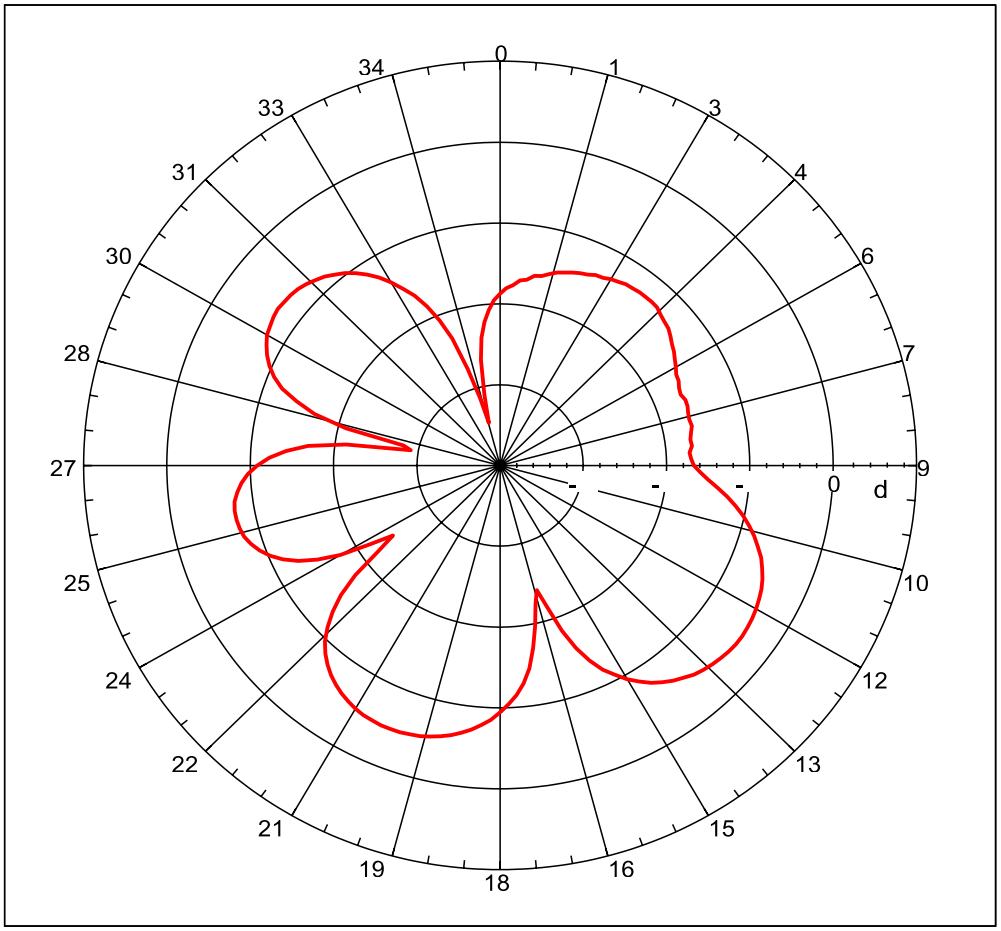
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
150701-4G ANT+CALBE-3.5M\20150701-4G ANT+CALBE-3.5M-H.nsi
Measurement date/time: 7/1/2015 3:36:28 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -15.671 dB
   -3. dB beam width: 44.15 deg
   -6. dB beam width: 53.56 deg
   -10. dB beam width: 62.50 deg
   Left Sidelobe: -7.01 dB at 61.341  deg
   Right Sidelobe: -10.04 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
```


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E Plane 817.5MHz: -4.06977dBi

Far-field amplitude of 20170322-B-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -4.06977  dBi
Max far-field (global) = -46.50394  dB, Max far-field (plot) =
-46.50395  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 128.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-E

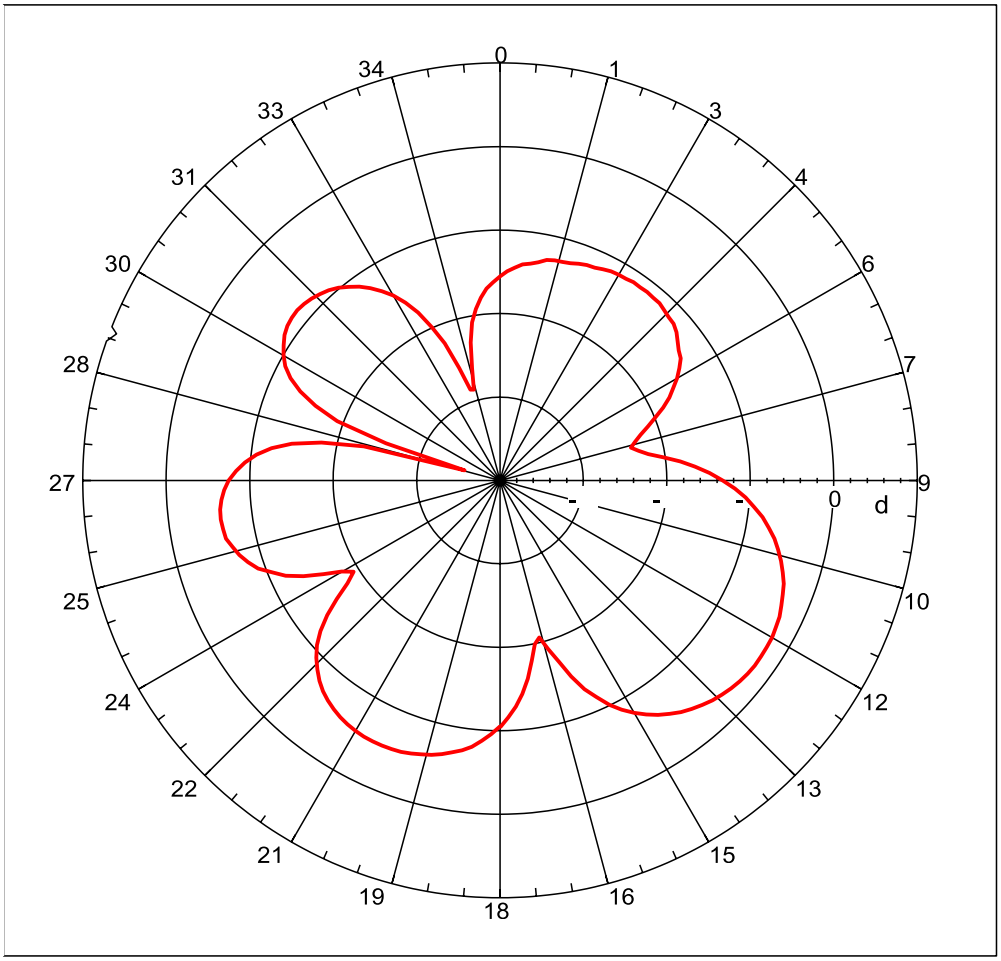
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-E.nsi
Measurement date/time: 3/22/2017 2:10:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -10.895 dB
   -3. dB beam width: 35.81 deg
   -6. dB beam width: 49.02 deg
   -10. dB beam width: 61.28 deg
   Left Sidelobe: -8.72 dB at 43.240  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
1       0.8175  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 822.5MHz: -2.2568dBi

Far-field amplitude of 20170322-B-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -2.2568  dBi
Max far-field (global) = -44.44397  dB, Max far-field (plot) =
-44.44398  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 126.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-E

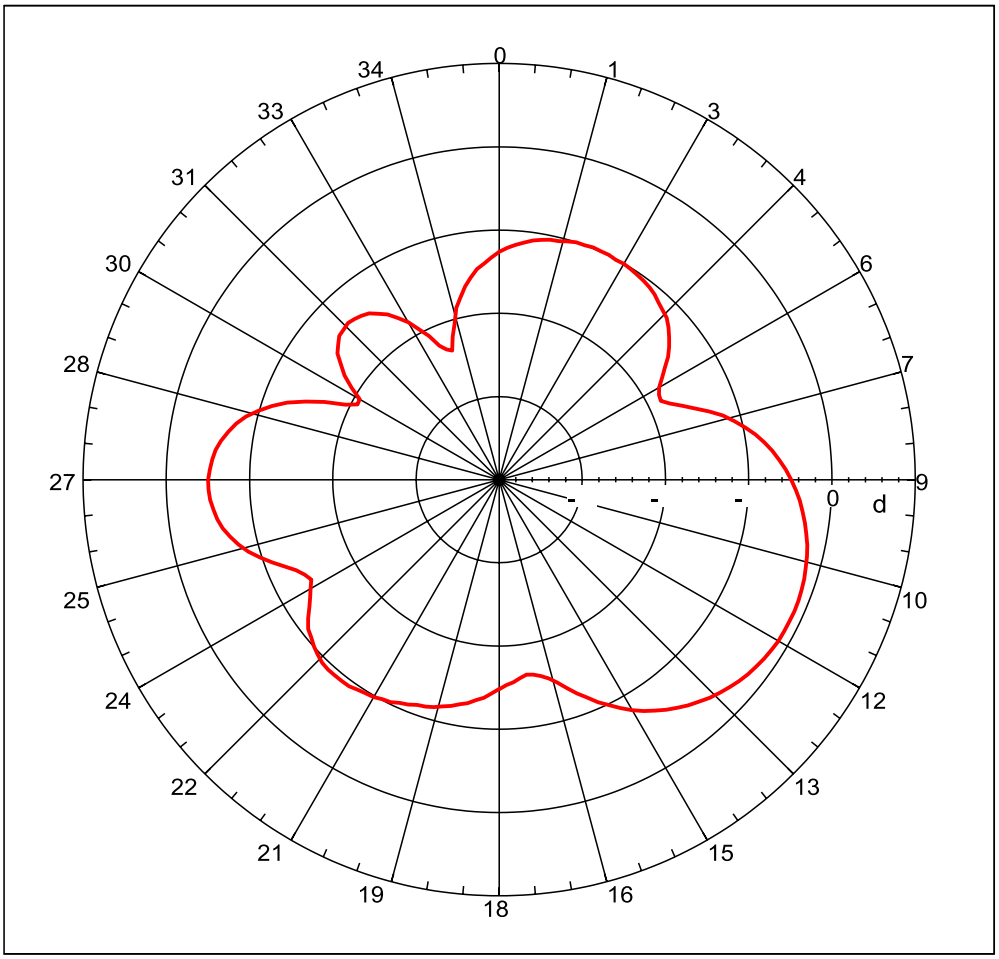
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-E.nsi
Measurement date/time: 3/22/2017 2:10:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -10.018 dB
   -3. dB beam width: 38.52 deg
   -6. dB beam width: 53.14 deg
   -10. dB beam width: 65.87 deg
   Left Sidelobe: -9.12 dB at 39.218  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
2       0.8225  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 827.5MHz: -1.16914dBi

Far-field amplitude of 20170322-B-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -1.16914  dBi
Max far-field (global) = -43.27431  dB, Max far-field (plot) =
-43.27434  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 113.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-E

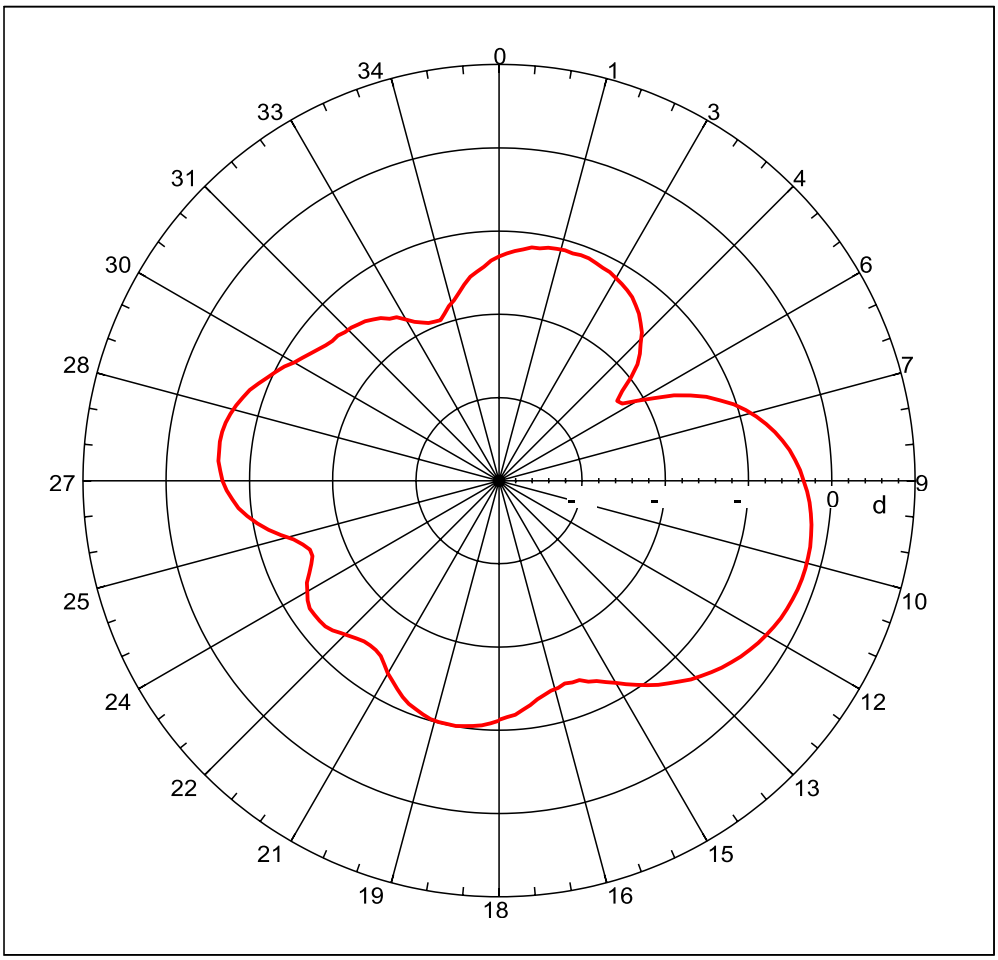
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-E.nsi
Measurement date/time: 3/22/2017 2:10:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -9.425 dB
   -3. dB beam width: 45.91 deg
   -6. dB beam width: 64.57 deg
   -10. dB beam width: 81.77 deg
   Left Sidelobe: -8.89 dB at 31.173  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
3       0.8275  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 832.5MHz: -1.70009dBi

Far-field amplitude of 20170322-B-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -1.70009  dBi
Max far-field (global) = -43.68826  dB, Max far-field (plot) =
-43.68828  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 105.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-E

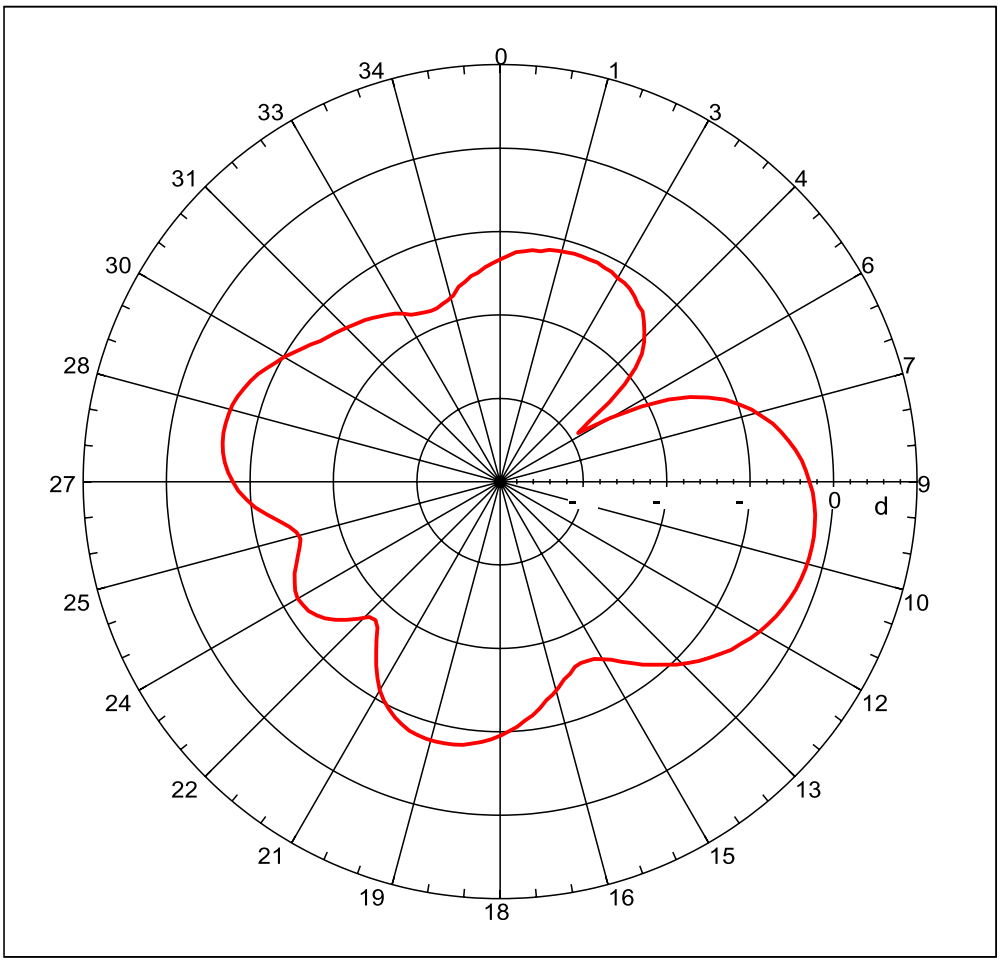
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-E.nsi
Measurement date/time: 3/22/2017 2:10:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -10.029 dB
   -3. dB beam width: 44.13 deg
   -6. dB beam width: 61.90 deg
   -10. dB beam width: 79.69 deg
   Left Sidelobe: -9.46 dB at 21.117  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
4       0.8325  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 837.5MHz: -1.79169dBi

Far-field amplitude of 20170322-B-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -1.79169  dBi
Max far-field (global) = -43.62197  dB, Max far-field (plot) =
-43.62197  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 102.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-E

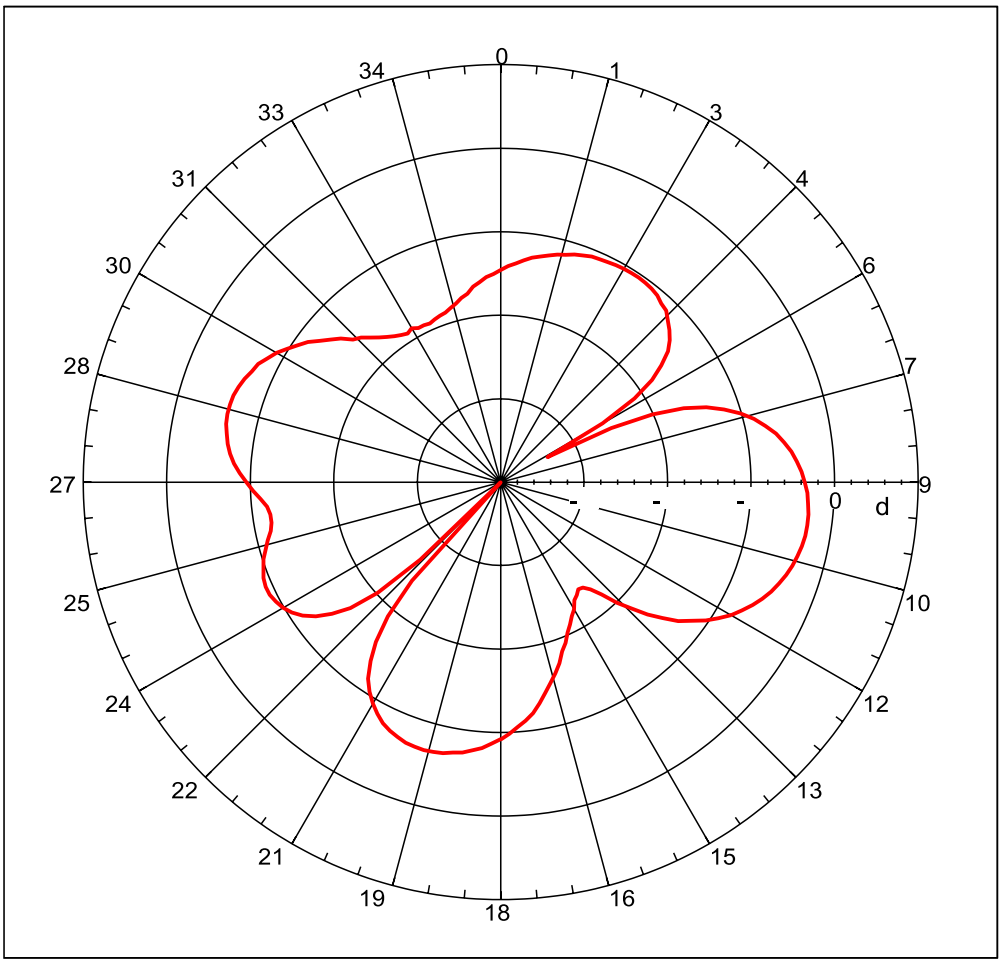
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-E.nsi
Measurement date/time: 3/22/2017 2:10:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -10.103 dB
   -3. dB beam width: 40.26 deg
   -6. dB beam width: 56.46 deg
   -10. dB beam width: 72.03 deg
   Left Sidelobe: -9.45 dB at 25.140  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
5       0.8375  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 842.5MHz: -2.91804dBi

Far-field amplitude of 20170322-B-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -2.91804  dBi
Max far-field (global) = -44.67643  dB, Max far-field (plot) =
-44.67644  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 97.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-E

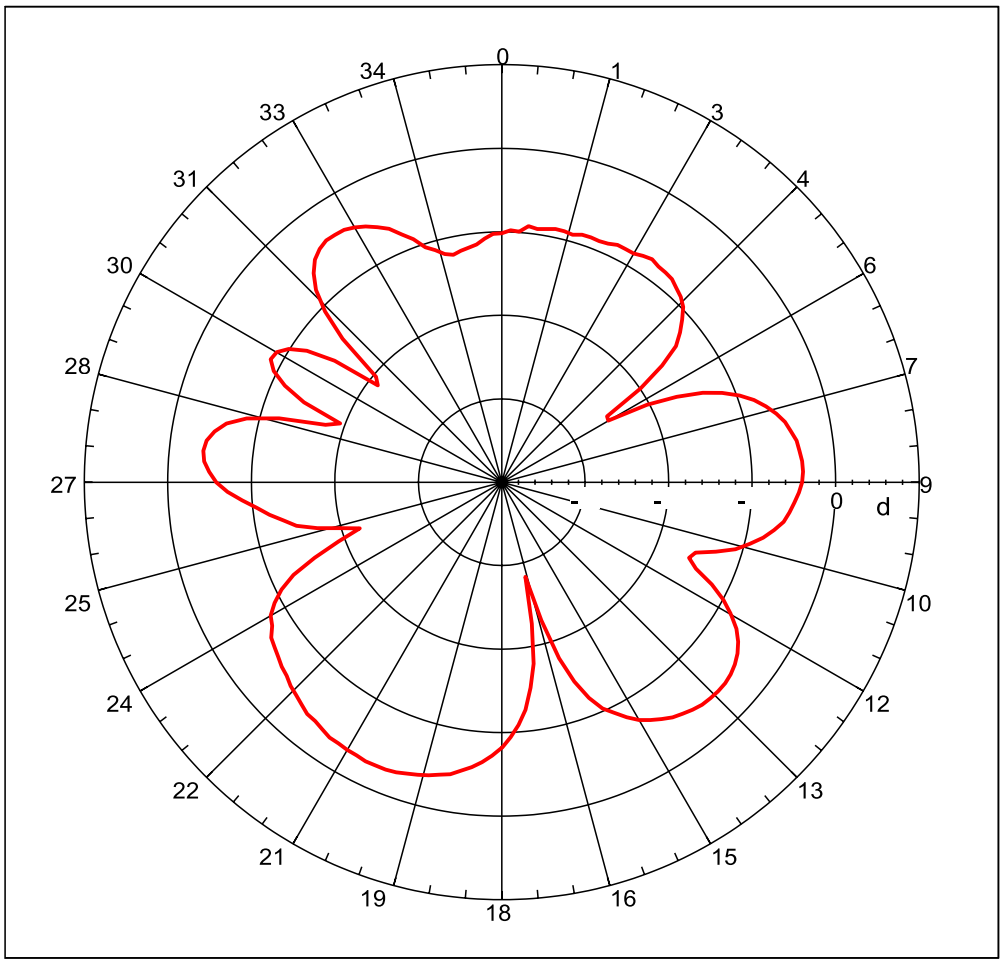
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-E.nsi
Measurement date/time: 3/22/2017 2:10:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -10.864 dB
   -3. dB beam width: 33.28 deg
   -6. dB beam width: 45.97 deg
   -10. dB beam width: 57.31 deg
   Left Sidelobe: -7.52 dB at 33.184  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
6       0.8425  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 1922.5MHz: -2.80785dBi

Far-field amplitude of 20170322-B-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -2.80785  dBi
Max far-field (global) = -50.31135  dB, Max far-field (plot) =
-50.31146  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -154.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-E

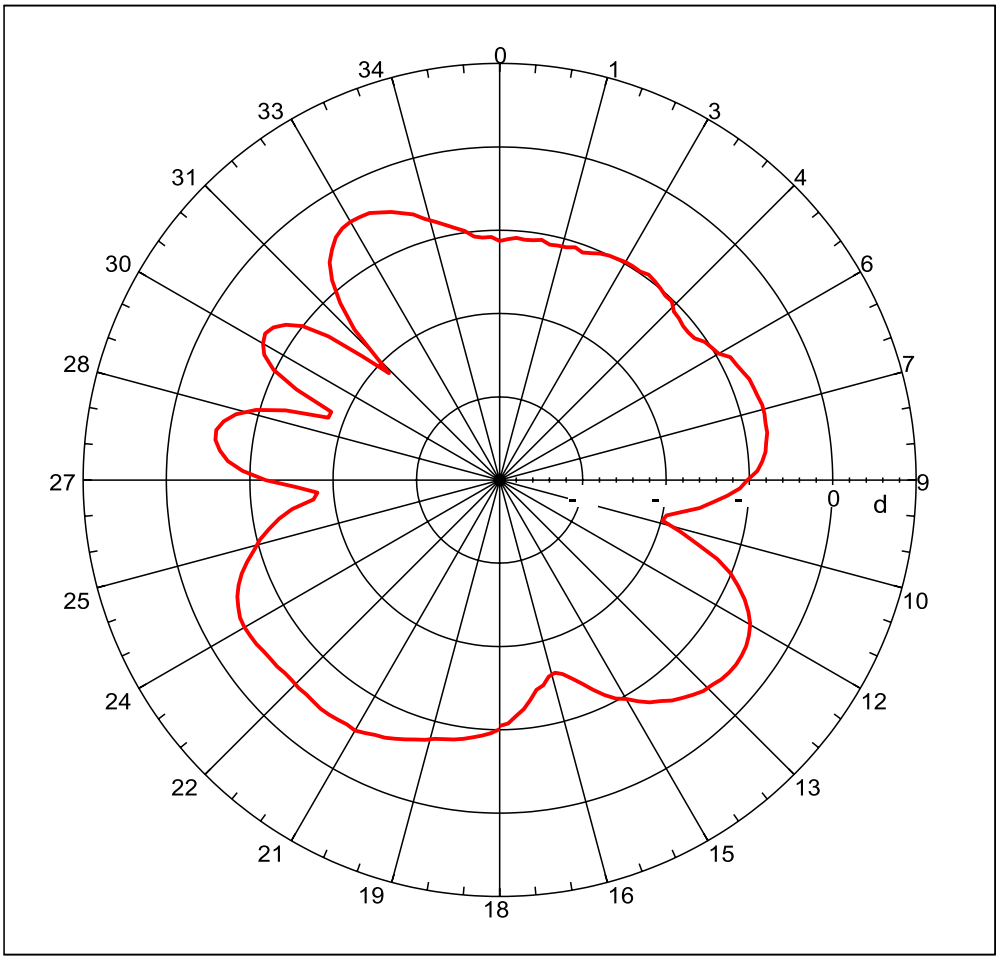
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-E.nsi
Measurement date/time: 3/22/2017 2:10:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -8.015 dB
   -3. dB beam width: 45.51 deg
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: Not Found
   Right Sidelobe: -1.26 dB at -83.464  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
7       1.9225  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 1927.5MHz: -3.98714dBi

Far-field amplitude of 20170322-B-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -3.98714  dBi
Max far-field (global) = -51.57954  dB, Max far-field (plot) =
-51.57961  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 128.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-E

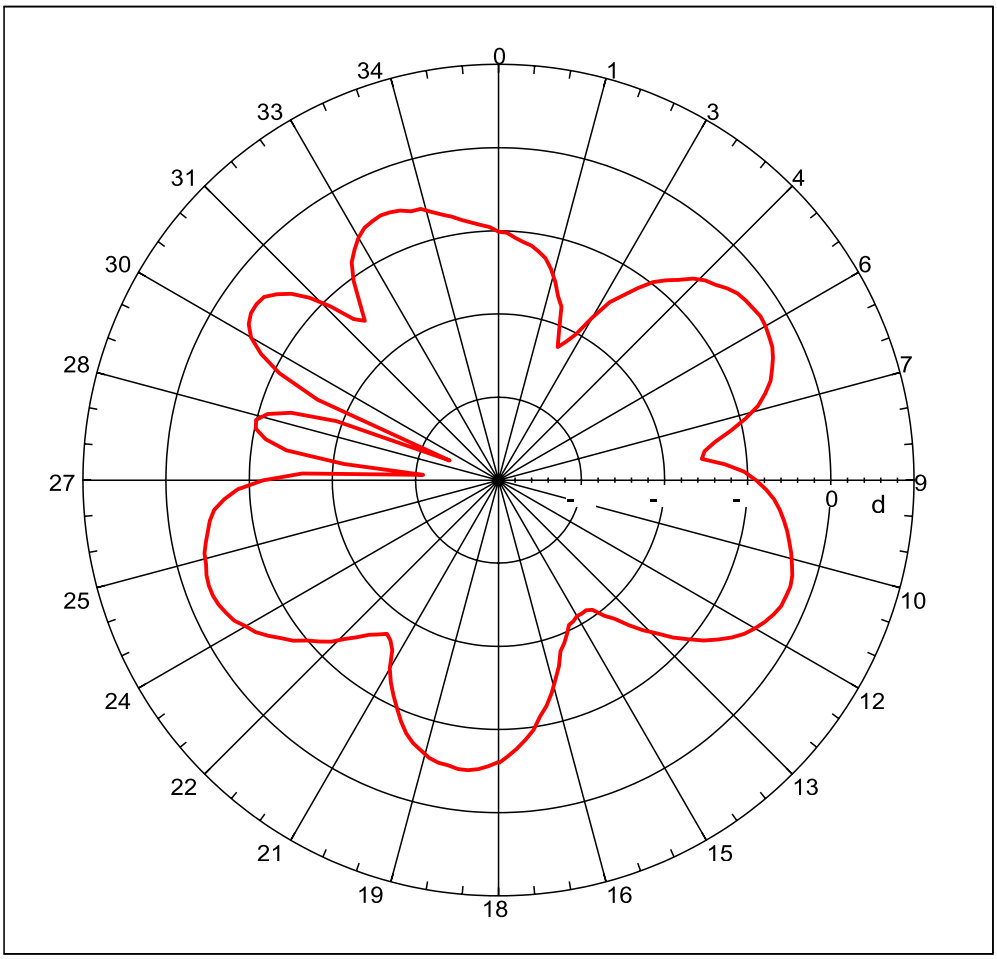
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-E.nsi
Measurement date/time: 3/22/2017 2:10:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -8.554 dB
   -3. dB beam width: 27.13 deg
   -6. dB beam width: 39.09 deg
   -10. dB beam width: 50.25 deg
   Left Sidelobe: -3.22 dB at 75.419  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
8       1.9275  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 1977.5MHz: -2.63487dBi

Far-field amplitude of 20170322-B-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -2.63487  dBi
Max far-field (global) = -50.5215  dB, Max far-field (plot) =
-50.52161  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 109.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-E

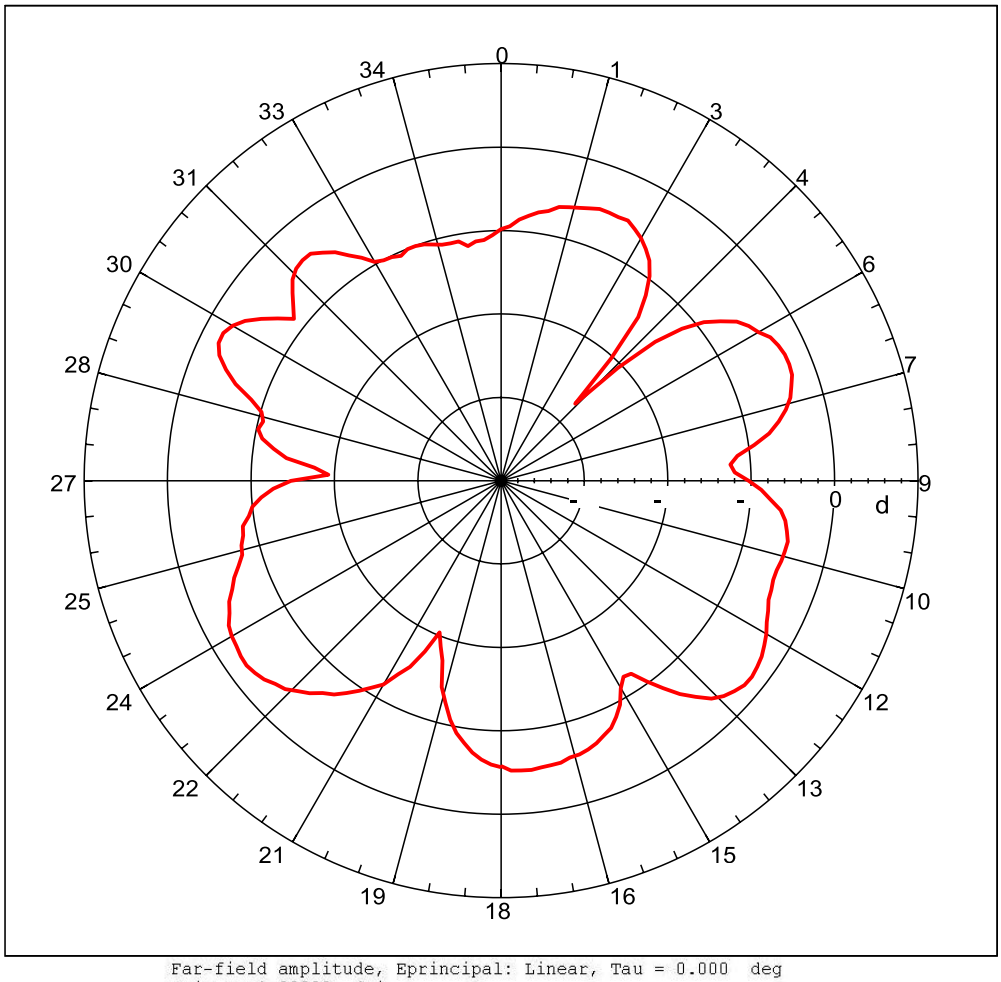
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-E.nsi
Measurement date/time: 3/22/2017 2:10:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -8.318 dB
   -3. dB beam width: 26.07 deg
   -6. dB beam width: 37.55 deg
   -10. dB beam width: 47.26 deg
   Left Sidelobe: -0.18 dB at 59.330  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
9       1.9775  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 2550MHz: -1.80998dBi

Far-field amplitude of 20170322-B-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -1.80998  dBi
Max far-field (global) = -52.20972  dB, Max far-field (plot) =
-52.20987  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 128.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-E

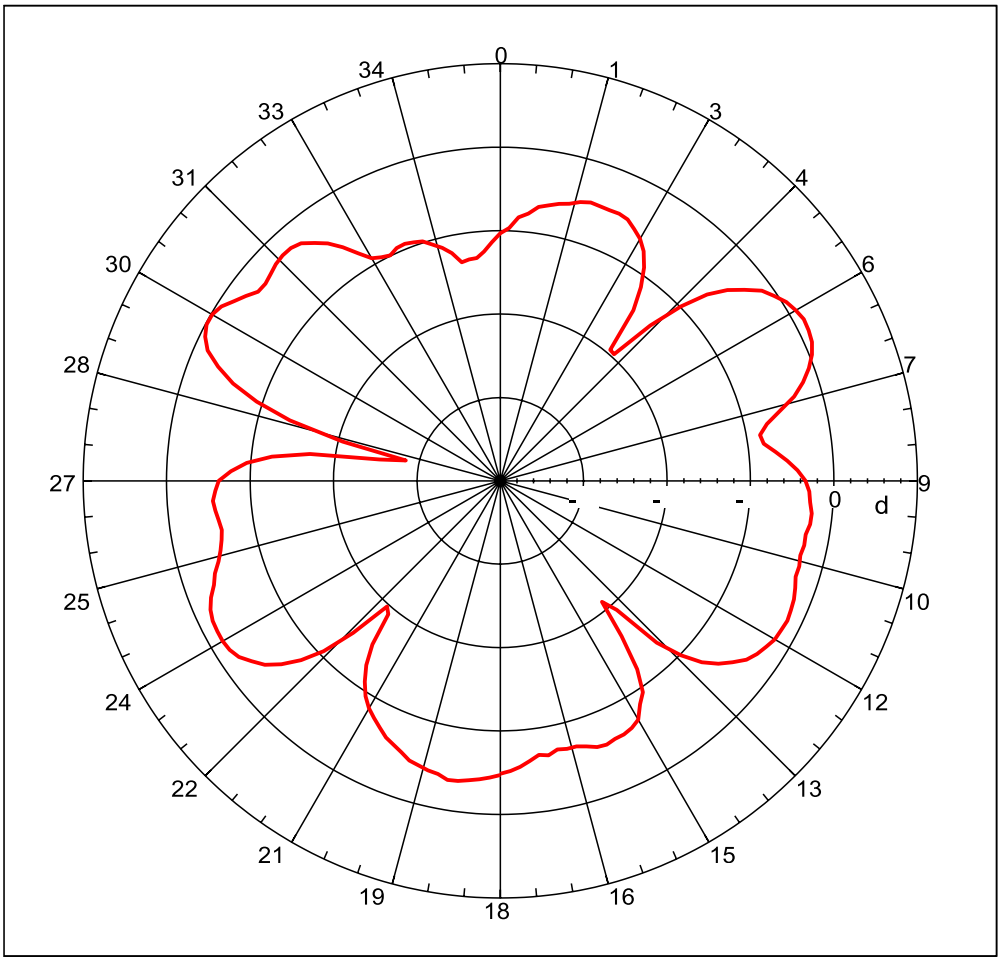
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-E.nsi
Measurement date/time: 3/22/2017 2:10:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -6.950 dB
   -3. dB beam width: 23.38 deg
   -6. dB beam width: 47.96 deg
   -10. dB beam width: 57.87 deg
   Left Sidelobe: -0.91 dB at 69.385  deg
   Right Sidelobe: -3.31 dB at 175.978  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 12
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
10      2.550  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 2595MHz: 1.21667dBi

Far-field amplitude of 20170322-B-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.21667  dBi
Max far-field (global) = -49.15694  dB, Max far-field (plot) =
-49.15705  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 61.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-E

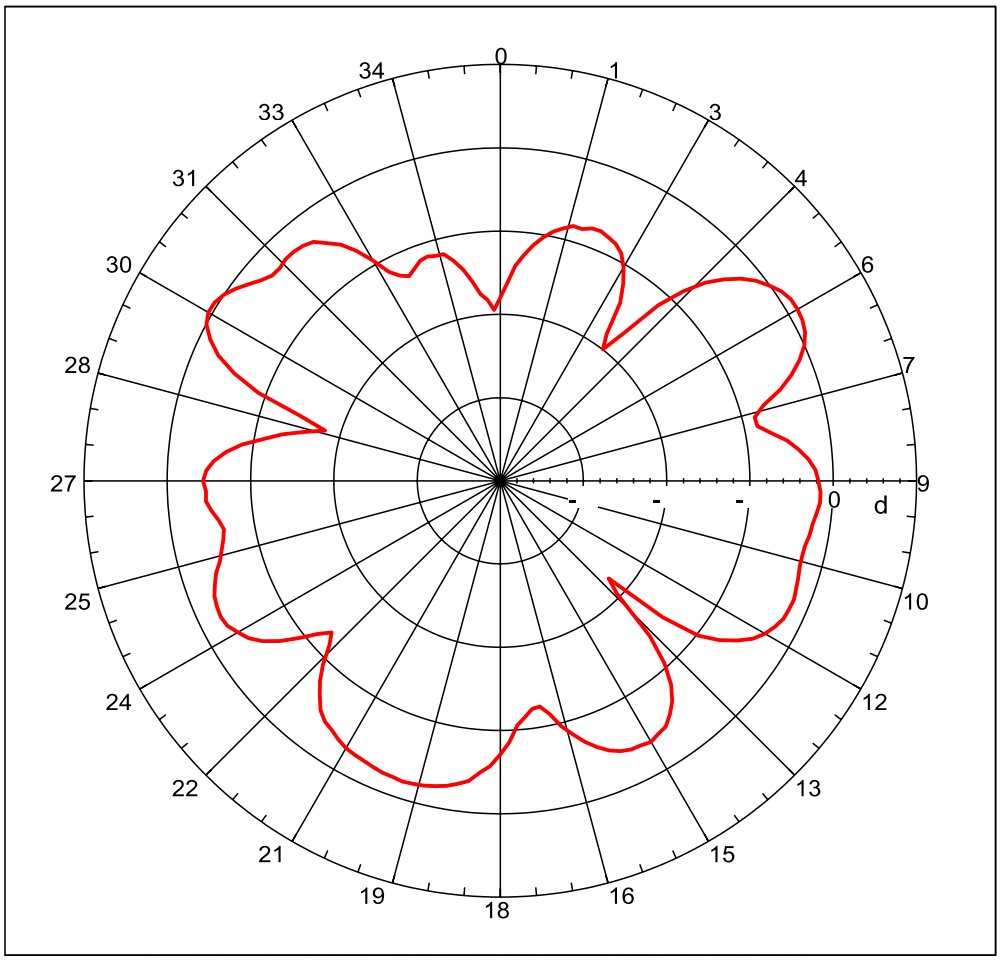
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-E.nsi
Measurement date/time: 3/22/2017 2:10:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.501 dB
   -3. dB beam width: 18.68 deg
   -6. dB beam width: 25.80 deg
   -10. dB beam width: 86.85 deg
   Left Sidelobe: -6.21 dB at 25.140  deg
   Right Sidelobe: -3.68 dB at 97.542  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 12
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
11      2.595  GHz  Azimuth  Elevation  Single-pol
```


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E Plane 2600MHz: 1.23138dBi

Far-field amplitude of 20170322-B-E.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = 1.23138  dBi
Max far-field (global) = -49.08541  dB, Max far-field (plot) =
-49.08545  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 59.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-E

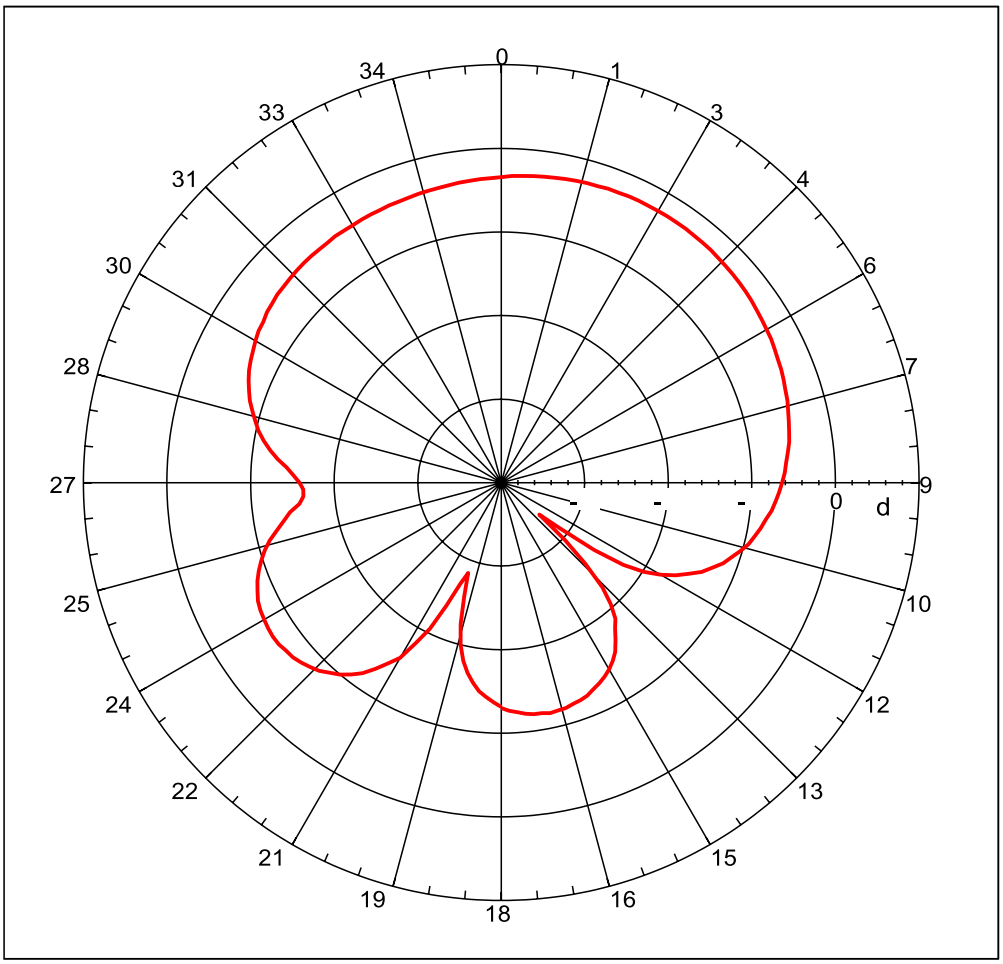
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-E.nsi
Measurement date/time: 3/22/2017 2:10:27 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -5.479 dB
   -3. dB beam width: 18.08 deg
   -6. dB beam width: 25.20 deg
   -10. dB beam width: 83.85 deg
   Left Sidelobe: -8.92 dB at 23.129  deg
   Right Sidelobe: -2.73 dB at 95.531  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 12
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
12      2.600  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 817.5MHz: -2.45047dBi

Far-field amplitude of 20170322-B-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -2.45047  dBi
Max far-field (global) = -44.88464  dB, Max far-field (plot) =
-44.88465  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 35.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-H

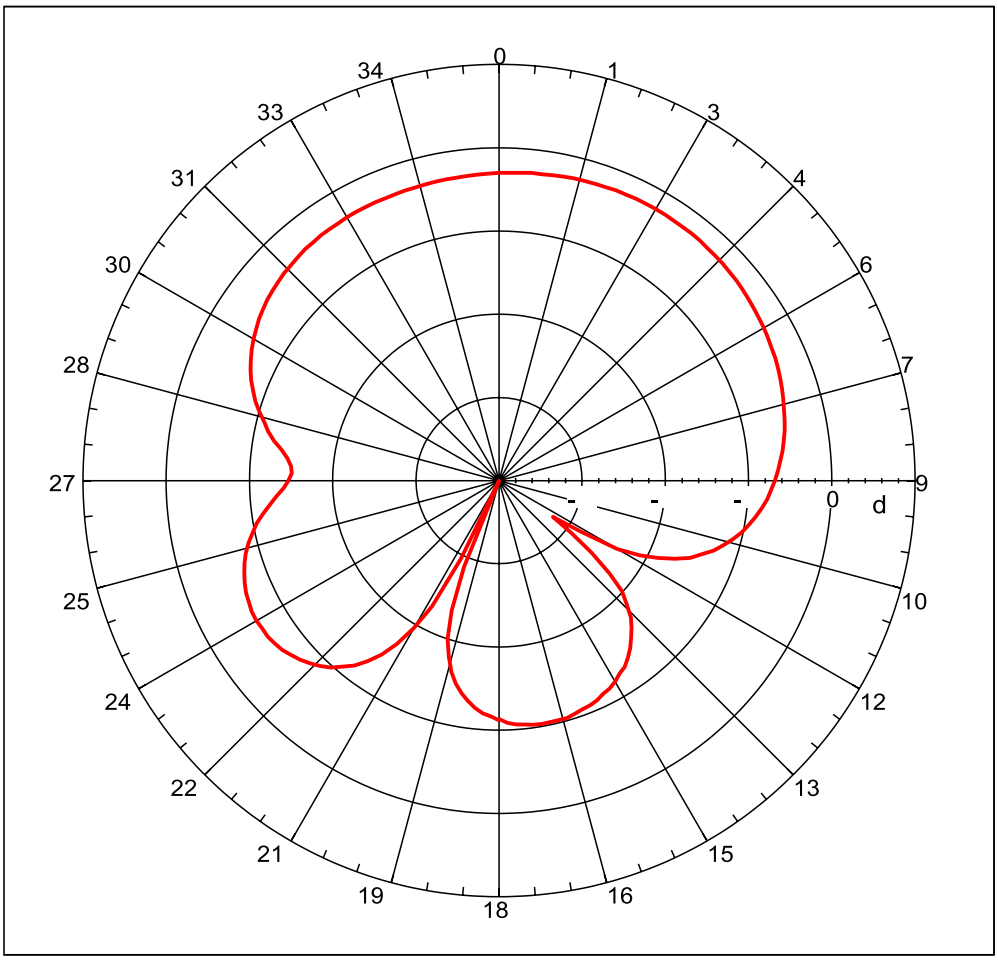
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-H.nsi
Measurement date/time: 3/22/2017 3:22:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -7.652 dB
   -3. dB beam width: 138.99 deg
   -6. dB beam width: 173.01 deg
   -10. dB beam width: 195.12 deg
   Left Sidelobe: -4.59 dB at -123.687  deg
   Right Sidelobe: -9.36 dB at 169.944  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
1       0.8175  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 822.5MHz: -2.33903dBi

Far-field amplitude of 20170322-B-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -2.33903  dBi
Max far-field (global) = -44.5262  dB, Max far-field (plot) =
-44.52621  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 31.99999  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-H

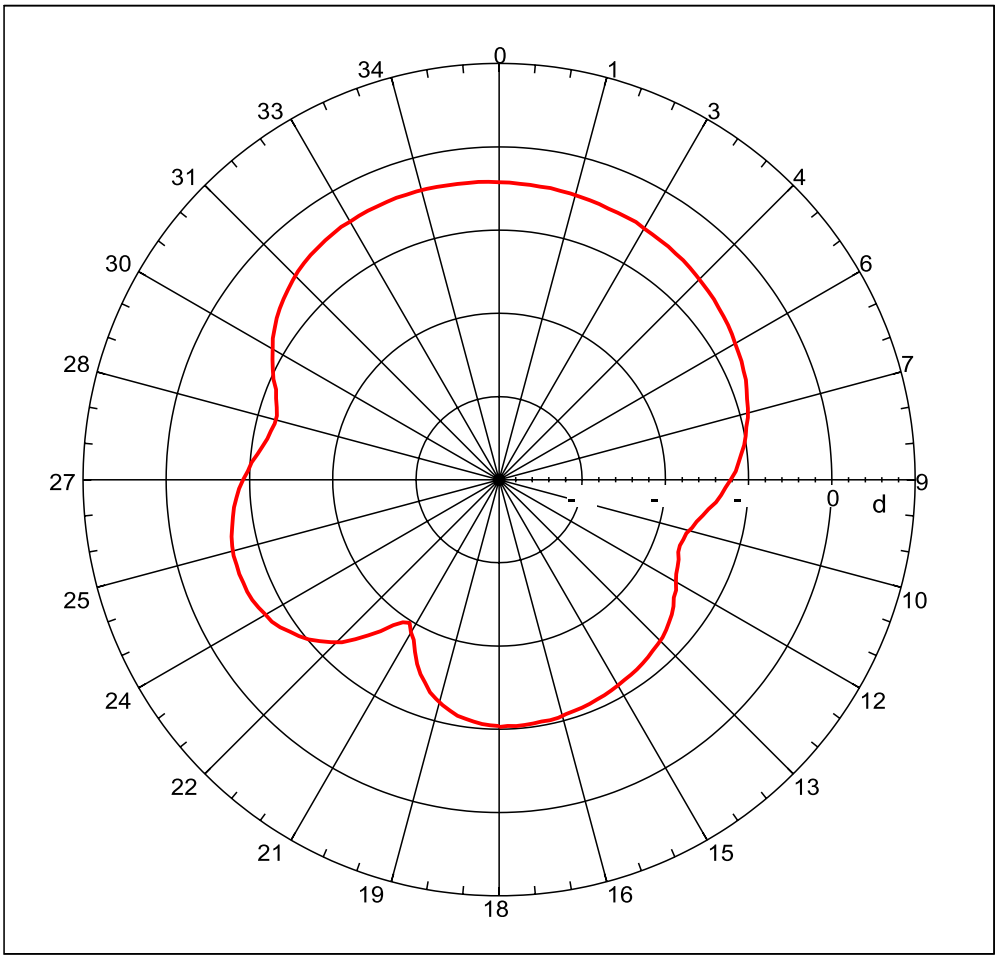
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-H.nsi
Measurement date/time: 3/22/2017 3:22:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -7.283 dB
   -3. dB beam width: 138.70 deg
   -6. dB beam width: 166.57 deg
   -10. dB beam width: 187.49 deg
   Left Sidelobe: -4.01 dB at -119.665  deg
   Right Sidelobe: -7.97 dB at 171.955  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
2       0.8225  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 827.5MHz: -3.97995dBi

Far-field amplitude of 20170322-B-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -3.97995  dBi
Max far-field (global) = -46.08512  dB, Max far-field (plot) =
-46.08512  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -20.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-H

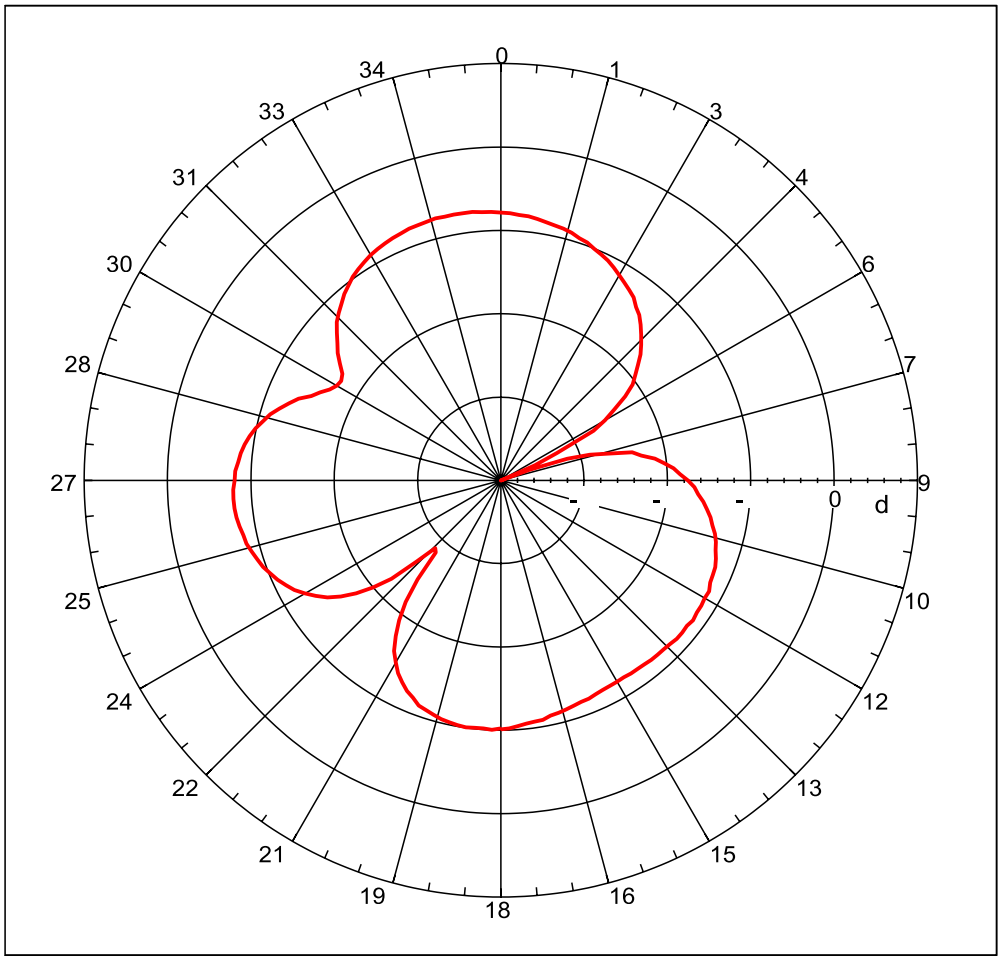
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-H.nsi
Measurement date/time: 3/22/2017 3:22:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -8.591 dB
   -3. dB beam width: 112.20 deg
   -6. dB beam width: 146.01 deg
   -10. dB beam width: 235.45 deg
   Left Sidelobe: -2.86 dB at -105.587  deg
   Right Sidelobe: -6.48 dB at 169.944  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
3       0.8275  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 832.5MHz: -7.61258dBi

Far-field amplitude of 20170322-B-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -7.61258  dBi
Max far-field (global) = -49.60075  dB, Max far-field (plot) =
-49.60076  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -14.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-H

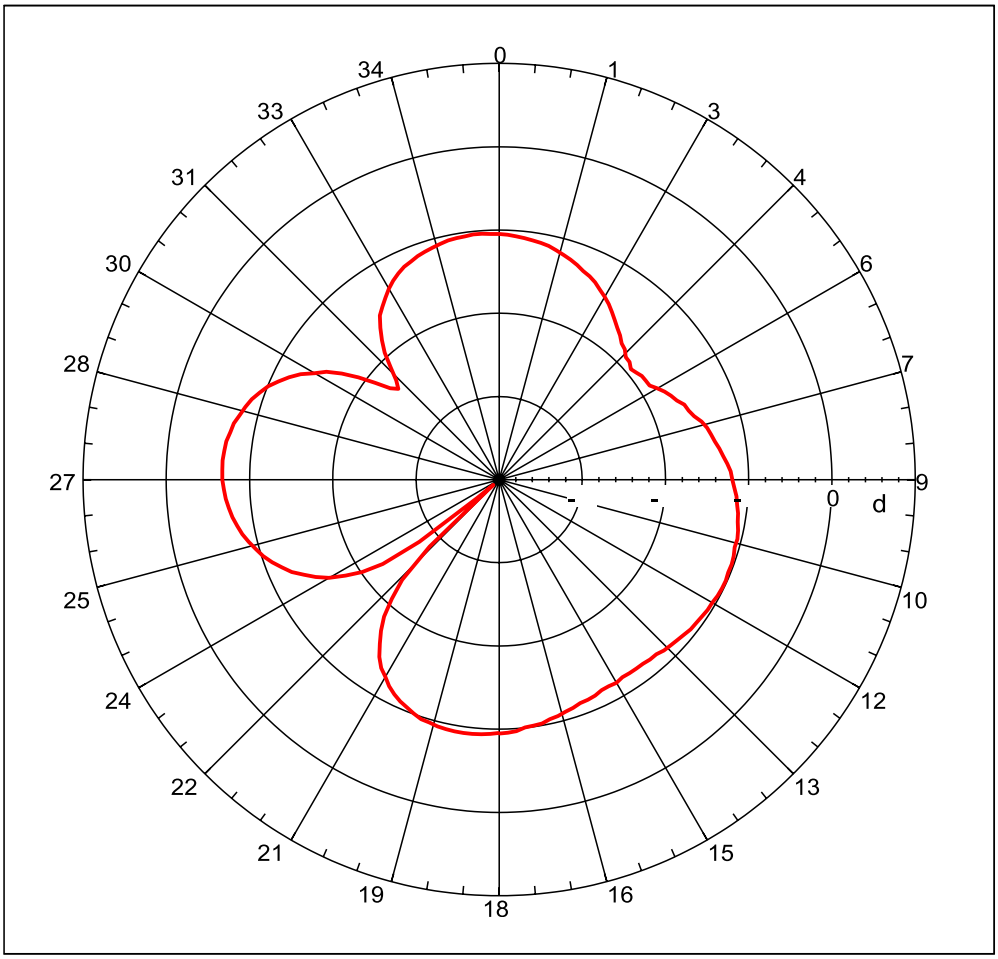
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-H.nsi
Measurement date/time: 3/22/2017 3:22:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -12.155 dB
   -3. dB beam width: 65.24 deg
   -6. dB beam width: 86.56 deg
   -10. dB beam width: 176.87 deg
   Left Sidelobe: -0.24 dB at -93.520  deg
   Right Sidelobe: -4.07 dB at 119.665  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
4       0.8325  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 837.5MHz: -6.72681dBi

Far-field amplitude of 20170322-B-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -6.72681  dBi
Max far-field (global) = -48.55709  dB, Max far-field (plot) =
-48.55713  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -86.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-H

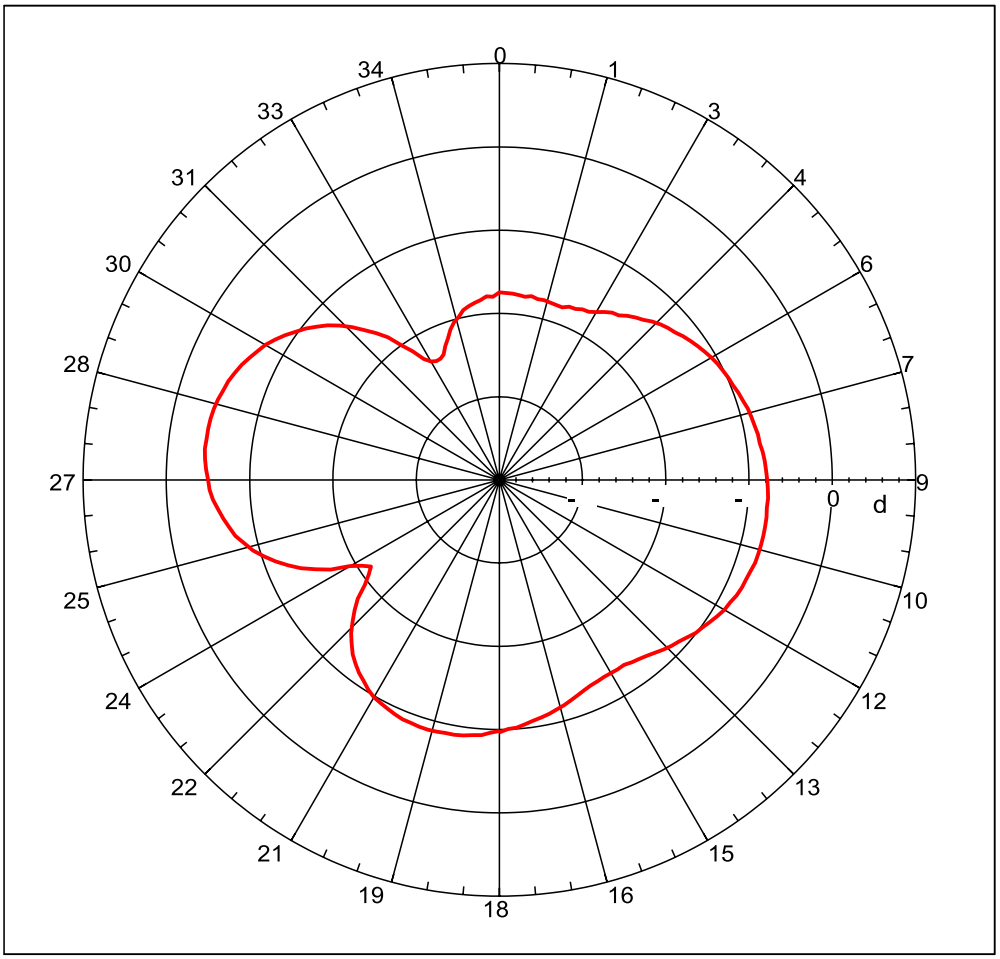
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-H.nsi
Measurement date/time: 3/22/2017 3:22:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -12.183 dB
   -3. dB beam width: 37.45 deg
   -6. dB beam width: 51.69 deg
   -10. dB beam width: 64.12 deg
   Left Sidelobe: -2.54 dB at -171.955  deg
   Right Sidelobe: -3.65 dB at -5.028  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
5       0.8375  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 842.5MHz: -4.45324dBi

Far-field amplitude of 20170322-B-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -4.45324  dBi
Max far-field (global) = -46.21163  dB, Max far-field (plot) =
-46.21166  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -84.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-H

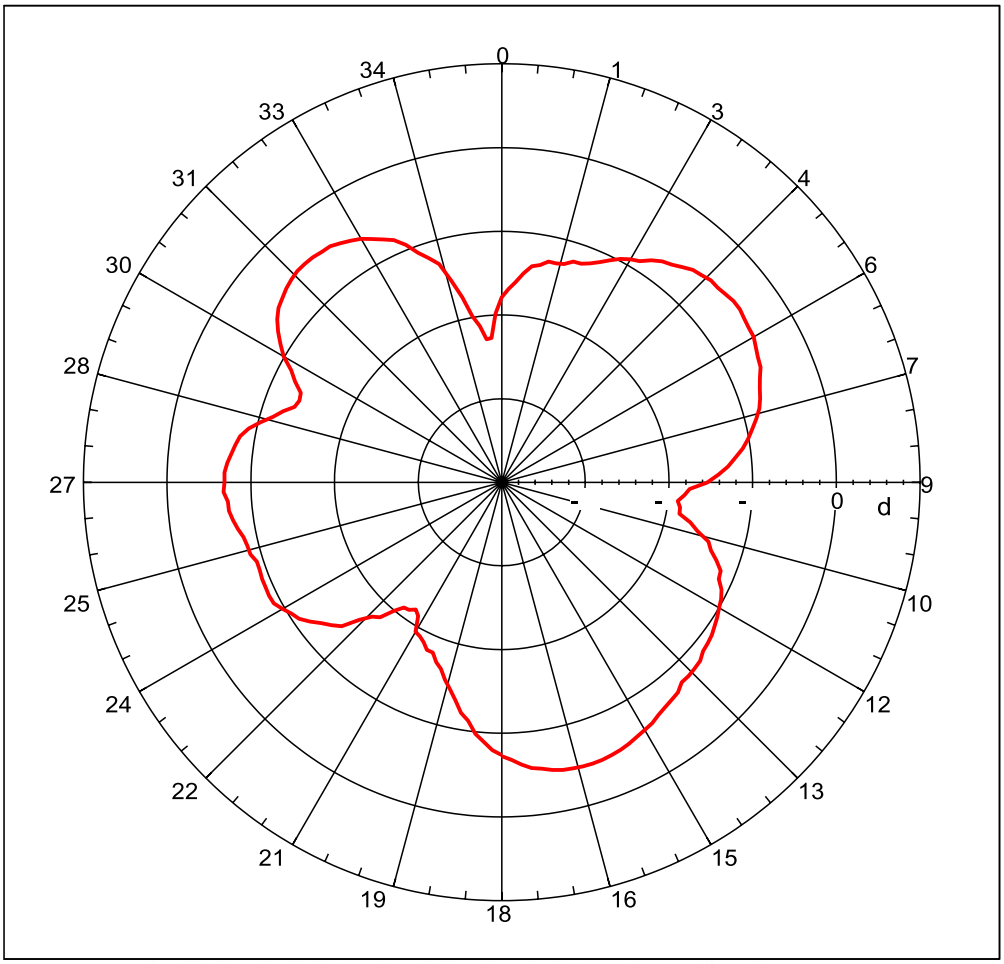
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-H.nsi
Measurement date/time: 3/22/2017 3:22:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -10.987 dB
   -3. dB beam width: 41.17 deg
   -6. dB beam width: 56.48 deg
   -10. dB beam width: 70.98 deg
   Left Sidelobe: -4.33 dB at -163.911  deg
   Right Sidelobe: -13.46 dB at -3.017  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
6       0.8425  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 1922.5MHz: -4.67678dBi

Far-field amplitude of 20170322-B-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -4.67678  dBi
Max far-field (global) = -52.18028  dB, Max far-field (plot) =
-52.18032  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: 162.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-H

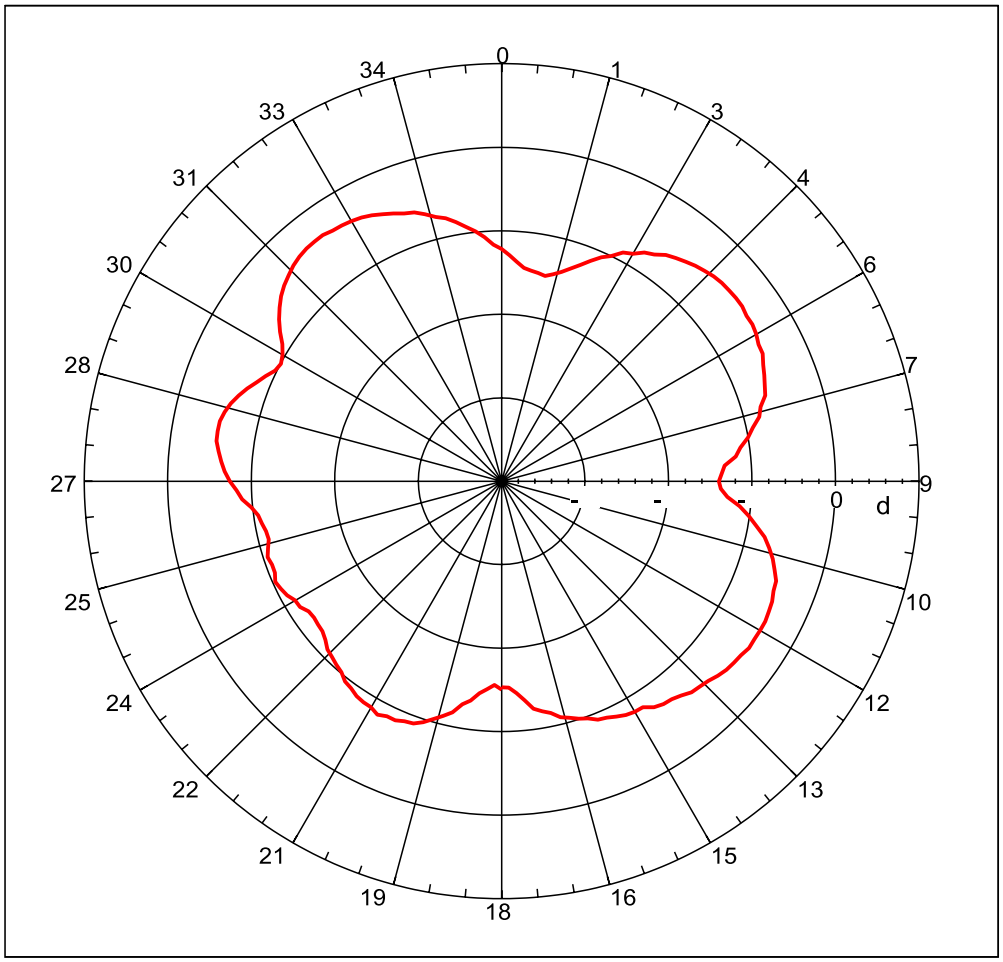
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-H.nsi
Measurement date/time: 3/22/2017 3:22:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -9.416 dB
   -3. dB beam width: Not Found
   -6. dB beam width: Not Found
   -10. dB beam width: Not Found
   Left Sidelobe: -0.13 dB at 55.307  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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
7       1.9225  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 1927.5MHz: -3.57955dBi

Far-field amplitude of 20170322-B-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -3.57955  dBi
Max far-field (global) = -51.17195  dB, Max far-field (plot) =
-51.17199  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -36.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-H

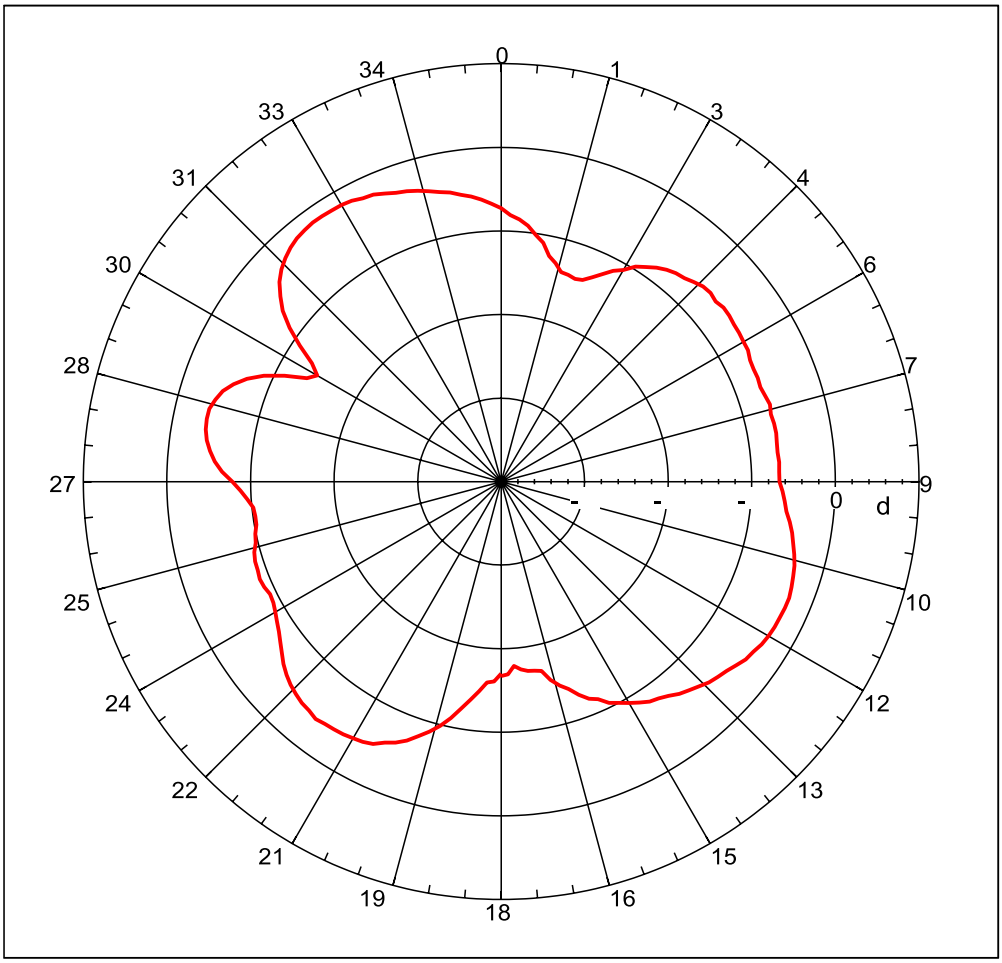
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-H.nsi
Measurement date/time: 3/22/2017 3:22:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -8.077 dB
   -3. dB beam width: 36.44 deg
   -6. dB beam width: 52.92 deg
   -10. dB beam width: 176.94 deg
   Left Sidelobe: -1.90 dB at -79.441  deg
   Right Sidelobe: -0.79 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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
8       1.9275  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 1977.5MHz: -1.68092dBi

Far-field amplitude of 20170322-B-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -1.68092  dBi
Max far-field (global) = -49.56755  dB, Max far-field (plot) =
-49.56756  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -36.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-H

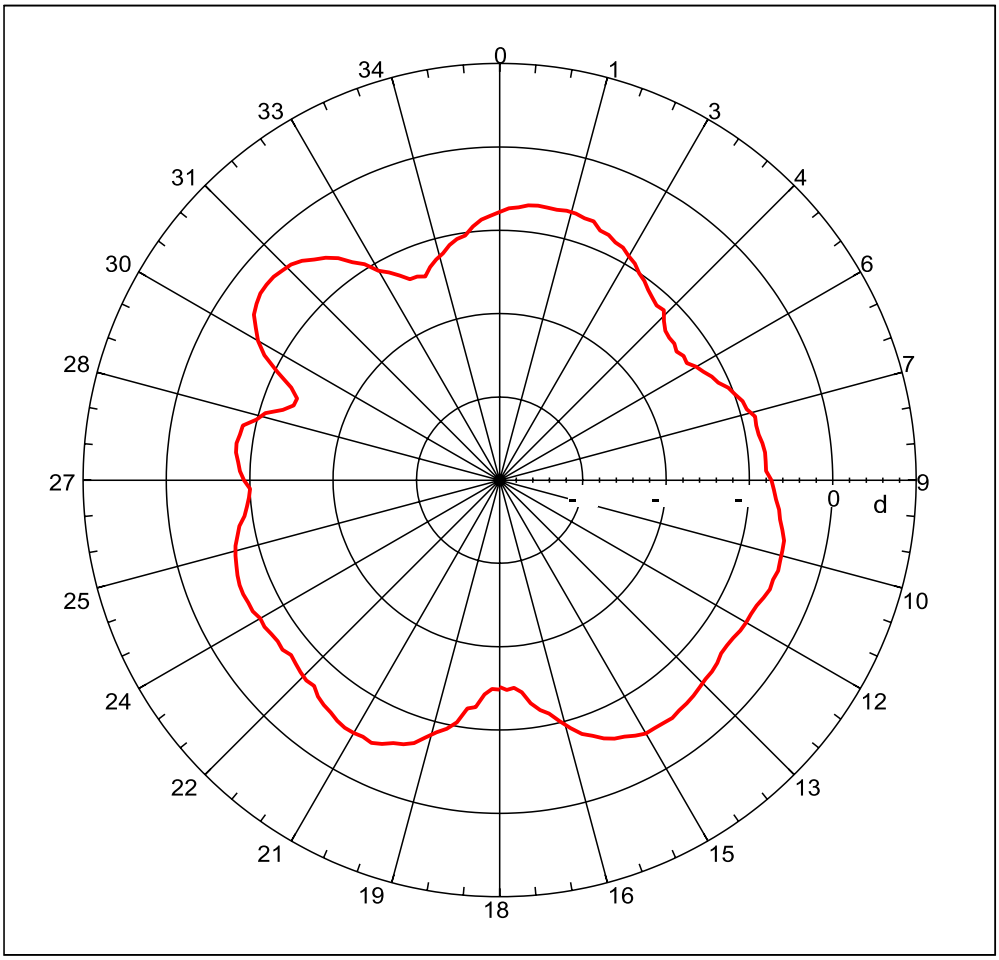
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-H.nsi
Measurement date/time: 3/22/2017 3:22:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -6.833 dB
   -3. dB beam width: 37.43 deg
   -6. dB beam width: 54.12 deg
   -10. dB beam width: 67.97 deg
   Left Sidelobe: -2.32 dB at -77.430  deg
   Right Sidelobe: -4.59 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 12
Beam    Frequency    Azimuth  Elevation  Pol
----    ---------    -------  ---------  ---
9       1.9775  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 2550MHz: -3.51834dBi

Far-field amplitude of 20170322-B-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -3.51834  dBi
Max far-field (global) = -53.91808  dB, Max far-field (plot) =
-53.91816  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -48.000  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-H

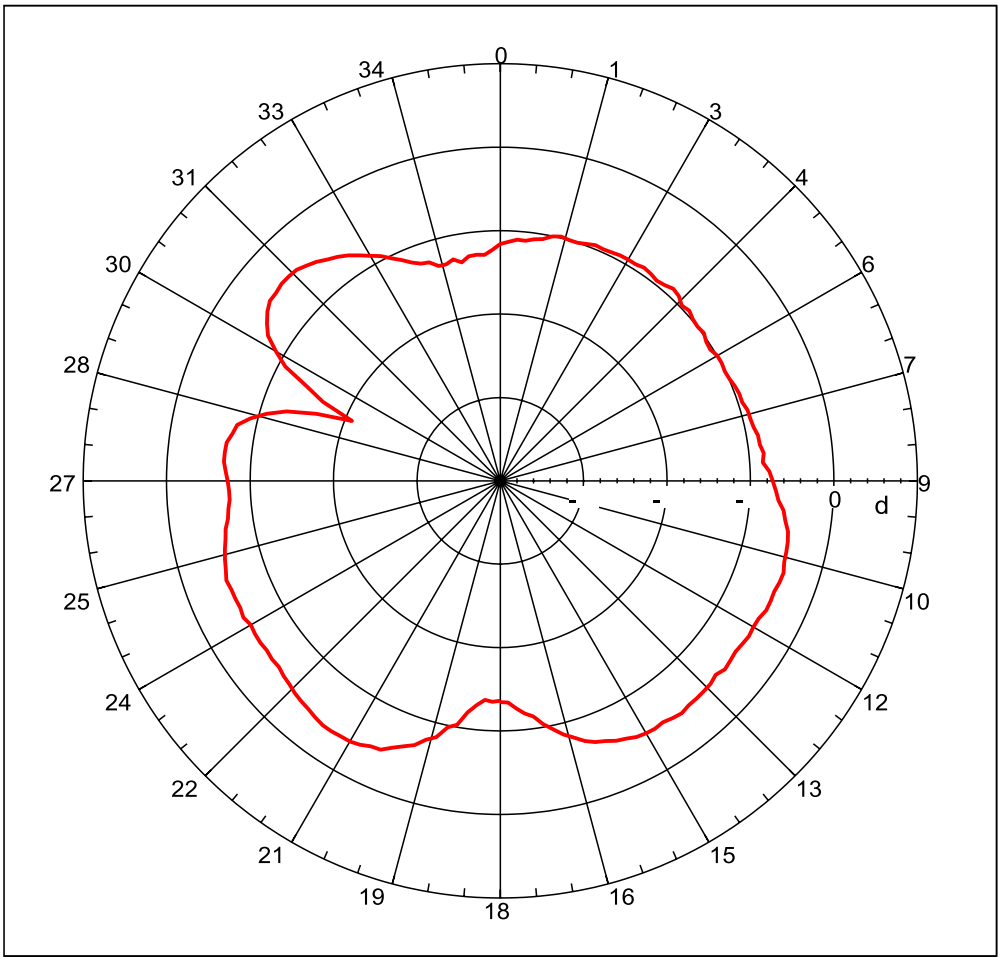
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-H.nsi
Measurement date/time: 3/22/2017 3:22:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -7.862 dB
   -3. dB beam width: 22.92 deg
   -6. dB beam width: 31.53 deg
   -10. dB beam width: 43.58 deg
   Left Sidelobe: -4.62 dB at -81.453  deg
   Right Sidelobe: -3.22 dB at 9.050  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 12
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
10      2.550  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 2595MHz: -3.78513dBi

Far-field amplitude of 20170322-B-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -3.78513  dBi
Max far-field (global) = -54.15874  dB, Max far-field (plot) =
-54.15876  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -146.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-H

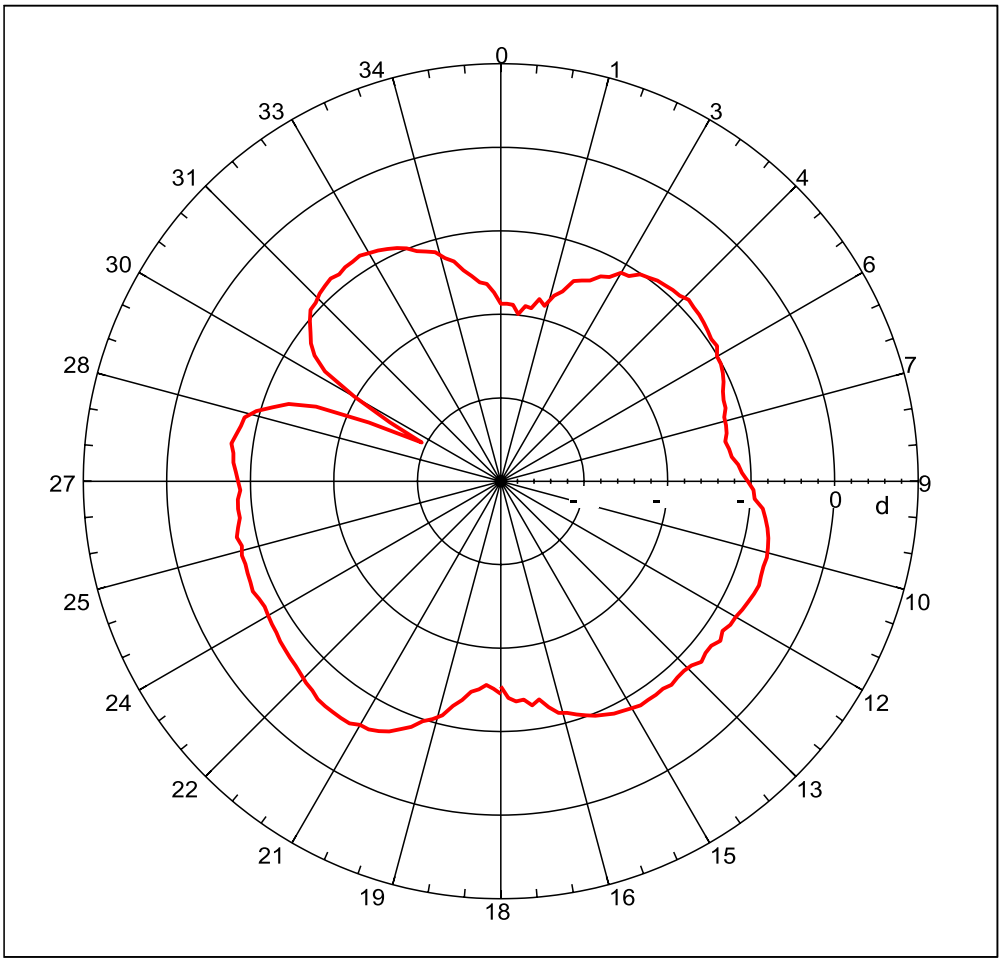
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-H.nsi
Measurement date/time: 3/22/2017 3:22:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -7.526 dB
   -3. dB beam width: 63.41 deg
   -6. dB beam width: 93.23 deg
   -10. dB beam width: Not Found
   Left Sidelobe: Not Found
   Right Sidelobe: -0.96 dB at -47.263  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 12
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
11      2.595  GHz  Azimuth  Elevation  Single-pol
```


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H Plane 2600MHz: -5.78462dBi

Far-field amplitude of 20170322-B-H.nsi




```
Far-field amplitude, Eprincipal: Linear, Tau = 0.000  deg
Gain = -5.78462  dBi
Max far-field (global) = -56.10141  dB, Max far-field (plot) =
-56.10144  dB
Normalization: Reference, Network offset = 0.000  dB
Hpeak at: -146.00001  deg, Vpeak at: 0.000  deg
Plot centering: On

20170322-B-H

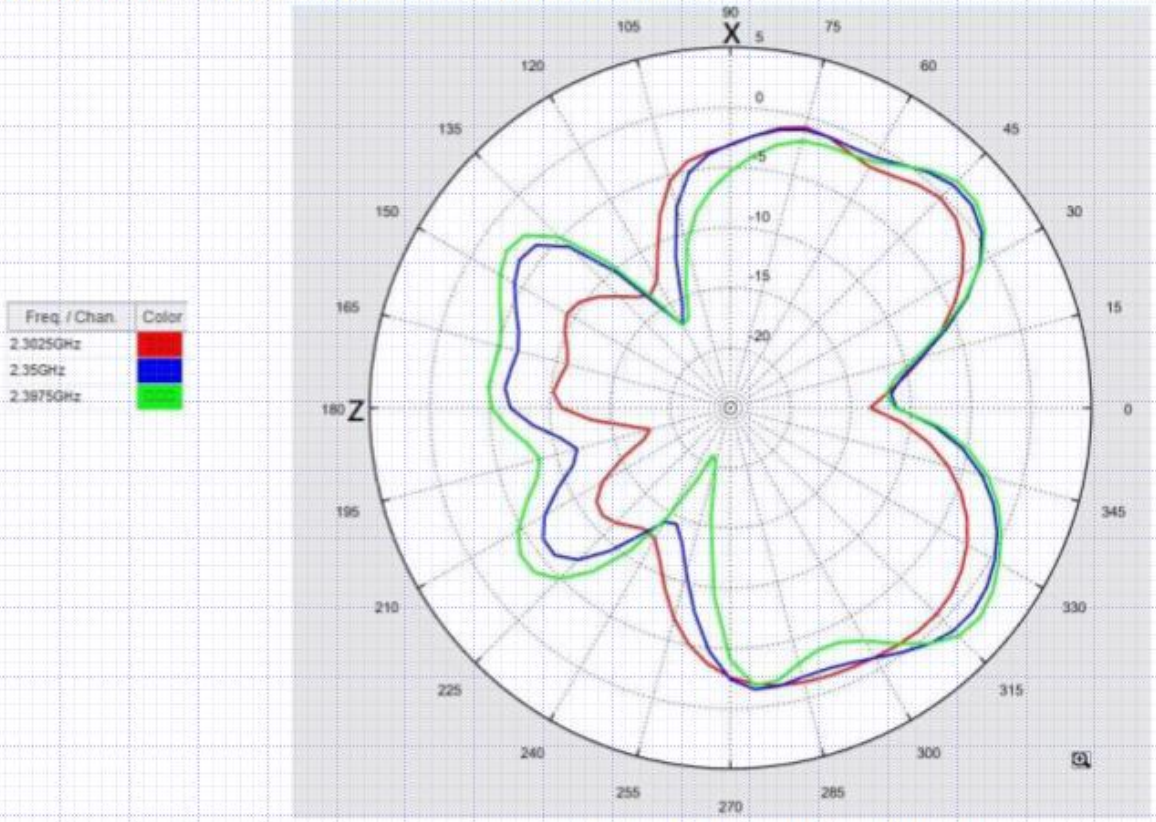
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20
170322-B\20170322-B-H.nsi
Measurement date/time: 3/22/2017 3:22:48 PM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: -9.853 dB
   -3. dB beam width: 68.38 deg
   -6. dB beam width: 96.08 deg
   -10. dB beam width: Not Found
   Left Sidelobe: Not Found
   Right Sidelobe: -1.64 dB at -81.453  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 12
Beam    Frequency   Azimuth  Elevation  Pol
----    ---------   -------  ---------  ---
12      2.600  GHz  Azimuth  Elevation  Single-pol
```


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（追加試験:2023 年 2 月）

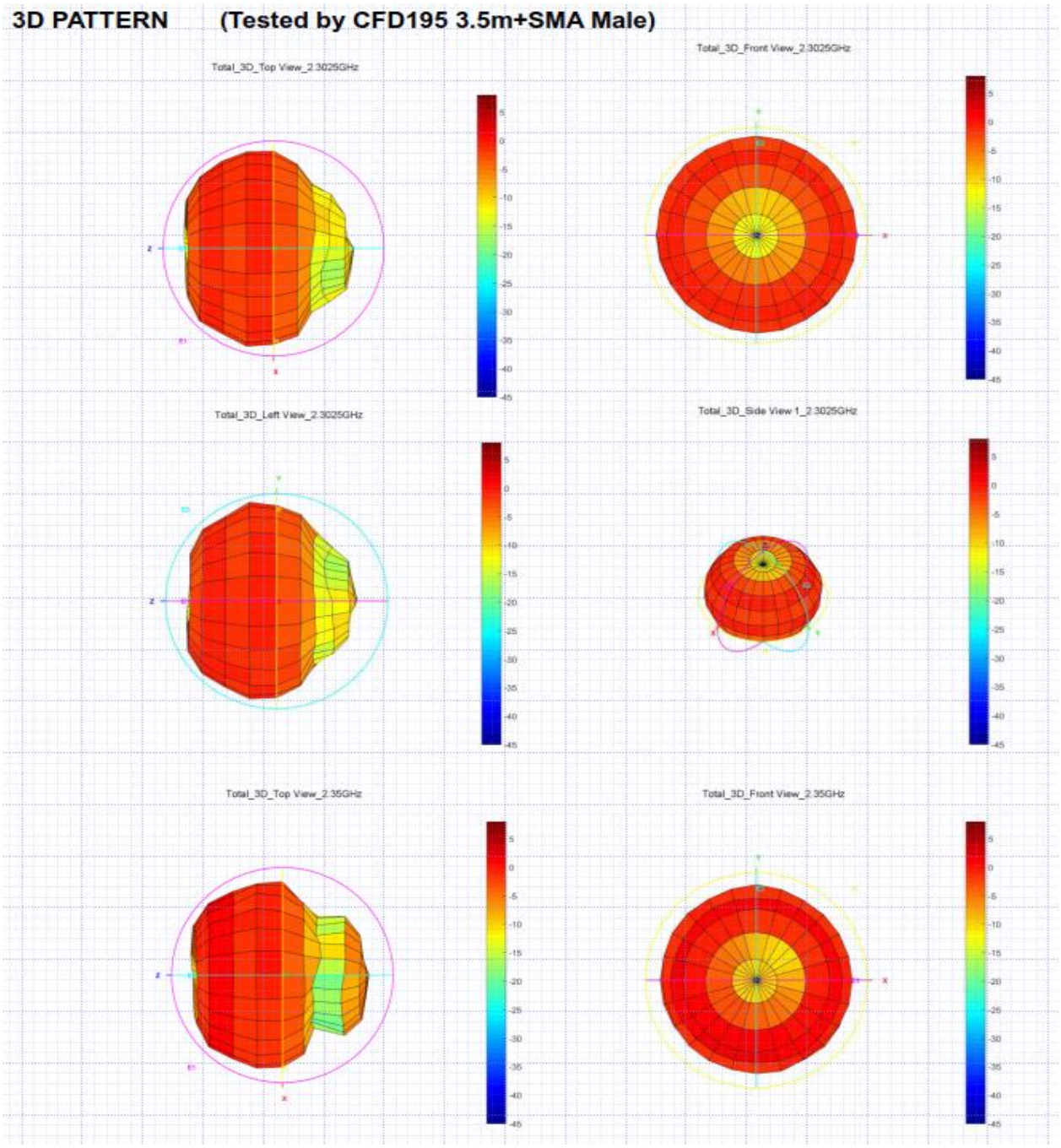
2D PATTERN (Tested by CFD195 3.5m+SMA Male)



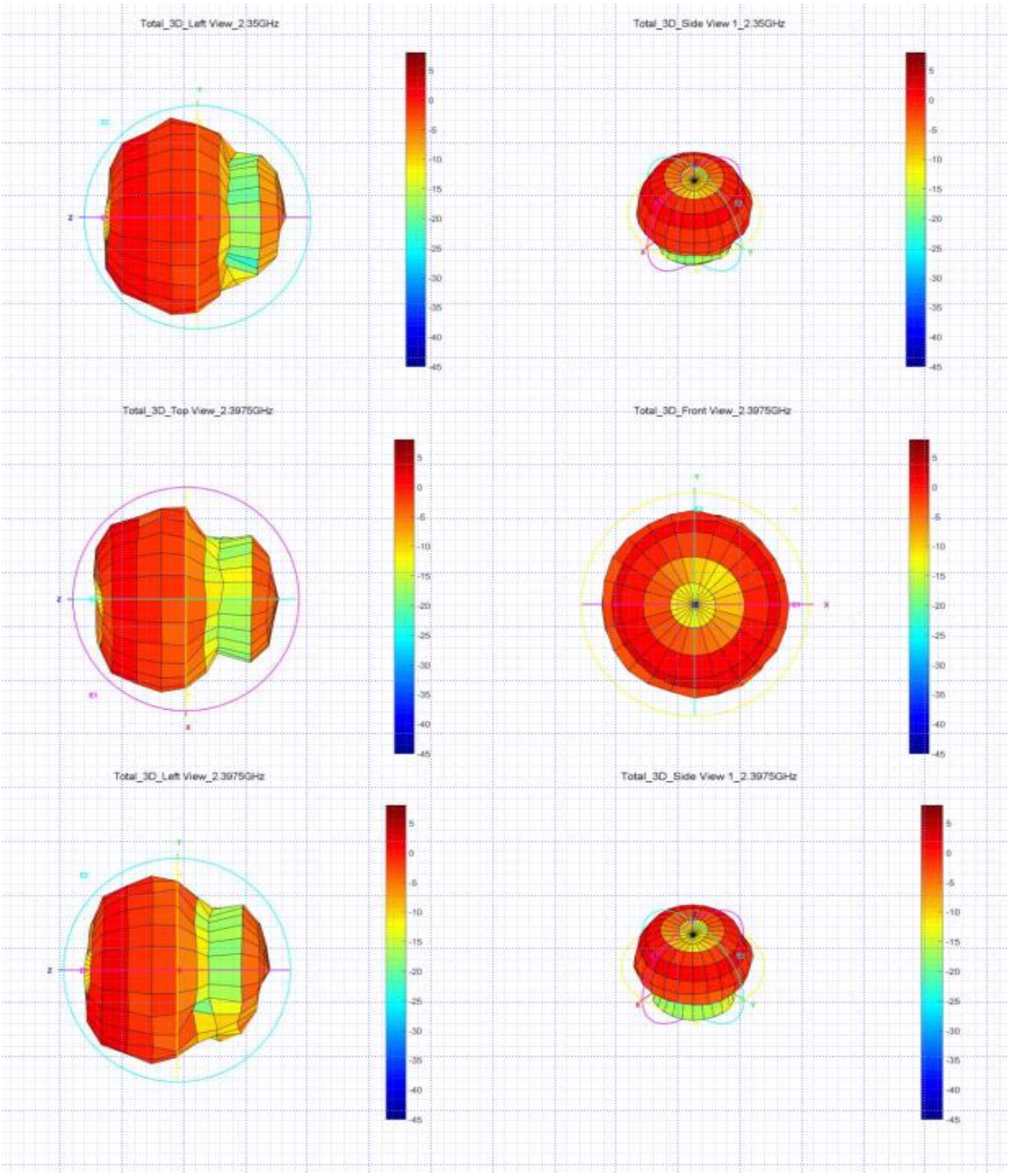
Frequency	**2.3025GHz**	**2.35GHz**	**2.3975GHz**
Horizontal+Vertical			
Efficiency (%)	41.88	50.23	47.64
Gain (dBi)	-0.3	1.73	2.54
Horizontal			
H Efficiency (%)	40.09	47.64	45.08
H Gain (dBi)	-0.33	1.7	2.54
Vertical			
V Efficiency (%)	1.78	2.65	2.59
V Gain (dBi)	-11.74	-8.92	-7.85

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3D PATTERN (Tested by CFD195 3.5m+SMA Male)



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■ 3.5m 延長ケーブル iEC3.5M 仕様

納入仕様書

Model：iEC3.5M

3.5m Extension Cable

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2. Specification / Page 4

3. Characteristics and Reliability Test / Page 5

4. S Parameter Test Data / Page 6

5. Mechanical and Packing Drawing / Page 7 ~ 8

6. Material Description and RoHS Test Report / Page 9 ~ end

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1. Revision History

Revision	Date	Change Notification	Description
1.0	2025.09.29	First Edition	

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2. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	DC~ 6 GHz
Impedance	50 Ohm
V.S.W.R.	<= 1.8
Insertion Loss	4.5 dB
Voltage (breakdown)	> 500V
Insulation Resistance	>= 500 M ohm
B. Mechanical Characteristics	
Pull Test of Connector	>= 3 Kg
Mating Cycles	> 500
C. Environmental	
Operation Temperature	- 40 ˚C ~ + 75 ˚C
Storage Temperature	- 40 ˚C ~ + 80 ˚C

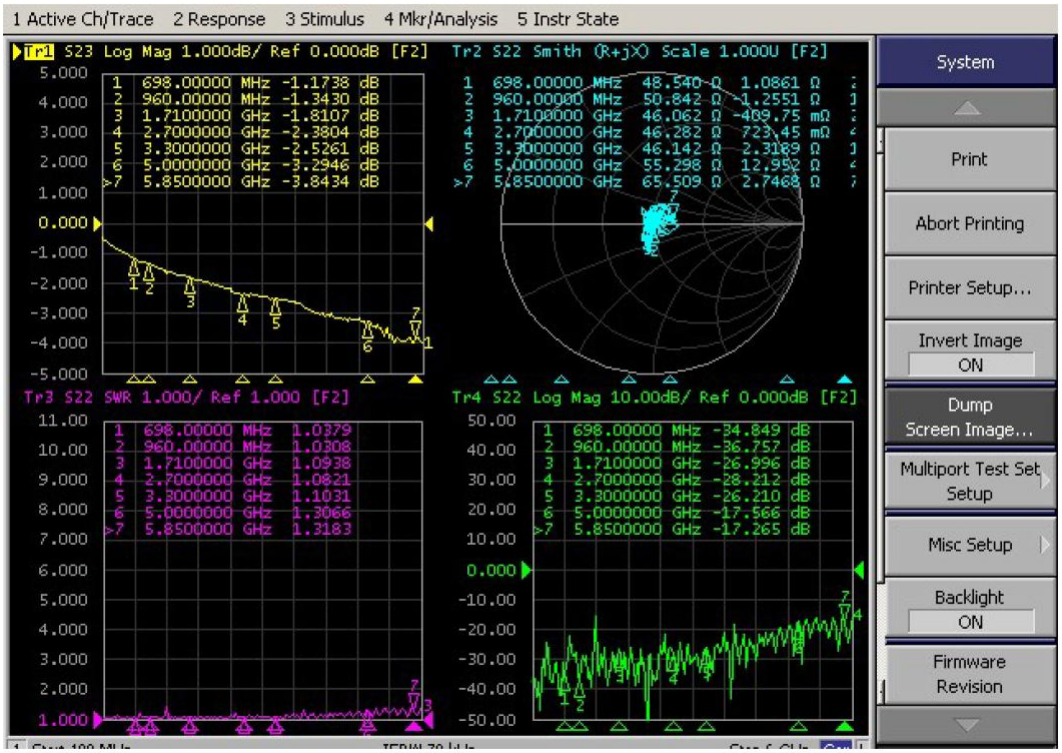
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3. Characteristics and Reliability Test

Test Items 測試項目		Test Condition and Procedure 測試方法	Requirements 要求	Result 結果
C1	V.S.W.R. 電壓駐波比	Set DUT on Network Analyzer; make individual calibration to test 設置網路分析儀參數進行測試	Directive DUT specification 符合待測物規範	PASS
C2	Insertion Loss 插入損失	Set DUT on Network Analyzer; make individual calibration to test 設置網路分析儀參數進行測試	Directive DUT specification 符合待測物規範	PASS
M4	Pull Test 拉力	Holding with individual specification; force applied to axis of terminal .單獨定義產品端子拉力	1. Directive DUT specification 2. Frequency Tol.≤5% 符合待測物規範;頻率偏移≤5%	PASS
M6	Dimension 尺寸	Inspection of dimension, color, material, package, surface process.檢查尺寸,顏色,材料,包裝,表面處理	Directive DUT specification 符合待測物規範	PASS
E2	Salt Spray 鹽霧	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%;Time: 24H 溫度 35°C;濕度≥95%;鹽水濃度≥5%;測試 24H	1. No Visual Damage 2. Frequency Tol.≤5% 無明顯外觀不良;頻率偏移≤5%	PASS
E3	Temperature and Humidity Chamber 恒溫恒濕	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H 溫度 80°C 測試 12H 轉-40°C 測試 12H;濕度≥ 90%;時間 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 恢復 2H 後, 無明顯外觀不良;頻率偏移≤5%	PASS
E5	Aging test 老化	GB /T 2423.2 - 2008 Temp: 80°C; Time: 24 hours 溫度 80° C, 測試 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 無明顯外觀不良;頻率偏移≤5%	PASS
R1	RoHS	With Reference to IEC 62321:2008 with flow chart 參考 IEC 62321 測試流程	Directive RoHS 2011/65/EU 符合 RoHS 2011/65/EU 標準	PASS
R2	PFOS	With Reference to USA EPA 3550C:1996 by LC/MS 參考 USA EPA 3550C 測試流程	Directive RoHS 2006/122/EC 符合 RoHS 2011/65/EU 標準	PASS

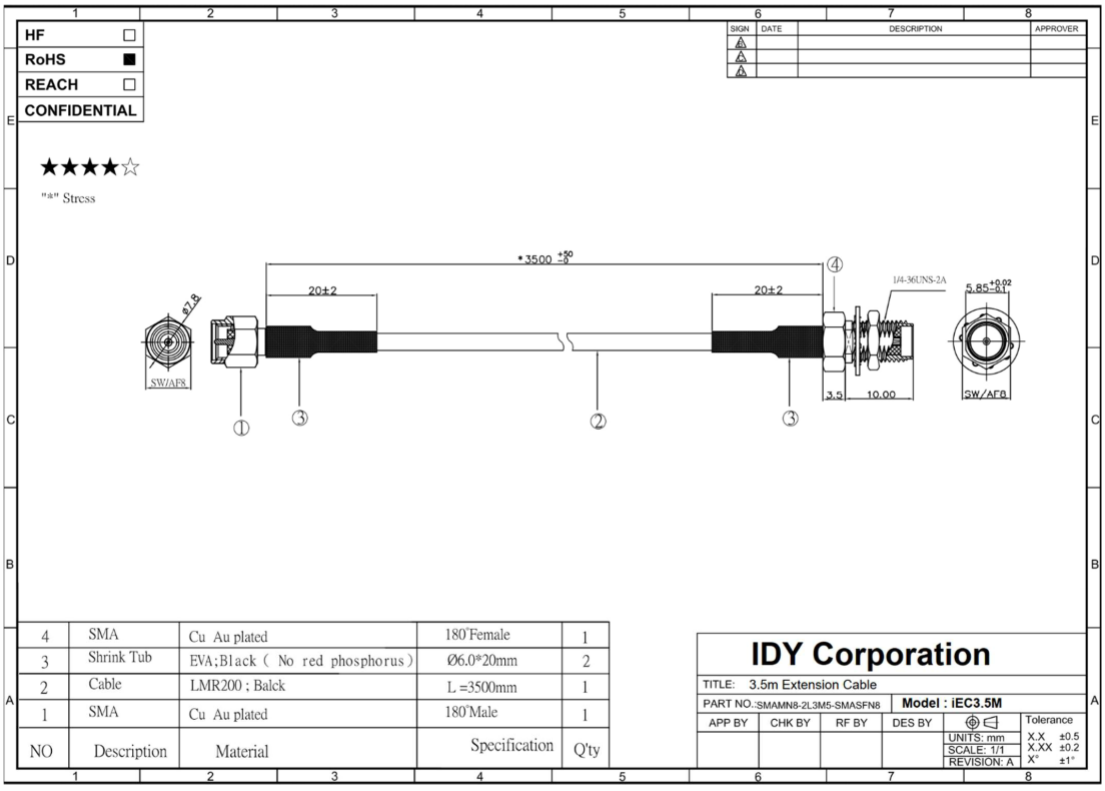
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4. S Parameter Test Data



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5. Mechanical and Packing Drawing



NO	Description	Material	Specification	Q'ty
4	SMA	Cu Au plated	180°Female	1
3	Shrink Tub	EVA;Black (No red phosphorus)	Ø6.0*20mm	2
2	Cable	LMR200 ; Balck	L =3500mm	1
1	SMA	Cu Au plated	180°Male	1

IDY Corporation

TITLE: 3.5m Extension Cable

PART NO.:SMAMN8-2L3M5-SMASFN8 | Model : iEC3.5M

APP BY	CHK BY	RF BY	DES BY	Tolerance
				UNITS: mm X.X ±0.5
				SCALE: 1/1 X.XX ±0.2
				REVISION: A X° ±1°

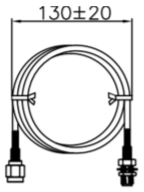
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PACKING CRITERION

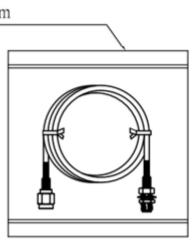
Date:2025.09.10

Part Number : iEC3.5M	Revision :A
Name: Cable	

一

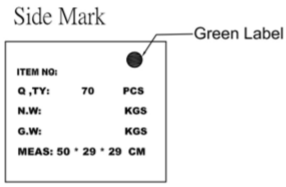


二

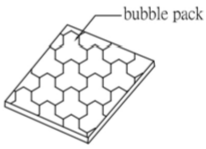


1PCS/per Bag

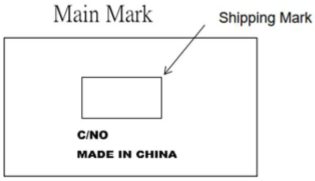
三

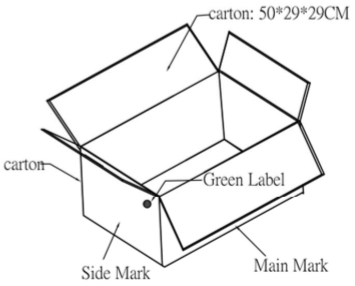


四



五





70pcs per Carton

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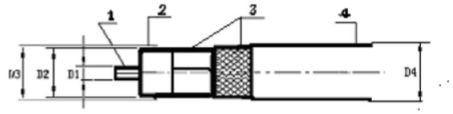
6. Material Description and RoHS Test Report

穗格 WWW.SUIRONGCABLE.COM 深圳市穗榕同轴电缆科技有限公司

S.R Code: 19082702

LMR-200 Coaxial Cable Specification

（ **LMR-200** 同轴电缆规格书）

Type of coaxial cable: LMR-200					
Legend:					
LMR-200: 1.Inner conductor 内导体 2. Insulation 电缆芯线 3.Outer conductor 外导体 4. Jacket 护套					
Main Electrical properties:					
Characteristic impedance	阻抗	50±2Ohm			
Rated capacitance	电容	78±2 pf/m			
Velocity	速比	81%			
Operating frequency	工作频率	10~3000MHz			
Attenuation at typical frequencies:（dB/m）					
400MHz	900 MHz	1500 MHz	2100MHz	3000MHz	6000MHz
0.220	0.341	0.450	0.551	0.639	1.32
VSWR 10~3000MHz	电压驻波比	1.30Max.			
Mechanical Construction:					
Inner conductor: BC	裸铜线	1.12±0.005mm			
Dielectric:foam PE	绝缘 LLDPE	2.95±0.10mm			
Outer conductor: APA+TC	铝塑覆合箔＋镀锡铜线	3.70±0.12mm（16*6/0.12mm）			
Jacket : PVC Black	护套黑色 PVC	5.0±0.10mm			
Engineering data:					
Maximum Pull Tension	最大拉拔力	42 Ibs			
Minimum bending radius	最小弯曲半径	50mm			
Operating temperature	工作温度	-25~+80°C			
Reel Length	装盘长度	/			
jacket-Marking	产品标识	LOW LOSS 200 PVC COAXIAL CABLE HYT MICROWAVE SYSTEM/NFC			

SuiRong COAXIAL CABLE Co.,Ltd

制造商:深圳市穗榕同轴电缆科技有限公司
生产地:深圳市龙岗区龙西务地铺清水路清水巷 40 号

WWW.SUIRONGCABLE.COM
Tel：+86-755-28217358 Fax+86-755-28217359

2019-08-27

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SGS 台灣網站 → http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp
SGS 大陸網站 → http://rsts.cn.sgs.com/chn/cheres_cn.asp
SGS 韓國網站 → http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp

請輸入以下報告正確資料及檢查碼以便查核
1. 報告編號
2. 報告日期 (YYYY/MM/DD)
3. 產品名稱 (輸入前 10 個字不含空白)
4. 圖示檢查碼 (依指示畫面)

物料中HSF對象物質含量調查表

物料名稱：SMAMN8-2L3M5-SMASFN8 (iEC3.5M)

序號	物料型號	物料各構成名稱	各構成物料的材質	測試報告裡RoHS對應物質測試結果										檢測報告編號	測試日期	測試名稱	測試機構名稱
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	DBP	BBP	DIBP	DEHP				
1	SMA	SMA Male SMA Female	銅	43	28146	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANPC25009215005	2025.04.30	Brass rod (C3604)	SGS
2			鍍金	N.D.	87	N.D.	N.D.							SZXEC25002063401	2025.06.16	Gold plating	SGS
3		Insulator	PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	TAOPC24009783803	2024.12.13	TFE MOLDING POWDEF	SGS
4	HSTUBE	HSTUBE	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC25012572003	2025.06.05	HEAT SHRINKABLE TUBING	SGS
5	LMR200	Cable	PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZXEC25001785002	2025.05.28	PVC 胶粒 红色 白色 黑色	SGS
6			PE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC24022240617	2024.10.22	PE	SGS
7			裸铜	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZXEC25000424913	2025.02.27	Copper wire	SGS
8			镀锡铜	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZXEC25000424905	2025.02.27	Tinned copper wire	SGS
9			AL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	NGBEC25000789619	2025.02.21	aluminium polyester foil	SGS

根據測試報告如實填寫鉛、鎘、汞、六價鉻、PBBs和PBDEs六項禁用物質的含量
包裝材料中鉛、鎘、汞、六價鉻總含量不超過100ppm，鎘的允許濃度為5ppm
歐盟ROHS指令豁免條款2015/863/EU，鋼中合金元素中的鉛含量達0.35%、鋁含量達0.4%、銅合金中的鉛含量達4%

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■ 12m 延長ケーブル iEC12M 仕様

Product Number: iEC12M
Product Name: Coaxial Cable

Specification For Approval

Date: 2021 / 09 / 13

File No.: 210802001

Version: 1.2

IDY P/N : iEC12M

R/N : SMAMN8-2L12M-SMASFN8

Description : Coaxial Cable

Checked By:
Approved By:

Page 1

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Product Number: iEC12M
Product Name: Coaxial Cable

Index:

1. **Revision History / Page 3**
2. **Specification / Page 4**
3. **Characteristics and Reliability Test / Page 5**
4. **S Parameter Test Data / Page 6 ~ 13**
5. **Mechanical and Packing Drawing / Page 14 ~ 15**
6. **Material Description and RoHS Test Report / Page 16 ~ end**

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Product Number: iEC12M
Product Name: Coaxial Cable

1. Revision History

Revision	Date	Change Notification	Description
1.0	2020.09.25	Issued	
1.1	2021.08.02	Added Data	Increased the measurement frequency.
1.2	2021.09.13	Changed Packaging Specifications	The packaging specifications have been changed to the English version.

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Product Number: iEC12M
Product Name: Coaxial Cable

2. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	701~713MHz / 745~826 MHz 832~847MHz / 876~897MHz 867~1712MHz / 1852~1900MHz 1445~1977MHz / 1842~2687MHz 1782~2647MHz / 2400~5470MHz 3302~4197 MHz / 4402~4997 MHz 5597~5725 MHz / 1575~1561MHz
Impedance	50 Ohm
Insertion Loss	>= -4.0 dB @ 701~713MHz >= -4.0 dB @745~826 MHz >= -4.2 dB @832~847MHz >= -4.2 dB @876~897MHz >= -4.2 dB @867~952 MHz >= -5.6 dB @1430~1712MHz >= -5.5 dB @1575~1561MHz >= -6.3 dB @1852~1900MHz >= -6.3 dB @1445~1977MHz >= -8.0 dB @1842~2687MHz >= -7.0 dB @1782~2647MHz >= -12 dB @2400~5470MHz >= -10 dB @3302~4197 MHz >= -12 dB @4402~4997 MHz >= -12 dB @5597~5725 MHz
Voltage (breakdown)	> 500V
Insulation Resistance	>= 500 M ohm
B. Mechanical Characteristics	
Pull Test of Connector	>= 5Kg
Mating Cycles	> 500

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Product Number: iEC12M
Product Name: Coaxial Cable

C. Environmental	
Operation Temperature	- 25 ˚C ~ + 70 ˚C
Storage Temperature	- 30 ˚C ~ + 80 ˚C

3. Characteristics and Reliability Test

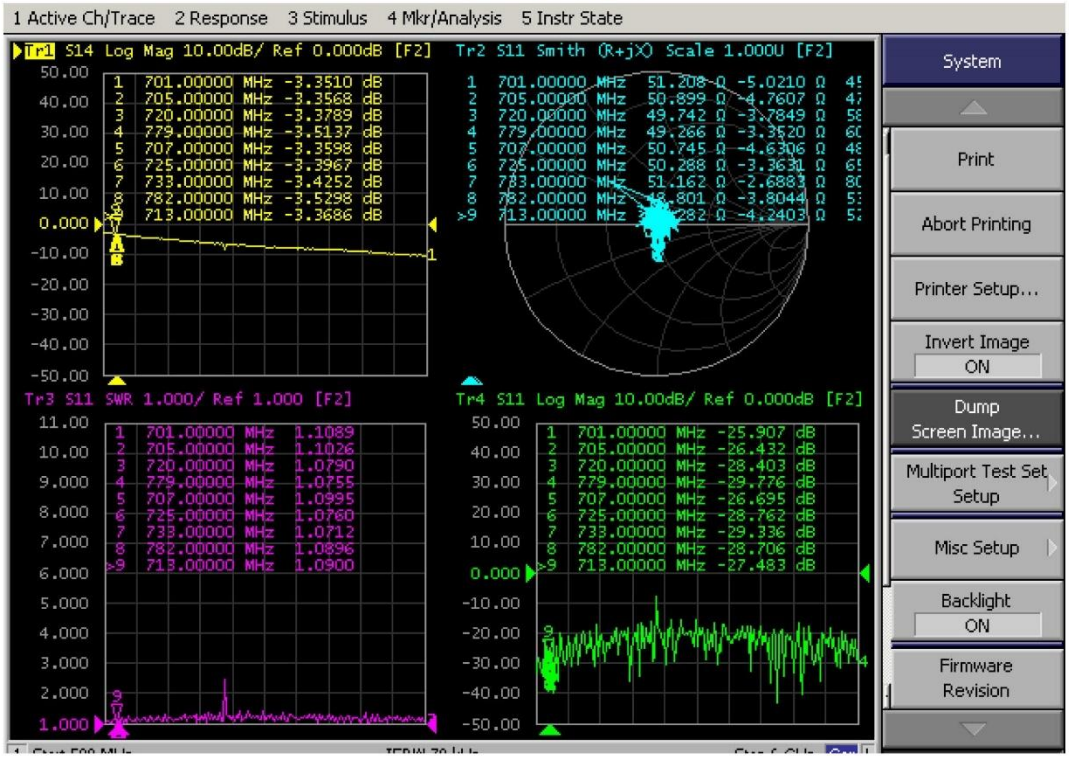
Test Items		Test Condition and Procedure	Requirements	Result
C1	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
C2	Insertion Loss	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
M4	Pull Test	Holding with individual specification; force applied to axis of terminal.	1. Directive DUT specification 2. Frequency Tol.≤5%	PASS
M6	Dimension	Inspection of dimension, color, material, package, surface process.	Directive DUT specification	PASS
E2	Salt Spray	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%;Time: 24H	1. No Visual Damage 2. Frequency Tol.≤5%	PASS
E3	Temperature and Humidity Chamber	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5%	PASS
E5	Aging test	GB /T 2423.2 - 2008 Temp: 80°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5%	PASS
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2015/863/EU	PASS

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Product Number: iEC12M
Product Name: Coaxial Cable

4. S Parameter Test Data

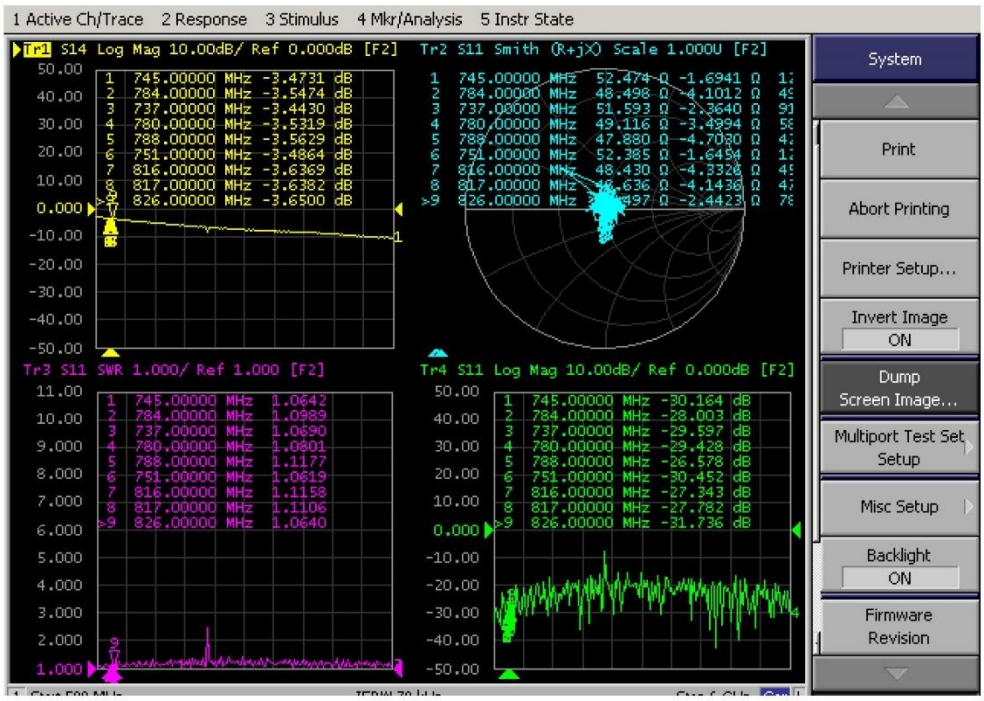
701~713MHz



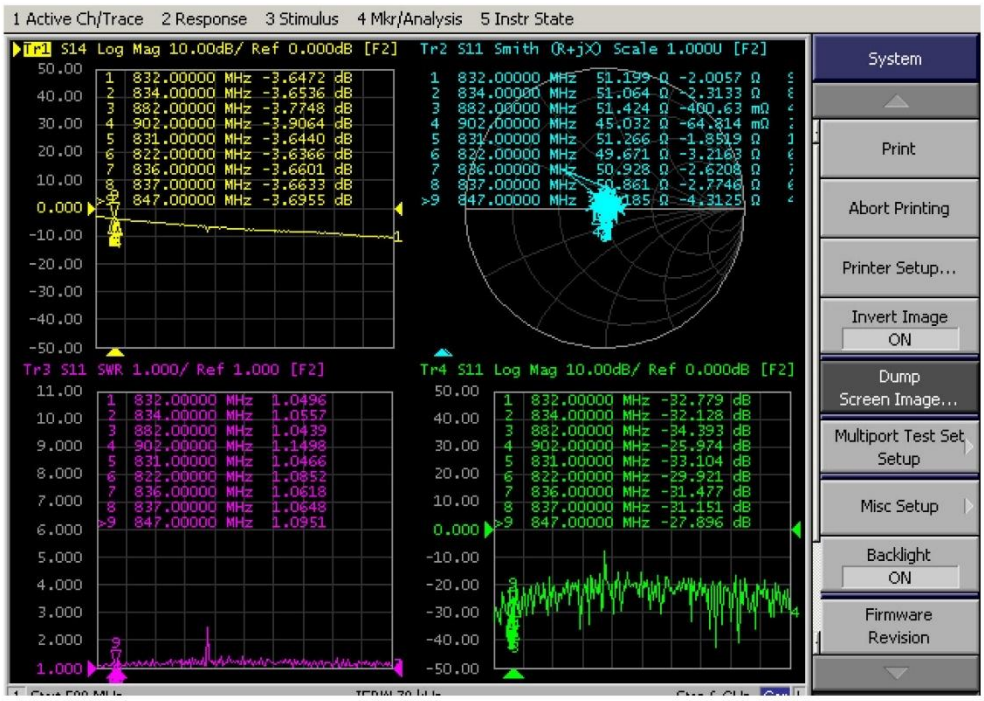
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Product Number: iEC12M
Product Name: Coaxial Cable

745~826MHz



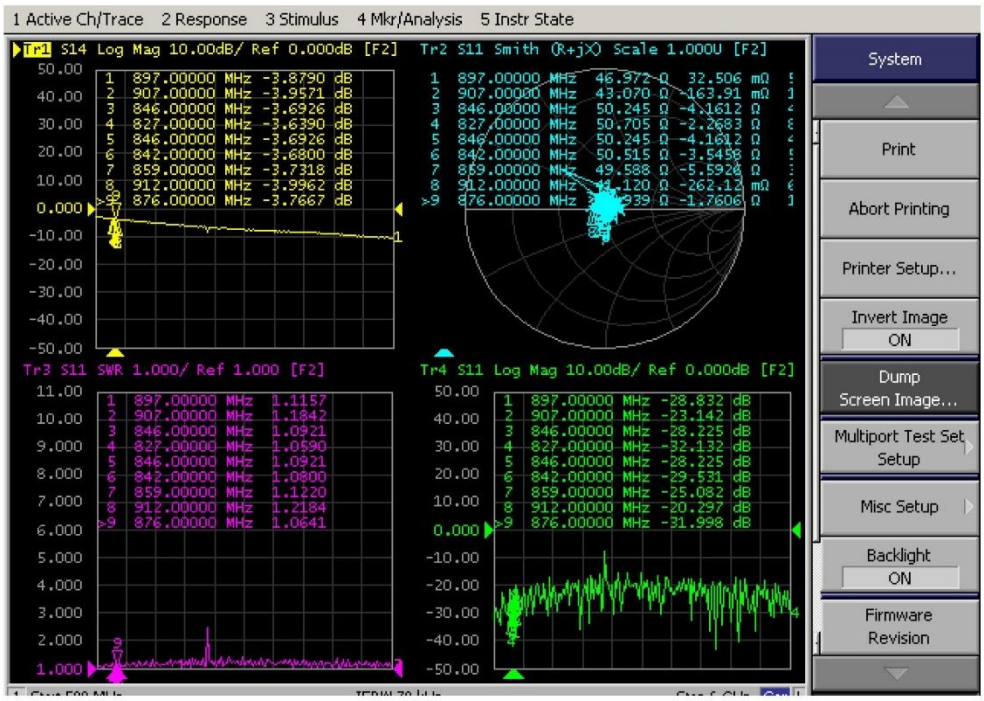
832~847MHz



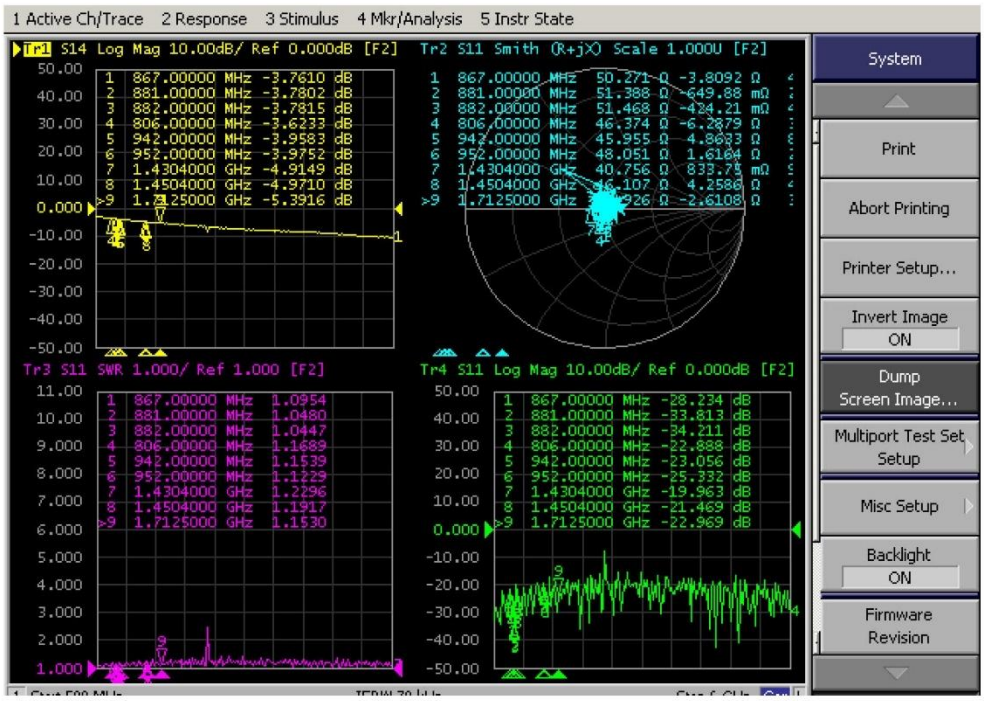
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Product Number: iEC12M
Product Name: Coaxial Cable

876~897MHz



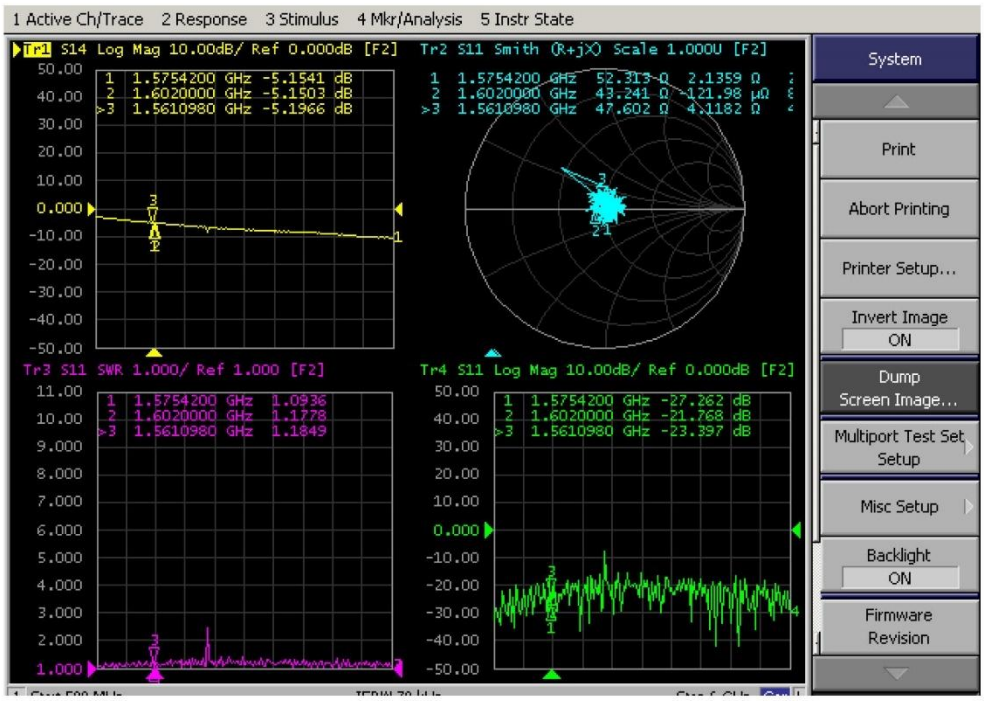
867~1712MHz



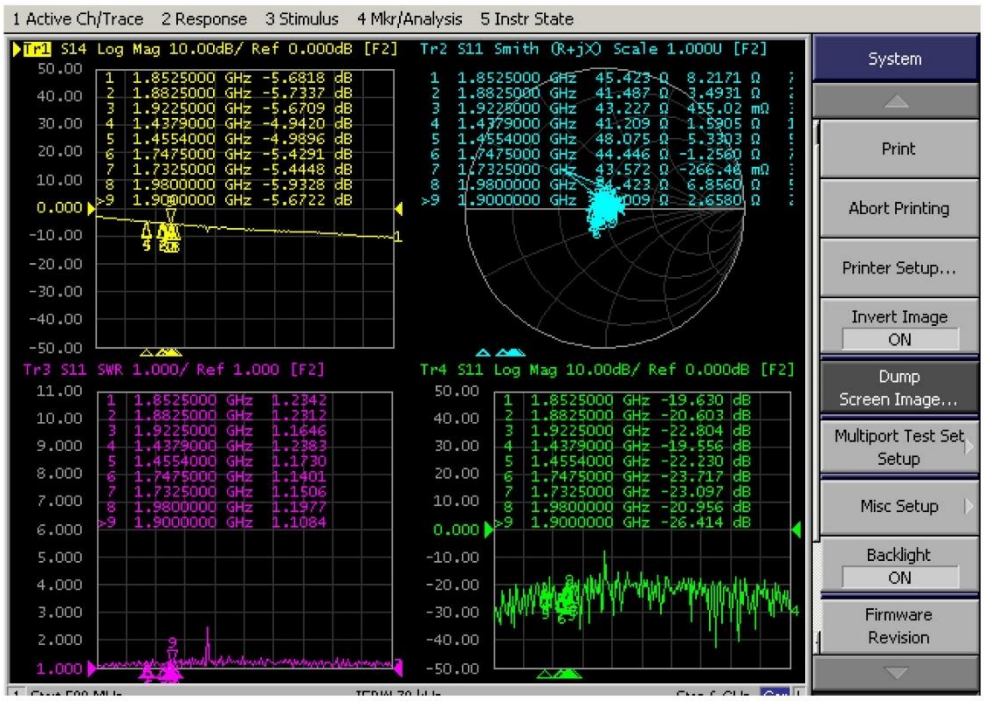
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Product Number: iEC12M
Product Name: Coaxial Cable

1575~1561MHz



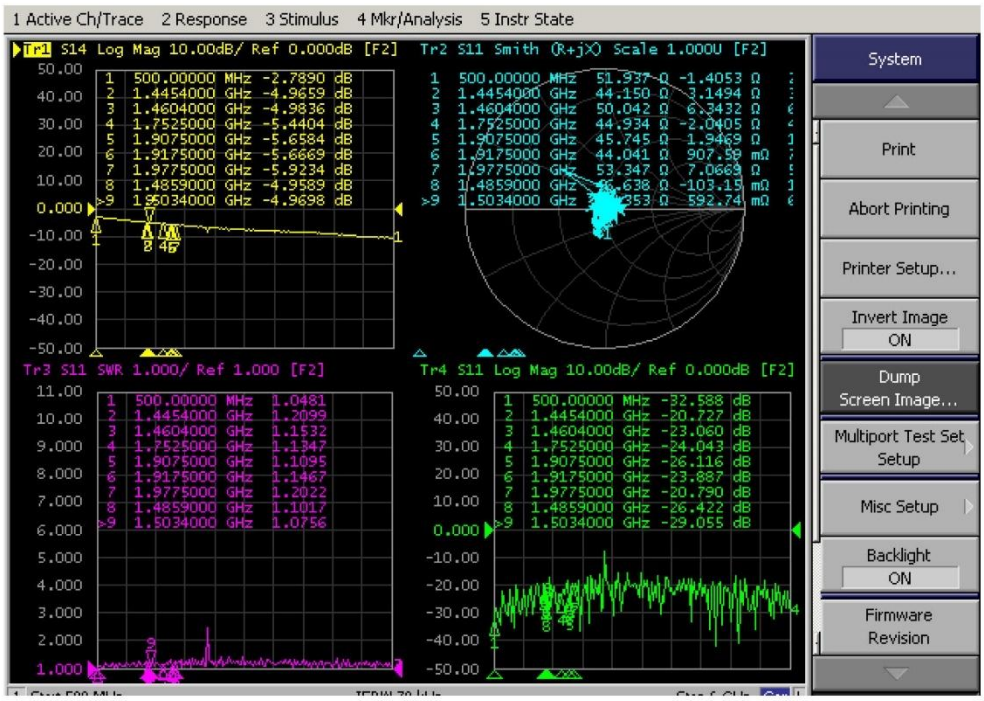
1852~1900MHz



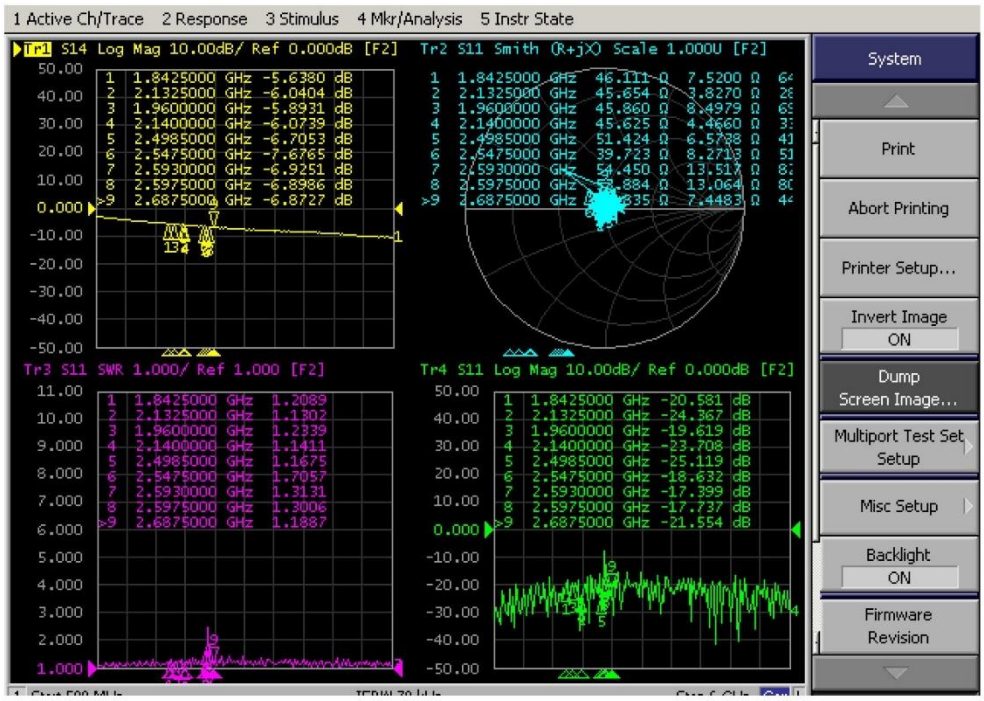
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Product Number: iEC12M
Product Name: Coaxial Cable

1445~1977MHz



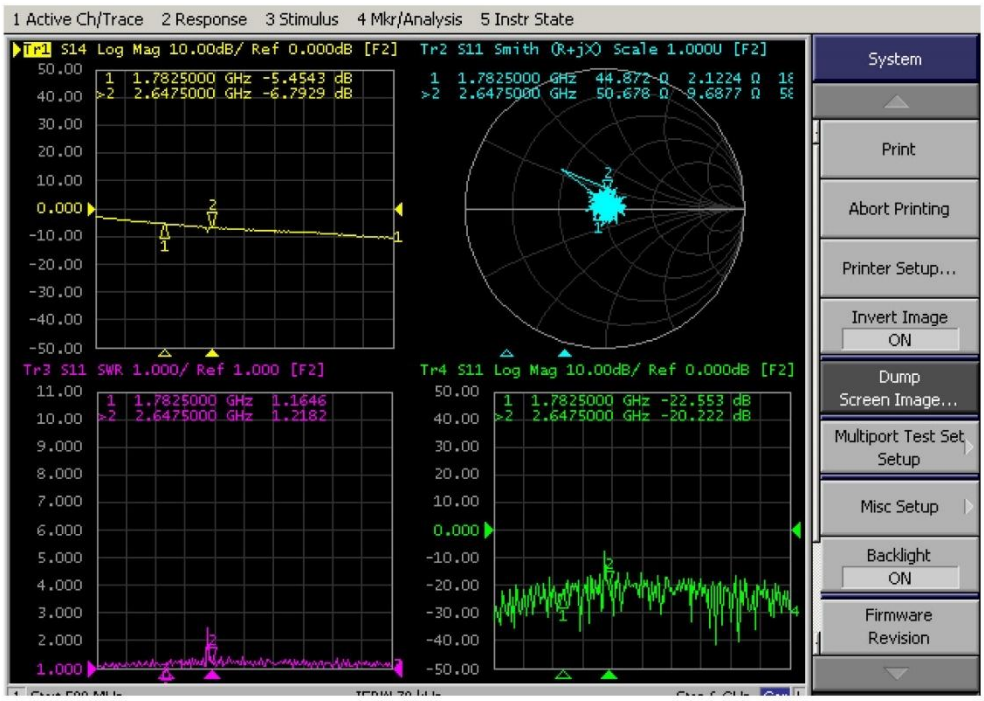
1842~2687MHz



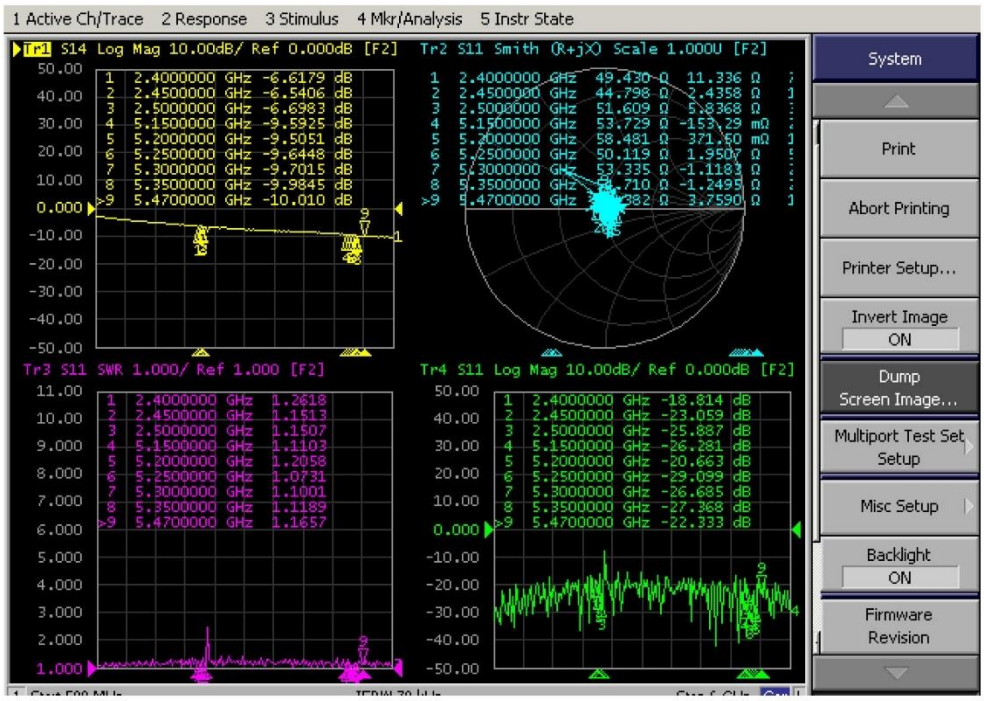
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Product Number: iEC12M
Product Name: Coaxial Cable

1782~2647MHz



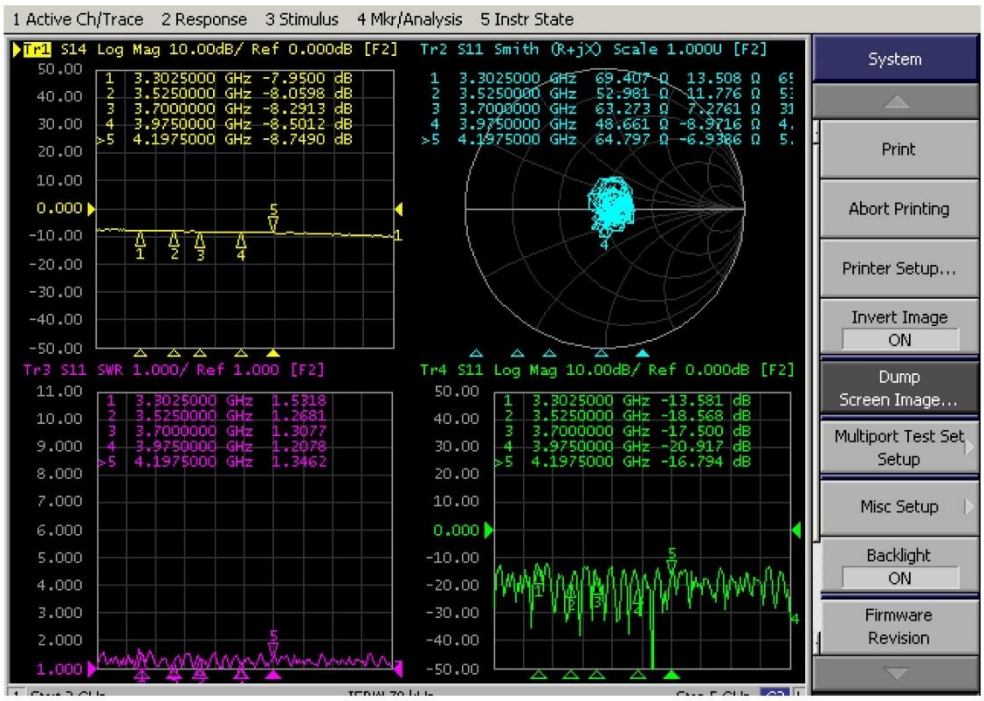
2400~5470MHz



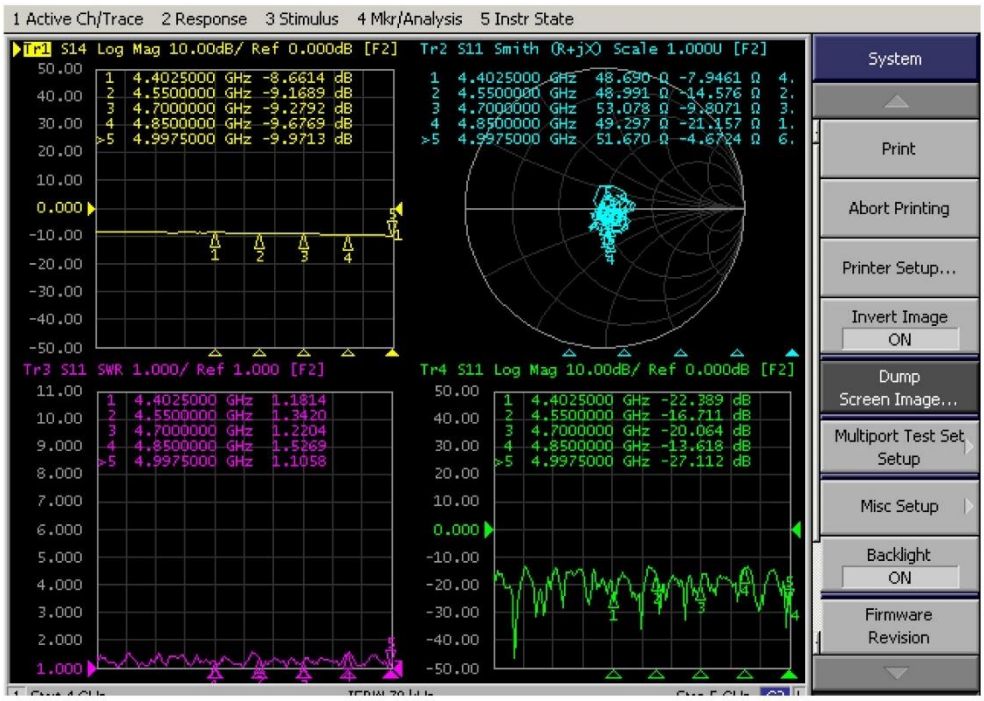
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Product Number: iEC12M
Product Name: Coaxial Cable

3302~4197 MHz



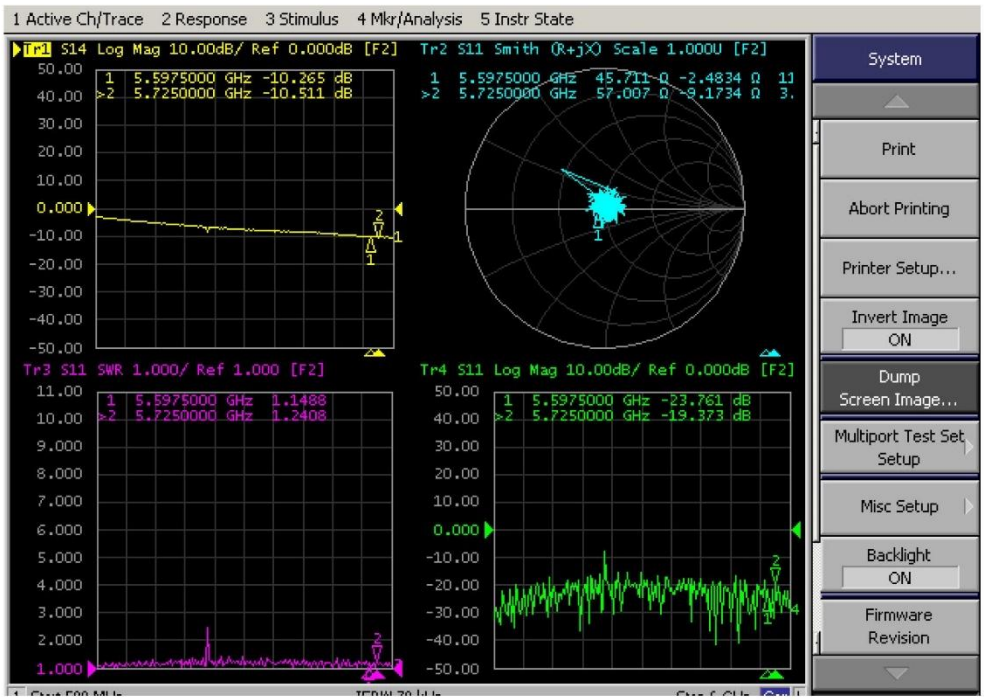
4402~4997 MHz



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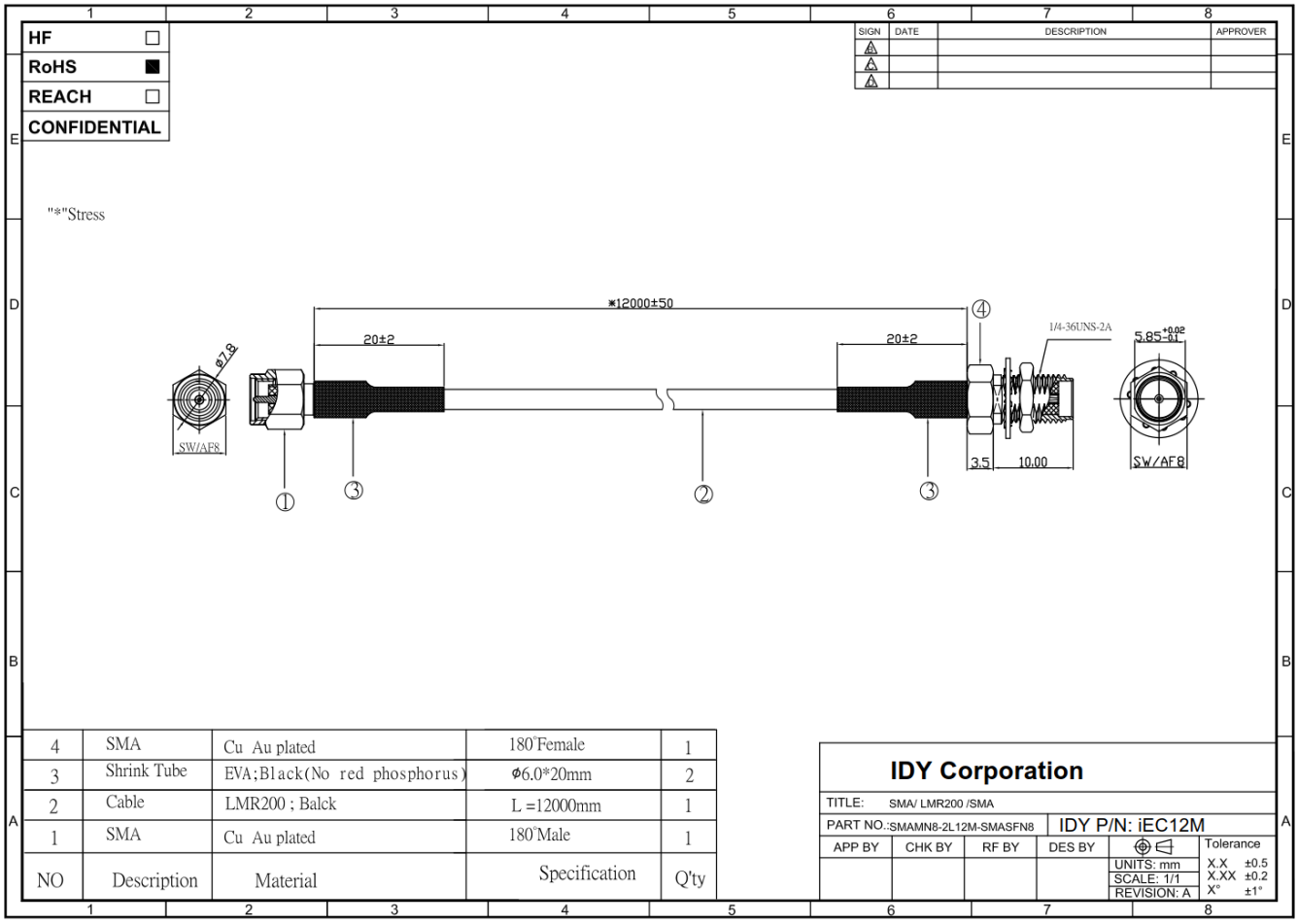
Product Number: iEC12M
Product Name: Coaxial Cable

5597~5725MHz



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＜iEC12M Mechanical Drawings＞



NO	Description	Material	Specification	Q'ty
4	SMA	Cu Au plated	180°Female	1
3	Shrink Tube	EVA;Black(No red phosphorus)	Φ6.0*20mm	2
2	Cable	LMR200 ; Balck	L =12000mm	1
1	SMA	Cu Au plated	180°Male	1

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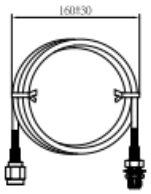
＜iEC12M Packaging Specification＞

Product packaging specification

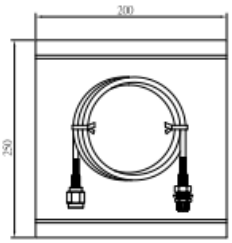
Date：2021.08.05 IDY P/N: iEC12M page: 1 of 1

Product NO : SMAMN8-2L12M-SMASFN8	Edition：A
Product Name :Coaxial Cable	Customer： ALL

1.



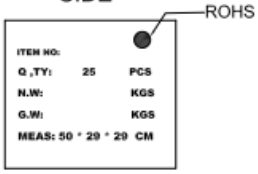
2.



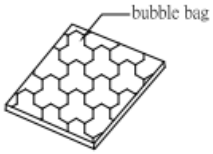
1 PCS / BAG

3.

SIDE

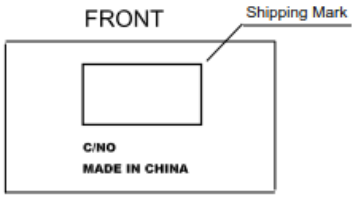


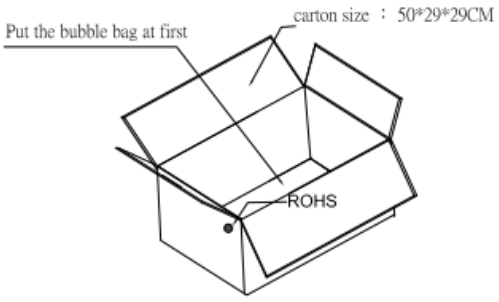
4.



Put a ROHS label on the side of master carton,
fill in the product part number, quantity, net weight and gross weight.

5.





25PCS / CARTON

APPROVED BY : _____ CHECKED BY : _____ DESIDNED BY：_____

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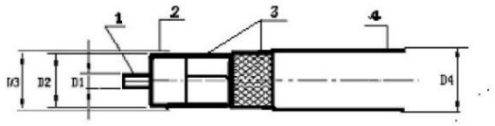
＜iEC12M Cable Specification＞

穗榕 WWW.SUIRONGCABLE.COM 深圳市穗榕同轴电缆科技有限公司

S.R Code: 18040705

R-CB-LMR-200 Coaxial Cable Specification

（ **LMR-200** 同轴电缆规格书）

Type of coaxial cable: LMR-200				
Legend:				
LMR-200: 1.Inner conductor 内导体 2. Insulation 电缆芯线 3.Outer conductor 外导体 4. Jacket 护套				
Main Electrical properties:				
Characteristic impedance	阻抗	50±2Ohm		
Rated capacitance	电容	78±2 pf/m		
Velocity	速比	81%		
Operating frequency	工作频率	10~3000MHz		
Attenuation at typical frequencies:（dB/m） Remarks: We confirmed that typical frequencies can be up to 6000MHz				
400MHz	900 MHz	1500 MHz	2100MHz	3000MHz
0.220	0.341	0.450	0.551	0.639
VSWR 10~3000MHz	电压驻波比	1.30Max.		
Mechanical Construction:				
Inner conductor: BC	裸铜线	1.12±0. 005mm		
Dielectric:foam PE	绝缘 FPE	2.95±0. 10mm		
Outer conductor: APA+TC	铝塑覆合箔＋镀锡铜线	3.70±0. 12mm（16*6/0.12mm）		
Jacket : PVC Black	护套黑色 PVC	5.0±0.10mm		
Engineering data:				
Maximum Pull Tension	最大拉拔力	42 lbs		
Minimum bending radius	最小弯曲半径	50mm		
Operating temperature	工作温度	-25~+70°C		
Reel Length	装盘长度	/		
jacket-Marking	产品标识	LOW LOSS 200 PVC HYT CABLE MICROWAVE SYSTEM/NFC		

SuiRong COAXIAL CABLE Co.,Ltd

制造商:深圳市穗榕同轴电缆科技有限公司
生产地:深圳市龙岗区龙西务地铺清水路清水巷 40 号

WWW.SUIRONGCABLE.COM
Tel：+86-755-28217358 Fax+86-755-28217359

2018-04-07

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＜iEC12M RoHS Test＞

SGS 台灣網站 → http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp
SGS 大陸網站 → http://rsts.cn.sgs.com/chn/cheres_cn.asp
SGS 韓國網站 → http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp

請輸入以下報告正確資料及檢查碼以便查核
1. 報告編號
2. 報告日期 (YYYY/MM/DD)
3. 產品名稱 (輸入前 10 個字不含空白)
4. 圖示檢查碼 (依指示畫面)

填表：	
部門：	
職務：	

物料中HSF對象物質含量調查表

物料名稱：SMAMN8-2L12M-SMASFN8 (iEC12M)

序號	物料型號	物料各構成名稱	各構成物料的材質	測試報告裡RoHS2.0對應物質測試結果										檢測報告編號	測試日期	測試名稱	測試機構名稱
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	DBP	BBP	DIBP	DEHP				
1	SMA	180° Female 180°Male	銅	39	32915	N.D.	N.D.							CANML2109847002	2021.06.11	黃銅棒（C3604）	SGS
			鍍金	N.D.	31	N.D.	N.D.							SZXEC2101871802	2021.06.28	銅車件電鍍金.	SGS
2	LMR200	Cable	PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2020811102	2020.11.27	PVC Black	SGS
			PE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2022021108	2020.12.18	HDPE	SGS
			AL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	YCCT332020060601RZ2	2020.06.06	铝箔聚酯膜麦拉带	YCCT
			裸铜	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	TSNEC2002256101	2020.11.30	ELECTRICIAN	SGS
			镀锡铜	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	C210301069002-0	2021.03.05	镀锡线0.15	CPST
3	Shrink Tub	EVA	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2022443601	2020.12.22	HEAT SHRINKABLE TUBING	SGS

根據測試報告如實填寫鉛、鎘、汞、六價鉻、PBBs和PBDEs六項禁用物質的含量
包裝材料中鉛、鎘、汞、六價鉻總含量不超過100ppm，鎘的允許濃度為5ppm
歐盟ROHS指令豁免條款2015/863/EU、鋼中合金元素中的鉛含量达0.35%、铝含量达0.4%、铜合金中的铅含量达4%

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○ お問い合わせ

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TEL：03－4400－7970

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