納 入 仕 様 書

SW-42F-LTE-B10-I

SW-42F-LTE-B10-I-13.5ME

SW-42F-LTE-B10-I-22ME

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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-B10-I-22M => SW-42F-LTE-B10-I-22ME （延長ケーブル付きアンテナは型番末尾に E を付加） 「外観写真」、「ブラケット部詳細」 追加 「外観図」 差替 「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（2302.5MHz/2350MHz/2397.5MHz）追加
3.4	2024 年 2 月 8 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-B10-13.5ME 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-B10-I シリーズの納入仕様書である。

■ 仕様

1. 型名 SW-42F-LTE-B10-I :アンテナ本体（ケーブル長 10m）のみ
   SW-42F-LTE-B10-I-13.5ME :アンテナ本体（ケーブル長 10m）+3.5m 延長ケーブル（iEC3.5M）
   SW-42F-LTE-B10-I-22ME :アンテナ本体（ケーブル長 10m）+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

周波数範囲	：	690~960/1427. 9~1510. 9/1710~2170/2300~2400/2400~2700MHz/MHz
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	：	+1dBi (Max.)

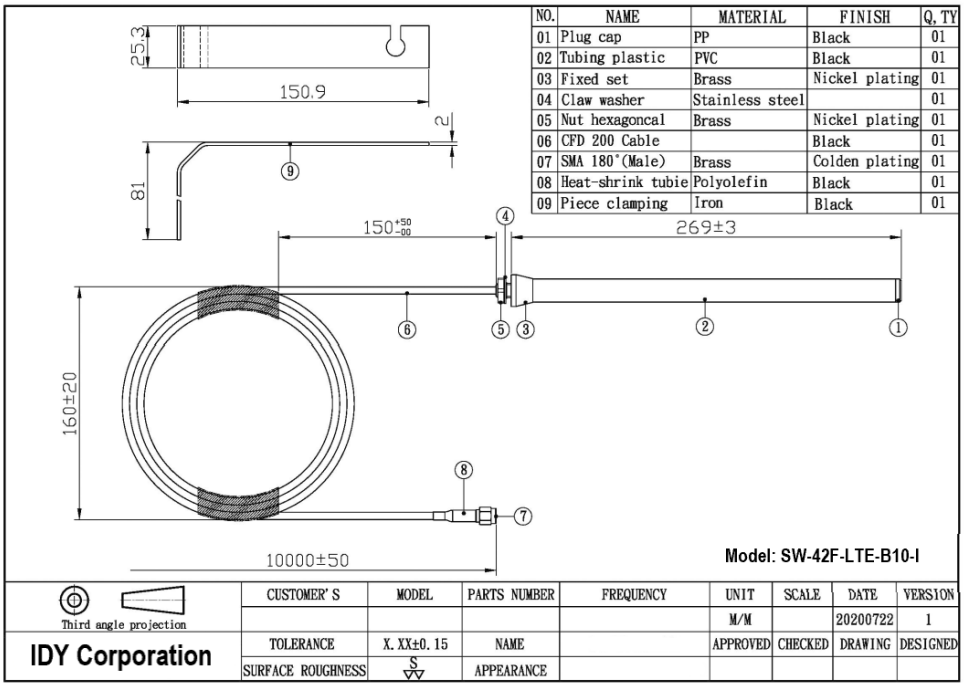
4. 外観仕様

コネクタ	：	SMA-P（オス）
アンテナ寸法	：	269mm ± 3
色	：	黒
同軸ケーブル	：	CFD200 x 10m
外観写真	：	

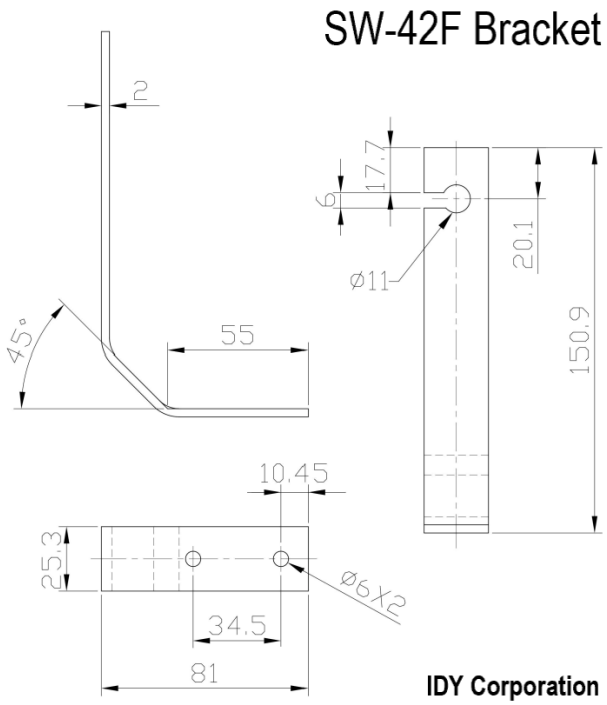


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外観図　　：



ブラケット部詳細



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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。

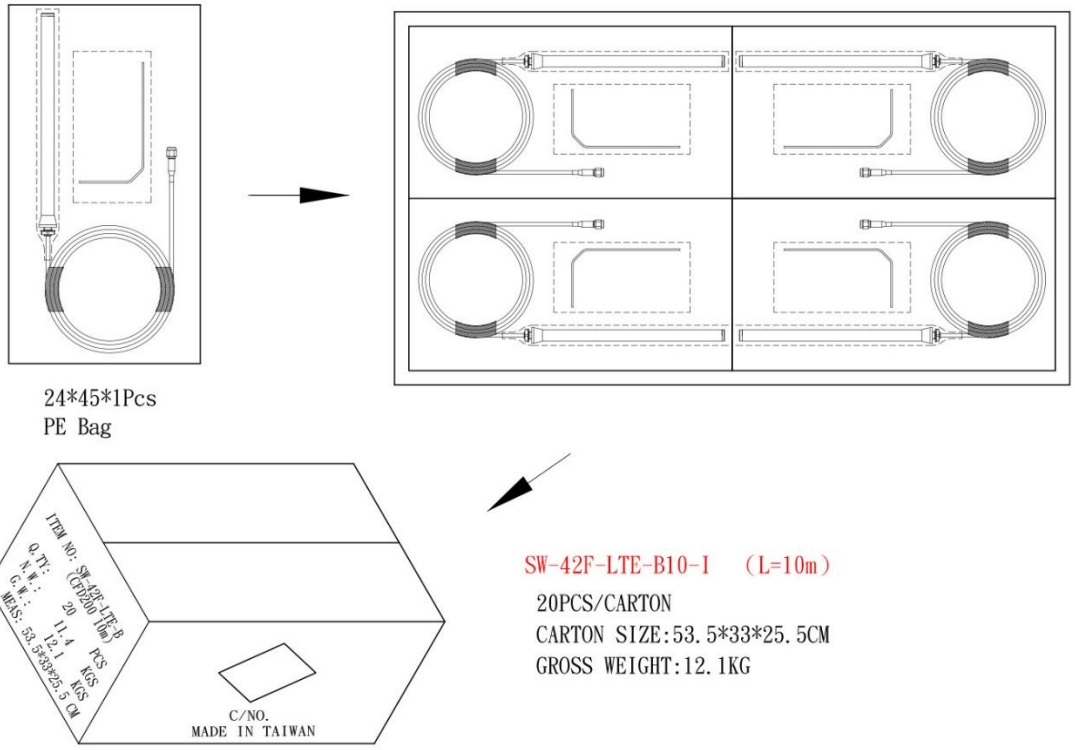
LTE 用



WiMAX/WiMAX2+用

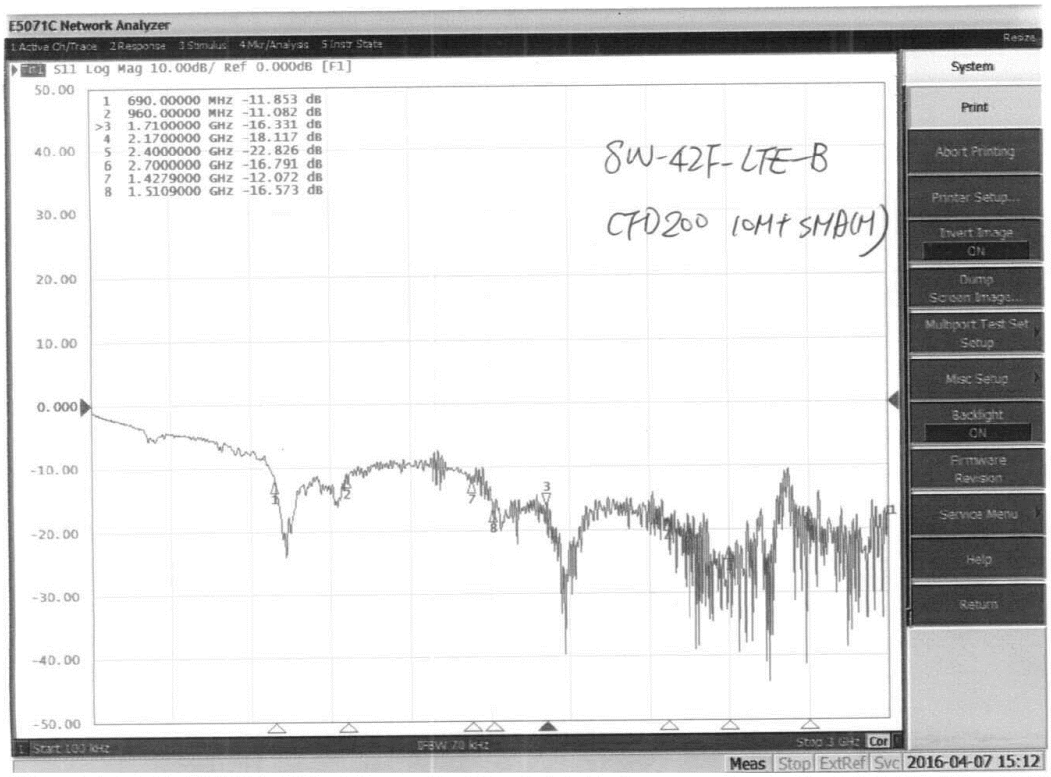


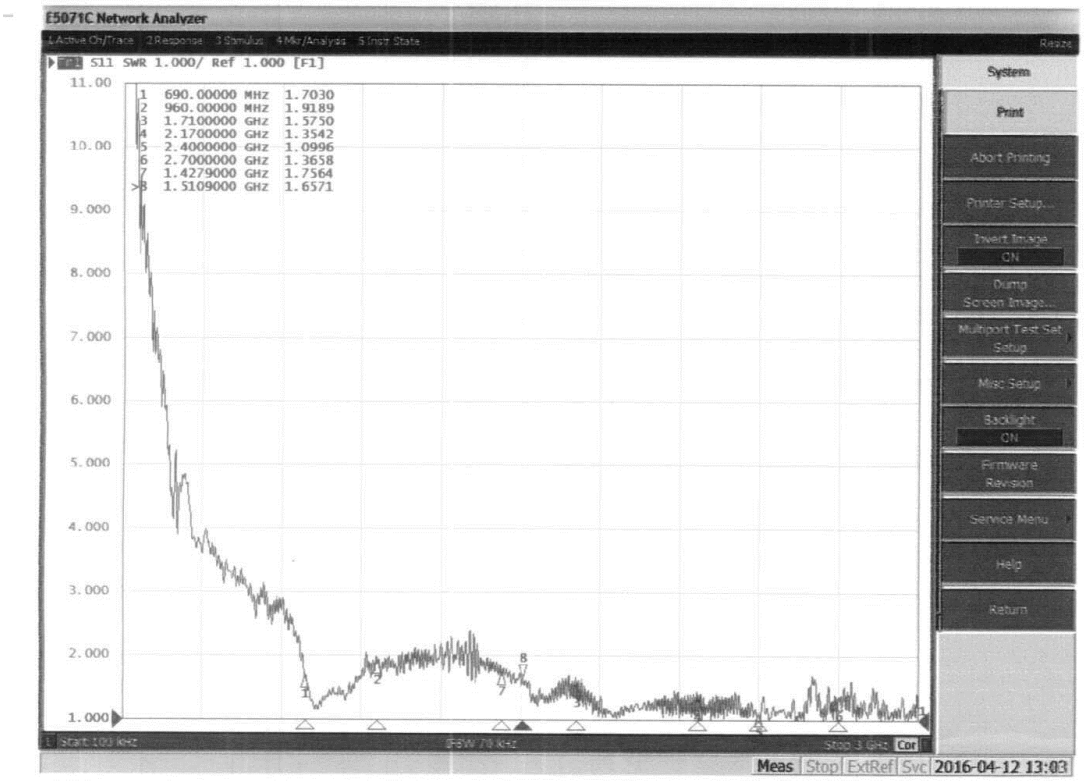
7. 梱包仕様



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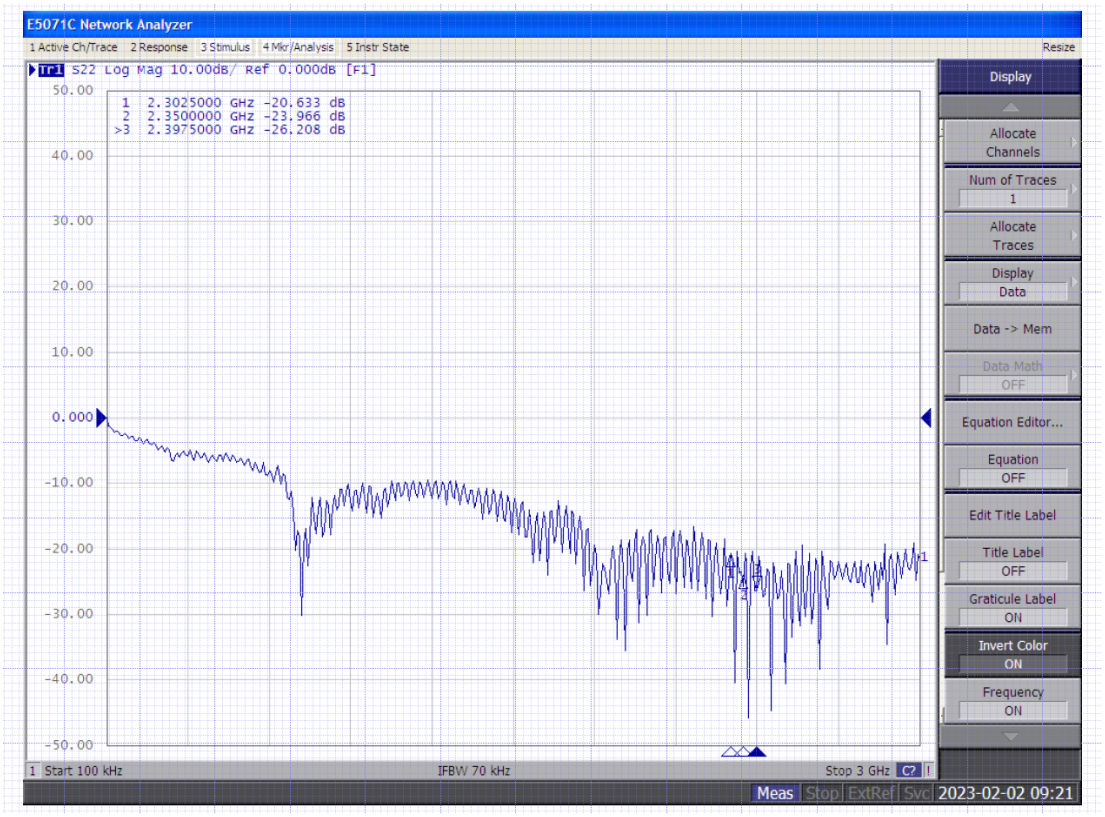
8. アンテナ部 V.S.W.R





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（追加試験：2023 年 2 月）



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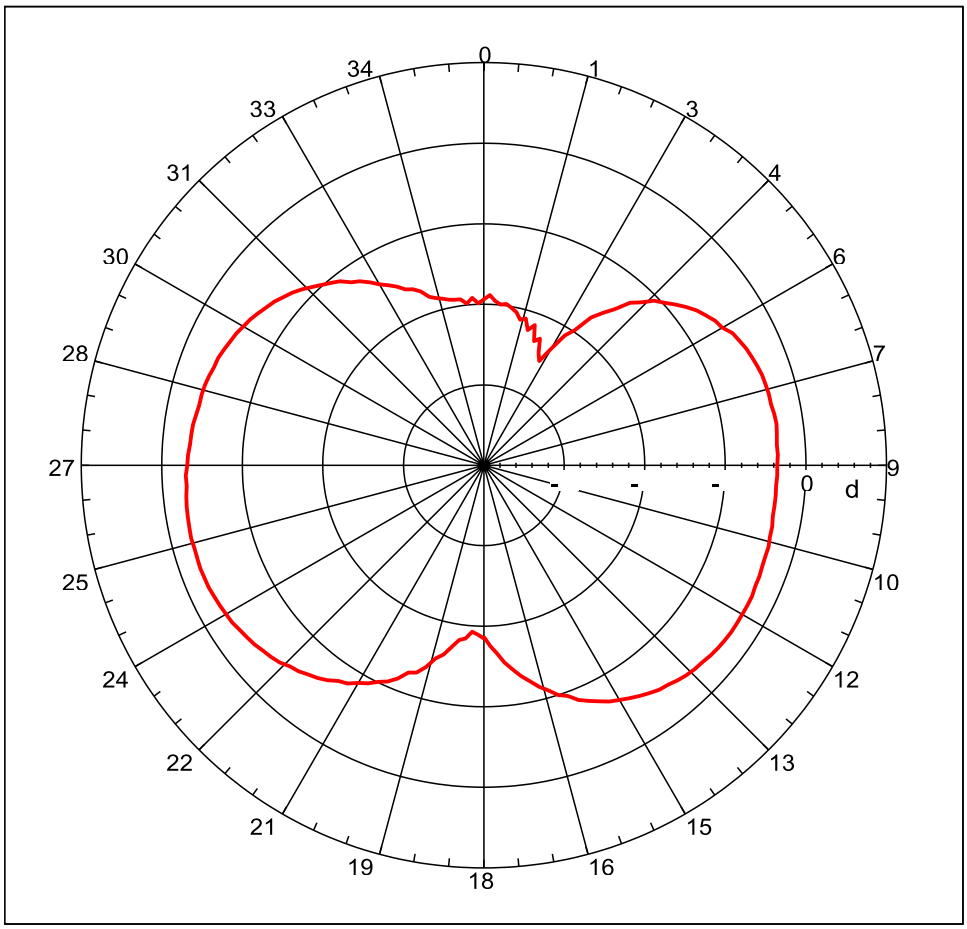


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9. 最大利得 及び 放射パターン

(1) E Plane 806MHz: -2.55426dBi

Far-field amplitude of M80I-B+10M-E.nsi

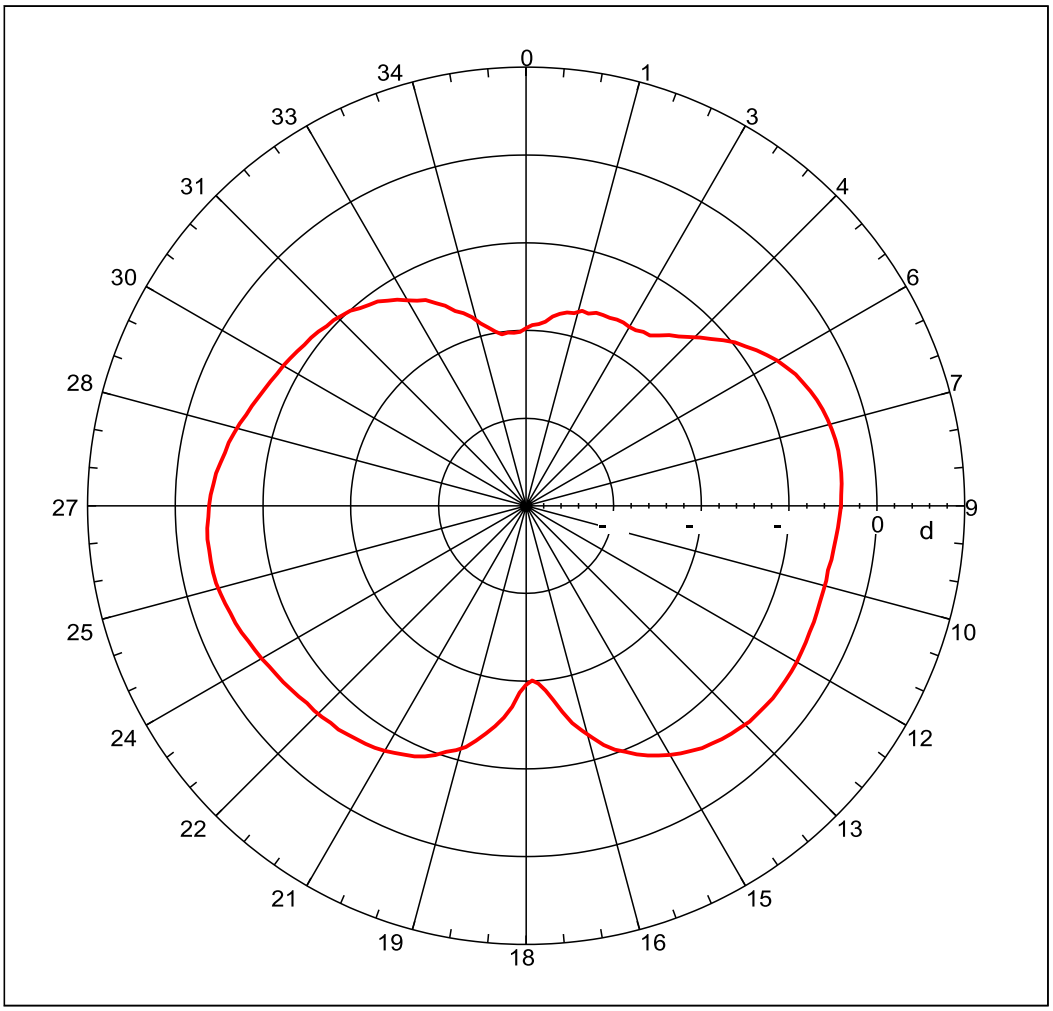


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg 1 0.806 GHz Azimuth Elevation Single-pol
Gain = -2.55426 dBi
Max far-field (global) = -45.30253 dB, Max far-field (plot) = -45.30257 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -110.00001 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\M8 0I-B+10M\M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -7.247 dB
-3. dB beam width: 78.32 deg -6. dB beam width: 103.86 deg -10. dB beam width: 126.92 deg Left Sidelobe: Not Found
Right Sidelobe: -16.31 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
---- --------- ------- --------- ---
0.806 GHz Azimuth Elevation Single-pol

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(2) E Plane 824MHz: -3.48072dBi

Far-field amplitude of M80I-B+10M-E.nsi

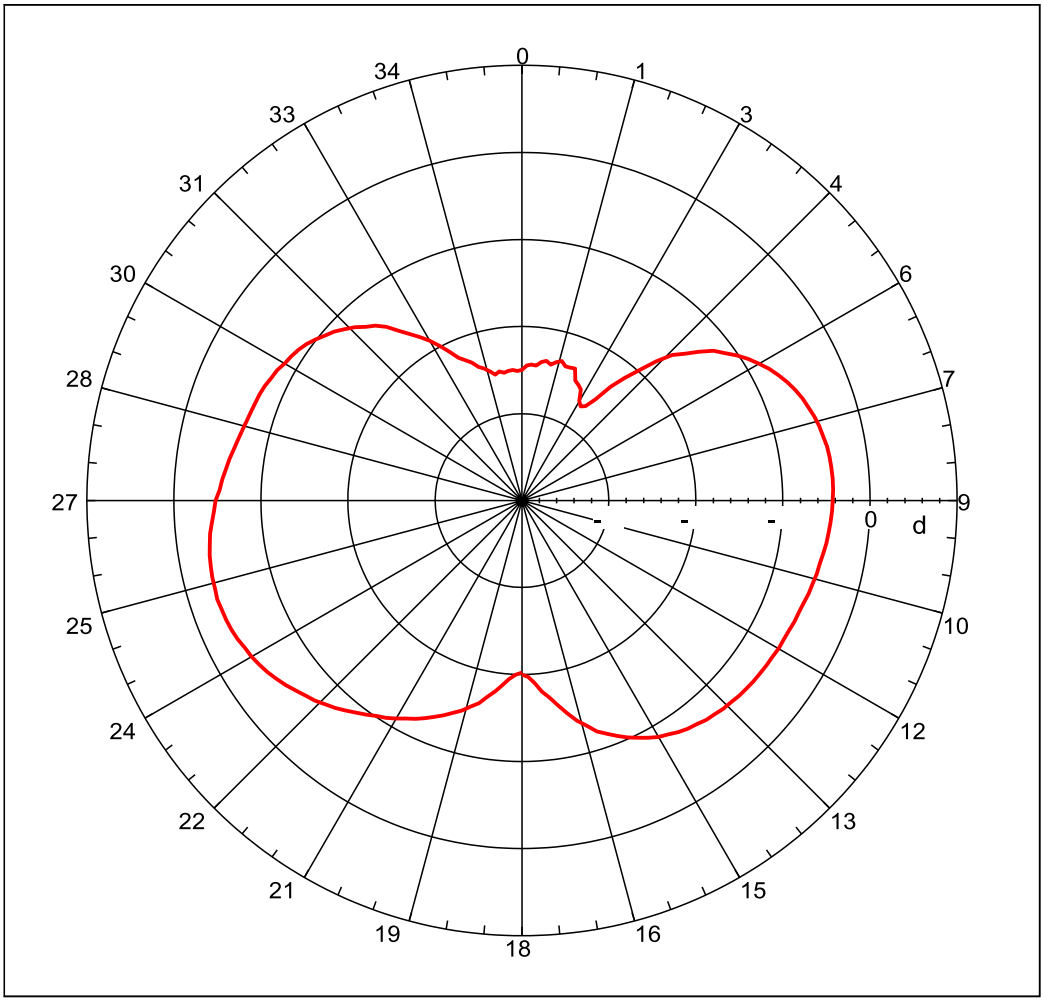


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -3.48072 dBi
Max far-field (global) = -45.62779 dB, Max far-field (plot) = -45.62785 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -96.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M80I-B+10M¥M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.130 dB
-3. dB beam width: 63.93 deg -6. dB beam width: 112.78 deg -10. dB beam width: 142.37 deg Left Sidelobe: Not Found
Right Sidelobe: -13.41 dB at 17.095 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
---- --------- ------- --------- ---
0.824 GHz Azimuth Elevation Single-pol

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(3) E Plane 850MHz: -3.19853dBi

Far-field amplitude of M80I-B+10M-E.nsi

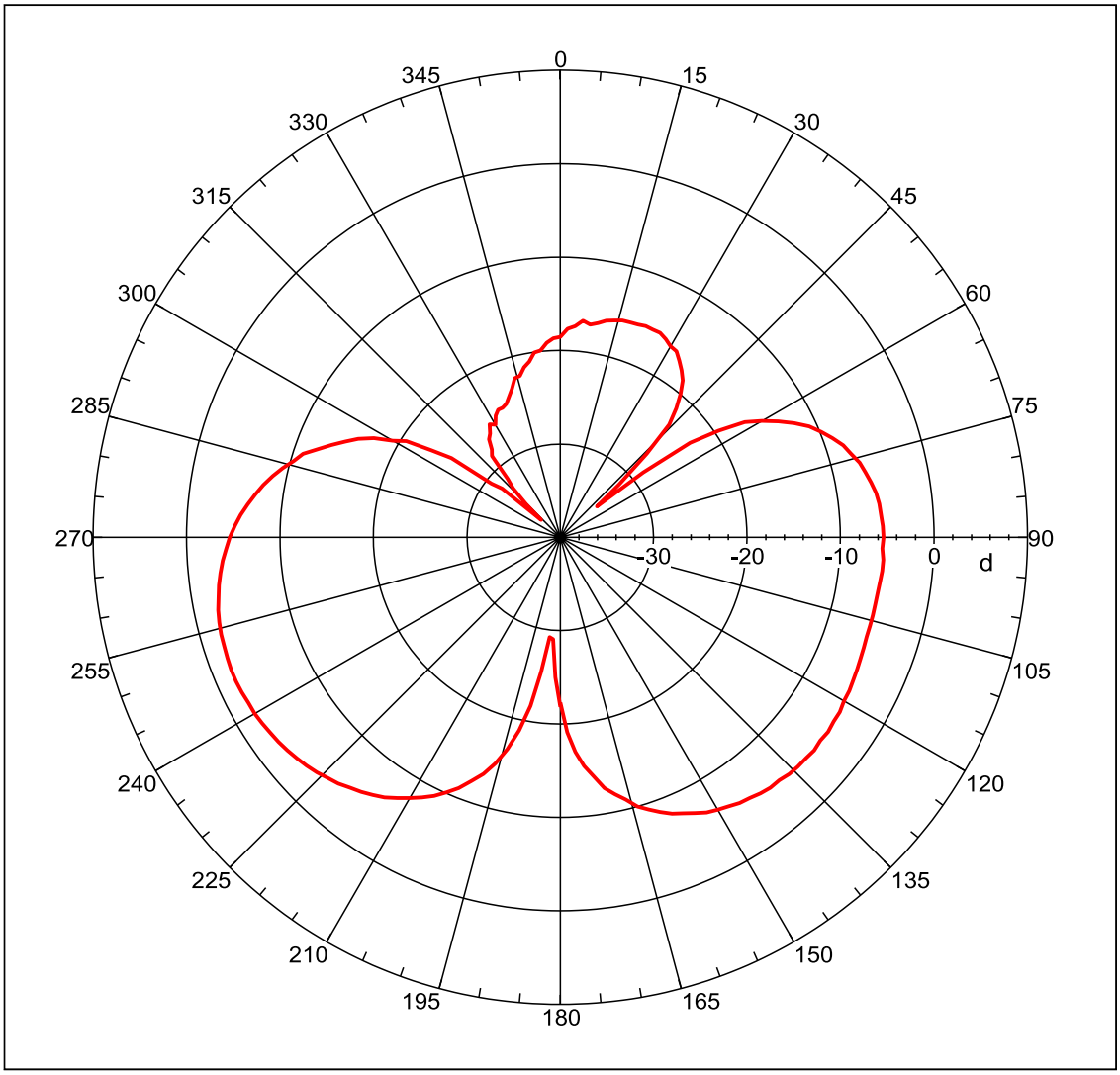


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -3.19853 dBi
Max far-field (global) = -44.7316 dB, Max far-field (plot) = -44.73167 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -108.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M80I-B+10M¥M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -9.459 dB
-3. dB beam width: 49.84 deg -6. dB beam width: 87.74 deg -10. dB beam width: 116.79 deg Left Sidelobe: Not Found
Right Sidelobe: -20.54 dB at 11.061 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
---- --------- ------- --------- ---
0.850 GHz Azimuth Elevation Single-pol

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(4) E Plane 900MHz:- 2.03801dBi

Far-field amplitude of M80I-B+10M-E.nsi

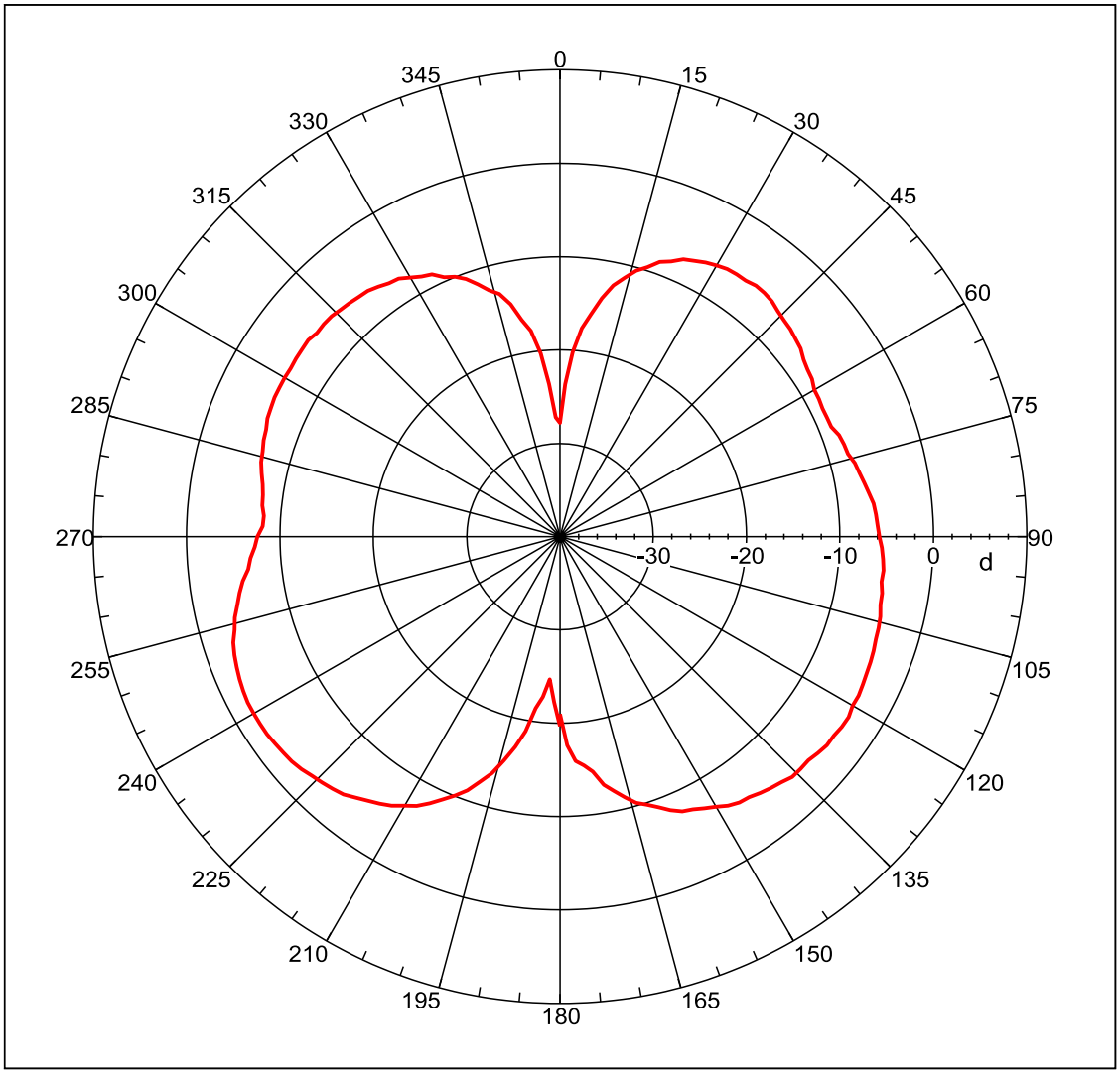


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.03801 dBi
Max far-field (global) = -43.59769 dB, Max far-field (plot) = -43.59771 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -114.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -9.475 dB
-3. dB beam width: 51.92 deg -6. dB beam width: 71.88 deg -10. dB beam width: 89.59 deg Left Sidelobe: Not Found
Right Sidelobe: -23.70 dB at -31.173 deg Far-field display setup Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181 Start= -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
Elevation (deg) Center = 0.000 deg, #pts = 1
Selected beam(s) 1 of 15 Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
0.900 GHz Azimuth Elevation Single-pol

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(5) E Plane 960MHz: -2.14187dBi

Far-field amplitude of M80I-B+10M-E.nsi

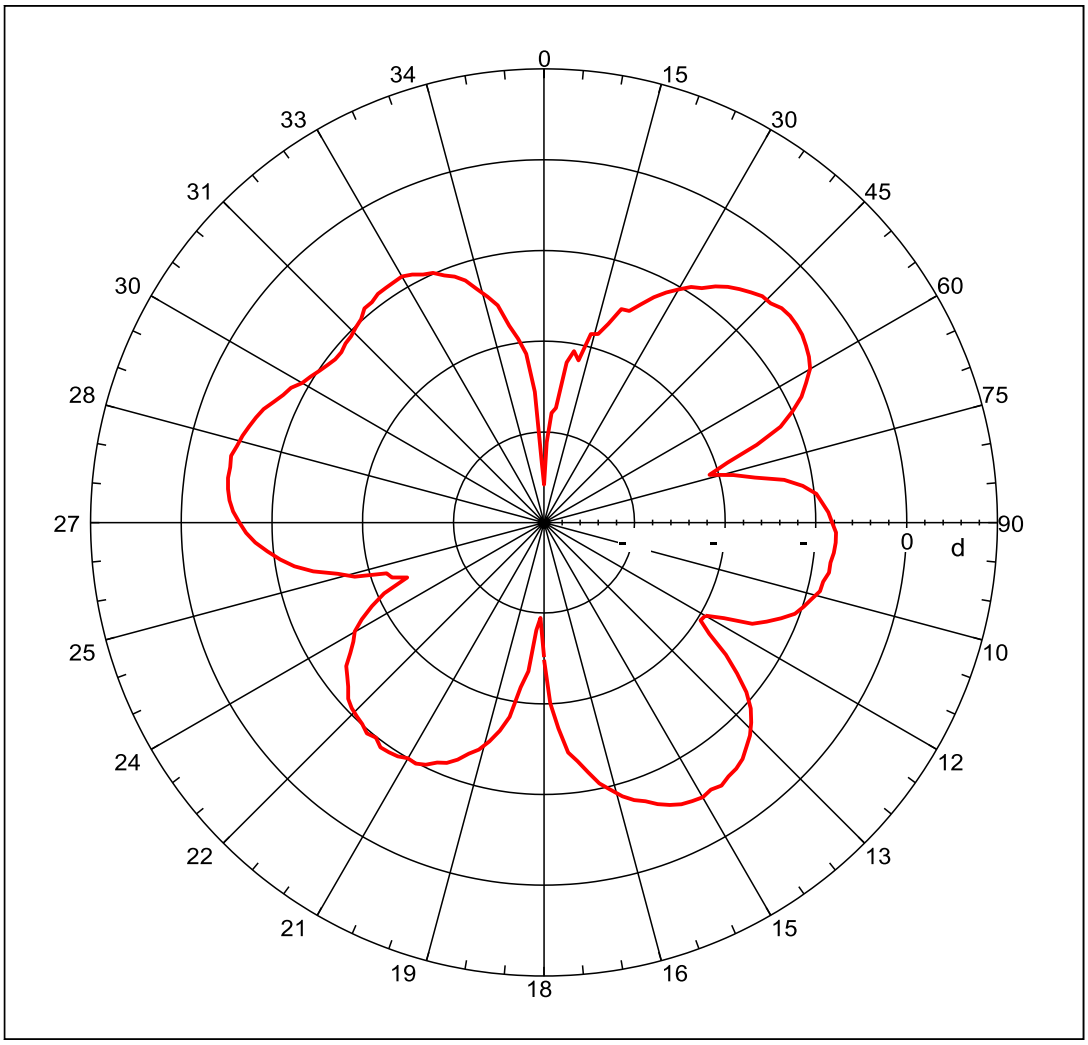


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.14187 dBi
Max far-field (global) = -44.77154 dB, Max far-field (plot) = -44.77157 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -120.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -7.125 dB
-3. dB beam width: 44.56 deg -6. dB beam width: 66.17 deg -10. dB beam width: 145.59 deg Left Sidelobe: Not Found
Right Sidelobe: -3.85 dB at -61.341 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
---- --------- ------- --------- ---
0.960 GHz Azimuth Elevation Single-pol

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(6) E Plane 1427.9MHz: -4.59869dBi

Far-field amplitude of M80I-B+10M-E.nsi

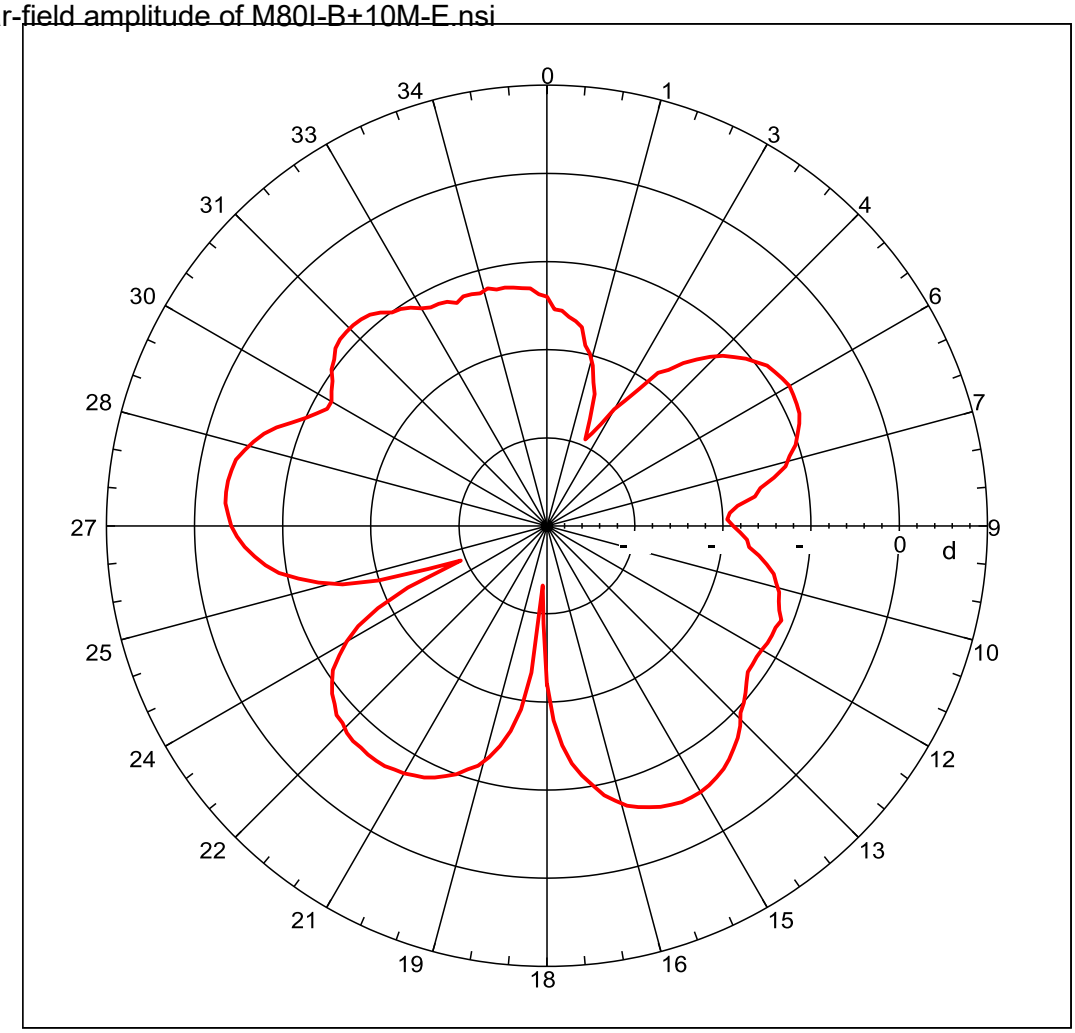


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -4.59869 dBi
Max far-field (global) = -49.57116 dB, Max far-field (plot) = -49.5712 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 49.99999 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -10.433 dB
-3. dB beam width: 26.04 deg -6. dB beam width: 37.32 deg -10. dB beam width: 47.53 deg
Left Sidelobe: -4.09 dB at -29.162 deg Right Sidelobe: -3.17 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 15 Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
1.4279 GHz Azimuth Elevation Single-pol

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(7) E Plane 1475.9MHz: -3.39837dBi

Far-field amplitude of M80I-B+10M-E.nsi

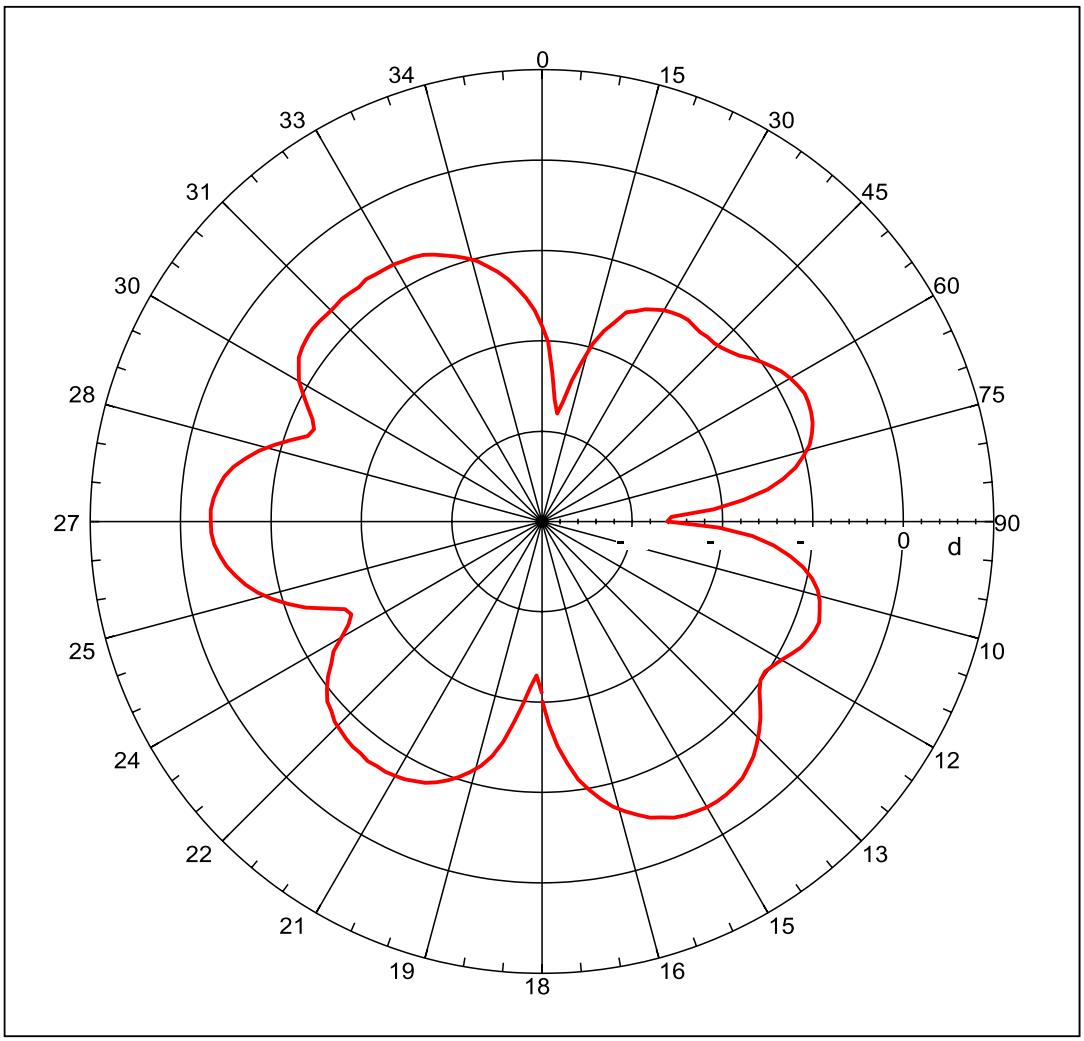


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -3.39837 dBi
Max far-field (global) = -48.43175 dB, Max far-field (plot) = -48.43178 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -84.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -10.682 dB
-3. dB beam width: 23.95 deg -6. dB beam width: 33.50 deg -10. dB beam width: 101.78 deg
Left Sidelobe: -3.74 dB at -137.765 deg Right Sidelobe: -4.96 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
---- --------- ------- --------- ---
1.4759 GHz Azimuth Elevation Single-pol

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(8) E Plane 1510.9MHz: -3.33167dBi

Far-field amplitude of M80I-B+10M-E.nsi

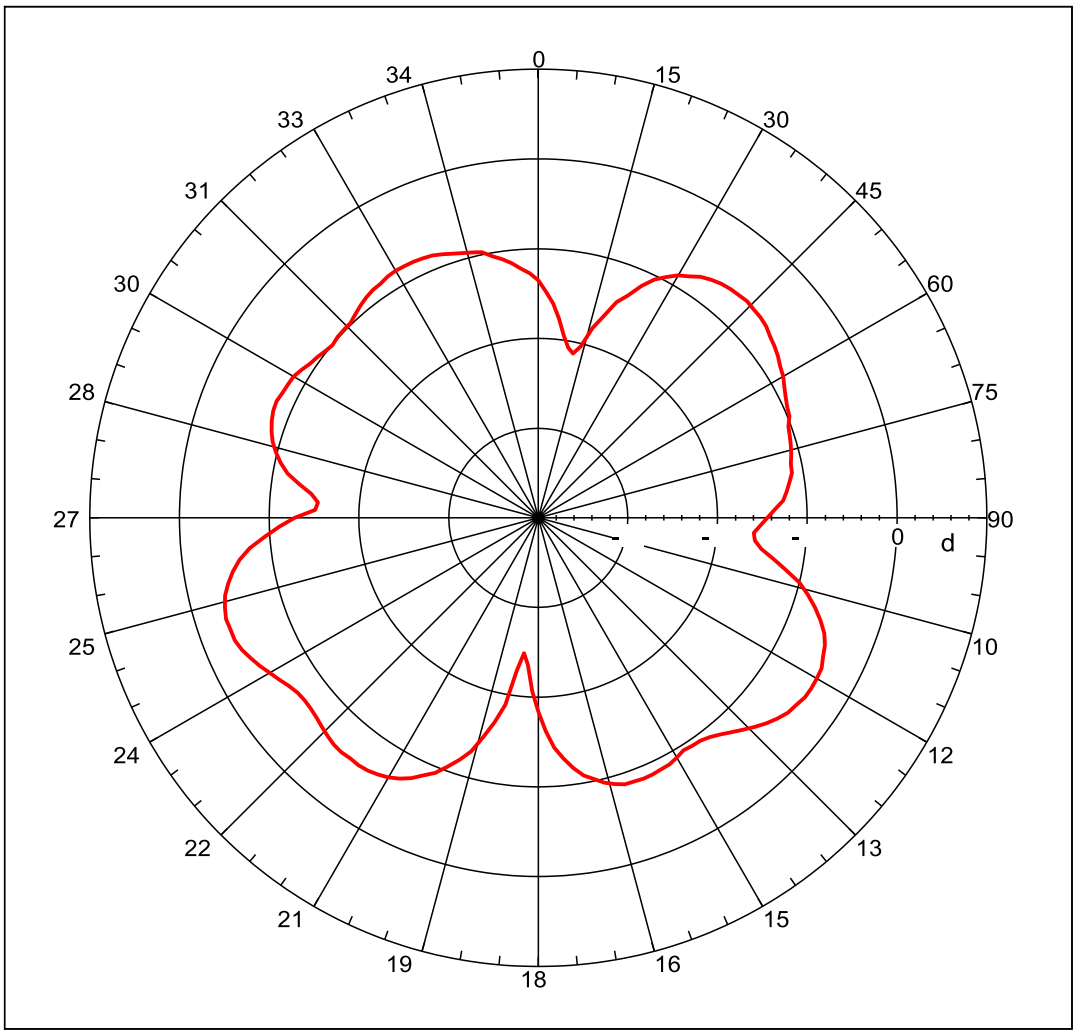


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -3.33167 dBi
Max far-field (global) = -48.10082 dB, Max far-field (plot) = -48.10093 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -88.00001 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -9.374 dB
-3. dB beam width: 23.59 deg -6. dB beam width: 32.82 deg -10. dB beam width: 104.42 deg
Left Sidelobe: -3.87 dB at -143.799 deg Right Sidelobe: -3.53 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
---- --------- ------- --------- ---
1.5109 GHz Azimuth Elevation Single-pol

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(9) E Plane 1710MHz: -3.4246dBi

Far-field amplitude of M80I-B+10M-E.nsi

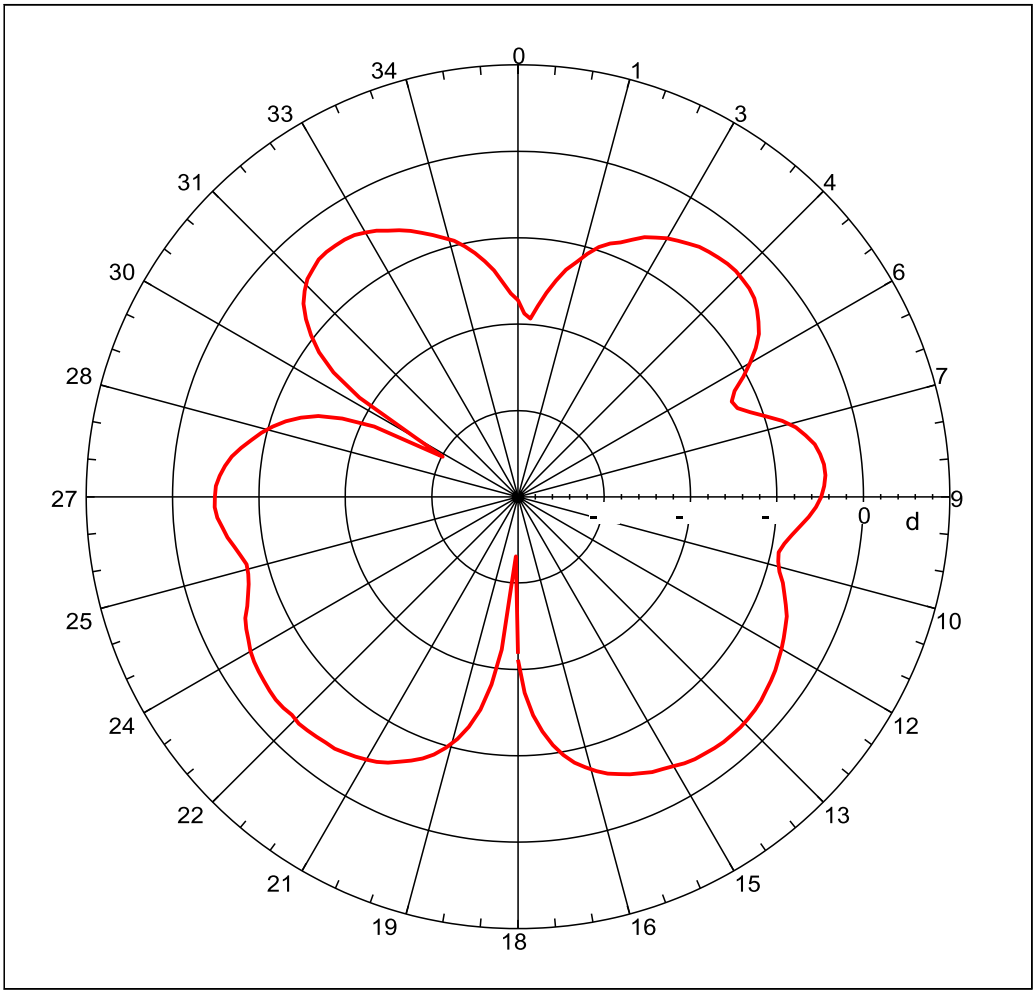


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -3.4246 dBi
Max far-field (global) = -48.61719 dB, Max far-field (plot) = -48.61734 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -108.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.996 dB
-3. dB beam width: 25.91 deg -6. dB beam width: 64.53 deg -10. dB beam width: 75.45 deg
Left Sidelobe: -2.45 dB at -139.777 deg Right Sidelobe: -4.65 dB at -65.363 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
---- --------- ------- --------- ---
1.710 GHz Azimuth Elevation Single-pol

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(10) E Plane 1800MHz: -2.90033dBi

Far-field amplitude of M80I-B+10M-E.nsi

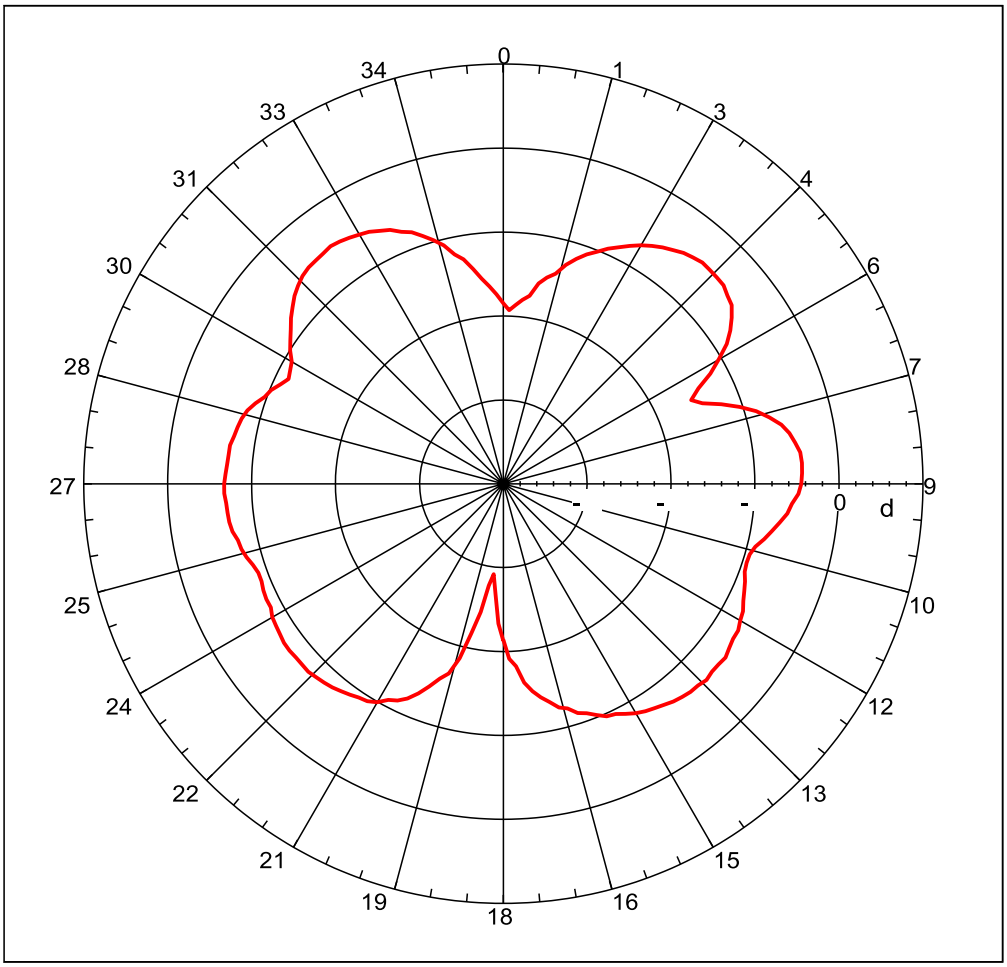


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.90033 dBi
Max far-field (global) = -49.72237 dB, Max far-field (plot) = -49.72246 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 135.99999 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -6.976 dB
-3. dB beam width: 46.42 deg -6. dB beam width: 64.86 deg -10. dB beam width: 108.78 deg
Left Sidelobe: -1.42 dB at 87.486 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
---- --------- ------- --------- ---
1.800 GHz Azimuth Elevation Single-pol

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(11) E Plane 1900MHz: -4.32202dBi

Far-field amplitude of M80I-B+10M-E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -4.32202 dBi

Max far-field (global) = -51.35898 dB, Max far-field (plot) = -51.35909 dB

Normalization: Reference, Network offset = 0.000 dB Hpeak at: 85.99999 deg, Vpeak at: 0.000 deg

Plot centering: On M80I-B+10M-E NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-E.nsi

Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.831 dB

-3. dB beam width: 23.57 deg -6. dB beam width: 86.56 deg -10. dB beam width: 102.85 deg

Left Sidelobe: -0.24 dB at 43.240 deg Right Sidelobe: -2.06 dB at 129.721 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

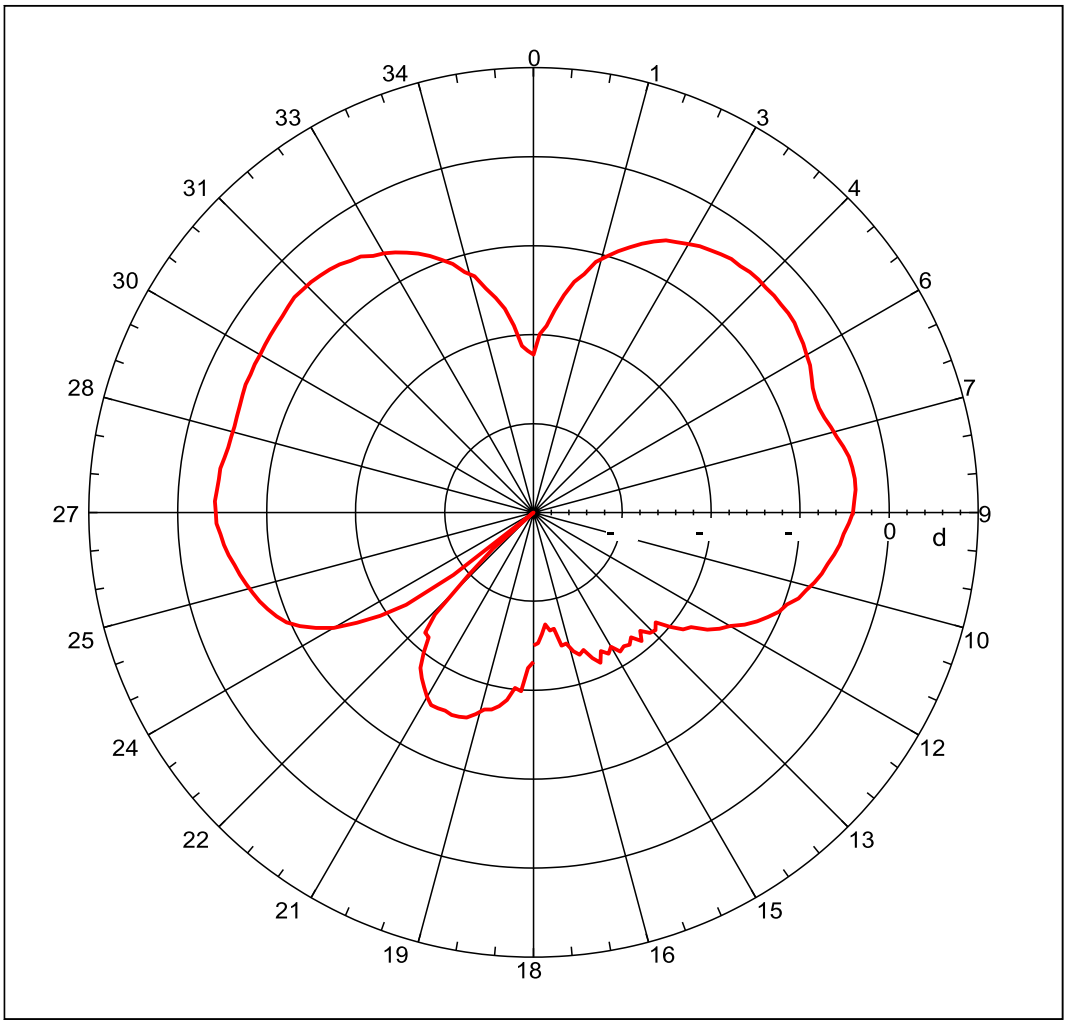
---- --------- ------- --------- ---

1.900 GHz Azimuth Elevation Single-pol

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(12) E Plane 2170MHz: -3.59616dBi

Far-field amplitude of M80I-B+10M-E.nsi

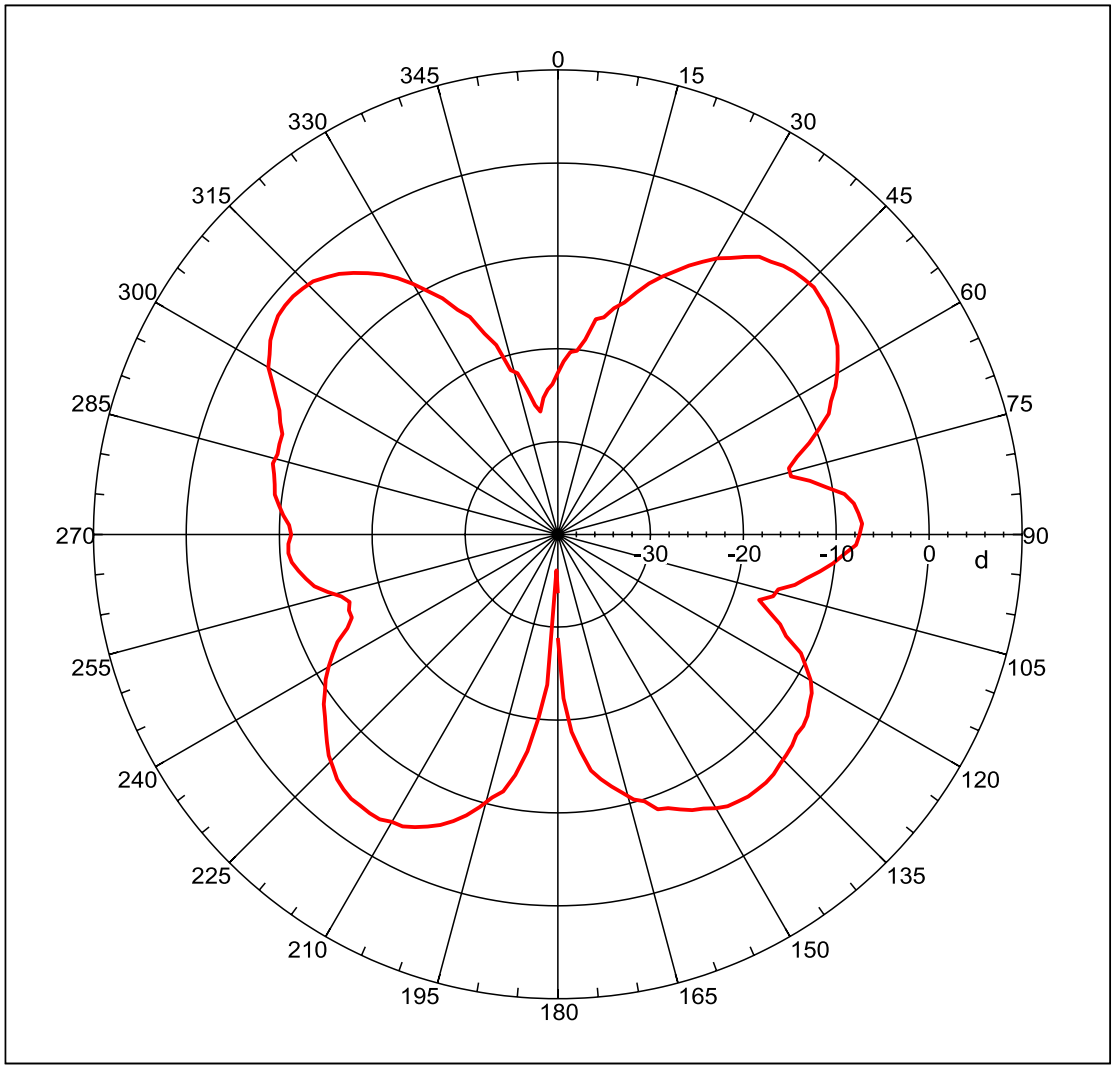


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -3.59616 dBi
Max far-field (global) = -51.12827 dB, Max far-field (plot) = -51.12836 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 47.99999 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -9.139 dB
-3. dB beam width: 76.94 deg -6. dB beam width: 93.37 deg -10. dB beam width: 109.17 deg
Left Sidelobe: -0.28 dB at -47.263 deg Right Sidelobe: -0.09 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
---- --------- ------- --------- ---
2.170 GHz Azimuth Elevation Single-pol

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(13) E Plane 2400MHz: -1.66049dBi

Far-field amplitude of M80I-B+10M-E.nsi

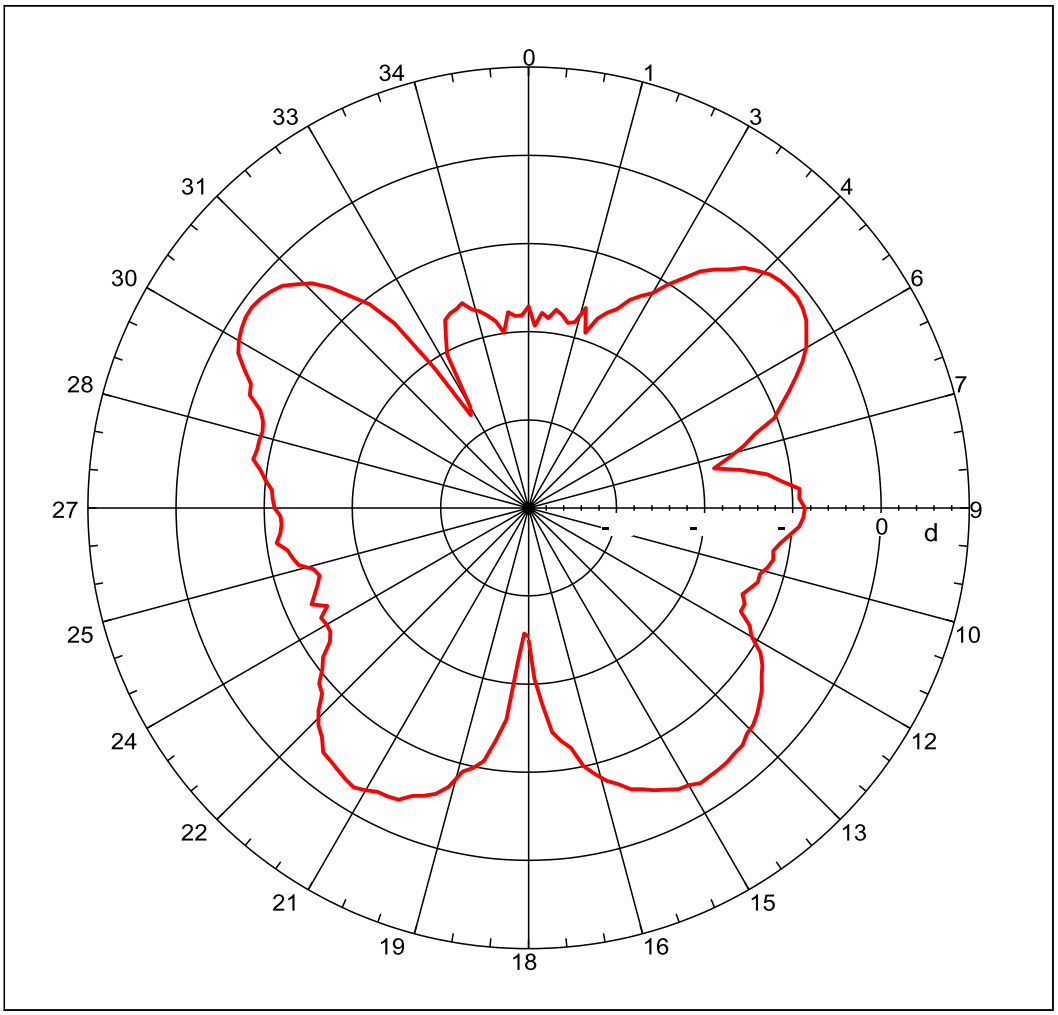


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -1.66049 dBi
Max far-field (global) = -50.66812 dB, Max far-field (plot) = -50.66819 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -48.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.414 dB
-3. dB beam width: 24.04 deg -6. dB beam width: 36.04 deg -10. dB beam width: 71.76 deg
Left Sidelobe: -2.22 dB at -141.788 deg Right Sidelobe: -0.01 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
---- --------- ------- --------- ---
2.400 GHz Azimuth Elevation Single-pol

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(14) E Plane 2500MHz: -1.24901dBi

Far-field amplitude of M80I-B+10M-E.nsi

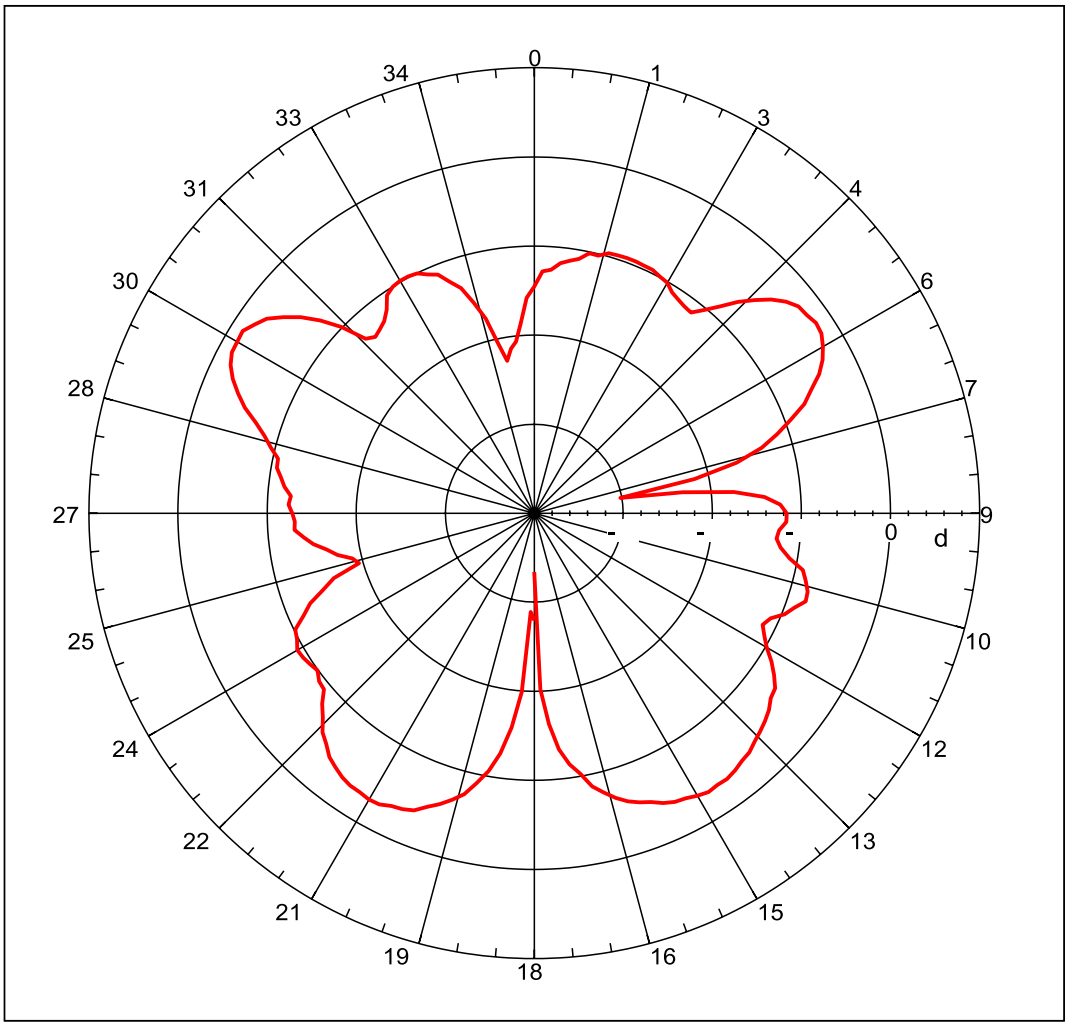


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -1.24901 dBi
Max far-field (global) = -51.385 dB, Max far-field (plot) = -51.38508 dB Normalization: Reference, Network offset = 0.000 dB Hpeak at: -54.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\M8 0I-B+10M\M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.491 dB
-3. dB beam width: 19.61 deg -6. dB beam width: 28.47 deg -10. dB beam width: 52.79 deg
Left Sidelobe: -11.80 dB at -113.631 deg Right Sidelobe: -14.37 dB at -17.095 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
---- --------- ------- --------- ---
2.500 GHz Azimuth Elevation Single-pol

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(15) E Plane 2600MHz: -1.42108dBi

Far-field amplitude of M80I-B+10M-E.nsi

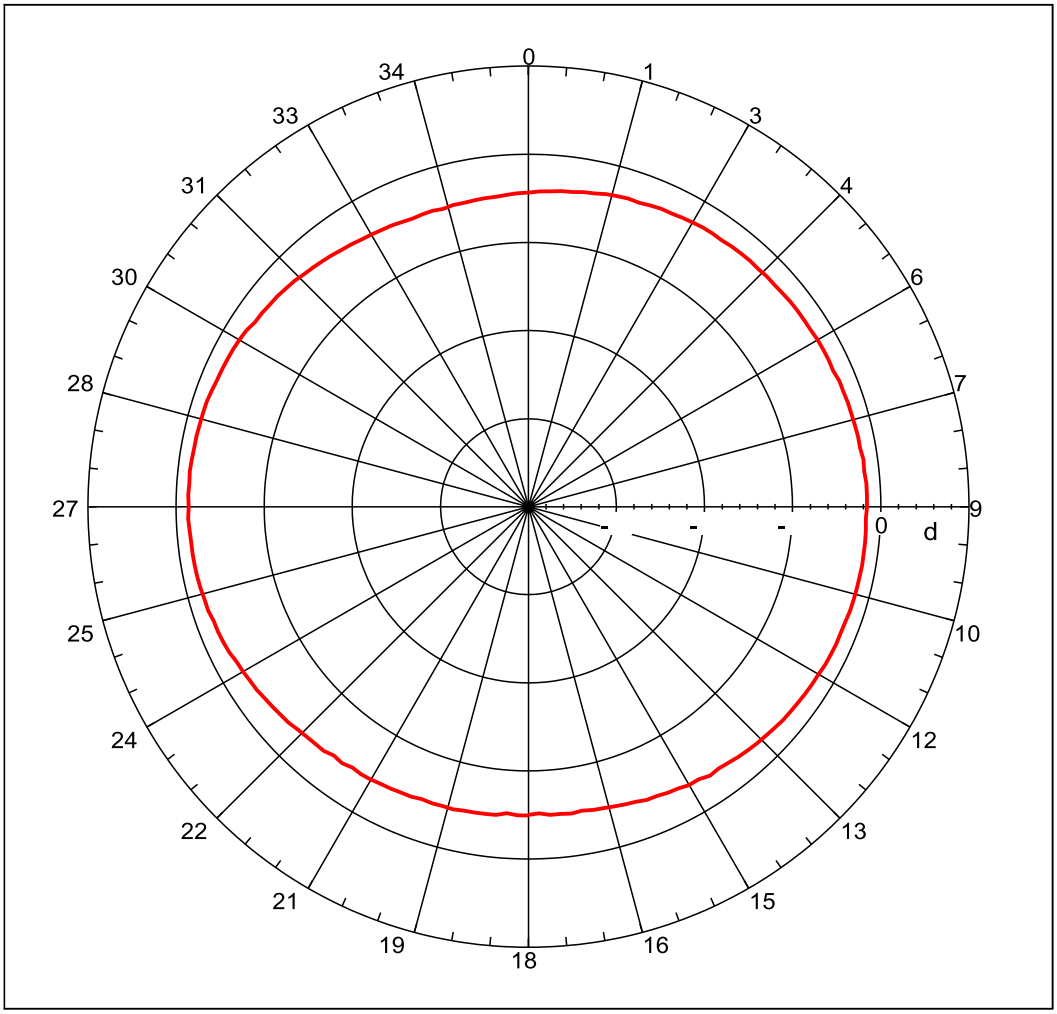


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -1.42108 dBi
Max far-field (global) = -51.73787 dB, Max far-field (plot) =-51.73811 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -58.00001 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-E
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\M8 0I-B+10M\M80I-B+10M-E.nsi
Measurement date/time: 4/8/2016 4:18:04 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.353 dB
-3. dB beam width: 16.70 deg -6. dB beam width: 24.25 deg -10. dB beam width: 37.72 deg
Left Sidelobe: -7.87 dB at -119.665 deg Right Sidelobe: -8.50 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
---- --------- ------- --------- ---
2.600 GHz Azimuth Elevation Single-pol

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(16) H Plane 806MHz: -1.35776dBi

Far-field amplitude of M80I-B+10M-H.nsi

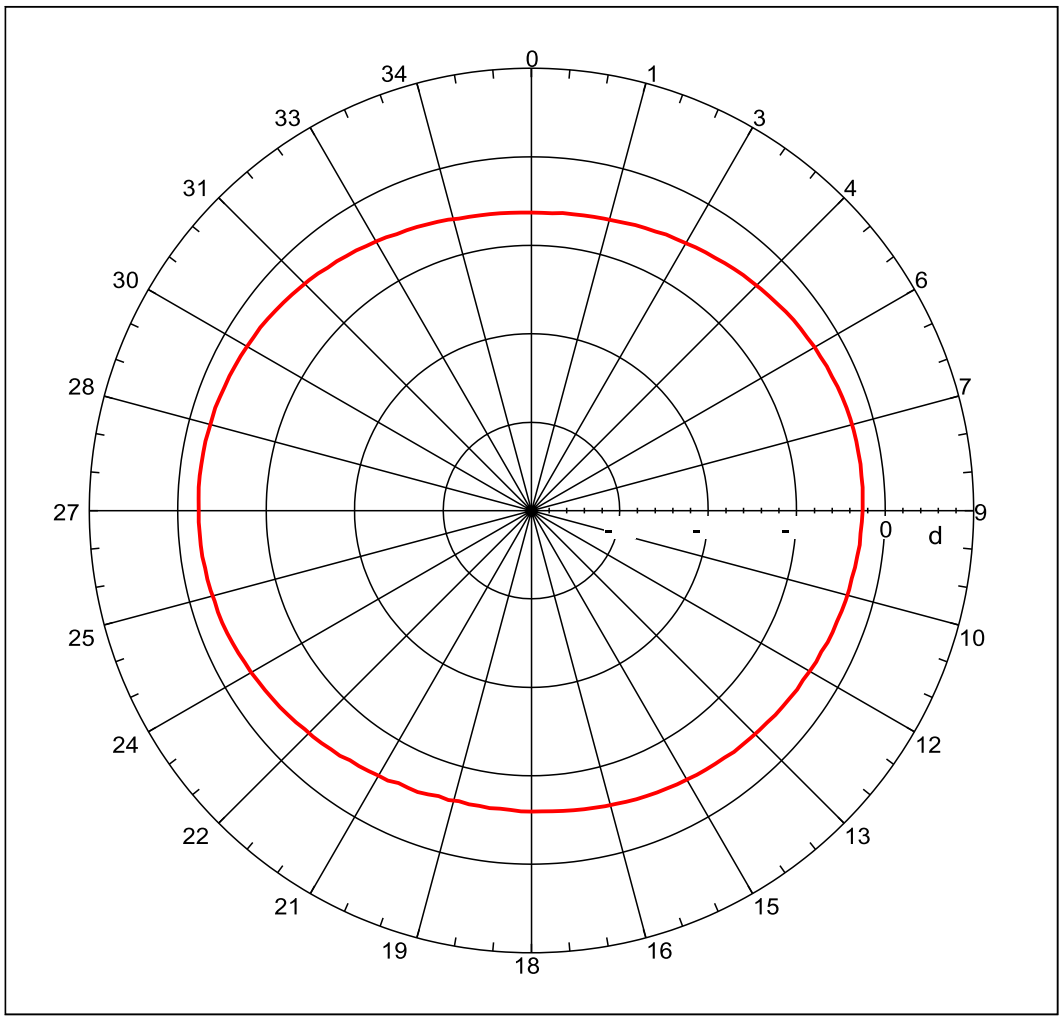


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -1.35776 dBi
Max far-field (global) = -44.10603 dB, Max far-field (plot) =-44.10608 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -92.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\M8 0I-B+10M\M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -2.941 dB
-3. dB beam width: 122.98 deg -6. dB beam width: Not Found -10. dB beam width: Not Found Left Sidelobe: Not Found
Right Sidelobe: -1.89 dB at 19.106 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
---- --------- ------- --------- ---
0.806 GHz Azimuth Elevation Single-pol

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(17) H Plane 824MHz: -2.30515dBi

Far-field amplitude of M80I-B+10M-H.nsi

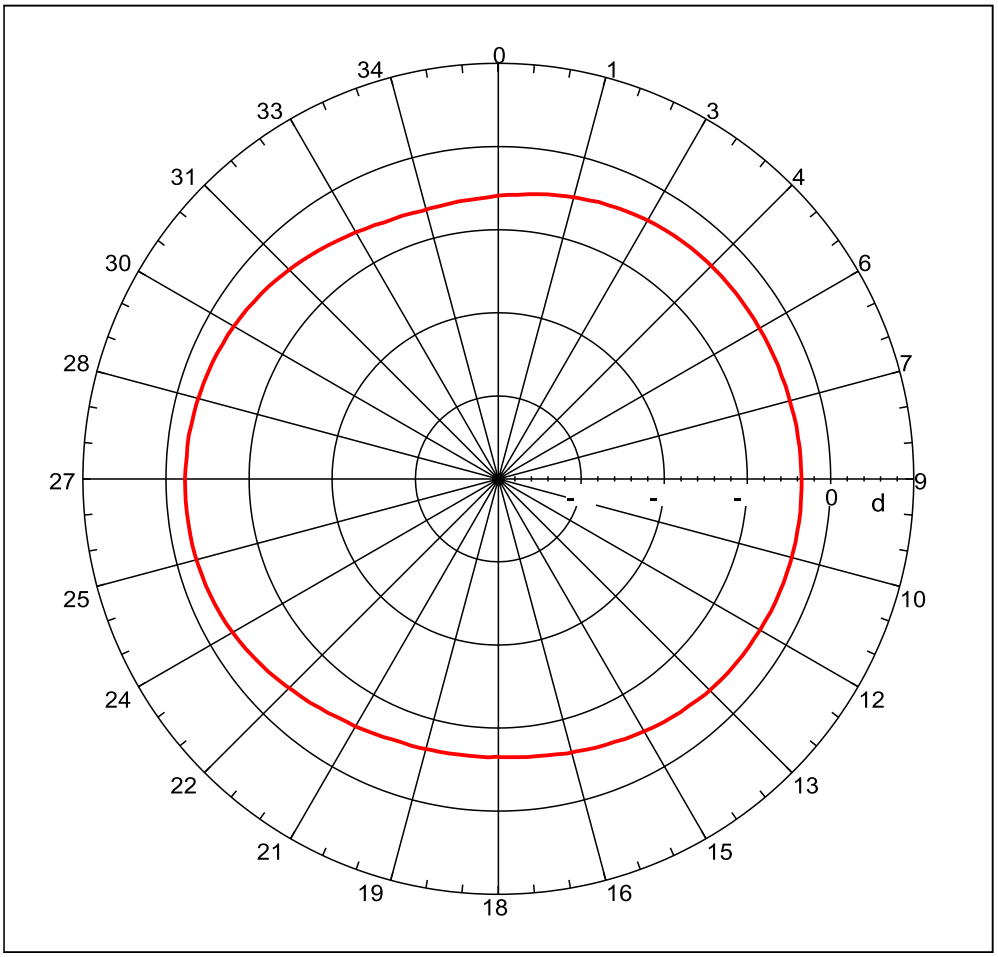


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.30515 dBi
Max far-field (global) = -44.45222 dB, Max far-field (plot) =-44.45223 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -84.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\M8 0I-B+10M\M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -4.101 dB
-3. dB beam width: 124.76 deg -6. dB beam width: Not Found -10. dB beam width: Not Found Left Sidelobe: Not Found
Right Sidelobe: -0.14 dB at 77.430 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
---- --------- ------- --------- ---
0.824 GHz Azimuth Elevation Single-pol

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(18) H Plane 850MHz: -2.30318dBi

Far-field amplitude of M80I-B+10M-H.nsi

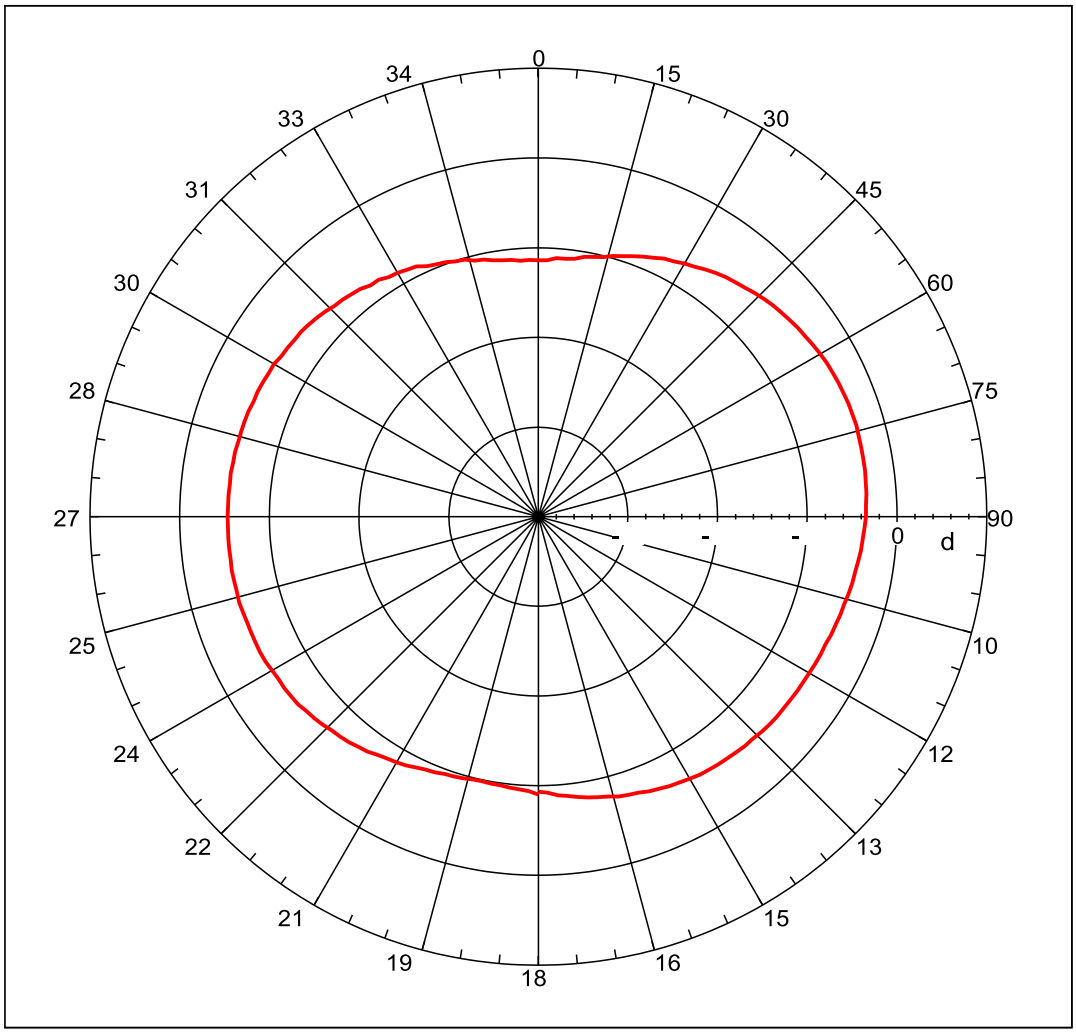


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.30318 dBi
Max far-field (global) = -43.83625 dB, Max far-field (plot) = -43.83625 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -94.00001 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -4.271 dB
-3. dB beam width: 110.37 deg -6. dB beam width: Not Found -10. dB beam width: Not Found Left Sidelobe: Not Found
Right Sidelobe: -1.42 dB at 51.285 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
---- --------- ------- --------- ---
0.850 GHz Azimuth Elevation Single-pol

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(19) H Plane 900MHz: -3.12105dBi

Far-field amplitude of M80I-B+10M-H.nsi

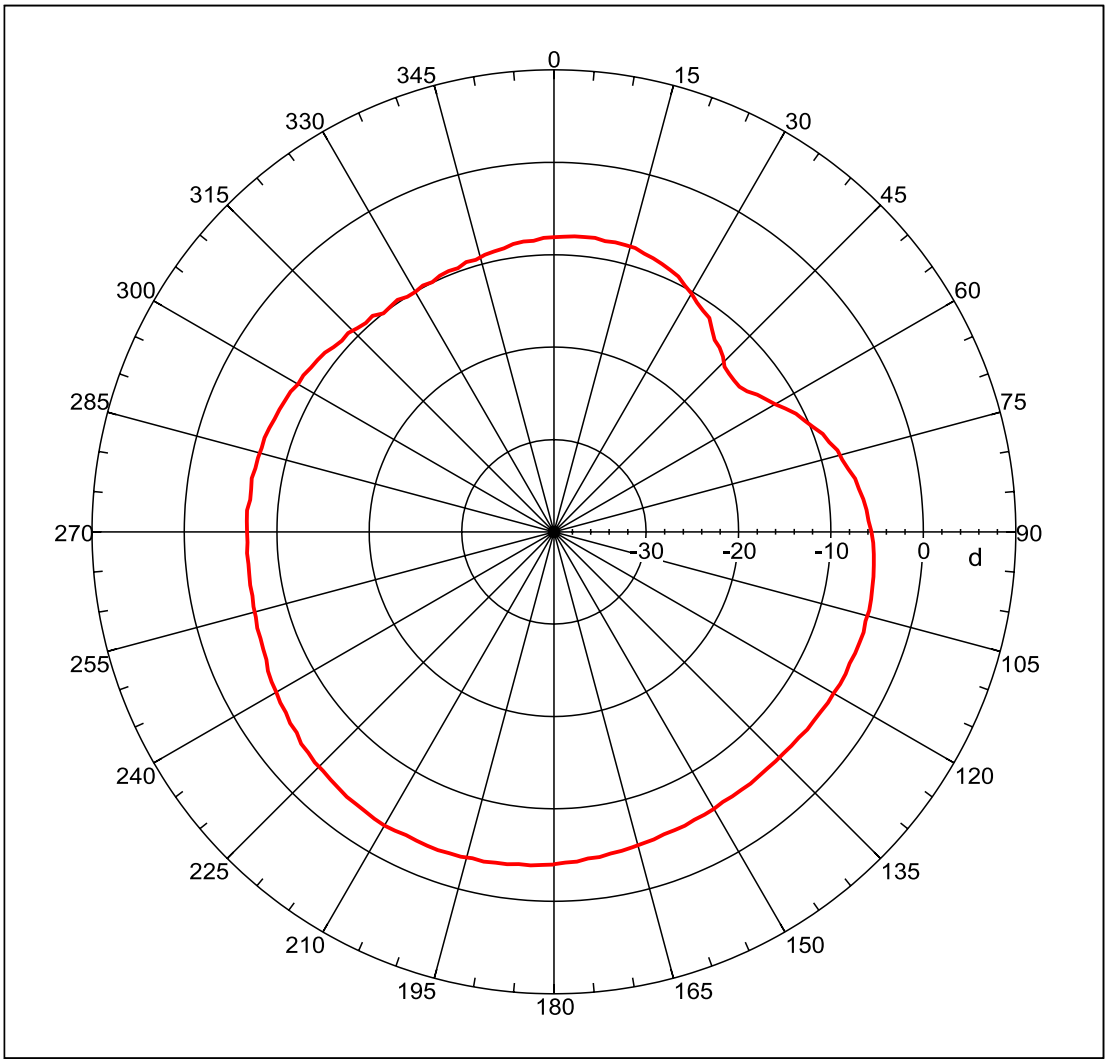


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -3.12105 dBi
Max far-field (global) = -44.68073 dB, Max far-field (plot) = -44.68076 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 73.99999 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -6.455 dB
-3. dB beam width: 111.20 deg -6. dB beam width: Not Found -10. dB beam width: Not Found
Left Sidelobe: -2.31 dB at -77.430 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
---- --------- ------- --------- ---
0.900 GHz Azimuth Elevation Single-pol

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(20) H Plane 960MHz: -3.28144dBi

Far-field amplitude of M80I-B+10M-H.nsi

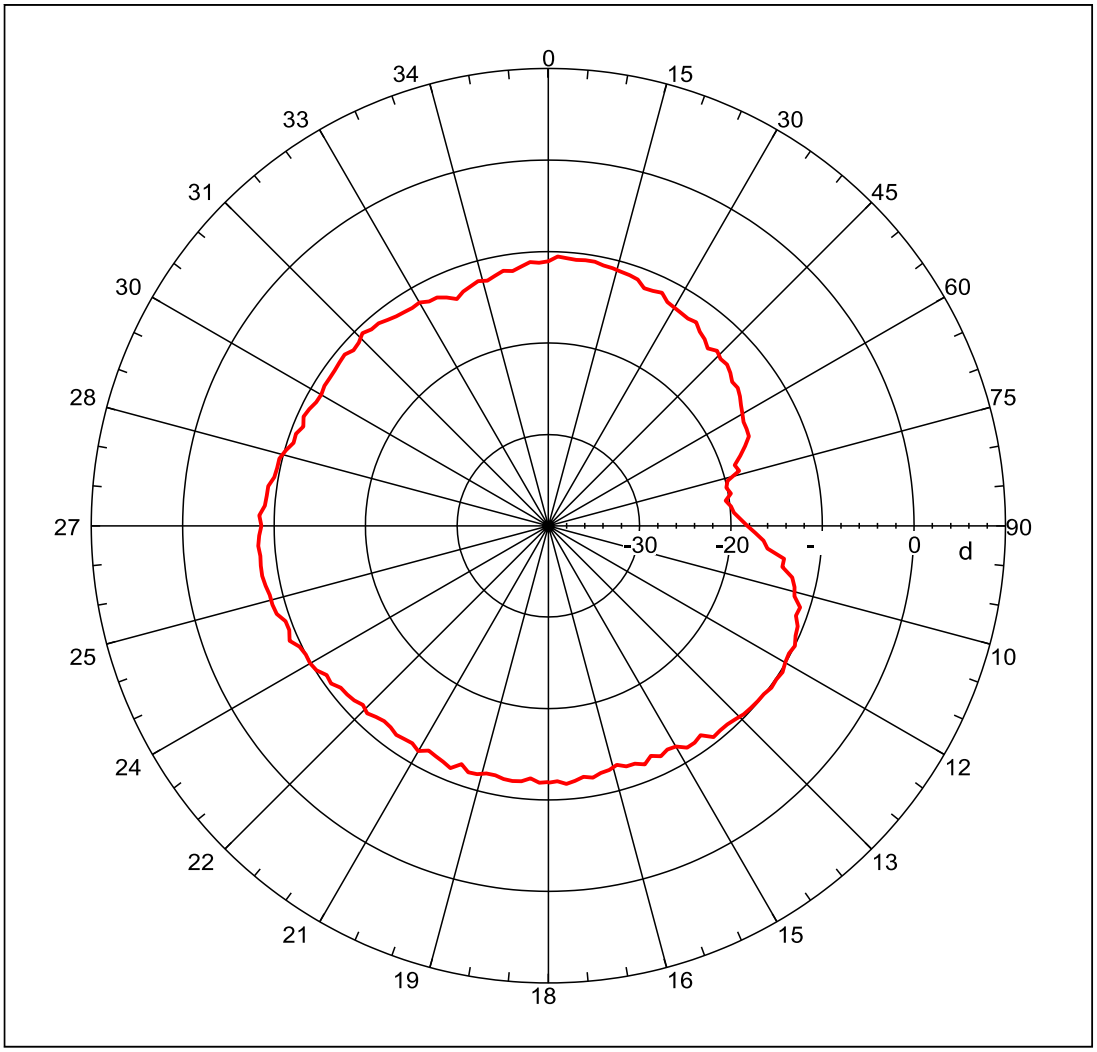


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -3.28144 dBi
Max far-field (global) = -45.91111 dB, Max far-field (plot) = -45.91117 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -150.00001 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -6.644 dB
-3. dB beam width: Not Found -6. dB beam width: Not Found -10. dB beam width: Not Found Left Sidelobe: Not Found Right Sidelobe: -5.15 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 15
Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
0.960 GHz Azimuth Elevation Single-pol

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(21) H Plane 1427.9MHz: -8.19331dBi

Far-field amplitude of M80I-B+10M-H.nsi

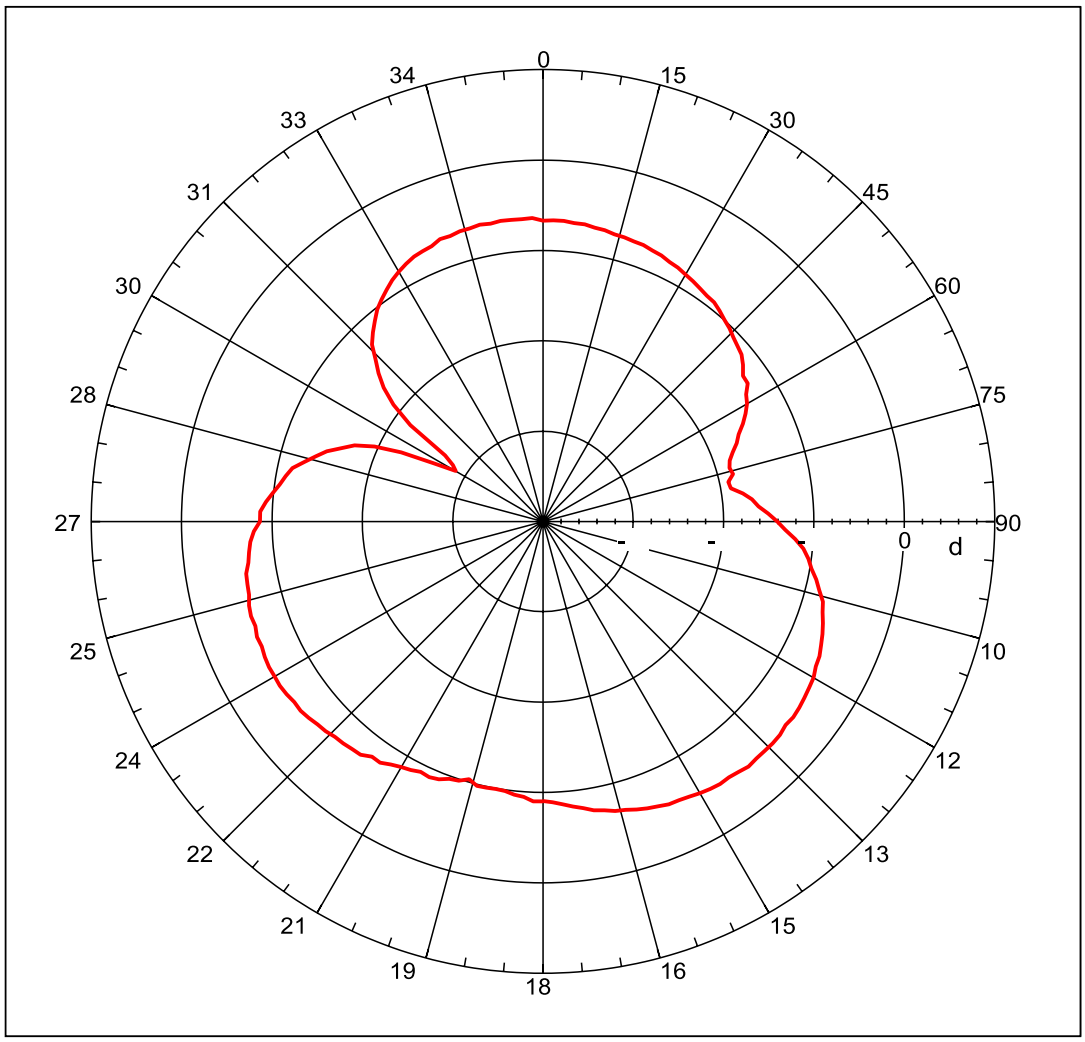


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -8.19331 dBi
Max far-field (global) = -53.16578 dB, Max far-field (plot) =-53.16586 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -94.00001 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -11.721 dB
-3. dB beam width: 65.96 deg -6. dB beam width: Not Found -10. dB beam width: Not Found Left Sidelobe: Not Found
Right Sidelobe: -3.99 dB at -15.084 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
---- --------- ------- --------- ---
1.4279 GHz Azimuth Elevation Single-pol

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(22) H Plane 1475.9MHz: -4.60305dBi

Far-field amplitude of M80I-B+10M-H.nsi

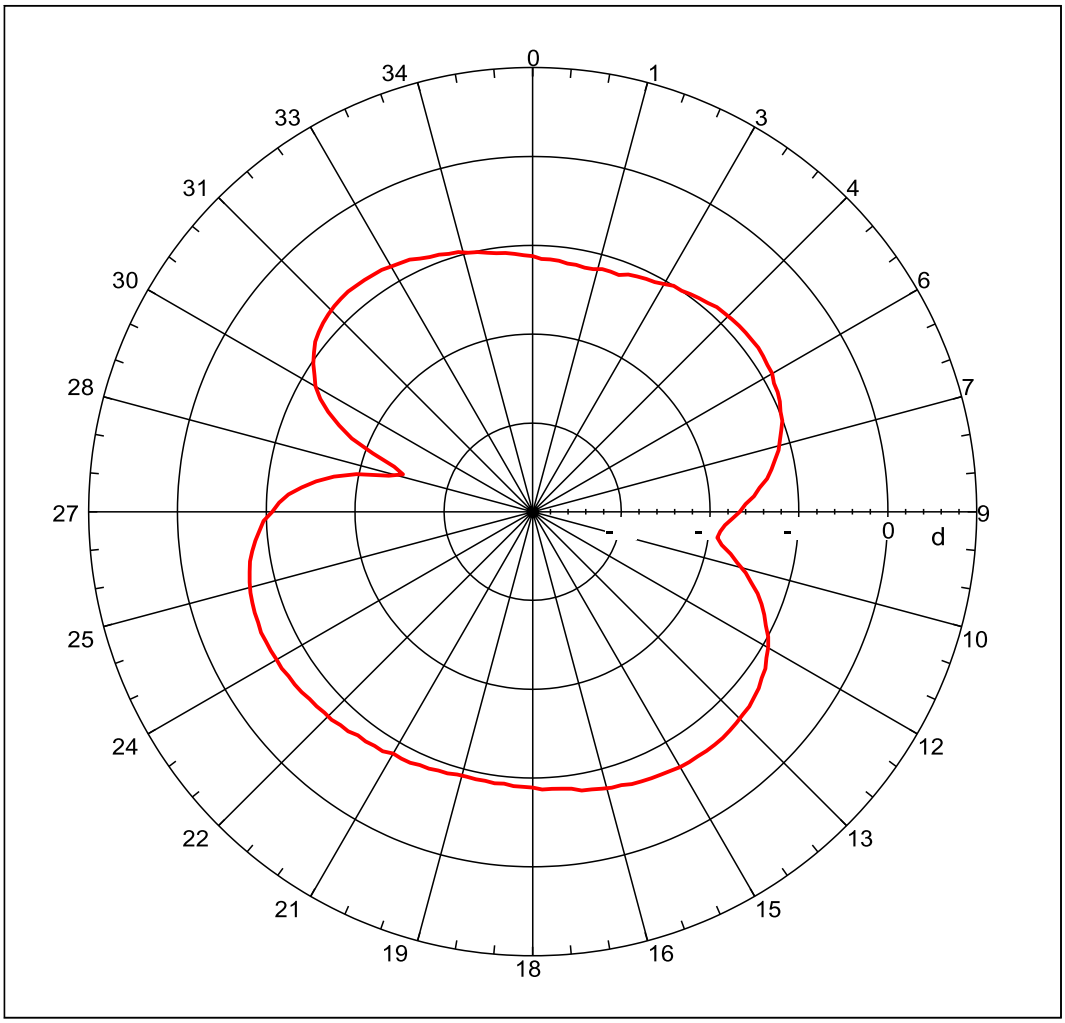


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -4.60305 dBi
Max far-field (global) = -49.63643 dB, Max far-field (plot) =-49.63651 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 140.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.685 dB
-3. dB beam width: 63.55 deg -6. dB beam width: Not Found -10. dB beam width: Not Found
Left Sidelobe: -2.21 dB at 9.050 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
---- --------- ------- --------- ---
1.4759 GHz Azimuth Elevation Single-pol

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(23) H Plane 1510.9MHz: -6.54112dBi

Far-field amplitude of M80I-B+10M-H.nsi

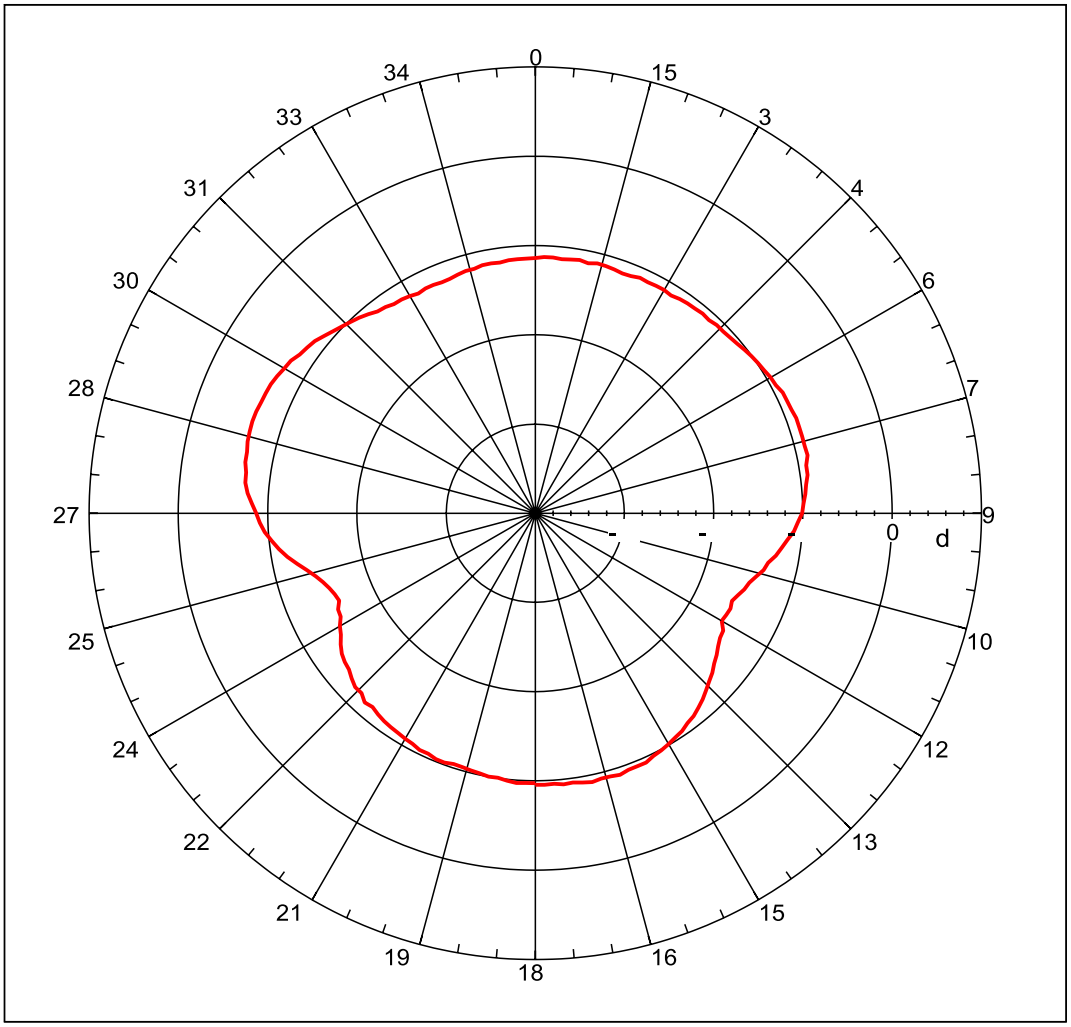


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -6.54112 dBi
Max far-field (global) = -51.31027 dB, Max far-field (plot) = -51.31036 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -114.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -9.609 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: -1.14 dB at -39.218 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
---- --------- ------- --------- ---
1.5109 GHz Azimuth Elevation Single-pol

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(24) H Plane 1710MHz: -6.7056dBi

Far-field amplitude of M80I-B+10M-H.nsi

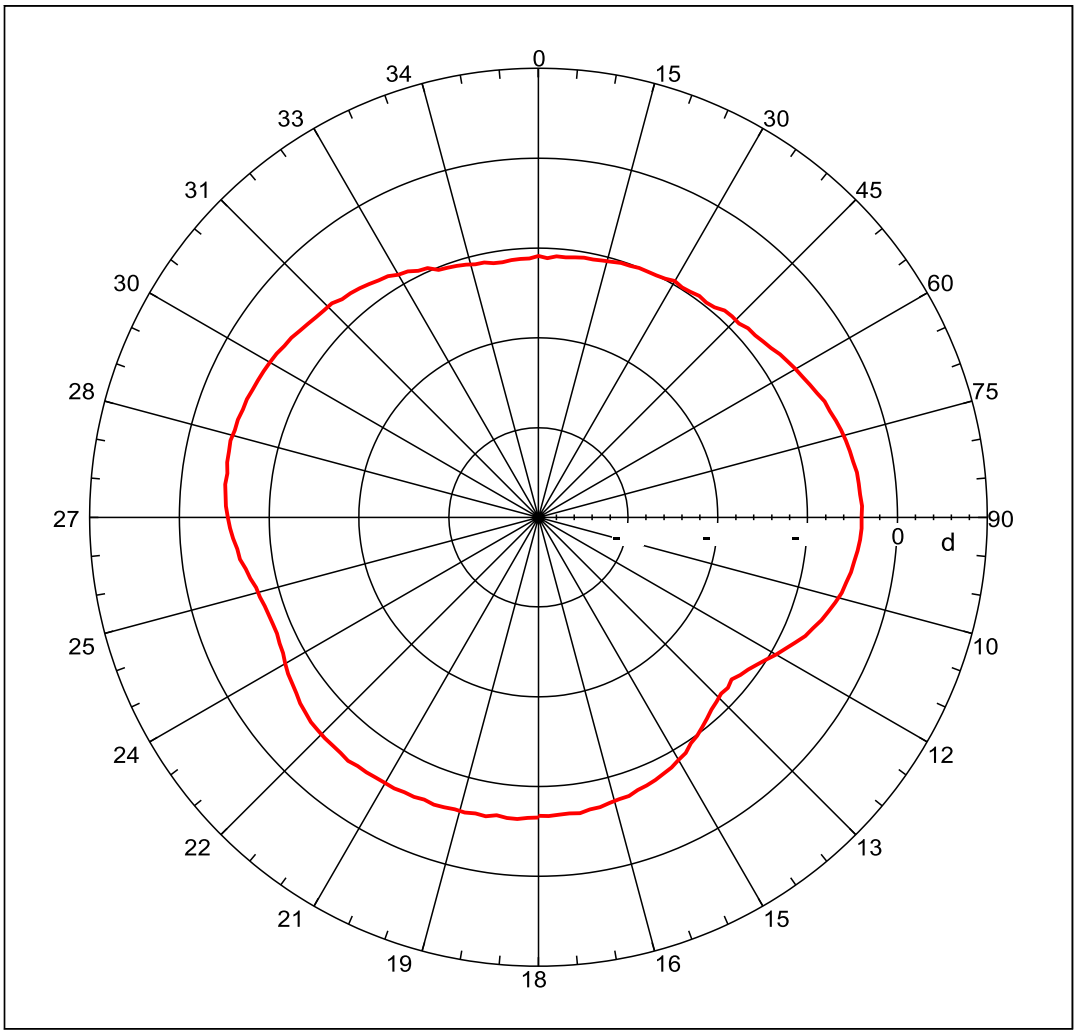


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -6.7056 dBi
Max far-field (global) = -51.89819 dB, Max far-field (plot) = -51.8982 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -72.00001 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -10.706 dB
-3. dB beam width: 47.36 deg -6. dB beam width: 203.24 deg -10. dB beam width: Not Found
Left Sidelobe: -5.28 dB at -133.743 deg Right Sidelobe: -4.42 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
---- --------- ------- --------- ---
1.710 GHz Azimuth Elevation Single-pol

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(25) H Plane 1800MHz: -3.93842dBi

Far-field amplitude of M80I-B+10M-H.nsi

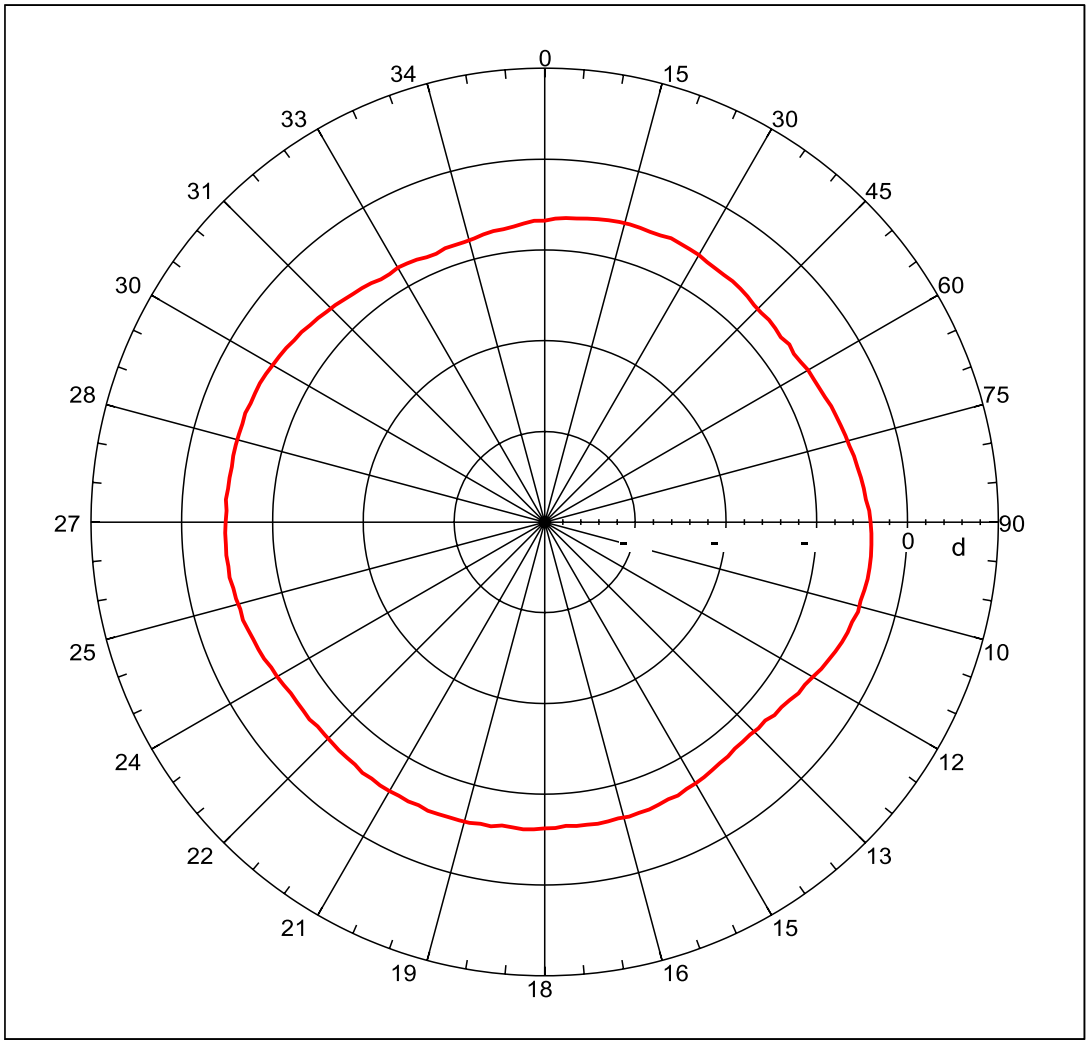


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -3.93842 dBi
Max far-field (global) = -50.76046 dB, Max far-field (plot) = -50.76052 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 87.99999 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis:
Avg value: -7.251 dB
-3. dB beam width: 51.83 deg -6. dB beam width: 94.42 deg -10. dB beam width: Not Found
Left Sidelobe: -1.03 dB at -67.374 deg Right Sidelobe: -2.77 dB at 173.967 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
---- --------- ------- --------- ---
1.800 GHz Azimuth Elevation Single-pol

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(26) H Plane 1900MHz: -3.85231dBi

Far-field amplitude of M80I-B+10M-H.nsi

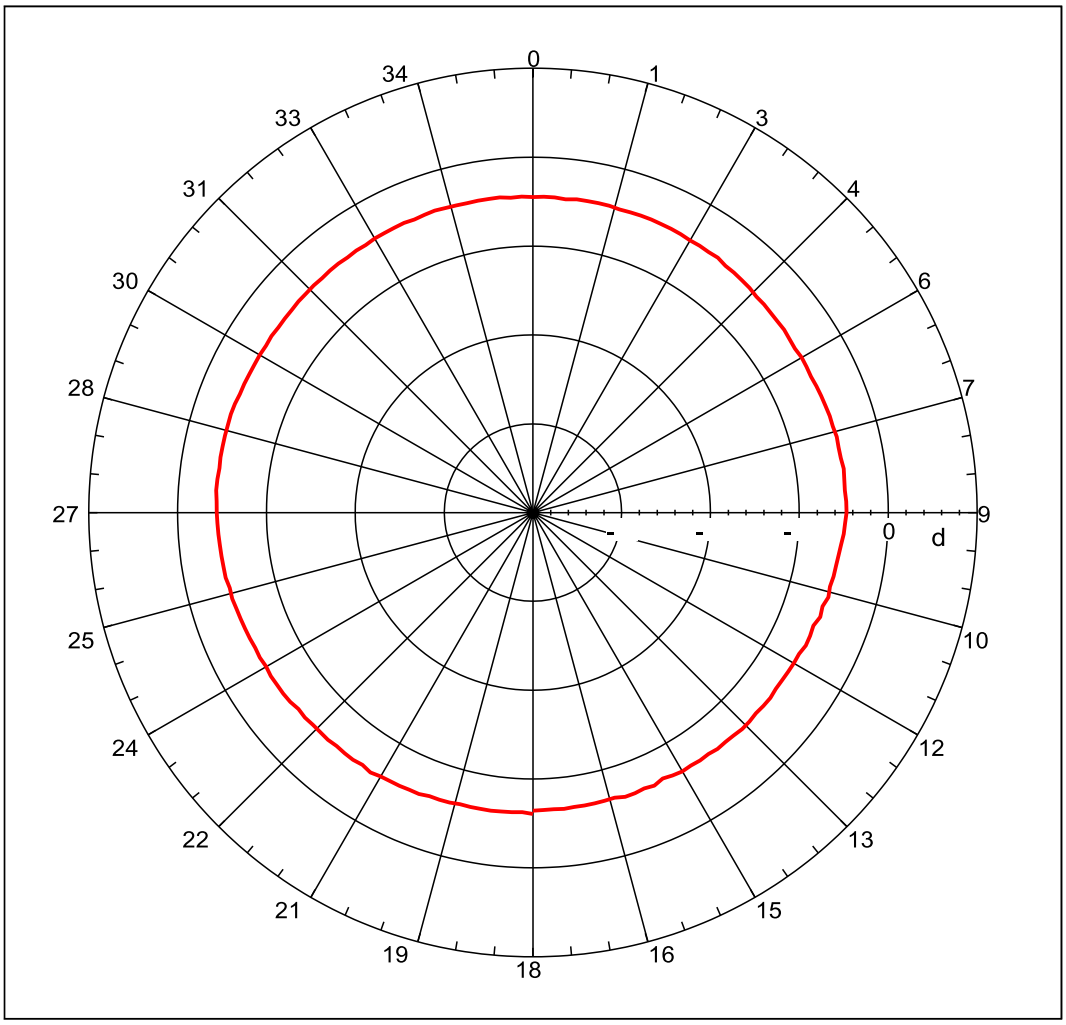


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -3.85231 dBi
Max far-field (global) = -50.88927 dB, Max far-field (plot) =-50.88928 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 97.99999 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -5.967 dB
-3. dB beam width: 72.00 deg -6. dB beam width: Not Found -10. dB beam width: Not Found
Left Sidelobe: -1.92 dB at 25.140 deg Right Sidelobe: -2.44 dB at 161.899 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
---- --------- ------- --------- ---
1.900 GHz Azimuth Elevation Single-pol

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(27) H Plane 2170MHz: -4.27346dBi

Far-field amplitude of M80I-B+10M-H.nsi

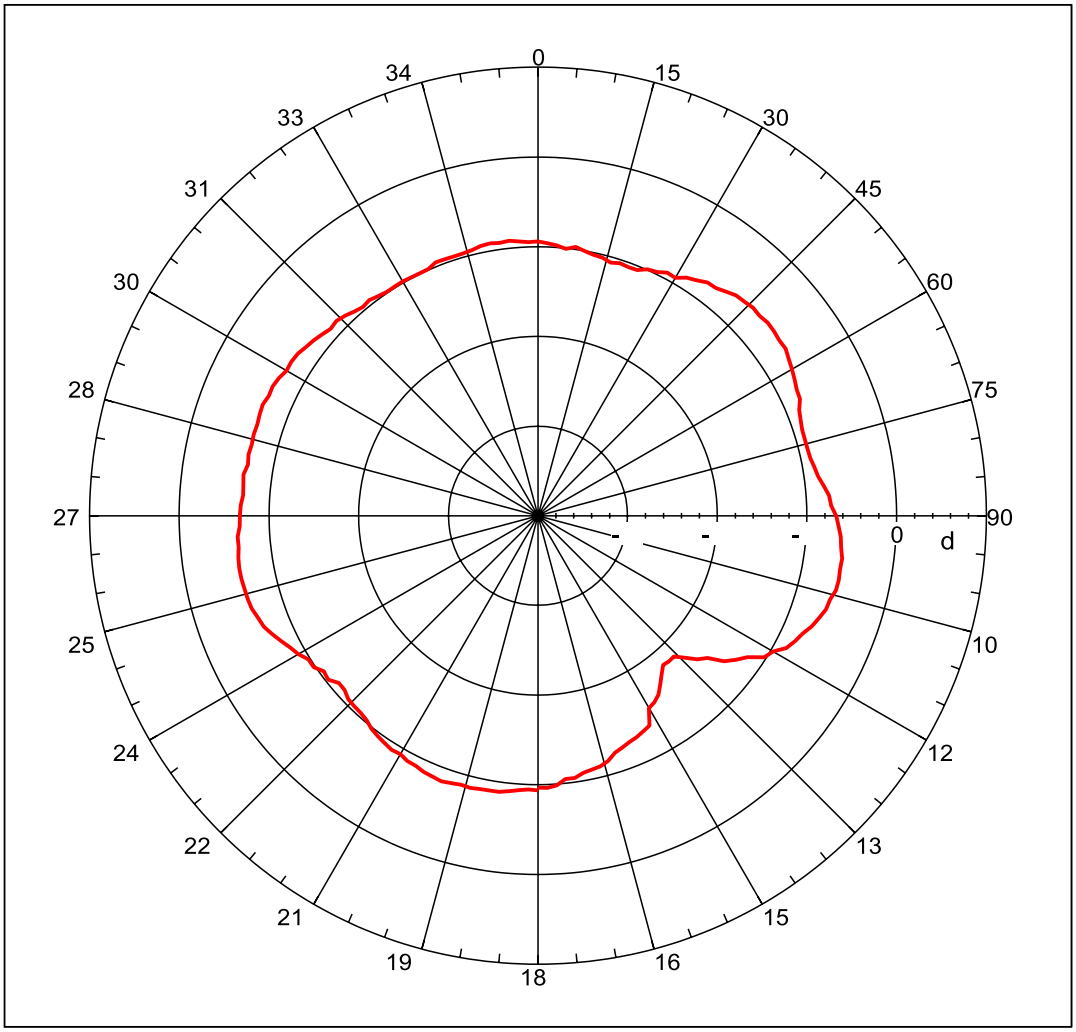


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -4.27346 dBi
Max far-field (global) = -51.80557 dB, Max far-field (plot) =-51.80558 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -72.00001 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -5.147 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
---- --------- ------- --------- ---
2.170 GHz Azimuth Elevation Single-pol

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(28) H Plane 2400MHz: -5.70222dBi

Far-field amplitude of M80I-B+10M-H.nsi

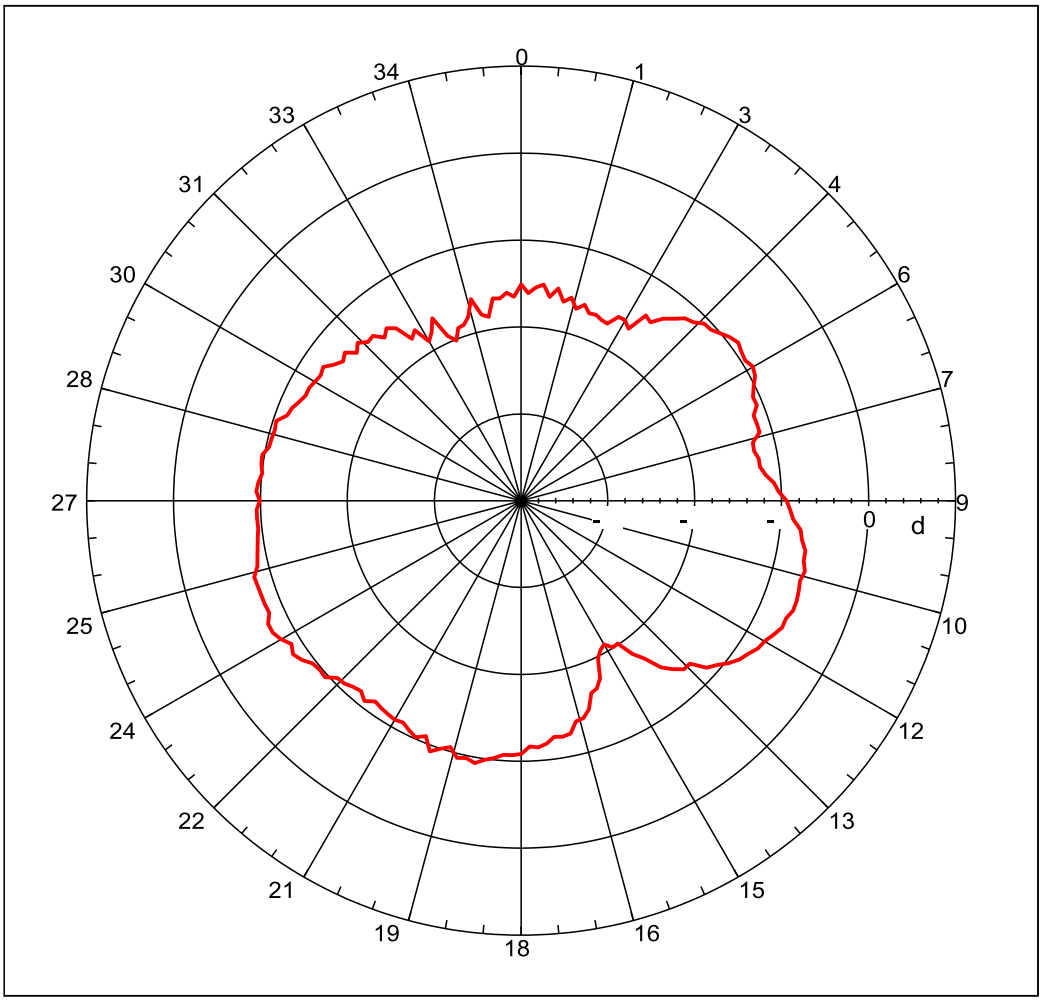


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -5.70222 dBi
Max far-field (global) = -54.70985 dB, Max far-field (plot) =-54.7099 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 102.000 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.898 dB
-3. dB beam width: 38.26 deg -6. dB beam width: Not Found -10. dB beam width: Not Found
Left Sidelobe: -0.99 dB at 57.318 deg Right Sidelobe: -4.79 dB at 173.967 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
---- --------- ------- --------- ---
2.400 GHz Azimuth Elevation Single-pol

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(29) H Plane 2500MHz: -6.22531dBi

Far-field amplitude of M80I-B+10M-H.nsi

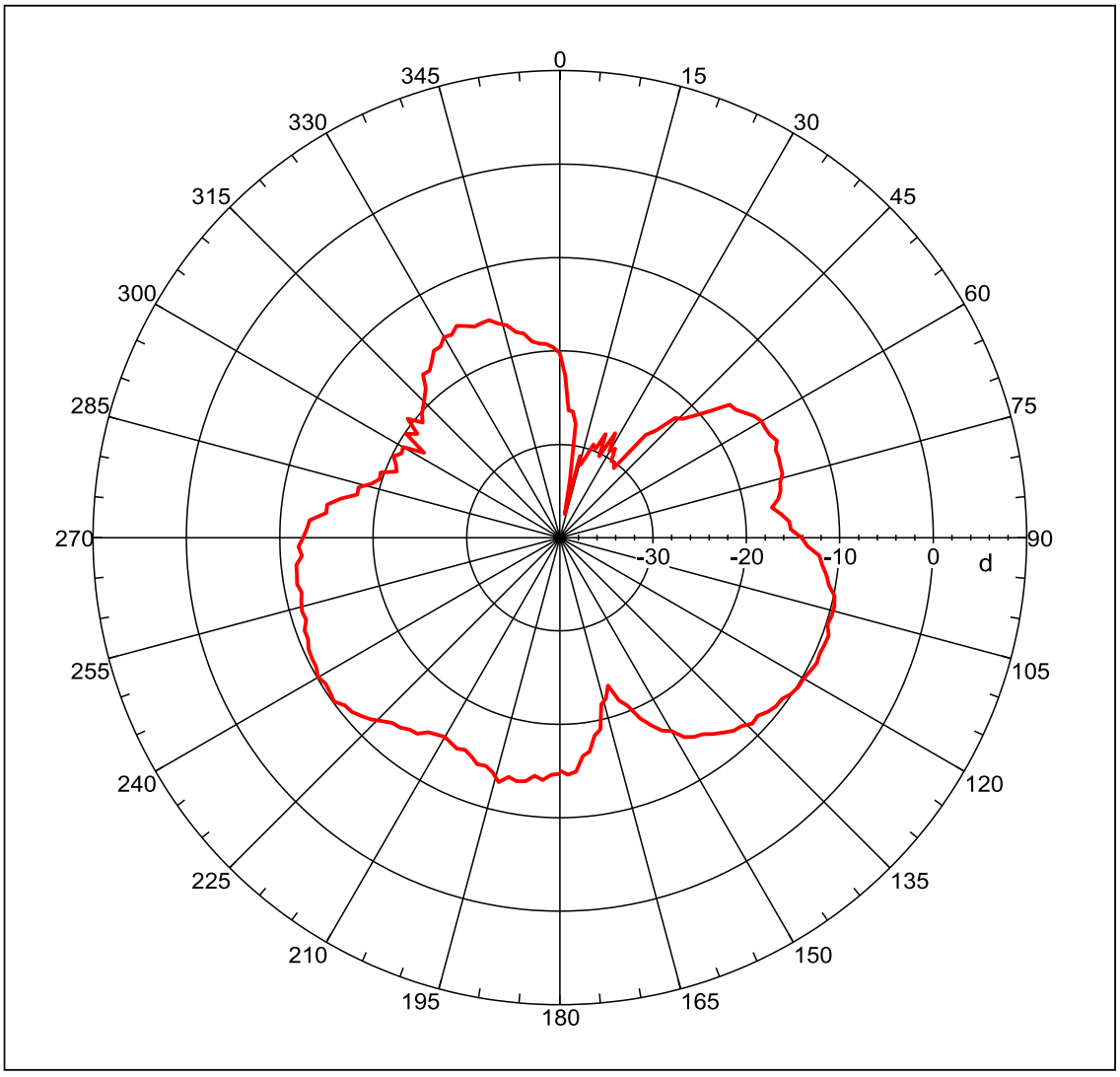


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -6.22531 dBi
Max far-field (global) = -56.3613 dB, Max far-field (plot) = -56.36131 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 111.99999 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -11.549 dB
-3. dB beam width: 36.03 deg -6. dB beam width: 51.39 deg -10. dB beam width: 109.50 deg
Left Sidelobe: -5.24 dB at 73.408 deg Right Sidelobe: -6.19 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 15
Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
2.500 GHz Azimuth Elevation Single-pol

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(30) H Plane 2600MHz: -9.35713dBi

Far-field amplitude of M80I-B+10M-H.nsi

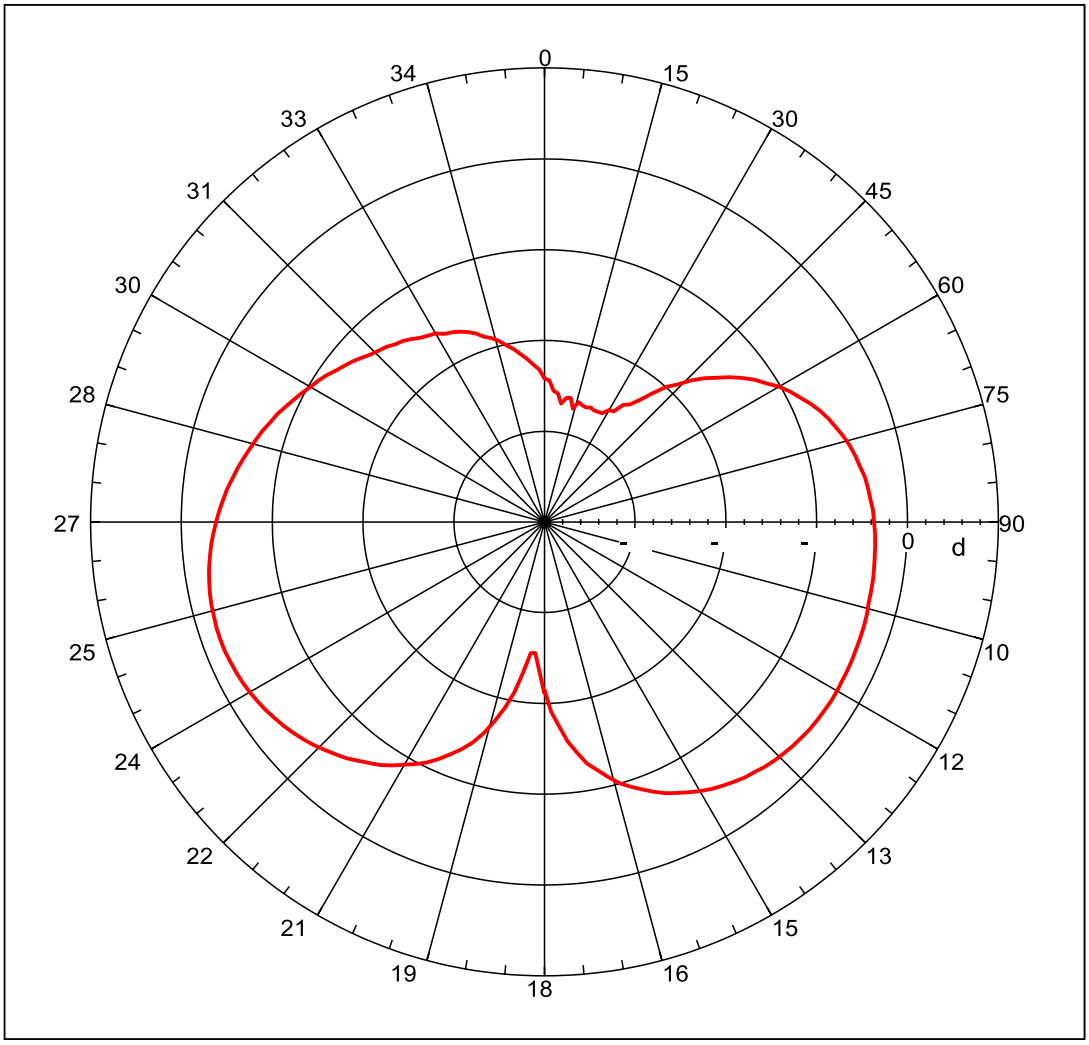


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -9.35713 dBi
Max far-field (global) = -59.67392 dB, Max far-field (plot) = -59.6742 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 109.99999 deg, Vpeak at: 0.000 deg
Plot centering: On M80I-B+10M-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥M8 0I-B+10M¥M80I-B+10M-H.nsi
Measurement date/time: 4/8/2016 4:38:39 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -15.195 dB
-3. dB beam width: 45.29 deg -6. dB beam width: 63.00 deg -10. dB beam width: 107.82 deg
Left Sidelobe: -5.18 dB at 67.374 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
---- --------- ------- --------- ---
2.600 GHz Azimuth Elevation Single-pol

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(31) E Plane 817.5MHz: -2.02929dBi

Far-field amplitude of 20170421-ANT-E.nsi

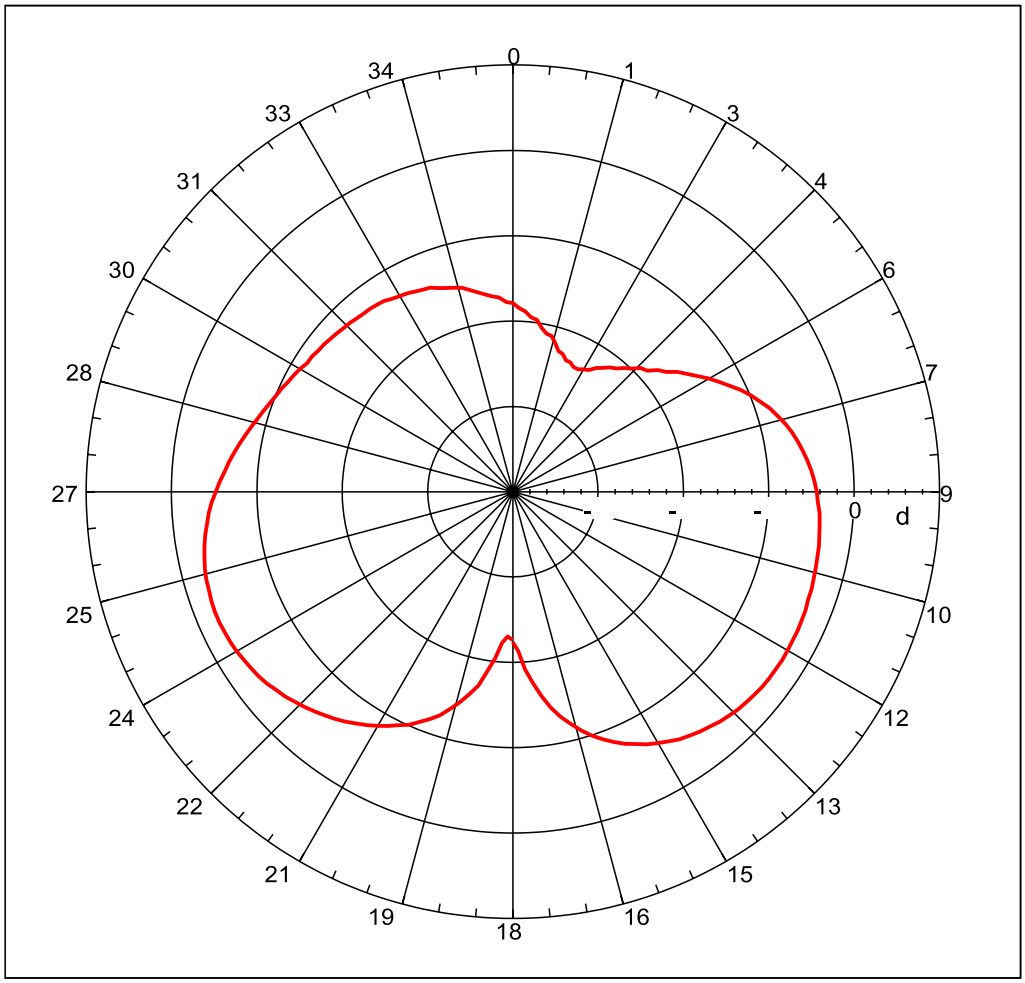


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.02929 dBi
Max far-field (global) = -44.46346 dB, Max far-field (plot) = -44.46347 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -110.00001 deg, Vpeak at: 0.000 deg
Plot centering: On 20170421-ANT-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-E.nsi
Measurement date/time: 4/21/2017 3:57:07 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.283 dB
-3. dB beam width: 52.45 deg -6. dB beam width: 78.16 deg -10. dB beam width: 105.70 deg Left Sidelobe: Not Found
Right Sidelobe: -0.75 dB at 123.687 deg Far-field display setup Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181 Start= -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
Elevation (deg) Center = 0.000 deg, #pts = 1
Selected beam(s) 1 of 11
Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
0.8175 GHz Azimuth Elevation Single-pol

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(32) E Plane 822.5MHz: -2.38612dBi

Far-field amplitude of 20170421-ANT-E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.38612 dBi

Max far-field (global) = -44.57329 dB, Max far-field (plot) = -44.57329 dB

Normalization: Reference, Network offset = 0.000 dB Hpeak at: -114.000 deg, Vpeak at: 0.000 deg

Plot centering: On 20170421-ANT-E

NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-E.nsi

Measurement date/time: 4/21/2017 3:57:07 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.526 dB

-3. dB beam width: 49.22 deg -6. dB beam width: 74.25 deg -10. dB beam width: 115.83 deg Left Sidelobe: Not Found Right Sidelobe: -0.39 dB at 123.687 deg Far-field display setup Azimuth (deg)

Span = 360.00001 deg, Center = 0.000 deg, #pts = 181 Start= -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg

Elevation (deg) Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 11 Beam Frequency Azimuth Elevation Pol

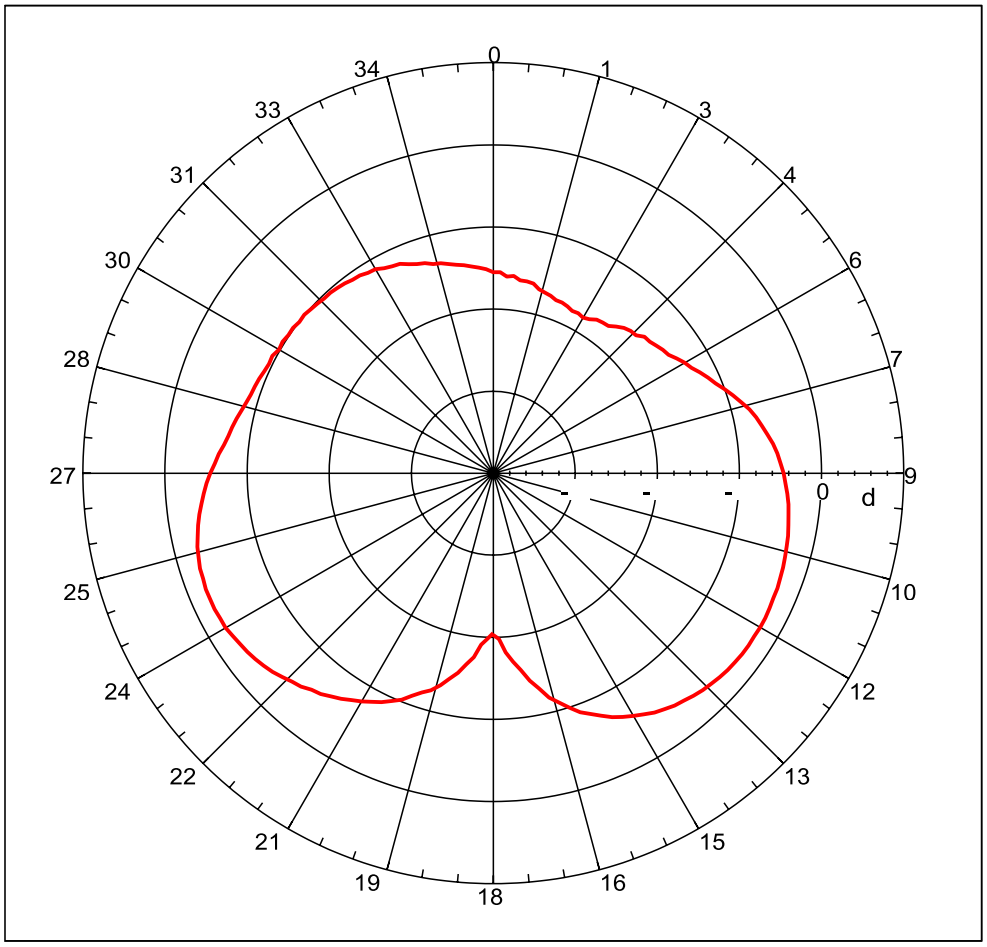
---- --------- ------- --------- ---

0.8225 GHz Azimuth Elevation Single-pol

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(33) E Plane 827.5MHz: -2.24692dBi

Far-field amplitude of 20170421-ANT-E.nsi

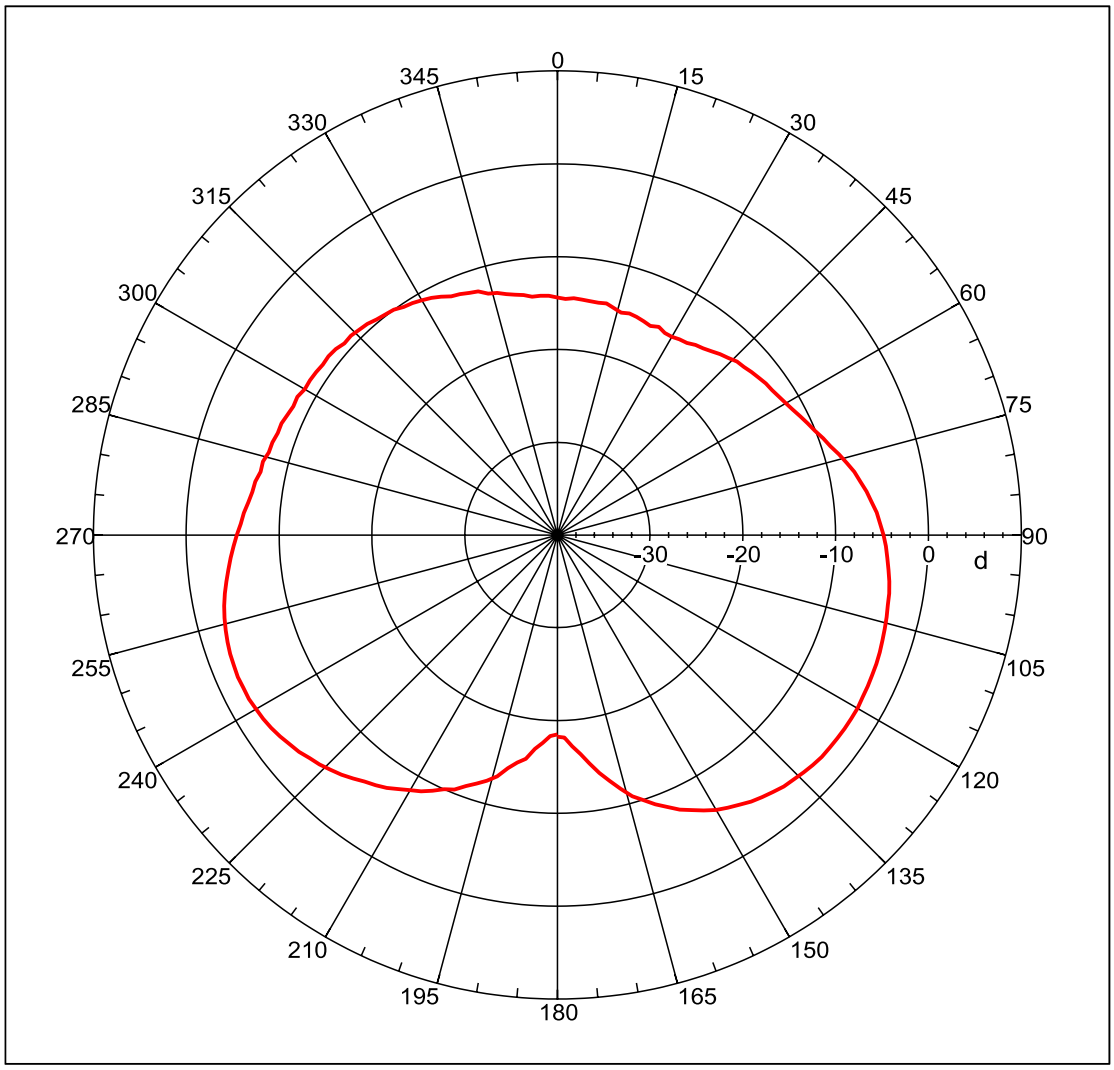


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.24692 dBi
Max far-field (global) = -44.35209 dB, Max far-field (plot) = -44.3521 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -116.000 deg, Vpeak at: 0.000 deg
Plot centering: On 20170421-ANT-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-E.nsi
Measurement date/time: 4/21/2017 3:57:07 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.012 dB
-3. dB beam width: 47.81 deg -6. dB beam width: 74.65 deg -10. dB beam width: 140.57 deg Left Sidelobe: Not Found
Right Sidelobe: -0.40 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 11 Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
0.8275 GHz Azimuth Elevation Single-pol

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(34) E Plane 832.5MHz: -2.33716dBi

Far-field amplitude of 20170421-ANT-E.nsi

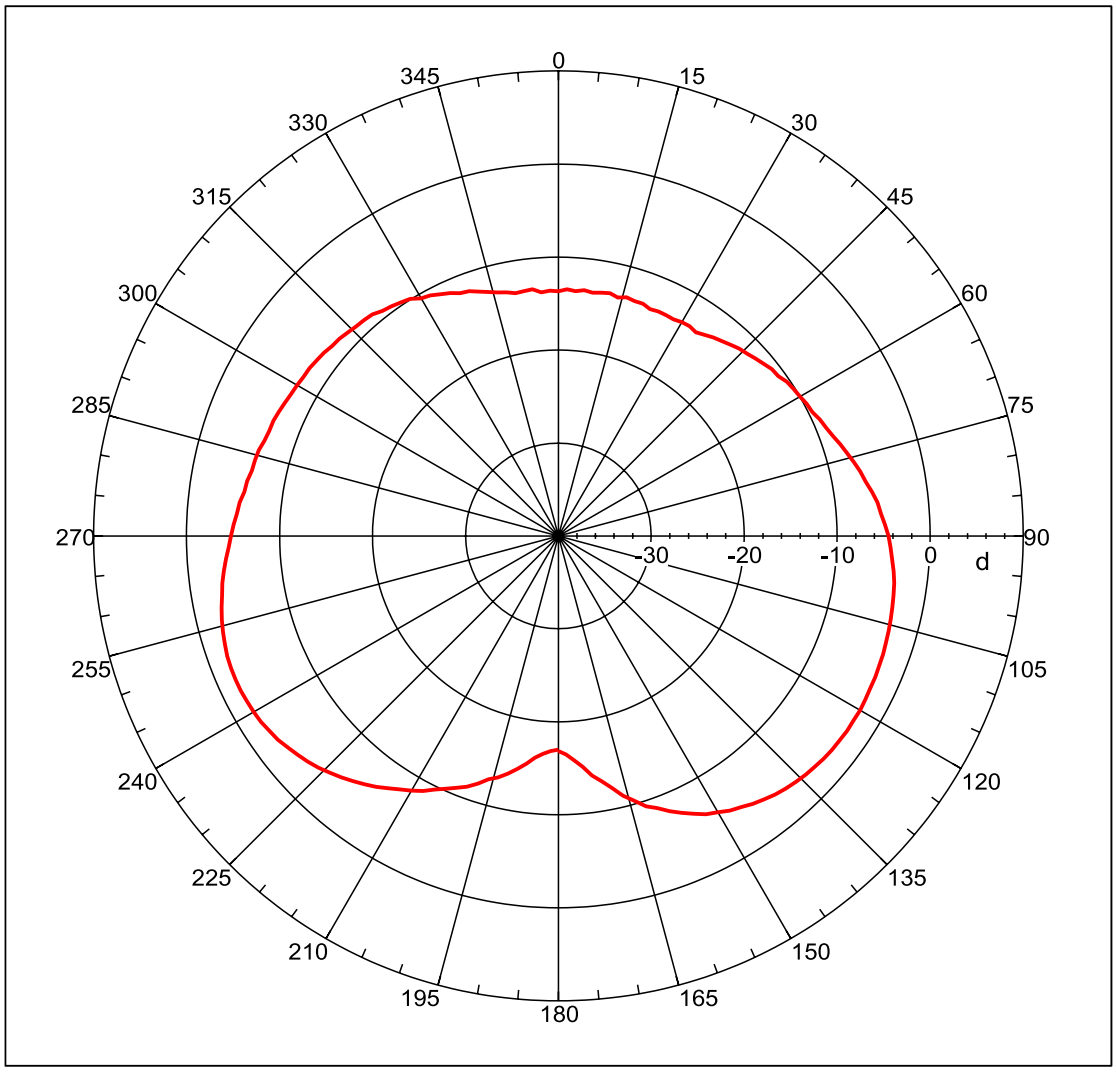


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.33716 dBi
Max far-field (global) = -44.32533 dB, Max far-field (plot) = -44.32537 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -114.000 deg, Vpeak at: 0.000 deg
Plot centering: On 20170421-ANT-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-E.nsi
Measurement date/time: 4/21/2017 3:57:07 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -7.743 dB
-3. dB beam width: 47.93 deg -6. dB beam width: 86.41 deg -10. dB beam width: 145.35 deg Left Sidelobe: Not Found
Right Sidelobe: -0.32 dB at 123.687 deg Far-field display setup Azimuth (deg)
Span = 360.00001 deg, Center = 0.000 deg, #pts = 181 Start= -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
Elevation (deg) Center = 0.000 deg, #pts = 1
Selected beam(s) 1 of 11
Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
0.8325 GHz Azimuth Elevation Single-pol

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(35) E Plane 837.5MHz: -2.00413dBi

Far-field amplitude of 20170421-ANT-E.nsi

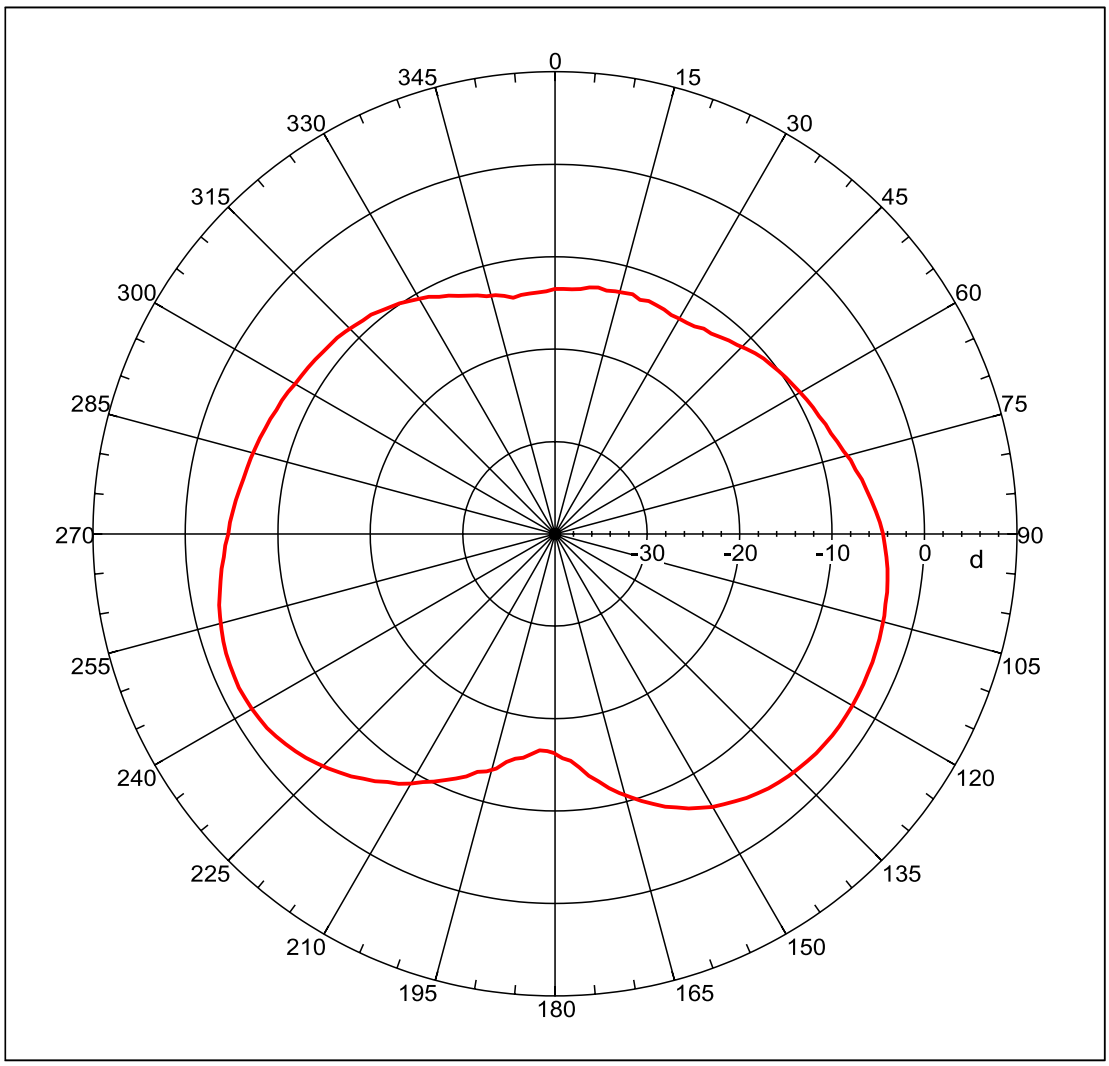


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.00413 dBi
Max far-field (global) = -43.83441 dB, Max far-field (plot) = -43.83442 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -116.000 deg, Vpeak at: 0.000 deg
Plot centering: On 20170421-ANT-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-E.nsi
Measurement date/time: 4/21/2017 3:57:07 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -7.248 dB
-3. dB beam width: 49.54 deg -6. dB beam width: 96.85 deg -10. dB beam width: 142.80 deg Left Sidelobe: Not Found
Right Sidelobe: -0.67 dB at 115.643 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 11
Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
0.8375 GHz Azimuth Elevation Single-pol

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(36) E Plane 842.5MHz: -1.99118dBi

Far-field amplitude of 20170421-ANT-E.nsi

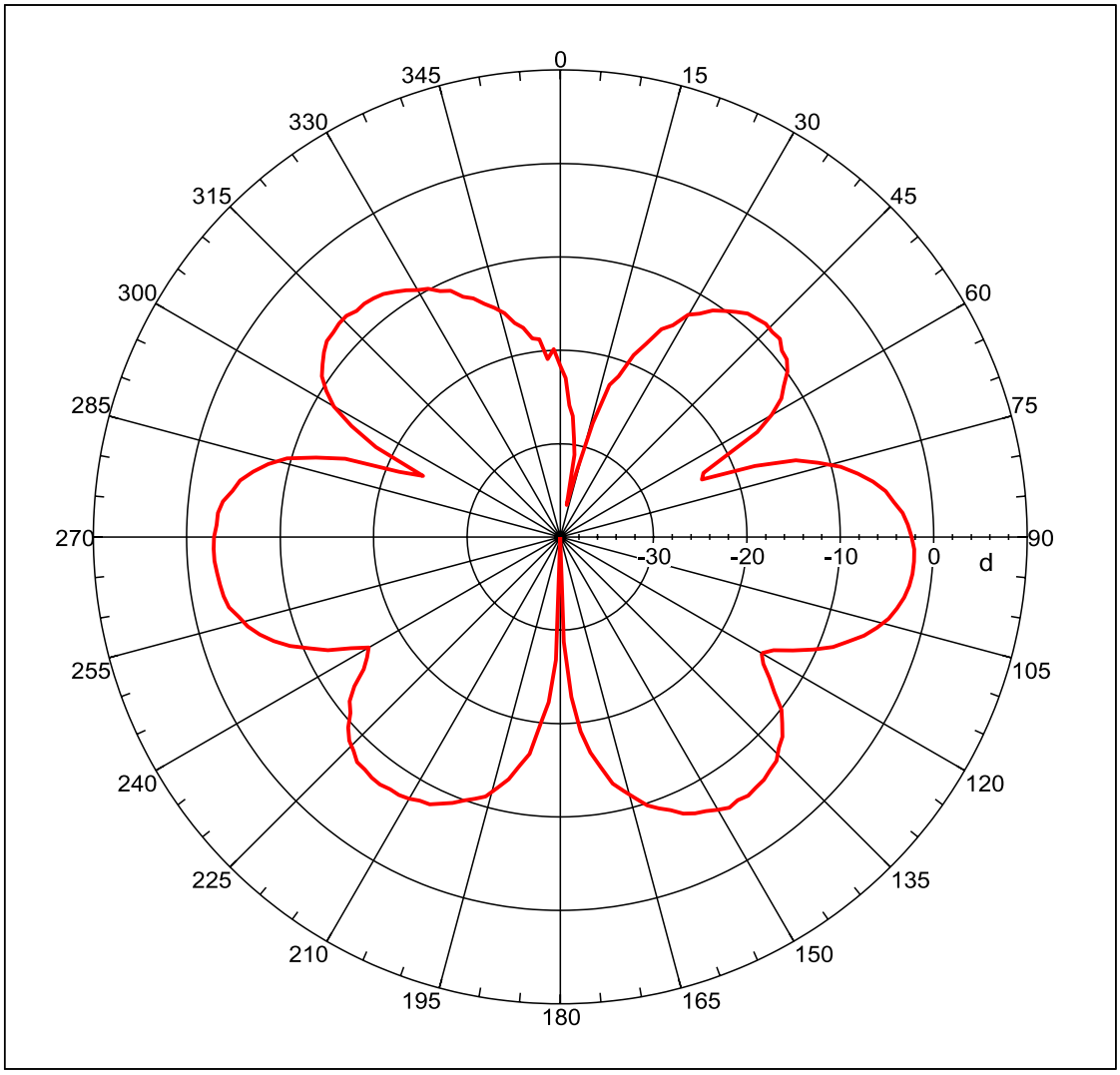


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -1.99118 dBi
Max far-field (global) = -43.74957 dB, Max far-field (plot) = -43.74959 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -116.000 deg, Vpeak at: 0.000 deg
Plot centering: On 20170421-ANT-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-E.nsi
Measurement date/time: 4/21/2017 3:57:07 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -7.269 dB
-3. dB beam width: 50.56 deg -6. dB beam width: 94.68 deg -10. dB beam width: 137.35 deg Left Sidelobe: Not Found
Right Sidelobe: -10.97 dB at 11.061 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 11
Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
0.8425 GHz Azimuth Elevation Single-pol

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(37) E Plane 1922.5MHz: -2.0111dBi

Far-field amplitude of 20170421-ANT-E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.0111 dBi

Max far-field (global) = -49.5146 dB, Max far-field (plot) = -49.51463 dB

Normalization: Reference, Network offset = 0.000 dB Hpeak at: 93.99999 deg, Vpeak at: 0.000 deg

Plot centering: On 20170421-ANT-E

NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-E.nsi

Measurement date/time: 4/21/2017 3:57:07 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -9.460 dB

-3. dB beam width: 25.04 deg -6. dB beam width: 34.16 deg -10. dB beam width: 42.66 deg

Left Sidelobe: -6.33 dB at 49.274 deg Right Sidelobe: -3.74 dB at 145.810 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 11

Beam Frequency Azimuth Elevation Pol

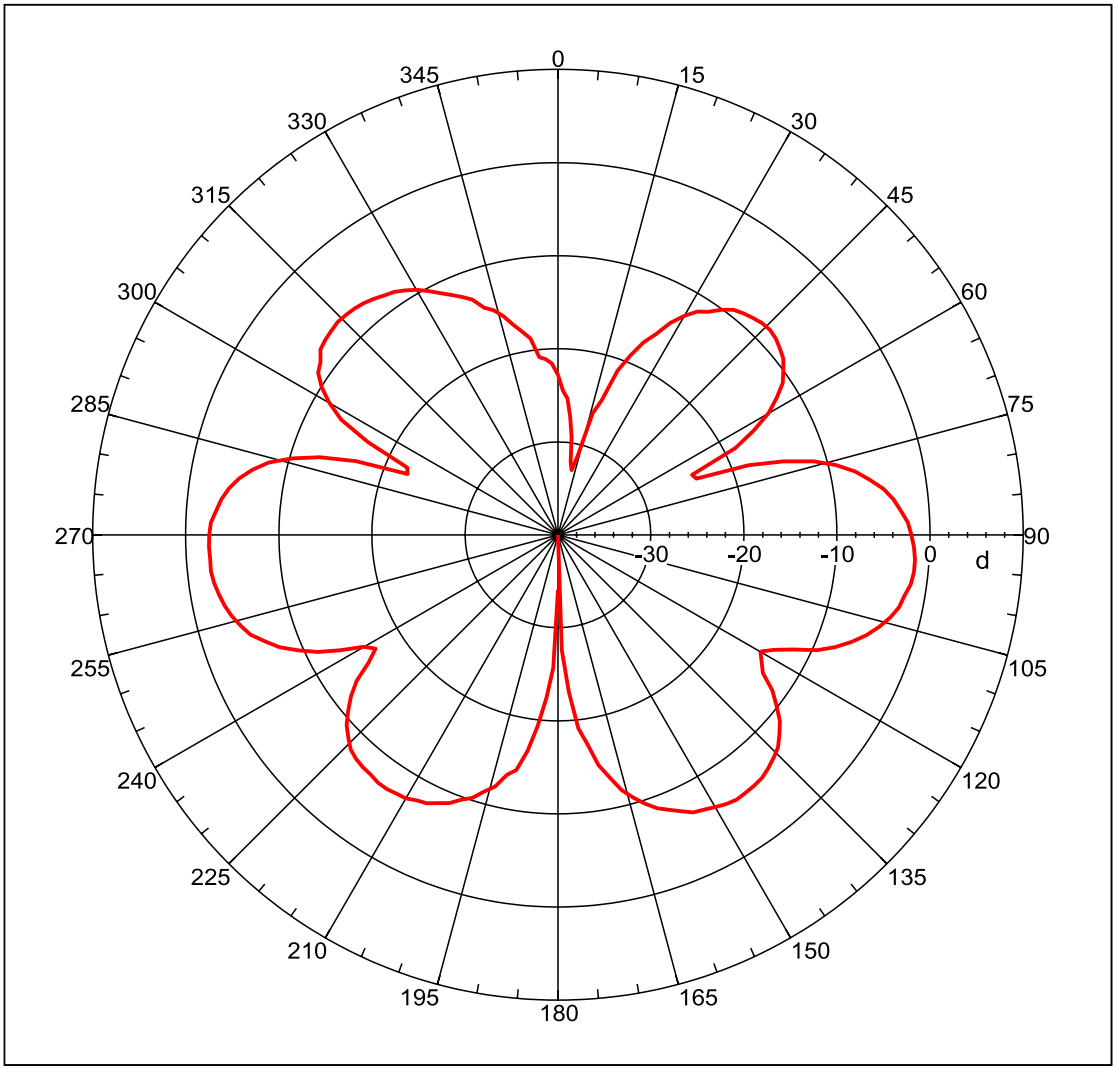
---- --------- ------- --------- ---

1.9225 GHz Azimuth Elevation Single-po

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(38) E Plane 1927.5MHz: -1.53368dBi

Far-field amplitude of 20170421-ANT-E.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -1.53368 dBi

Max far-field (global) = -49.12608 dB, Max far-field (plot) = -49.12611 dB

Normalization: Reference, Network offset = 0.000 dB Hpeak at: 96.000 deg, Vpeak at: 0.000 deg

Plot centering: On 20170421-ANT-E

NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-E.nsi

Measurement date/time: 4/21/2017 3:57:07 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -9.284 dB

-3. dB beam width: 24.74 deg -6. dB beam width: 33.96 deg -10. dB beam width: 42.06 deg

Left Sidelobe: -6.78 dB at 47.263 deg Right Sidelobe: -4.14 dB at 147.821 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 11

Beam Frequency Azimuth Elevation Pol

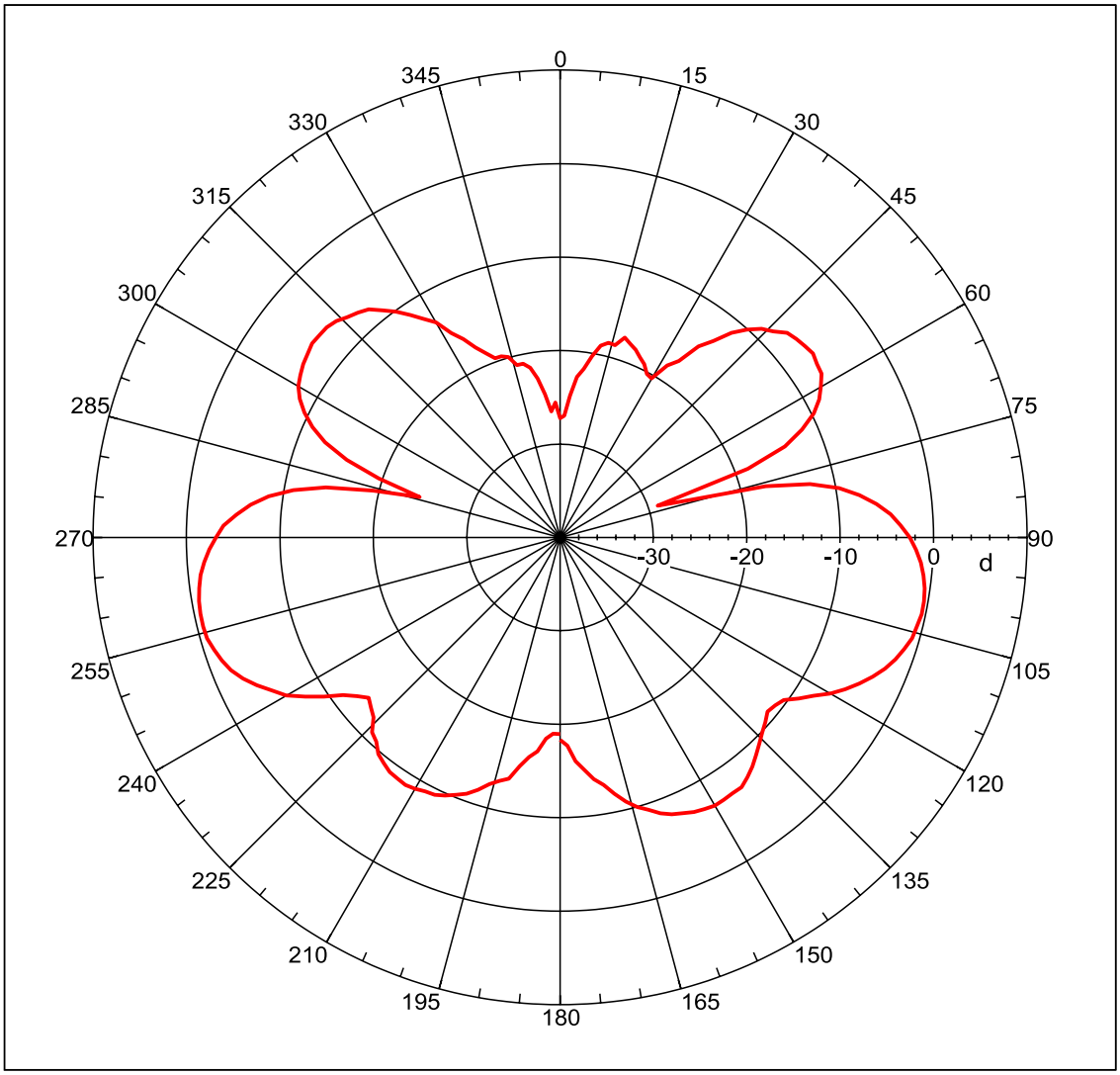
---- --------- ------- --------- ---

1.9275 GHz Azimuth Elevation Single-pol

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(39) E Plane 1977.5MHz: -0.41863dBi

Far-field amplitude of 20170421-ANT-E.nsi

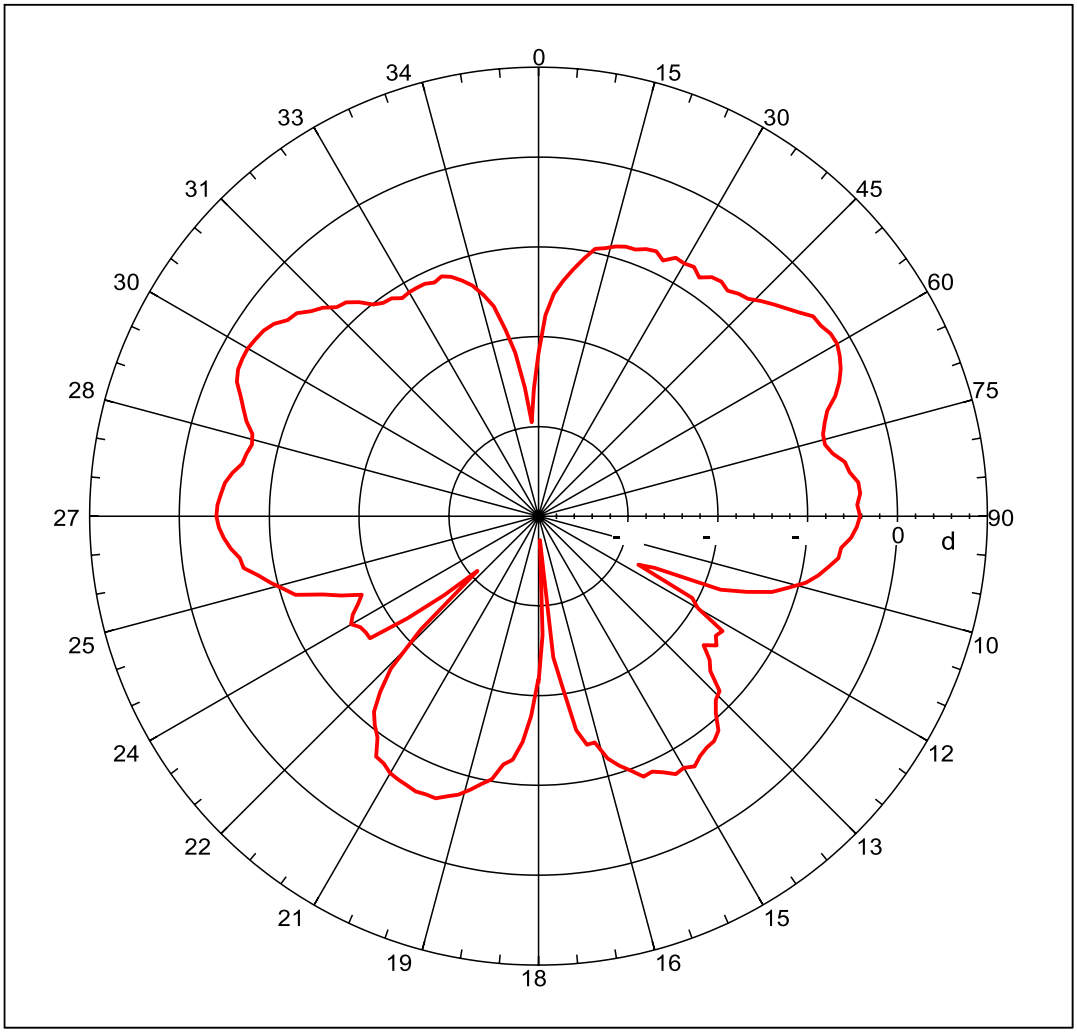


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -0.41863 dBi
Max far-field (global) = -48.30526 dB, Max far-field (plot) = -48.30529 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 102.000 deg, Vpeak at: 0.000 deg
Plot centering: On 20170421-ANT-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-E.nsi
Measurement date/time: 4/21/2017 3:57:07 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.752 dB
-3. dB beam width: 26.06 deg -6. dB beam width: 36.50 deg -10. dB beam width: 46.89 deg
Left Sidelobe: -6.13 dB at 55.307 deg Right Sidelobe: -6.53 dB at 145.810 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 11
Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
1.9775 GHz Azimuth Elevation Single-pol

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(40) E Plane 2550MHz: -1.57001dBi

Far-field amplitude of 20170421-ANT-E.nsi



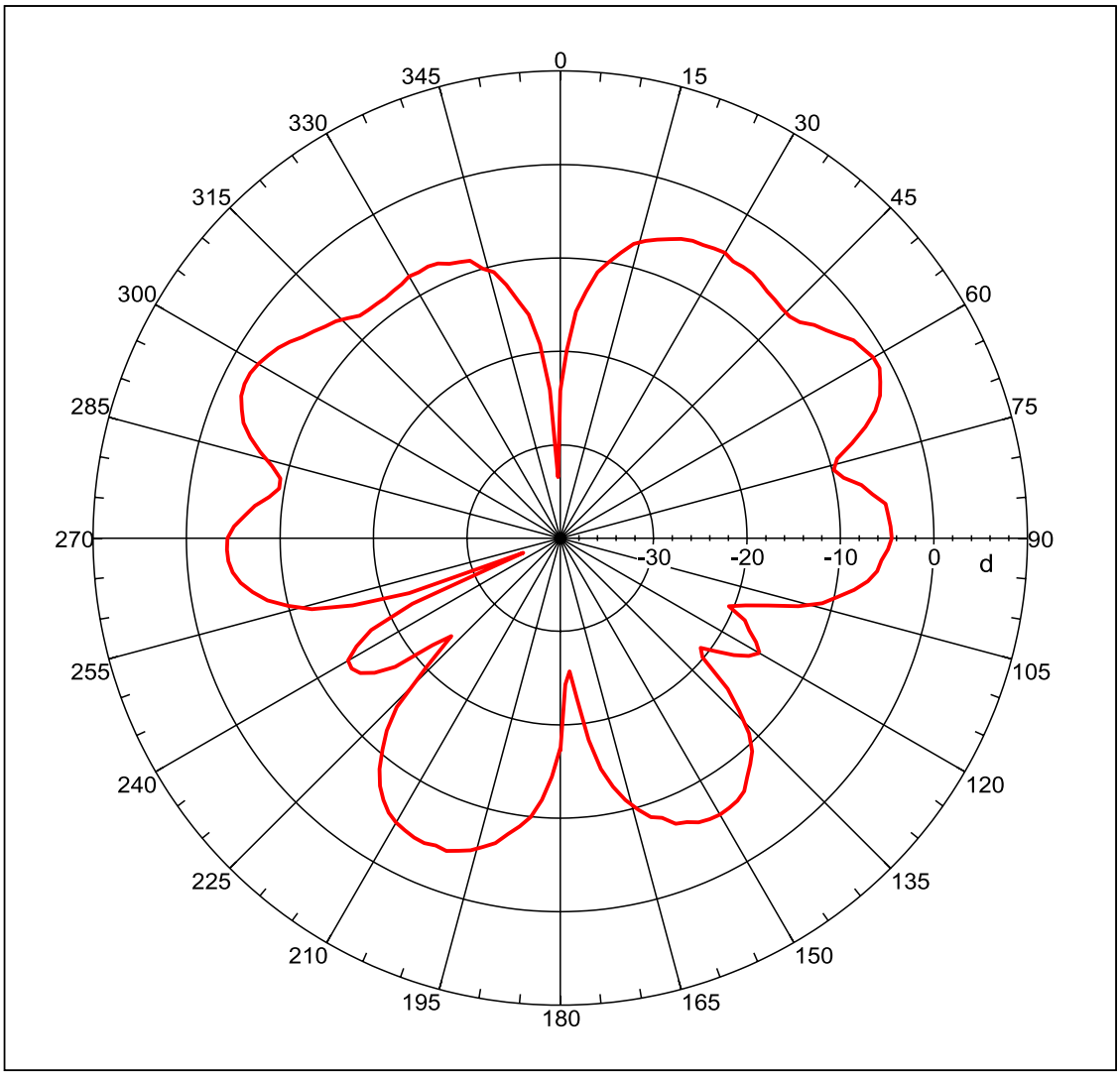
Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -1.57001 dBi
Max far-field (global) = -51.96975 dB, Max far-field (plot) = -51.96981 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 59.99999 deg, Vpeak at: 0.000 deg
Plot centering: On 20170421-ANT-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-E.nsi
Measurement date/time: 4/21/2017 3:57:07 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.710 dB
-3. dB beam width: 19.87 deg -6. dB beam width: 66.18 deg -10. dB beam width: 98.15 deg
Left Sidelobe: -9.64 dB at -21.117 deg Right Sidelobe: -2.48 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 11

Beam	Frequency	Azimuth	Elevation	Pol
2.550 GHz	Azimuth	Elevation	Single-pol	

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(41) E Plane 2595MHz: -1.28734dBi

Far-field amplitude of 20170421-ANT-E.nsi

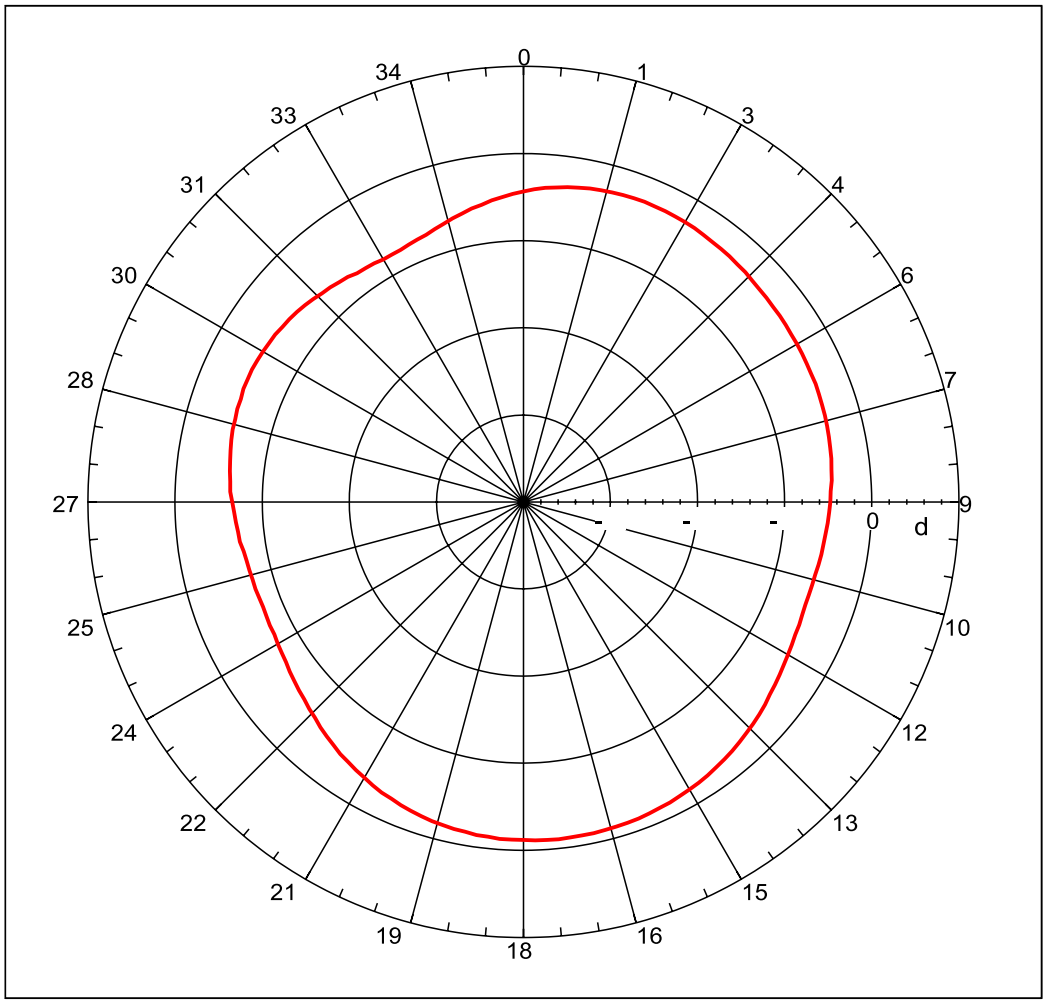


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -1.28734 dBi
Max far-field (global) = -51.66095 dB, Max far-field (plot) =-51.66101 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 61.99999 deg, Vpeak at: 0.000 deg
Plot centering: On 20170421-ANT-E
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-E.nsi
Measurement date/time: 4/21/2017 3:57:07 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -8.025 dB
-3. dB beam width: 18.18 deg -6. dB beam width: 57.60 deg -10. dB beam width: 96.69 deg
Left Sidelobe: -3.45 dB at 31.173 deg Right Sidelobe: -3.22 dB at 91.508 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 11
Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
2.595 GHz Azimuth Elevation Single-pol

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(42) H Plane 817.5MHz: -1.07311dBi

Far-field amplitude of 20170421-ANT-H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Max far-field (global) = -43.50728 dB, Max far-field (plot) = Gain = -1.07311 dBi -43.50733 dB

Normalization: Reference, Network offset = 0.000 dB Hpeak at: 174.000 deg, Vpeak at: 0.000 deg

Plot centering: On 20170421-ANT-H

NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-H.nsi

Measurement date/time: 4/21/2017 3:39:23 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -4.319 dB

-3. dB beam width: Not Found -6. dB beam width: Not Found -10. dB beam width: Not Found

Left Sidelobe: -2.75 dB at 69.385 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 11 Beam Frequency Azimuth Elevation Pol

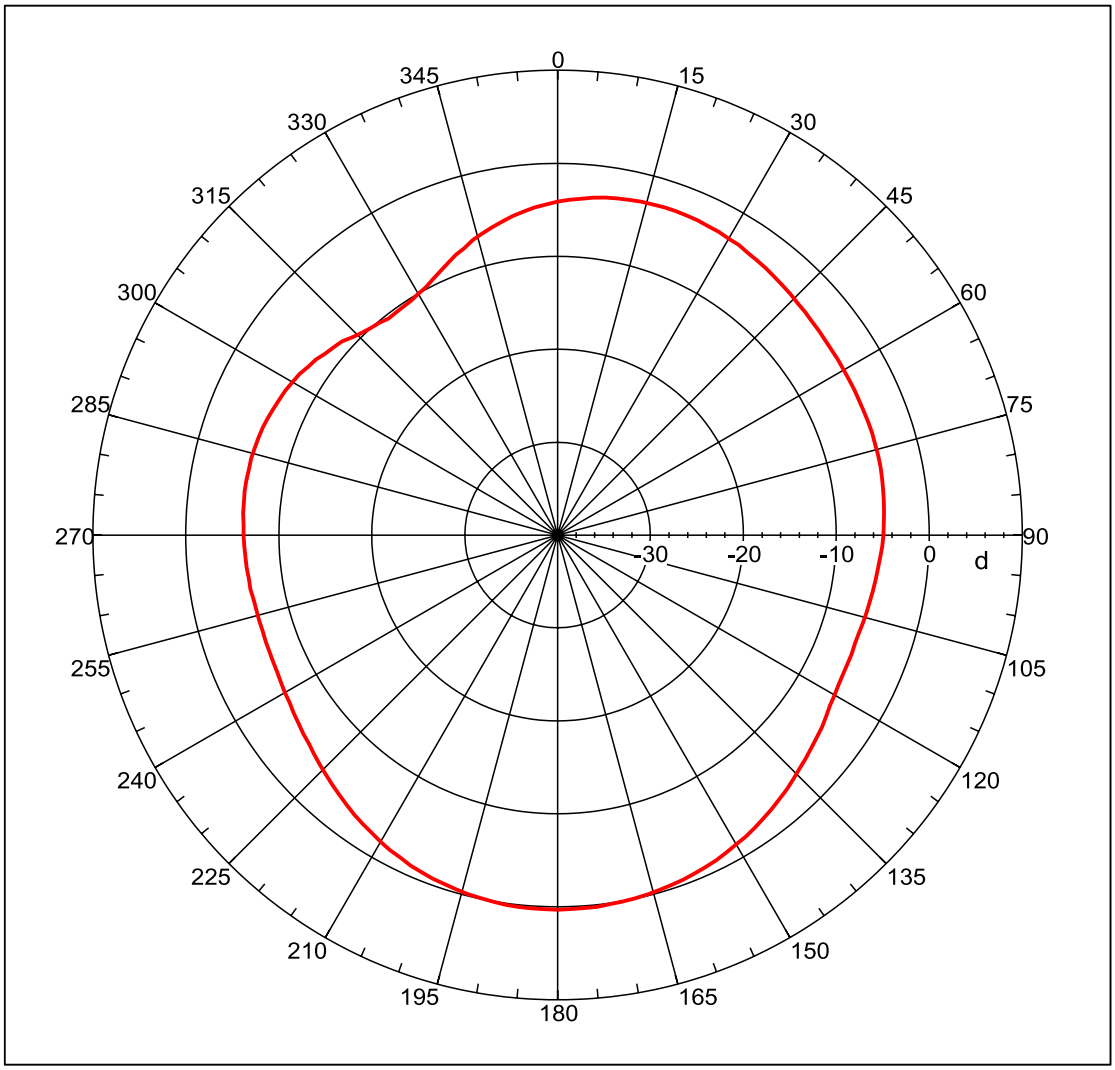
---- --------- ------- --------- ---

0.8175 GHz Azimuth Elevation Single-pol

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(43) H Plane 822.5MHz: 0.29098dBi

Far-field amplitude of 20170421-ANT-H.nsi

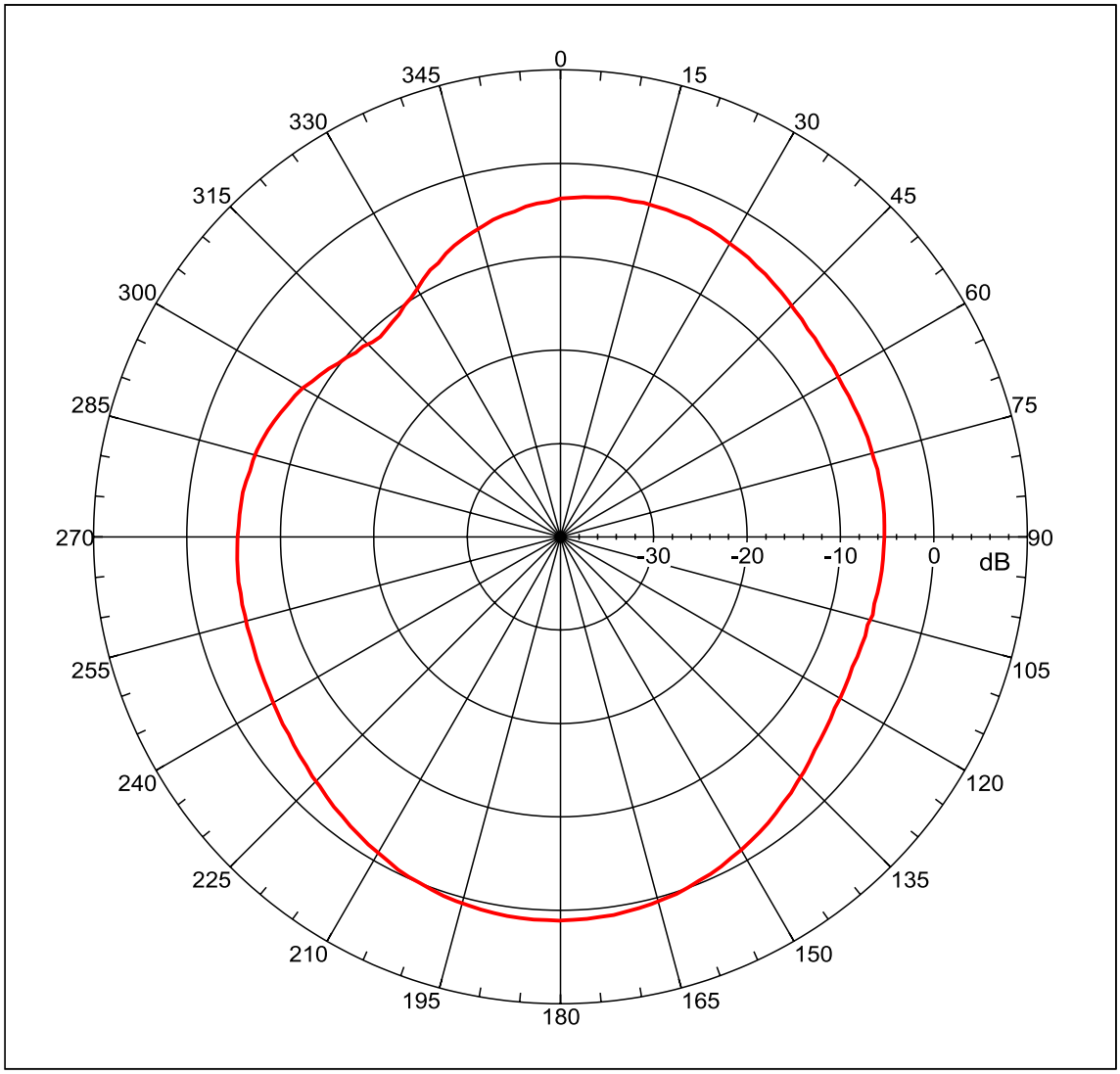


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = 0.29098 dBi
Max far-field (global) = -41.89619 dB, Max far-field (plot) = -41.89622 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -180.00001 deg, Vpeak at: 0.000 deg
Plot centering: On 20170421-ANT-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-H.nsi
Measurement date/time: 4/21/2017 3:39:23 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -4.181 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: -3.20 dB at 21.117 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 11
Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
0.8225 GHz Azimuth Elevation Single-pol

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(44) H Plane 827.5MHz: 1.08653dBi

Far-field amplitude of 20170421-ANT-H.nsi

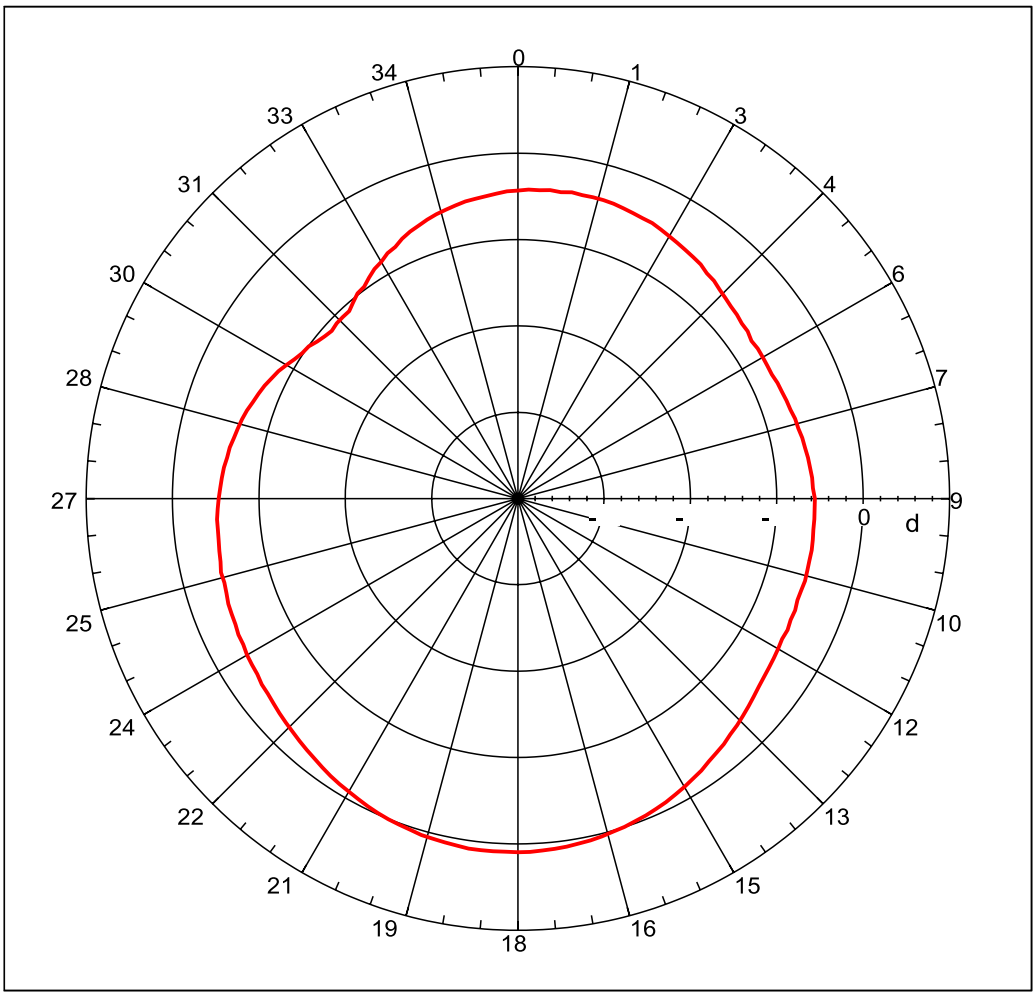


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = 1.08653 dBi
Max far-field (global) = -41.01864 dB, Max far-field (plot) = -41.01868 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -180.00001 deg, Vpeak at: 0.000 deg
Plot centering: On 20170421-ANT-H
NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-H.nsi
Measurement date/time: 4/21/2017 3:39:23 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -3.915 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: -4.30 dB at 11.061 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 11
Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
0.8275 GHz Azimuth Elevation Single-pol

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(45) H Plane 832.5MHz: 0.95485dBi

Far-field amplitude of 20170421-ANT-H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = 0.95485 dBi Max far-field (global) = -41.03332 dB, Max far-field (plot) = -41.03334 dB

Normalization: Reference, Network offset = 0.000 dB Hpeak at: -176.000 deg, Vpeak at: 0.000 deg

Plot centering: On 20170421-ANT-H

NSI2000 V4.0.124, Filename:C:¥Documents and Settings¥NSI¥Desktop¥20 170421-ANT¥20170421-ANT-H.nsi

Measurement date/time: 4/21/2017 3:39:23 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -4.130 dB

-3. dB beam width: Not Found -6. dB beam width: Not Found -10. dB beam width: Not Found Left Sidelobe: Not Found Right Sidelobe: -5.17 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 11

Beam Frequency Azimuth Elevation Pol

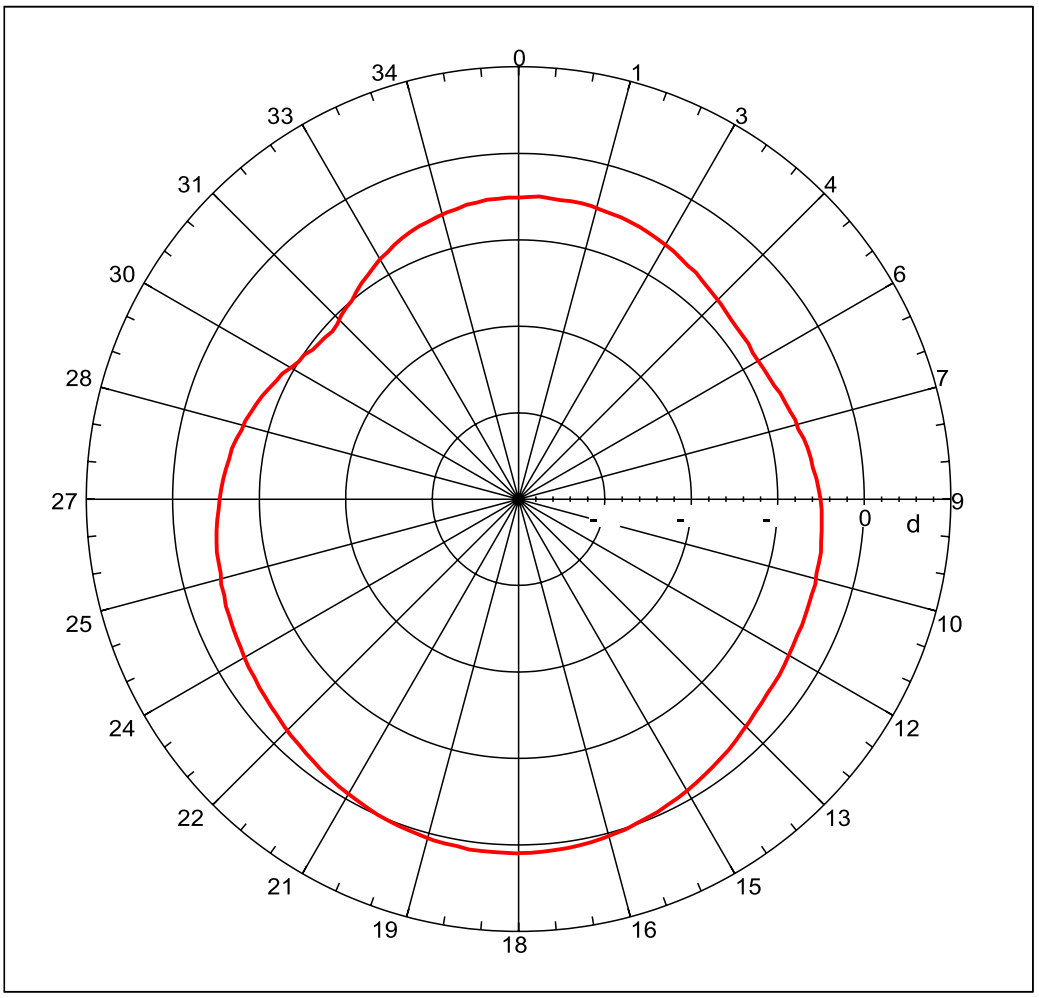
---- --------- ------- --------- ---

0.8325 GHz Azimuth Elevation Single-pol

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(46) H Plane 837.5MHz: 0.96363dBi

Far-field amplitude of 20170421-ANT-H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = 0.96363 dBi Max far-field (global) = -40.86665 dB, Max far-field (plot) = -40.86668 dB

Normalization: Reference, Network offset = 0.000 dB Hpeak at: -180.00001 deg, Vpeak at: 0.000 deg

Plot centering: On 20170421-ANT-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20 170421-ANT\20170421-ANT-H.nsi

Measurement date/time: 4/21/2017 3:39:23 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -4.069 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: -6.07 dB at -1.006 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 11

Beam Frequency Azimuth Elevation Pol

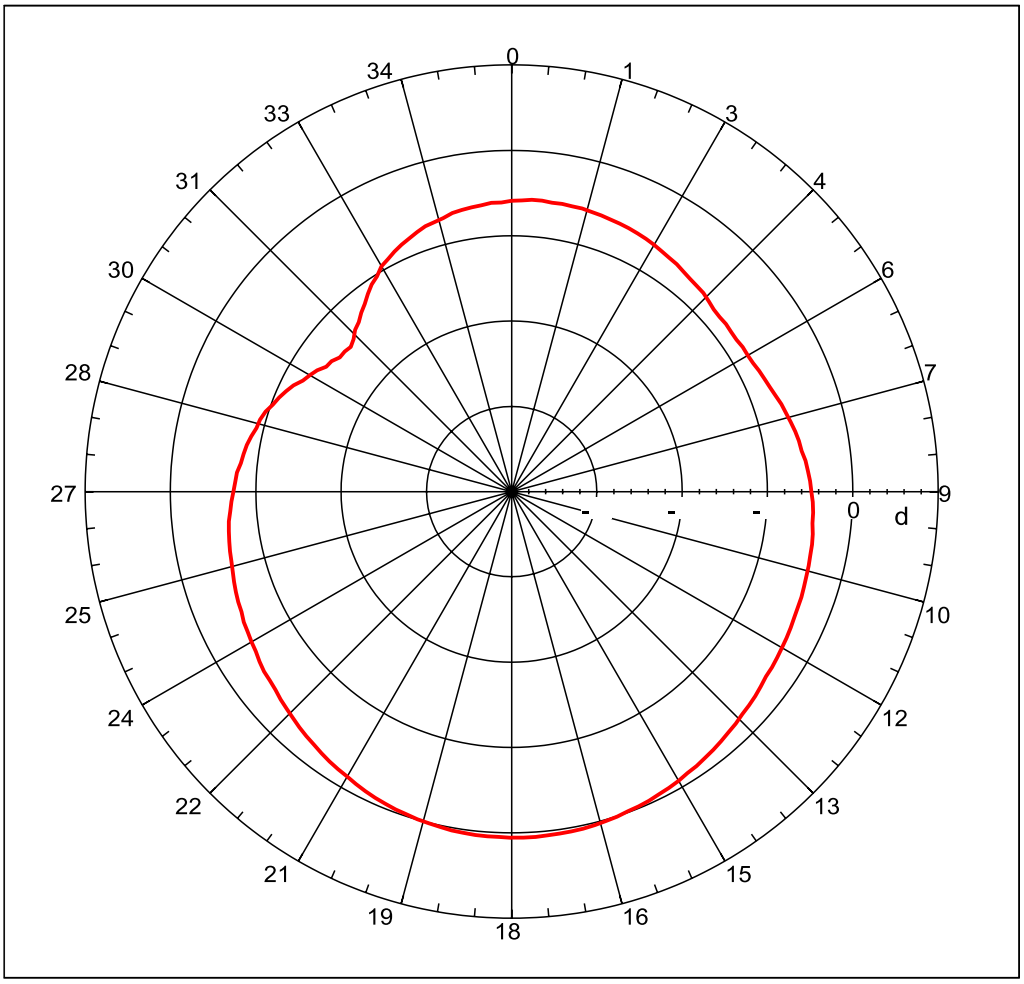
---- --------- ------- --------- ---

0.8375 GHz Azimuth Elevation Single-pol

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(47) H Plane 842.5MHz: dBi 0.56134dBi

Far-field amplitude of 20170421-ANT-H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = 0.56134 dBi Max far-field (global) = -41.19705 dB, Max far-field (plot) = -41.19706 dB

Normalization: Reference, Network offset = 0.000 dB Hpeak at: 177.99999 deg, Vpeak at: 0.000 deg

Plot centering: On 20170421-ANT-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20 170421-ANT\20170421-ANT-H.nsi

Measurement date/time: 4/21/2017 3:39:23 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -4.687 dB

-3. dB beam width: Not Found -6. dB beam width: Not Found -10. dB beam width: Not Found

Left Sidelobe: -6.37 dB at 15.084 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 11

Beam Frequency Azimuth Elevation Pol

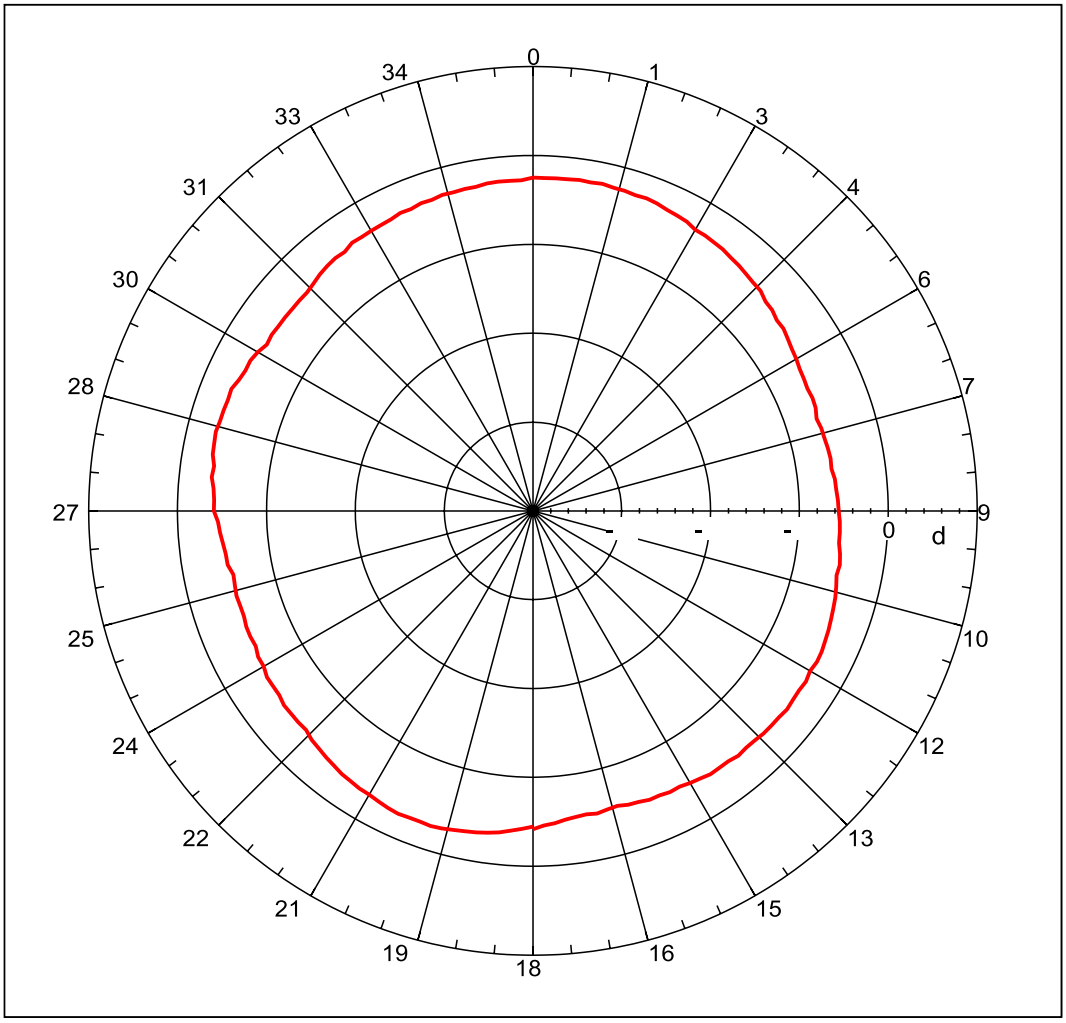
---- --------- ------- --------- ---

0.8425 GHz Azimuth Elevation Single-pol

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(48) H Plane 1922.5MHz: dBi -2.38823dBi

Far-field amplitude of 20170421-ANT-H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.38823 dBi Max far-field (global) = -49.89173 dB, Max far-field (plot) = -49.89174 dB

Normalization: Reference, Network offset = 0.000 dB Hpeak at: 11.99999 deg, Vpeak at: 0.000 deg

Plot centering: On 20170421-ANT-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20 170421-ANT\20170421-ANT-H.nsi

Measurement date/time: 4/21/2017 3:39:23 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -4.141 dB

-3. dB beam width: 158.12 deg -6. dB beam width: Not Found -10. dB beam width: Not Found

Left Sidelobe: -1.02 dB at -67.374 deg Right Sidelobe: -2.54 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 11

Beam Frequency Azimuth Elevation Pol

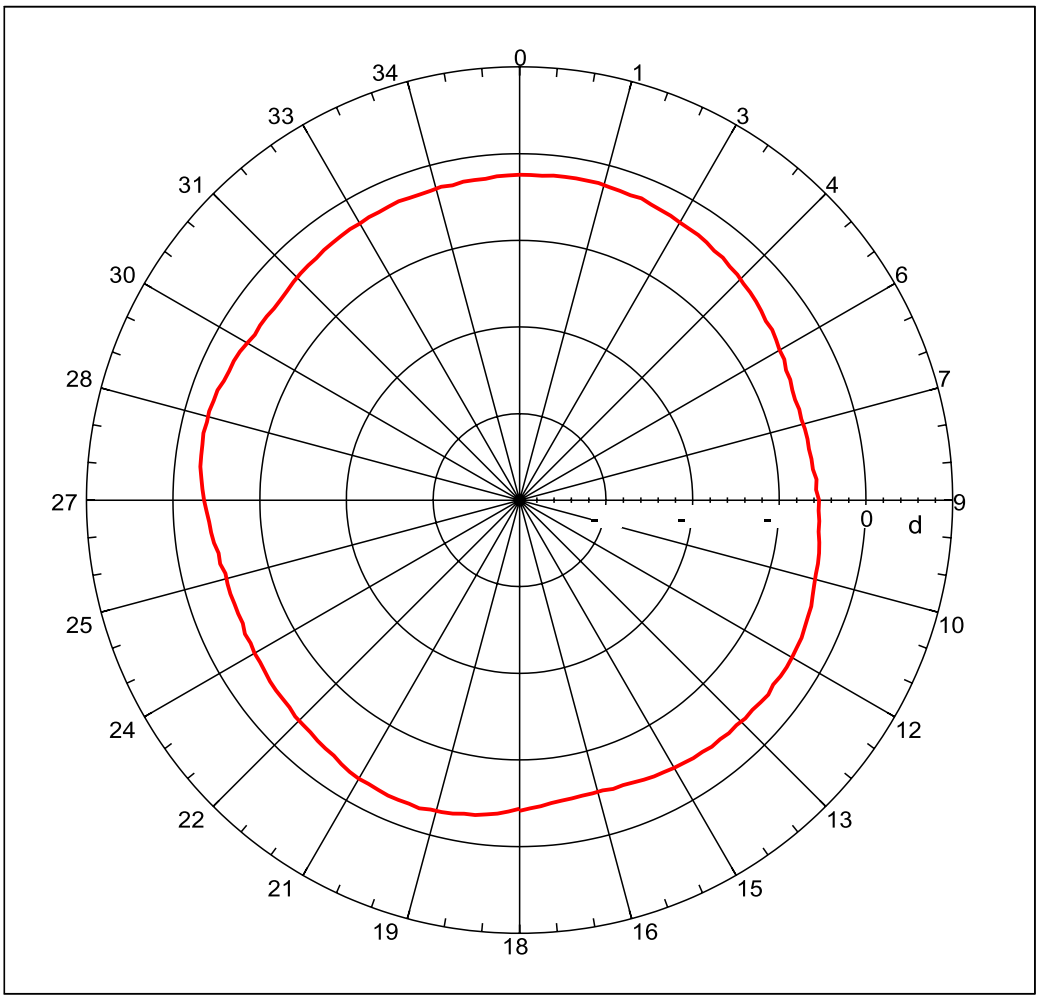
---- --------- ------- --------- ---

1.9225 GHz Azimuth Elevation Single-pol

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(49) H Plane 1927.5MHz: dBi -2.27133dBi

Far-field amplitude of 20170421-ANT-H.nsi

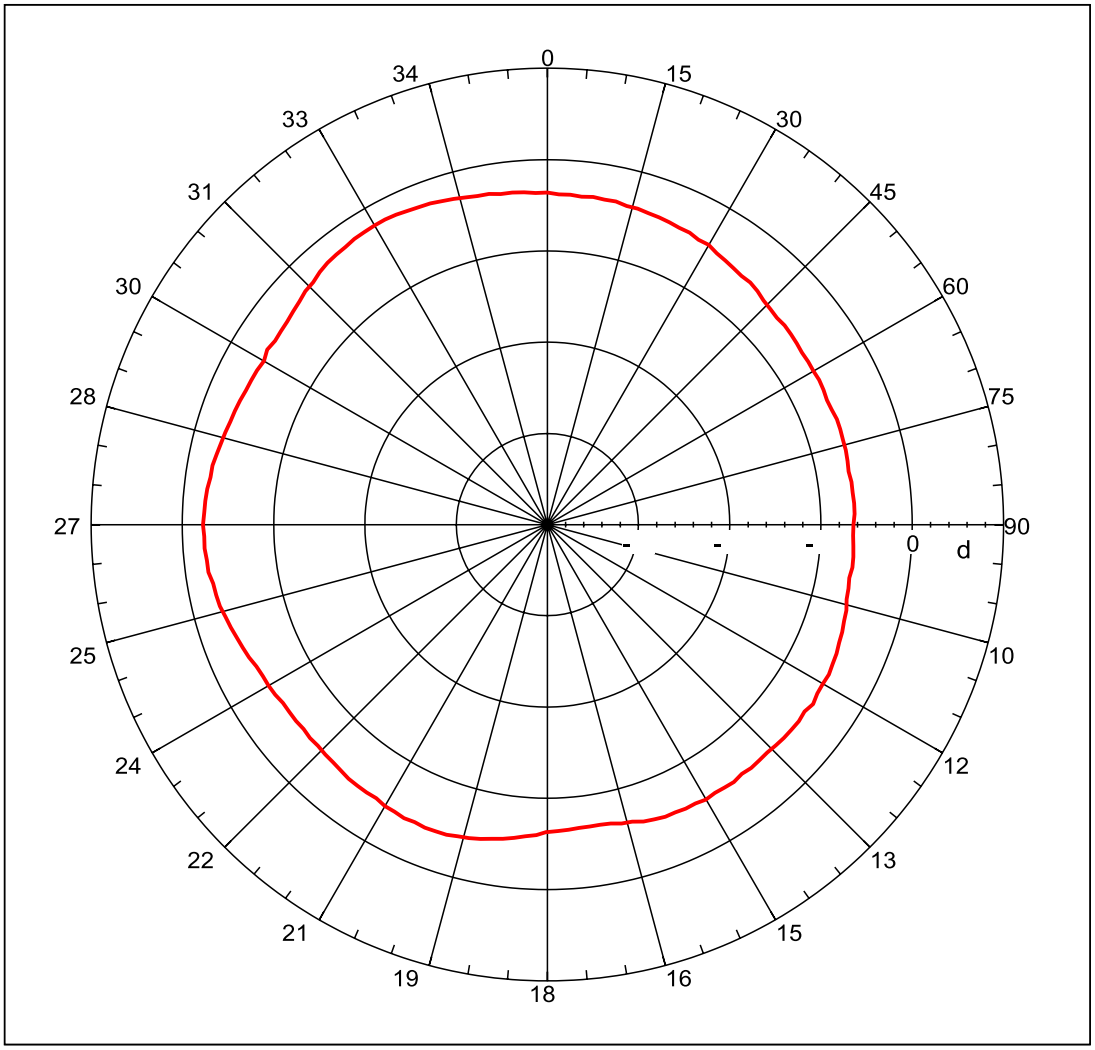


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.27133 dBi
Max far-field (global) = -49.86373 dB, Max far-field (plot) =-49.86374 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: 13.99999 deg, Vpeak at: 0.000 deg
Plot centering: On 20170421-ANT-H
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20 170421-ANT\20170421-ANT-H.nsi
Measurement date/time: 4/21/2017 3:39:23 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -3.853 dB
-3. dB beam width: Not Found -6. dB beam width: Not Found -10. dB beam width: Not Found
Left Sidelobe: -0.49 dB at -73.408 deg Right Sidelobe: -1.37 dB at 123.687 deg
Far-field display setup Azimuth (deg) Span = 360.00001 deg, Center = 0.000 deg, #pts = 181 Start= -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000 deg
Elevation (deg) Center = 0.000 deg, #pts = 1
Selected beam(s) 1 of 11
Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
1.9275 GHz Azimuth Elevation Single-pol

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(50) H Plane 1977.5MHz: dBi -2.15366dBi

Far-field amplitude of 20170421-ANT-H.nsi

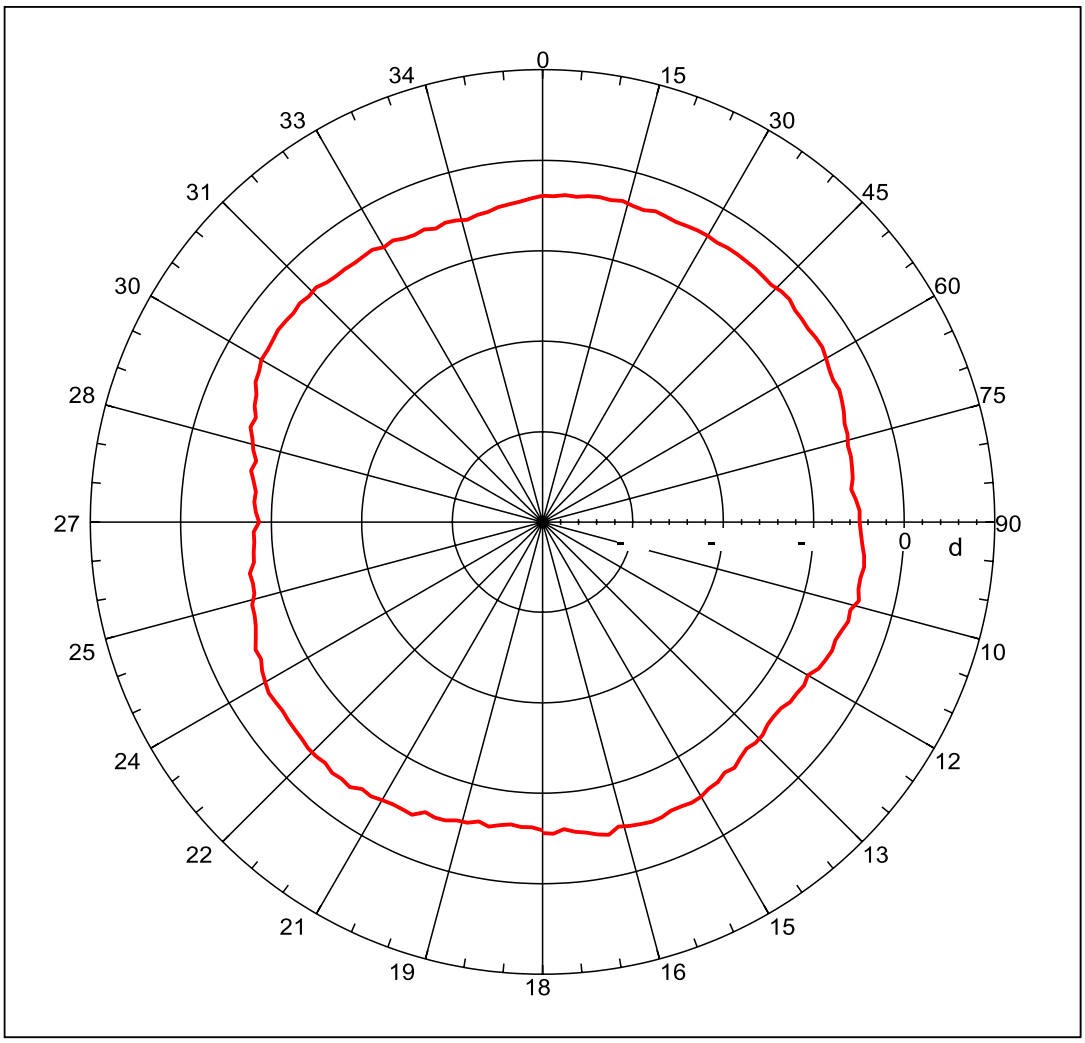


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -2.15366 dBi
Max far-field (global) = -50.04029 dB, Max far-field (plot) = -50.0403 dB
Normalization: Reference, Network offset = 0.000 dB Hpeak at: -28.00001 deg, Vpeak at: 0.000 deg
Plot centering: On 20170421-ANT-H
NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20 170421-ANT\20170421-ANT-H.nsi
Measurement date/time: 4/21/2017 3:39:23 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -4.533 dB
-3. dB beam width: 165.32 deg -6. dB beam width: Not Found -10. dB beam width: Not Found
Left Sidelobe: -0.12 dB at -89.497 deg Right Sidelobe: -2.89 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 11
Beam Frequency Azimuth Elevation Pol
---- --------- ------- --------- ---
1.9775 GHz Azimuth Elevation Single-pol

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(51) H Plane 2550MHz: dBi -3.23576dBi

Far-field amplitude of 20170421-ANT-H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -3.23576 dBi Max far-field (global) = -53.6355 dB, Max far-field (plot) = -53.63551 dB

Normalization: Reference, Network offset = 0.000 dB Hpeak at: 47.99999 deg, Vpeak at: 0.000 deg

Plot centering: On 20170421-ANT-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20 170421-ANT\20170421-ANT-H.nsi

Measurement date/time: 4/21/2017 3:39:23 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -4.936 dB

-3. dB beam width: 197.32 deg -6. dB beam width: Not Found -10. dB beam width: Not Found

Left Sidelobe: -1.27 dB at -31.173 deg Right Sidelobe: -0.87 dB at 99.553 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 11

Beam Frequency Azimuth Elevation Pol

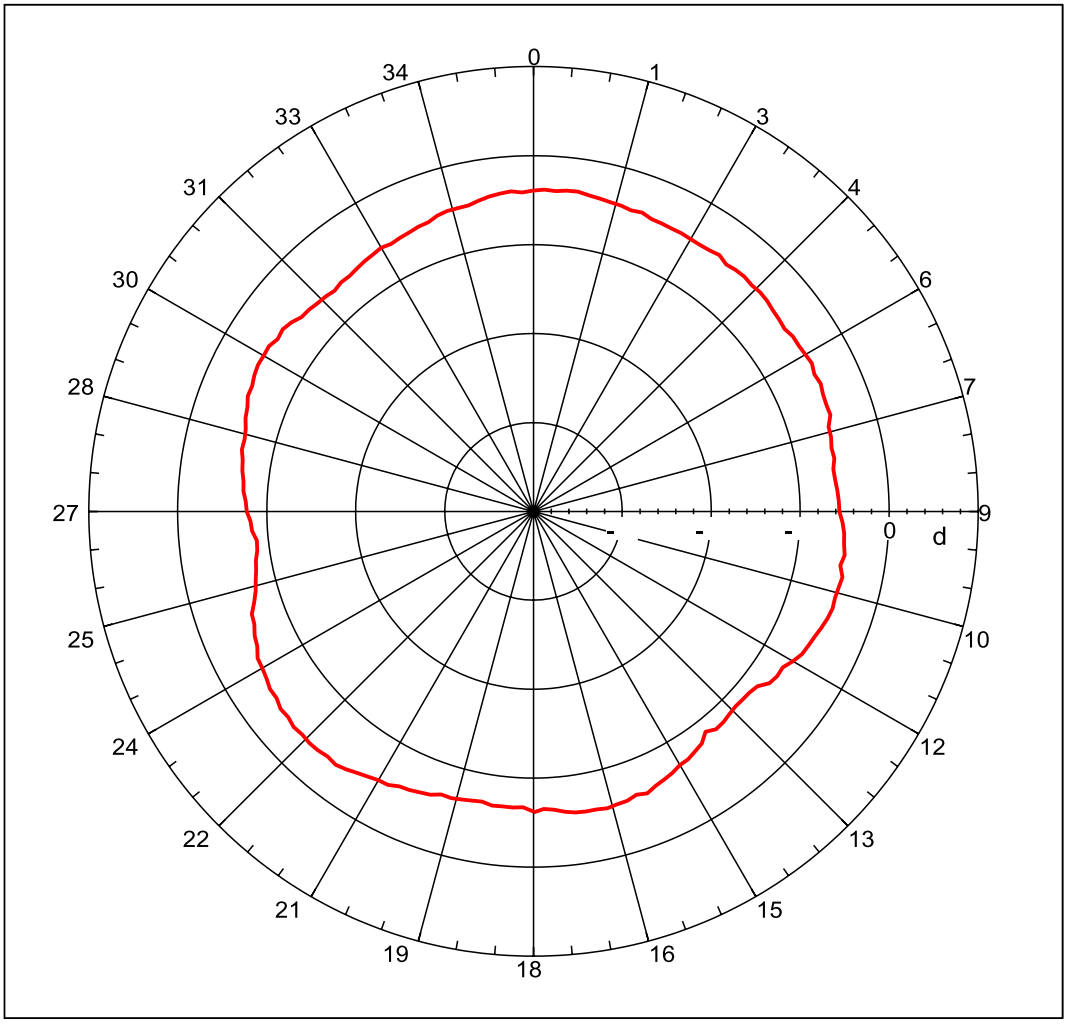
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2.550 GHz Azimuth Elevation Single-pol

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(52) H Plane 2595MHz: dBi -3.70291dBi

Far-field amplitude of 20170421-ANT-H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg Gain = -3.70291 dBi Max far-field (global) = -54.07652 dB, Max far-field (plot) = -54.07653 dB

Normalization: Reference, Network offset = 0.000 dB Hpeak at: 7.99999 deg, Vpeak at: 0.000 deg

Plot centering: On 20170421-ANT-H

NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\20 170421-ANT\20170421-ANT-H.nsi

Measurement date/time: 4/21/2017 3:39:23 PM, Filetype: NSI-97 Far-field Cut Analysis: Avg value: -5.574 dB

-3. dB beam width: 201.64 deg -6. dB beam width: Not Found -10. dB beam width: Not Found

Left Sidelobe: -1.49 dB at -53.296 deg Right Sidelobe: -0.96 dB at 99.553 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 11

Beam Frequency Azimuth Elevation Pol

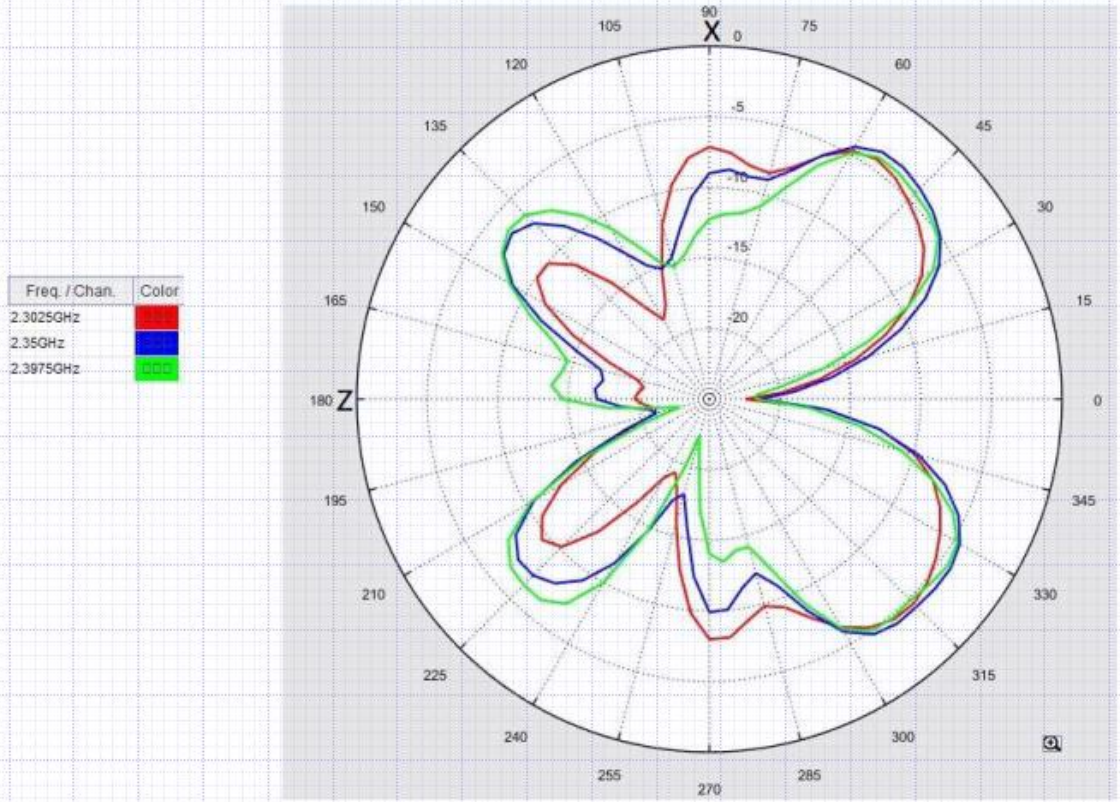
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2.595 GHz Azimuth Elevation Single-pol

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（追加試験:2023 年 2 月）

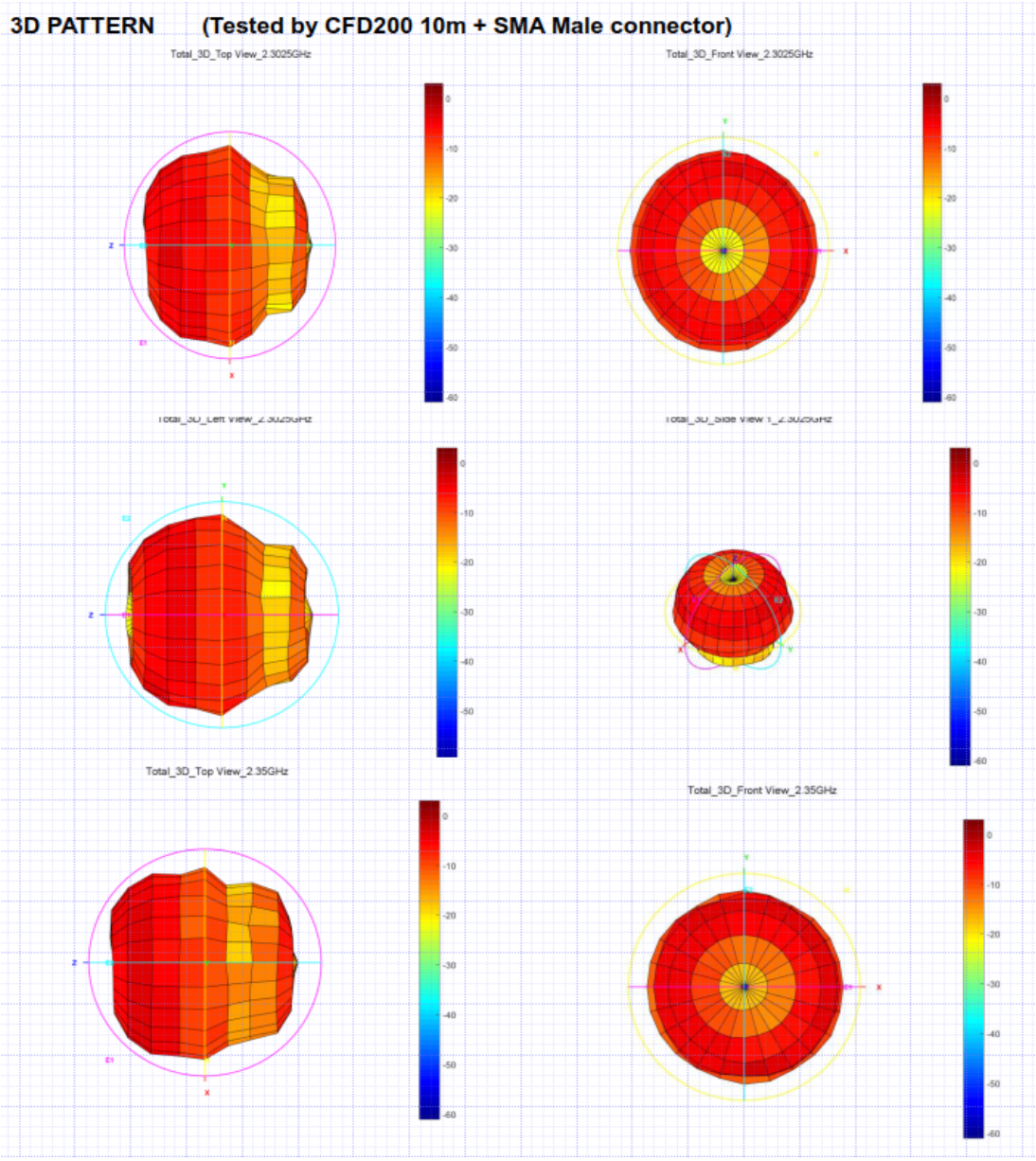
2D PATTERN (Tested by CFD200 10m + SMA Male connector)



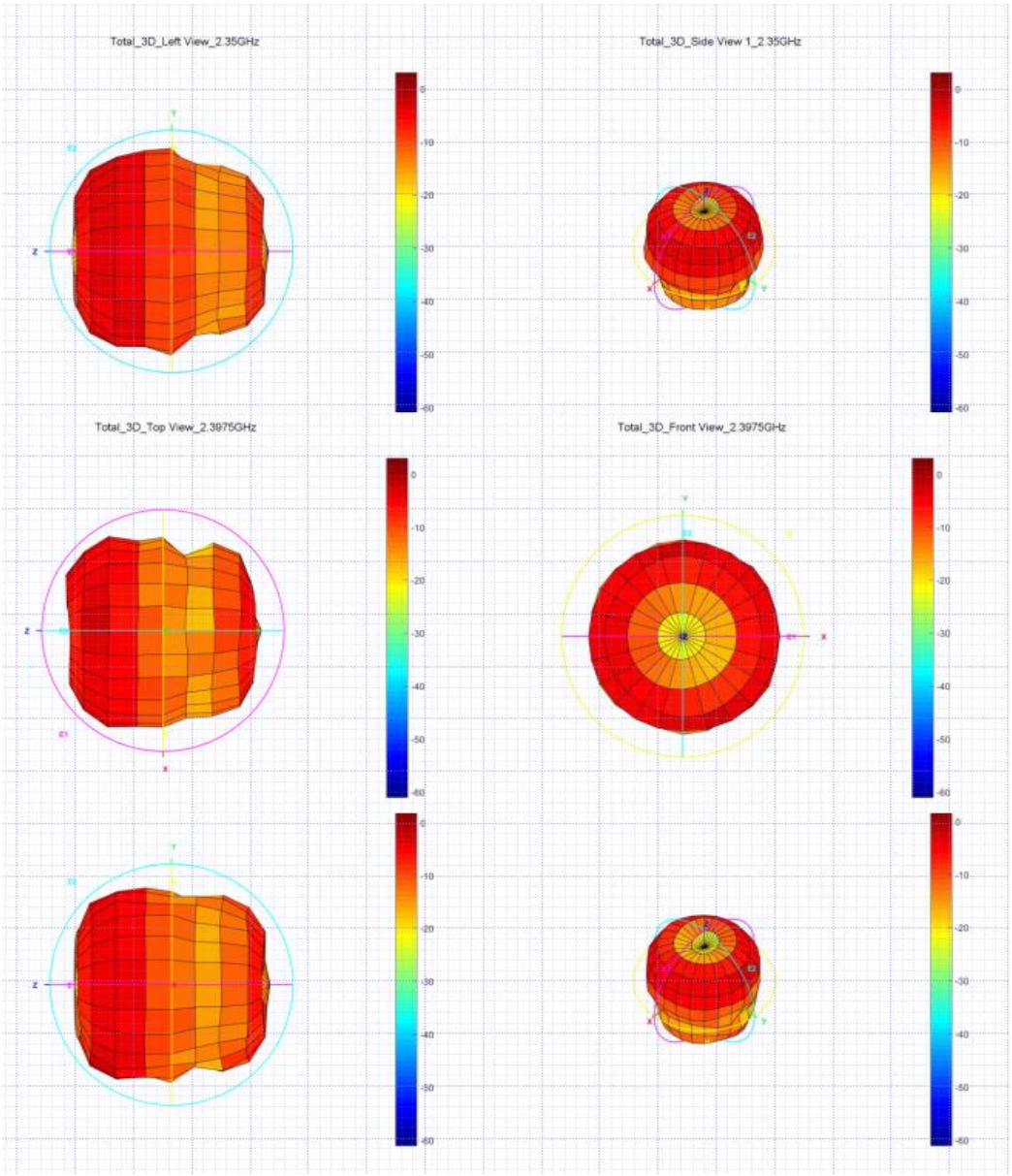
Frequency	2.3025GHz	2.35GHz	2.3975GHz
Horizontal+Vertical			
Efficiency (%)	14.06	15.85	14.55
Gain (dBi)	-3.74	-3	-2.96
Horizontal			
H Efficiency (%)	13.09	14.86	13.61
H Gain (dBi)	-3.88	-3.02	-3.02
Vertical			
V Efficiency (%)	0.98	0.98	0.94
V Gain (dBi)	-13.04	-13.4	-12.55

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3D PATTERN (Tested by CFD200 10m + SMA Male connector)



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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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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

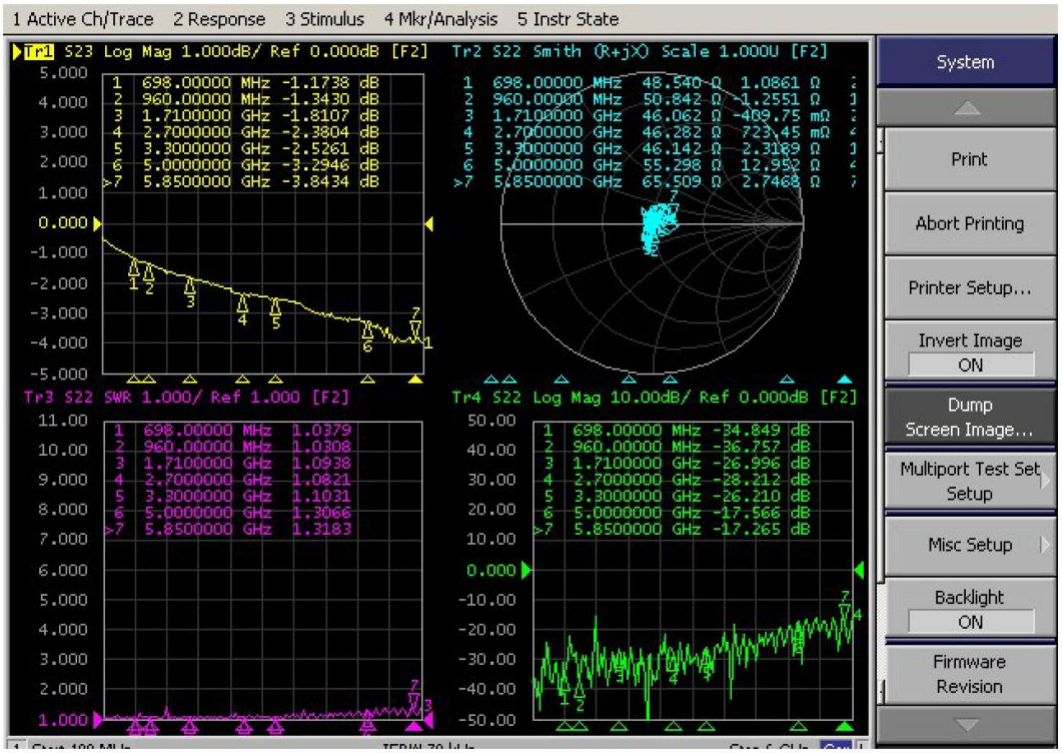
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3. Characteristics and Reliability Test

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

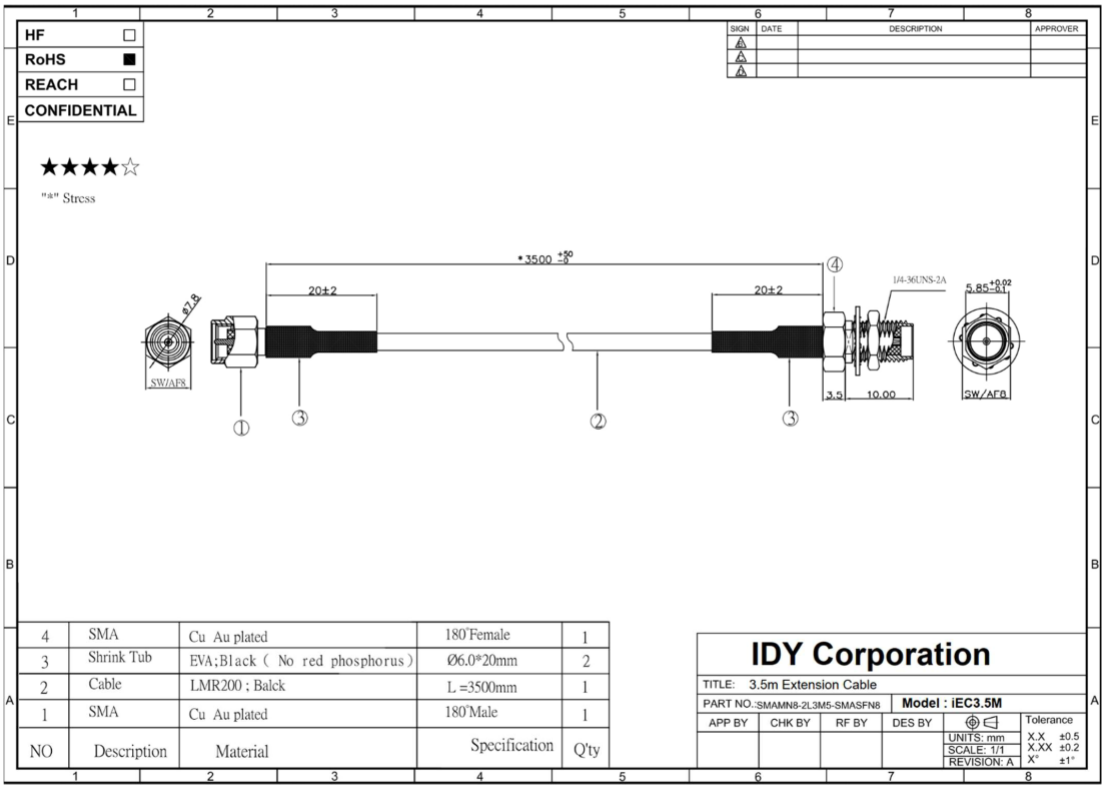
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4. S Parameter Test Data



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5. Mechanical and Packing Drawing



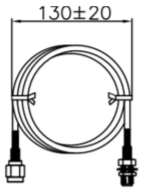
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PACKING CRITERION

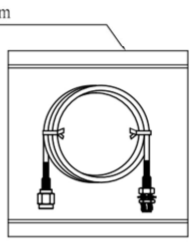
Date:2025.09.10

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

一

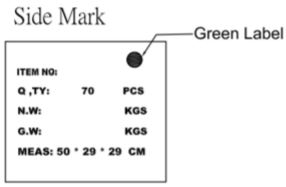


二

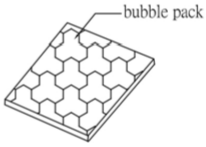


1PCS/per Bag

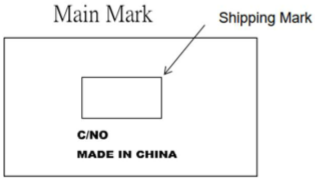
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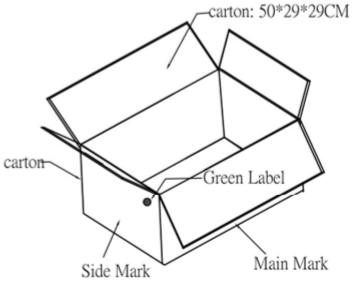


四



五





70pcs per Carton

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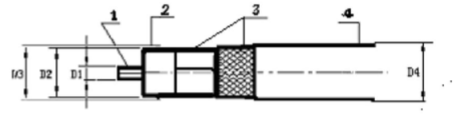
6. Material Description and RoHS Test Report

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			裸銅	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

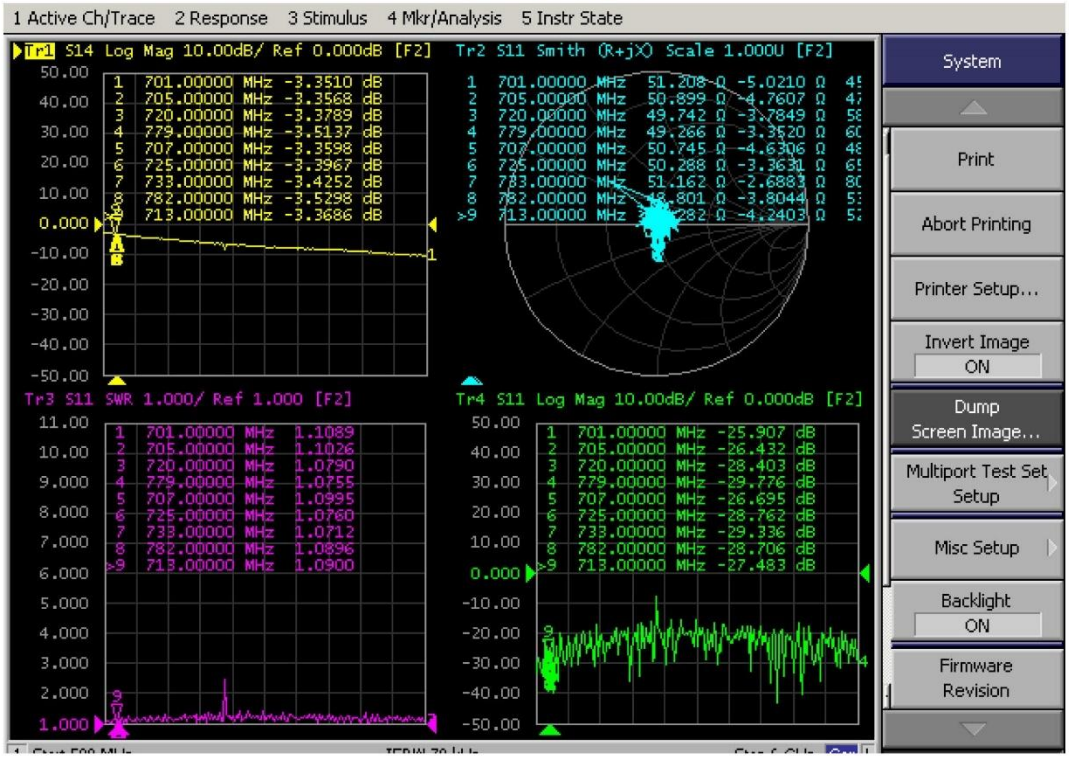
Test Items		Test Condition and Procedure	Requirements	Result
C1	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
C2	Insertion Loss	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
M4	Pull Test	Holding 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

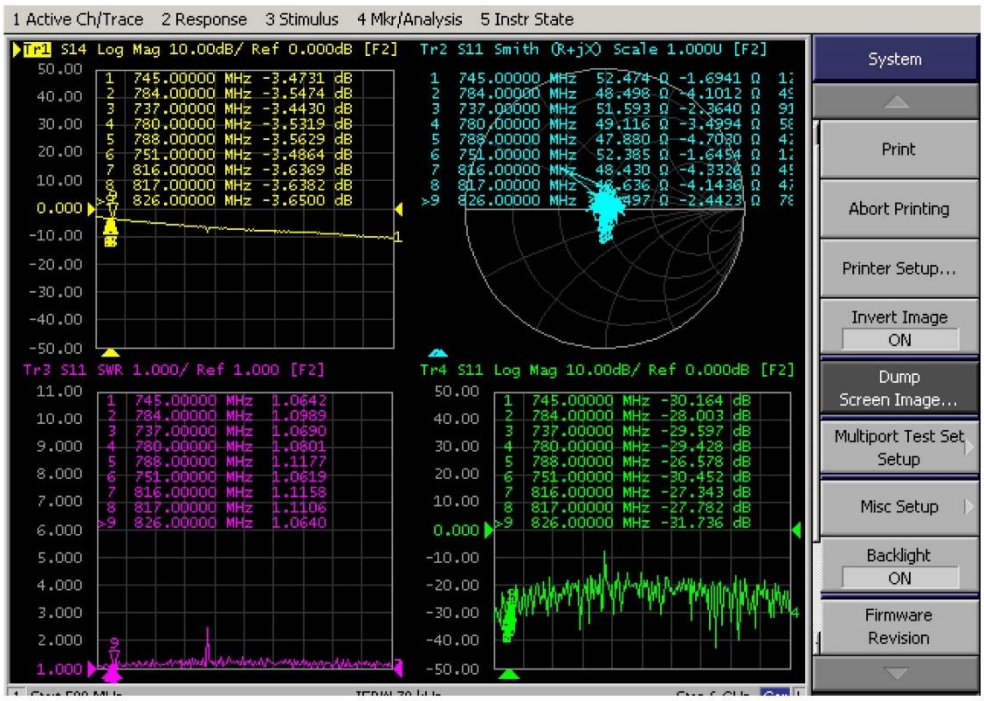
701~713MHz



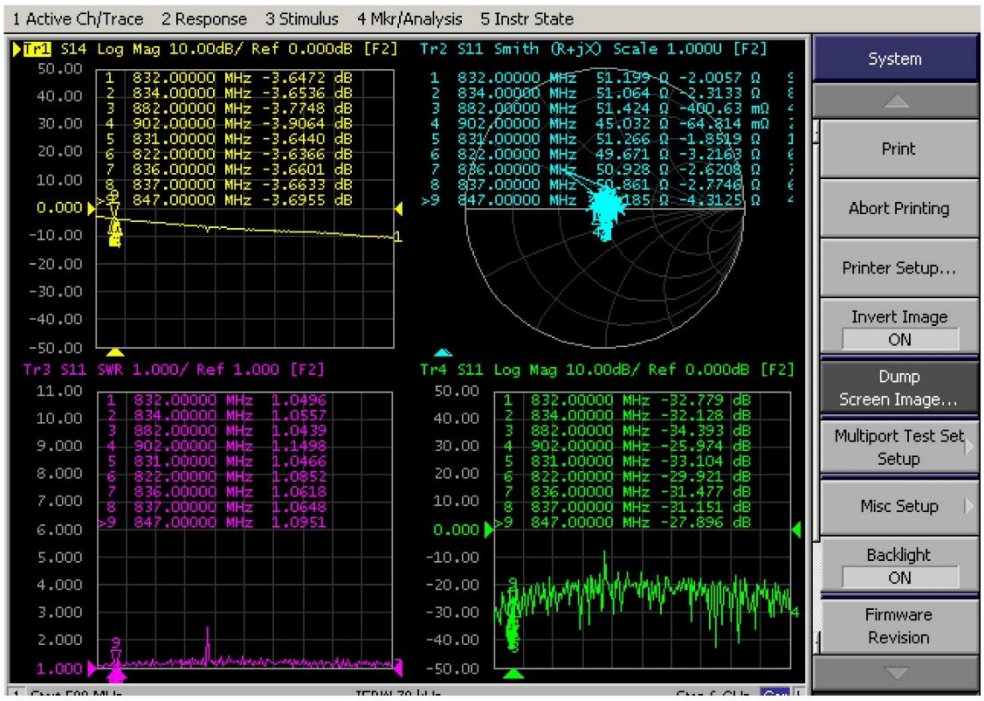
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Product Number: iEC12M
Product Name: Coaxial Cable

745~826MHz



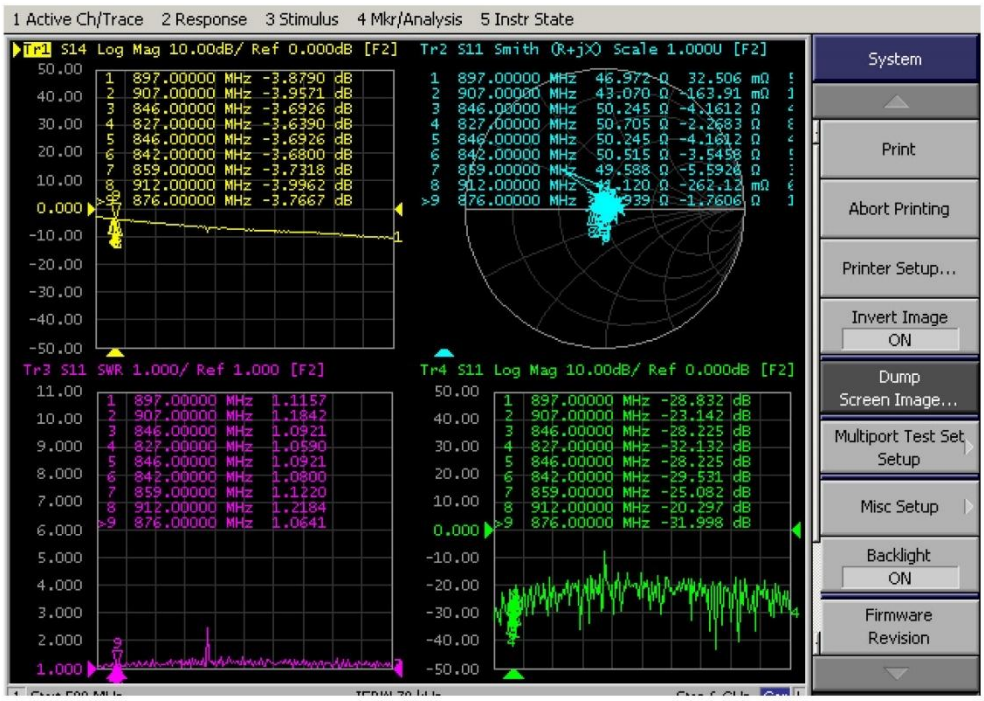
832~847MHz



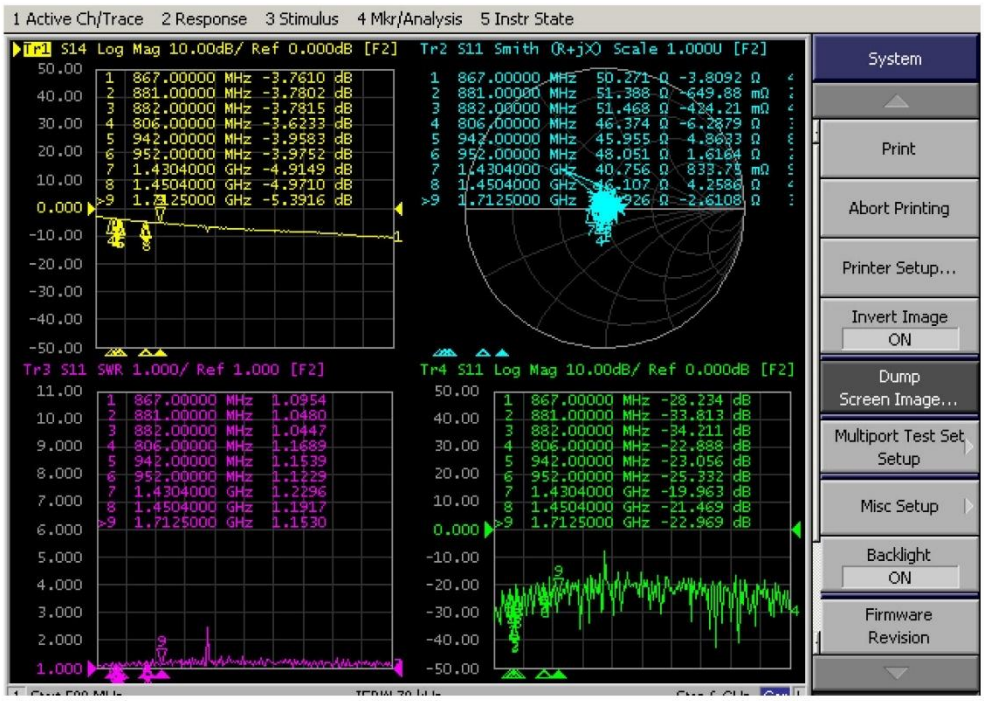
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Product Number: iEC12M
Product Name: Coaxial Cable

876~897MHz



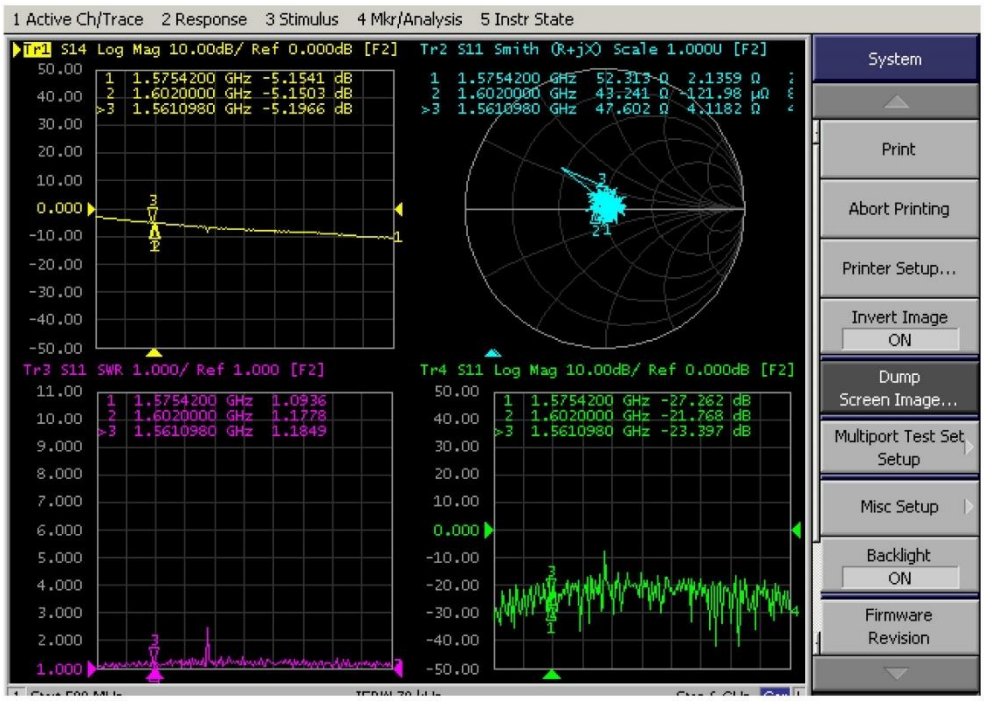
867~1712MHz



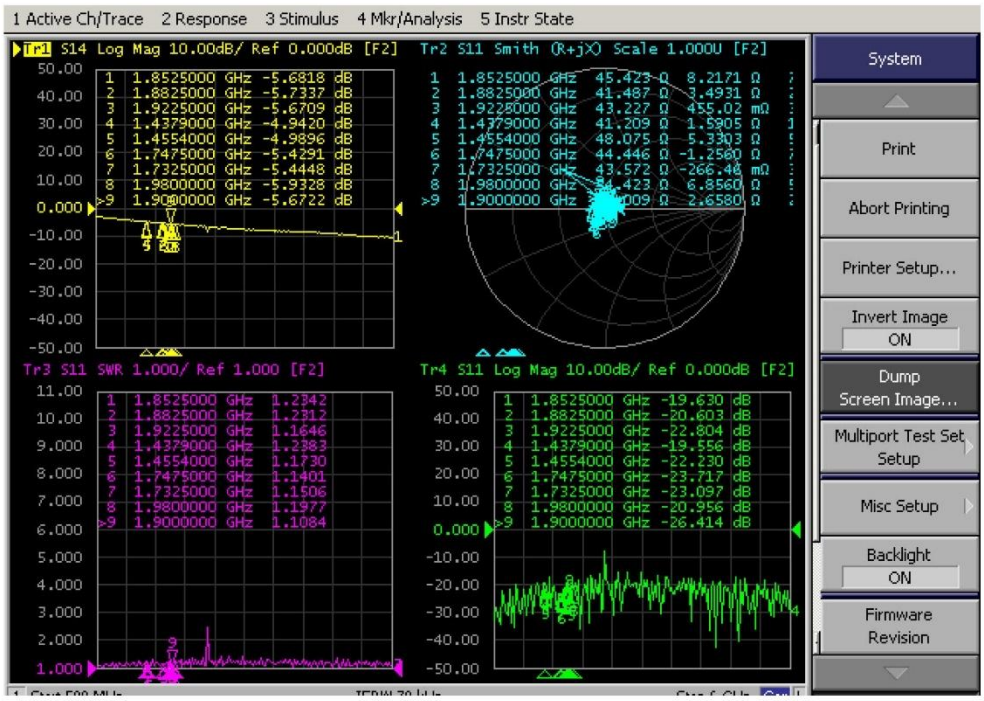
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Product Number: iEC12M
Product Name: Coaxial Cable

1575~1561MHz



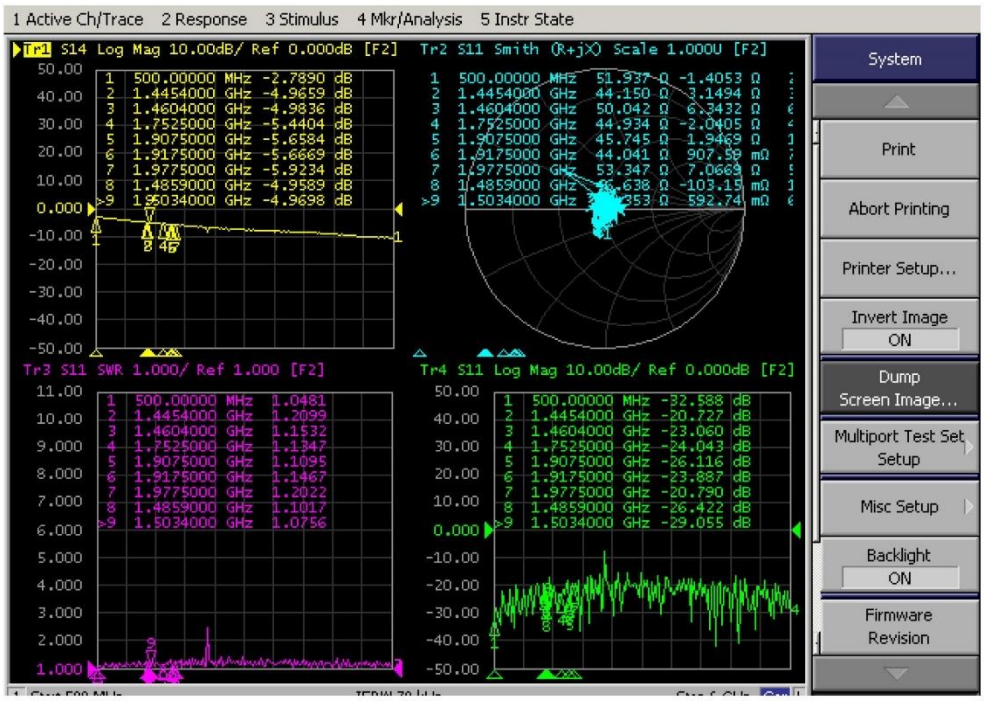
1852~1900MHz



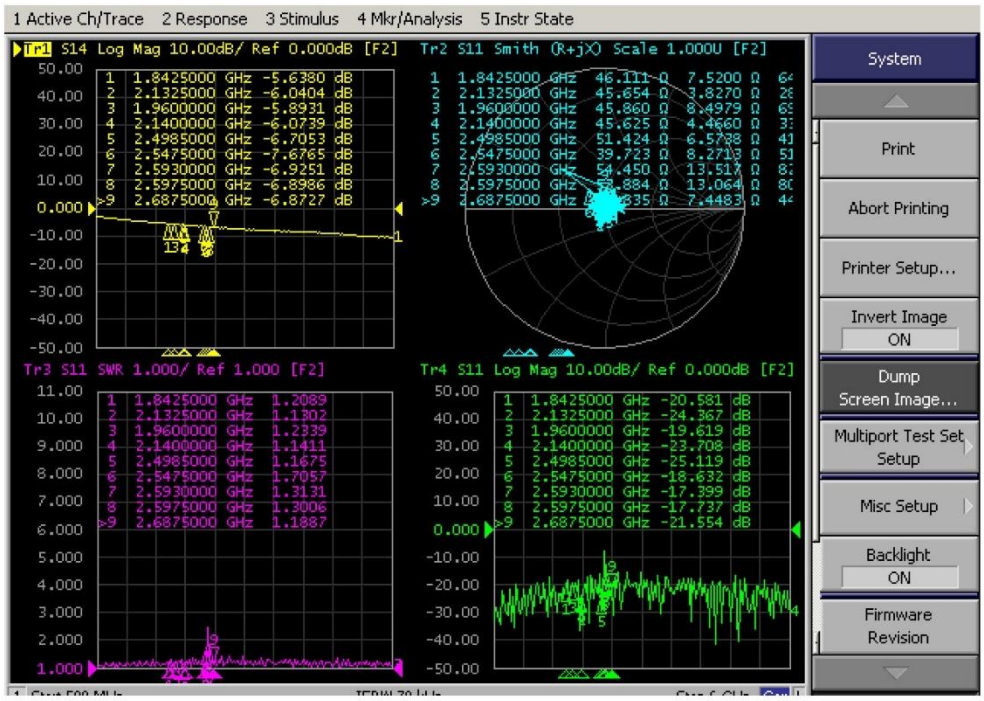
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Product Number: iEC12M
Product Name: Coaxial Cable

1445~1977MHz



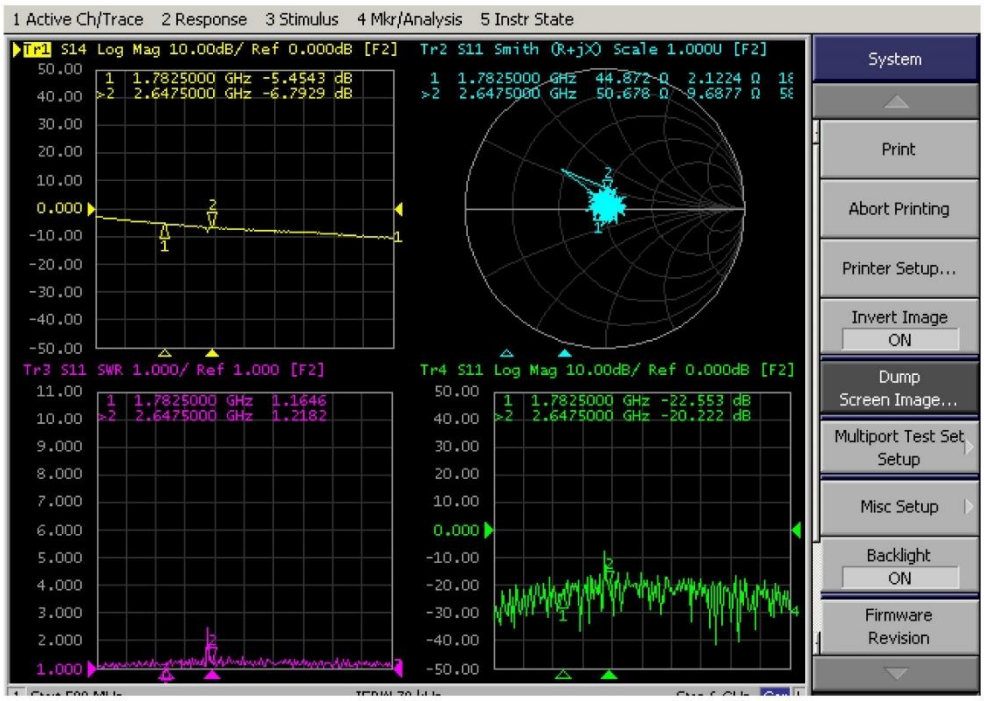
1842~2687MHz



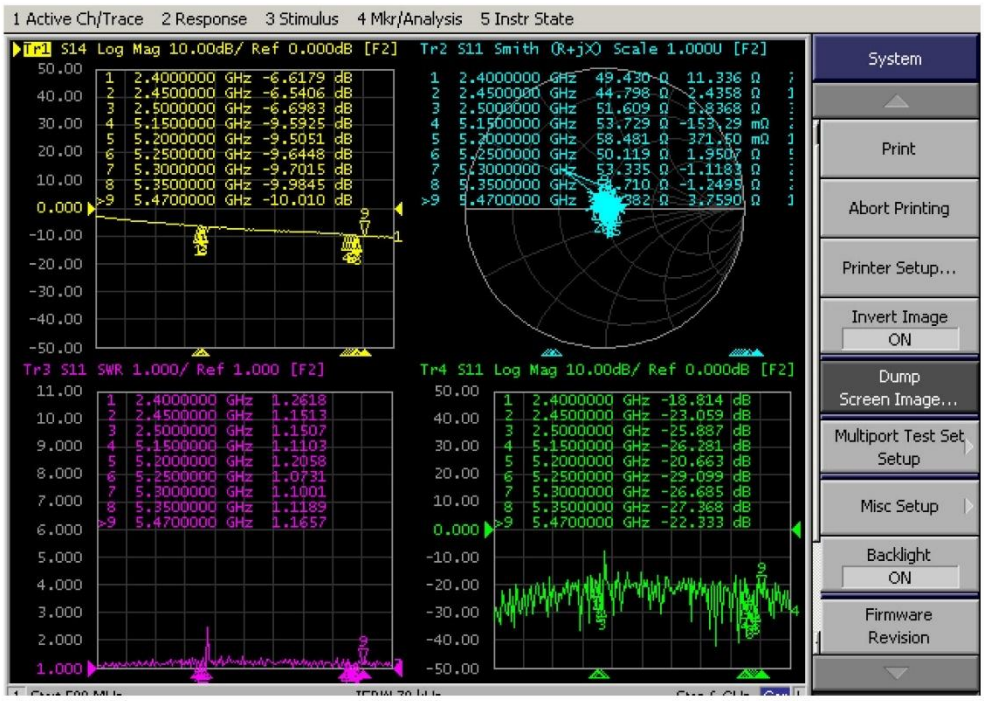
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Product Number: iEC12M
Product Name: Coaxial Cable

1782~2647MHz



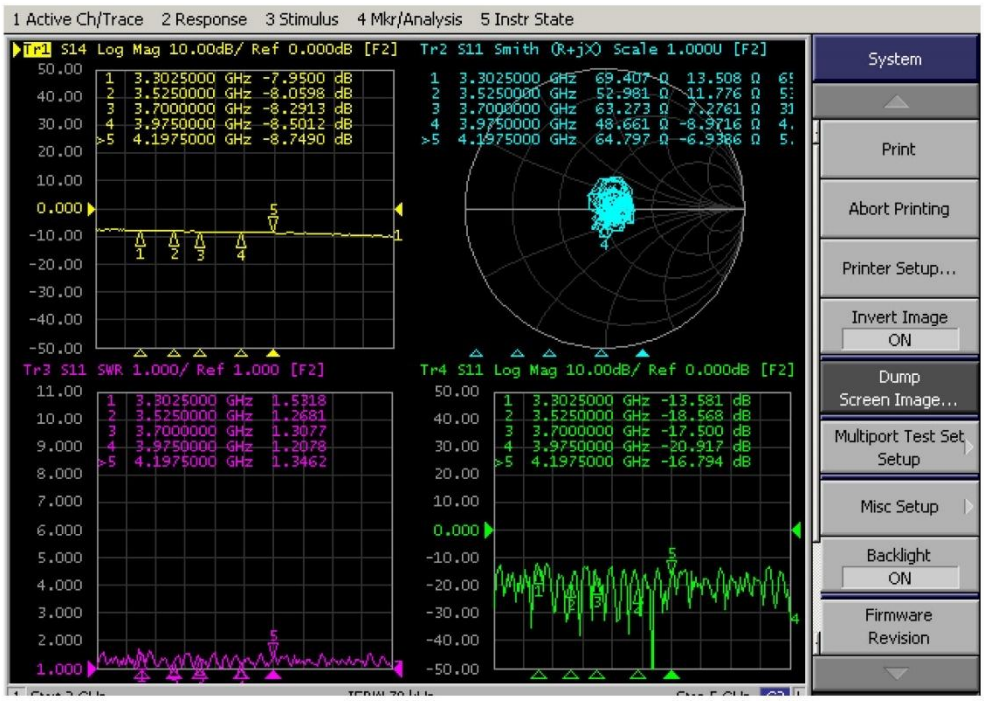
2400~5470MHz



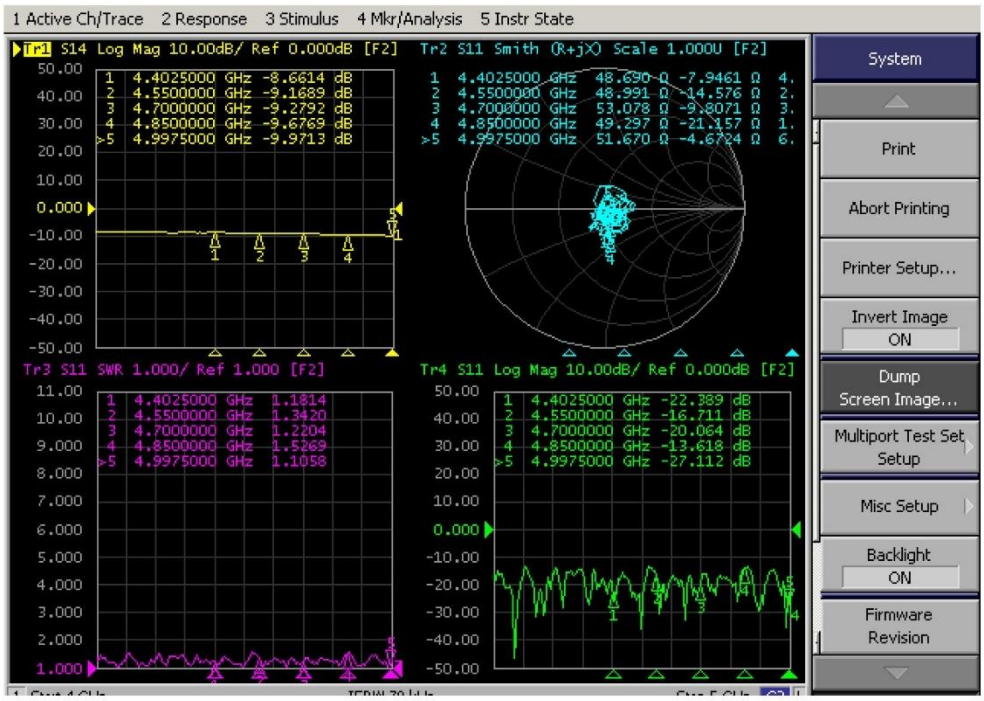
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Product Number: iEC12M
Product Name: Coaxial Cable

3302~4197 MHz



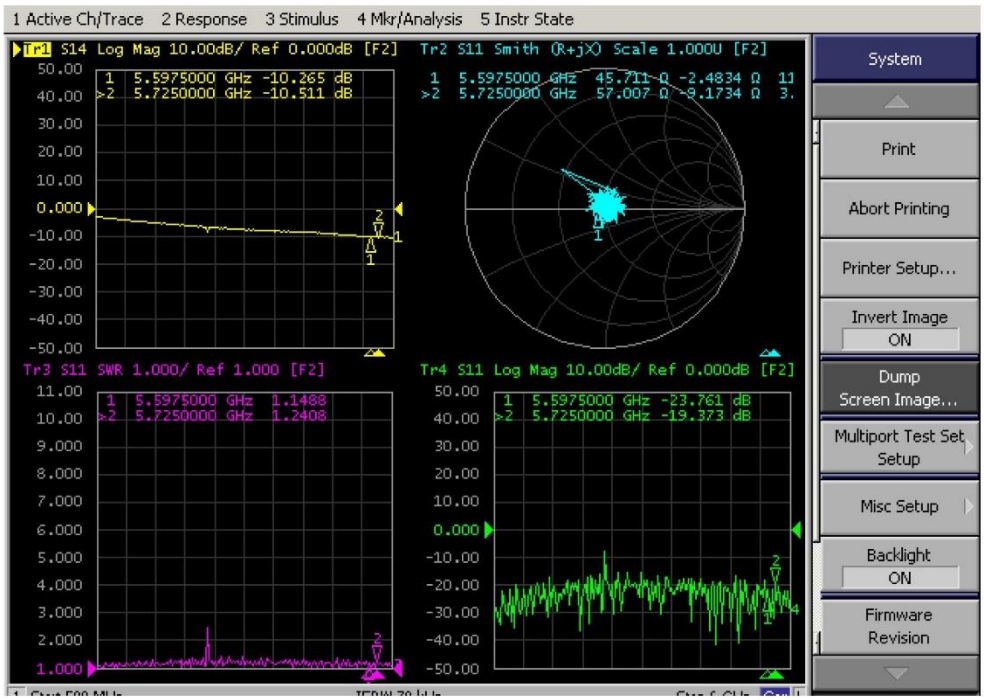
4402~4997 MHz



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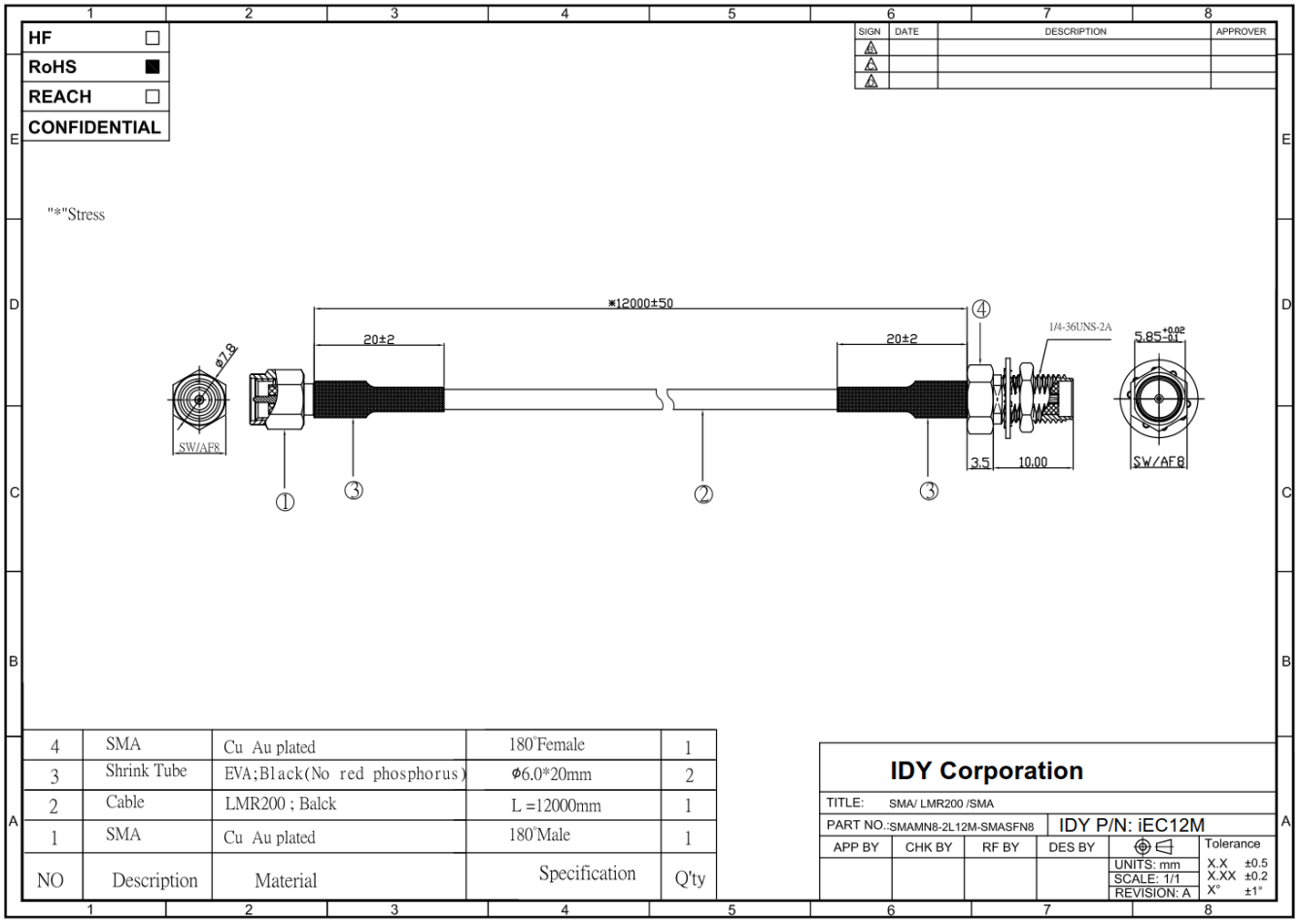
Product Number: iEC12M
Product Name: Coaxial Cable

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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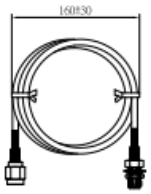
＜iEC12M Packaging Specification＞

Product packaging specification

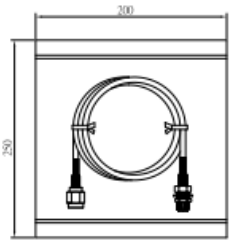
Date：2021.08.05 IDY P/N: iEC12M page: 1 of 1

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

1.



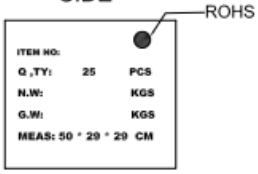
2.



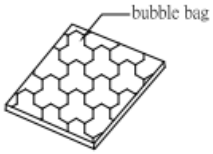
1 PCS / BAG

3.

SIDE

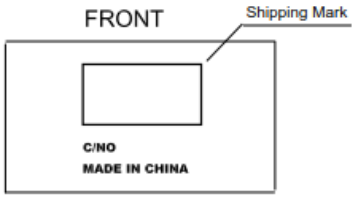


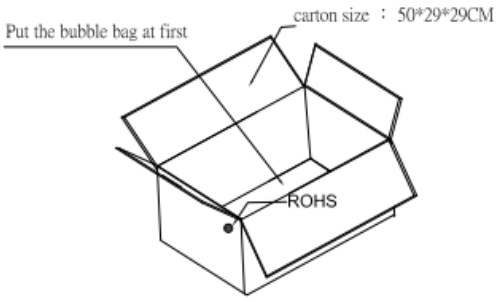
4.



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：_____

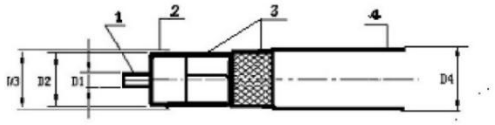
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＜iEC12M Cable Specification＞

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. 005㎜		
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

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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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