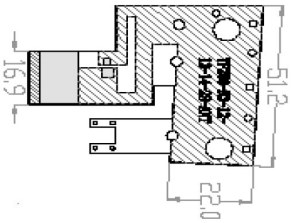
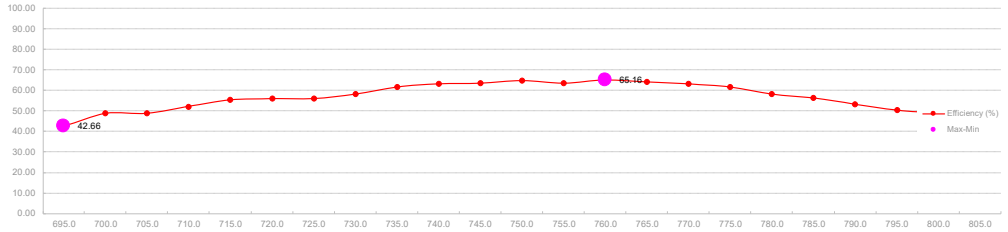
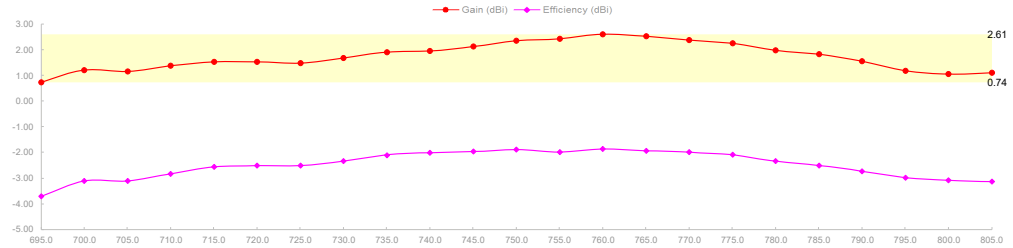
天频智能

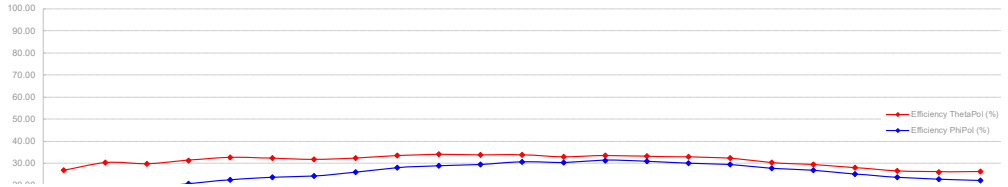



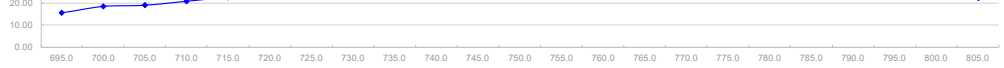

## Dimension--mm

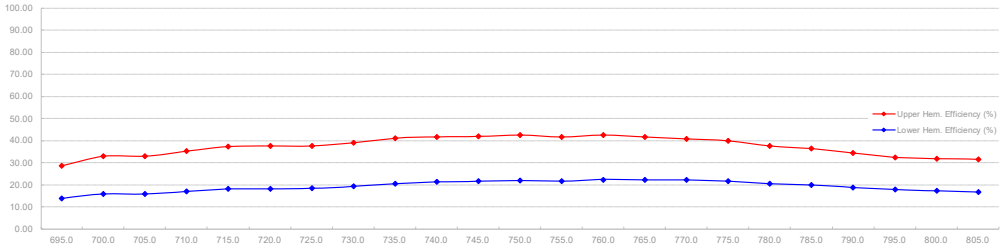
| Frequency ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency (MHz) | 695.0 | 700.0 | 705.0 | 710.0 | 715.0 | 720.0 | 725.0 | 730.0 | 735.0 | 740.0 | 745.0 | 750.0 | 755.0 | 760.0 | 765.0 | 770.0 | 775.0 | 780.0 | 785.0 | 790.0 | 795.0 | 800.0 | 805.0 |
| Efficiency (dBi) | -3.70 | -3.10 | -3.10 | -2.82 | -2.55 | -2.51 | -2.51 | -2.33 | -2.09 | -1.99 | -1.96 | -1.89 | -1.97 | -1.86 | -1.92 | -1.99 | -2.09 | -2.34 | -2.49 | -2.72 | -2.97 | -3.08 | -3.13 |
| Gain (dBi) | 0.74 | 1.22 | 1.17 | 1.38 | 1.54 | 1.53 | 1.49 | 1.68 | 1.92 | 1.96 | 2.13 | 2.35 | 2.43 | 2.61 | 2.53 | 2.39 | 2.25 | 1.98 | 1.83 | 1.55 | 1.20 | 1.05 | 1.12 |
| Efficiency (%) | 42.66 | 48.93 | 48.97 | 52.25 | 55.55 | 56.04 | 56.16 | 58.43 | 61.77 | 63.20 | 63.66 | 64.78 | 63.56 | 65.16 | 64.25 | 63.24 | 61.79 | 58.36 | 56.31 | 53.48 | 50.44 | 49.17 | 48.59 |
| Directivity (dB) | 4.44 | 4.33 | 4.27 | 4.20 | 4.10 | 4.05 | 4.00 | 4.02 | 4.01 | 3.96 | 4.09 | 4.24 | 4.40 | 4.47 | 4.45 | 4.38 | 4.34 | 4.32 | 4.32 | 4.27 | 4.17 | 4.14 | 4.26 |
| Peak Gain Position (Theta) | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 |
| Peak Gain Position (Phi) | 240.00 | 240.00 | 240.00 | 240.00 | 240.00 | 180.00 | 180.00 | 210.00 | 210.00 | 210.00 | 270.00 | 270.00 | 270.00 | 270.00 | 270.00 | 270.00 | 270.00 | 270.00 | 270.00 | 270.00 | 270.00 | 180.00 | 180.00 |
| Efficiency ThetaPol (%) | 27.05 | 30.43 | 29.91 | 31.46 | 32.81 | 32.37 | 31.78 | 32.45 | 33.69 | 34.11 | 34.00 | 34.04 | 33.03 | 33.70 | 33.22 | 32.98 | 32.35 | 30.44 | 29.43 | 28.14 | 26.70 | 26.23 | 26.35 |
| Efficiency PhiPol (%) | 15.61 | 18.50 | 19.06 | 20.79 | 22.74 | 23.67 | 24.38 | 25.98 | 28.09 | 29.10 | 29.66 | 30.73 | 30.53 | 31.46 | 31.04 | 30.26 | 29.44 | 27.92 | 26.88 | 25.34 | 23.74 | 22.94 | 22.24 |
| Upper Hem. Efficiency (%) | 28.64 | 32.96 | 33.05 | 35.24 | 37.41 | 37.72 | 37.74 | 39.13 | 41.16 | 41.89 | 42.02 | 42.66 | 41.81 | 42.70 | 41.86 | 41.00 | 40.00 | 37.78 | 36.43 | 34.56 | 32.58 | 31.90 | 31.70 |
| Lower Hem. Efficiency (%) | 14.03 | 15.97 | 15.92 | 17.01 | 18.14 | 18.32 | 18.43 | 19.30 | 20.61 | 21.32 | 21.65 | 22.11 | 21.75 | 22.46 | 22.39 | 22.25 | 21.79 | 20.58 | 19.88 | 18.93 | 17.85 | 17.27 | 16.89 |
| T90(H)圆度 | 5.89 | 6.40 | 6.88 | 7.07 | 7.18 | 7.35 | 7.47 | 7.45 | 7.65 | 7.88 | 8.37 | 9.00 | 9.48 | 9.76 | 10.02 | 10.29 | 10.60 | 10.50 | 10.00 | 9.04 | 8.04 | 7.43 | 6.79 |
| Gain 15deg (dBi) | | | | | | | | | | | | | | | | | | | | | | | |
| E1(XZ)波瓣宽度 | 79.00 | 76.00 | 72.00 | 70.00 | 70.00 | 70.00 | 73.00 | 74.00 | 76.00 | 79.00 | 84.00 | 89.00 | 89.00 | 89.00 | 91.00 | 92.00 | 91.00 | 88.00 | 82.00 | 77.00 | 74.00 | 72.00 | 70.00 |
| E1(XZ)前后比 | 4.35 | 4.50 | 4.67 | 4.92 | 5.11 | 5.33 | 5.61 | 5.89 | 5.85 | 5.60 | 5.24 | 4.77 | 4.33 | 4.09 | 4.08 | 4.33 | 4.62 | 4.79 | 4.95 | 5.18 | 5.11 | 5.25 | 5.40 |
| E2(YZ)波瓣宽度 | 106.00 | 105.00 | 102.00 | 102.00 | 102.00 | 103.00 | 104.00 | 104.00 | 101.00 | 98.00 | 94.00 | 89.00 | 84.00 | 83.00 | 84.00 | 87.00 | 87.00 | 86.00 | 86.00 | 84.00 | 84.00 | 86.00 | 88.00 |
| E2(YZ)前后比 | 5.42 | 5.34 | 5.38 | 5.44 | 5.46 | 5.53 | 5.65 | 5.62 | 5.51 | 5.50 | 5.66 | 5.90 | 6.25 | 6.49 | 6.59 | 6.45 | 6.19 | 6.20 | 6.33 | 6.41 | 6.48 | 6.62 | 6.89 |
| 最大增益处轴比(P) | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| 仰角10度最差(大)轴比(P) | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| Hc(XY)波瓣宽度 | 153.00 | 154.00 | 155.00 | 159.00 | 162.00 | 163.00 | 163.00 | 164.00 | 163.00 | 162.00 | 158.00 | 153.00 | 152.00 | 154.00 | 156.00 | 158.00 | 160.00 | 163.00 | 166.00 | 171.00 | 174.00 | 175.00 | 176.00 |
| Hc(XY)前后比 | 1.55 | 1.54 | 1.46 | 1.24 | 1.02 | 0.96 | 0.96 | 0.88 | 0.86 | 0.88 | 1.01 | 1.28 | 1.18 | 0.91 | 0.66 | 0.51 | 0.53 | 0.43 | 0.23 | 0.11 | 0.08 | 0.12 | 0.05 |
| Empty | | | | | | | | | | | | | | | | | | | | | | | |



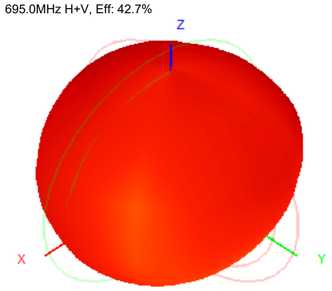



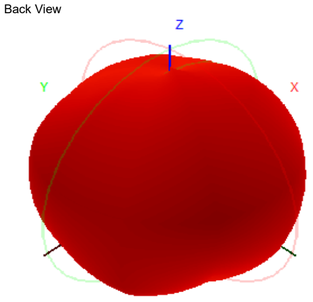

20.00
10.00
0.00
695.0
700.0
705.0
710.0
715.0
720.0
725.0
730.0
735.0
740.0
745.0
750.0
755.0
760.0
765.0
770.0
775.0
780.0
785.0
790.0
795.0
800.0
805.0

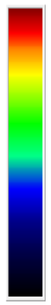

100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
695.0
700.0
705.0
710.0
715.0
720.0
725.0
730.0
735.0
740.0
745.0
750.0
755.0
760.0
765.0
770.0
775.0
780.0
785.0
790.0
795.0
800.0
805.0
Upper Hem. Efficiency (%)
Lower Hem. Efficiency (%)

695.0MHz H+V, Eff: 42.7%

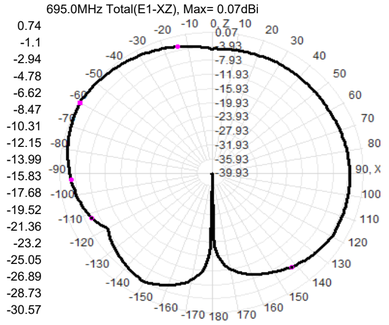



Back View

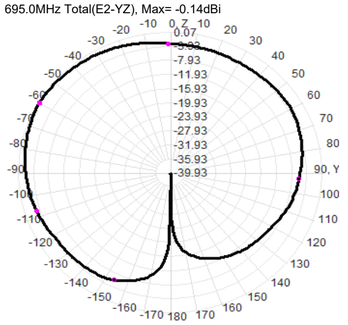


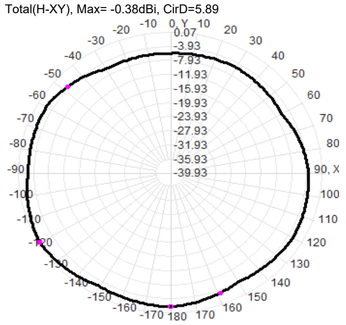

695.0MHz Total(E1-XZ), Max= 0.07dBi



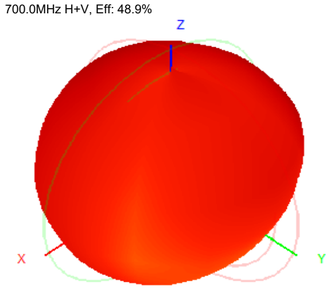

695.0MHz Total(E2-YZ), Max= -0.14dBi



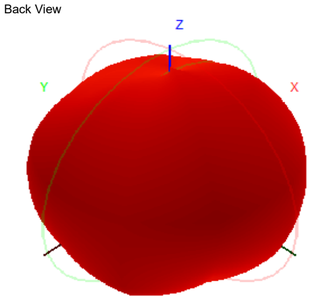

Total(H-XY), Max= -0.38dBi, CirD=5.89

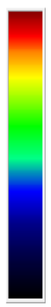



700.0MHz H+V, Eff: 48.9%

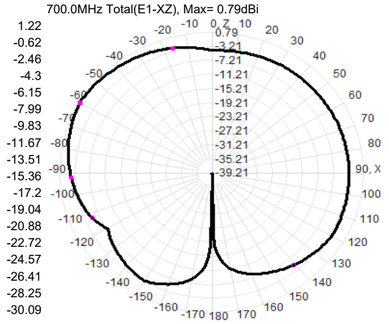



Back View

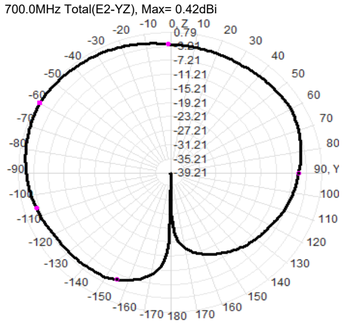


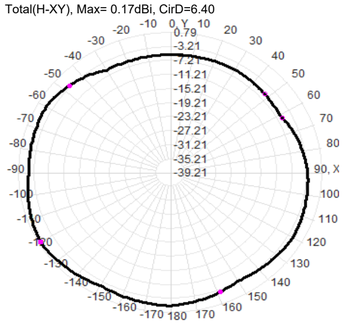

700.0MHz Total(E1-XZ), Max= 0.79dBi



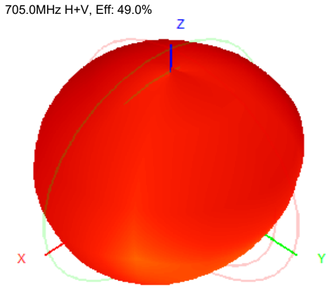

700.0MHz Total(E2-YZ), Max= 0.42dBi



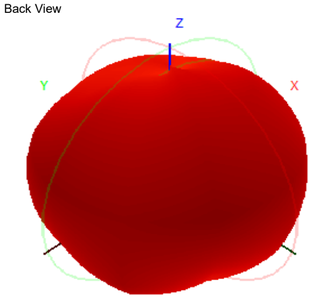

Total(H-XY), Max= 0.17dBi, CirD=6.40

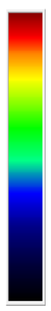



705.0MHz H+V, Eff: 49.0%

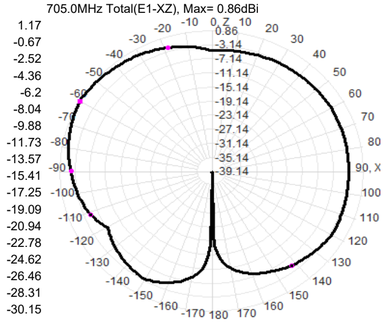



Back View

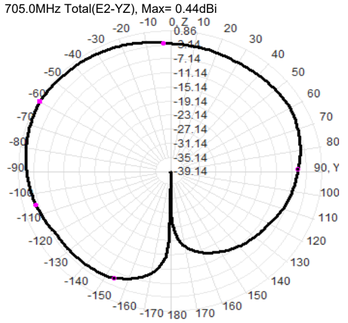


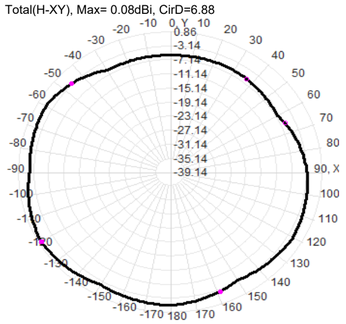

705.0MHz Total(E1-XZ), Max= 0.86dBi



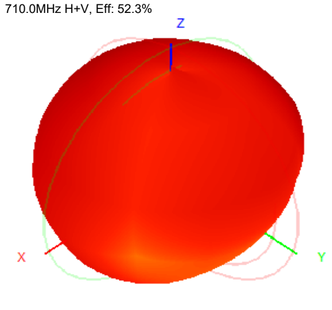

705.0MHz Total(E2-YZ), Max= 0.44dBi



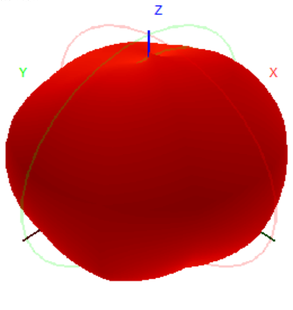

Total(H-XY), Max= 0.08dBi, CirD=6.88

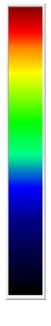



710.0MHz H+V, Eff: 52.3%

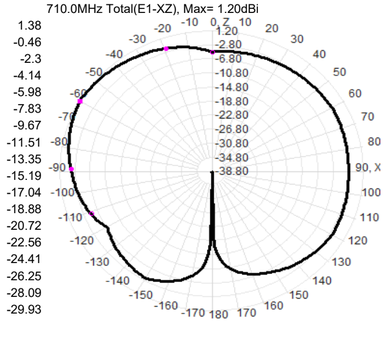



Back View

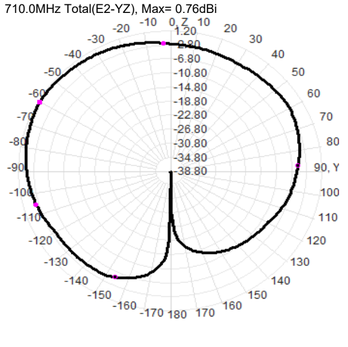


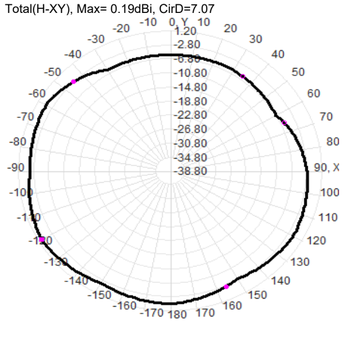

710.0MHz Total(E1-XZ), Max= 1.20dBi



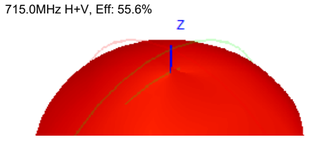

710.0MHz Total(E2-YZ), Max= 0.76dBi



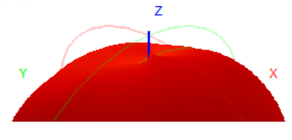

Total(H-XY), Max= 0.19dBi, CirD=7.07




715.0MHz H+V, Eff: 55.6%

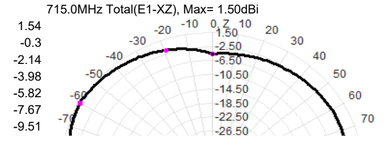



Back View

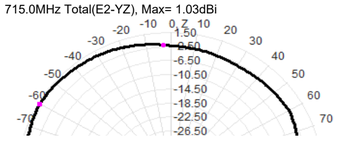




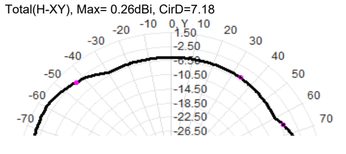
715.0MHz Total(E1-XZ), Max= 1.50dBi

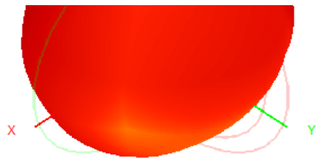


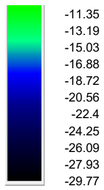

715.0MHz Total(E2-YZ), Max= 1.03dBi

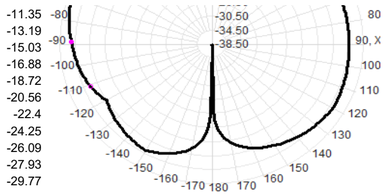


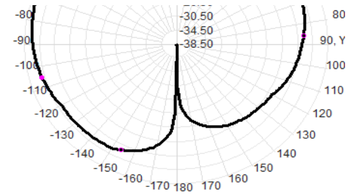

Total(H-XY), Max= 0.26dBi, CirD=7.18

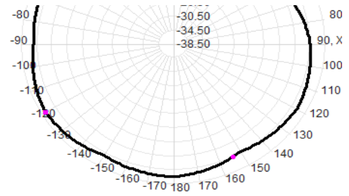




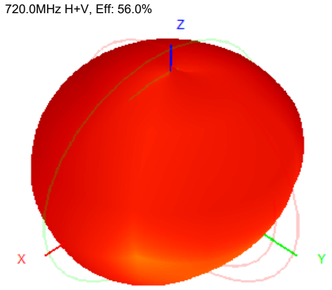



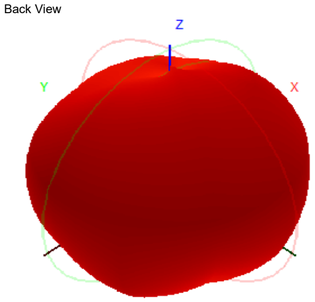



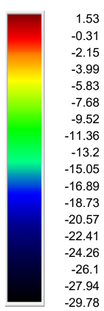




720.0MHz H+V, Eff: 56.0%

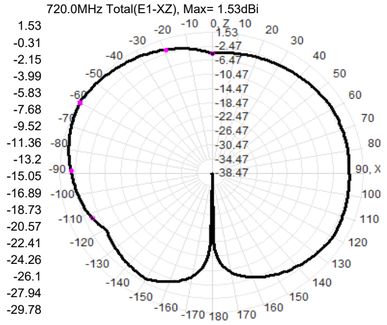



Back View

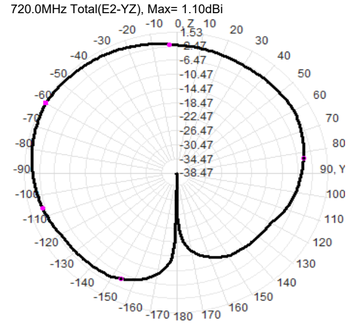


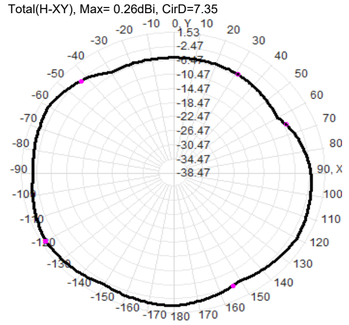

720.0MHz Total(E1-XZ), Max= 1.53dBi



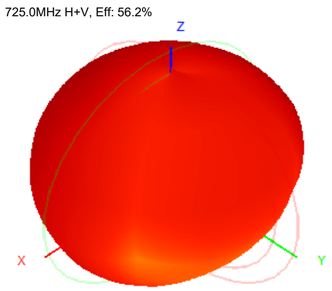

720.0MHz Total(E2-YZ), Max= 1.10dBi



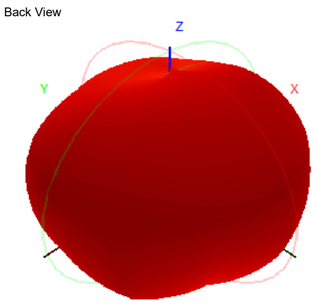

Total(H-XY), Max= 0.26dBi, CirD=7.35

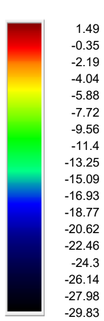



725.0MHz H+V, Eff: 56.2%

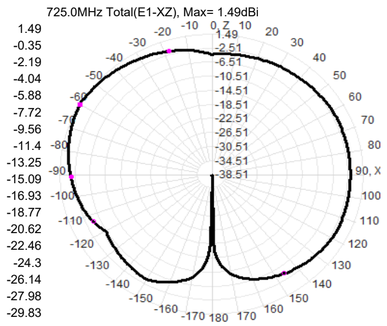



Back View

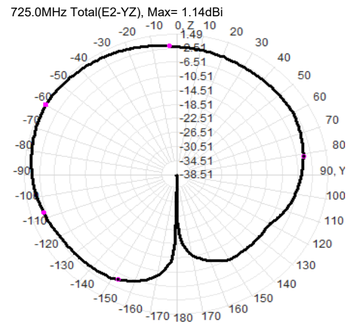


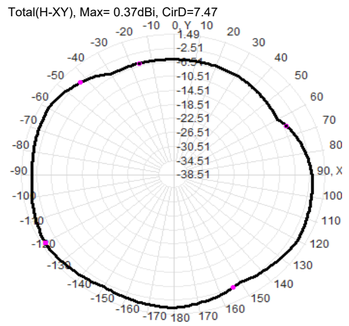

725.0MHz Total(E1-XZ), Max= 1.49dBi



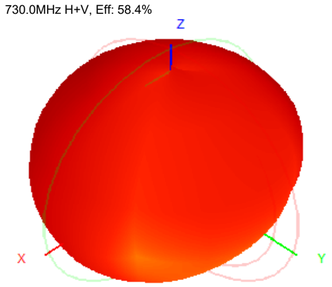

725.0MHz Total(E2-YZ), Max= 1.14dBi



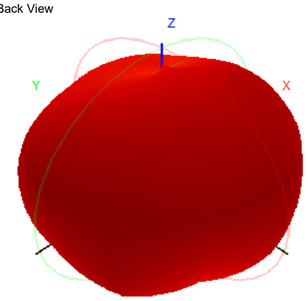

Total(H-XY), Max= 0.37dBi, CirD=7.47

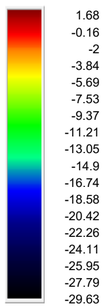



730.0MHz H+V, Eff: 58.4%

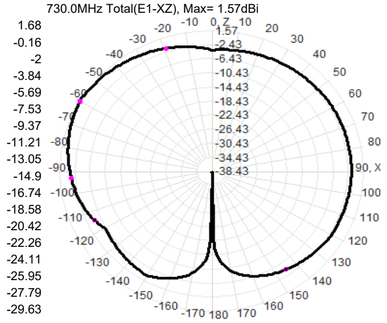



Back View

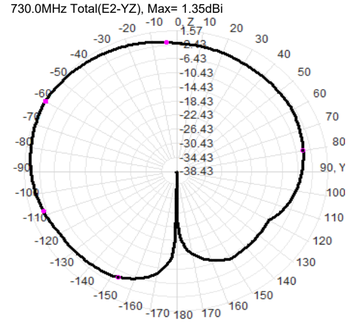


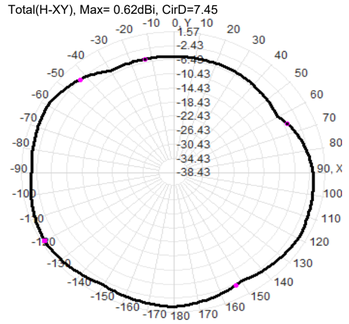

730.0MHz Total(E1-XZ), Max= 1.57dBi



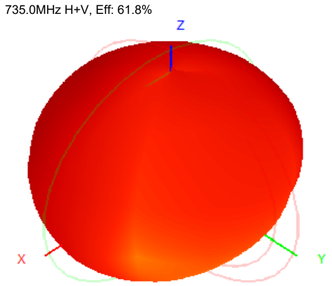

730.0MHz Total(E2-YZ), Max= 1.35dBi



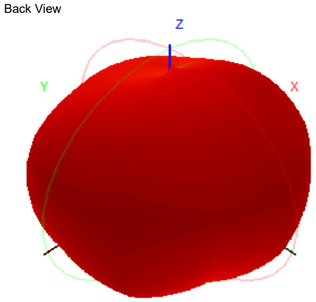

Total(H-XY), Max= 0.62dBi, CirD=7.45

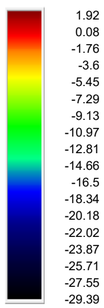



735.0MHz H+V, Eff: 61.8%

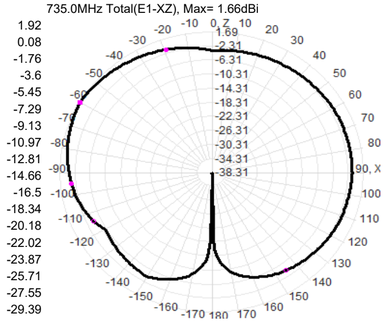



Back View

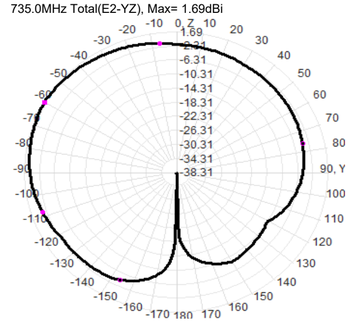


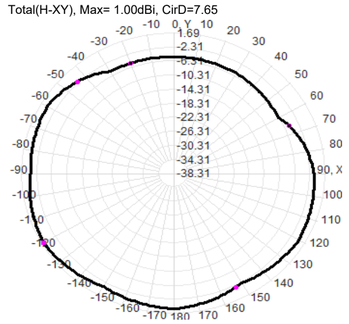

735.0MHz Total(E1-XZ), Max= 1.66dBi



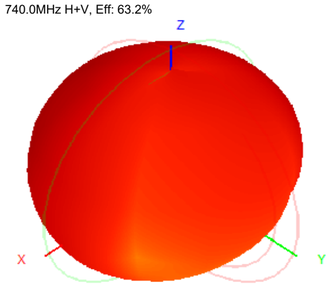

735.0MHz Total(E2-YZ), Max= 1.69dBi



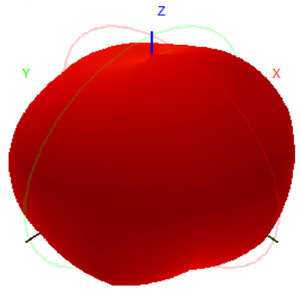

Total(H-XY), Max= 1.00dBi, CirD=7.65



740.0MHz H+V, Eff: 63.2%

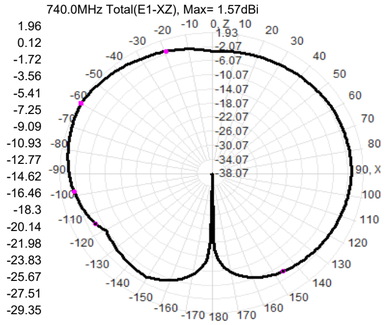



Back View

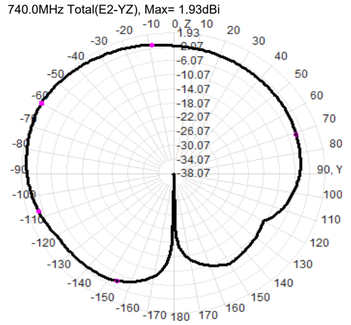




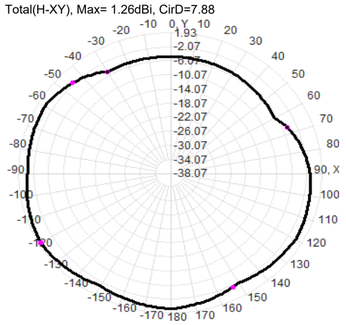
740.0MHz Total(E1-XZ), Max= 1.57dBi



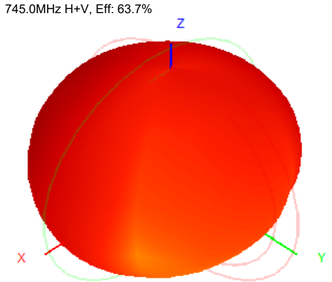
740.0MHz Total(E2-YZ), Max= 1.93dBi



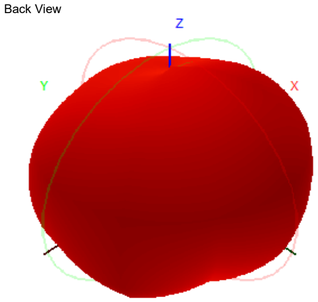
Total(H-XY), Max= 1.26dBi, CirD=7.88

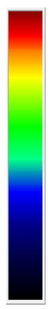


745.0MHz H+V, Eff: 63.7%

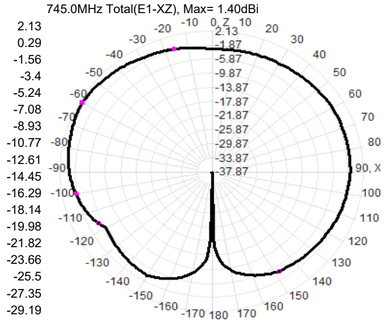



Back View

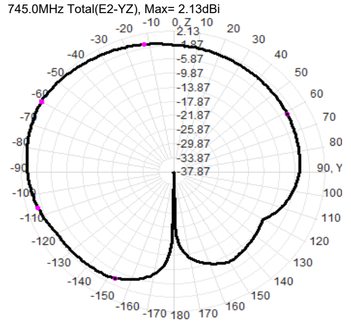


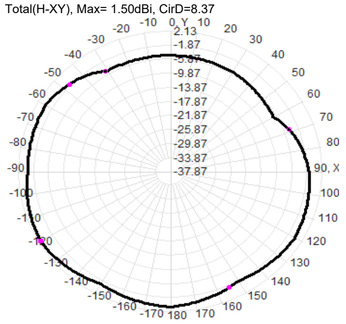

745.0MHz Total(E1-XZ), Max= 1.40dBi



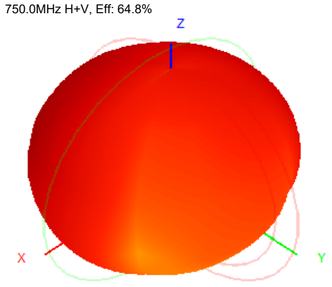
745.0MHz Total(E2-YZ), Max= 2.13dBi



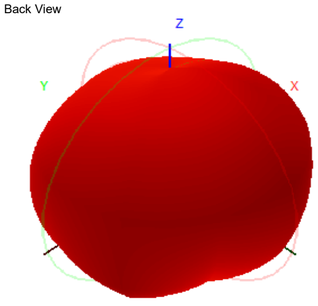
Total(H-XY), Max= 1.50dBi, CirD=8.37

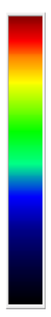


750.0MHz H+V, Eff: 64.8%

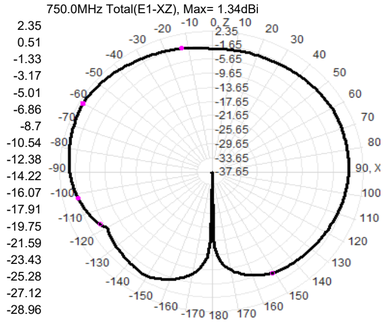



Back View

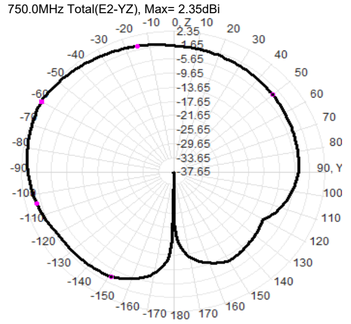


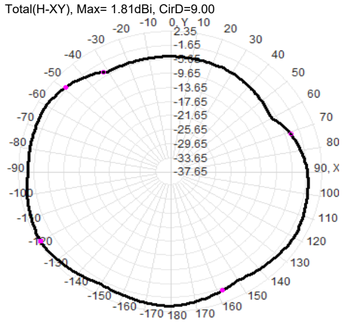

750.0MHz Total(E1-XZ), Max= 1.34dBi



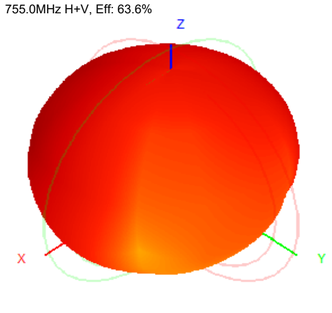
750.0MHz Total(E2-YZ), Max= 2.35dBi



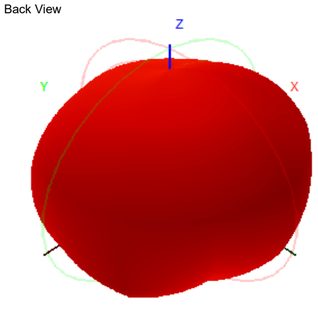
Total(H-XY), Max= 1.81dBi, CirD=9.00

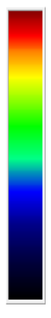


755.0MHz H+V, Eff: 63.6%

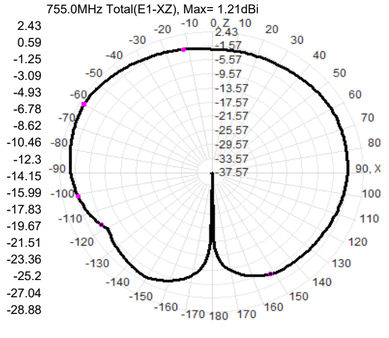



Back View

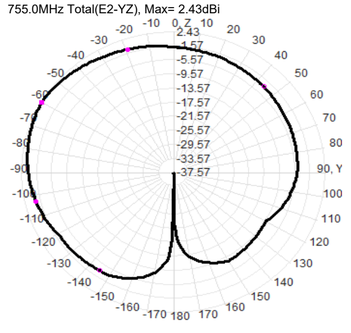


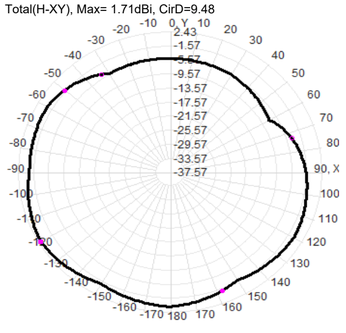

755.0MHz Total(E1-XZ), Max= 1.21dBi



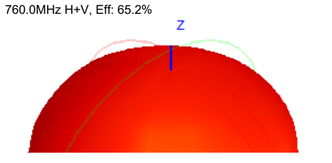
755.0MHz Total(E2-YZ), Max= 2.43dBi



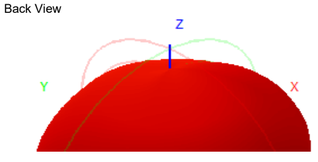
Total(H-XY), Max= 1.71dBi, CirD=9.48



760.0MHz H+V, Eff: 65.2%

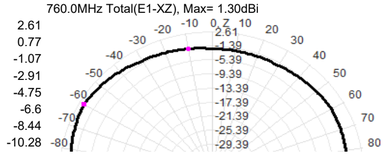



Back View

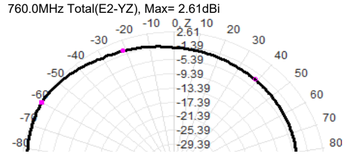




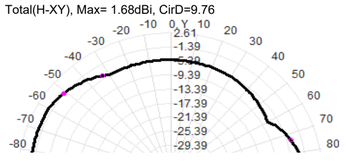
760.0MHz Total(E1-XZ), Max= 1.30dBi



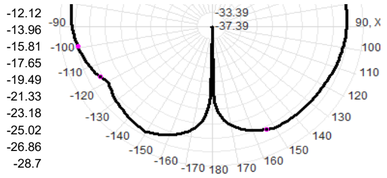
760.0MHz Total(E2-YZ), Max= 2.61dBi

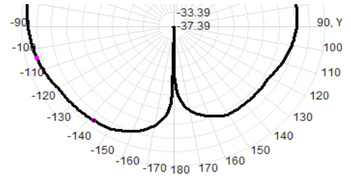


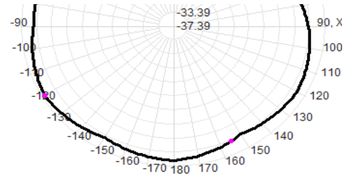
Total(H-XY), Max= 1.68dBi, CirD=9.76



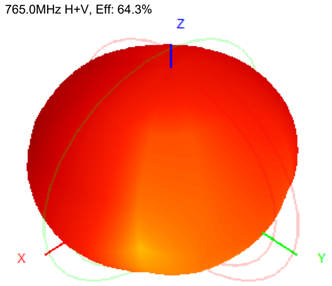




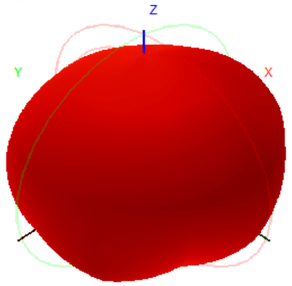



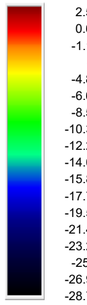




765.0MHz H+V, Eff: 64.3%

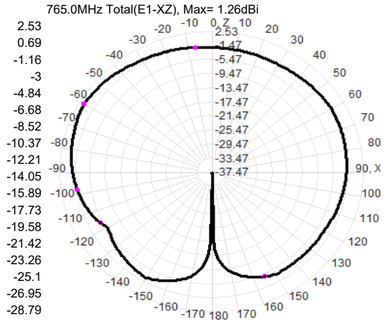



Back View

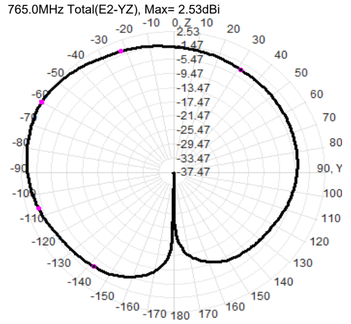


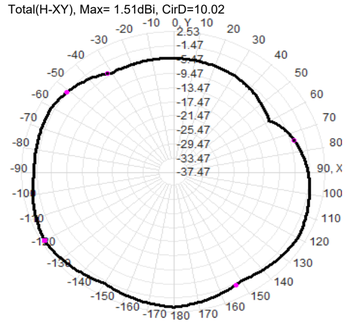

765.0MHz Total(E1-XZ), Max= 1.26dBi



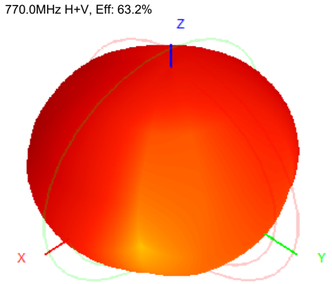

765.0MHz Total(E2-YZ), Max= 2.53dBi



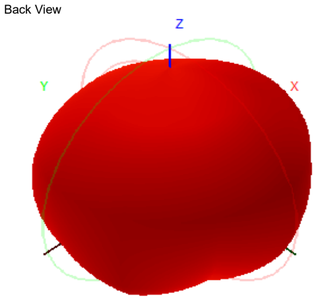

Total(H-XY), Max= 1.51dBi, CirD=10.02

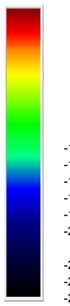



770.0MHz H+V, Eff: 63.2%

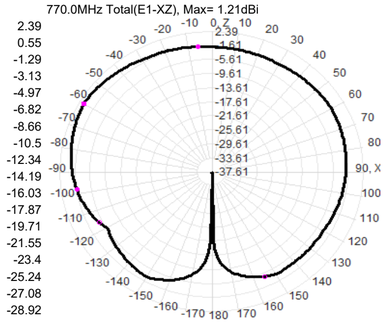



Back View

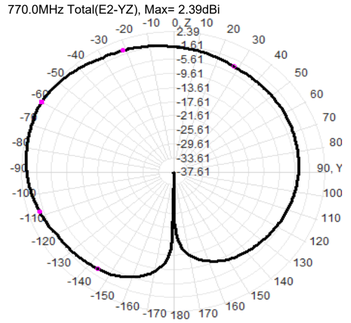


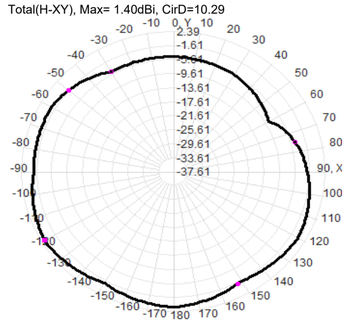

770.0MHz Total(E1-XZ), Max= 1.21dBi



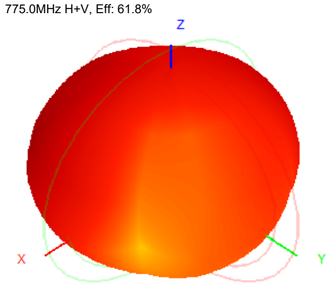

770.0MHz Total(E2-YZ), Max= 2.39dBi



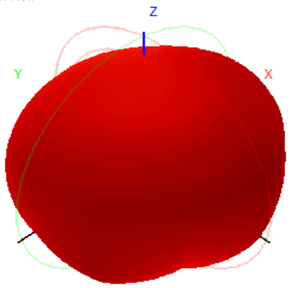

Total(H-XY), Max= 1.40dBi, CirD=10.29

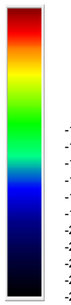



775.0MHz H+V, Eff: 61.8%

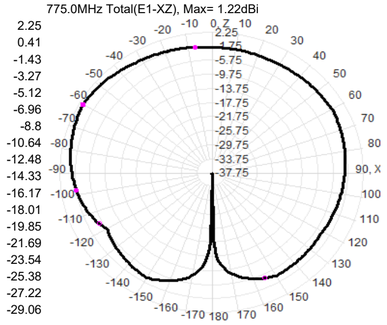



Back View

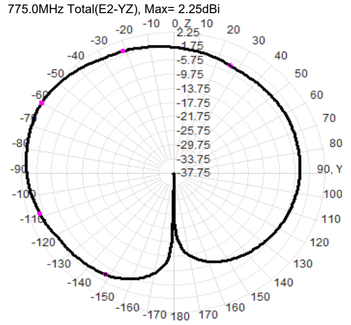


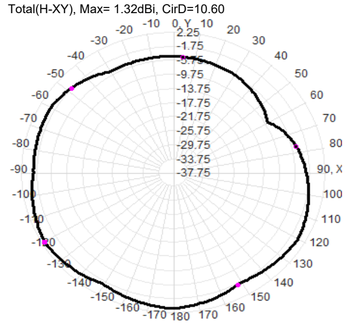

775.0MHz Total(E1-XZ), Max= 1.22dBi



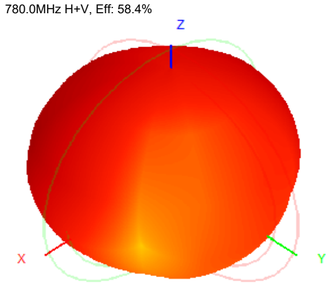

775.0MHz Total(E2-YZ), Max= 2.25dBi



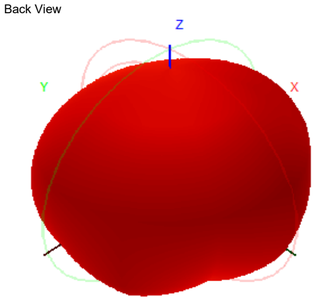

Total(H-XY), Max= 1.32dBi, CirD=10.60

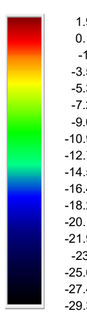



780.0MHz H+V, Eff: 58.4%

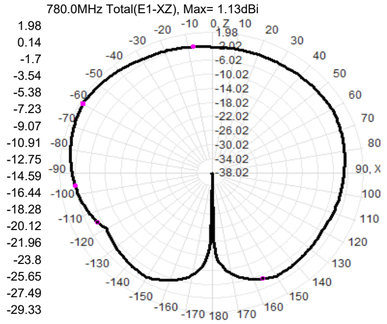



Back View

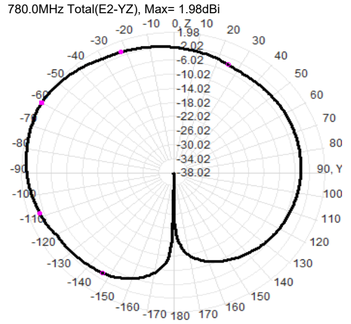


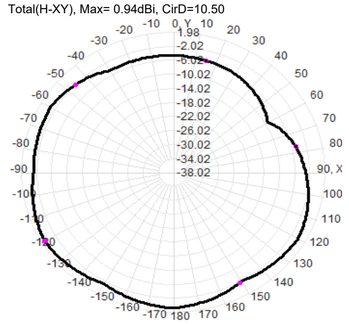

780.0MHz Total(E1-XZ), Max= 1.13dBi



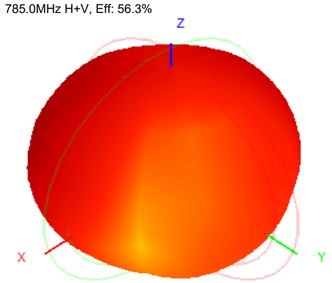

780.0MHz Total(E2-YZ), Max= 1.98dBi



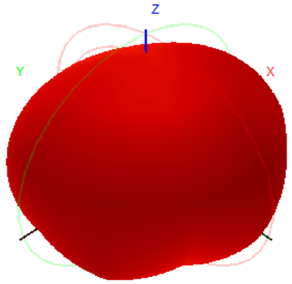

Total(H-XY), Max= 0.94dBi, CirD=10.50



785.0MHz H+V, Eff: 56.3%

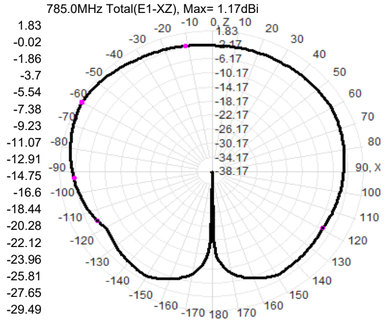



Back View

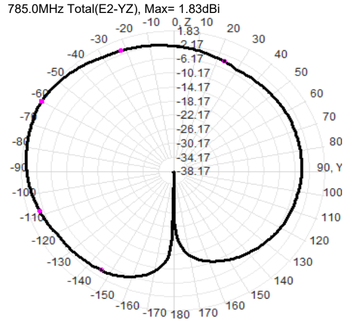




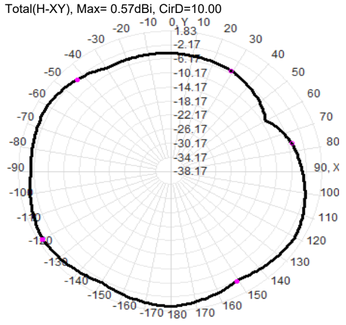
785.0MHz Total(E1-XZ), Max= 1.17dBi



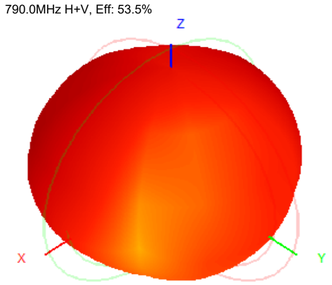

785.0MHz Total(E2-YZ), Max= 1.83dBi



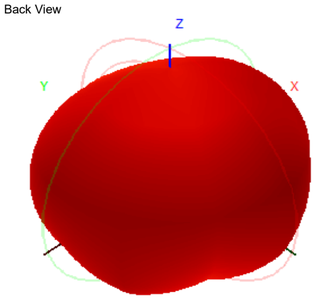

Total(H-XY), Max= 0.57dBi, CirD=10.00

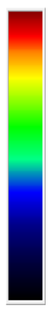



790.0MHz H+V, Eff: 53.5%

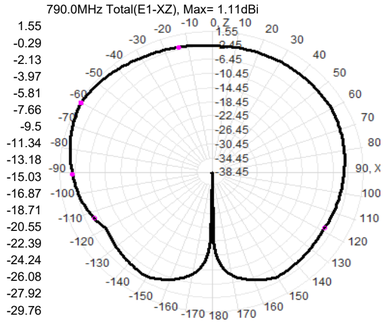



Back View

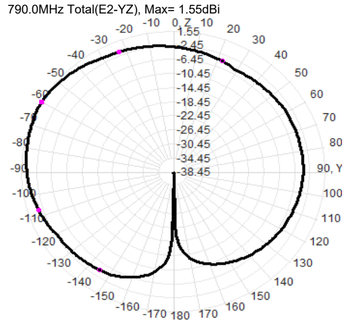


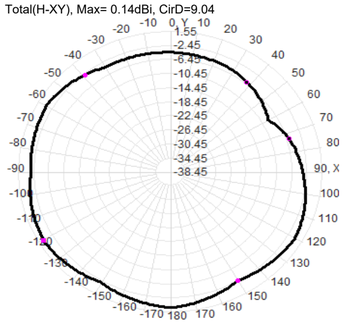

790.0MHz Total(E1-XZ), Max= 1.11dBi



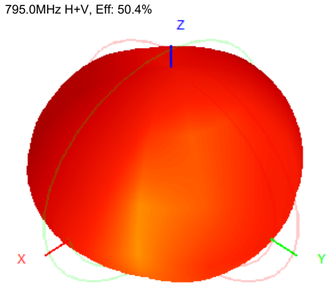

790.0MHz Total(E2-YZ), Max= 1.55dBi



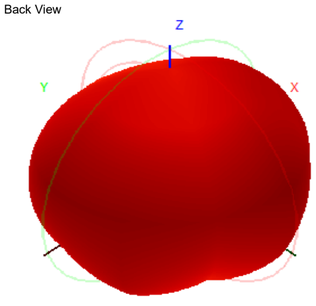

Total(H-XY), Max= 0.14dBi, CirD=9.04

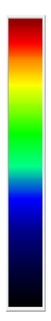



795.0MHz H+V, Eff: 50.4%

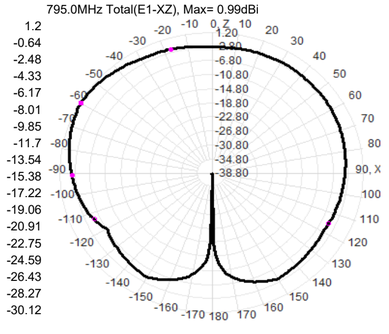



Back View

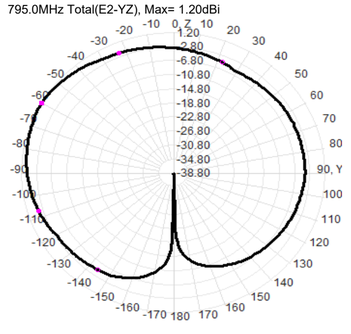


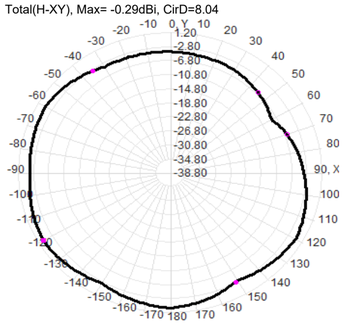

795.0MHz Total(E1-XZ), Max= 0.99dBi



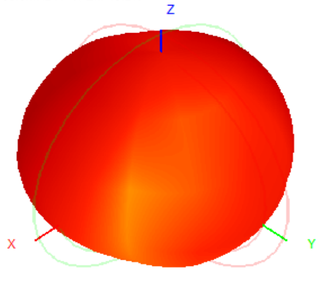

795.0MHz Total(E2-YZ), Max= 1.20dBi



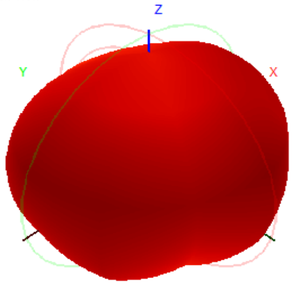

Total(H-XY), Max= -0.29dBi, CirD=8.04

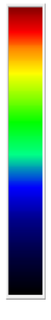



800.0MHz H+V, Eff: 49.2%

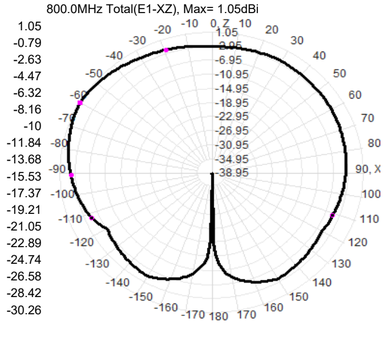



Back View

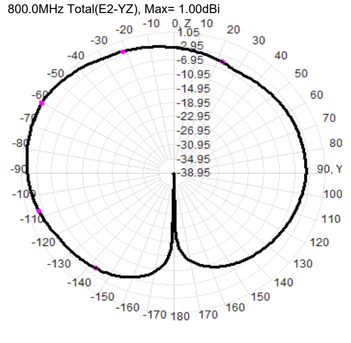


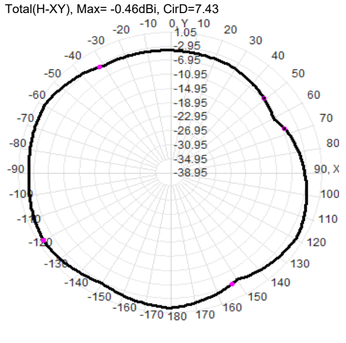

800.0MHz Total(E1-XZ), Max= 1.05dBi



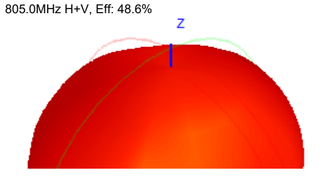

800.0MHz Total(E2-YZ), Max= 1.00dBi



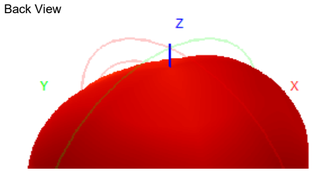

Total(H-XY), Max= -0.46dBi, CirD=7.43




805.0MHz H+V, Eff: 48.6%

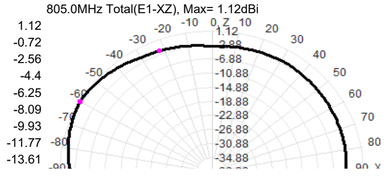



Back View

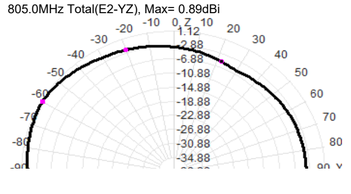




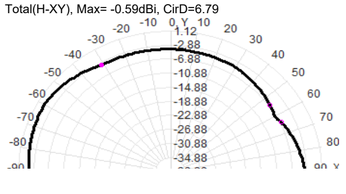
805.0MHz Total(E1-XZ), Max= 1.12dBi

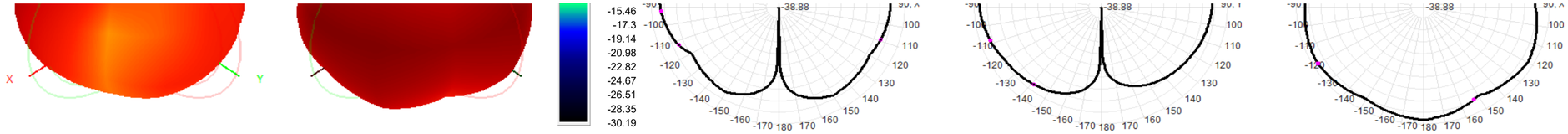



805.0MHz Total(E2-YZ), Max= 0.89dBi




Total(H-XY), Max= -0.59dBi, CirD=6.79




X
Y
-15.46
-17.3
-19.14
-20.98
-22.82
-24.67
-26.51
-28.35
-30.19
38.88
90, X
100
110
120
130
140
150
160
170
180
-100
-110
-120
-130
-140
-150
-160
-170