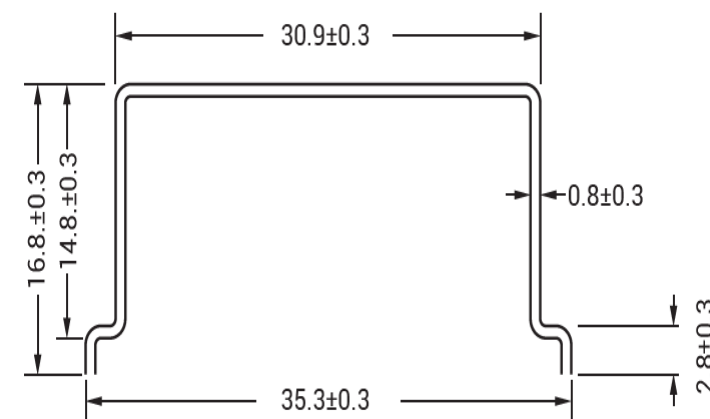
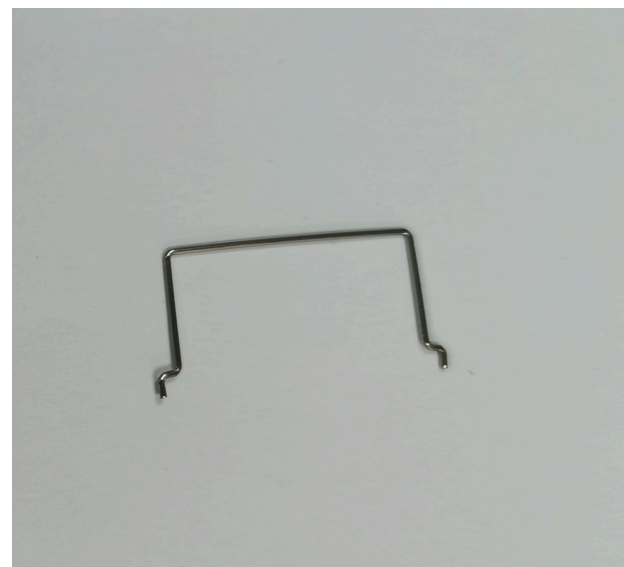
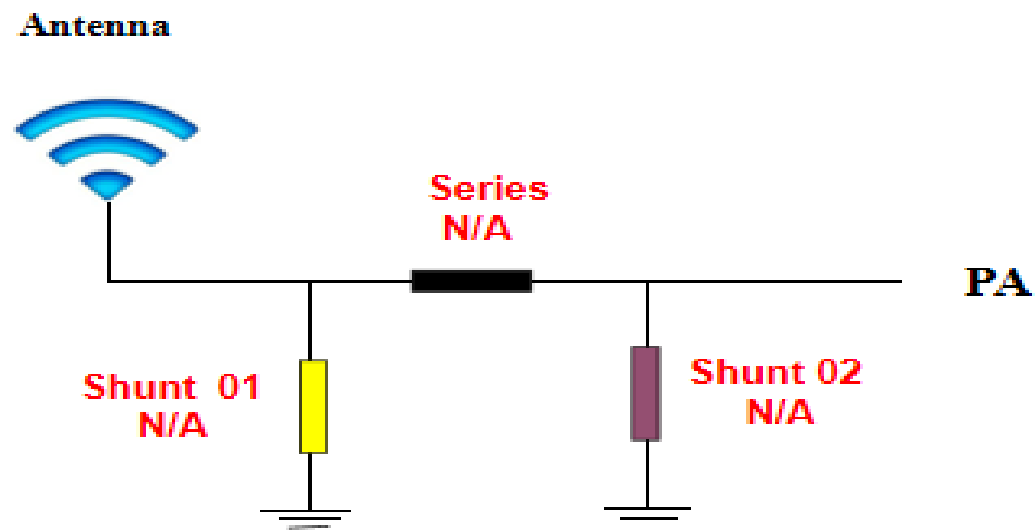


# *Contents*

- 1: Antenna Overview & Dimension
- 2: The test project
  - 1. Antenna Matching Network
  - 2. Gain & Efficiency
  - 3. The Free Space 3D Data





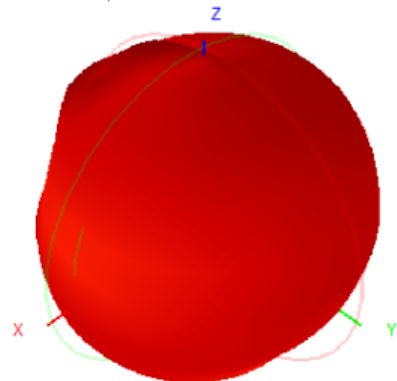
| Location | Description |
|----------|-------------|
| Shunt 01 | N/A         |
| Series   | N/A         |
| Shunt 02 | N/A         |

|                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency ID     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    |
| Frequency (MHz)  | 800.0 | 805.0 | 810.0 | 815.0 | 820.0 | 825.0 | 830.0 | 835.0 | 840.0 | 845.0 | 850.0 | 855.0 | 860.0 | 865.0 | 870.0 |
| Efficiency (dBi) | -9.06 | -8.88 | -8.73 | -8.49 | -8.20 | -7.91 | -7.62 | -7.28 | -6.97 | -6.71 | -6.50 | -6.32 | -6.16 | -6.03 | -5.95 |
| Gain (dBi)       | -4.97 | -4.74 | -4.63 | -4.58 | -4.44 | -4.34 | -4.11 | -3.88 | -3.66 | -3.60 | -3.64 | -3.43 | -3.16 | -2.88 | -2.66 |
| Efficiency (%)   | 12.41 | 12.93 | 13.41 | 14.16 | 15.12 | 16.17 | 17.30 | 18.69 | 20.07 | 21.32 | 22.39 | 23.32 | 24.20 | 24.95 | 25.40 |

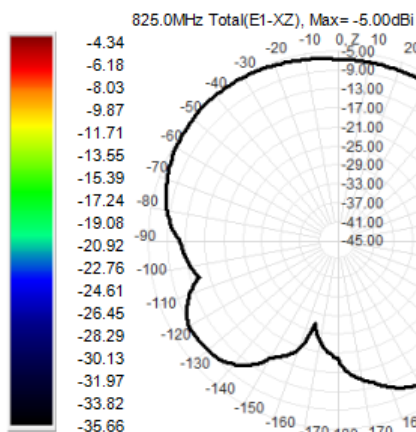
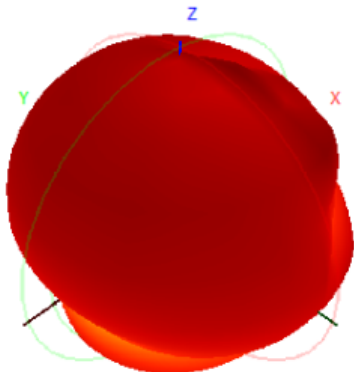
|                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency ID     | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    |
| Frequency (MHz)  | 875.0 | 880.0 | 885.0 | 890.0 | 895.0 | 900.0 | 905.0 | 910.0 | 915.0 | 920.0 | 925.0 | 930.0 | 935.0 | 940.0 | 945.0 |
| Efficiency (dBi) | -5.87 | -5.79 | -5.74 | -5.65 | -5.48 | -5.33 | -5.20 | -5.07 | -4.93 | -4.79 | -4.67 | -4.62 | -4.54 | -4.43 | -4.37 |
| Gain (dBi)       | -2.48 | -2.28 | -2.20 | -2.14 | -1.95 | -1.85 | -1.80 | -1.71 | -1.63 | -1.51 | -1.43 | -1.33 | -1.22 | -1.03 | -0.89 |
| Efficiency (%)   | 25.86 | 26.39 | 26.65 | 27.22 | 28.31 | 29.33 | 30.20 | 31.13 | 32.14 | 33.20 | 34.10 | 34.48 | 35.17 | 36.10 | 36.55 |

|                  |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |
|------------------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|
| Frequency ID     | 31    | 32    | 33    | 34    | 35    | 36    | 37    |  |  |  |  |  |  |  |  |
| Frequency (MHz)  | 950.0 | 955.0 | 960.0 | 965.0 | 970.0 | 975.0 | 980.0 |  |  |  |  |  |  |  |  |
| Efficiency (dBi) | -4.40 | -4.41 | -4.39 | -4.40 | -4.45 | -4.50 | -4.50 |  |  |  |  |  |  |  |  |
| Gain (dBi)       | -0.81 | -0.72 | -0.58 | -0.52 | -0.46 | -0.48 | -0.48 |  |  |  |  |  |  |  |  |
| Efficiency (%)   | 36.34 | 36.23 | 36.36 | 36.28 | 35.89 | 35.46 | 35.45 |  |  |  |  |  |  |  |  |

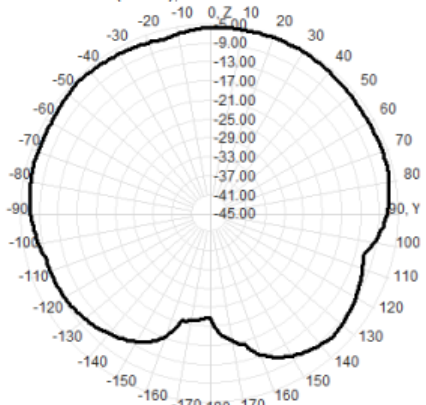
825.0MHz H+V, Eff: 16.2%



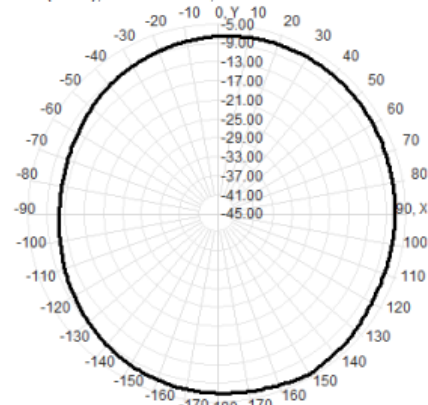
Back View



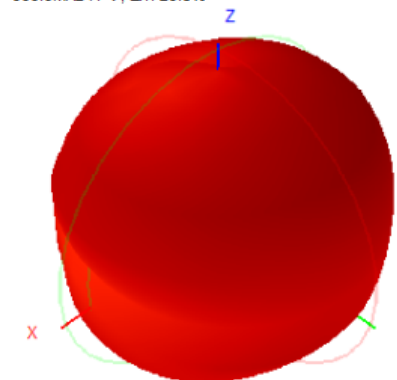
825.0MHz Total(E2-YZ), Max=-5.54dBi



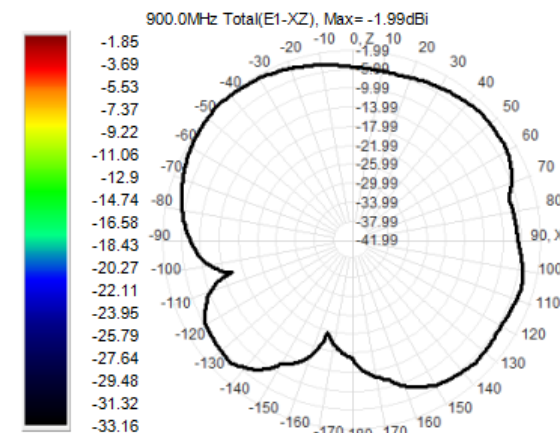
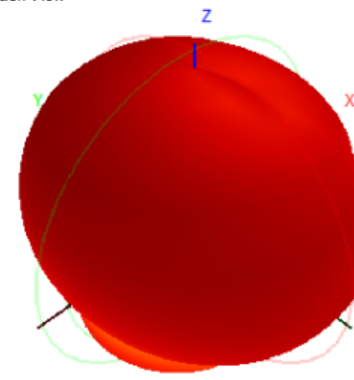
Total(H-XY), Max=-6.05dBi, CirD=5.72



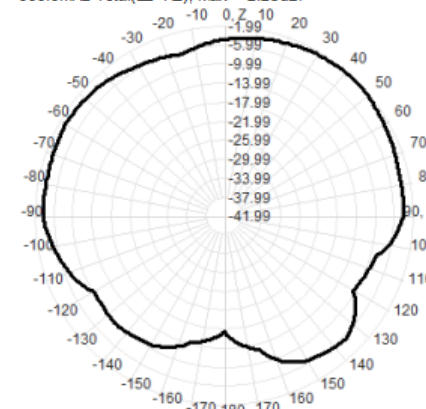
900.0MHz H+V, Eff: 29.3%



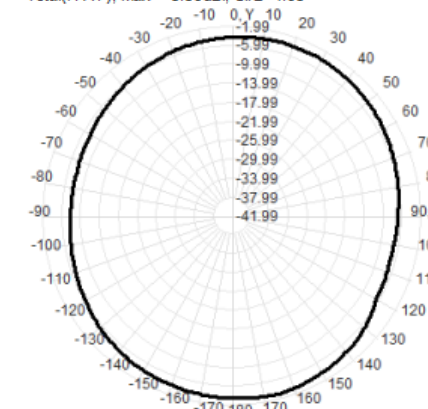
Back View



900.0MHz Total(E2-YZ), Max=-2.23dBi

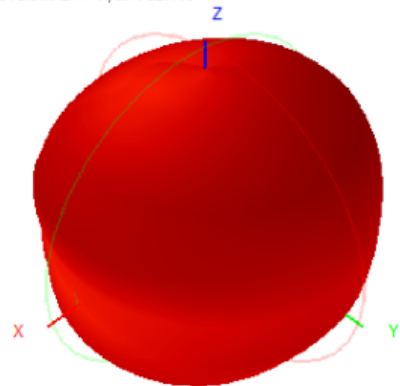


Total(H-XY), Max=-3.36dBi, CirD=4.65

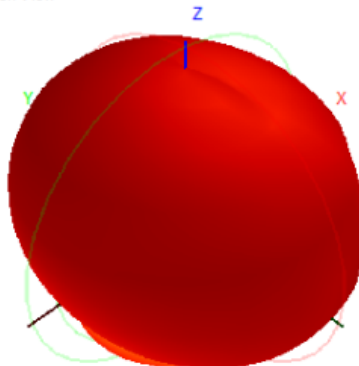




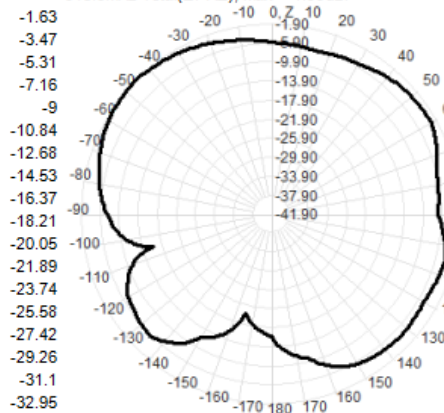
915.0MHz H+V, Eff: 32.1%



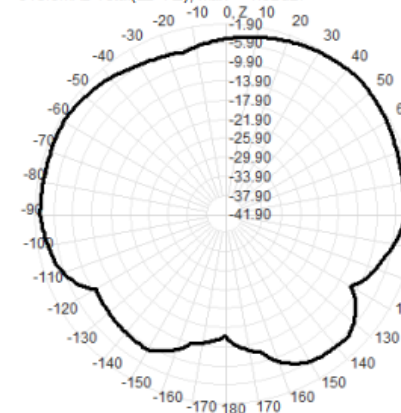
Back View



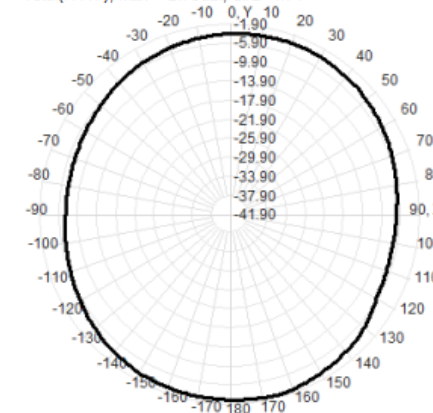
915.0MHz Total(E1-XZ), Max=-1.90dBi



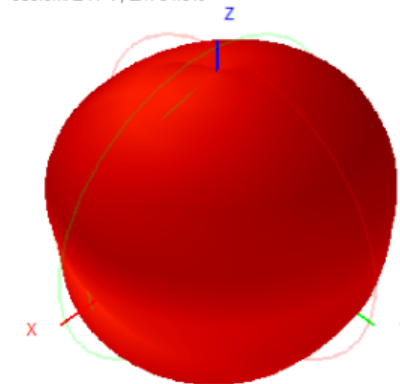
915.0MHz Total(E2-YZ), Max=-1.92dBi



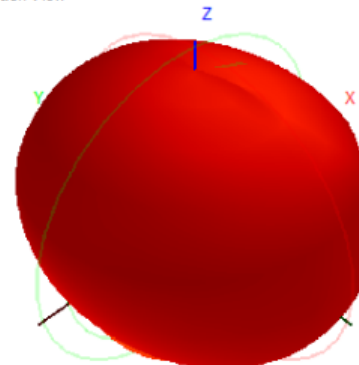
Total(H-XY), Max=-2.75dBi, CirD=4.74



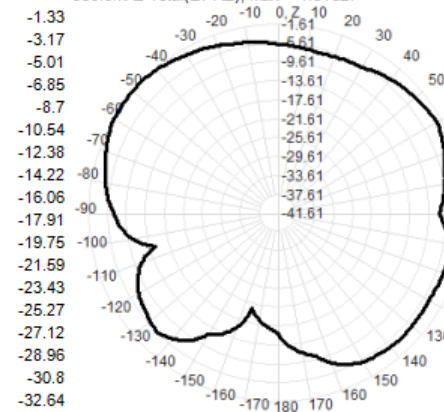
930.0MHz H+V, Eff: 34.5%



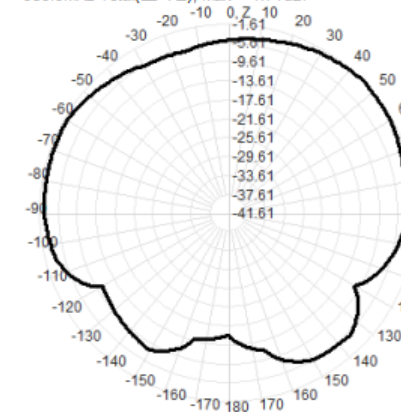
Back View



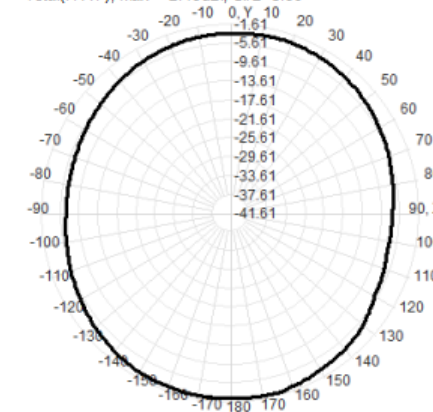
930.0MHz Total(E1-XZ), Max=-1.61dBi



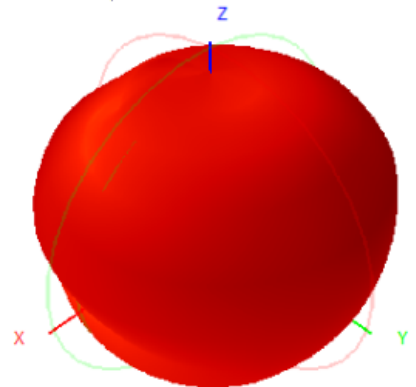
930.0MHz Total(E2-YZ), Max=-1.71dBi



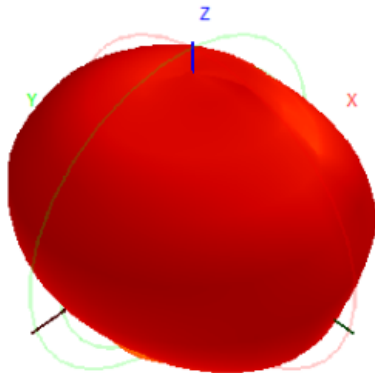
Total(H-XY), Max=-2.46dBi, CirD=5.08



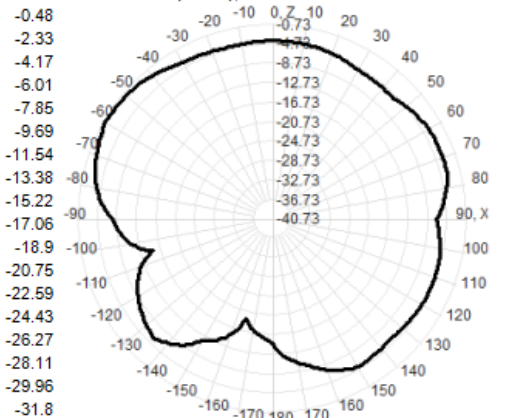
980.0MHz H+V, Eff: 35.5%



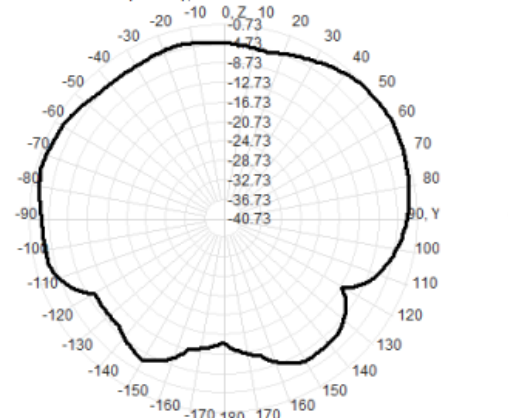
Back View



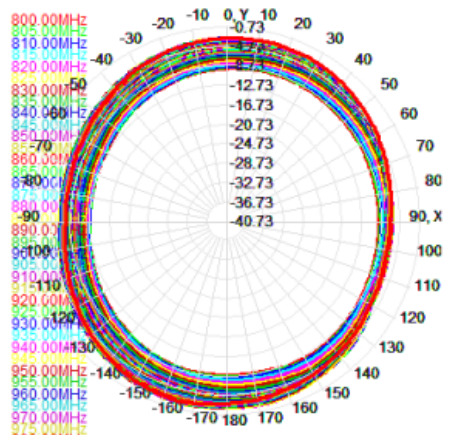
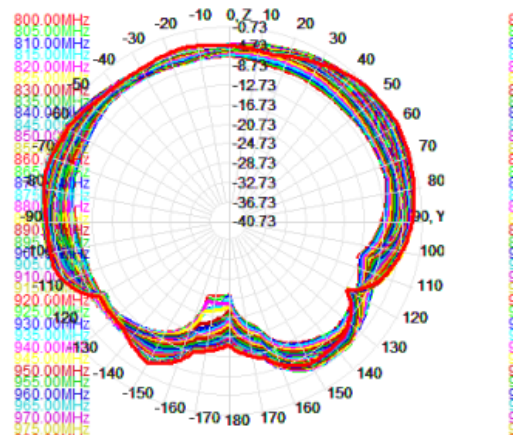
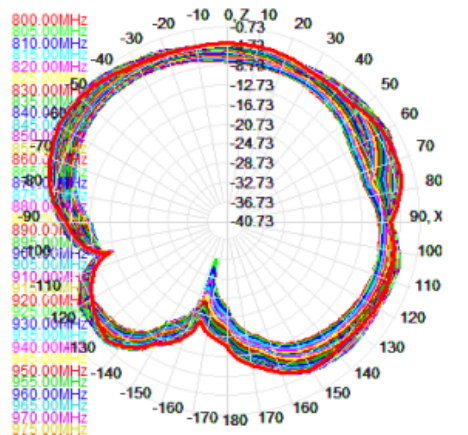
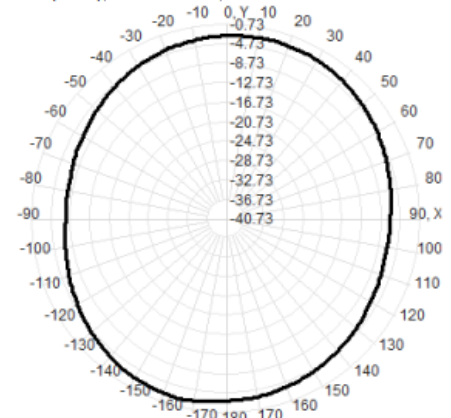
980.0MHz Total(E1-XZ), Max=-1.14dBi



980.0MHz Total(E2-YZ), Max=-0.73dBi



Total(H-XY), Max=-2.57dBi, CirD=5.26



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THANKS

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