

The publication is devoted to the memory UR0GT.

Four Element Antenna for Stack Design for 145- MHz Band

Credit Line: Forum from:
www.cqham.ru

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The four element YAGI is designed for installing in Four Element Stack Antenna System. The antennas not critical to nearest objects. Four such antennas are installed at corners of a quad.

Such impedance could be easy matched with 50- Ohm coaxial cable. Sure it is possible use just one such antenna with your 145- MHz transceiver.

Two groups of antennas are connected through a 75- Ohm coaxial cable (the same length from each antenna) in bridge. It is 37.5- Ohm. Then the two groups connected to bridge each group through lambda/4 transformer from 50- Ohm coaxial cable. It is 33.3 Ohm.

The antenna does not require a symmetrical unit at feed points. Boom for the antenna may be made as from metal either from dielectric (optimal design) stuff.

Figure 1 shows the four elements YAGI for stack design. **Figure 2** shows Z of the antenna. **Figure 3** shows SWR of the antenna. **Figure 4** shows DD of the antenna.

The MMANA model of the Triangle Vertical Antenna for 20, 15 and 10- meter Bands may be loaded: [http:// www.antentop.org/019/stack_ur0gt_019.htm](http://www.antentop.org/019/stack_ur0gt_019.htm)

73! UR0GT

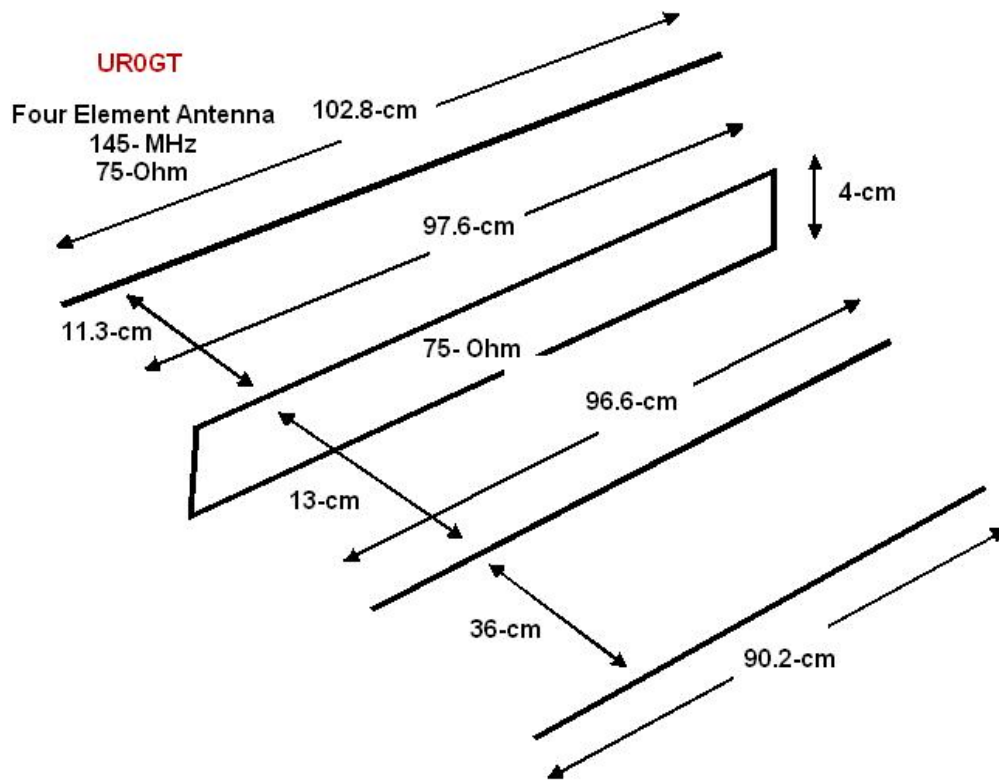


Figure 1 Four Elements YAGI for Stack Design

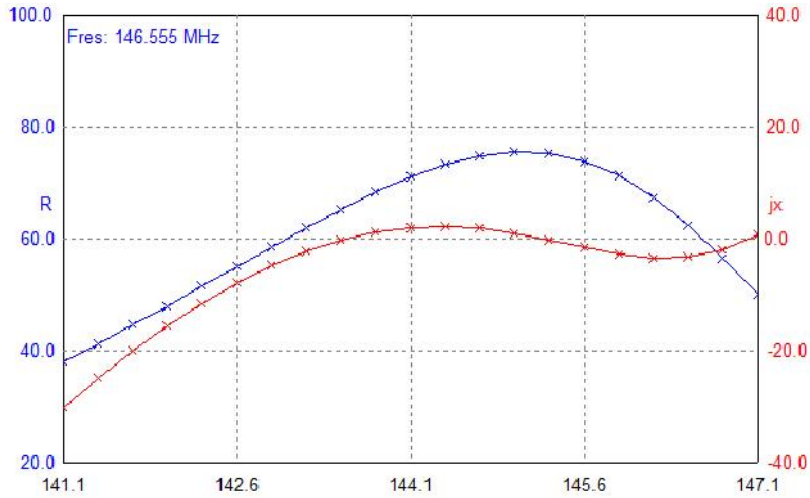


Figure 2 Z of the Four Elements YAGI for Stack Design

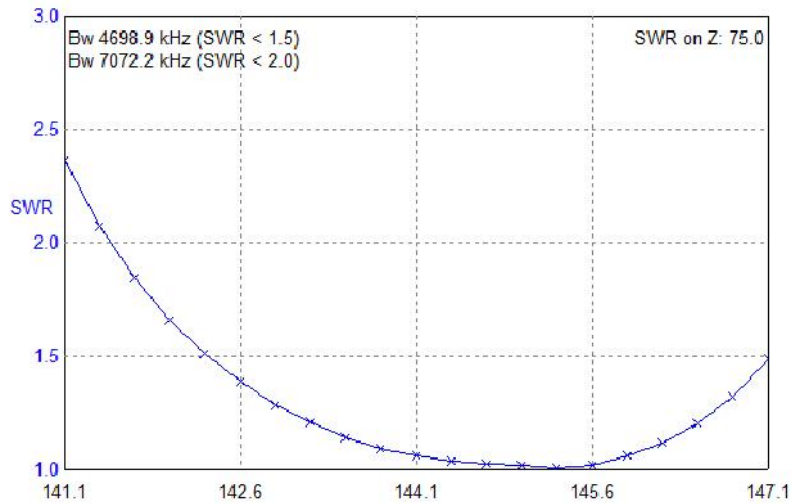


Figure 3 SWR of the Four Elements YAGI for Stack Design

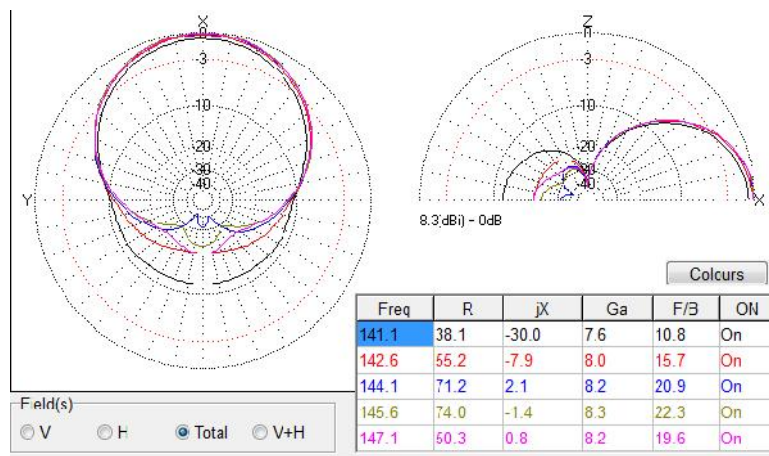


Figure 4 DD of the Four Elements YAGI for Stack Design