

L- Vertical Antenna for nearest objects for the 40- and 20- meter Band

The publication is devoted to the memory UR0GT.

Credit Line: Forum from:
www.cqham.ru

By: Nikolay Kudryavchenko, UR0GT

One L-Vertical Antenna may works at the two amateur Bands- 40- and 20- meters. The main feature of the antenna is that it may be located at nearest conductive objects- for example the antenna may be placed near water drain. Antenna may be placed at a wall of a house. Inside a house there are always a lot of conductive objects- for example electrical main, refrigerator, metal tubes of house ventilation system and so on.

Parts L1 and L2 of the antenna intended for tuning the antenna into resonance at the 20- meter Band. Length of the parts may be changed at real antenna installation. For the antenna a good ground system is required. However as usual it is not a big problem to make a ground system beside such antenna. For example, the antenna was simulated with wire counterpoises in 5 meter length at height 0.1- meter however in real those ones may be placed straight away to the ground.

The MMANA model of the L-Vertical Antenna for Nearest Objects for The 40- and 20- meter Bands may be loaded: [http:// www.antentop.org/019/ur0gt_L_Vertical_019.htm](http://www.antentop.org/019/ur0gt_L_Vertical_019.htm)

Figure 1 Shows design of the L-Vertical Antenna.

Figure 2 Z of the L-Vertical Antenna for the 40- meter Band.

Figure 3 Shows SWR of the L-Vertical Antenna for the 40- meter Band.

Figure 4 Shows DD of the L-Vertical Antenna for the 40- meter Band

Figure 5 Shows Z of the L-Vertical Antenna for the 20- meter Band.

Figure 6 Shows SWR of the L-Vertical Antenna for the 20- meter Band.

Figure 7 Shows DD of the L-Vertical Antenna for the 20- meter Band.

73! de UR0GT

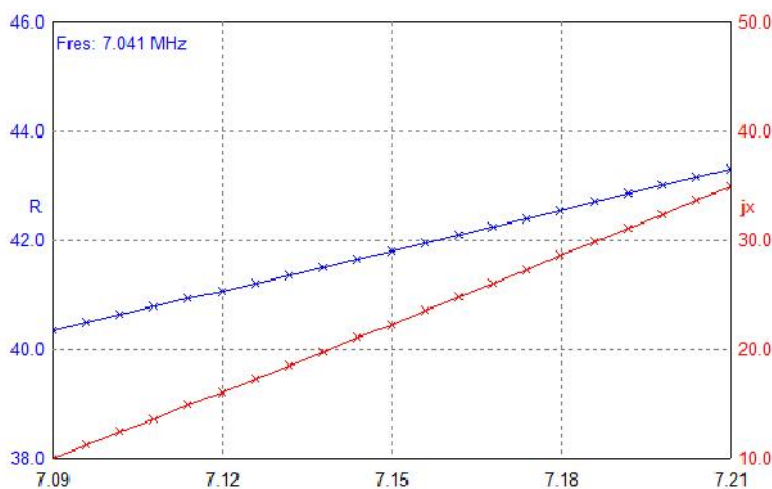


Figure 2 Z of the L-Vertical Antenna for the 40- meter Band

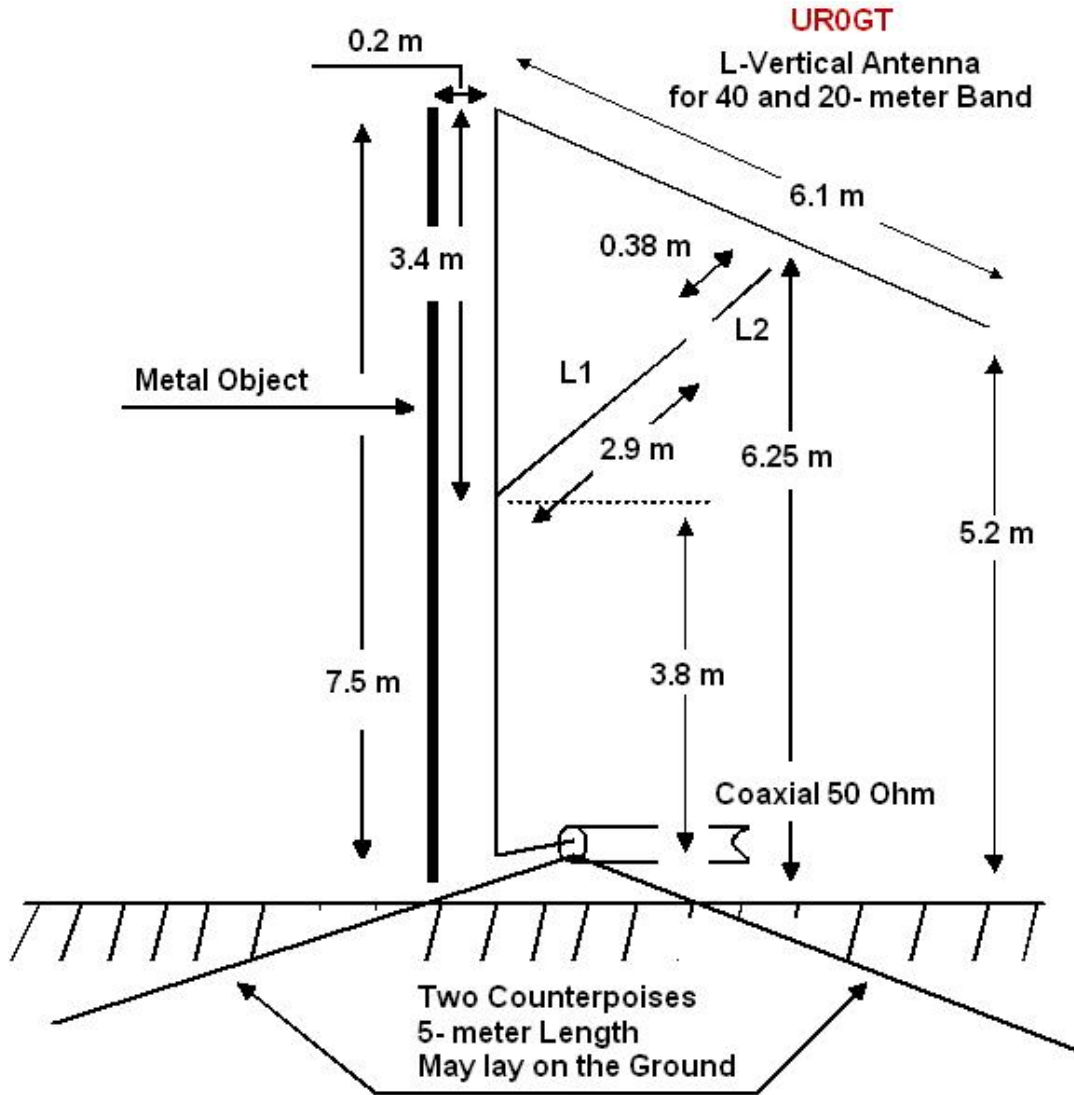


Figure 1 Design of the L-Vertical Antenna

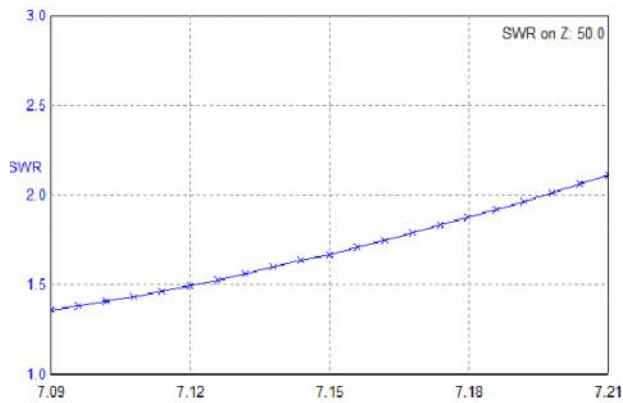


Figure 3 SWR of the L-Vertical Antenna for the 40-meter Band

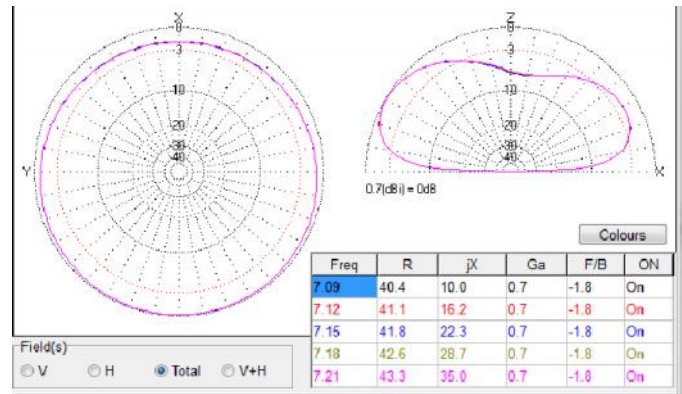


Figure 4 DD of the L-Vertical Antenna for the 40-meter Band

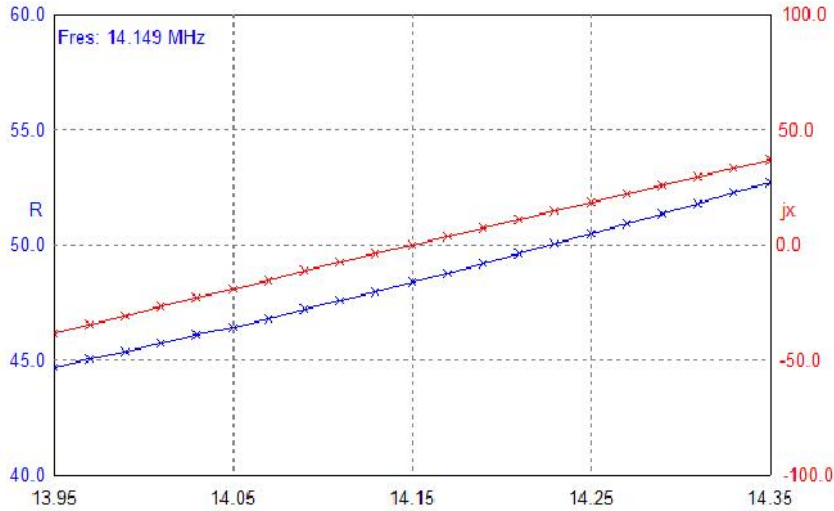


Figure 5 Z of the L-Vertical Antenna for the 20- meter Band

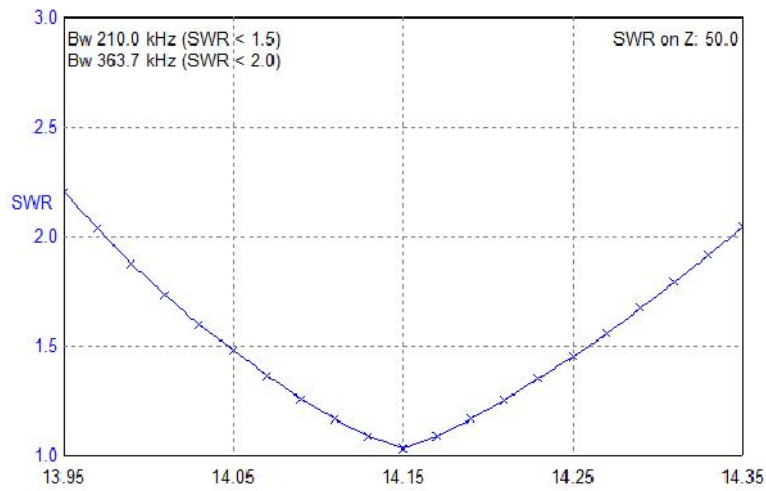


Figure 6 SWR of the L-Vertical Antenna for the 20- meter Band

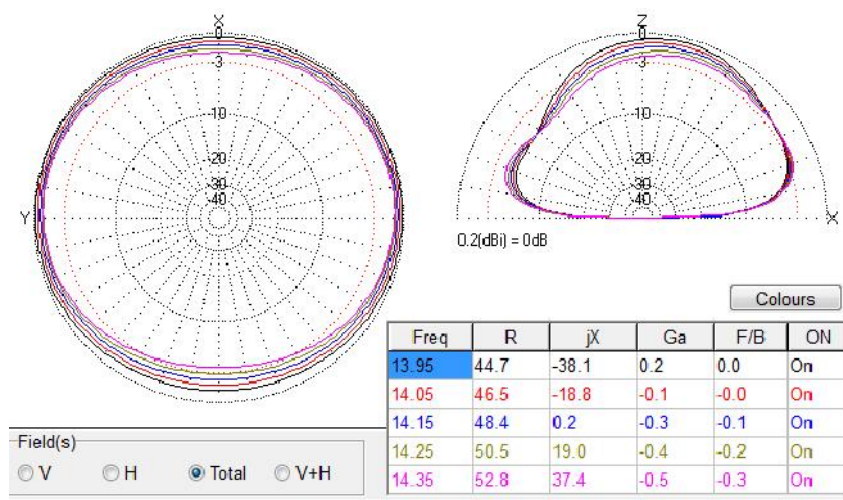


Figure 7 DD of the L-Vertical Antenna for the 20- meter Band