

RA1AFS Universal Antenna for the HF Bands

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Indoor antenna at apartment building is all time it is not an easy task to do. However the Simple Dipole Antenna that may be installed at the wall of the building is covered bands from the 80- m up to 10- meter band. **Figure 1** shows the design of the Simple Dipole Antenna. **Figure 2** shows the Simple Dipole Antenna at the wall of the building. As you can see, the antenna is installed on the usual fishing pole. Active radiator in length of 7.3- meter takes most length of the fishing pole. The counterpoise of the antenna going to the balcony, when it was twisted to a roll and then connected to the transformer 1/9.

You may found lots of design of the transformer 1/9 in the Internet or at Antentop site. **Figure 3** shows the Simple Dipole Antenna that is going inside of the balcony. White one is the transformer 1/9. At left side of the transformer you may see the roll of the coaxial cable that is made an RF Choke. White wire still formed a counterpoise. **Figure 4** shows parameters of the Antenna at the 80- meter Band. **Figure 5** shows parameters of the Antenna at the 40- meter Band. **Figure 6** shows parameters of the Antenna at the 30- meter Band. **Figure 7** shows parameters of the Antenna at the 20- meter Band. **Figure 8** shows parameters of the Antenna at the 17- meter Band. **Figure 9** shows parameters of the Antenna at the 15- meter Band. **Figure 10** shows parameters of the Antenna at the 12- meter Band. **Figure 11** shows parameters of the Antenna at the 10- meter Band.



Figure 2 Simple Dipole Antenna for HF Bands on the Wall of the Building

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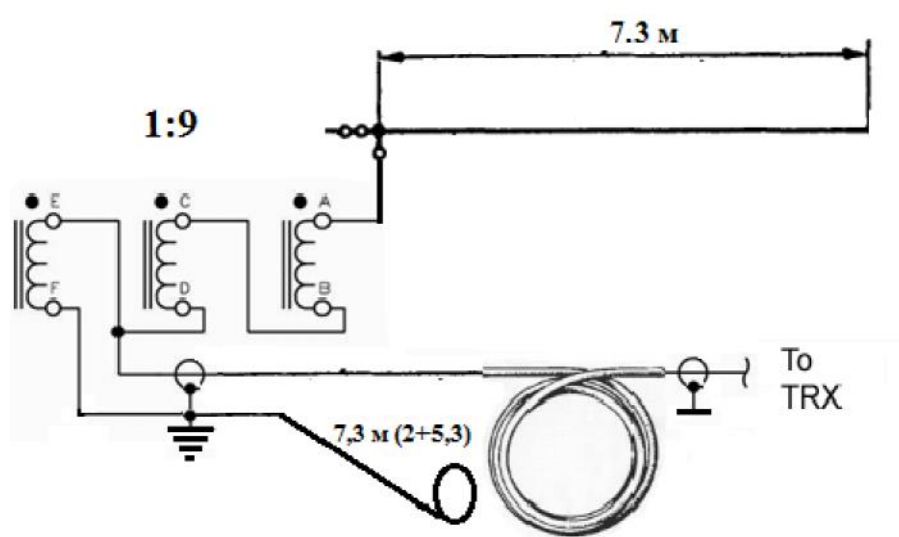


Figure 1 Simple Dipole Antenna for the HF Bands



Figure 3 Simple Dipole Antenna for HF Bands Going Inside of the Balcony

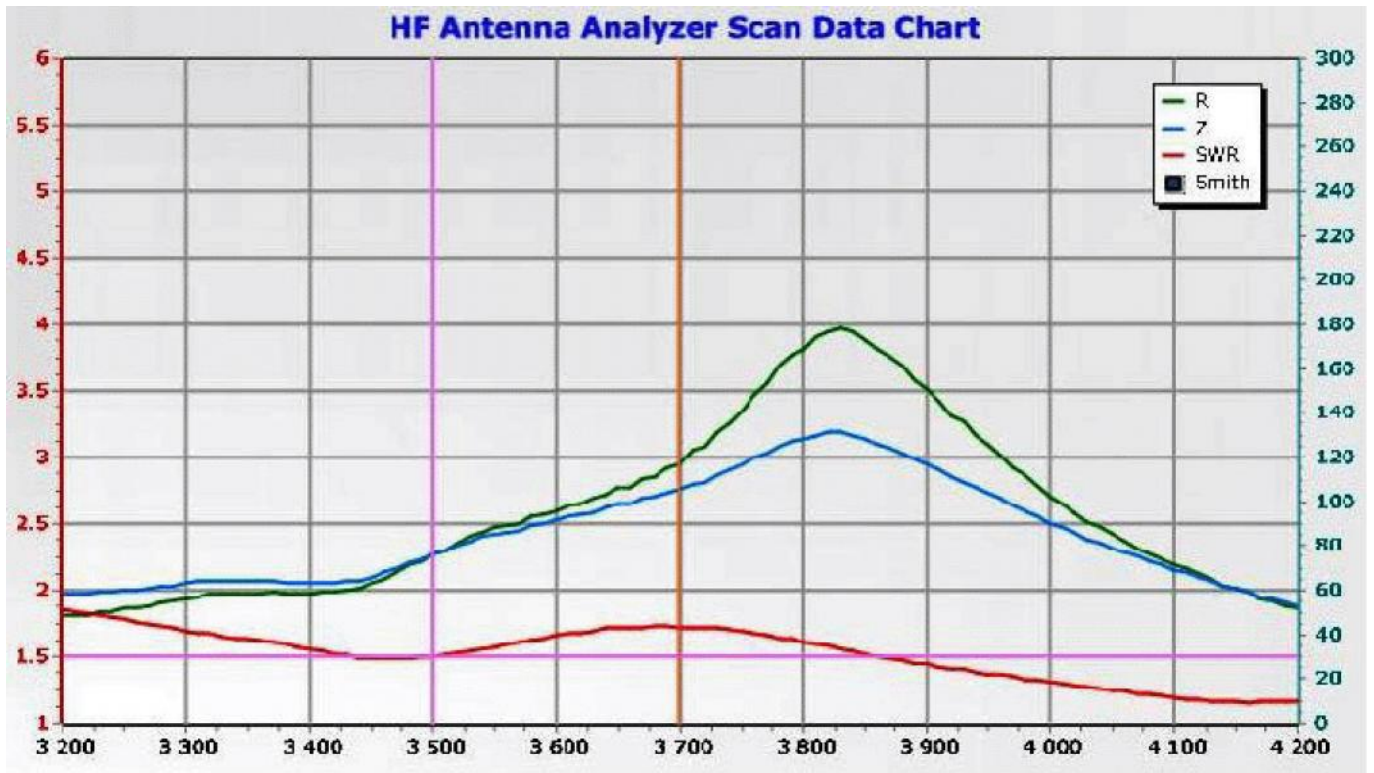


Figure 4 Parameters of the Simple Dipole Antenna for the HF Bands at the 80- meter Band

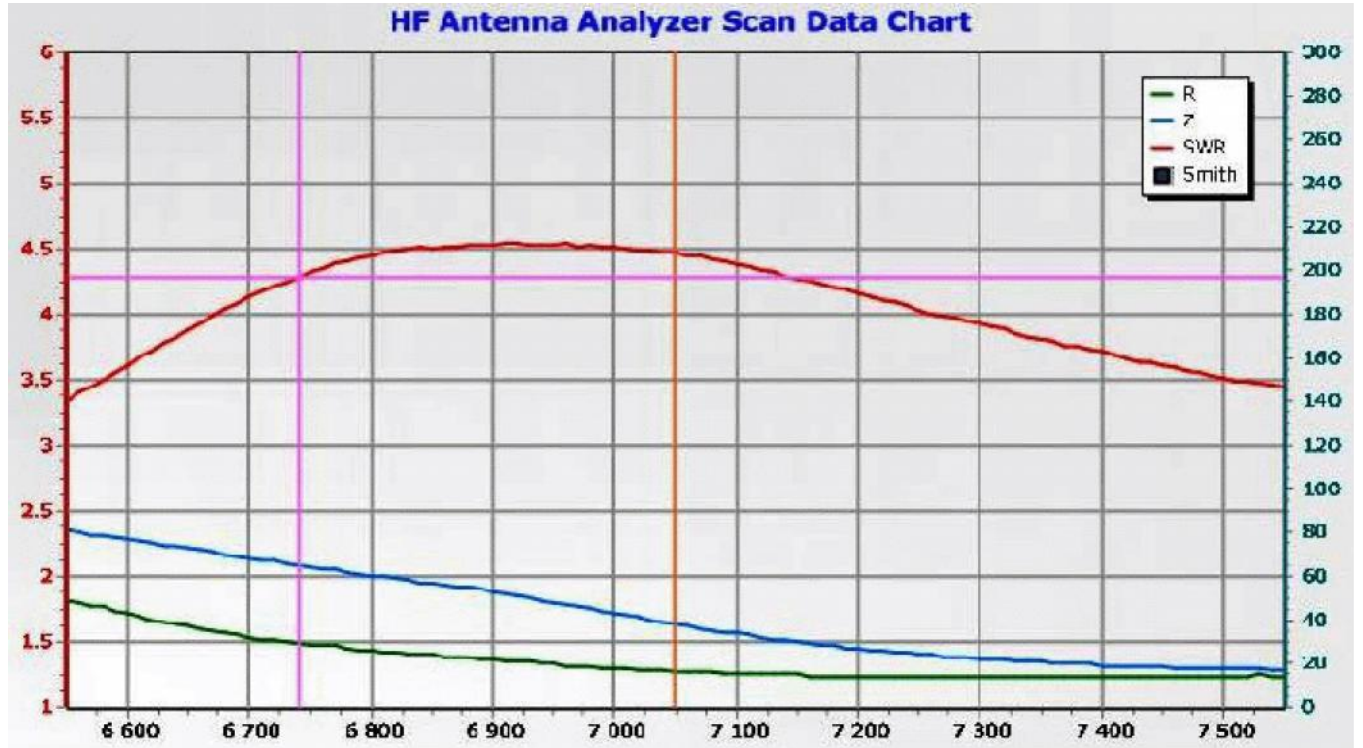


Figure 5 Parameters of the Simple Dipole Antenna for HF Bands at the 40- meter Band

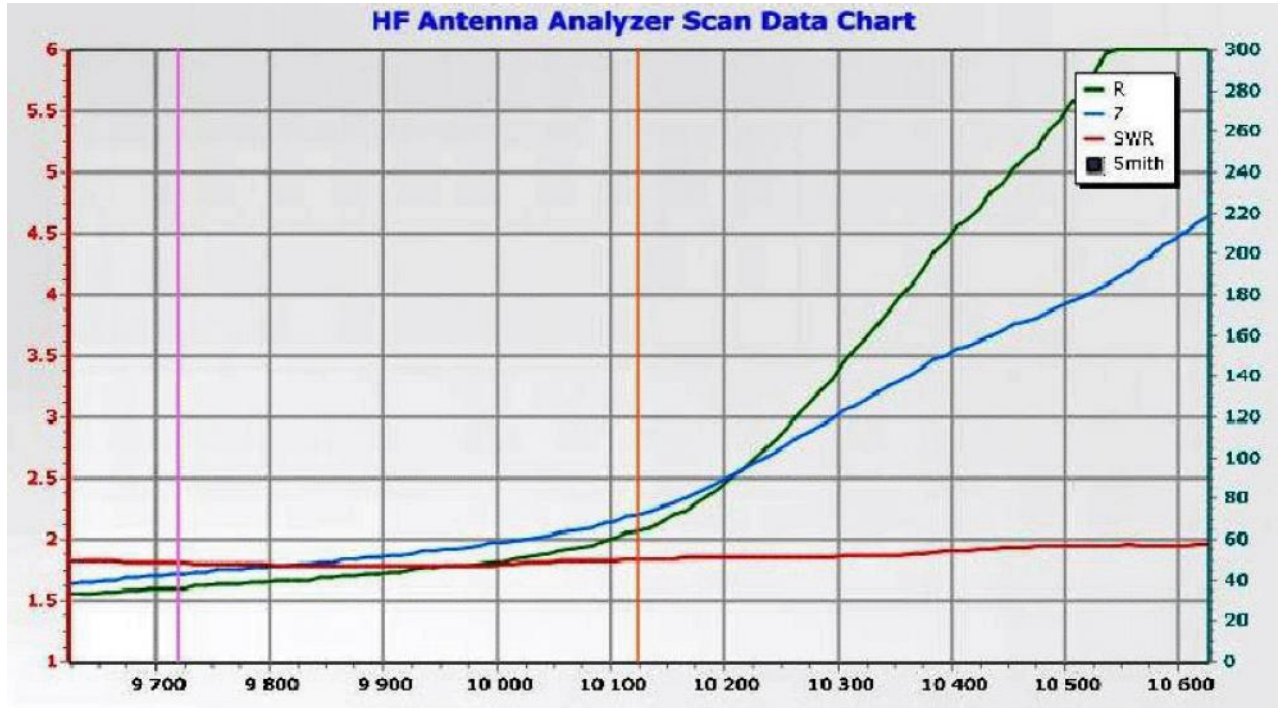


Figure 6 Parameters of the Simple Dipole Antenna for HF Bands at the 30- meter Band

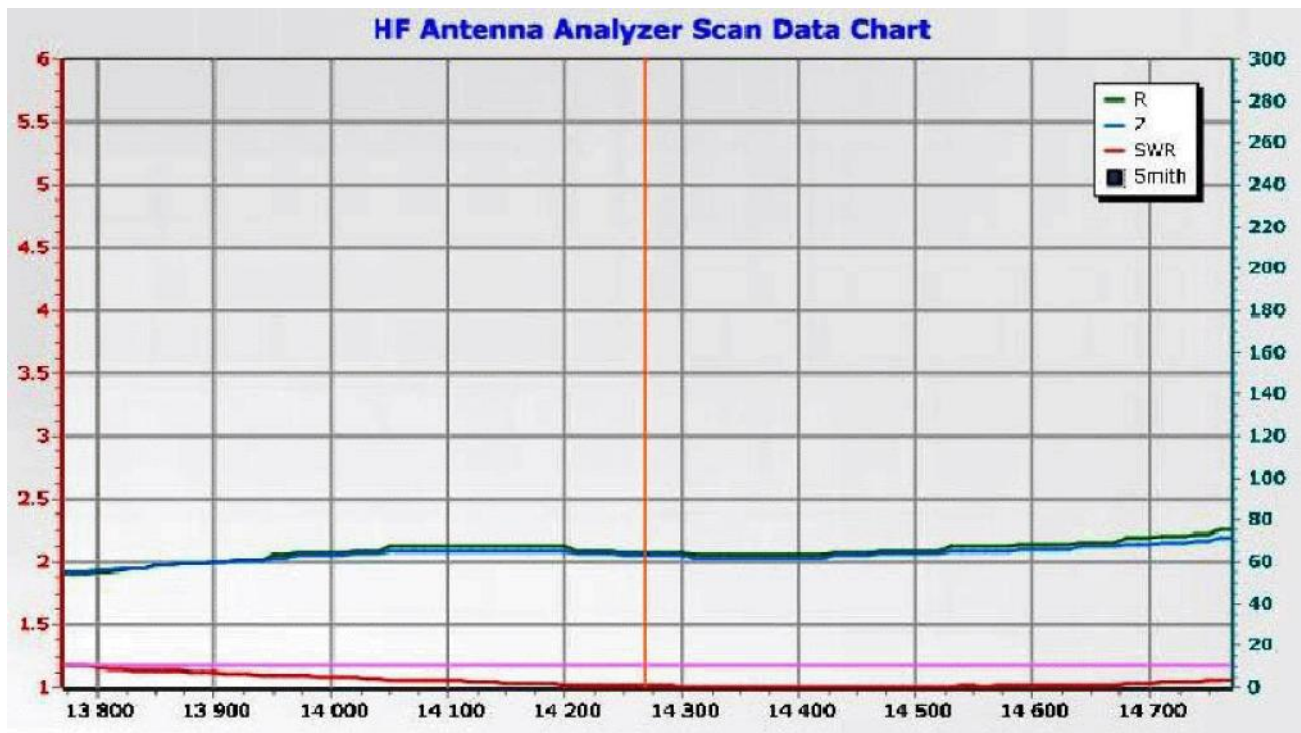


Figure 7 Parameters of the Simple Dipole Antenna for HF Bands at the 20- meter Band

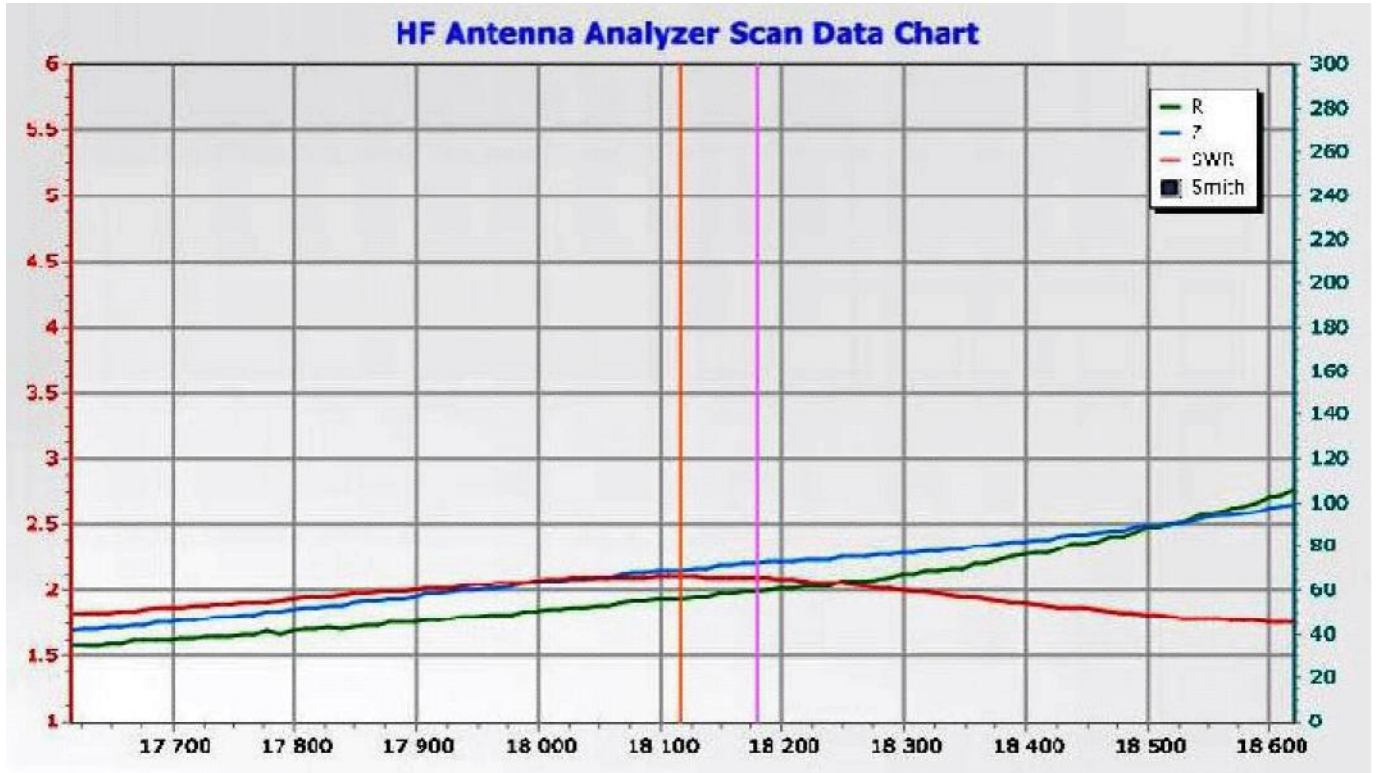


Figure 8 Parameters of the Simple Dipole Antenna for HF Bands at the 17- meter Band

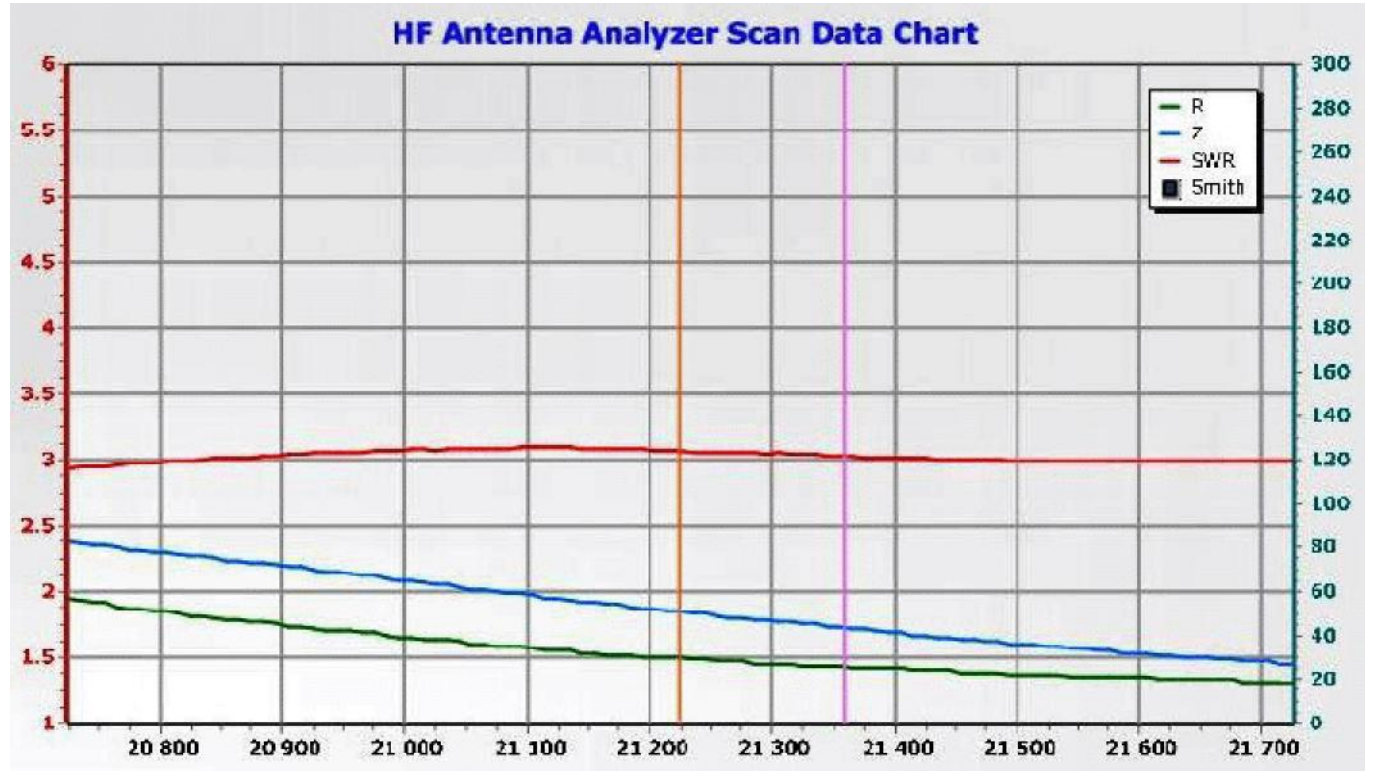


Figure 9 Parameters of the Simple Dipole Antenna for HF Bands at the 15- meter Band

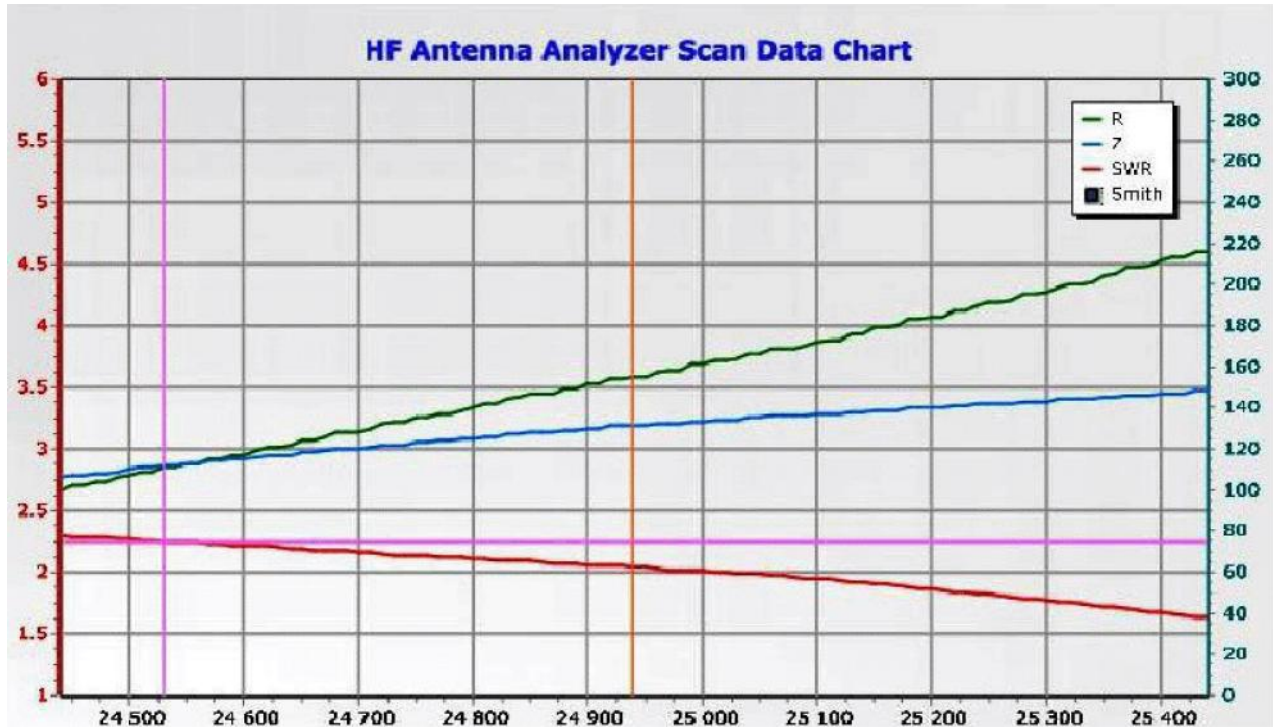


Figure 10 Parameters of the Simple Dipole Antenna for HF Bands at the 12- meter Band

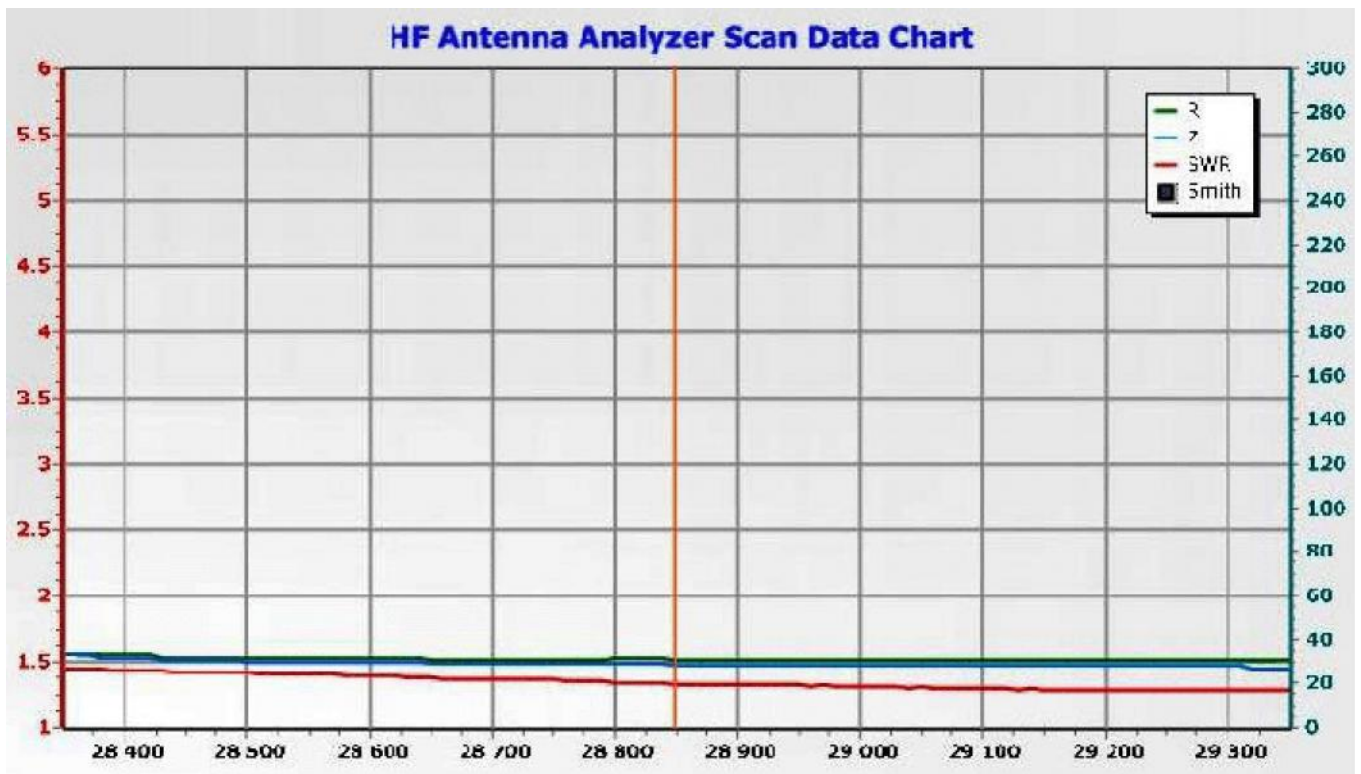


Figure 11 Parameters of the Simple Dipole Antenna for HF Bands at the 10- meter Band