Three Element YAGI Antenna for 145- MHz with Rectangle Reflector

By: Yuriy Skutelis, RN3DEK

The antenna has F/B ratio at least 29 dB. It was reached by special form of the reflector. **Figure 1** shows design of the antenna. Reflector of the antenna made of aluminum wire in diameter 5- mm. Elements of the antenna made of aluminum tube in diameter 8- mm. Boom of the antenna made from dielectric stuff. Gamma matching used to feed the antenna. It is because "pure" antenna has input impedance close to 40- Ohm. **Figure 2** shows design of the gamma matching.

Figure 3 shows input impedance of the antenna. **Figure 4** shows SWR of the antenna. **Figure 5** shows DD of the antenna.

MMANA File for the Three Element Yagi Antenna for 145-MHz with Rectangle Reflector may be loaded at: http:// www.antentop.org/019/rectangle_019.htm



Figure 2 Gamma matching



Figure 1 Three Element Yagi Antenna for 145- MHz with Rectangle Reflector



Figure 3 Z of the Three Element Yagi Antenna for 145- MHz with Rectangle Reflector



Figure 4 SWR of the Three Element Yagi Antenna for 145- MHz with Rectangle Reflector



