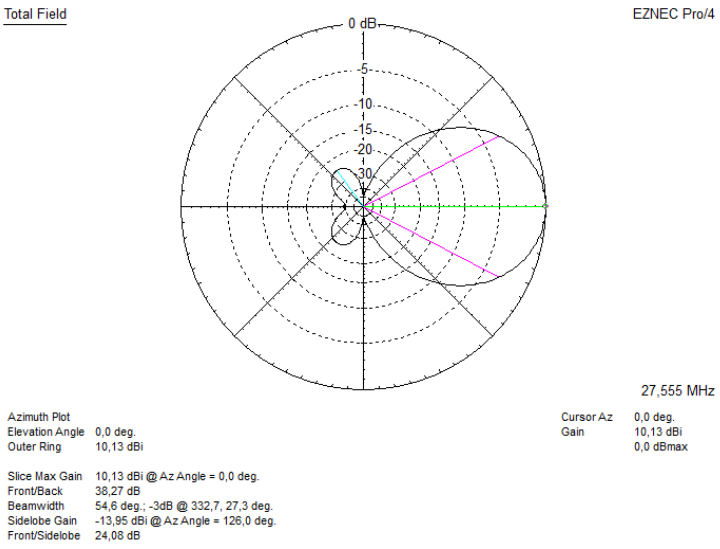
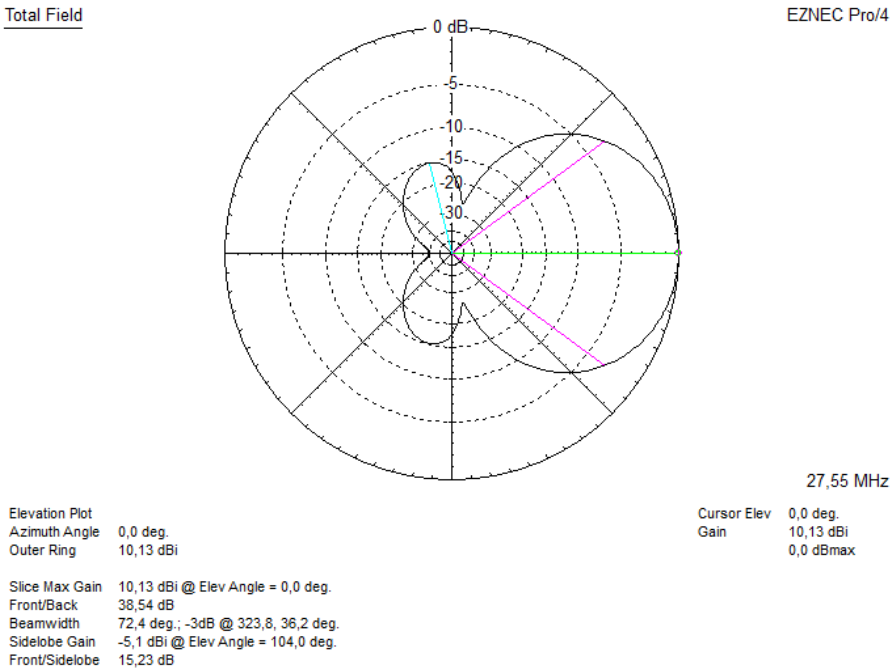
7,27 M 6el OWA 10,13 dBI

For: DX portion 11 meter band
Antenna Type: 6 el OWA-YAGI
Folded Dipole radiator
Designed by: HPSD version 1.01 Nov 2011

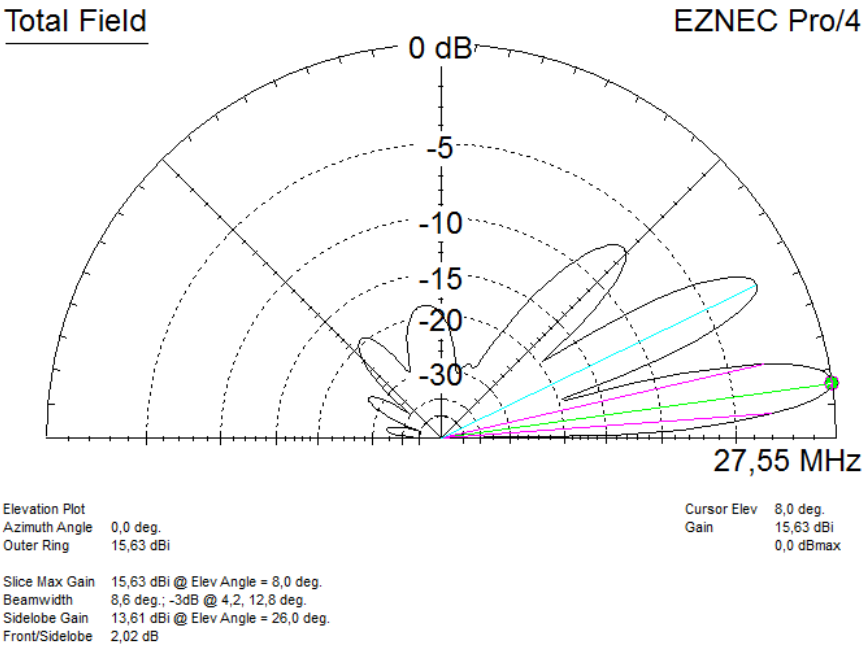
Boom length:	9,9 Meter
Gain:	10,13 dBI (@27,555 Mhz)
FB	<38dB
FR	<34 dB
Impedance:	50 ohms, direct fed.
Power handling:	>20 Kw
SWR below	1:1.1 > 1000 Khz.
SWR below	2:1 > 2200 Khz



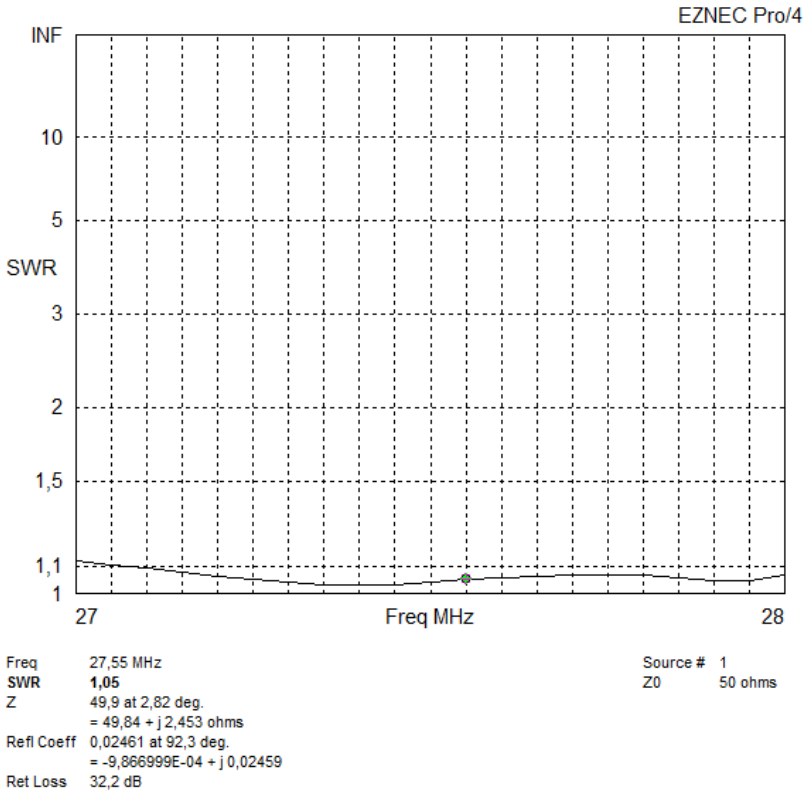
Above the azimuth plot.



Above the freespace elevation plot.



Above the elevation plot at 18 meters height above average ground conditions.



The predicted SWR plot.

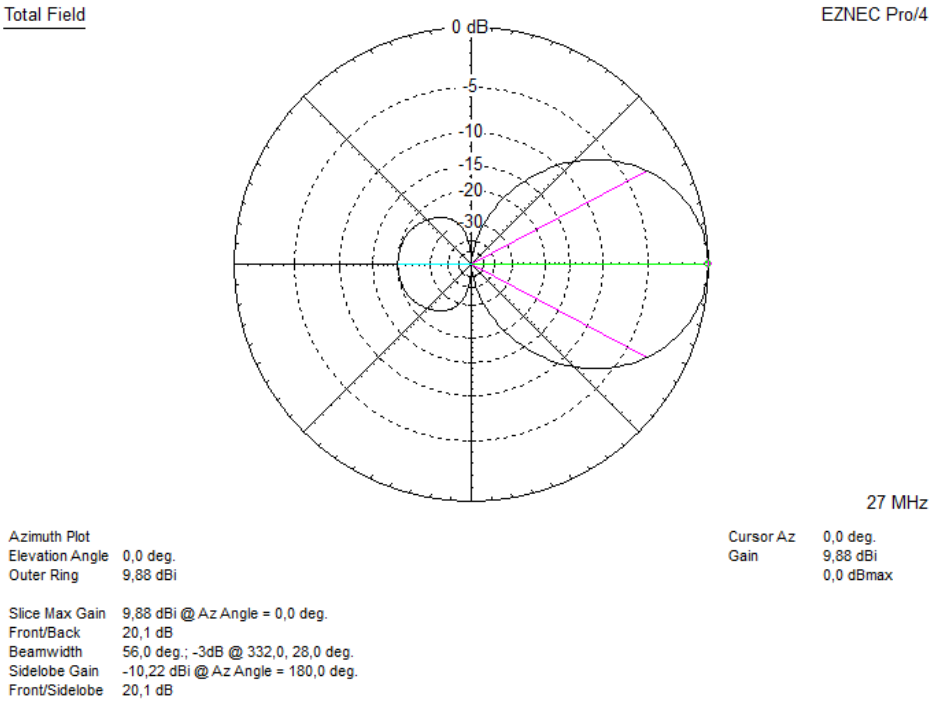
- The antenna has a “dipole” as radiator

- The element diameters are: 20mm and 16 mm

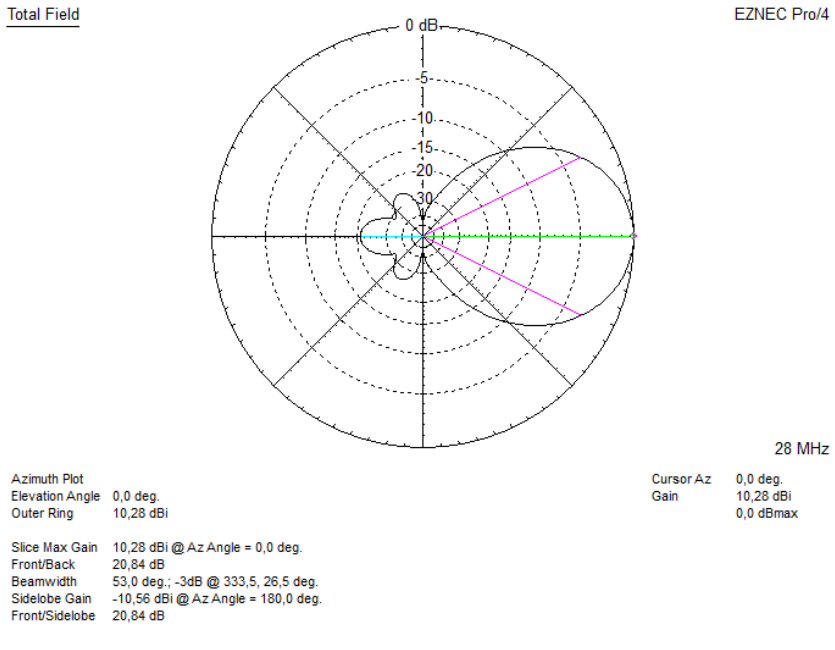
- The 20mm part is 2,00 meters long and the 16 mm part makes up for the rest of the element.

Element	Length	Distance
Reflector	2,79 M	0 M
Radiator	5,41 M	1,36 M
Director 1	5,10 M	1,85 M
Director 2	4,94 M	3,48 M
Director 3	4,84 M	5,00 M
Director 4	4,72 M	7,27 M

DO NOT CHANGE ELEMENT DIMENSIONS.



Above the free space azimuth plot for 27 Mhz.



Above the free space azimuth plot for 28 Mhz