

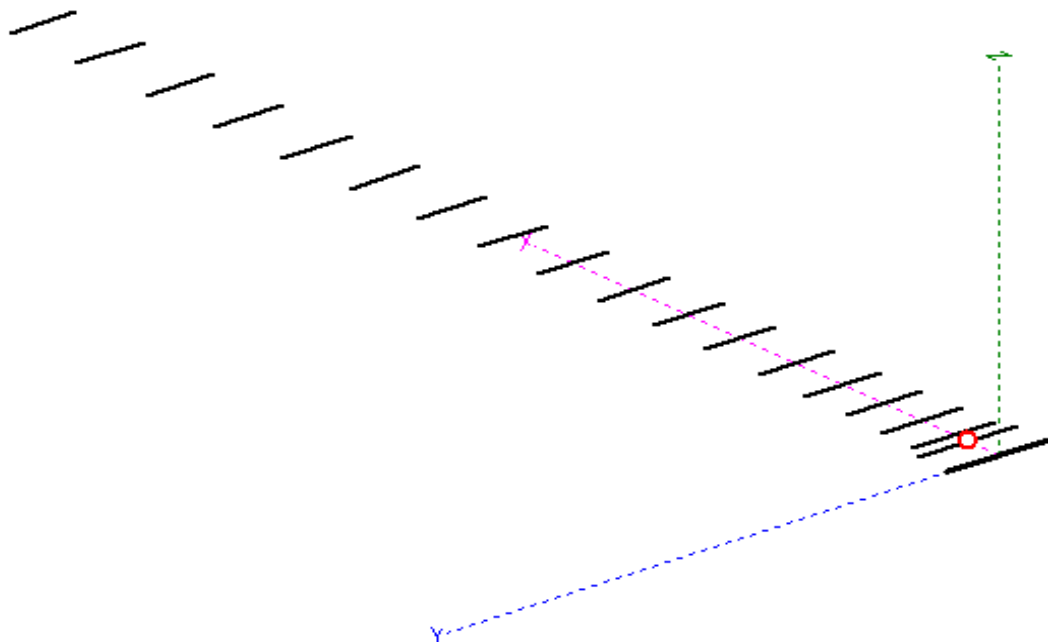
Audionuts 19 element 16.5dB Optus 3G 1920 - 2150 Mhz Yagi

[Whirlpool link](#)

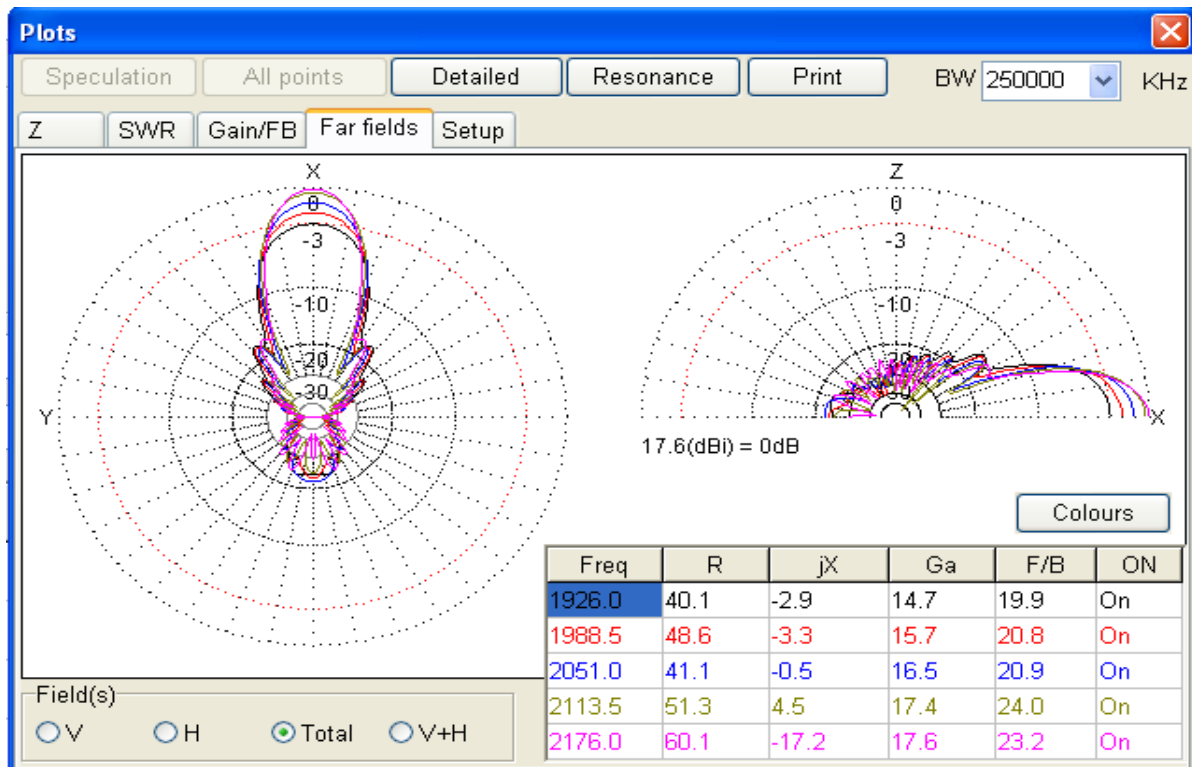
[Visit the Whirlpool wiki for construction techniques](#)

Element No	Form	Cont. (mm)	Interval (mm)	Width (mm)	Notes:	
1	Director	0	0	74	# For the elements use 6mm tube or rod	
2	Driven	26	26	70		
3	Element	38	12	59	# For the boom either use: 1. A non-conductive boom such as electrical plastic conduit or duct (requires support) 2. A 25mm aluminium tube or RHS boom Elements must be insulated from the boom	
4	Element	64	26	57		
5	Element	96	32	54		
6	Element	131	35	53		
7	Element	170	39	53		
8	Element	217	47	51		
9	Element	260	43	50		
10	Element	306	46	50		# See the wiki for conductive boom and element insulation design hints
11	Element	356	50	50		
12	Element	407	51	50	# See Perites original design for dipole to coaxial cable connections	
13	Element	460	53	49		
14	Element	516	56	49		
15	Element	573	57	49		
16	Element	630	57	48		
17	Element	687	57	48		
18	Element	746	59	48		
19	Element	802	56	46		

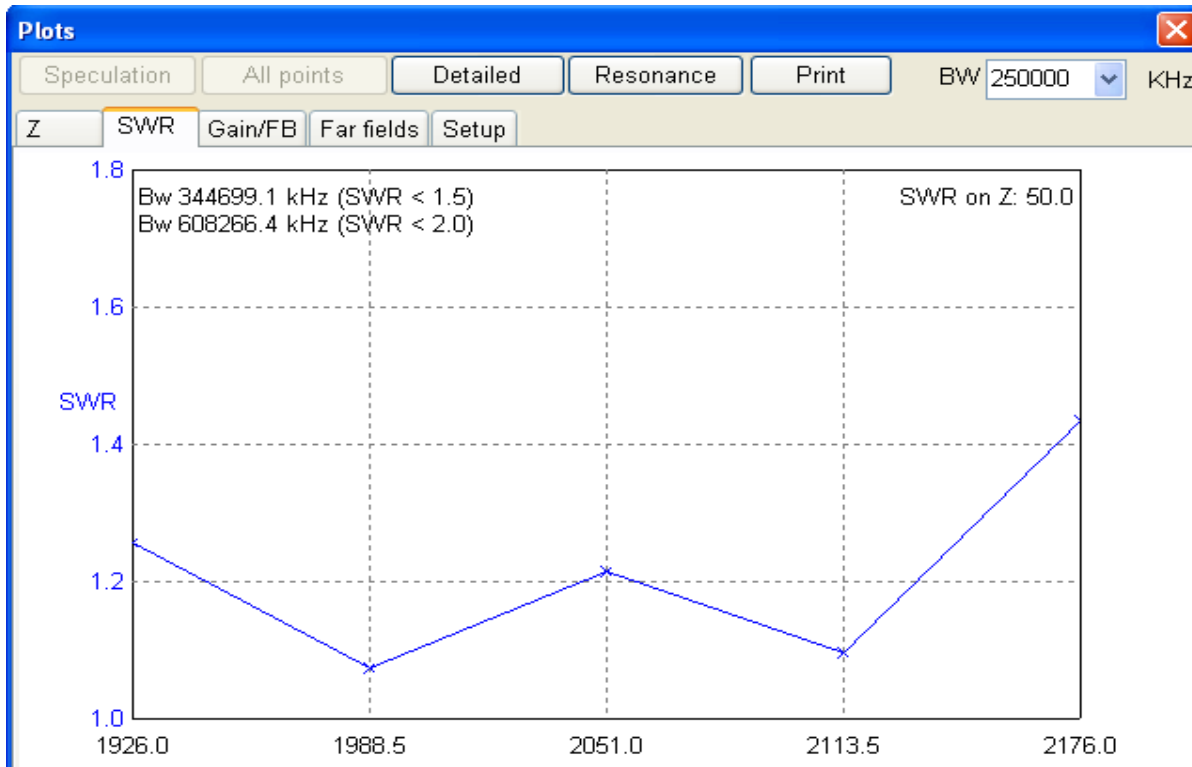
How it looks



Polar plots - Antenna Gain



Return loss - SWR



Gain - Forward Gain is blue, Front to Back ratio is red

