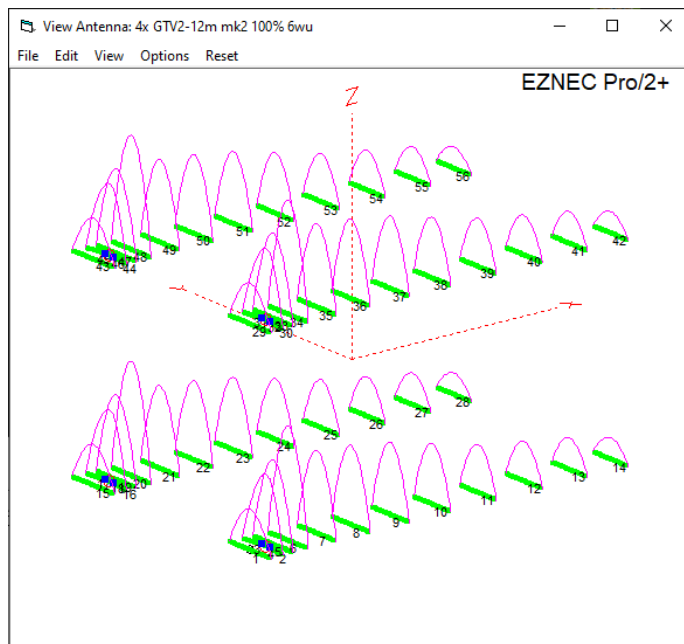
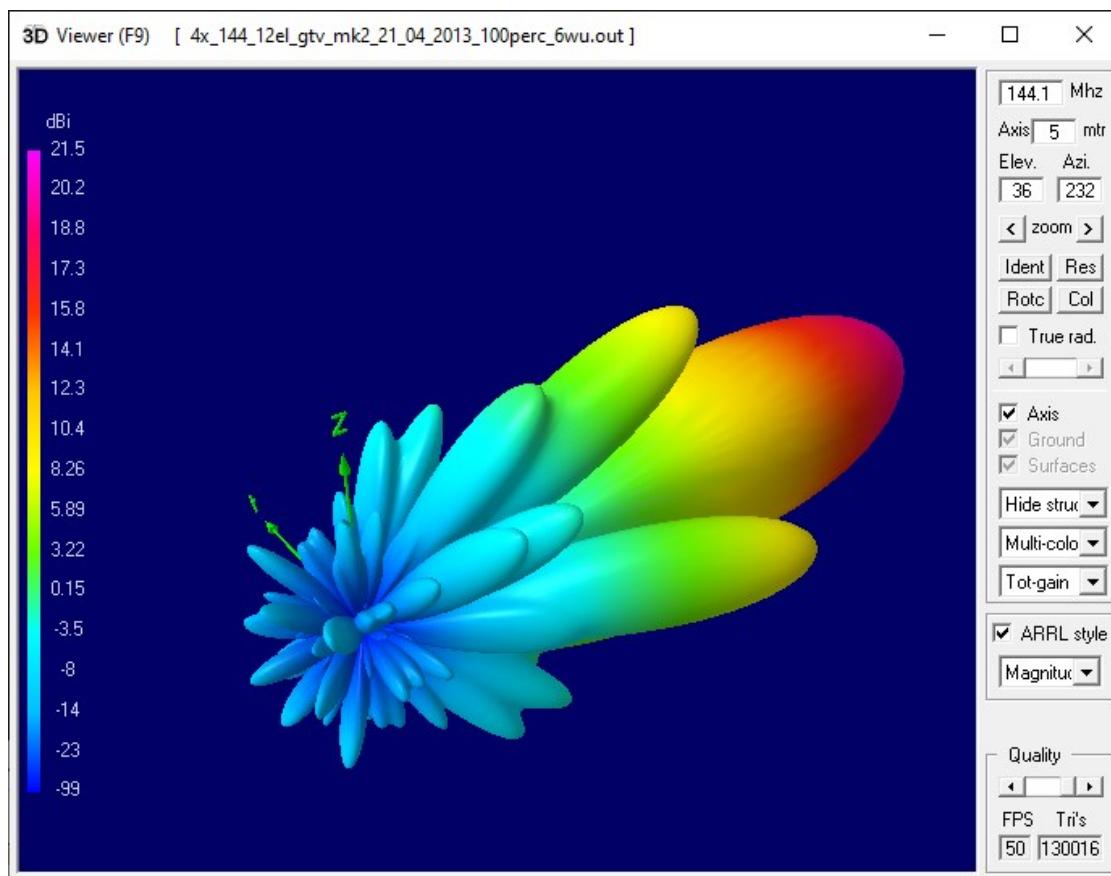


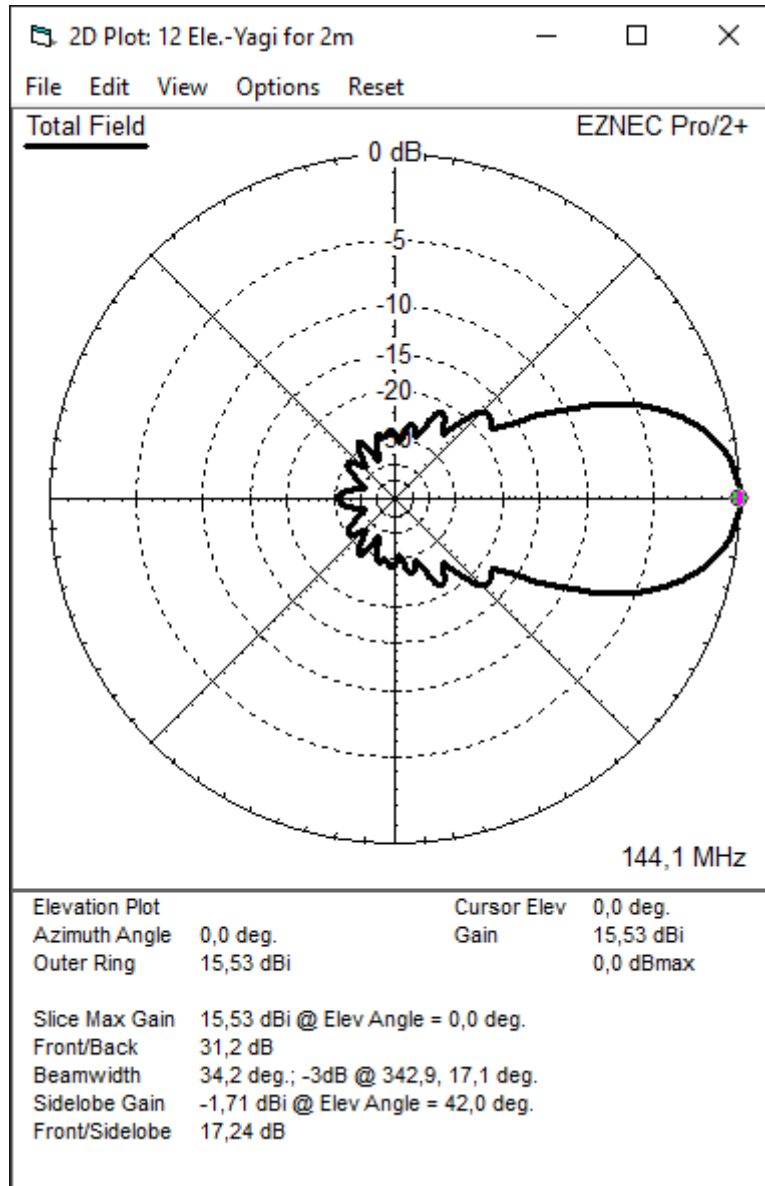


4 x GTV 2-12m mk2, EZNEC wires window

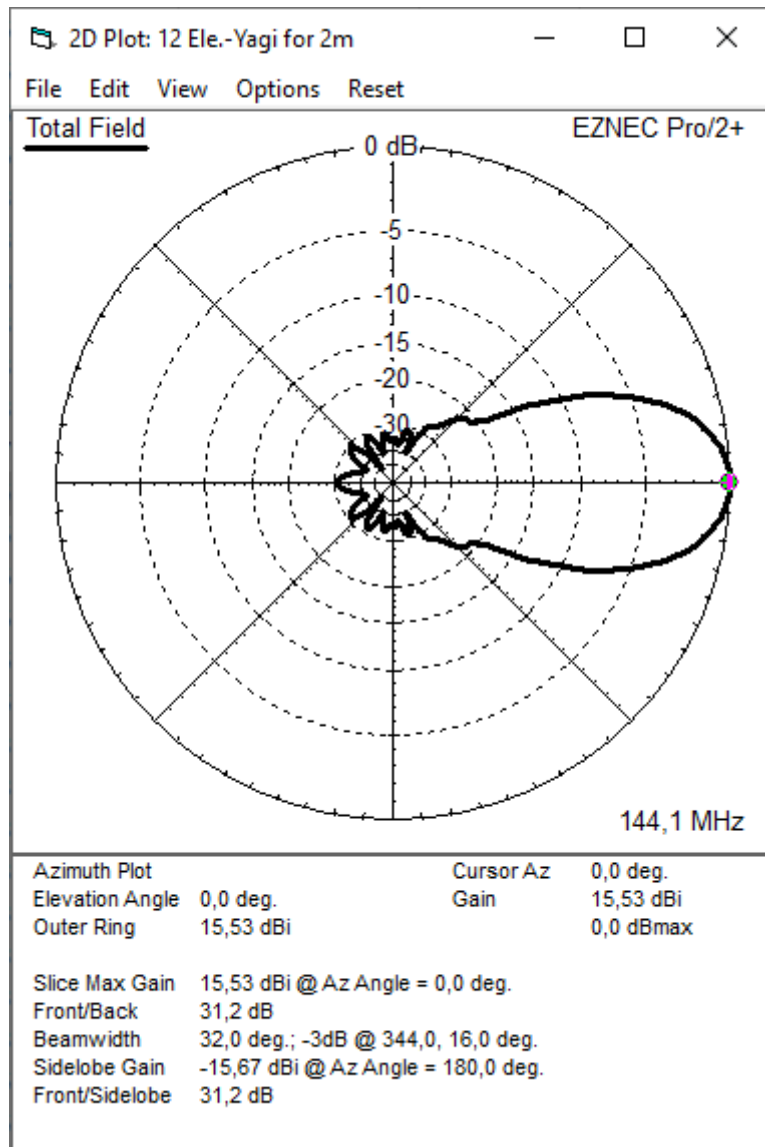


4 x GTV 2-12m mk2, 100% DL6WU, 4nec2 3D viewer

• Single Yagi Data



Elevation radiation plot



Azimuth radiation plot

Elevation HBPW:	34.2°
Azimuth HPBW:	32.0°

110% Stacking distance according DL6WU:

E-plane: 4.151 m

H-plane: 3.891 m

100% Stacking distance according DL6WU:

E-plane: 3.774 m

H-plane: 3.538 m

90% Stacking distance according DL6WU:

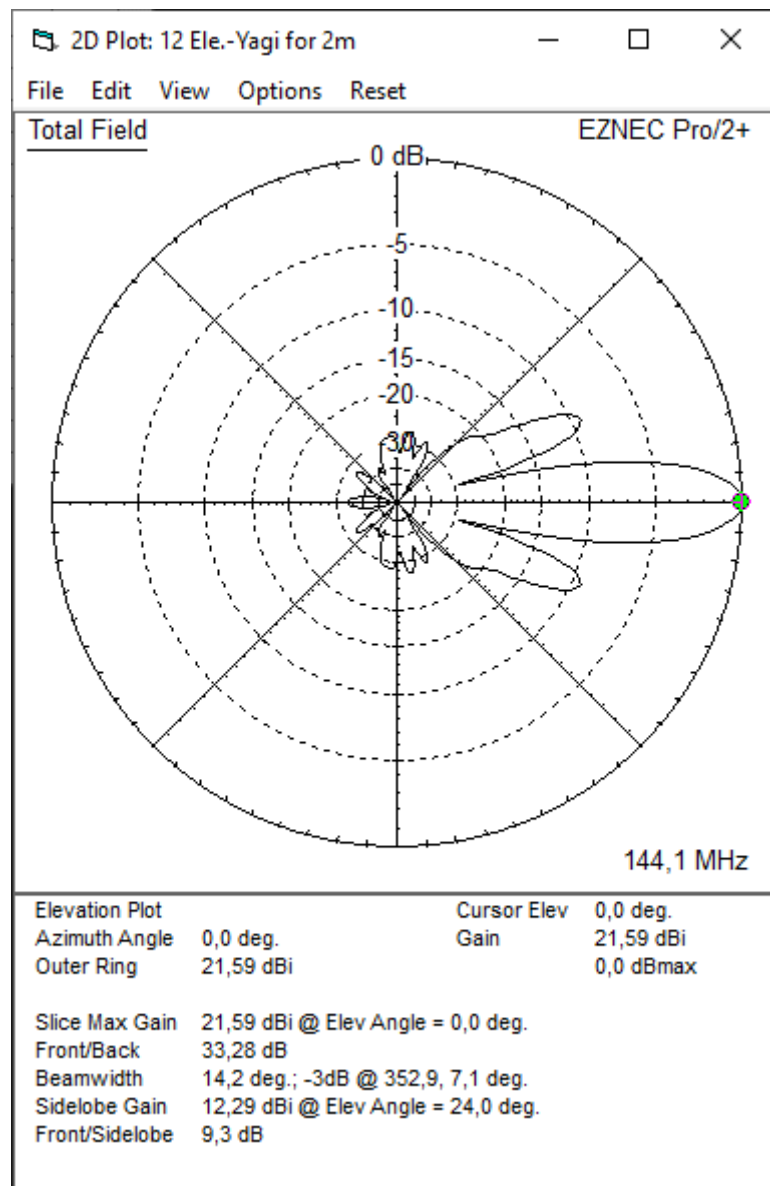
E-plane: 3.396 m

H-plane: 3.184 m

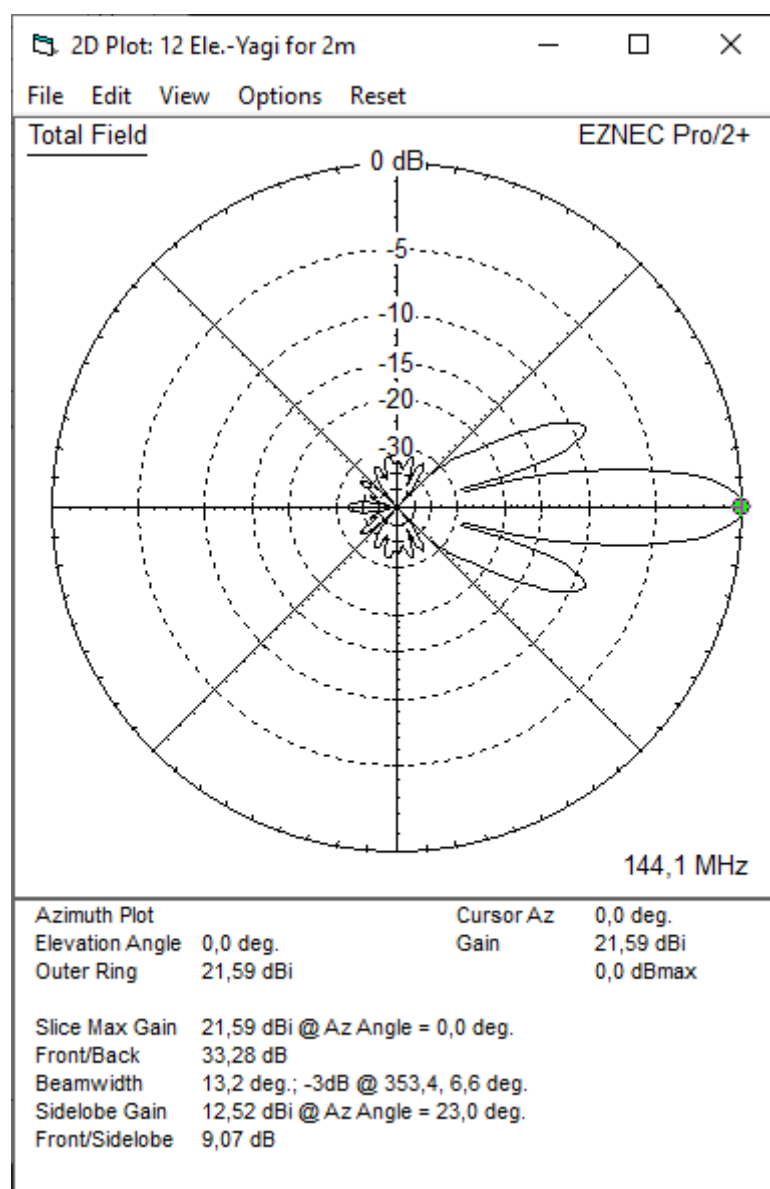
• Radiation plots at 110% Stacking distance according DL6WU

E-plane: 4.151 m

H-plane: 3.891 m



4 x GTV 2-12m mk2, 110% DL6WU, Elevation plot

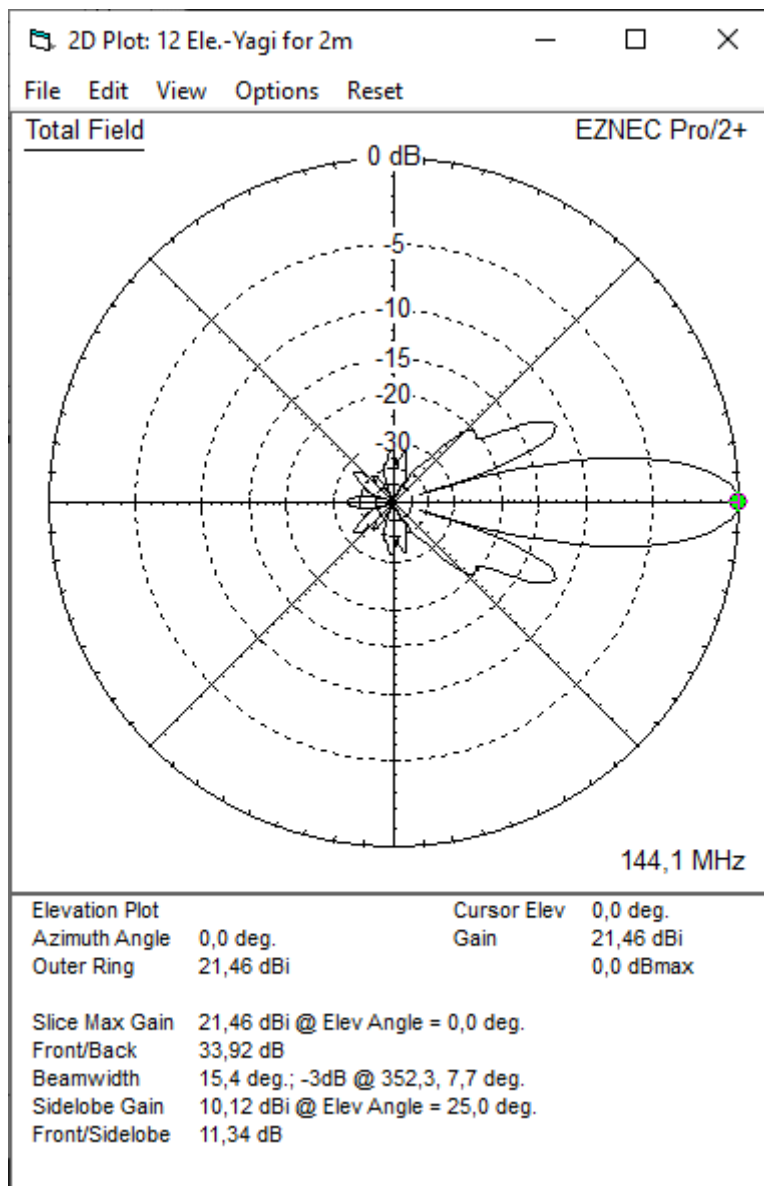


4 x GTV 2-12m mk2, 110% DL6WU, Azimuth plot

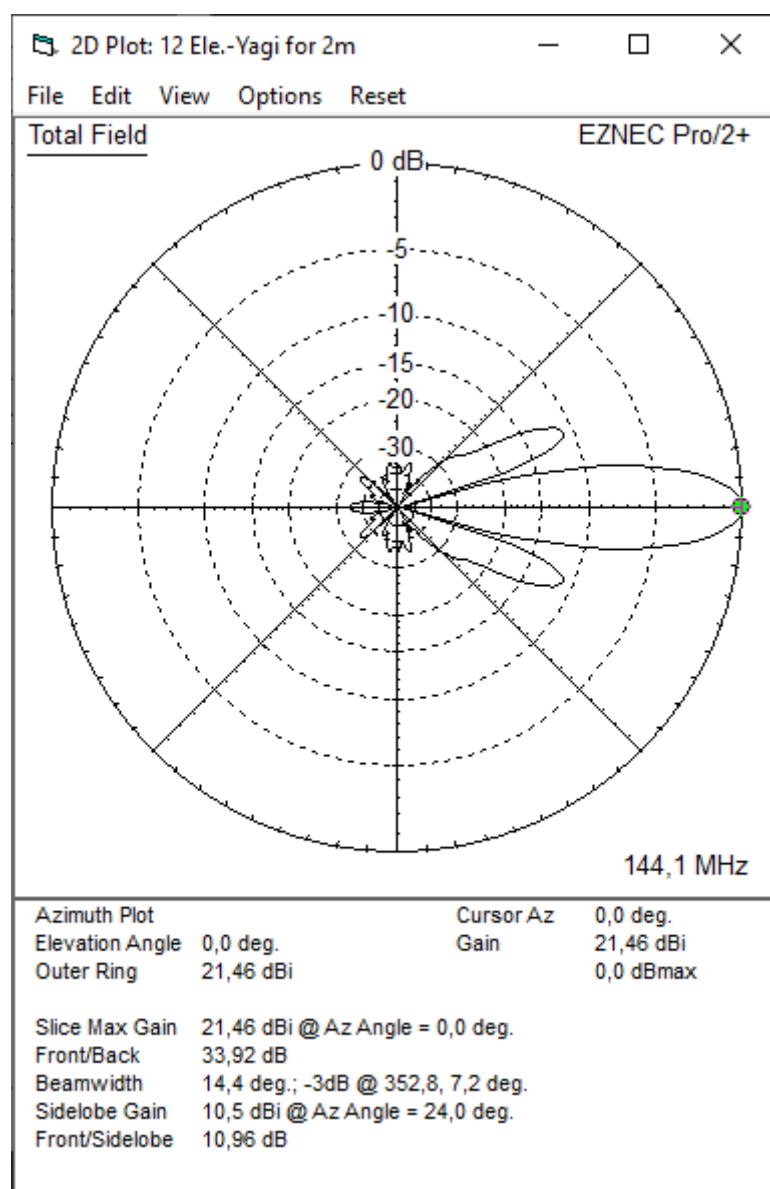
• Radiation plots at 100% Stacking distance according DL6WU

E-plane: 3.774 m

H-plane: 3.538 m



4 x GTV 2-12m mk2, 100% DL6WU, Elevation plot

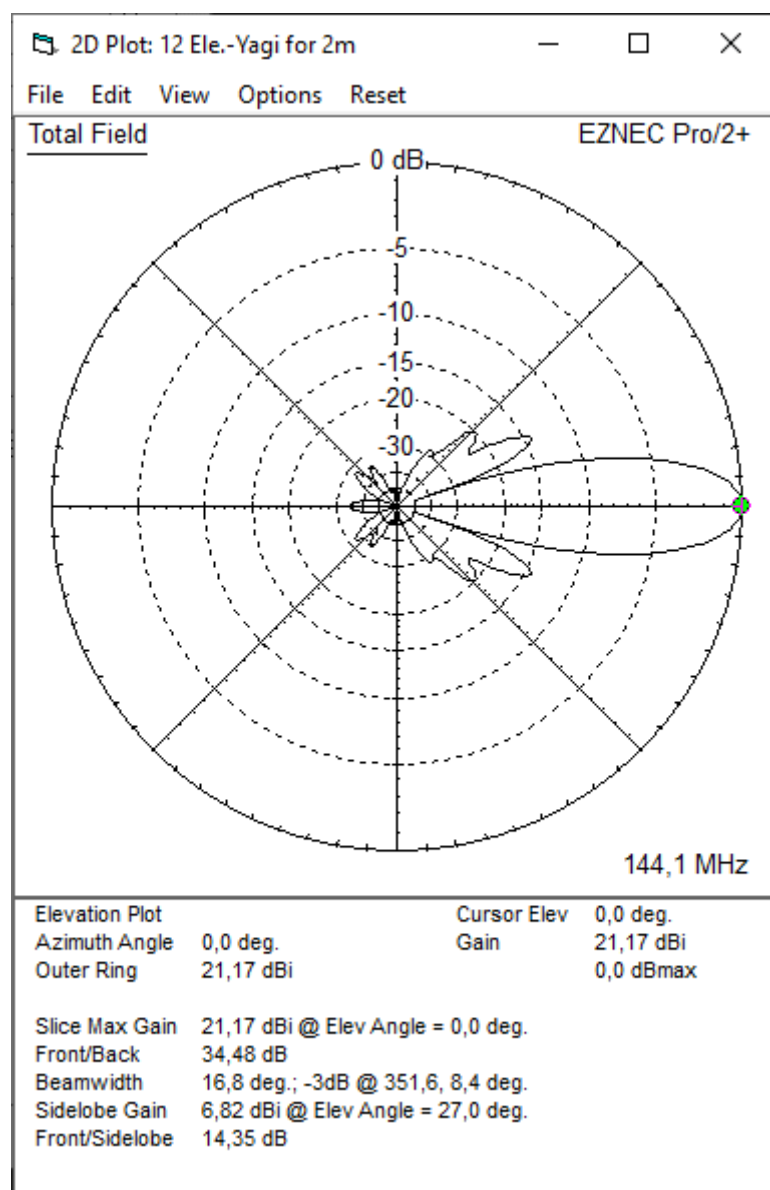


4 x GTV 2-12m mk2, 100% DL6WU, Azimuth plot

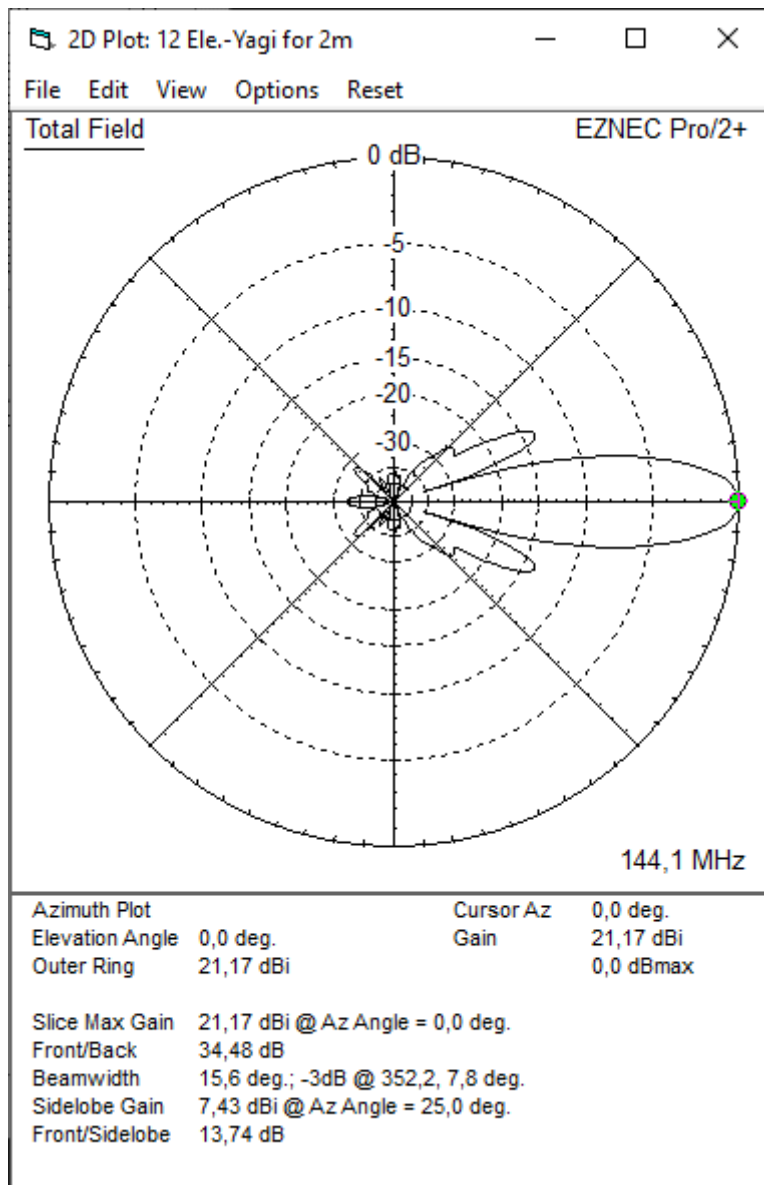
• Radiation plots at 90% Stacking distance according DL6WU

E-plane: 3.396 m

H-plane: 3.184 m

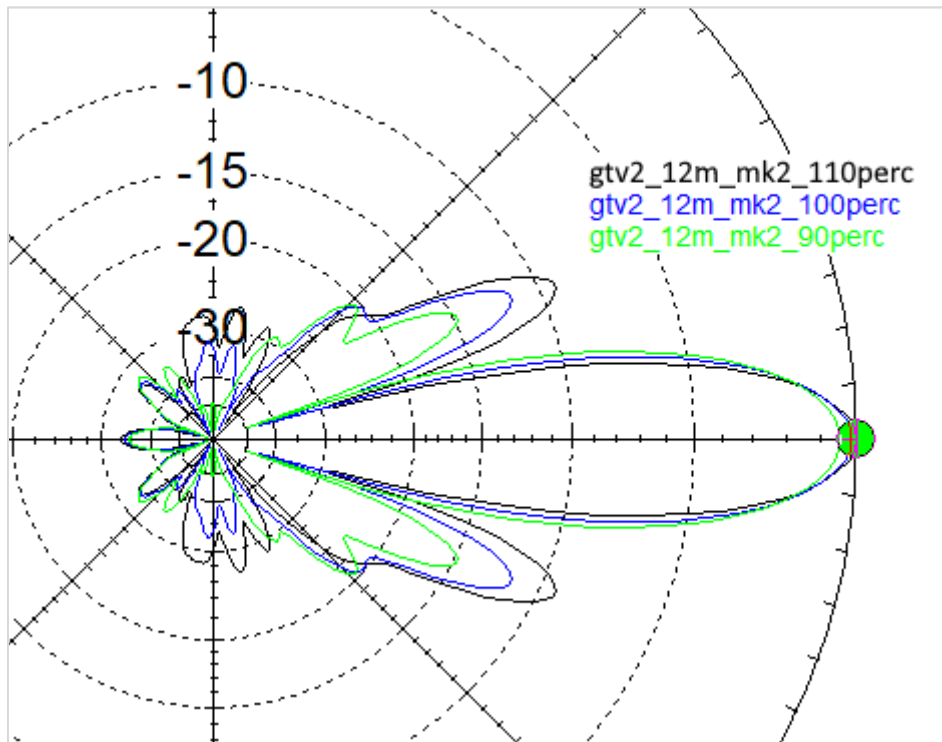


4 x GTV 2-12m mk2, 90% DL6WU, Elevation plot



4 x GTV 2-12m mk2, 90% DL6WU, Azimuth plot

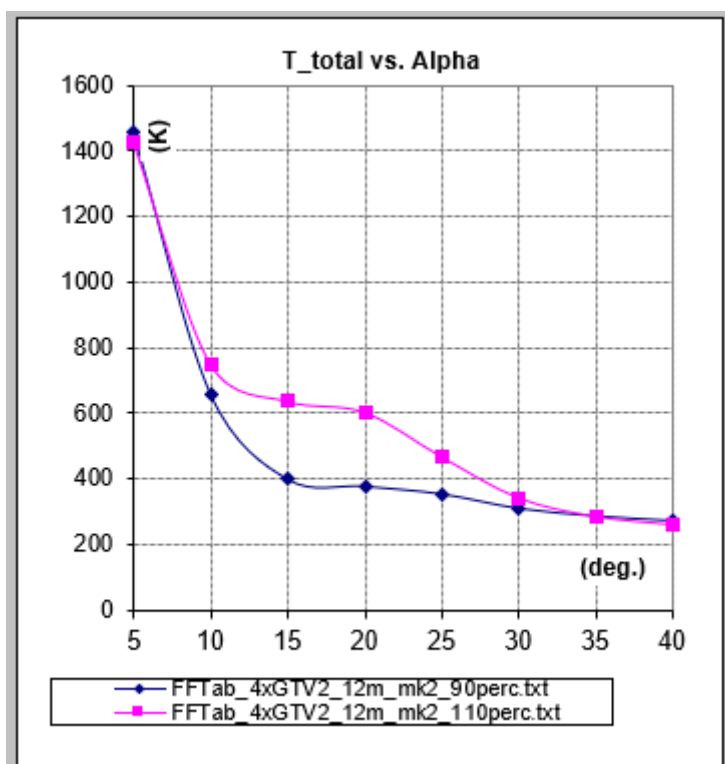
• Comparison



Overlay, Elevation patterns at 90%, 100%, 110% of Stacking Distances per DL6WU

Stacking distance according DL6WU >			90%	100%	110%
		G (dBi)	21.17	21.46	21.59
Tearth (K)	Tsky (K)				
1600	200	Ttotal (K)	230.39	235.02	239.53
		G/Ta (dB)	-2.455	-2.251	-2.201
5400	200	Ttotal (K)	308.36	325.92	342.97
		G/Ta (dB)	-3.715	-3.662	-3.749
9000	200	Ttotal (K)	381.52	410.64	438.88
		G/Ta (dB)	-4.645	-4.675	-4.833

Table: Gain at 90%, 100%, 110% of Stacking Distances per DL6WU,
Ttotal & G/Ta at Tearth = 1600 K, 5400 K, 9000 K



Comparison: T_{total} over α (Antenna elevation);

90% vs. 110% of Stacking Distances per DL6WU at $T_{earth} = 5400$ K, $T_{sky} = 200$ K