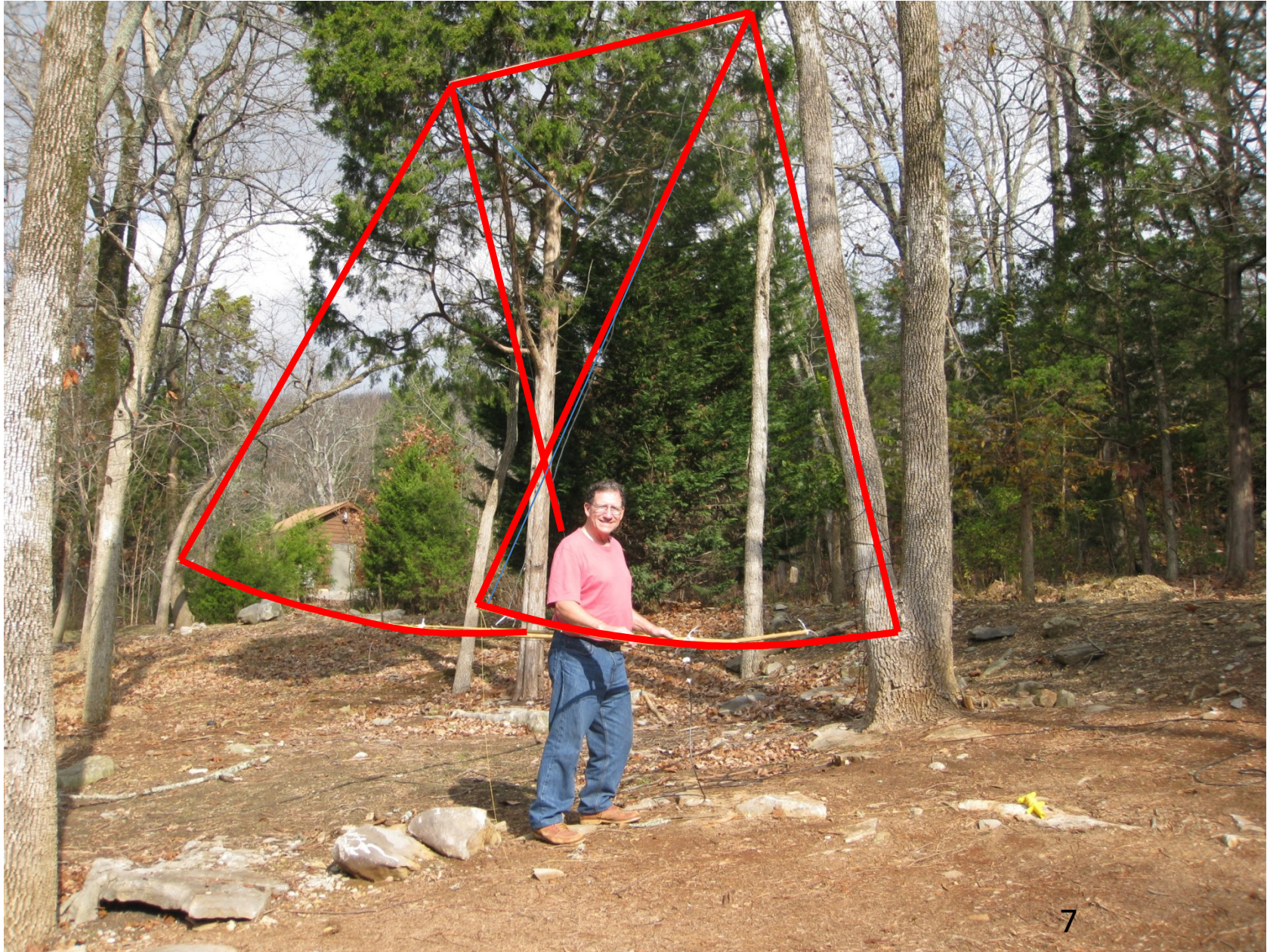
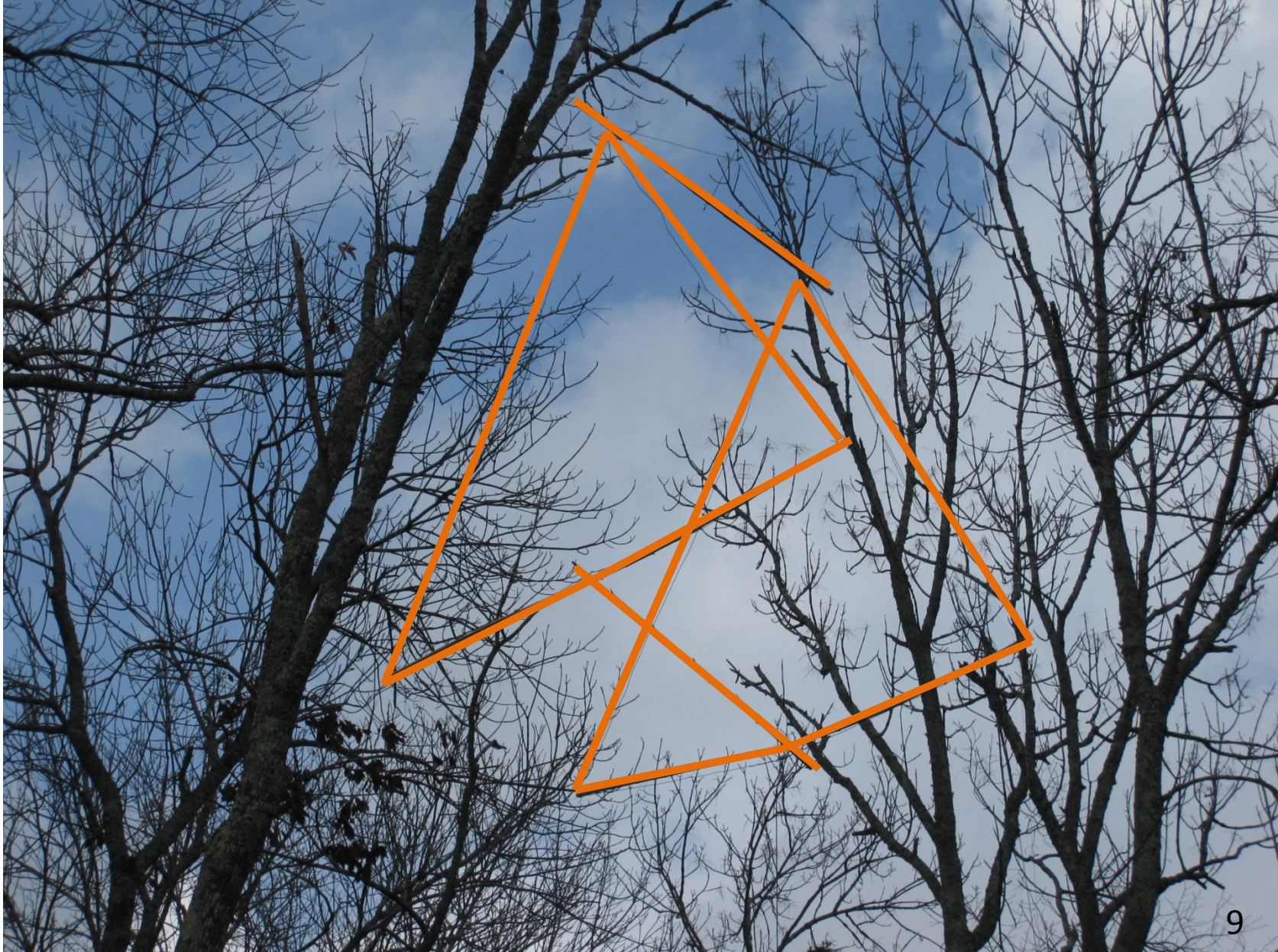
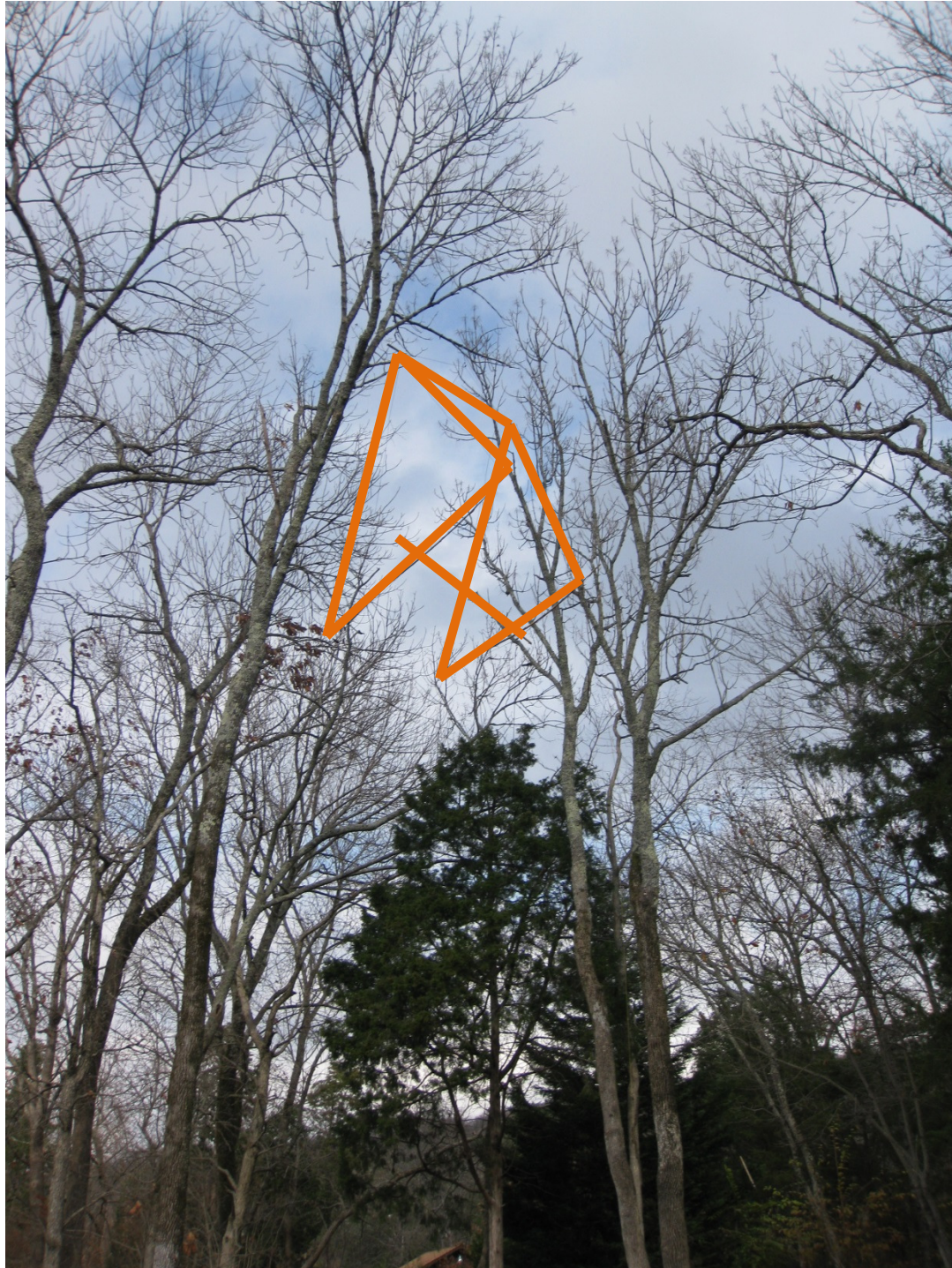


Build it



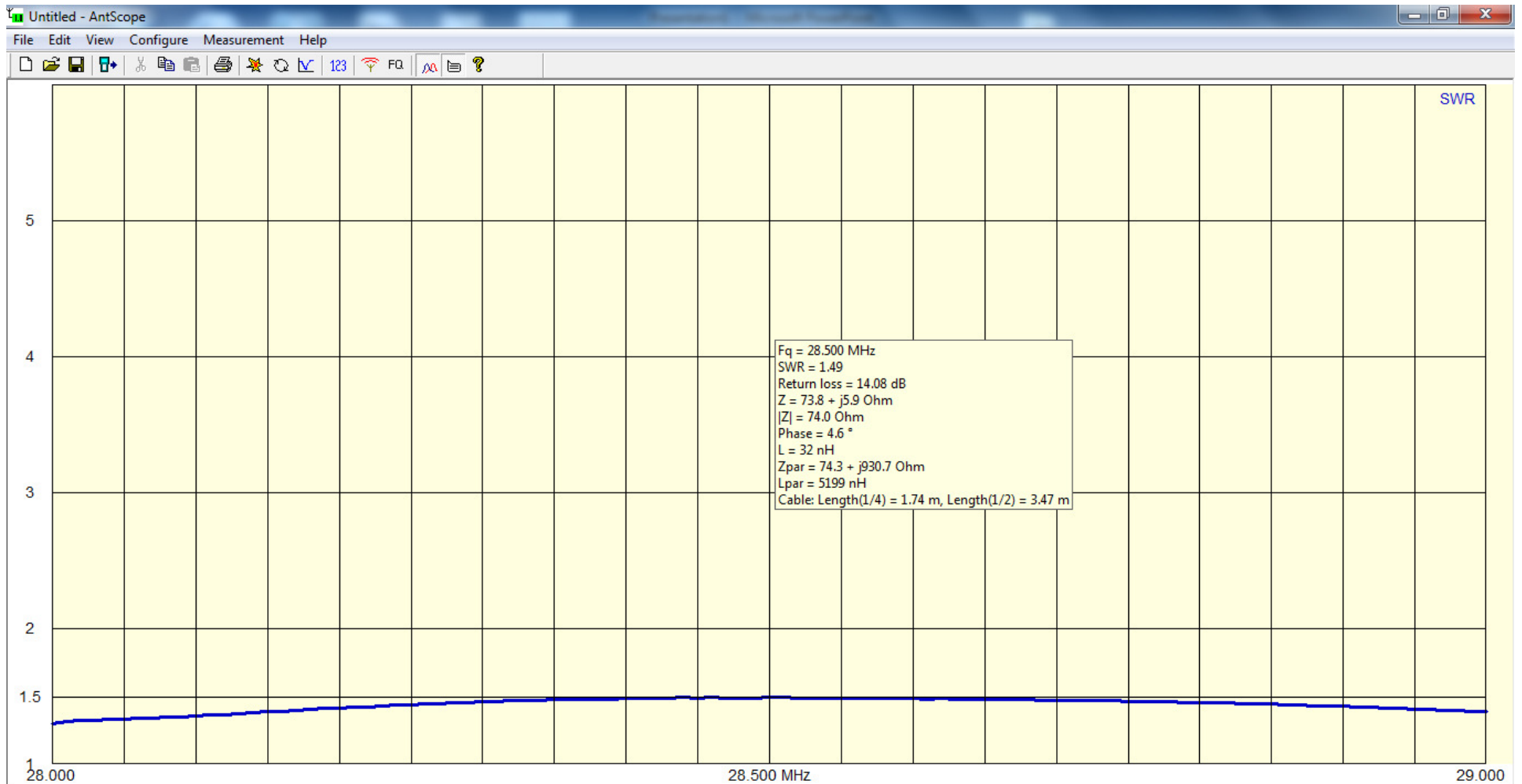
Install It





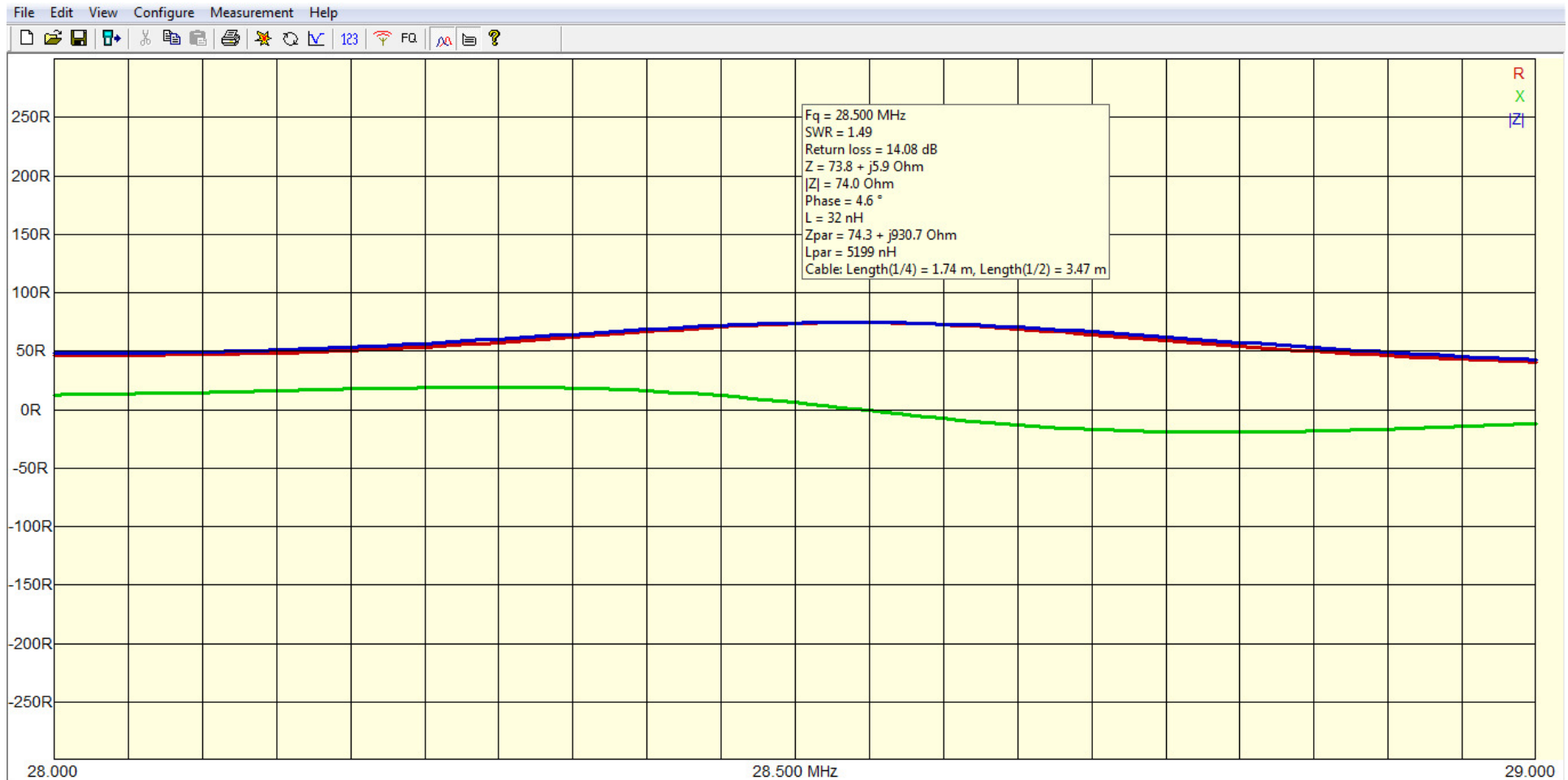
Make it Work

Initial As-Built/Installed SWR



Make it Work

Initial As Built/Installed Impedance



But then...





The "Weak Limb"

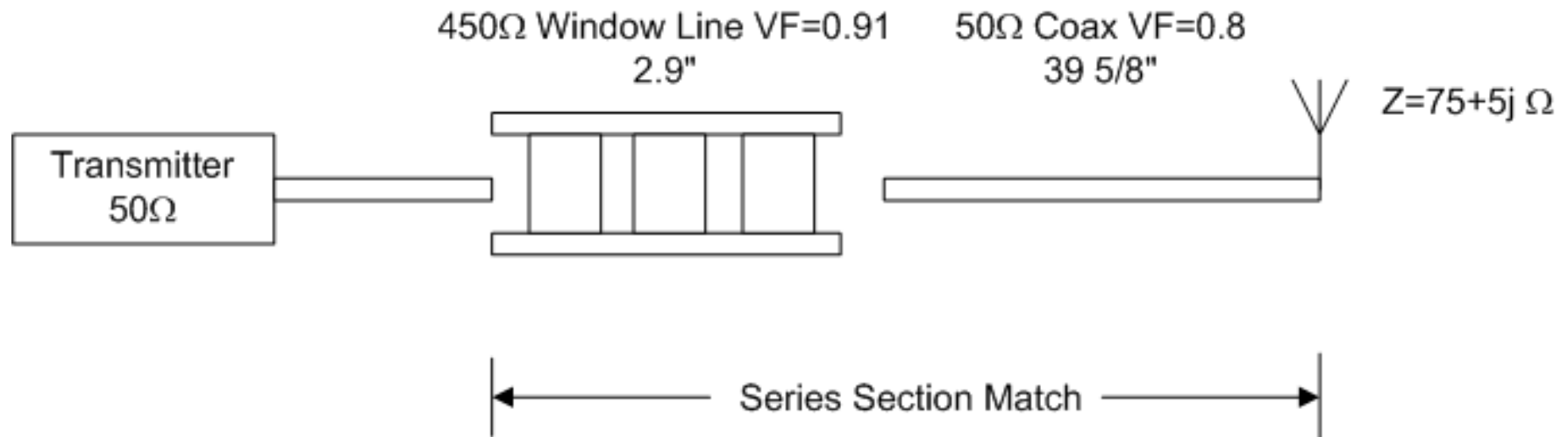
I am glad it broke
BEFORE the contest!

Make it Work Again

- As long as the antenna is down, lets address SWR.
- Original as-built SWR matched design SWR of 1.5:1.
- Wish to improve match, so tuner is not required and coax losses due to SWR are minimized.
- This may be “gilding the lily”, but it’s an interesting exercise.

Make it Work Again

- A tuned-section match consisting of a length of 50Ω coax and 450Ω window line was used to match to the 75Ω antenna.



Make it Work Again



Entire Series Section Match

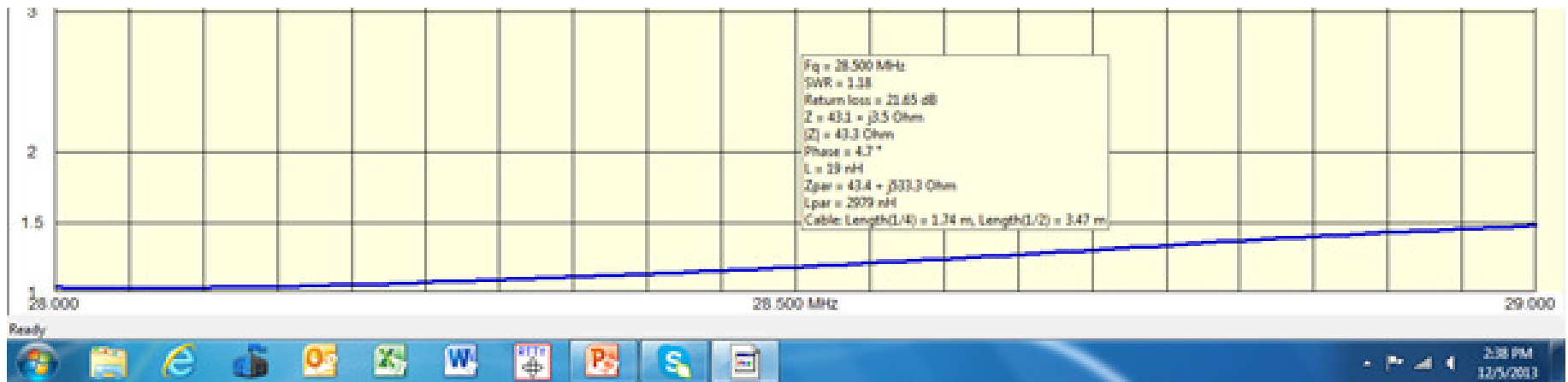


Window-line Part

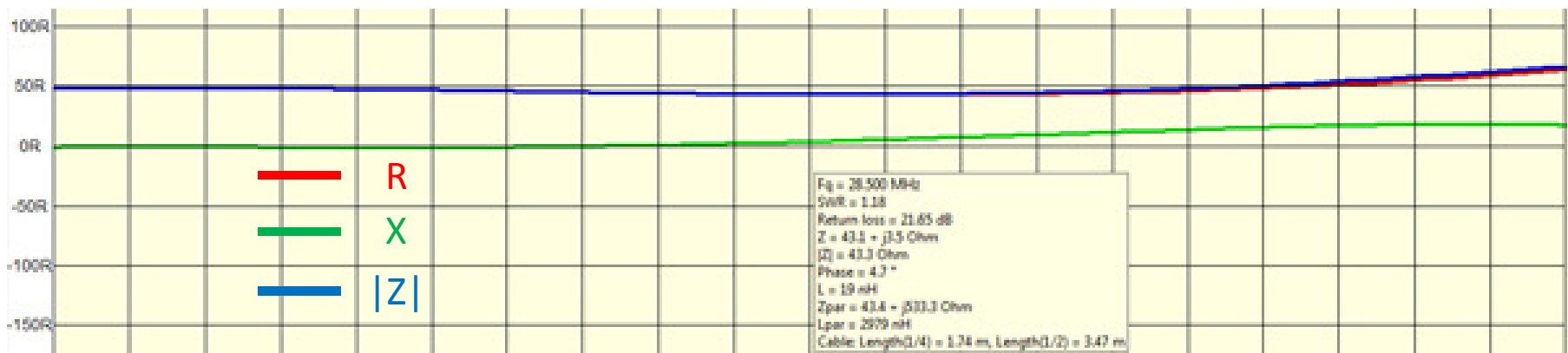
Coaxial Part



Final Measurements, as Installed



SWR = 1.035:1



Impedance = 48.3+j0.5 Ω

Results – 54 Countries Total

AF	AS	EU			NA	OC	SA
CN	JA	9A	GM	OM	HI	VK	CE
D4	UA9	CT	GU	ON	KP2	ZL	CX
V5		DL	HA	OZ	KP4	ZL9	HK
		EA	I	PA	TG		LU
		EI	LX	S5	TI		OA
		ES	LY	SM	VP2V		PJ2
		EU	LZ	SP	YN		PY
		F	OE	TK			PZ
		G	OH	YO			YV
		GJ	OK	YU			
3	2		30		7	3	9