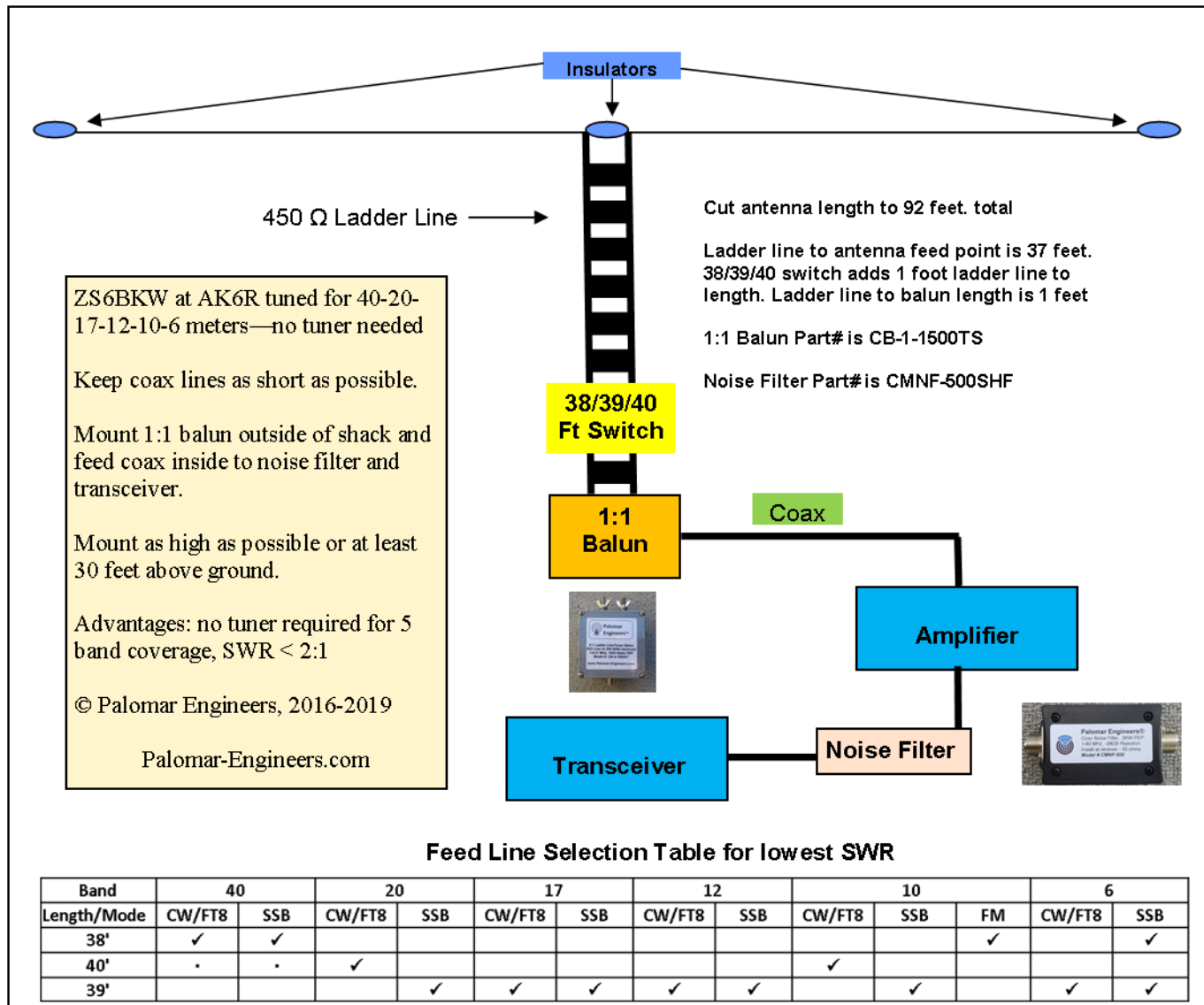


ZS6BKW Antenna at AK6R

My ZS6BKW Antenna

In my search for a multi-band antenna, I came across the ZS6BKW antenna which has proven to be a real winner at my station. Lots of DX, no antenna tuner, only 92 feet wide and easy to switch bands. I used the ladder line lengths suggested by W5DXP (<http://w5DXP.COM>) and the antenna has performed great especially on all my FT-8 contacts from 40-10 meters. The Antenna was specifically tuned for the lower CW or FT-8 frequencies on 40-20-17-12-10-6 meters but will cover the SSB and FM portion of the bands with a switchable feed line length.

Here is how it all went together:



Ladder line to balun hooked to center contacts of switch. Actual ladder line length from antenna to switch is 37 feet. In table form the lowest SWR for the band/modes are shown below:

ZS6BKW Antenna at AK6R

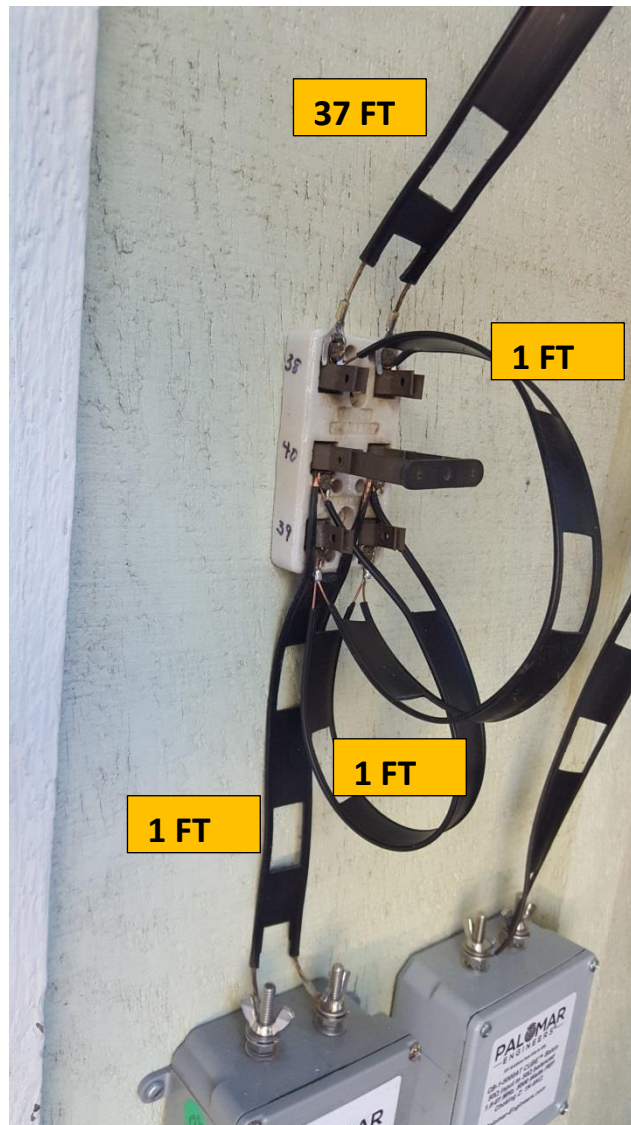
Here are some of the parts I used:



Palomar Engineers 1:1 Balun – CB-1-1500 for 1500 watts on FT8. Effective range is 1.8-61 MHz so allows 6 meter operation on the antenna



Coaxial Switch bypass tuner used on 80 meters only

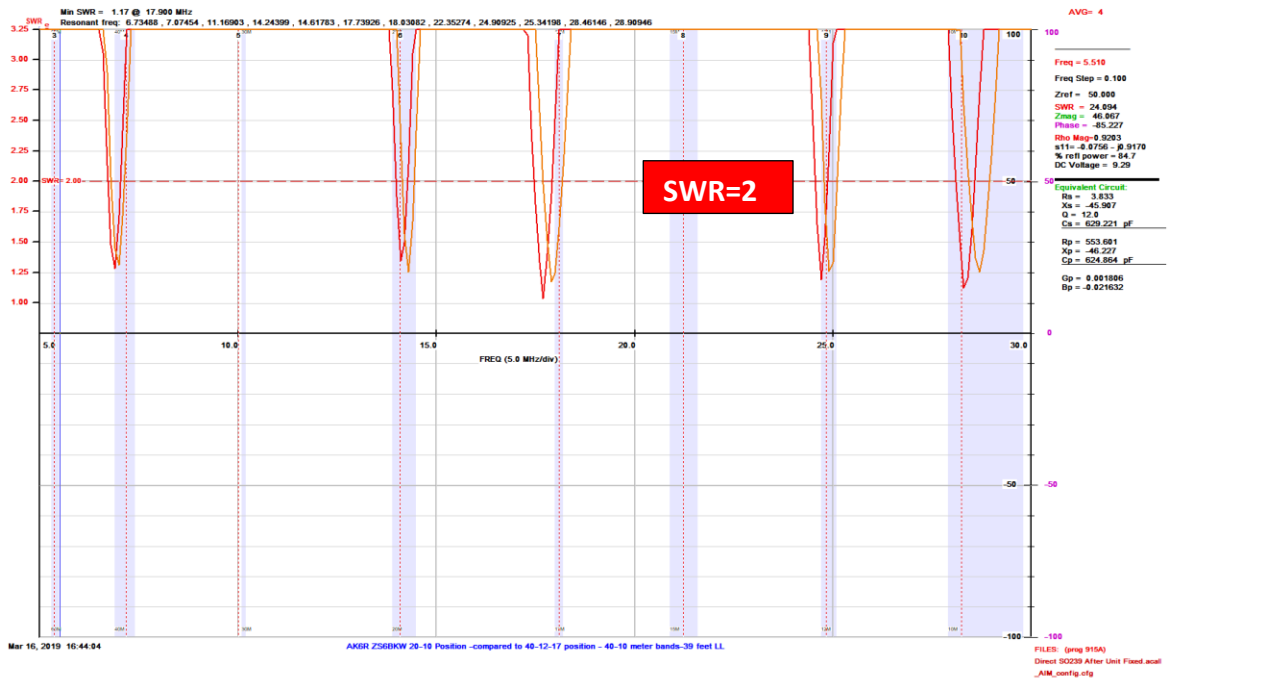


ZS6BKW Antenna at AK6R

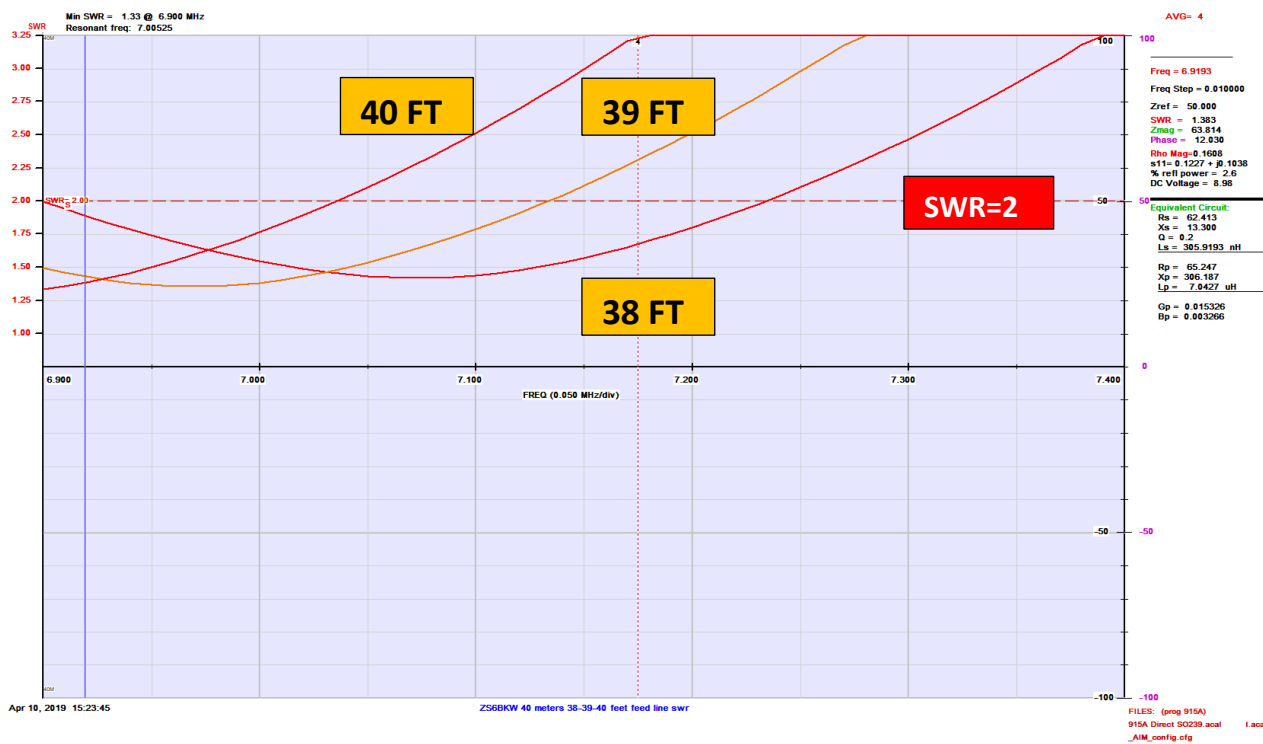
Ladder Line length adjustment switch. In "38" position length is 38 feet total to balun. Note switch to balun is 12 inches and 1 foot extra added at switch when in "38" position and 2 Feet in "40" position.

SWR Measurements from AK6R ZS6BKW measured after 8 feet of coax from 1:1 balun:

Overall 40-10 frequency range with 39 or 40 feet ladder line.

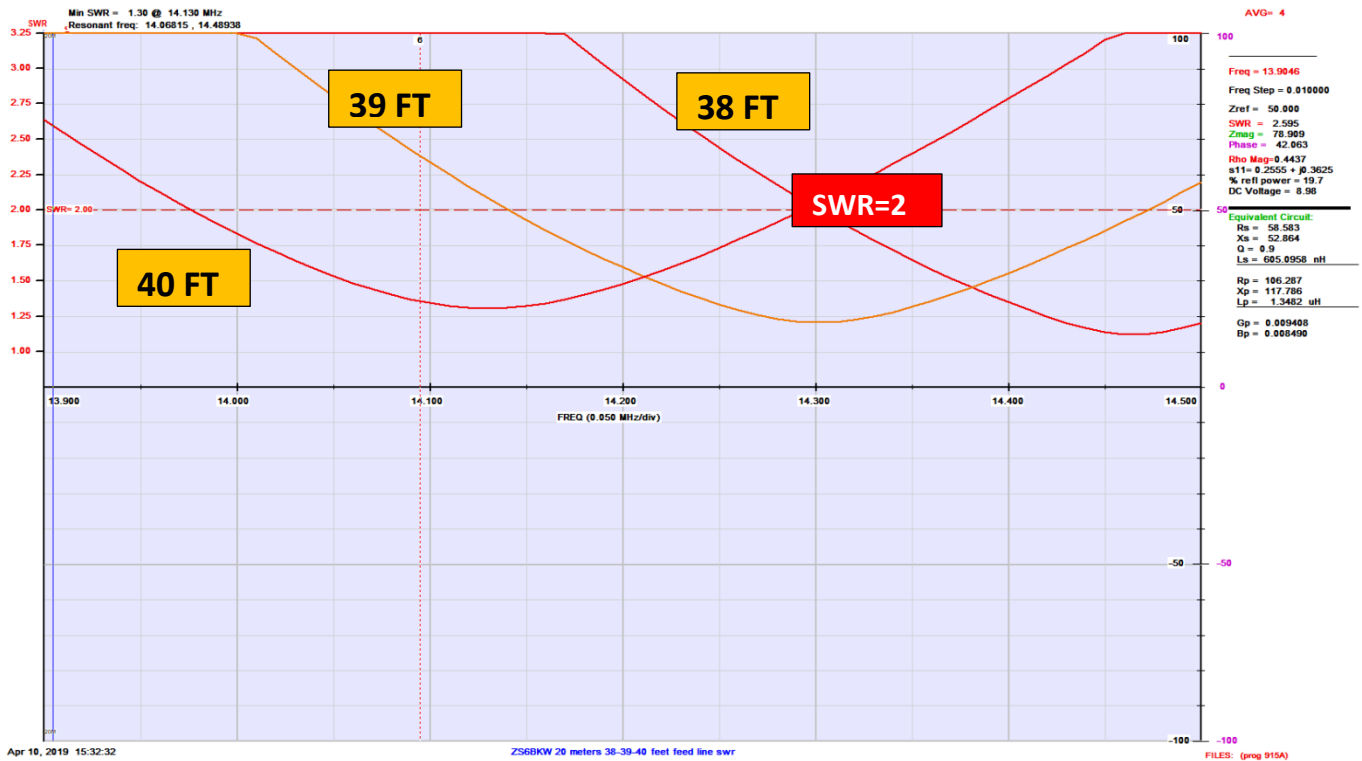


40 meters

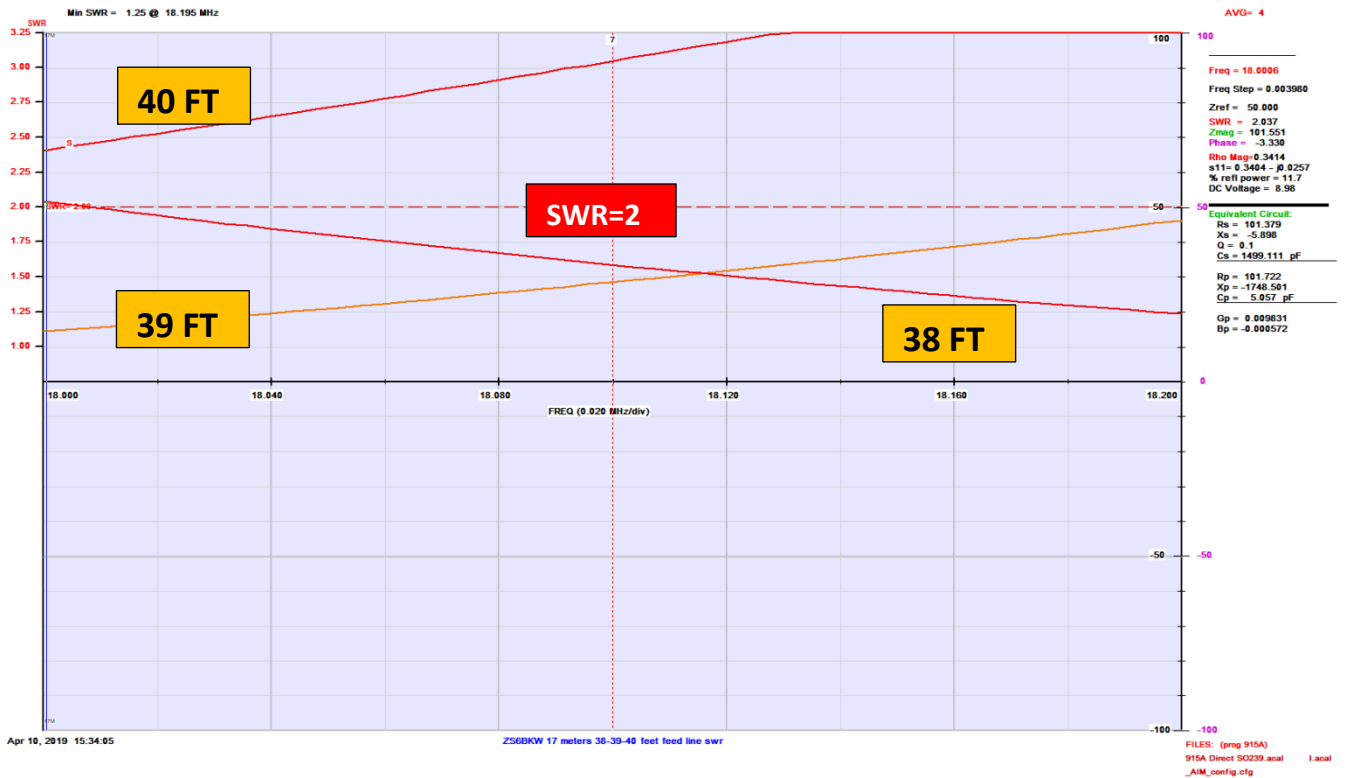


ZS6BKW Antenna at AK6R

20 meters

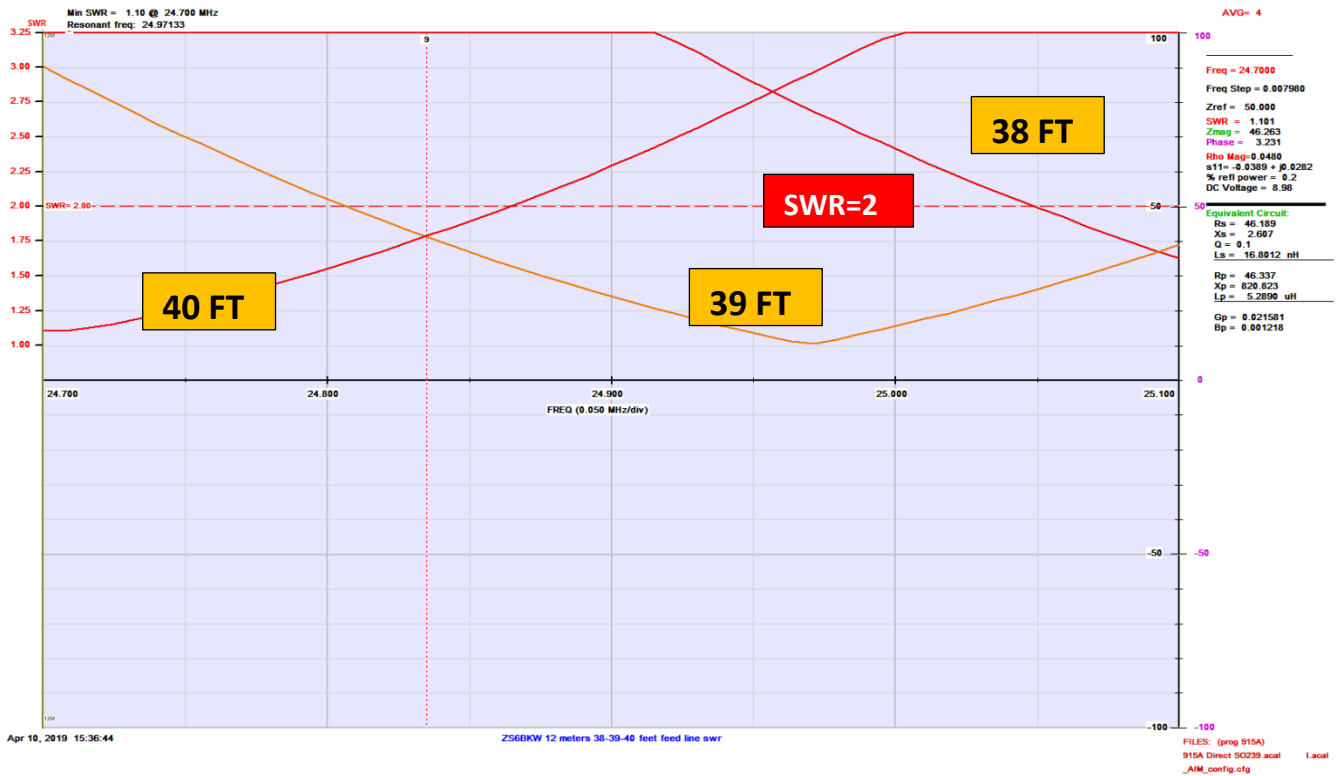


17 meters

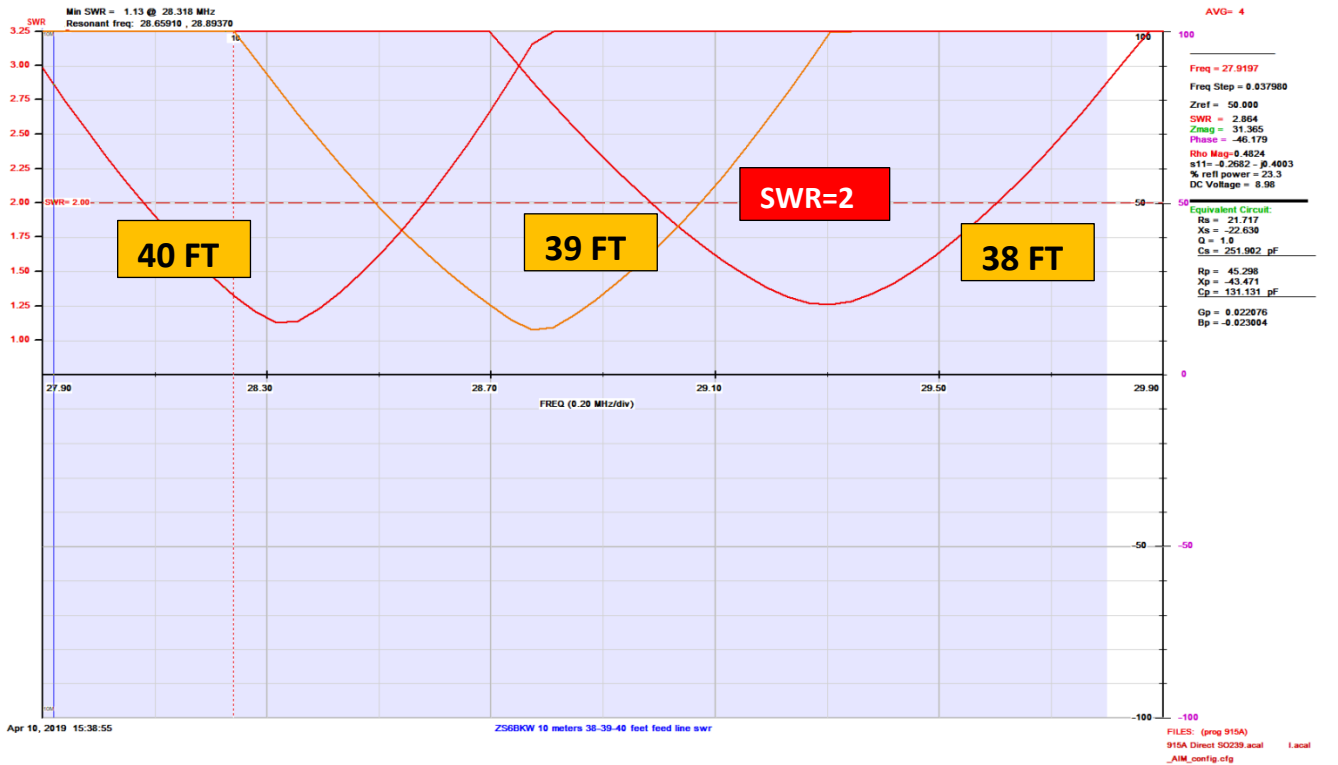


ZS6BKW Antenna at AK6R

12 meters



10 meters



ZS6BKW Antenna at AK6R

6 meters

