

Sweep:

Measure +/- 30 kc , 5 kc increments.

Multiply Delta DIAL X by Freq to get reactance.

Input sweep: +/- 15 kc, 5 kc increments

Example:

WXVA, 10/27/89

1520	33.5 + j327.6	
1525	34.9 + j218.0	
1530	37.0 + j338.9	
1535	40.0 + j346.9	
1540	42.2 + j351.1	
1545	44.1 + j361.5	
1550	47.0 + j365.0	*****
1555	49.9 + j375.1	
1560	54.0 + j382.2	
1565	57.9 + j392.8	
1570	62.0 + j403.5	
1575	67.0 + j412.6	
1580	74.0 + j421.9	

According to George, this situation calls for a -72 to 79 degree network.

Start:

Set X1 (input) at +j40.24 (DIAL +26)
Set X2 (output) at -j328 (DIAL -212)
Set X3 (shunt) at -49.77 (DIAL -32)

This gives first run of:

1545	45.8 +j6.3	Rp= 46.6	
1550	50		Ratio = .868
1555	55.0 -j9.5	Rp= 53.63	

Final run was:

1545	50.3 +j8.49	Rp= 51.73	
1550	50		Ratio = .9157
1555	45.8 -j8.49	Rp= 47.38	

According to George, this could be improved by series resonant circuit (at transmitter) of 200pf and 53uh coil.