Bird®
The RF Experts

Bird® SiteHawk™

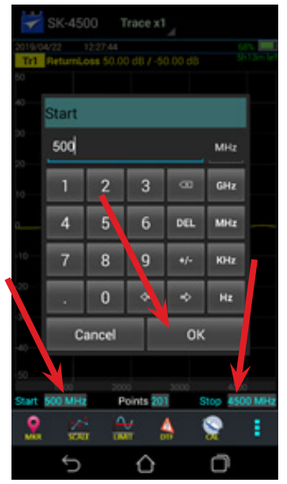
QUICK START GUIDE

MEASURE/MATCH

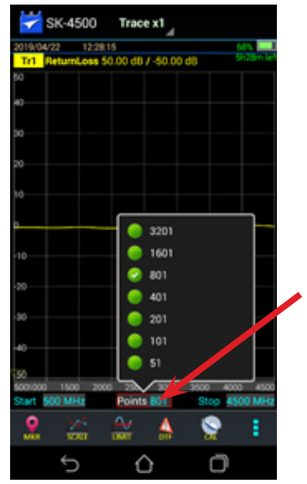
Measures how well all the components in a system are matched to 50 Ω. Results are given in VSWR or Return Loss (dB).
Use Markers and Limit Line. Enter frequency range to sweep, select number of data points, Calibrate using the Calibration Combo.

1. Select Mode of operation by tapping here, then make your selection.

2. Set the Start & Stop frequency range
3. Enter the frequency
4. Press OK

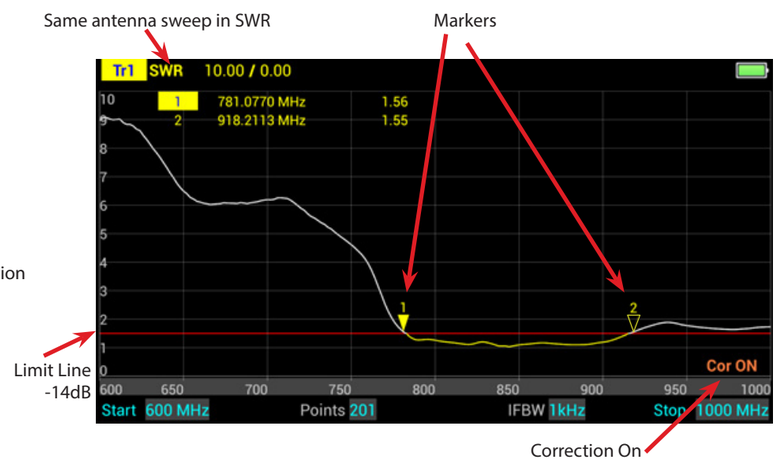


5. Select number of data points by tapping here and making your selection.
6. Calibrate - see calibrating the SiteHawk

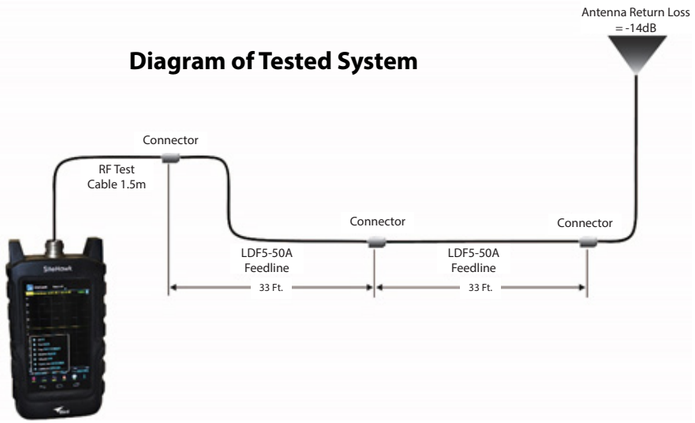


EXAMPLES OF AN ANTENNA FREQUENCY RESPONSE SWEEP IN RETURN LOSS AND VSWR.

Using Markers and a limit line allows for a quick and accurate reading. Nothing has been changed in each sweep except for the Mode from ReturnLoss to SWR.

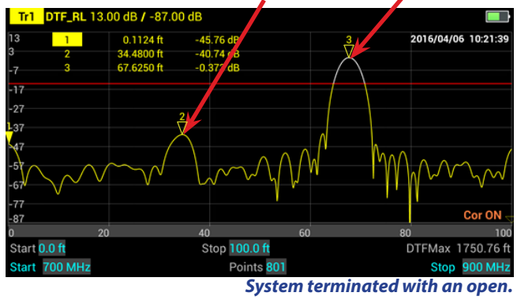


DISTANCE TO FAULT EXAMPLES



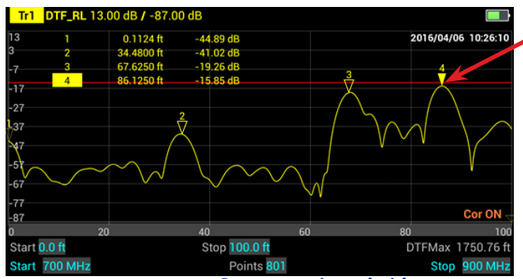
Non-precision barrel connection

Open



System terminated with an open.

Antenna



System terminated with an antenna.

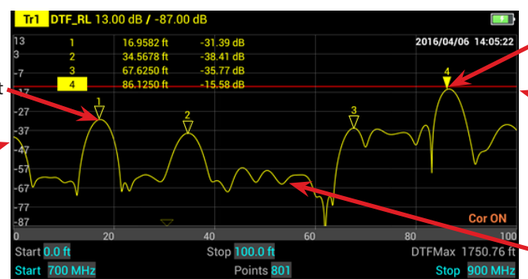
Fault

Connection to SiteHawk

Antenna

Limit Line at -14dB

Feed Line



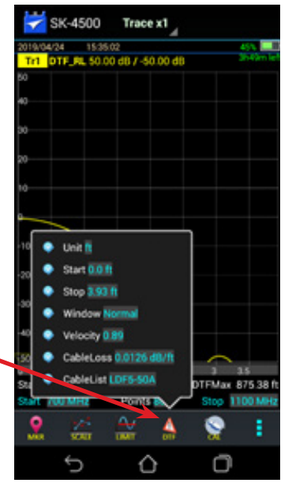
System as in diagram, but with some type of fault.

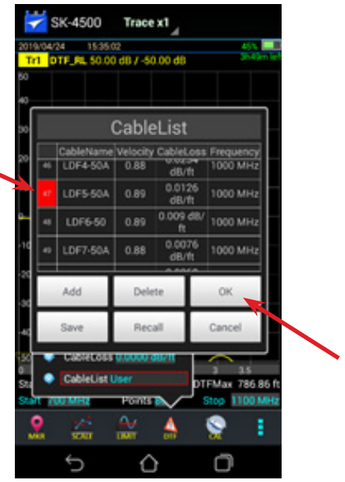
DISTANCE TO FAULT

Distance to Fault (DTF) will pinpoint where the problem occurs.
Need to know the frequency of operation, cable type, and the distance from the transmitter to the antenna.
Add 10-20% additional length to the Stop Distance. It is also very helpful to have a diagram of your system so that components can be identified.
It is not always possible to have such a diagram.

1. Select DTF_RL or DTF_SWR mode.
2. Select Points. (See step 5 of measure match).
3. Set start and stop frequency. Refer to step 2 in measure/match.

4. Select DTF Units (meters or feet), stop distance, and cable info (manually or from list) by tapping on the DTF icon.
5. Calibrate - see below.

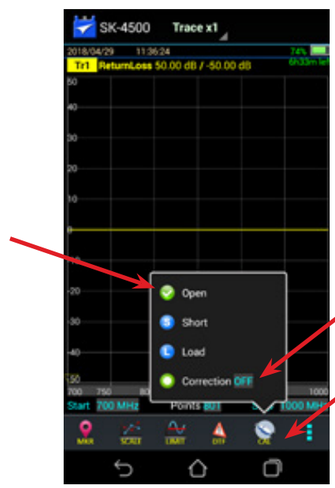




CALIBRATING THE SITEHAWK

1. Tap on the CAL icon
2. Connect the OPEN to the test port. Press OPEN
3. Unit sweeps & GREEN circle appears
4. Repeat for SHORT & LOAD. Correction ON appears

Leave load attached & sweep should be at -50dB or better indication a good calibration.



CAL icon

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