Temperature Calibration for the KX3-PX3

Doug Millar K6JEY

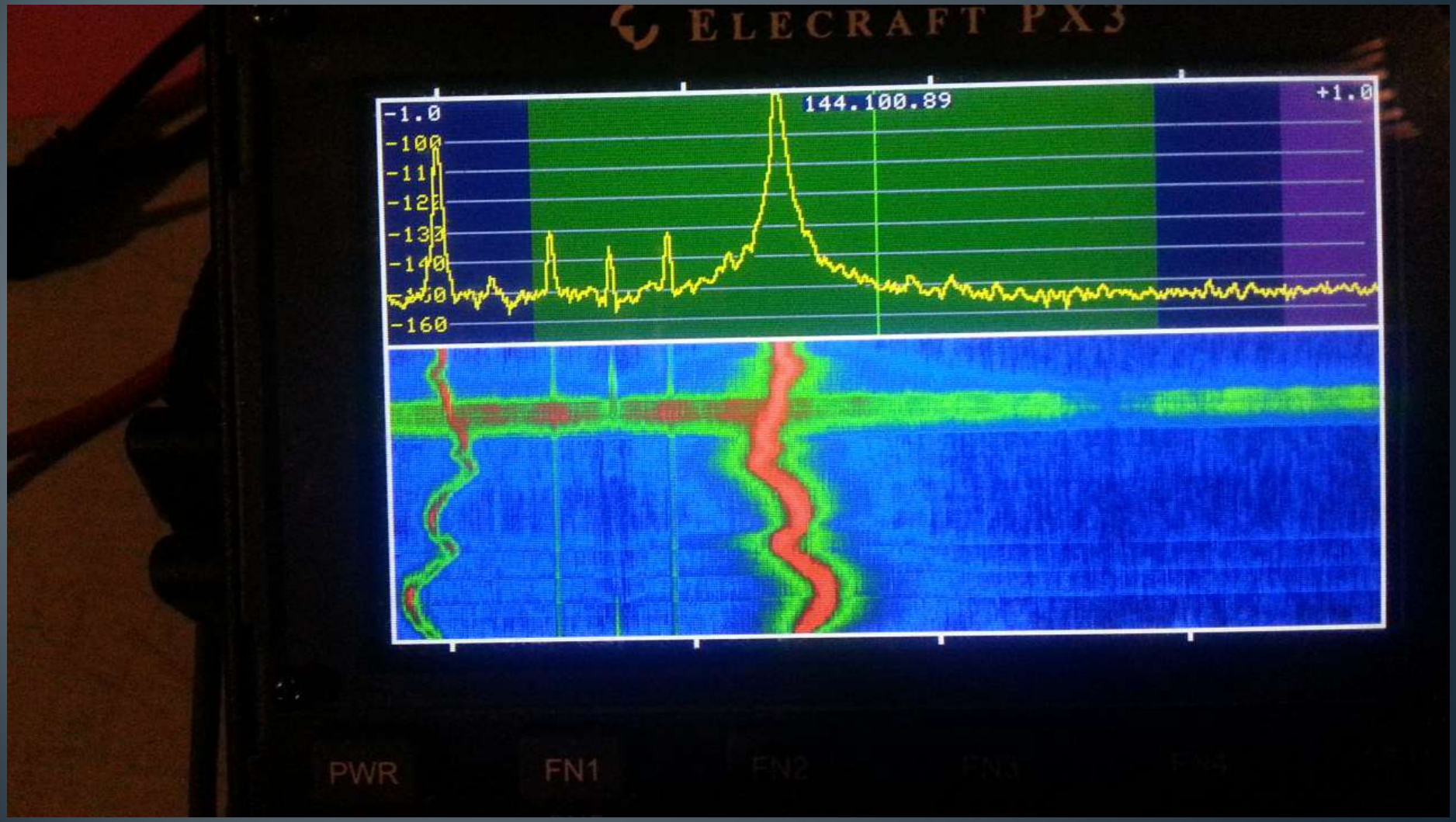
Setup

- Standard procedure from Elecraft
- Hair dryer and refrigerator on standby
- Standard Signal Generator
- Audio Frequency counter attached to the phones output

First Run

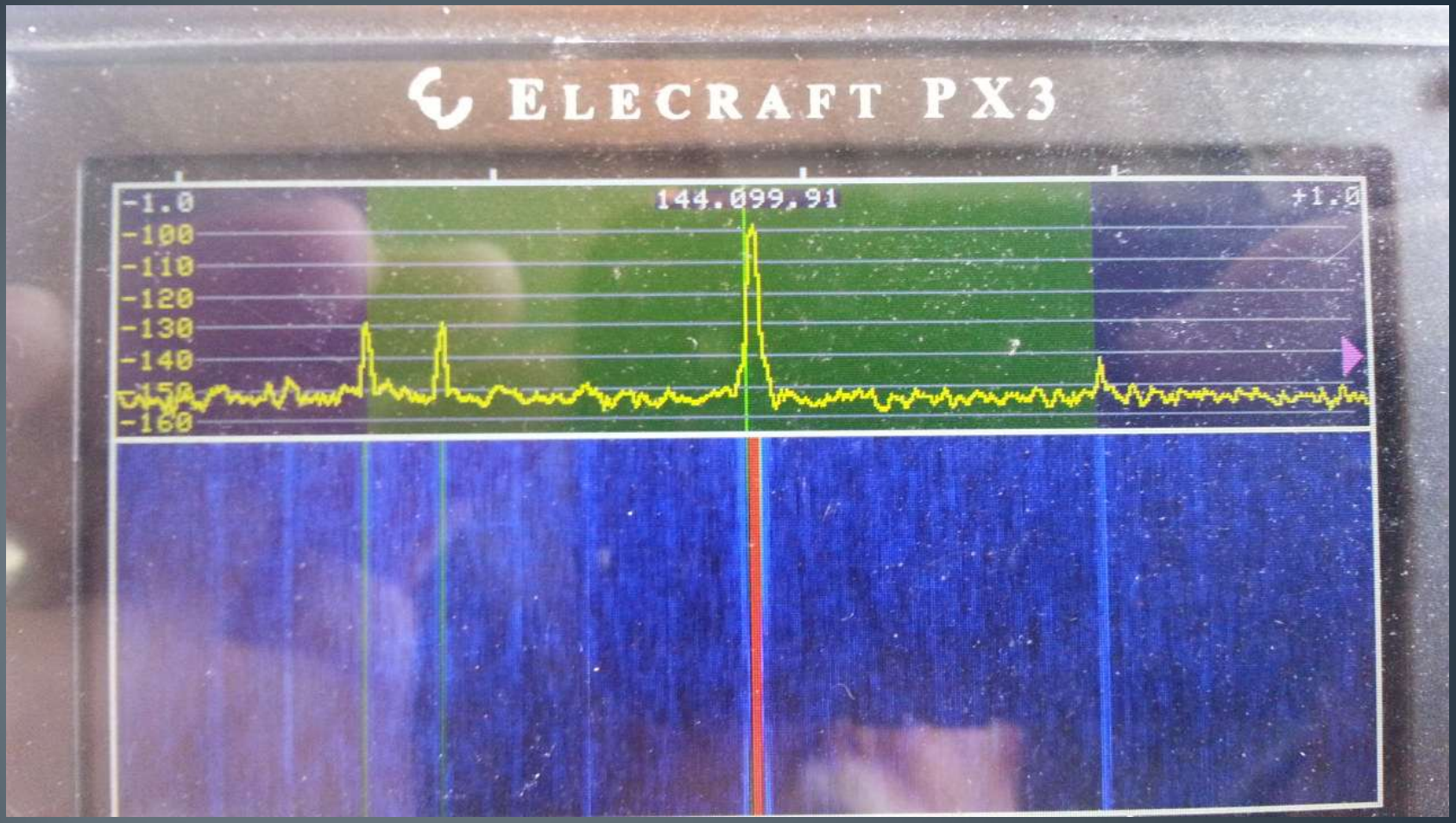
- I may have confused some of the button pushes as things seemed to go by quickly
- One minute on, one minute off on 2m at 2watts.

Results #1


ELECRAFT PX3
144.100.89
-1.0
+1.0
-100
-110
-120
-130
-140
-150
-160
PWR
FN1
FN2

Run #2

- This run seemed to follow along with what the instructions said should happen.
- After the cal. run I did a tx/rx test and this is what I got.


ELECRAFT PX3
144.099.91
-1.0
+1.0
-100
-110
-120
-130
-140
-150
-160

Results

- Using the audio counter as a reference
- I transmitted for 50 seconds and recorded the drift over the next two minutes.
- Between 10 and 50seconds it drifted 60hz on RX
- After 50sec. the drift went to less than 1hz/sec. tapering off to little or no drift after 1min 10sec.
- This was done in ambient air at about 23deg C.
- Power output of 2w or .5w and dc input of 14v or 12v didn't seem to make a difference.