

## **SDR – Part 4**

### **Fixed Frequency Operation**

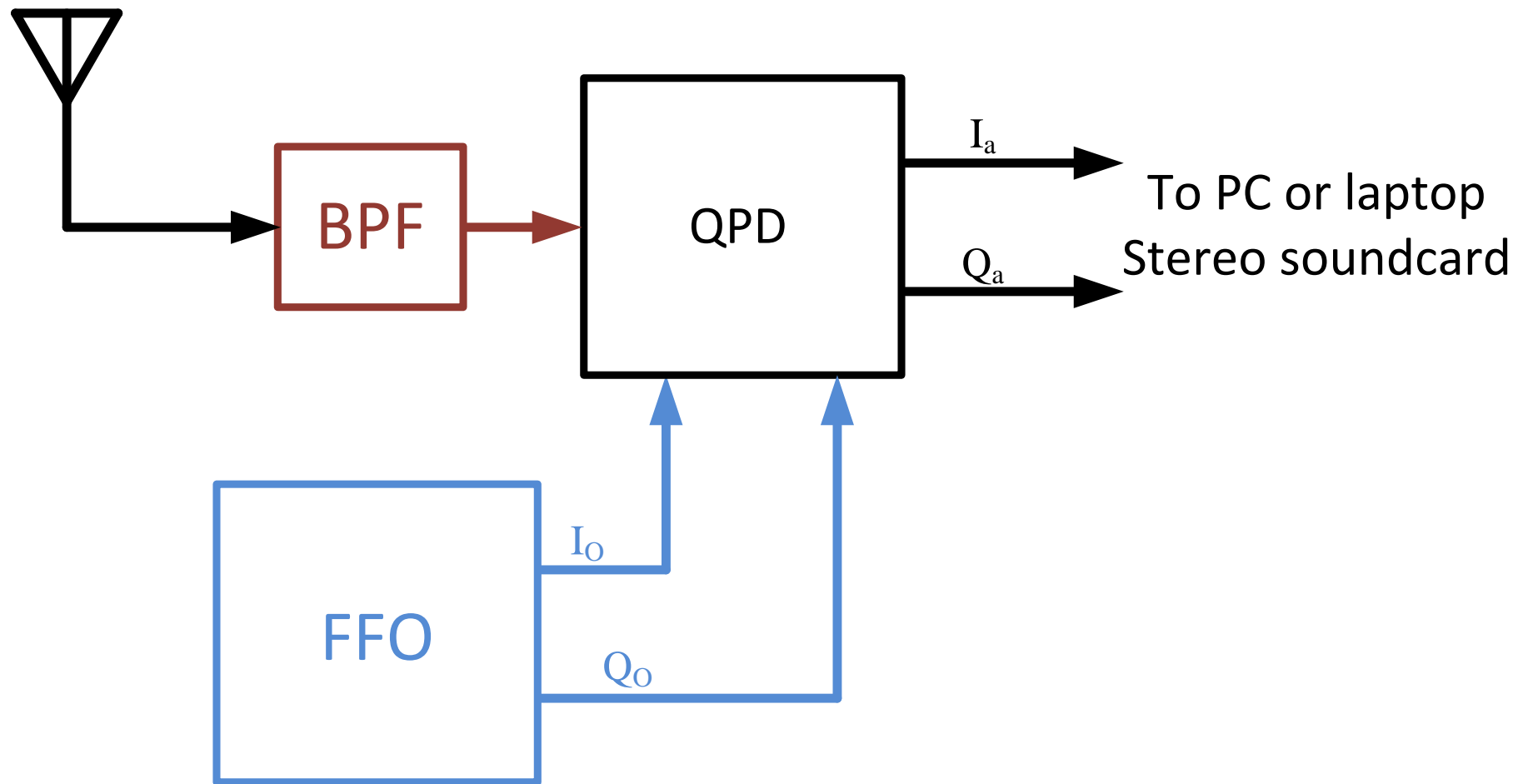
I published a construction article in the April 2022 publication of Practical Wireless Magazine.

Electronic viewing of the magazine, as part of a subscription, is here:  
<https://pocketmags.com/eu/practical-wireless-magazine>

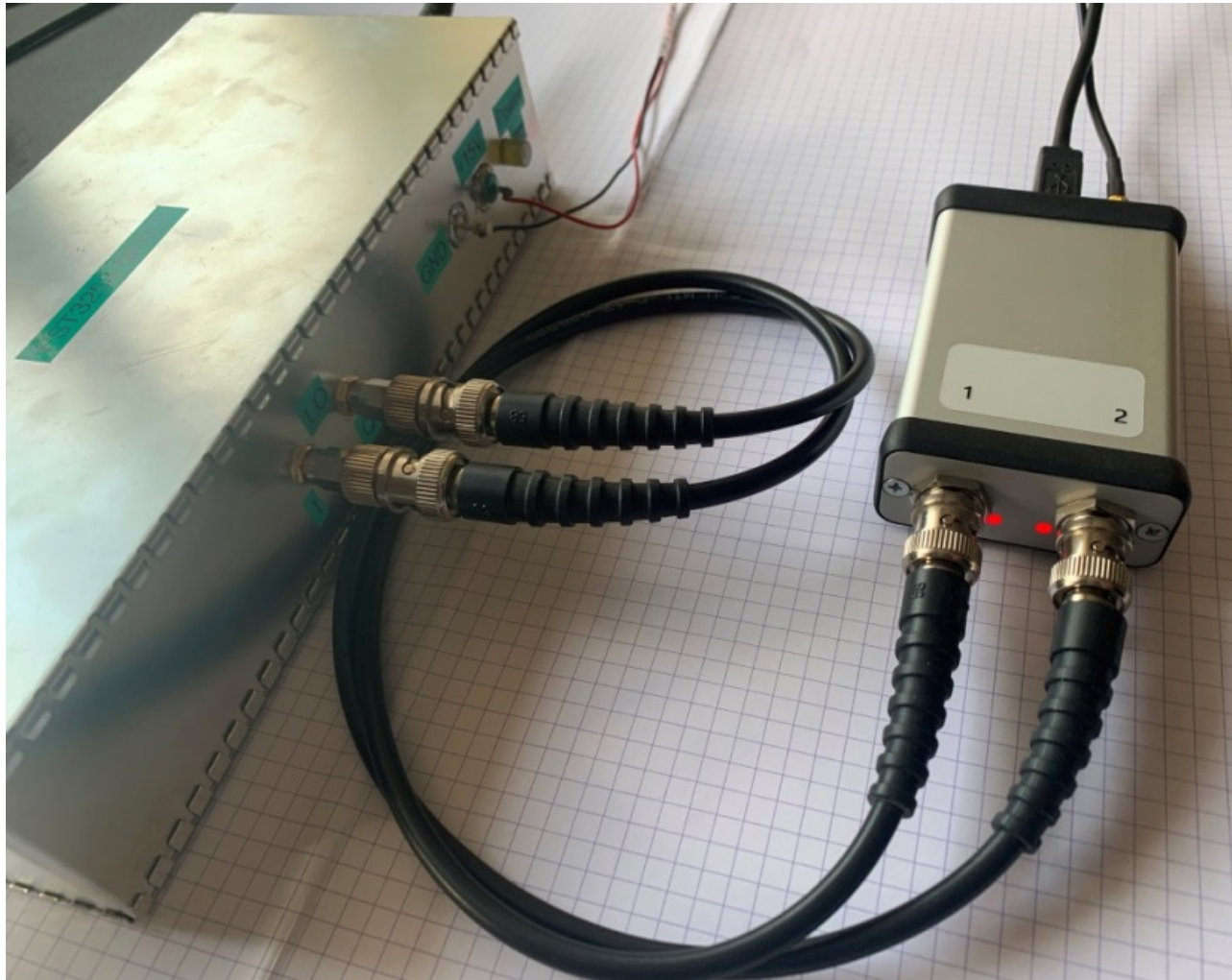
As necessitated by space constraints the photos and schematics in the article might be a little small to be of any use for some readers.

So here are each of the photographs and schematics in high resolution.

Samuel



**Figure 1. Basic block diagram**



**Figure 2. Connection of the GPS disciplined oscillator to the QPD.**

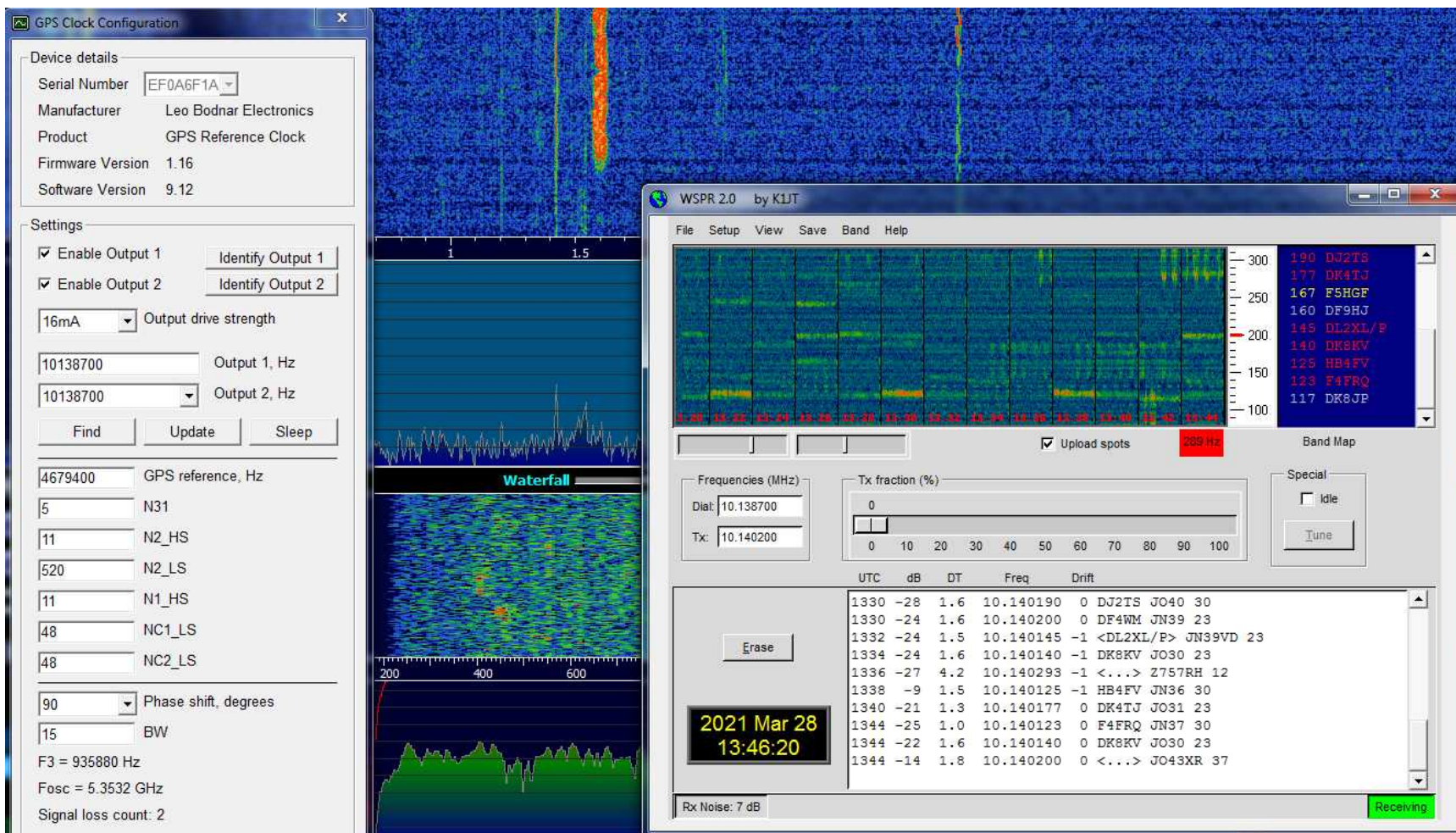
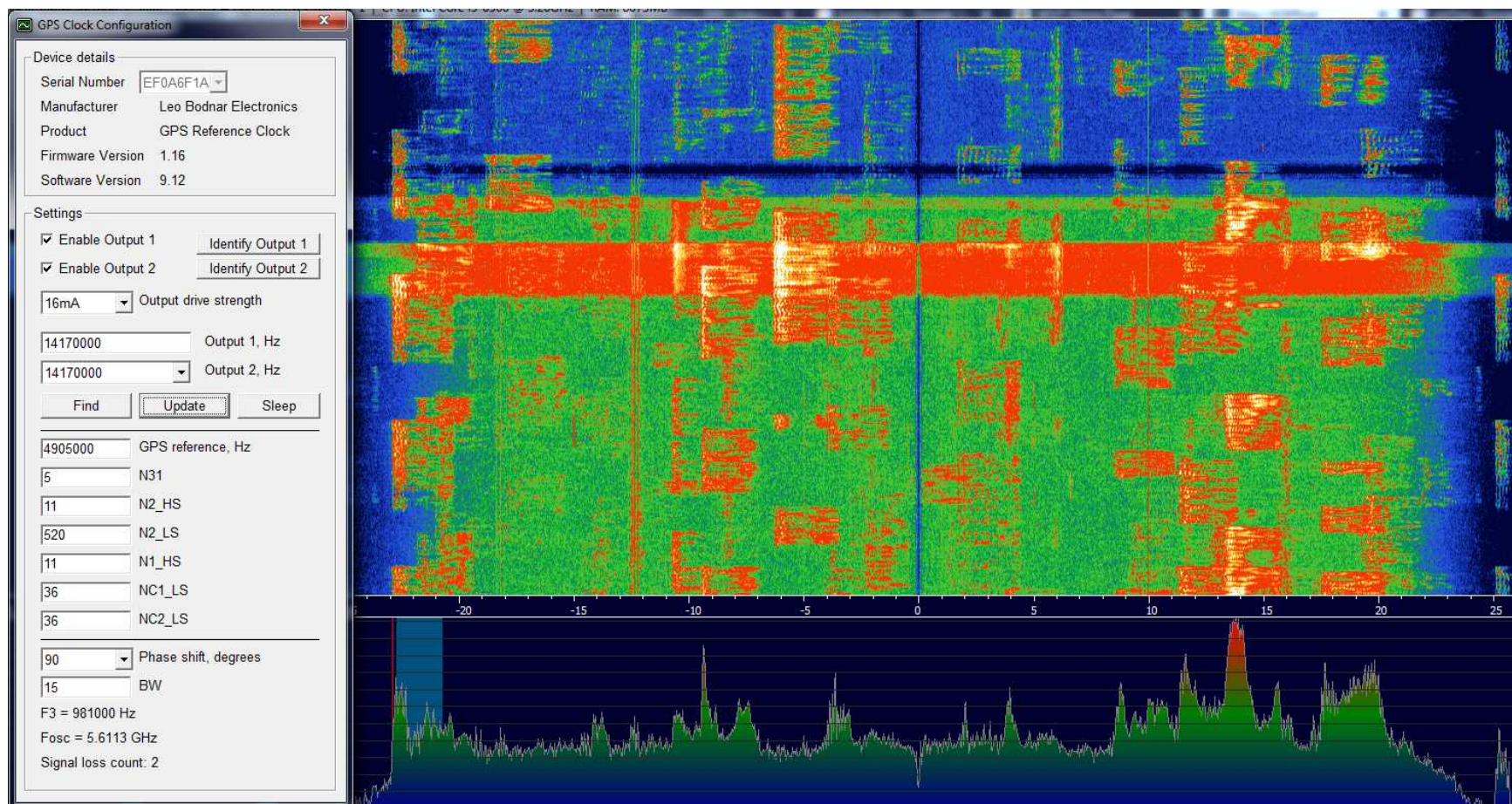
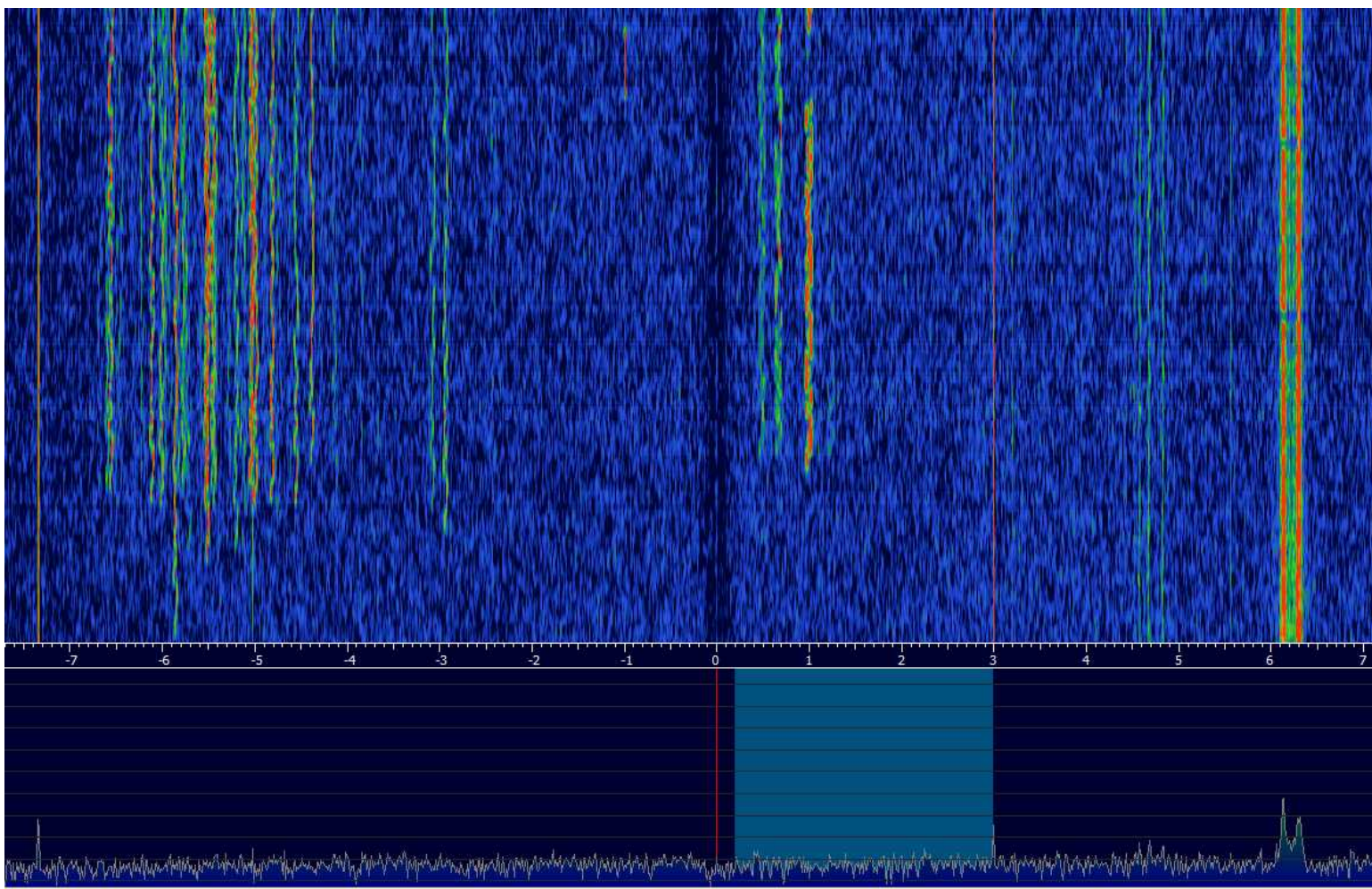


Figure 3. WSPR on 30m



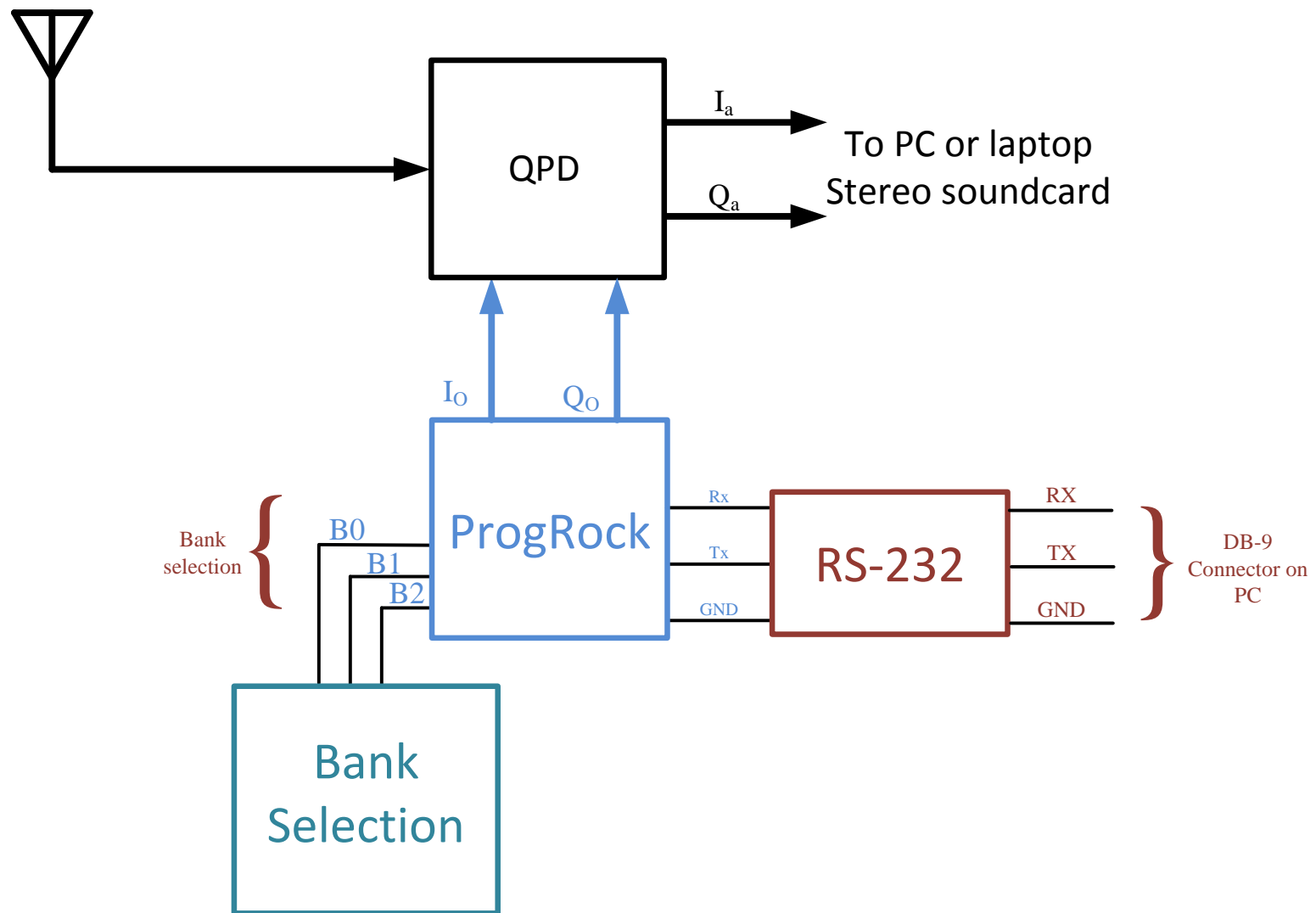


**Figure 4. A busy 20m band during a contest.**



**Figure 5. Watching FT8 on the IF output of a receiver.**





**Figure 6. Block diagram of setup**





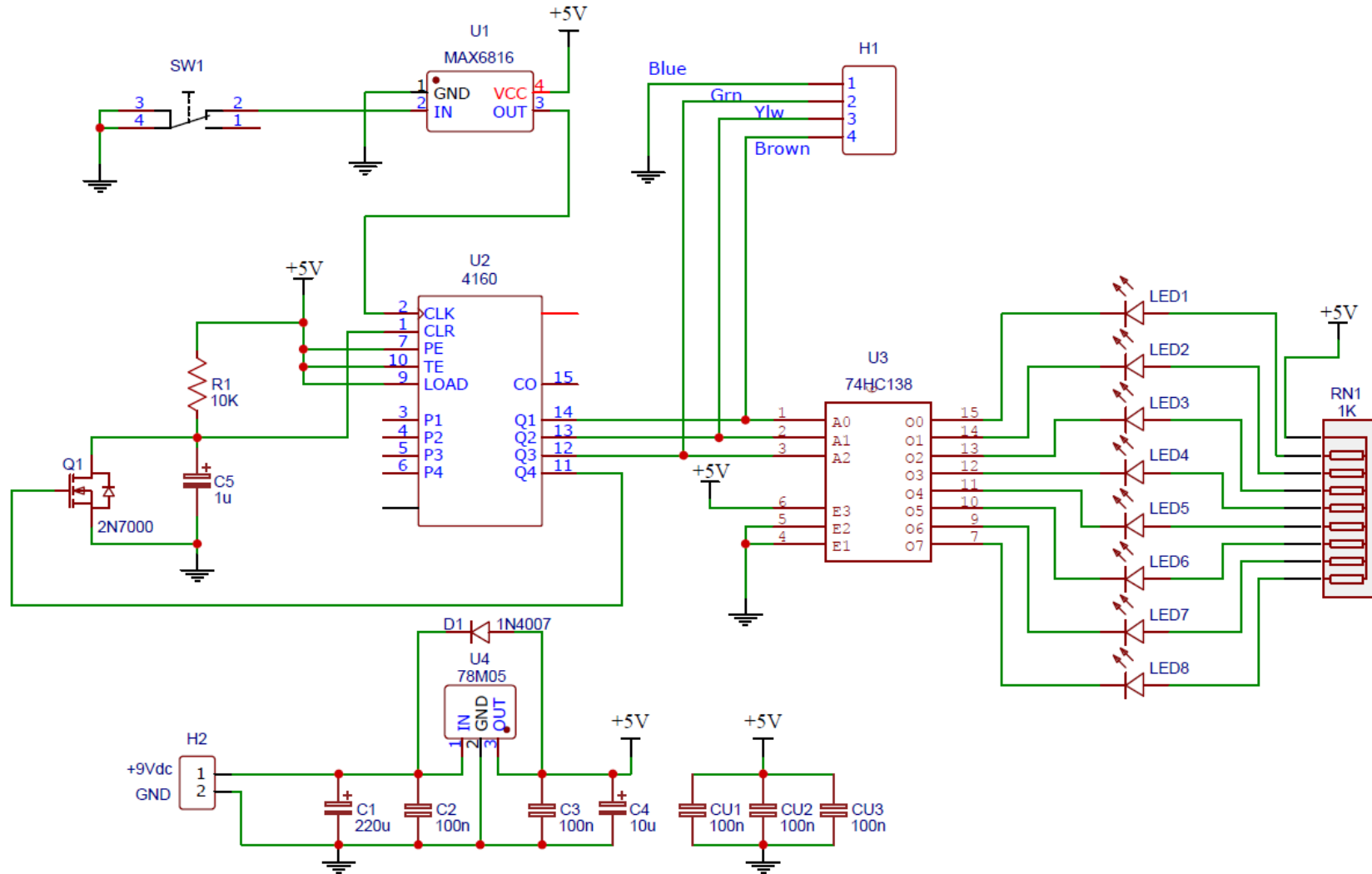
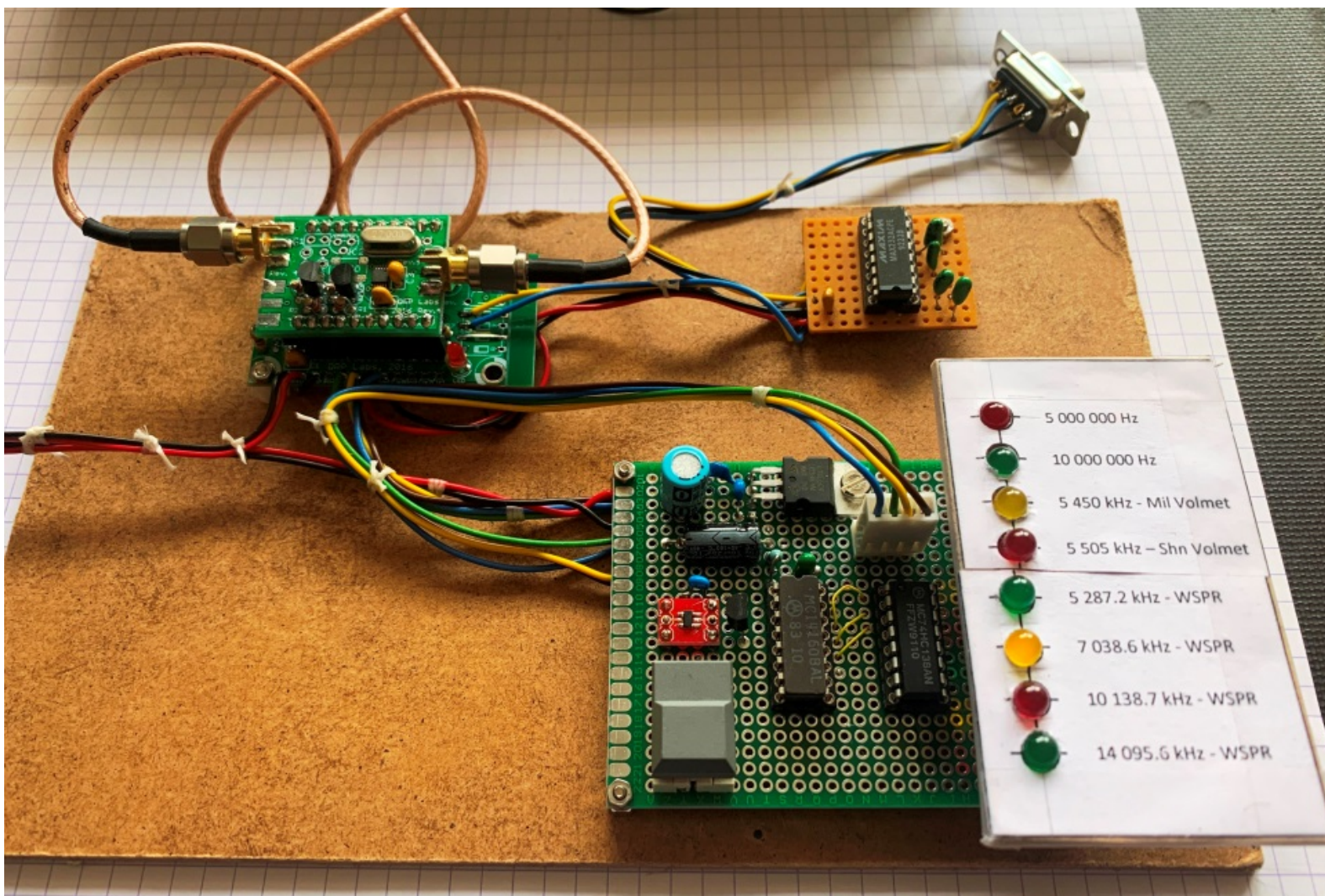
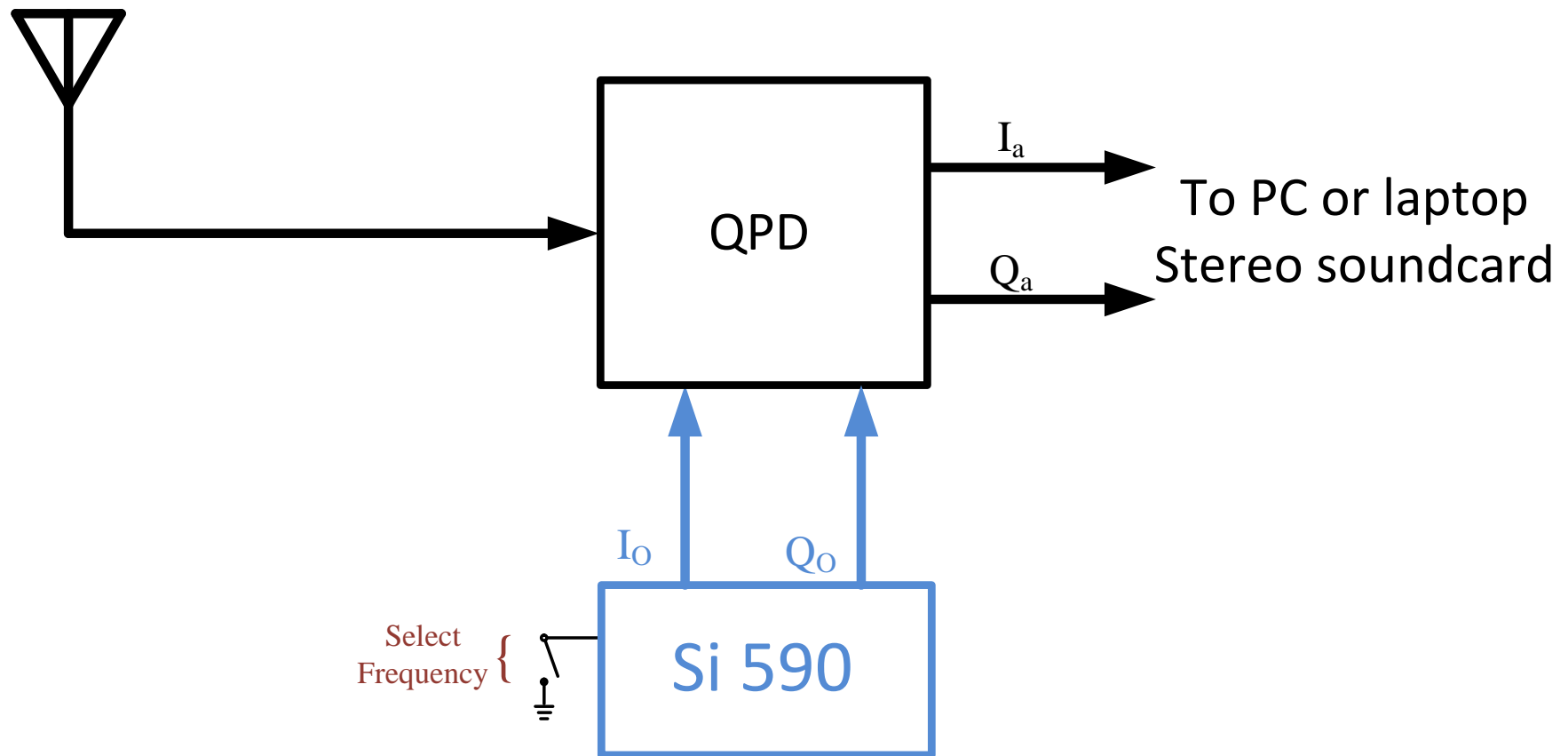


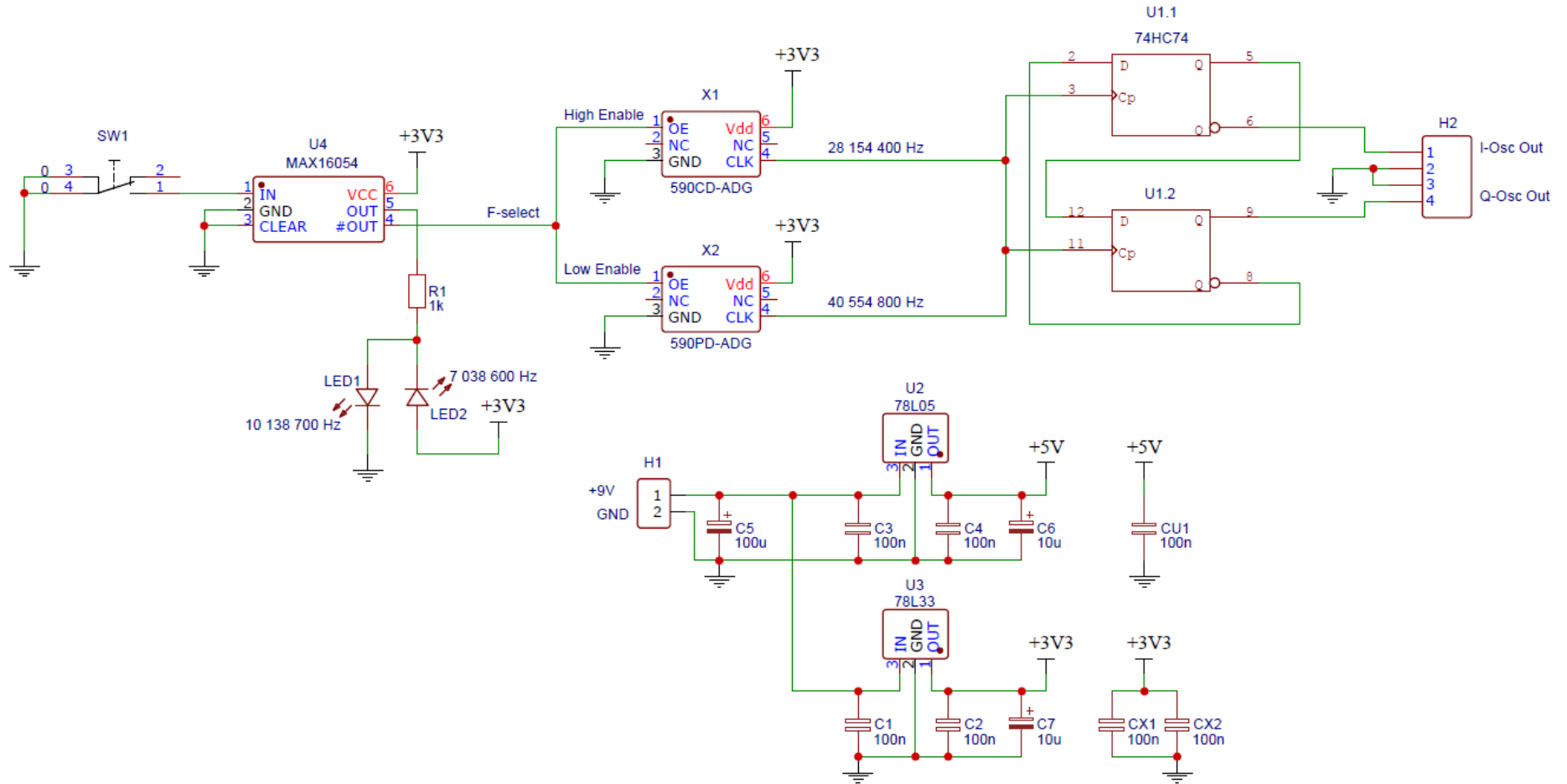
Figure 8. Schematic of bank selection circuit.



**Figure 9. ProgRock and associated circuitry close up**



**Figure 10. Block diagram of Si590 setup**



**Figure 11. Schematic of the Si590 oscillator.**



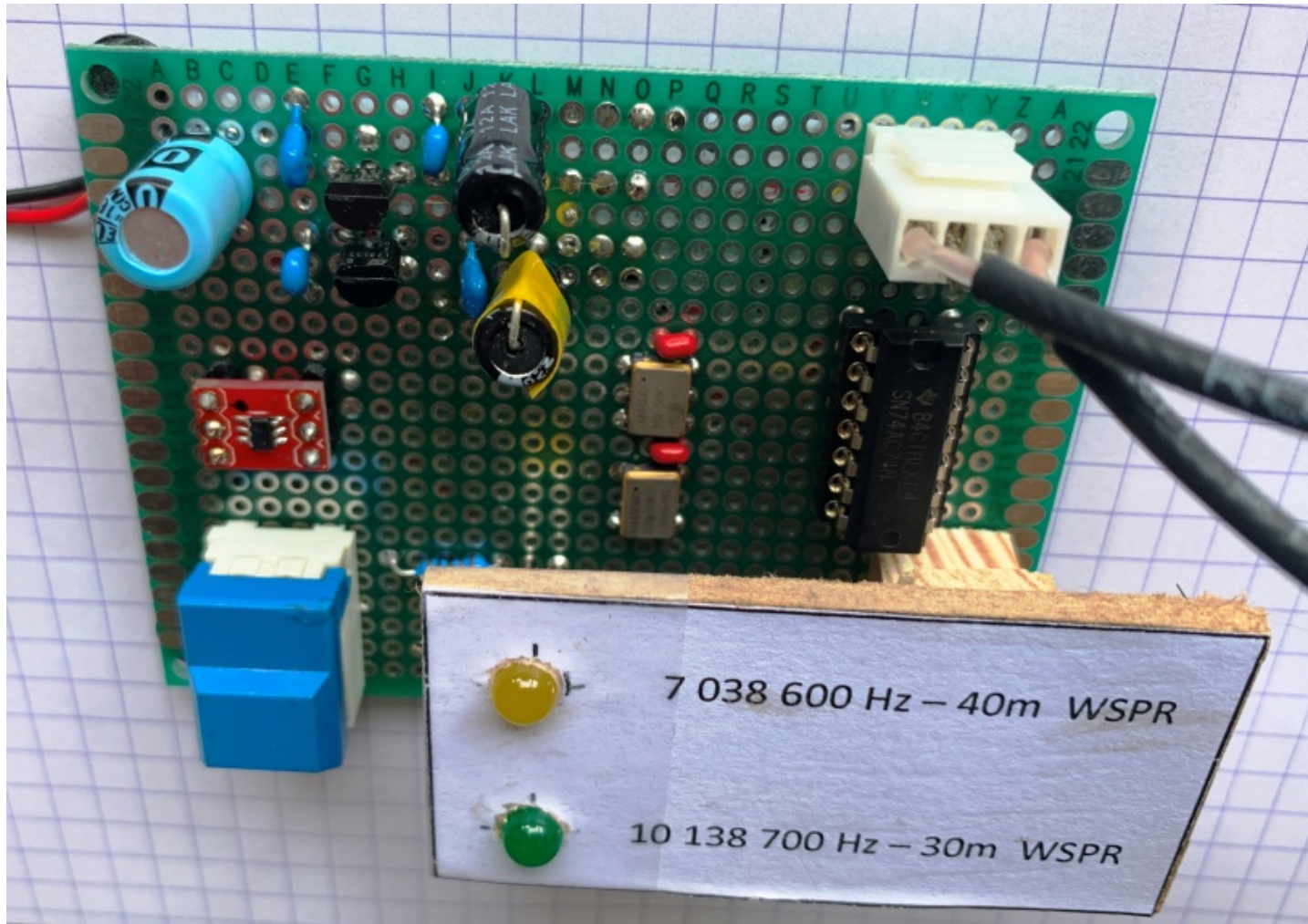


Figure 12. Si590 circuitry close up