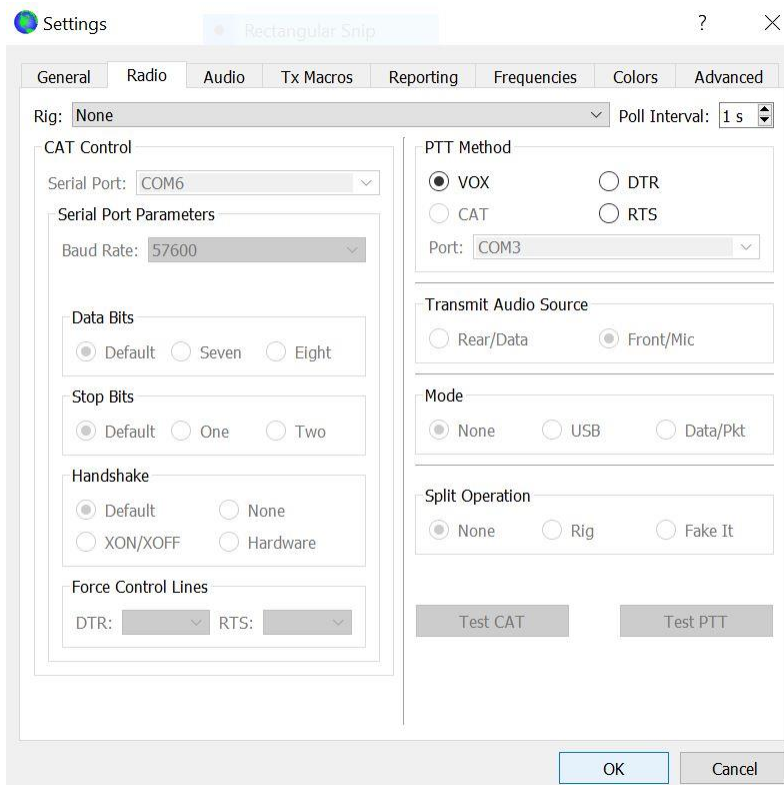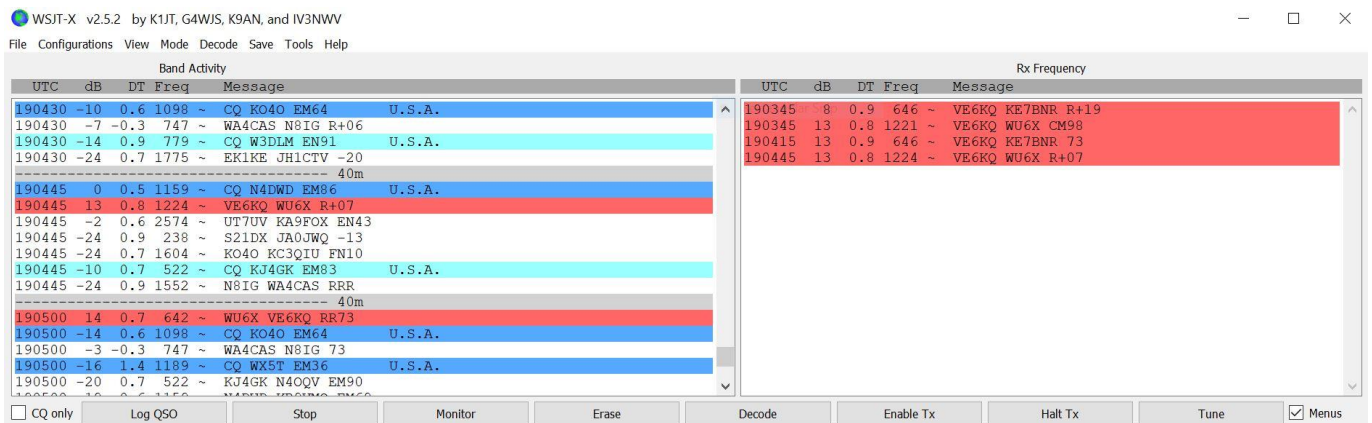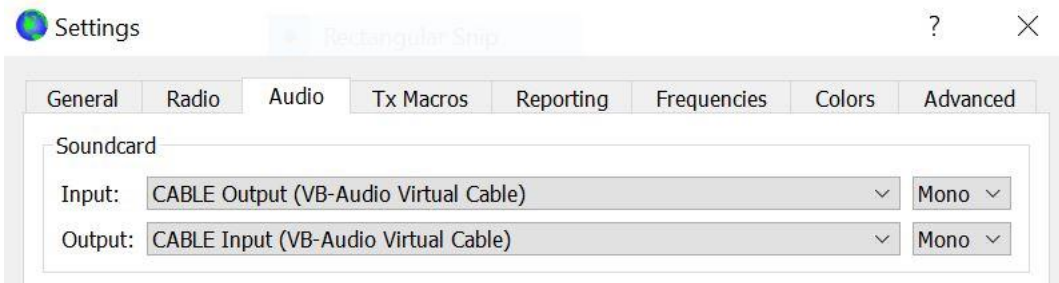# Using WSJT-X with a WEBSDR

I wanted to try the WSJT-X software or more specifically FT-8 running locally and using a WEBSDR as the radio source. I had already configured my SDRPLAY RSP-1A receiver to run FT-8 using the SDRUNO software. To use a WEBSDR requires a Virtual Audio Cable to be installed on your computer. I use VB Cable and it is a free download. Once installed you don't have to deal with it anymore. The only change I had to make on the WSJT software from my original configuration was in the radio setting. I changed it from TS480 to NONE.

My computer runs Windows 10 and it is just a matter of enabling VB Cable on the task bar by clicking on the speaker icon. See the screen captures below for the WSJT settings.

Using your web browser select the WEBSDR of your choice, find the frequency desired and select USB. You may have to adjust the bandwidth. You can adjust the audio level to the WSJT software by using the WEBSDR volume control. The displayed frequency on the WSJT software will likely be wrong because there is no CAT control. The CAT Control box shown below is not used.

I have two computers in the Ham Shack, one general purpose and one dedicated to FT8/FT4 and logging. The plan was to run the general purpose computer with a WEBSDR and WSJT and have the dedicated computer running FT-8 with my IC 7300 at the same time. Thought it would be interesting to see my FT-8 signal being picked up on a receiver somewhere else.

Settings   ?   ✕

| General | Radio | Audio | Tx Macros | Reporting | Frequencies | Colors | Advanced |

Soundcard

Input: CABLE Output (VB-Audio Virtual Cable) ⌄   Mono ⌄

Output: CABLE Input (VB-Audio Virtual Cable) ⌄   Mono ⌄

WSJT-X v2.5.2 by K1JT, G4WJS, K9AN, and IV3NWV   — ☐ ✕

File Configurations View Mode Decode Save Tools Help

Band Activity   Rx Frequency

```
 UTC   dB  DT  Freq   Message                        UTC   dB   DT Freq   Message
190430 -10 0.6 1098 ~  CQ KO4O EM64      U.S.A.      190345   8  0.9  646 ~  VE6KQ KE7BNR R+19
190430  -7 -0.3 747 ~  WA4CAS N8IG R+06             190345  13  0.8 1221 ~  VE6KQ WU6X CM98
190430 -14 0.9  779 ~  CQ W3DLM EN91     U.S.A.      190415  13  0.9  646 ~  VE6KQ KE7BNR 73
190430 -24 0.7 1775 ~  EK1KE JH1CTV -20             190445  13  0.8 1224 ~  VE6KQ WU6X R+07
------------------------------ 40m
190445   0 0.5 1159 ~  CQ N4DWD EM86     U.S.A.
190445  13 0.8 1224 ~  VE6KQ WU6X R+07
190445  -2 0.6 2574 ~  UT7UV KA9FOX EN43
190445 -24 0.9  238 ~  S21DX JA0JWQ -13
190445 -24 0.7 1604 ~  KO4O KC3QIU FN10
190445 -10 0.7  522 ~  CQ KJ4GK EM83     U.S.A.
190445 -24 0.9 1552 ~  N8IG WA4CAS RRR
------------------------------ 40m
190500  14 0.7  642 ~  WU6X VE6KQ RR73
190500 -14 0.6 1098 ~  CQ KO4O EM64      U.S.A.
190500  -3 -0.3 747 ~  WA4CAS N8IG 73
190500 -16 1.4 1189 ~  CQ WX5T EM36      U.S.A.
190500 -20 0.7  522 ~  KJ4GK N4OQV EM90
```

☐ CQ only | Log QSO | Stop | Monitor | Erase | Decode | Enable Tx | Halt Tx | Tune | ☑ Menus

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I made a couple of contacts on 40 meter using FT-8. Above is how it was received on a WEBSDR in Utah. Notice that the DT is a bit off. My computer time was set correctly. There is latency somewhere. Overall it doesn't seem to be a problem. If you want to try what I did above and have your call sign highlighted you will need to enter your call sign in the WSJT software when configuring it.

Here is a useful link for finding WEBSDR's. http://www.websdr.org/

If you want to monitor FT-8 or some of the other modes supported by the WSJT software you don't require a radio just a computer, internet access and some free software.

December 10, 2021

Home Page https://ve6kq.com