STReader Tool ST25RU3993 GUI Tuning Results into Rust Code Import Tutorial

Step 1: Follow steps 1-6 in “*STReader tool ST25RU3993 GUI guide”*

Step 2: In the log at the bottom of the GUI, look for the second block that follows: **+ OK + Get\_ChannelList**

It will look similar to this, but with different numbers:

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+ OK + Get\_ChannelList(numFrequencies: 50, channelListIdx: 49, persistent: 0, idx:{Freq, ANTENNA 1(cin,clen,cout), ANTENNA 2(cin,clen,cout)} = 0:{902750, (19,11,0), (9,19,15)}, 1:{915250, (0,7,0), (9,25,15)}, 2:{903250, (19,11,0), (9,19,15)}, 3:{915750, (5,9,0), (9,25,15)}, 4:{903750, (21,13,0), (9,19,15)}, 5:{916250, (5,9,0), (9,14,14)}, 6:{904250, (19,13,0), (9,19,15)}, 7:{916750, (5,9,0), (9,14,14)}, 8:{904750, (19,13,0), (9,19,15)}, 9:{917250, (6,9,0), (9,14,14)}, 10:{905250, (19,13,0), (9,19,15)}, 11:{917750, (0,7,0), (9,14,14)}, 12:{905750, (10,9,0), (10,25,15)}, 13:{918250, (0,7,0), (9,27,15)}, 14:{906250, (19,13,0), (10,25,15)}, 15:{918750, (0,7,0), (9,27,15)}, 16:{906750, (19,13,0), (9,21,15)}, 17:{919250, (0,7,0), (9,29,15)}, 18:{907250, (19,13,0), (9,21,15)}, 19:{919750, (0,7,0), (9,29,15)}, 20:{907750, (18,13,0), (9,21,15)}, 21:{920250, (0,7,0), (9,29,15)}, 22:{908250, (18,13,0), (9,21,15)}, 23:{920750, (0,7,0), (9,29,15)}, 24:{908750, (18,13,0), (9,21,15)}, 25:{921250, (0,7,0), (9,29,15)}, 26:{909250, (17,13,0), (9,21,15)}, 27:{921750, (0,7,0), (9,29,15)}, 28:{909750, (15,13,0), (9,22,15)}, 29:{922250, (0,7,0), (9,29,15)}, 30:{910250, (15,13,0), (9,22,15)}, 31:{922750, (0,7,0), (9,30,15)}, 32:{910750, (15,13,0), (9,22,15)}, 33:{923250, (0,7,0), (9,30,15)}, 34:{911250, (6,9,0), (9,22,15)}, 35:{923750, (0,7,0), (9,30,15)}, 36:{911750, (6,9,0), (9,22,15)}, 37:{924250, (0,7,0), (9,30,15)}, 38:{912250, (6,9,0), (9,22,15)}, 39:{924750, (0,7,0), (9,30,15)}, 40:{912750, (15,13,0), (9,8,13)}, 41:{925250, (0,7,0), (9,30,15)}, 42:{913250, (0,7,0), (9,8,13)}, 43:{925750, (0,7,0), (9,30,15)}, 44:{913750, (0,7,0), (9,8,13)}, 45:{926250, (0,7,0), (9,30,15)}, 46:{914250, (0,7,0), (9,25,15)}, 47:{926750, (0,7,0), (9,30,15)}, 48:{914750, (0,7,0), (9,25,15)}, 49:{927250, (0,7,0), (9,30,15)}, ) = 0

//

Step 3: Remove anything that comes before 0:{…, and separate into rows based on the numbers that come before each colon. An example is shown below, and there should be 50 rows in total.

0:{902750, (19,11,0), (9,19,15)},

1:{915250, (0,7,0), (9,25,15)},

2:{903250, (19,11,0), (9,19,15)},

3:{915750, (5,9,0), (9,25,15)},

4:{903750, (21,13,0), (9,19,15)},

5:{916250, (5,9,0), (9,14,14)},

6:{904250, (19,13,0), (9,19,15)},

7:{916750, (5,9,0), (9,14,14)},

8:{904750, (19,13,0), (9,19,15)},

9:{917250, (6,9,0), (9,14,14)},

10:{905250, (19,13,0), (9,19,15)},

11:{917750, (0,7,0), (9,14,14)},

12:{905750, (10,9,0), (10,25,15)},

13:{918250, (0,7,0), (9,27,15)},

14:{906250, (19,13,0), (10,25,15)},

15:{918750, (0,7,0), (9,27,15)},

16:{906750, (19,13,0), (9,21,15)},

17:{919250, (0,7,0), (9,29,15)},

18:{907250, (19,13,0), (9,21,15)},

19:{919750, (0,7,0), (9,29,15)},

20:{907750, (18,13,0), (9,21,15)},

21:{920250, (0,7,0), (9,29,15)},

22:{908250, (18,13,0), (9,21,15)},

23:{920750, (0,7,0), (9,29,15)},

24:{908750, (18,13,0), (9,21,15)},

25:{921250, (0,7,0), (9,29,15)},

26:{909250, (17,13,0), (9,21,15)},

27:{921750, (0,7,0), (9,29,15)},

28:{909750, (15,13,0), (9,22,15)},

29:{922250, (0,7,0), (9,29,15)},

30:{910250, (15,13,0), (9,22,15)},

31:{922750, (0,7,0), (9,30,15)},

32:{910750, (15,13,0), (9,22,15)},

33:{923250, (0,7,0), (9,30,15)},

34:{911250, (6,9,0), (9,22,15)},

35:{923750, (0,7,0), (9,30,15)},

36:{911750, (6,9,0), (9,22,15)},

37:{924250, (0,7,0), (9,30,15)},

38:{912250, (6,9,0), (9,22,15)},

39:{924750, (0,7,0), (9,30,15)},

40:{912750, (15,13,0), (9,8,13)},

41:{925250, (0,7,0), (9,30,15)},

42:{913250, (0,7,0), (9,8,13)},

43:{925750, (0,7,0), (9,30,15)},

44:{913750, (0,7,0), (9,8,13)},

45:{926250, (0,7,0), (9,30,15)},

46:{914250, (0,7,0), (9,25,15)},

47:{926750, (0,7,0), (9,30,15)},

48:{914750, (0,7,0), (9,25,15)},

49:{927250, (0,7,0), (9,30,15)}, ) = 0

Step 4: Copy and paste this list into the “*GUI\_Tuning\_Results.txt”* file in the ***libstuhfl*** folder

This process should be done every time the antenna is connected