

Frequency Finder Workshop

Dakar, Senegal, 24 – 28 April 2017

Exercises:

1. Query:

a Query database for AFI – Senegal – DAKAR YOFF – 127.900 MHz

- On window COM list 3, click the button *Query*.
- On window *Query database* select from drop-down menu in field *Country* Senegal
- From the drop-down menu in the field *Location* select **DAKARR YOFF**
- From the drop-down menu in the field *Frequency* select **120.500 MHz**.
- Click button *Find*

Now you should see an APP-U frequency at the selected location

b Re-do and modify query

- In the dialog box in the field *Service* select from the drop-down menu AOC.
- Click button *Find*.

Now you should see four AOC frequencies at the selected location

c Return results of last Query.

- Click button *regional COM list*; this button returns the Regional COM list 3 (about 1242 frequency assignments).
- Click button *Active Find*. *This returns the results of the last query.*

d Find all frequency assignments for the service TWR in your country.

Note: For the frequency assignments which are listed in COM list 3 for the AFI Region, no use is made of area services for which the area is described through a polygon (e.g. an FIR Sector).

2 Select frequencies

- If the button *SELECT* is green, a previous query/selection is active. When you click this button, a dialog box appears, inviting you to clear or return the last query/selection. Click button *Clear* in this dialog box. Now you are returned to the Regional COM list 3.
- Scroll to the frequency you want to select.
- Click button *SELECT* on the window *COM list 3*. The frequency assignment selected is now the first frequency from you manual selection. The button *SELECT* is now red.
- Scroll to another frequency assignment and click mouse button.
- Click more frequency assignments as desired
- When the manual selection is complete, click the button *SELECT* again. The button *SELECT* turns green and the manual selection is displayed.

Note: when a query or a selection of frequency assignments has been made, the button *Active Find* is displayed on the window *COM list 3*. Click this button to return the last query/selection.

3. Test Frequency

Test frequency is an automatic process. Frequency Finder offers the option to test a single frequency assignment and plot on a map the results of the compatibility calculations or to test a series of frequency assignments (these are a result of a query or selection).

With Test Frequency, the results of the compatibility calculations are to be interpreted by the user in cases where Frequency Finder found that frequency assignments were not compatible.

Testing of the compatibility of some frequency assignments in Senegal.

Query the COM list 3 for all frequency assignments in Senegal.

Perform the compatibility test for these frequency assignments. Click button *TEST FREQUENCY* and select from the drop-down menu *Found Frequencies*

After all compatibility calculations have been completed, the window *Summary calculations* is returned.

- Find the record for: **Senegal, Dakar ACC, Frequency 131.300 MHz.**
- double click on the record for **Senegal, Dakar ACC, Frequency 131.300 MHz**, in the field which indicates **“Not Compatible”** (Alternately, if in the Regional Com list, then test with the button *Test Frequency, select single frequency*).
- From the dialog box select *Map*.
- Interference is predicted with some stations; go to window *Go to Co-frequency details*, here you will see that interference is predicted with four other services, one in Burkina Faso and three in Mali.
- Start interpreting the frequency assignments that are shown to be incompatible with the frequency assignment in Senegal.

Exercises:

Select all frequency assignments in your country.

Test all these frequency assignments

Look at each incompatible frequency assignment to determine if or what action is required.