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RECONNECTING THE WORLD



Frequency Finder

3 Test Frequency

ACAO/ICAO Frequency Management Workshop
Casablanca, Morocco, 6-10 June 2022

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Test Frequency (1)

- Click button *Test Frequency* on window *COM list 3*
- Options:
 - Test single frequency
 - Test found frequencies
(all frequencies in the found-set)
- As desired by the user, the calculation results can be displayed on a map with Google Earth.
- When the calculations are completed the window *Summary Calculations* is displayed



Test Frequency (2) Summary calculation results (1)

COM Data Base (COM LIST 3) Summary Calculations											ST
Active Region		Regional COM list		Delete all records		Redo calculations		Co-frequency details		Adj. frequency details	
Date	Key	D	Frequency	Region	Country	Location	Service	Margin	Result Co. freq.	Margin	Result Adj. freq.
01_Jun_2022 11:21:09	602176	R	132.450	MID	Bahrain	BAHRAIN	ACC-U	-208	Not compatible	235	Compatible
16_May_2022 10:17:41	601275	R	125.900	MID	United Arab Emirates	ABU DHABI INTL	APP-U	-308	Not compatible	52	Compatible
16_May_2022 8:14:29	602420	R	124.700	MID	Egypt	ALEXANDRIA INT	ACC-U	-944	Not compatible	400	Compatible
16_May_2022 8:10:19	602420	R	124.700	MID	Egypt	ALEXANDRIA INT	ACC-U	-944	Not compatible	400	Compatible
13_May_2022 14:04:35	601275	R	125.900	MID	United Arab Emirates	ABU DHABI INTL	APP-U	-308	Not compatible	52	Compatible

- Presents most recent and earlier test results
- Option to redo earlier tests with button with button *Redo* or click in field *Co-frequency details*
- Option to view detailed co- and adjacent calculation results of the most recent test. Click button Co- or Adj frequency details
- Alternatively the user can navigate to the window *Summary Calculations* with the button *Calculation Results* on the window COM list 3





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Exercises

Test Frequency



Test Frequency (3) Detailed calculation results – Co-frequency (1)

Frequency Finder

File Edit View Insert Format Records Scripts Window Help

COM Data Base (COM LIST 3) Details Co-frequency compatibility Calculation of CO-frequency separation distances Plot interference - All

Regional COM list 4 / 6 records Show all records Go to Adj channel calc Go to Summary calc.

Test for the frequency

1	Key R 602176	Frequency 132.450	Range 260	Height 45000	Radio Horizon 261	Sectorname	Latitude 26D17'00" N	Service ACC-U
	Region MID	Country Bahrain			Location BAHRAIN		Longitude 050D38'00" E	DOC ACC-U C-260/450
Not compatible with record #2 Margin -200 NM Not compatible ACC Upper Circular Ext. range Plot coverage								
First record is station being tested, records below are stations against which the first station has been tested.								
Compatibility calculations between unprotected services are only shown for information.								
2	Key R 602250	Frequency 132.450	Range 260	Height 45000	Radio Horizon 261	Sectorname	Latitude 31D43'21" N	Service ACC-U
	Region MID	Country Jordan			Location AMMAN ACC		Longitude 035D59'36" E	DOC ACC-U C-260/450
The distance is measured between the location of the station in record 1 and the location of the station in the current record Actual distance 834 NM Required distance 1042 NM Margin -200 NM Not compatible ACC Upper Circular Ext. range Plot interference								
3	Key R 41235	Frequency 132.450	Range 60	Height 15000	Radio Horizon 151	Sectorname	Latitude 37D56'00" N	Service A/G
	Region EUR	Country Turkey			Location BATMAN BATMAN		Longitude 041D07'00" E	DOC A/G C-60/150
The distance is measured between the location of the station in record 1 and the location of the station in the current record Actual distance 849 NM Required distance 732 NM Margin 117 NM Compatible Circular Ext. range Plot interference								

- Displays for each frequency against which the new/modified frequency has been tested details of the compatibility between the two frequency assignments



Test Frequency (4)

Detailed calculation results – Co-frequency (2)

- Details include
 - Actual distance between the two stations
 - Minimum required distance
 - Margin in NM (positive figure means frequency assignment are compatible; negative figure means frequency assignments are not compatible)
 - Message “Compatible” or “Not Compatible”
 - If the station is part of an extended range family
 - If the station is linked to a specific area (polygon)



Test Frequency (5)

Detailed calculation results – Co-frequency (3)

Buttons (1)

- Regional COM list
 - Returns COM list 3 with the selected frequency
- Show all records
 - Show all records used in the calculation
- Go to Adj channel calc.
 - Navigate to the window with adjacent channel calculation results
- Go to Summary calc.
 - Navigate to the window with summary calculation results



Test Frequency (5)

Detailed calculation results – Co-frequency (3)

Buttons (2)

- Plot interference – all
 - Plot compatibility of all frequency assignments in the table
- Plot coverage
 - Plot coverage of the station that has been tested
- Plot interference
 - Plot interference or compatibility of the station that is being tested with the selected station against which compatibility is tested.



Calculation results (1)

- Button Calculation results.
 - Navigates to the window with the summary of previous compatibility calculations.
- Re-do earlier calculations when COM list 3 was modified
- Navigate to windows with detailed compatibility analysis for co- and adjacent frequency assignments
- More information in slides with Test Results



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Exercises

Test Frequency & Understand the result