

JDesign program

Jdesign is a plot-editing program in VNMR. From jdesign, plots can be made and edited from VNMR. The program includes the ability to add text and arrows as well as save plots in various formats such as postscript, tiff, jpeg etc. Jdesign also supports color images. One current shortfall of jdesign is the inability to mix spectra from two different experiments.

To start jdesign, type in the command line:

>**jdesign**

The program will open with a plot designer window.

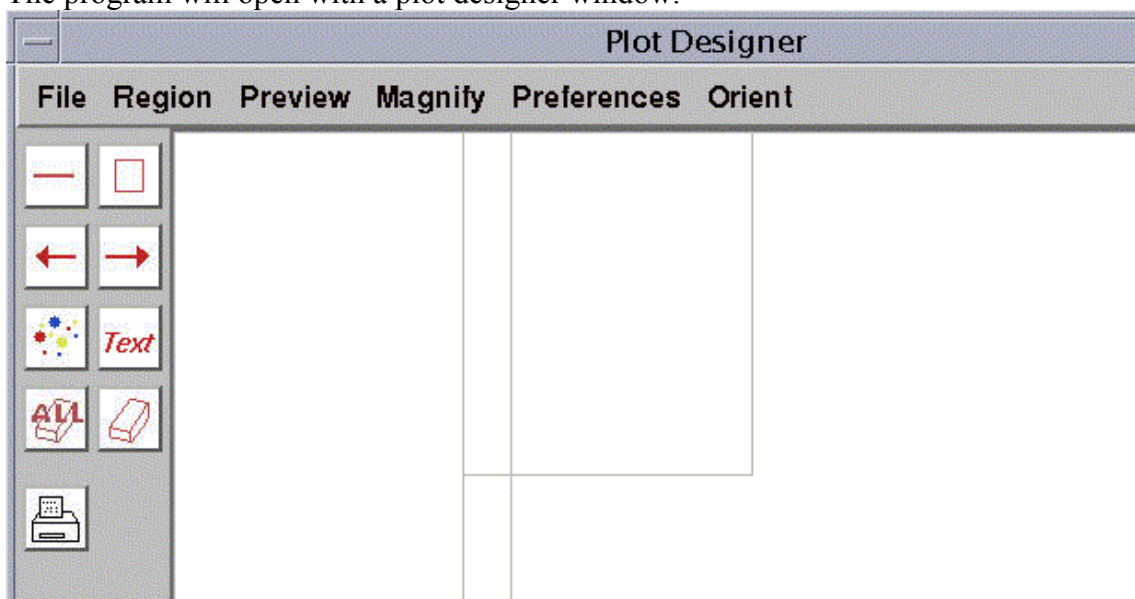


Figure 35: The jdesign plot designer window has a standard menu bar for region creating and editing and a side menu for adding lines, boxes, text and printing.

Jdesign starts with a default template indicated by the black boxes in the main window. The black lines that define the regions will not be visible in the printed plot.

From a 1-D experiment in the VNMR window, display the spectrum or region of the spectrum desired. The default template should be for a 1-D spectrum (oneD is the template name). Select [**Preview**] and then [**All**].

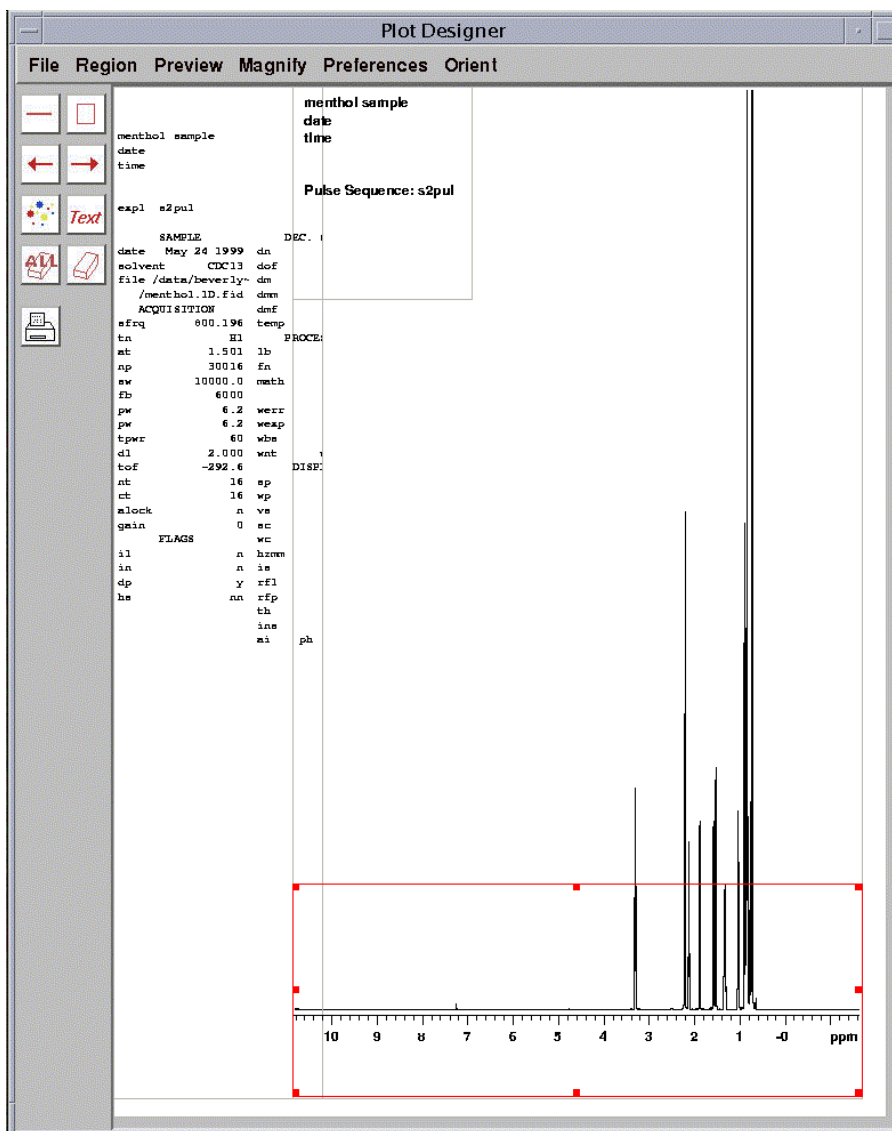


Figure 36: The basic 1-D template includes the spectrum, the axis, and a parameter list (pap). The actual plot will not include lines from the regions.

A similar template exists for a basic 2-D plot. This template will include the projections on both axes.

To add text to either plot, choose the Text button on the left. A window will open where different point size and different fonts can be selected. Type text in the window provided. Then select **[Put]**. Drag the mouse down to the location the text to be placed. Text can be moved around with the mouse later as a separate unit. Then click on **[Close]**.

The templates also include some strange colors. To change colors in a particular region, select the region and select **[Preferences]**. Then move the color bars to the left for black.

To design a new plot from scratch, select **[Region] [Delete All]**, to clear the whole space. To start a new region, select **[Region] [New]**. Use the left mouse button to click and drag to create a box for the region. Then select **[Region] [Edit]**. In this box use any VNMR plot commands such as **pl pscale**. Click on **[Close]** after adding the plot commands. Make sure the new region is highlighted by clicking with the mouse. Then select **[Preview] [Selected]** to see the plot in the new region. Continue adding regions in this manner.

To save this plot as a file, select **[File] [Save Data]**. Then click the mouse button on the data format button that says 'ps' (for postscript). A menu of all the different file formats will appear. Select the format.

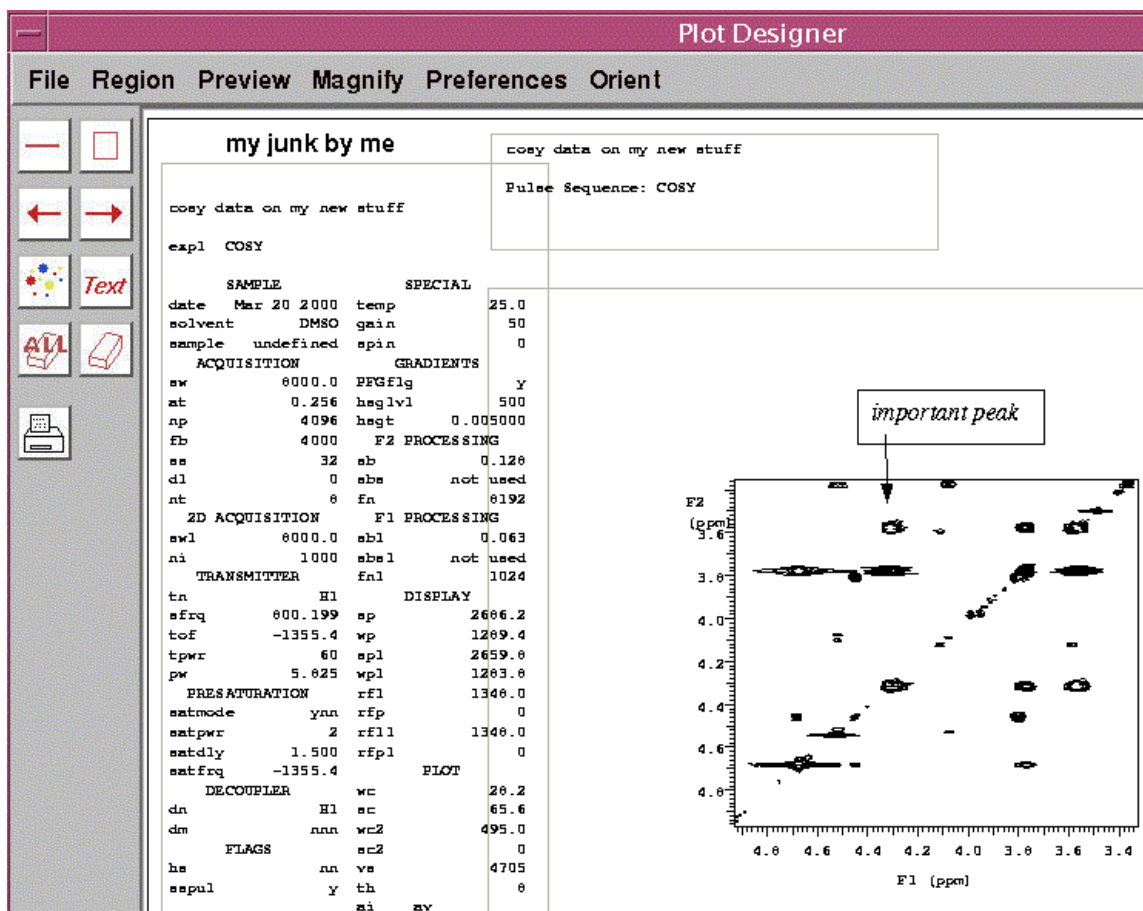


Figure 37: A 2-D plot design can include text and arrows to point out important peaks. The black lines define the regions.

To erase text or arrows, use the eraser button on the left side tool bar.

To make templates in jdesign, create a new plot as above in the format desired. Use **>File ->Templates**, then enter the name of the new template. Then "Save". The new template can be selected as the new default template if desired also.

To use a template outside of jdesign, from the VNMR command line:

>jplot('templatename')

Bugs in jdesign

Jdesign still contains many bugs, updates will be provided as possible.

Capital letters: If typing in text in the text addition window and the backspace key is used, it may stop accepting capital letters. Use the delete key and it should be fine. To get to start accepting the caps letters again, close the window and try to start again.

Multiple plots: Jdesign will put things into the plot window from different experiments will, when updated, will lose things from outside the current experiment. Therefore, currently, it will only use plots from one experiment at a time.