

# Delta Tips

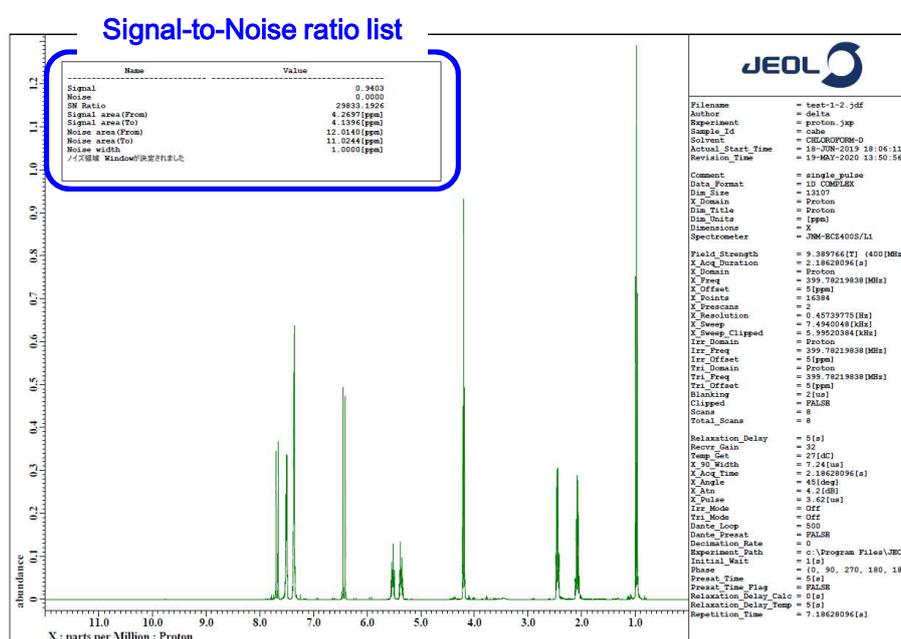
NMDT\_0071

NMR data processing software



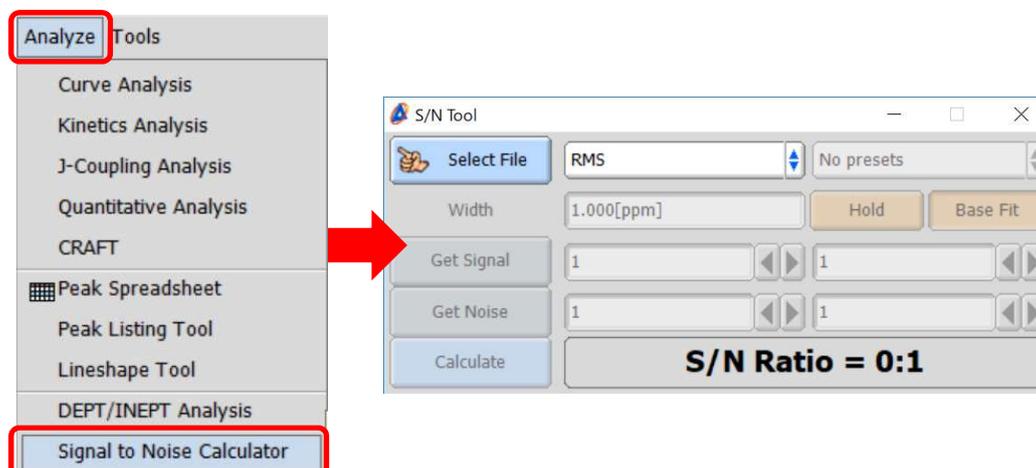
## Print a Layout with Signal-to-Noise Ratio Report

In Delta, it is possible to calculate signal to noise ratio (S/N ratio) of an NMR signal by using the **S/N Tool**. Then you can also display the calculated S/N ratio on the spectrum. This issue of Delta Tips explains how to use the **S/N Tool** and how to load this S/N ratio to the **Page Layout Editor**. This function is useful in regular maintenance of your NMR system.



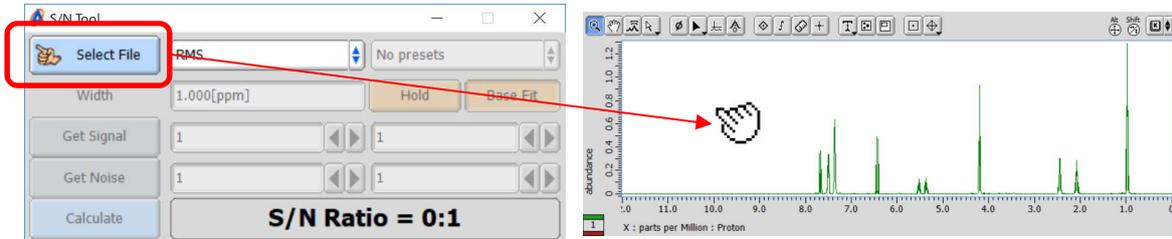
### How to use the S/N Tool :

- ① Select **Analyze—Signal to Noise Calculator** on the menu bar to open the **S/N Tool** window.

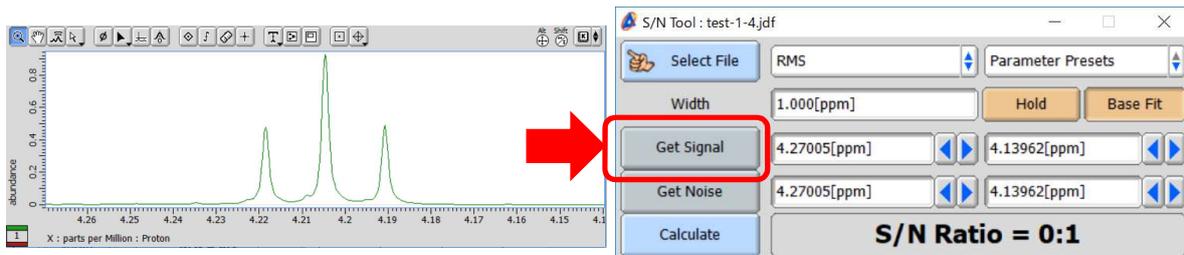


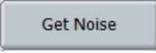
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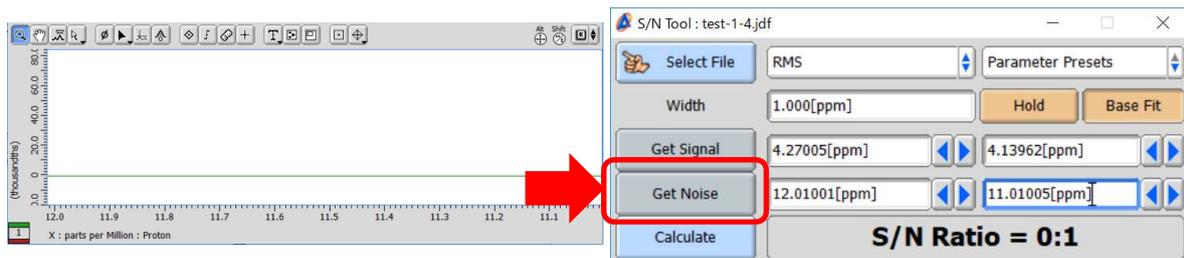
- ② Click the **Select File** button  in the **S/N Tool** window and select a data to load the data to the **S/N Tool** window.

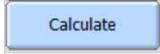


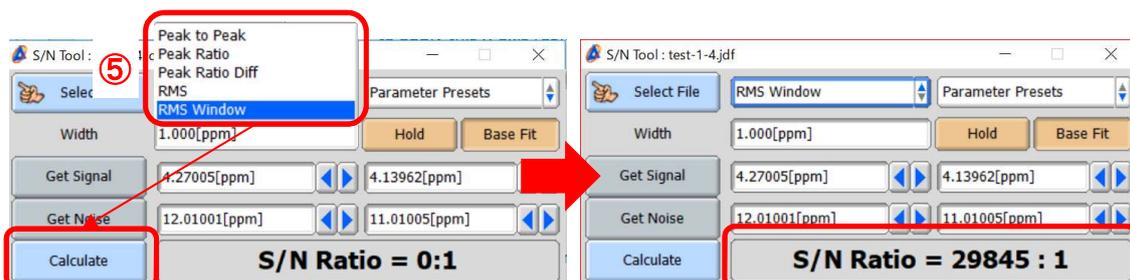
- ③ Zoom the signal whose S/N ratio you are going to calculate and click the **Get Signal** button  to load the upper and lower limits to the **Get Signal** input boxes.



- ④ Zoom the range which you wish to calculate noise from and click the **Get Noise** button  to load the upper and lower limits to the **Get Noise** input boxes.

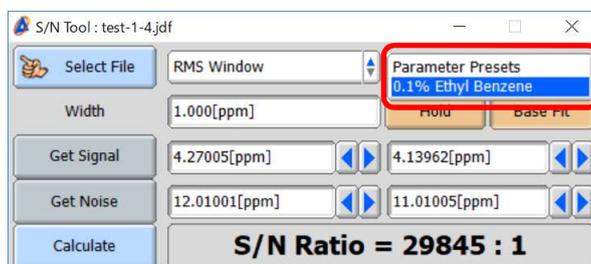


- ⑤ Select an algorithm from the List ⑤ and then click the **Calculate** button  to display the result of S/N ratio calculation in the **S/N Tool** window as shown below.

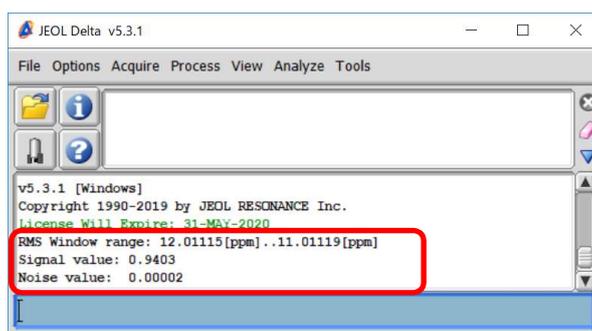


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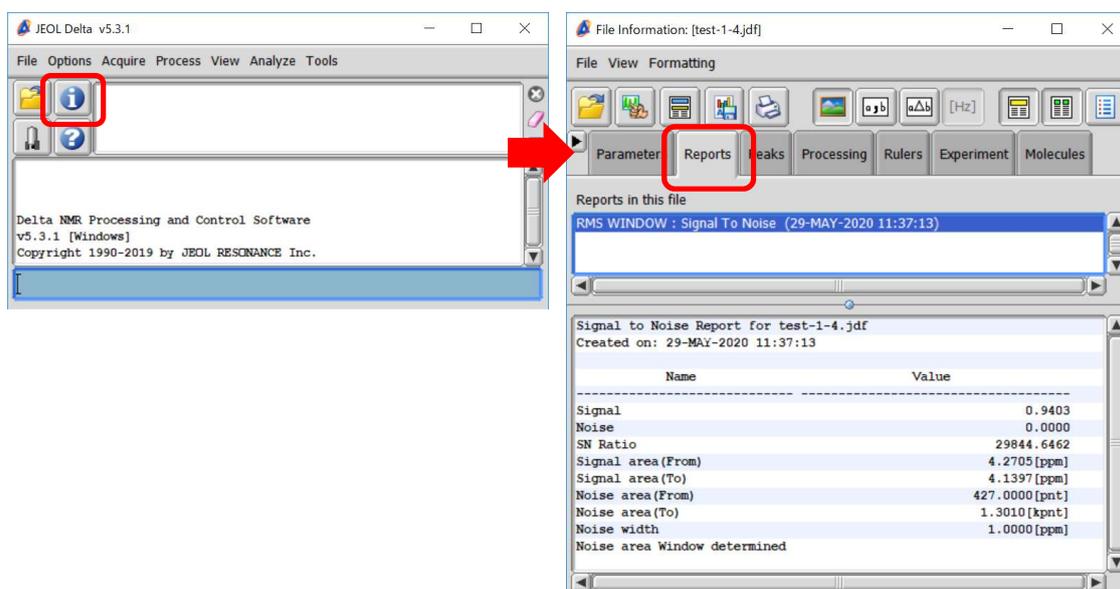
- ★ If you need to calculate S/N ratio on a spectrum of standard sample, select the standard sample from the **Parameter Presets** list in the **S/N Tool** window.



- ★ Additional details related to the S/N ratio calculation can be found in the **Delta Console** window as shown in the example below:



- ★ It is also possible to create a report on the S/N ratio calculation as follows:  
Click the **File Information** button in the **Delta Console** window to open the **File Information** window. Select the **Reports** tab and select the report in the **Reports in this file** box.



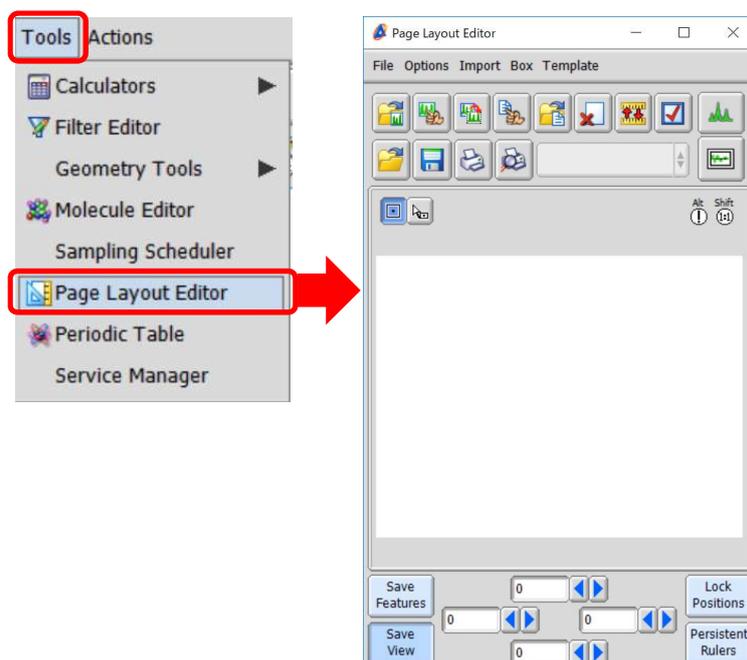


## How to create a layout :

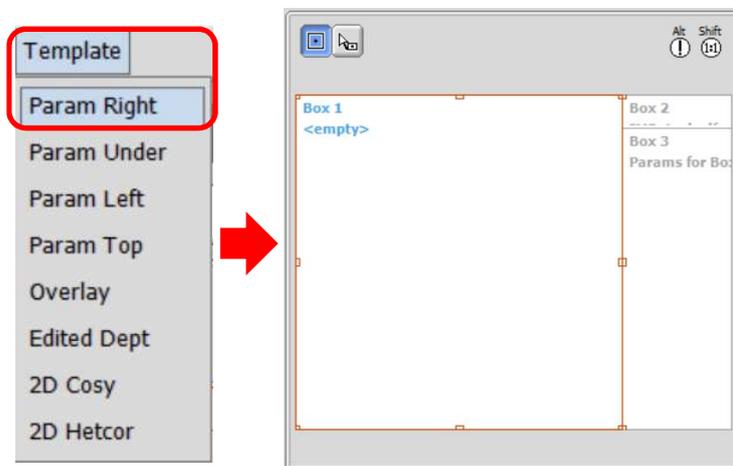
In the example below, we will demonstrate how to make a layout with calculated S/N ratio by using the **Page Layout Editor**.

- ★ For the details on creating a layout, refer to the Delta Tips issue titled **How to Make a Print Layout (1)** (⇒NMDT\_0068).

- ① Select **Tools—Page Layout Editor** to open the **Page Layout Editor** window.



- ② Select a template from the **Template** list on the menu bar in the **Page Layout Editor** window. In the example below, we have selected the **Param Right** template to load this template to the **Page Layout Editor**.



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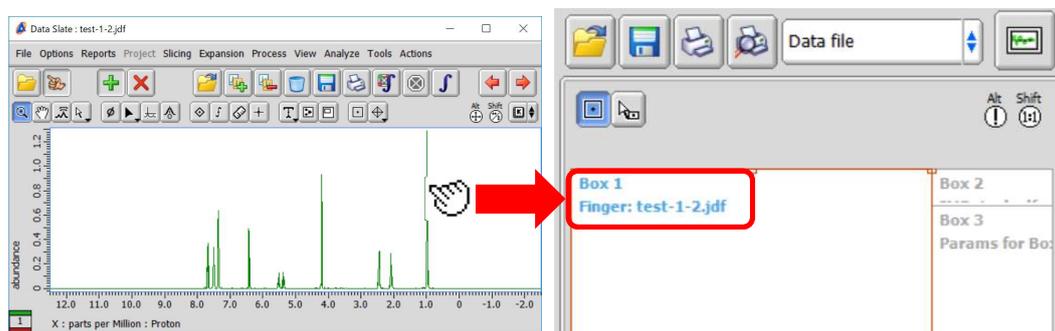
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③ Select a data box in the **Page layout Editor** window and then click the **Select Data** button . Note that the cursor has changed into the **Finger** cursor .

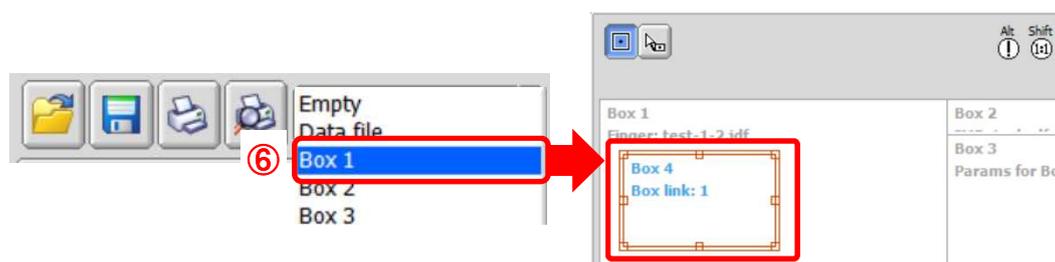
④ Select a data with the **Finger** cursor  to load this data to the data box. Note that the name of the selected data is shown in the data box.



⑤ Create a data box to display the result of S/N ratio calculation. Click the **Region** button  and drag the cursor  to create a data box.

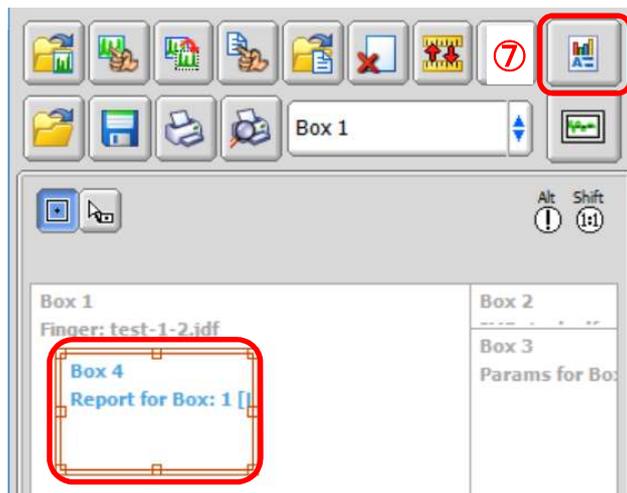


⑥ Link the data boxes. Select a data box and then select a source data box from the **Select Data list** . In the example below, we have linked **Box 4** to **Box 1**.

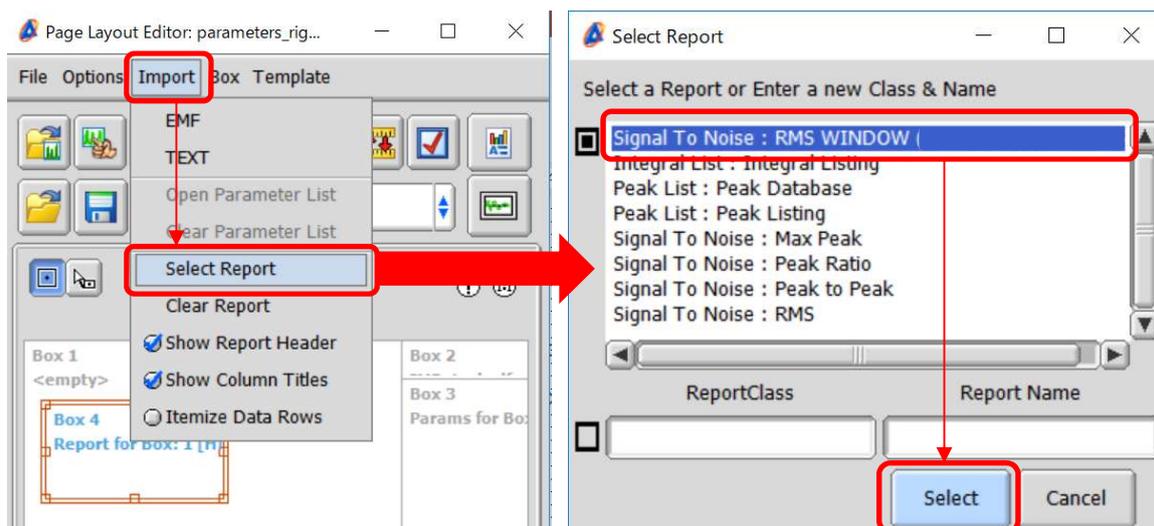


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- ⑦ Select the data box and click the button ⑦ to select **Data/ Parameters/ a Report/ a Processing List**. In the example below, we have attributed a **Report** to **Box 4**.

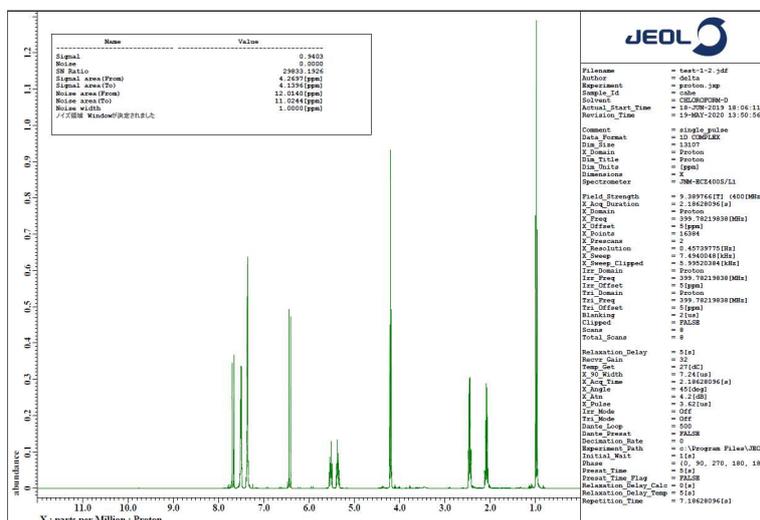


- ⑧ Select **Import—Select Report** to open the **Select Report** window. Select the **Signal To Noise : RMS Window** report from the list and click the **Select** button  to load the report.





⑨ Click the **Print** button  to print the spectrum.



- ★ For the details on saving a layout, refer to the Delta Tips issue titled **How to Make a Print Layout (1)** (⇒NMDT\_0068).
- ★ For the details on setting features of data boxes, refer to the Delta Tips issue titled **How to Make a Print Layout (3)** (⇒NMDT\_0070).

### How to set font:

It is possible to set the size and style of letters in a data box as follows:  
Select **Box—Attributes** to open the **Attributes** window.

- ★ For the details on the **Attributes** window, refer to the Delta Tips issue titled **Page Layout Editor (Part 1)** (⇒NMDT\_0019).

