

Delta Tips

NMDT_0016

How to Report Multiple Relaxation Time Values

NMR data processing software


Delta

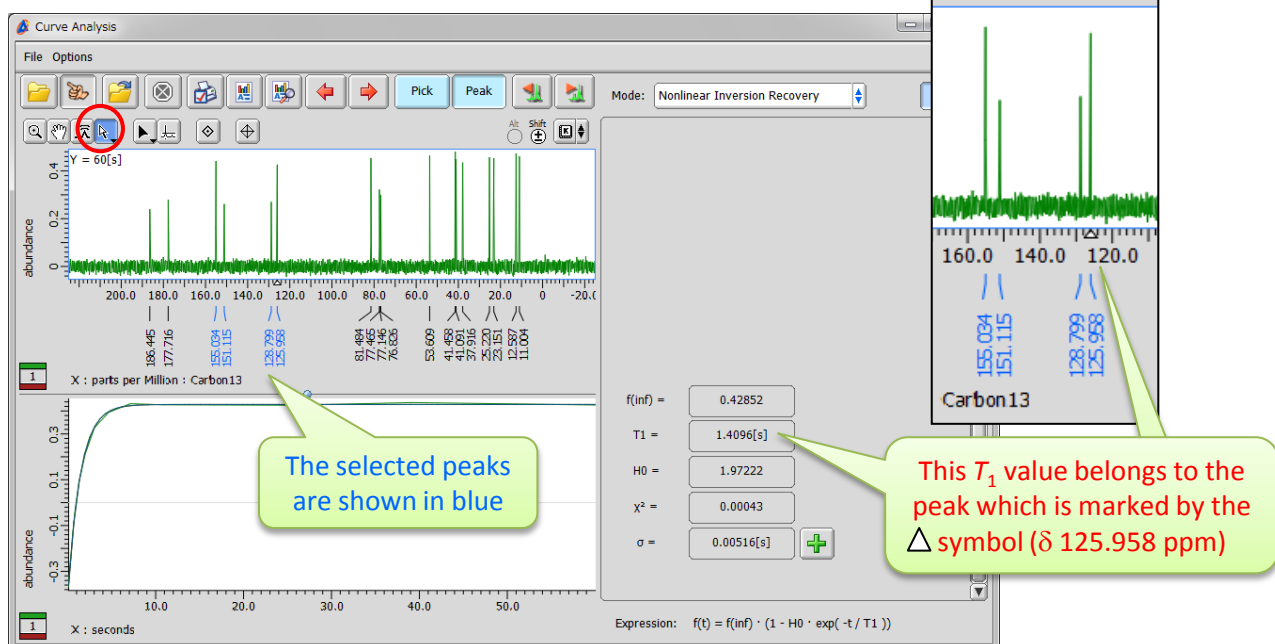
NMR Software



v5.0



This issue of Delta Tips demonstrates how to report spin-lattice relaxation time (T_1) values of **multiple** peaks at once.

- Click the  button to activate the selection mode in the **Curve Analysis** window. Select the peaks of interest to calculate and report their T_1 values. We have selected four signals.



- ★ If a group of peaks is selected, it is possible to switch from one peak to another one within the group by clicking the   buttons.

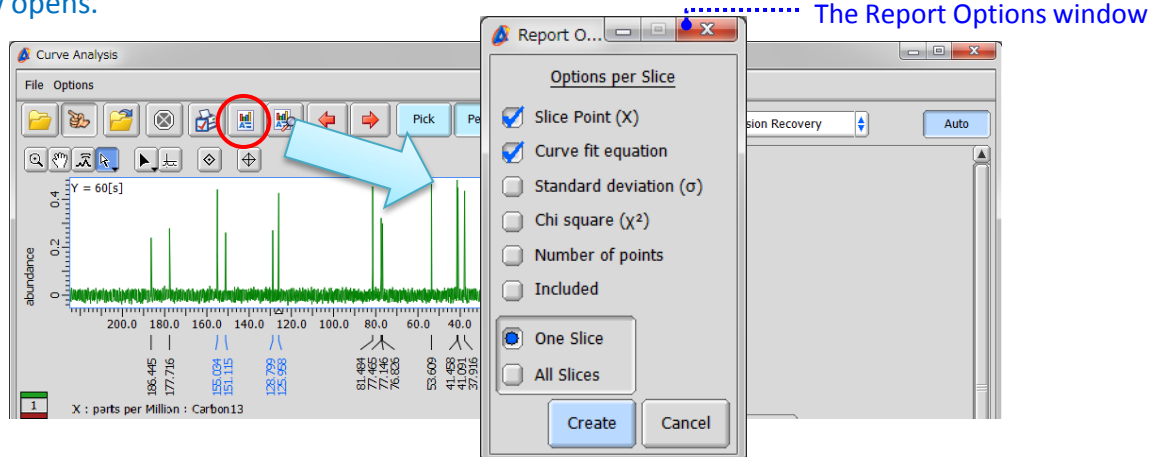


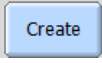
Move to left

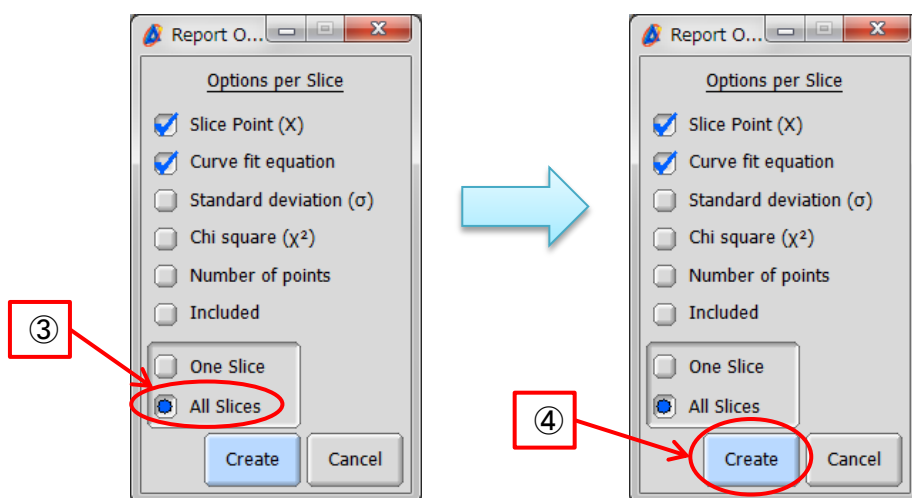



Move to right

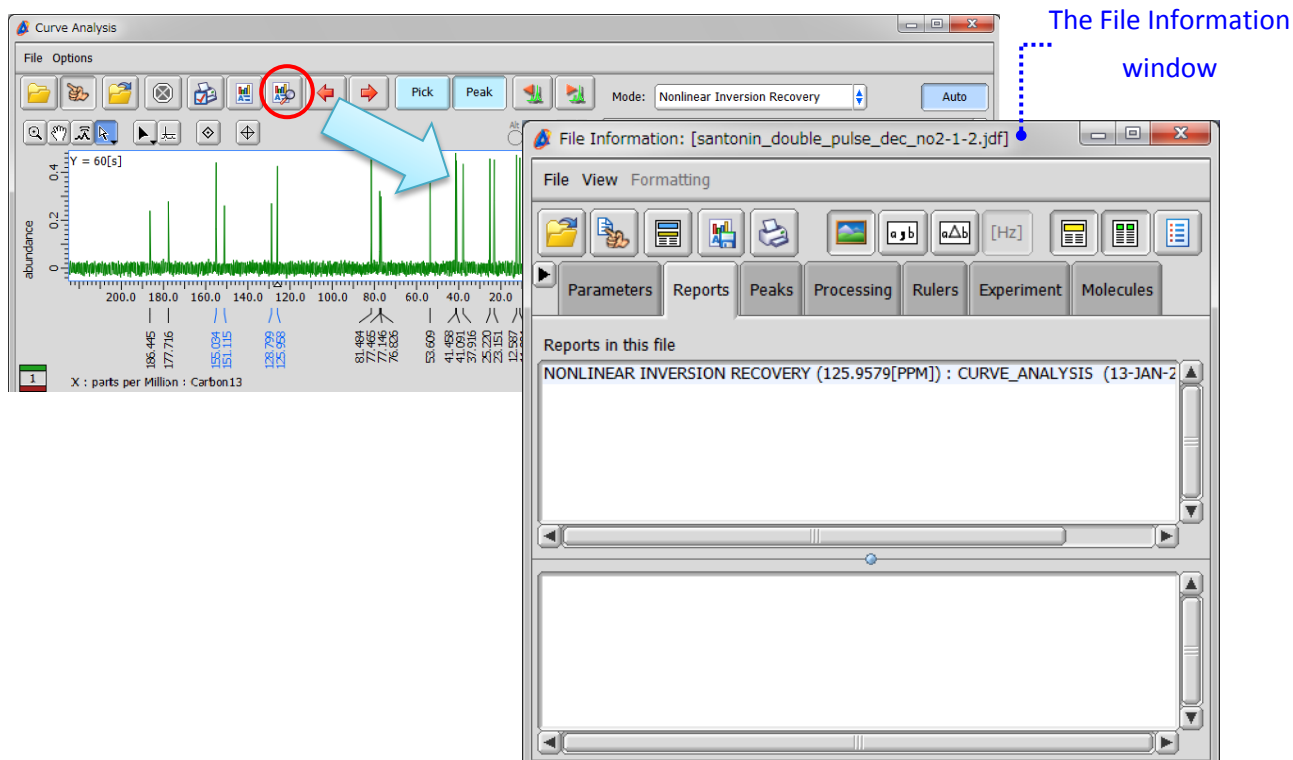
- Click the  button in the Curve Analysis window to create a report. The **Report Options** window opens.



- ③ Select the 'All Slices' option in the Report Options window. The other check boxes allow you to customize content of report.
- ④ Click the  button to create the report on all the peaks selected above.



- ⑤ Click the  button to view the report. The **File Information** tool opens and the **Reports** tab is automatically displayed.





⑥ Select 'CURVE_ANALYSIS' to display the report.

The Reports tab

List of reports

Report

File Information: [santonin_double_pulse_dec_no2-1-2.jdf]

File View Formatting

Parameters Reports Peaks Processing Rulers Experiment Molecules

Reports in this file

NONLINEAR INVERSION RECOVERY (125.9579[PPM]) : CURVE_ANALYSIS (13-JAN-2)

santonin_double_pulse_dec_no2-1-2.jdf

Vector at 125.9579 [ppm]

Nonlinear Inversion Recovery

$$f(t) = f(\text{inf}) * (1 - H_0 * \exp(-t/T_1))$$


$f(\text{inf}) = 0.42852$

$T_1 = 1.4096 [\text{s}]$

$H_0 = 1.97222$

X	Y	Intensity
125.958 [ppm]	0.1 [s]	-0.366
125.958 [ppm]	0.153 [s]	-0.332
125.958 [ppm]	0.235 [s]	-0.283
125.958 [ppm]	0.359 [s]	-0.229

⑦ Save the report in a file as shown below.

- ★ Click the  button to save the report on relaxation data as a text file (*.txt).
- ★ Select **File – Save Report As** to save the report as a text file (*.txt), comma separated value file (*.csv) or tab separated value file (*.txt).

File Information: [santonin_double_pulse_dec_no2-1-2.jdf]

File View Formatting

Open...
Open (Read Only)... ^+0
Finger ^+I
Allow Editing
Compare...
Save Report ^+5
Save Report As
Print Report
Report Header Params
Exit ^+Q

Processing Rulers Experiment Molecules

NONLINEAR INVERSION RECOVERY (125.9579[PPM]) : CURVE_ANALYSIS (13-JAN-2)

Text File
Database (CSV)
Database (CSV) with no units
Database (Tab Delimited)
Database (Tab Delimited) with no units