

What is new in UNIFIT 2027?

Main focus of the advancement to the **UNIFIT 2027** software was the completely rework of the programme code and therefore the reduction of the software bugs. Seven additional programme features were implemented. The stability of the software handling, the loading and saving of Unifit projects were improved.

New implemented:

1. The 18. different PHI *.spe data-file format was implemented. Now data files in the *.spe format with the PHI software-version number SS 3.3.3.2 are loadable using the Unifit software.
2. The design of the peak-fit components was improved. Now, the component lines can be plotted using a monochrome or a polychrome colour. Each component line can have a different colour. The fill colour and the line colour is the same (see Fig 1, Fig. 2 and Fig. 3).
3. The dialogue 'Parameter Plot' was completely re-worked (see Fig. 6).
 - a) The colour of the lines and symbols of all plotted lines are displayed directly in the frame 'Symbols'.
 - b) The colour of the lines and symbols can be defined automatically.
 - c) The colour of a selected line or symbol can be transferred with the button 'All'.
 - d) The defined colour of the lines can be transferred to the symbols with the button '>>>'
 - e) The shape and the thickness of a selected line can be transferred to all lines with the buttons 'All' in the corresponding frame.
 - f) The shape and the thickness of a selected symbol can be transferred to all symbols with the button 'All' in the corresponding frame.
4. In the special spectra window 'Plot 3D Waterfall 0°', 'Plot 3D Waterfall 45°' and 'Plot 3d Waterfall -45°' the plotted spectra can be removed. With the check boxes 'Plot' in the dialogue 'Annotation/Design – Legend/Select Curves' the spectra can be plotted or removed. The intensity axis is not rescaled.
5. In case the number of plotted curves in the 'Plot 3D Waterfall 0°', 'Plot 3D Waterfall 45°' and 'Plot 3d Waterfall -45°' windows is lower than eleven then the legend is displayed automatically.
6. In the dialogue 'Quantification – Concentration' was the new button 'Save 3 (*.pai)' implemented (see Fig. 5). This button activates a menu for the saving of pai files. These files are used for the estimation of the transmission functions with the QPA method. In former UNIFIT version this function could be activated by 'ALT-s' or 'ALT-a' only.

Reworked and corrected:

7. The function 'Annotation/Design – Legend/Select Curves' was reworked.

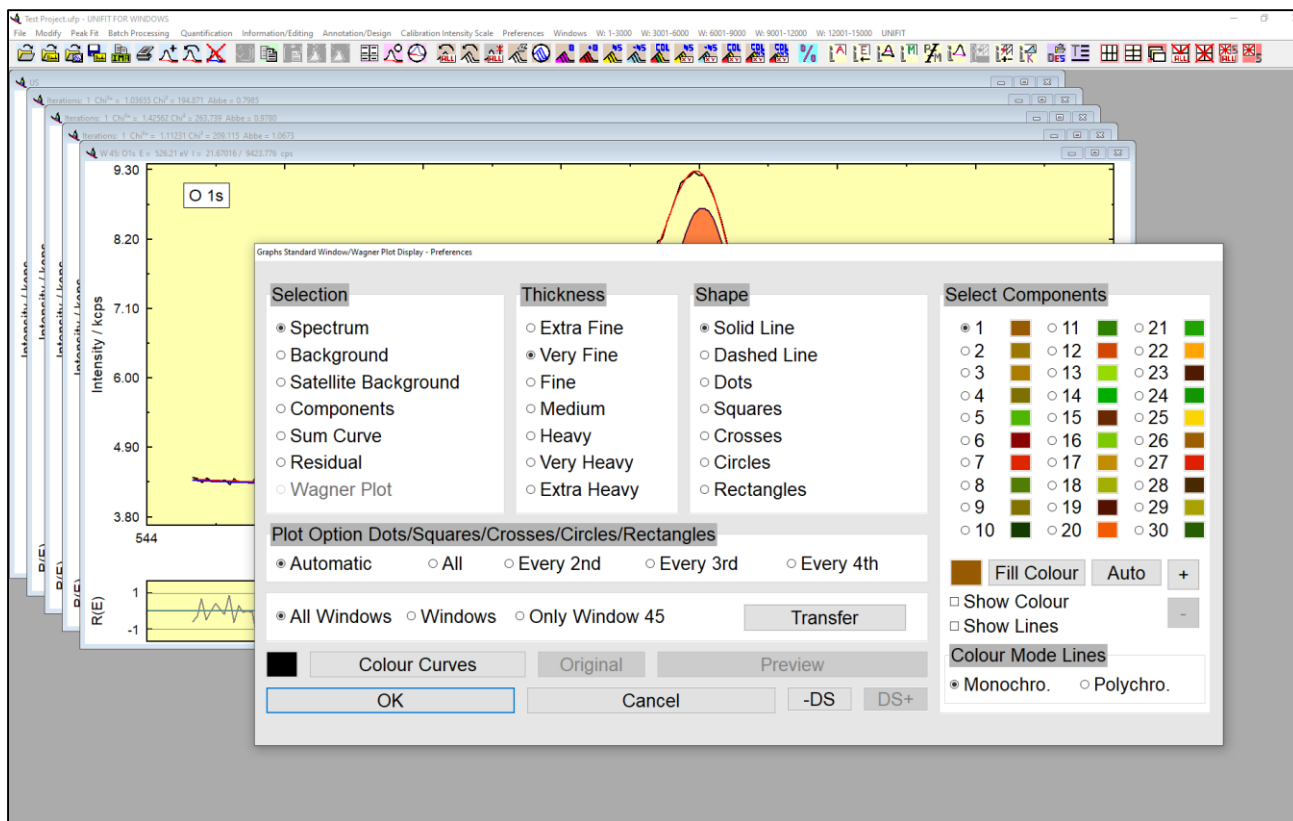


Fig. 1 Screen shot: Dialogue for setting of the preferences of the shape, thickness and colour of all curves displayed on the screen, setting of the fill and line colour of the components of the peak fit (Graphs Display)

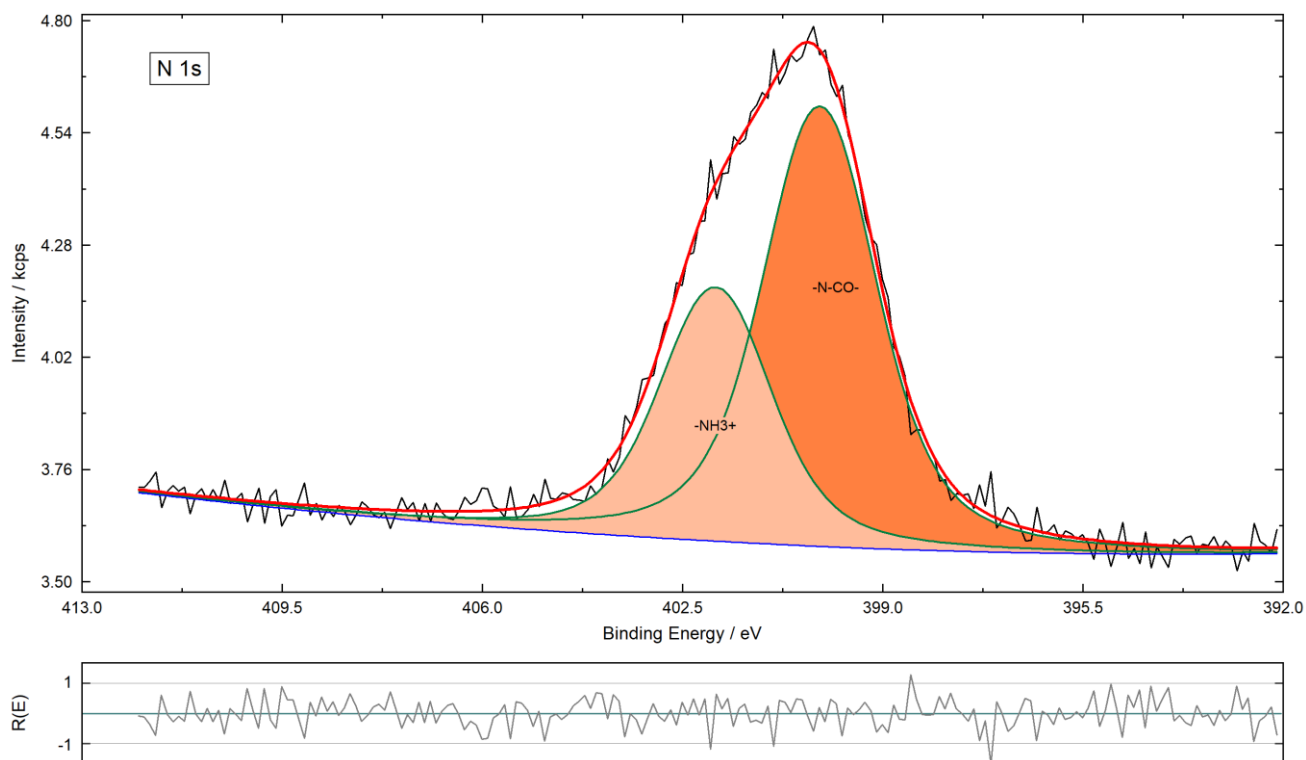


Fig. 2 Peak fit of N 1s, fill colour and monochromatic lines of the peak-fit components activated

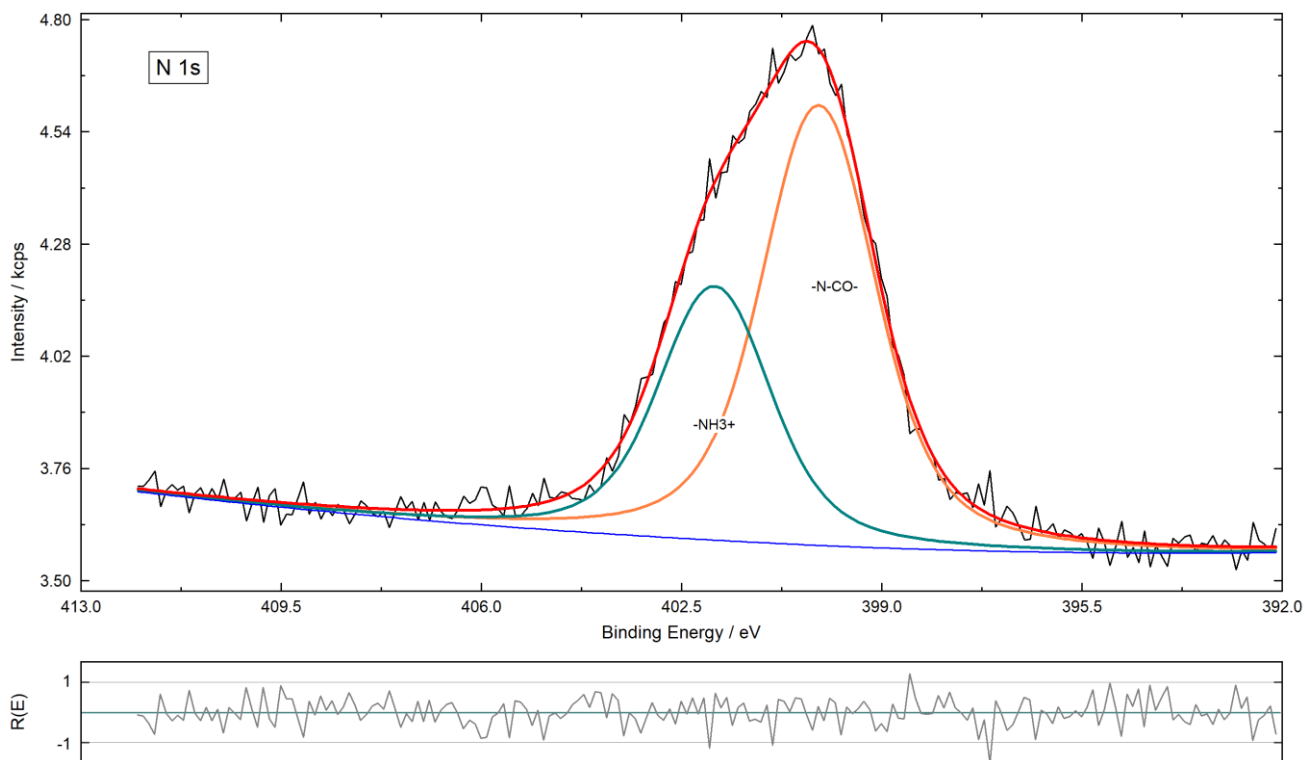


Fig. 3 Peak fit of N 1s, fill colour deactivated, polychromatic lines of the peak-fit components activated

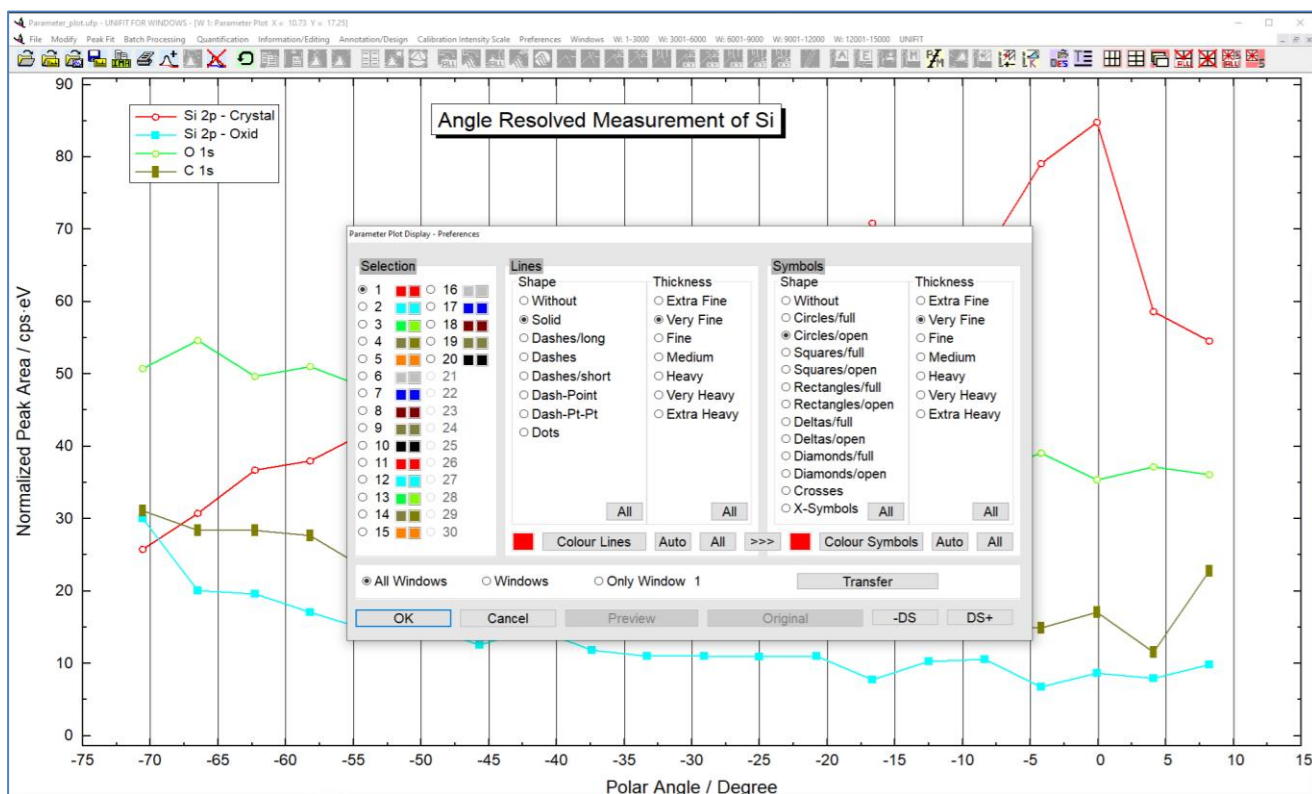


Fig. 4 Screen shot: Dialogue for setting the colour, shape and thickness of the 'Parameter Plot*' displayed on the screen

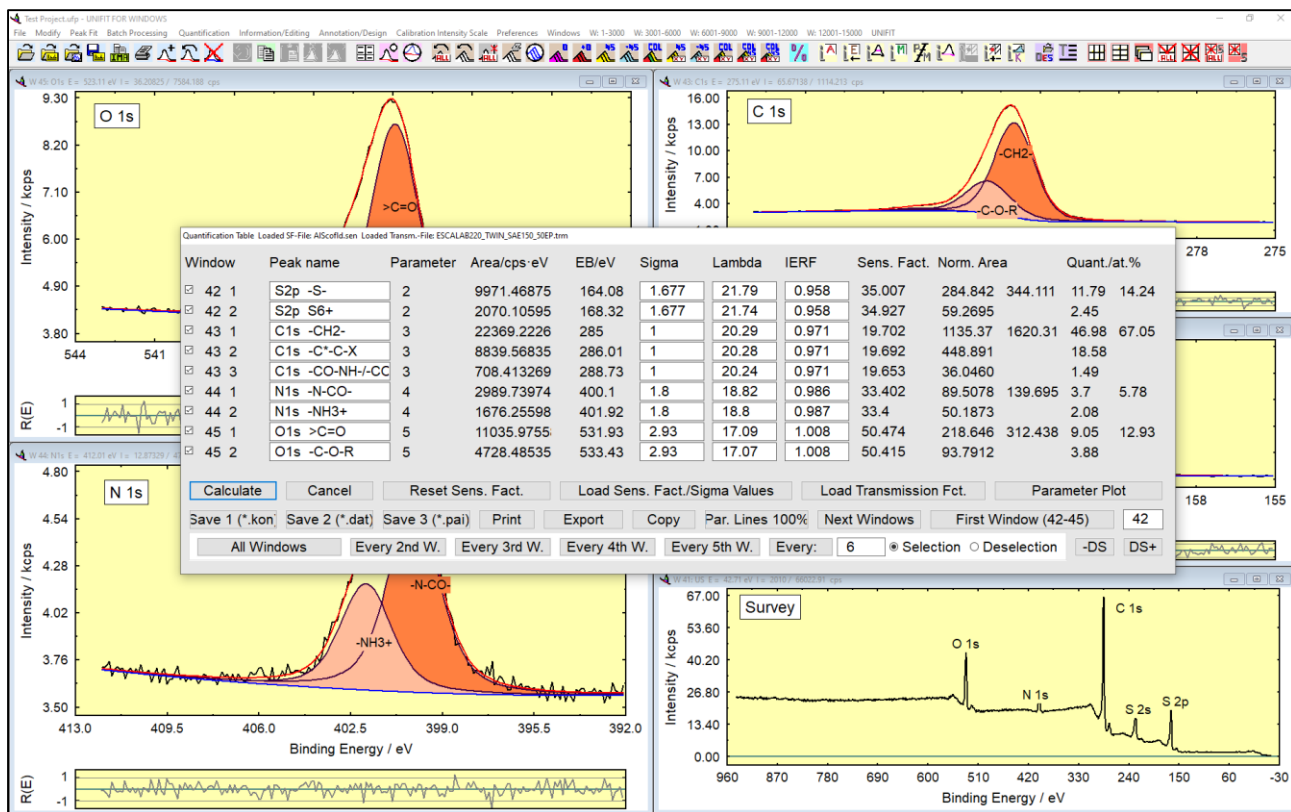


Fig. 5 Screen shot: Dialogue for dialogue 'Quantification'