Fitting in CASSIS

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Use case : multiple fit in Spectrum Analysis (SA)

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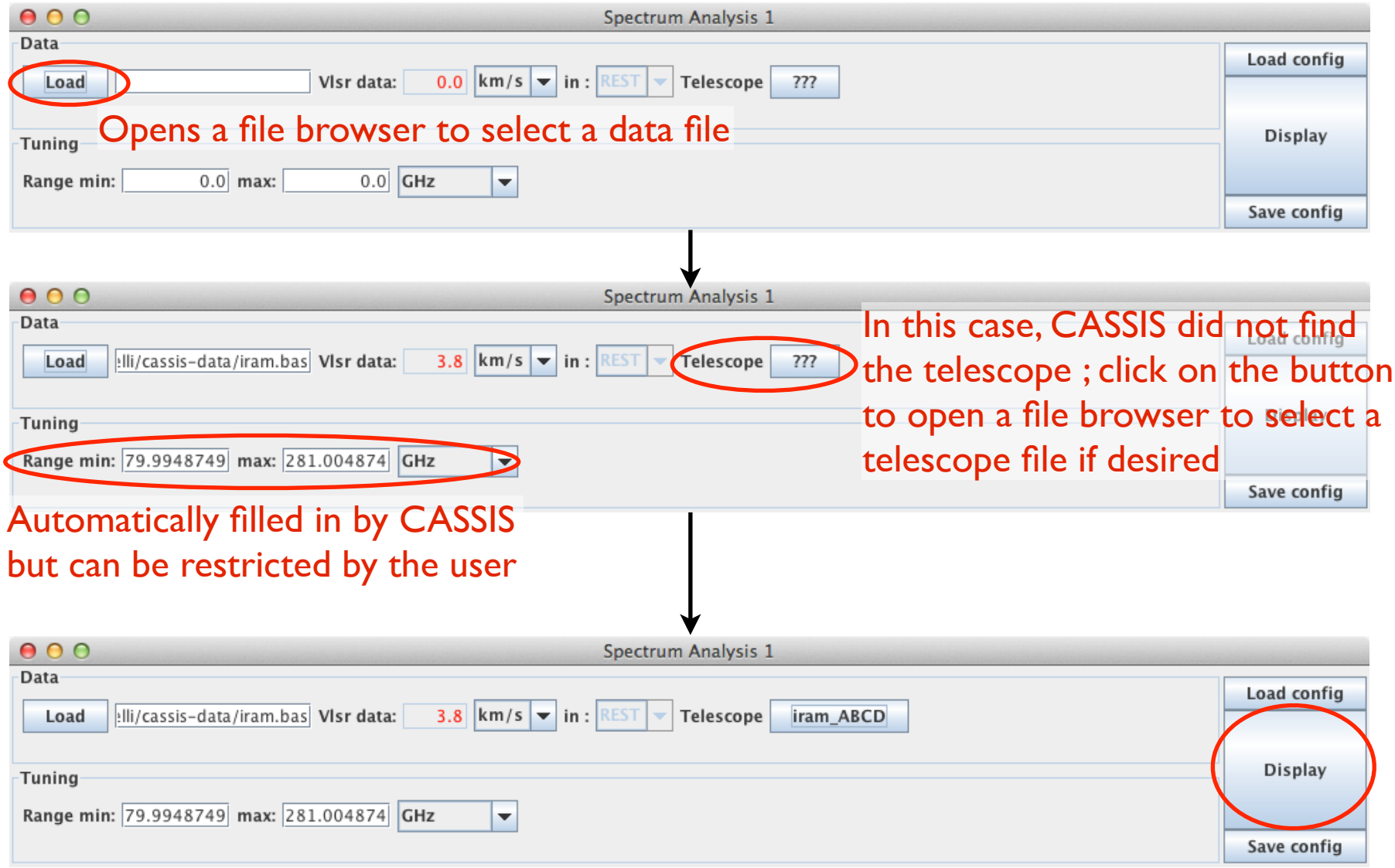
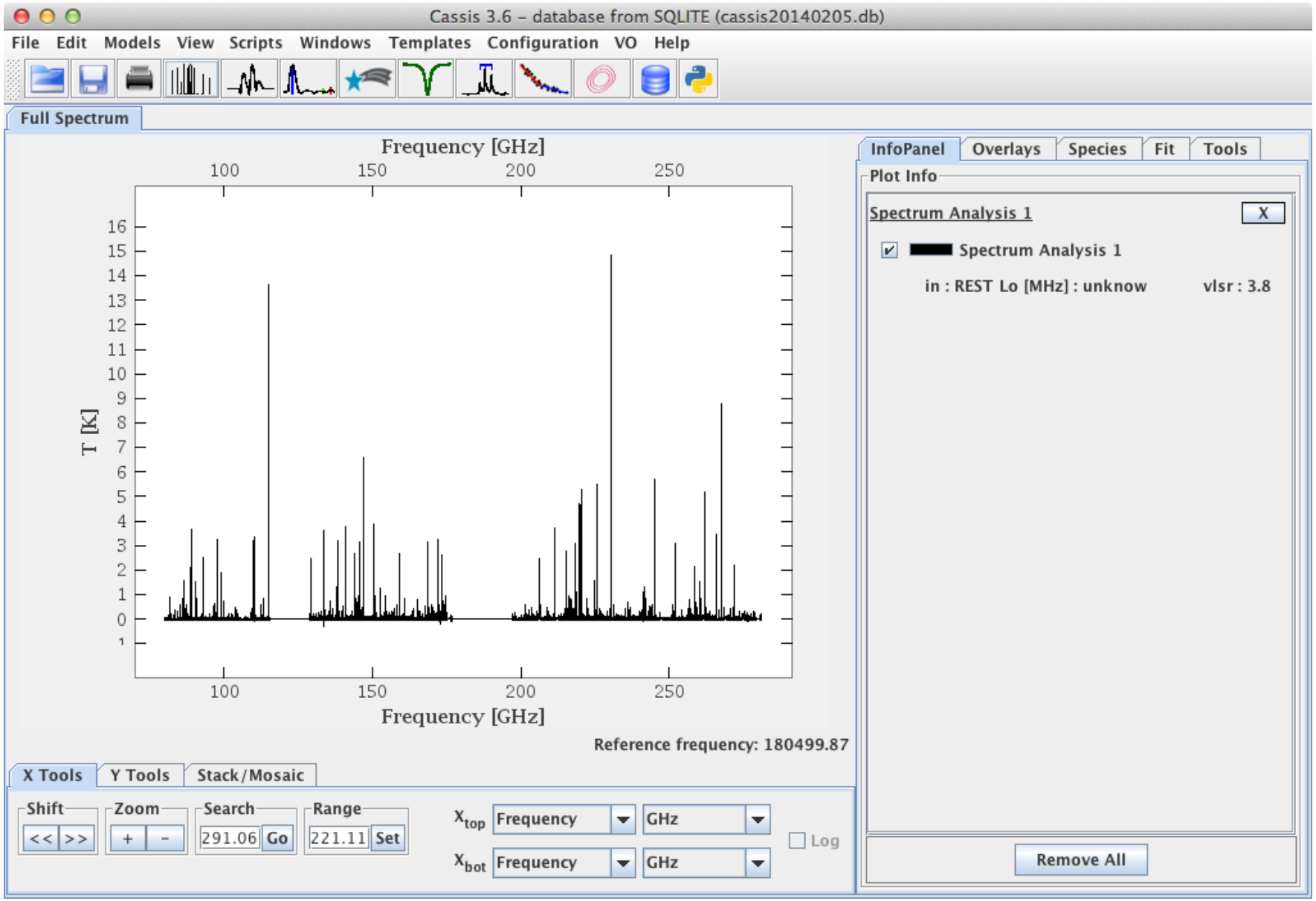
Multiple fit in SA

First load your data : click on the icon or go to the "Models" menu → Spectrum Analysis



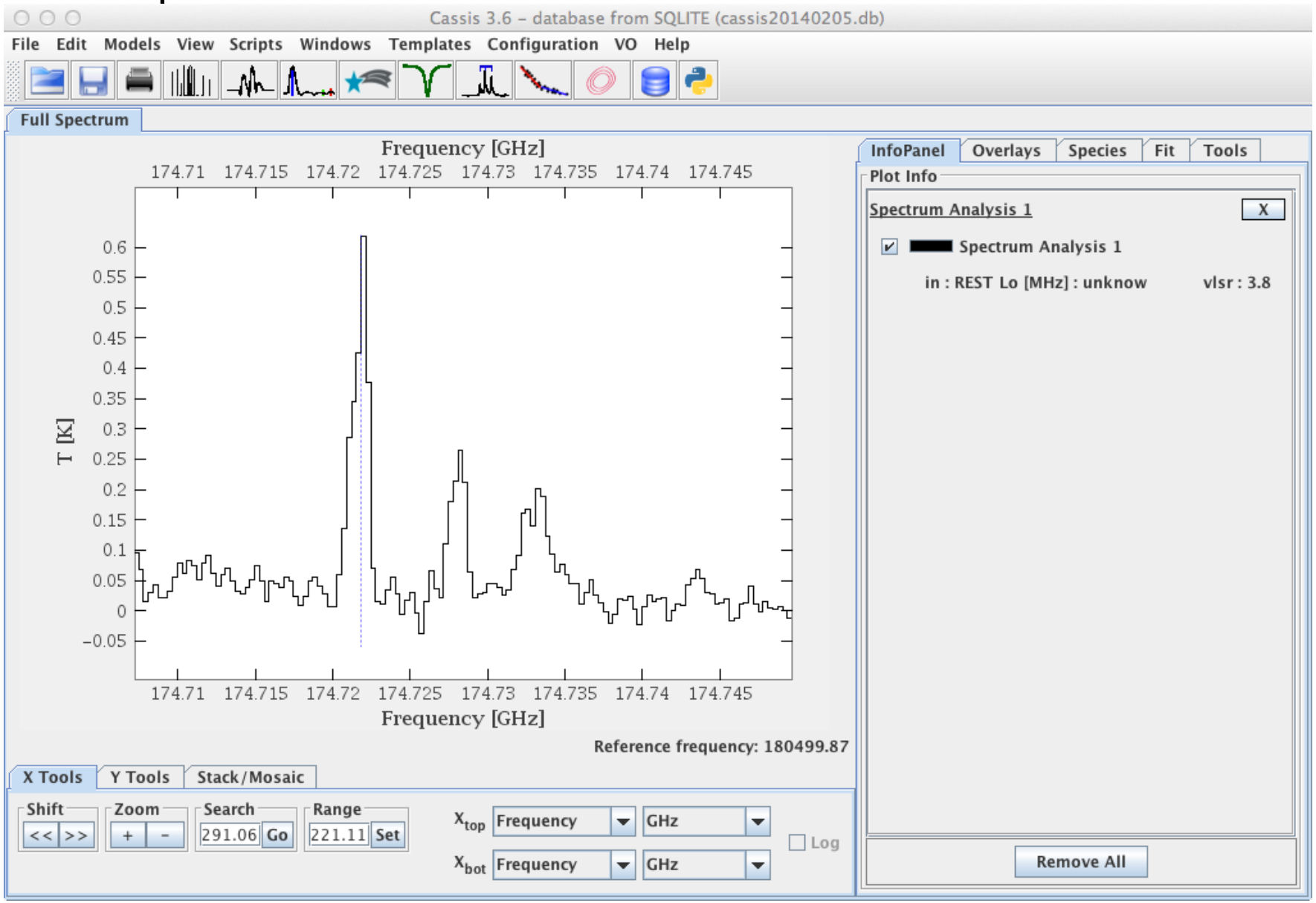
Multiple fit in SA

Display :



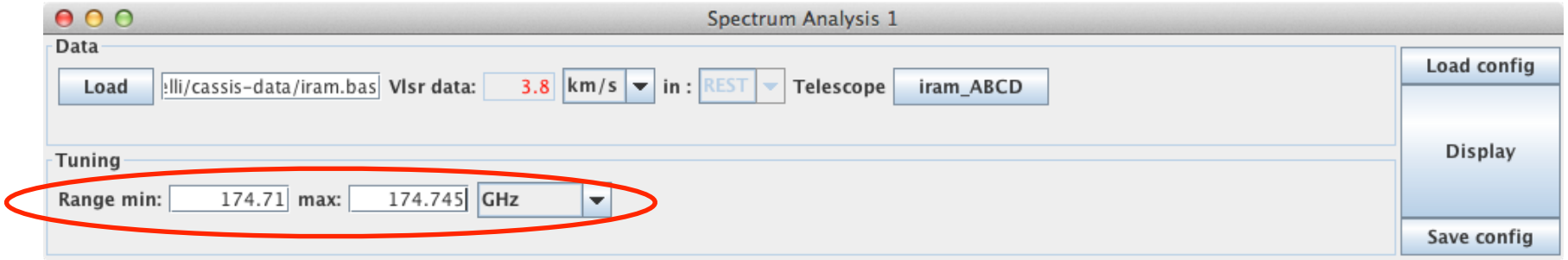
Multiple fit in SA

With the mouse or with the "X Tools" tab, zoom on a region where you want to perform a fit :



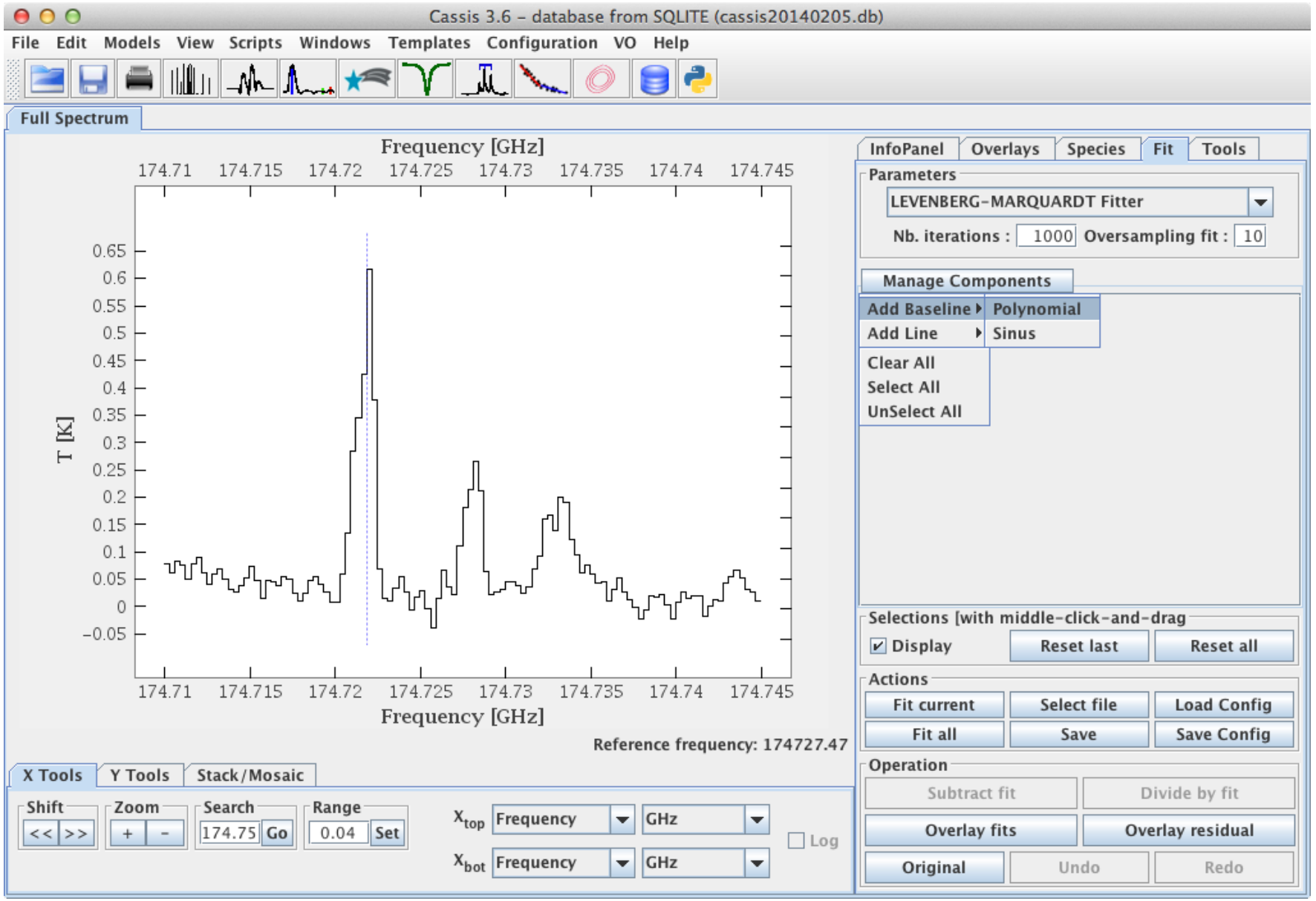
Multiple fit in SA

Warning: if we proceed with performing a fit, CASSIS will calculate the fitted function over the entire range of the "Tuning" section (SA data loading window), not just on the part that we have zoomed in. In this example, we loaded a spectrum with a large number of points, such that the fitting would take a long time. It is therefore important to restrict the tuning range once you have explored the spectrum.

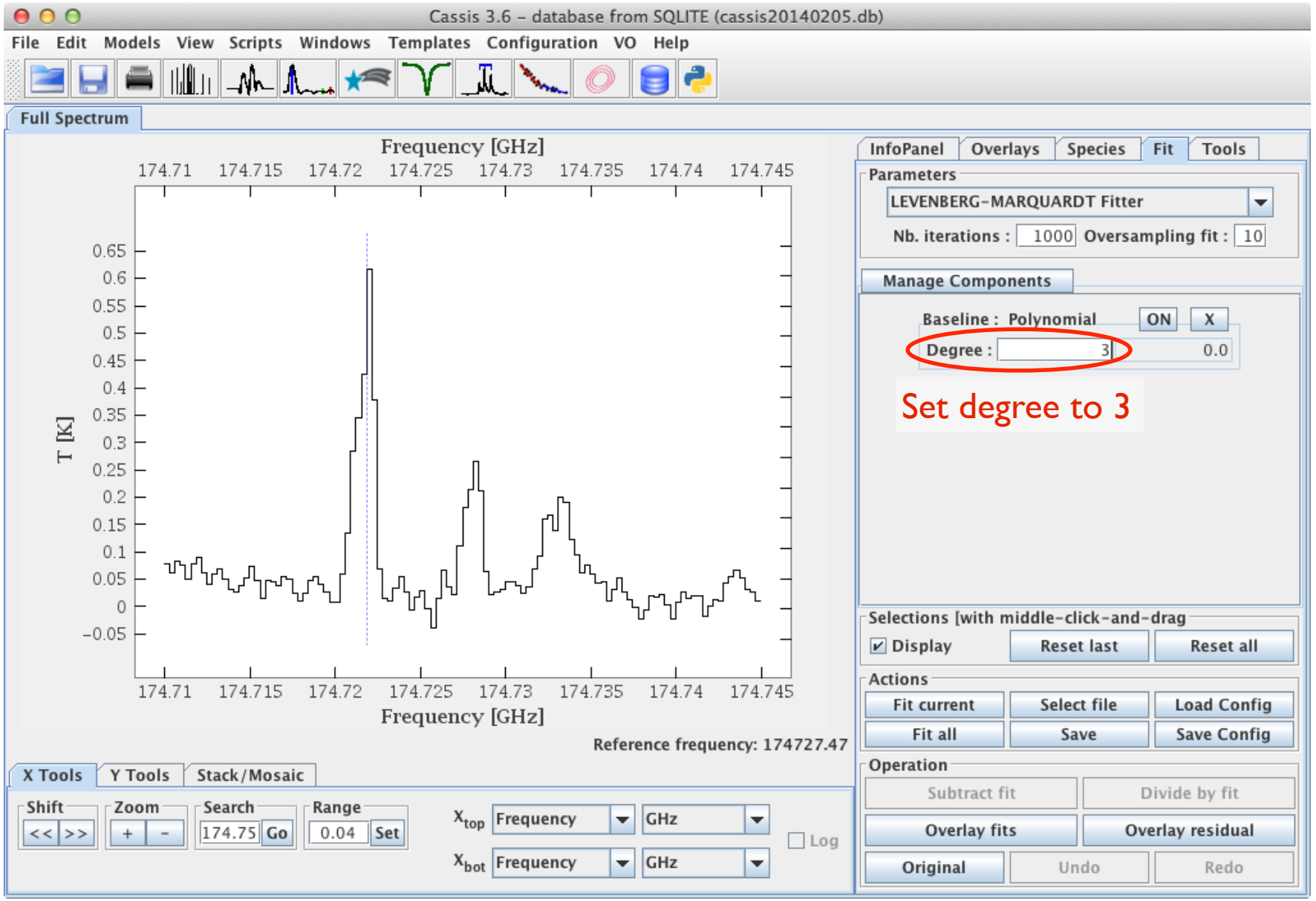


Multiple fit in SA

Go to the "Fit" tab and click on "Manage Components" → Add Baseline → Polynomial

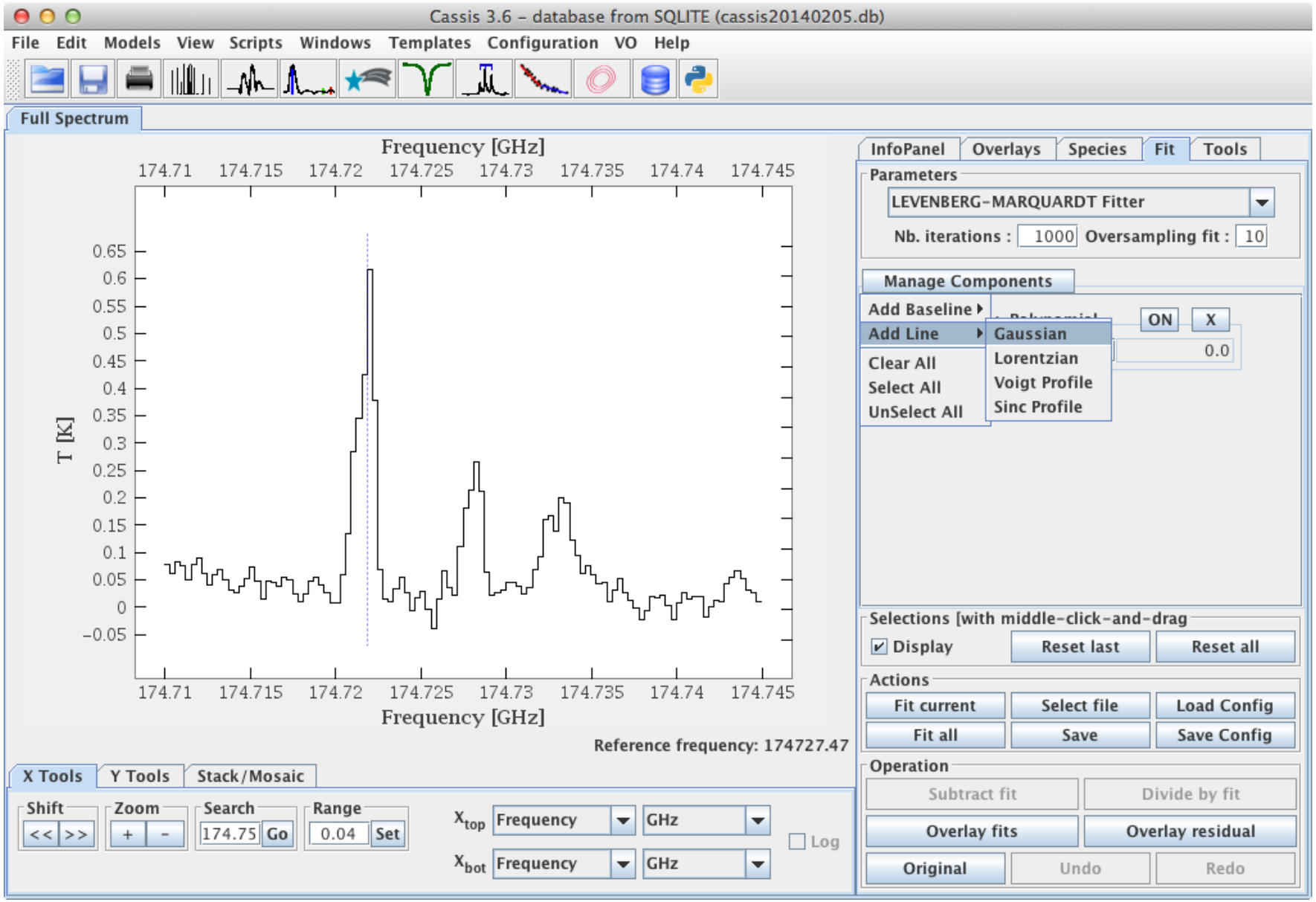


Multiple fit in SA

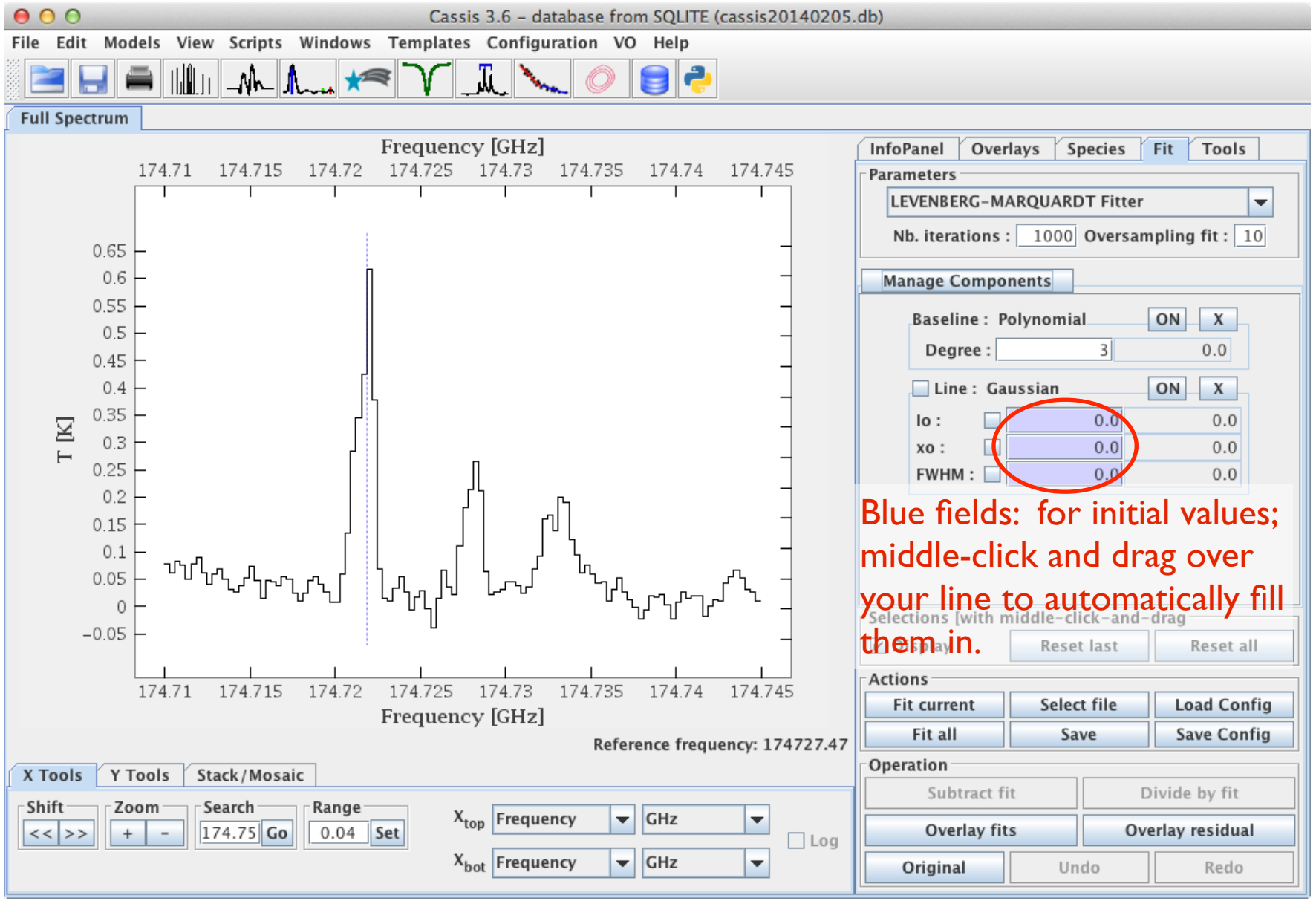


Multiple fit in SA

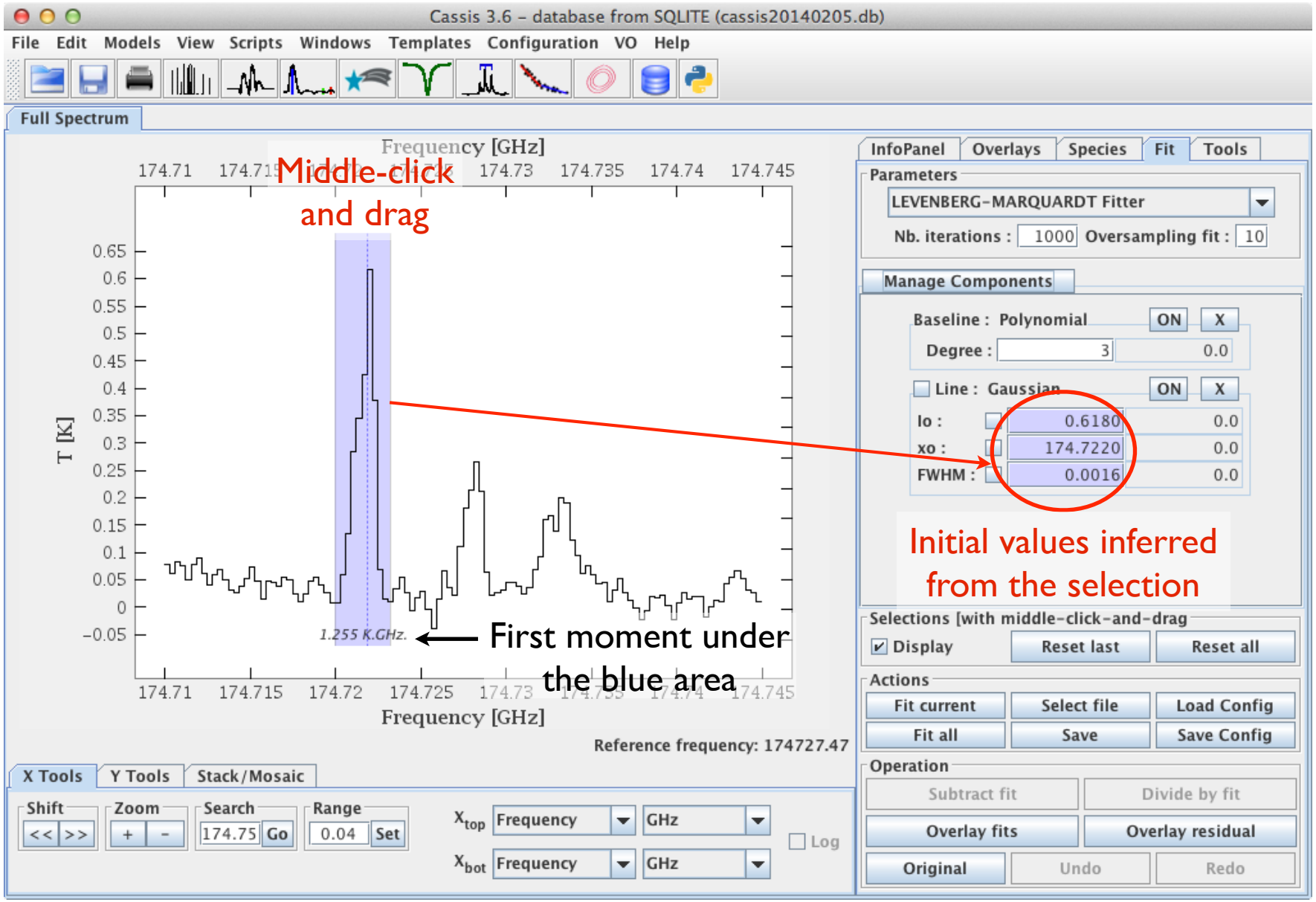
Click on “Manage Components” → Add Line → Gaussian



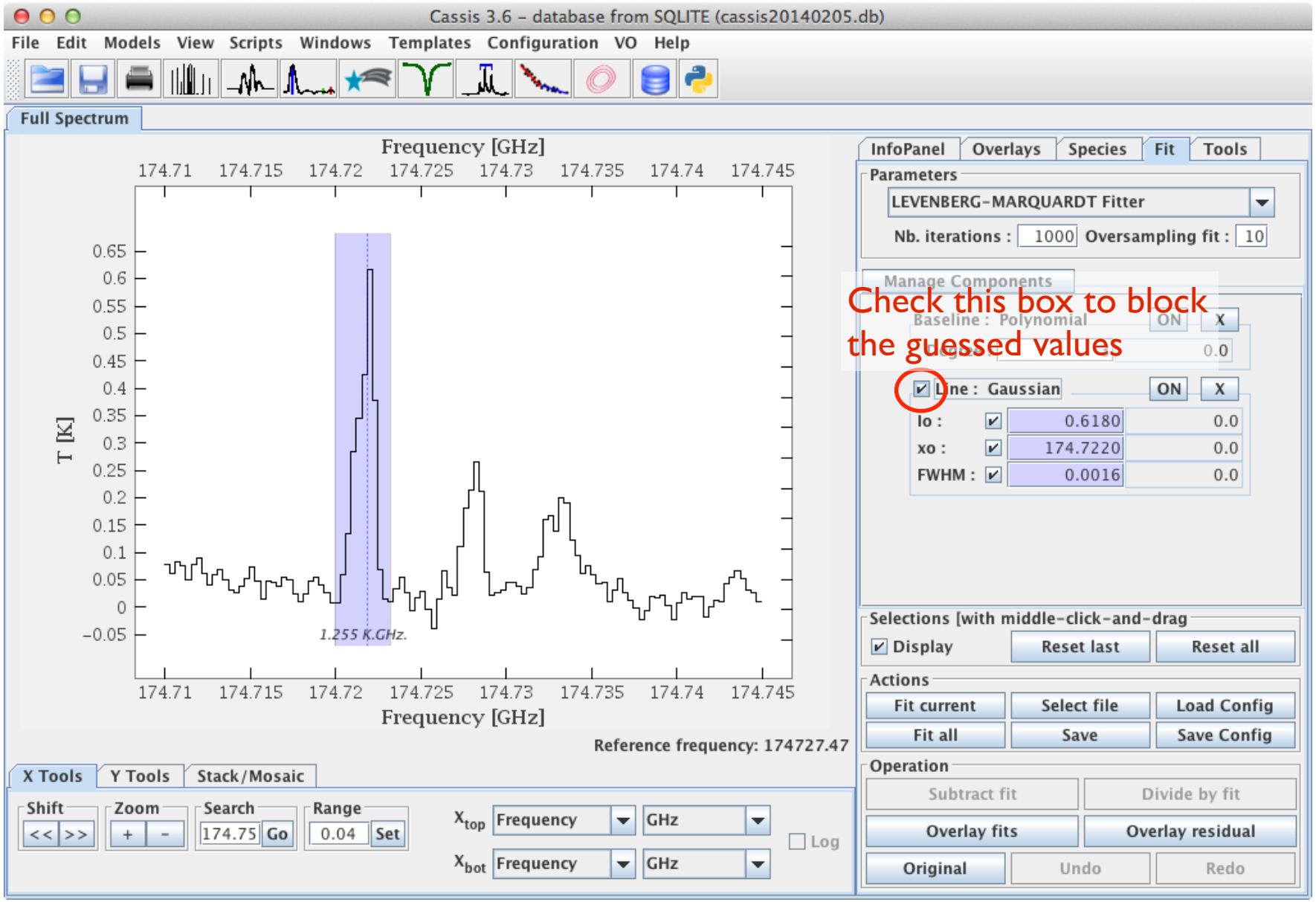
Multiple fit in SA



Multiple fit in SA

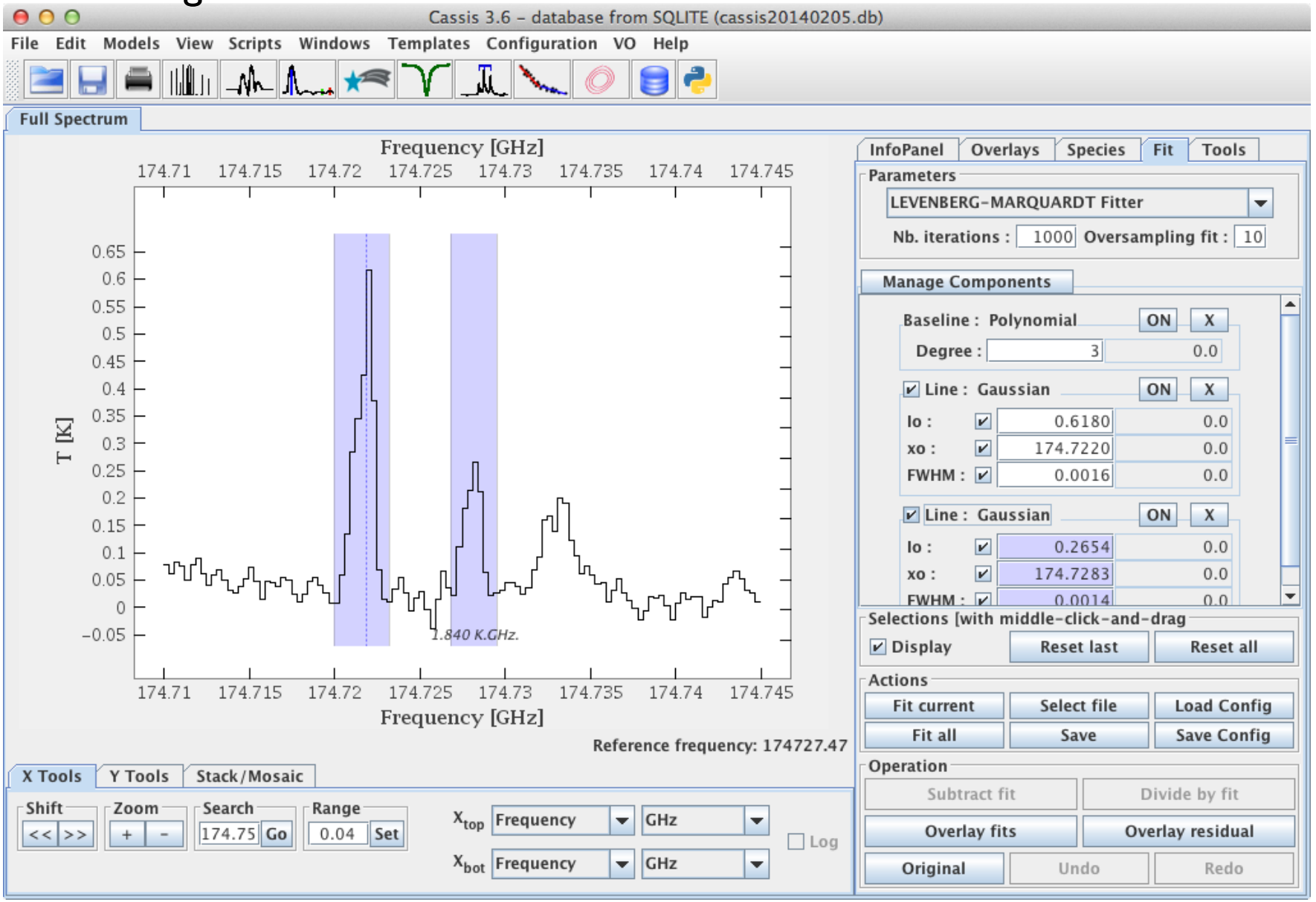


Multiple fit in SA



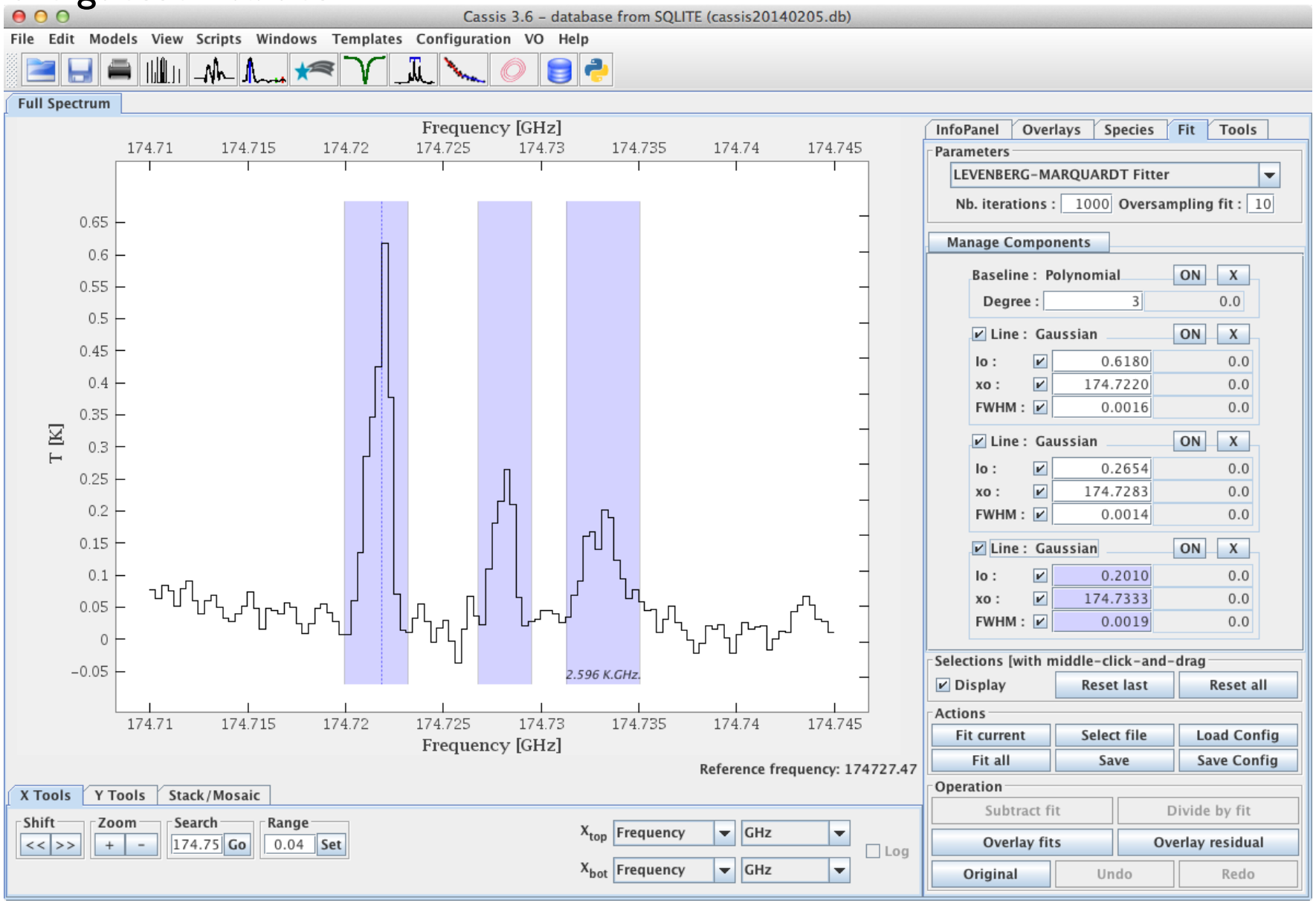
Multiple fit in SA

Add another Gaussian, middle-click and drag over the second line and block the guessed values

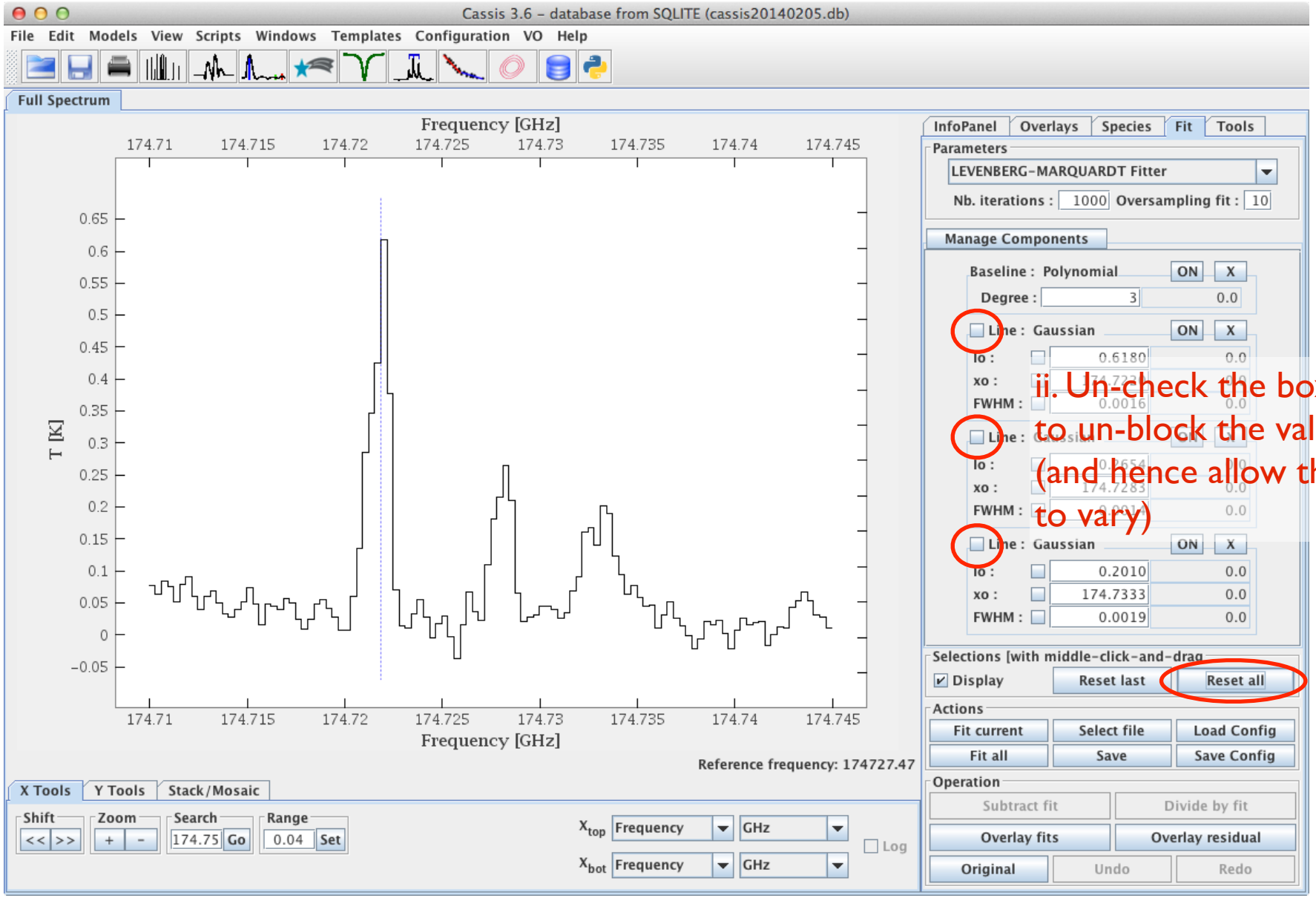
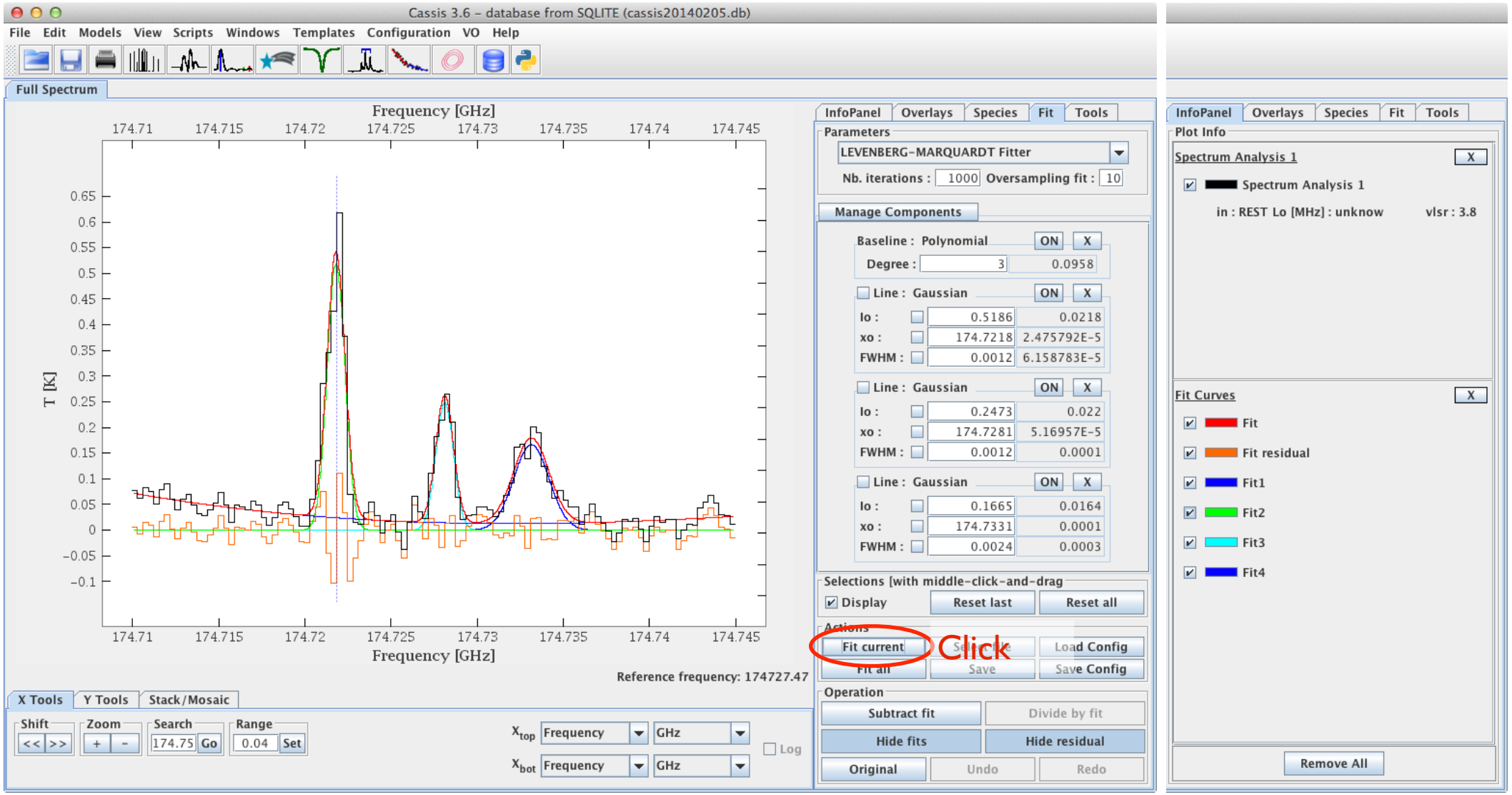


Multiple fit in SA

Add a third Gaussian, middle-click and drag over the third line and block the guessed values



Multiple fit in SA



Multiple fit in SA