



InsightMR is your solution for real-time reaction monitoring with NMR.

For easy set-up of InsightMR software follow these step-by-step instructions. Execute the steps in the order indicated.

Launch InsightMR

Click on the InsightMR desktop icon to launch the program [1].



Sample and Experiment Setup

Set up the sample position [2], the file name [3] and the solvent [4]. Then select the experiment type [5] (=parameter set).

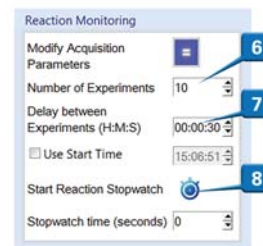


Sample and Experiment Setup

Series of Experiments

Set up the number of experiments [6], delay between experiments [7] and click on the stopwatch when the reaction starts [8].

The delay between mixing of the reagents and the start of acquisition will be accounted for automatically. If a stopwatch is not used this delay will be zero.



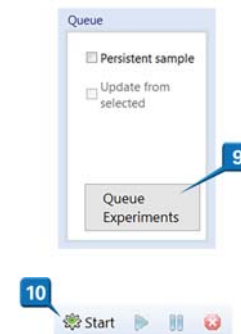
Sample and Experiment Setup

Queue Experiments

Click on *Queue Experiments* [9].

Start Experiments

Click on *Start* for acquisition to start [10].



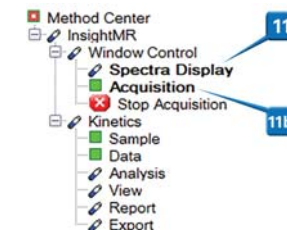
Sample and Experiment Setup

Display Processed Spectra

Click on *Spectra Display* [11] to go to the analysis window and take a look at the spectra.

Switch Back to Acquisition

Go back to acquisition by clicking on *Acquisition* [11b] should you want to change/optimize parameters.



InsightMR Software 1.0.6 Quick Start Guide

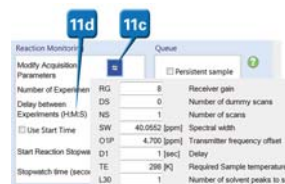
Sample and Experiment Setup

Change Acquisition Parameters

Click on the blue equal icon [11c] to change experiment parameters such as number of scans, gain, temperature, pre saturation frequency. More parameters can be added through IconNMR configuration.

Change Delay between Experiments

Type or scroll to desired delay time [11d].



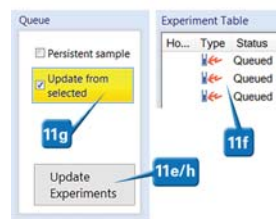
Sample and Experiment Setup

Update Parameter Changes

Click on *Update Experiments* [11e] to update the changes made to all experiments following the current acquisition.

Update Changes from a User Selected Experiment

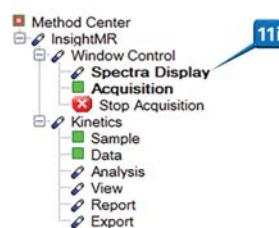
Select the experiment where you want to update changes from [11f] and check *Update from selected* [11g] and then *Update Experiments* [11h].



Data Processing and Analysis

Return Back to Spectra Display

Click on *Spectra Display* [11i] to go to the analysis window.



Data Processing and Analysis

Phase Spectra

If spectra need phasing, right click on the spectra and select *0* or *1* for zero and first order phase correction. *R* to reset [12]. *S* enables to swap from automatic phase update in all spectra (default) to re-phasing only done in current spectrum [13].

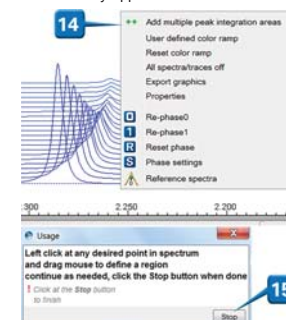


Data Processing and Analysis

Integration

Right click on the spectra and select *Add multiple peak integration areas* [14]. Click and drag to define the desired integral regions. Click on *Stop* [15] (pop up message) when you have finished.

Profiles for each integral region will automatically appear.



InsightMR

Learn More

- Software download and license request: <https://www.bruker.com/service/service-units/nmr.html>
- Webpage: <http://www.bruker.com/InsightMR>
- Acquisition Control: IconNMR Automation Interface manual
- Data Processing: Dynamics Center Manual
- Kinetics video tutorials
- Kinetics tutorial

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