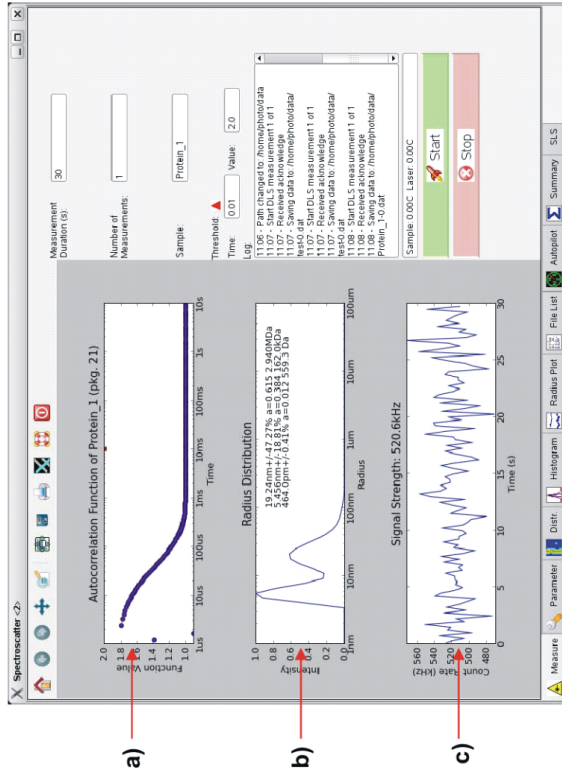


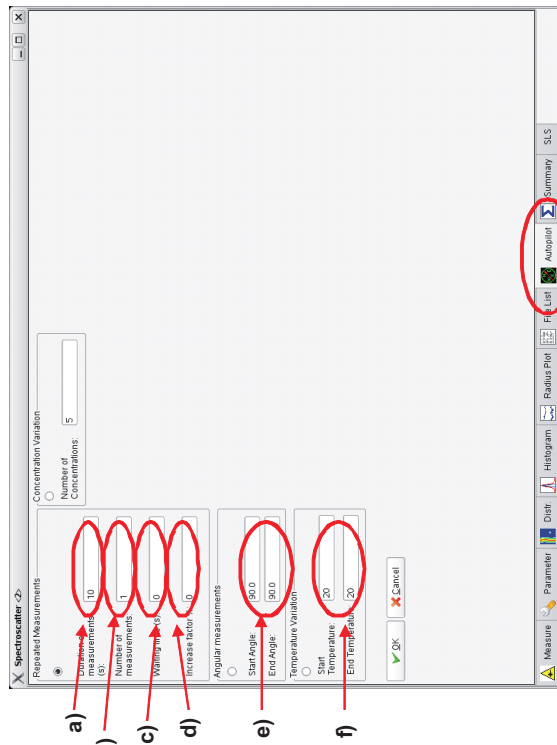


- for measurements with the autopilot function press the AUTOPILOT button in the MENU BAR. The Autopilot sub-menu opens:

Measurement



g)



- a) Autocorrelation function (ACF) shows the time dependence of the intensity fluctuations
- b) CONTIN analysis of the ACF gives the radius distribution of the sample. Narrow peaks indicate that only one particle size is present. Broad peaks show that there is a mixture of particles of similar sizes in the sample. To appear as separate peaks, particle size must be at least a factor of about 3 apart. Also shown: Calculated values for molecular weight of the particles.
- c) Shows the count rate (number of photons registered by the detector) in kHz. Usually count rates between 10 and 1000 Khz are desired. The variation of the count rate within one measurement should not be too large to get meaningful results.

- a) Duration of measurements: usually a value between 10 and 60 seconds
- b) Number of measurements
- c) Waiting time: During long term measurements it is not needed to measure DLS all the time. By setting a waiting time between two measurements you can reduce data during long period measurements.
- d) Increase-factor: if you want to increase or decrease the waiting time within a set of measurements
- e) Angle: If you want to measure at different angles you can change the default settings (90/90)
- f) Temperature: For a temperature gradient use a start temperature different from the end temperature. Default = 20 C/20 C
- g) Autopilot button in menu bar