Test protocol

15N sensitivity in organic solvent

Use sample 5 - 90% formamide in DMSO-d6 at 20°C, non-spinning

Pulse sequence: relaxation delay -single hard pulse – acquisition

Acquisition parameters

Transmitter frequency: 112 ppm

Spectral width: 20 ppm

Number of points in FID: 32k (real)

Number of scans: 1

Number of dummy scans: 0

Relaxation delay: 60 s

Receiver gain: optimize

Processing parameters

Window function: exponential, line broadening 0.3 Hz, i.e. exp(-0.3 π t)

Number of points in spectrum: 32k (real)

Phase correction: automatic or manual, adjust signals to pure absorption

Base line correction: yes

Evaluation

Evaluate signal-to-noise ratio for the signal between 111 and 113 ppm, choose best 2 ppm noise area. Use the formula



Where *Imax* is the maximal signal intensity and *npp* is the peak-to-peak value in the noise region.