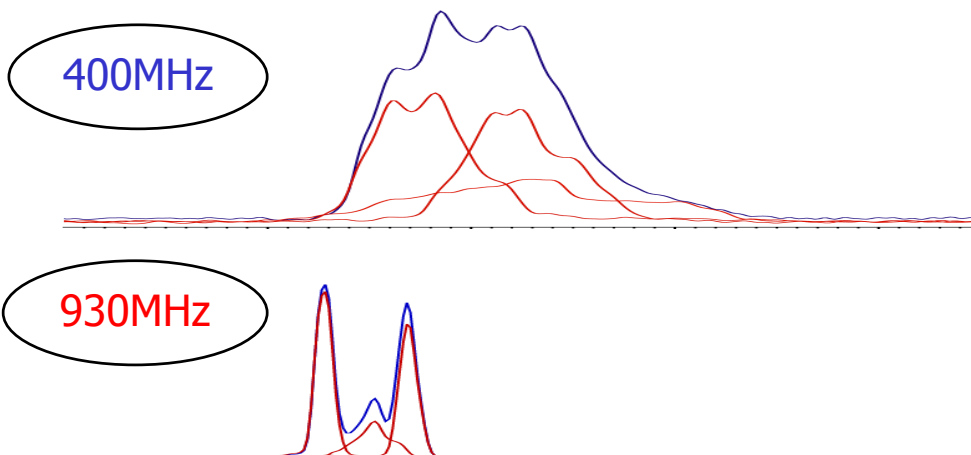
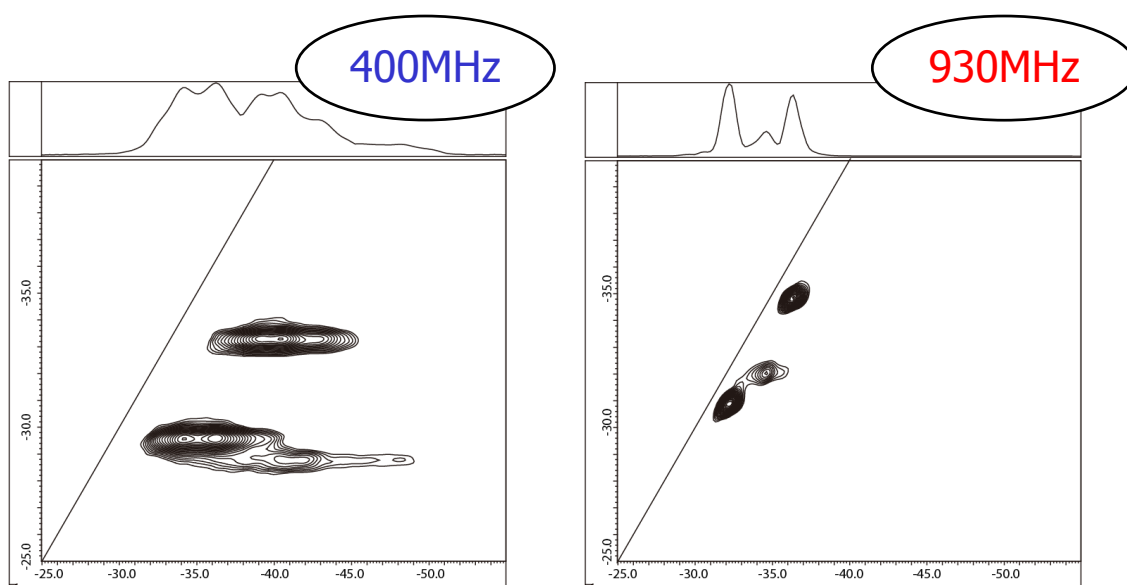


Effectiveness of high-field MQMAS

In solid-state NMR for inorganic materials where quadrupolar interactions dominate linewidths and lineshapes, high magnetic fields dramatically enhance resolution and sensitivity since the second-order quadrupolar broadenings are inversely proportional to the magnetic fields.



High magnetic fields also enhance resolution and sensitivity of MQMAS spectra, and so they are preferable for MQMAS measurements.



Sample: RbNO_3
Spectrometer: JNM-ECA400, ECA930