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Requested Dates: Saturday November 26th to Tuesday November 29th
Requested Equipment: 3.2mm probe, HFC platform, spinning speed 8kHz

Sample Information:
mixture of b-sitosterol dimers (MW ca. 650-850Da), melting point from 60.5C to 112.3C.
Non-toxic.

Research Proposal:

- First day: setting up the CP experiment / measuring the powers. Linear CP with CW or TPPM decoupling of proton, setting Hahn echo: tau1 array,
Second day: Hahn echo experiment
Third and fourth day:
- further development of experiments if results not satisfactory

Previous Work:

The same sample:

MAS speeds=8kHz, Ramp CP linear, d1=4 sec, pwx=5, tpwr=60, tpwr=1200, pw=3.8, dpwr=63, dpwr=4000, crossp=3800, cntct=1000ms. Decoupling of proton CW or TPPM (160deg, pwtpm=6.75) with dilopr=4000. AQ=20ms. Hahn echo: pwx_e=5, tpwr=2200, tau1=5 to 300us.

Supporting Files for Previous Work:

Relevant Literature References:

A ¹³C solid-state NMR analysis of steroid compounds. Yang JH, Ho Y, Tzou DL., Magn Reson Chem. 2008 Aug;46(8):718-25.

A ¹³C solid-state NMR analysis of vitamin D compounds. Mousavi M, Yu SS, Tzou DL., Solid State Nucl Magn Reson. 2009 Sep;36(1):24-31.