

NMR CHECK-OUT

Biospec-7T

1. Log in.
2. Start-up paravision and/or xwinnmr.
3. Probe & sample insertion.

For spectroscopy:

4. Check initial parameters (load file or rpar).
5. Create new data set.
6. Tune probe.
7. Set up to shim on FID.
8. Shim; check linewidth.
9. Calibrate 90 degree pulse.
10. Select proper carrier position and SW.
11. Select all proper parameters for run (block size, rep rate, etc.).
12. Check gains.
13. Collect data.
14. Data process, including apodization, phasing, peak picking, etc.
15. Plot spectrum. Label with peak shifts.

For imaging:

4. Tune probe.
5. Shim by hand and Auto.
6. Calibrate 90 degree pulse power by hand and Auto.
7. Select proper carrier position by hand and Auto
8. Load and compile imaging protocol.
9. Select all proper parameters for run (FOV, TR, TE, etc.).
10. Check and use reference RF Gain
11. Check receiver gain, obtain echo, view projection.
12. Run Experiment via auto and by hand
13. Reconstruct image.

14. Manipulate image contrast; make hard copy.
15. Back-up data via ftp to another computer; delete from disc.
16. Leaving procedure.
17. Log out, user sheet.