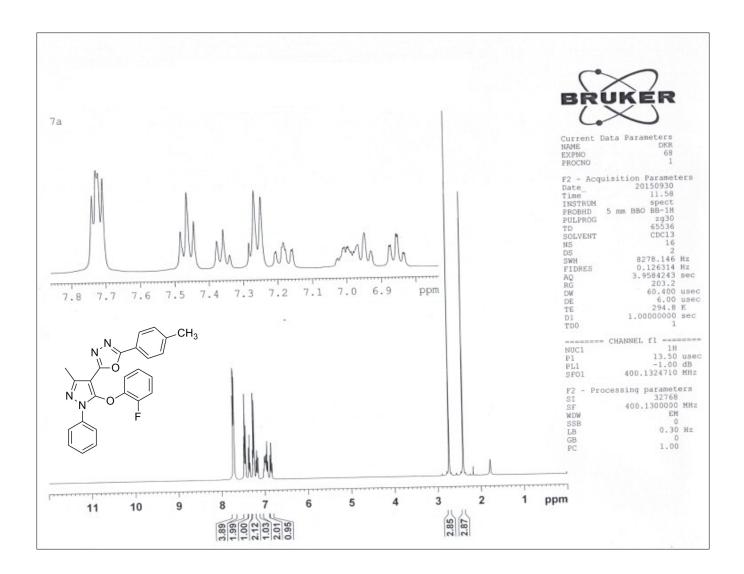
Design, Synthesis and characterization of fluoro substituted novel pyrazole nucleus clubbed with 1,3,4-oxadiazole scaffolds and their biological applications

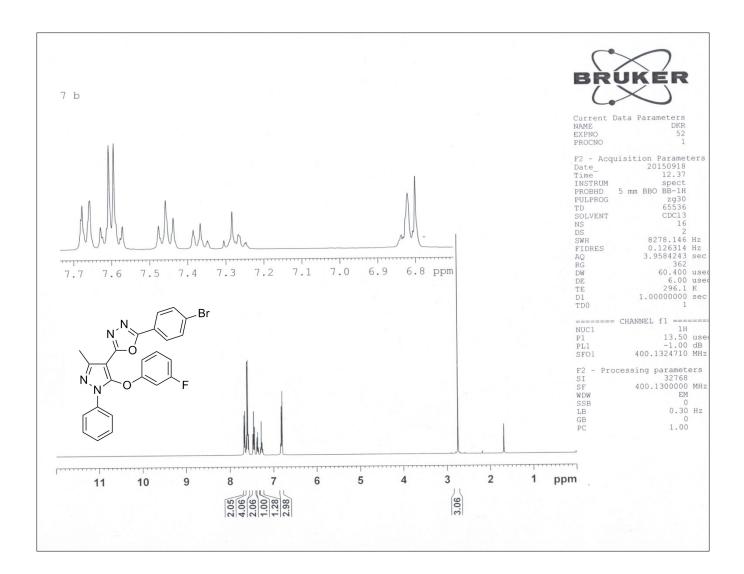
Sharad C. Karad^a, Vishal B. Purohit^a, Jemin R. Avalani,^b Nirav H. Sapariya^a, and Dipak K. Raval^a* ^aDepartment of Chemistry, Sardar Patel University, Vallabh Vidyanagar- 388 120, Gujarat, India ^bShree A. N. Patel P. G. Institute, Anand, 388120, Gujarat, India E-mail: <u>dipanalka@yahoo.com; krdsharad1126@gmail.com</u>.

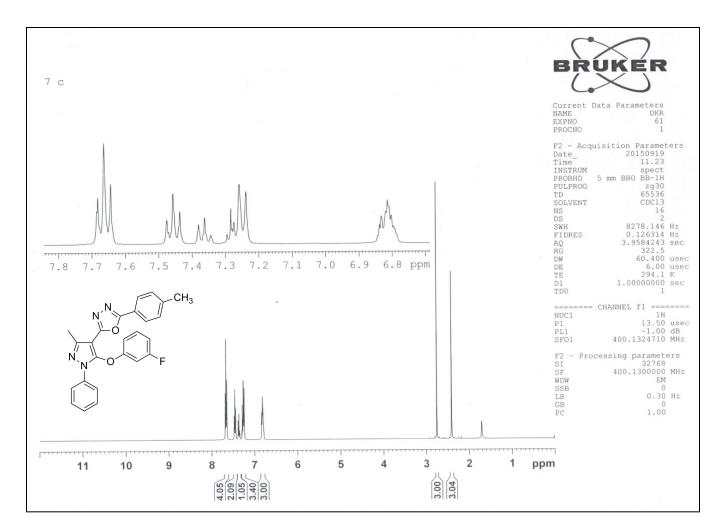
Supplementary Information

¹H NMR spectra of compound **7a**

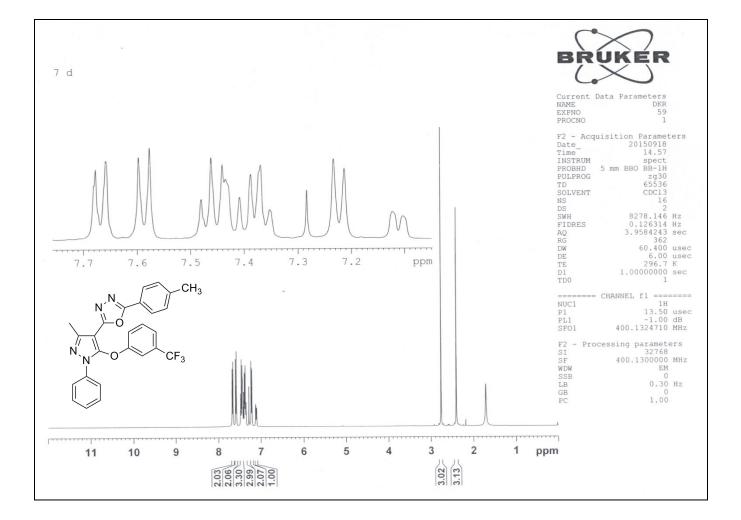


$^1\mathrm{H}$ NMR spectra of compound $\mathbf{7b}$



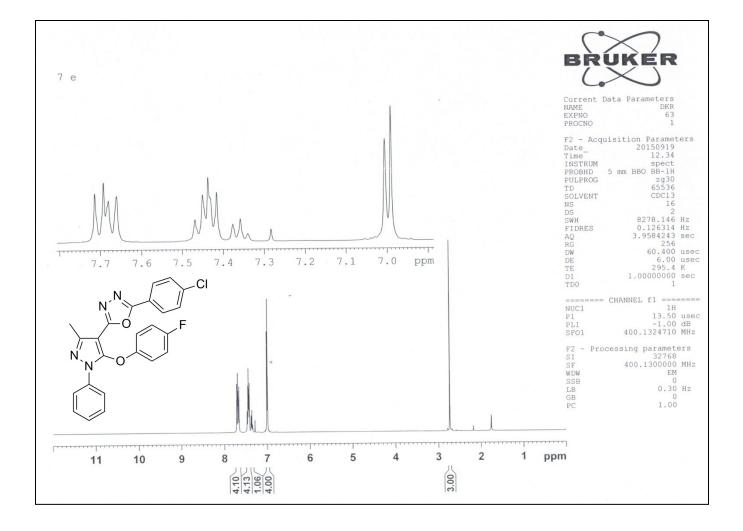


¹H NMR spectra of compound **7**c

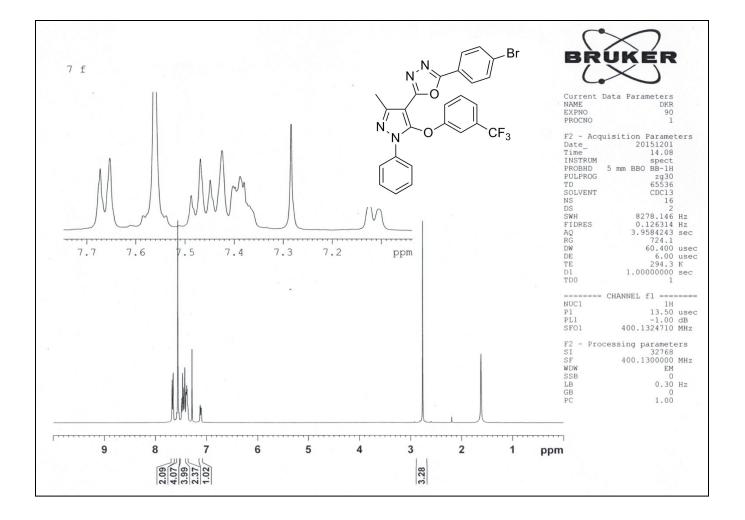


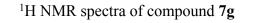
¹H NMR spectra of compound **7d**

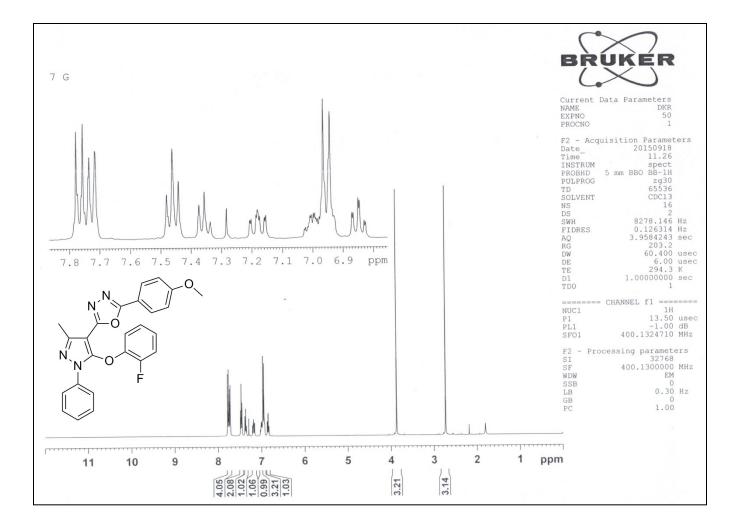
¹H NMR spectra of compound **7e**



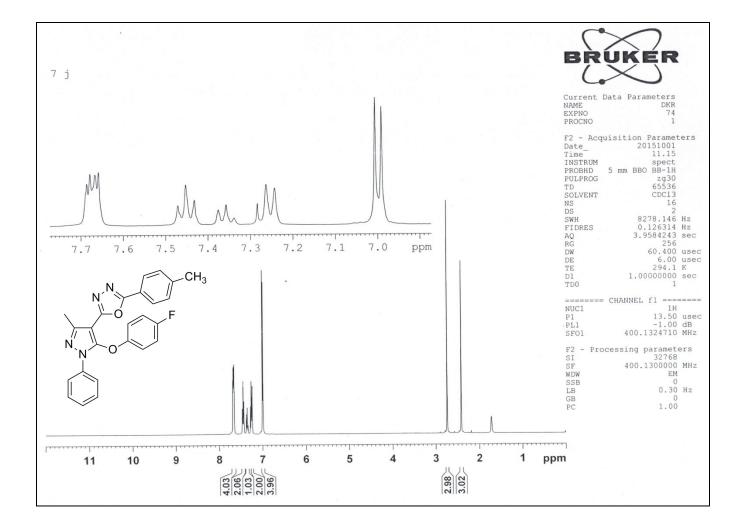
¹H NMR spectra of compound **7f**

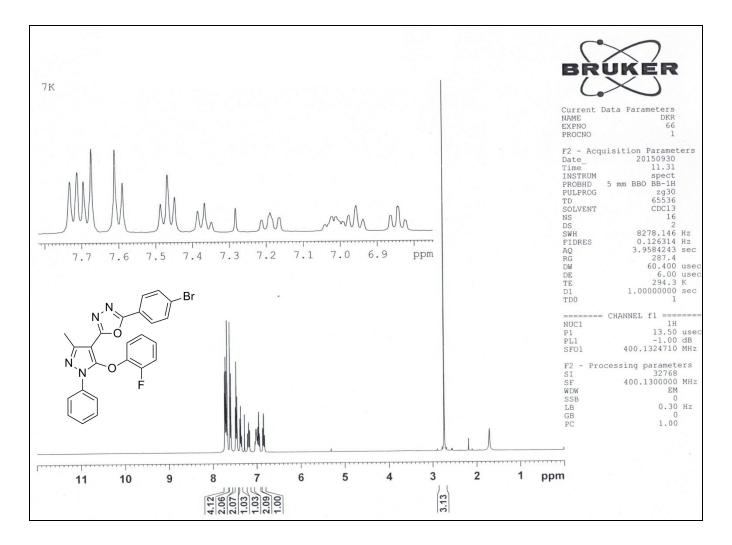






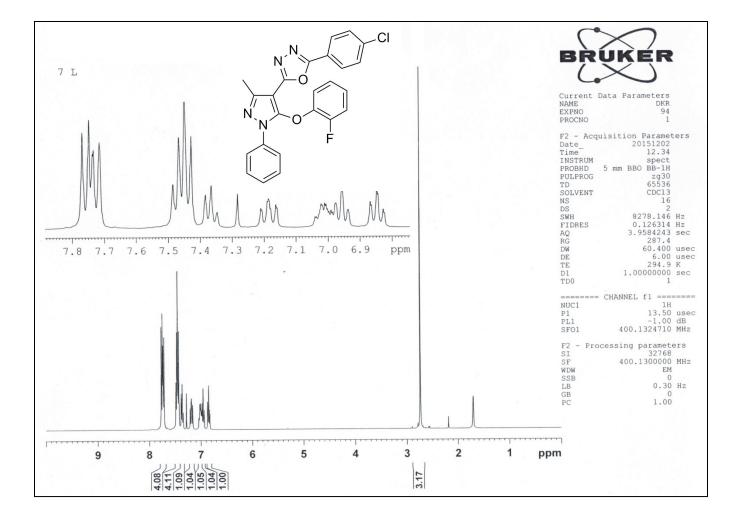
¹H NMR spectra of compound **7**j



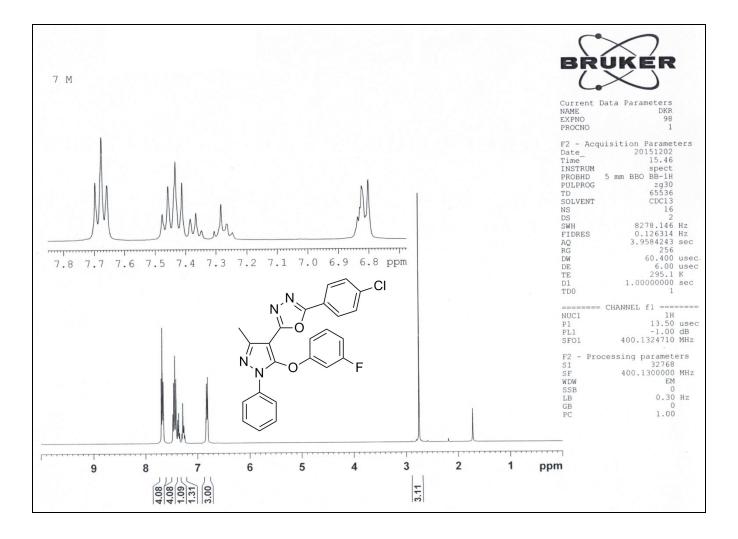


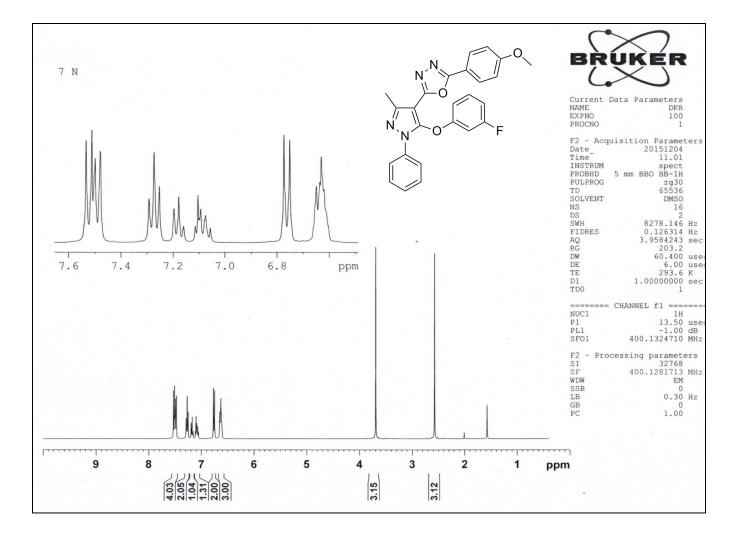
¹H NMR spectra of compound **7**k

¹H NMR spectra of compound **7**I



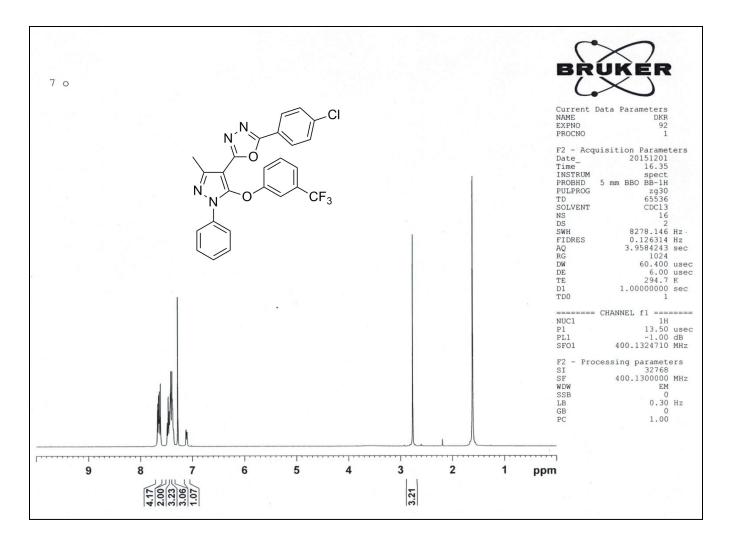
¹H NMR spectra of compound **7m**

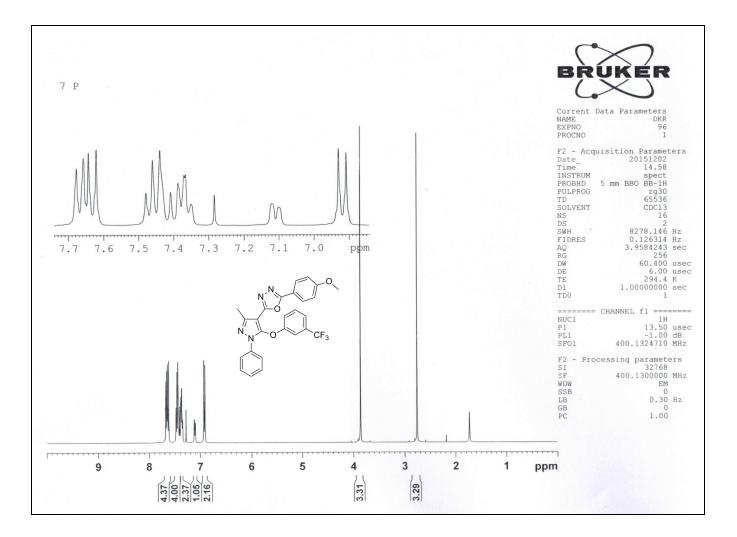




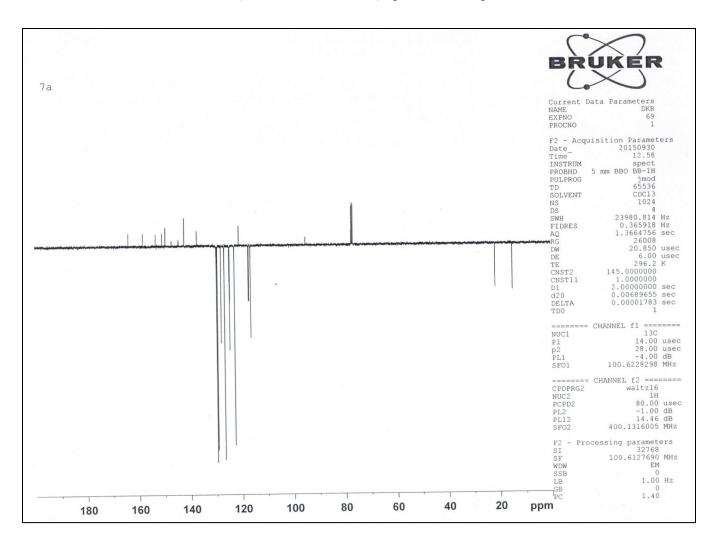
¹H NMR spectra of compound **7n**

¹H NMR spectra of compound **70**

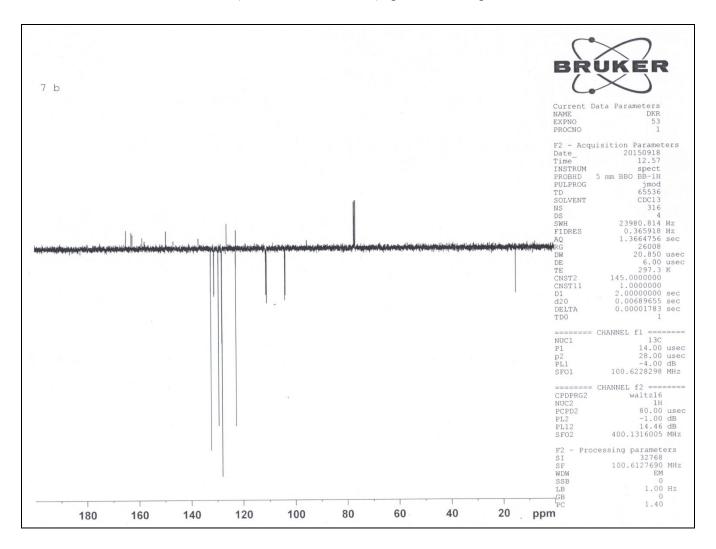




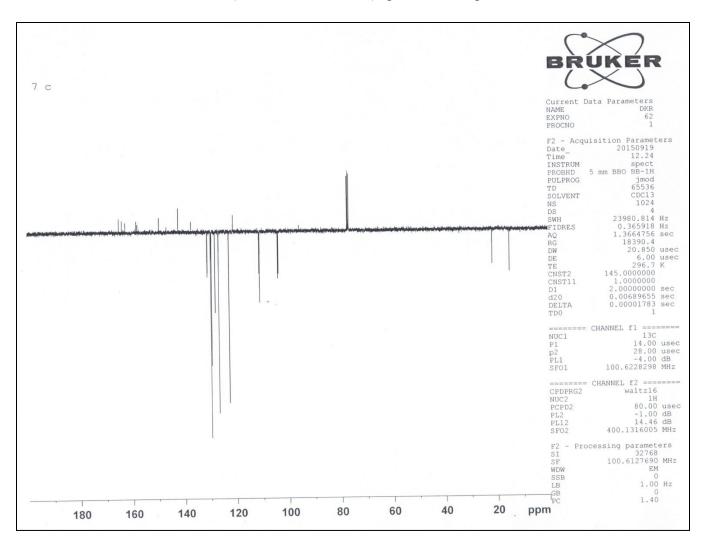
¹H NMR spectra of compound **7p**



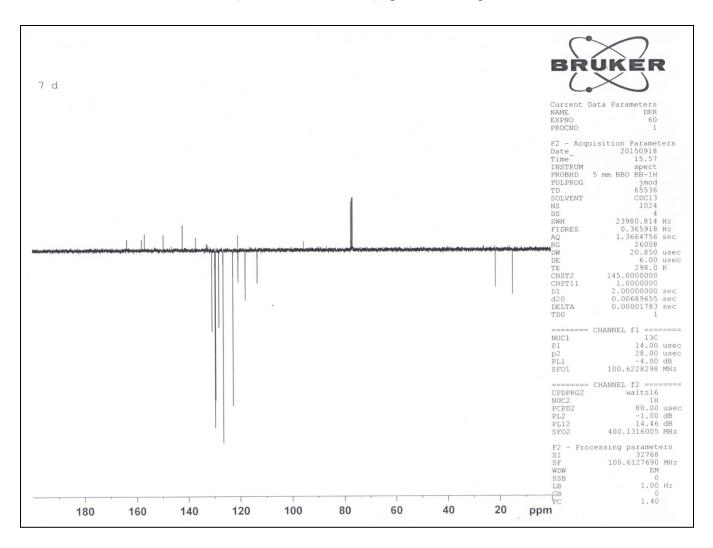
¹³C APT (Attached Proton Test) spectra of compound 7a



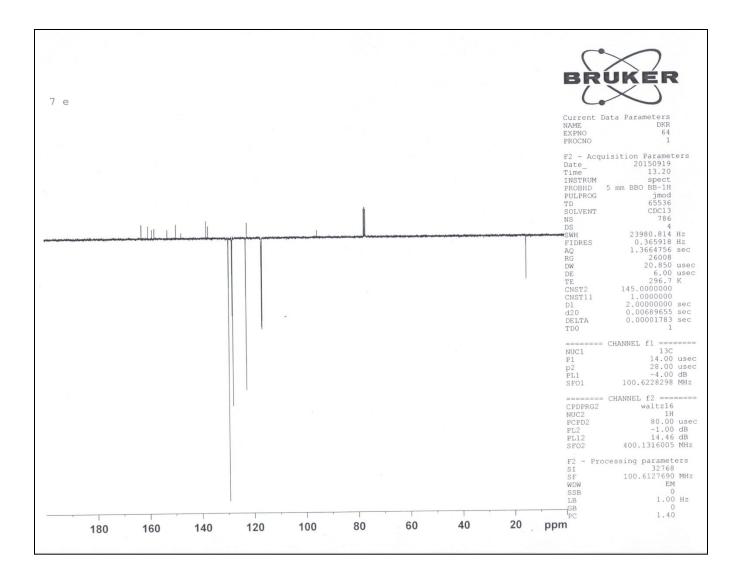
¹³C APT (Attached Proton Test) spectra of compound **7b**



¹³C APT (Attached Proton Test) spectra of compound 7c

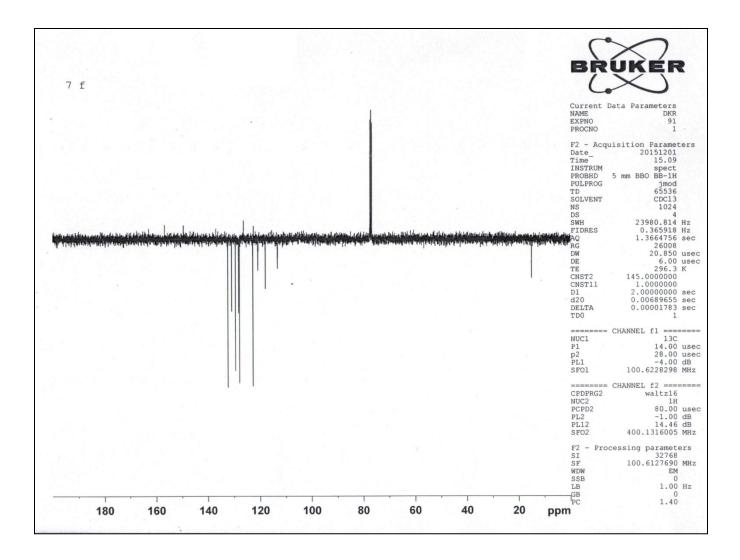


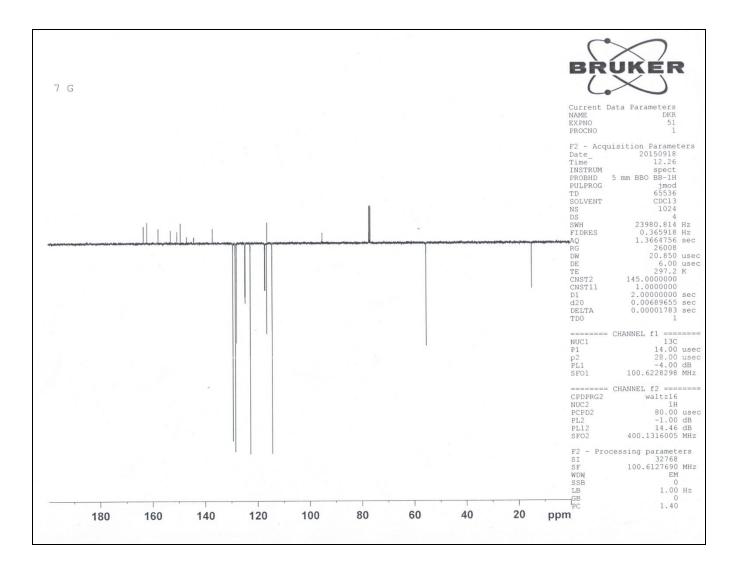
¹³C APT (Attached Proton Test) spectra of compound 7d



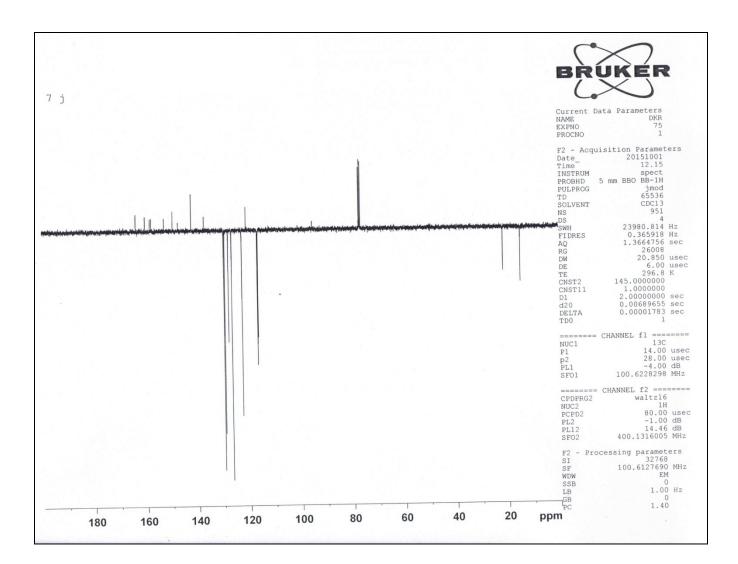
¹³C APT (Attached Proton Test) spectra of compound 7e

¹³C APT (Attached Proton Test) spectra of compound **7f**

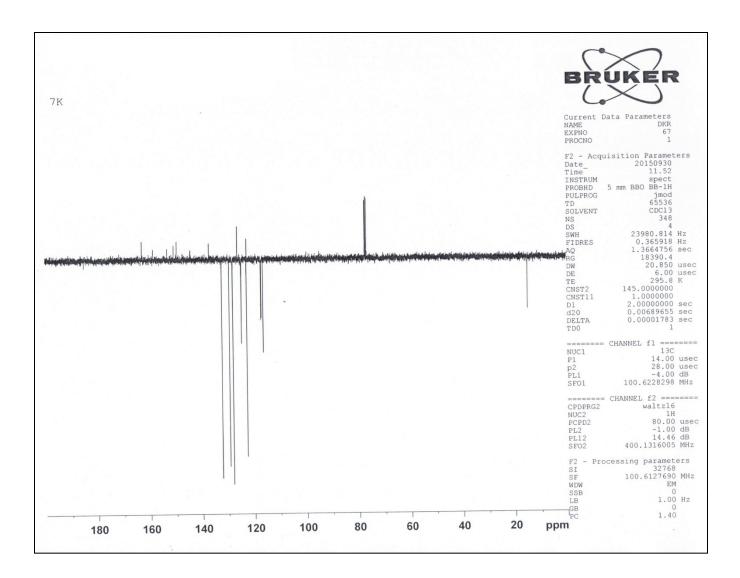




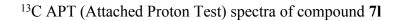
¹³C APT (Attached Proton Test) spectra of compound **7g**

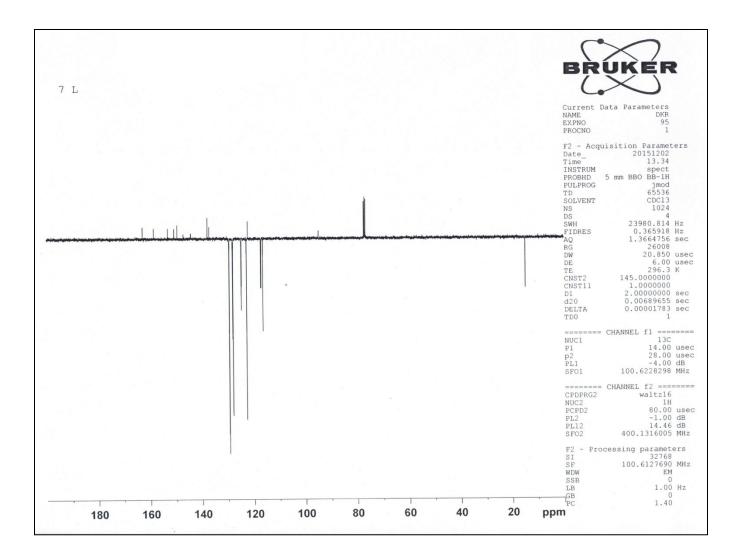


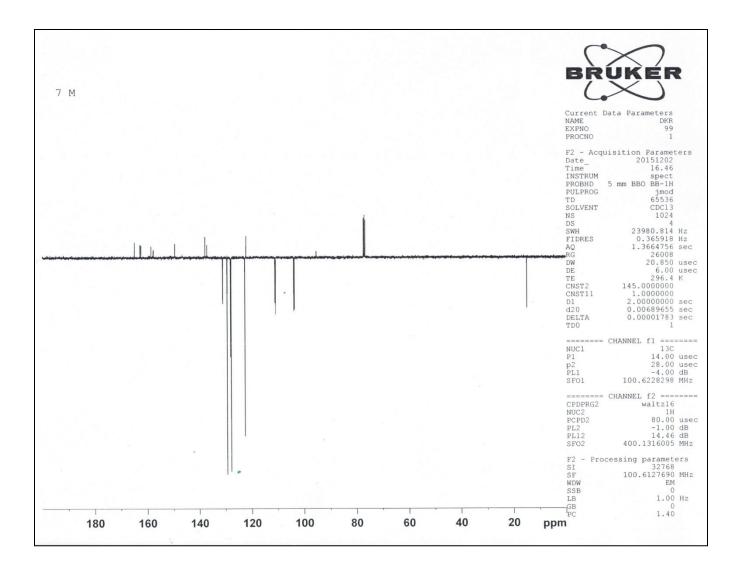
¹³C APT (Attached Proton Test) spectra of compound 7j



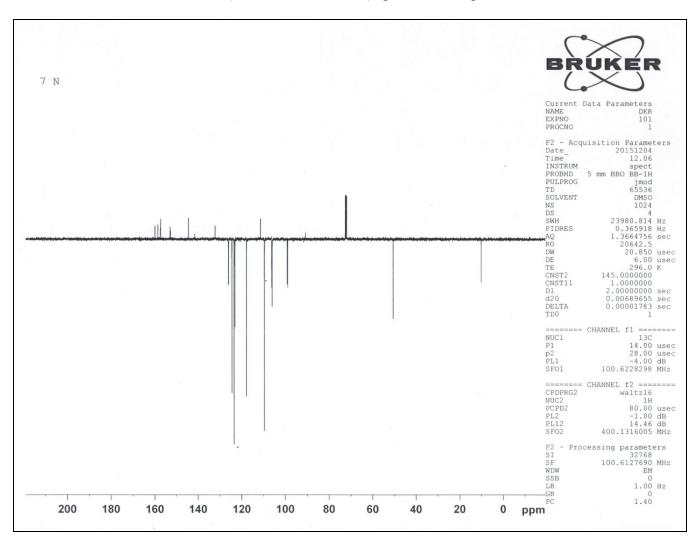
¹³C APT (Attached Proton Test) spectra of compound 7k



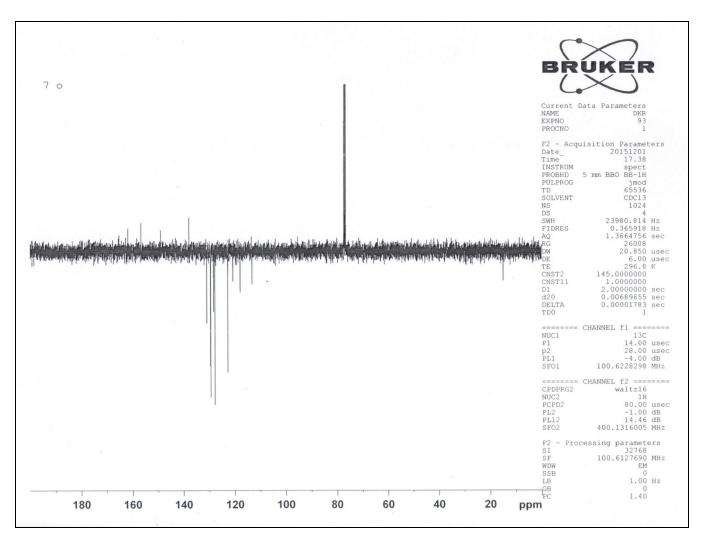




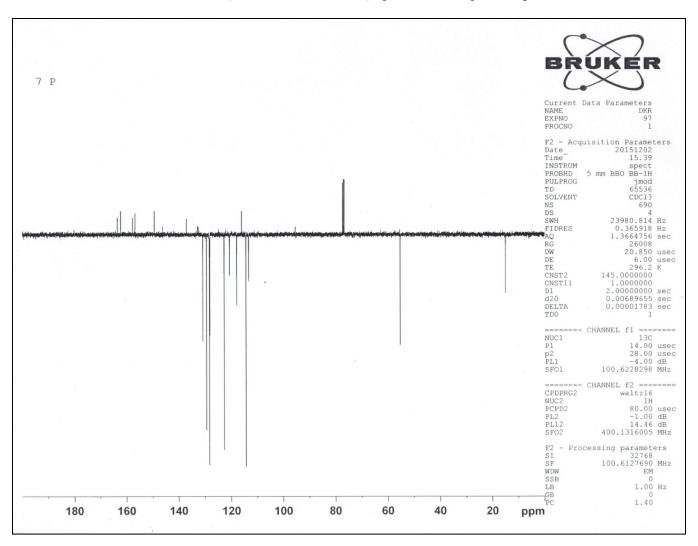
¹³C APT (Attached Proton Test) spectra of compound **7m**



¹³C APT (Attached Proton Test) spectra of compound **7n**

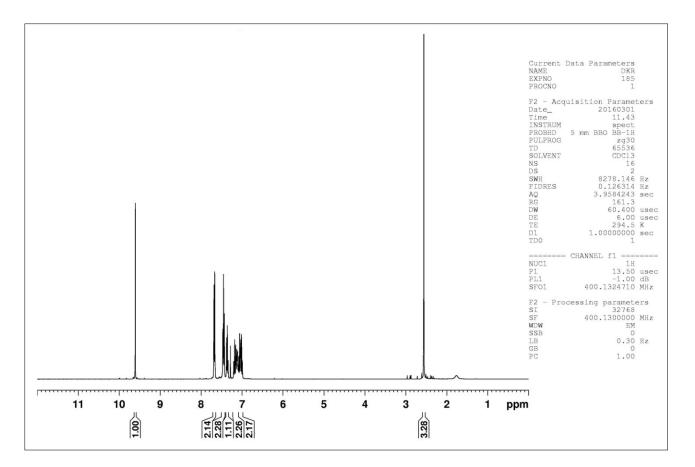


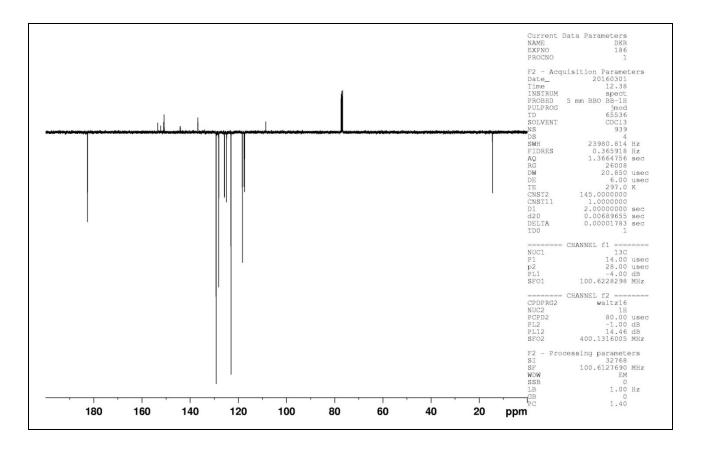
¹³C APT (Attached Proton Test) spectra of compound **70**



¹³C APT (Attached Proton Test) spectra of compound **7p**

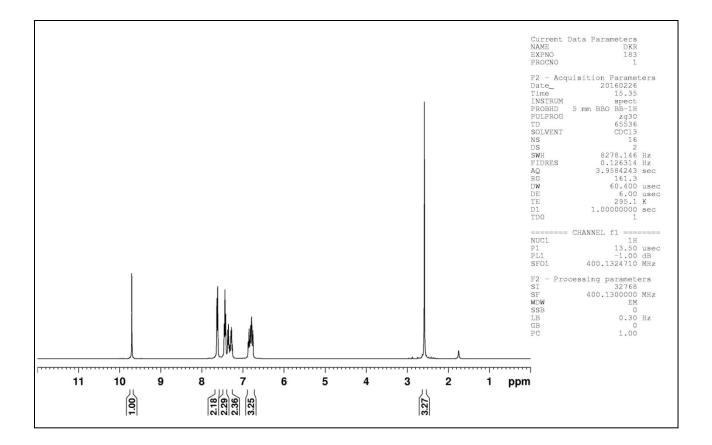
¹H NMR spectra of compound **4a**

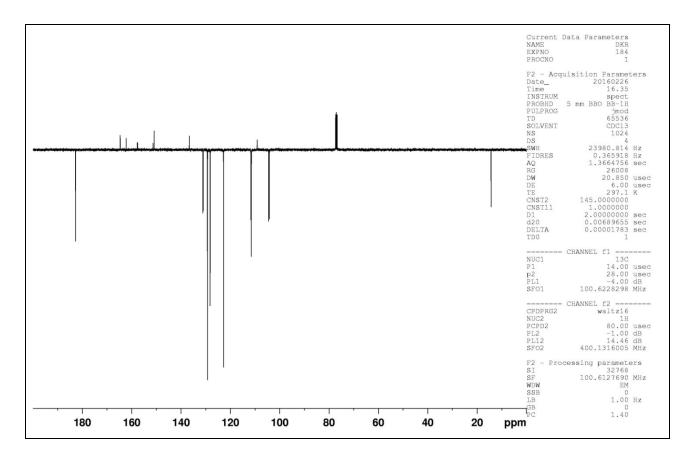




¹³C APT (Attached Proton Test) spectra of compound 4a

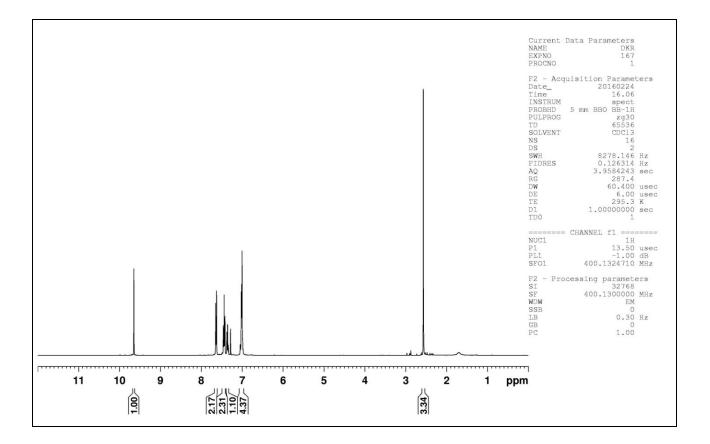
¹H NMR spectra of compound **4b**

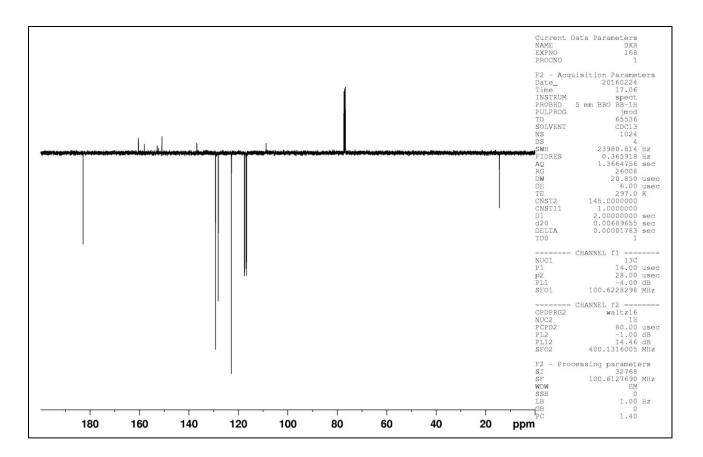




^{13}C APT (Attached Proton Test) spectra of compound 4b

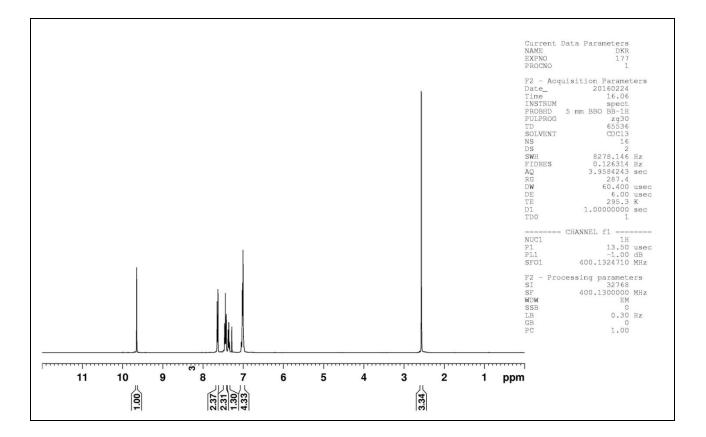
$^1\mathrm{H}$ NMR spectra of compound 4c

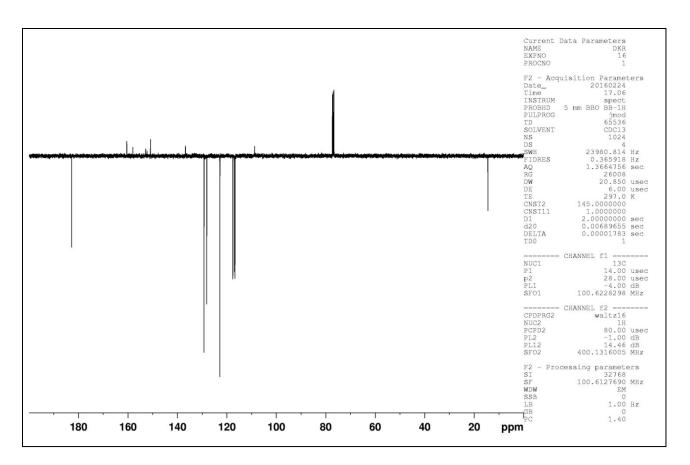




¹³C APT (Attached Proton Test) spectra of compound **4c**

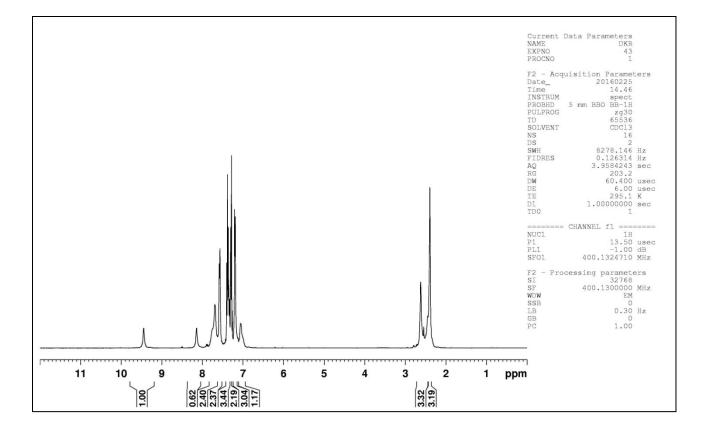
¹H NMR spectra of compound **4d**

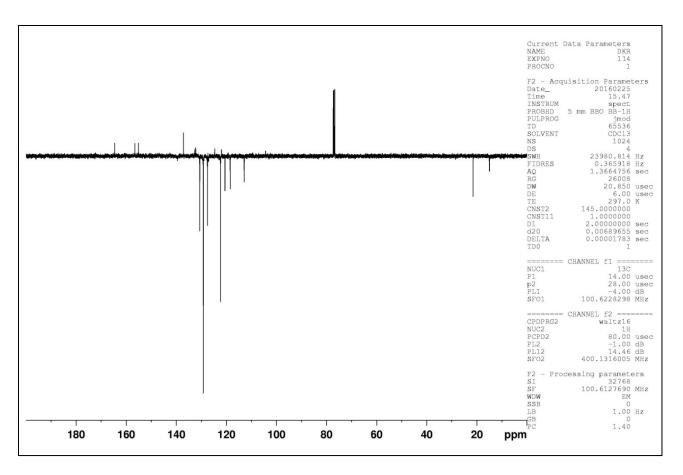




¹³C APT (Attached Proton Test) spectra of compound **4d**

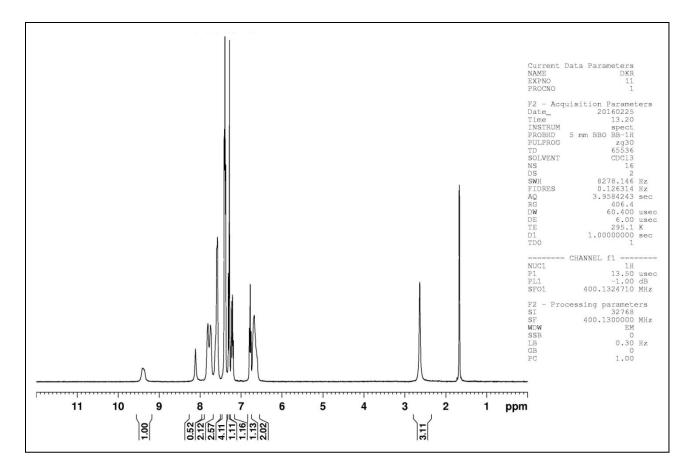
¹H NMR spectra of compound **6a**

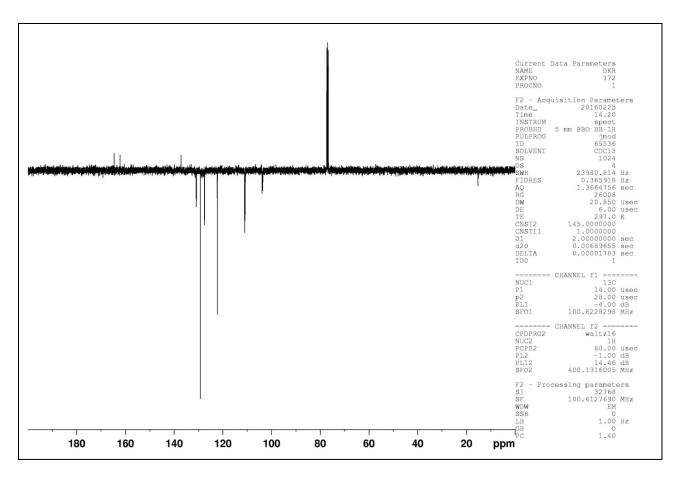




¹³C APT (Attached Proton Test) spectra of compound **6a**

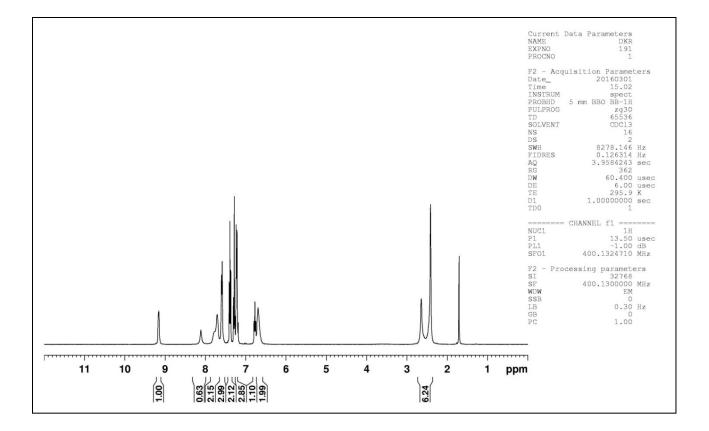
¹H NMR spectra of compound **6b**

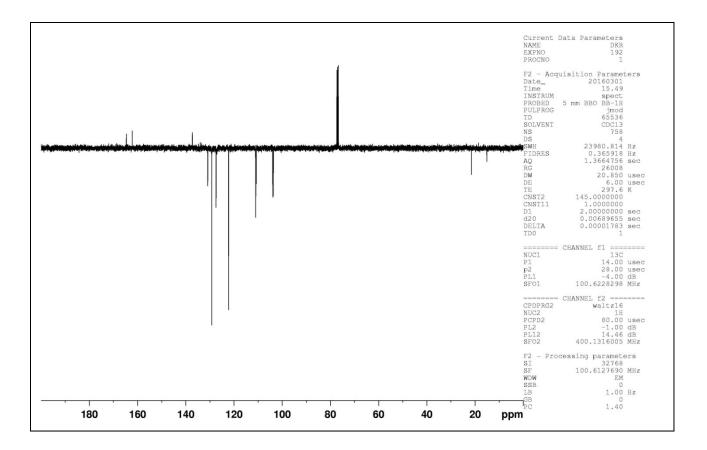




¹³C APT (Attached Proton Test) spectra of compound **6b**

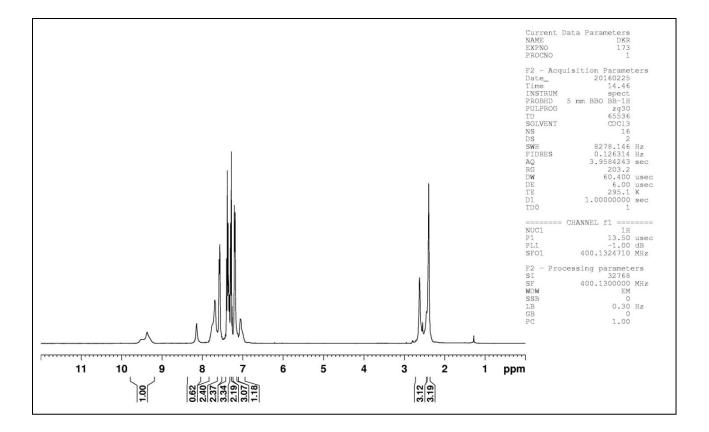
$^1\mathrm{H}$ NMR spectra of compound $\mathbf{6c}$

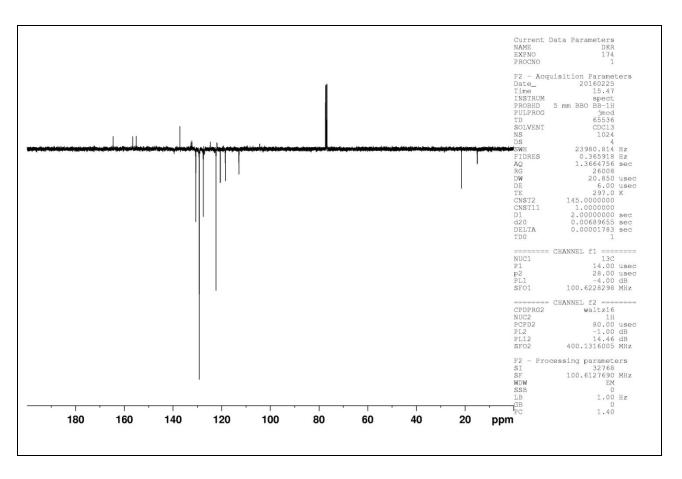




¹³C APT (Attached Proton Test) spectra of compound 6c

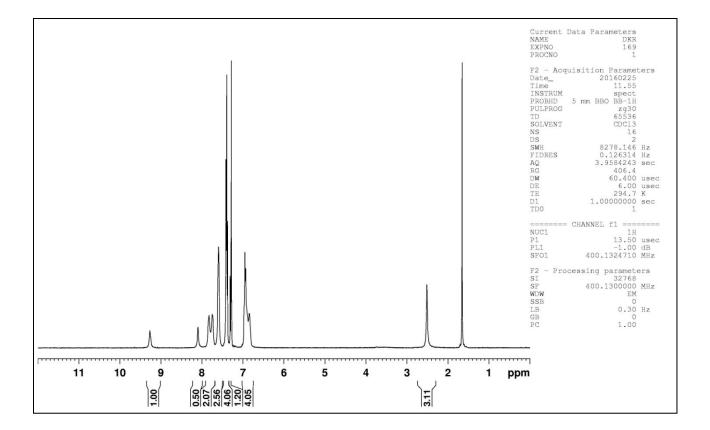
¹H NMR spectra of compound **6d**

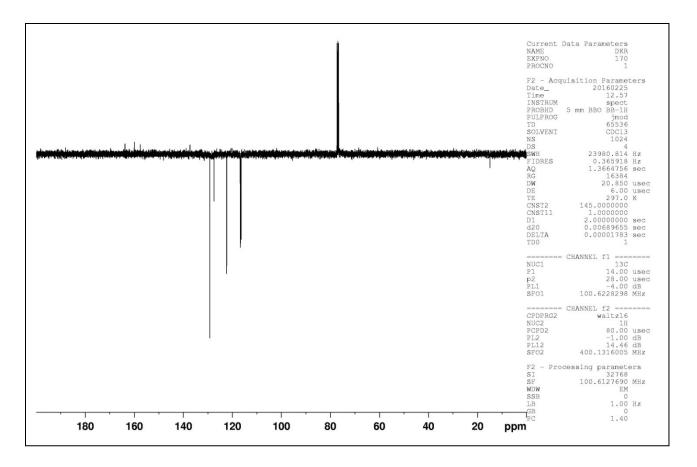




¹³C APT (Attached Proton Test) spectra of compound 6d

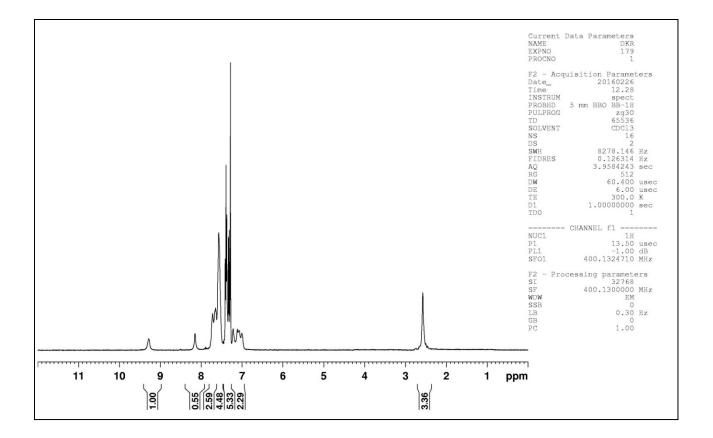
¹H NMR spectra of compound **6e**

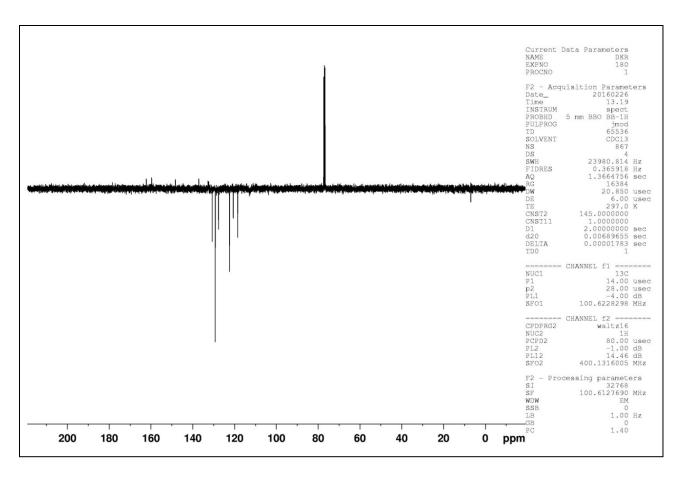




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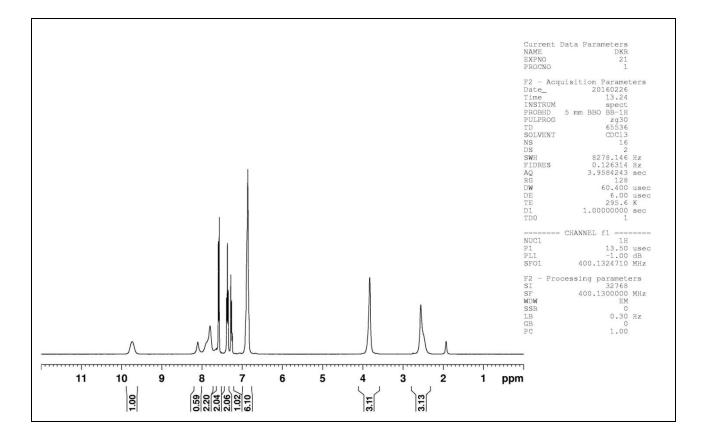
$^1\mathrm{H}$ NMR spectra of compound $\mathbf{6f}$

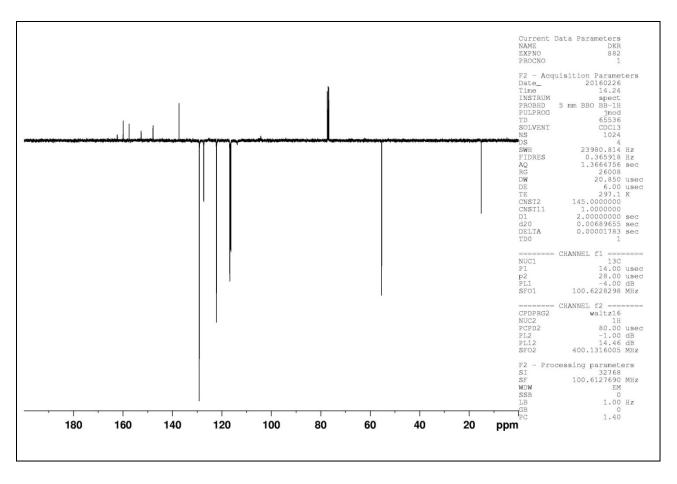




¹³C APT (Attached Proton Test) spectra of compound 6f

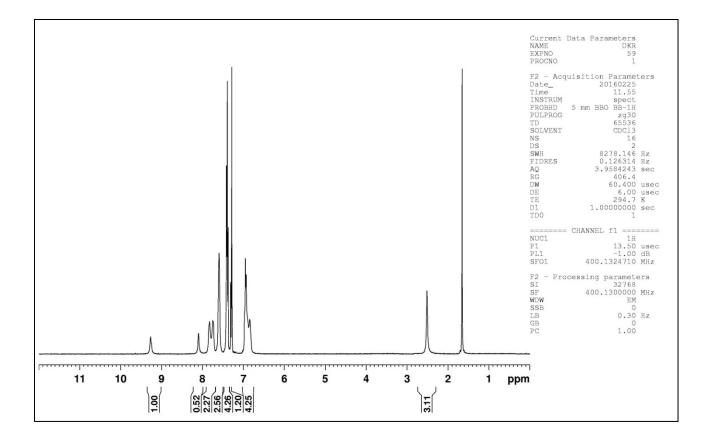
¹H NMR spectra of compound **6g**

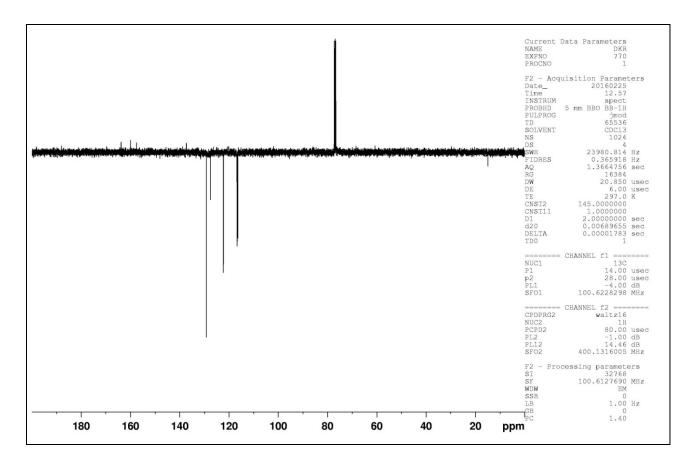




¹³C APT (Attached Proton Test) spectra of compound **6g**

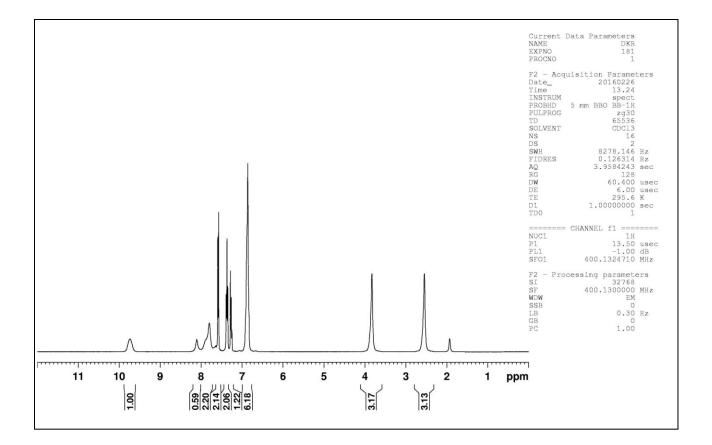
 $^1\mathrm{H}$ NMR spectra of compound $\mathbf{6h}$

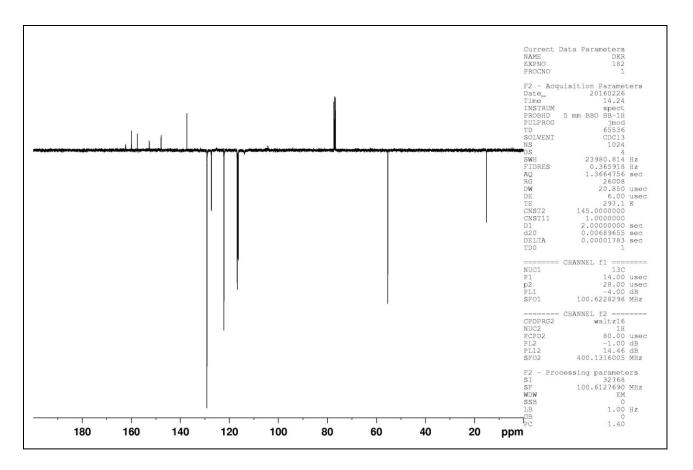




¹³C APT (Attached Proton Test) spectra of compound **6h**

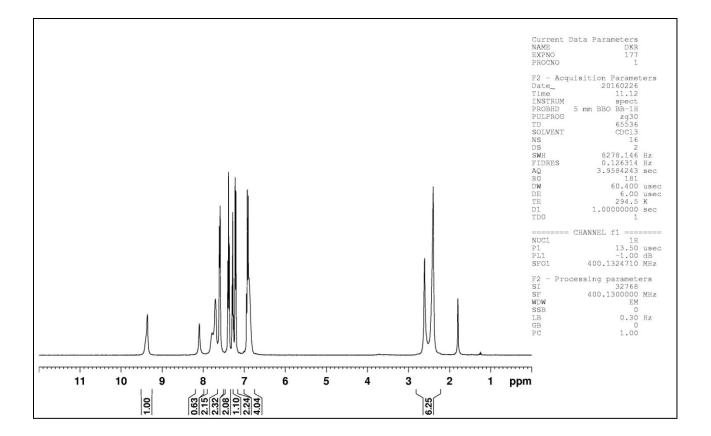
¹H NMR spectra of compound 6i

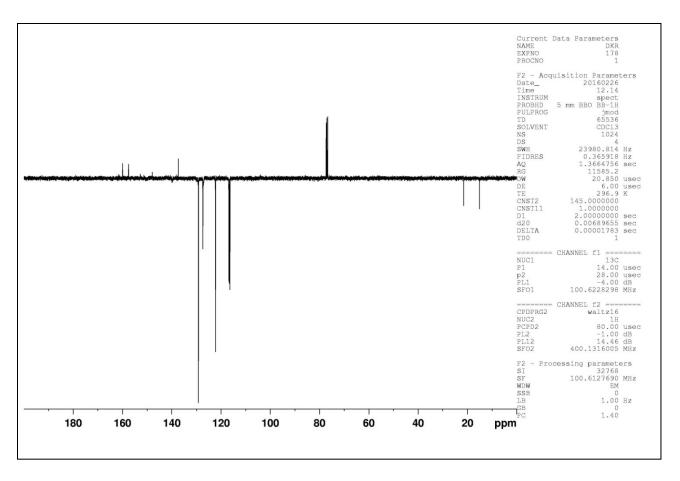




¹³C APT (Attached Proton Test) spectra of compound **6i**

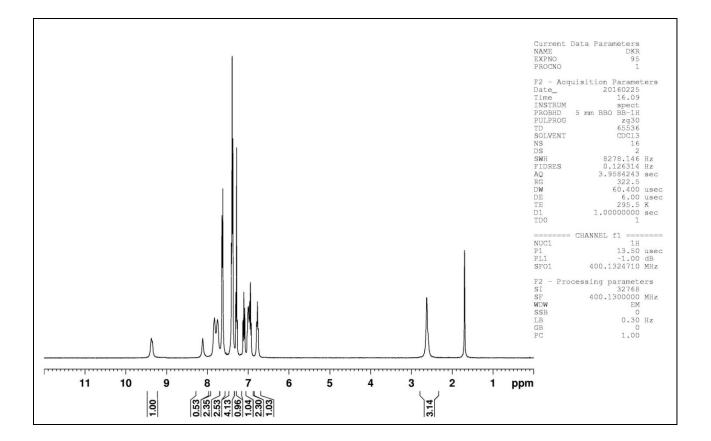
¹H NMR spectra of compound 6j

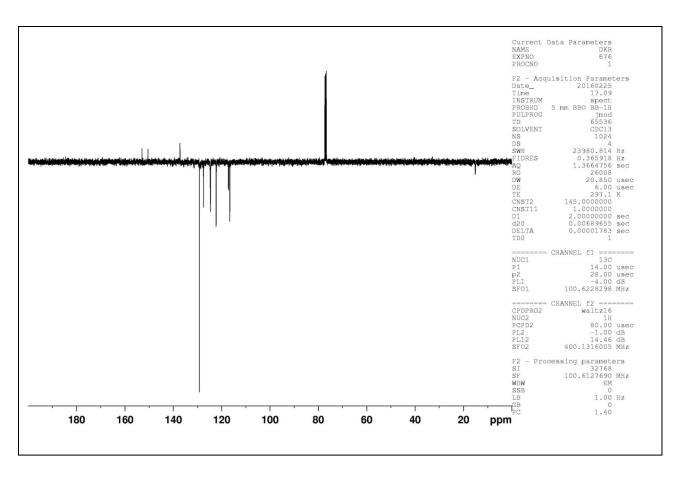




¹³C APT (Attached Proton Test) spectra of compound 6j

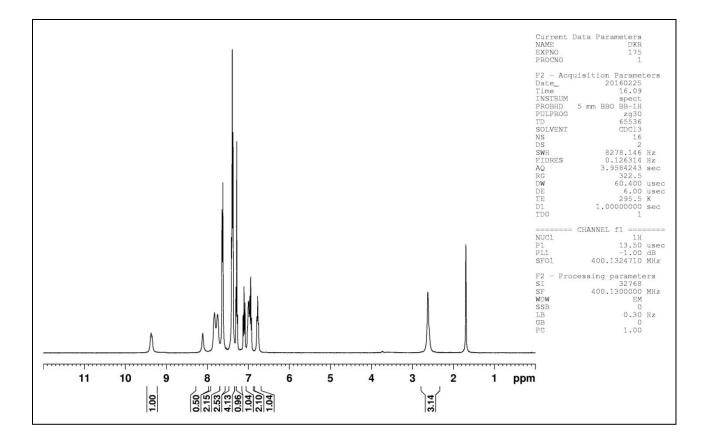
¹H NMR spectra of compound **6**k

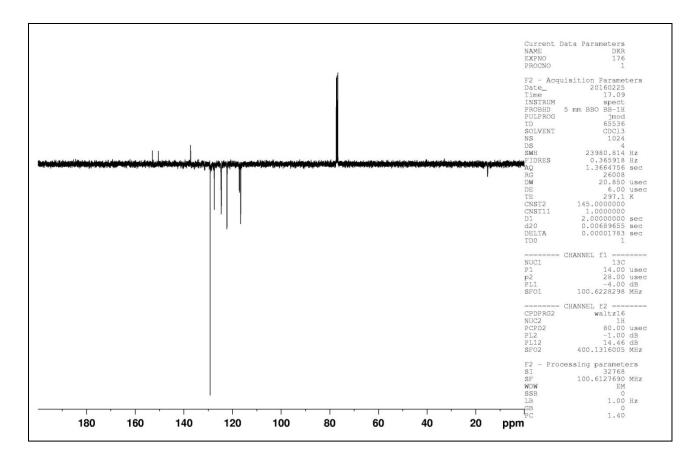




¹³C APT (Attached Proton Test) spectra of compound **6k**

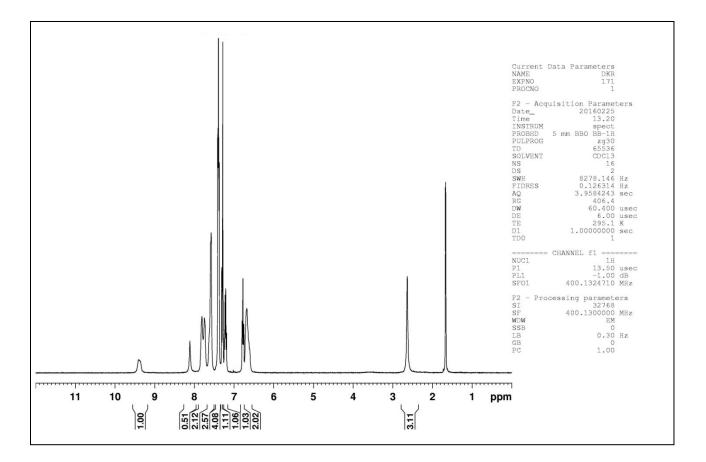
¹H NMR spectra of compound **6**l

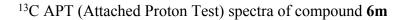


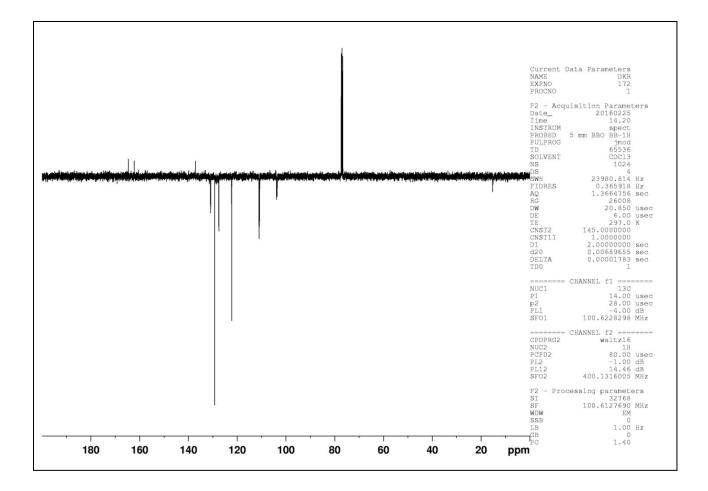


¹³C APT (Attached Proton Test) spectra of compound **6**l

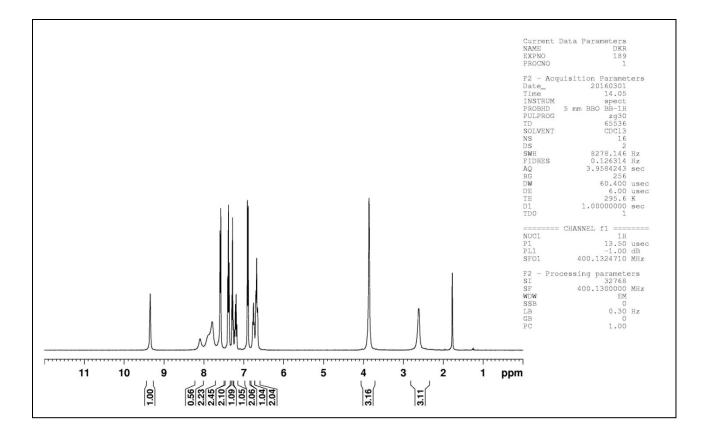
¹H NMR spectra of compound **6m**

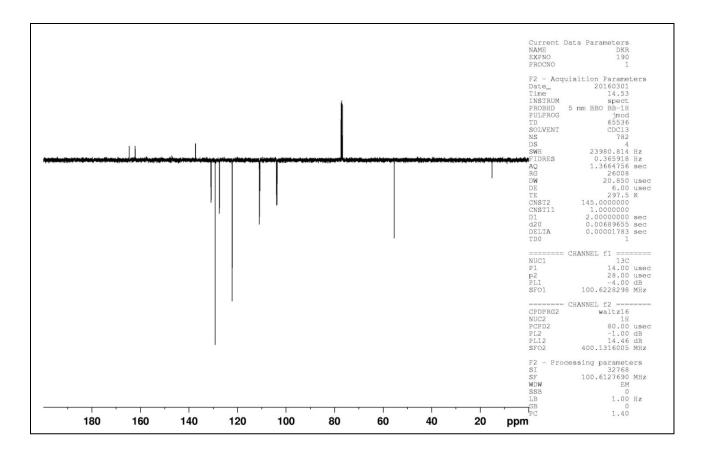






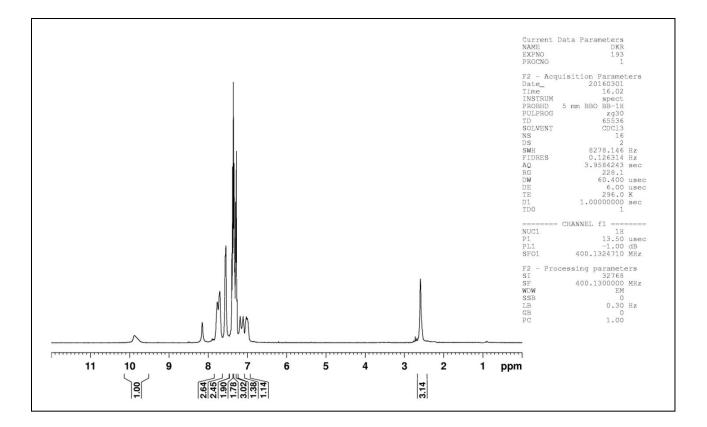
¹H NMR spectra of compound **6n**

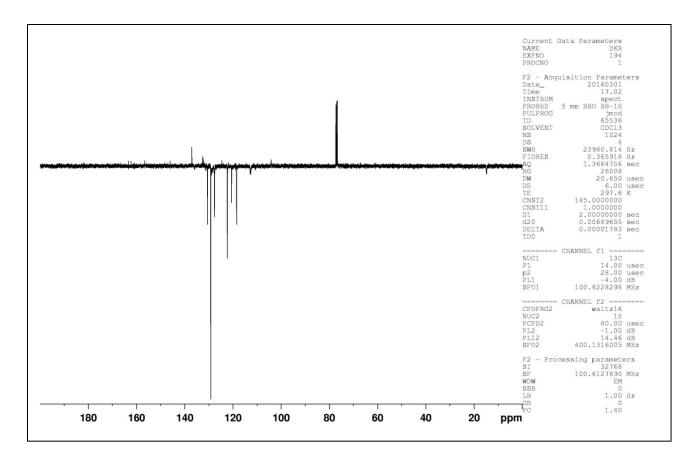




¹³C APT (Attached Proton Test) spectra of compound **6n**

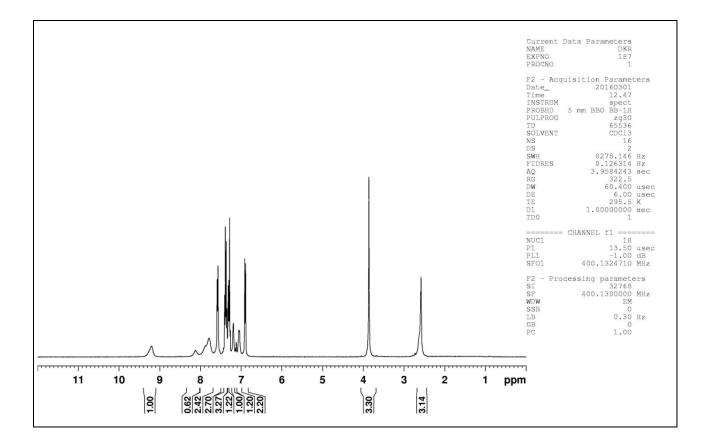
¹H NMR spectra of compound **60**

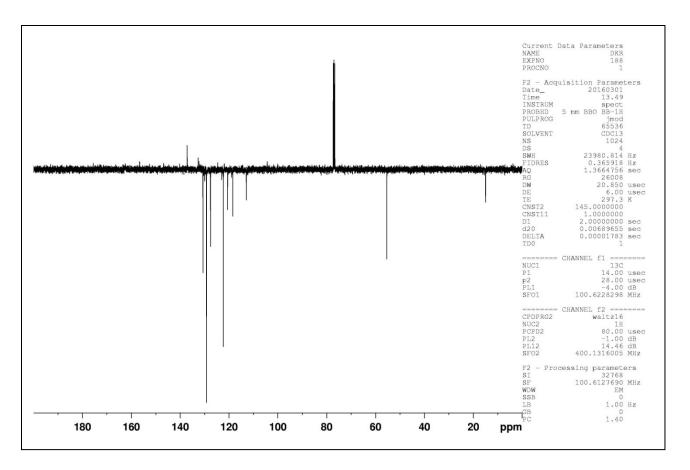




¹³C APT (Attached Proton Test) spectra of compound **60**

¹H NMR spectra of compound **6p**





^{13}C APT (Attached Proton Test) spectra of compound $\mathbf{6p}$