Supplementary Materials

IR spectra of compounds **3a–l** ¹H-NMR and ¹³C-NMR of compounds **3a–l** ¹⁹F-NMR of compound **3d** HRMS of compounds **3a–l**

IR spectra of compounds 3a-l

IR spectra of compounds 3a



IR spectra of compounds 3b





IR spectra of compounds 3d



IR spectra of compounds 3c











IR spectra of compounds 3h







IR spectra of compounds 3j







¹H-NMR and ¹³C-NMR of compounds **3a–3l**

¹H-NMR and ¹³C-NMR of compounds **3a**





¹H-NMR and ¹³C-NMR of compounds **3b**



$^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ of compounds 3c



¹H-NMR and ¹³C-NMR of compounds **3d**







¹H-NMR and ¹³C-NMR of compounds **3f**















¹⁹F-NMR of compounds **3d**



HRMS of compounds 3a-3l

HRMS of compounds 3a





HRMS of compounds **3b**

HRMS of compounds 3c





HRMS of compounds 3d

HRMS of compounds 3e





HRMS of compounds 3f

HRMS of compounds 3g





HRMS of compounds 3h

HRMS of compounds 3i





HRMS of compounds 3j





HRMS of compounds 31

