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Supplementary Material

Improved Access to Linear Tetrameric Hydroxamic Acids with Potential as Radiochemical Ligands for Zirconium(IV)-89 PET Imaging

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Improved Access to Linear Tetrameric Hydroxamic Acids with Potential as Radiochemical Ligands for Zirconium(IV)-89 PET Imaging

Electronic Supplementary Material

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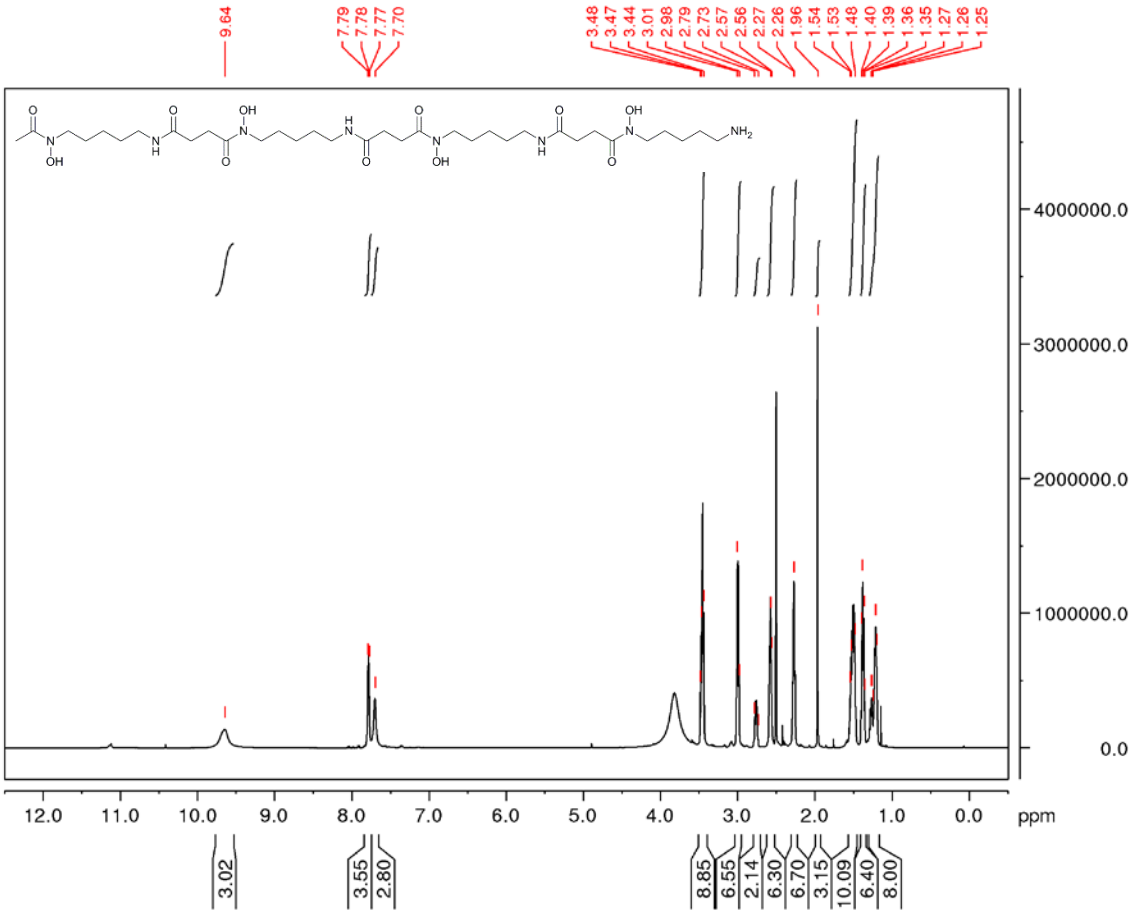


Figure S1a. ^{1}H NMR spectrum (600 MHz, DMSO-d_6) for DFOB-PBH (**2**).

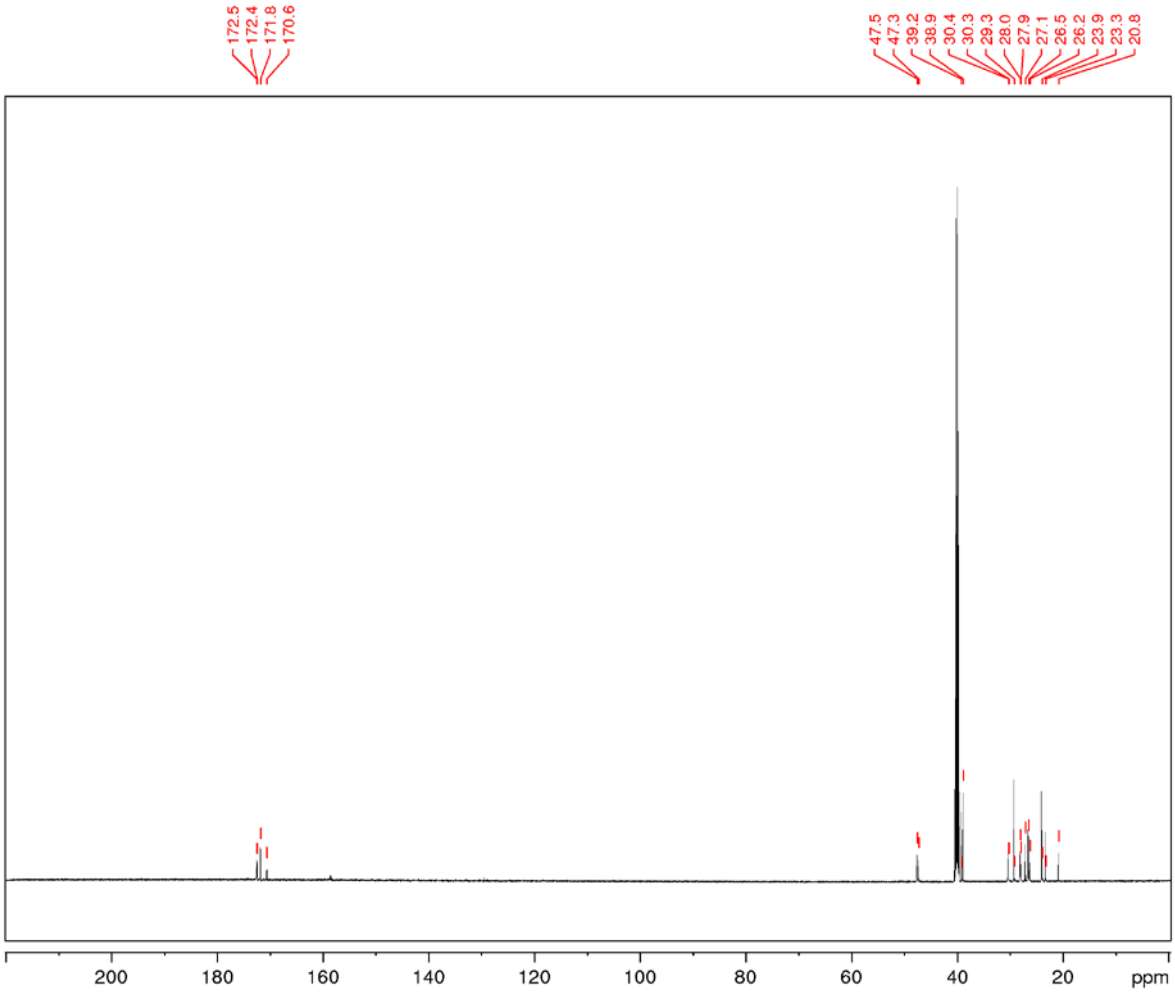


Figure S1b. ^{13}C NMR spectrum (150 MHz, DMSO-d_6) for DFOB-PBH (**2**).

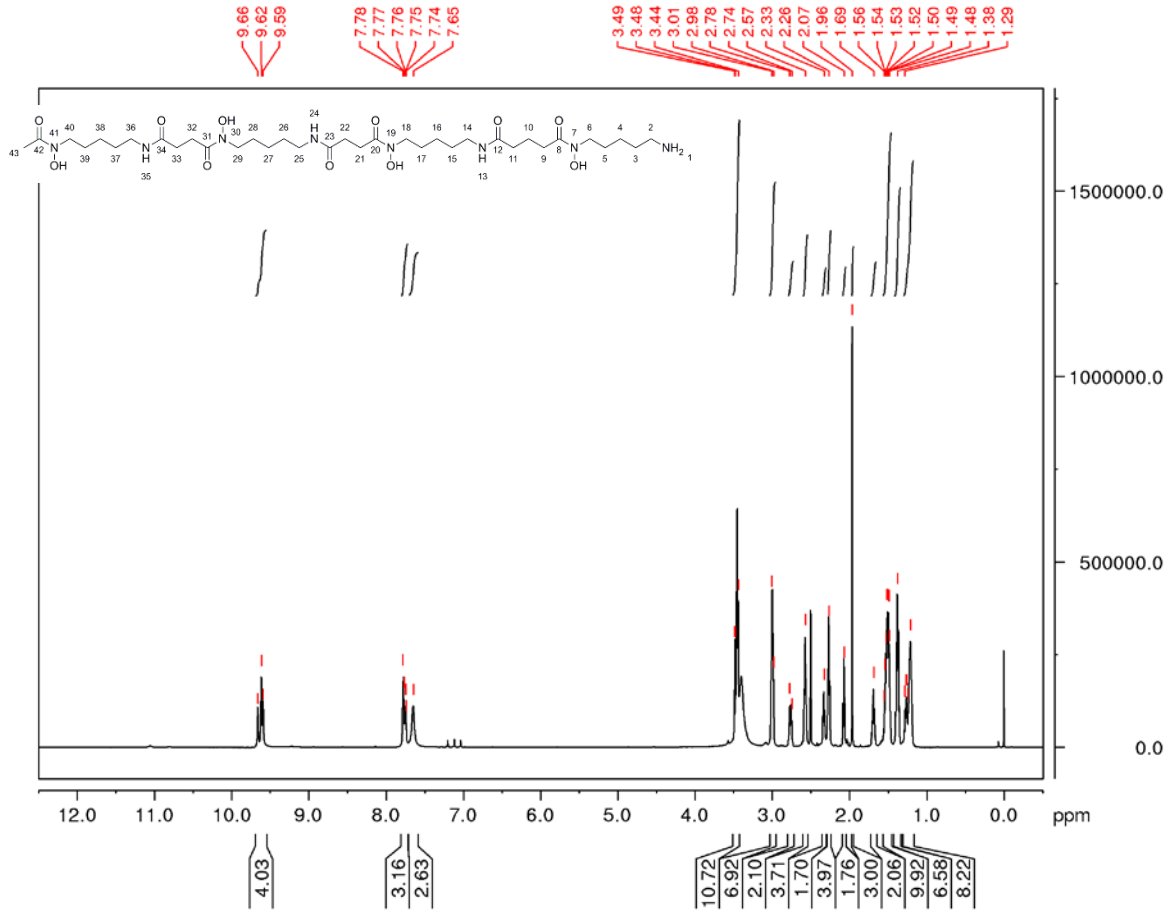


Figure S2a. ^{1}H NMR spectrum (600 MHz, DMSO-d_6) for DFOB-PPH (**3**).

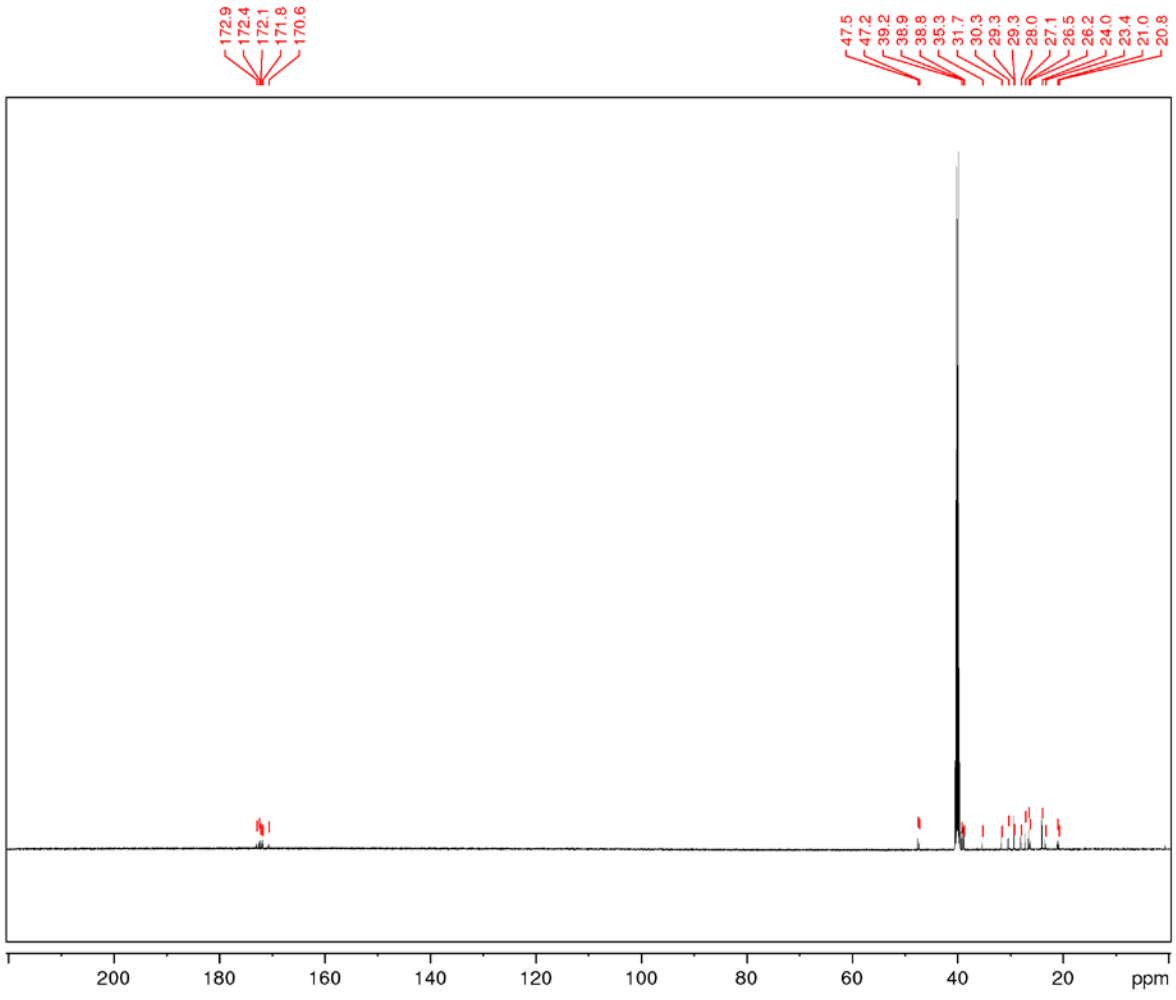


Figure S2b. ^{13}C NMR spectrum (150 MHz, DMSO-d_6) for DFOB-PPH (**3**).

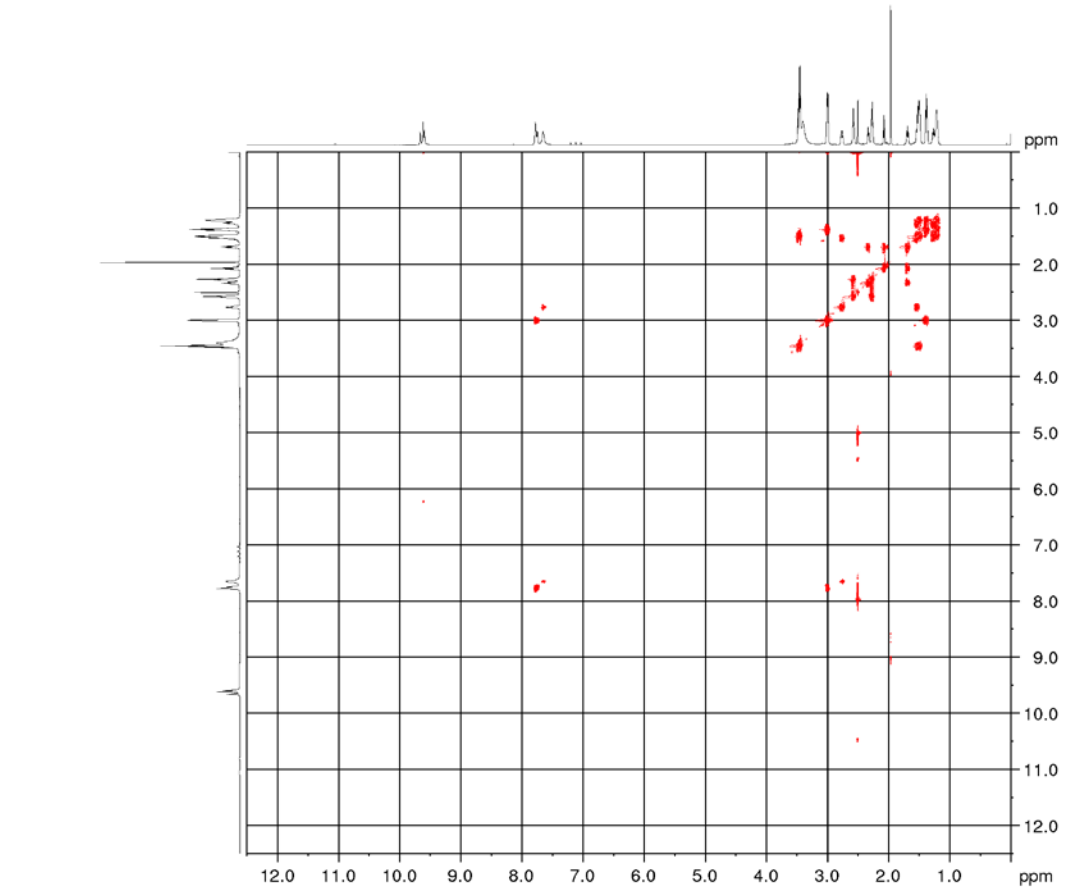


Figure S2c. ^{1}H-^{1}H COSY NMR spectrum (600 MHz, DMSO-d_6) for DFOB-PPH (**3**).

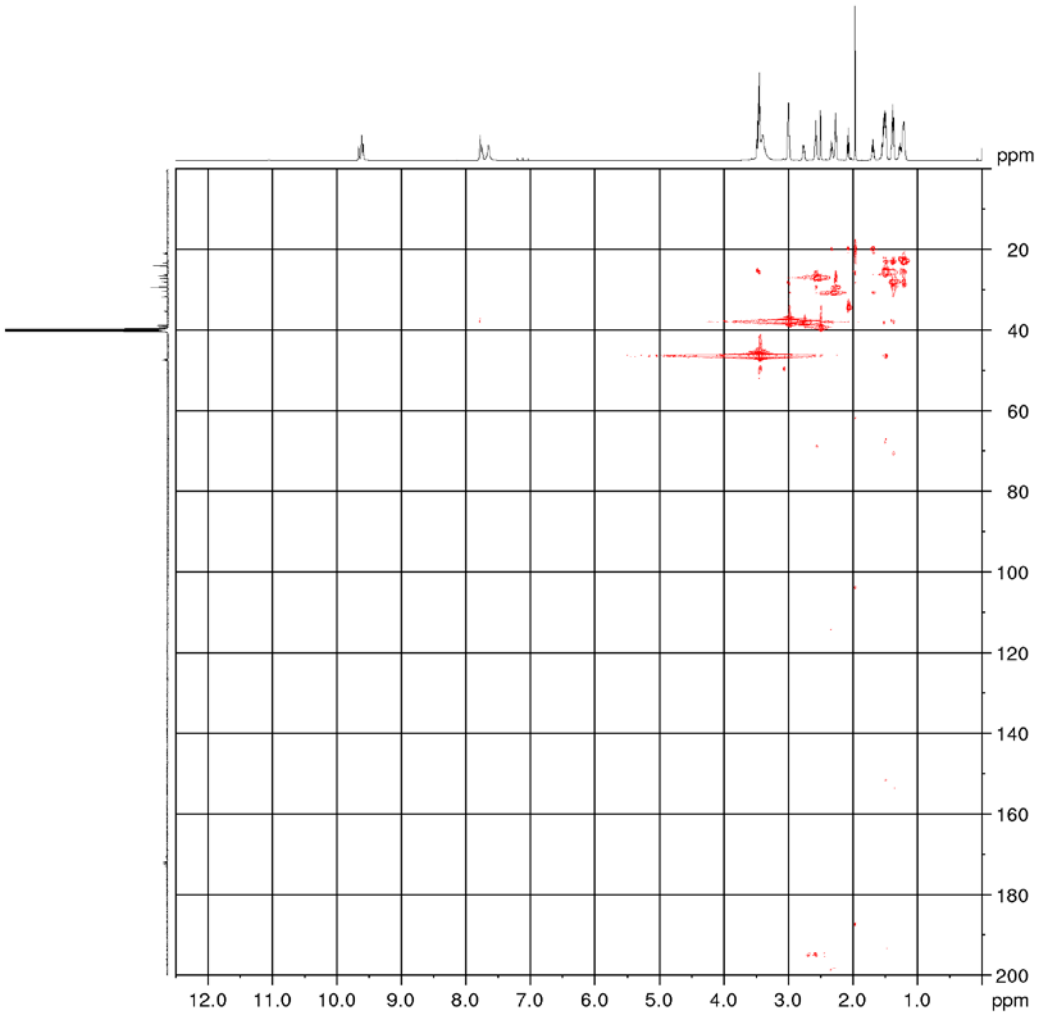


Figure S2d. ^{1}H-^{13}C HSQC NMR spectrum (600 MHz, DMSO-d_6) for DFOB-PPH (**3**).

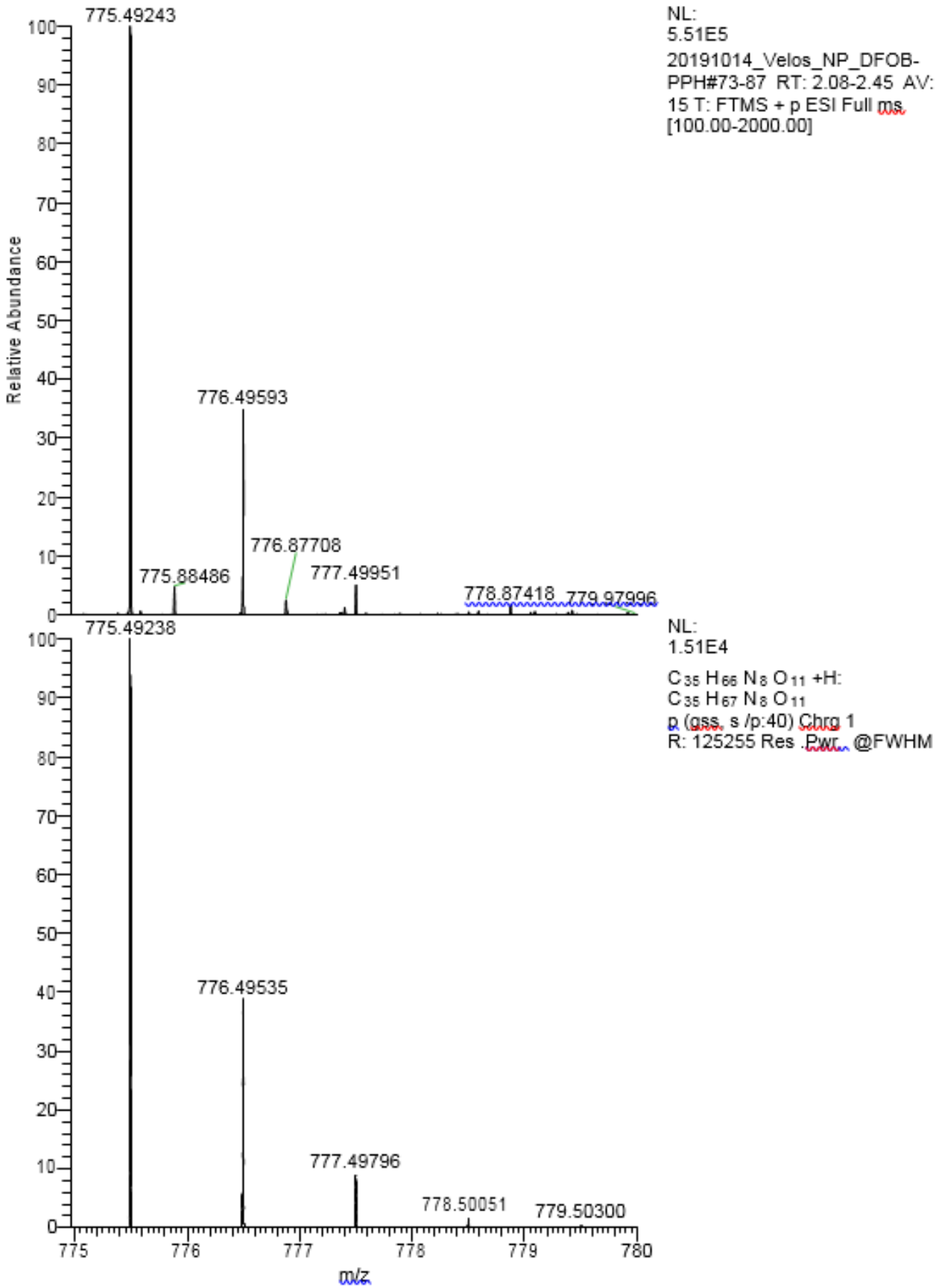


Figure S2e. Experimental (top) and calculated (bottom) isotope patterns for the $[M+H]^+$ adduct of DFOB-PPH (**3**).

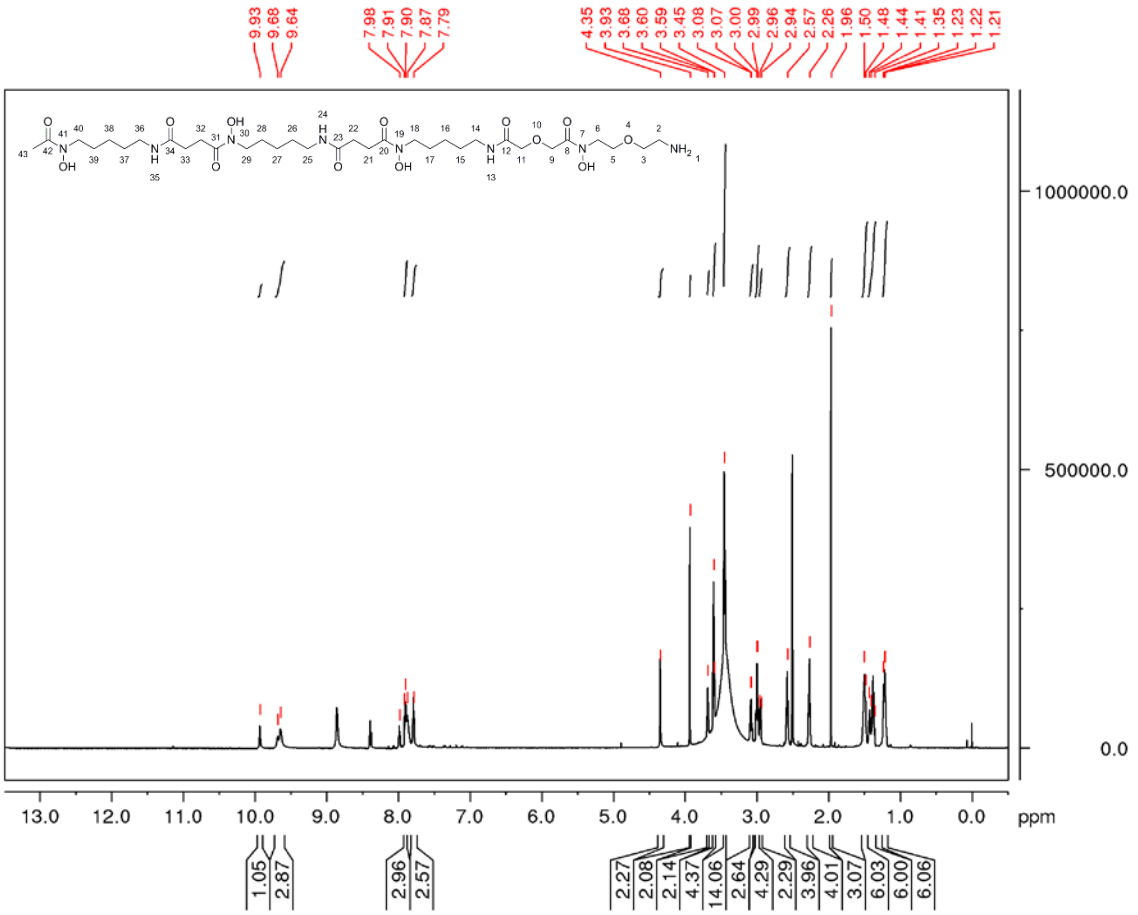


Figure S3a. ^{1}H NMR spectrum (600 MHz, DMSO-d_6) for DFOB-PPH^{N}O^{C}O (**4**).

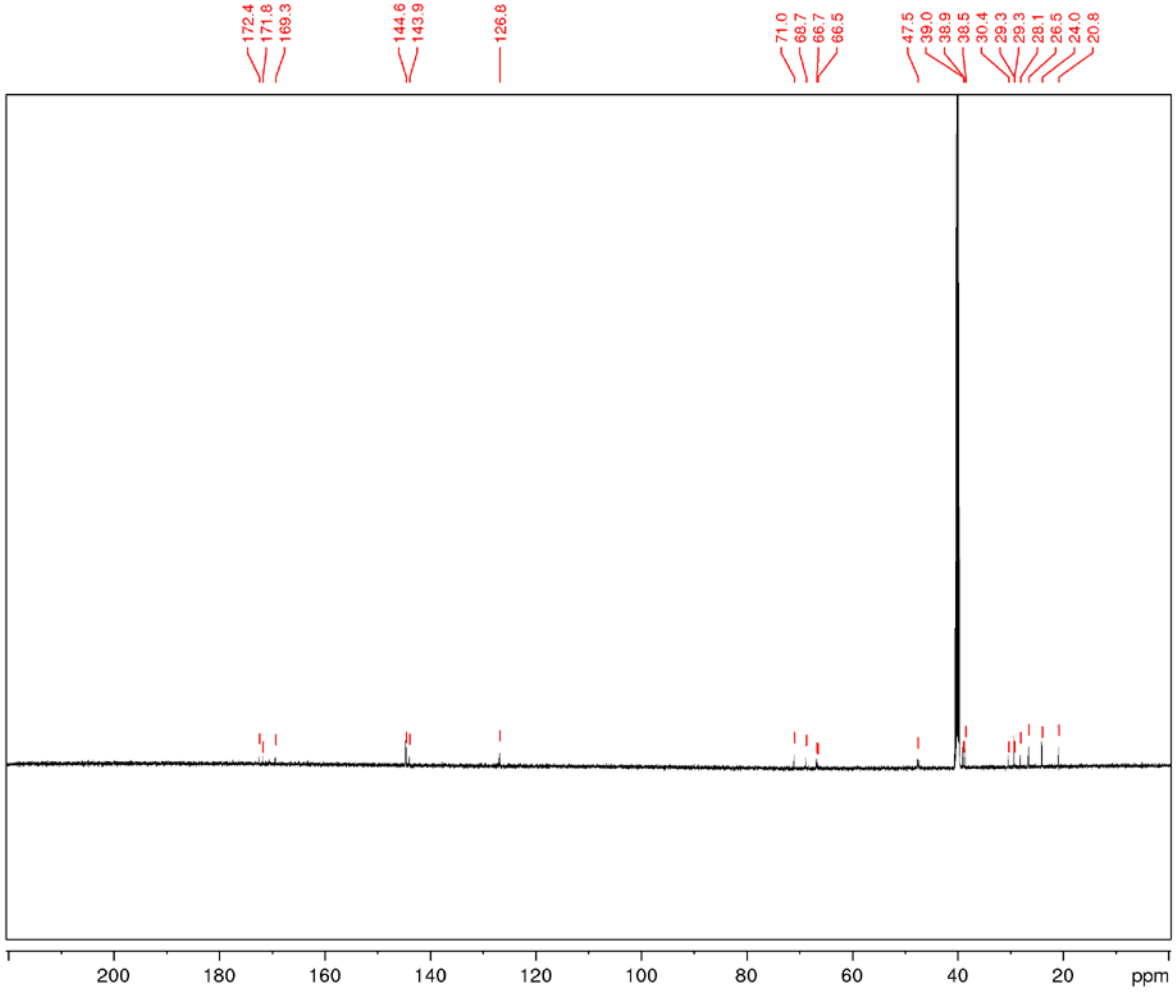


Figure S3b. ^{13}C NMR spectrum (150 MHz, DMSO-d_6) for DFOB-PPH^{N}O^{C}O (**4**).

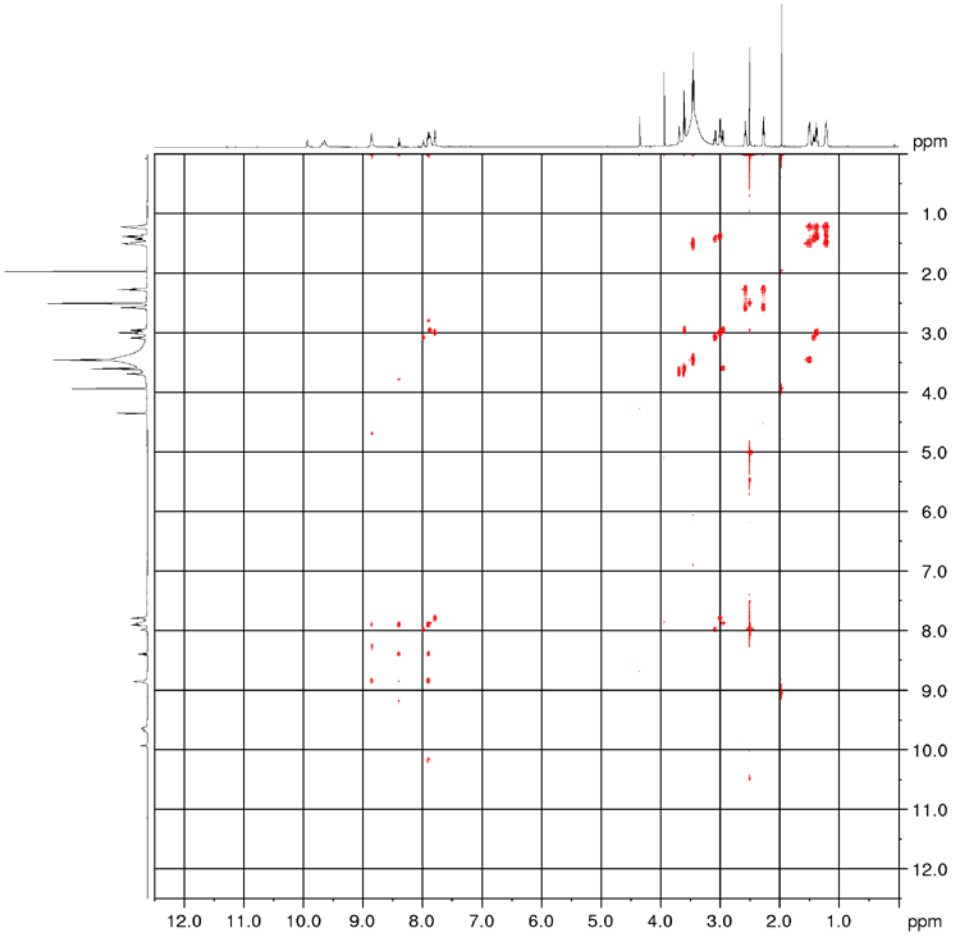


Figure S3c. ^{1}H-^{1}H COSY NMR spectrum (600 MHz, DMSO-d_6) for DFOB-PPH^{N}O^{C}O (**4**).

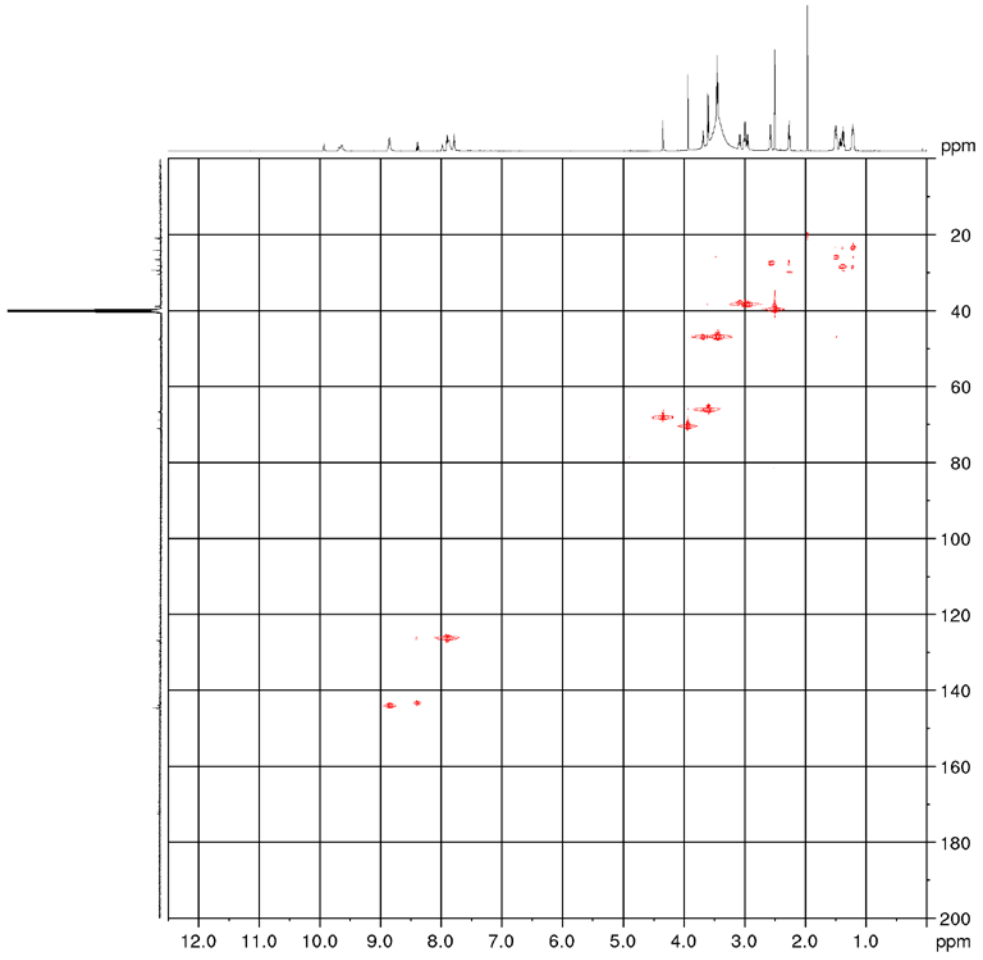
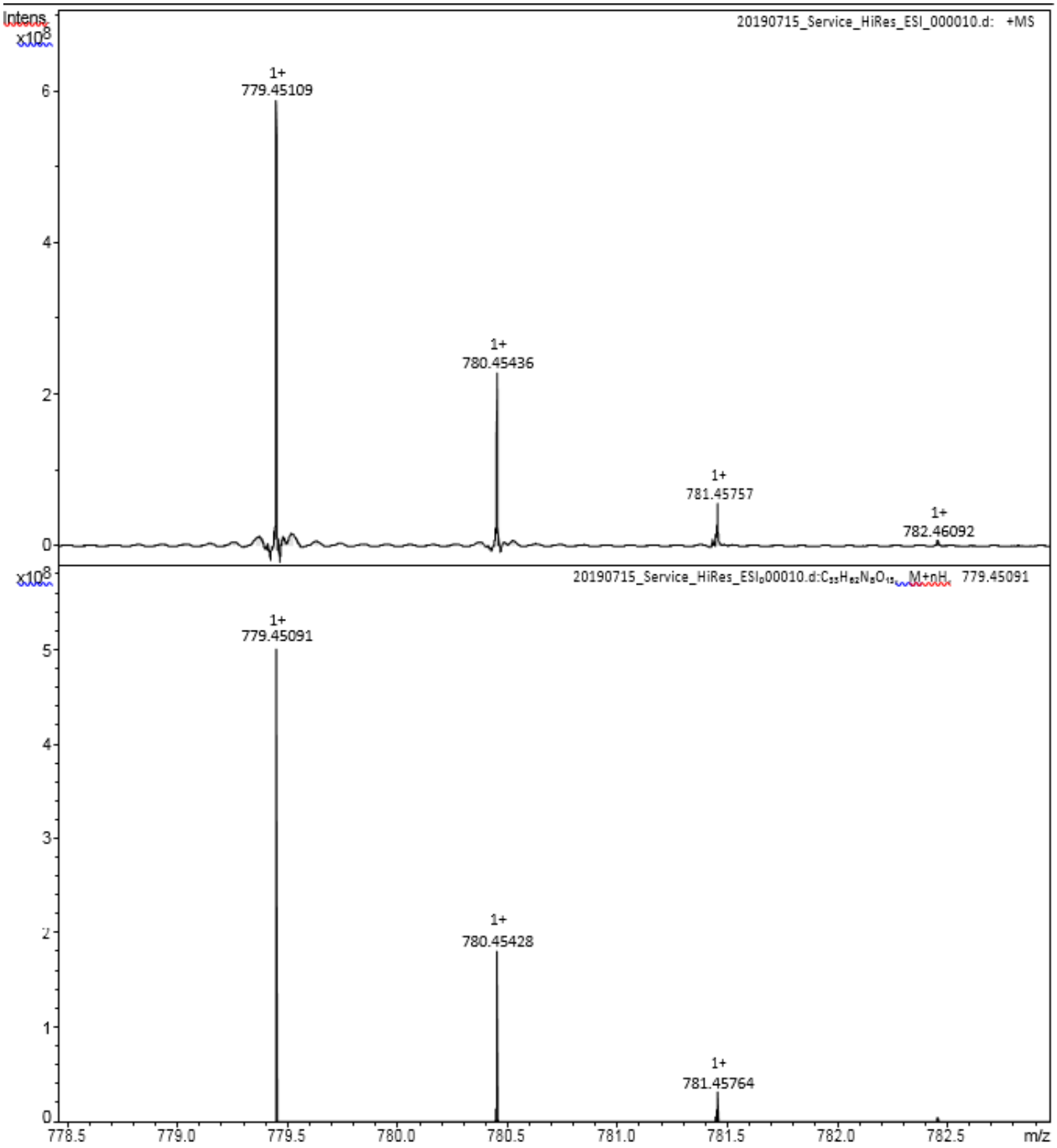


Figure S3d. ^{1}H-^{13}C HSQC NMR spectrum (600 MHz, DMSO-d_6) for DFOB-PPH^{N}O^{C}O (**4**).



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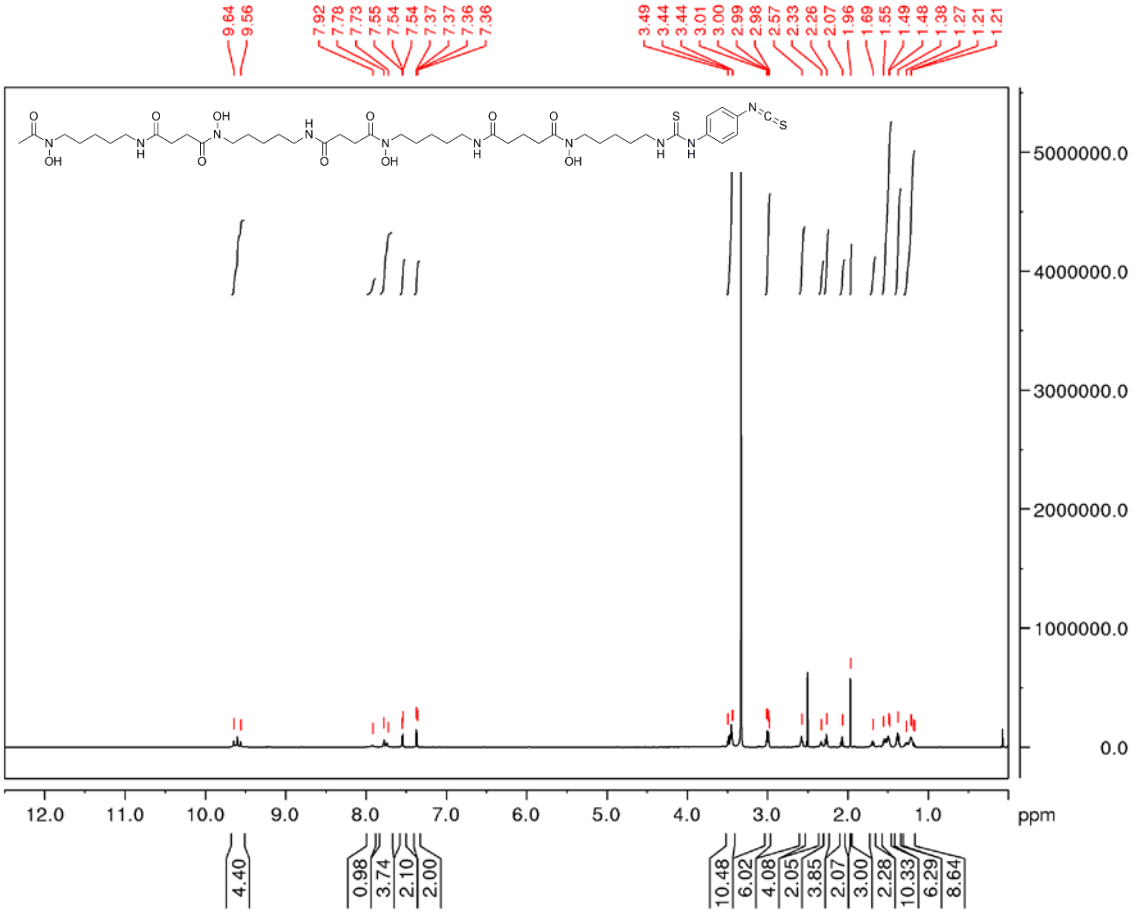


Figure S4a. ^{1}H NMR spectrum (600 MHz, DMSO-d_6) for DFOB-PPH-*p*-Bn-SCN (**5**).

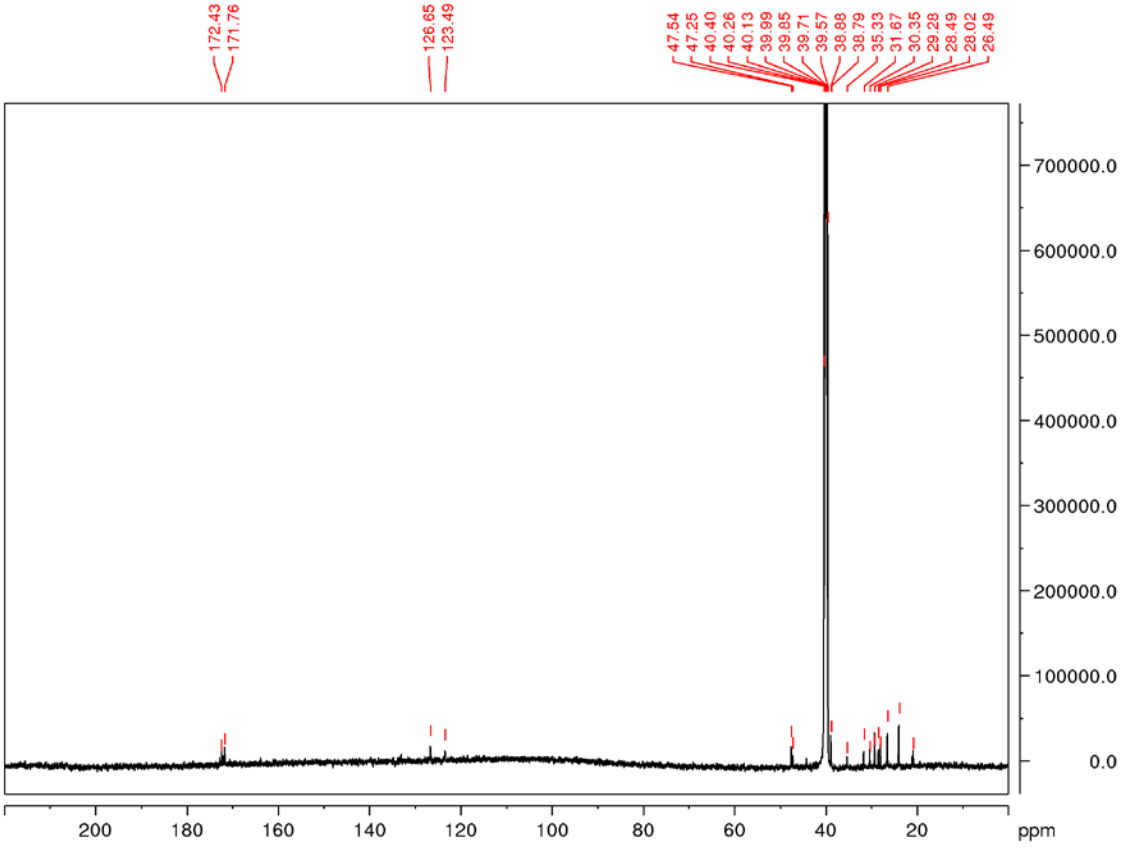


Figure S4b. ^{13}C NMR spectrum (150 MHz, DMSO-d_6) for DFOB-PPH-*p*-Bn-SCN (**5**).

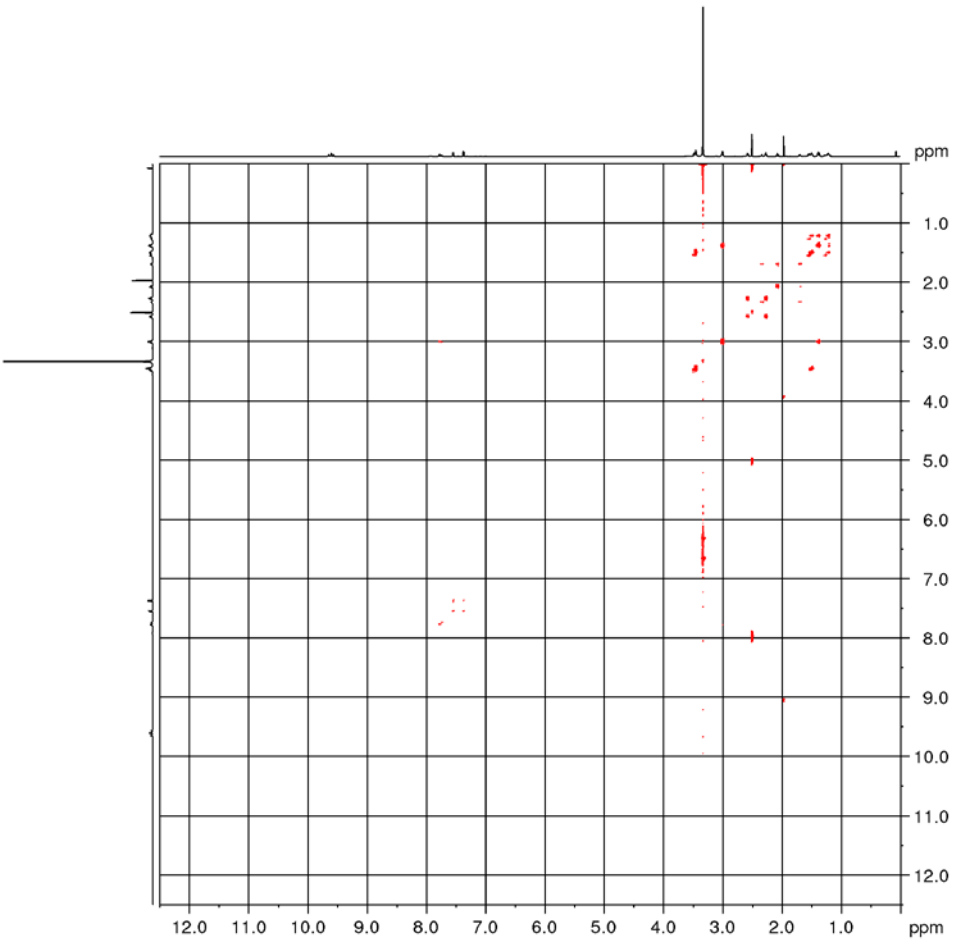


Figure S4c. ^{1}H-^{1}H COSY NMR spectrum (600 MHz, DMSO-d_6) for DFOB-PPH-*p*-Bn-SCN (**5**).

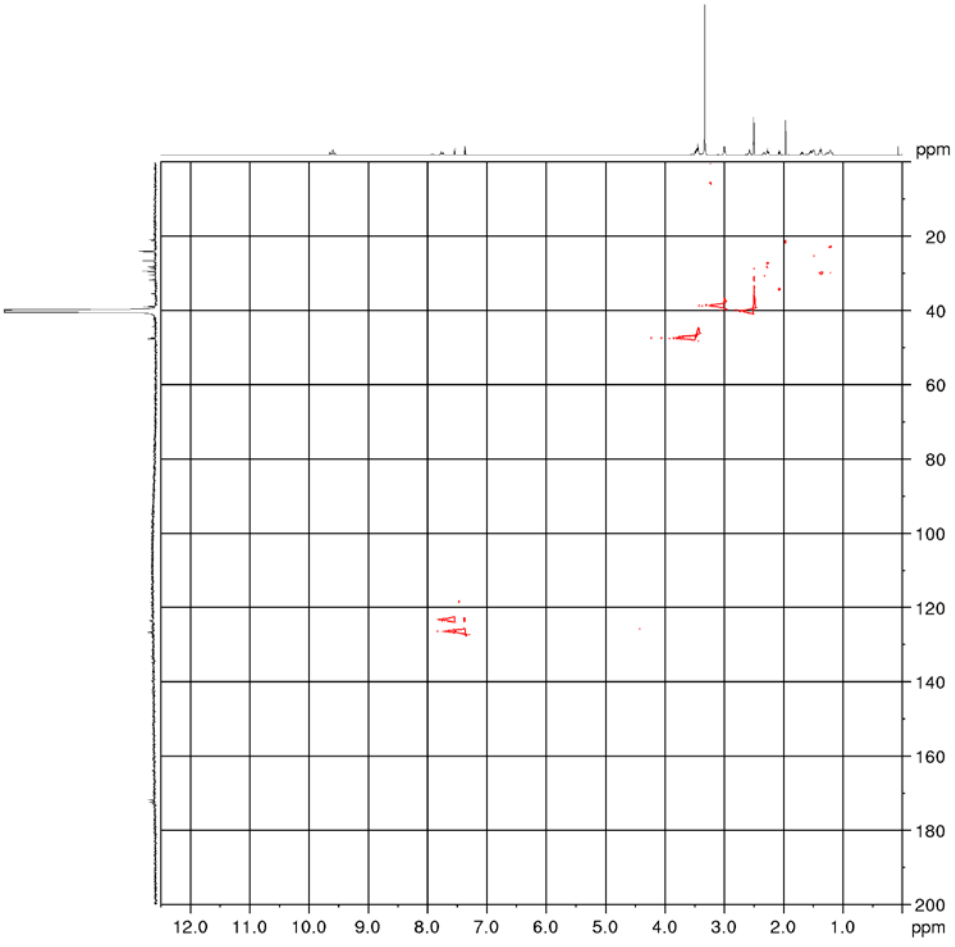
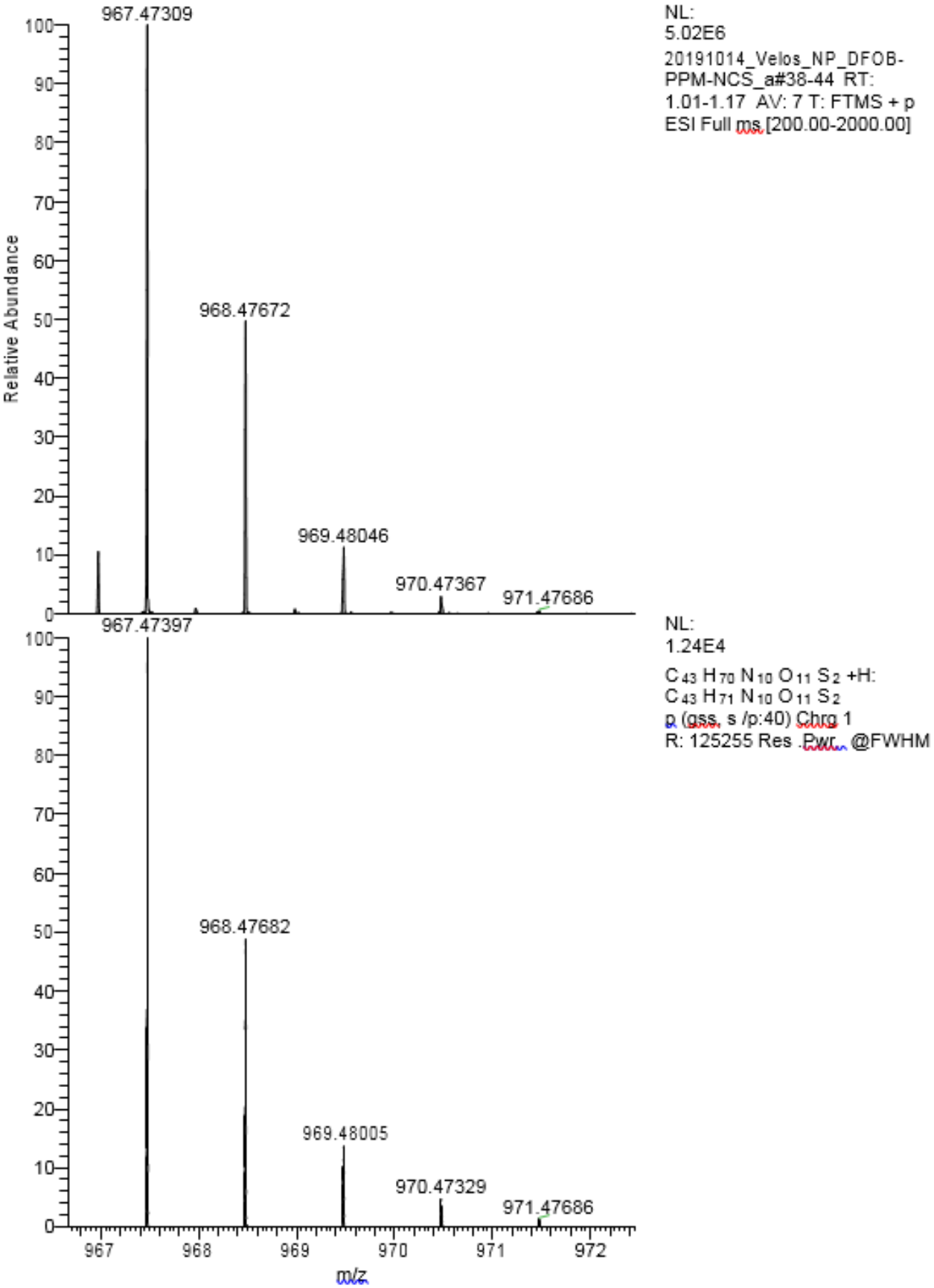


Figure S4d. ^{1}H-^{13}C HSQC NMR spectrum (600 MHz, DMSO-d_6) for DFOB-PPH-*p*-Bn-SCN (**5**).



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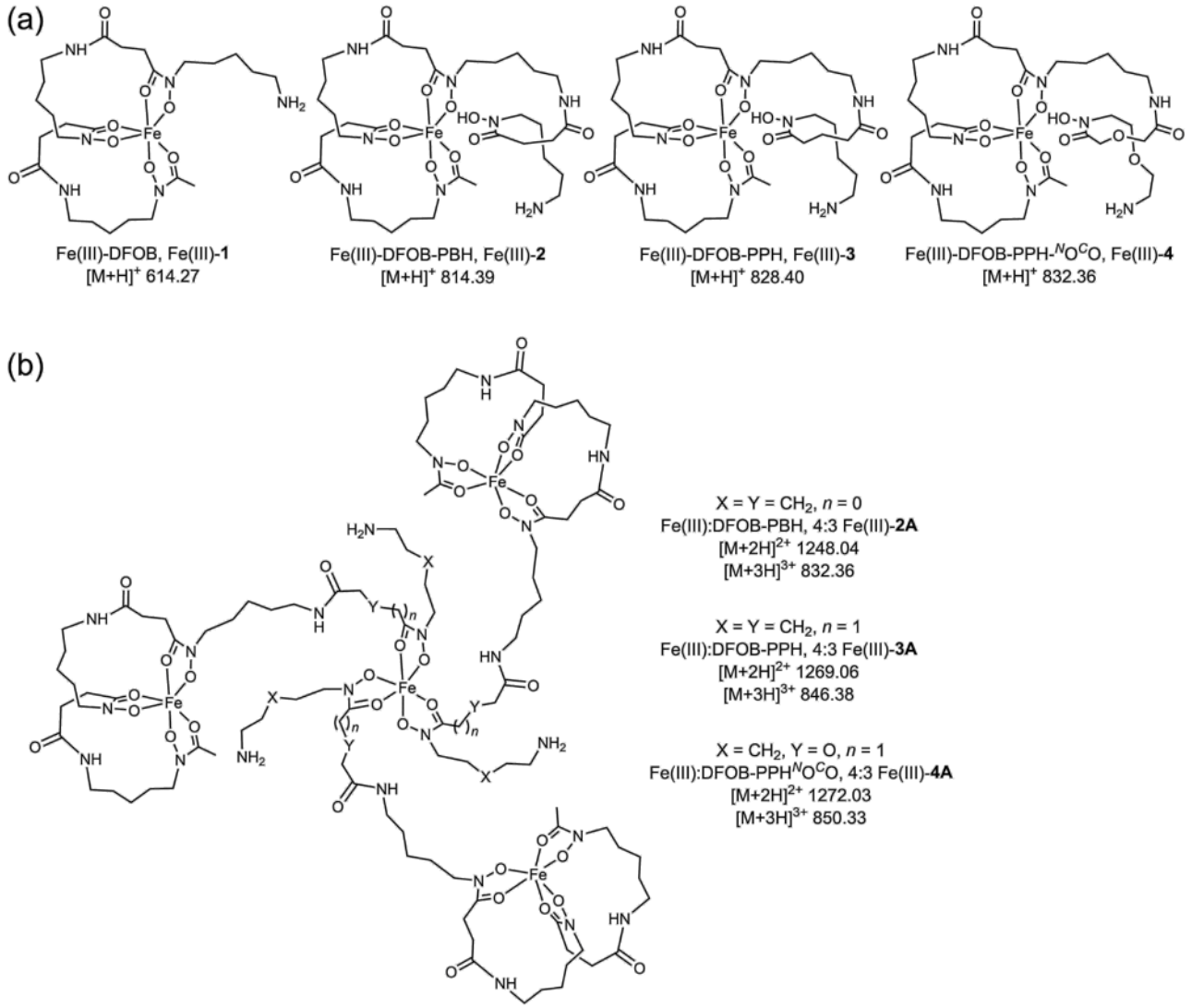

Scheme S1. Complexes between Fe(III) and **1**–**4** as formed in a metal:ligand stoichiometry of (a) 1:1 or (b) 4:3.