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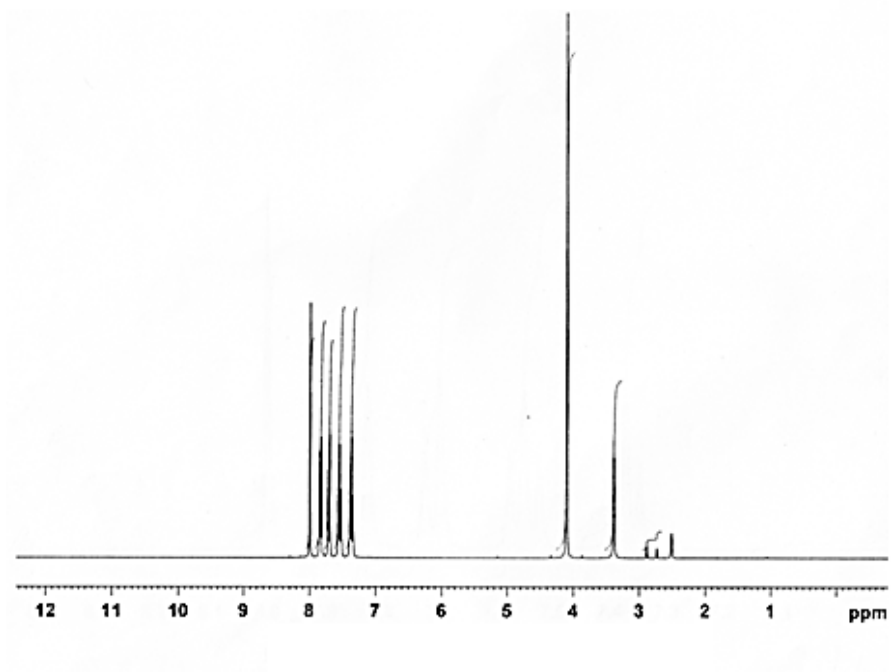
SUPPLEMENTARY MATERIAL TO

**Synthesis, Characterization and Antimicrobial Activity of Benzofuran and Thiophene Substituted Novel Diketoxime Derivatives**

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<sup>1</sup> *University of Fırat, Faculty of Science, Department of Chemistry , 23119 Elazığ-Turkey.*

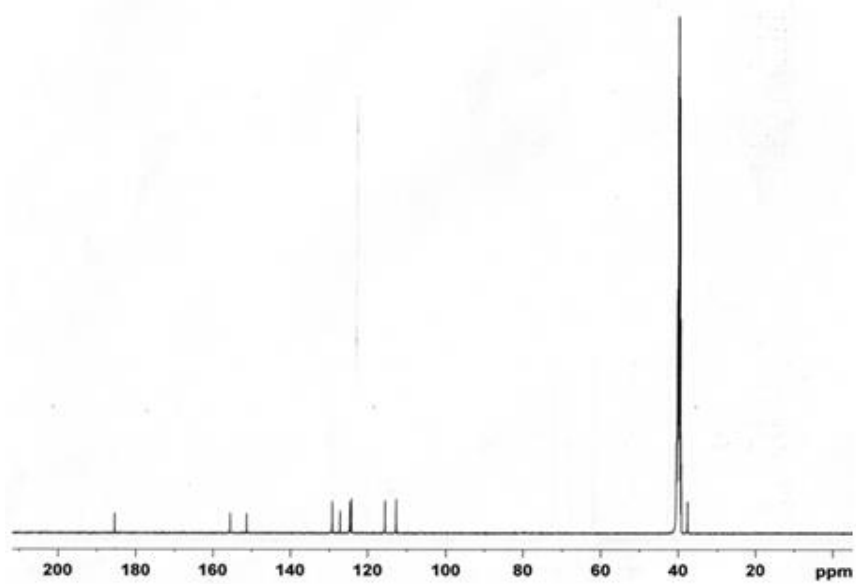
<sup>2</sup> *University of Fırat, Faculty of Science, Department of Biology , 23119 Elazığ-Turkey.*



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(a)



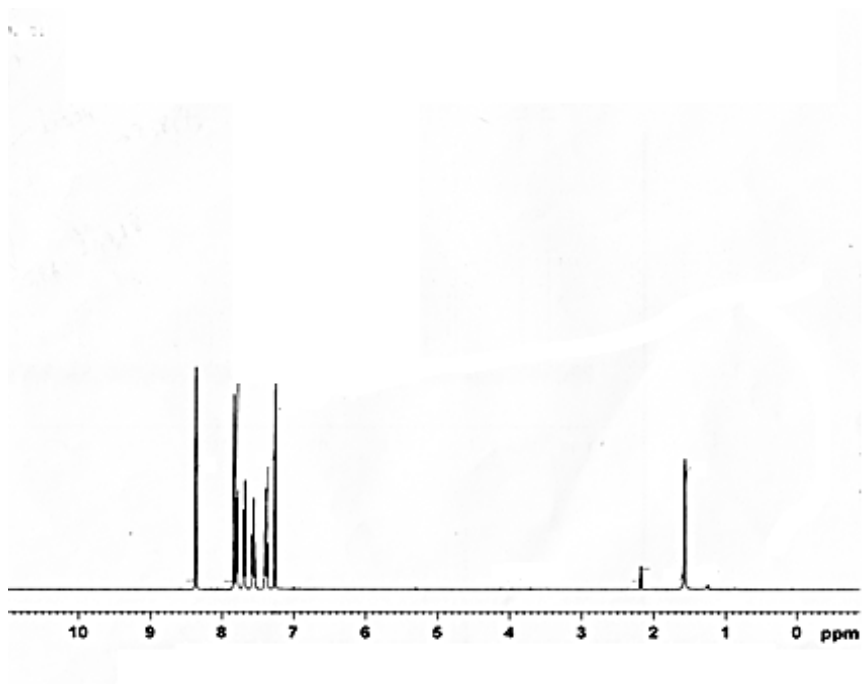
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(b)

21 **Figure S1:** (a)  $^1\text{H-NMR}$  and (b)  $^{13}\text{C-NMR}$  spectra of compounds 1

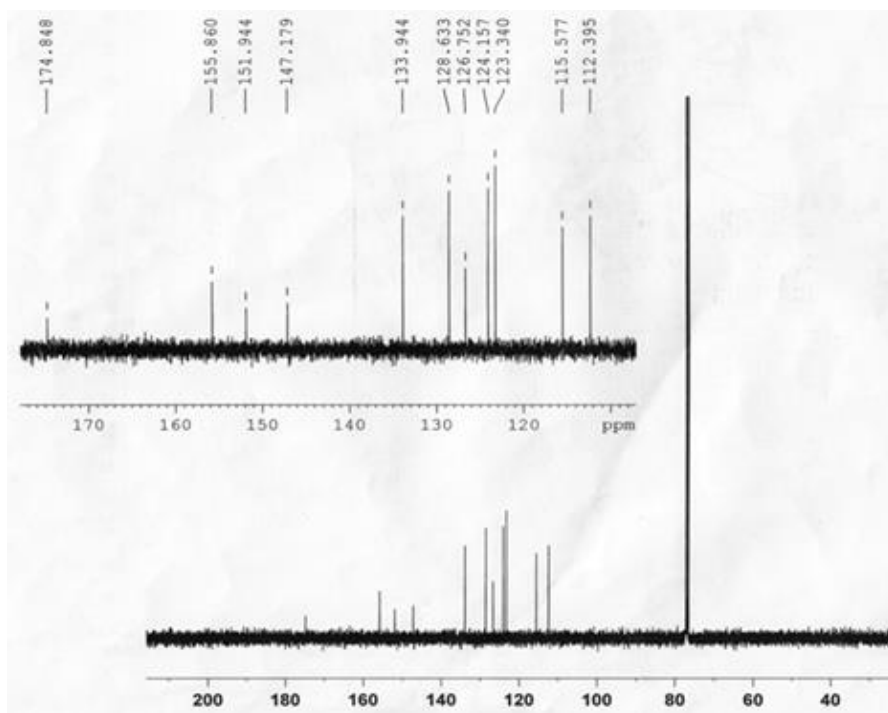
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(a)

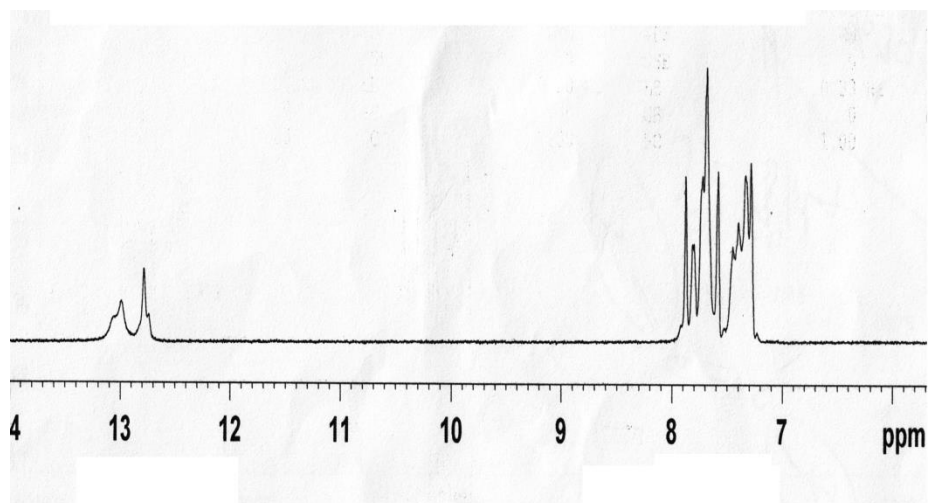


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(b)

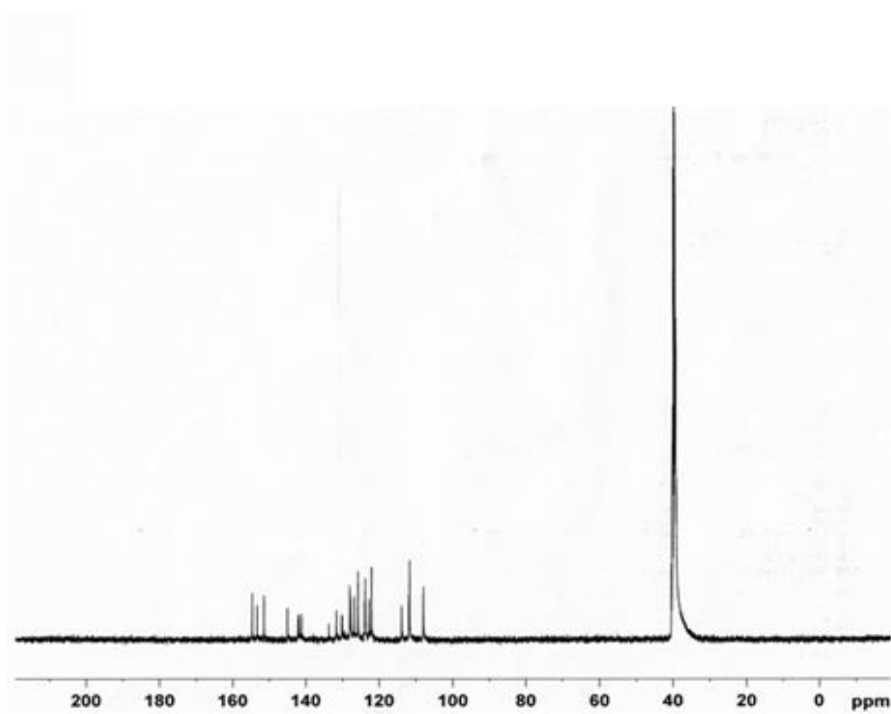
27 **Figure S2:** (a) <sup>1</sup>H-NMR and (b) <sup>13</sup>C-NMR spectra of compounds 2



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(a)



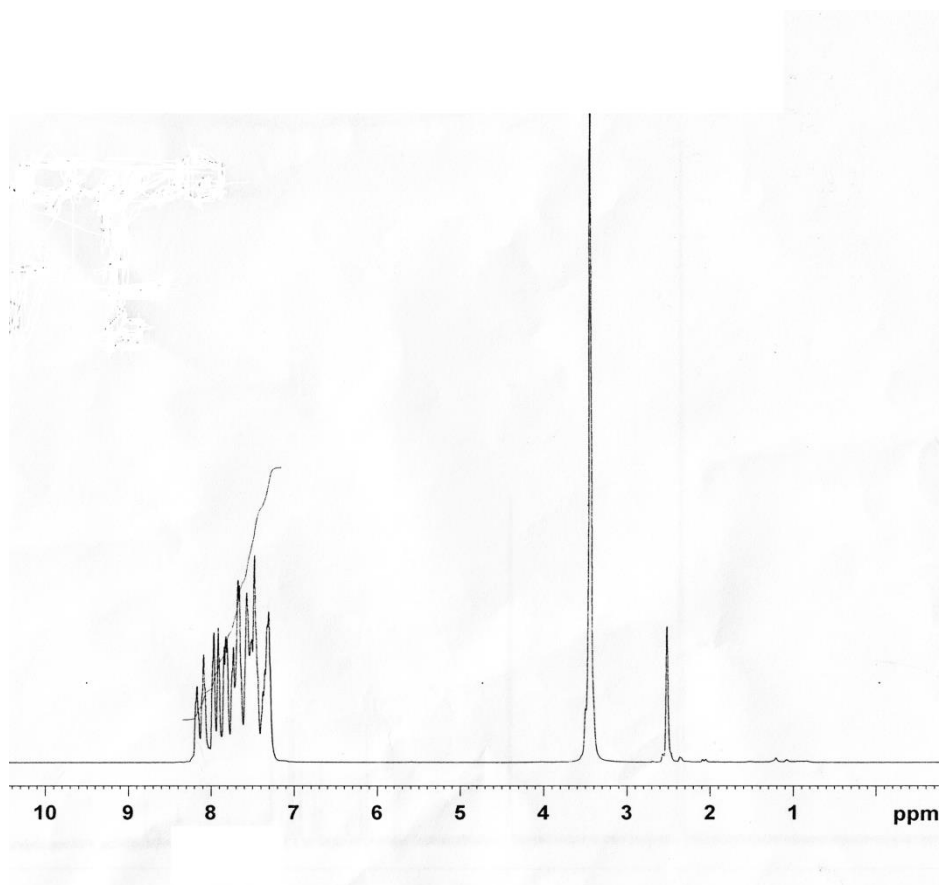
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(b)

32 **Figure S3:** (a)  $^1\text{H-NMR}$  and (b)  $^{13}\text{C-NMR}$  spectra of compounds 3

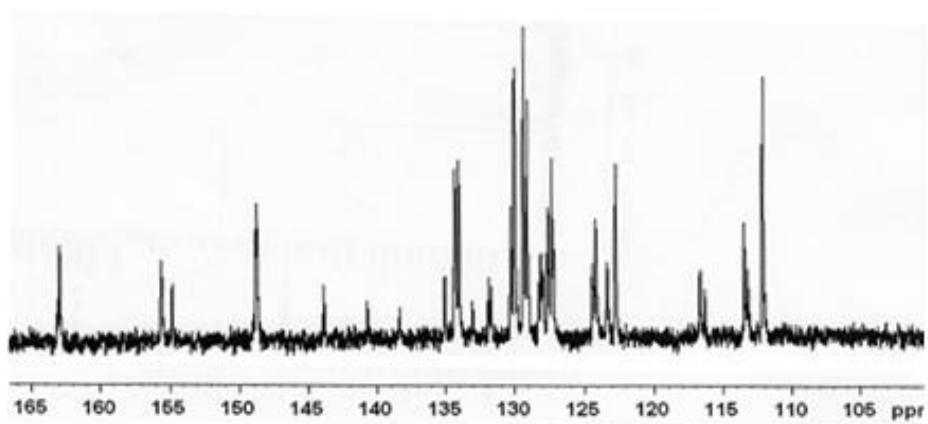
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(a)

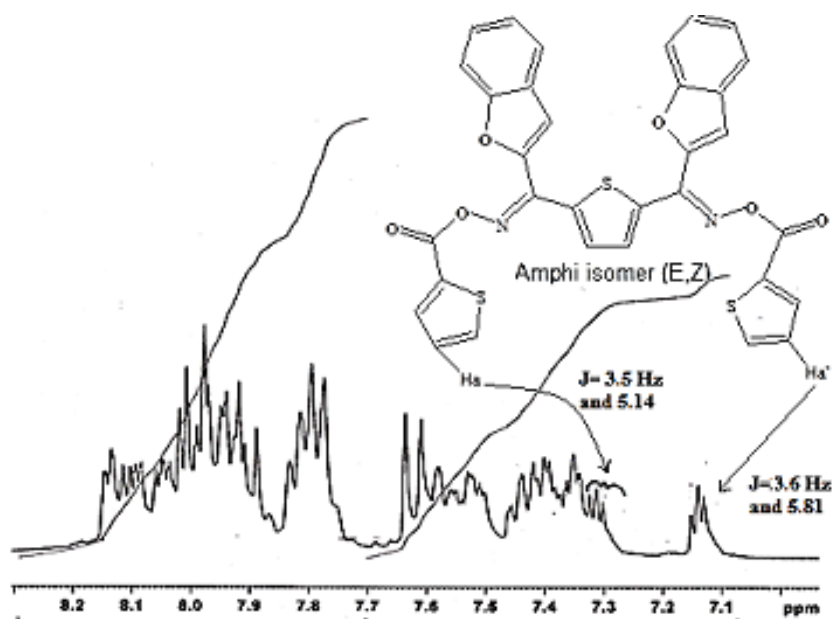


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(b)

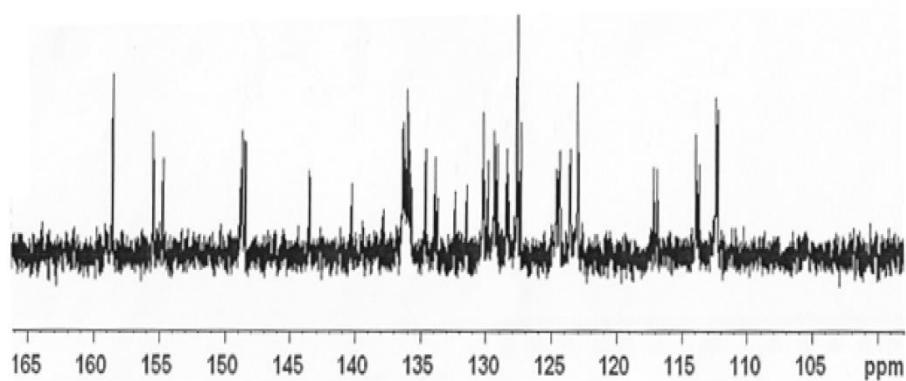
38 **Figure S4:** (a)  $^1\text{H-NMR}$  and (b)  $^{13}\text{C-NMR}$  spectra of compounds 4a



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(a)



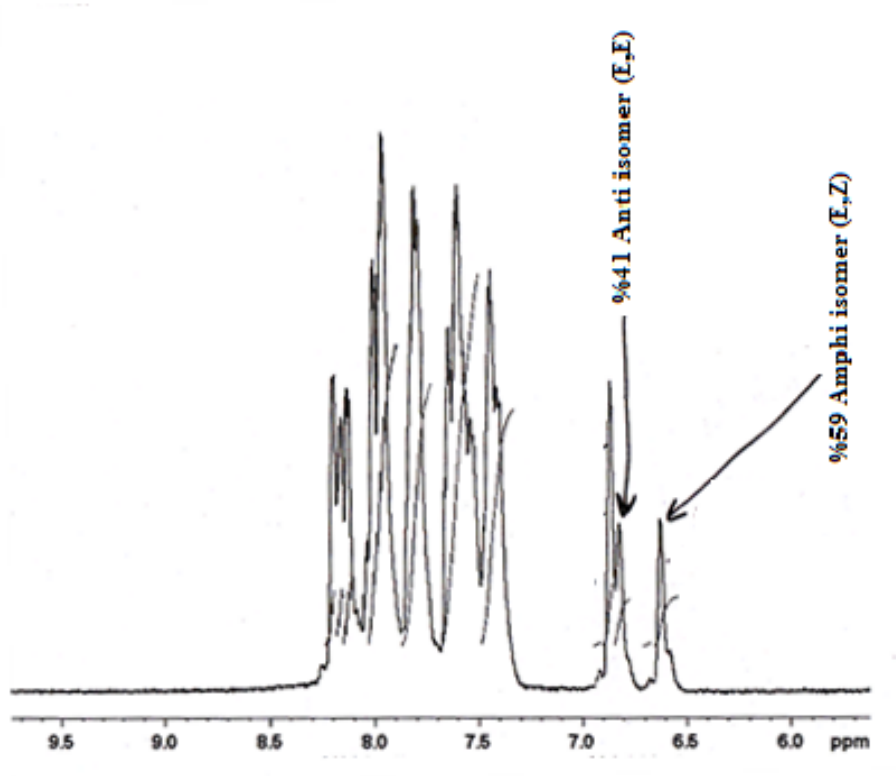
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(b)

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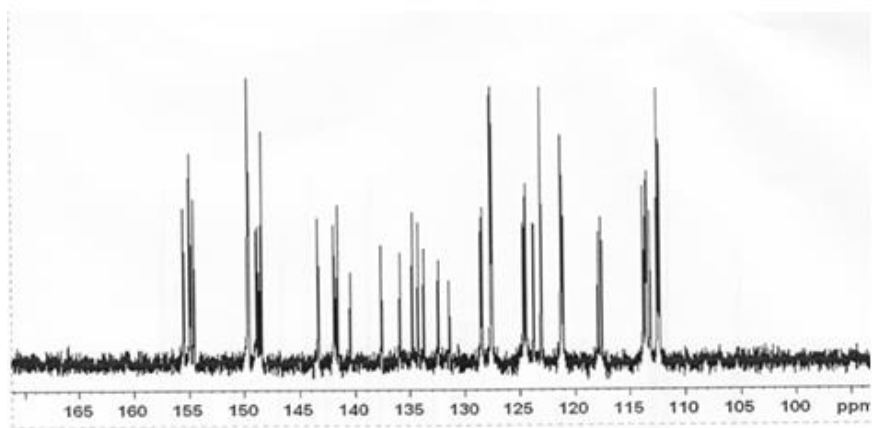
44 **Figure S5:** (a) <sup>1</sup>H-NMR and (b) <sup>13</sup>C-NMR spectra of compounds 4b



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(a)

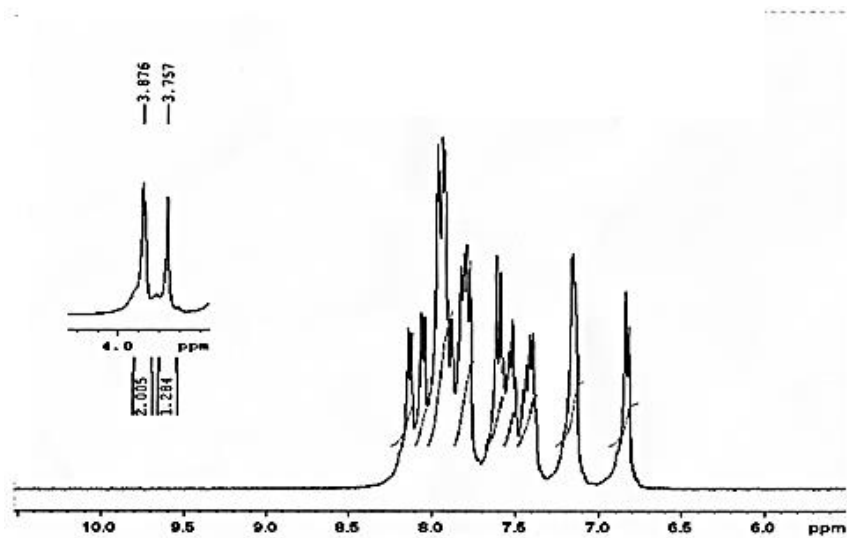


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(b)

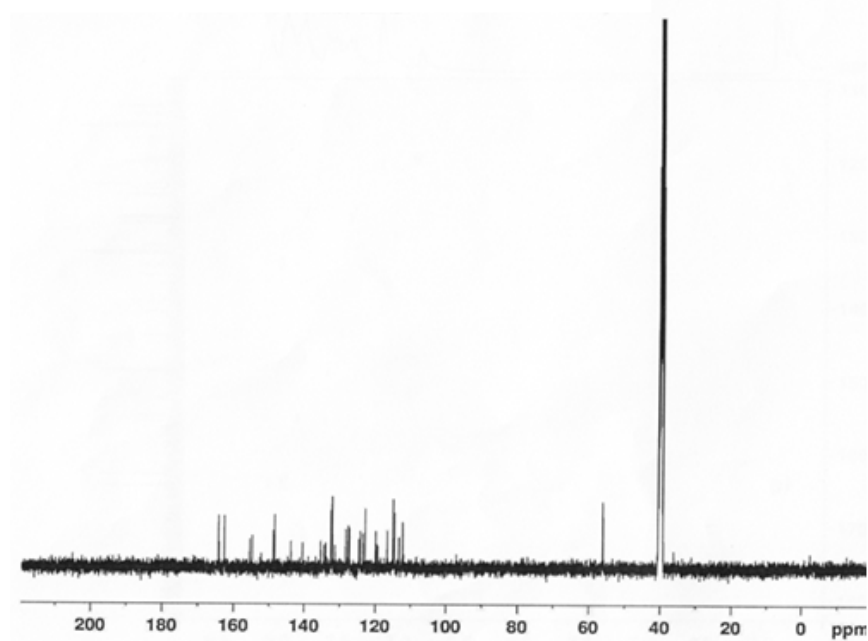
49 **Figure S6:** (a)  $^1\text{H-NMR}$  and (b)  $^{13}\text{C-NMR}$  spectra of compounds 4c



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(a)



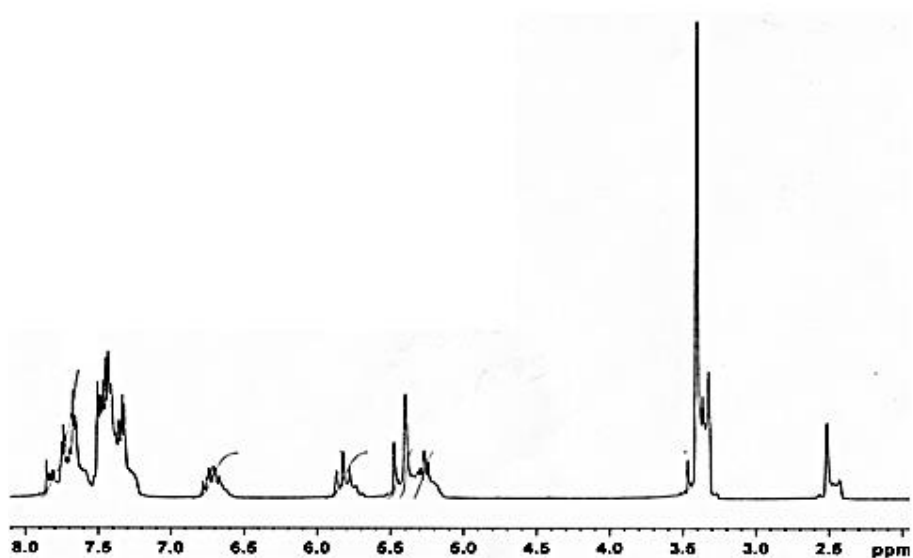
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(b)

54 **Figure S7:** (a) <sup>1</sup>H-NMR and (b) <sup>13</sup>C-NMR spectra of compounds 4d



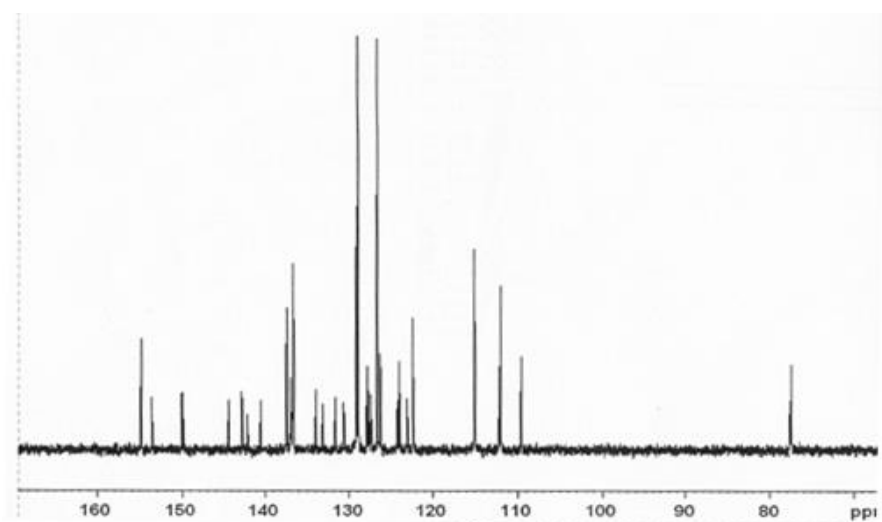


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(a)

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(b)

60 **Figure S8:** (a) <sup>1</sup>H-NMR and (b) <sup>13</sup>C-NMR spectra of compounds 4e