Electronic Supplementary Material (ESI) for New Journal of Chemistry.

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#### **NEW JOURNAL OF CHEMISTRY**

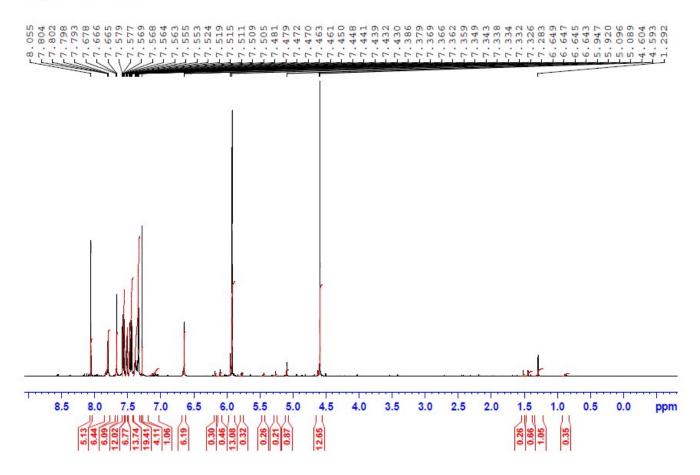
#### **SUPPLEMENTARY MATERIAL**

Design, synthesis, anticancer activity and molecular docking studies of new benzimidazole derivatives bearing 1,3,4-oxadiazole moiety as potential thymidylate synthase inhibitors

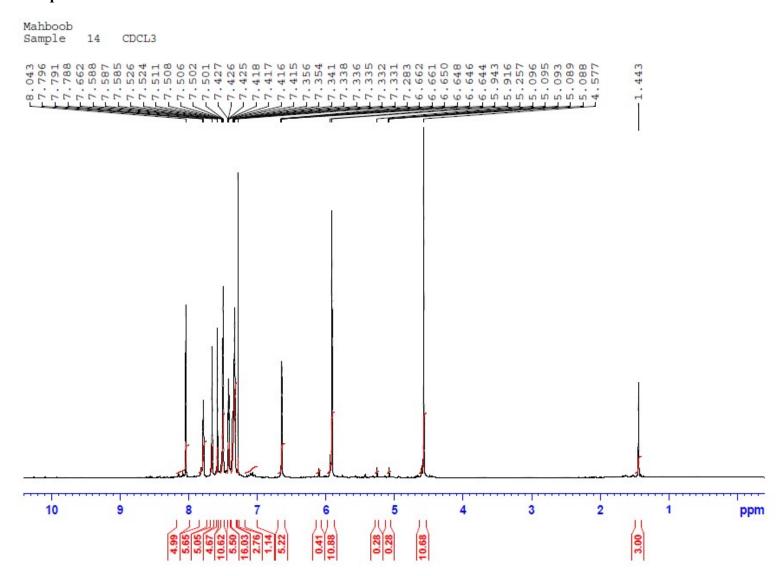
Abdulraheem SA Almalki<sup>a</sup>, Syed Nazreen<sup>\*, b,</sup> Serag Eldin I. Elbehairi<sup>c,d</sup>, Mohammad Asad<sup>e,f</sup>, Ali A Shati<sup>c</sup>, Mohammad Y. Alfaifi<sup>c</sup>, Abdulrahman Alhadhrami<sup>a</sup>, Ahmed A. Elhenawy<sup>b,g</sup>, Ali Q. Alorabi<sup>b</sup>, Abdullah M. Asiri<sup>e,f</sup>, Mohammad Mahboob Alam<sup>\*, b</sup>

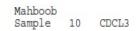
## $^{1}H$ NMR of compound $^{7}$

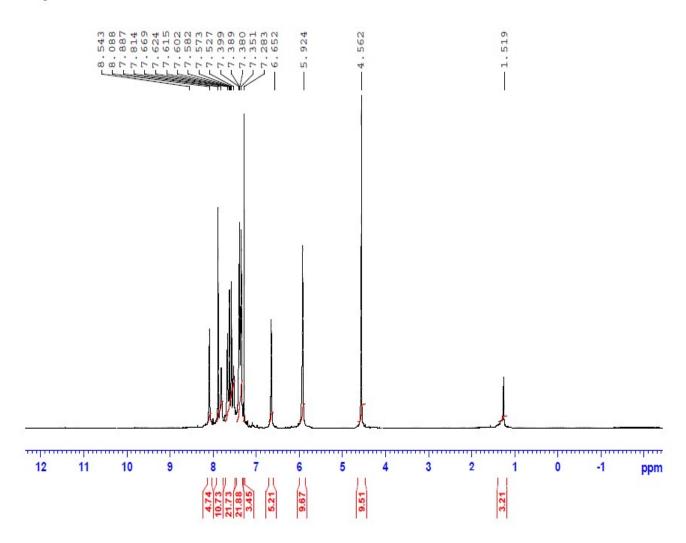
Mahboob Sample 12 CDCL3

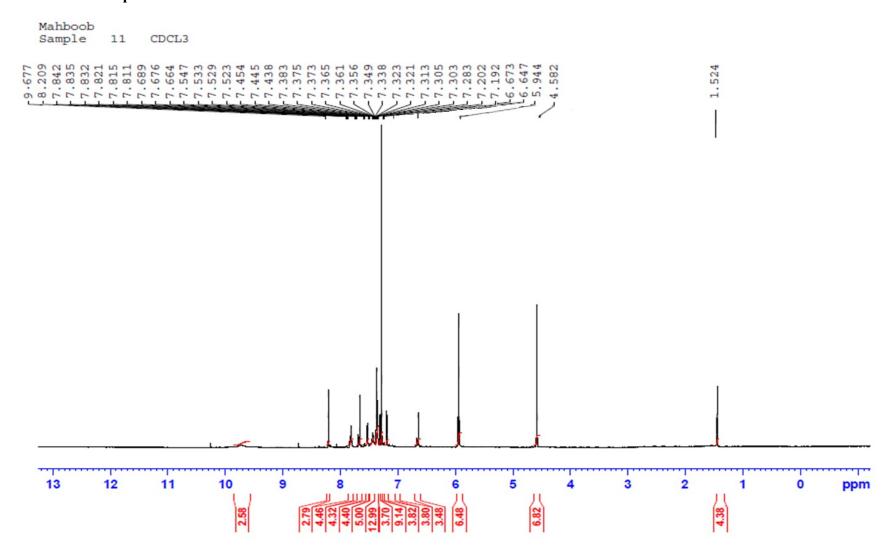


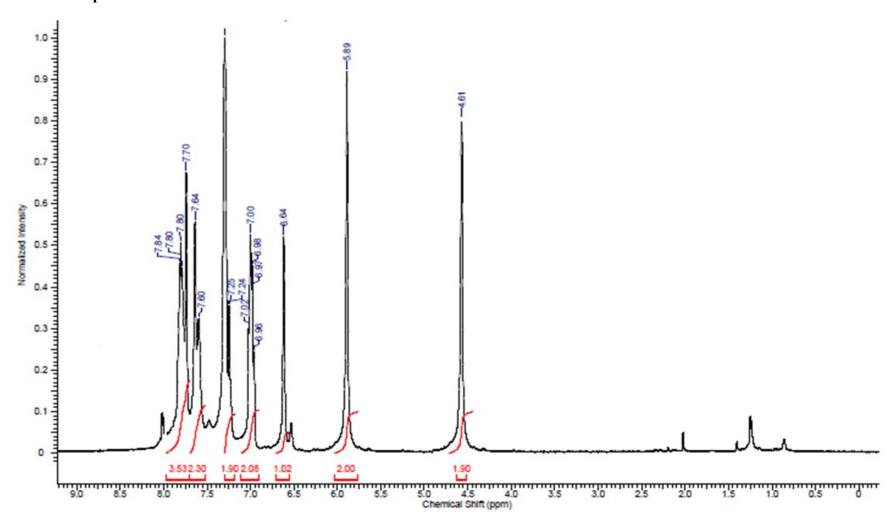
## $^{1}H\ NMR\ of\ compound\ 8$



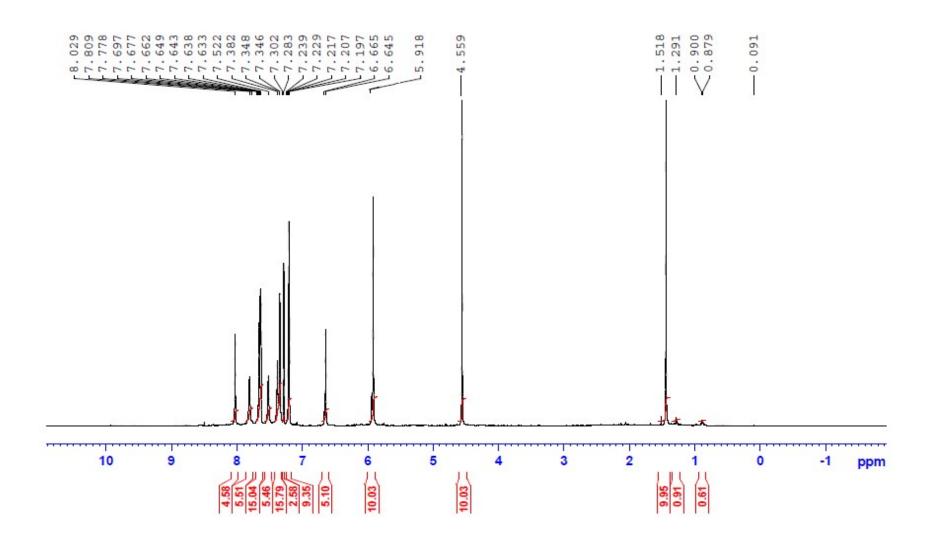


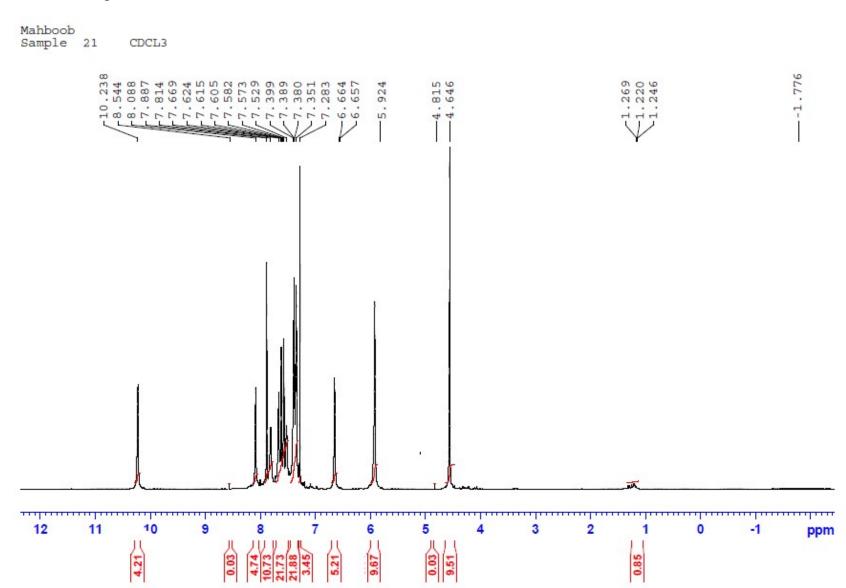


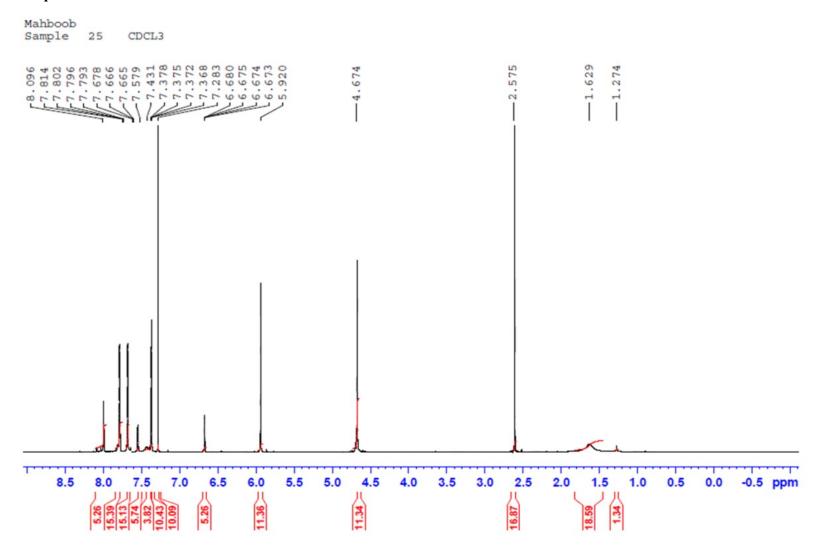


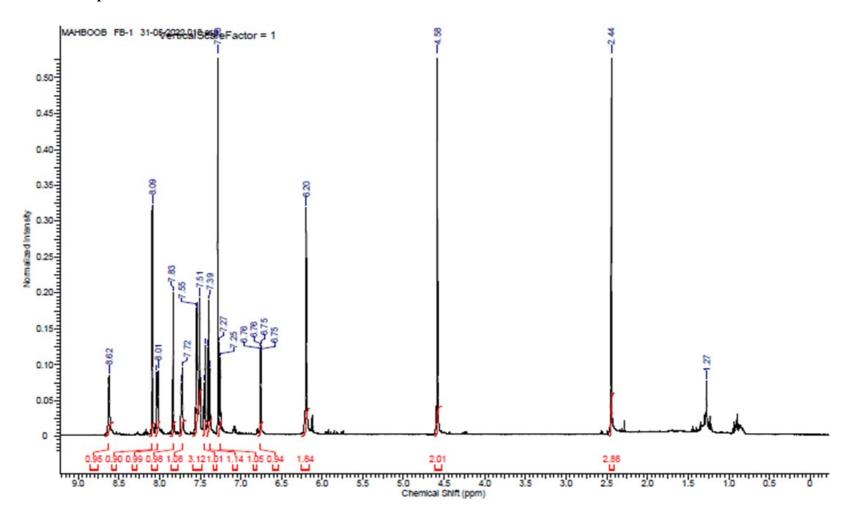


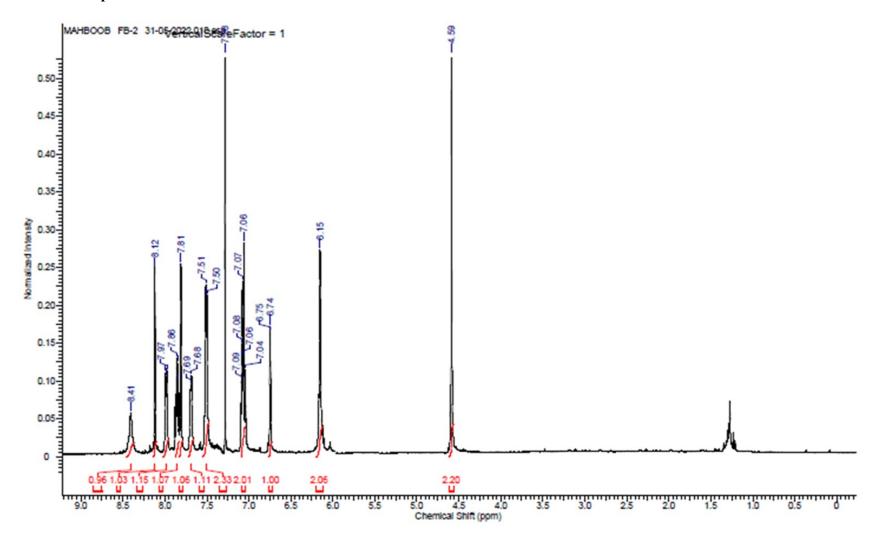
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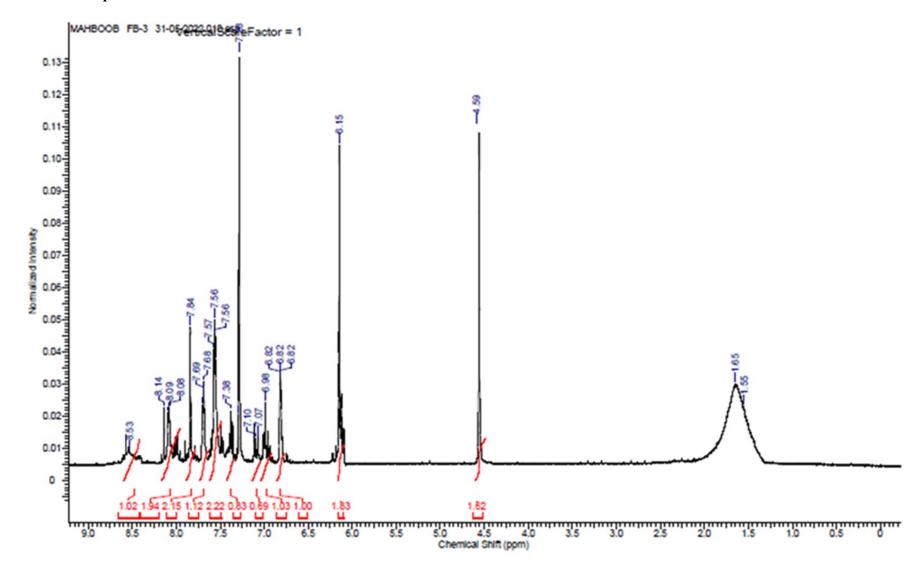


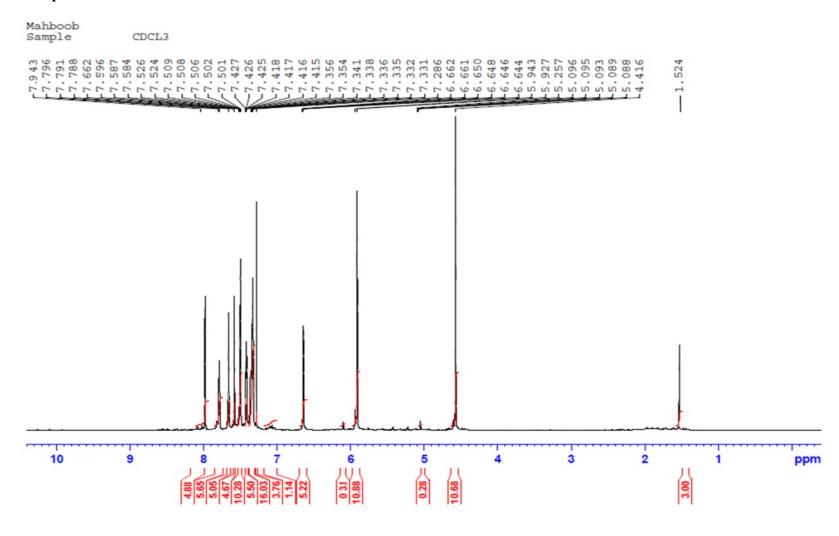


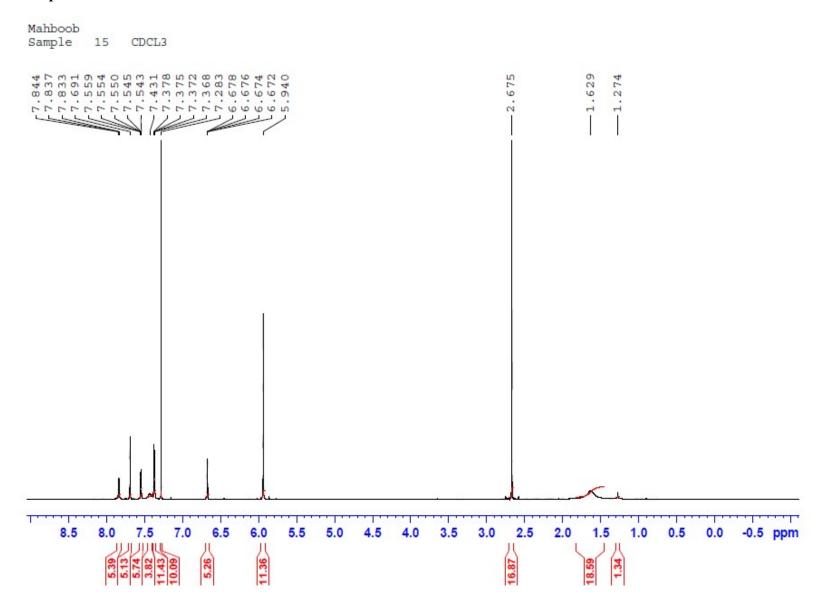




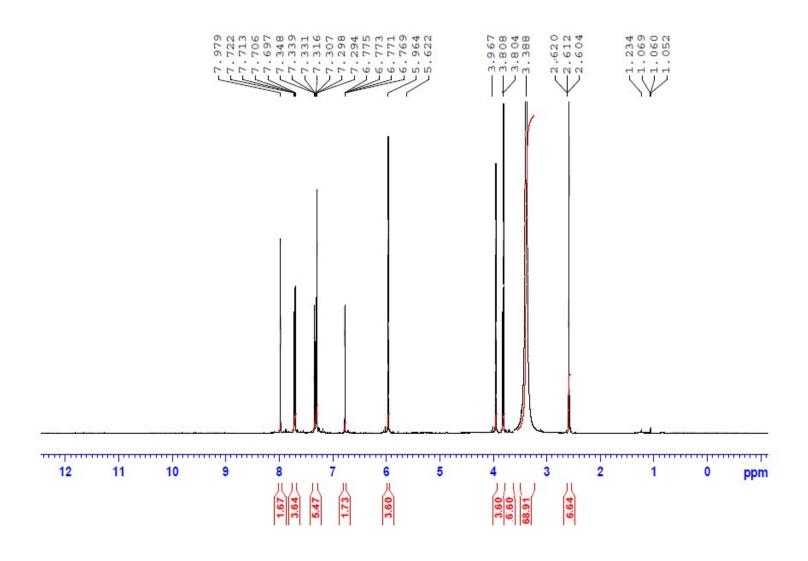






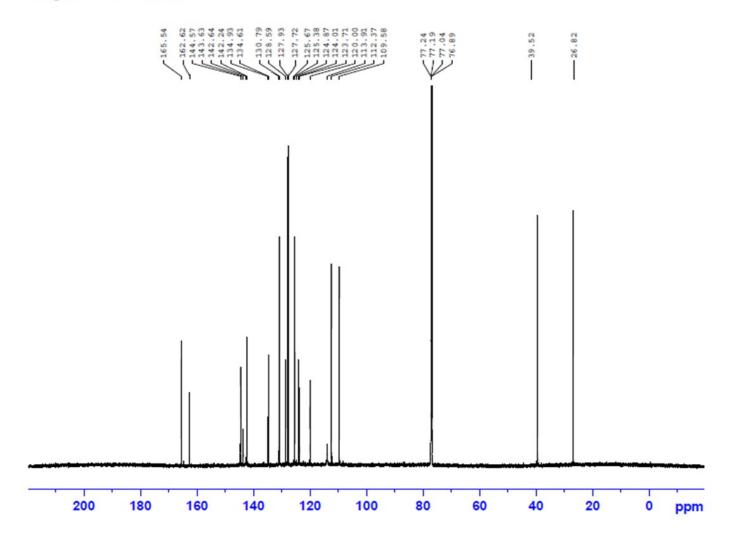


Mahboob Sample 16 DMSO



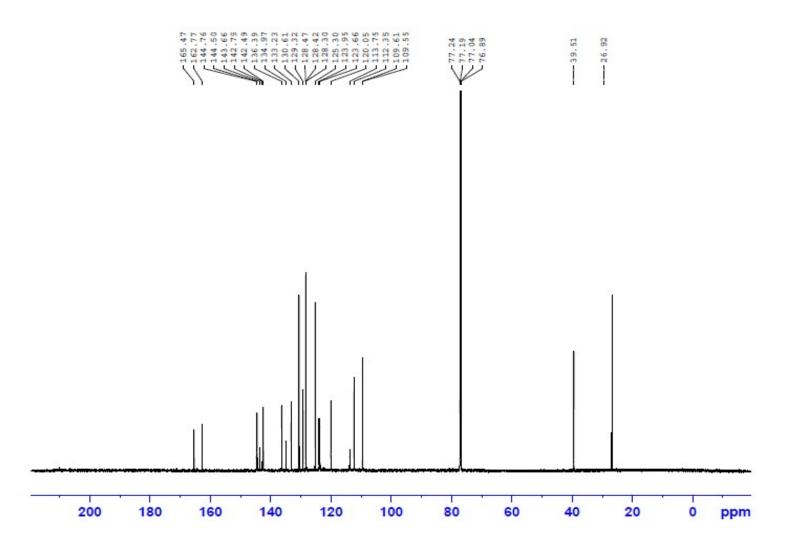
<sup>13</sup>C NMR of compound 7

Mahboob Sample 12 CDCL3

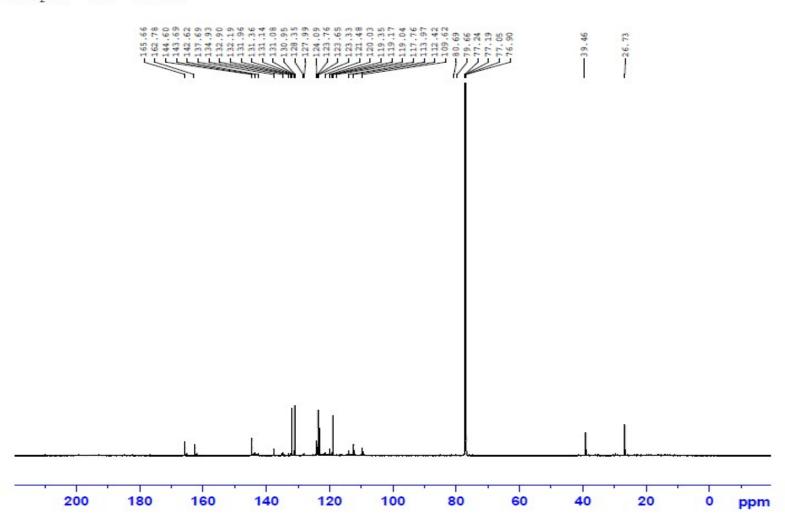


<sup>13</sup>C NMR of compound 8

Mahboob Sample 14 CDCL3

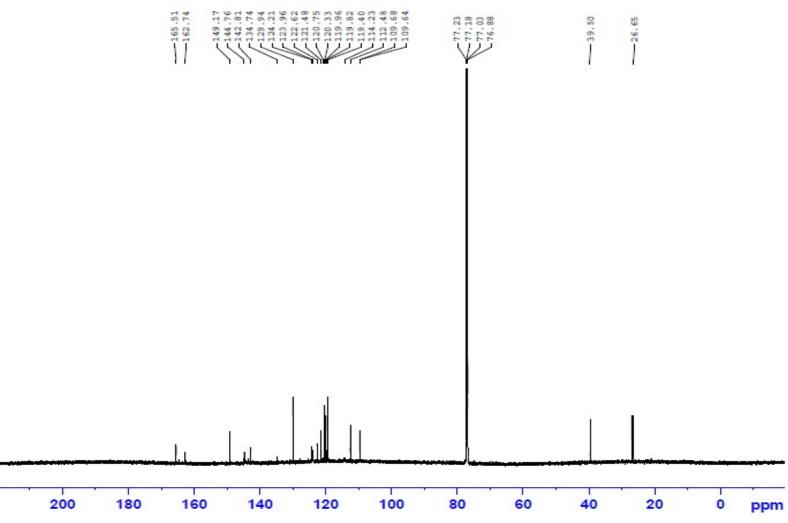


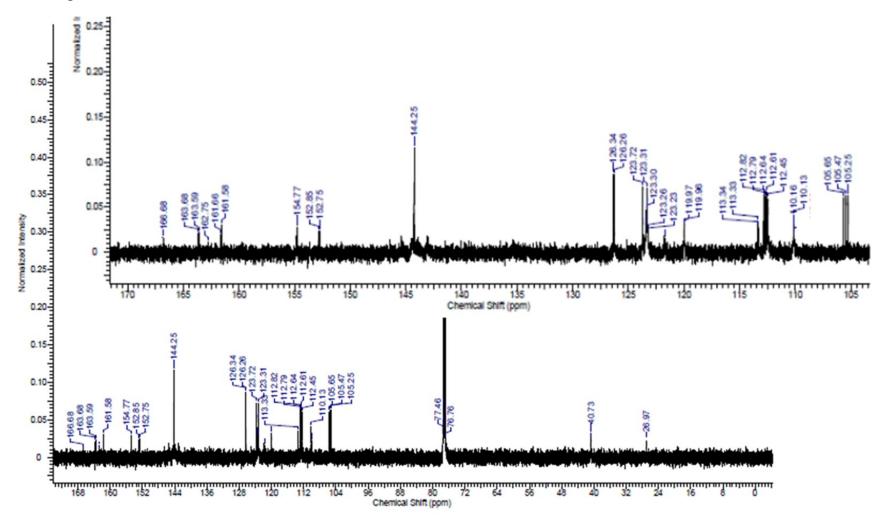




<sup>13</sup>C NMR of compound 10

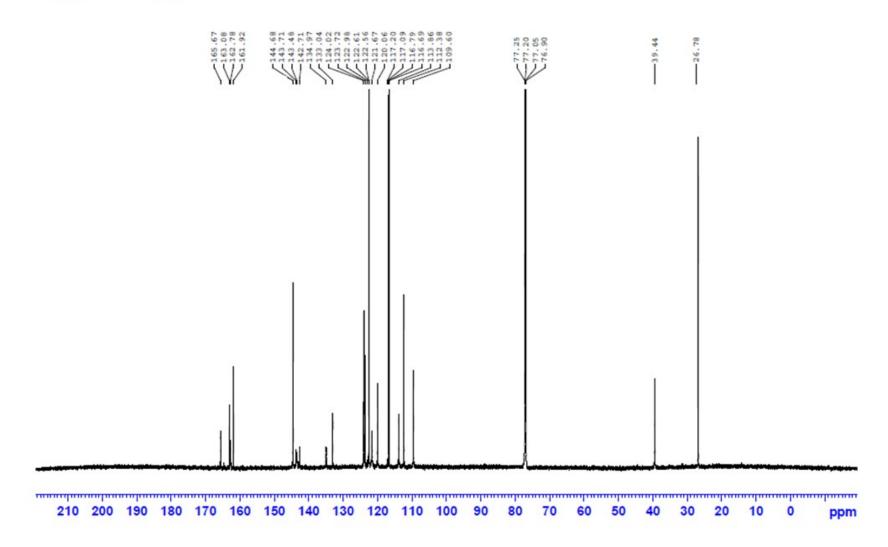


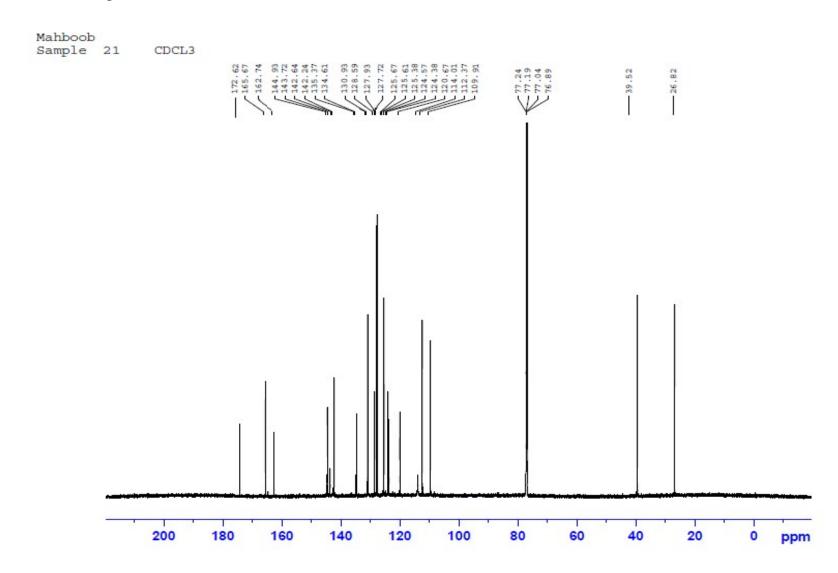




Manboob Sample

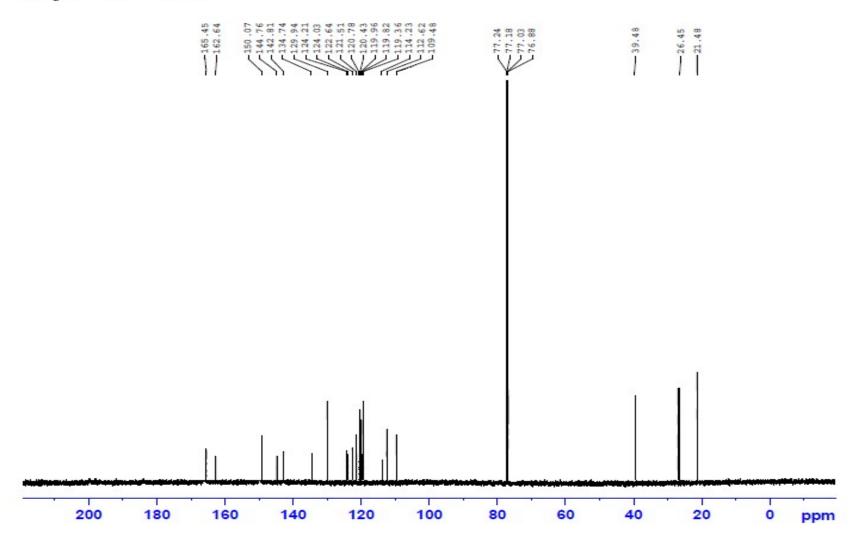
CDCL3





<sup>13</sup>C NMR of compound 14





Mahboob Sample

DMSO

