

Supplementary Material

Design, synthesis and characterization of azo group-containing flavonoid derivatives

Hadi Aqel Khdera,^{a*} Sawsan Youseff Saad,^a Aoula Moustapha,^b Farouk Kandil^c

^a Chemistry Department, Faculty of Sciences, Tishreen University, Lattakia, Syria

^b Department of Pharmacology and Toxicology. Faculty of Pharmacy, Al-Baath University, Homs, Syria

^c Chemistry Department, Faculty of Sciences, Damascus University, Damascus, Syria

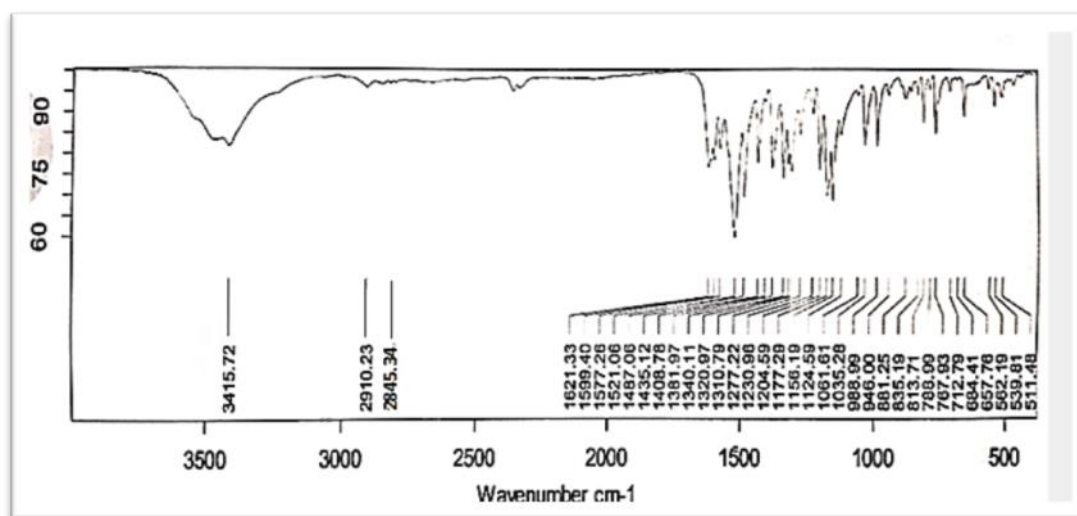
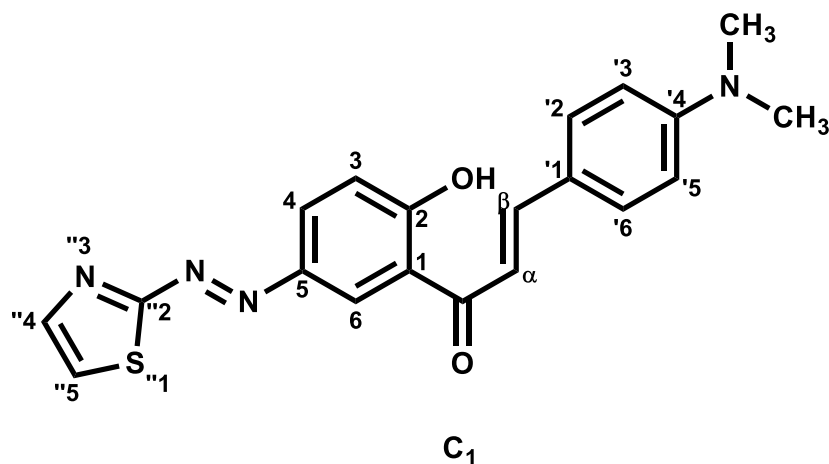
Email: hadiagelkhdera@gmail.com

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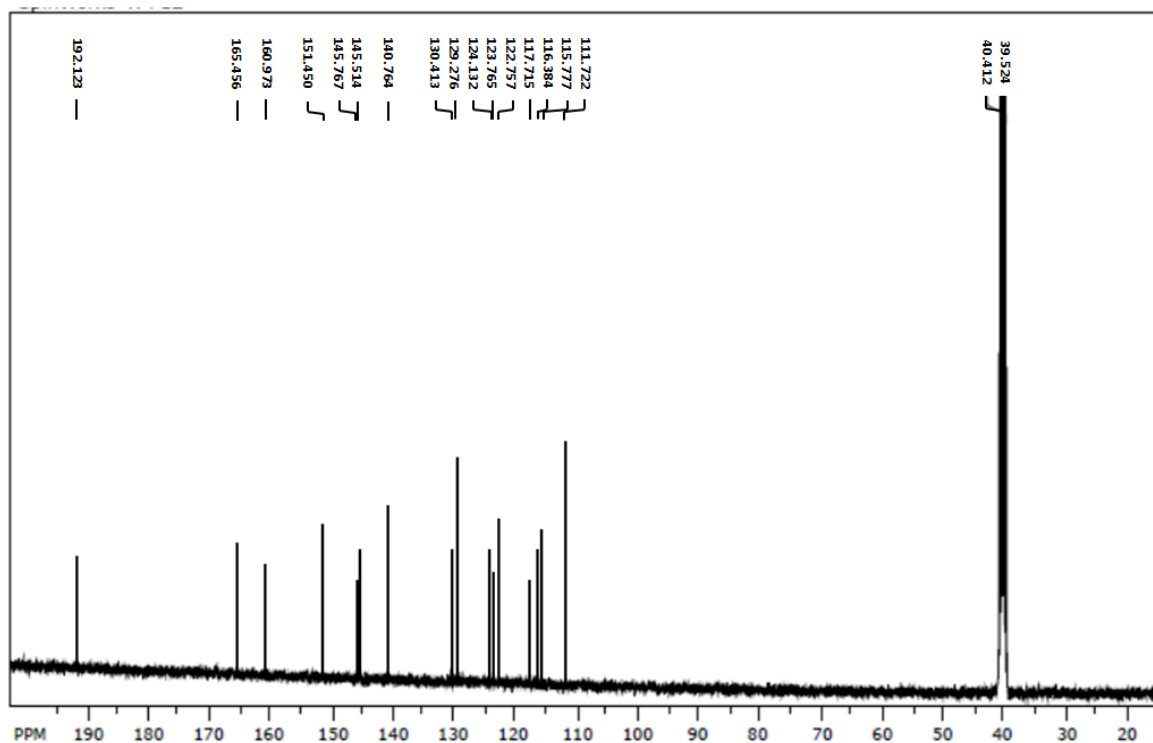
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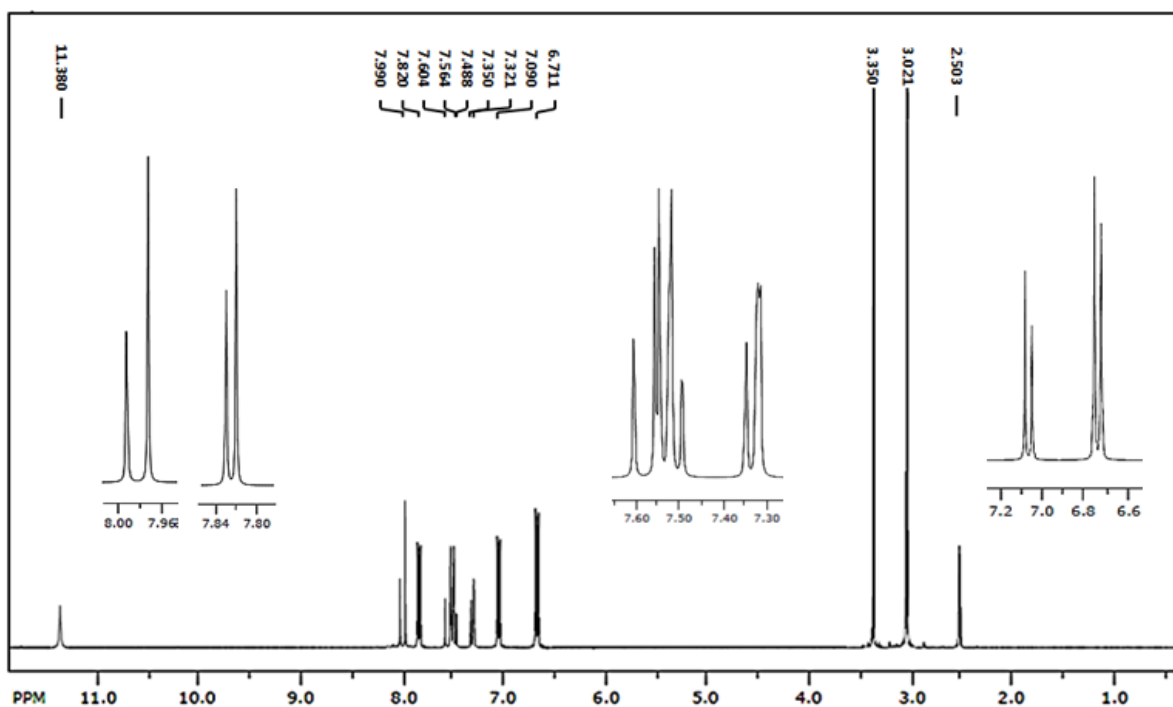
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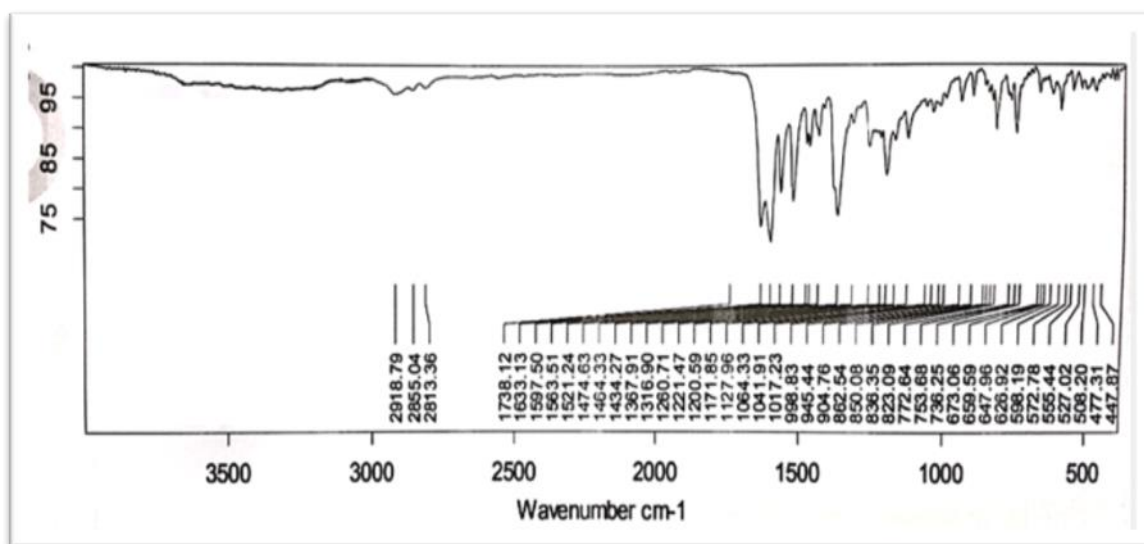
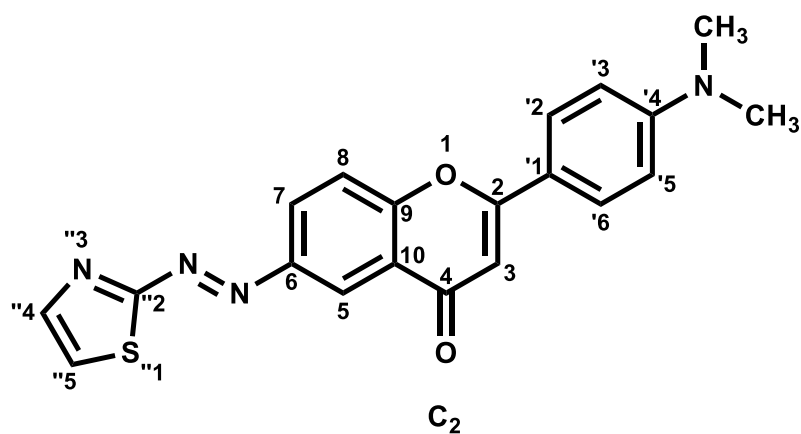
FT-IR Spectrum of (E)-3-(4-(dimethylamino)phenyl)-1-(2-hydroxy-5-((E)-thiazol-2-ylidiazenyl)phenyl)prop-2-en-1-one (C_1)



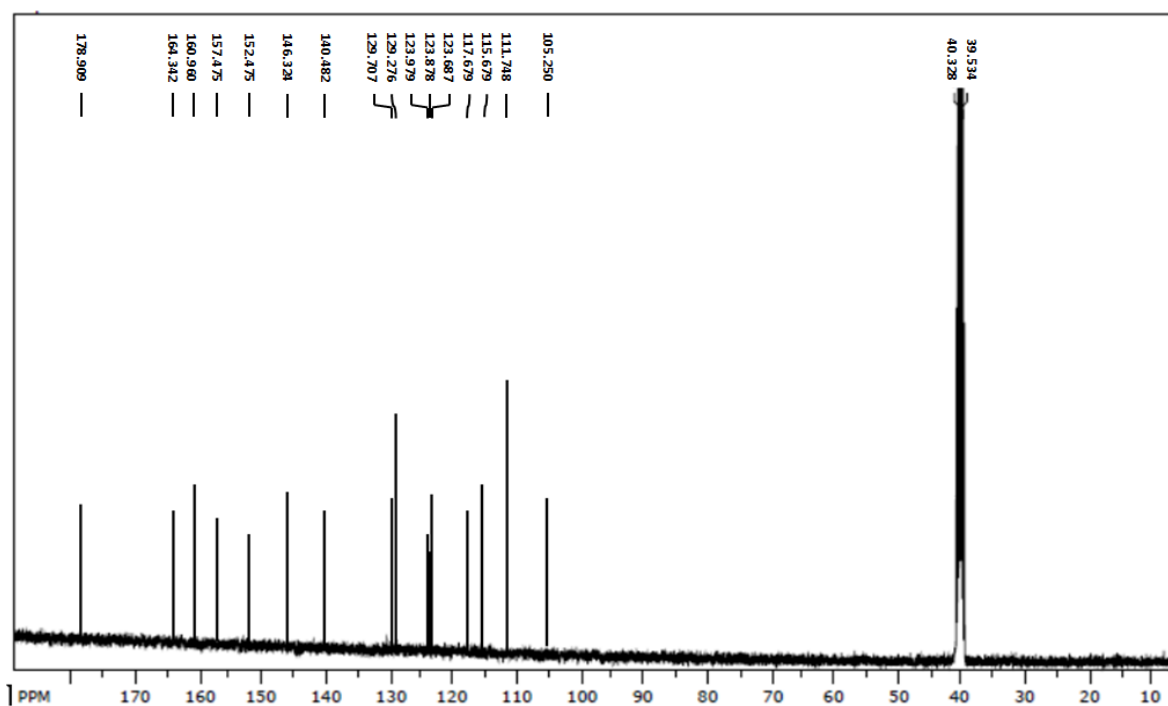
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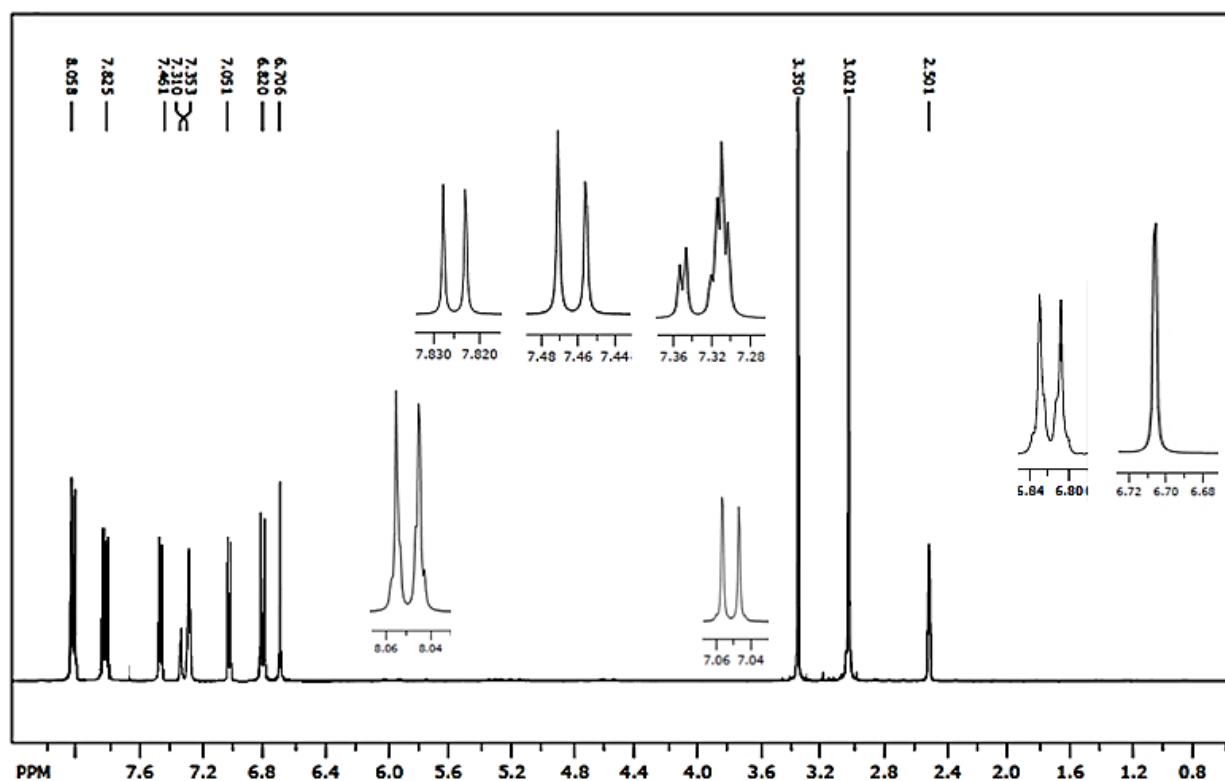
¹H-NMR Spectrum of (E)-3-(4-(dimethylamino)phenyl)-1-(2-hydroxy-5-((E)-thiazol-2-ylidiazenyl)phenyl)prop-2-en-1-one (C₁)



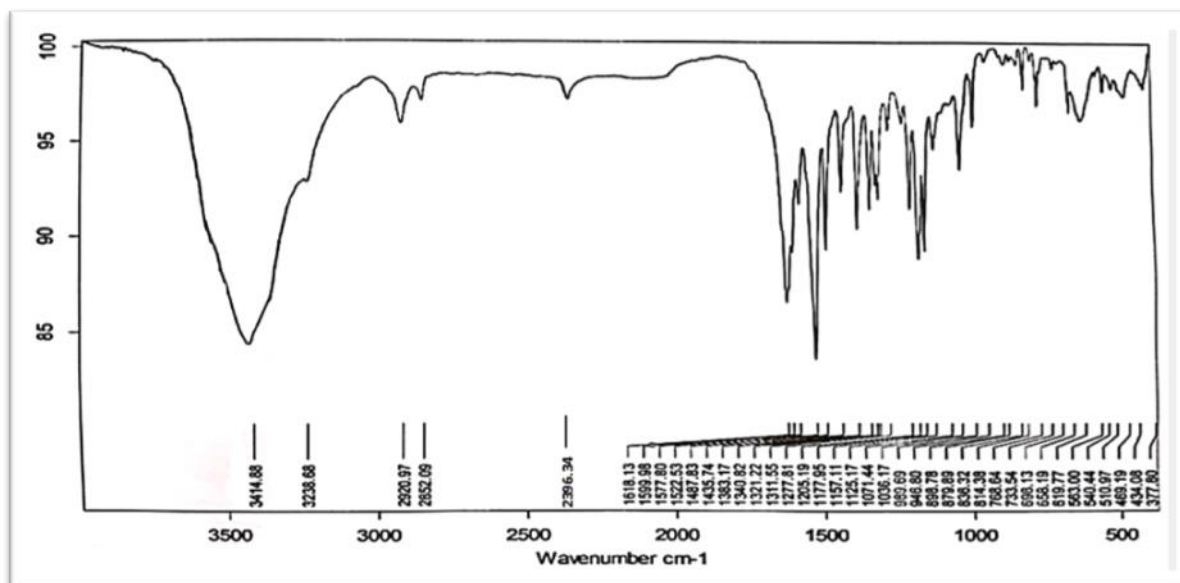
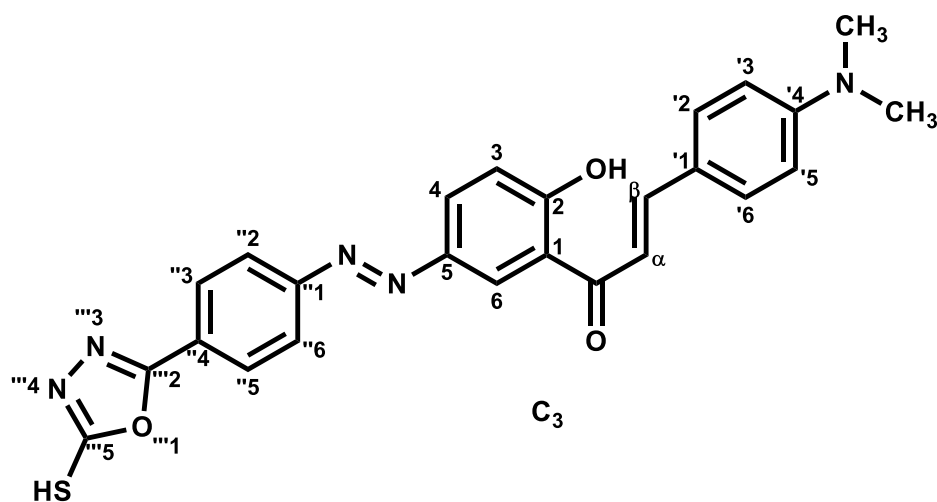
FT-IR Spectrum of (*E*)-2-(4-(dimethylamino)phenyl)-6-(thiazol-2-yl-diazenyl)-4H-chromen-4-one (C_2)



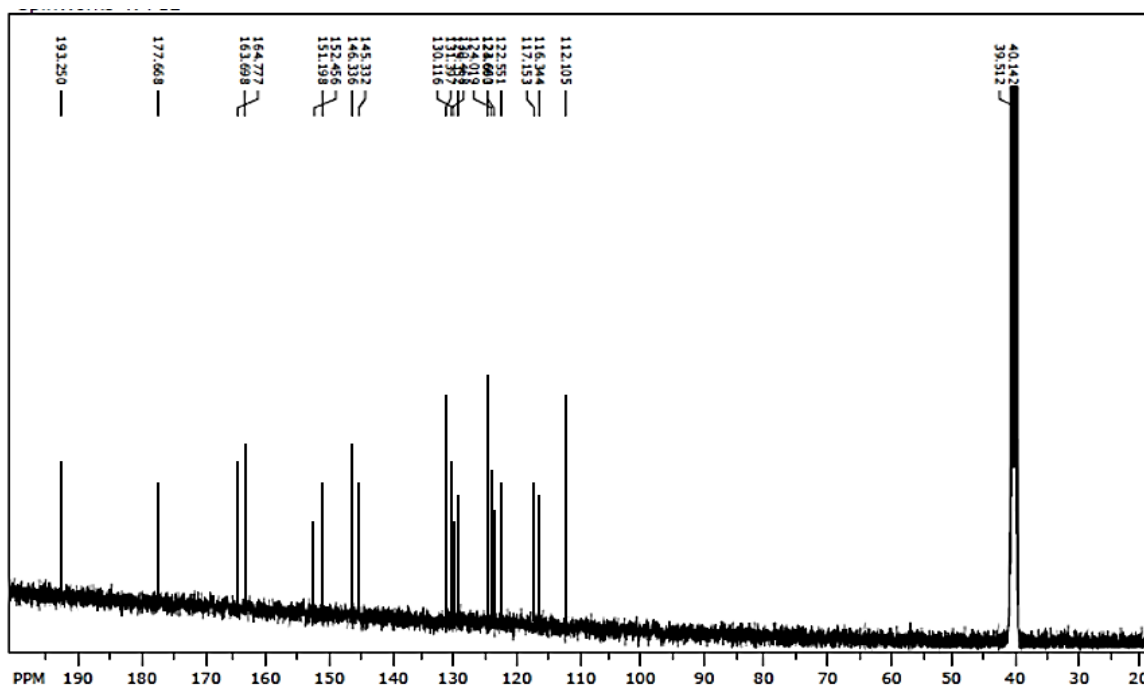
¹³C-NMR Spectrum of (E)-2-(4-(dimethylamino)phenyl)-6-(thiazol-2-yl-diazenyl)-4H-chromen-4-one (C₂)



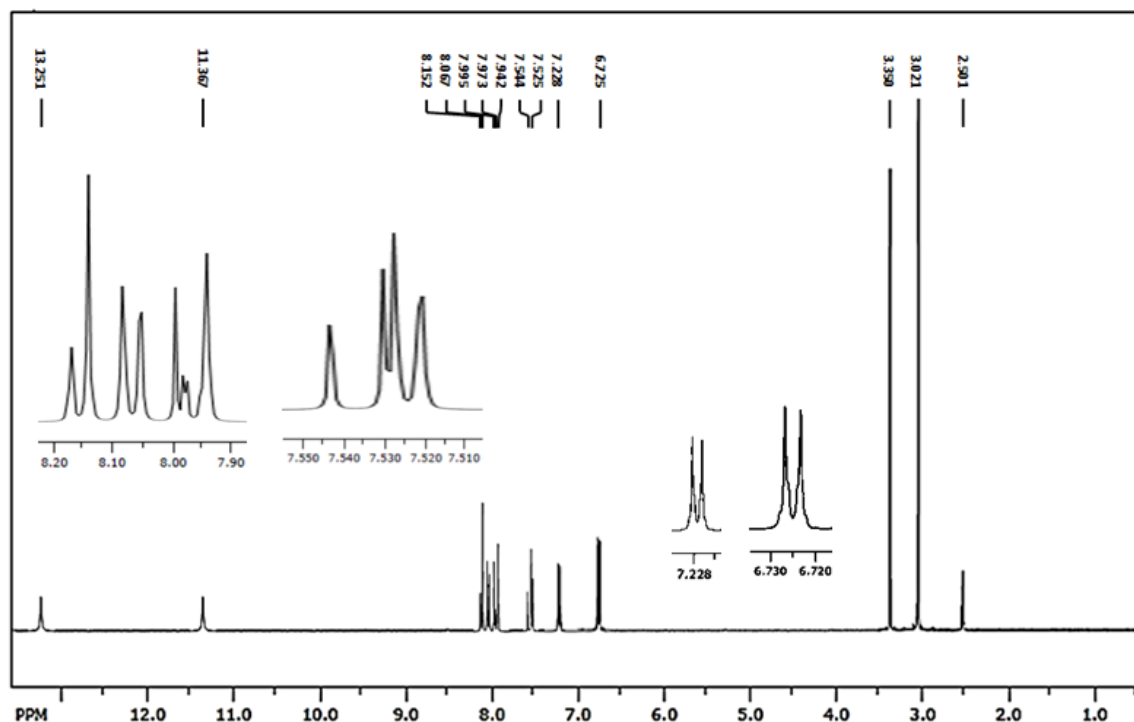
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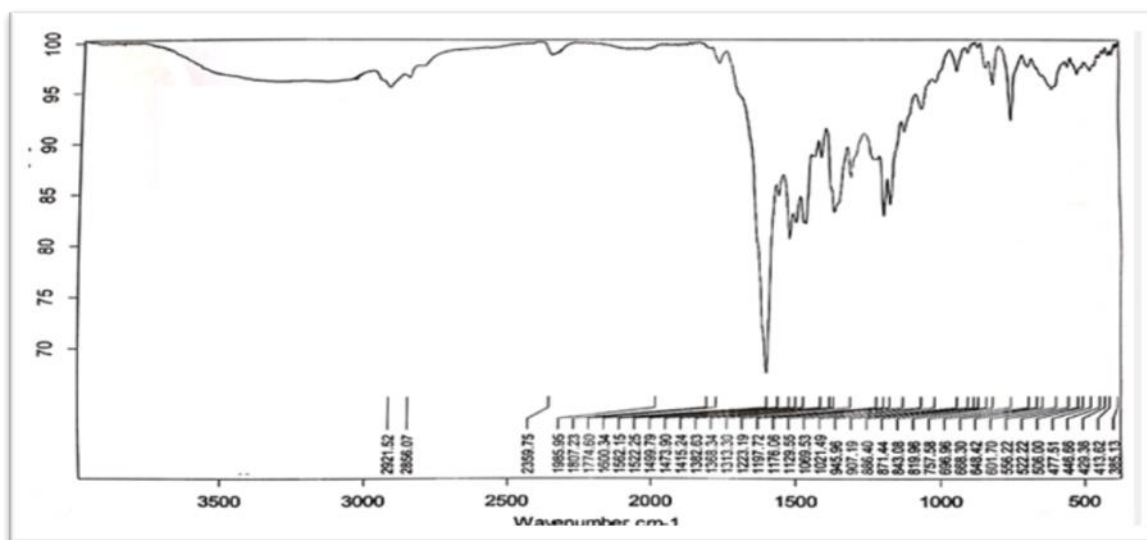
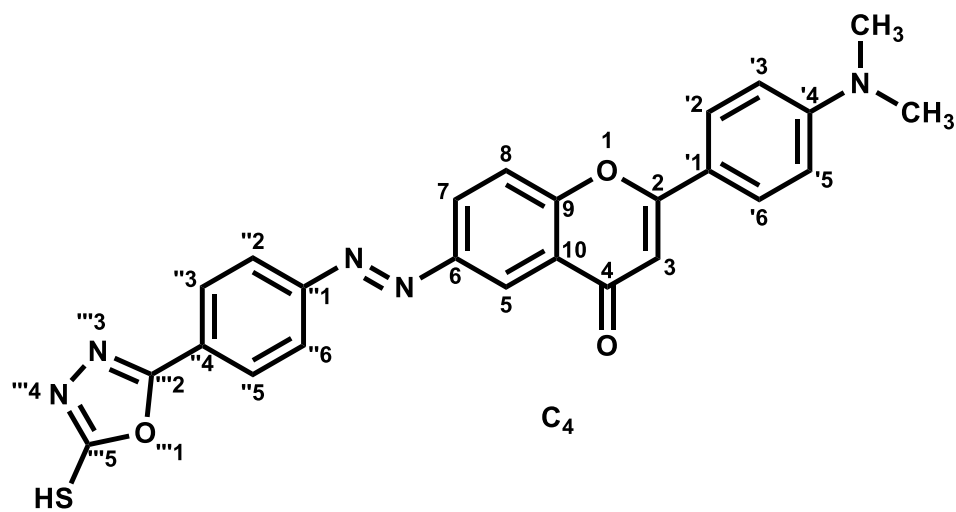
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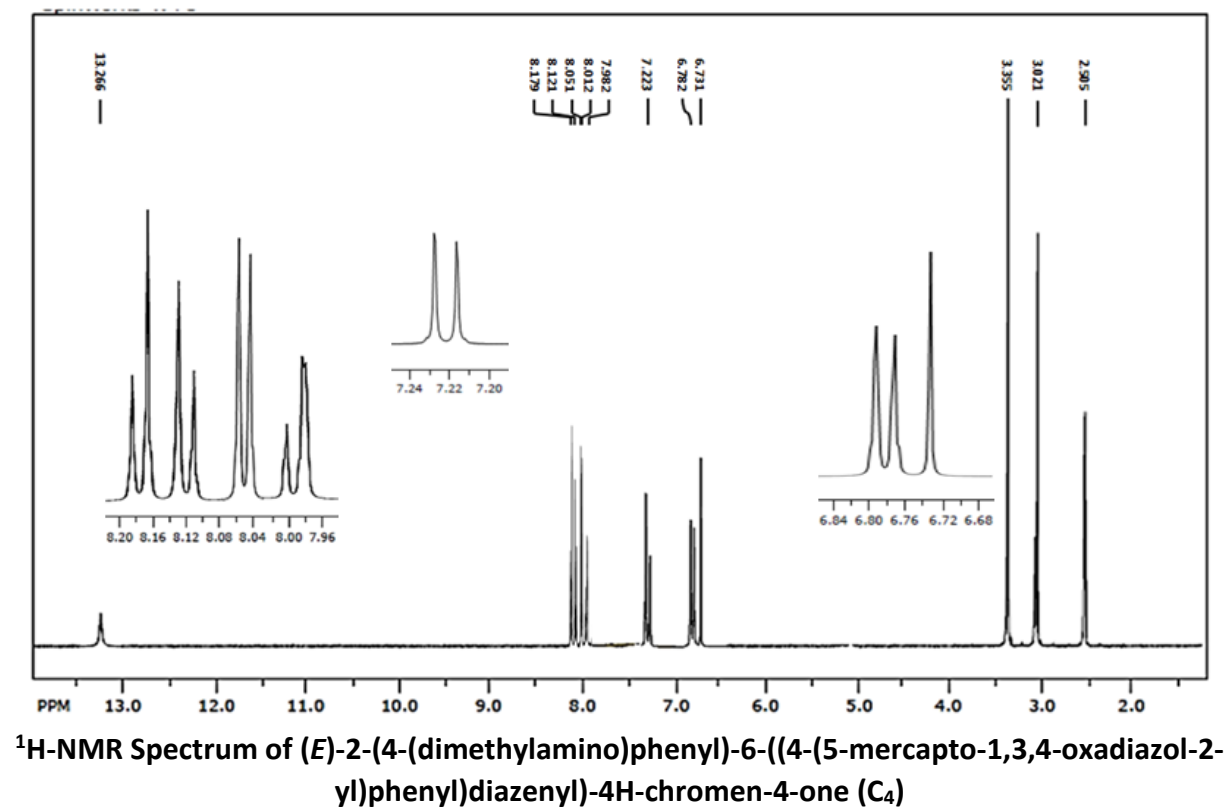
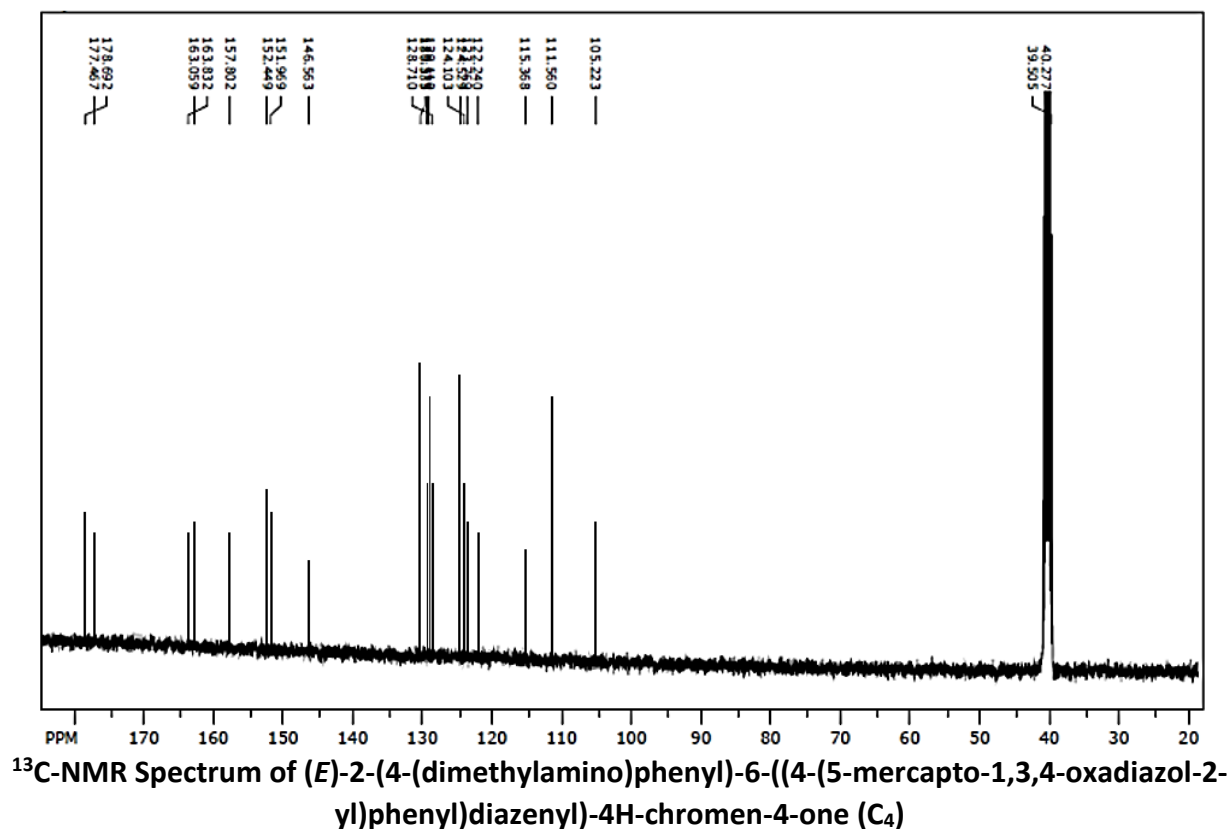
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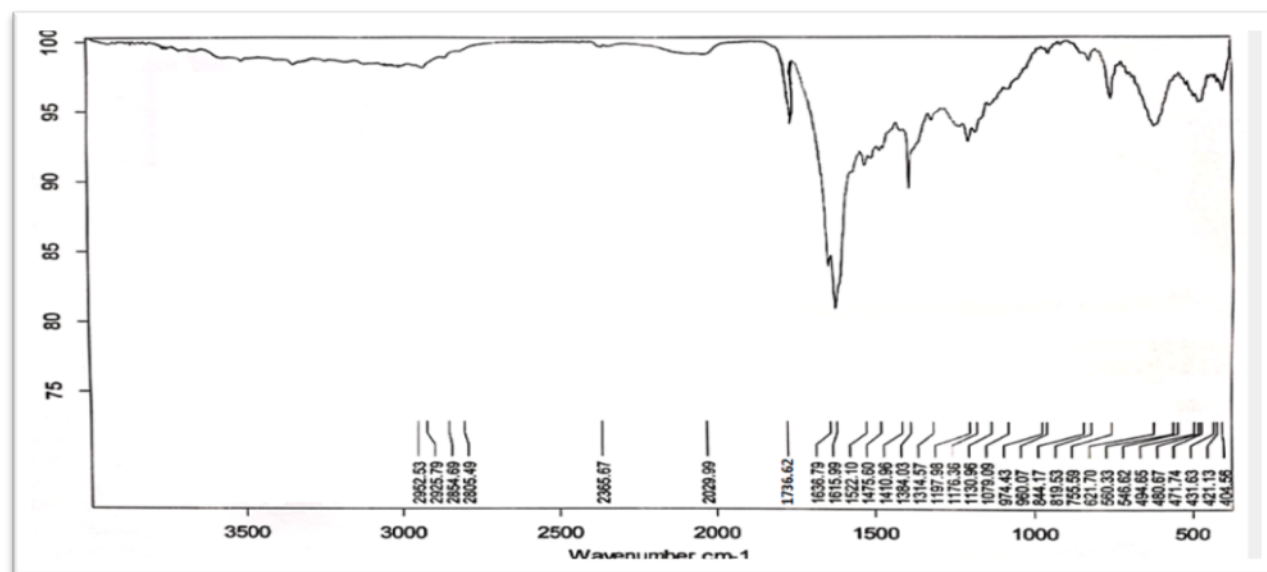
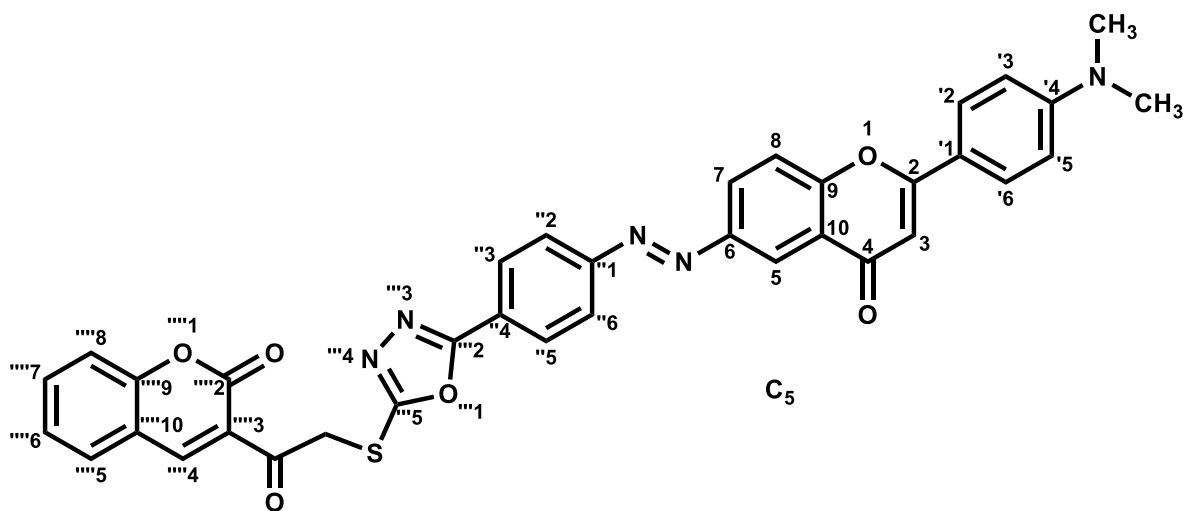


¹H-NMR Spectrum of (*E*)-3-(4-(dimethylamino)phenyl)-1-(2-hydroxy-5-((*E*)-(4-(5-mercapto-1,3,4-oxadiazol-2-yl)phenyl)diazenyl)phenyl)prop-2-en-1-one (C₃)

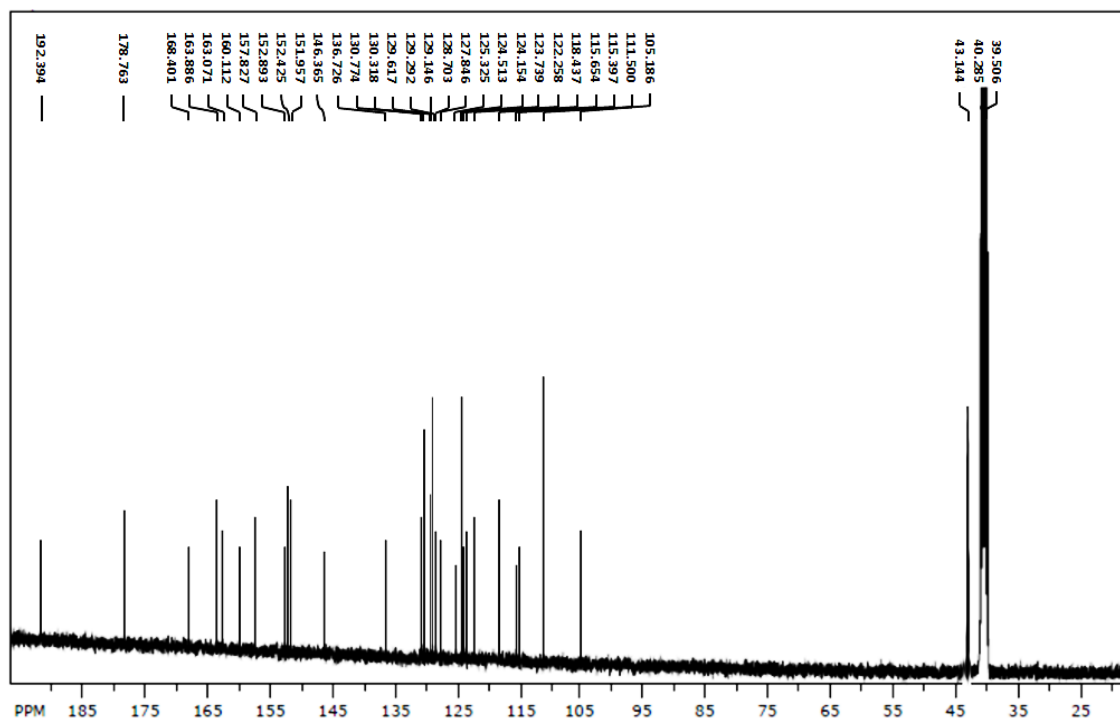


FT-IR Spectrum of (*E*)-2-(4-(dimethylamino)phenyl)-6-((4-(5-mercapto-1,3,4-oxadiazol-2-yl)phenyl)diazenyl)-4H-chromen-4-one (C_4)

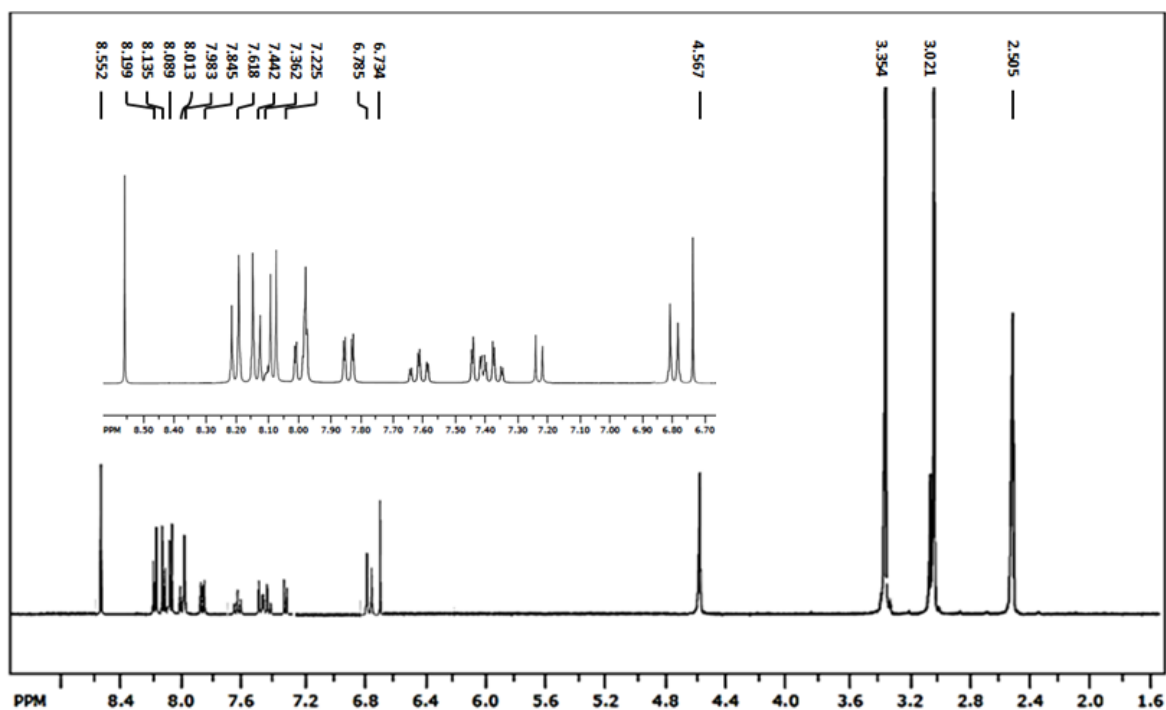




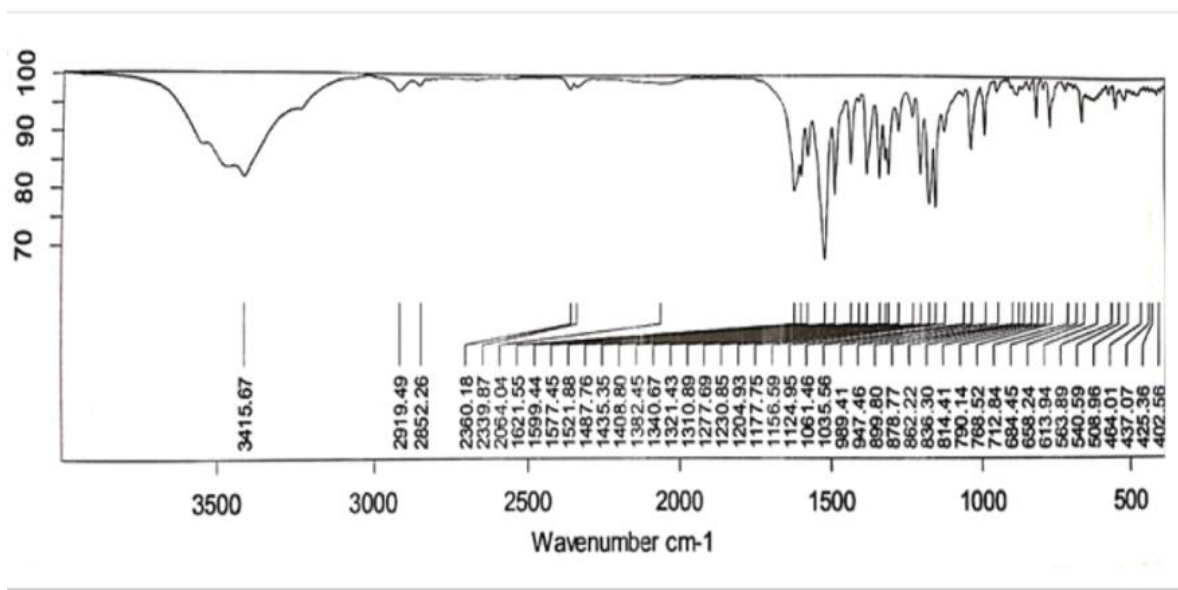
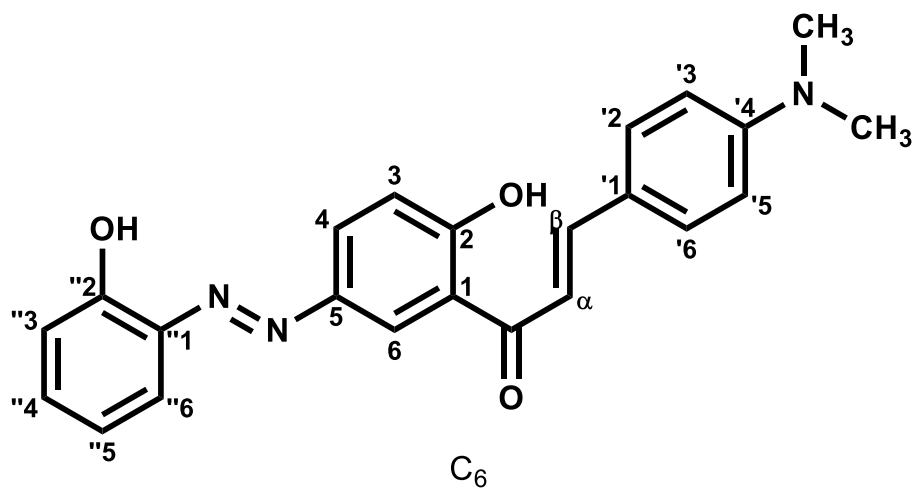
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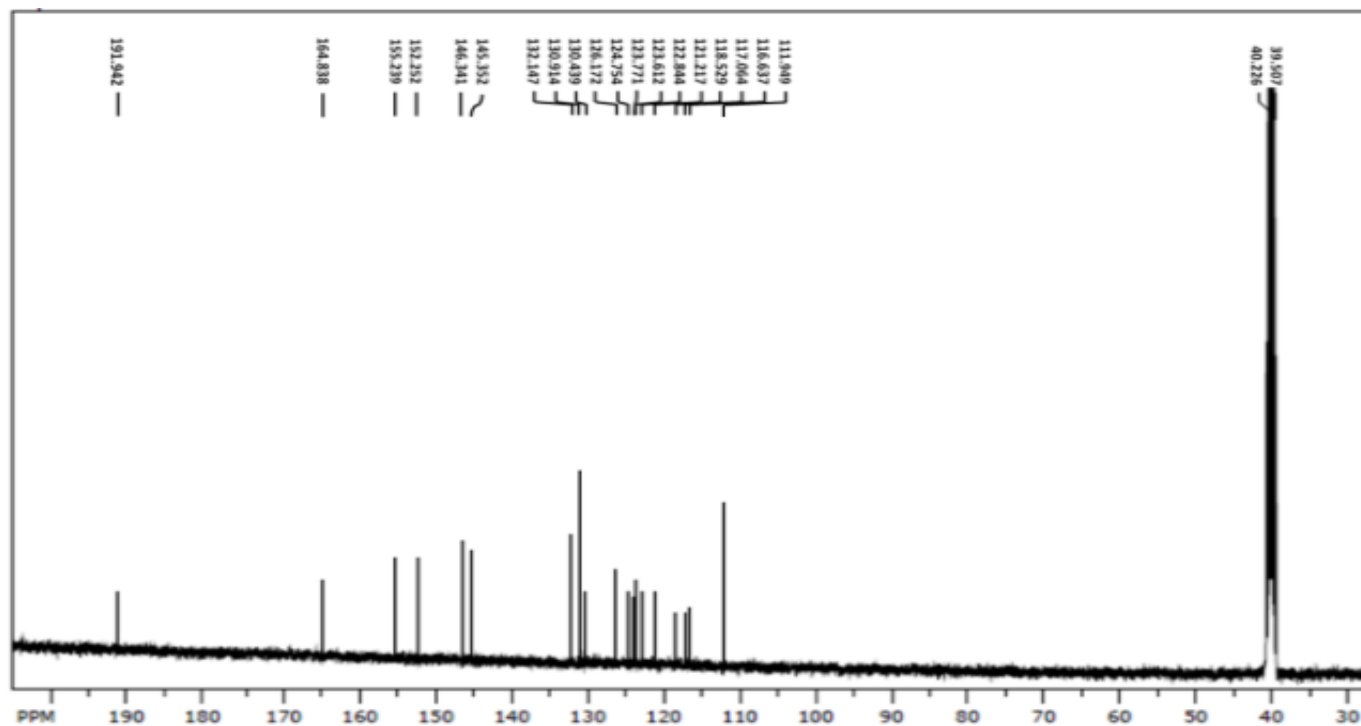
¹³C-NMR Spectrum of (E)-3-(2-((5-(4-((2-(4-(dimethylamino) phenyl)-4-oxo-4H-chromen-6-yl)diazenyl)phenyl)-1,3,4-oxadiazol-2-yl)thio)acetyl)-2H-chromen-2-one (C₅)



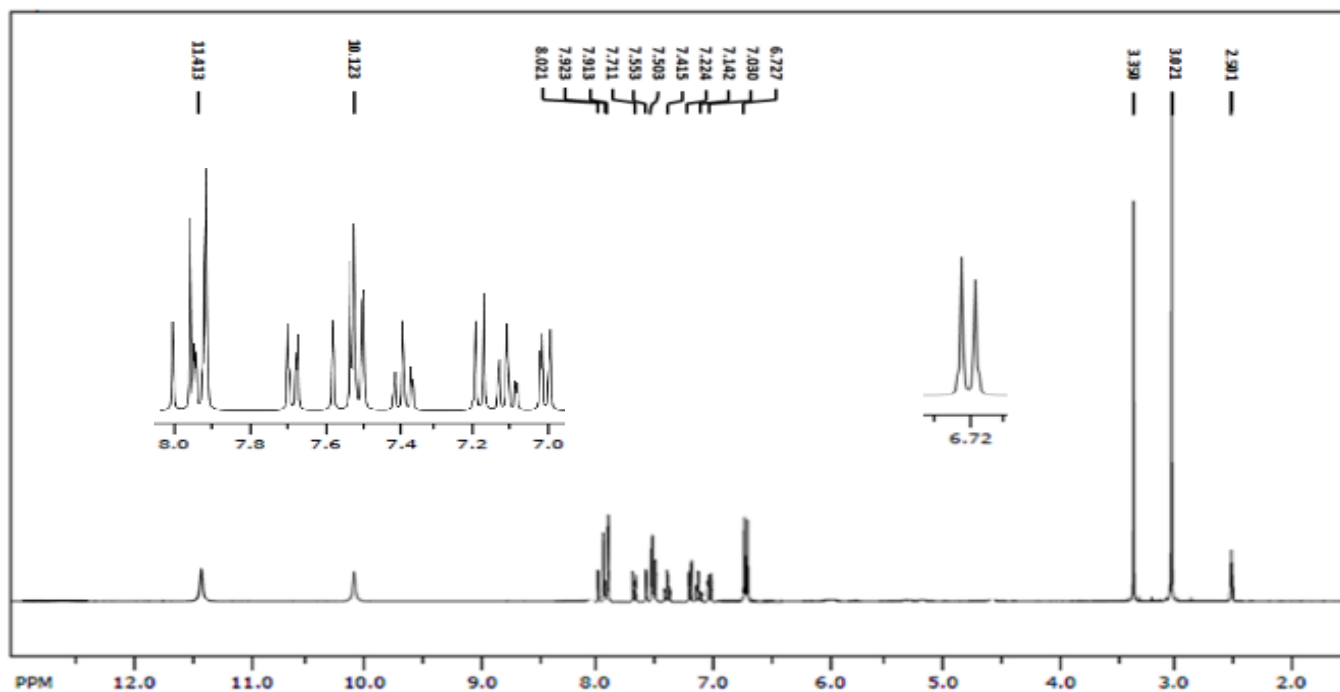
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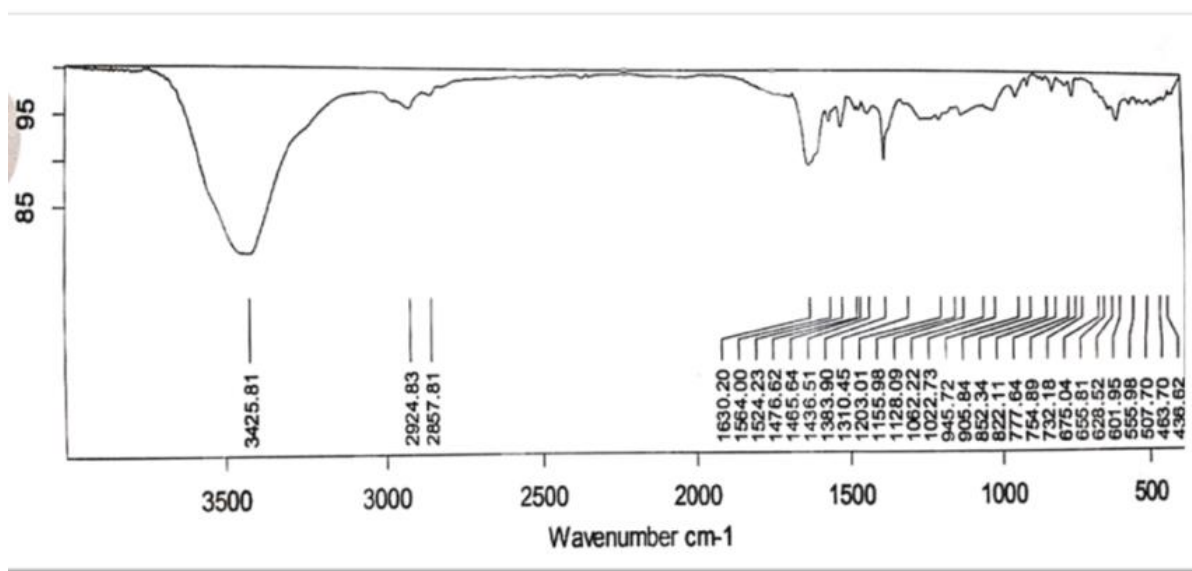
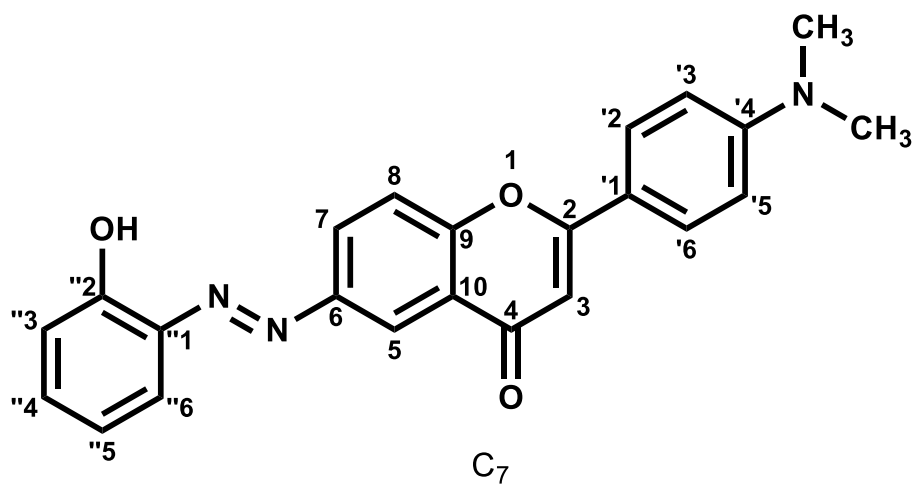
FT-IR Spectrum of (E)-3-(4-(dimethylamino)phenyl)-1-(2-hydroxy-5-((E)-(2-hydroxyphenyl) diazenyl)phenyl)prop-2-en-1-one (C_6)



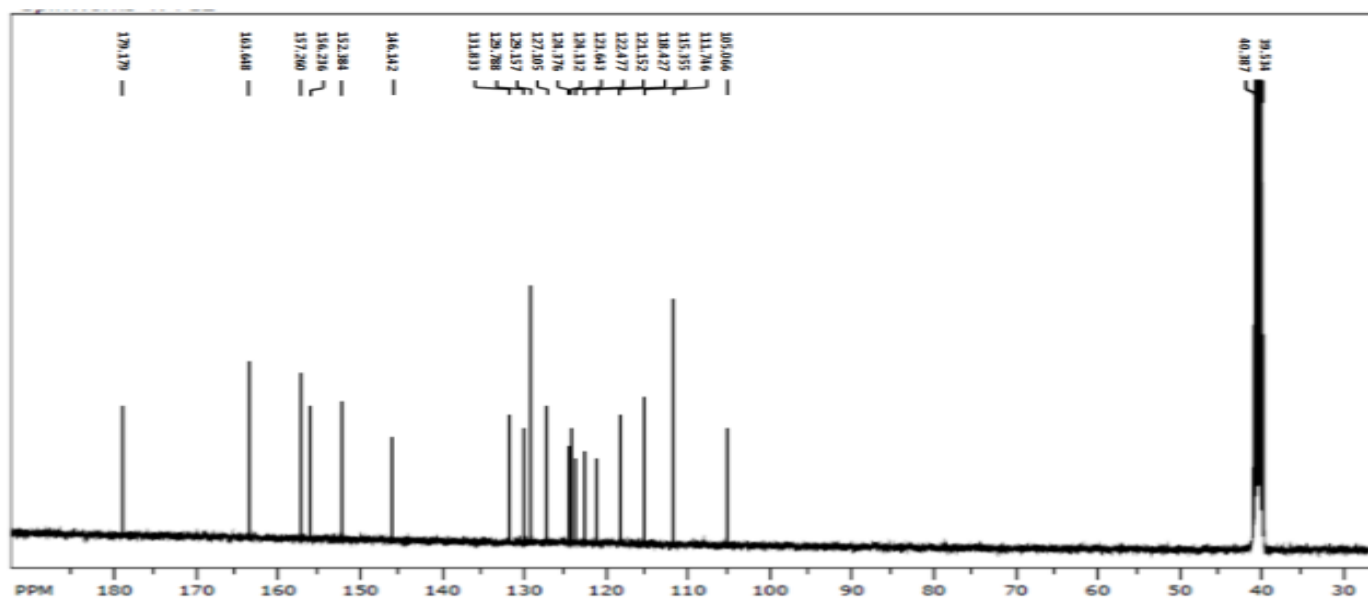
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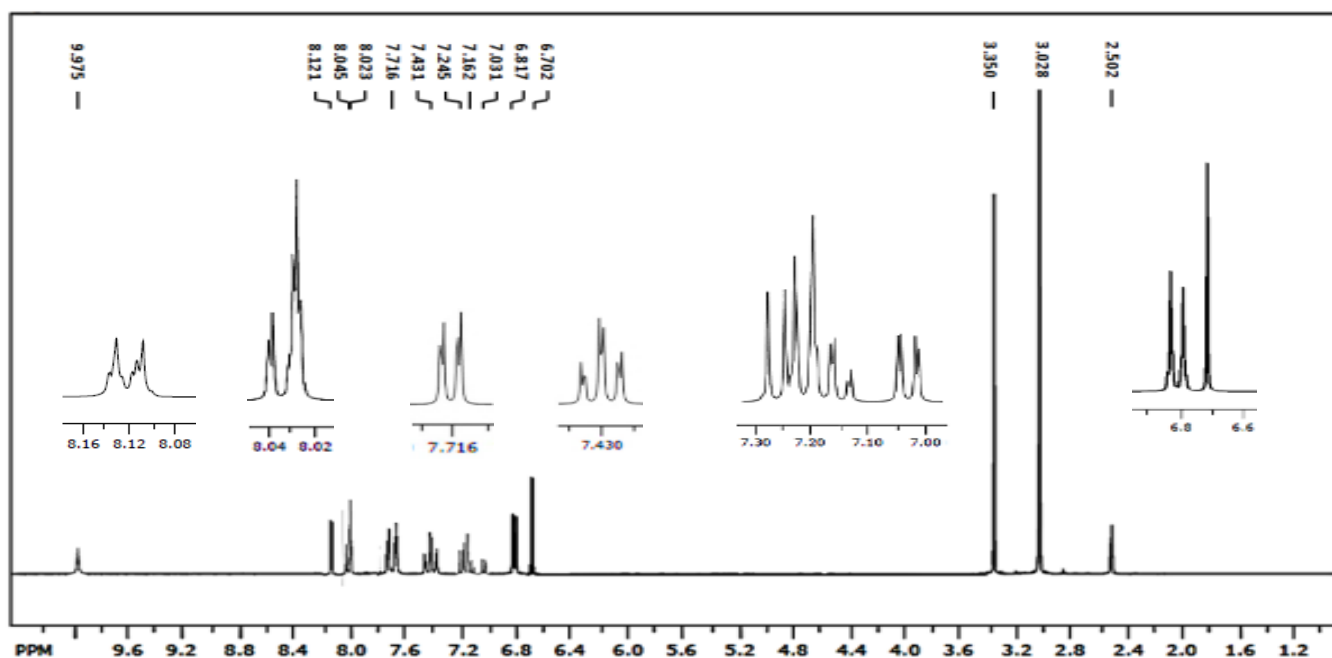
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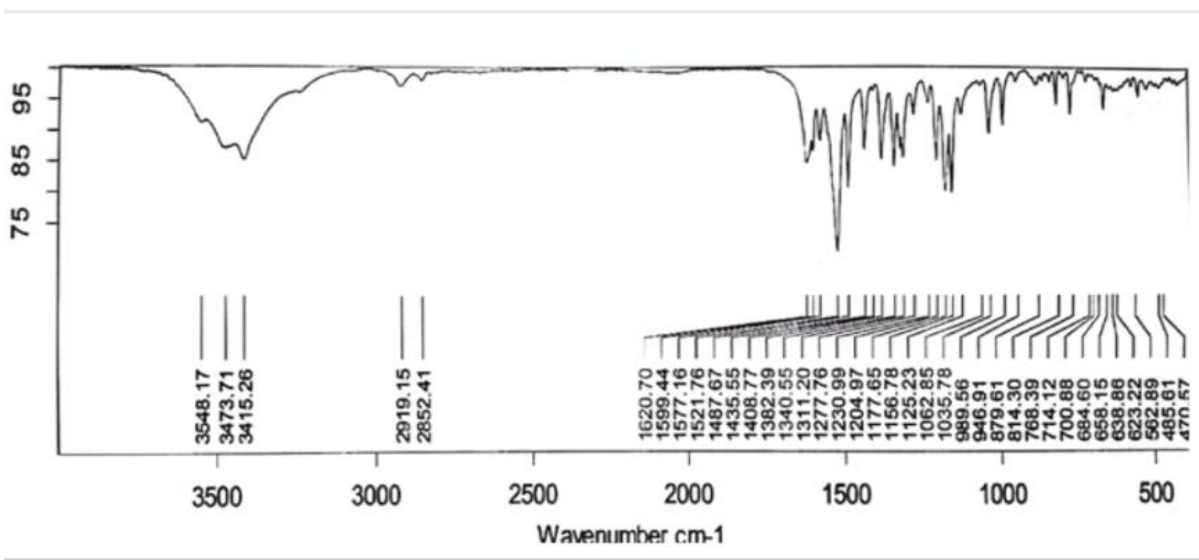
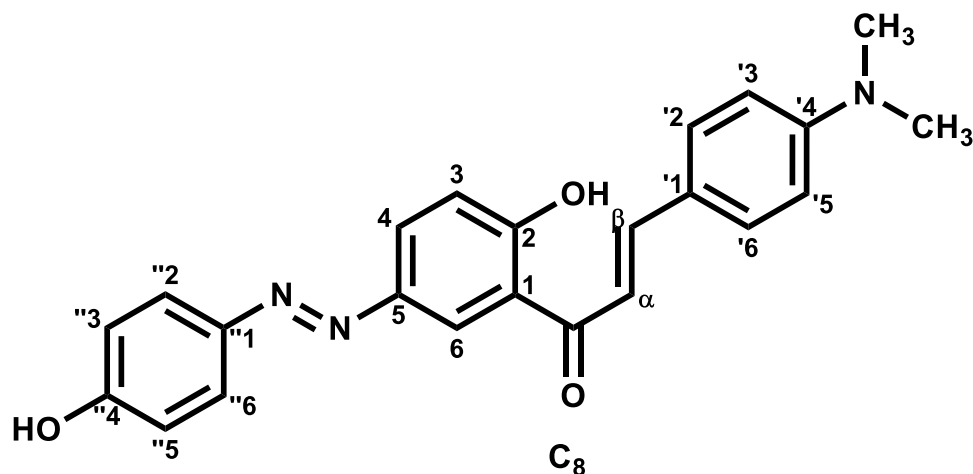
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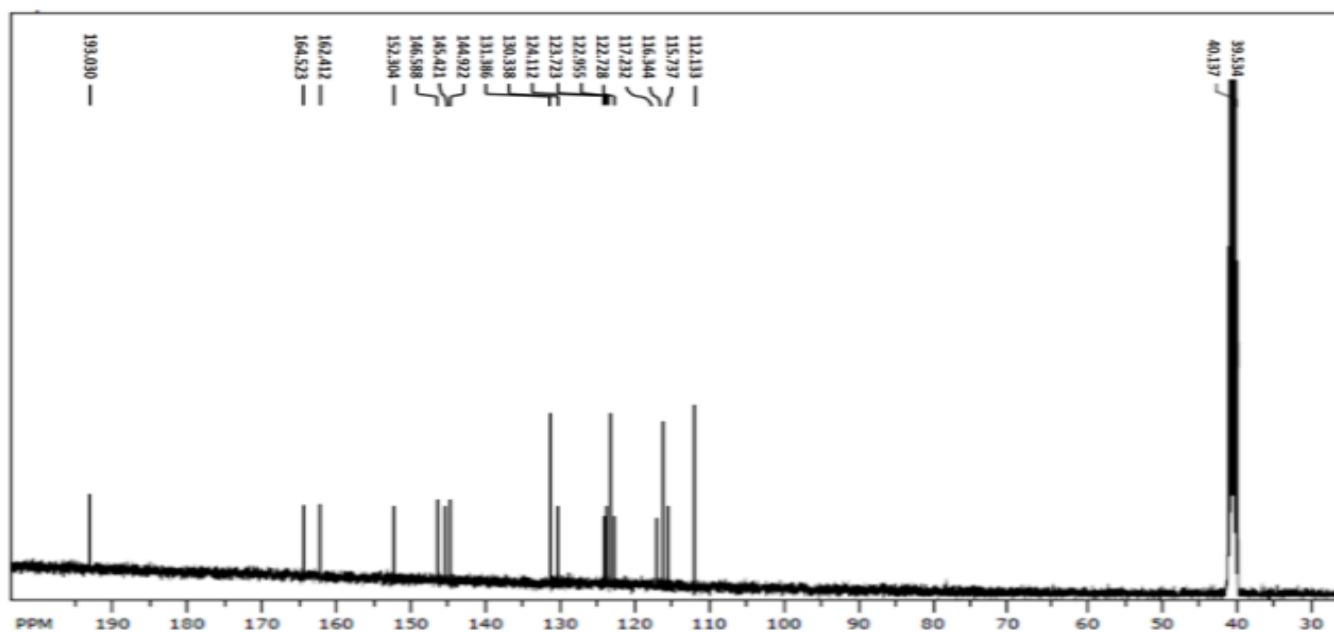
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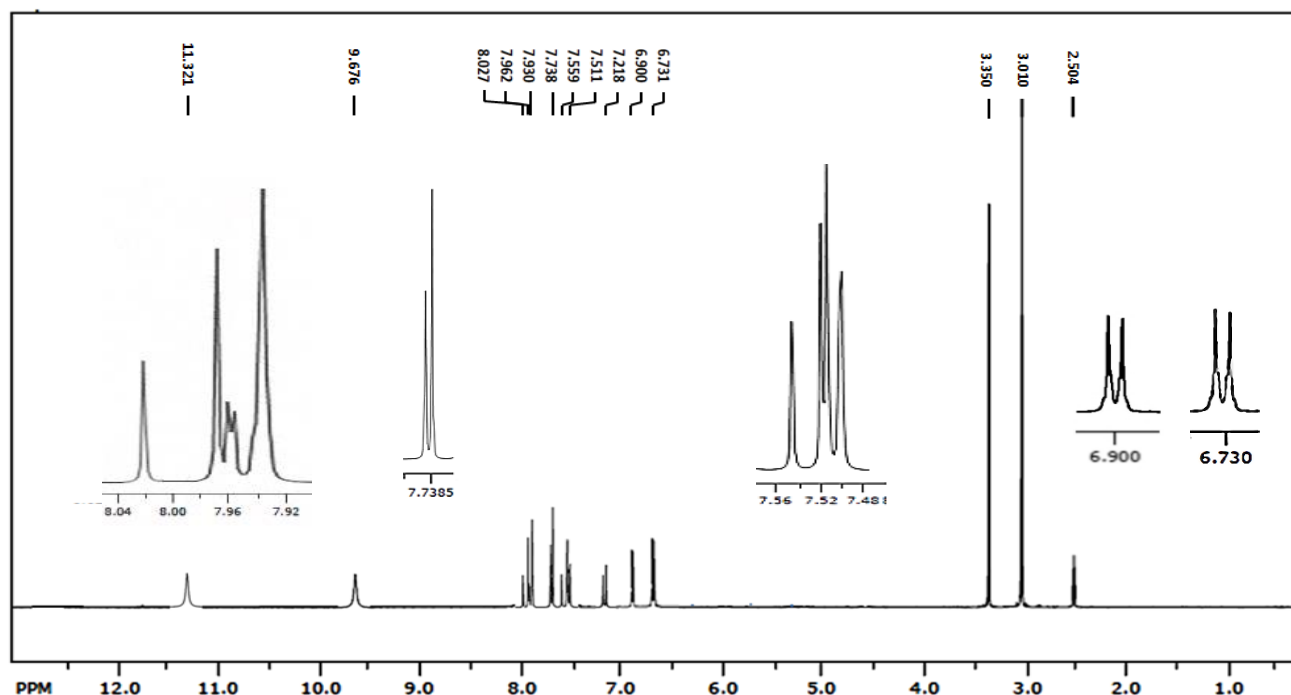
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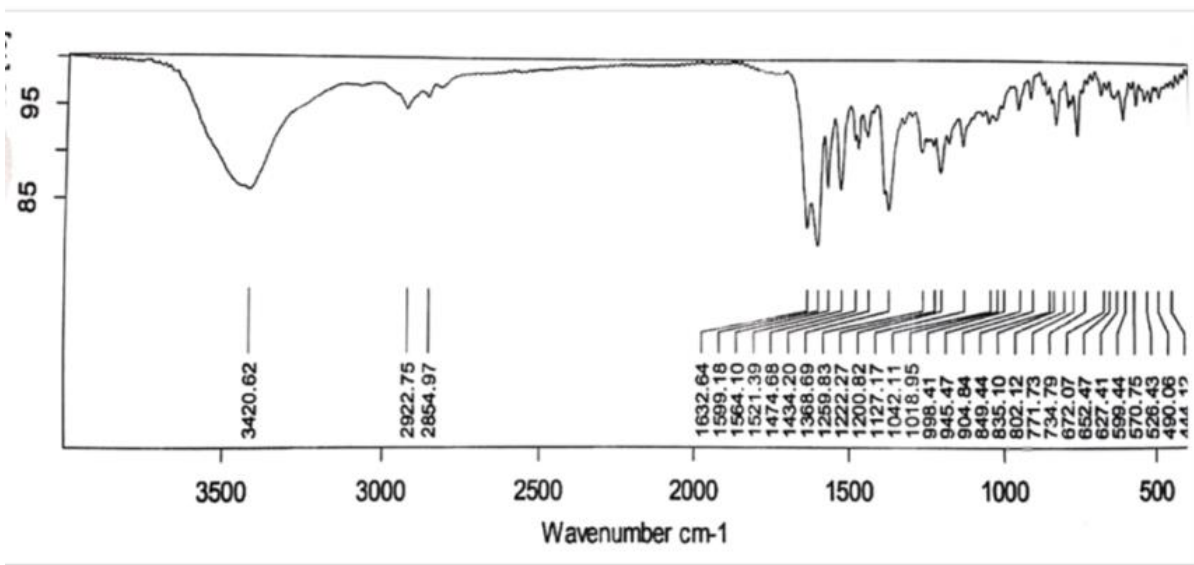
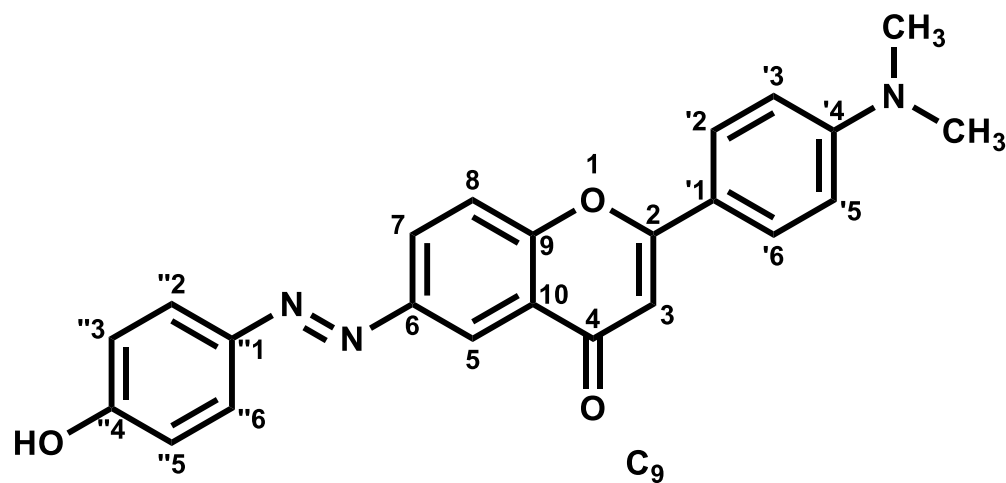
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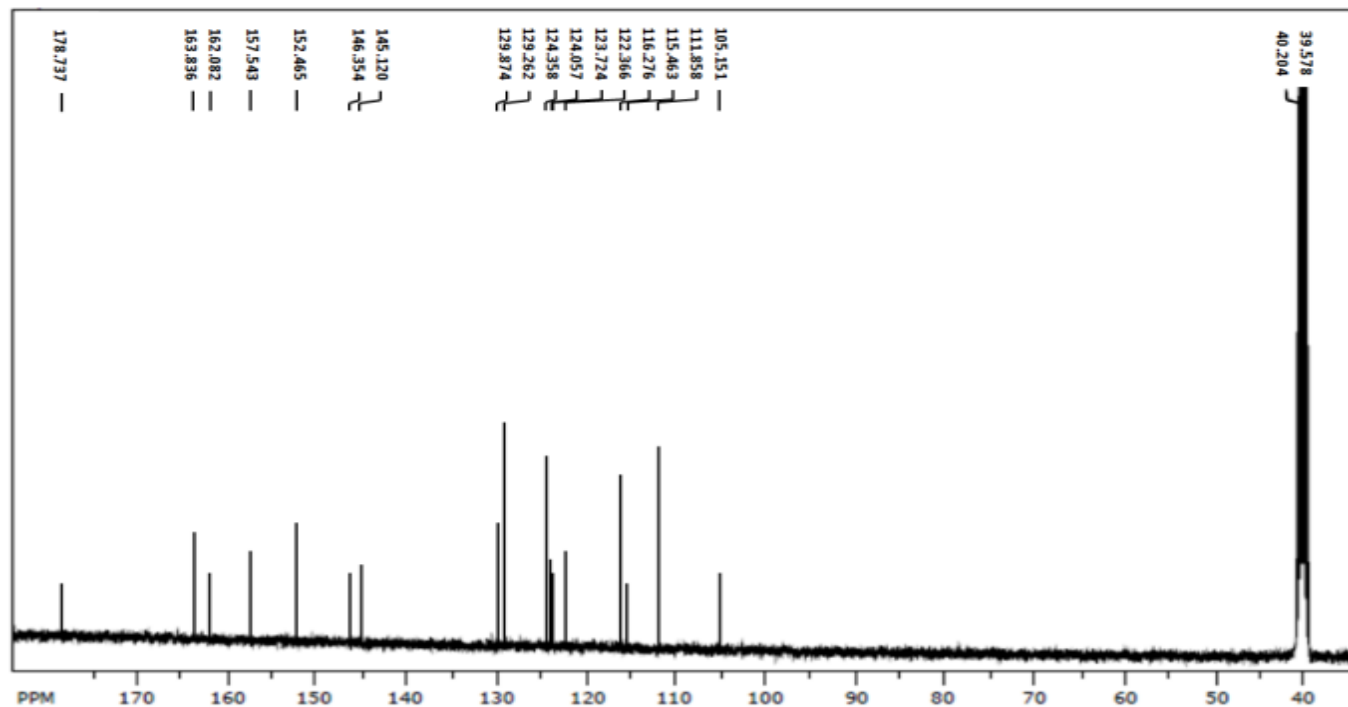
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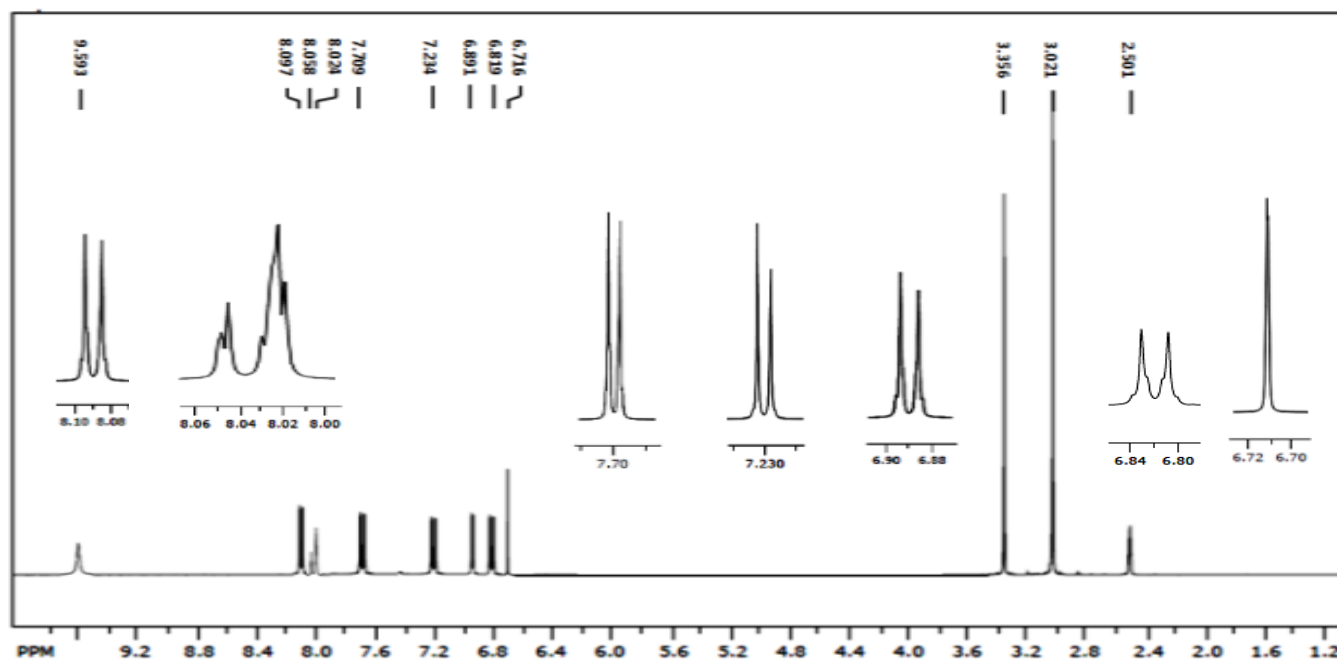
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FT-IR Spectrum of Synthesis of (E)-2-(4-(dimethylamino)phenyl)-6-((4-hydroxyphenyl)diazenyl)-4H-chromen-4-one (C_9)



¹³C-NMR Spectrum of Synthesis of (E)-2-(4-(dimethylamino)phenyl)-6-((4-hydroxyphenyl)diazenyl)-4H-chromen-4-one (C₉)



¹H-NMR Spectrum of Synthesis of (E)-2-(4-(dimethylamino)phenyl)-6-((4-hydroxyphenyl)diazenyl)-4H-chromen-4-one (C₉)

Synthetic Flavonoids Colors

**C₃****C₂****C₁****C₅****C₄****C₈****C₆****C₉****C₇**