

Supplementary Material

One pot-like regiospecific access to 1-aryl-1*H*-pyrazol-3(2*H*)-one derivatives and evaluation of the anticancer activity

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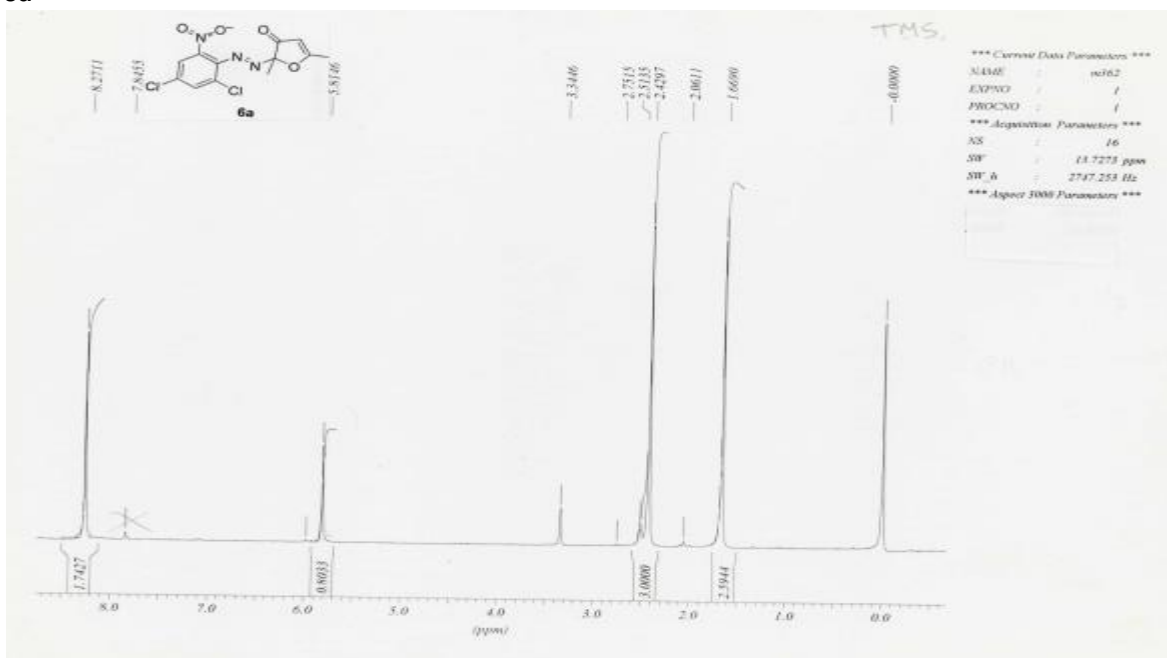
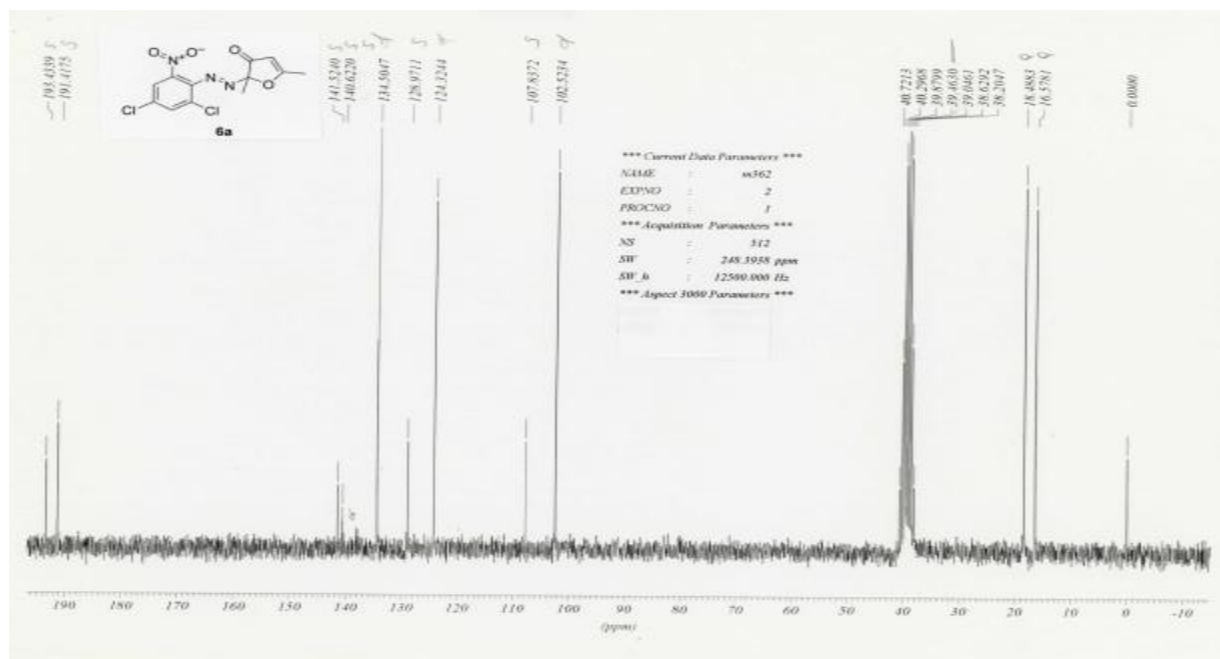
^b*Dipartimento di Scienze e Tecnologie Biologiche Chimiche e Farmaceutiche, Università di Palermo, Italy*

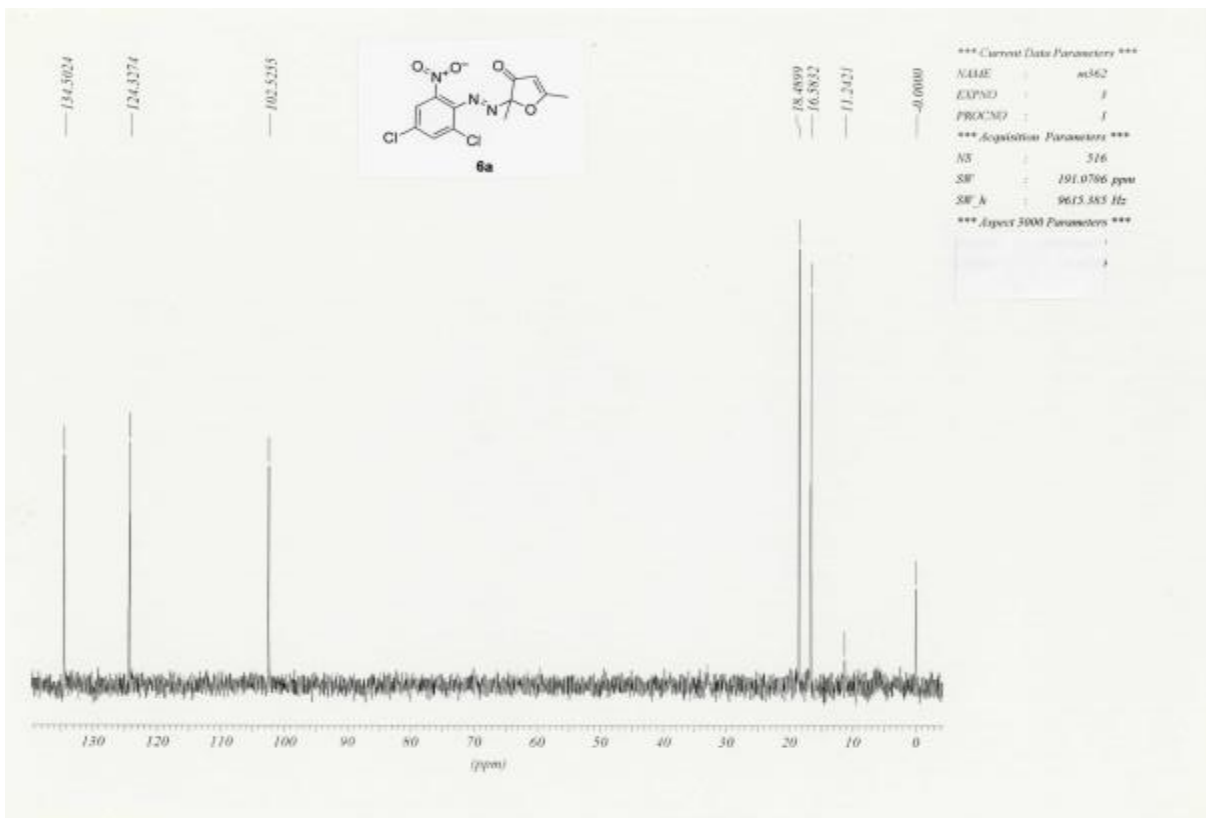
Email: francesco.mingoia@ismn.cnr.it

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¹ H, ¹³ C NMR and FT/IR spectra.....	S2
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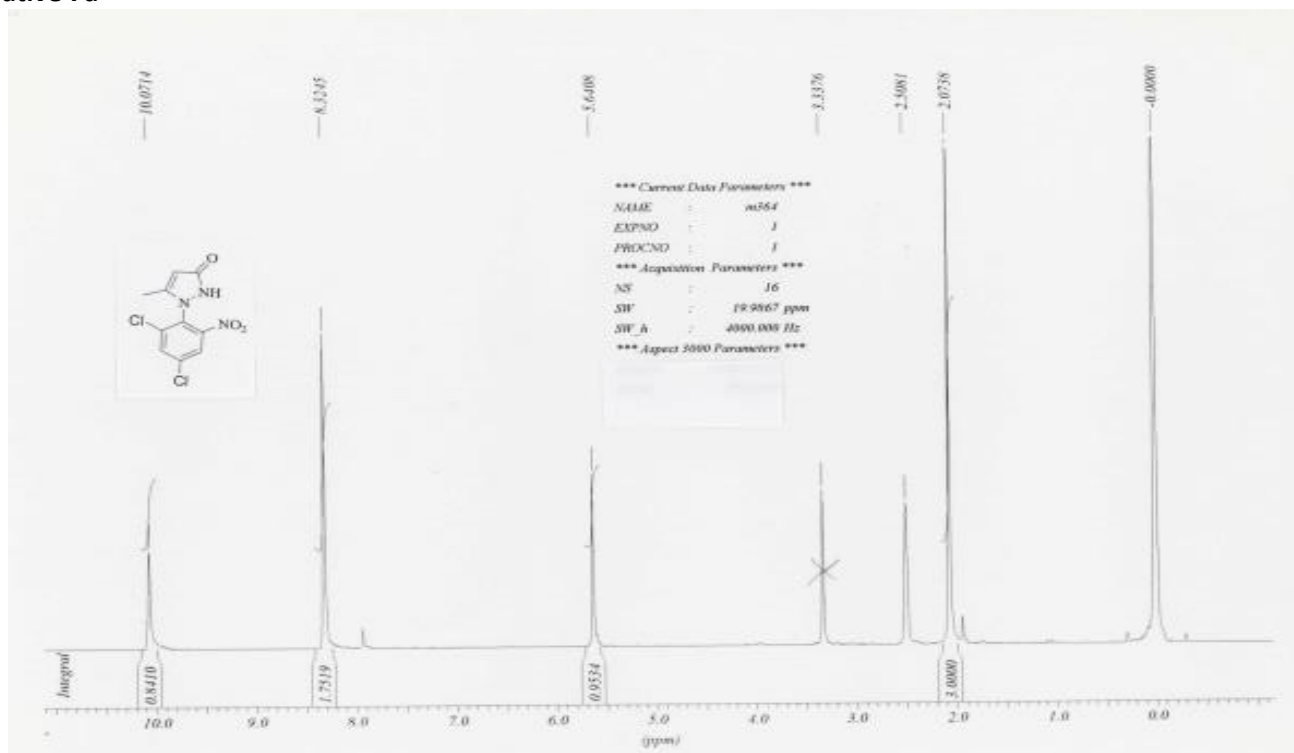
Derivative 6a

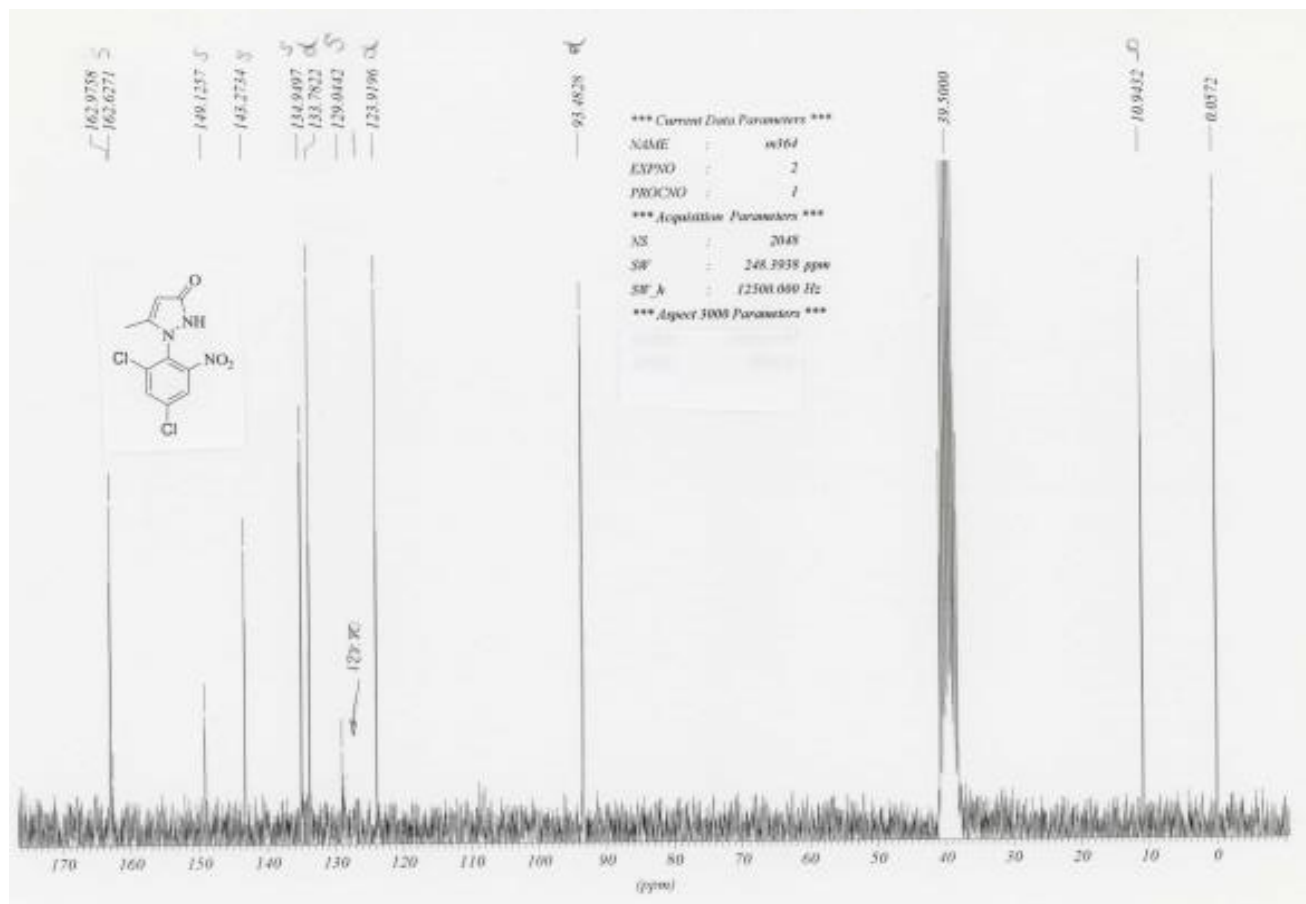
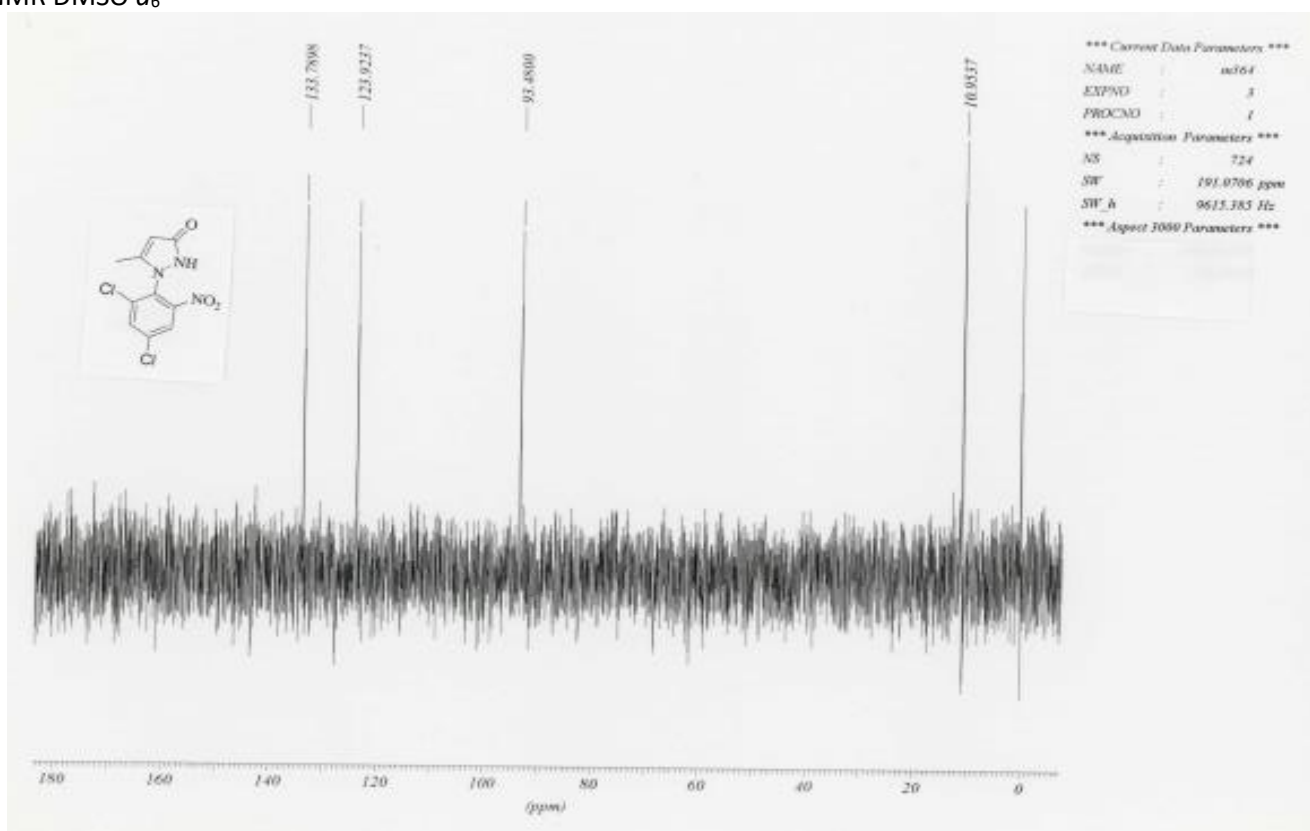
 ^1H NMR (200MHz) DMSO d_6  ^{13}C NMR (51 MHz) DMSO d_6



Dept 135

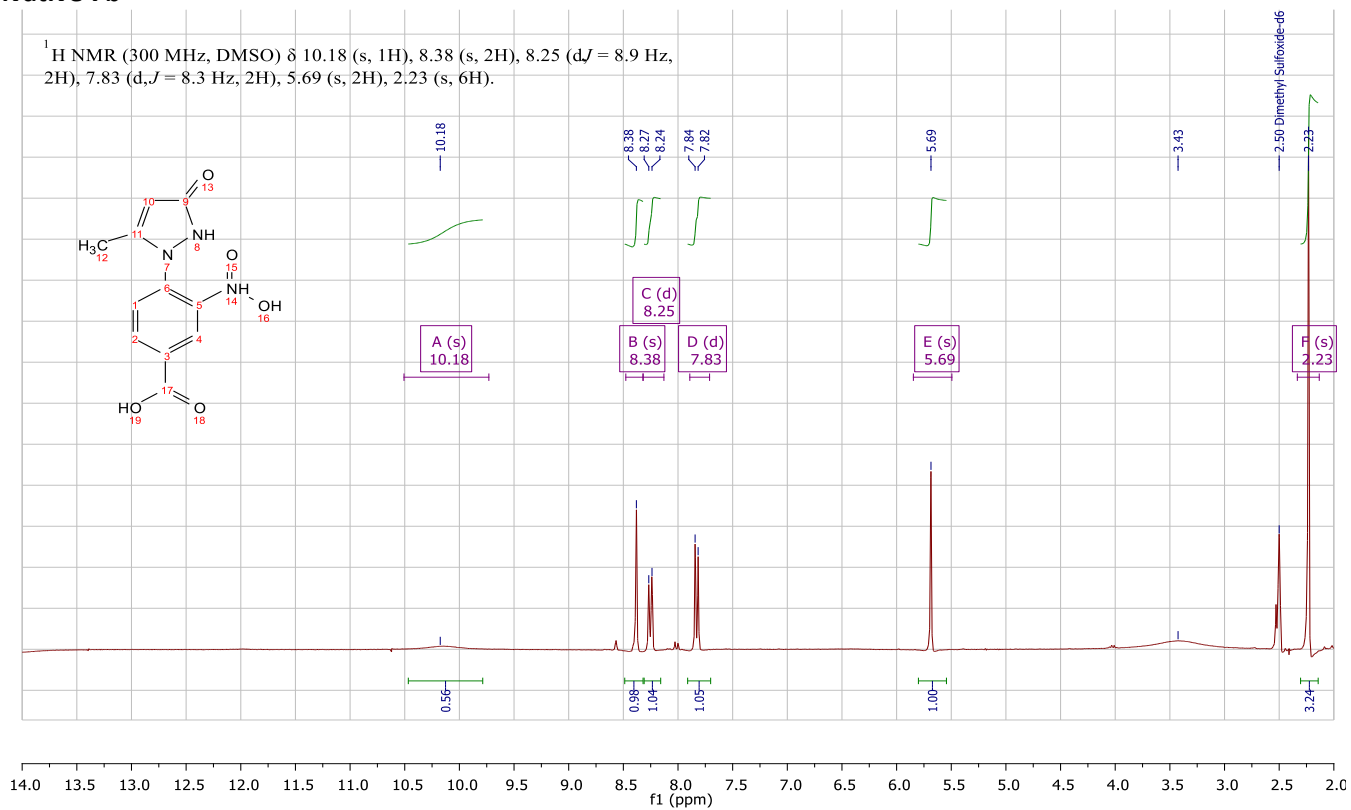
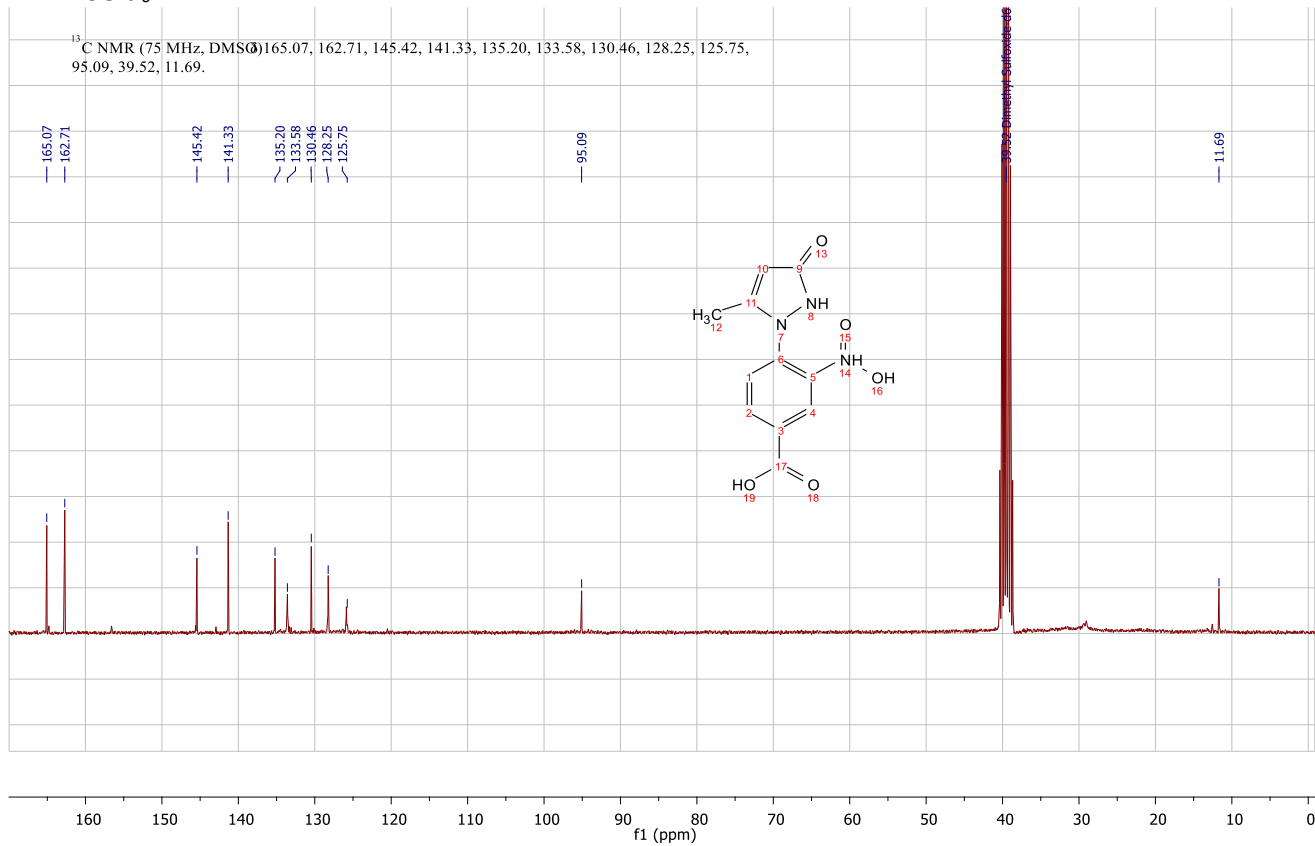
Derivative 7a

¹H NMR DMSO *d*₆

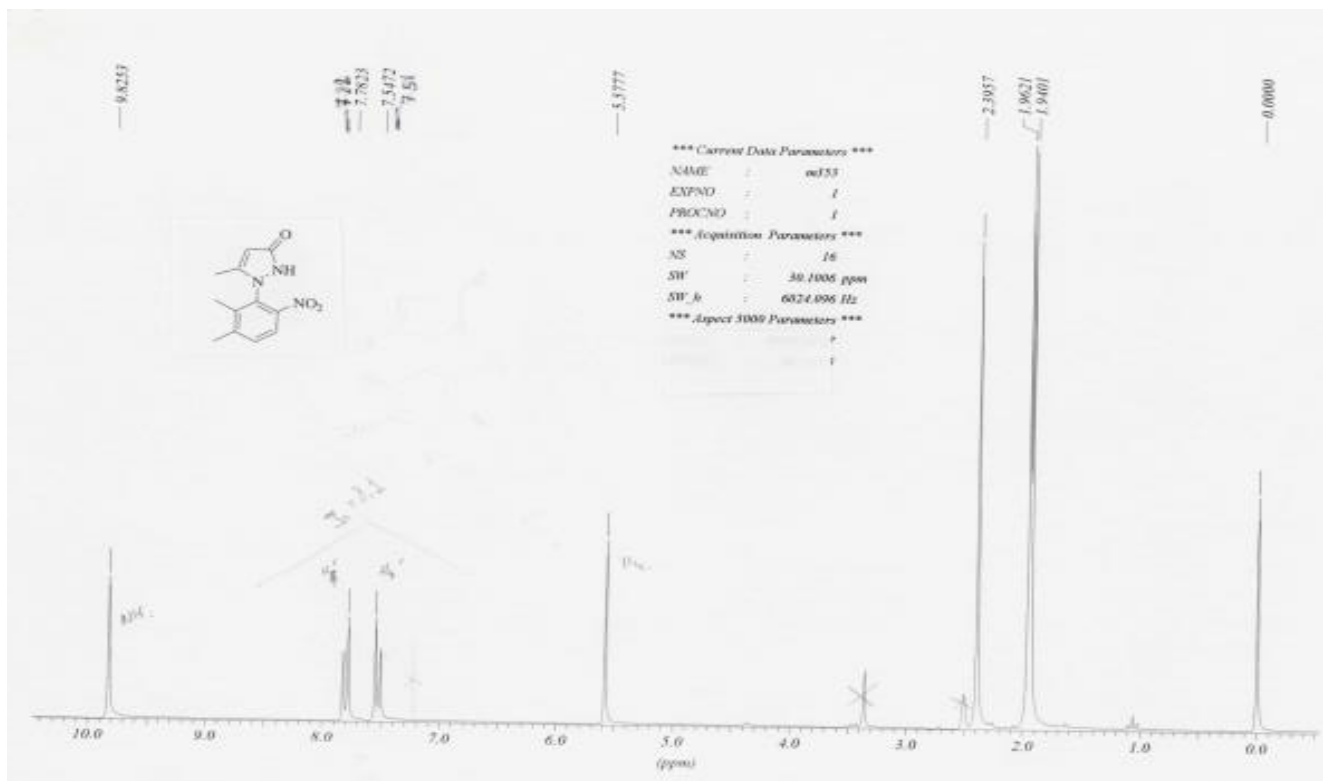
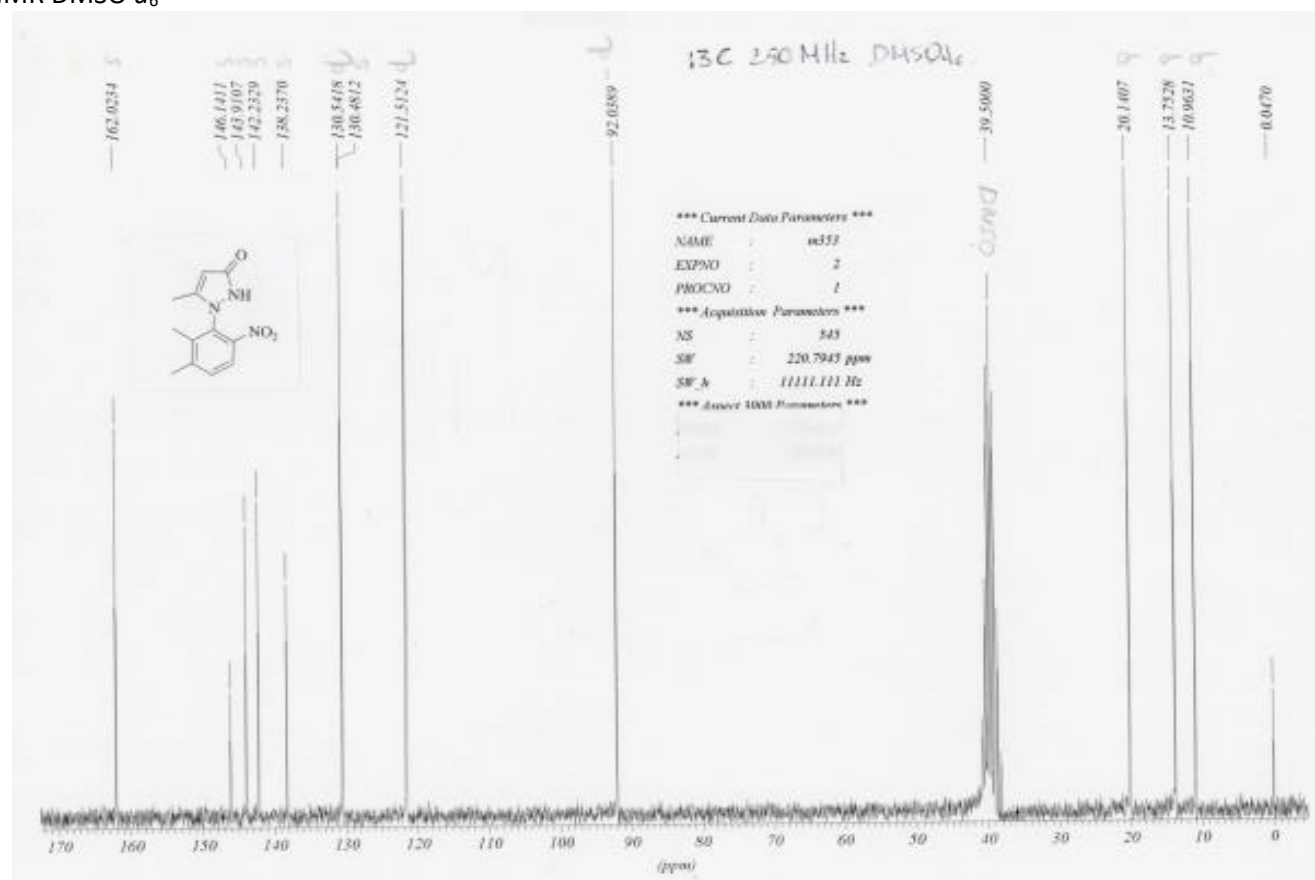
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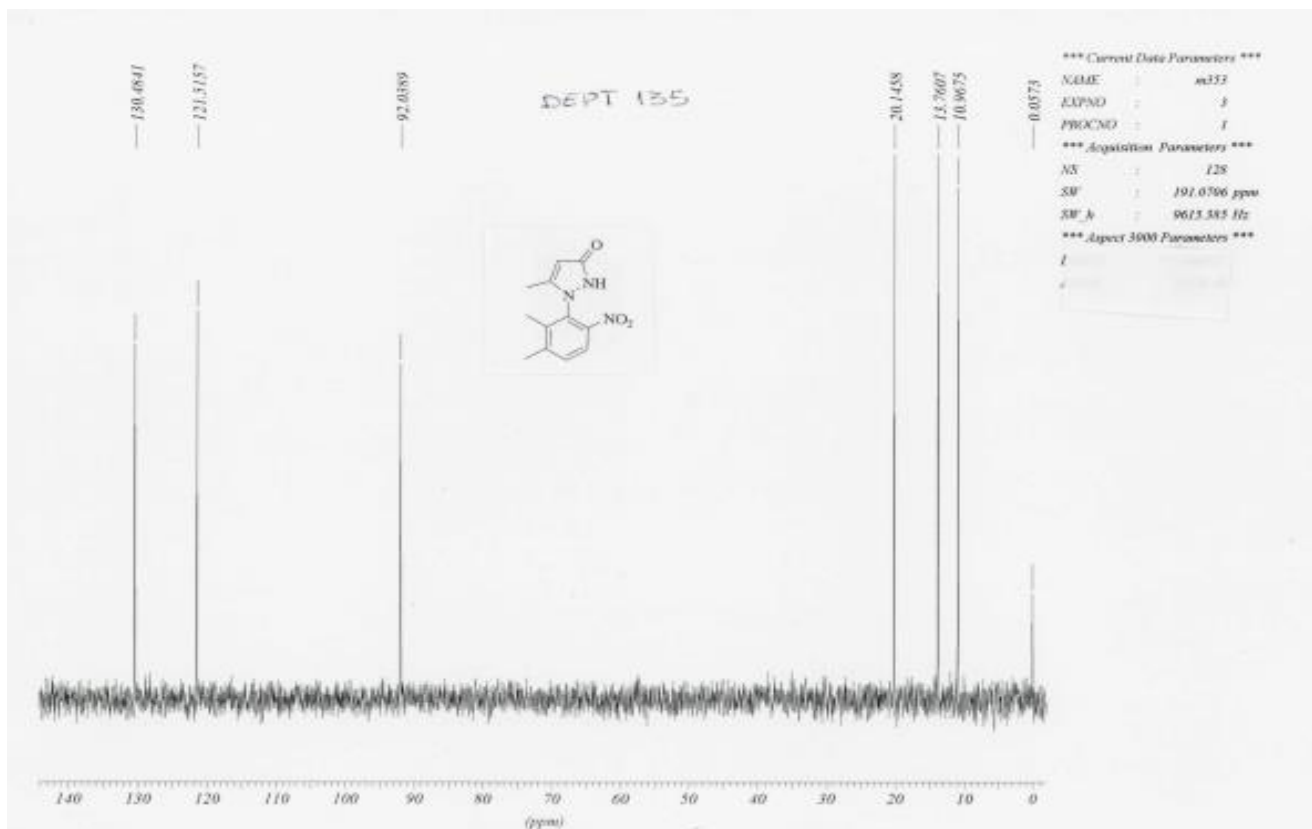
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Derivative 7b

¹³C NMR DMSO *d*₆¹³C NMR DMSO *d*₆

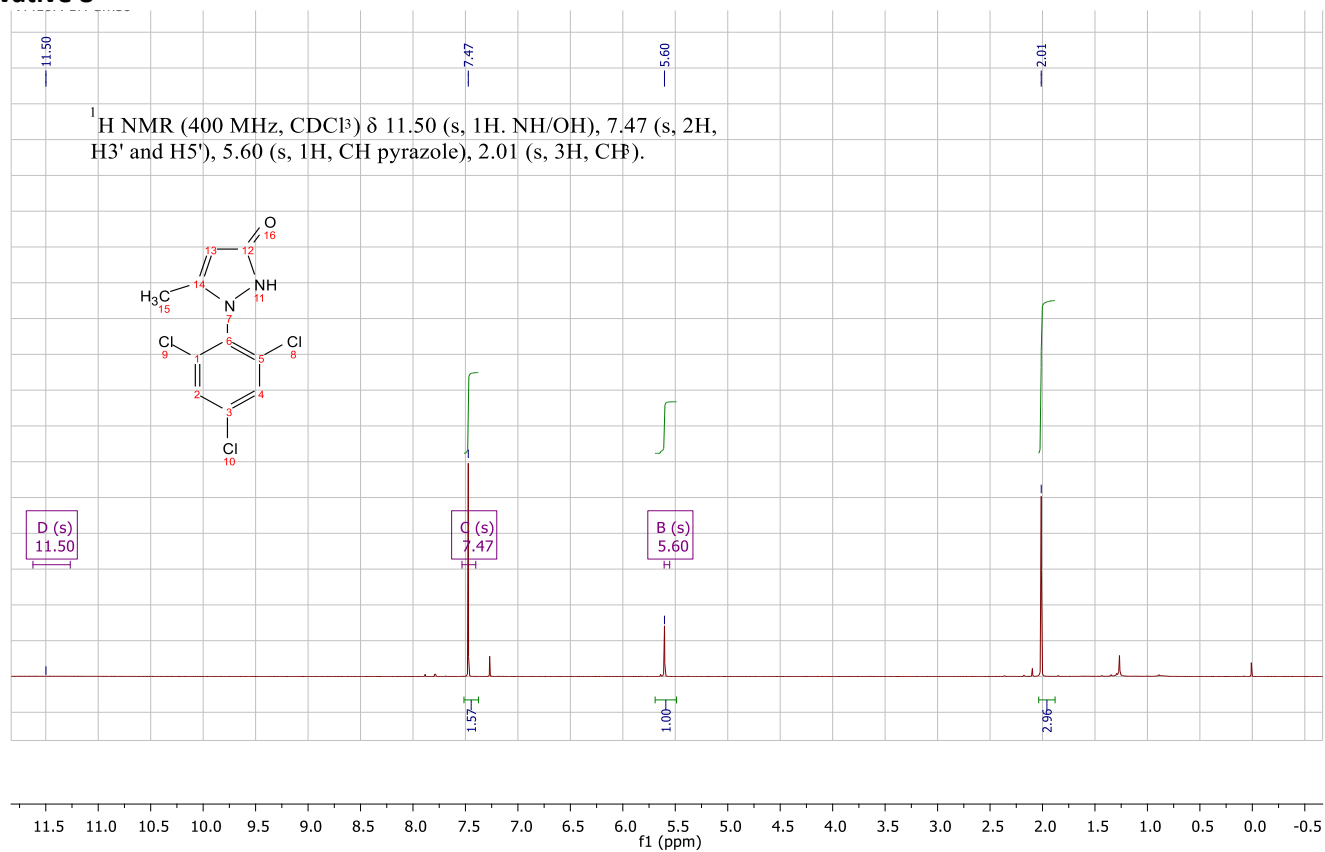
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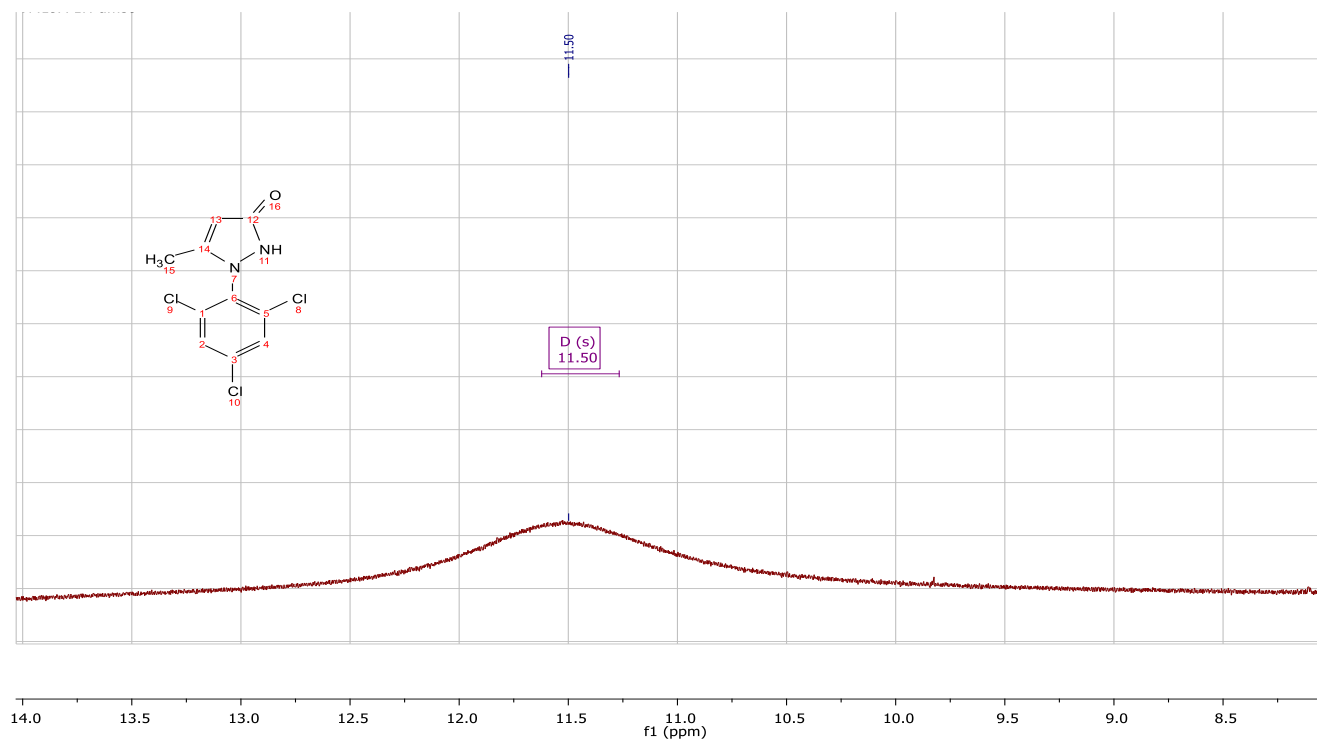
 ^1H NMR DMSO d_6  ^{13}C NMR DMSO d_6



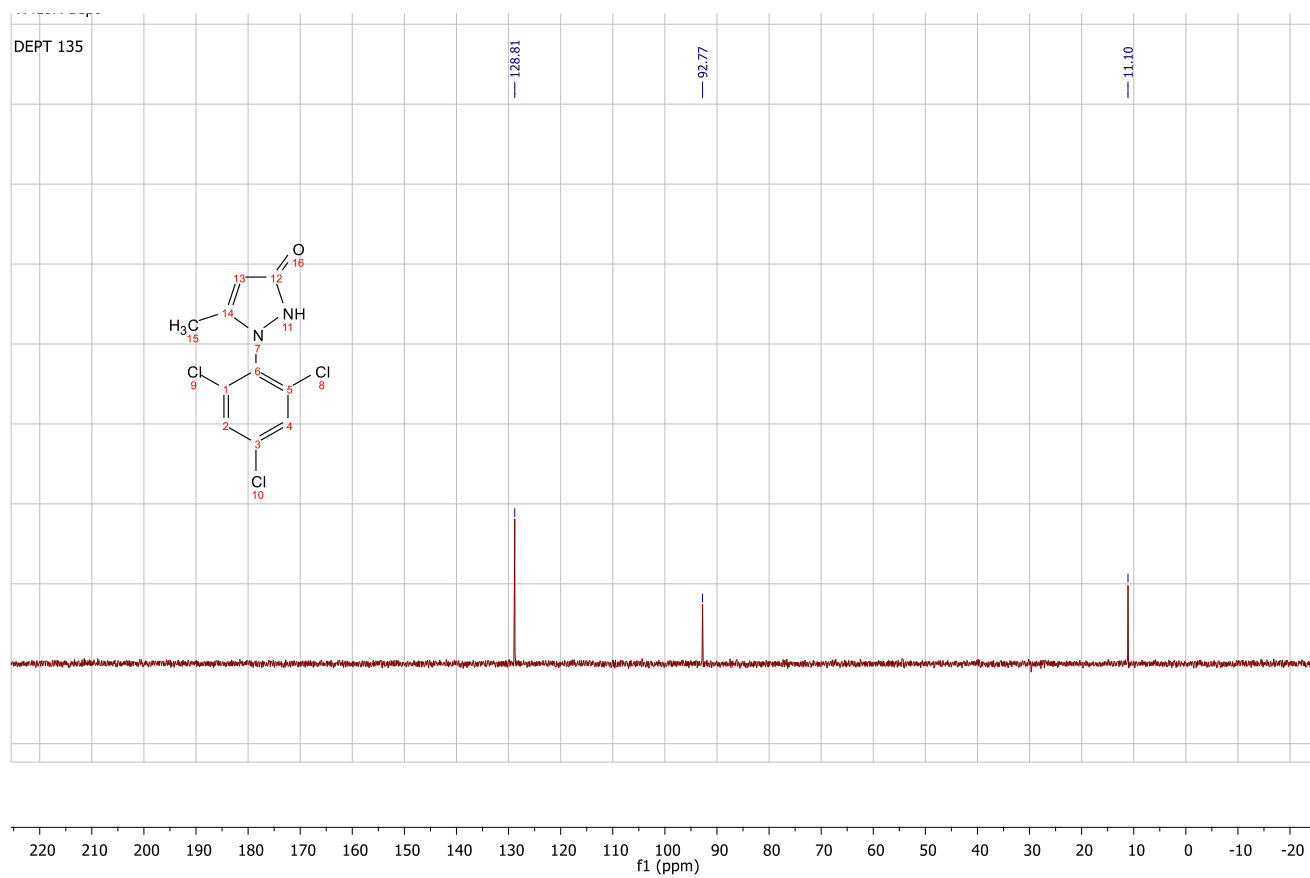
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Derivative 8

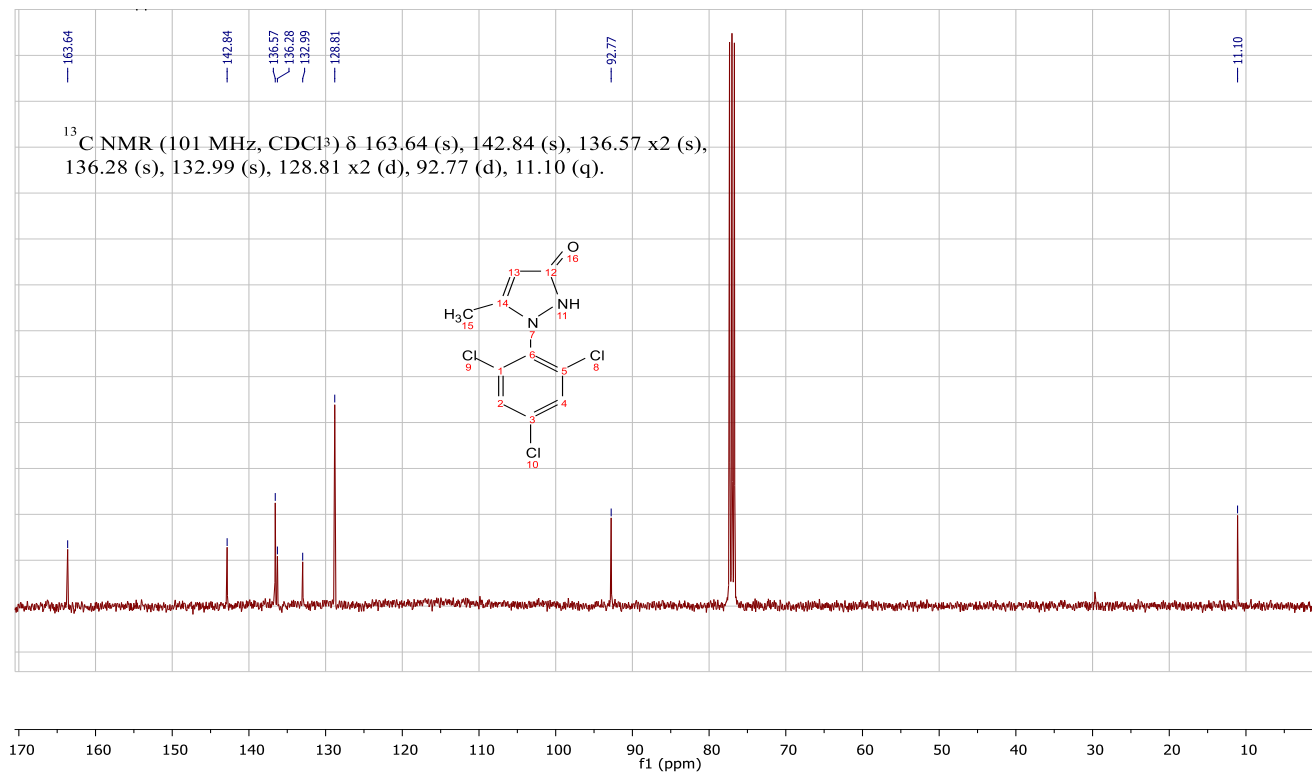
¹H NMR CDCl₃



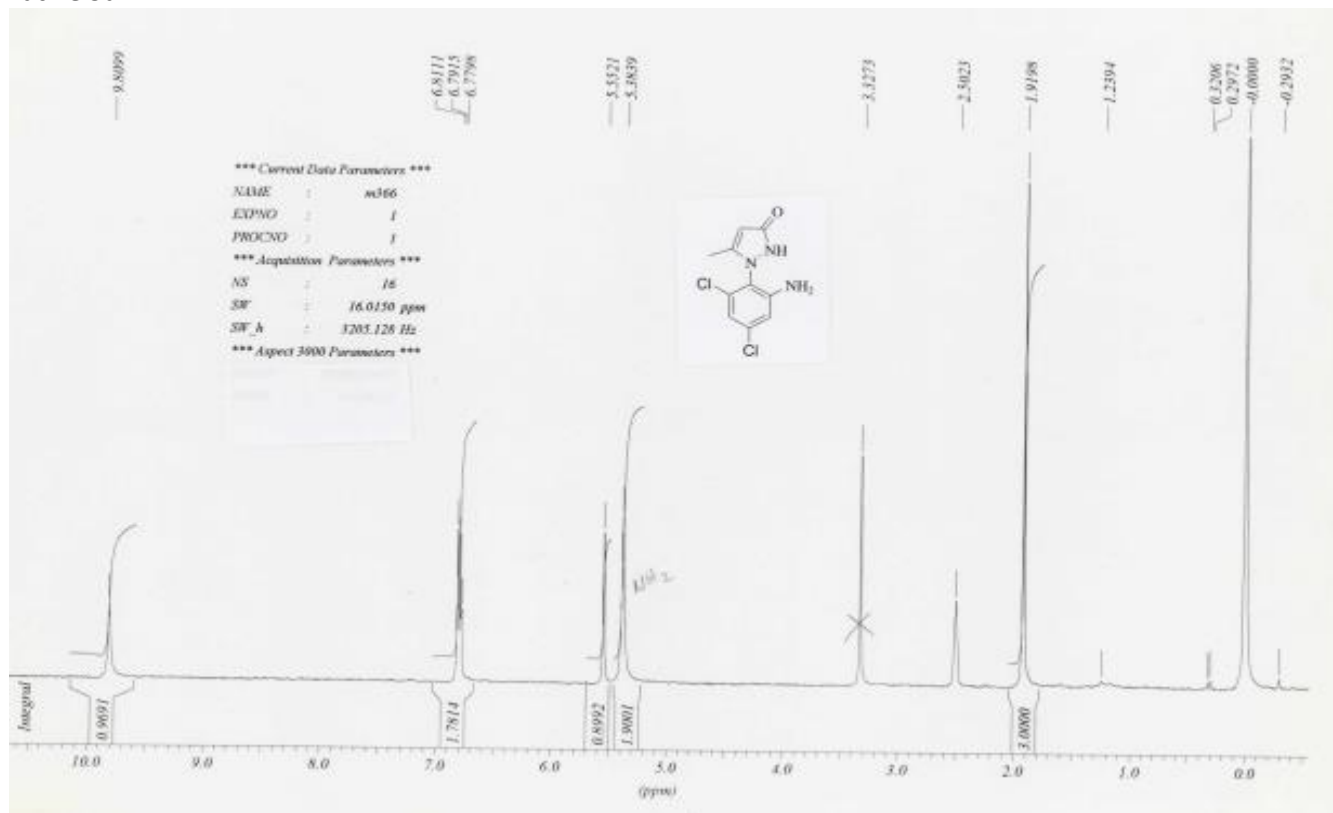
Peak at 11.50 was amplified to better evidence their presence

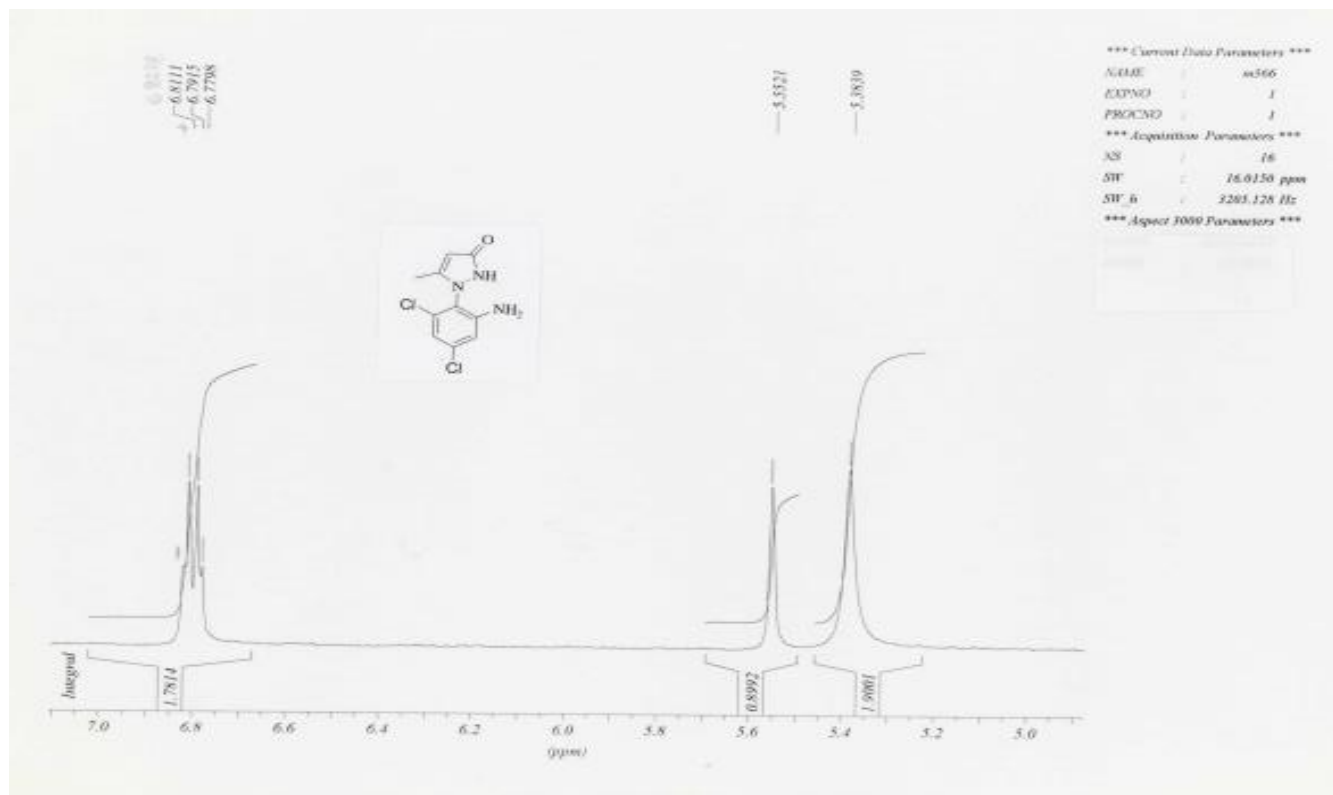
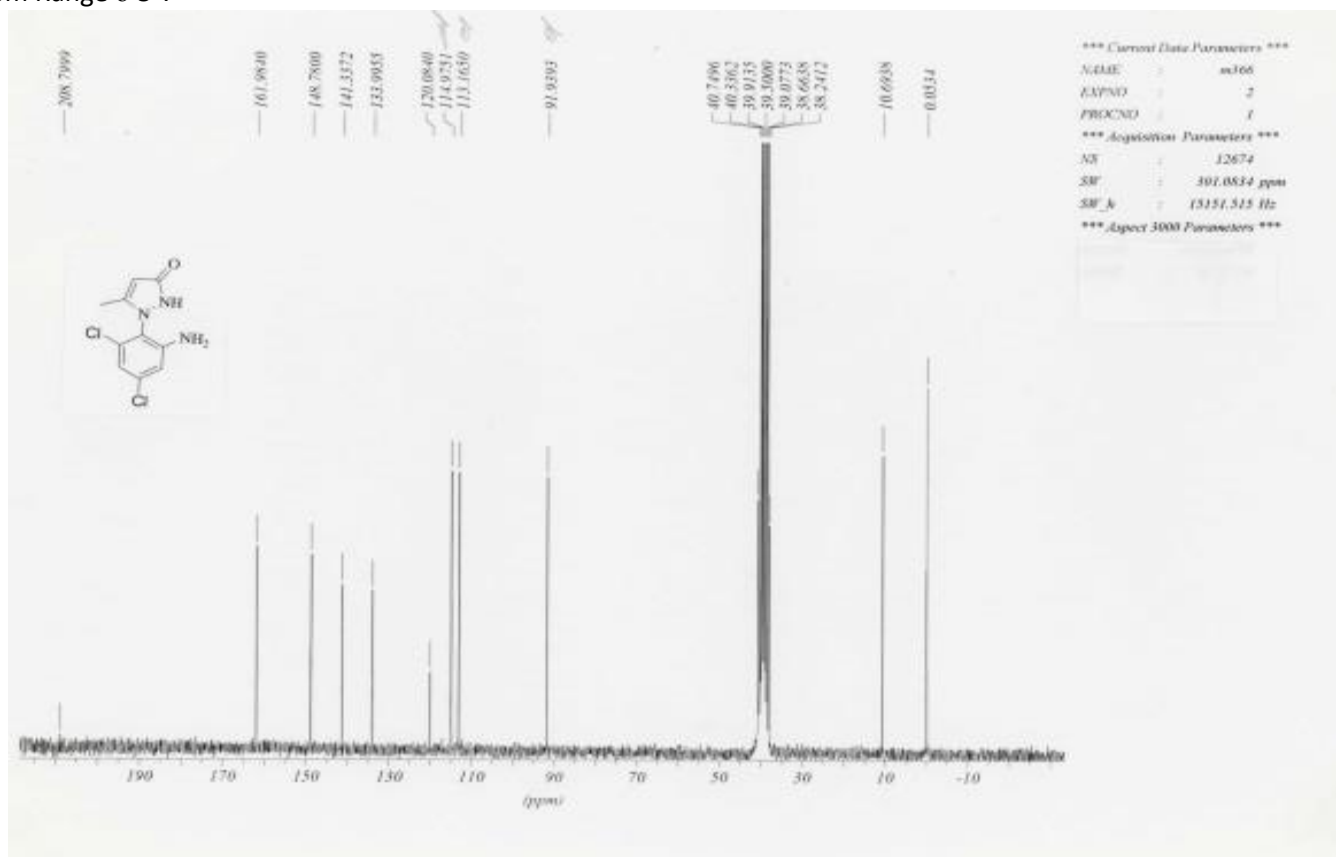


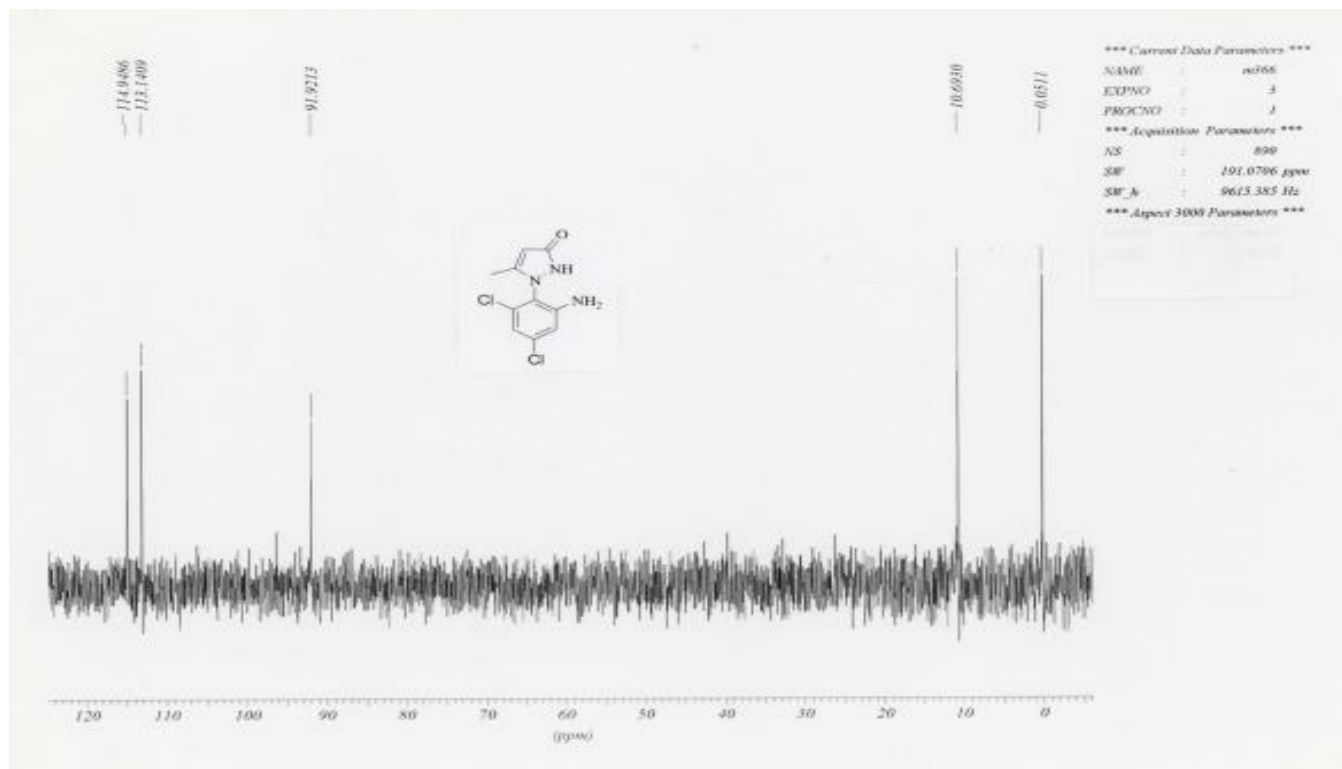
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¹³C NMR CDCl₃

Derivative 9a

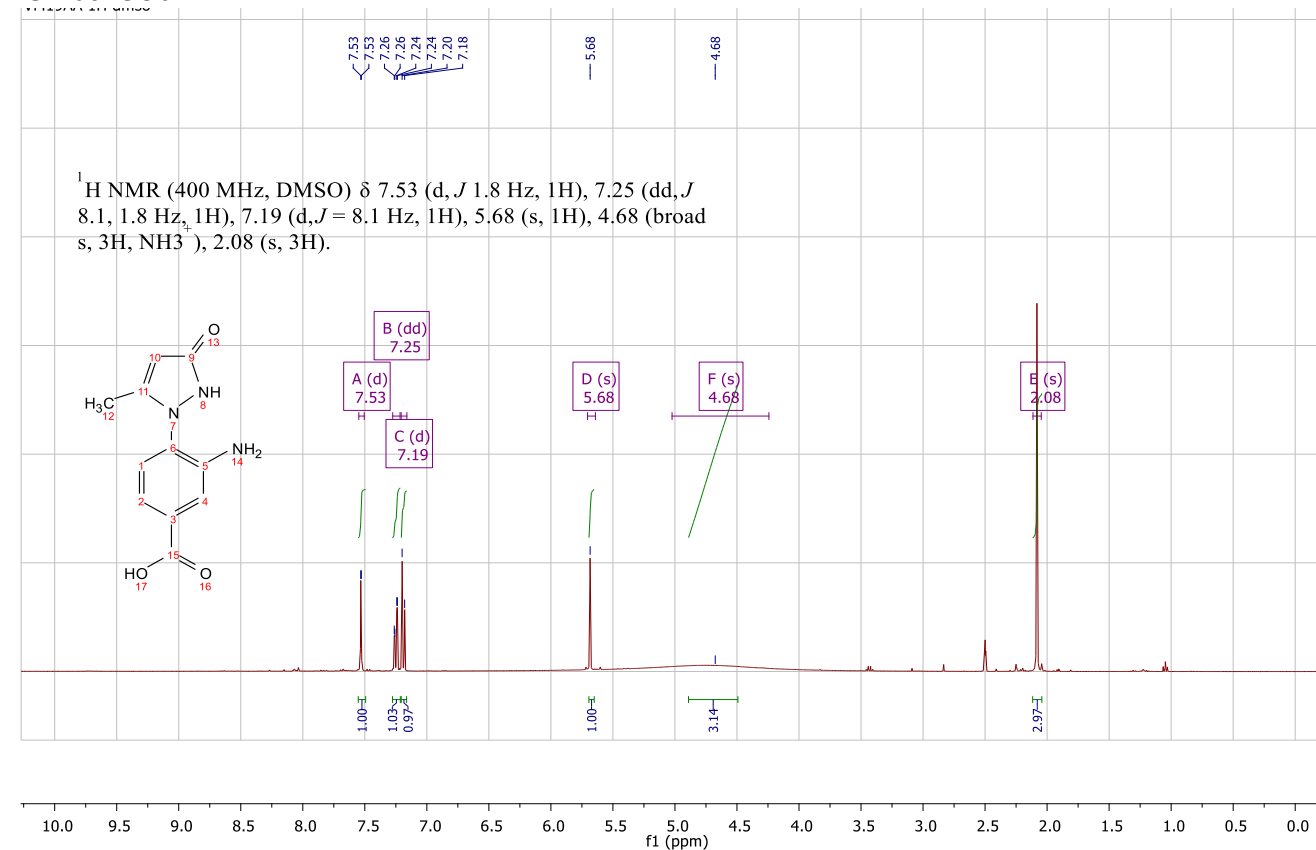
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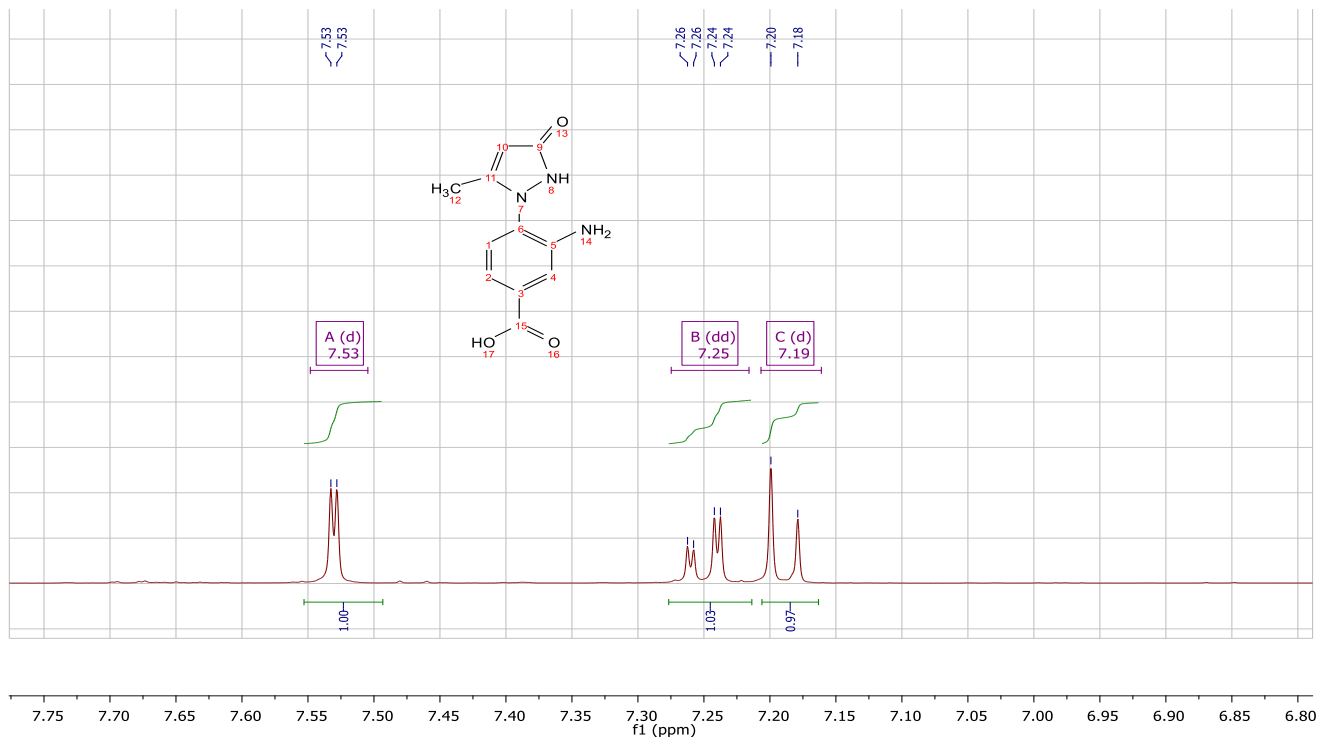
Zoom Range δ 5-7 ^{13}C NMR DMSO d_6



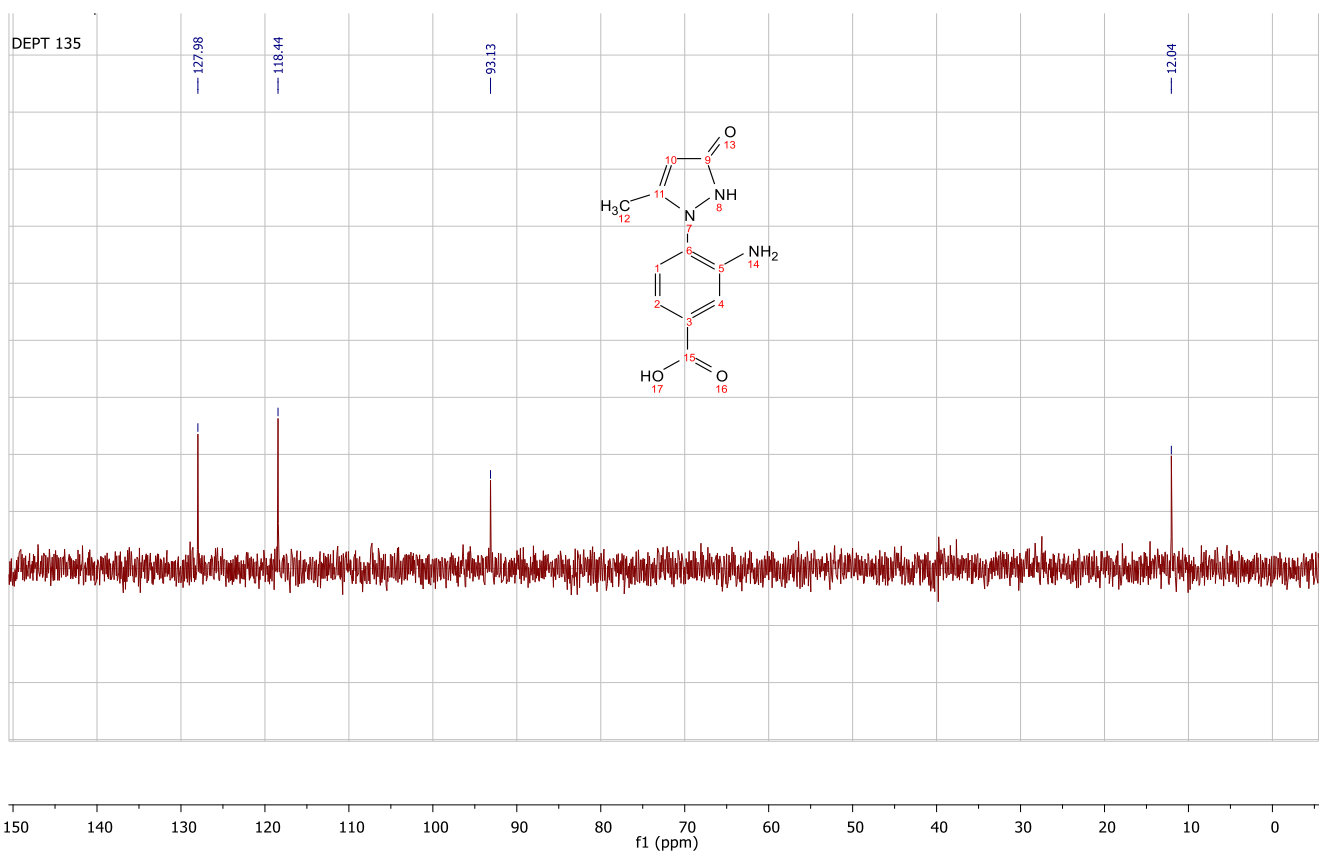
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Derivative 9b

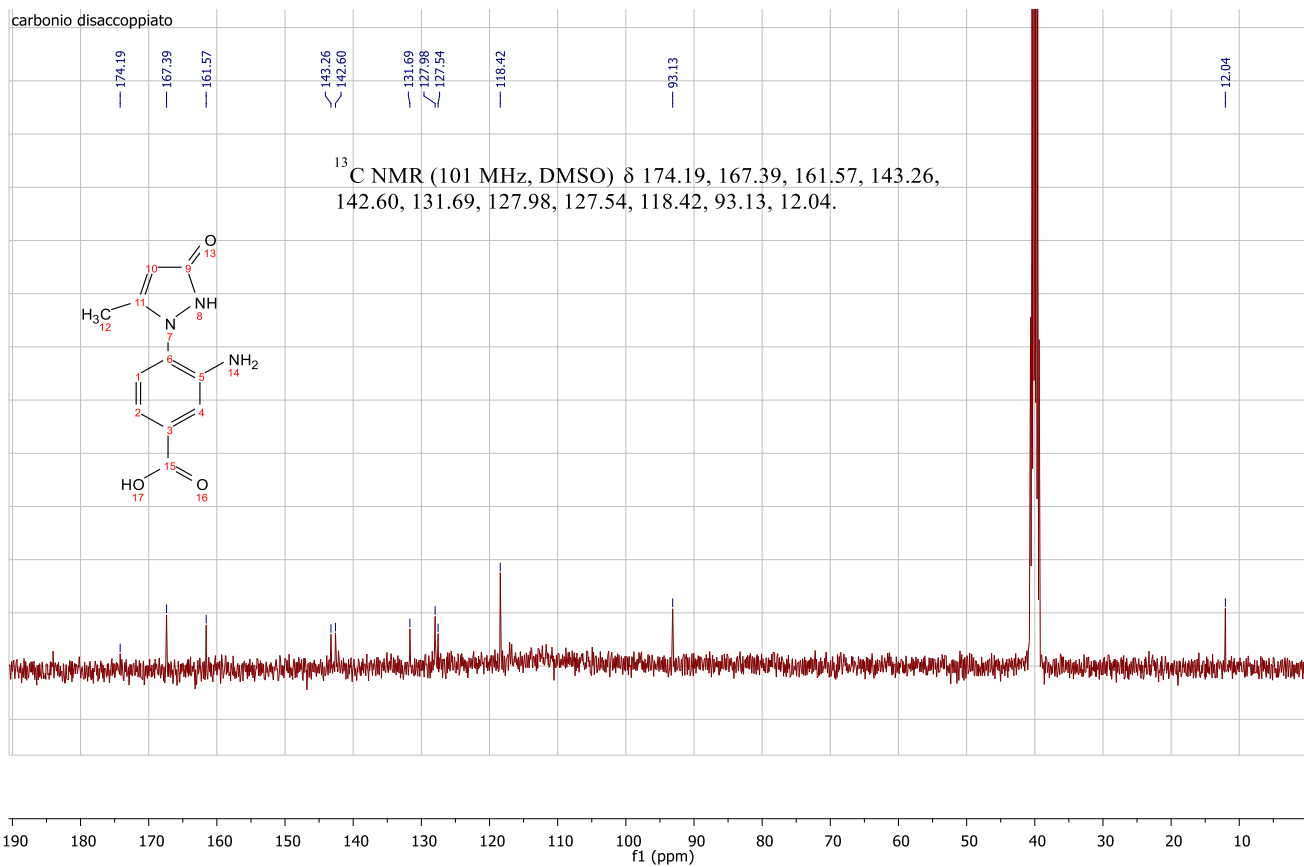
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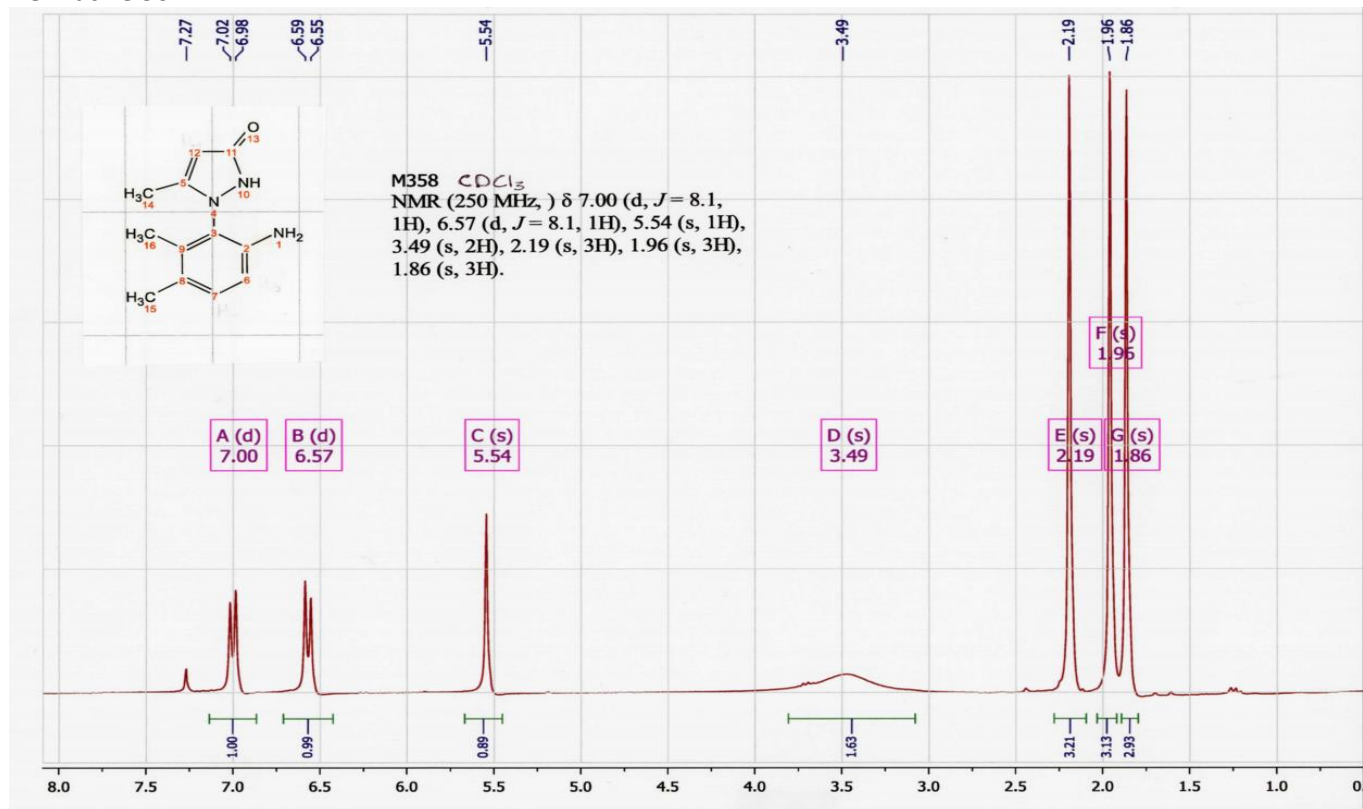
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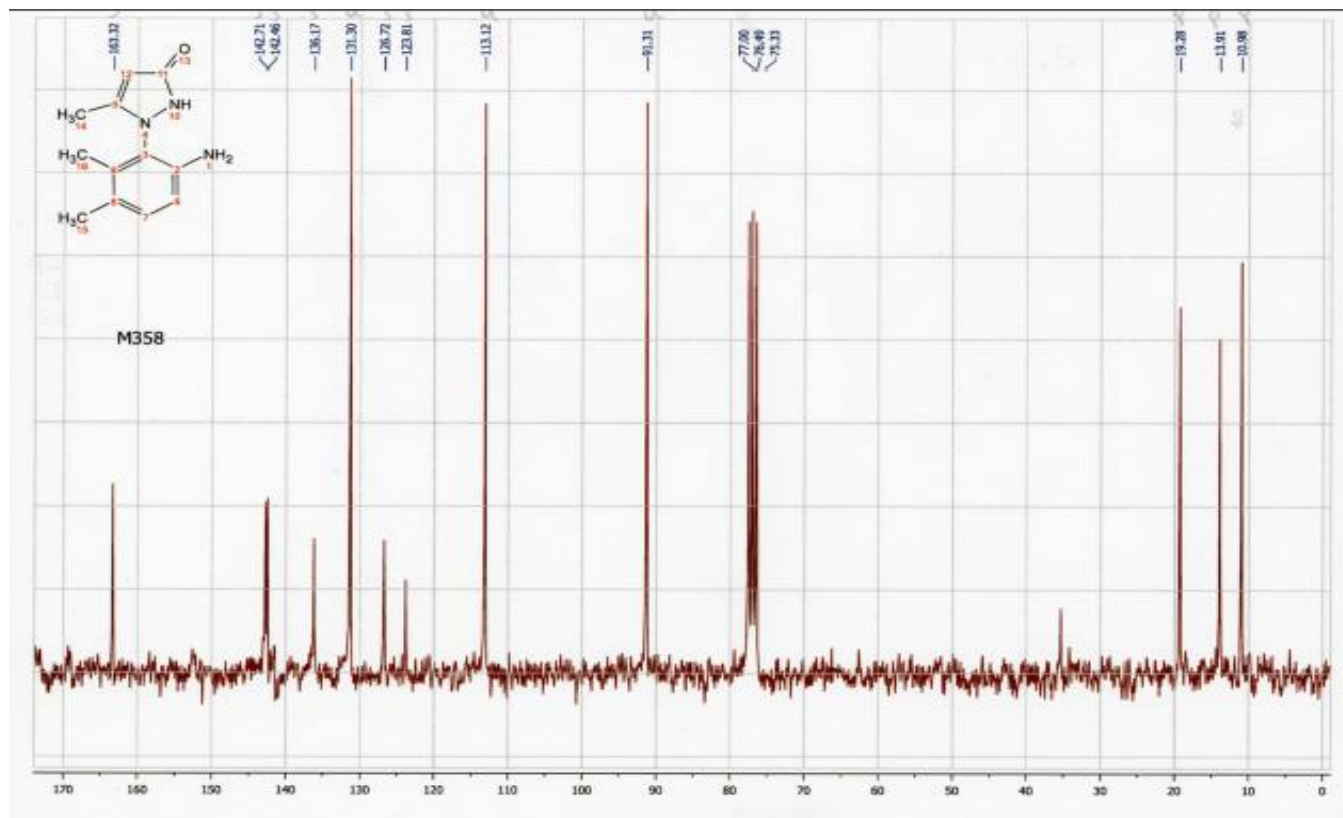


Dept135

 ^{13}C NMR DMSO d_6

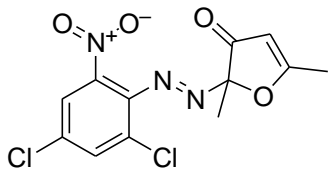
Derivative 9c

 ^1H NMR DMSO d_6

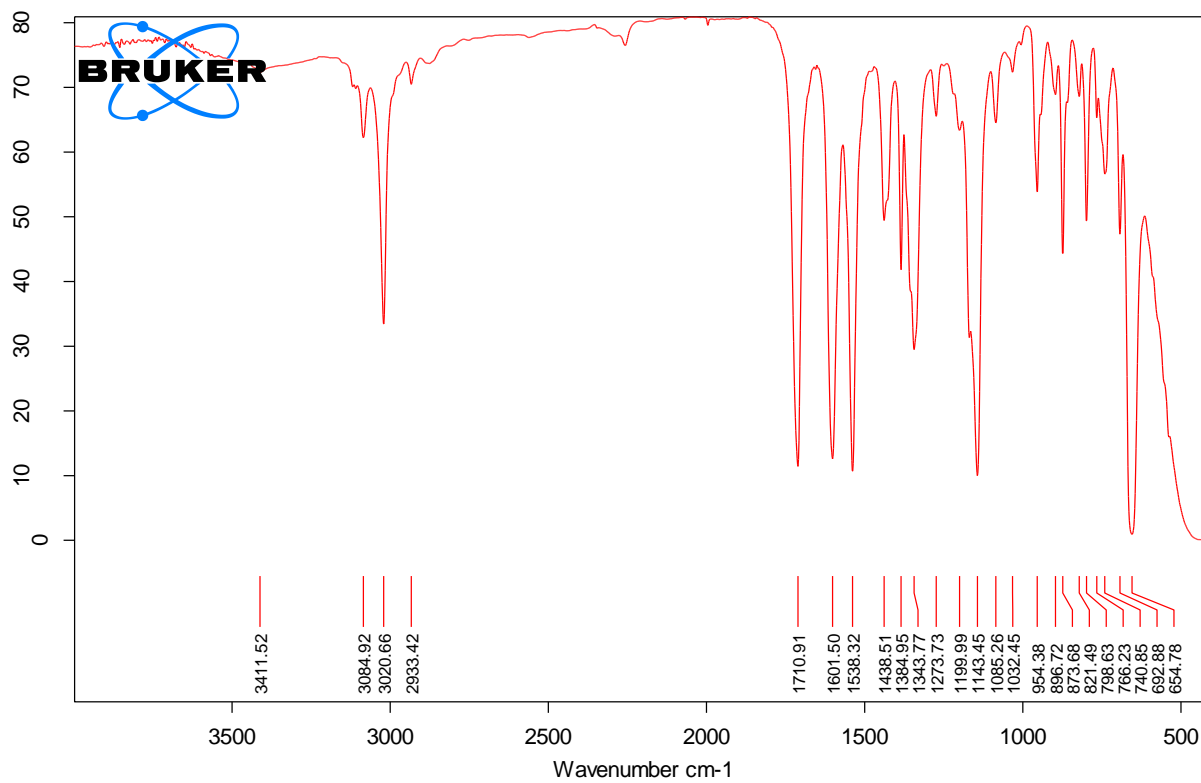
 ^{13}C NMR $\text{DMSO-}d_6$

FT/IR spectra recorded with Bruker Alpha Spectrometer in NaCl window cell in bromoform dispersion or solution.

Derivative 6a



6a

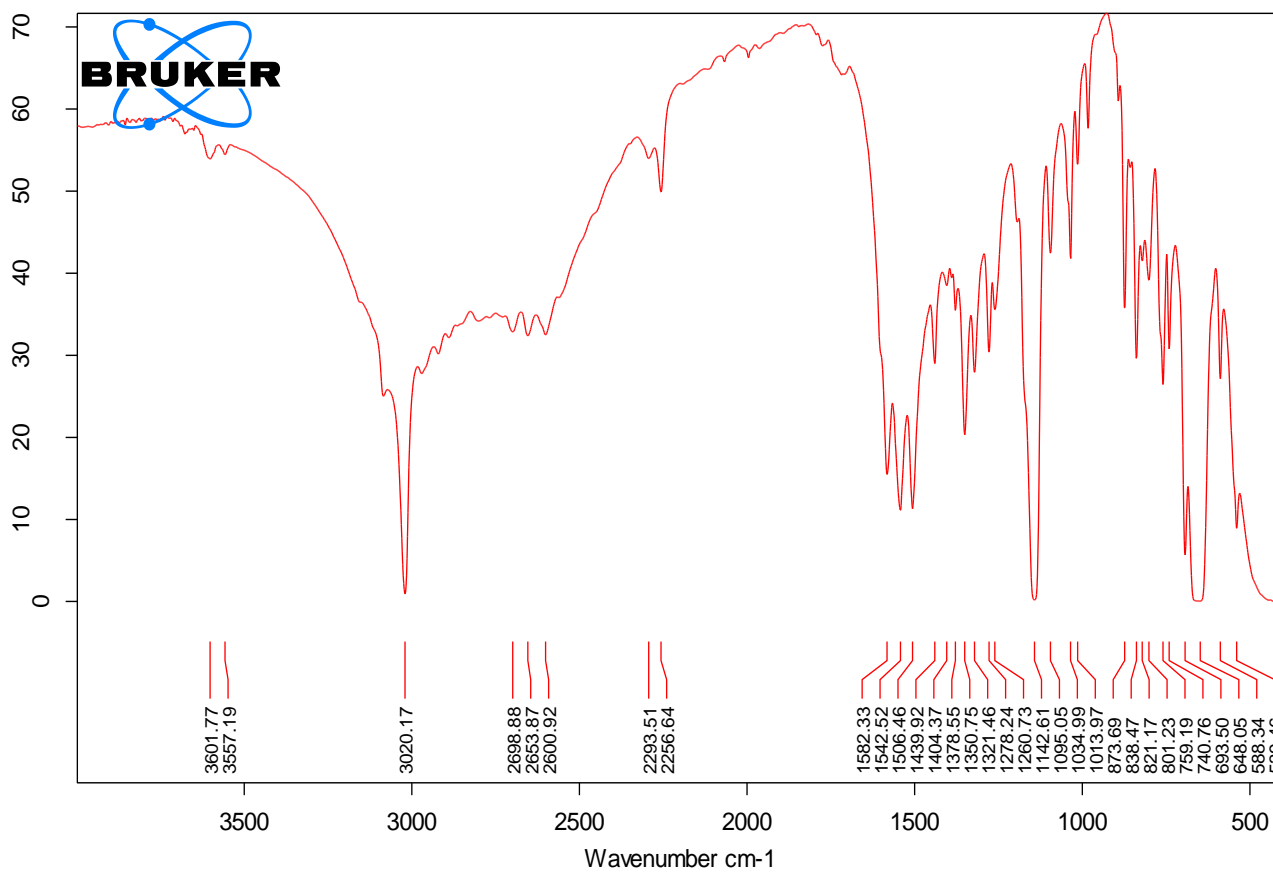
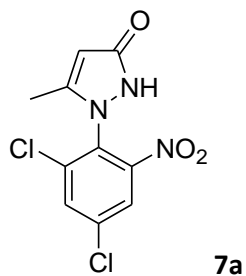


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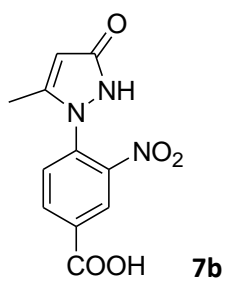
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Instrument type and / or accessory

31/01/2022

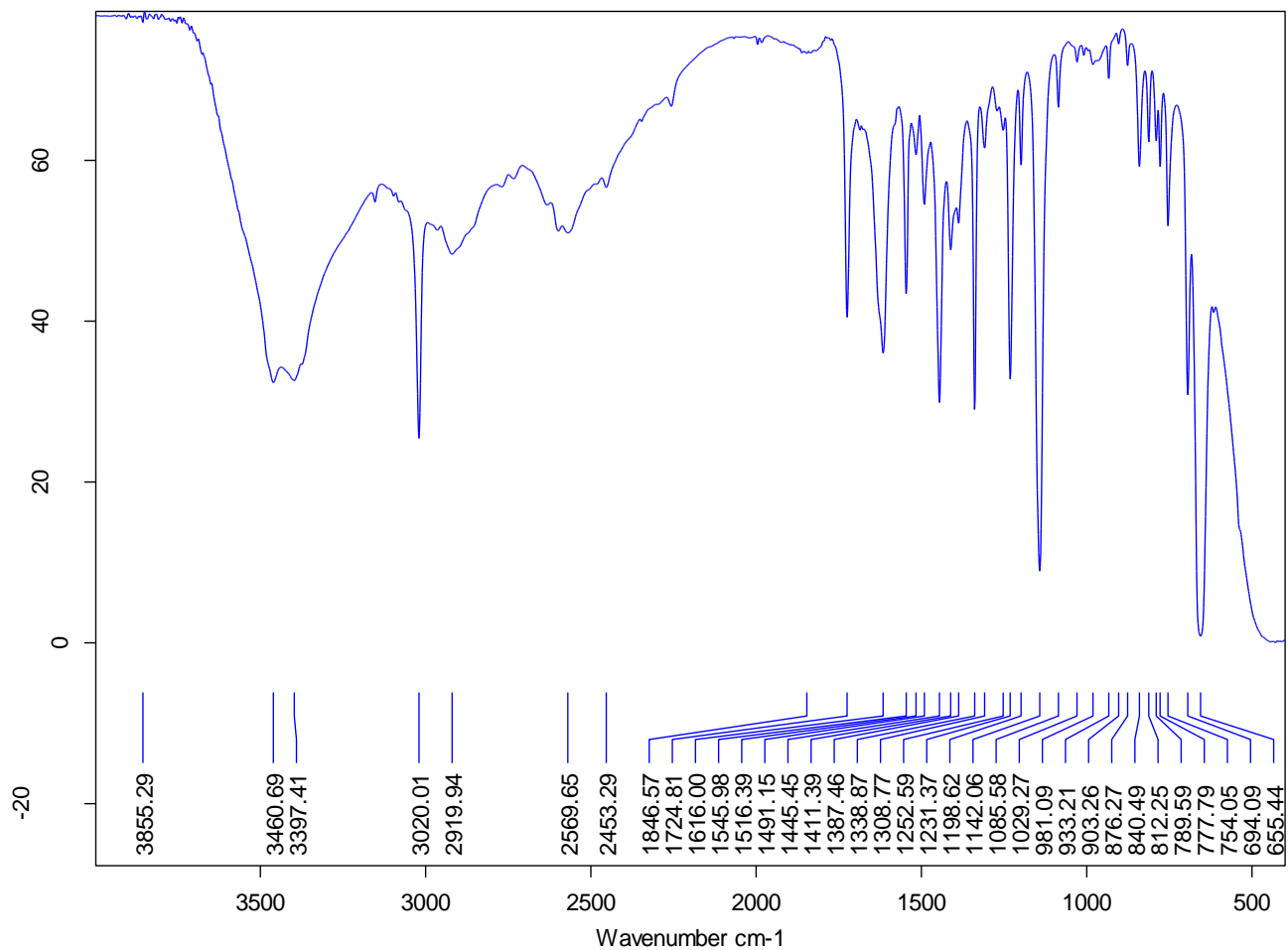


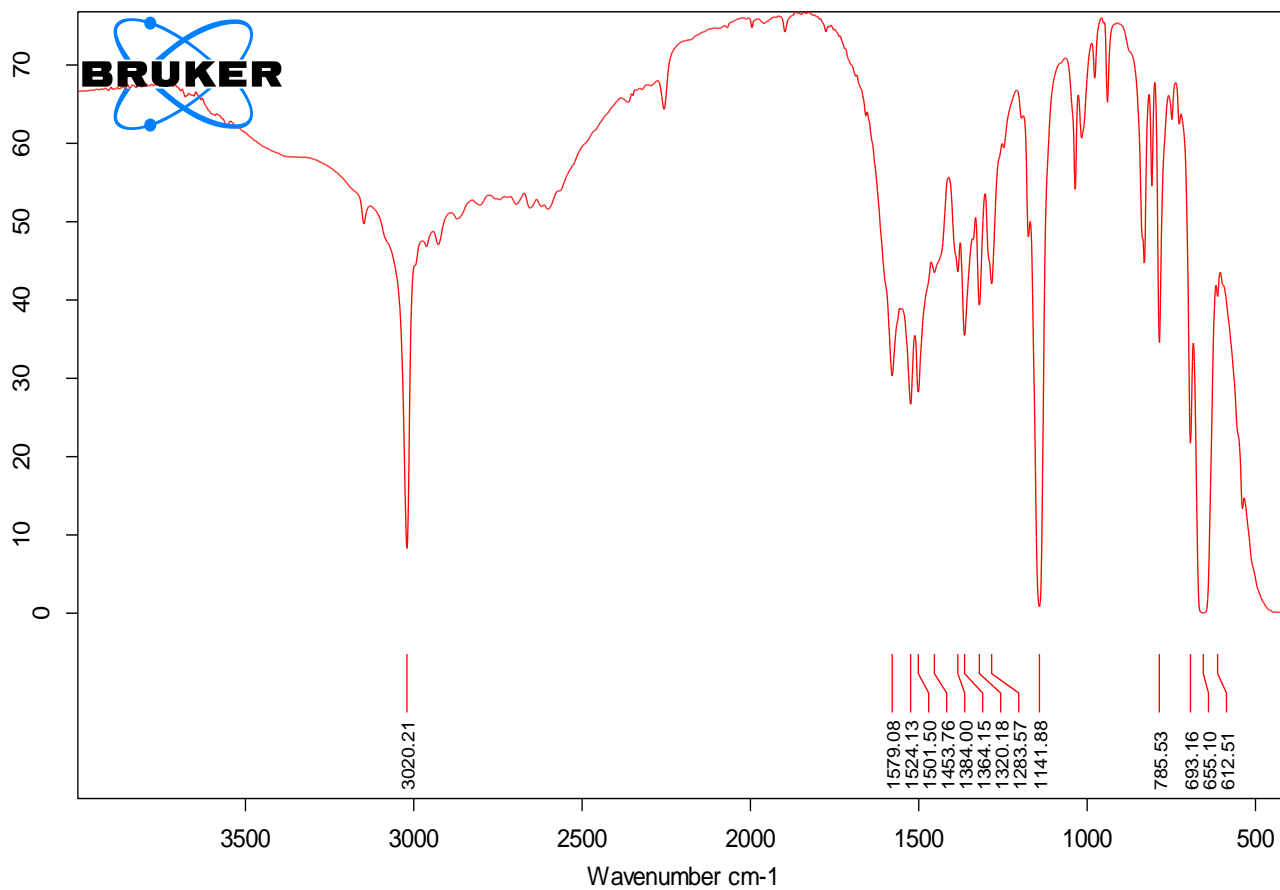
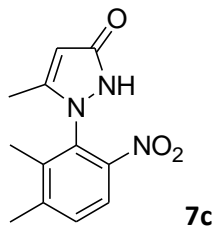
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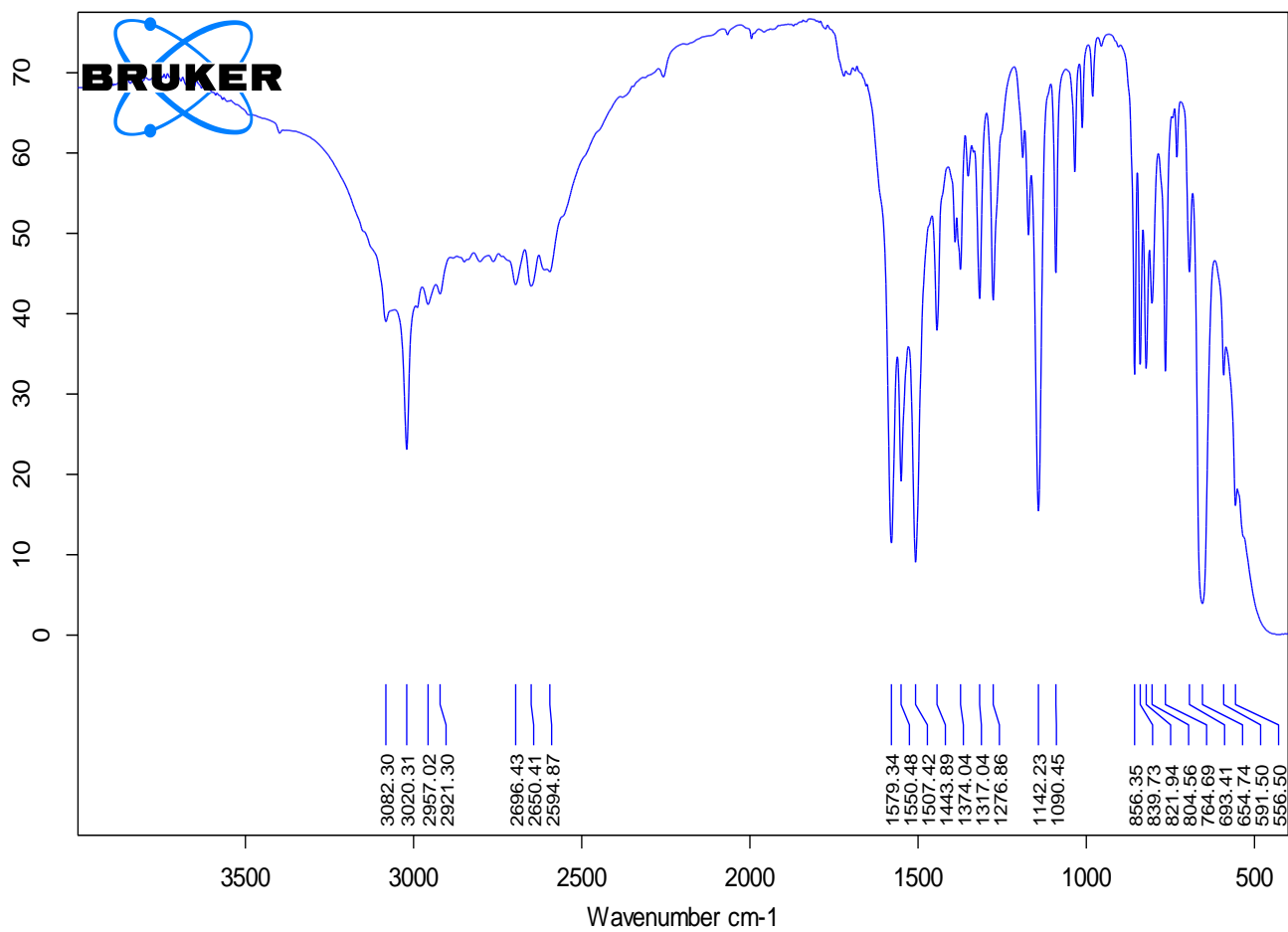
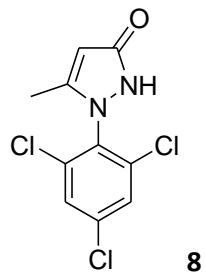


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Nitro56diMe

Instrument type and / or accessory

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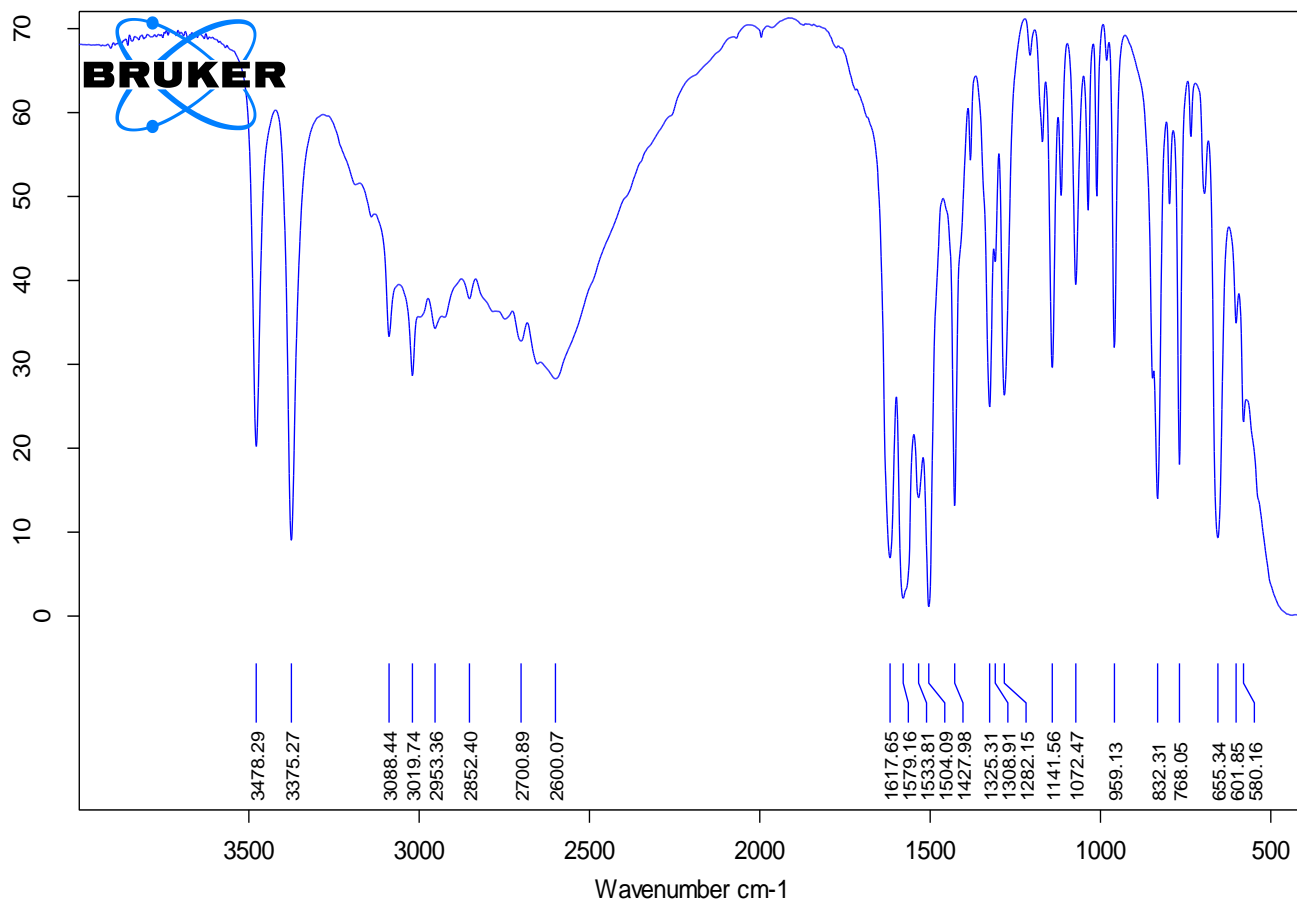
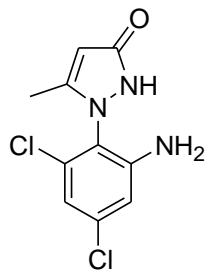


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Pyr_triCl

Instrument type and / or accessory

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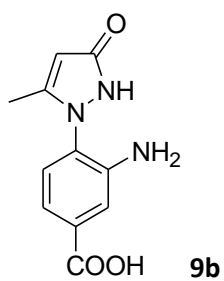


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NH2_46diCl_Pyrzne

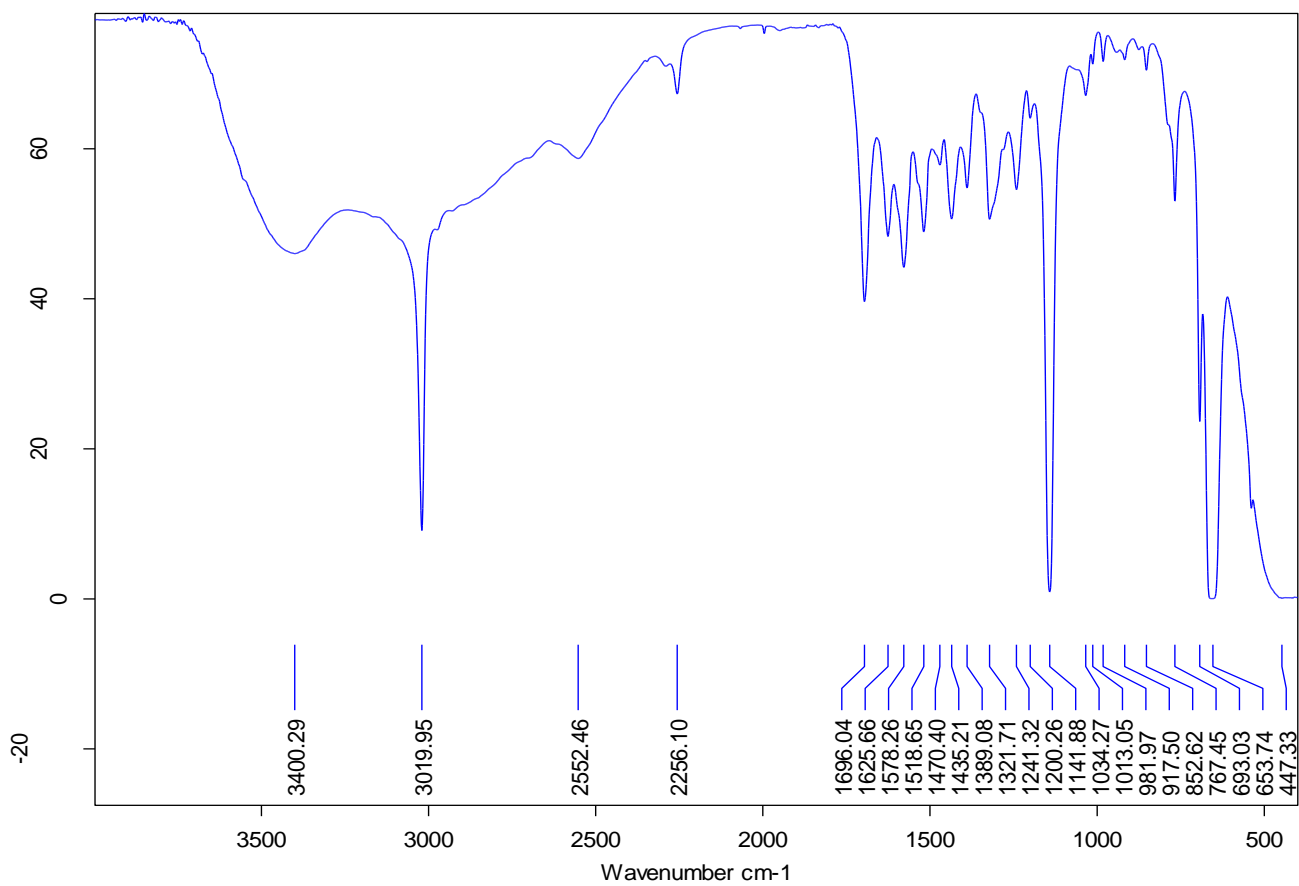
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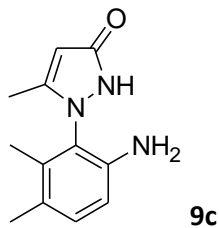
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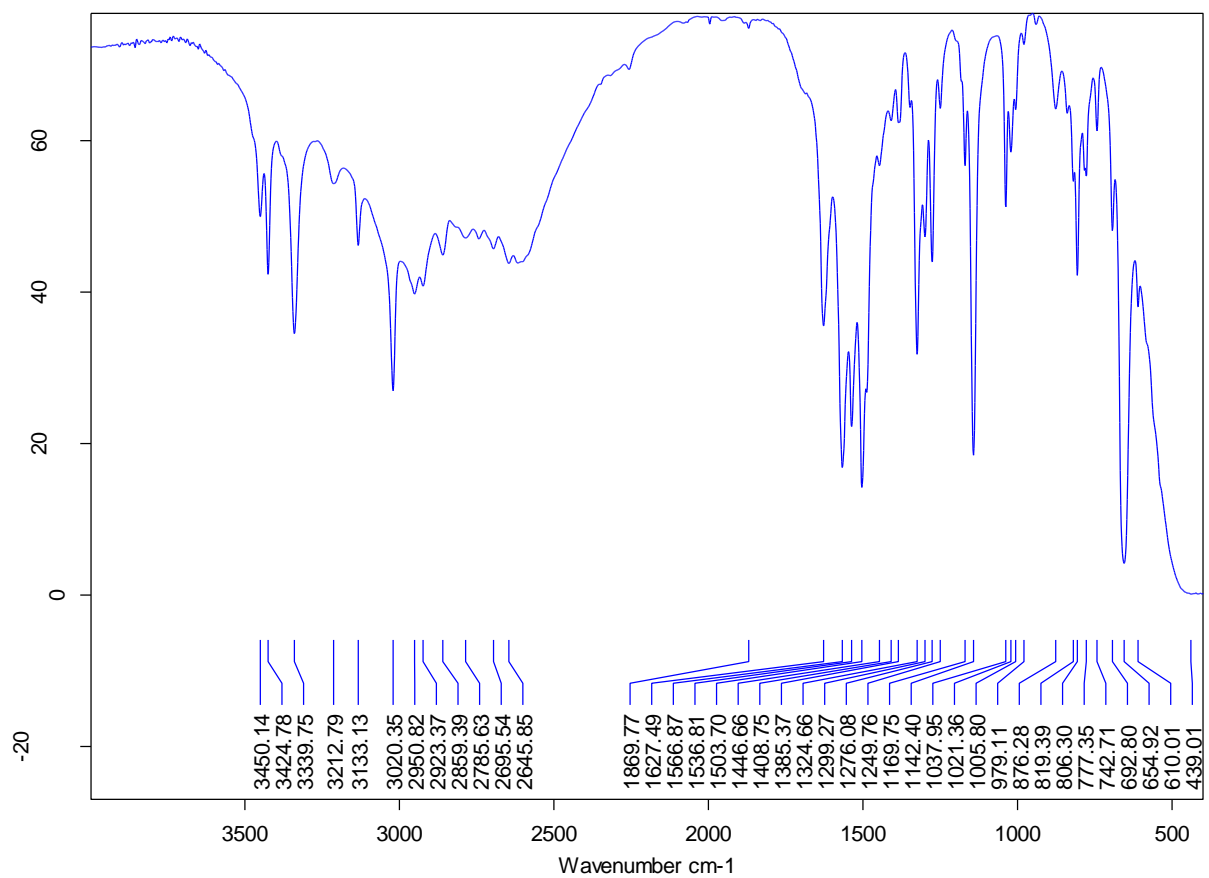
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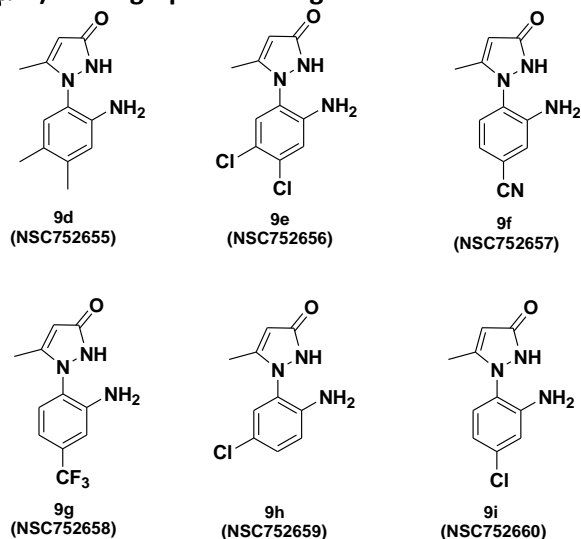


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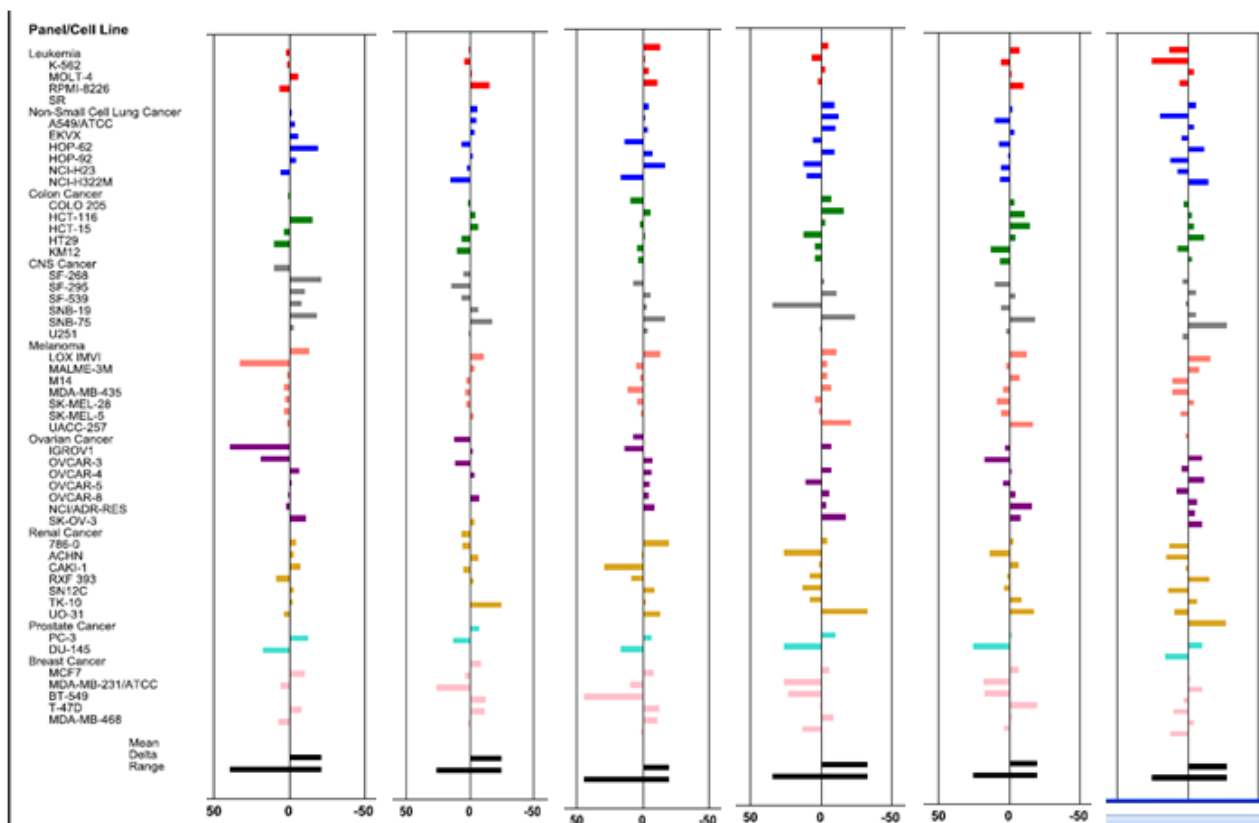
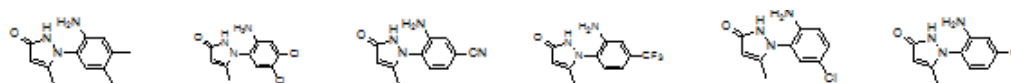
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Antiproliferative NCI one dose (10 μ M) mean graph screening

Pyrazol-3-ones selected by NCI for one dose screening assay.

One dose 10 μ M (SRD) on about 60 tumor cell lines from NATIONAL CANCER INSTITUTE (N.C.I. USA)

The authors thank the National Cancer Institute (Bethesda, MD) team for the antitumor tests reported in this paper.