

Supporting Information

Solar-Driven Thermocatalytic Synthesis of Octahydroquinazolinone Using Novel Polyvinylchloride (PVC)-Supported Aluminum Oxide (Al_2O_3) Catalysts

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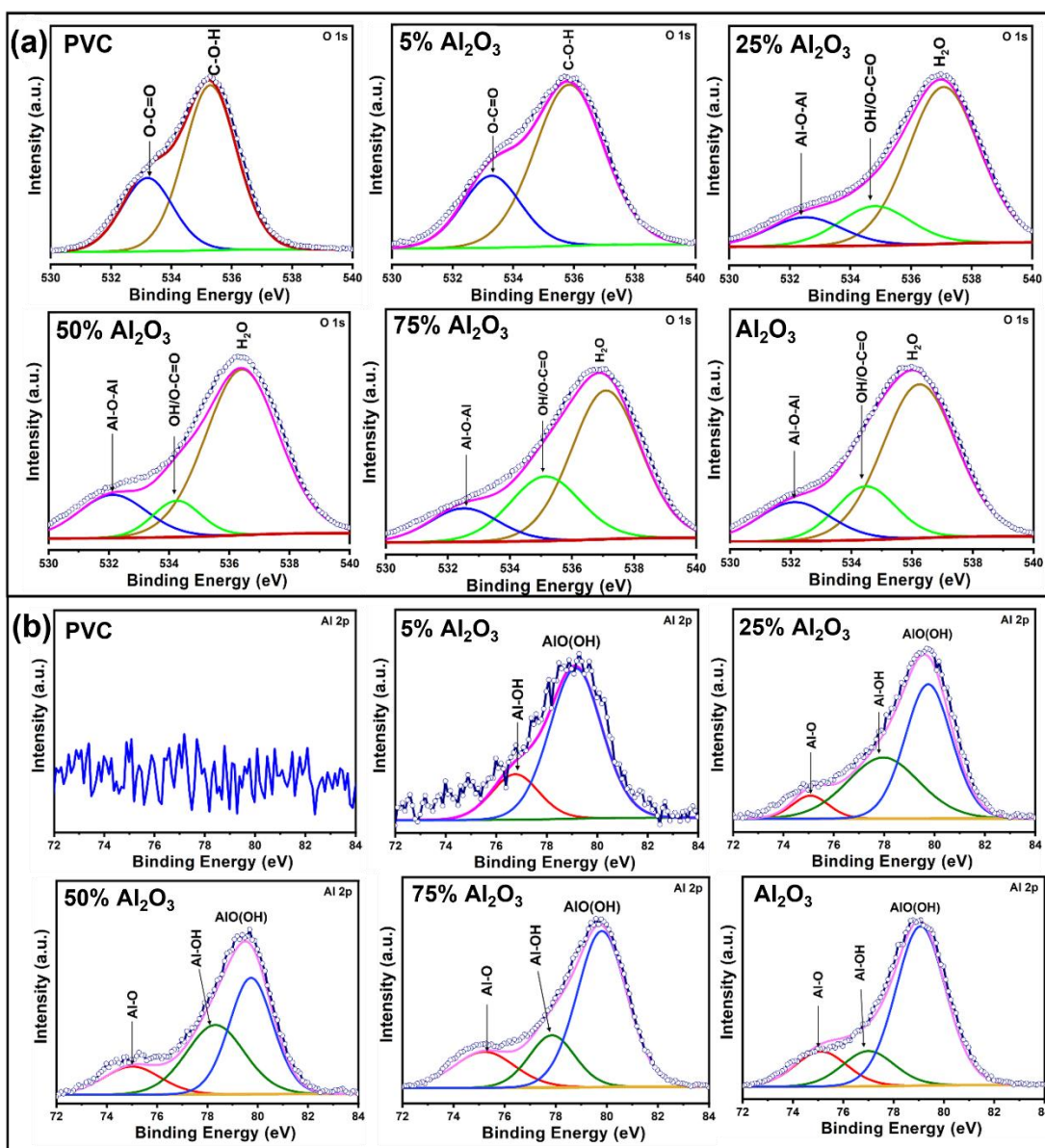


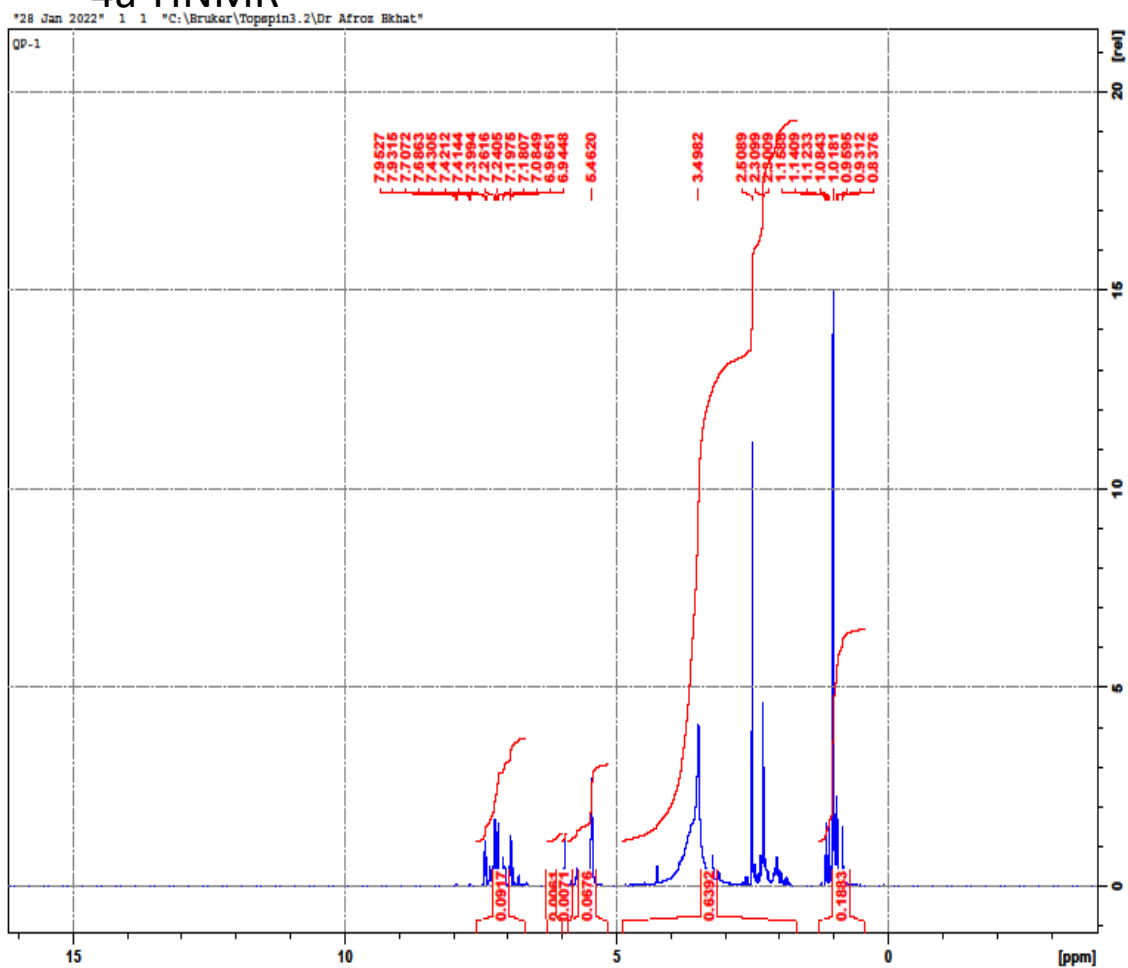
Figure S1. O1s XPS spectra (a) and C 1s (b), and Al 2p spectra of Al_2O_3 , PVC, and $\text{Al}_2\text{O}_3/\text{PVC}$ samples containing different aluminum trioxide amounts as indicated.

Table S1 the ratios of the electronic state of the elements for the as-prepared Al₂O₃/PVC catalysts

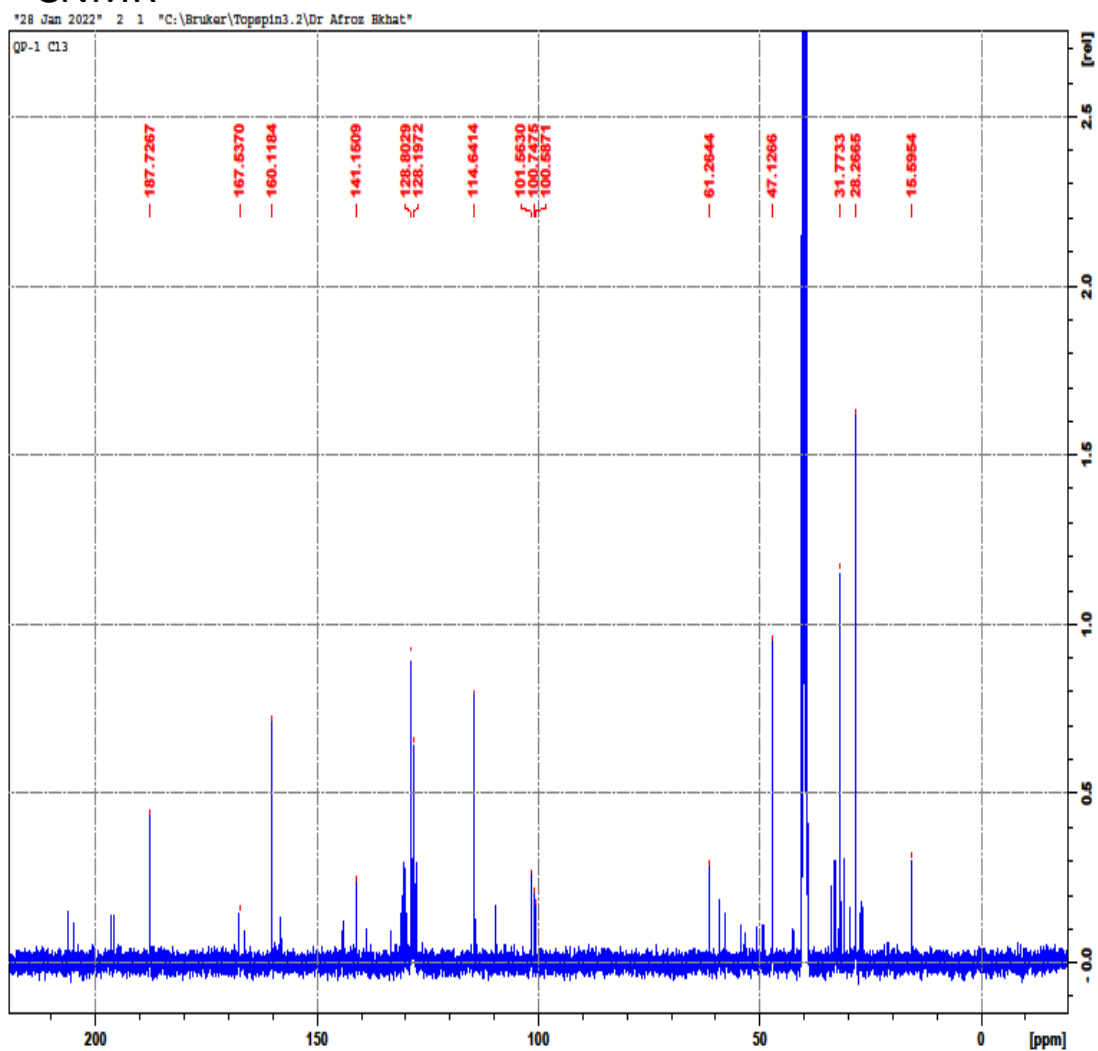
Catalyst/Atomic ratio of elements	C	Cl	O	Al	Ca	S
PVC	61.85	8.73	29.42	0	0	0
5% Al₂O₃	56.15	10.71	28.78	4.01	0	0
25% Al₂O₃	34.07	7.27	40.89	15.09	2.04	0.01
50% Al₂O₃	20.45	4.04	54.92	18.44	2.12	0.03
60% Al₂O₃	14.89	2.64	56.53	22.38	2.95	0.61
75% Al₂O₃	12.77	2.13	53.90	28.25	2.13	0.04
Al₂O₃	7.04	0	63.46	27.38	2.08	0.03

NMR Spectra of Synthesized Compounds 4a-h

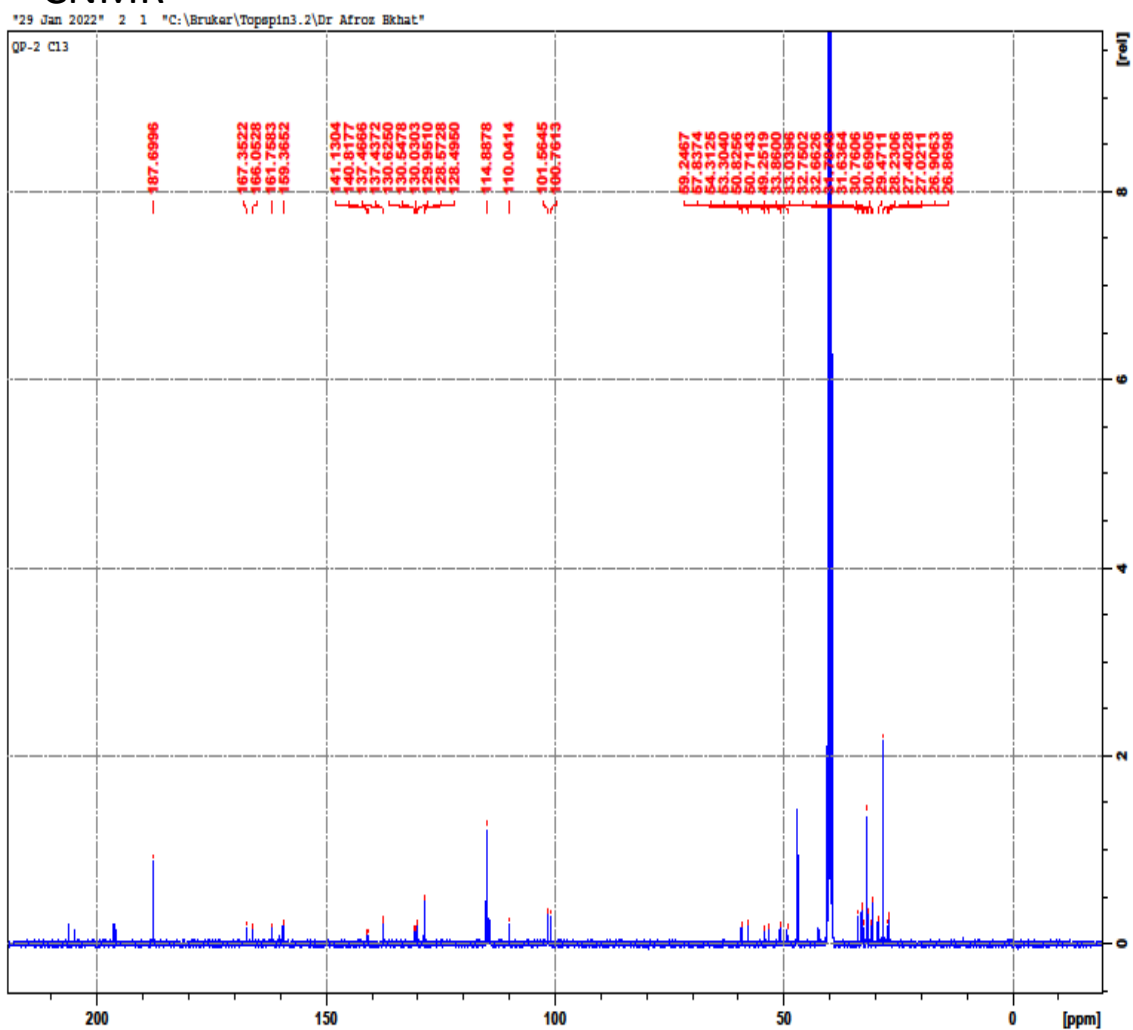
4a-HNMR



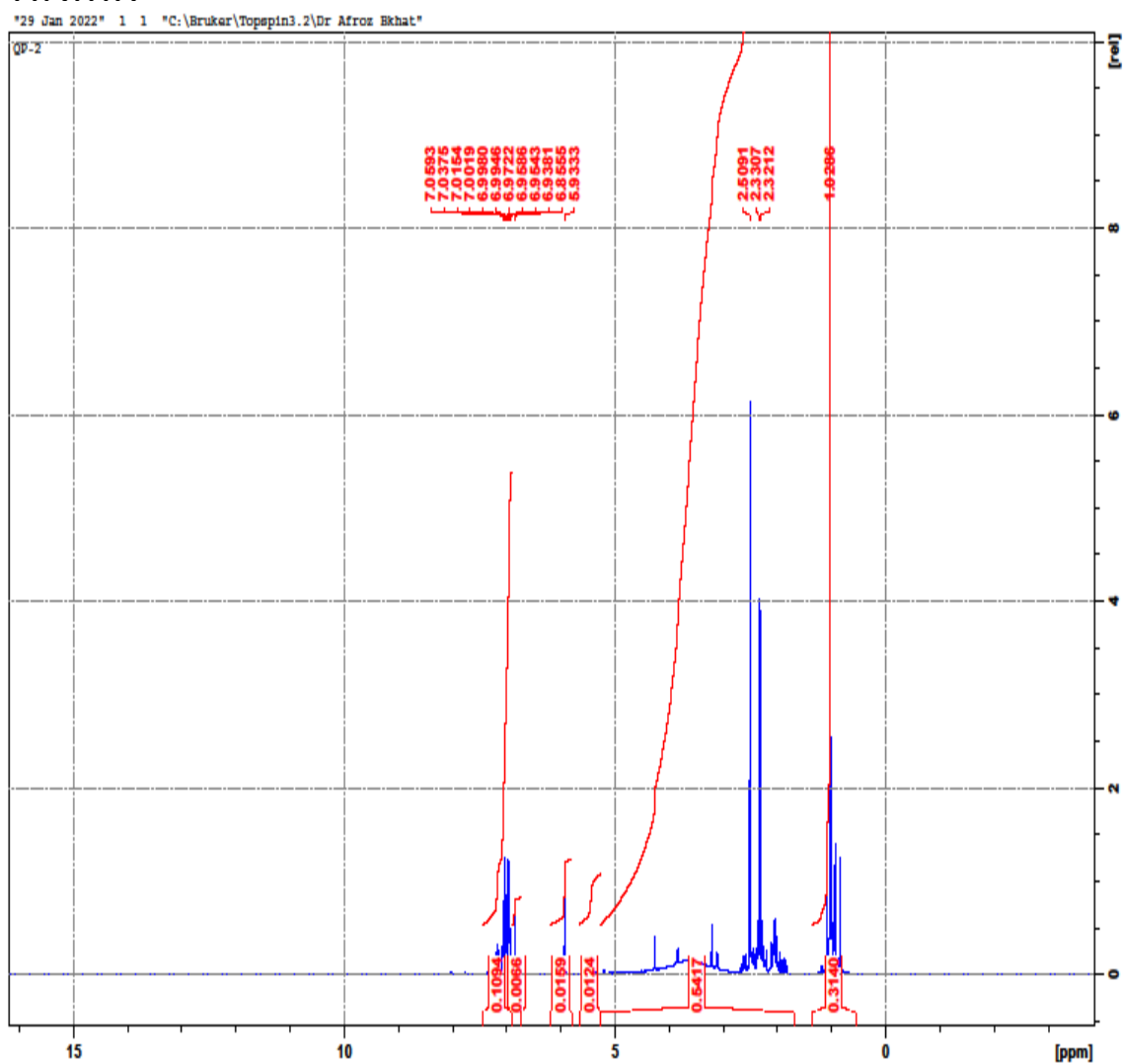
4a-¹³CNMR



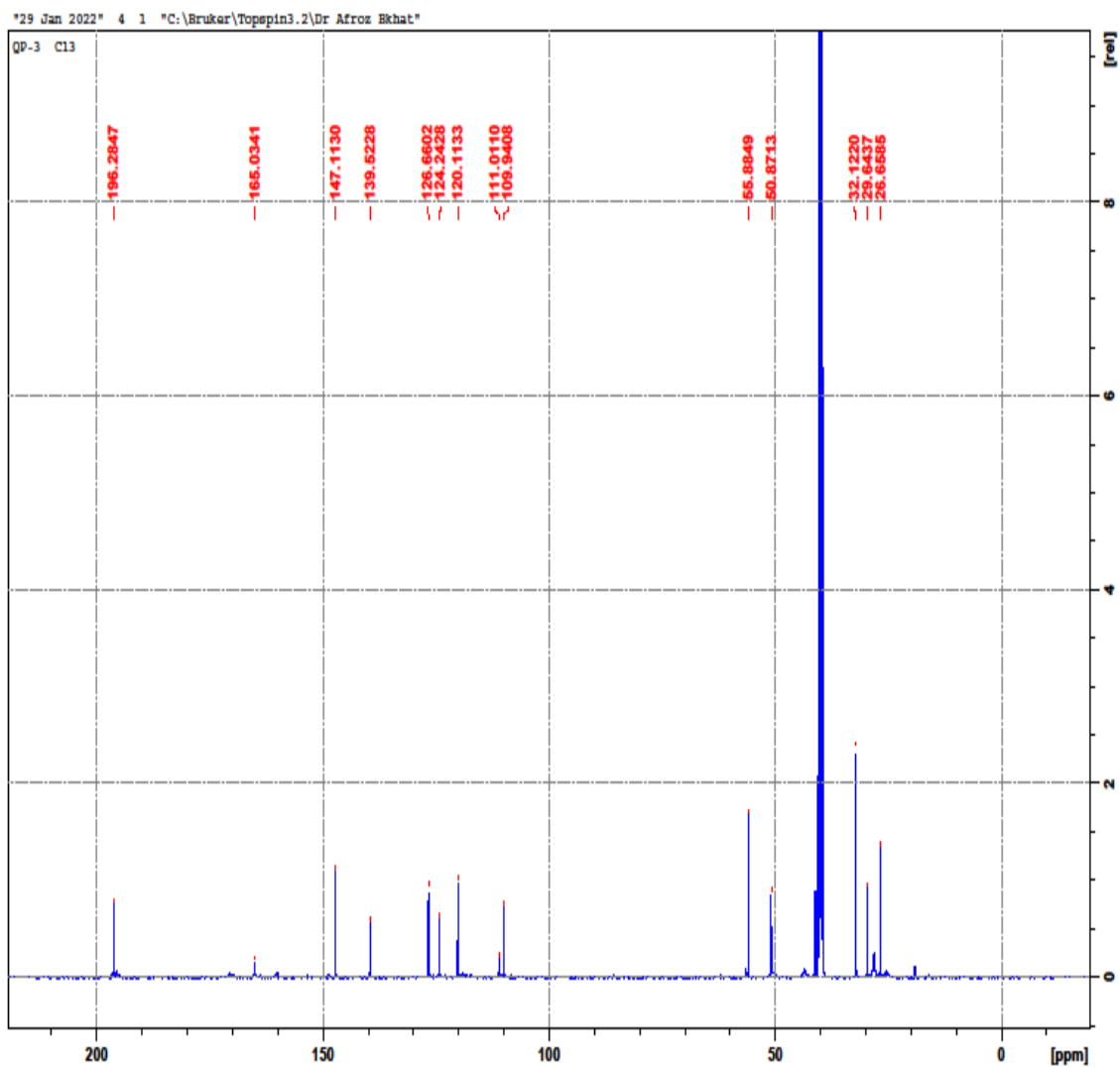
4b-¹³CNMR



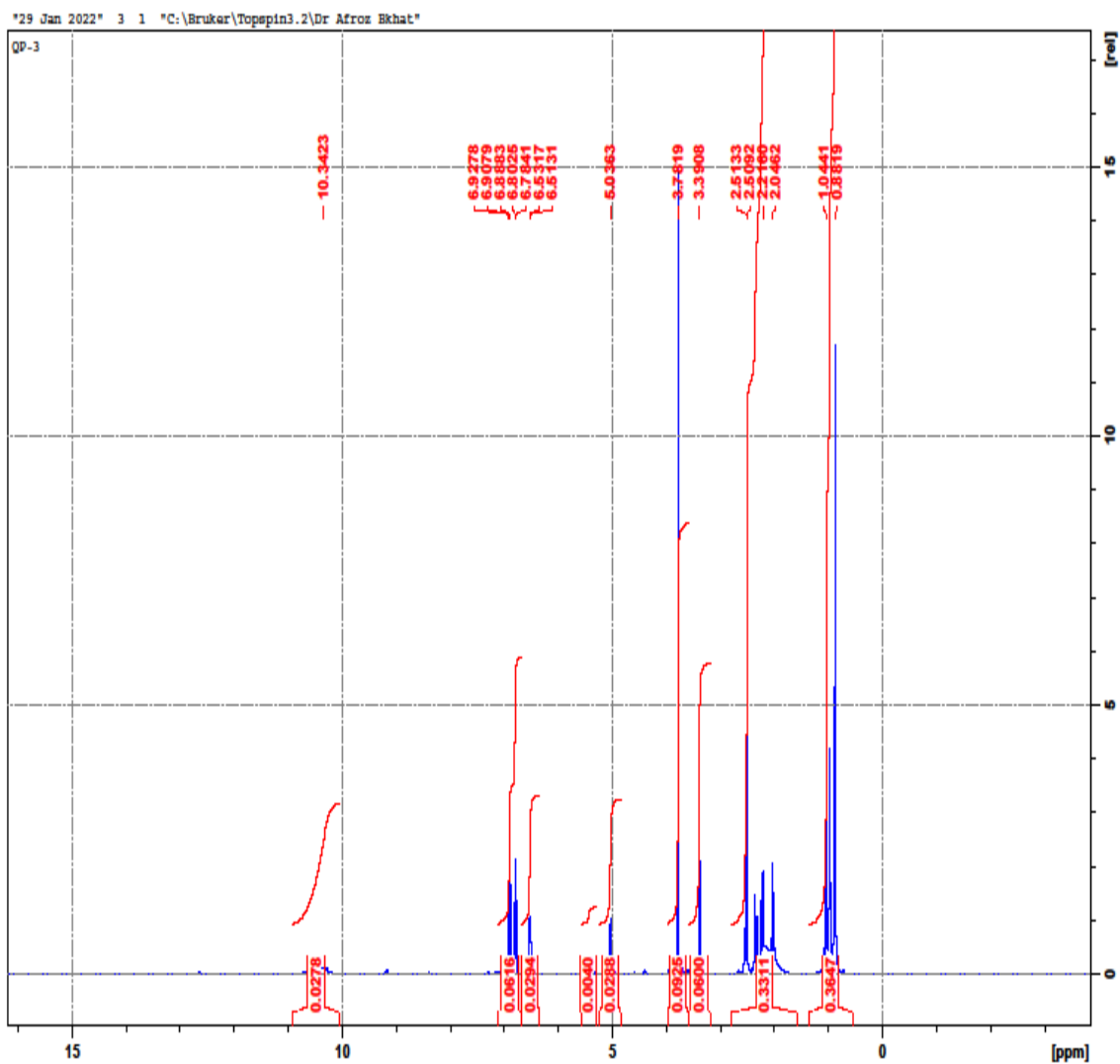
4b-HNMR



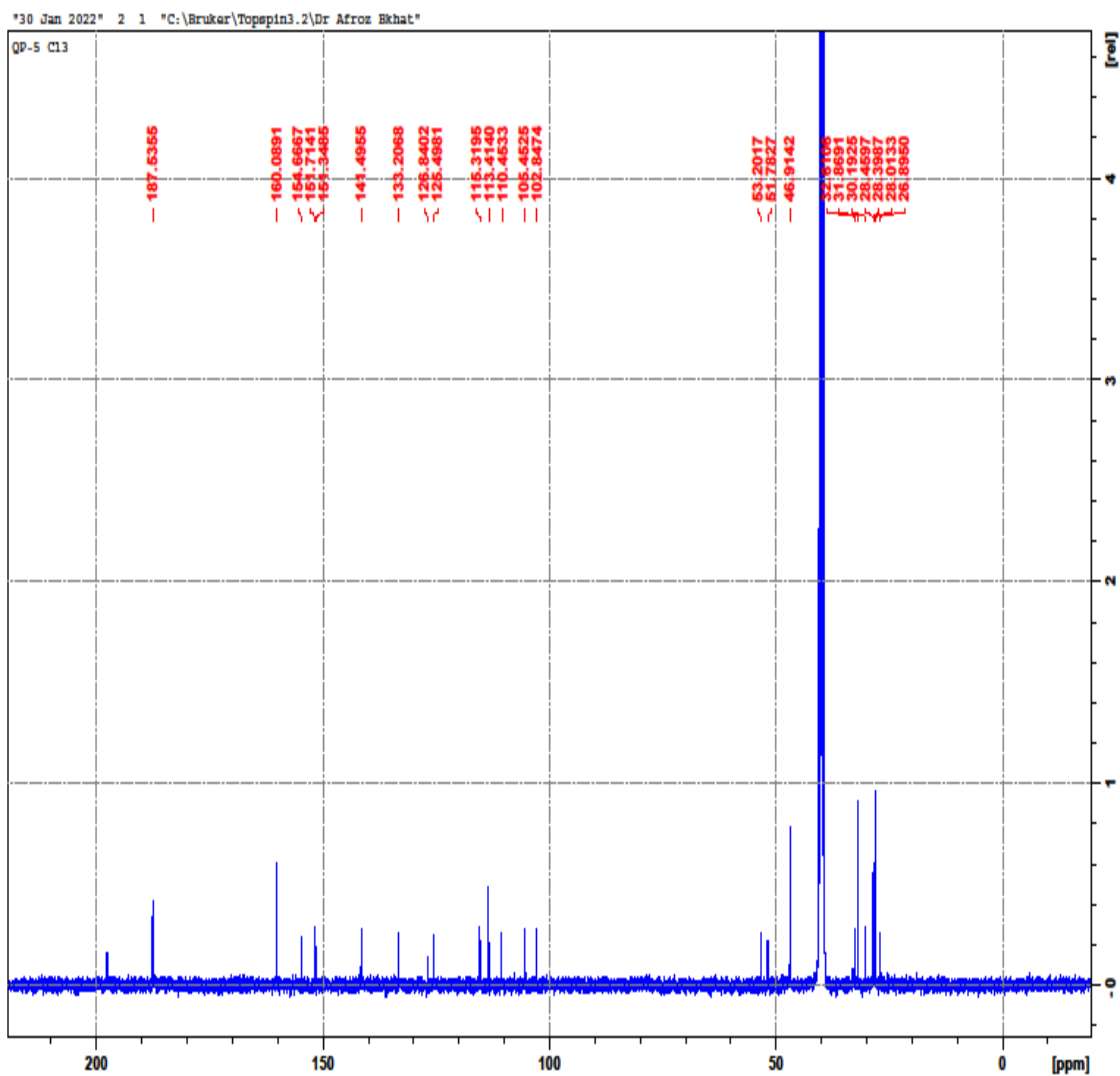
4c-¹³CNMR



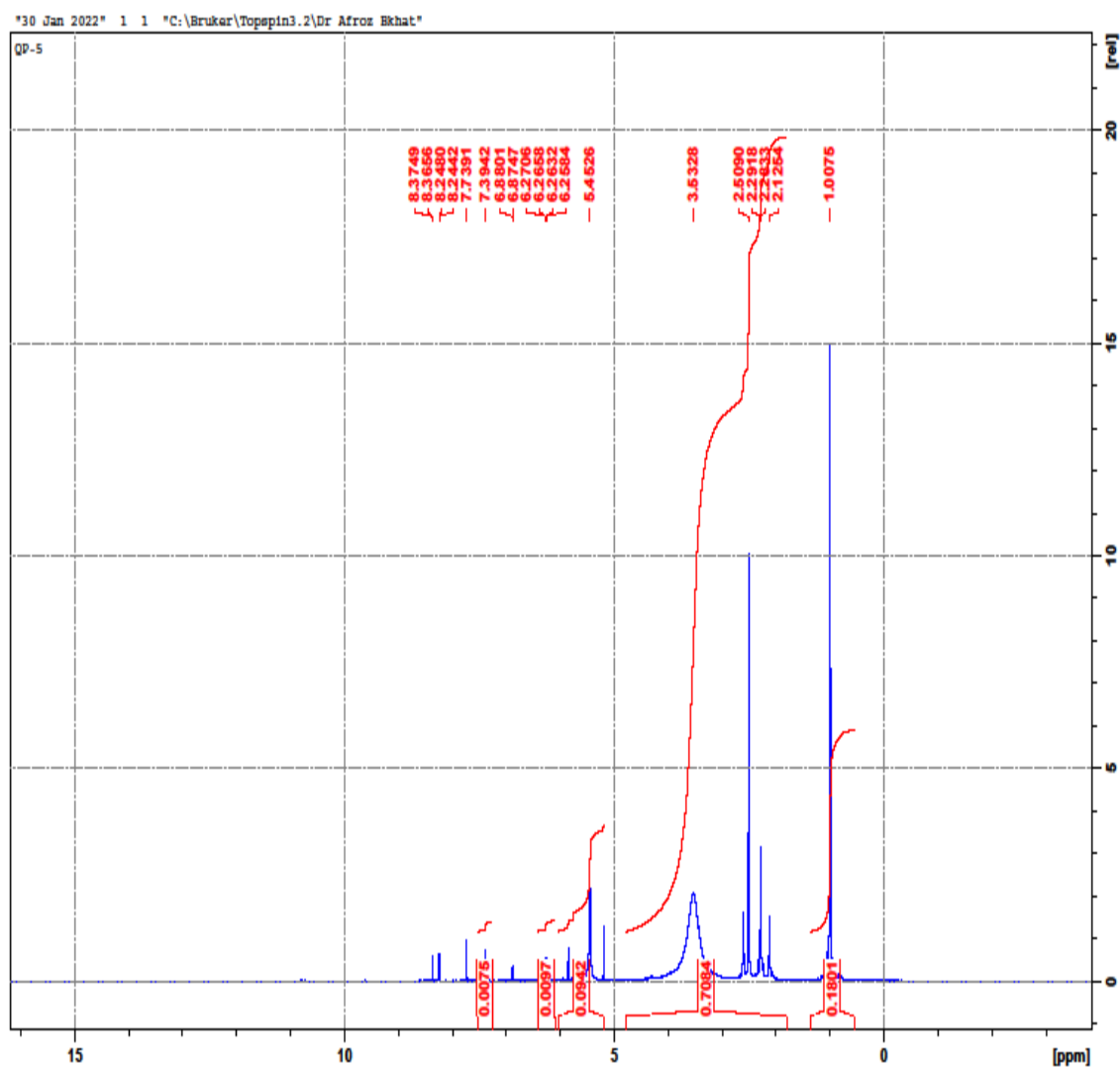
4c-HNMR



4d-¹³CNMR

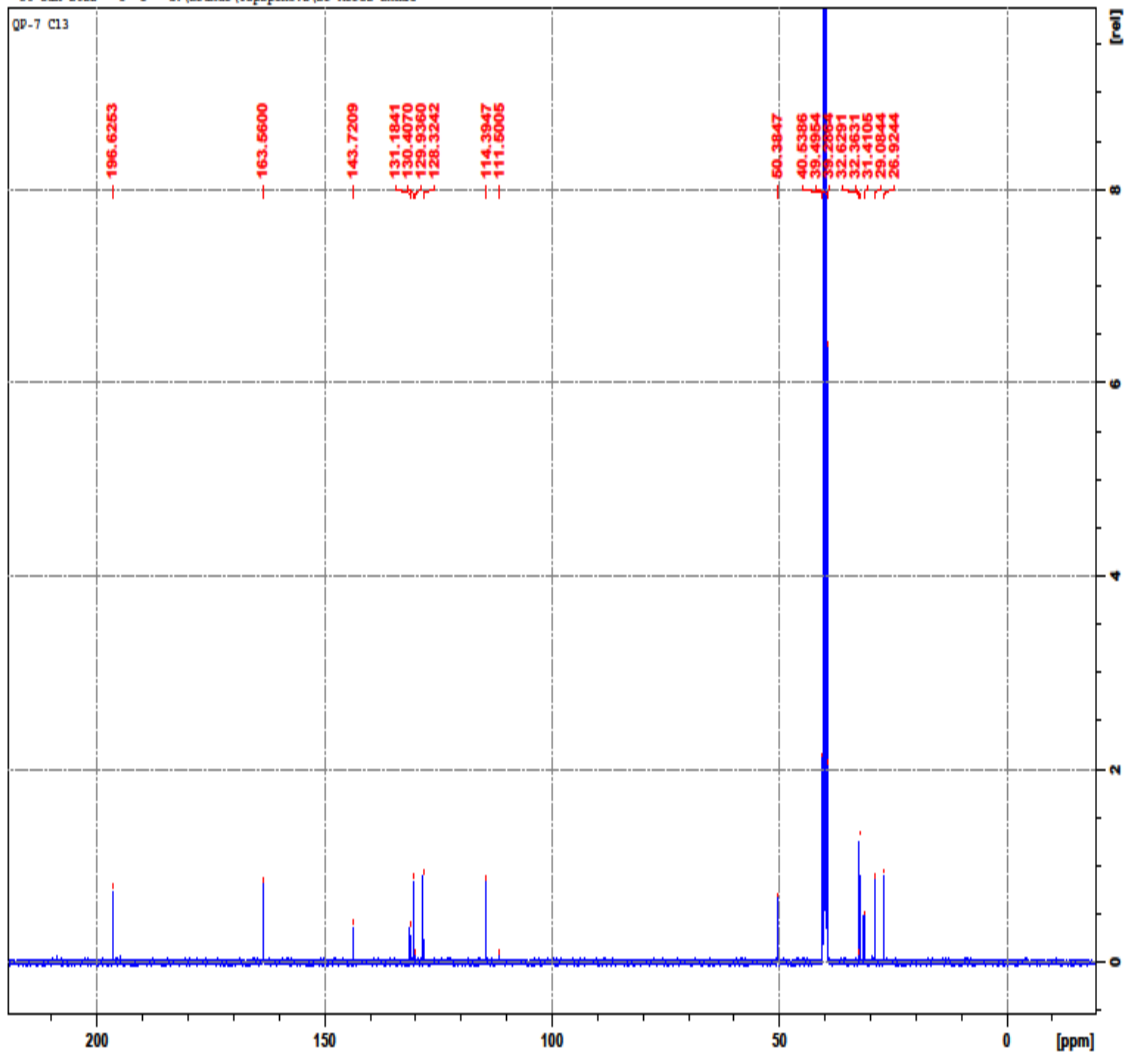


4d-HNMR



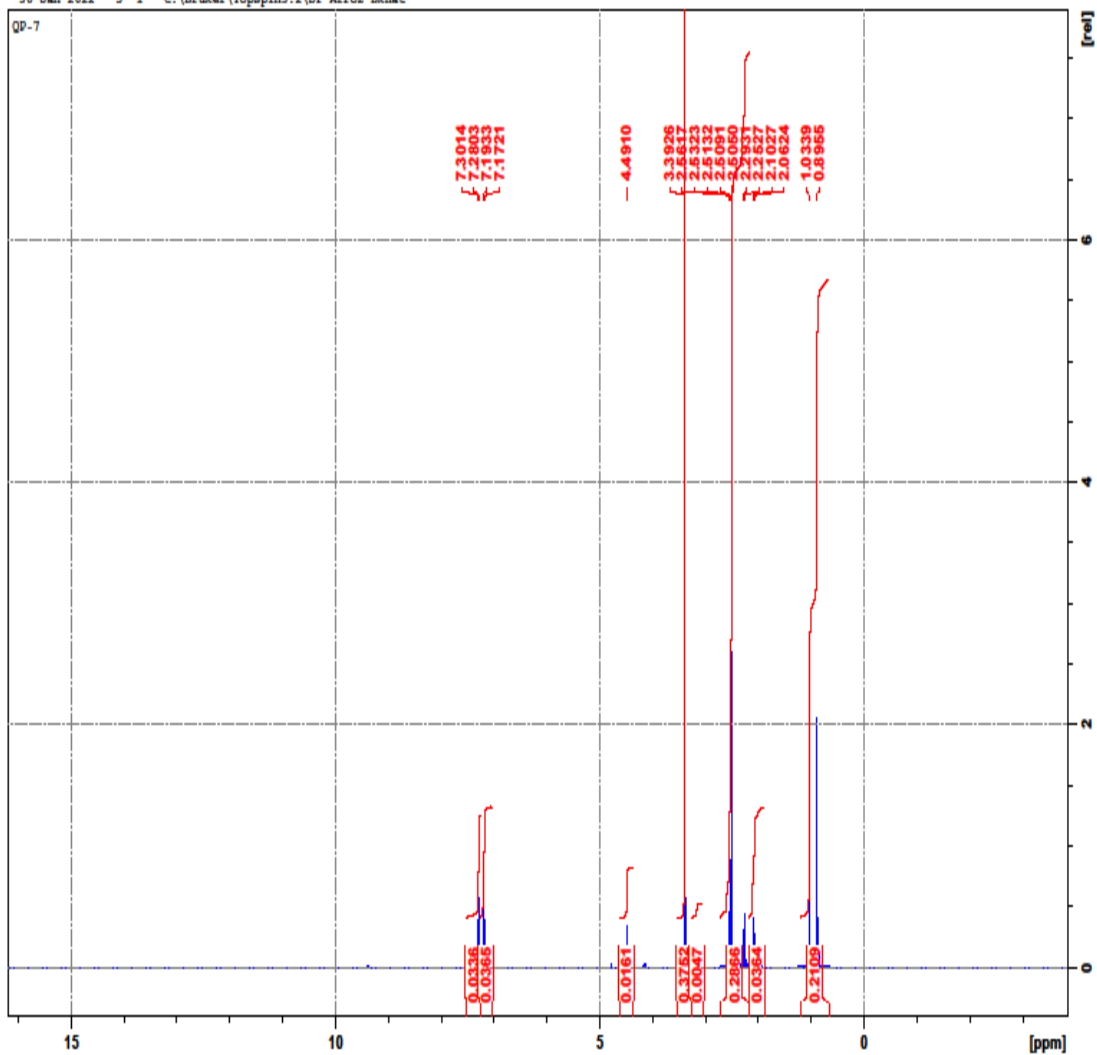
4e-¹³CNMR

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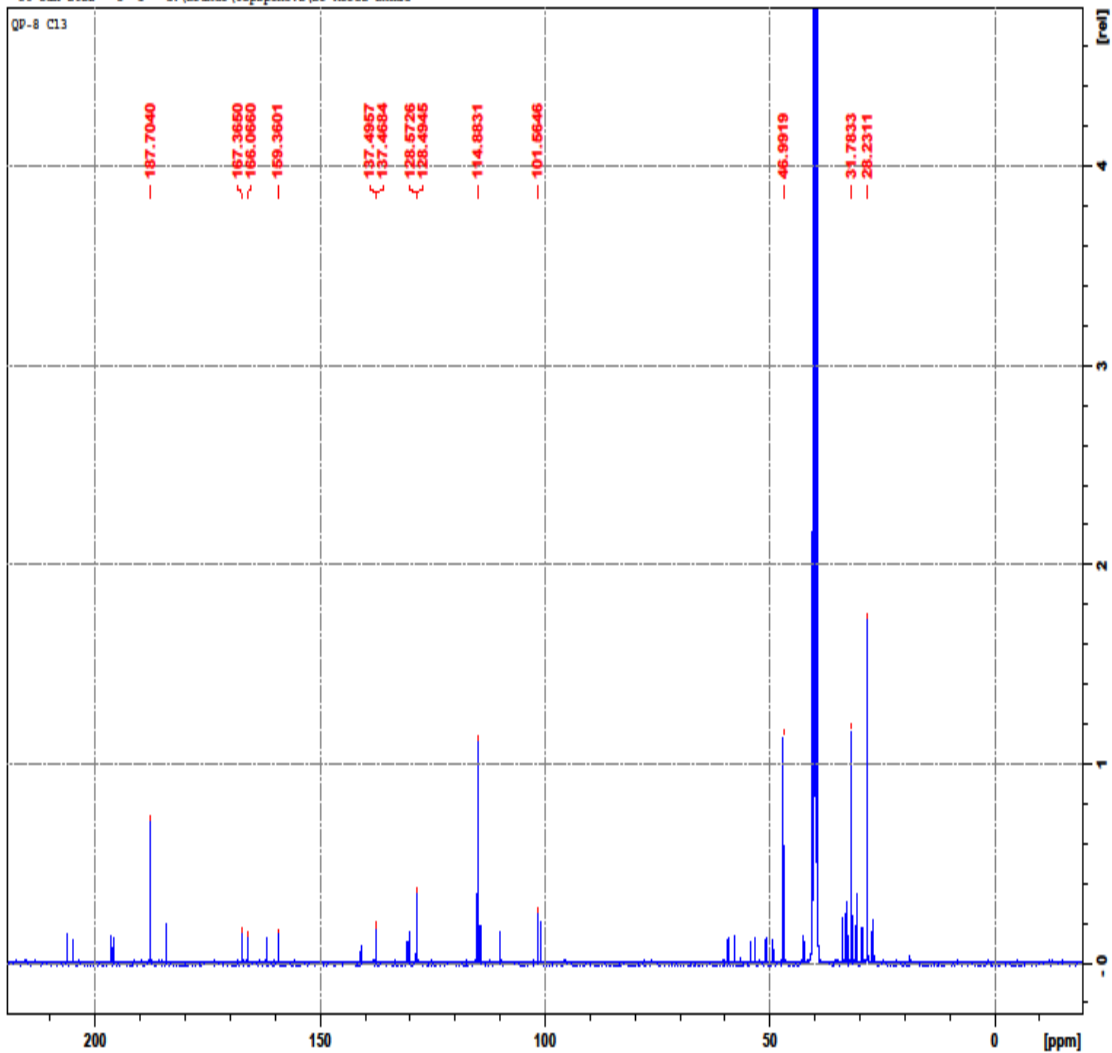
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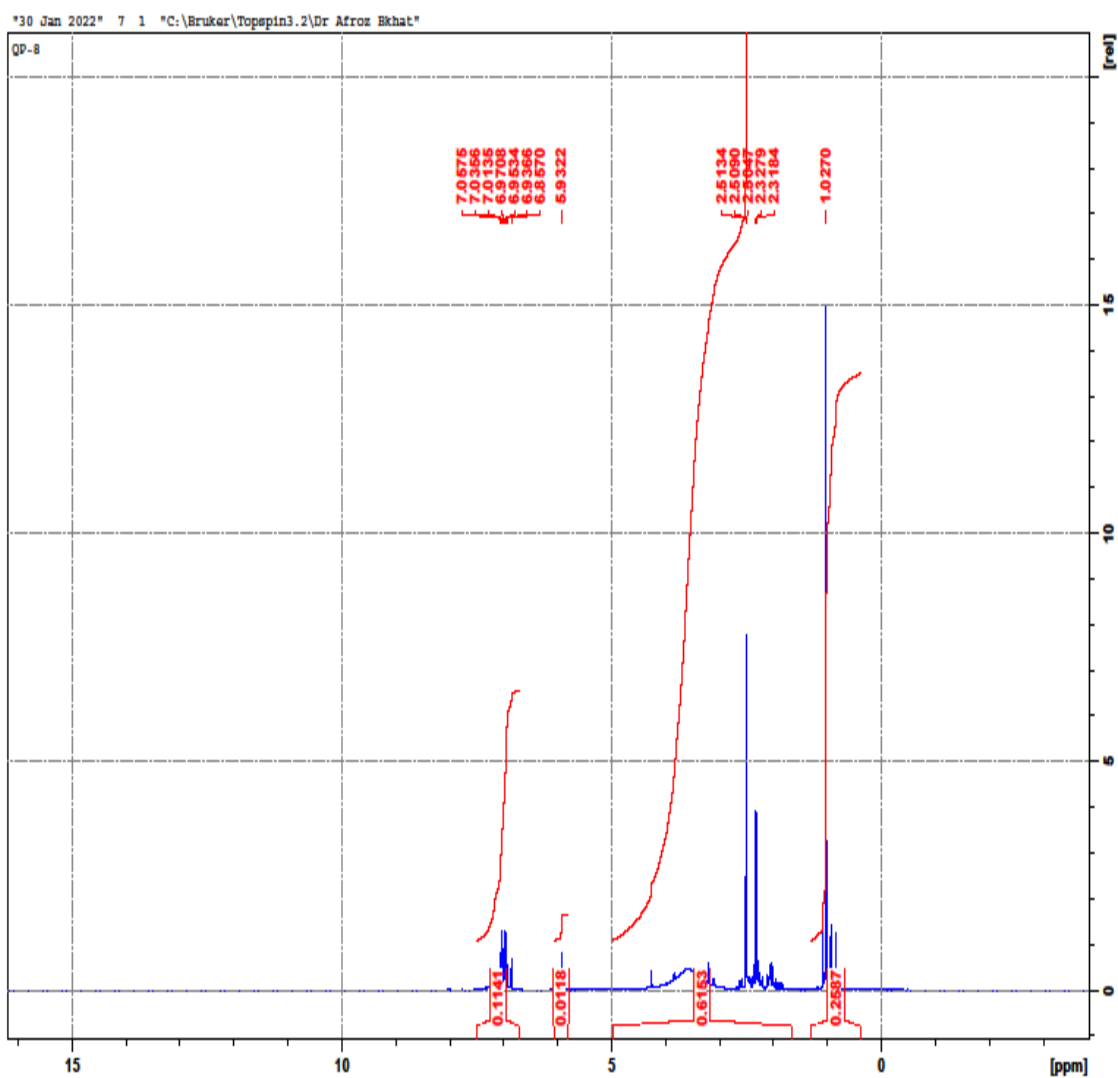


4f-¹³CNMR

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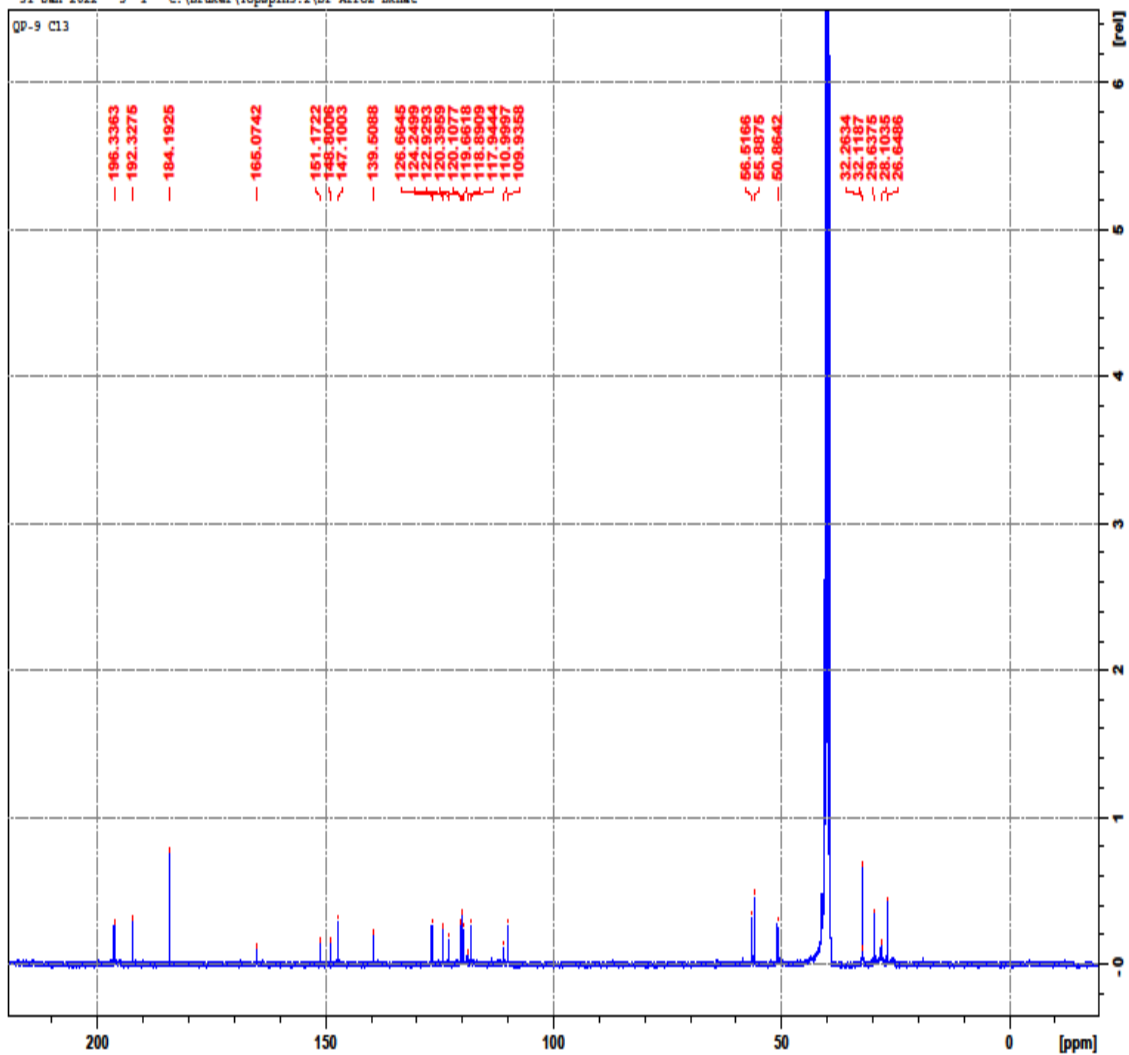


4f-HNMR

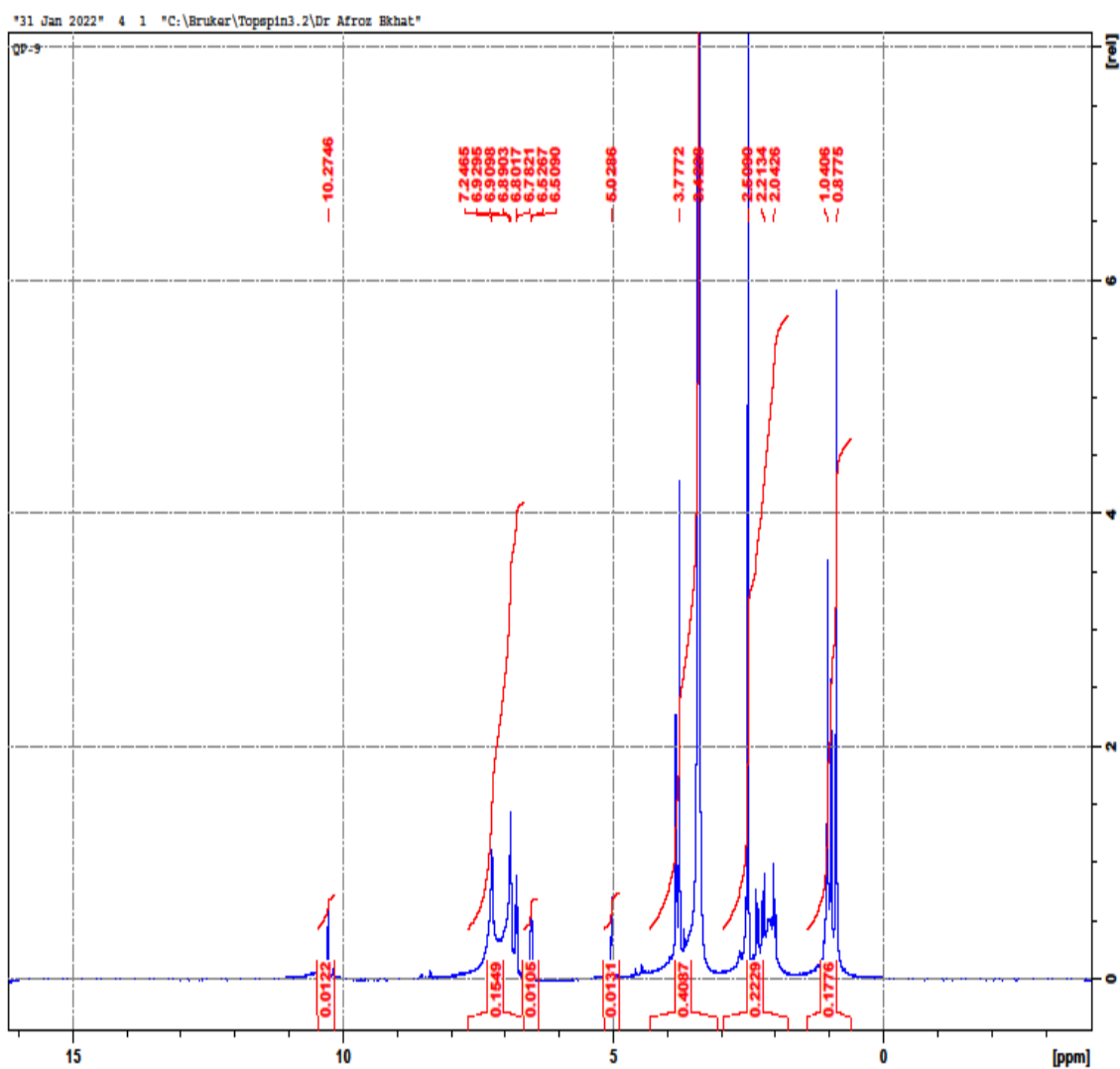


4g-¹³CNMR

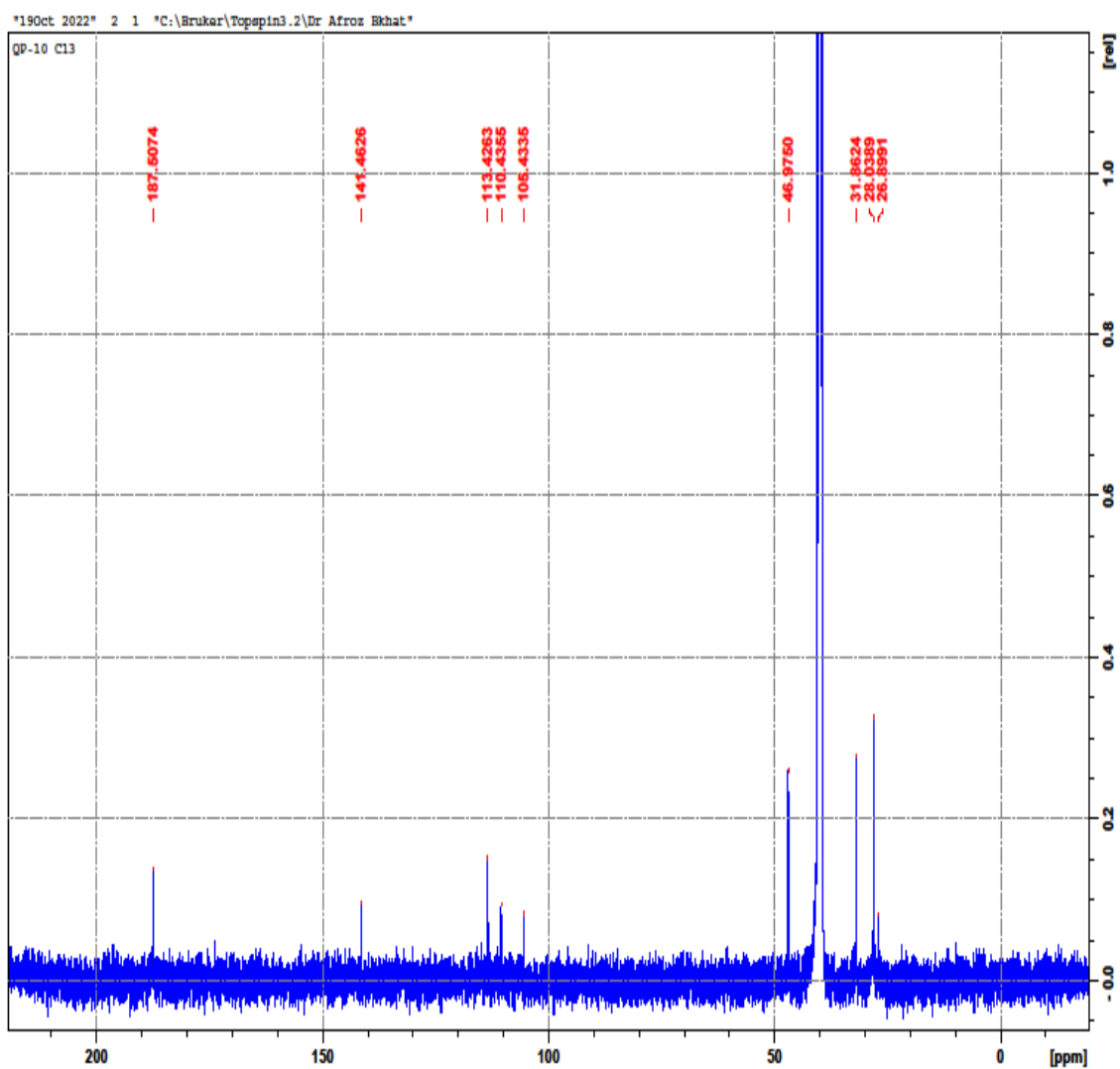
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4g-HNMR



4h-¹³CNMR



4h-HNMR

