

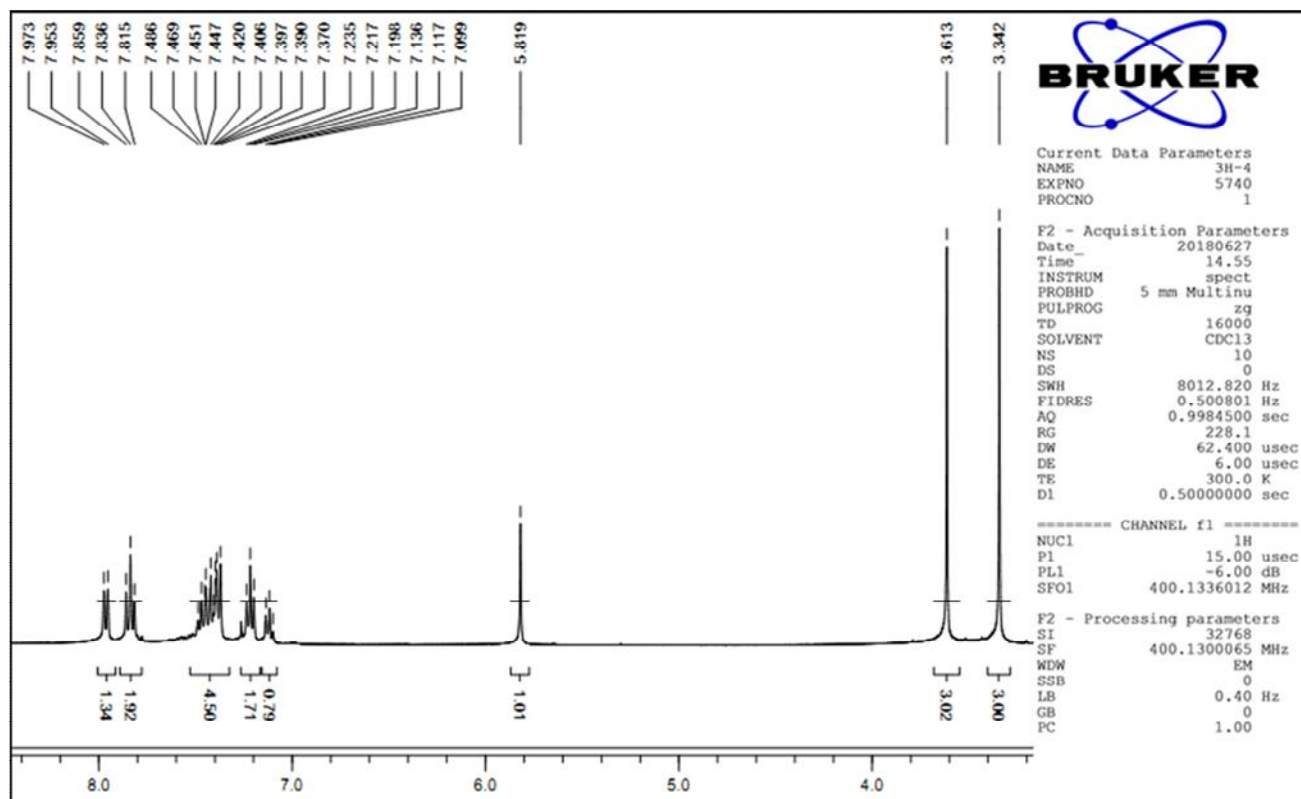
## Supporting Information

**Graphitic-carbon nitride supported neodymium oxide as an efficient recyclable nanocatalyst for one-pot synthesis of diazabenz[a]anthraceneones**

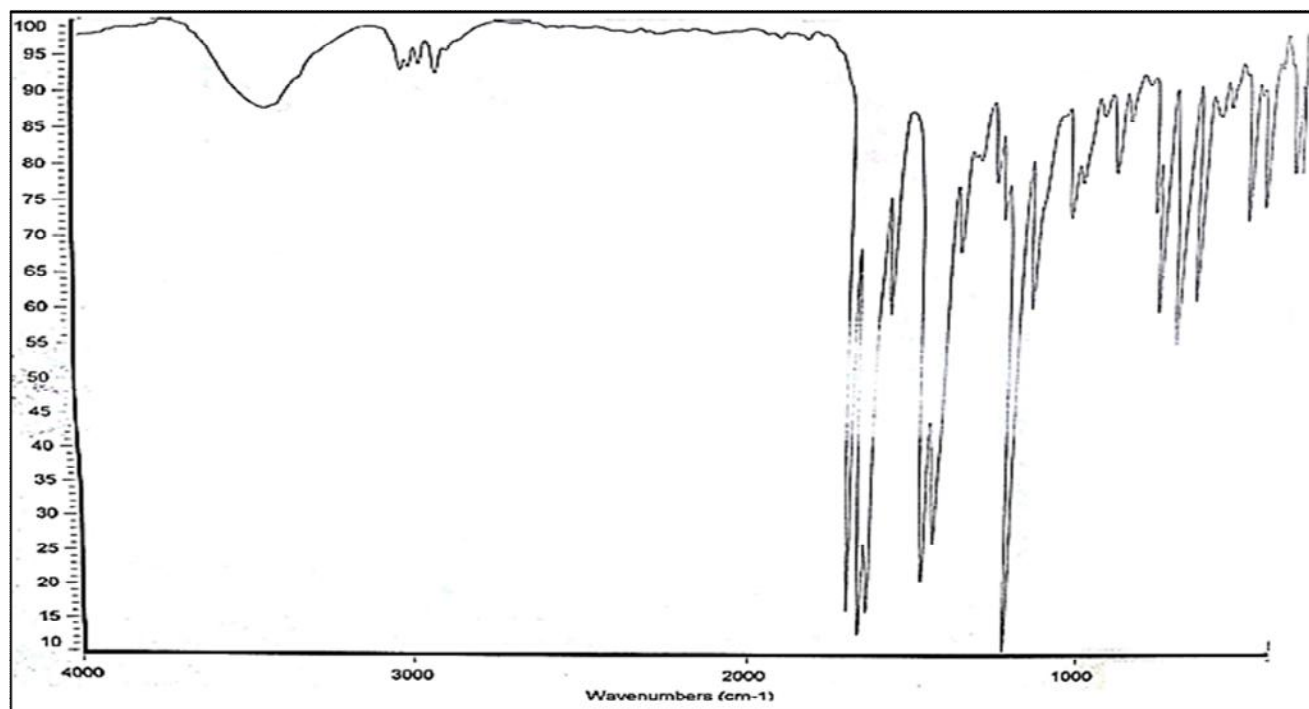
Soraya Rahmatinejad, Hossein Naeimi\*

Department of Organic Chemistry, Faculty of Chemistry, University of Kashan, Kashan

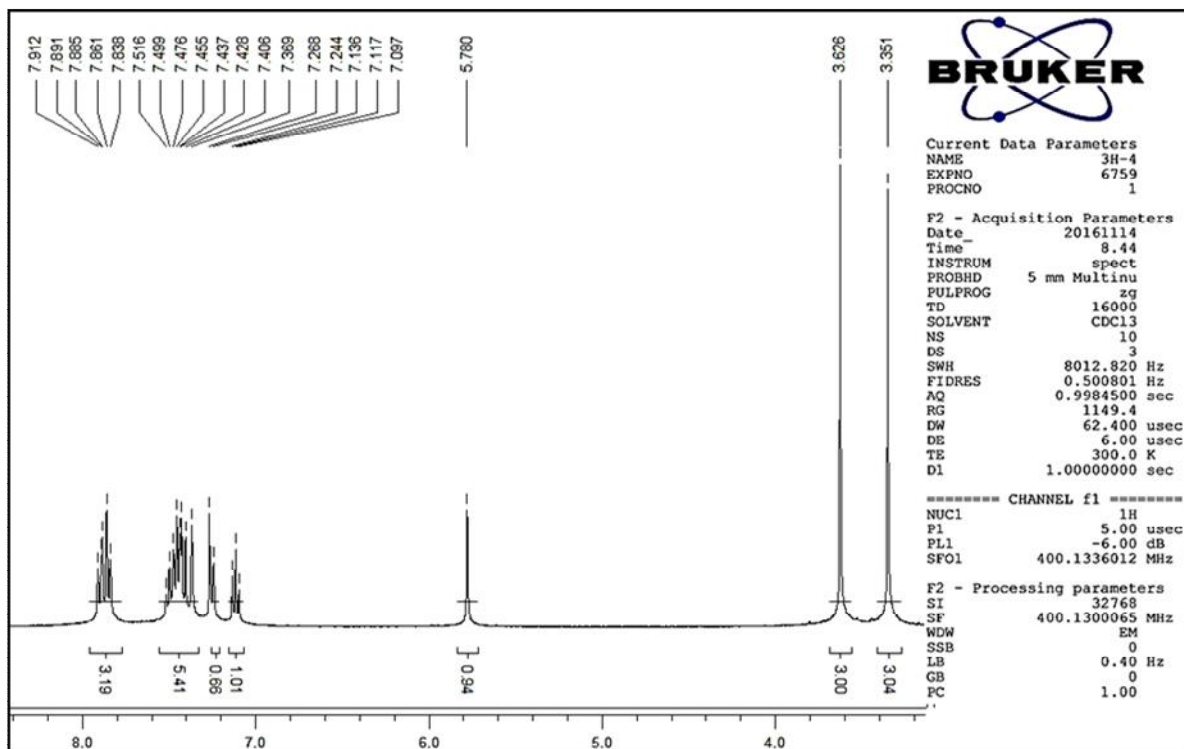
87317-51167, I.R. Iran; Tel: 983155912388; Fax: 983155912397; E-mail: [naeimi@kashanu.ac.ir](mailto:naeimi@kashanu.ac.ir)



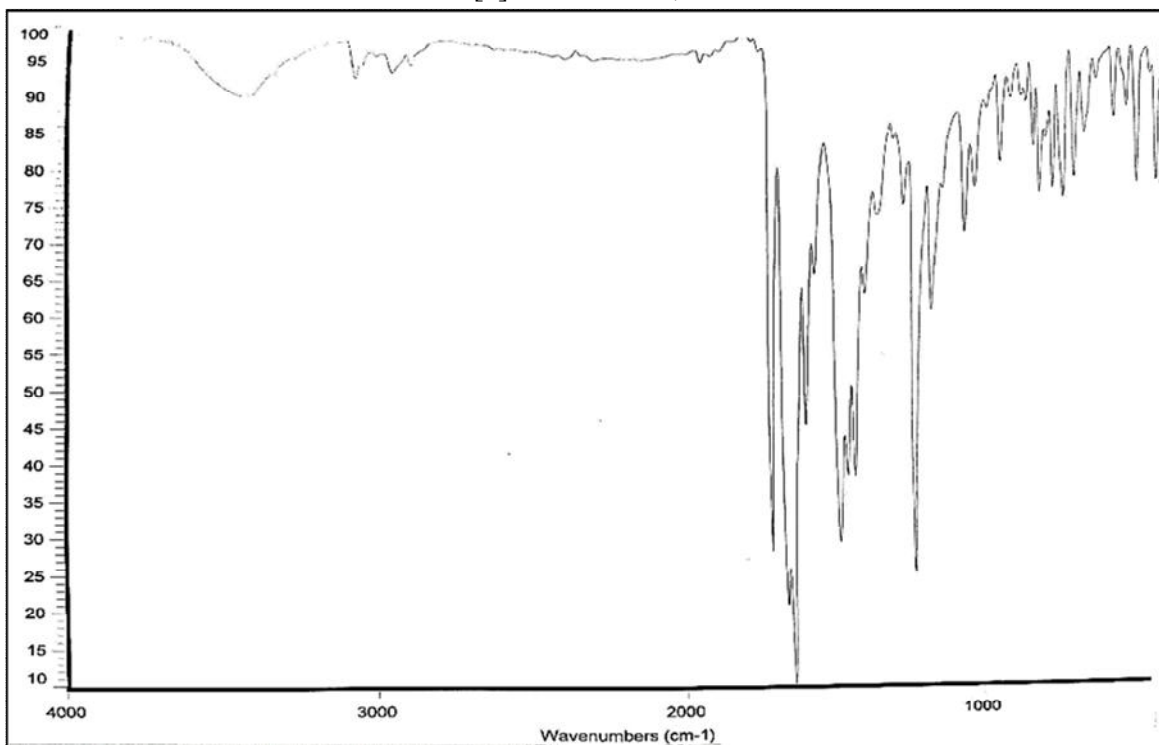
<sup>1</sup>H NMR of 8,10-Dimethyl-12-phenyl-8,12-dihydro-7-oxa-8,10-diaza-benzo[a]anthracene-9,11-dione



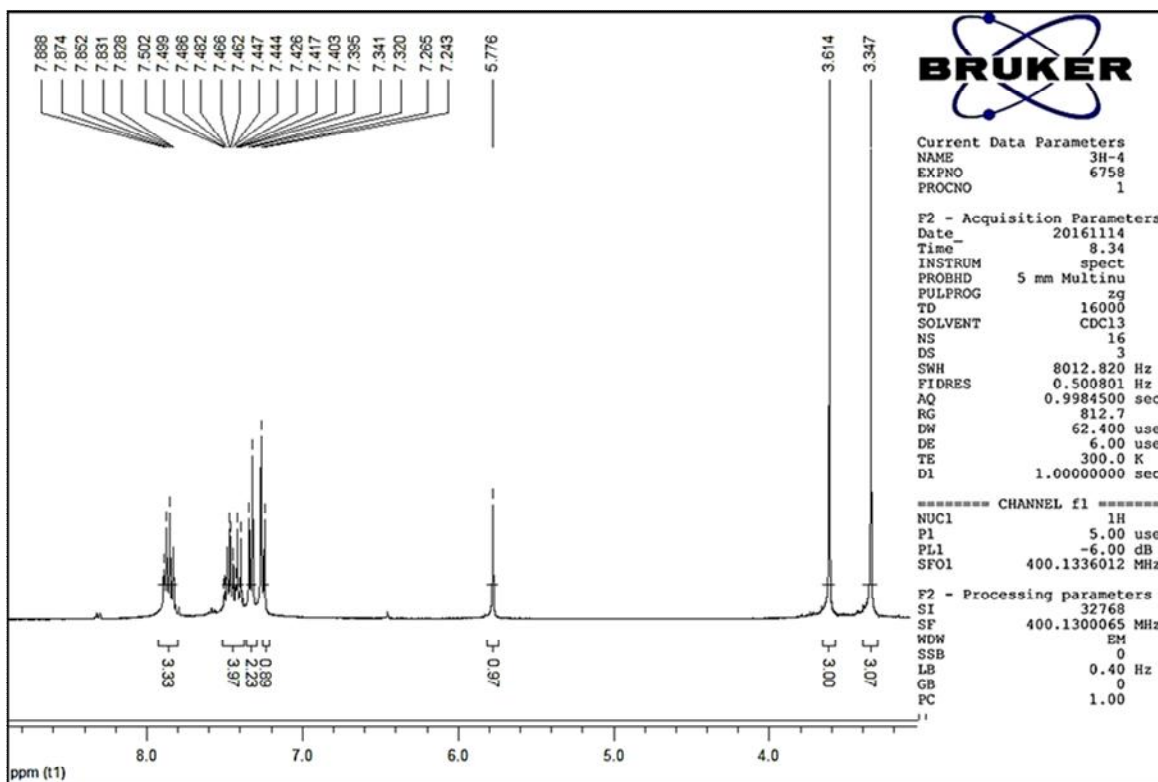
IR of 8,10-Dimethyl-12-phenyl-8,12-dihydro-7-oxa-8,10-diaza-benzo[a]anthracene-9,11-dione



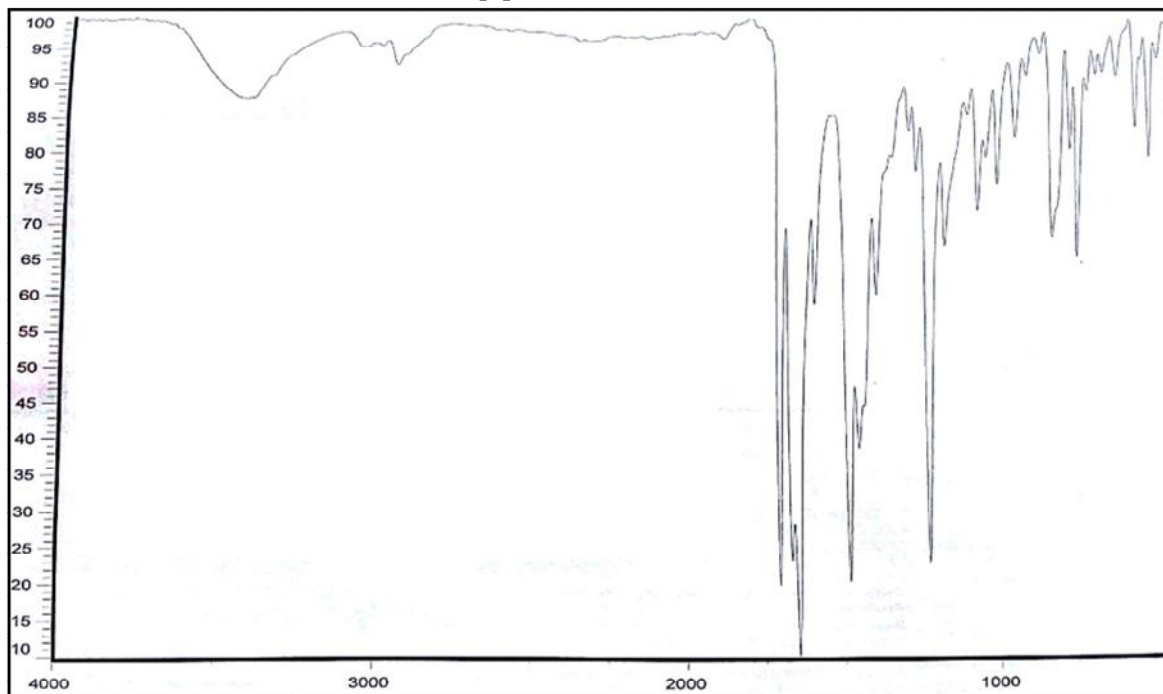
<sup>1</sup>H NMR of 12-(3-Bromo-phenyl)-8,10-dimethyl-8,12-dihydro-7-oxa-8,10-diaza-benzo[a]anthracene-9,11-dione

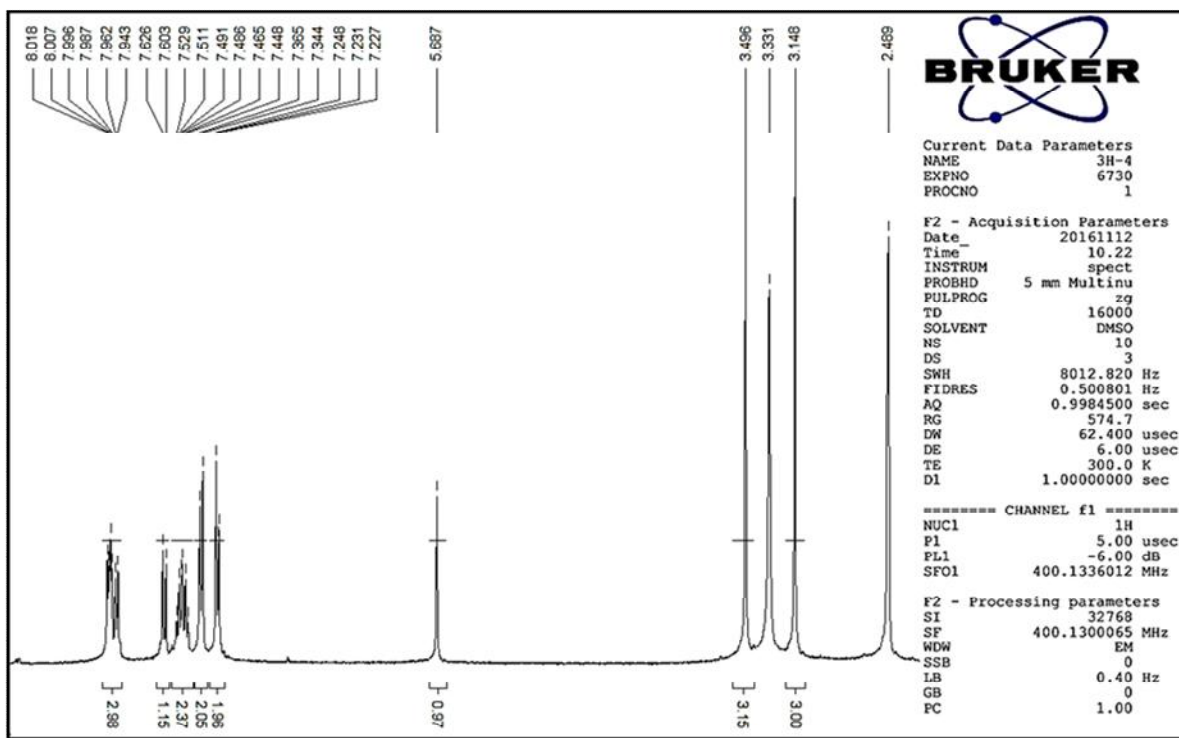


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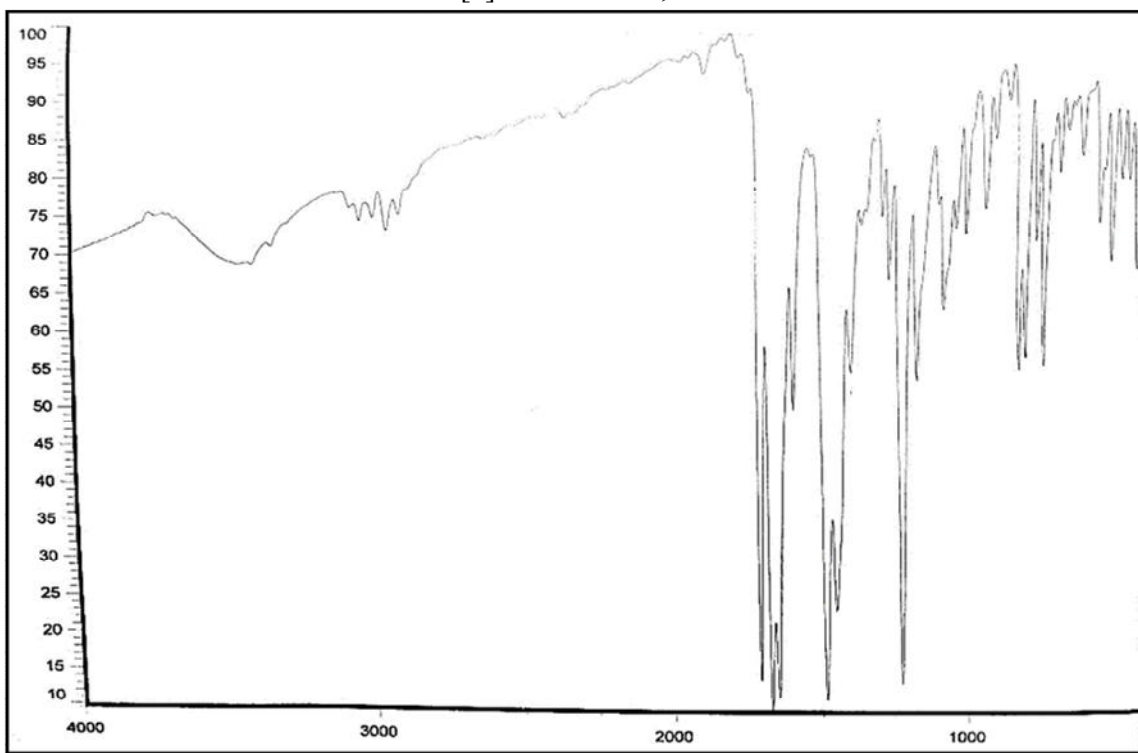


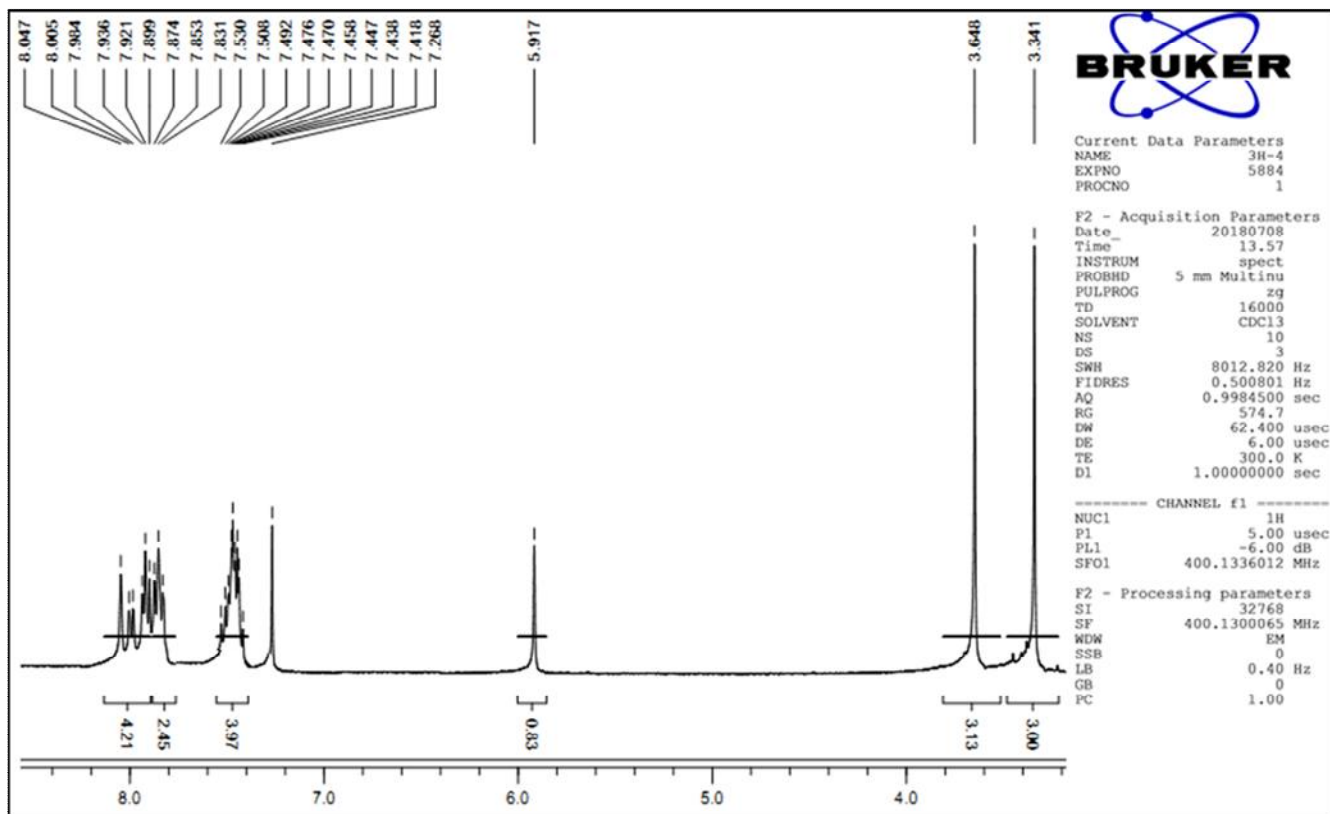
<sup>1</sup>H NMR of 12-(4-Bromo-phenyl)-8,10-dimethyl-8,12-dihydro-7-oxa-8,10-diaza-benzo[a]anthracene-9,11-dione



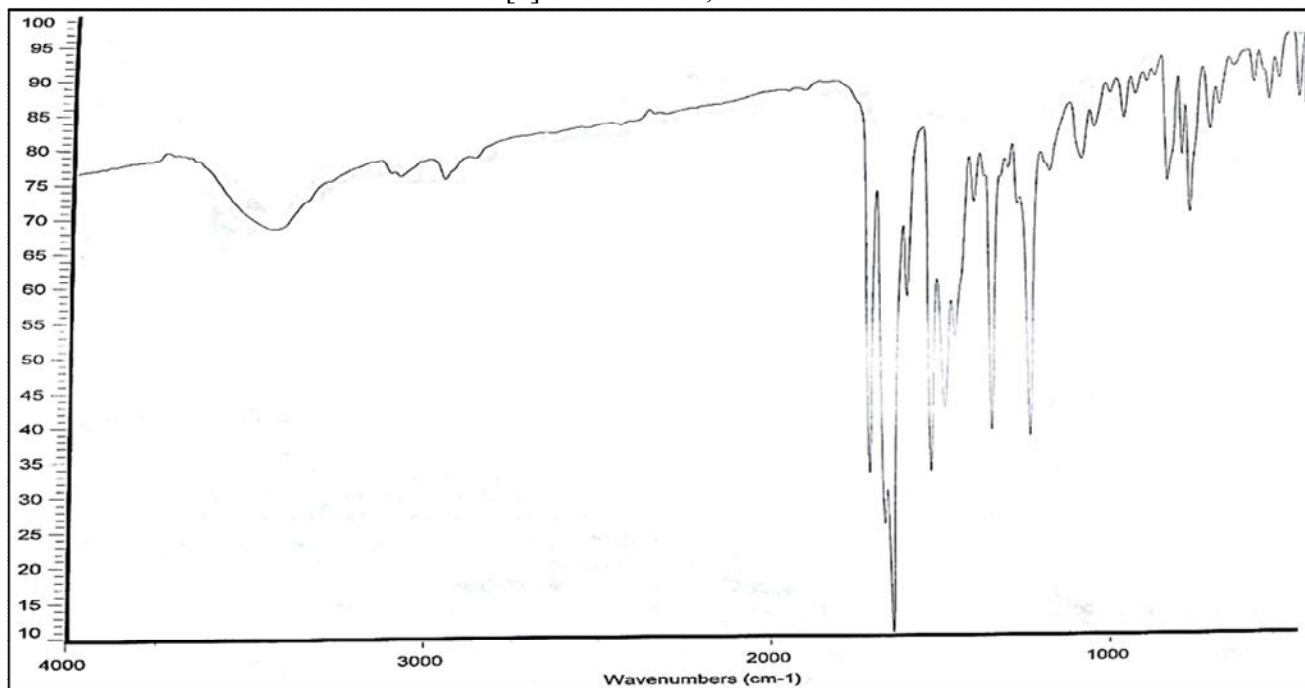


<sup>1</sup>H NMR of 12-(4-Chloro-phenyl)-8,10-dimethyl-8,12-dihydro-7-oxa-8,10-diaza-benzo[a]anthracene-9,11-dione

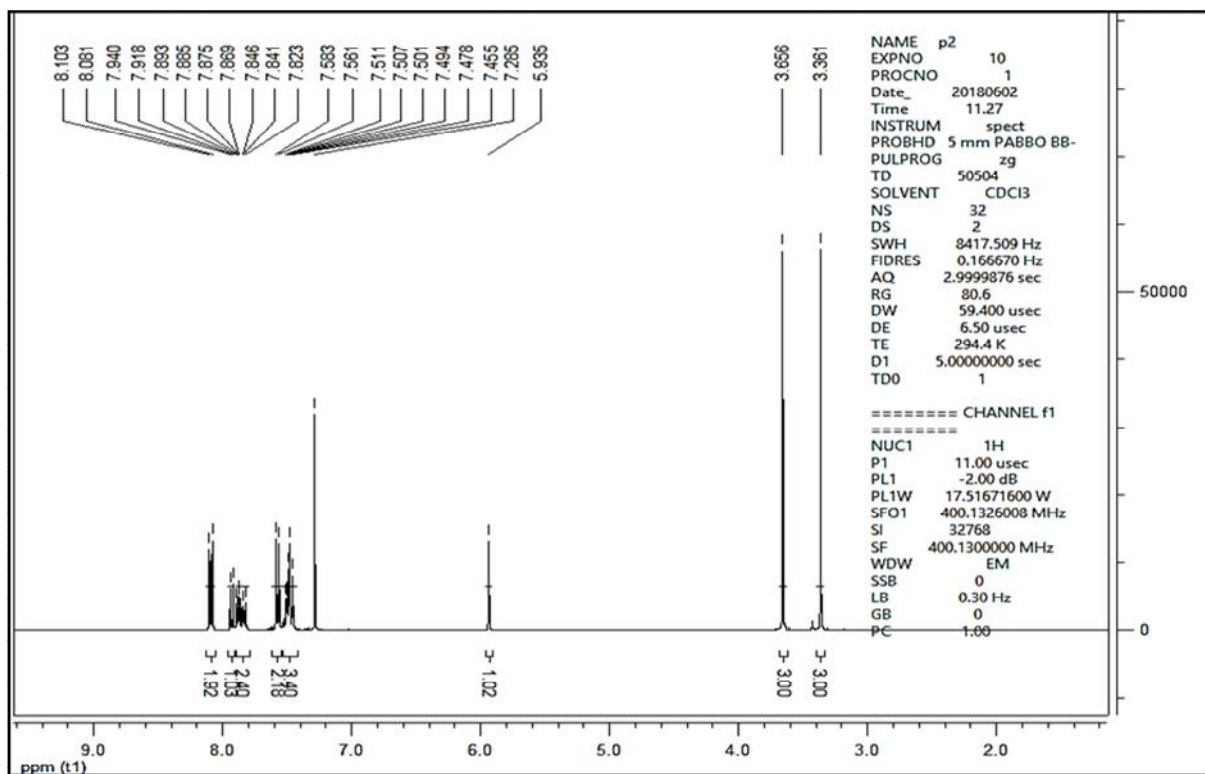




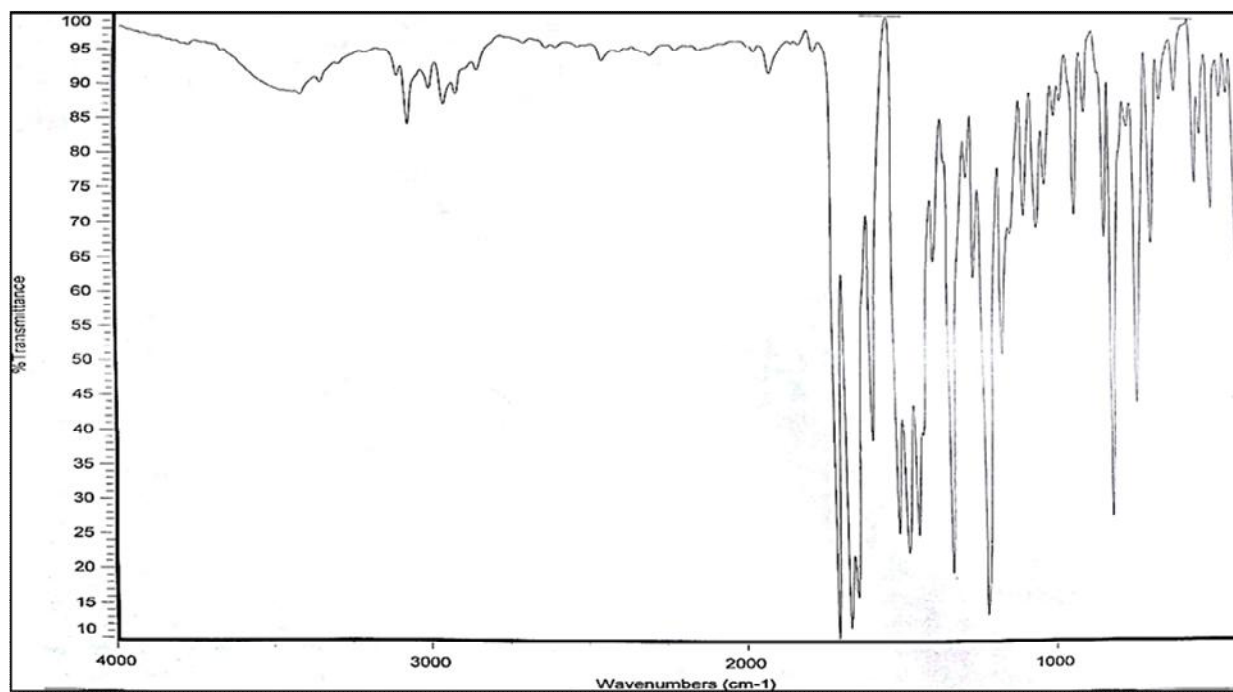
<sup>1</sup>H NMR of 8,10-Dimethyl-12-(3-nitro-phenyl)-8,12-dihydro-7-oxa-8,10-diaza-benzo[a]anthracene-9,11-dione



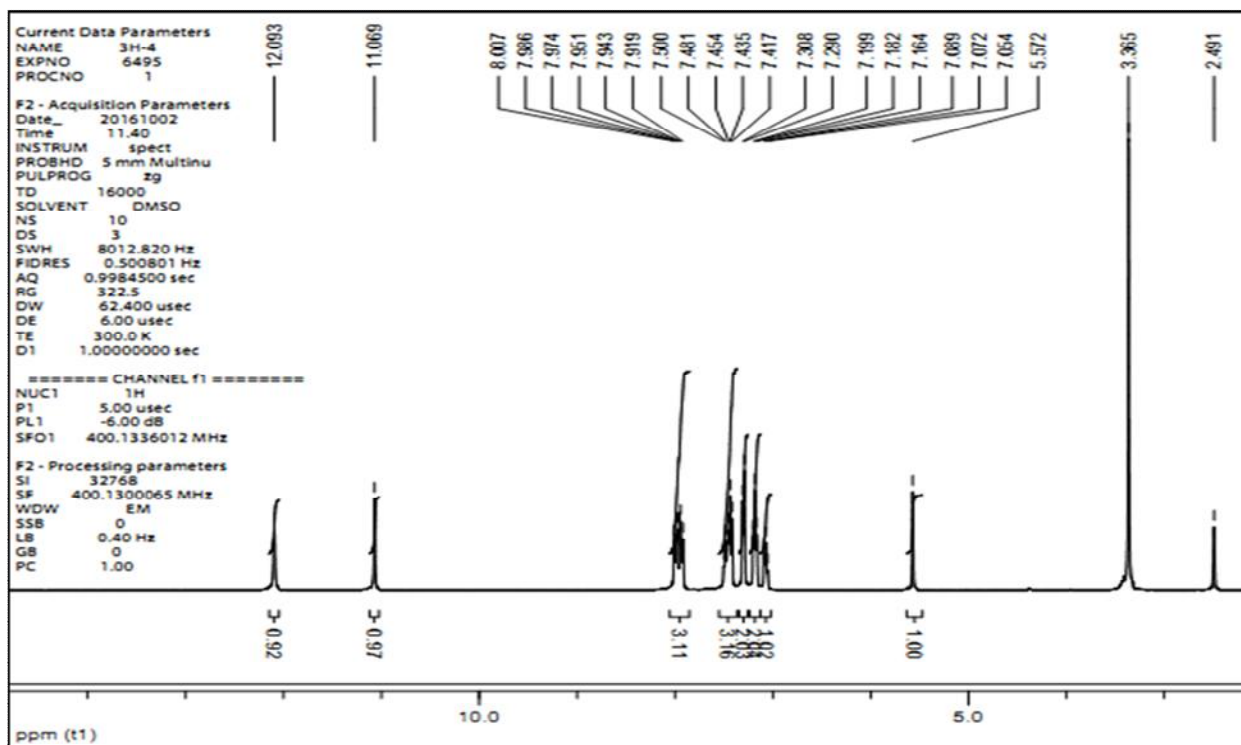
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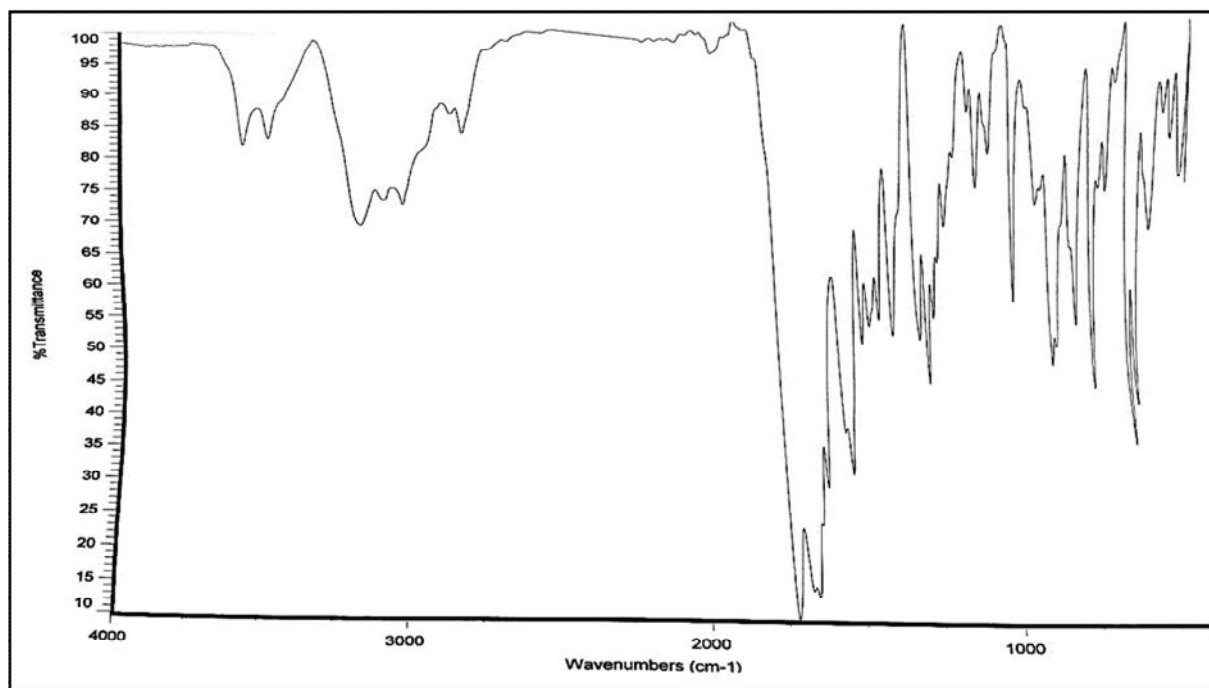
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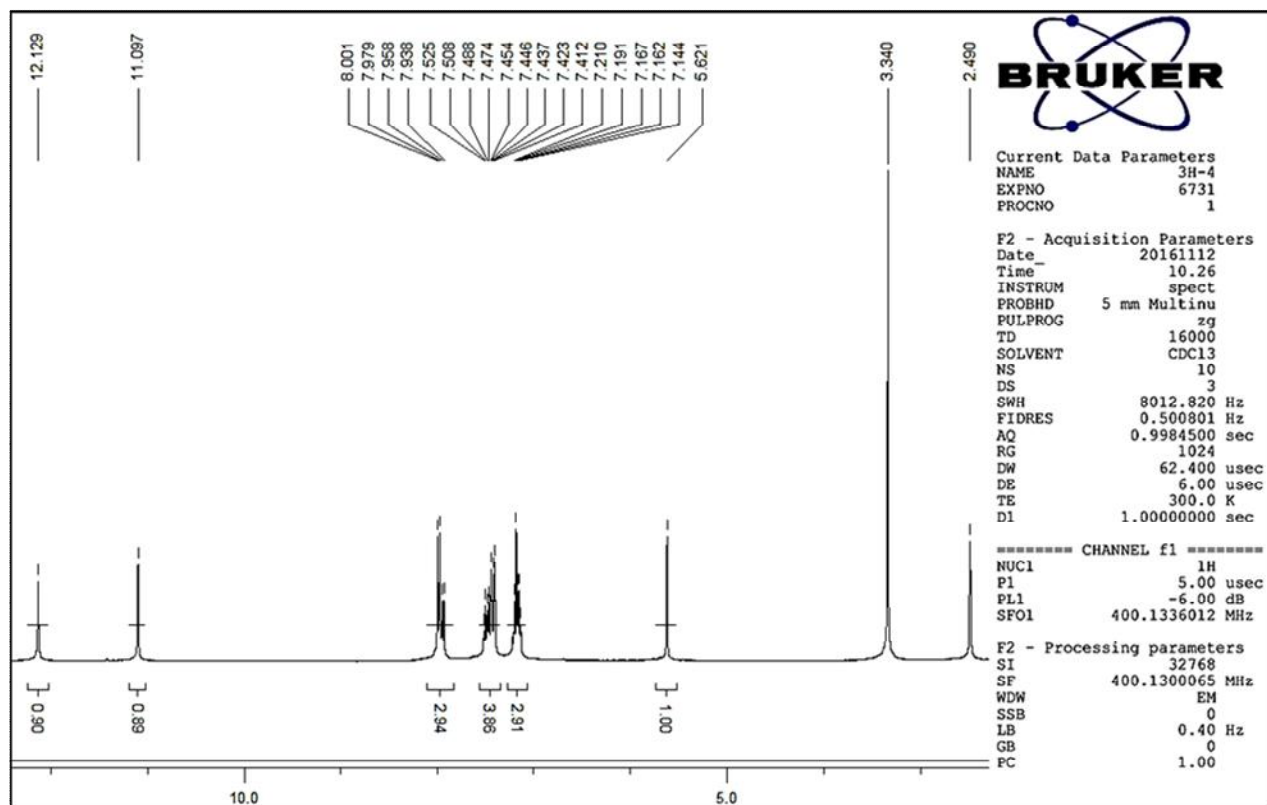


$^1\text{H}$  NMR of 12-Phenyl-8,12-dihydro-7-oxa-8,10-diaza-benzo[a]anthracene-9,11-dione

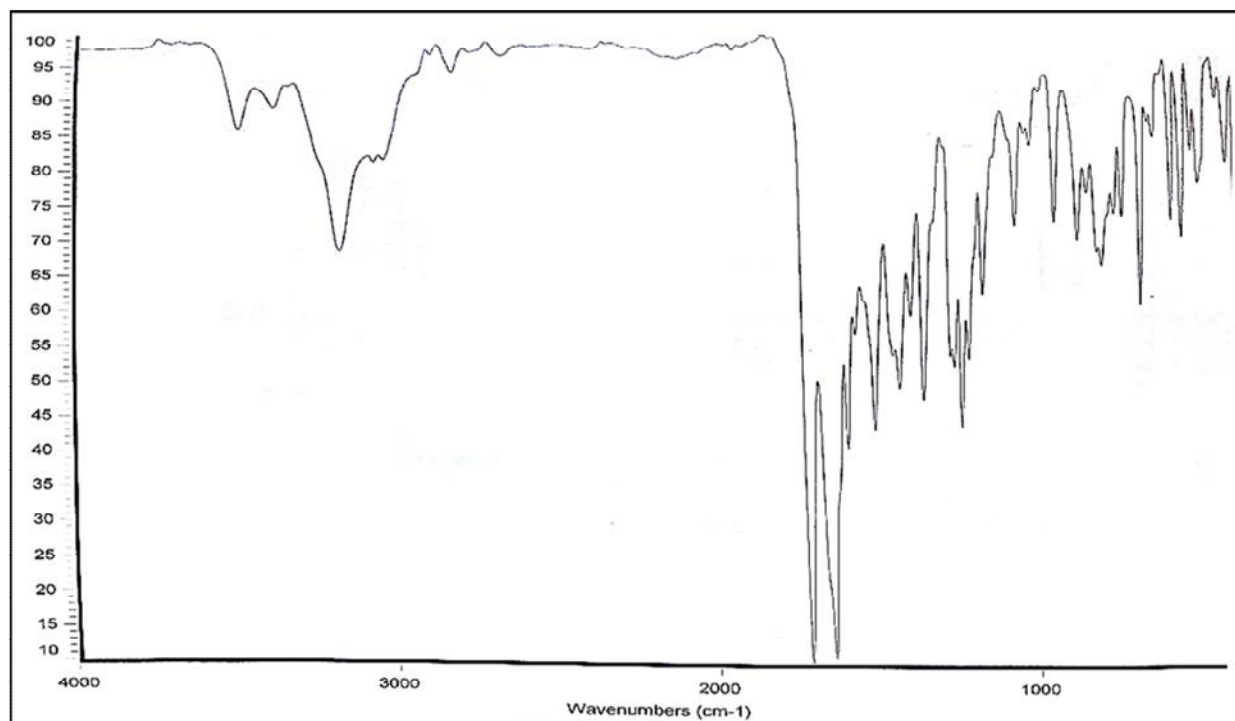


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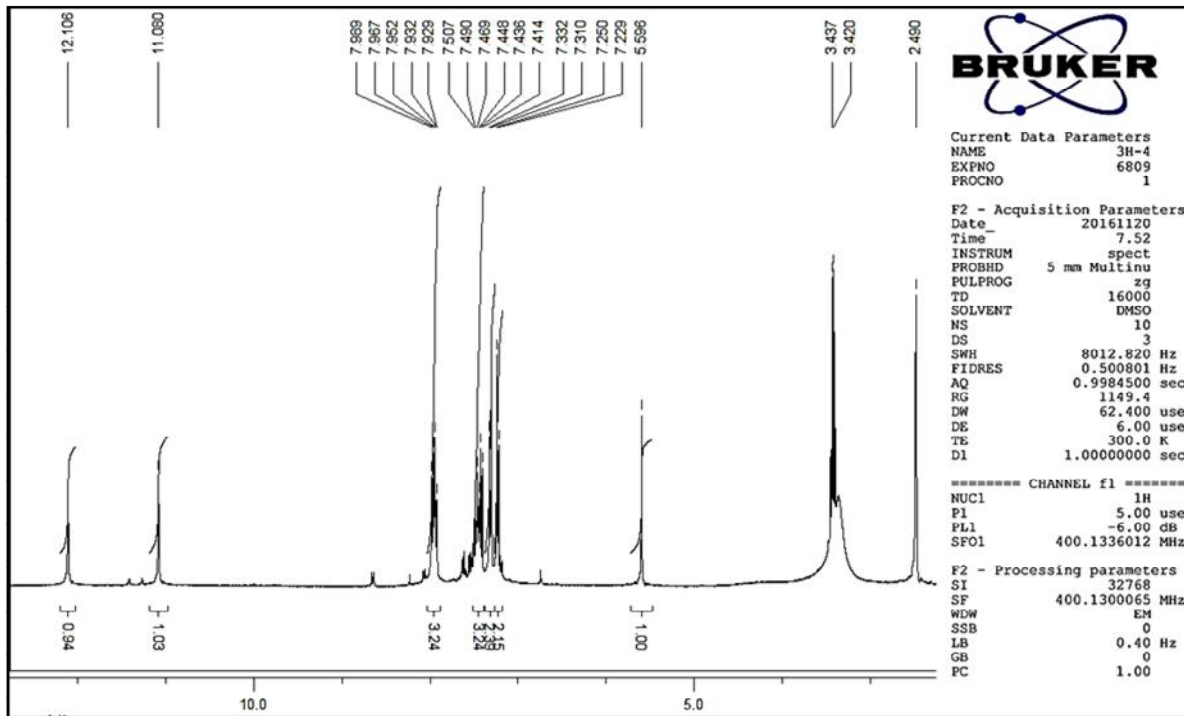




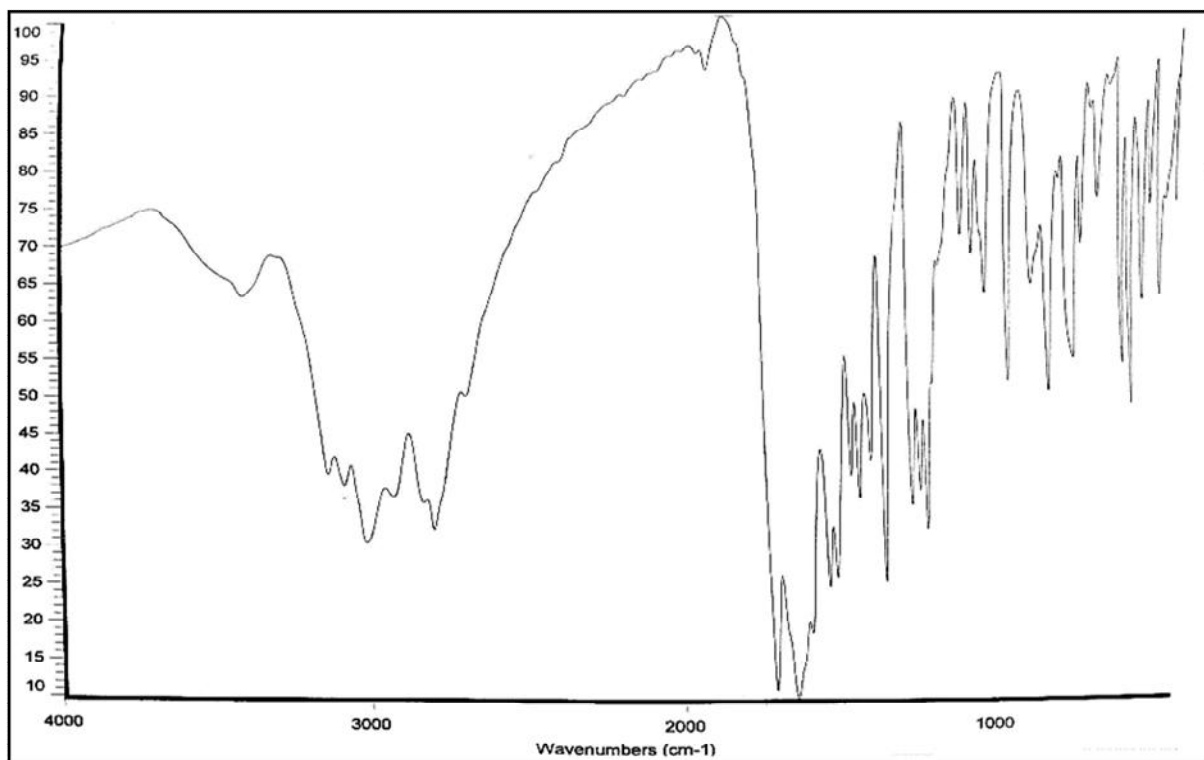
<sup>1</sup>H NMR of 12-(3-Chloro-phenyl)-8,12-dihydro-7-oxa-8,10-diaza-benzo[a]anthracene-9,11-dione



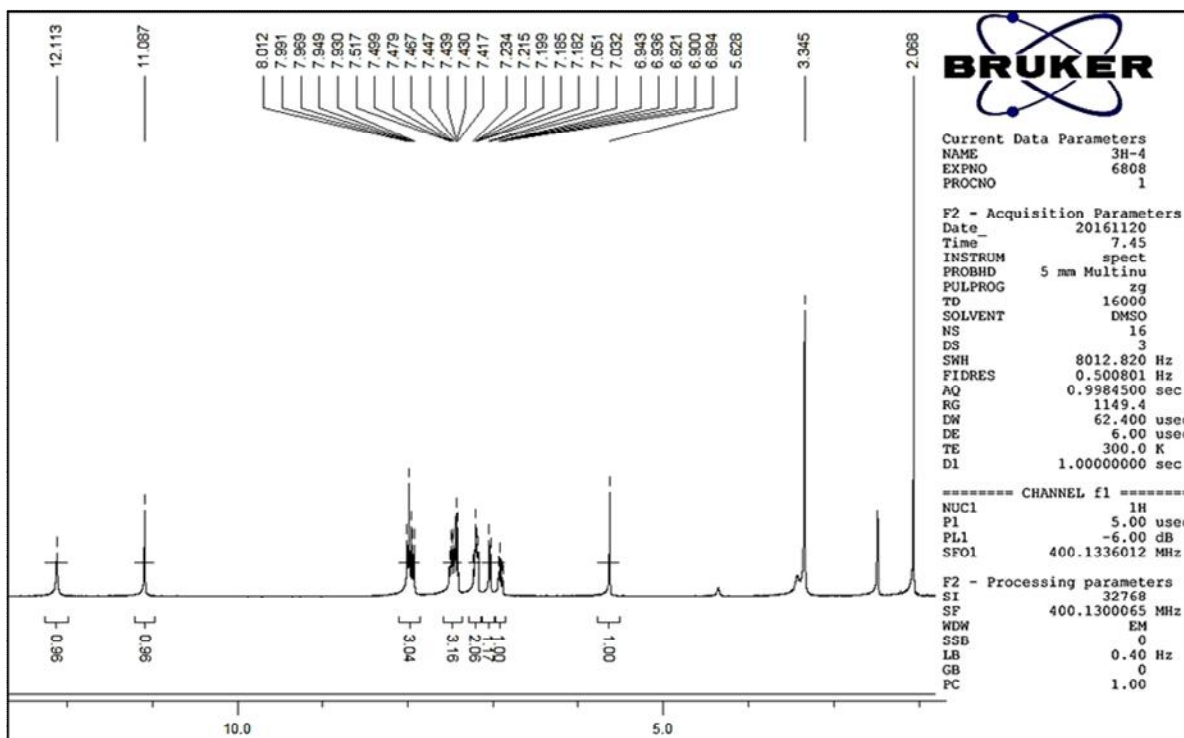
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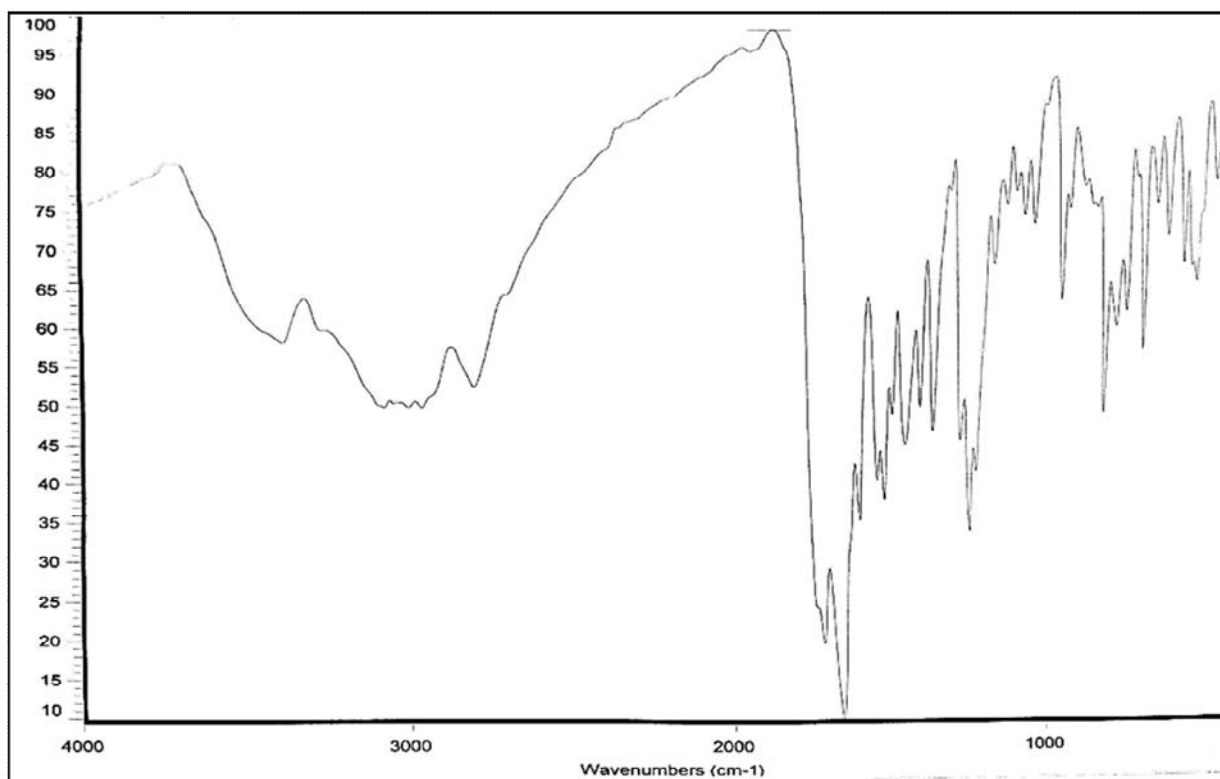
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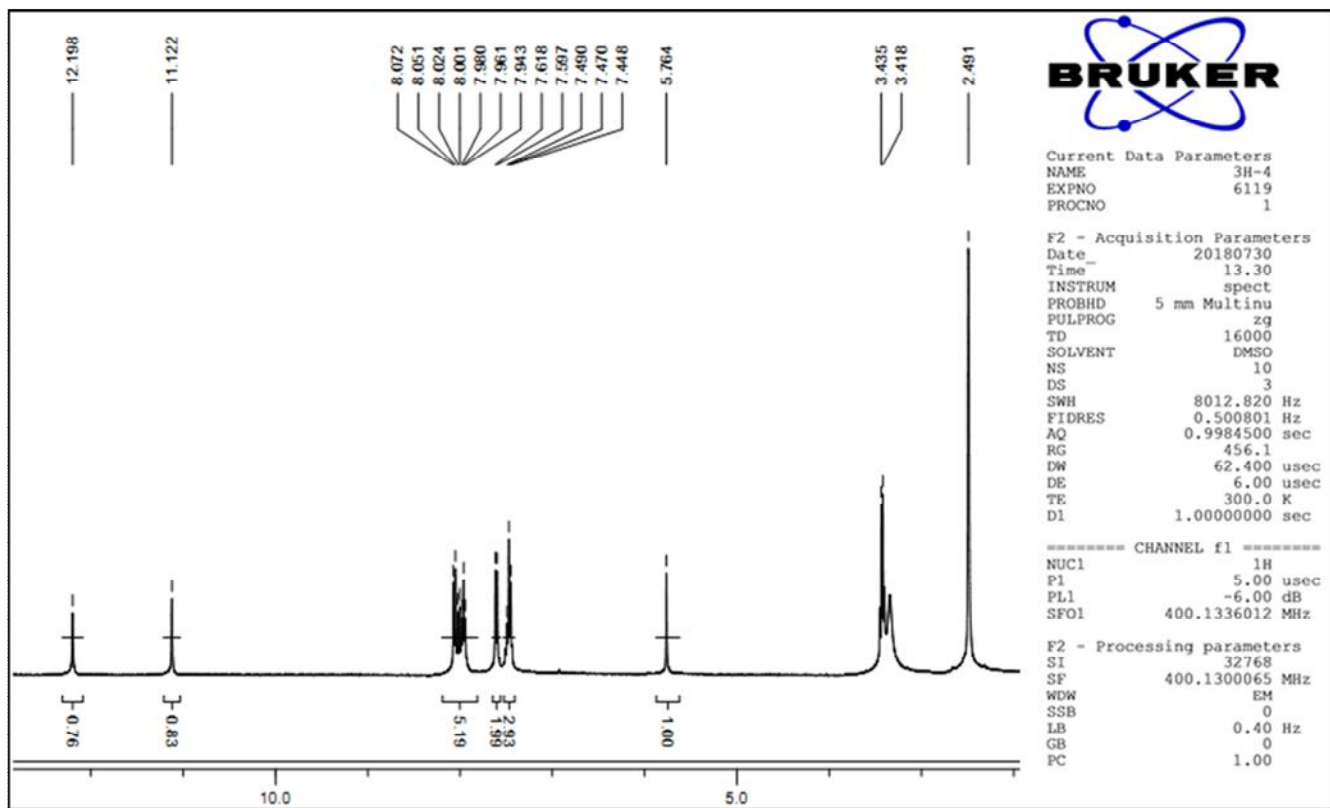
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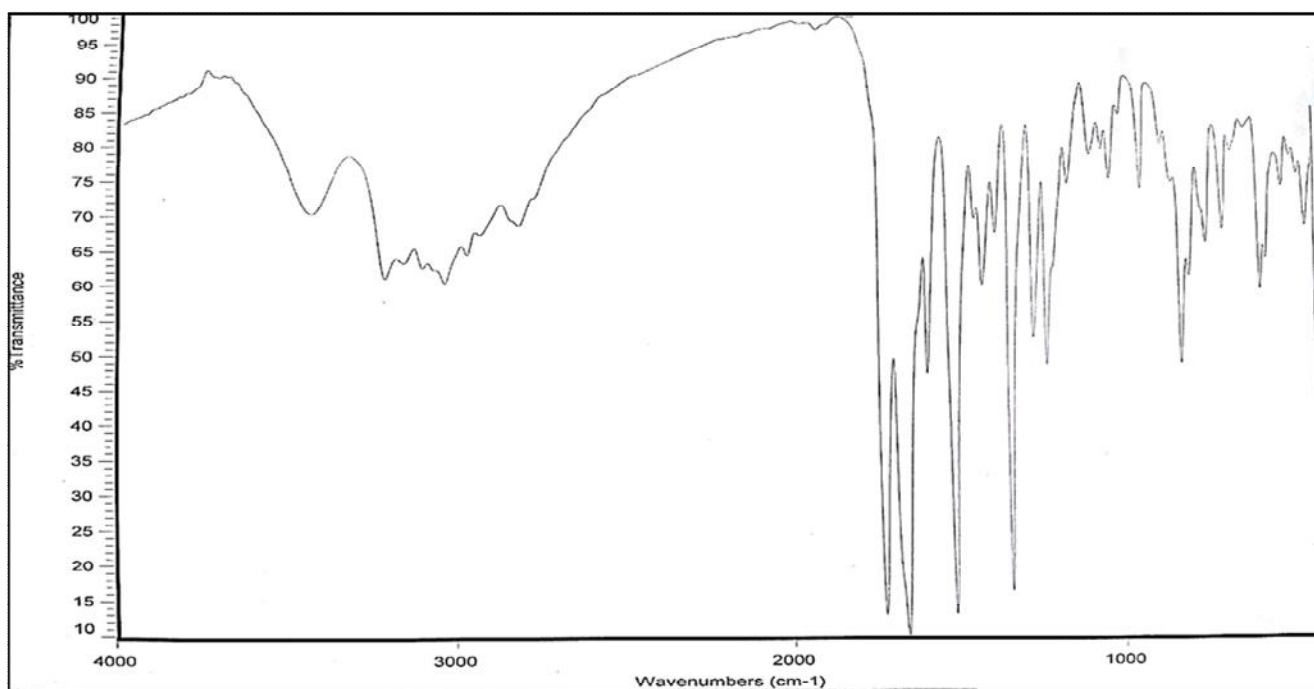
<sup>1</sup>H NMR of 12-(3-Fluoro-phenyl)-8,12-dihydro-7-oxa-8,10-diaza-benzo[a]anthracene-9,11-dione



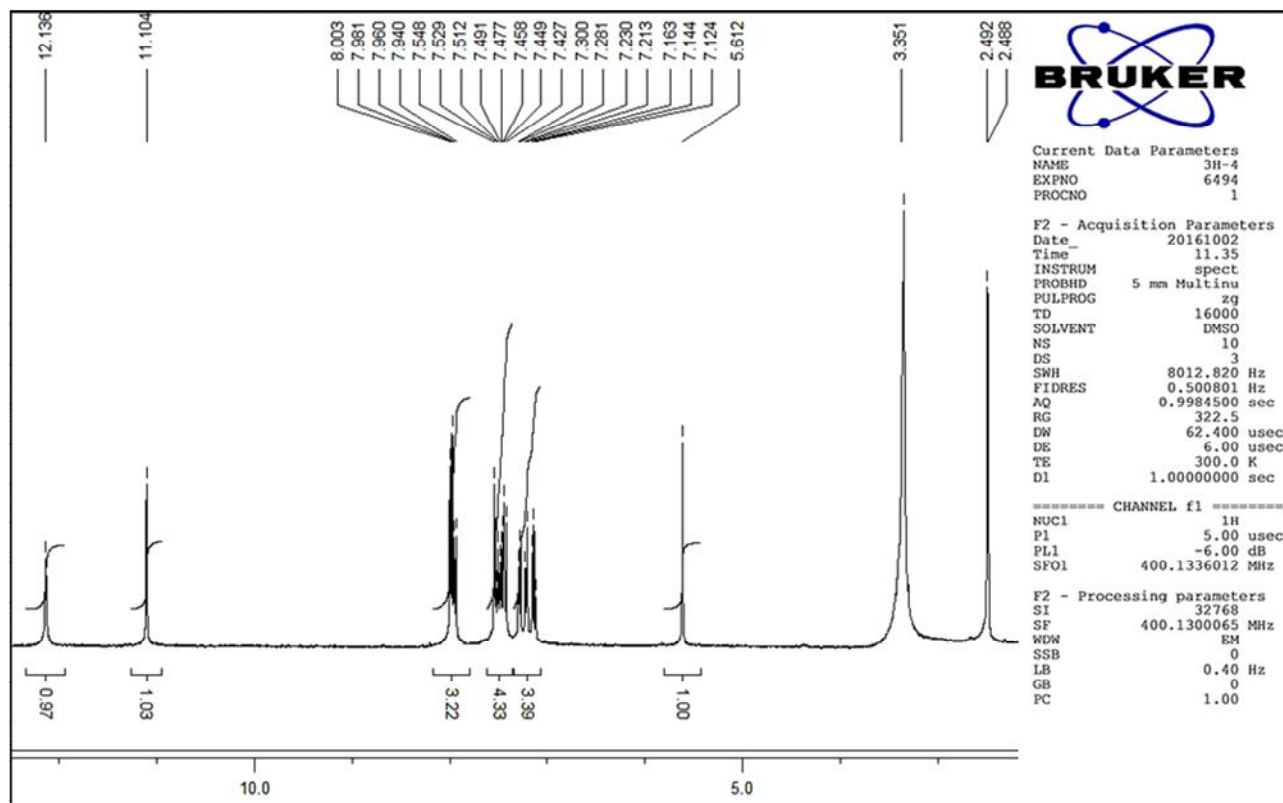
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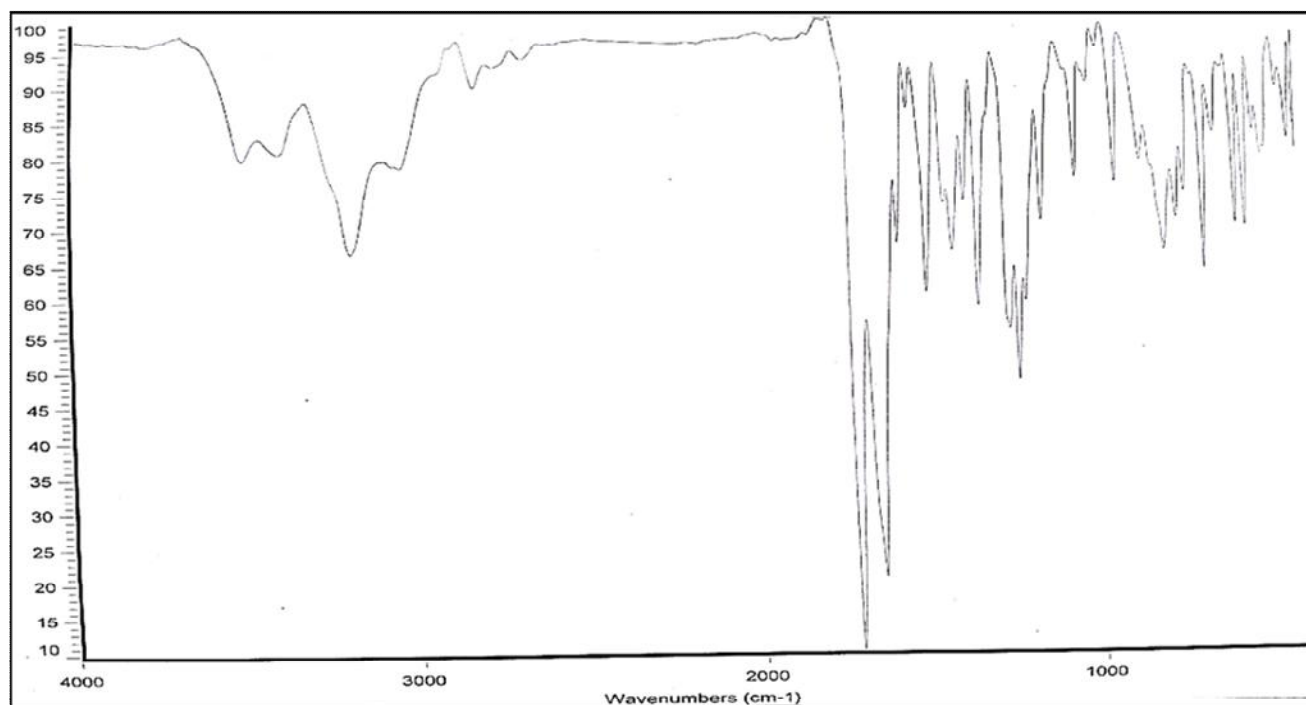
<sup>1</sup>H NMR of 12-(4-Nitro-phenyl)-8,12-dihydro-7-oxa-8,10-diaza-benzo[a]anthracene-9,11-dione



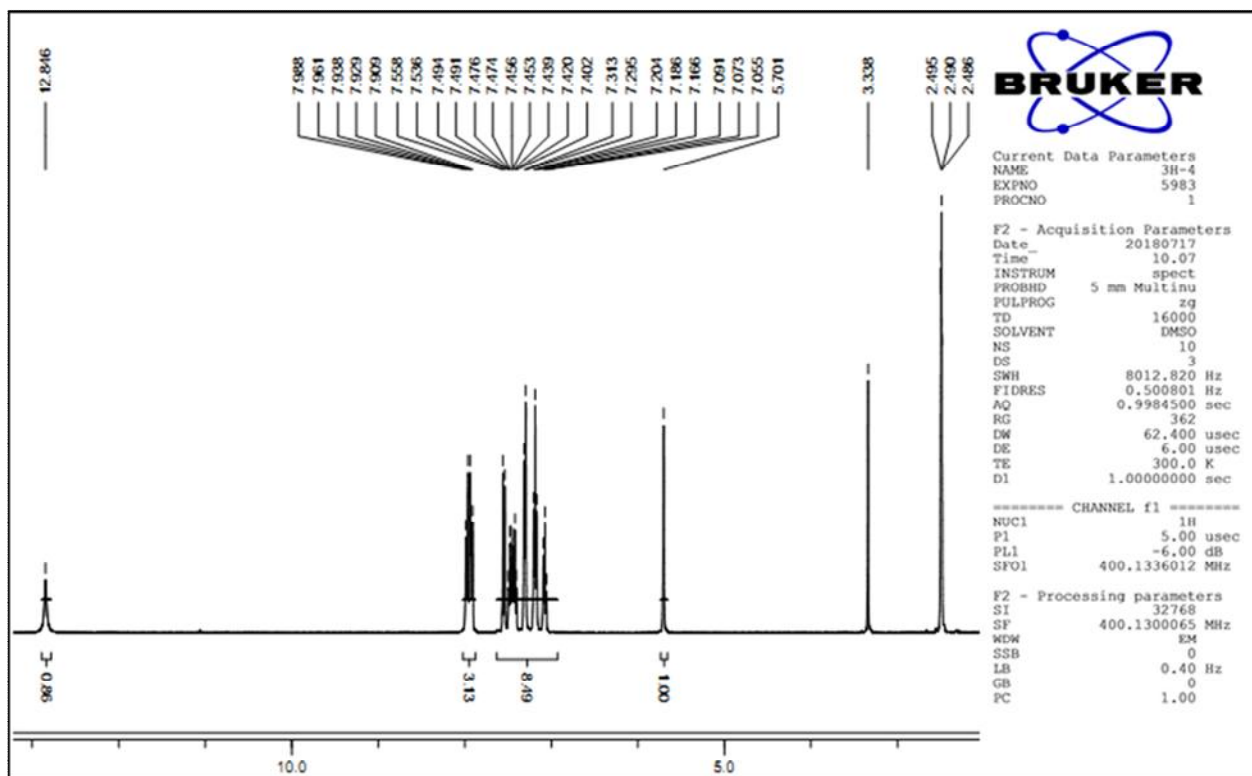
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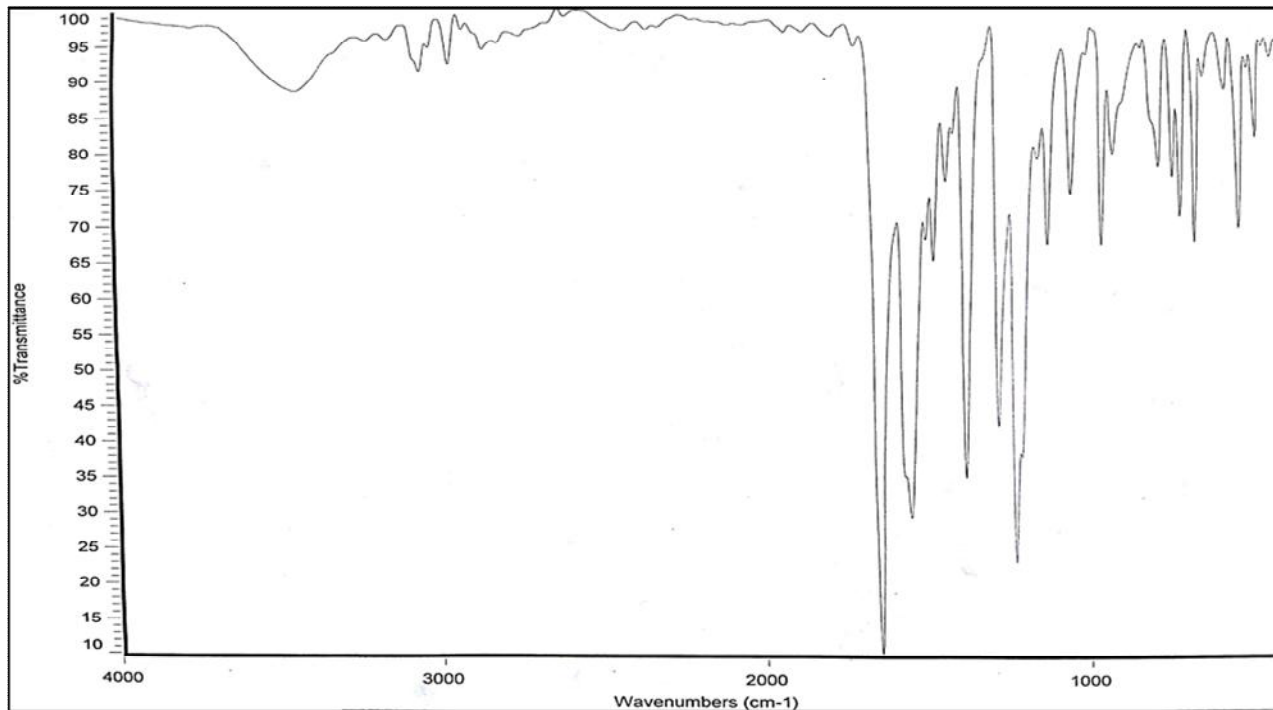
<sup>1</sup>H NMR of 12-(3-Bromo-phenyl)-8,12-dihydro-7-oxa-8,10-diaza-benzo[a]anthracene-9,11-dione



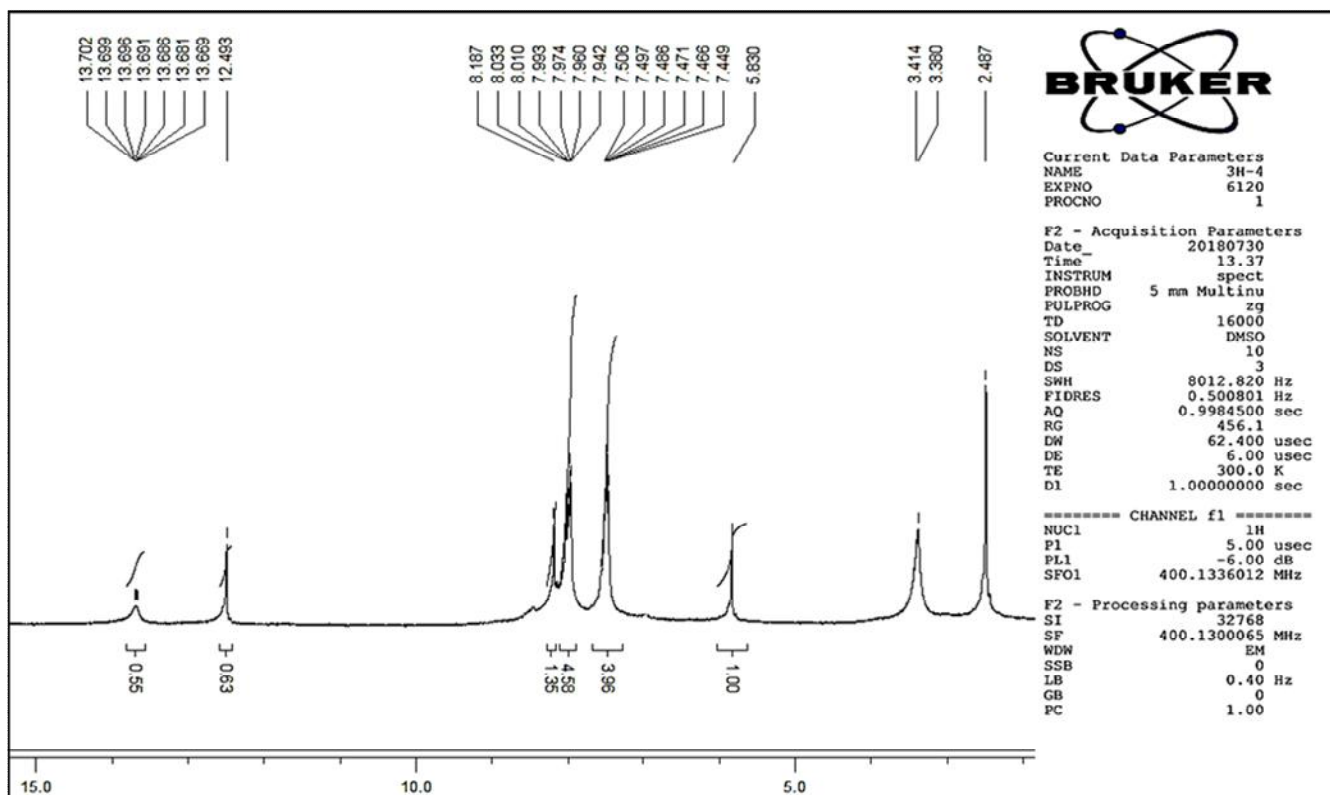
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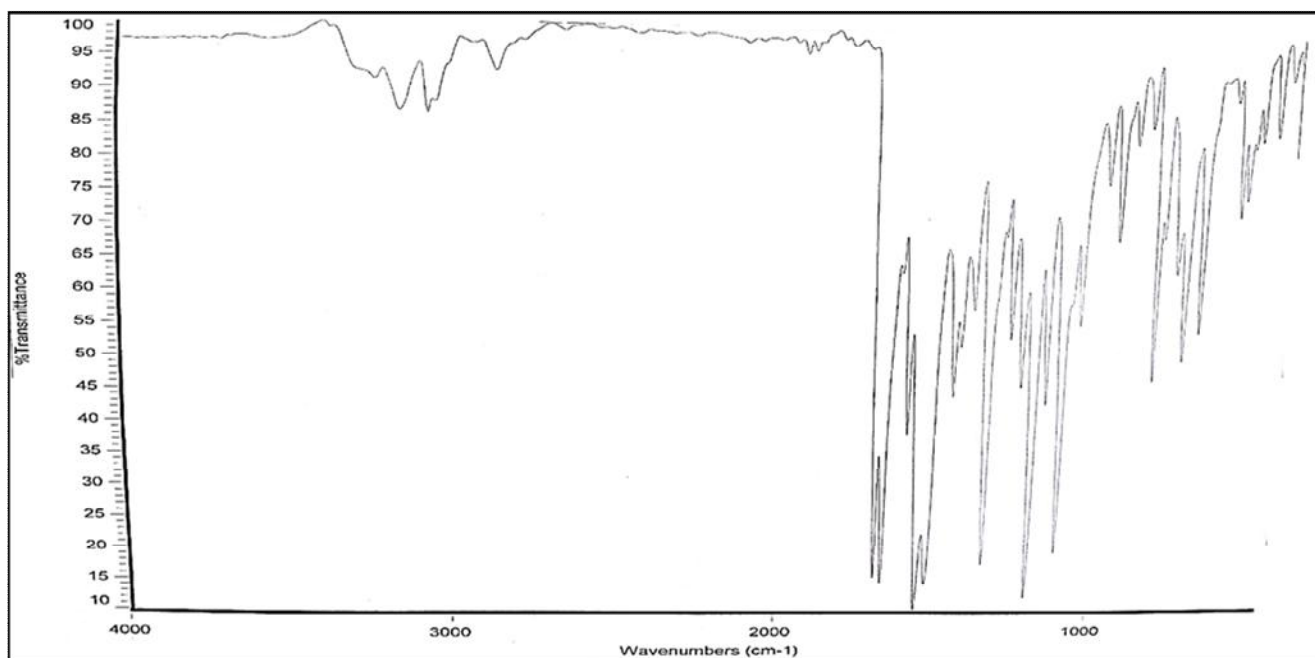
<sup>1</sup>H NMR of 12-Phenyl-9-thioxo-8,9,10,12-tetrahydro-7-oxa-8,10-diaza-benzo[a]anthracen-11-one



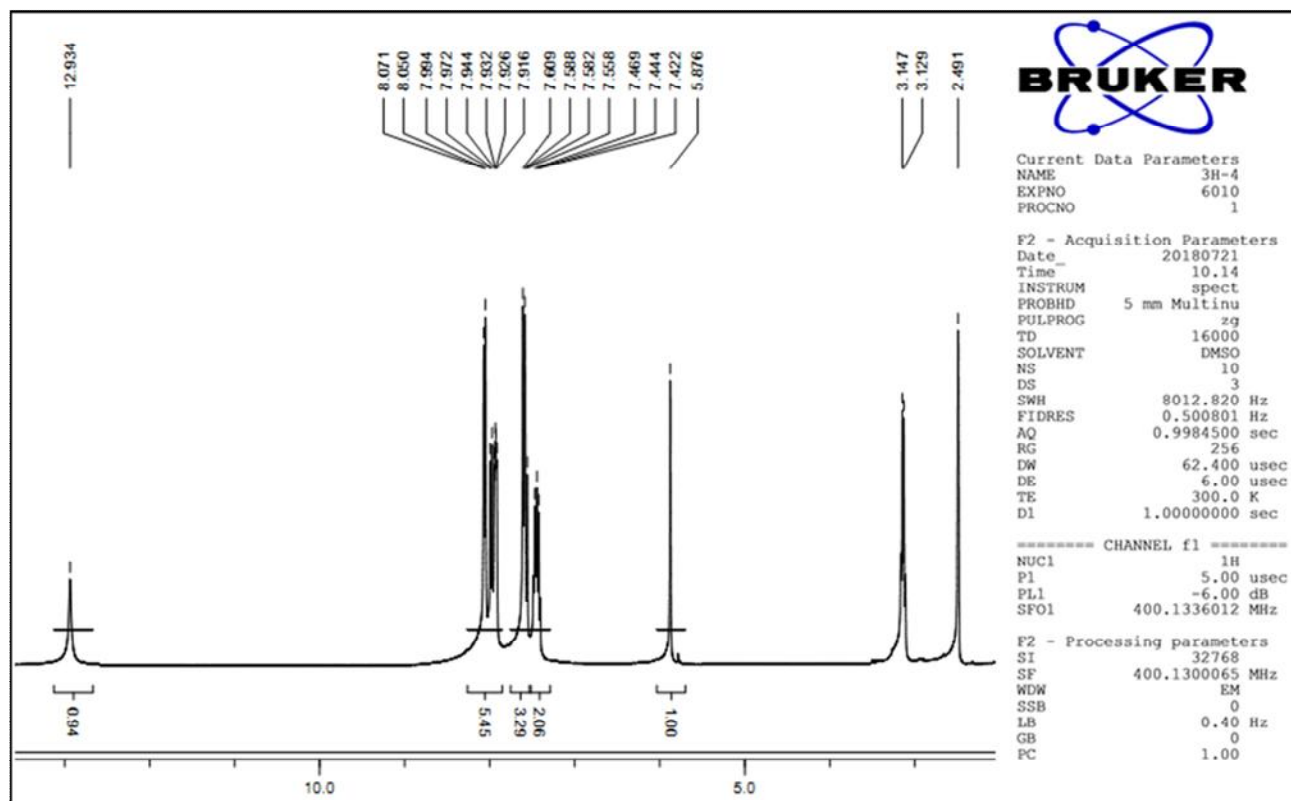
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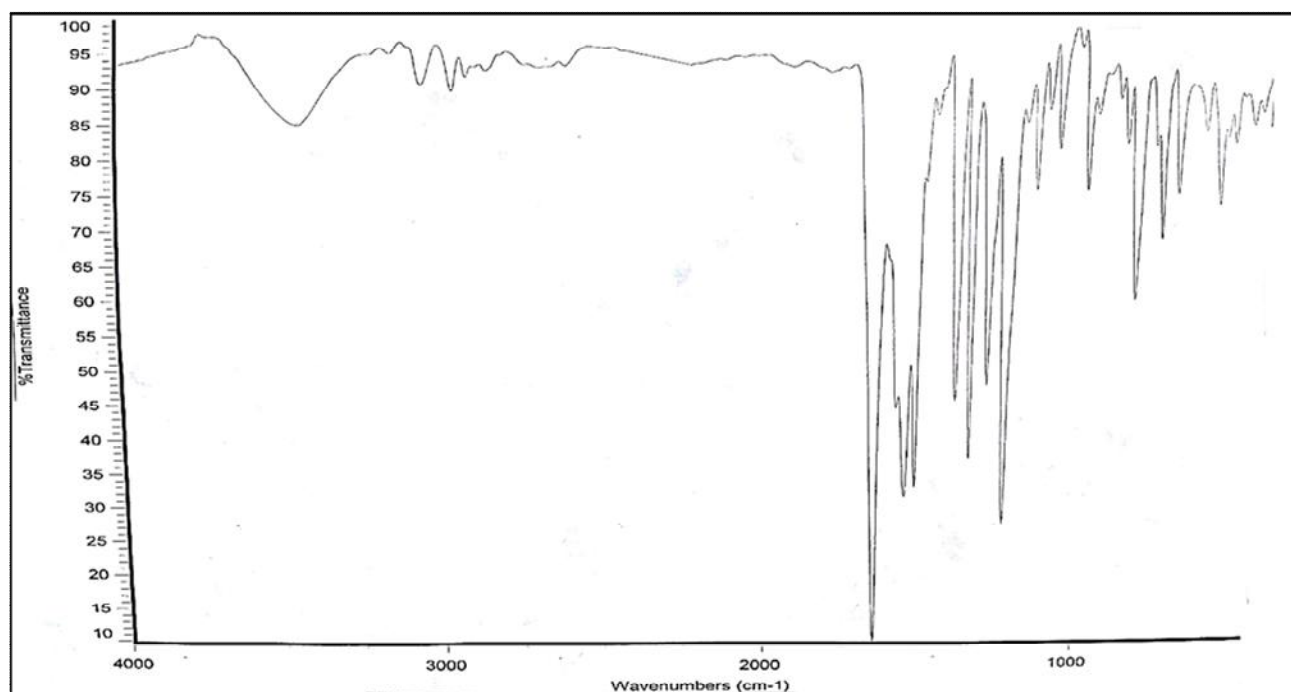
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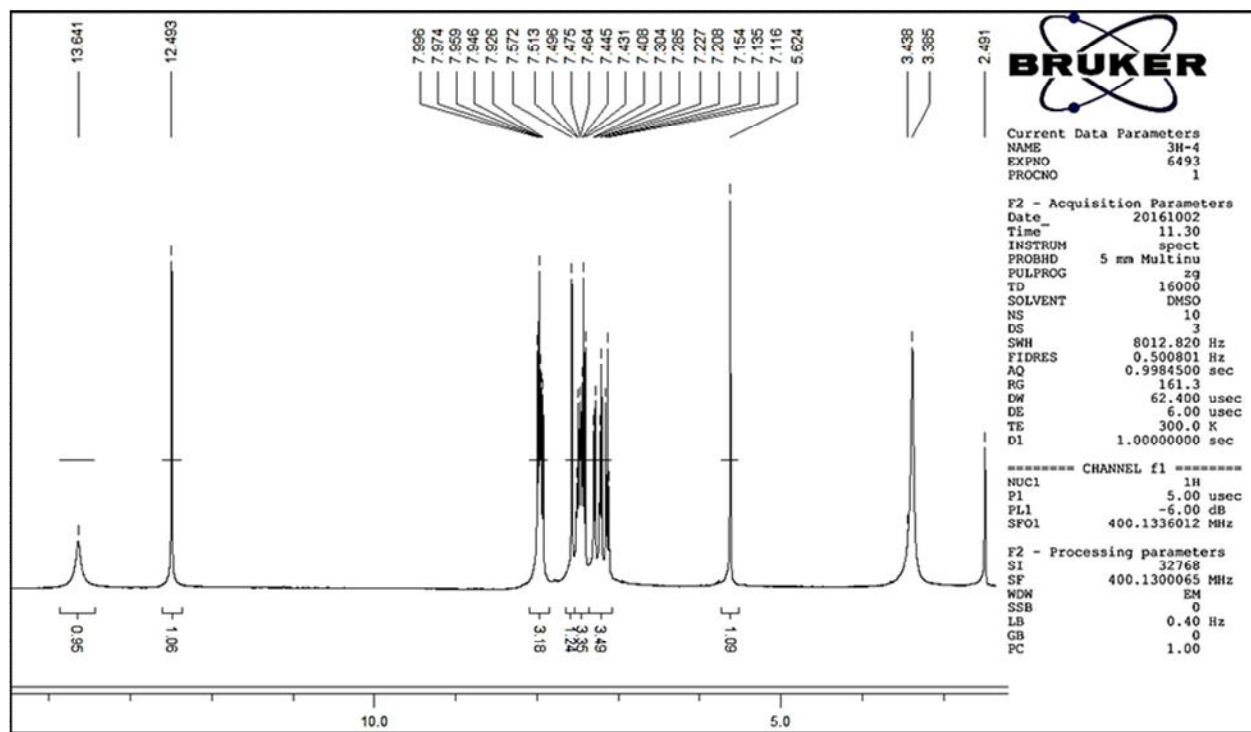


<sup>1</sup>H NMR of 12-(4-Nitro-phenyl)-9-thioxo-8,9,10,12-tetrahydro-7-oxa-8,10-diaza-benzo[a]anthracen-11-one

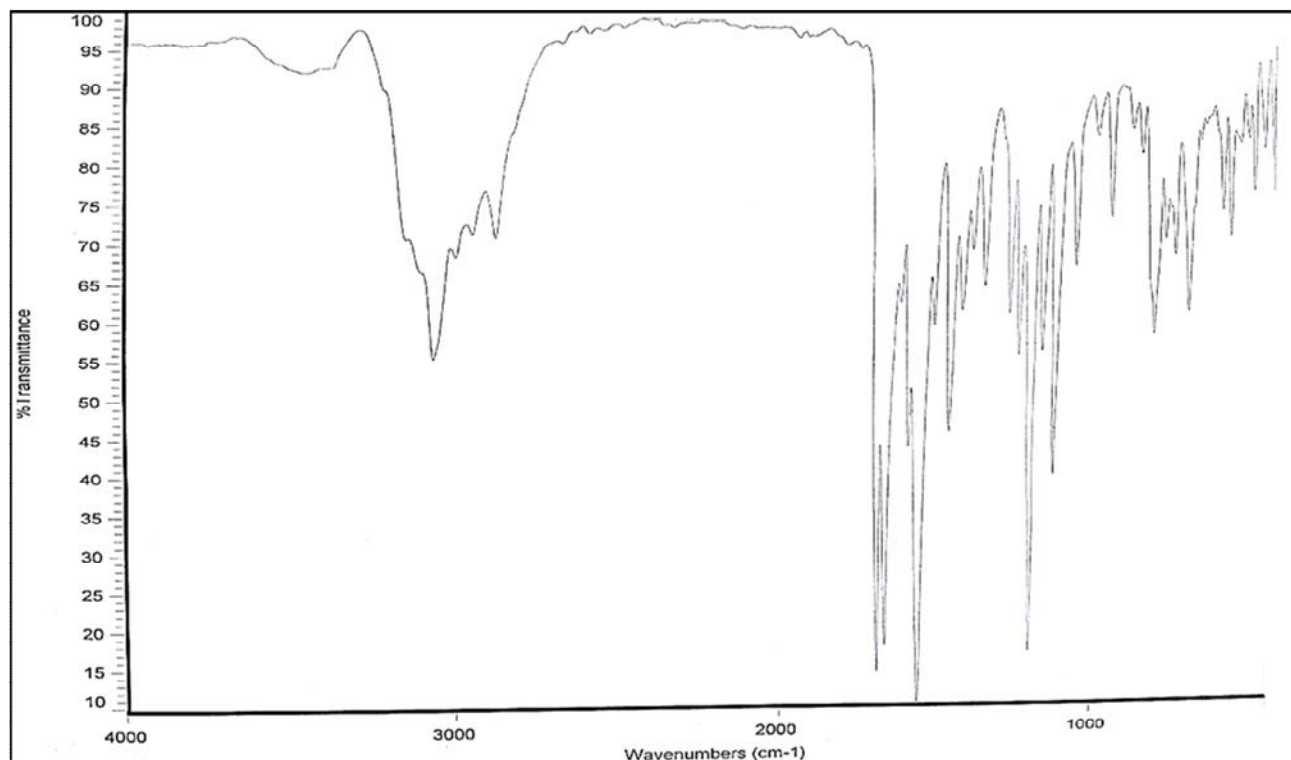


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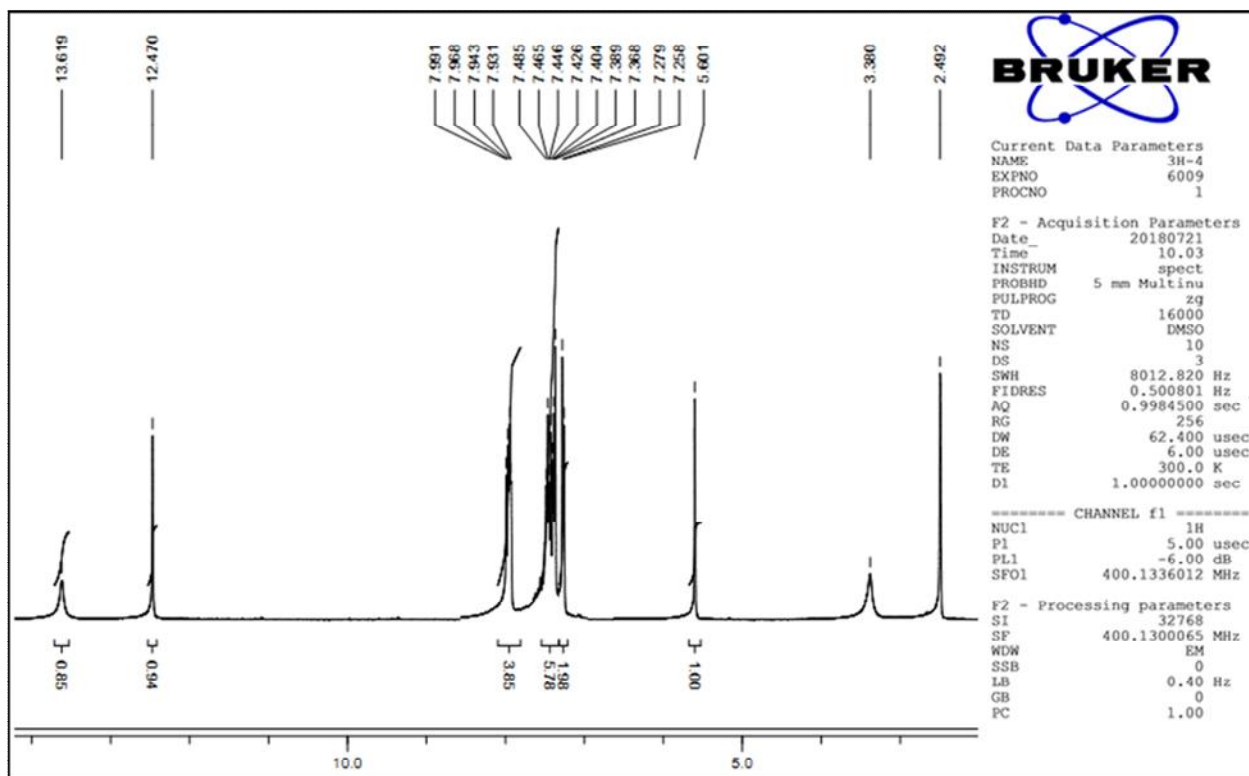




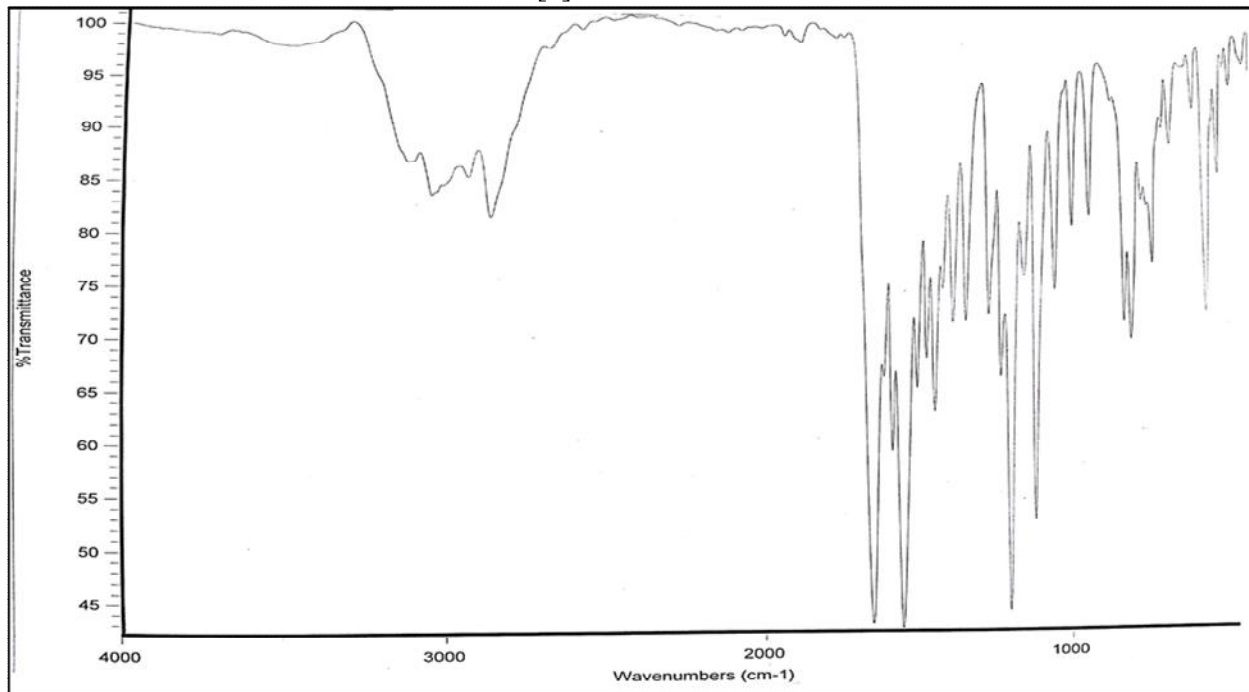
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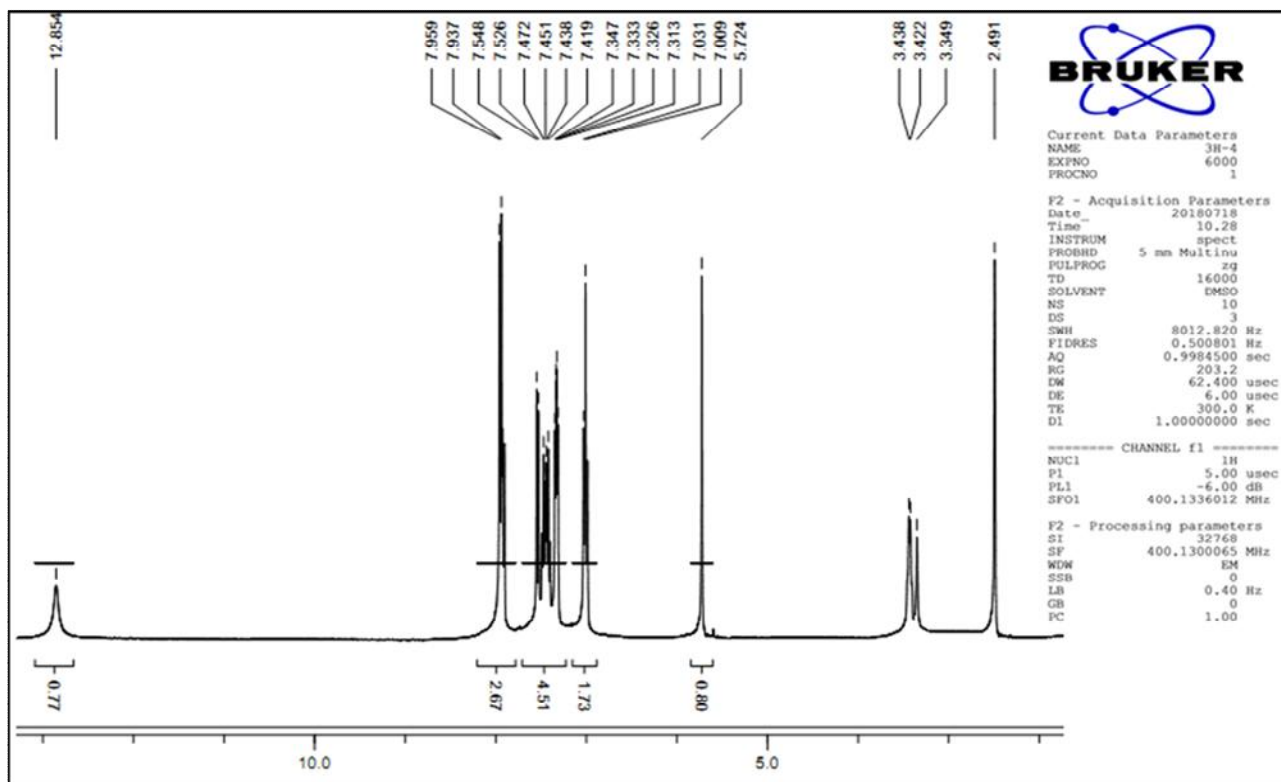
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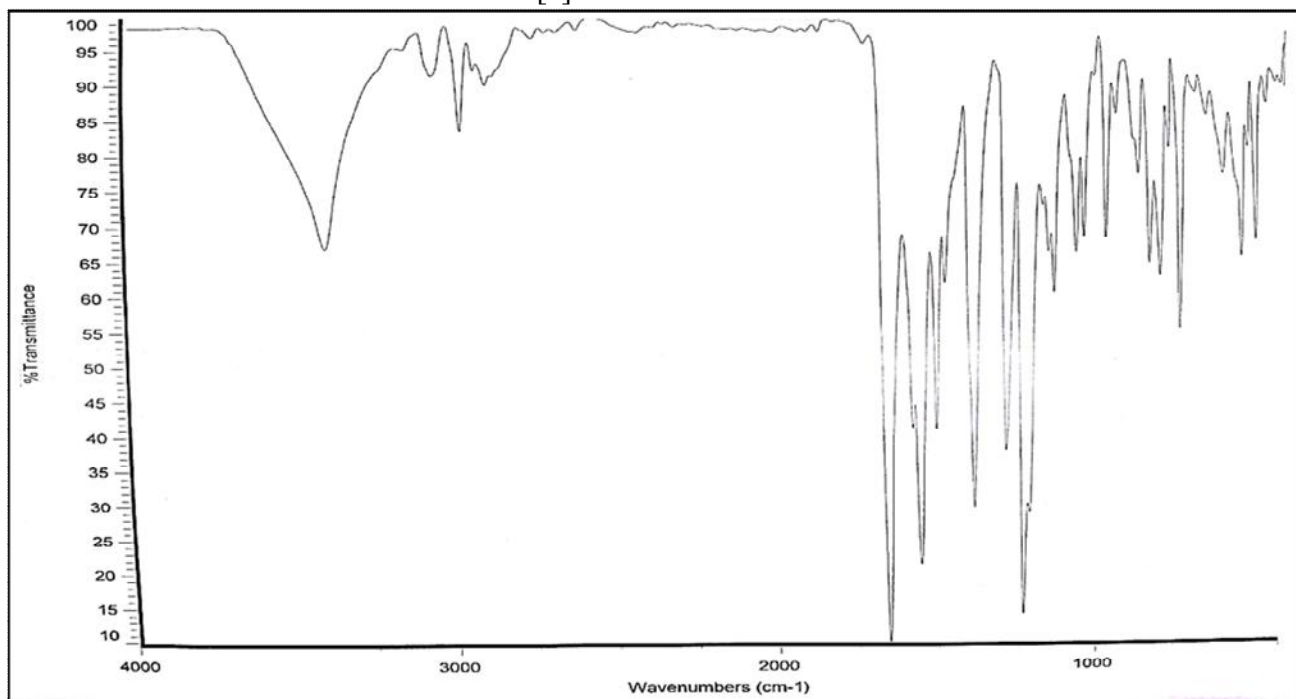
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