

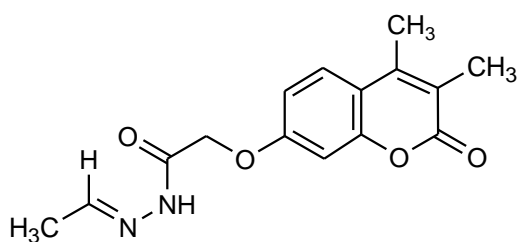
Supplementary Data

(New Journal of Chemistry)

Coumarin-Aceto-hydrazone Derivatives as Novel Antiproliferative Agents via VEGFR-2/AKT Axis Inhibition and Apoptosis Triggering

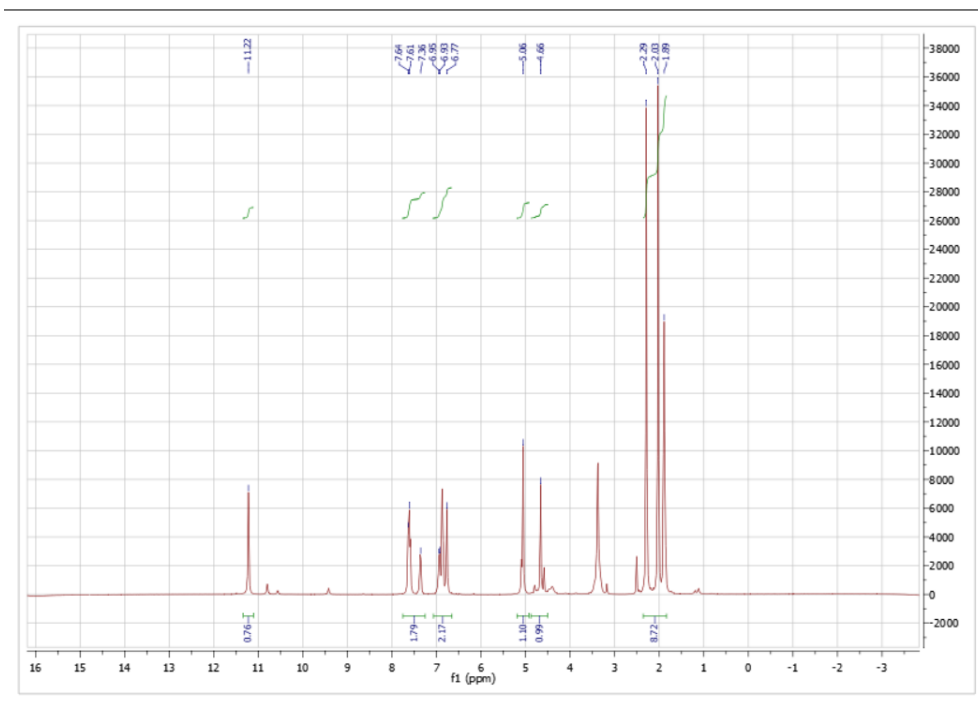
Lina M.A. Abdel Ghany,^a Nehad M. El-Dydamony,^a Amira A. Helwa,^{*b} Sahar M. Abdelraouf,^c Rana M. Abdelnaby^d

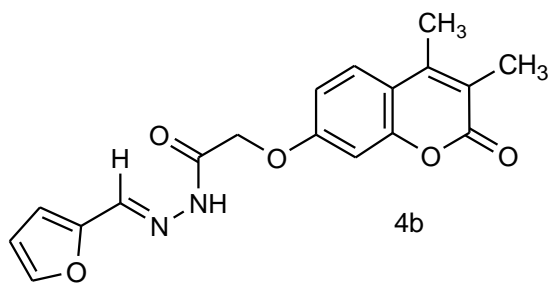
(¹H-NMR)



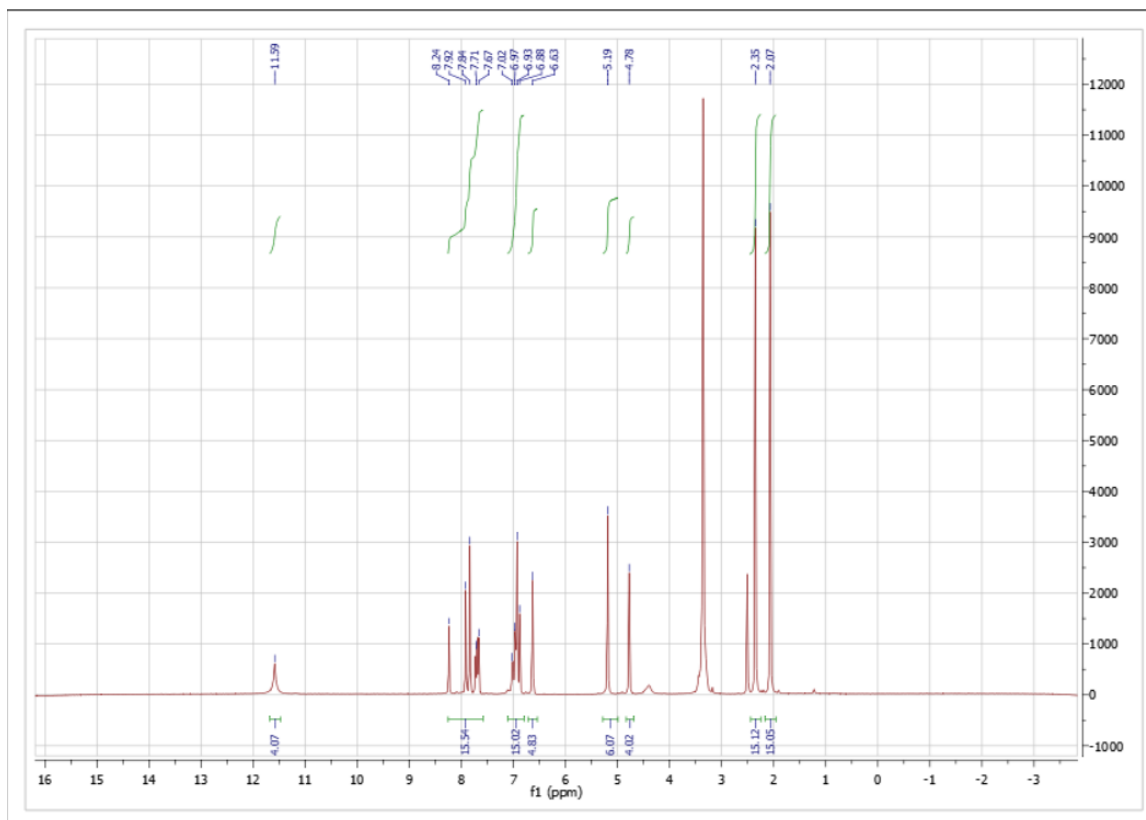
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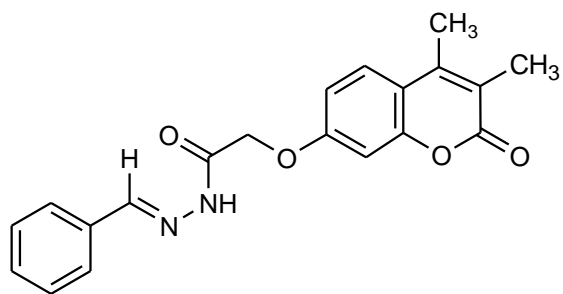
2-((3,4-dimethyl-2-oxo-2H-chromen-7-yl)oxy)-N'-ethylideneacetohydrazone





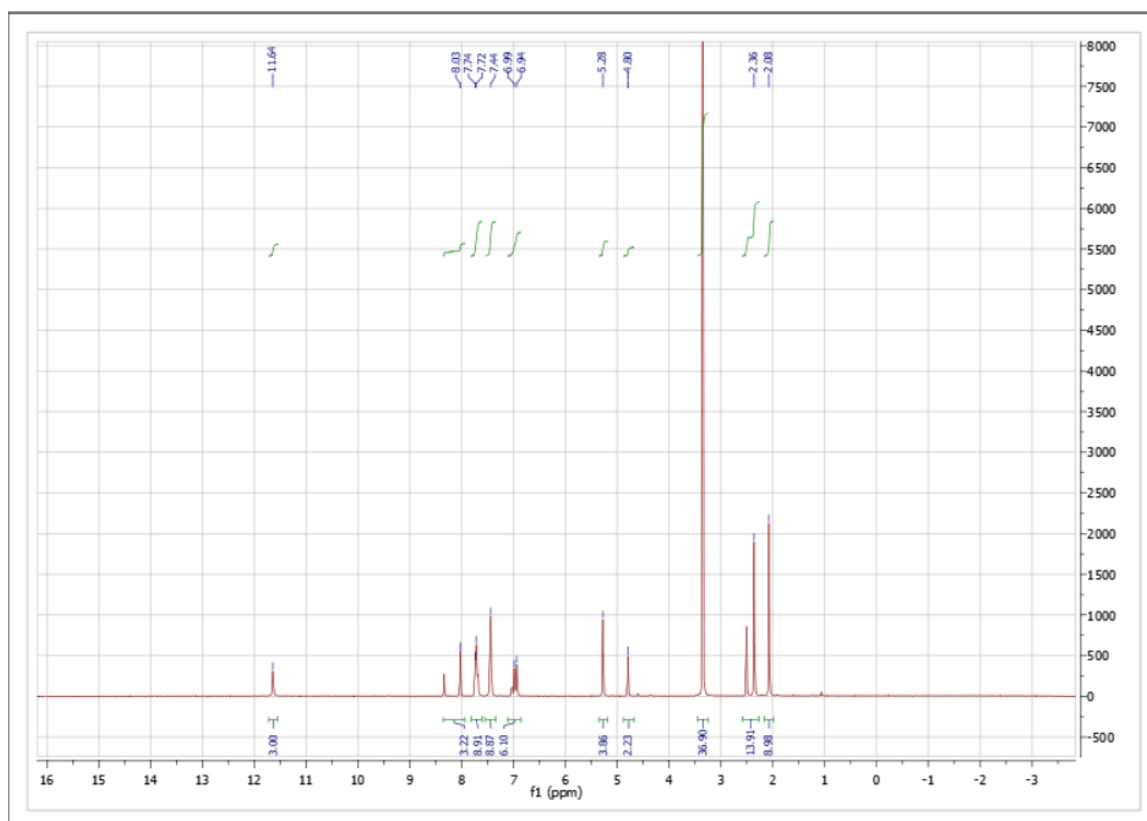
2-((3,4-dimethyl-2-oxo-2H-chromen-7-yl)oxy)-N'-(furan-2-ylmethylene)acetohydrazide

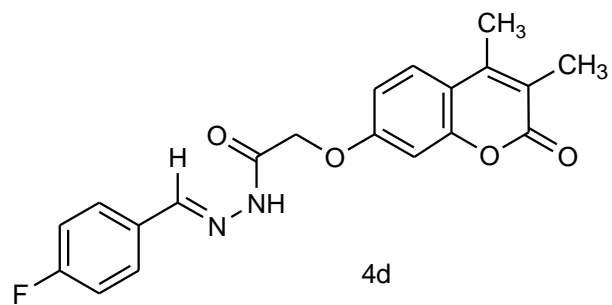




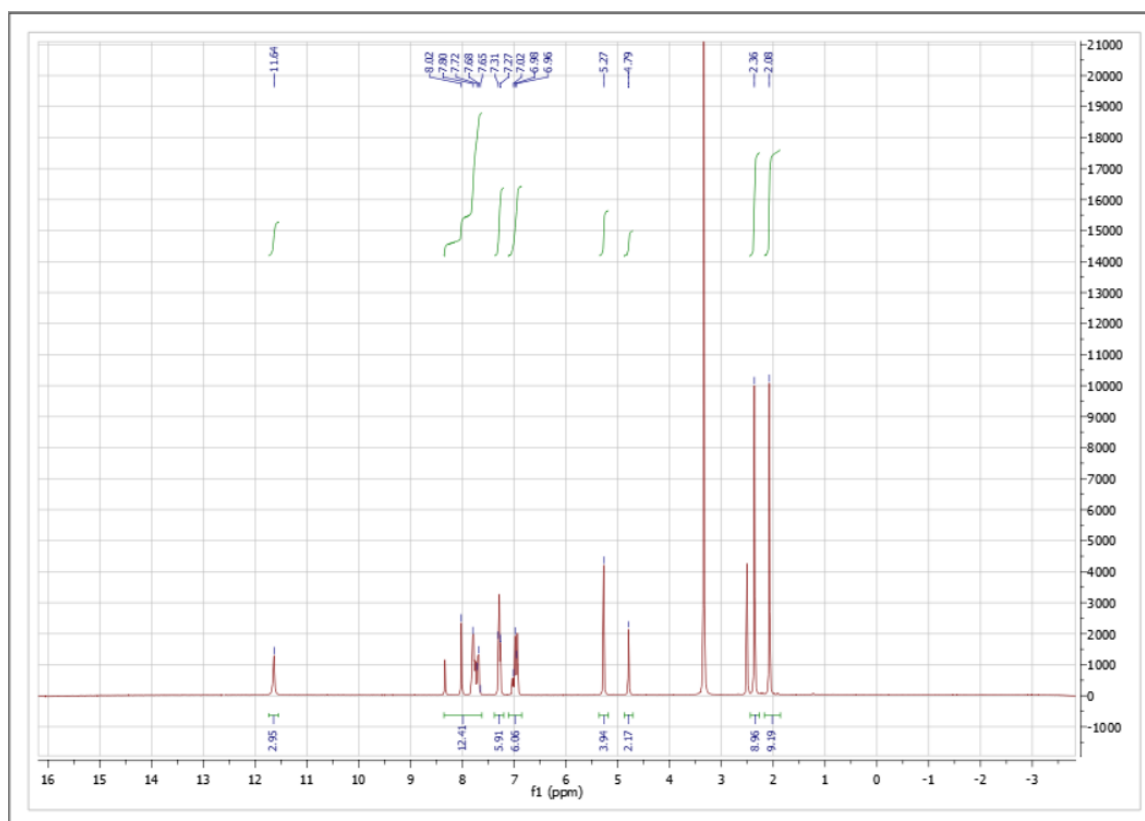
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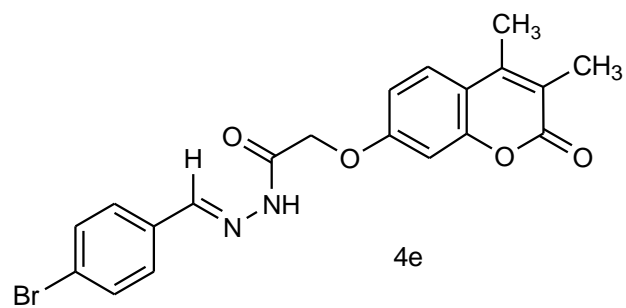
N'-benzylidene-2-((3,4-dimethyl-2-oxo-2H-chromen-7-yl)oxy)acetohydrazide



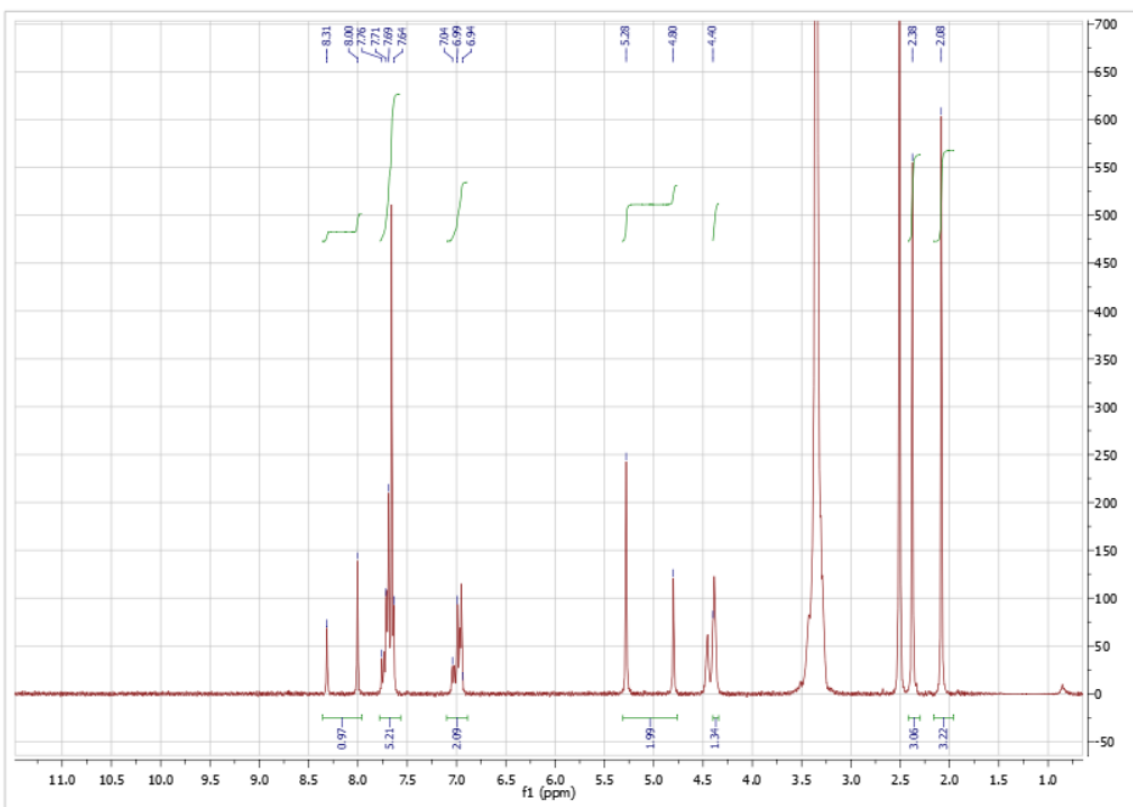


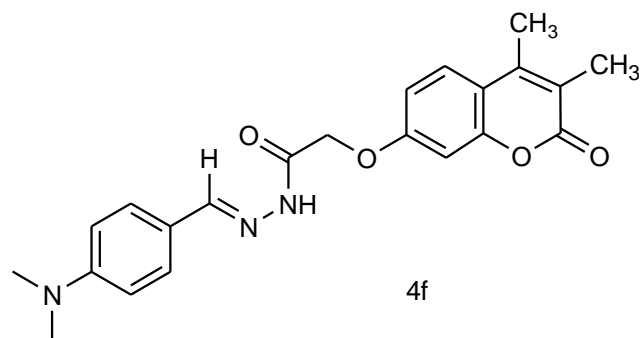
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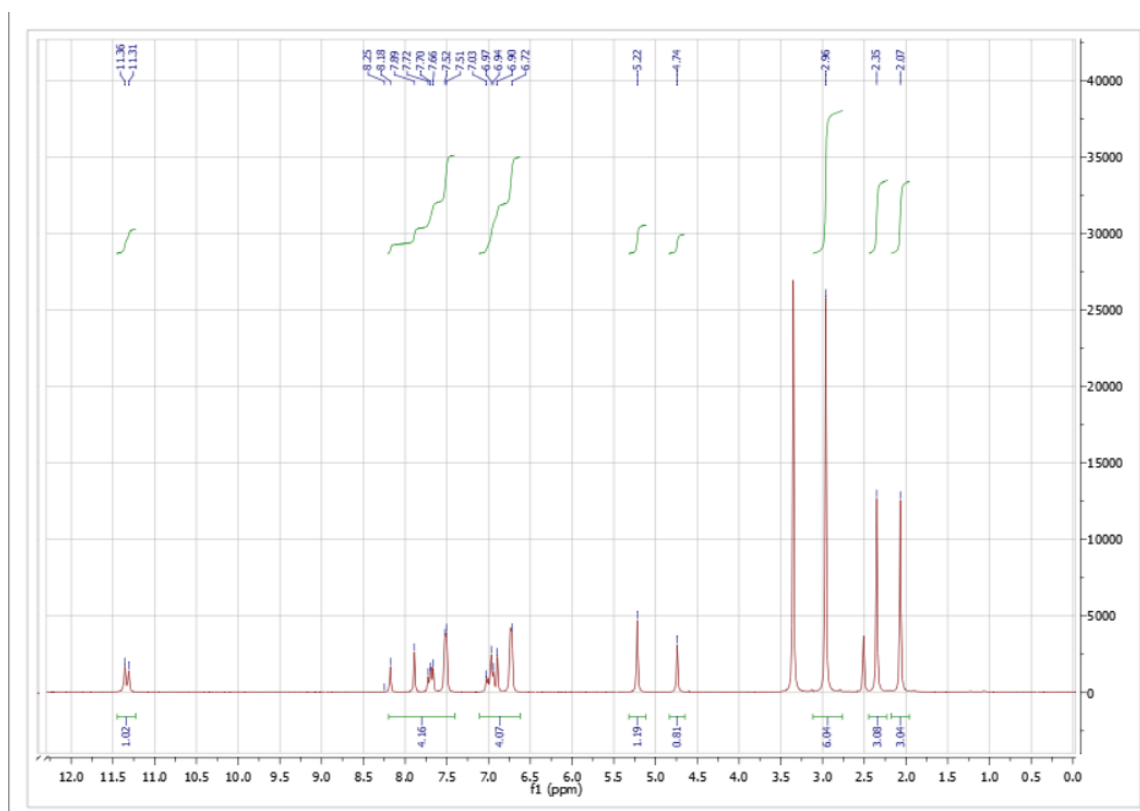


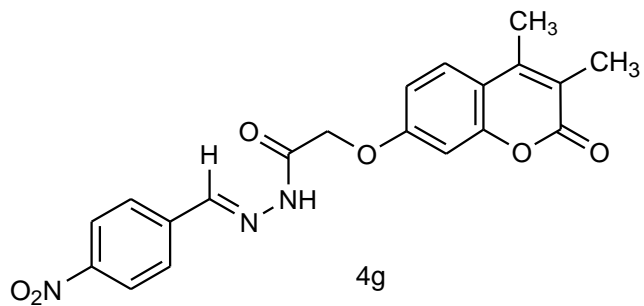
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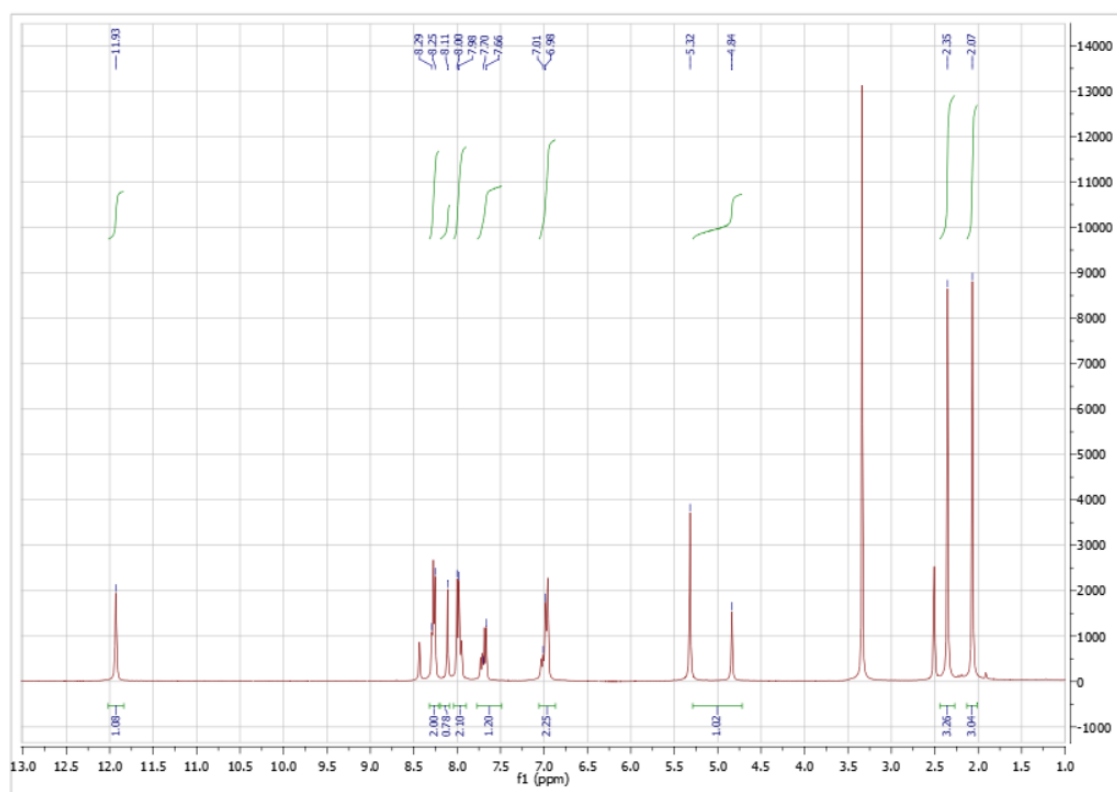


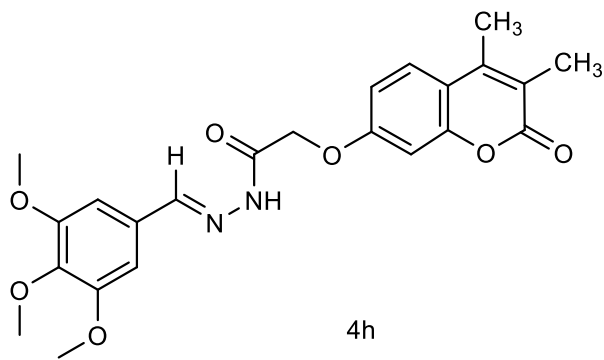
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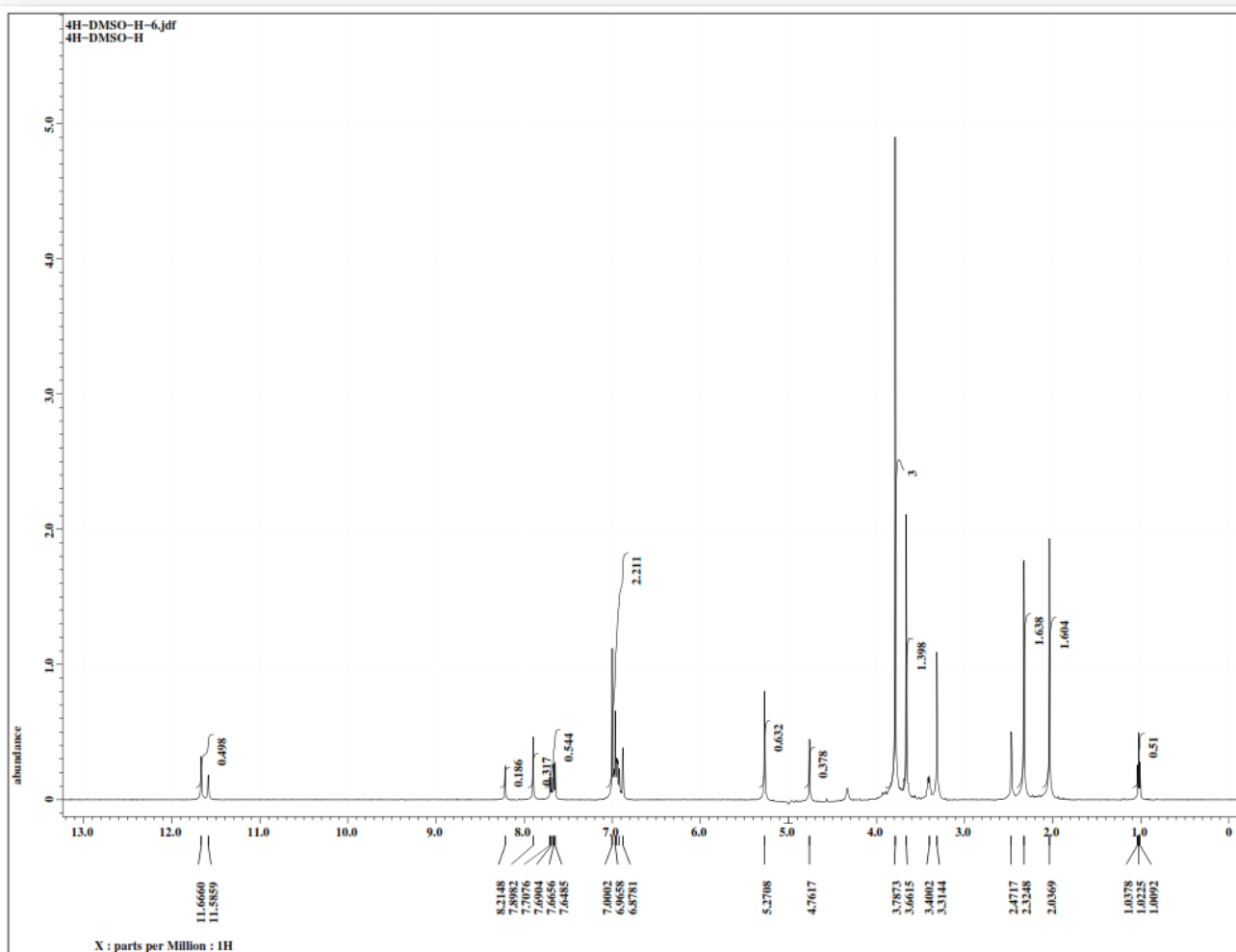


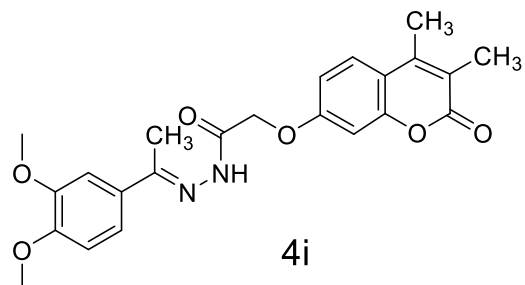
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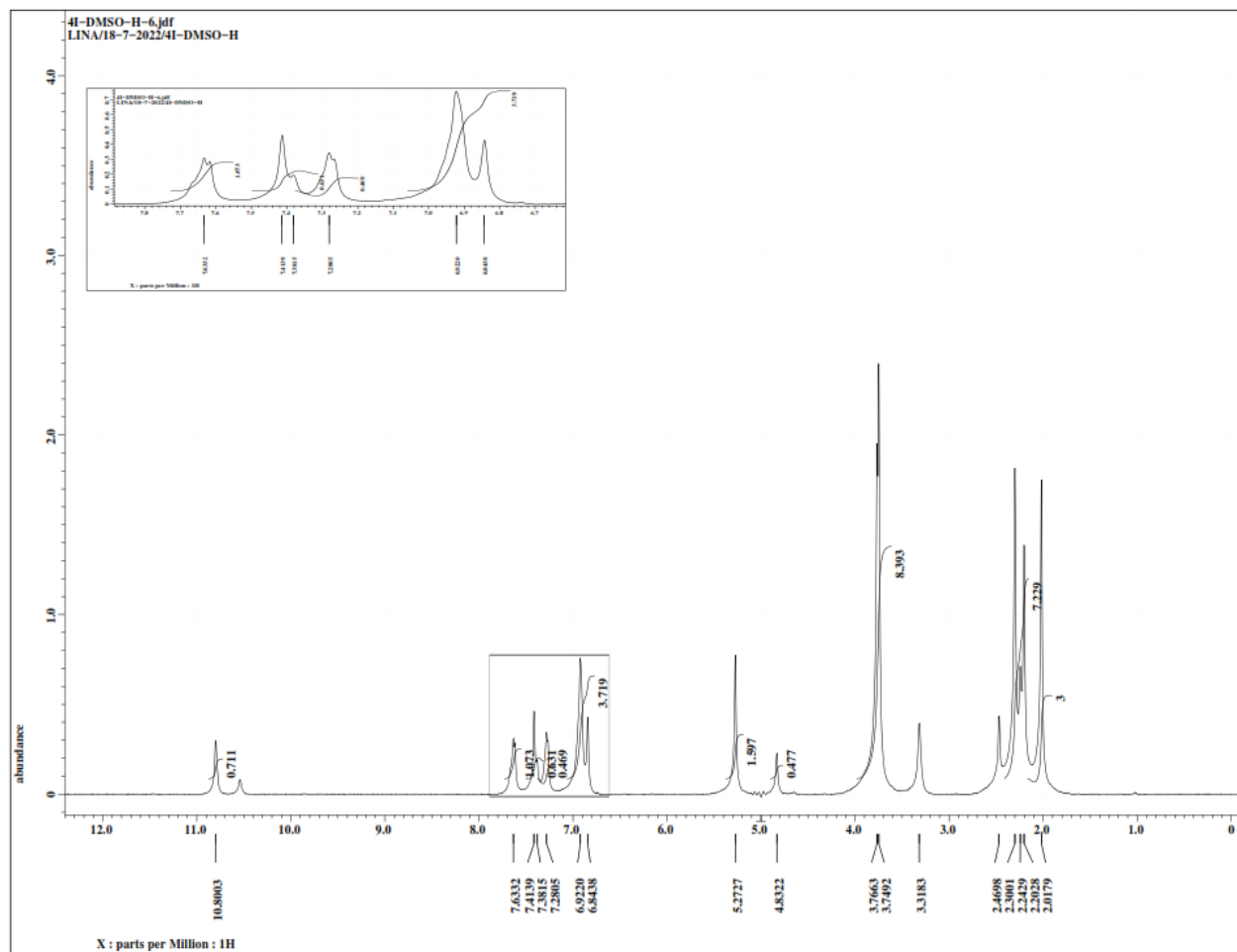


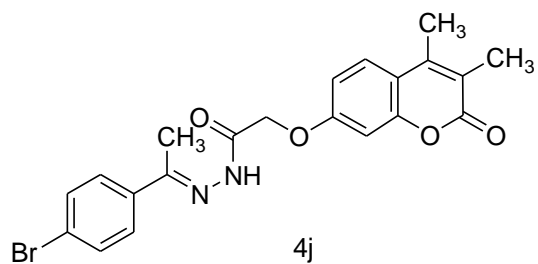
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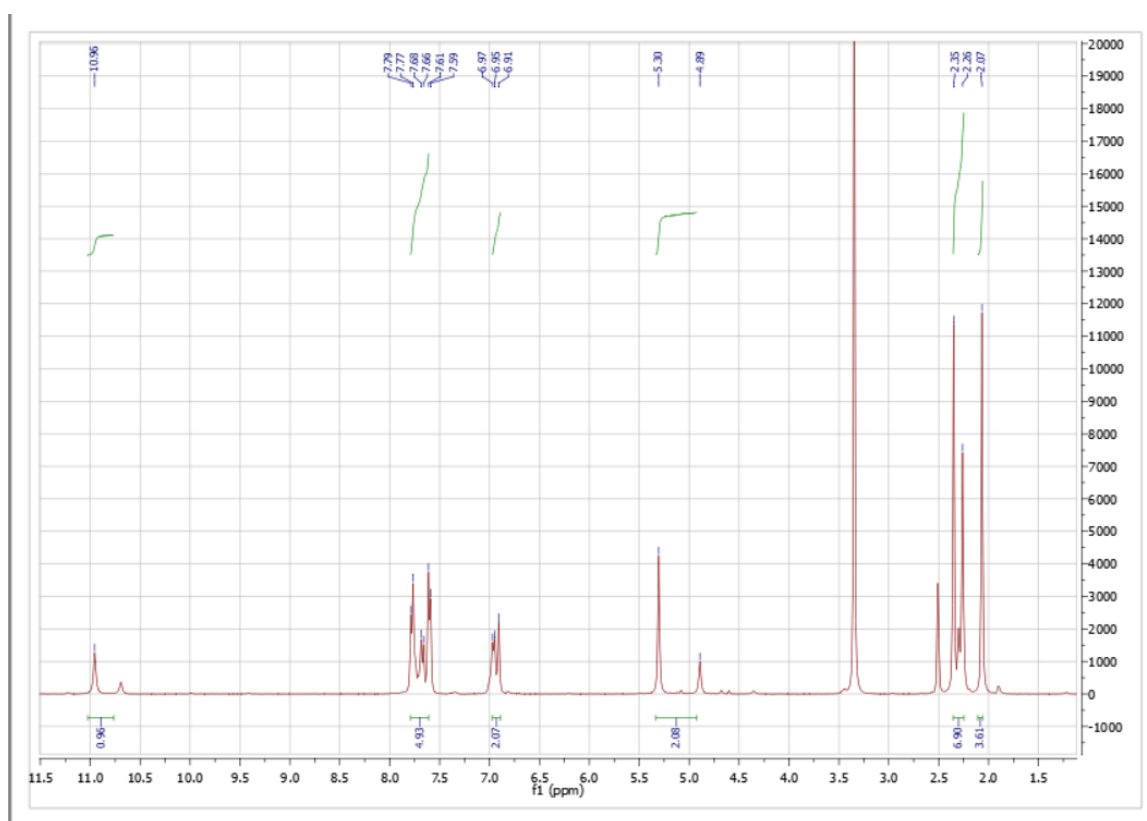


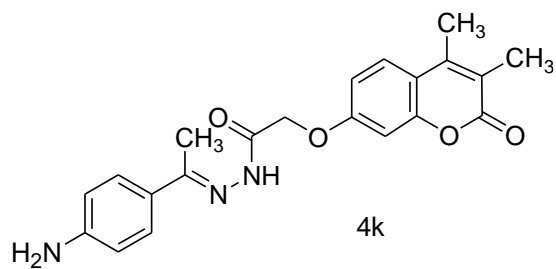
N'-(1-(3,4-dimethoxyphenyl)ethylidene)-2-((3,4-dimethyl-2-oxo-2H-chromen-7-yl)oxy)acetohydrazide



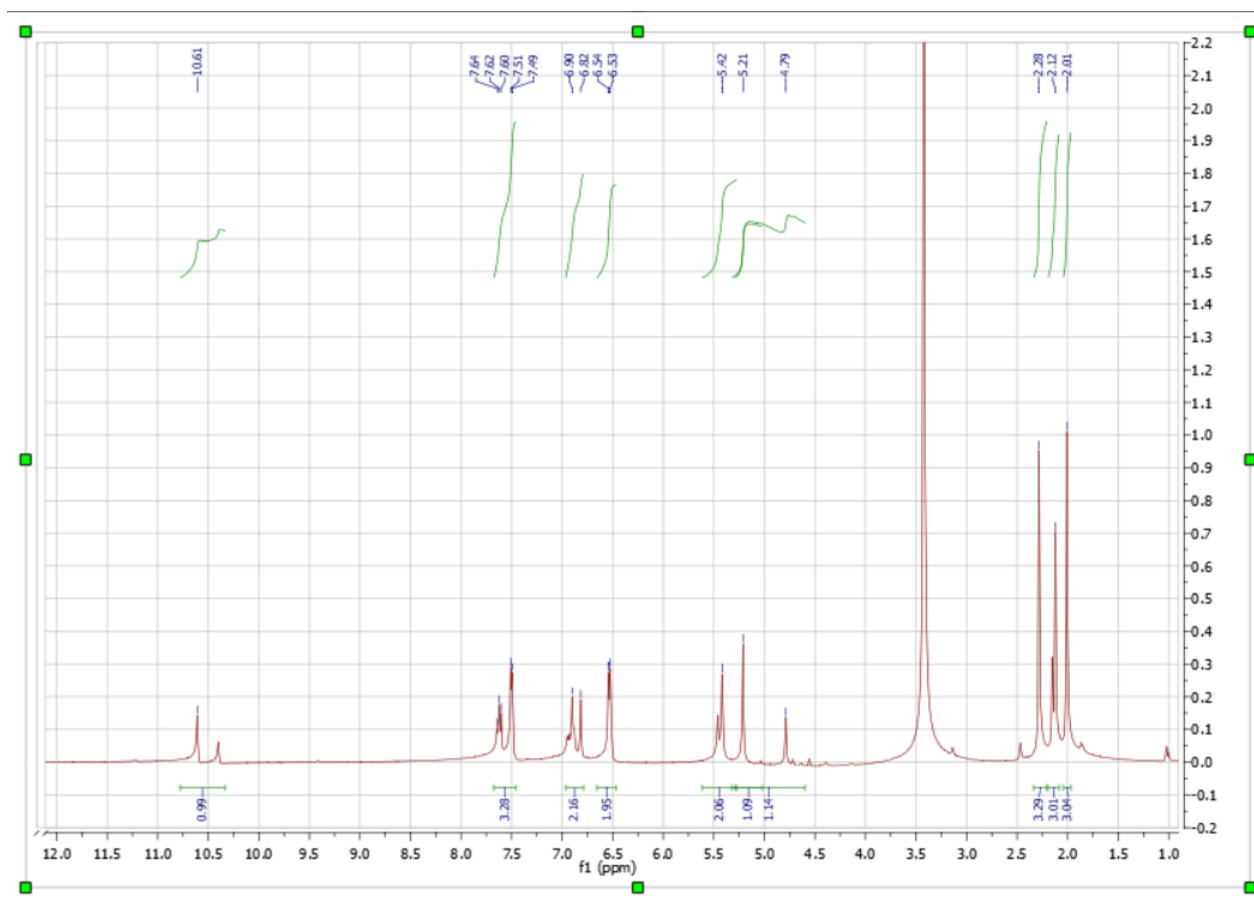


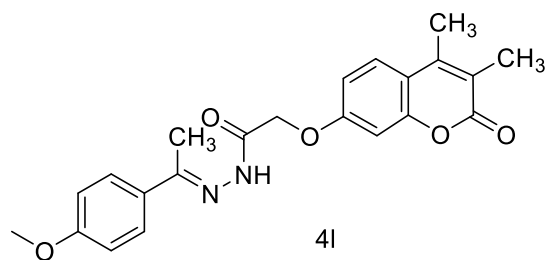
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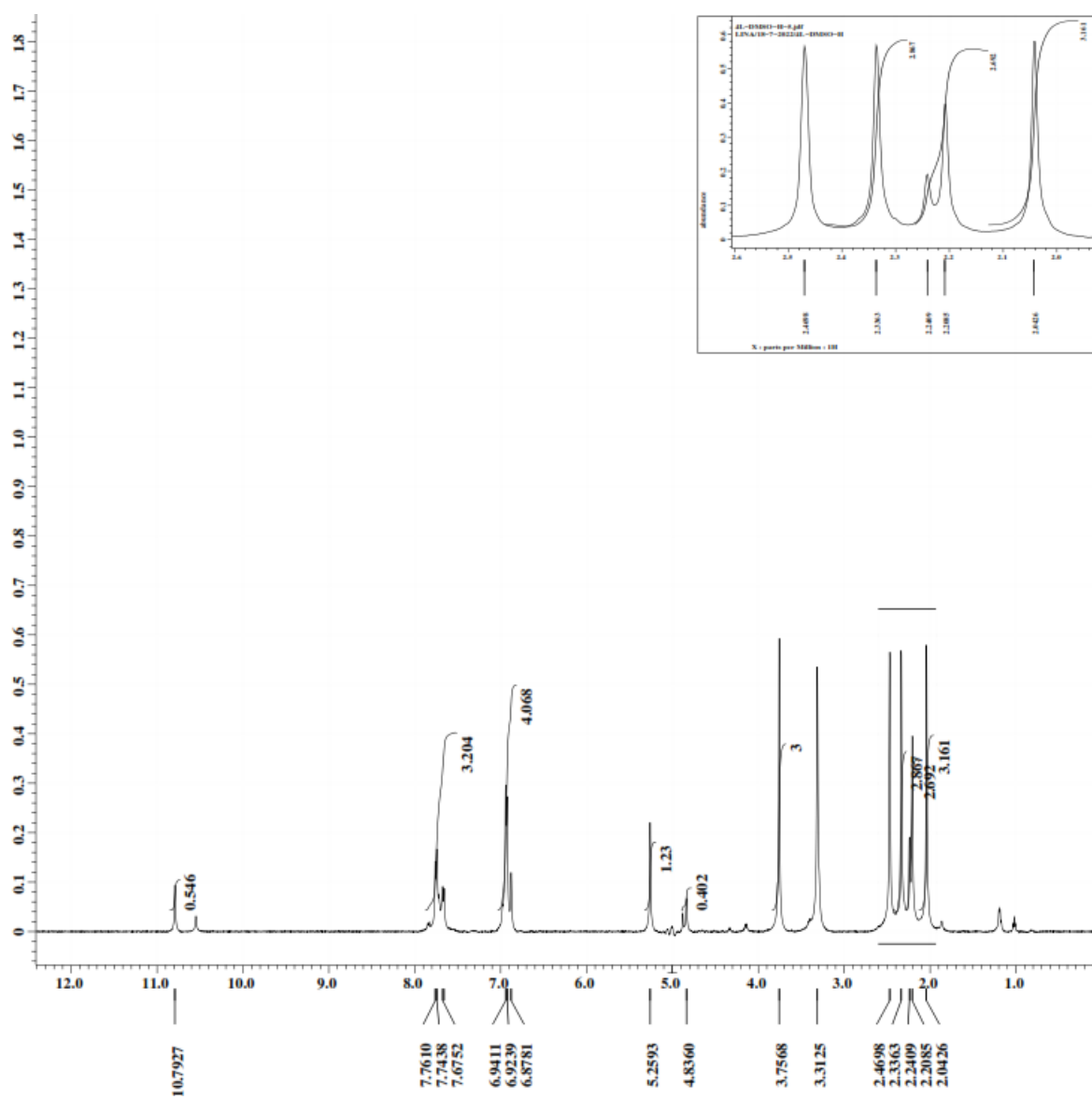


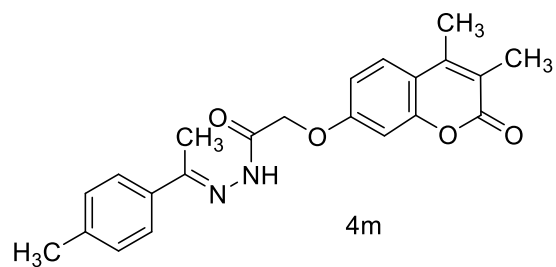
N'-(1-(4-aminophenyl)ethylidene)-2-((3,4-dimethyl-2-oxo-2H-chromen-7-yl)oxy)acetohydrazide



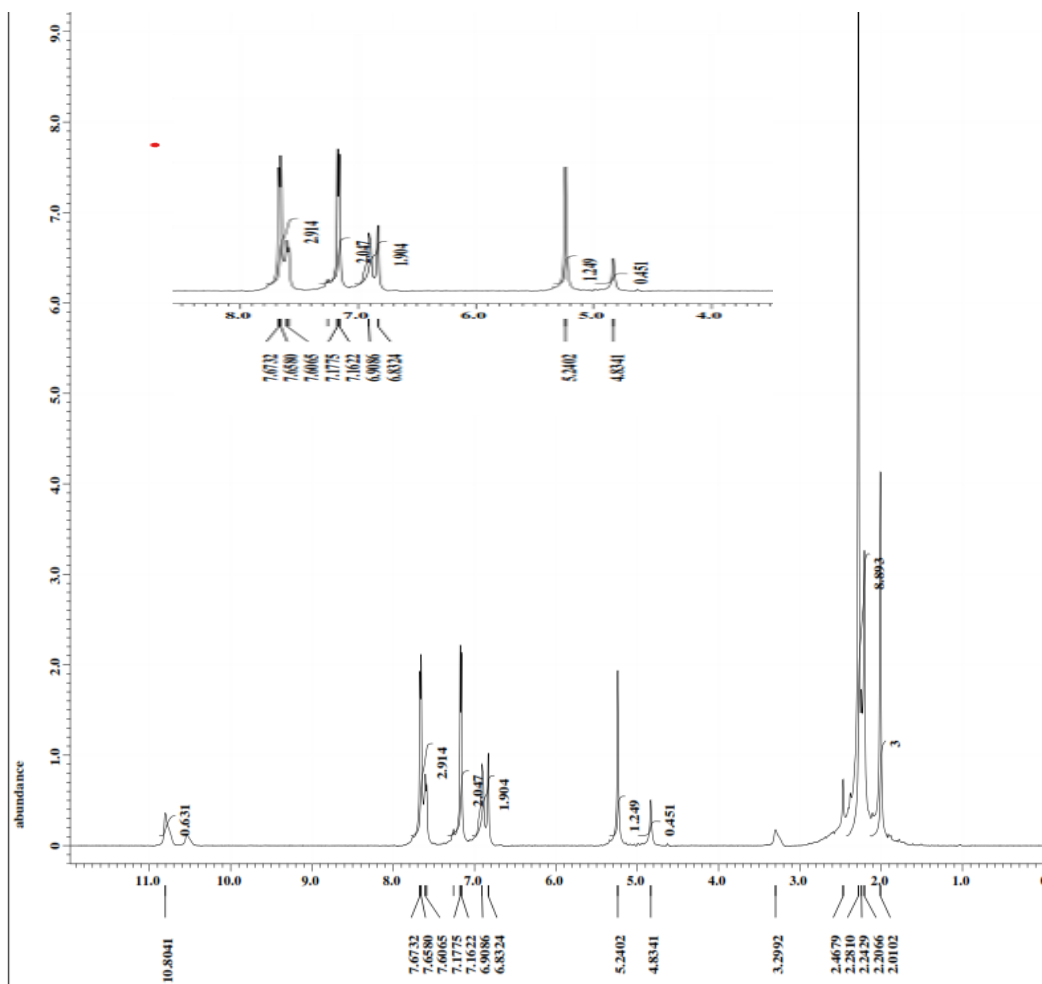


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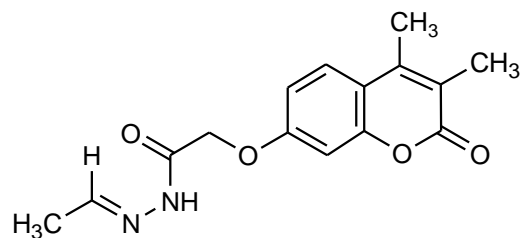




2-((3,4-dimethyl-2-oxo-2H-chromen-7-yl)oxy)-N'-(1-(p-tolyl)ethylidene)acetohydrazide

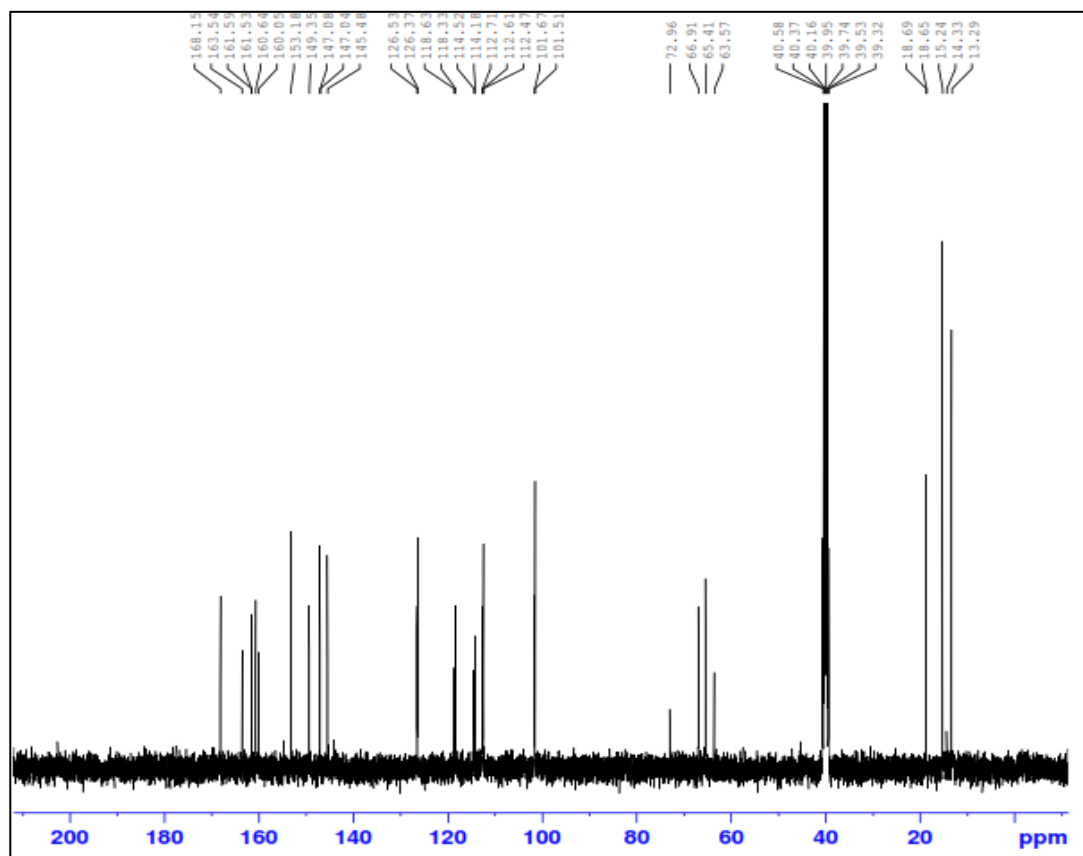


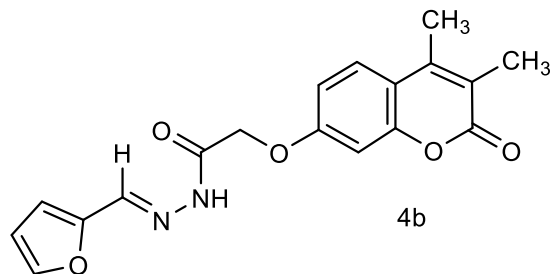
¹³C-NMR



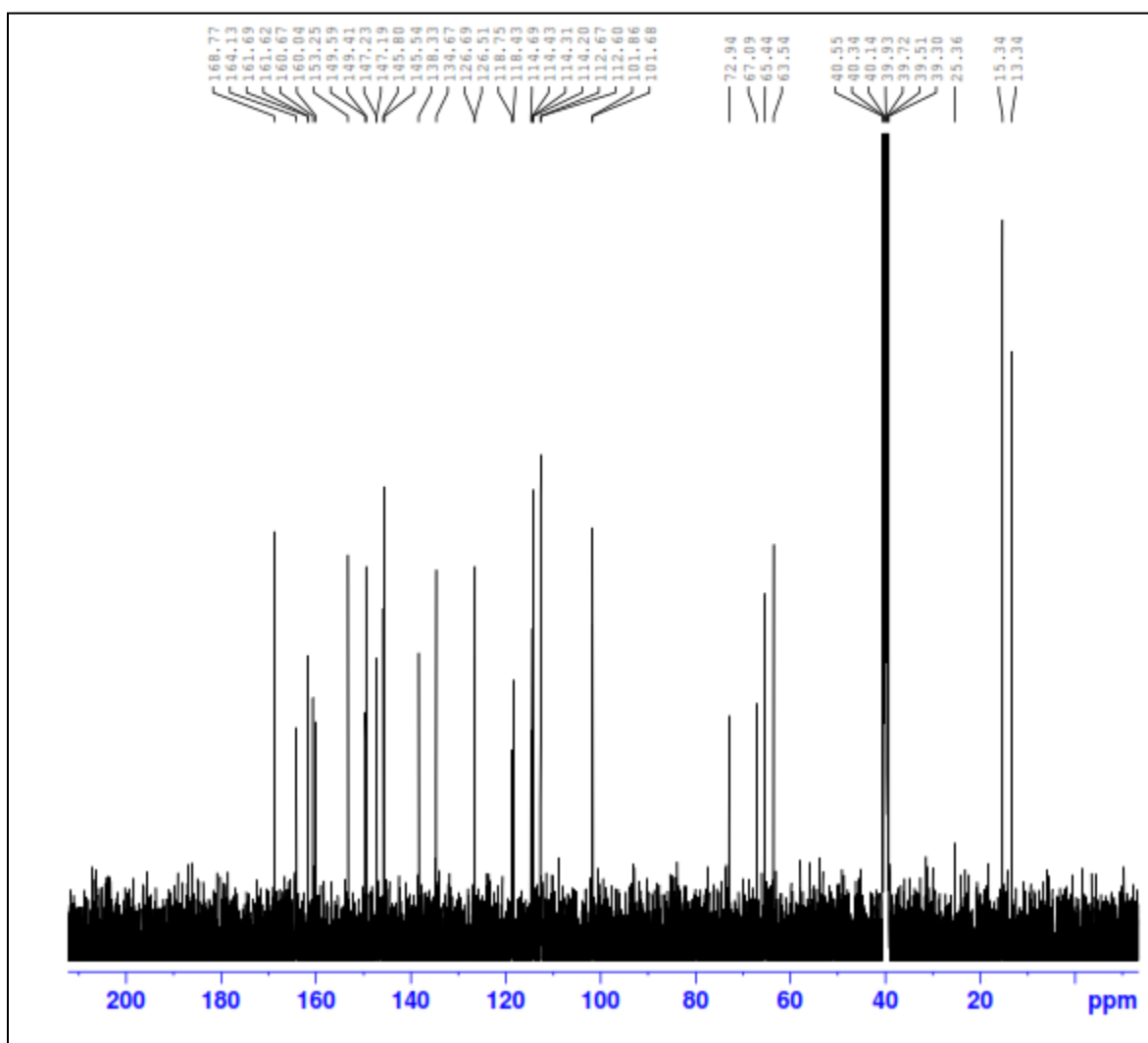
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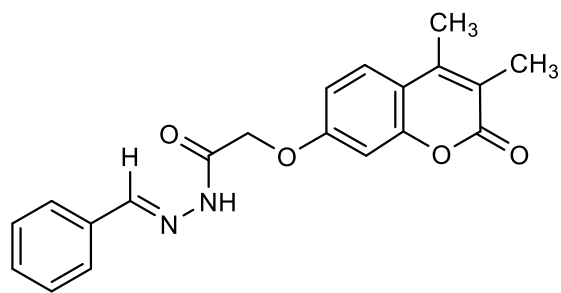
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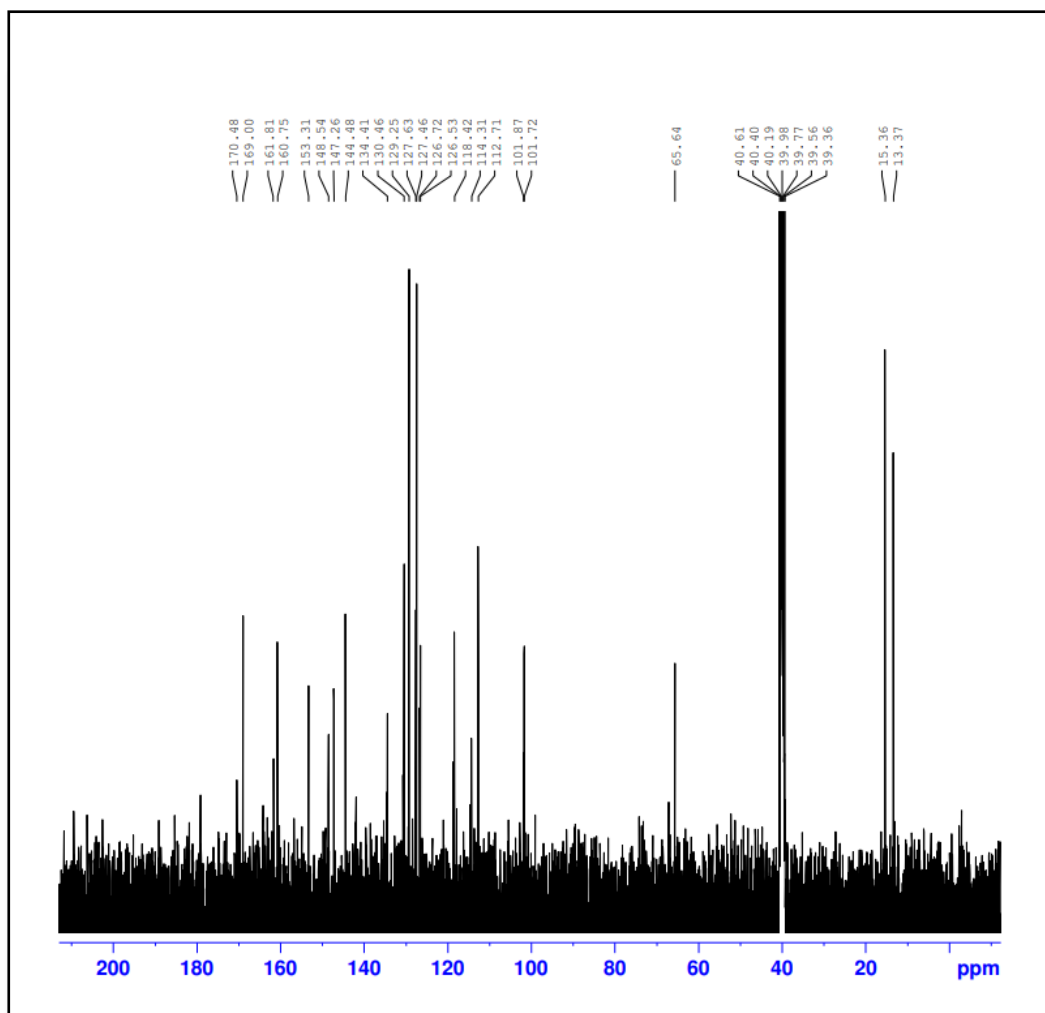
2-((3,4-dimethyl-2-oxo-2H-chromen-7-yl)oxy)-N'-(furan-2-ylmethylene)acetohydrazide

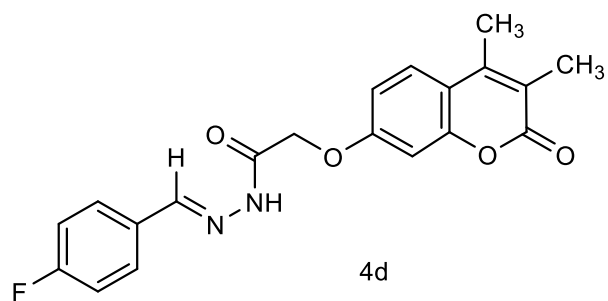




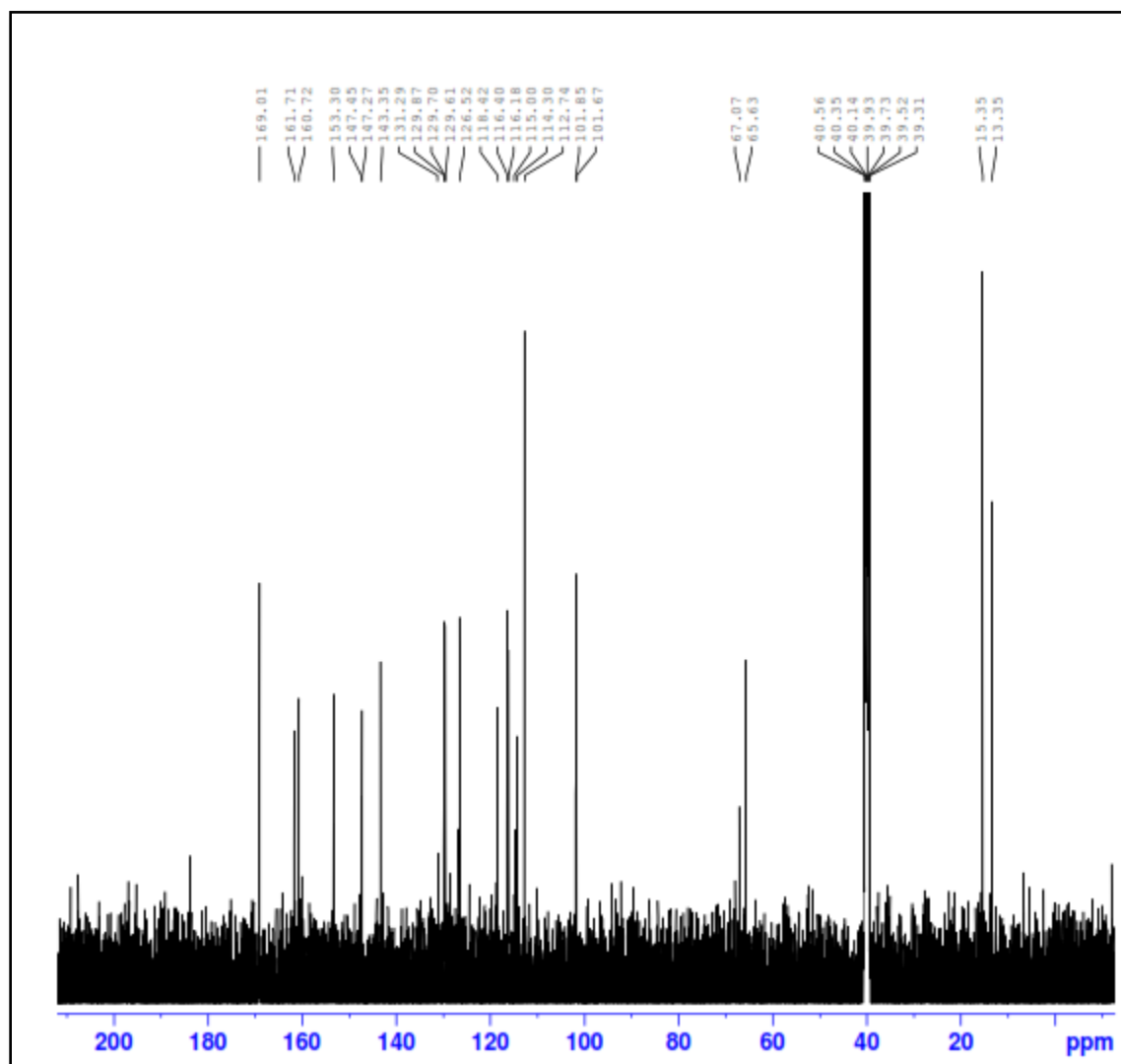
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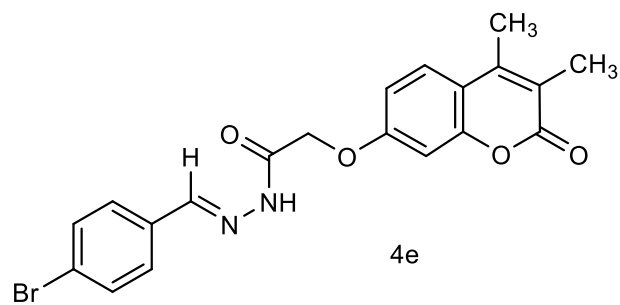
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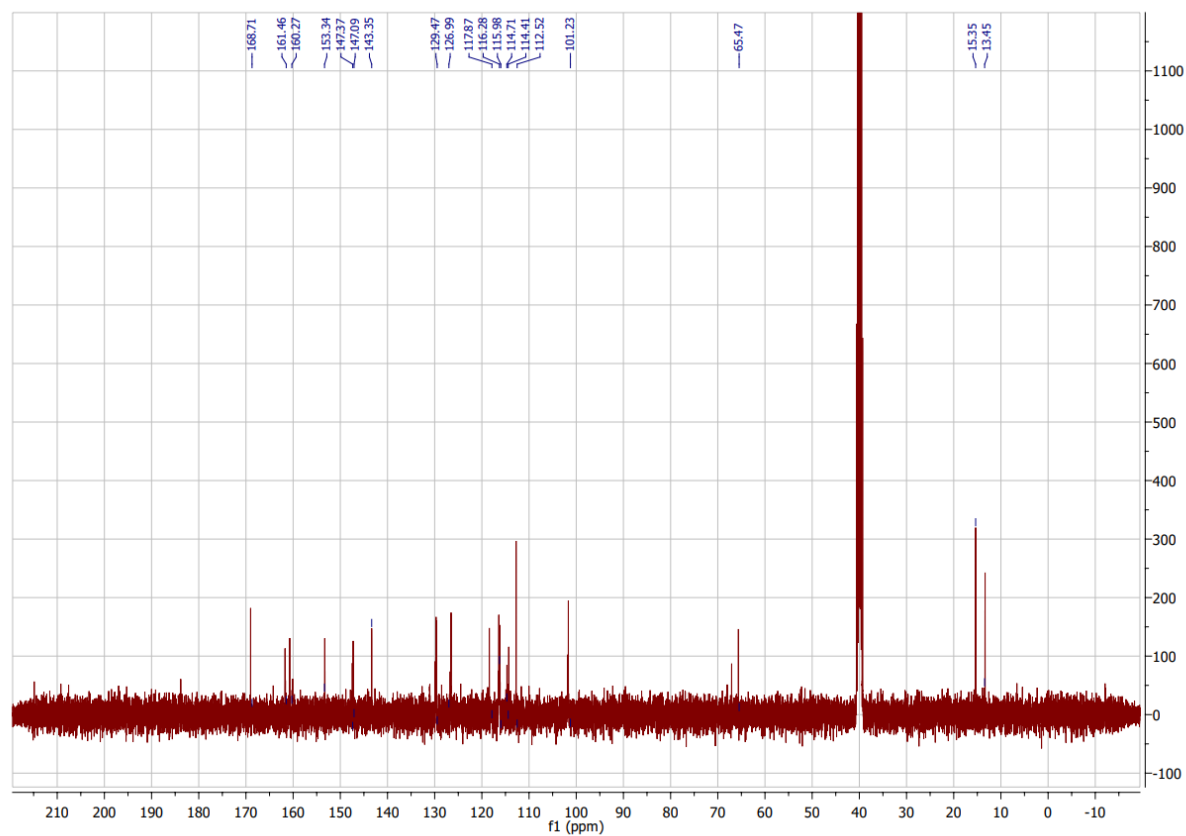


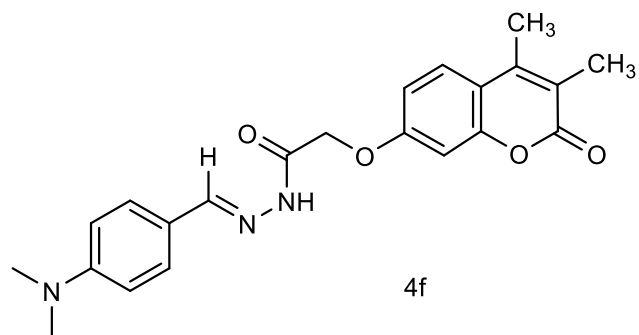
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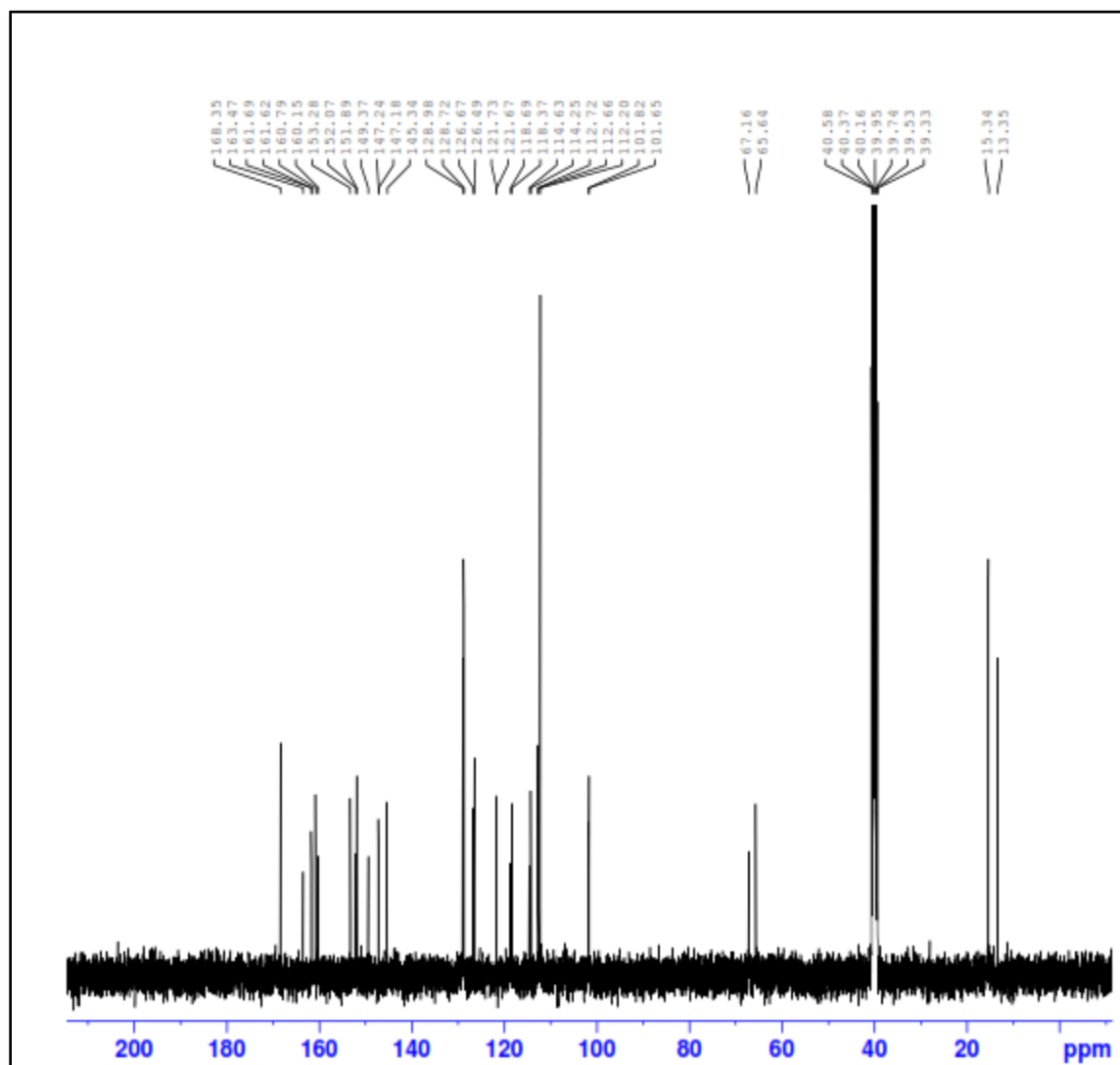


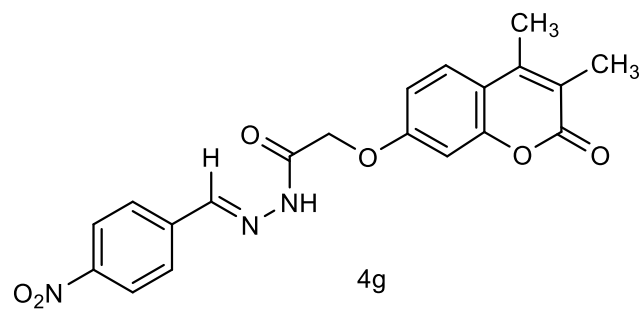
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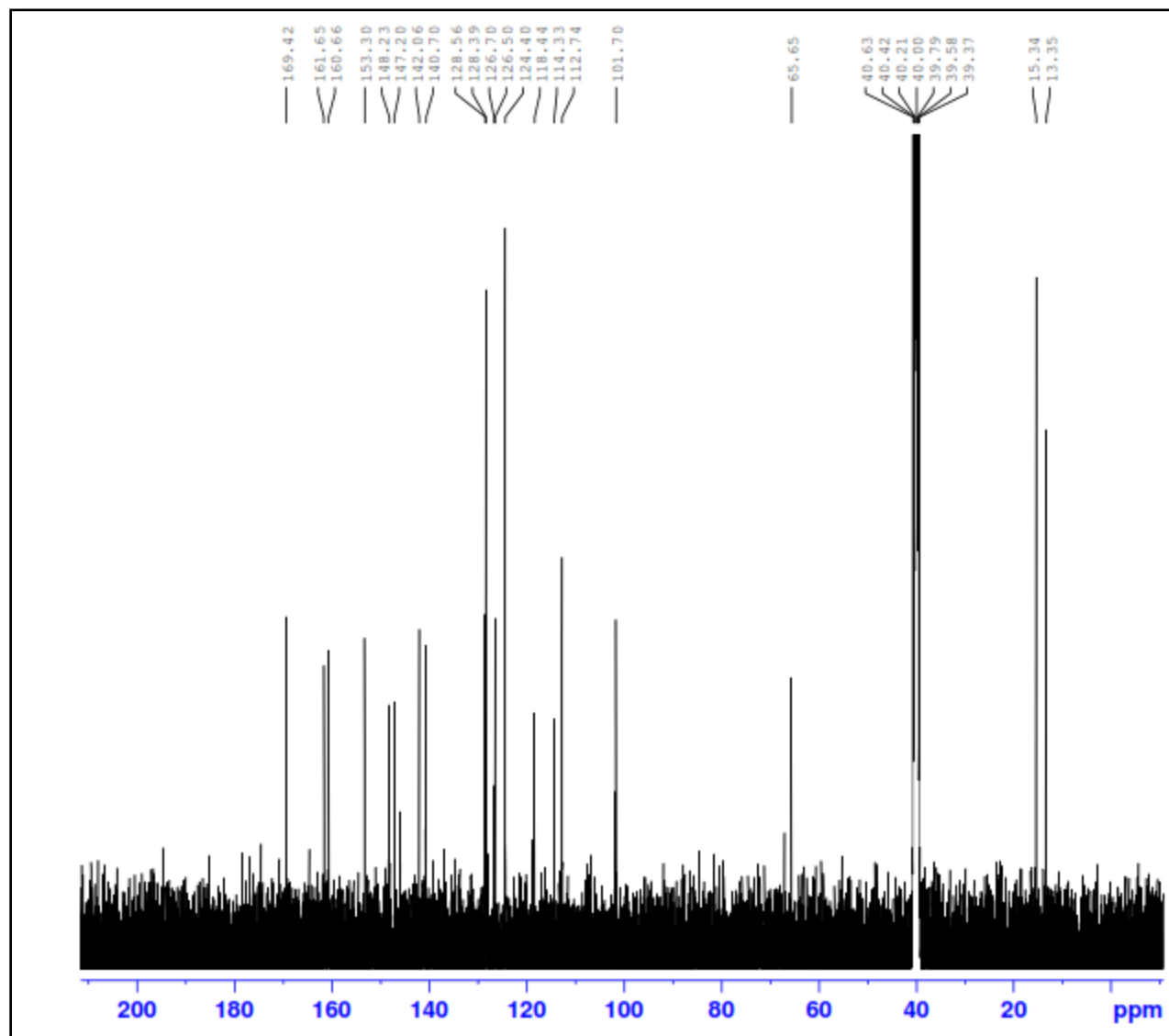


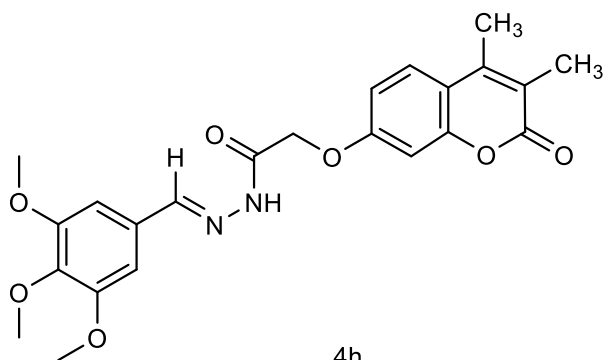
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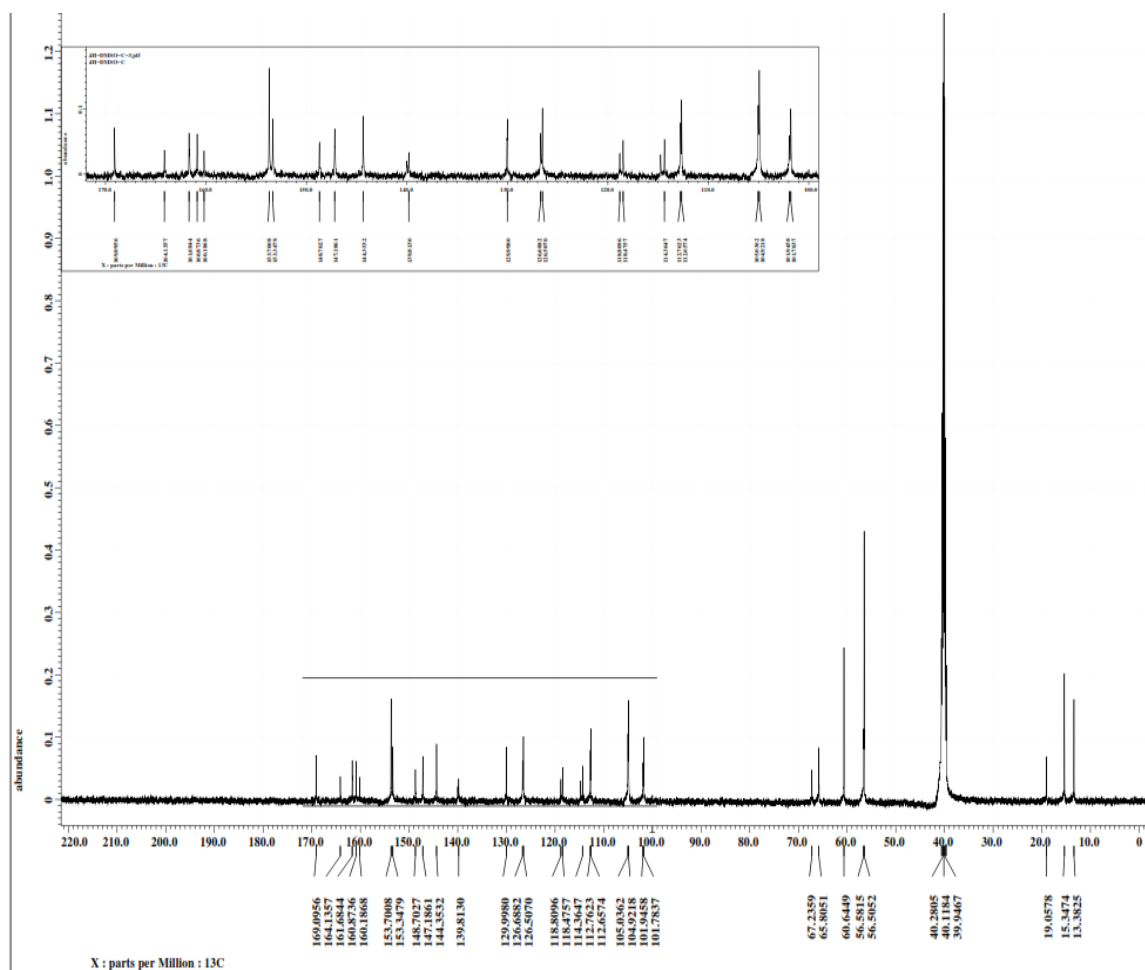
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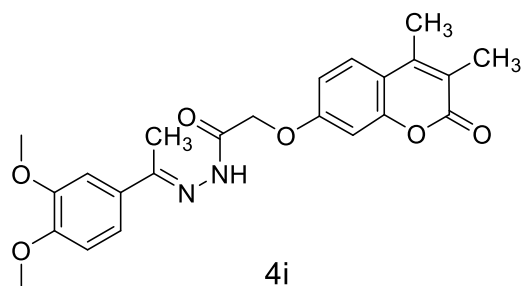




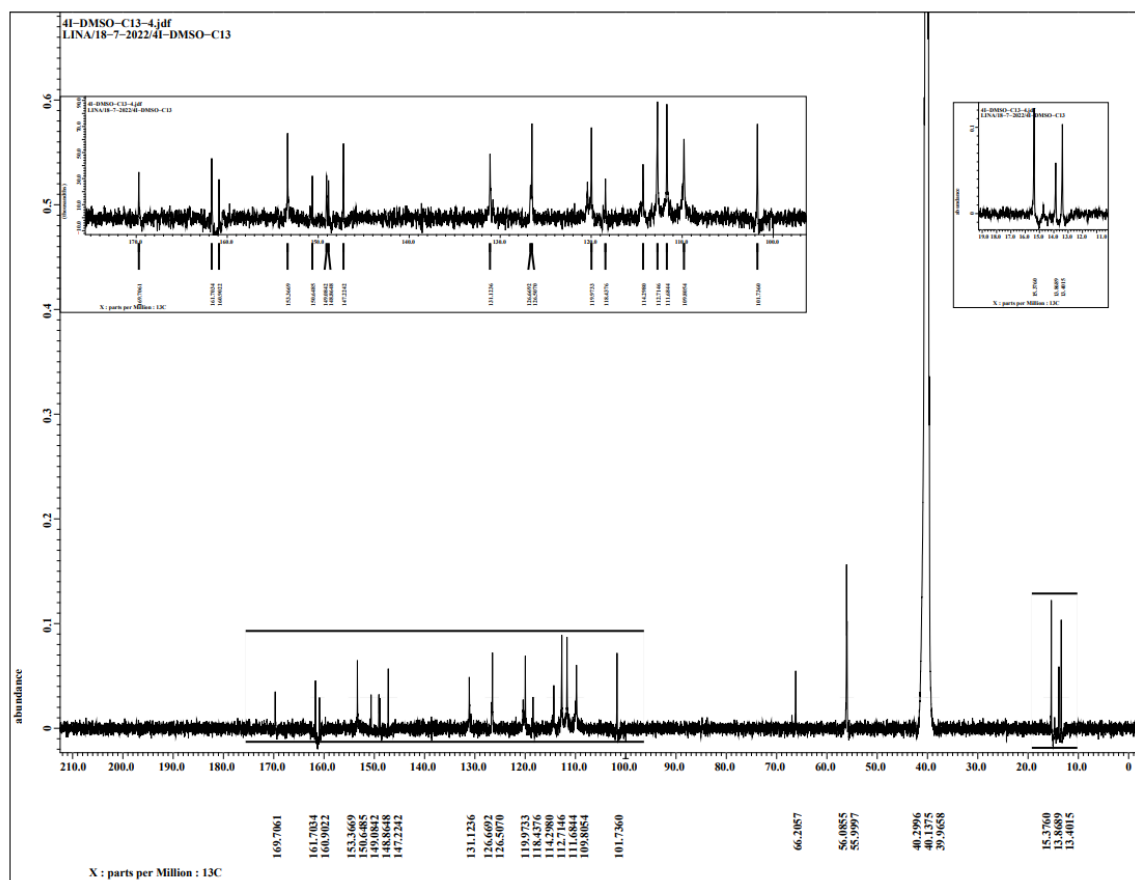
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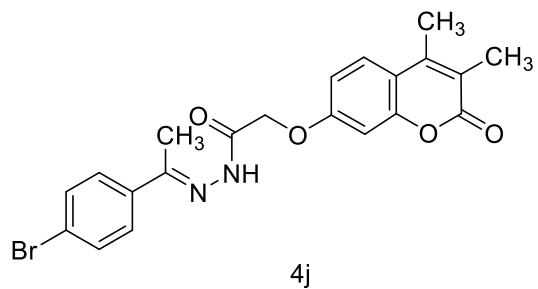
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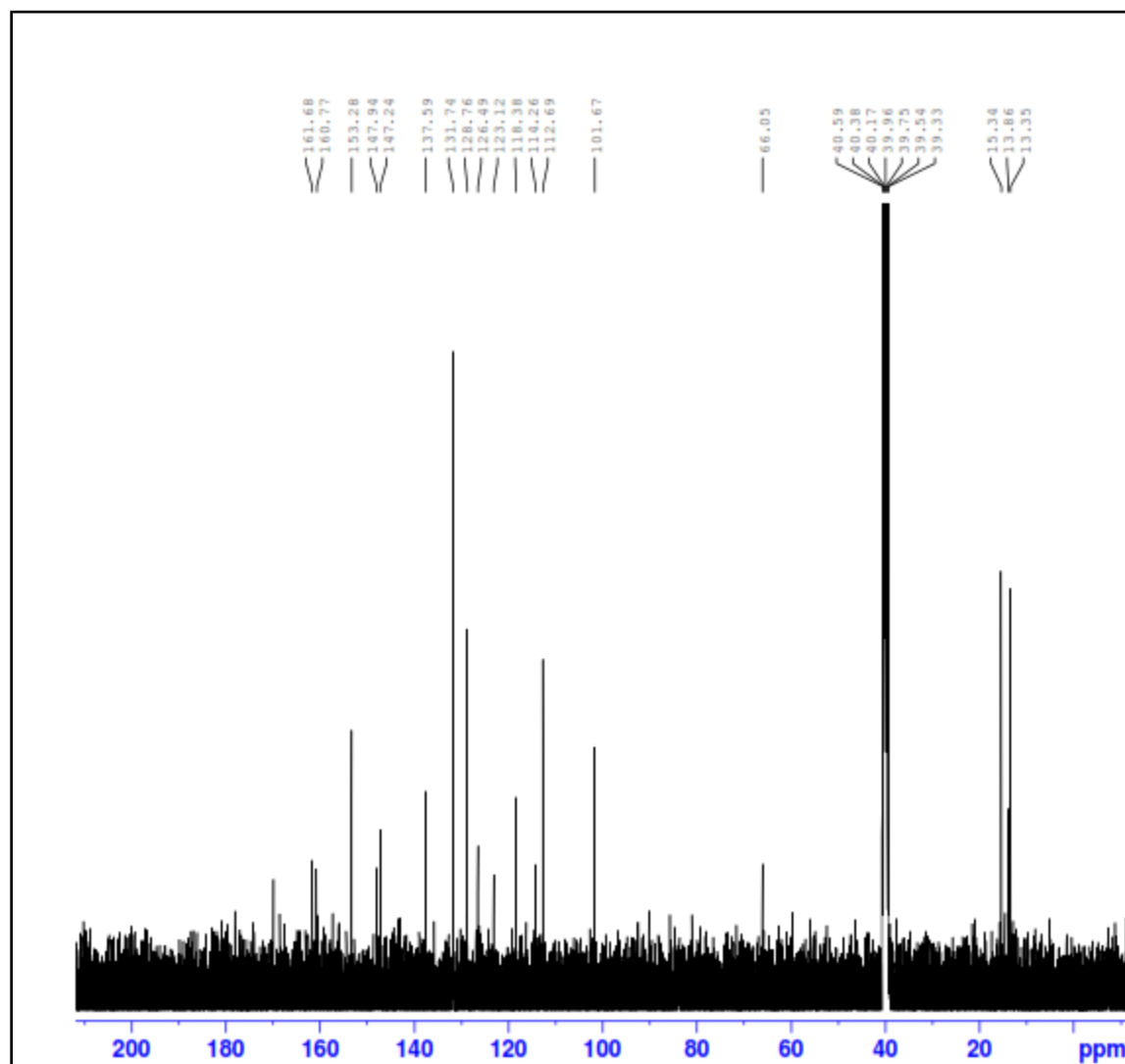


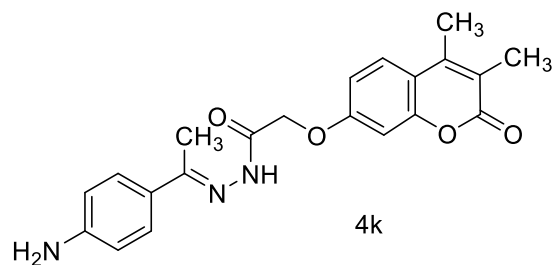
N'-(1-(3,4-dimethoxyphenyl)ethylidene)-2-((3,4-dimethyl-2-oxo-2H-chromen-7-yl)oxy)acetohydrazide



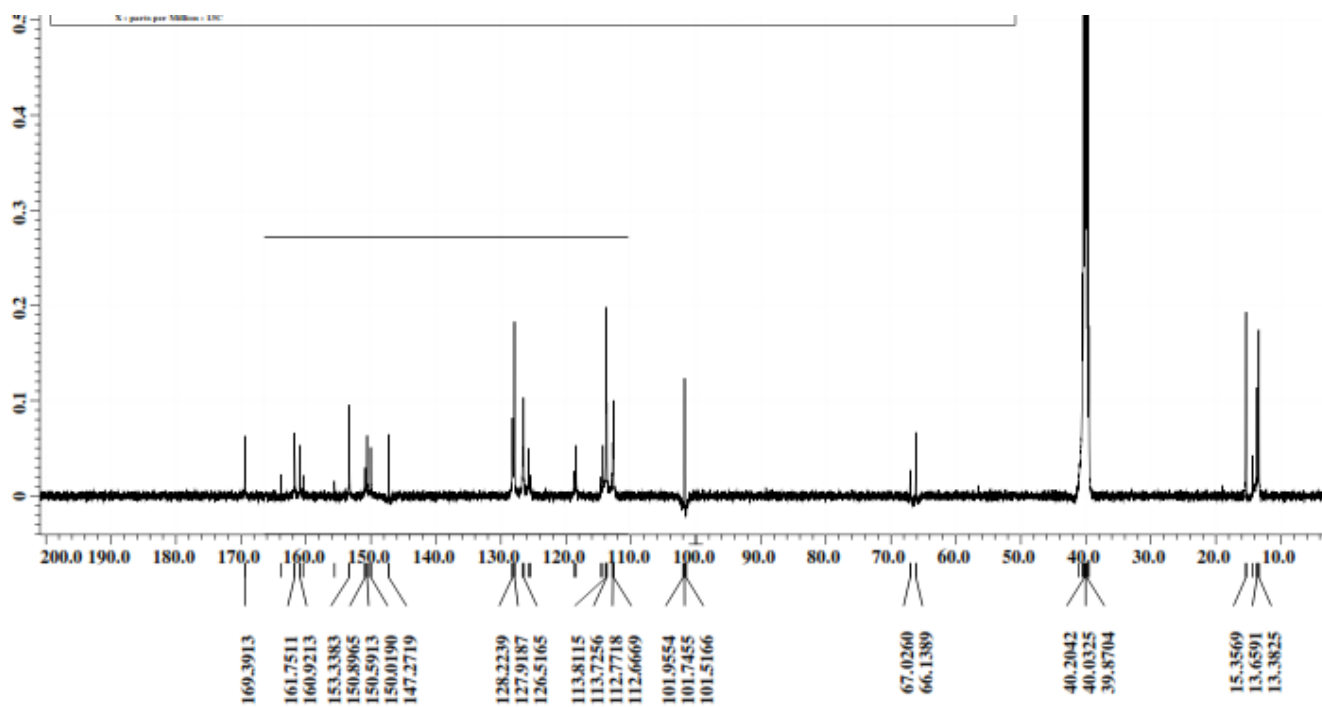


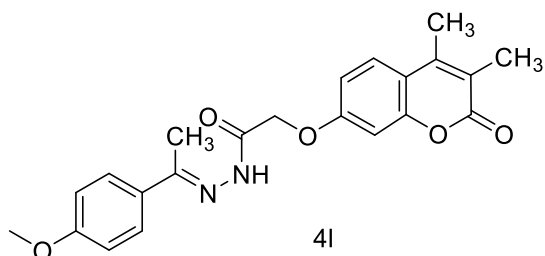
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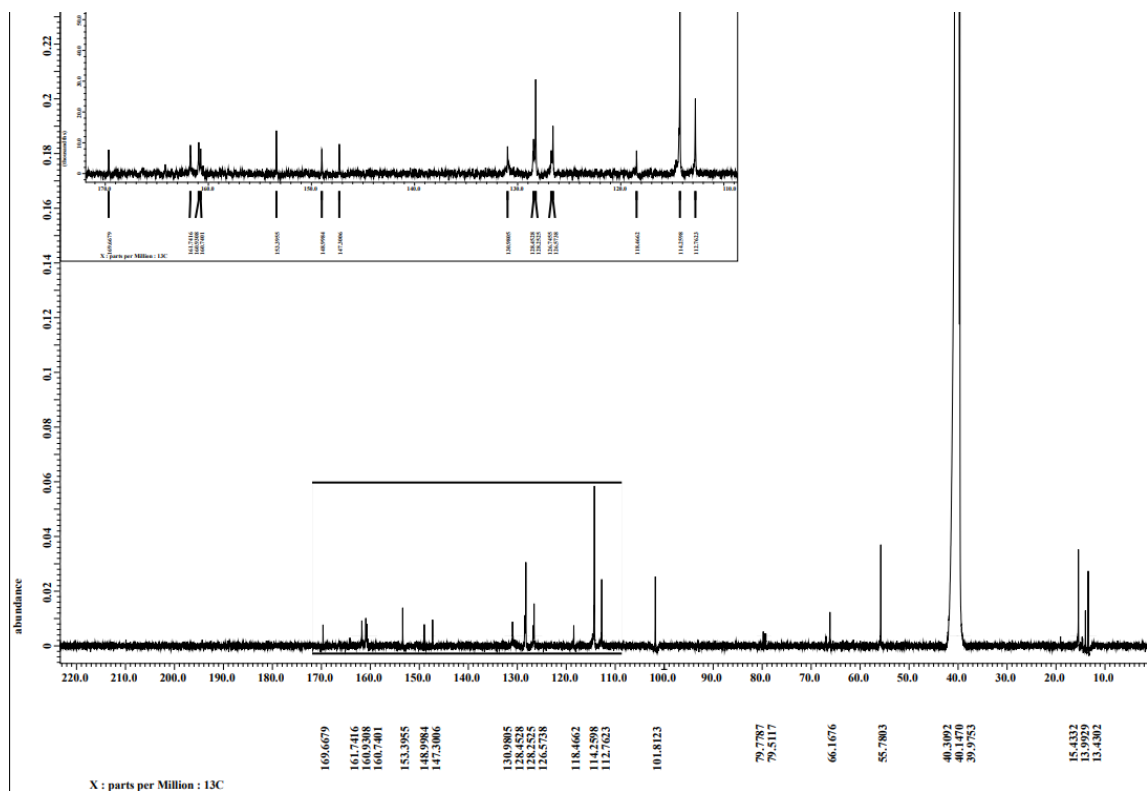


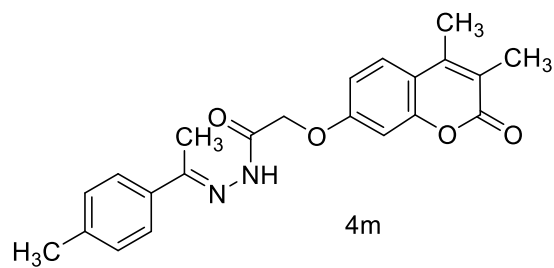
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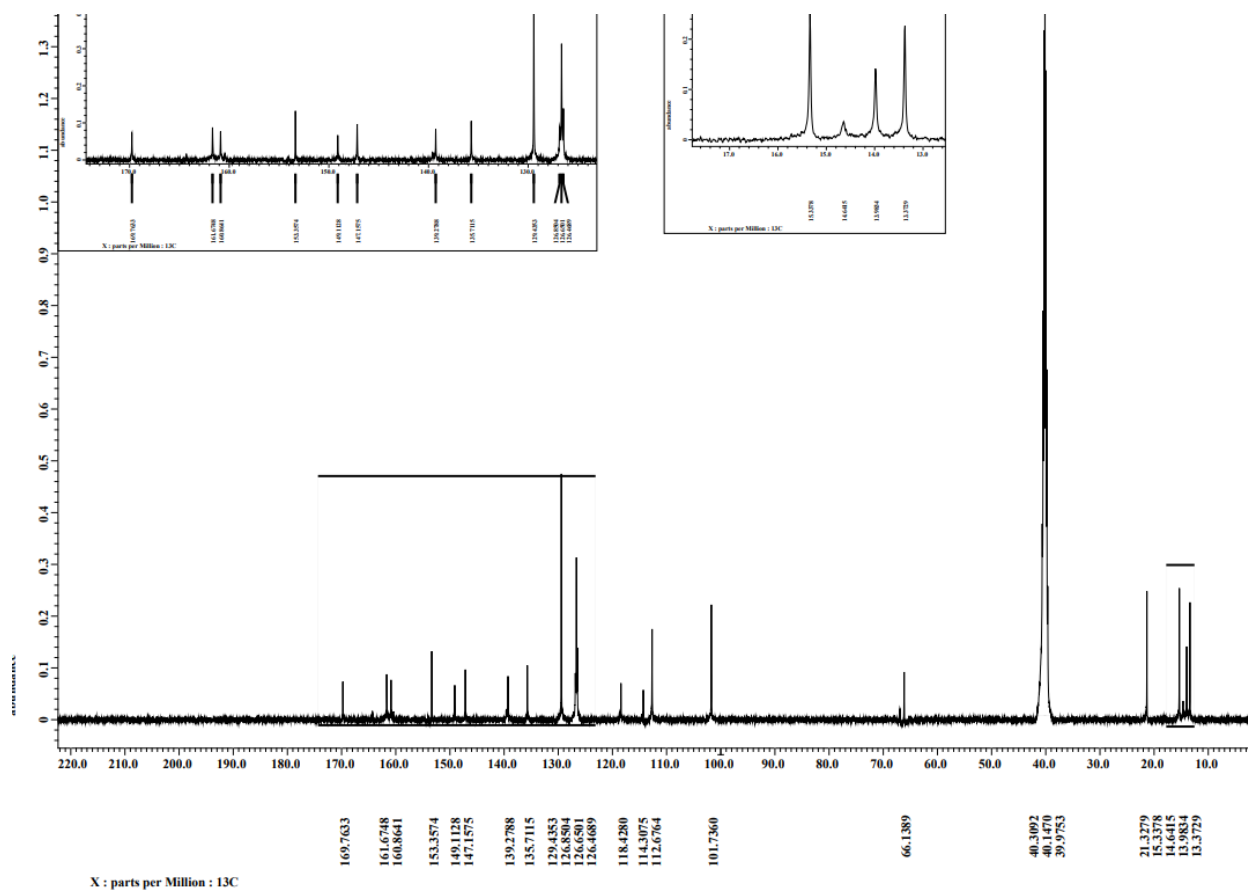


2-((3,4-dimethyl-2-oxo-2H-chromen-7-yl)oxy)-N'-(1-(4-methoxyphenyl)ethylidene)acetohydrazide





2-((3,4-dimethyl-2-oxo-2H-chromen-7-yl)oxy)-N'-(1-(p-tolyl)ethylidene)acetohydrazide



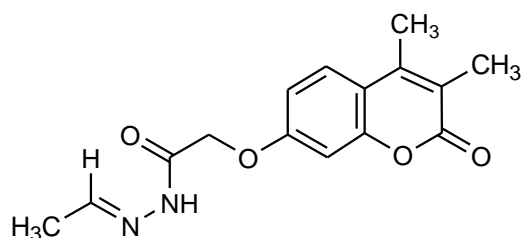
Supplementary Data

(New Journal of Chemistry)

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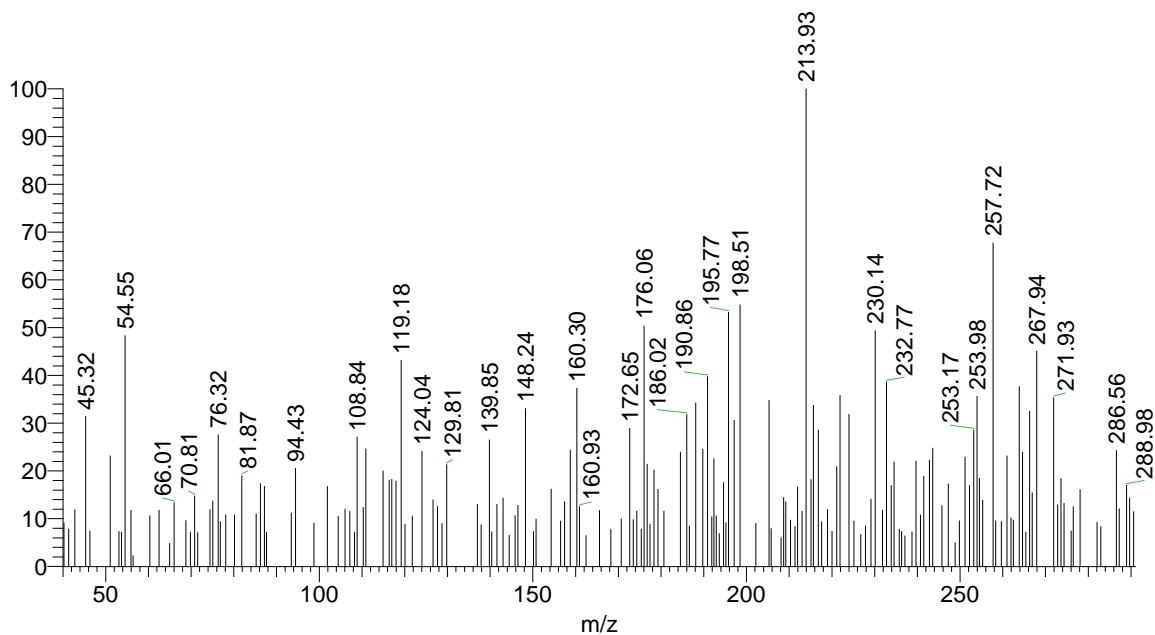
Lina M.A. Abdel Ghany,^a Nehad M. El-Dydamony,^a Amira A. Helwa,^{*b} Sahar M. Abdelraouf,^c Rana M. Abdelnaby^d

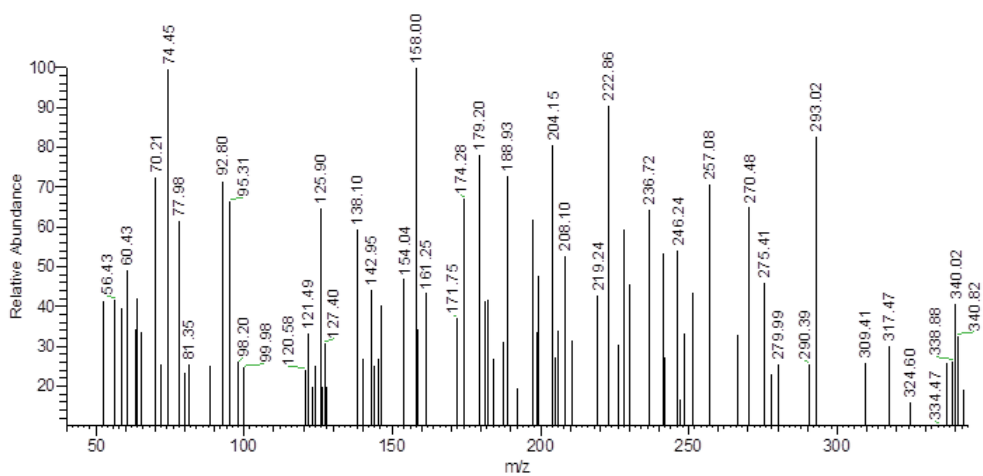
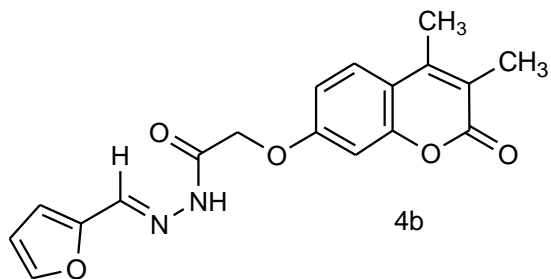
MASS

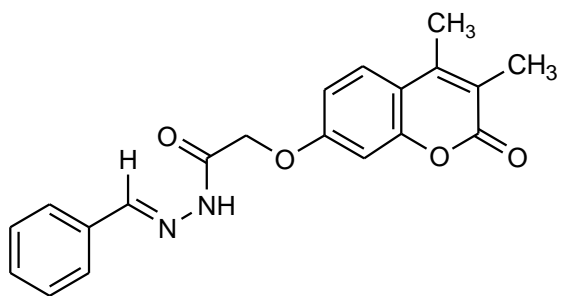


4a

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T: + c EI Full ms [40.00-1000.00]

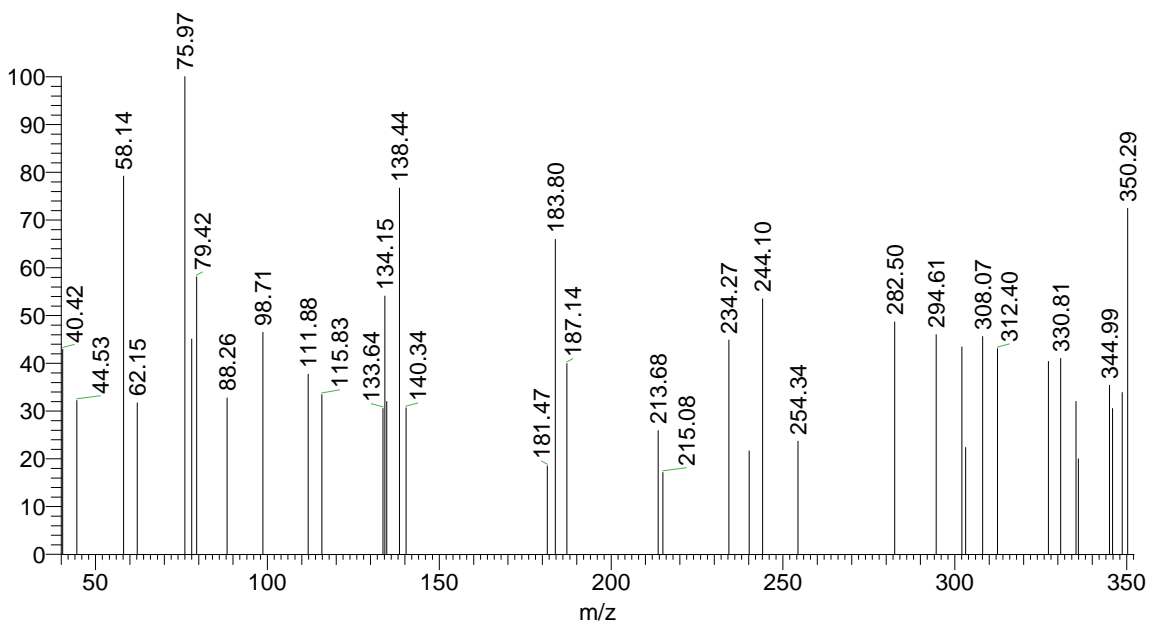


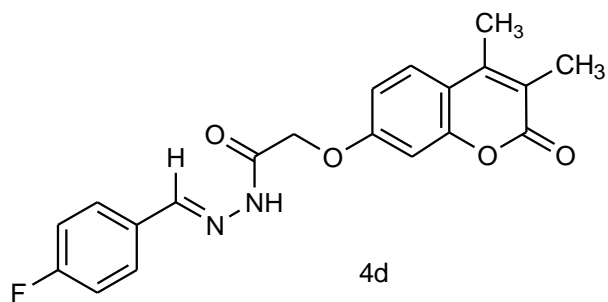




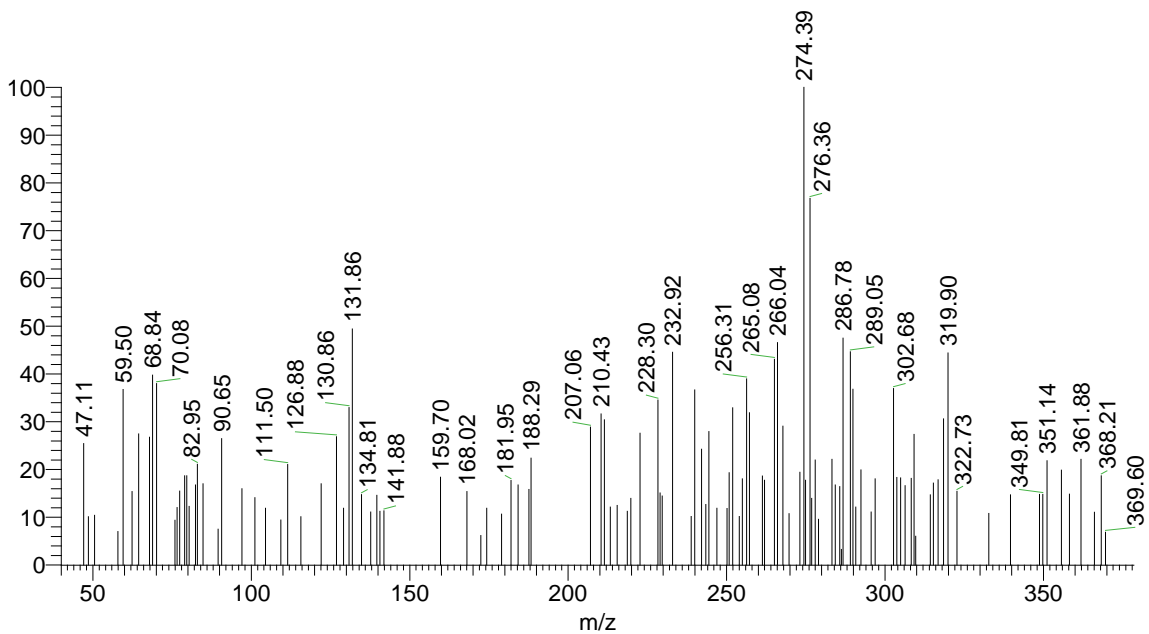
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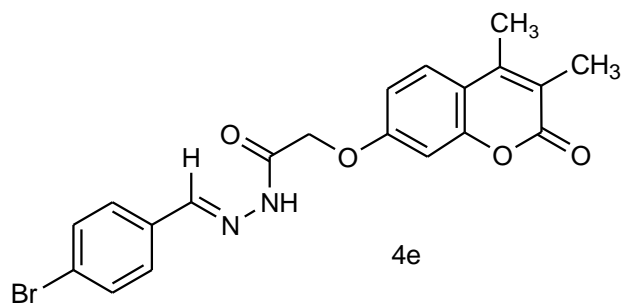
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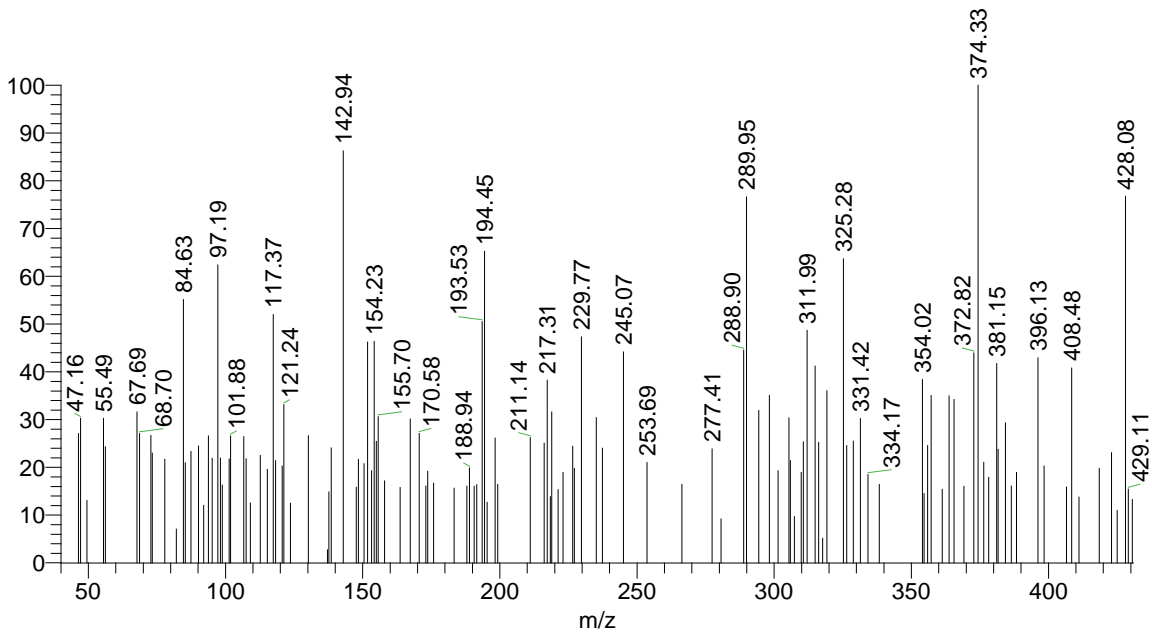


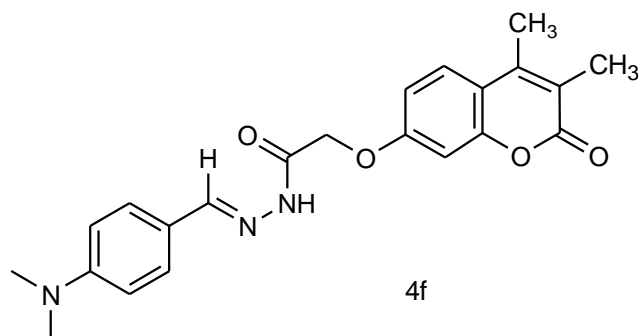
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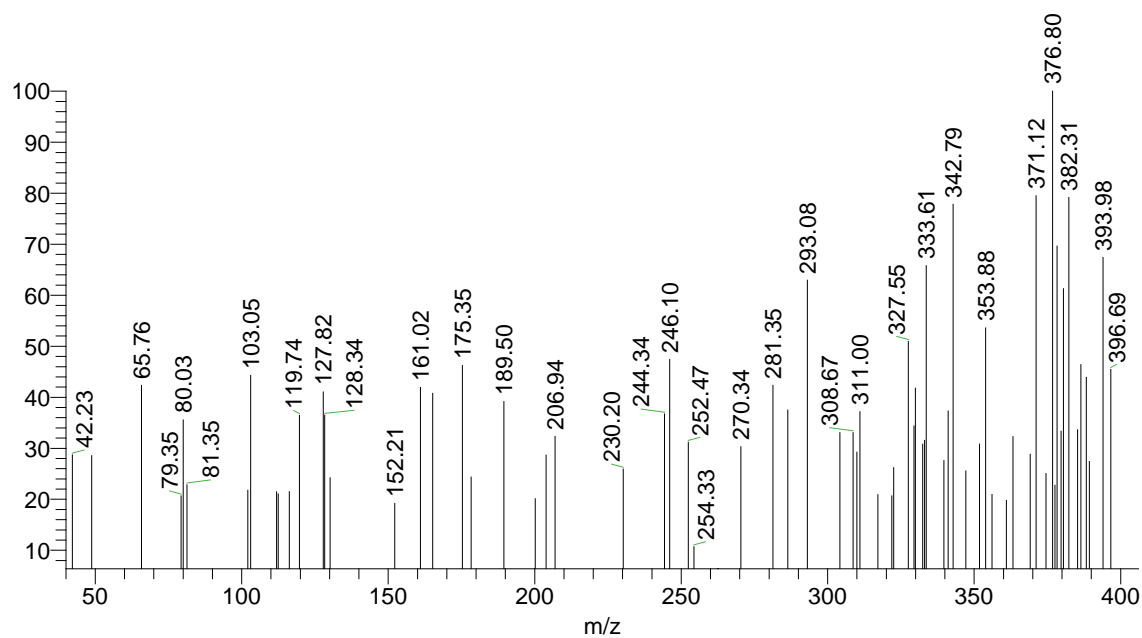


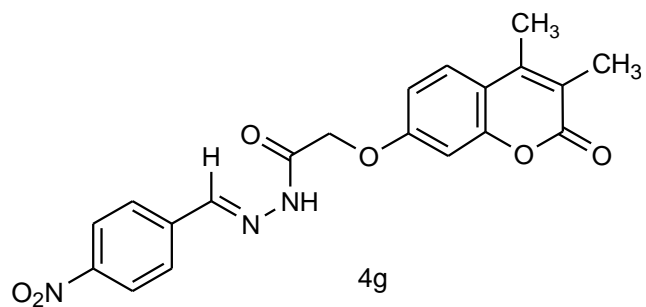
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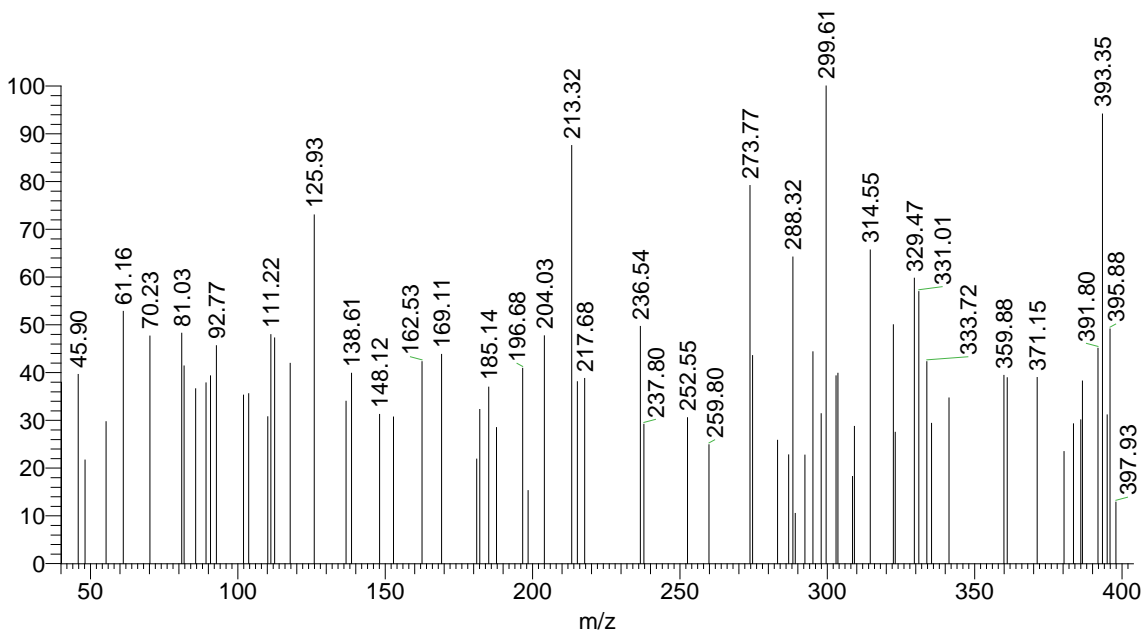


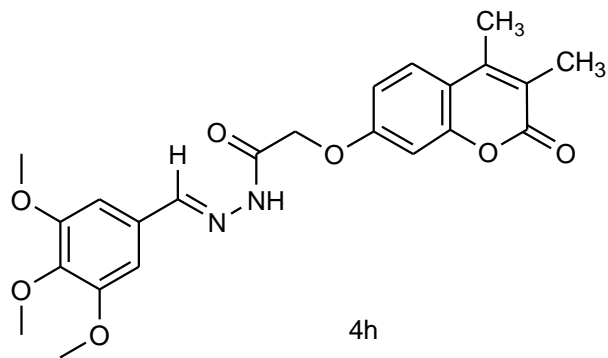
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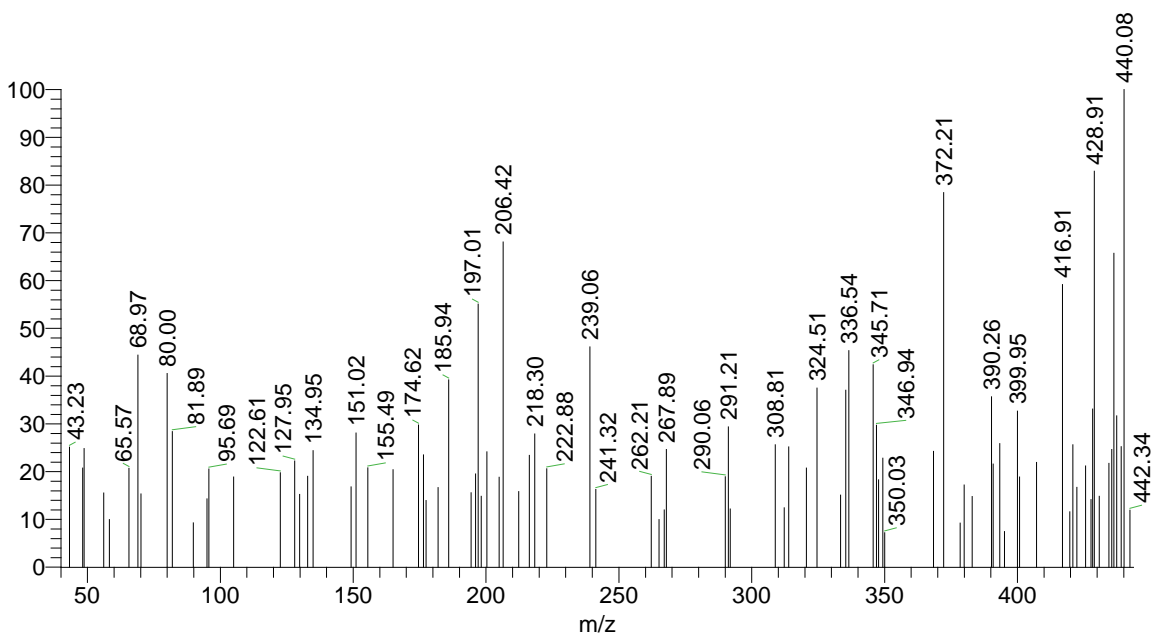


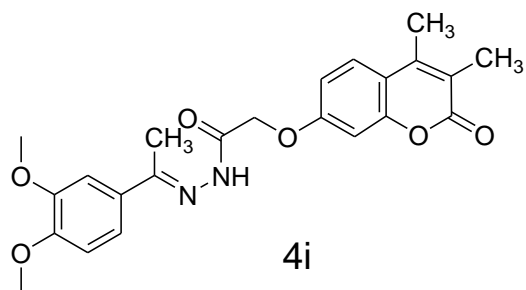
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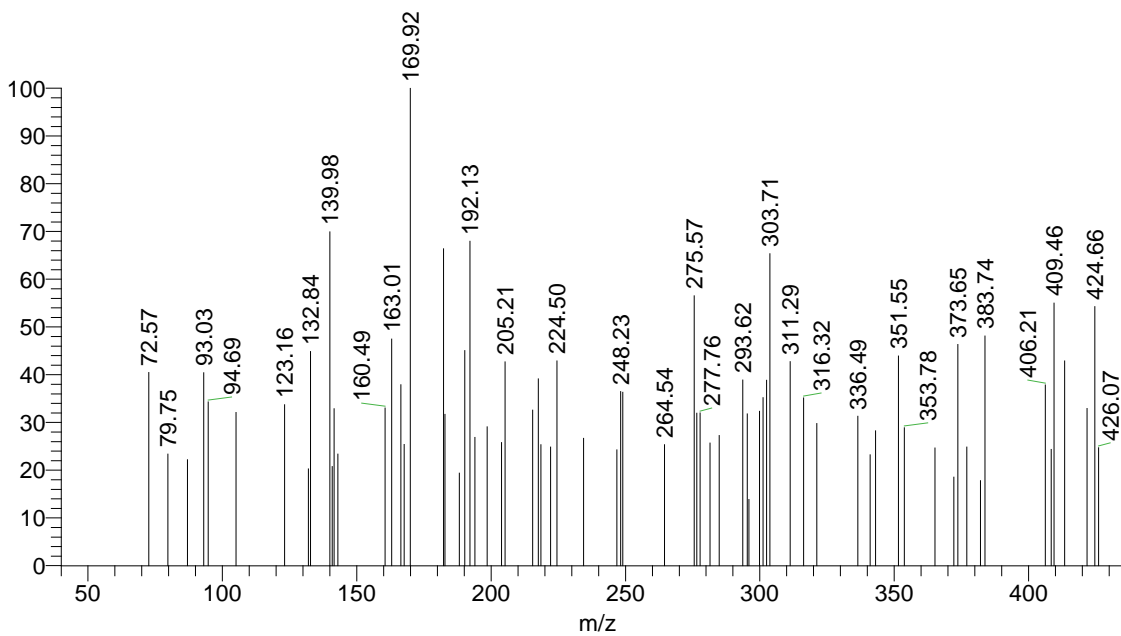


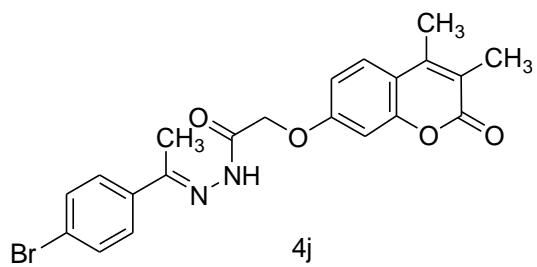
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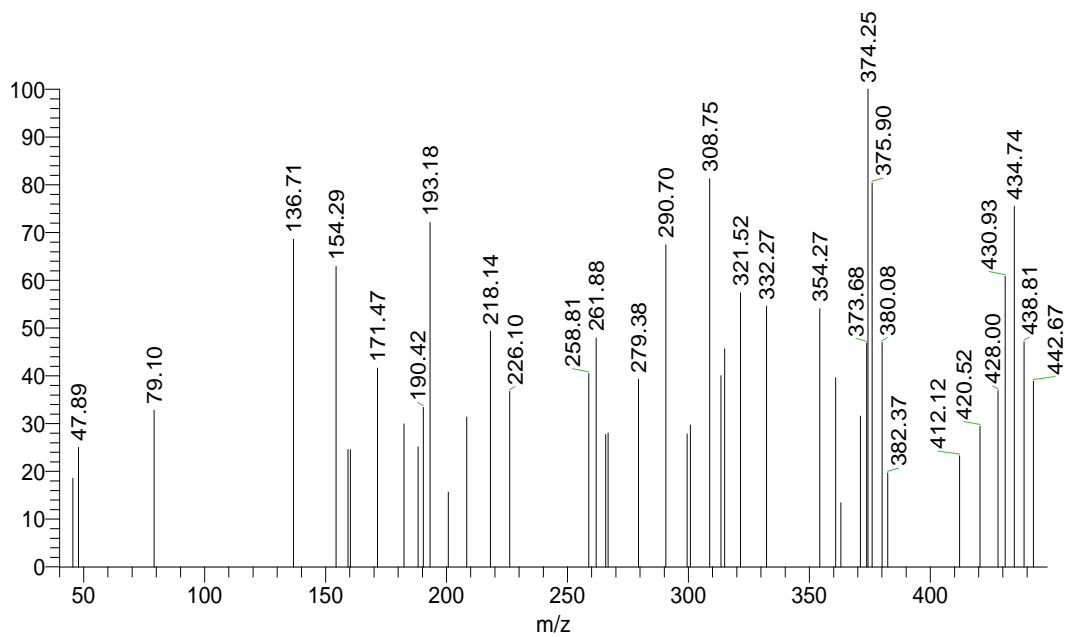


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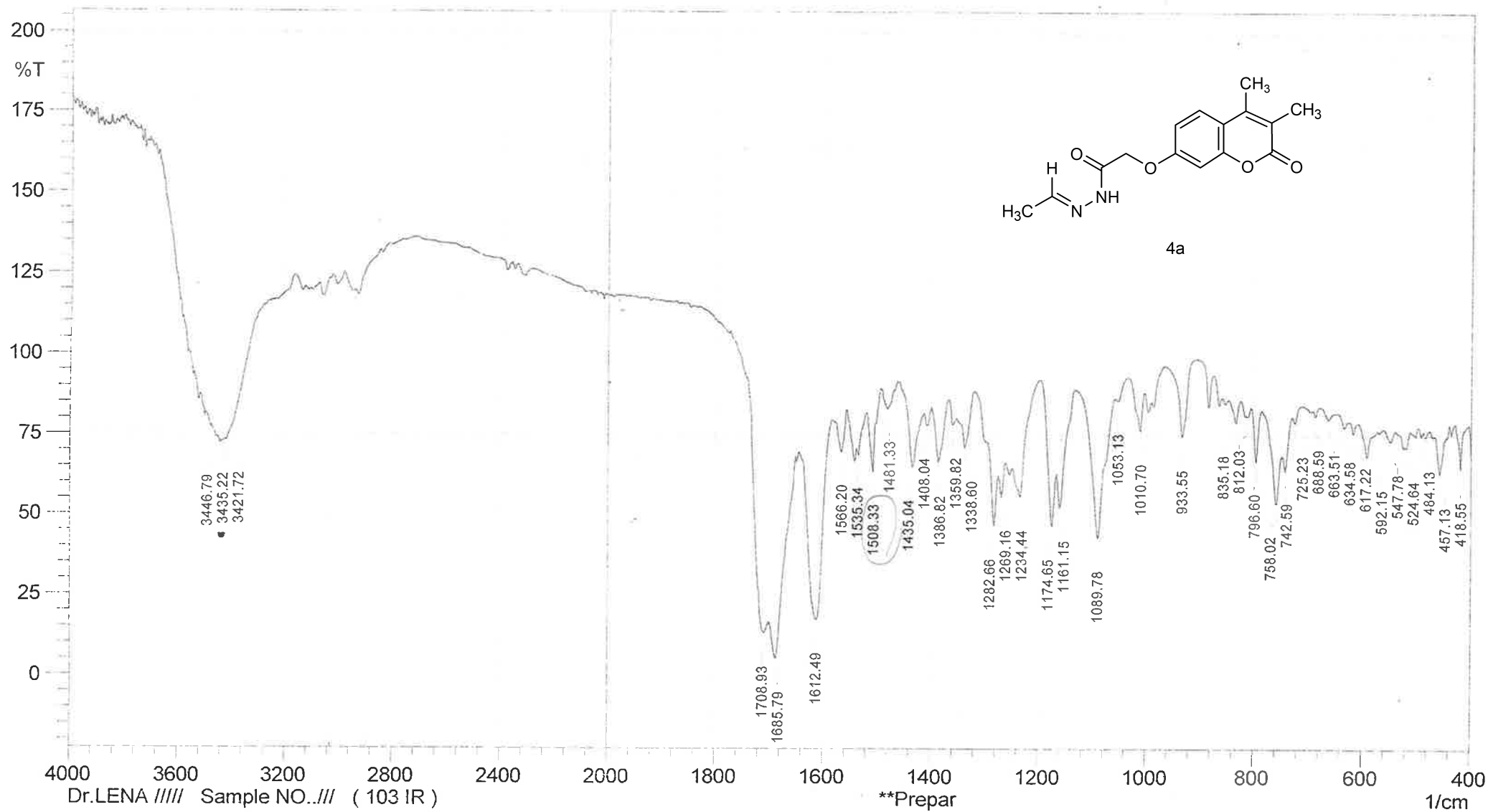




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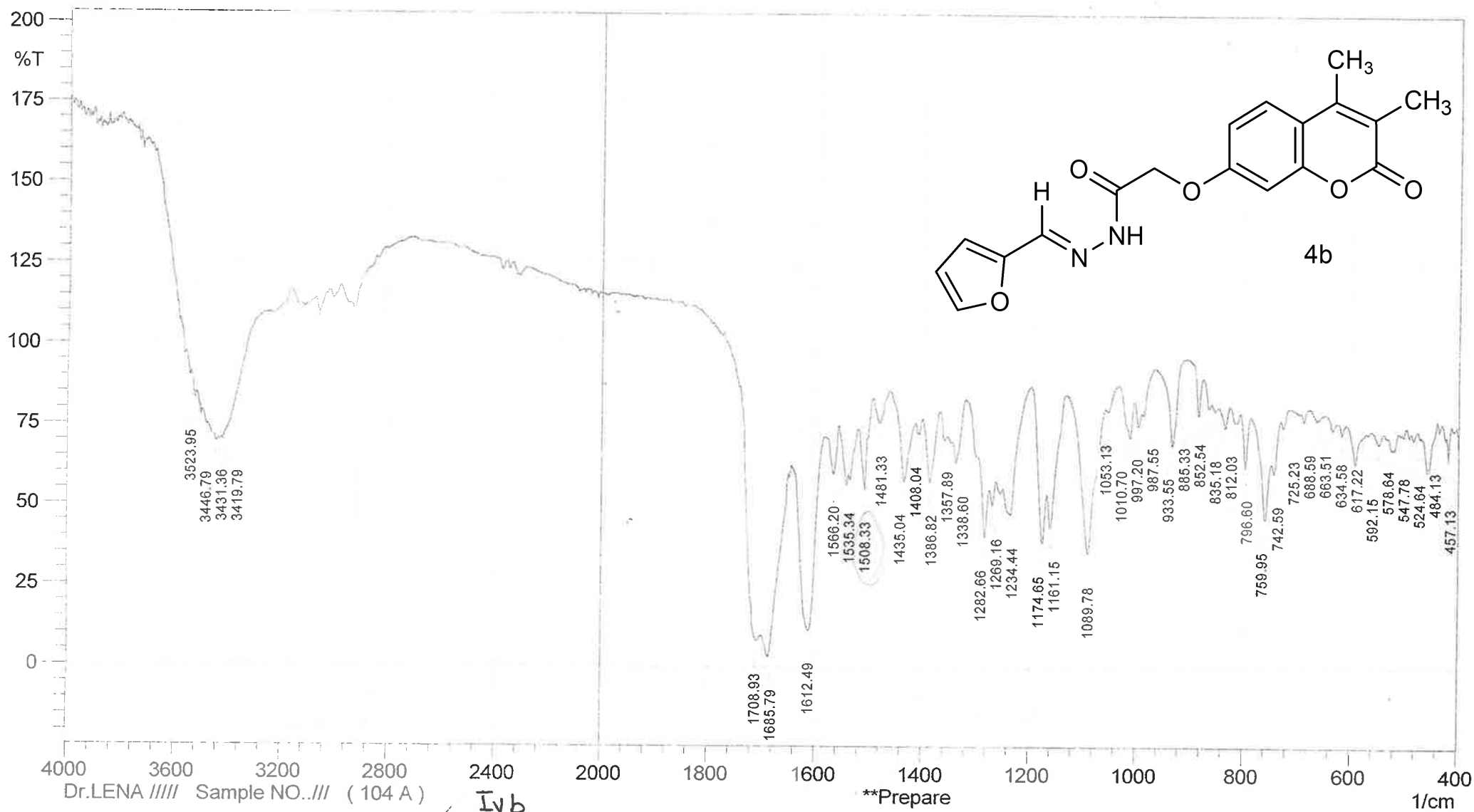


IR Spectra



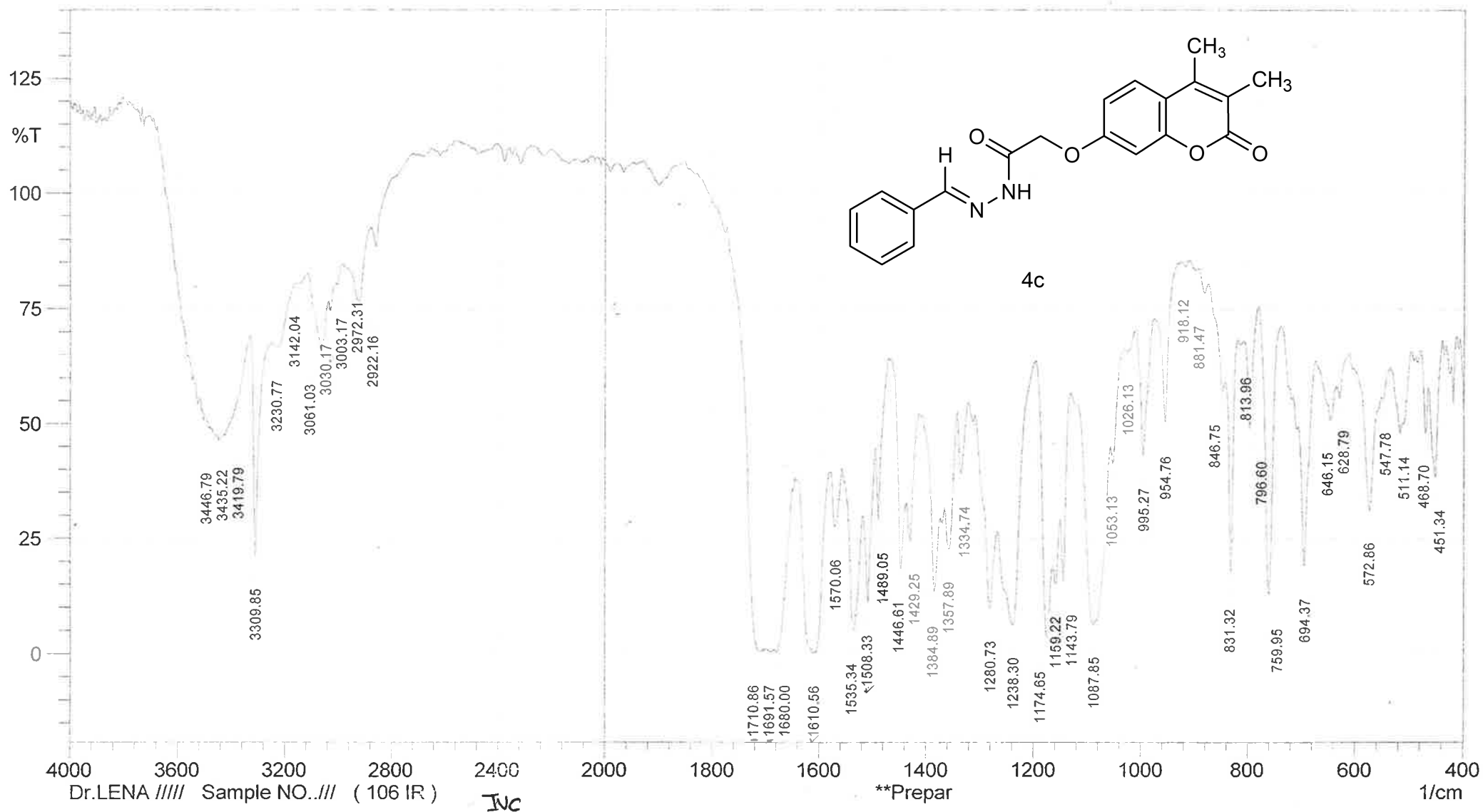
Comment;
Dr.LENA // Sample NO. // (103 IR)
**Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 2:12:07 AM
No. of Scans; 10
Resolution; 4 [1/cm]
Apodization; Happ-Genzel
User; Heinrich



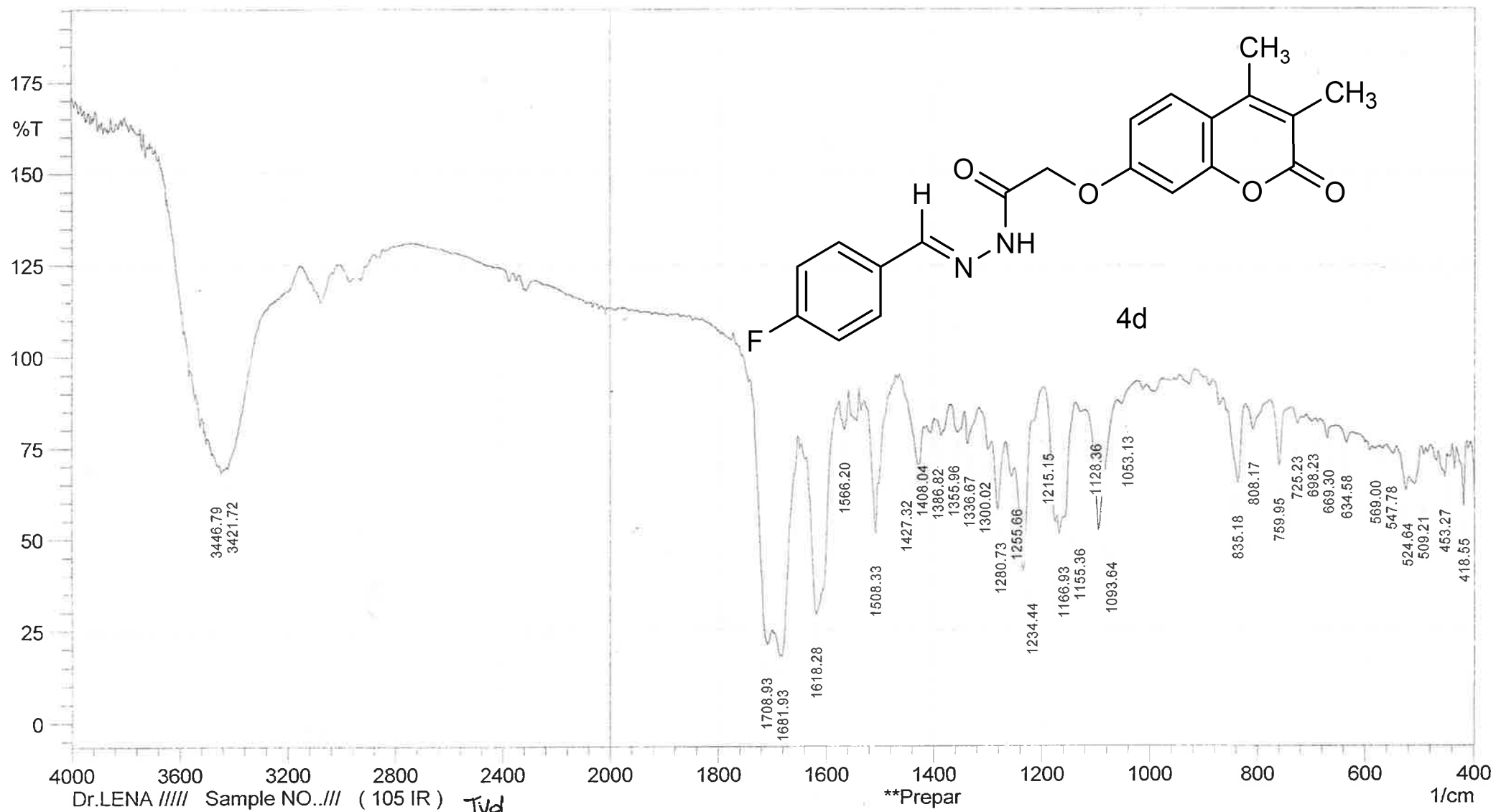
Comment;
 Dr.LENA //// Sample NO.//// (104 A)
 **Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 2:58:26 AM
 No. of Scans; 10
 Resolution; 4 [1/cm]
 Apodization; Happ-Genzel
 User; Heinrich



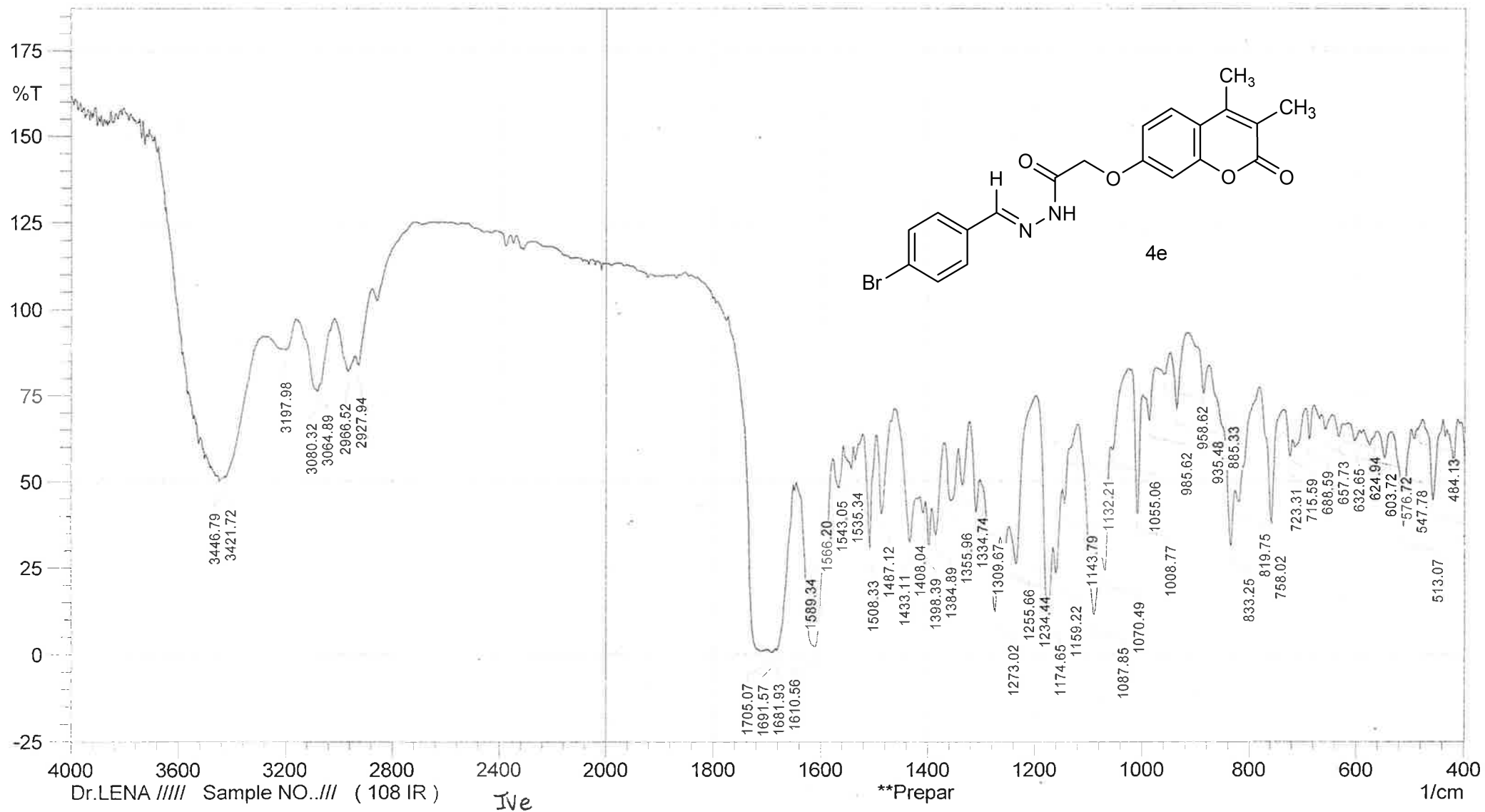
Comment;
 Dr.LENA //// Sample NO.//// (106 IR)
 **Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 4:06:31 AM
 No. of Scans; 10
 Resolution; 4 [1/cm]
 Apodization; Happ-Genzel
 User; Heinrich



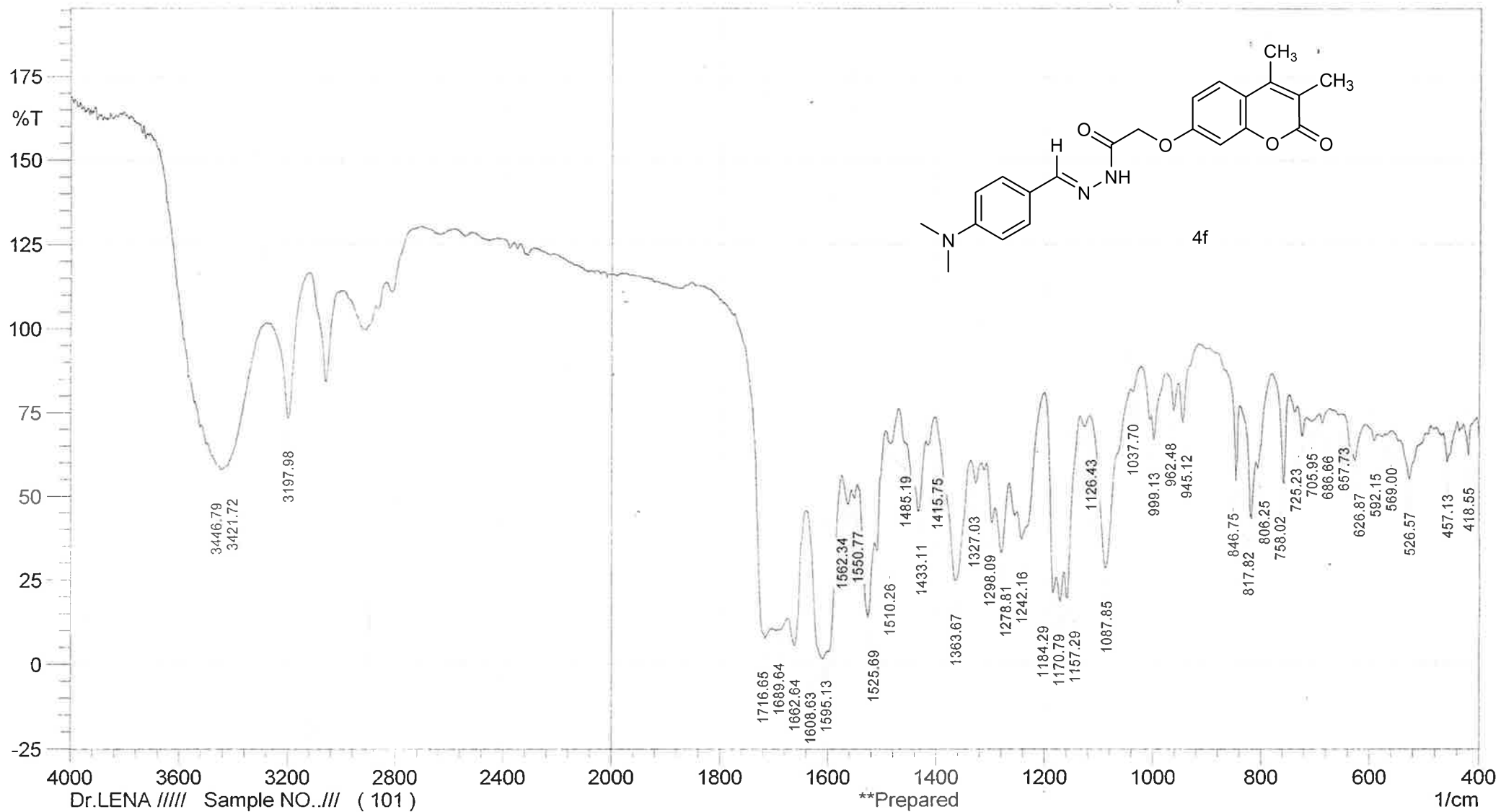
Comment;
 Dr.LENA //// Sample NO.//// (105 IR)
 **Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 3:16:28 AM
 No. of Scans; 10
 Resolution; 4 [1/cm]
 Apodization; Happ-Genzel
 User; Heinrich



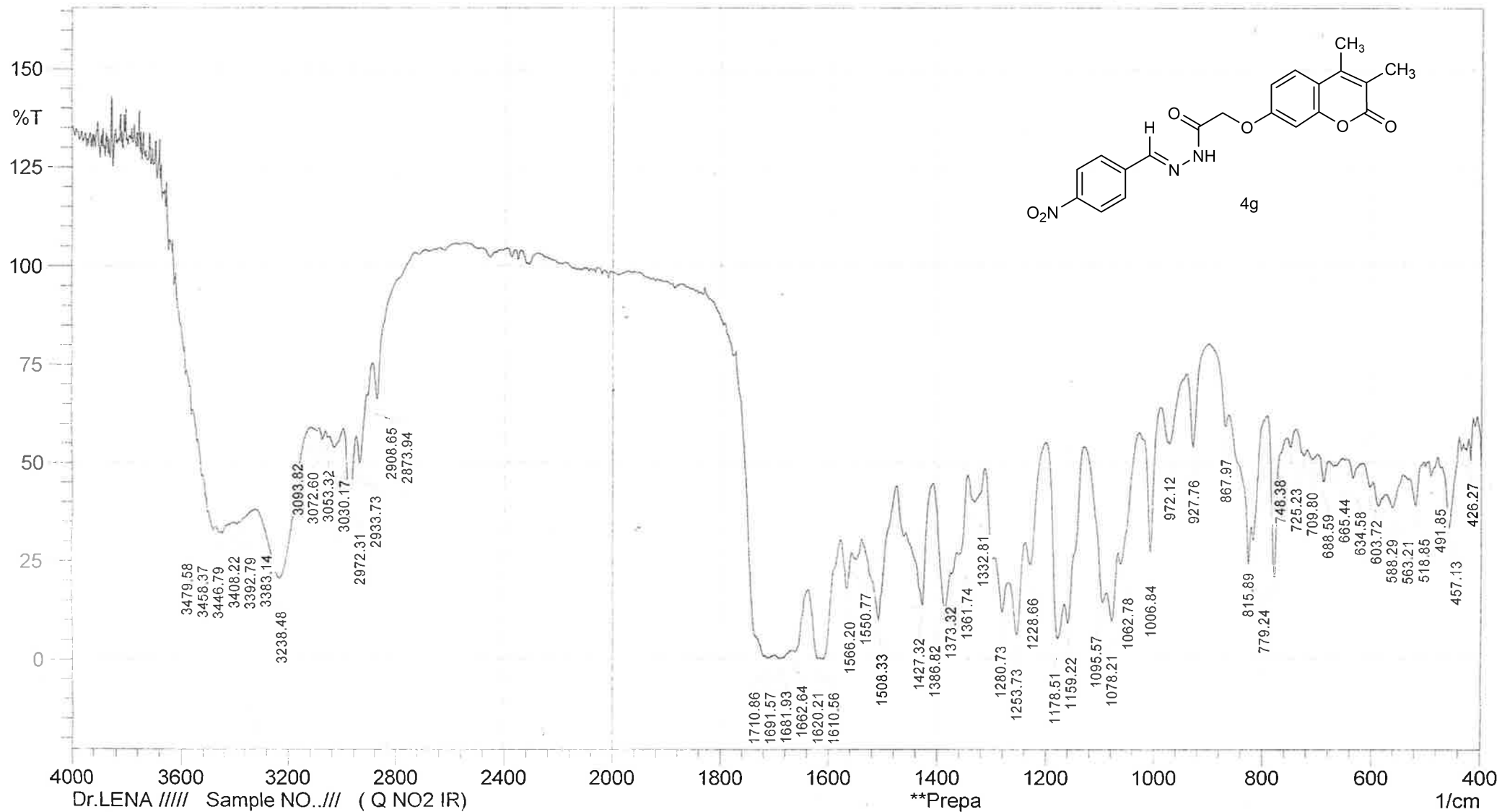
Comment;
 Dr.LENA // Sample NO. // (108 IR)
 **Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 4:48:06 AM
 No. of Scans; 10
 Resolution; 4 [1/cm]
 Apodization; Happ-Genzel
 User; Heinrich



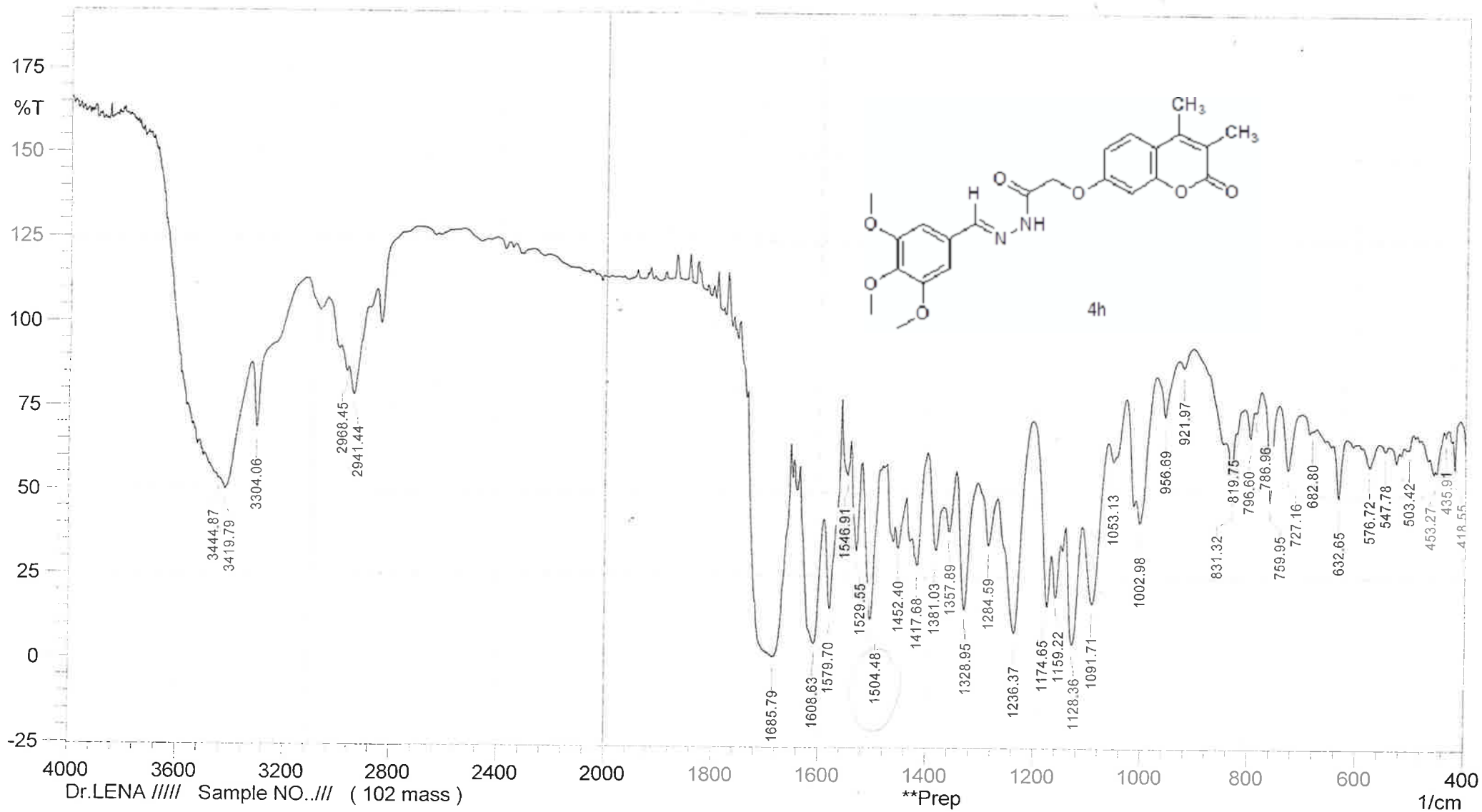
Comment;
 Dr.LENA //// Sample NO./// (101)
 **Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 1:36:20 AM
 No. of Scans; 10
 Resolution; 4 [1/cm]
 Apodization; Happ-Genzel
 User; Heinrich



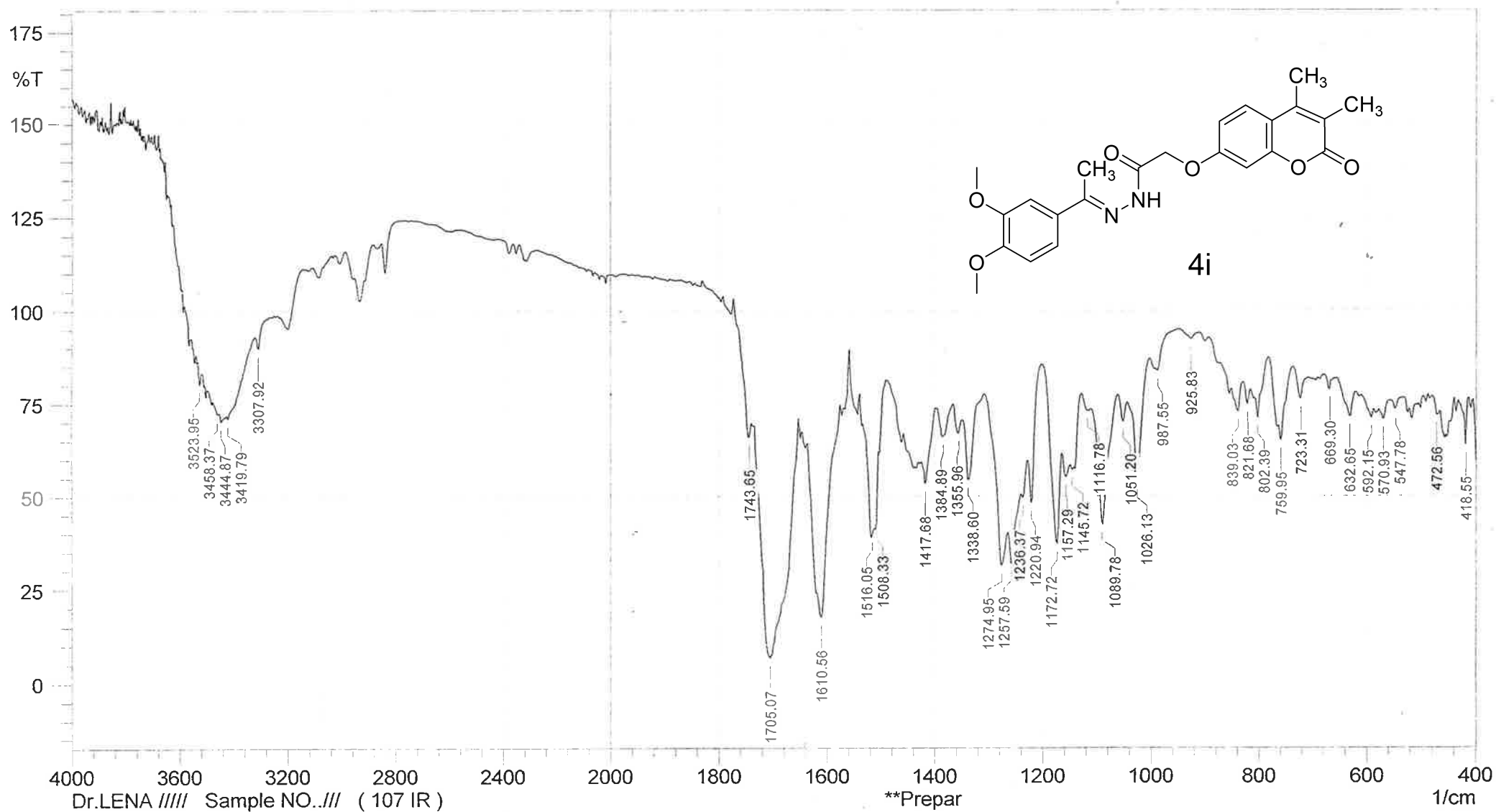
Comment;
 Dr.LENA //// Sample NO.//// (Q NO2 IR)
 **Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 5:45:49 AM
 No. of Scans; 10
 Resolution; 4 [1/cm]
 Apodization; Happ-Genzel
 User; Heinrich



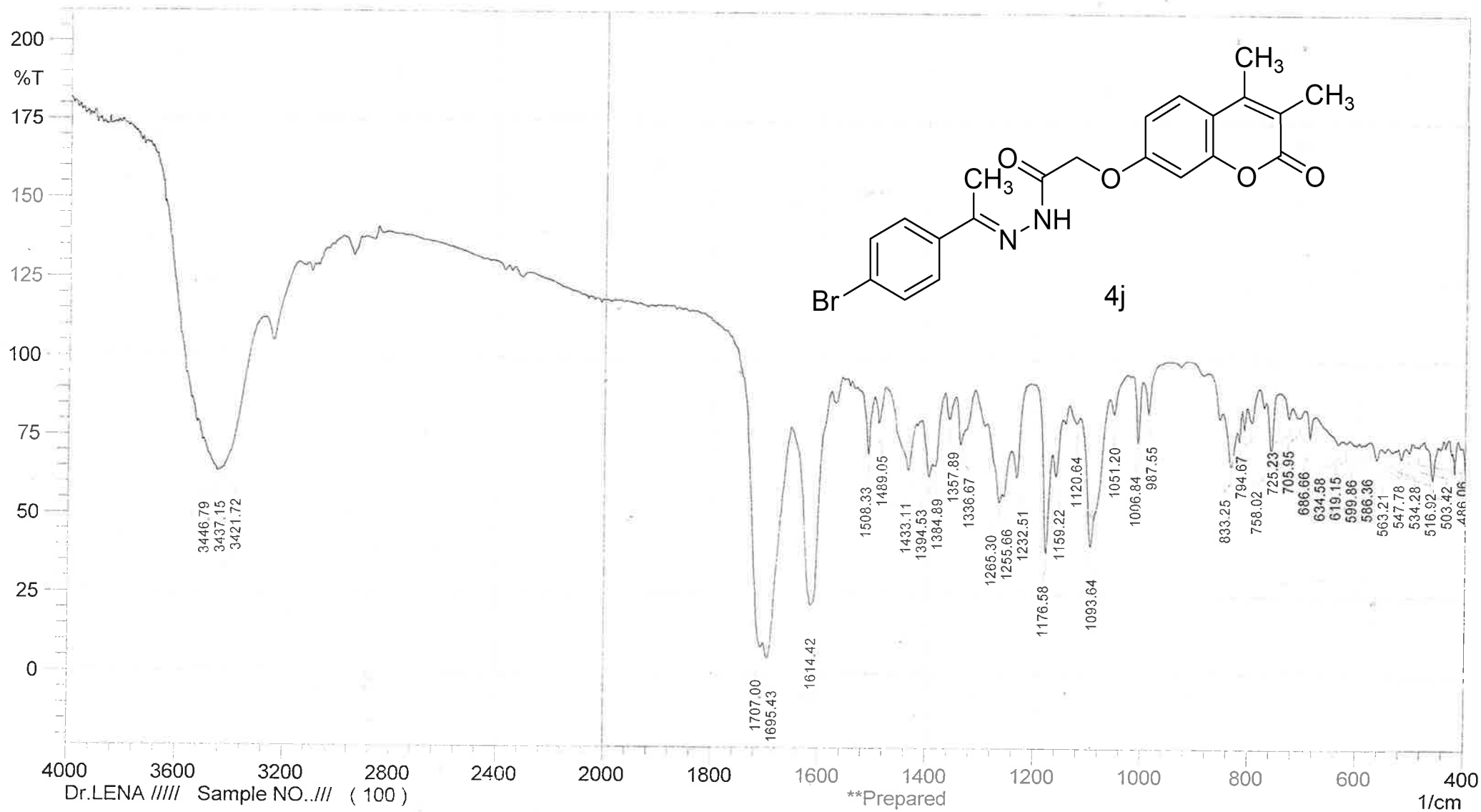
Comment;
 Dr.LENA //// Sample NO./// (102 mass)
 **Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 1:54:28 AM
 No. of Scans; 10
 Resolution; 4 [1/cm]
 Apodization; Happ-Genzel
 User; Heinrich



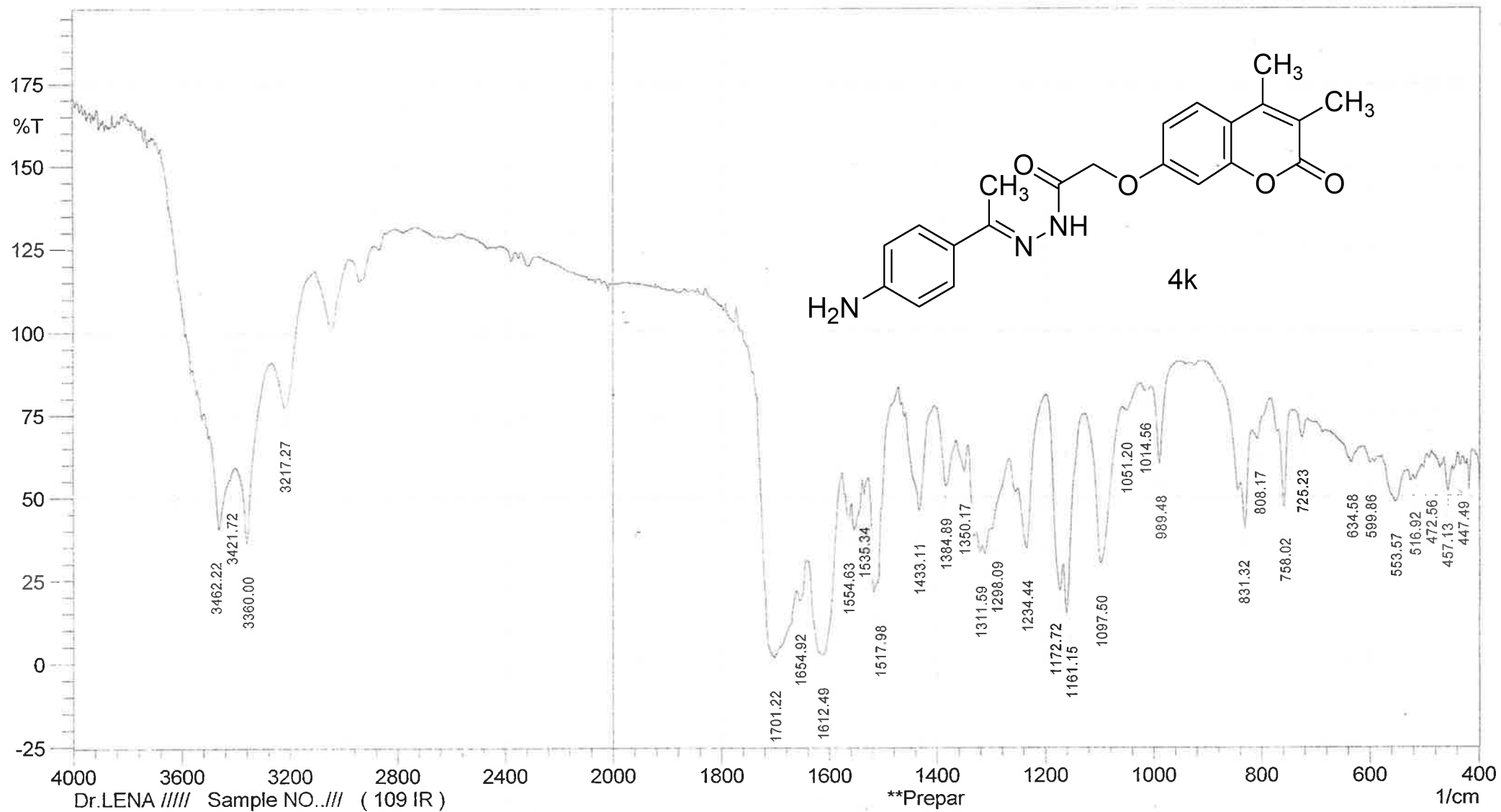
Comment;
 Dr.LENA //// Sample NO.//// (107 IR)
 **Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 4:24:46 AM
 No. of Scans; 10
 Resolution; 4 [1/cm]
 Apodization; Happ-Genzel
 User; Heinrich



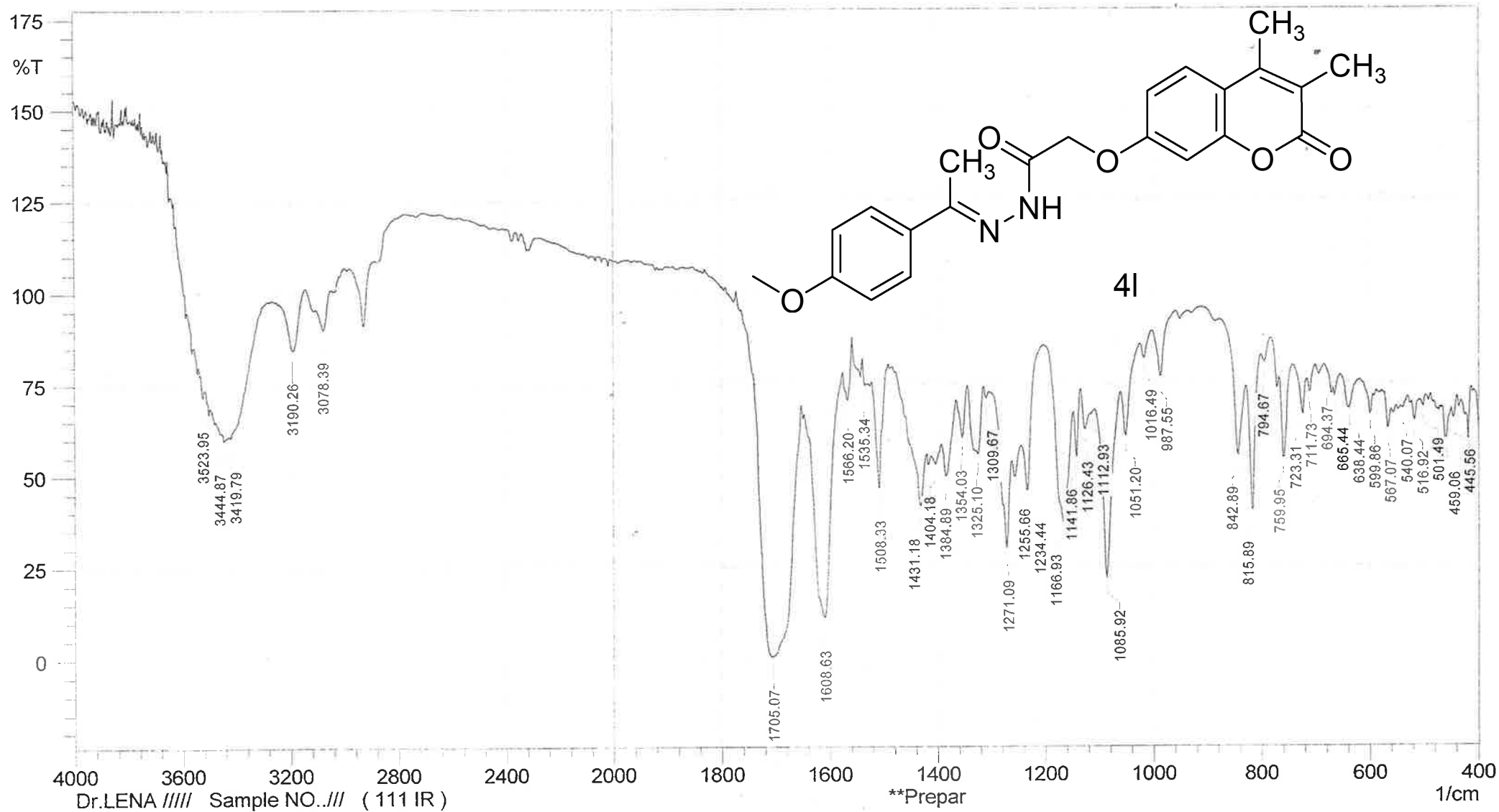
Comment;
 Dr.LENA // Sample NO. // (100)
 **Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 1:17:56 AM
 No. of Scans; 10
 Resolution; 4 [1/cm]
 Apodization; Happ-Genzel
 User; Heinrich



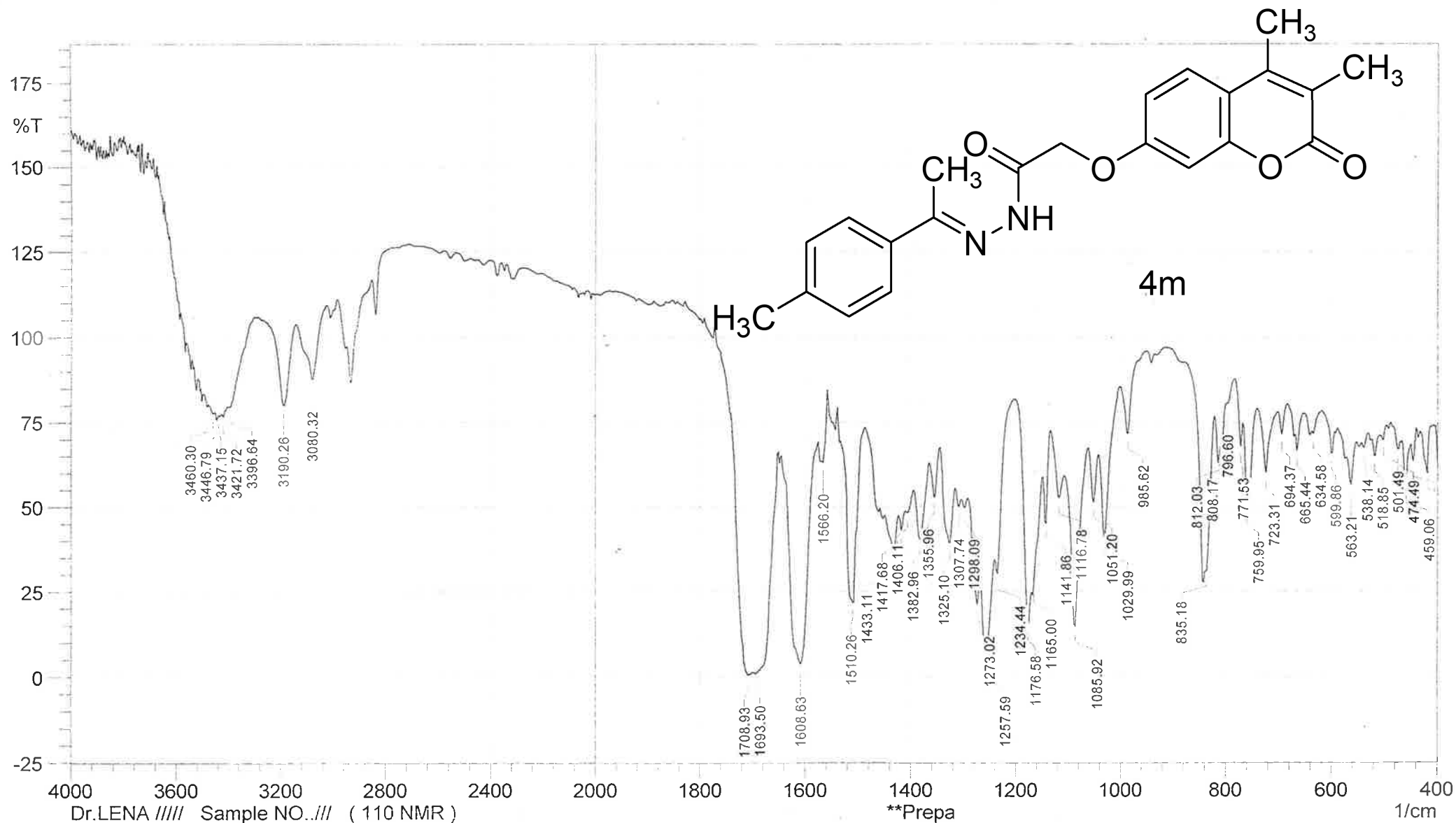
Comment;
 Dr.LENA // Sample NO. // (109 IR)
 **Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 5:06:04 AM
 No. of Scans; 10
 Resolution; 4 [1/cm]
 Apodization; Happ-Genzel
 User; Heinrich



Comment;
 Dr.LENA //// Sample NO.//// (111 IR)
 **Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 5:33:22 AM
 No. of Scans; 10
 Resolution; 4 [1/cm]
 Apodization; Happ-Genzel
 User; Heinrich



Comment;
 Dr.LENA //// Sample NO.//// (110 NMR)
 **Prepared By : Dr.Ahmed A.EL-Wakeel , Ph.D.

Date/Time; 4/30/2010 5:20:10 AM
 No. of Scans; 10
 Resolution; 4 [1/cm]
 Apodization; Happ-Genzel
 User; Heinrich