

Supplementary Material

Synthesis of new bis-heterocyclic hybrids linked by *iso*-propanol unit via Hantzsch, Michael, and Biginelli reactions

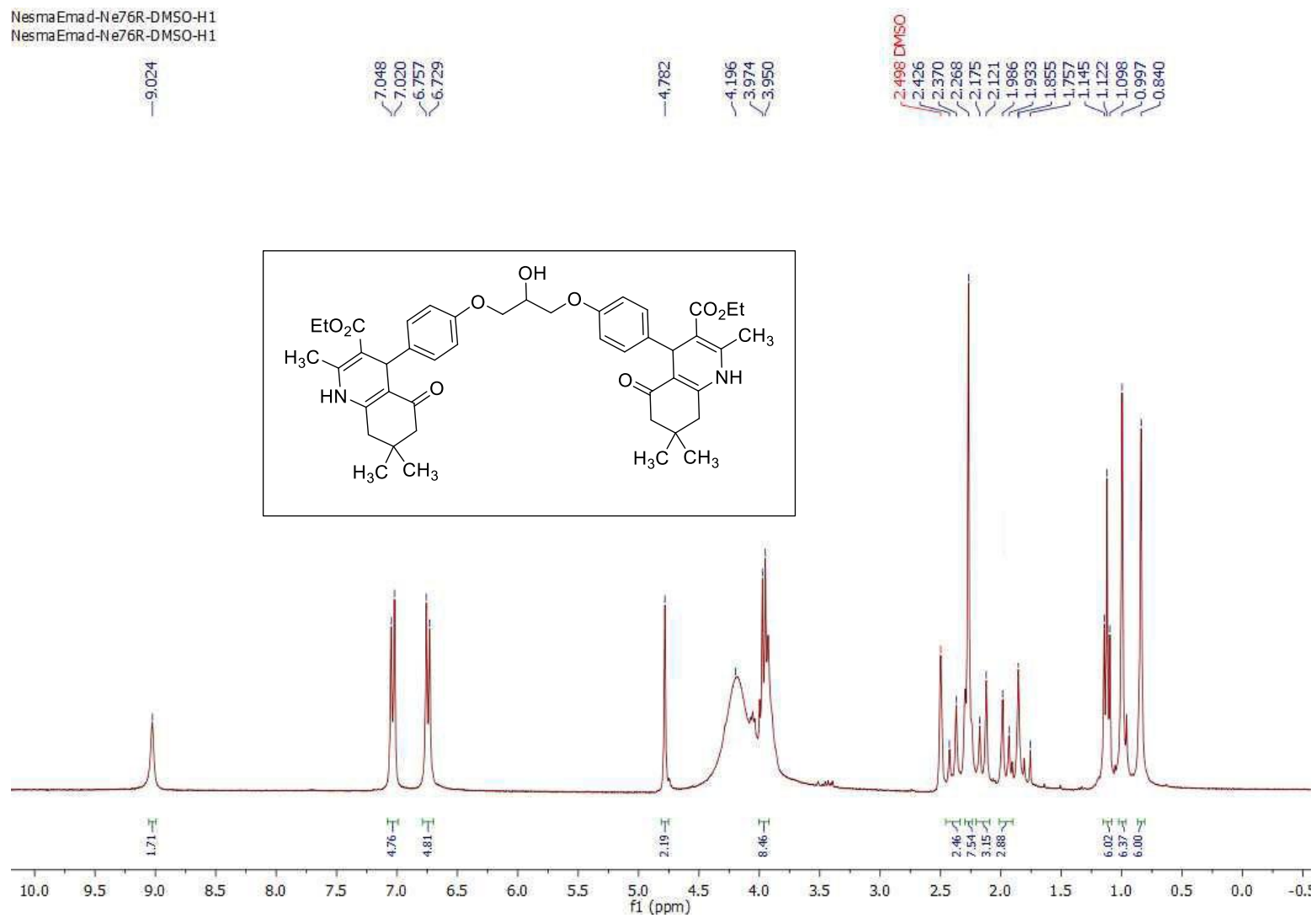
Hadeer M. Diab, Nesma E. Mahmoud, Ismail A. Abdelhamid,*Ahmed H. M. Elwahy,* and Ibrahim M. Z. Fares

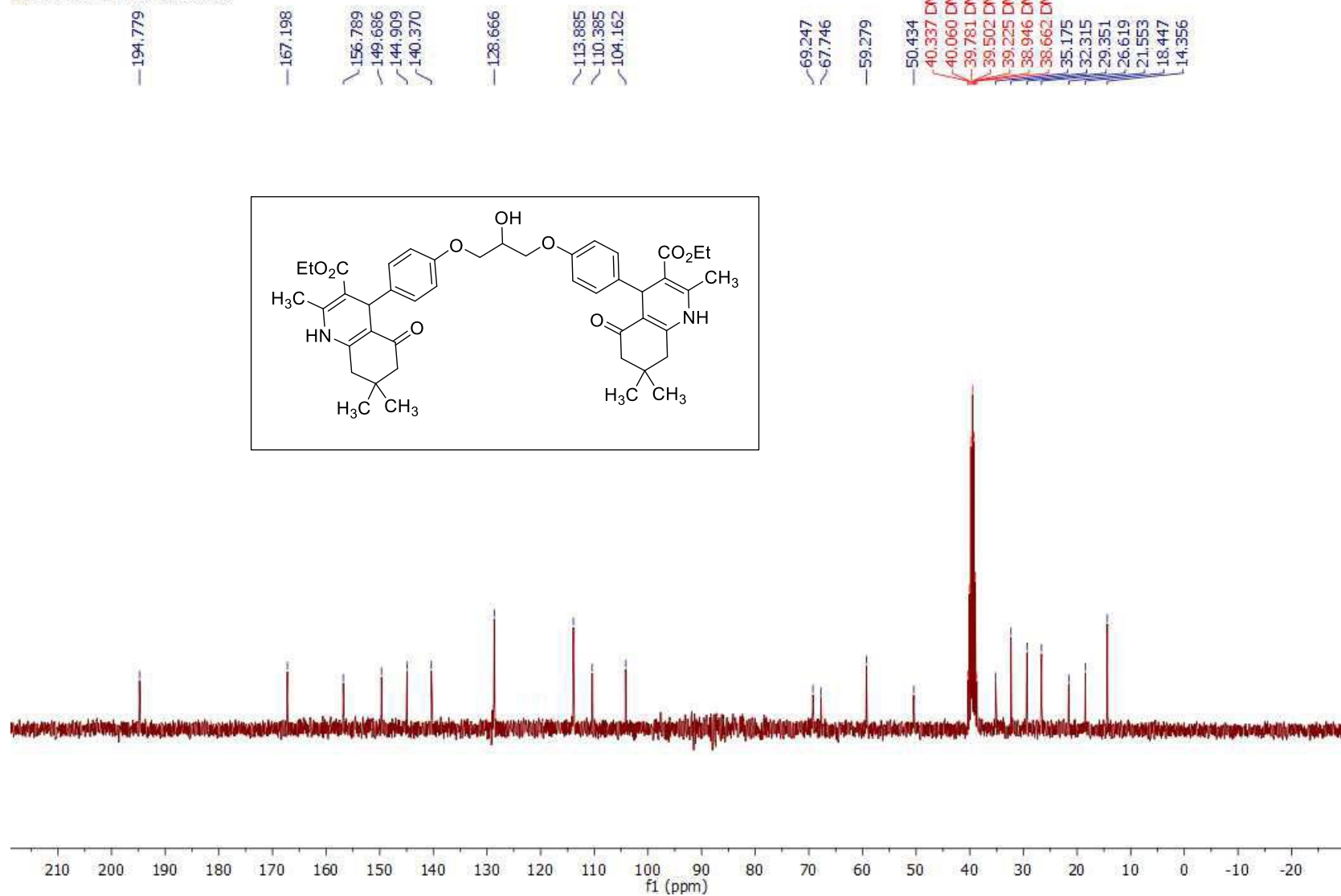
Chemistry Department, Faculty of Science, Cairo University, Giza, Egypt

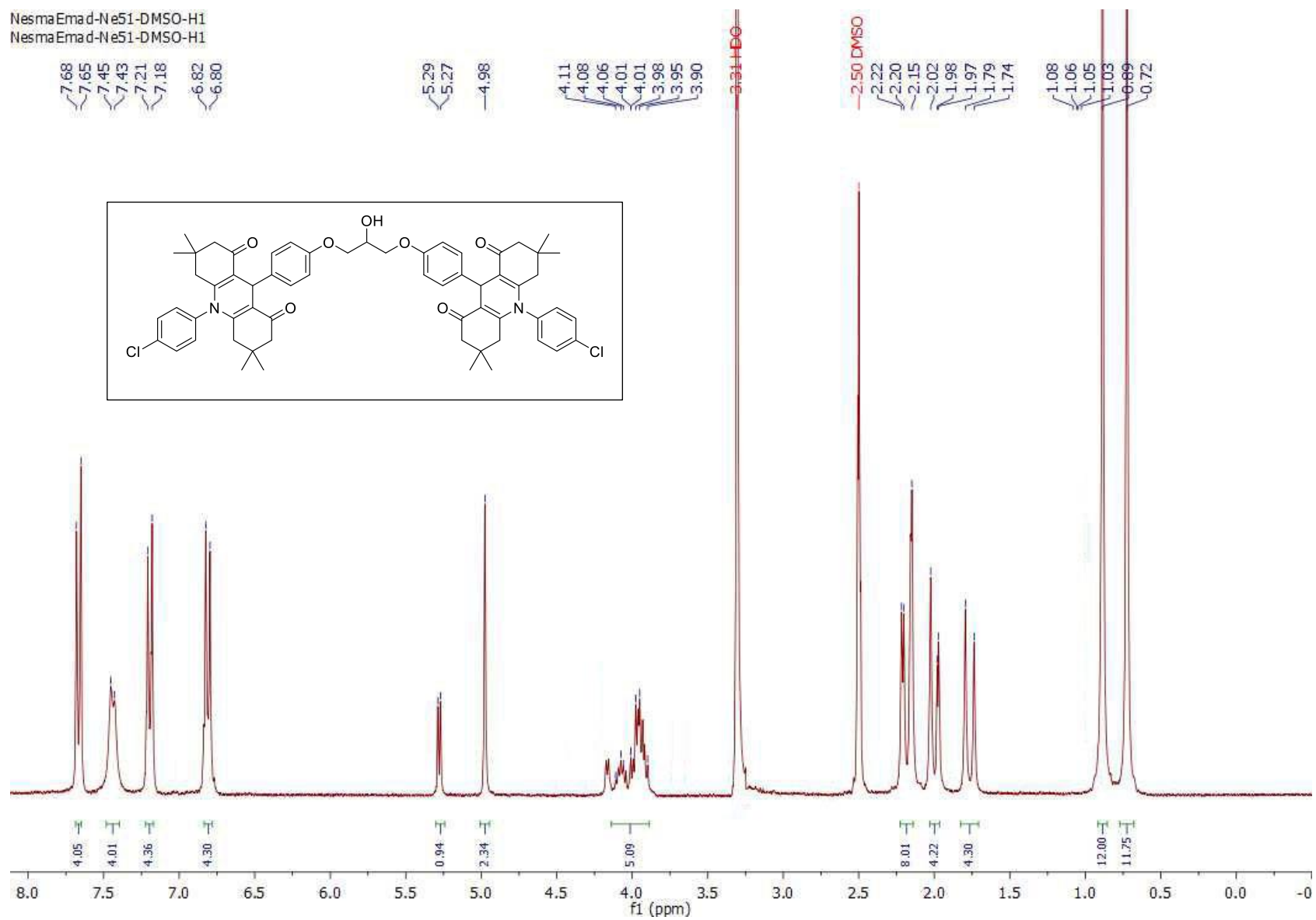
Email: ismail_shafy@yahoo.com; ismail_shafy@cu.edu.eg; aelwahy@hotmail.com; aelwahy@cu.edu.eg

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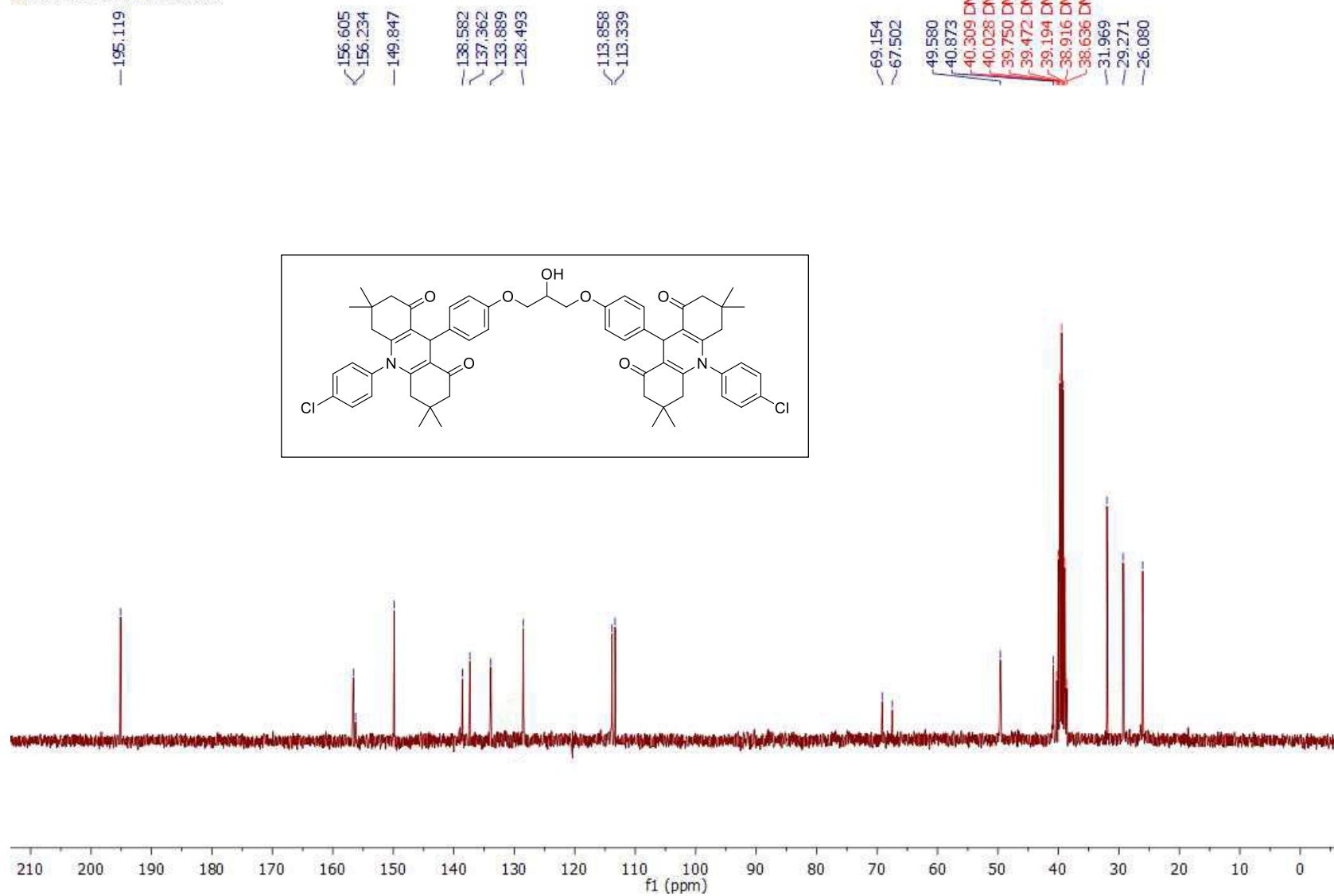
¹ H and ¹³ C NMR spectra of compounds.....	S2
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Nesma Ema d-N e76R-DMSO-H1
Nesma Ema d-N e76R-DMSO-H1¹H NMR spectrum of 6

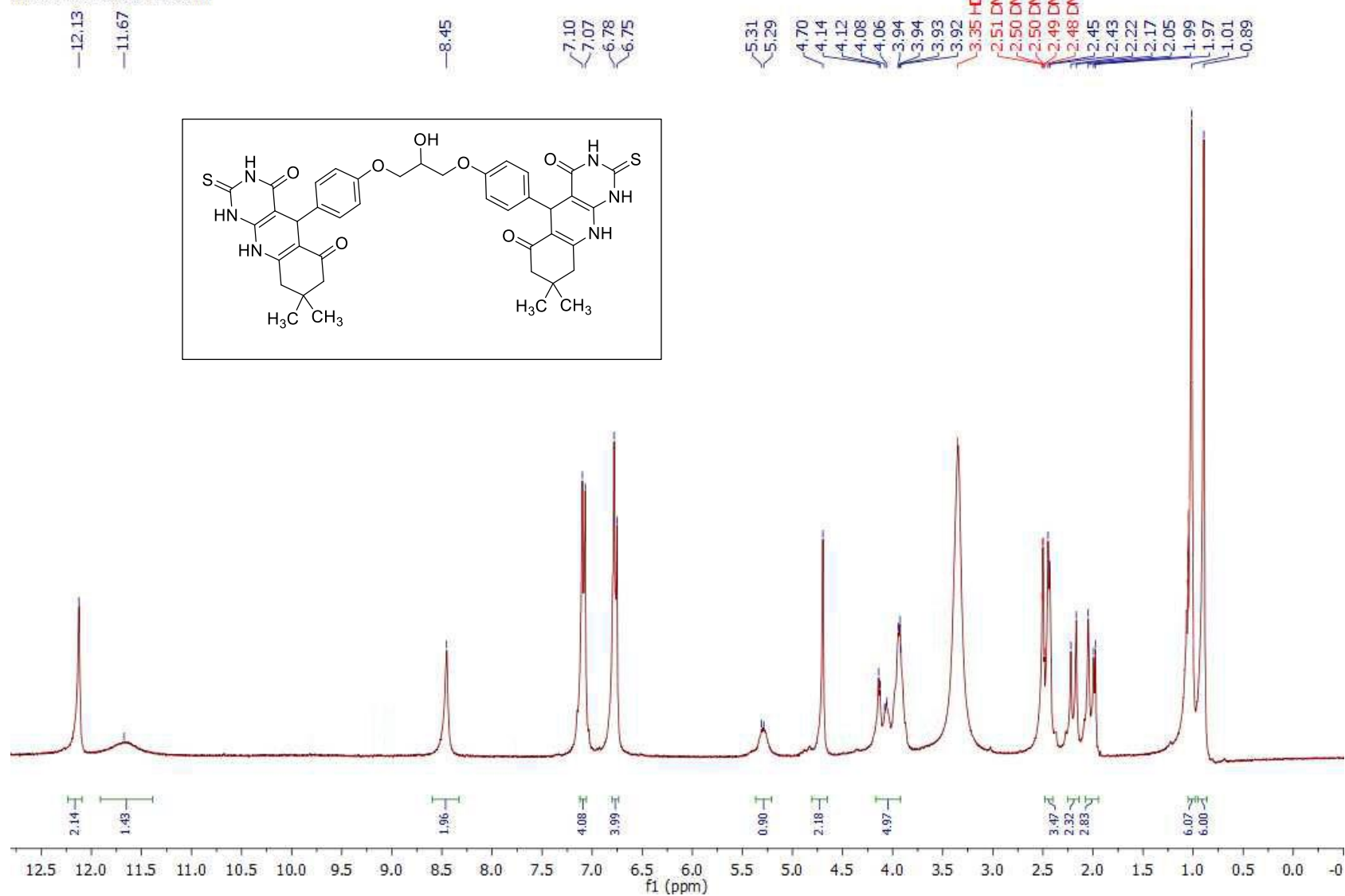
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Nesma Ema d-Ne-76e-DMSO-C13¹³C NMR spectrum of 6

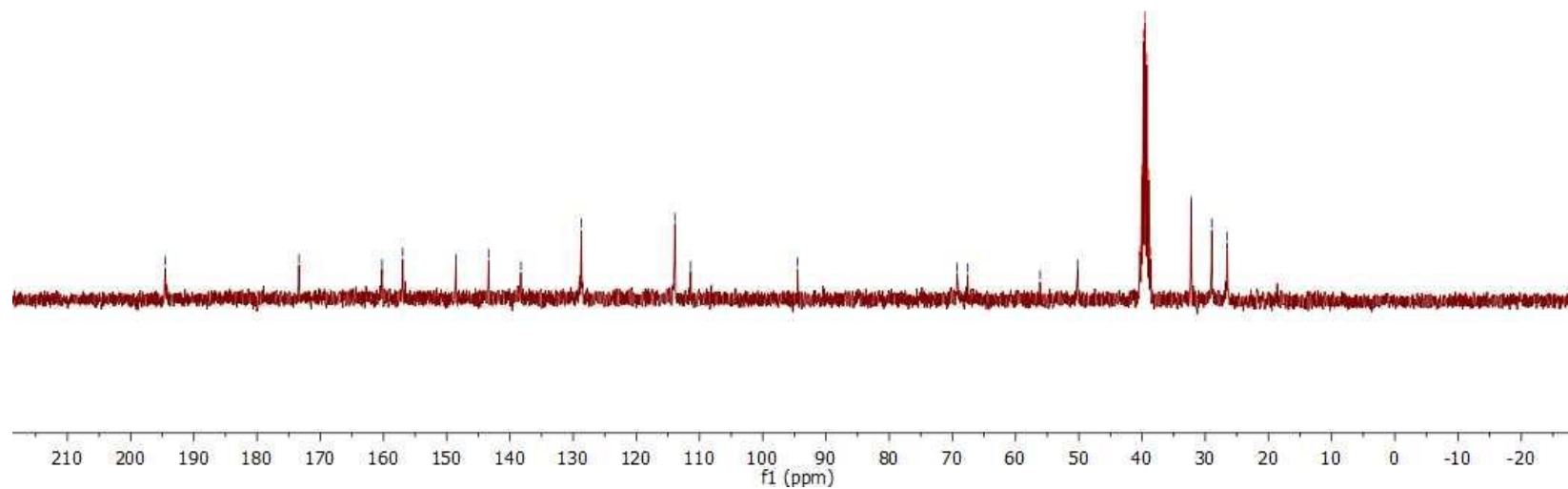
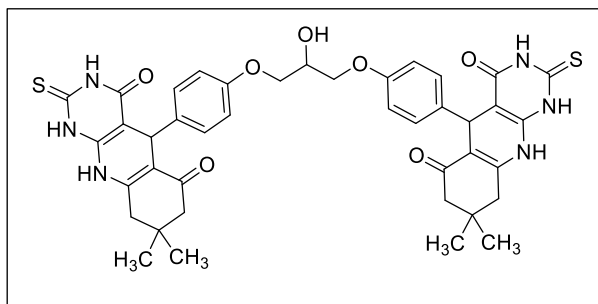
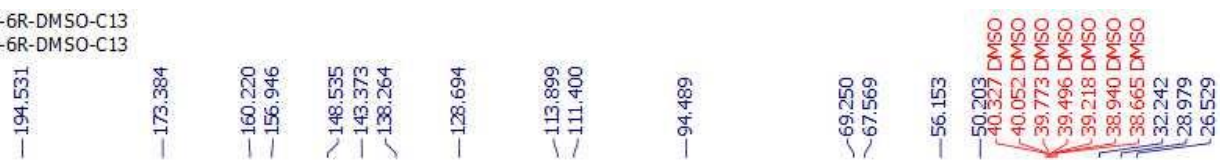
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Nesma Emad-Ne51-DMSO-H1¹H NMR spectrum of 8

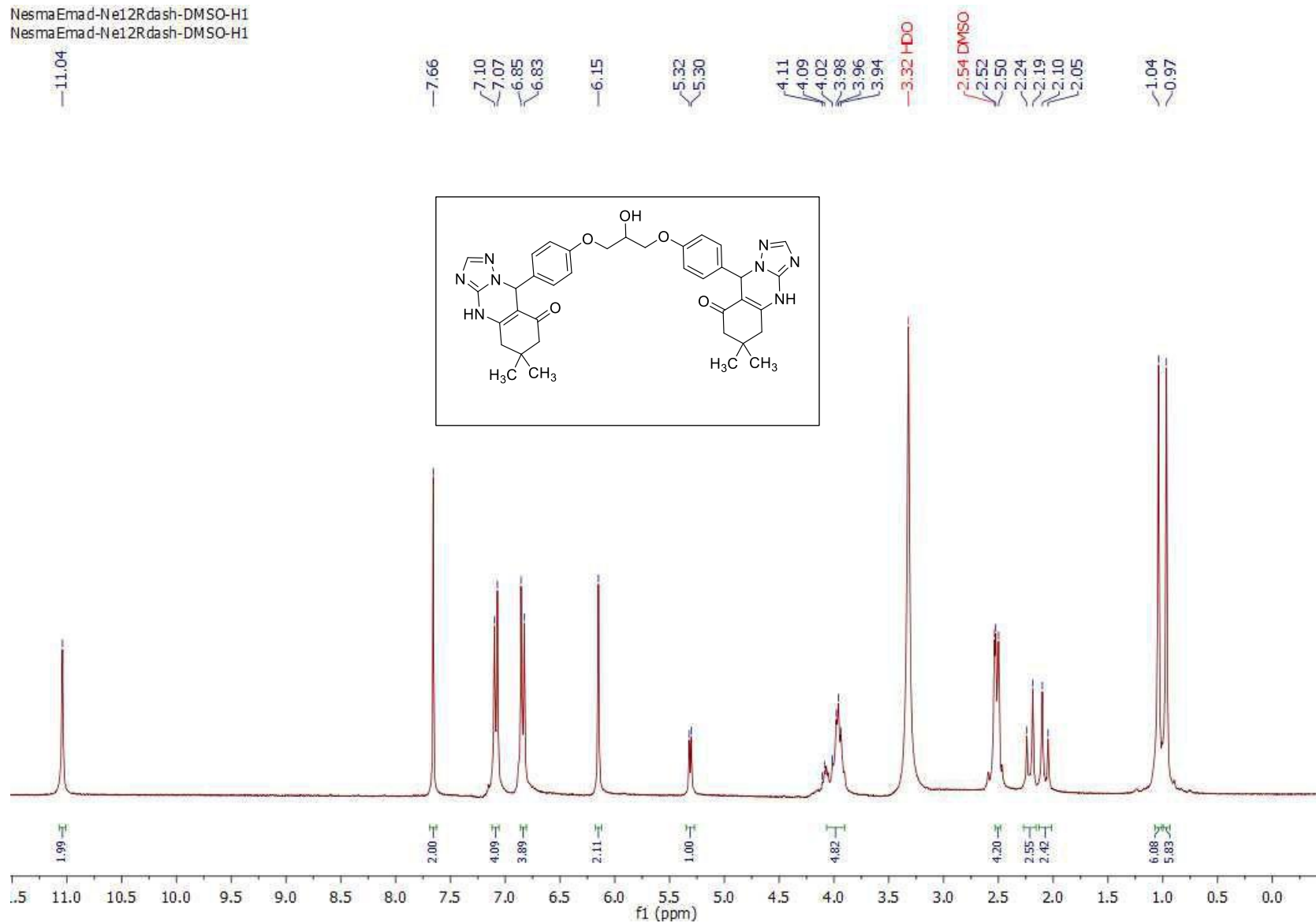
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Nesma Emad-NE51-DMSO-C13

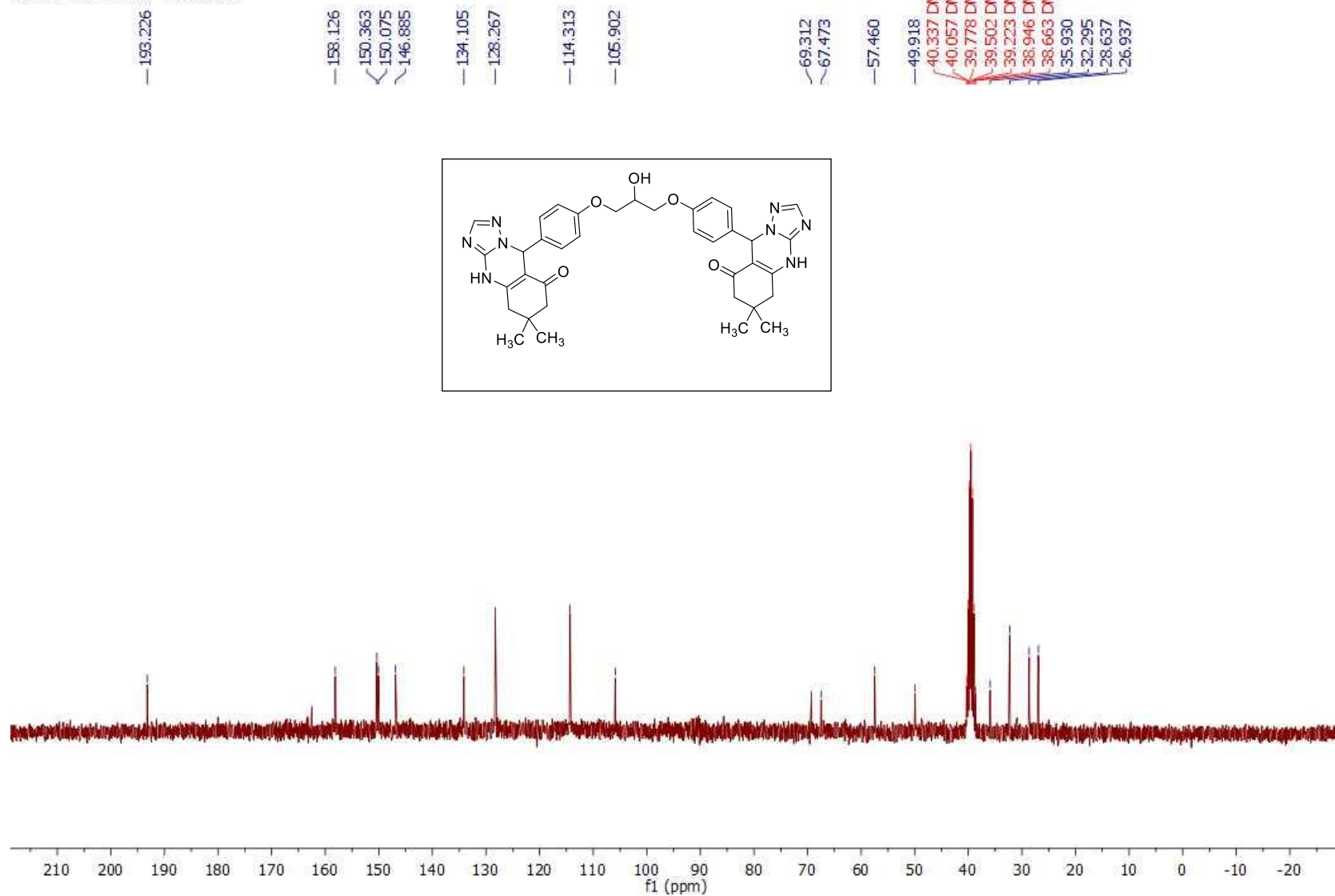


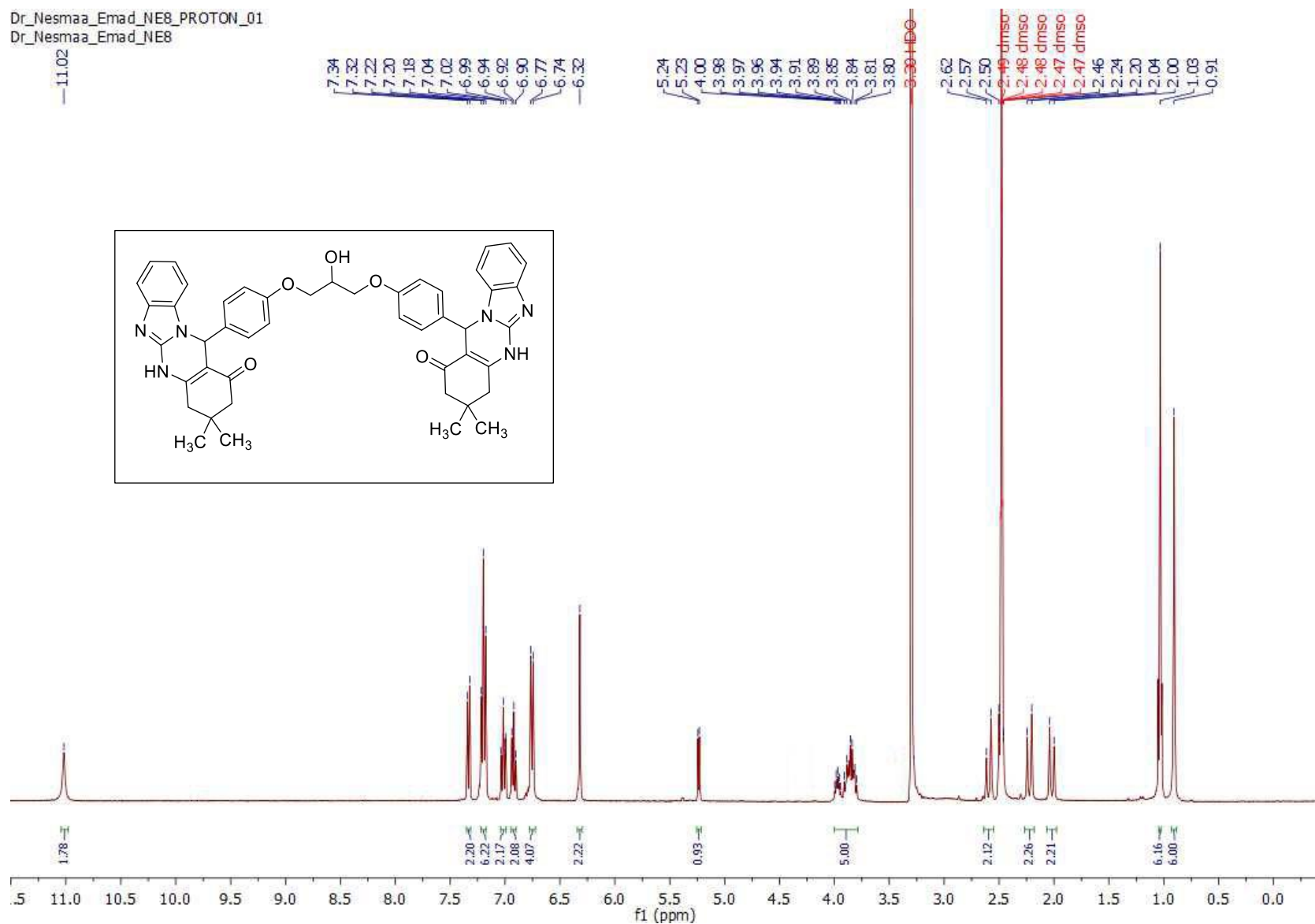
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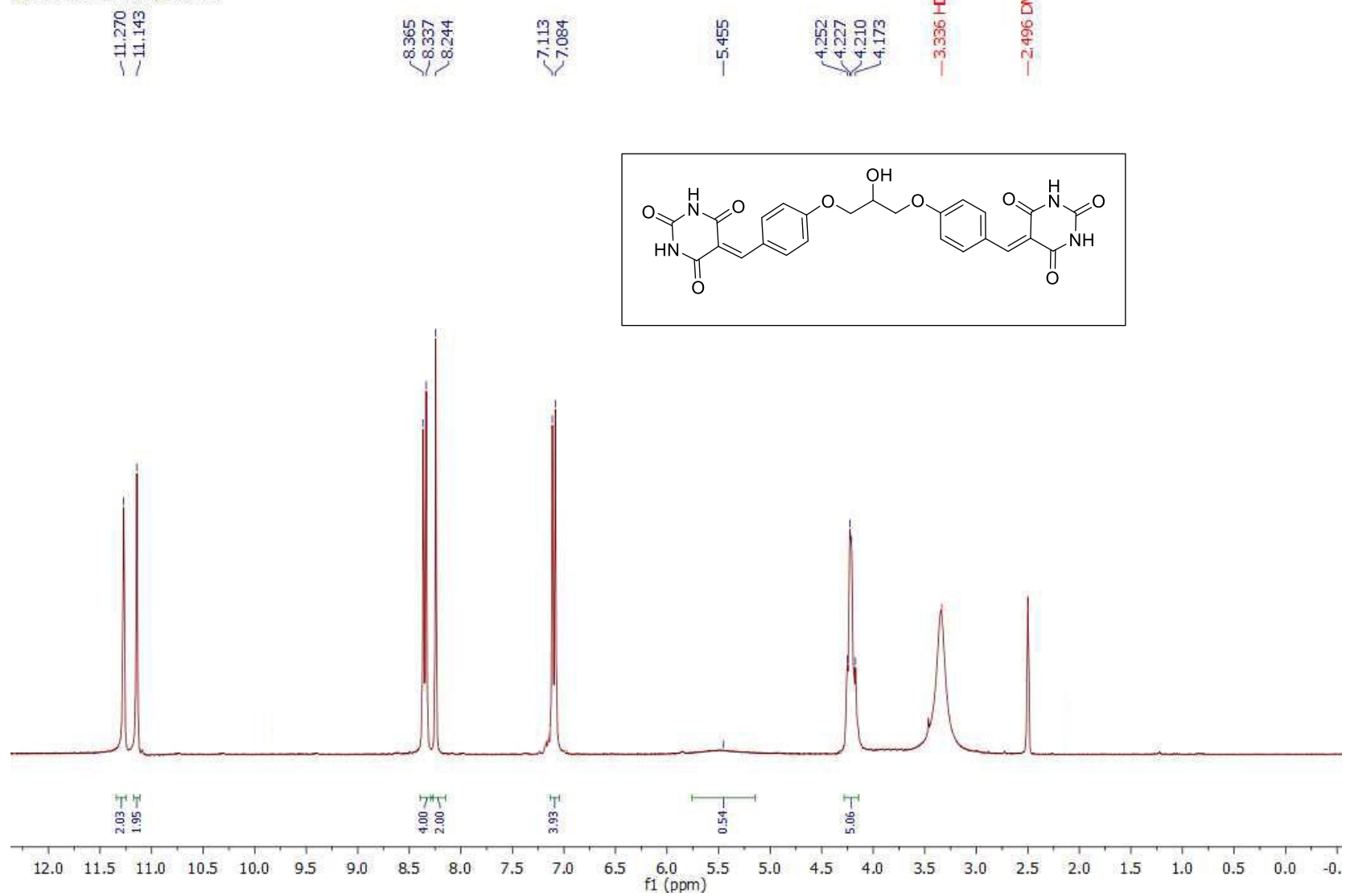
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NesmaEmad-Ne6R-DMSO-H1¹H NMR spectrum of 10

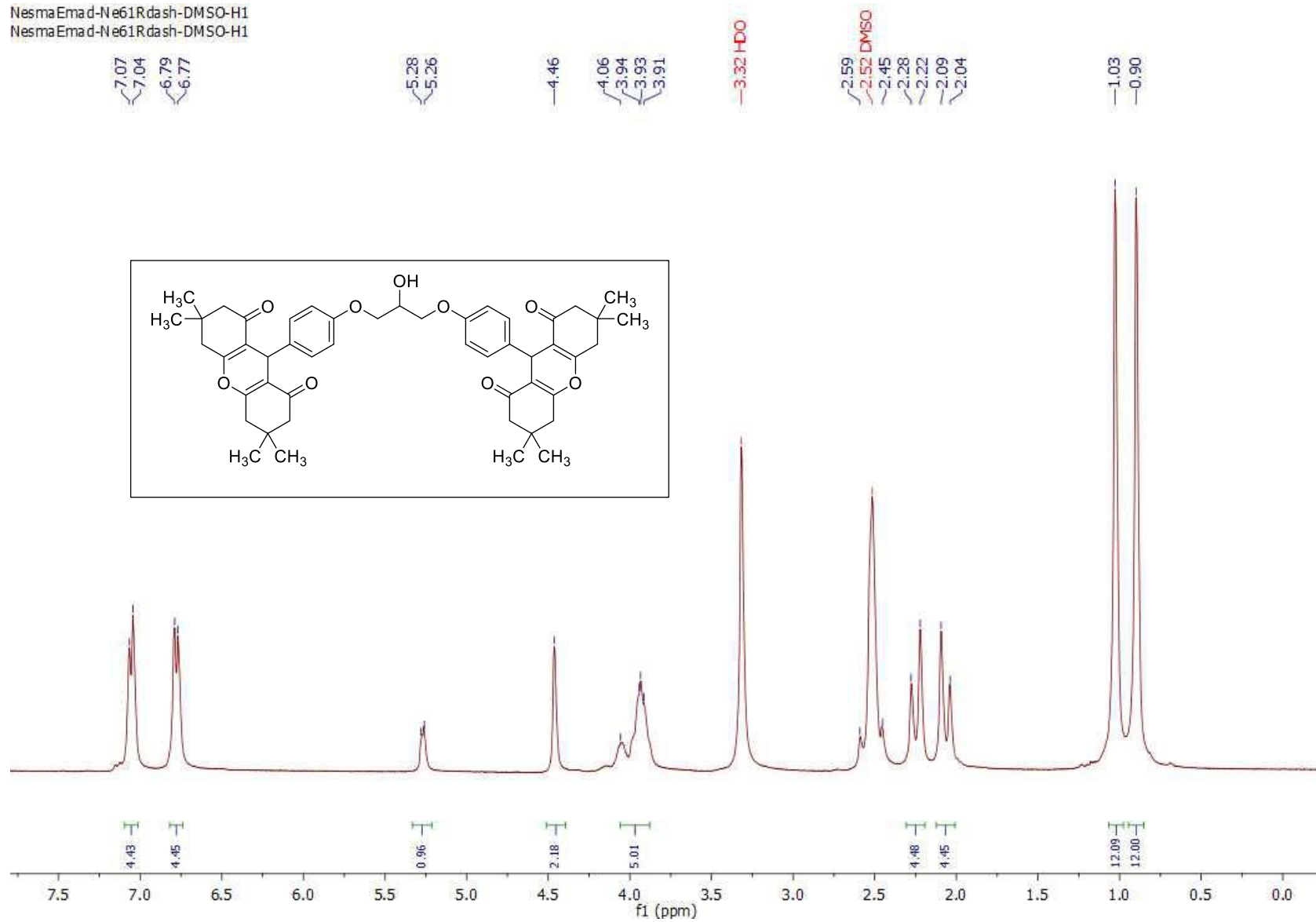
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Nesma Ema d-Ne-6R-DMSO-C13¹³C NMR spectrum of 10

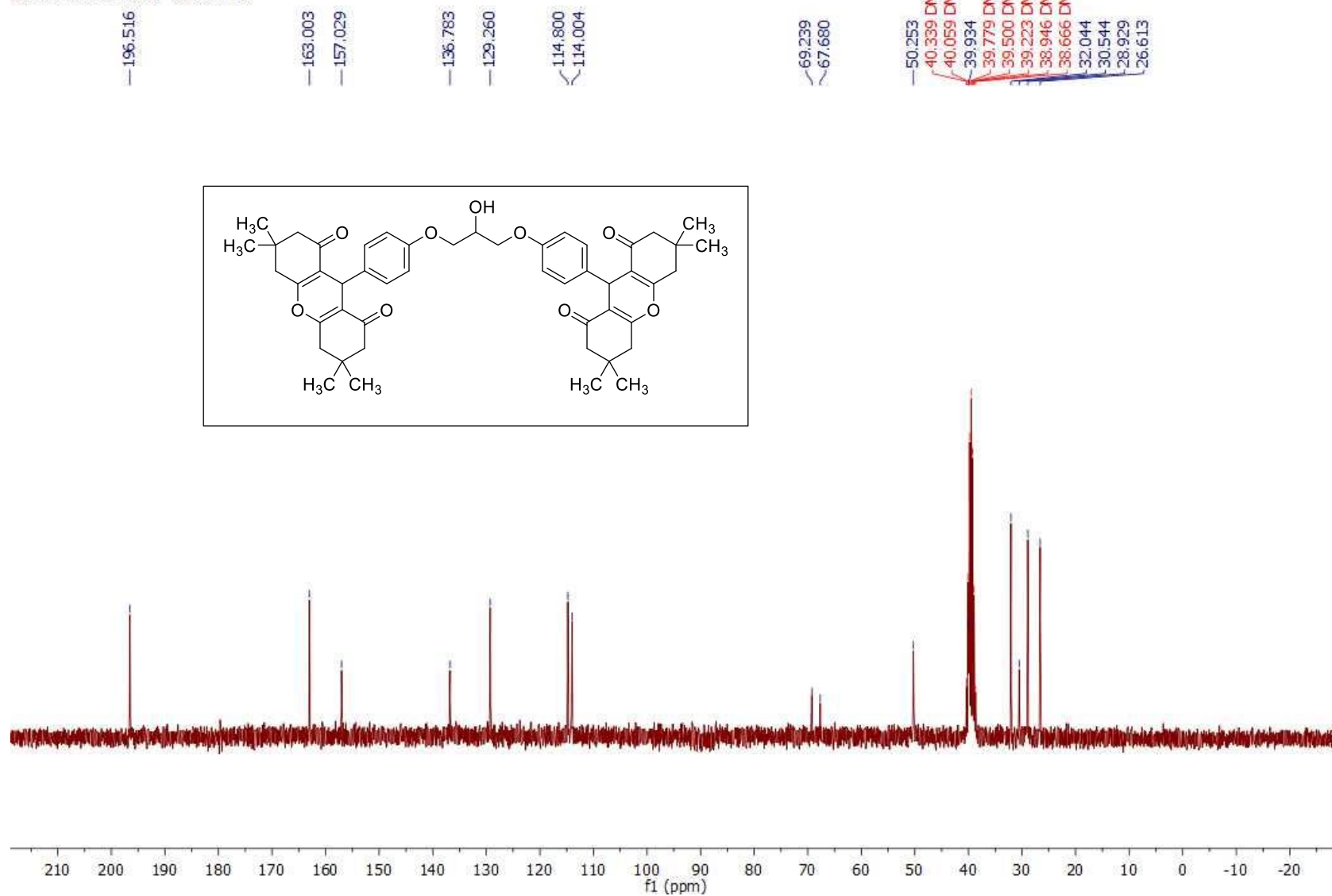
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NesmaEmad-Ne12Rdash-DMSO-H1¹H NMR spectrum of 12

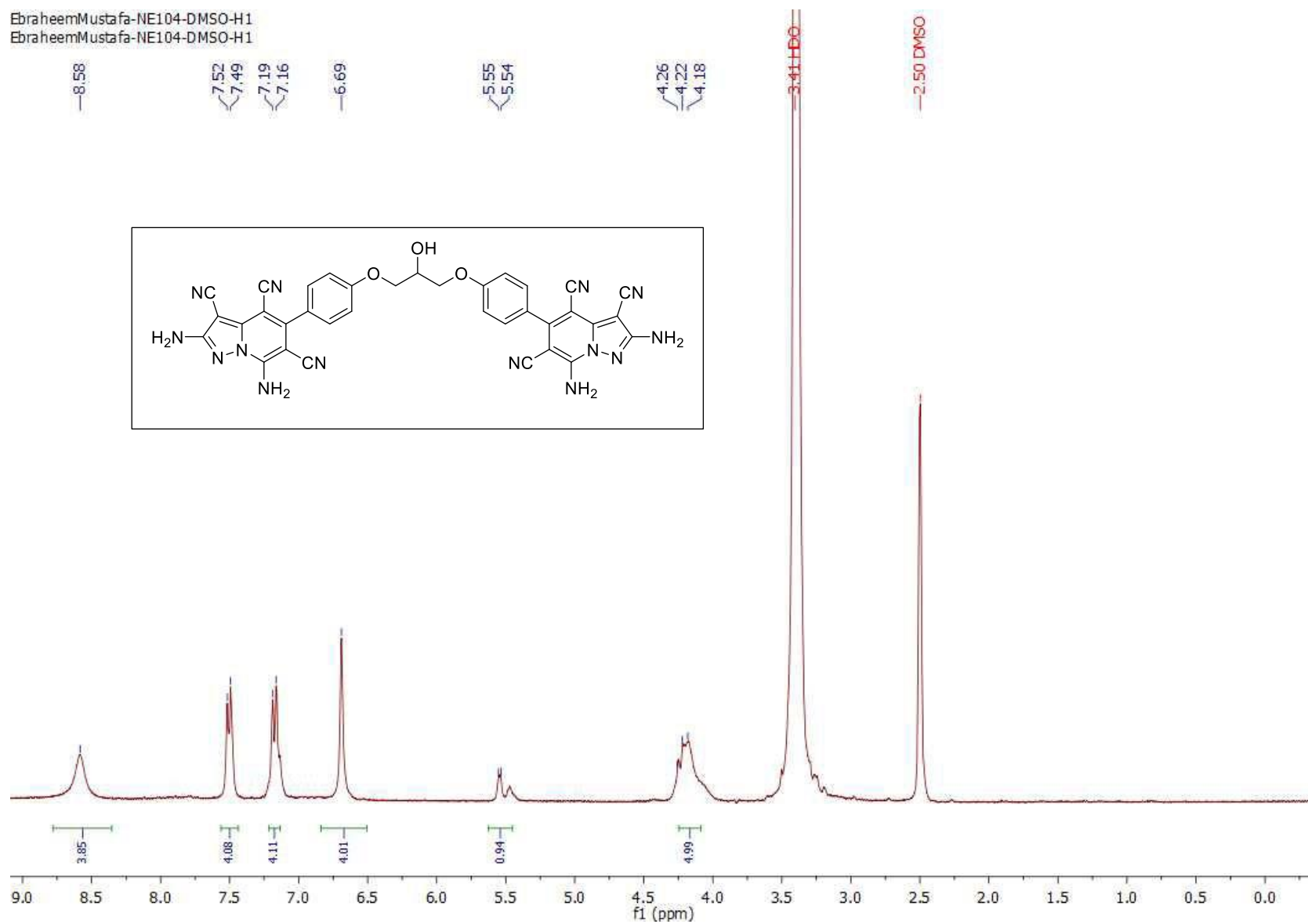
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Nesma Emad-Ne-12R--DMSO-C13¹³C NMR spectrum of 12

¹H NMR spectrum of 15

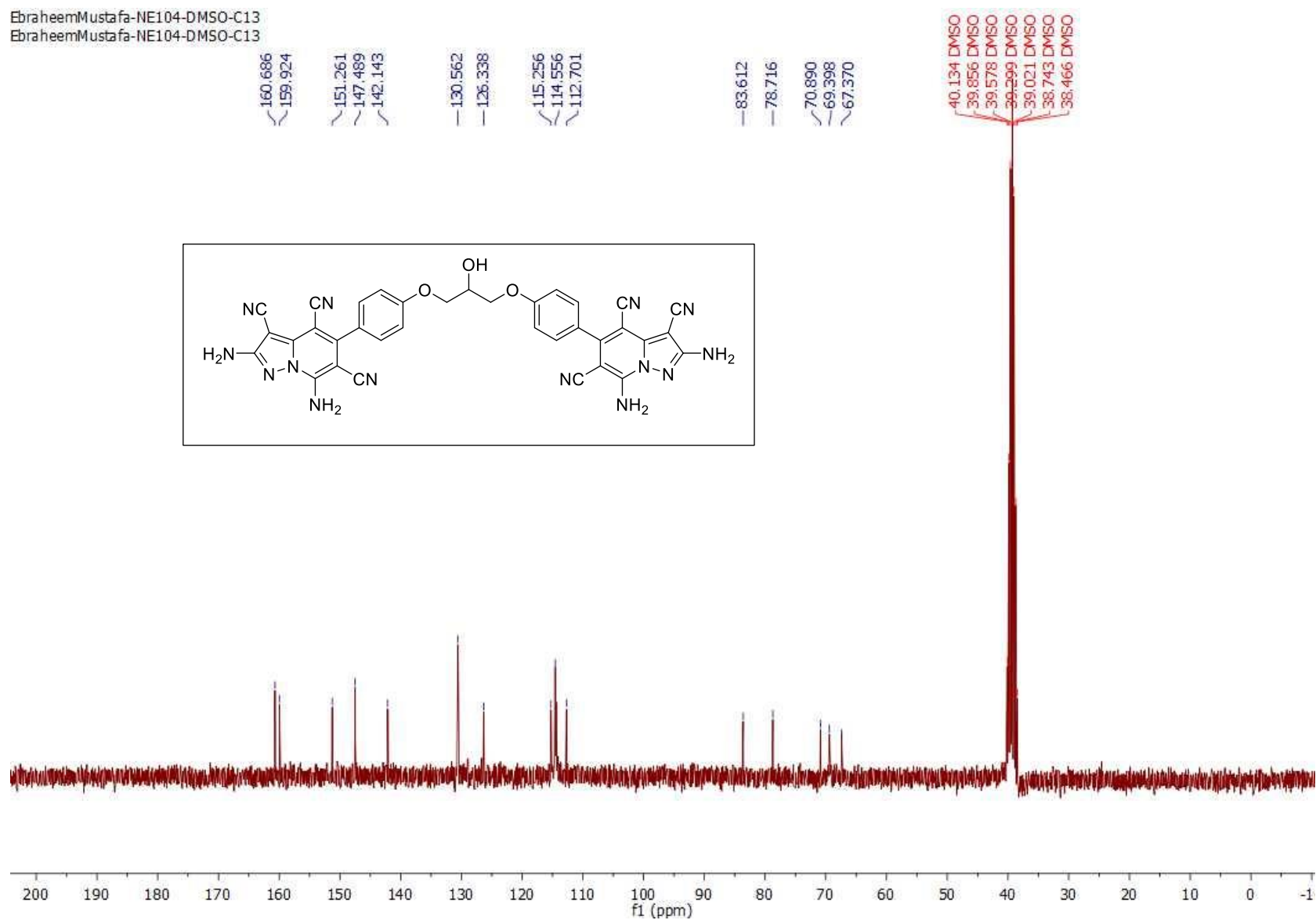
Nesma Ema d-Ne59a-DMSO-H1
Nesma Ema d-Ne59a-DMSO-H1¹H NMR spectrum of 18

Nesma Emad-Ne61Rdash-DMSO-H1
Nesma Emad-Ne61Rdash-DMSO-H1 ^1H NMR spectrum of 20

Nesma Emad-Ne-61-R--DMSO-C13
Nesma Emad-Ne-61-R--DMSO-C13¹³C NMR spectrum of 20

EbraheemMustafa-NE104-DMSO-H1
EbraheemMustafa-NE104-DMSO-H1 ^1H NMR spectrum of 23

EbraheemMustafa-NE104-DMSO-C13
EbraheemMustafa-NE104-DMSO-C13



¹H NMR spectrum of 23