

Supplementary Material

Novel bis([triazolo[3,4-*b*]thiadiazoles and bis([triazolo[3,4-*b*][thiadiazines) with antioxidant activity

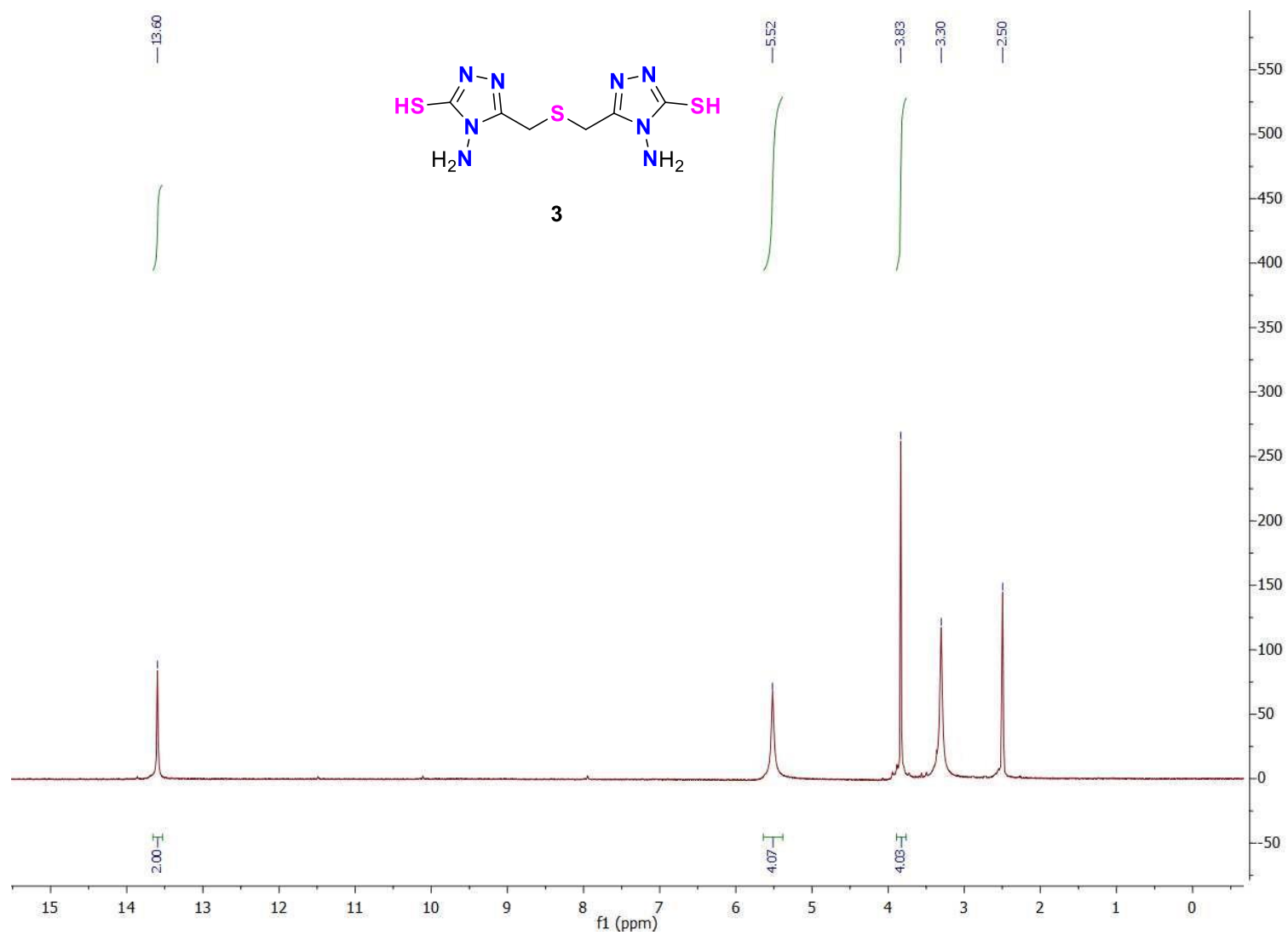
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Ahmed M. Farag^a, and Mostafa E. Salem^{e*}

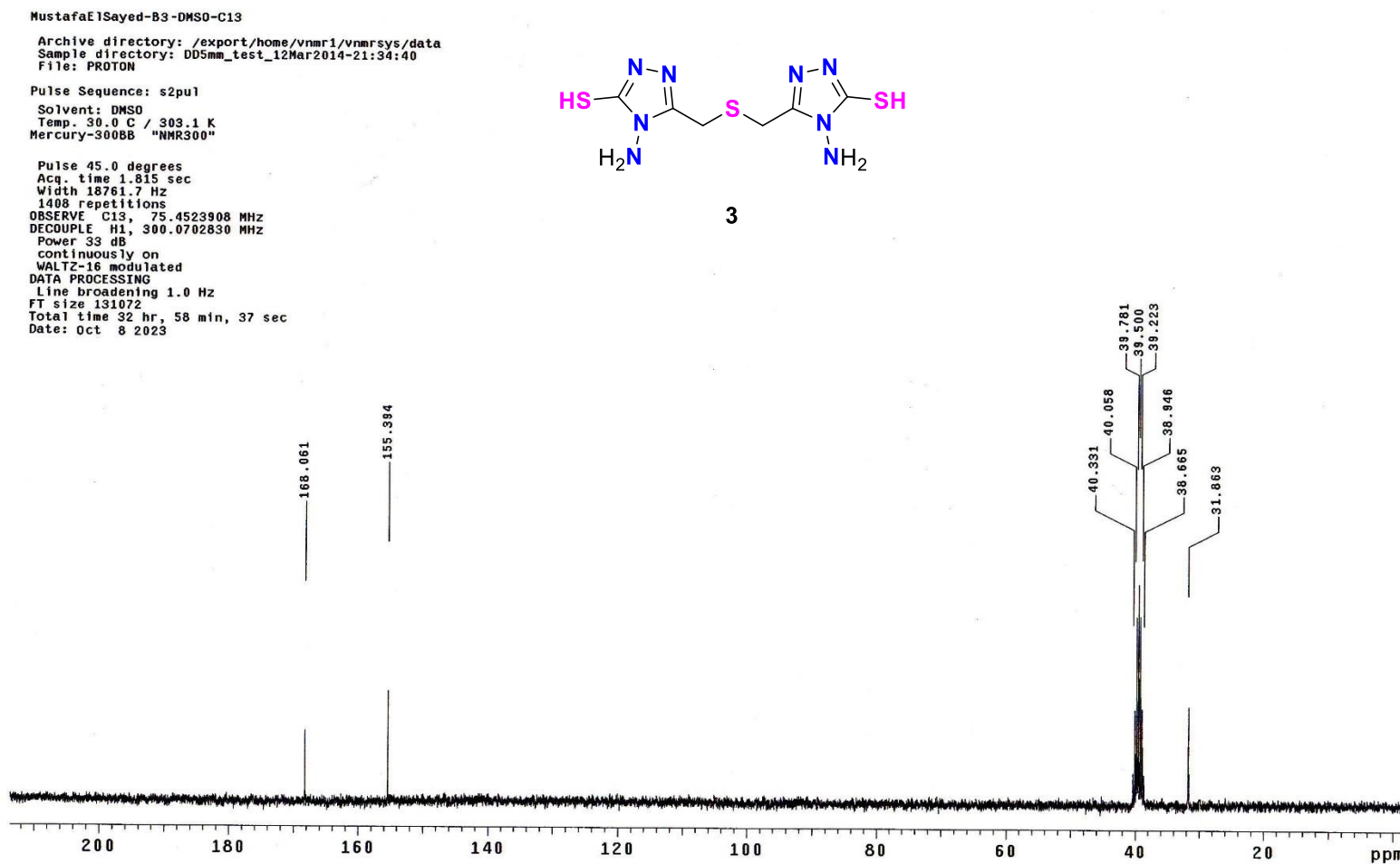
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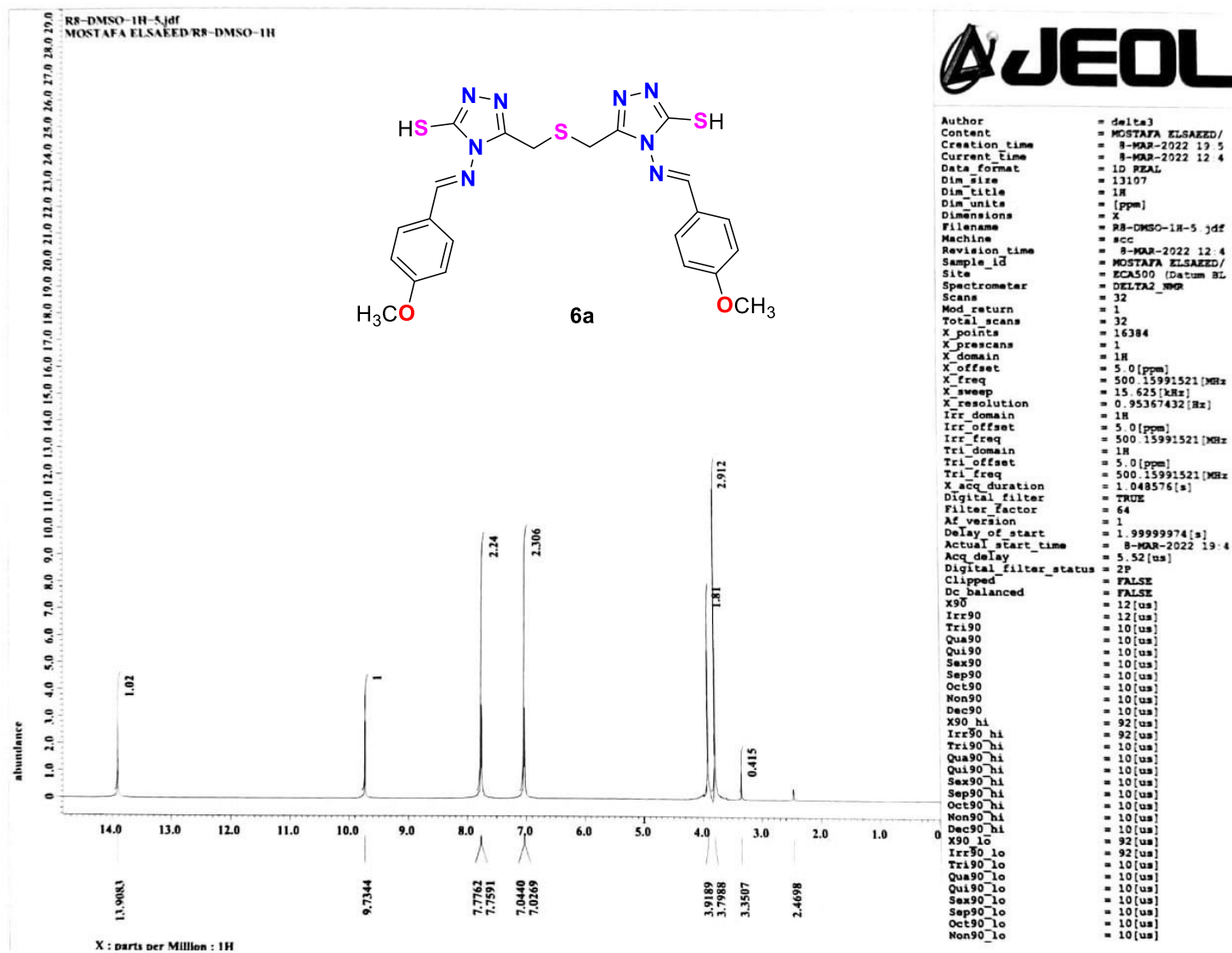
E-mail: aelwahy@hotmail.com, aelwahy@cu.edu.eg, m_chem788@yahoo.com, meaSalem@imamu.edu.sa

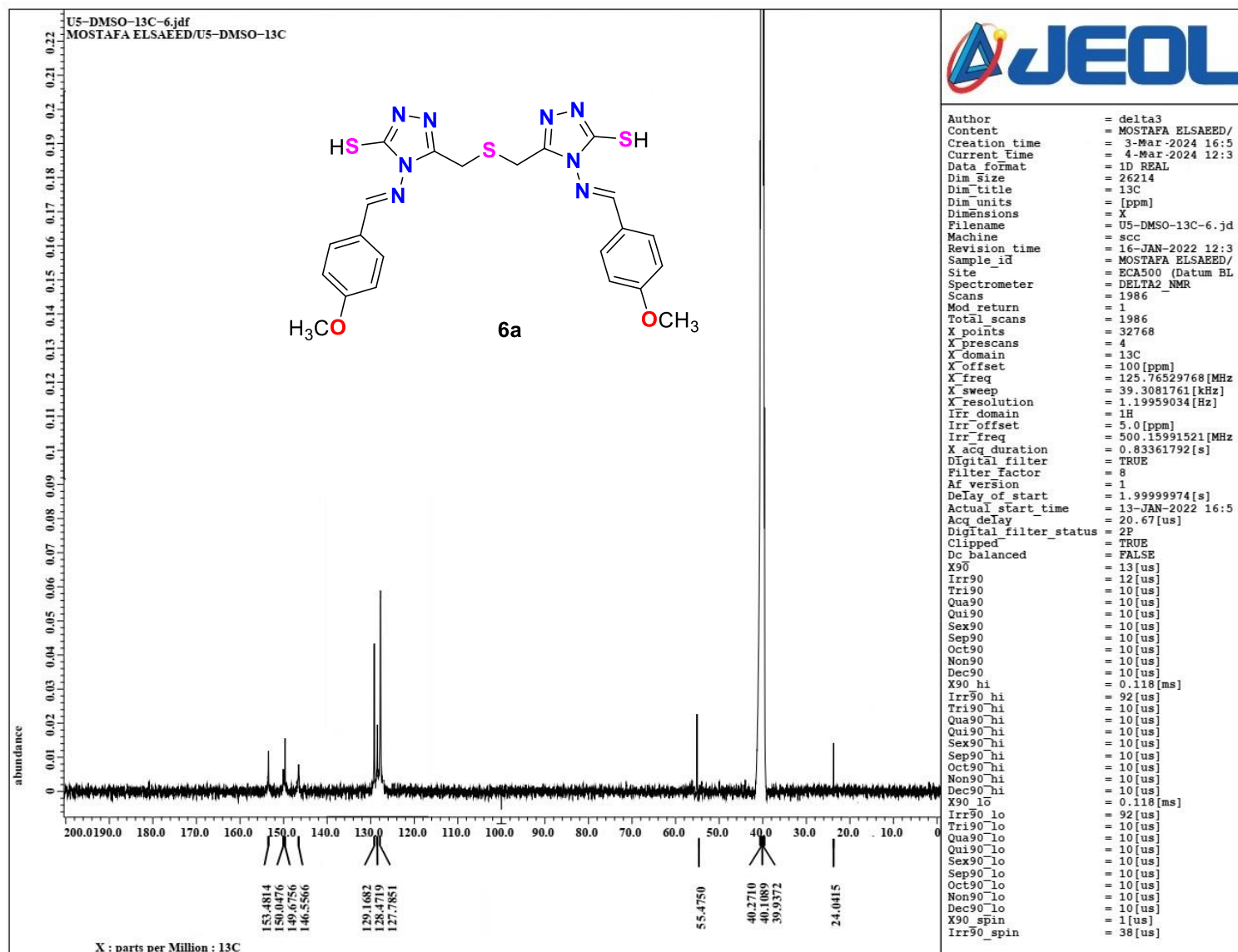
Table of Contents

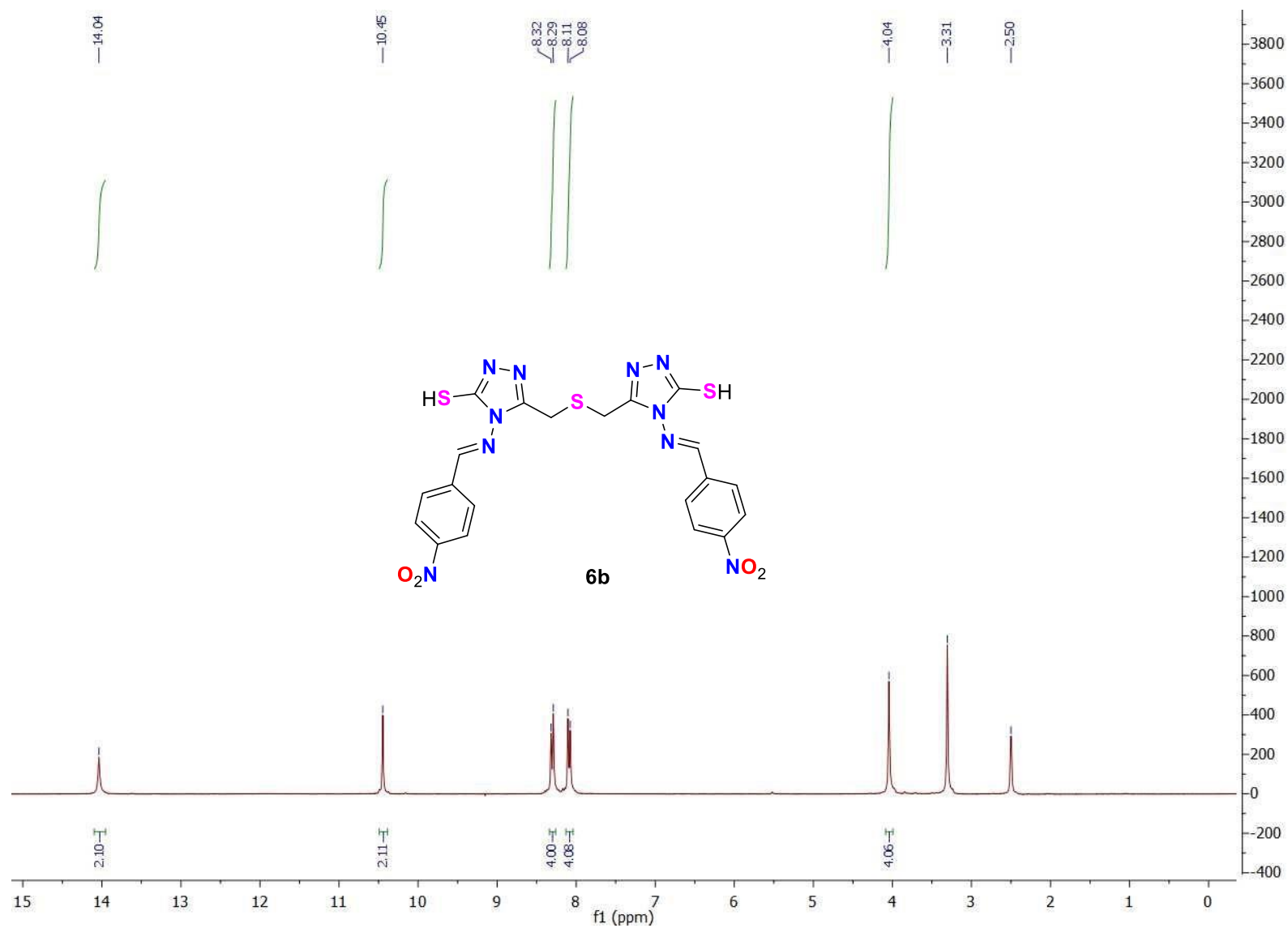
¹ H and ¹³ C NMR spectra of synthesized compounds	S2
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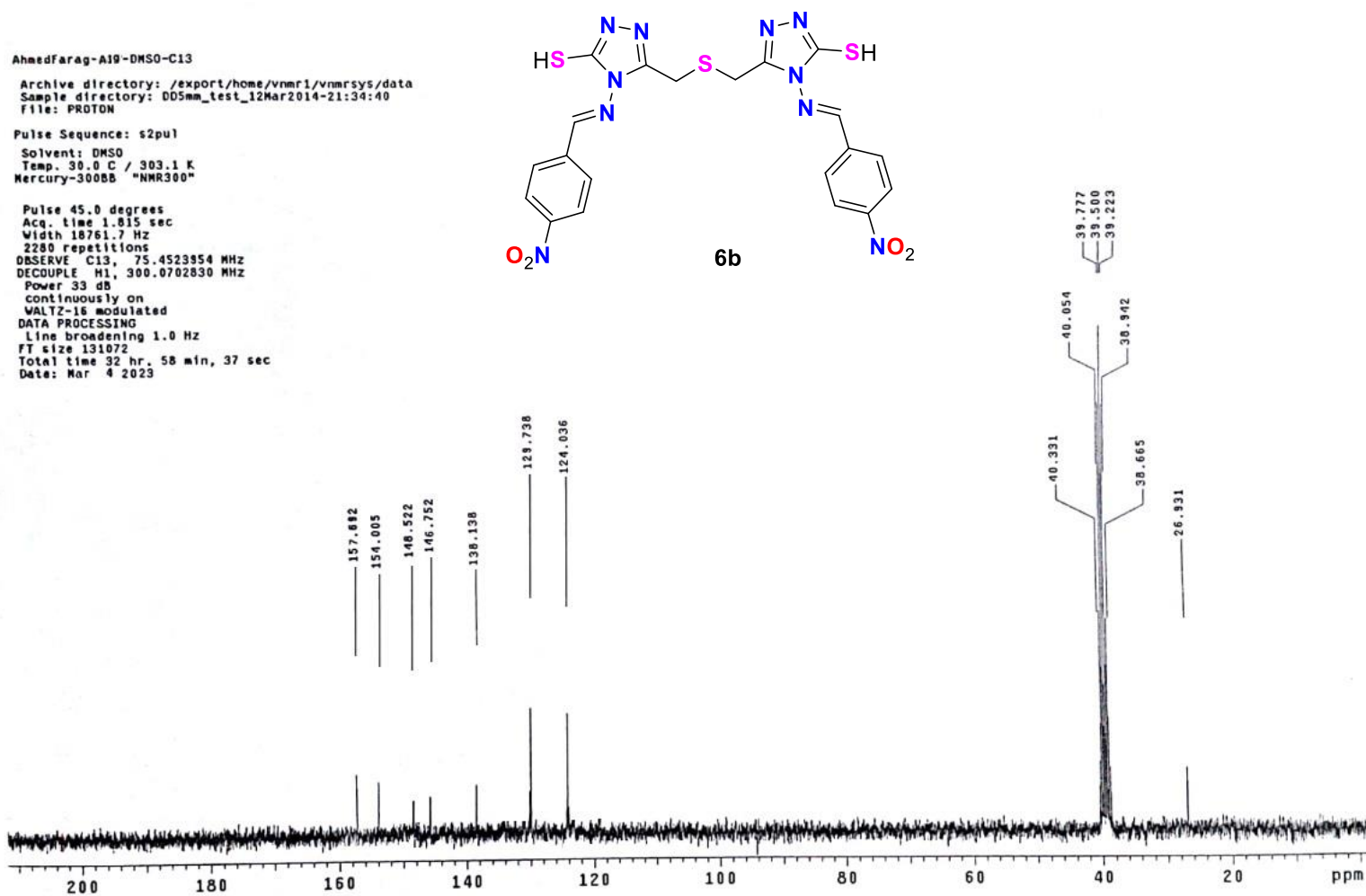
Spectral dataFigure S1: ¹H NMR spectrum of compound 3

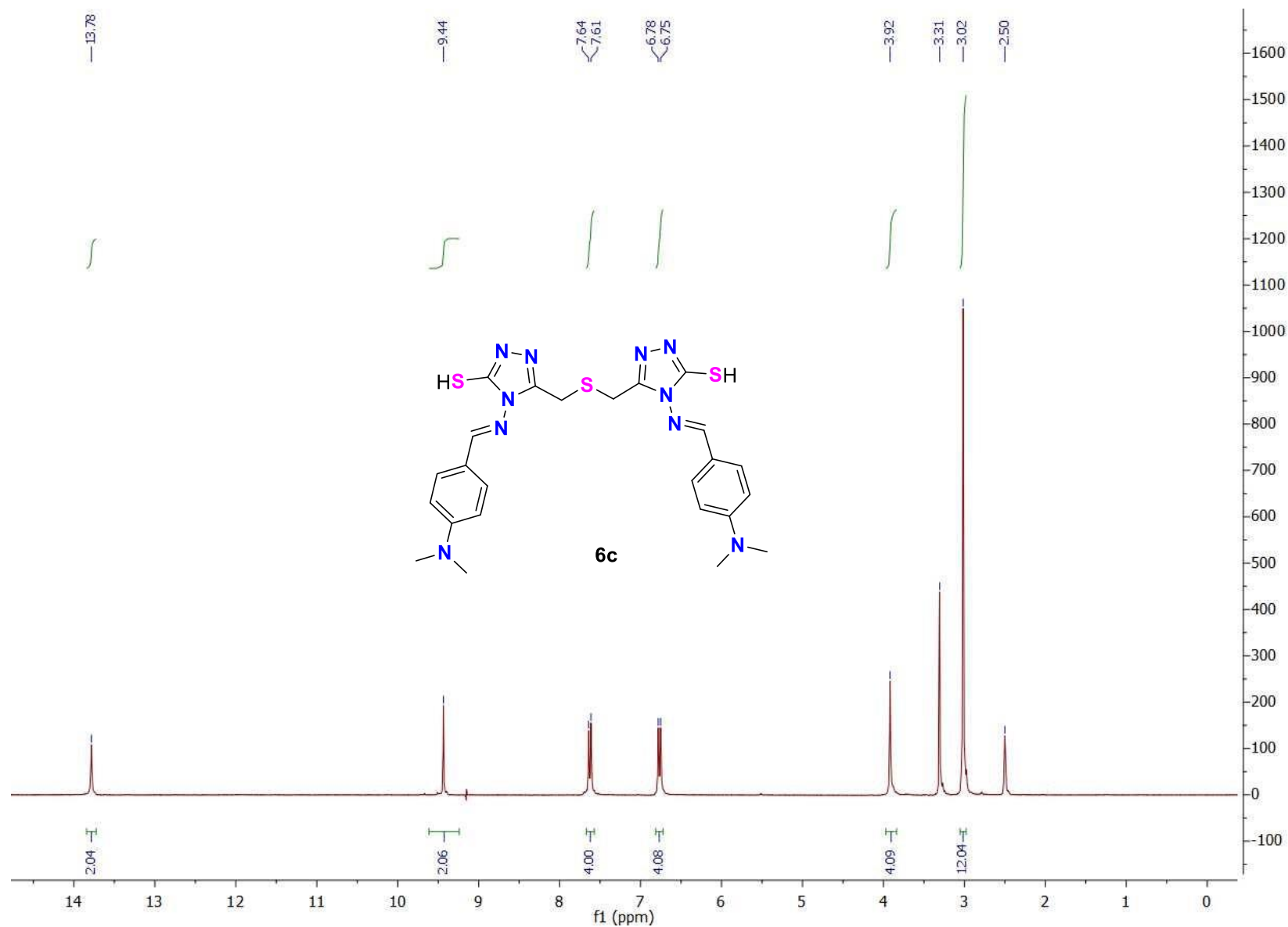
Figure S2: ^{13}C NMR spectrum of compound 3

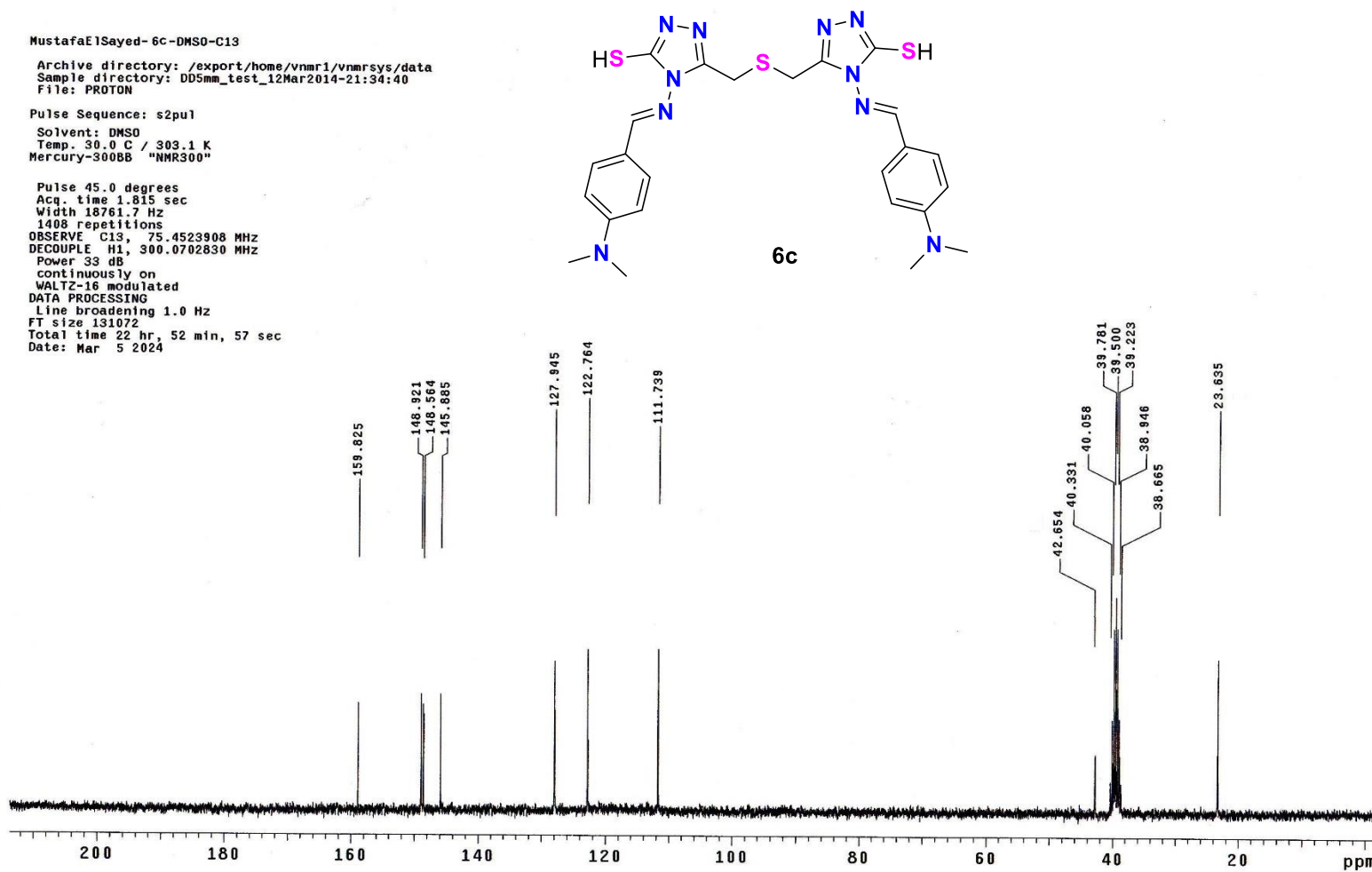
Figure S3: ¹H NMR spectrum of compound 6a

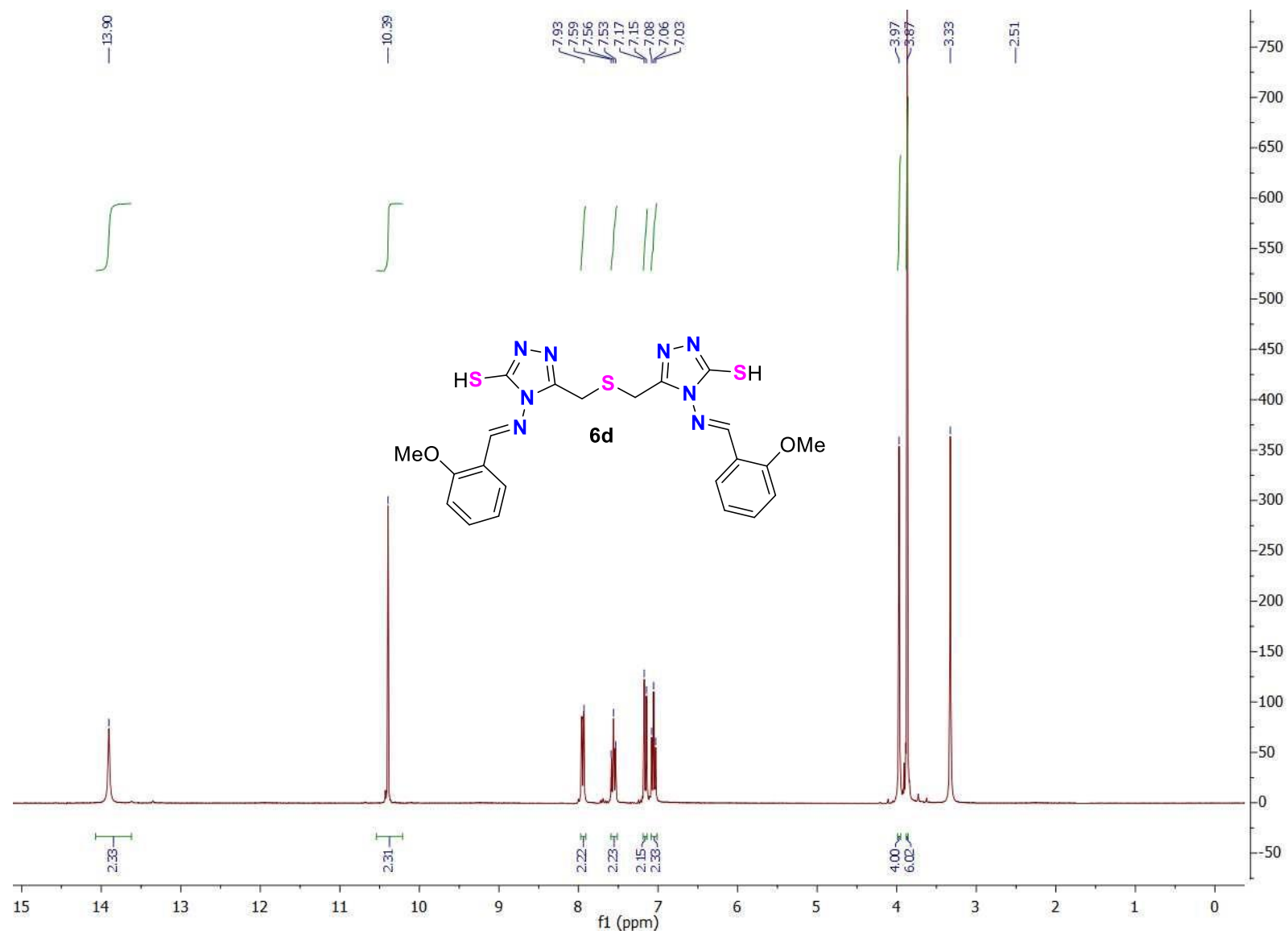
Figure S4: ^{13}C NMR spectrum of compound 6a

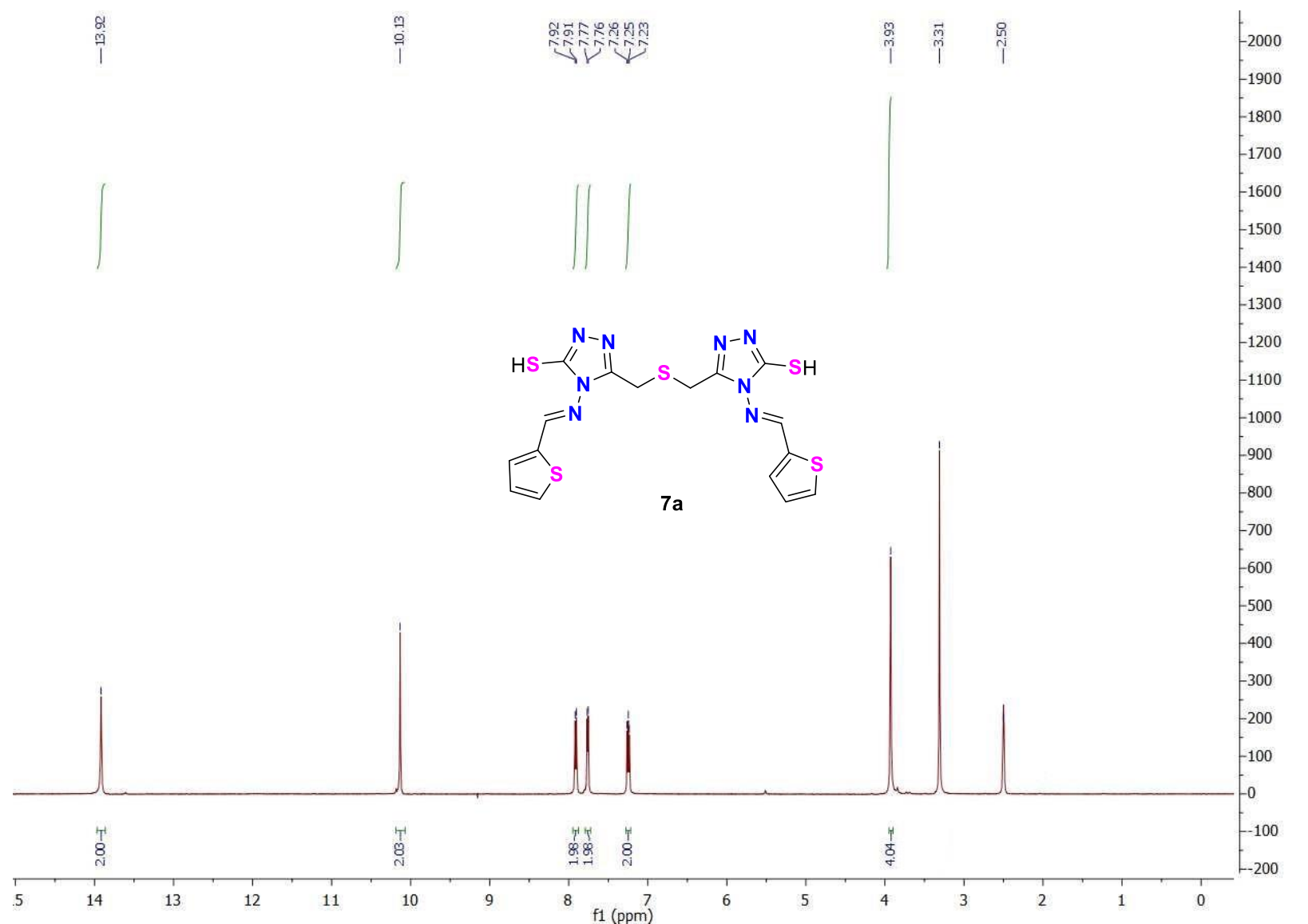
Figure S5: ^1H NMR spectrum of compound **6b**

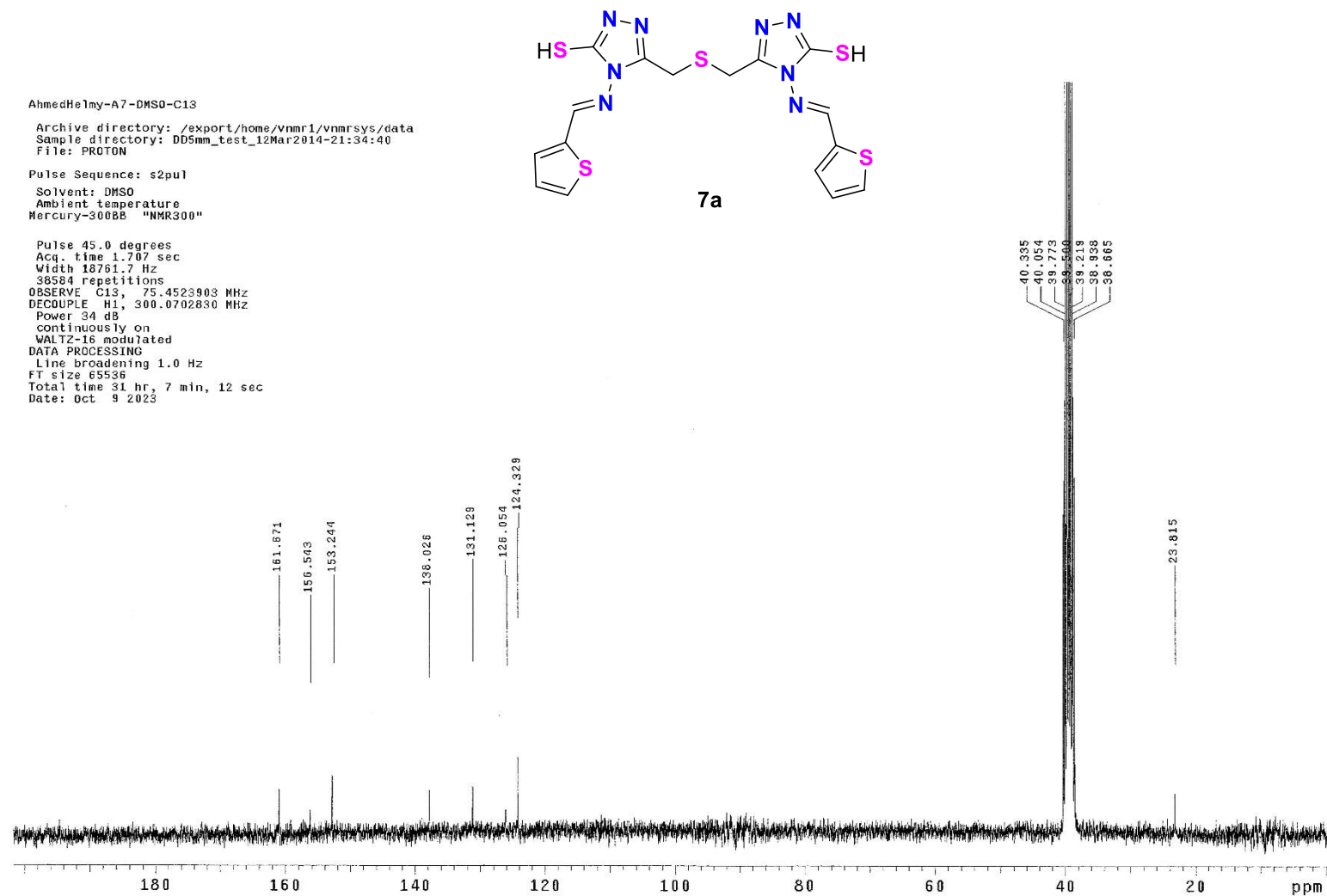
Figure S6: ^{13}C NMR spectrum of compound 6b

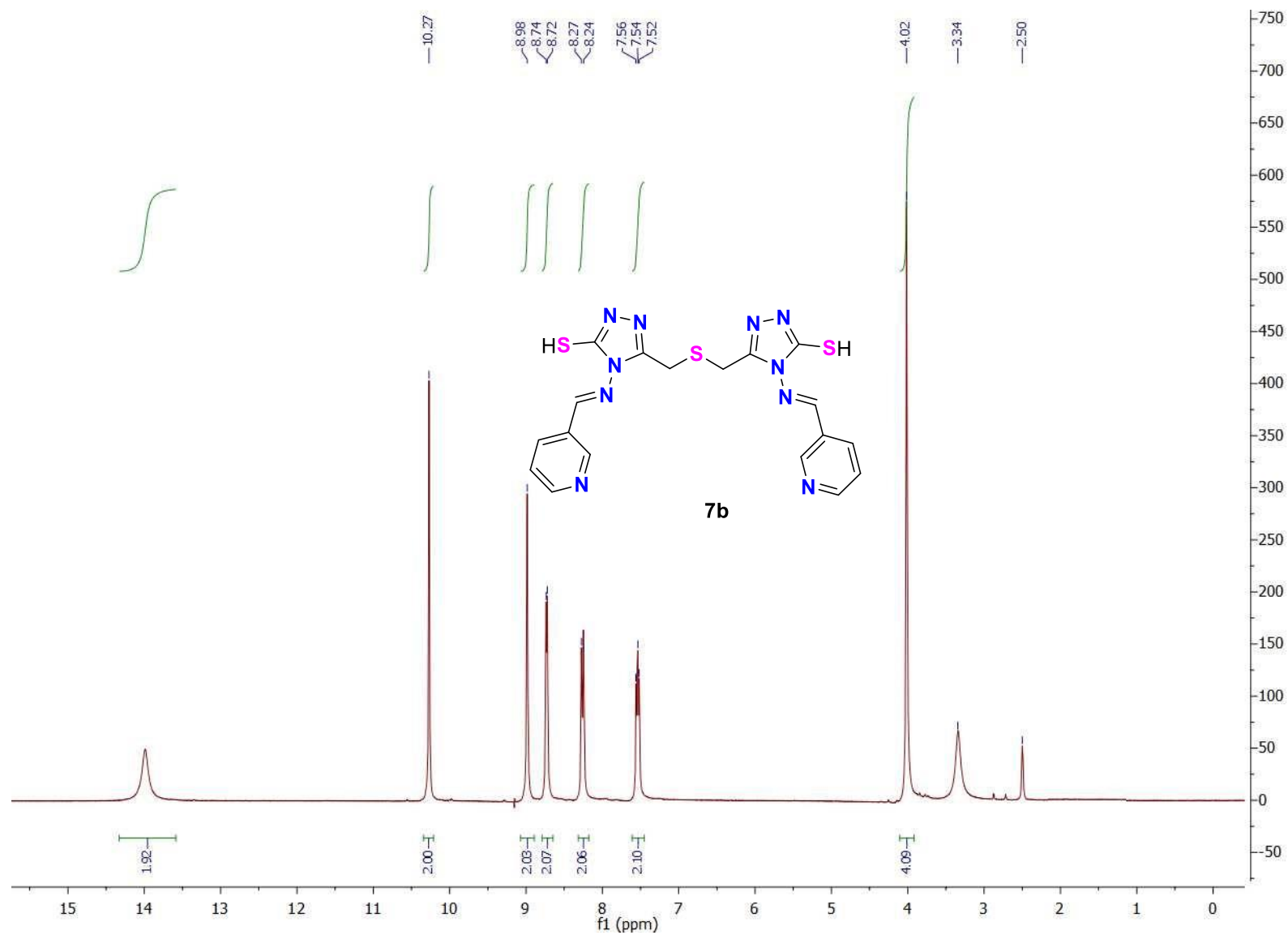
Figure S7: ^1H NMR spectrum of compound **6c**

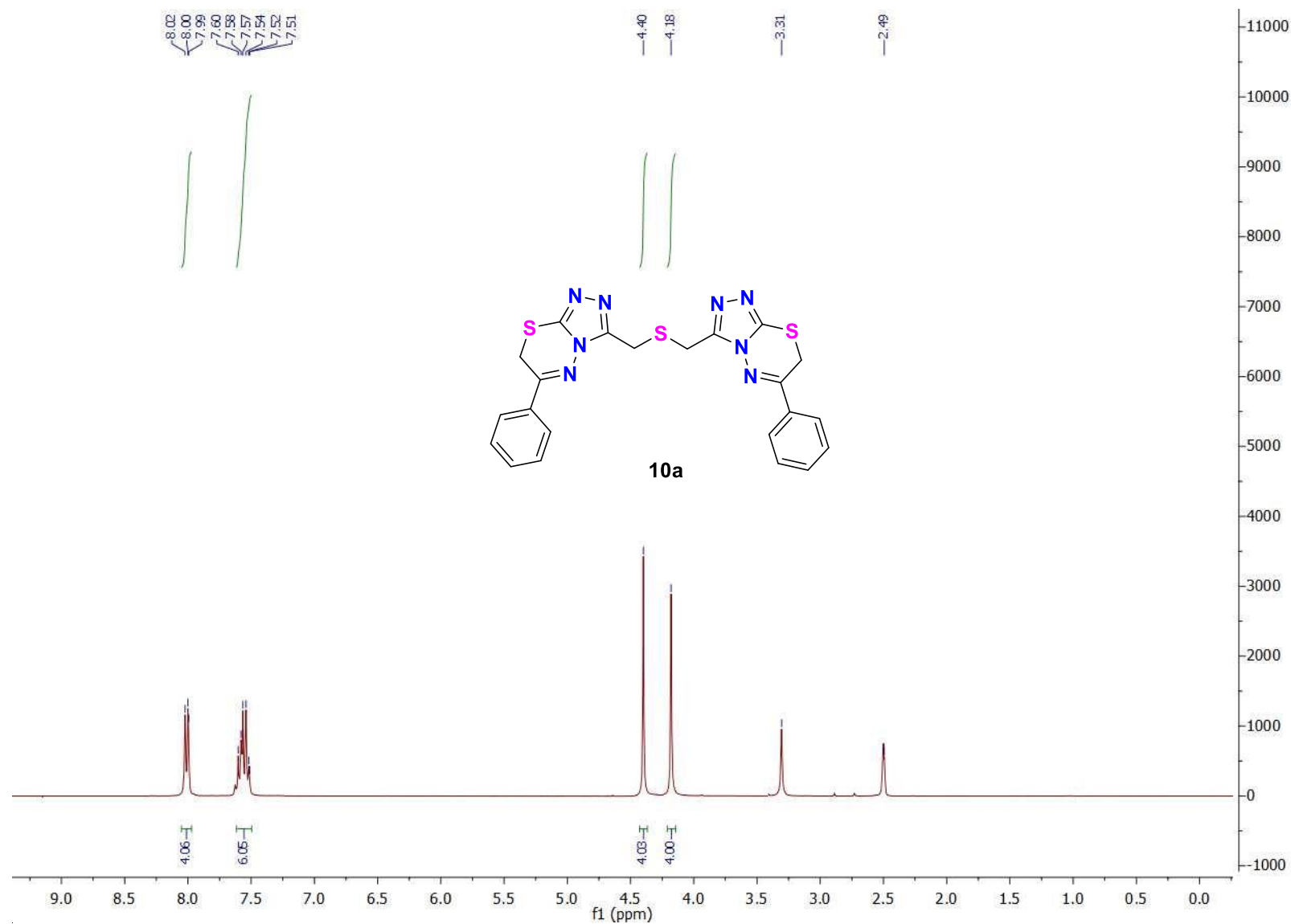
Figure S8: ^{13}C NMR spectrum of compound 6c

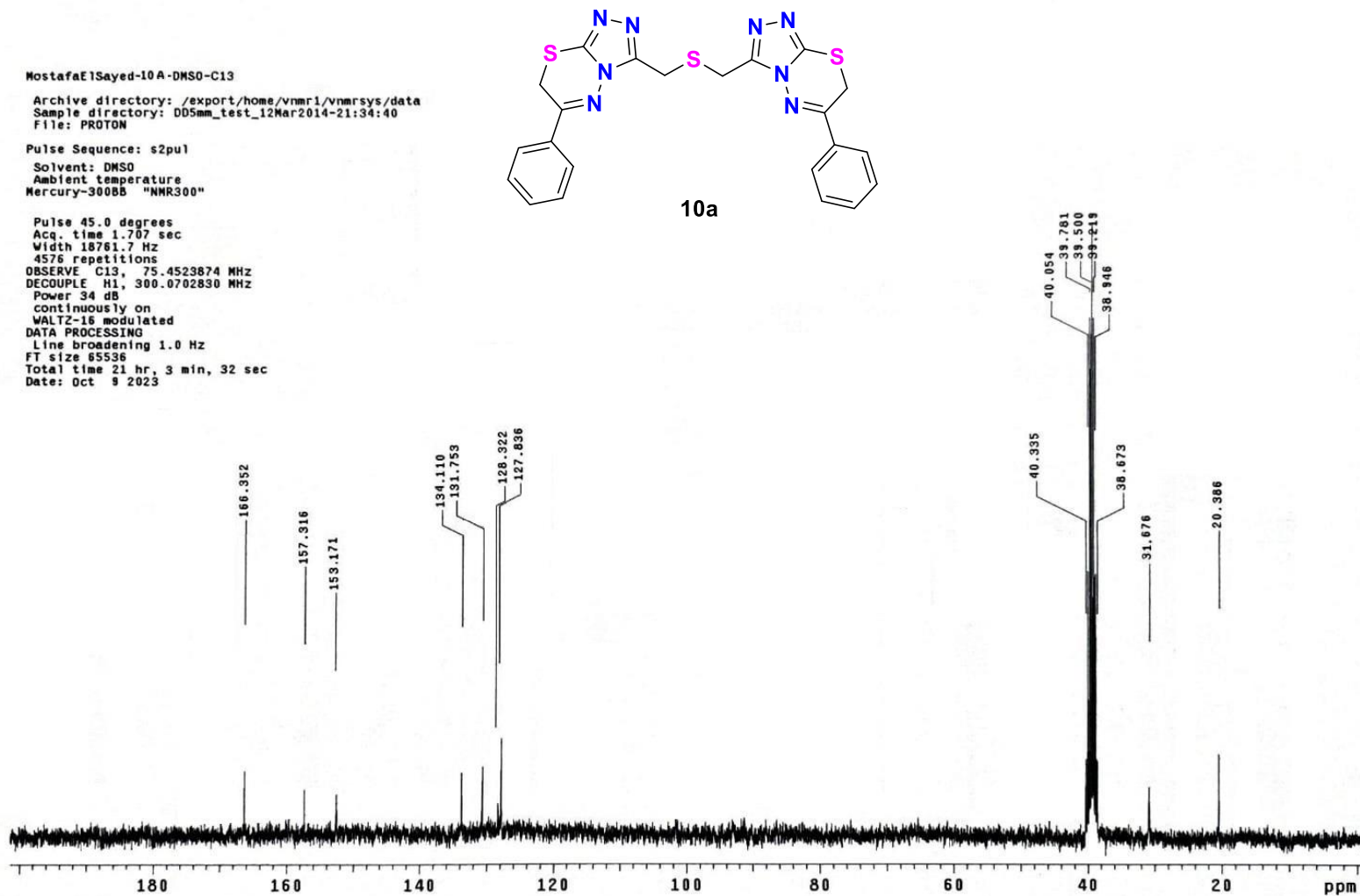
Figure S9: ^1H NMR spectrum of compound 6d

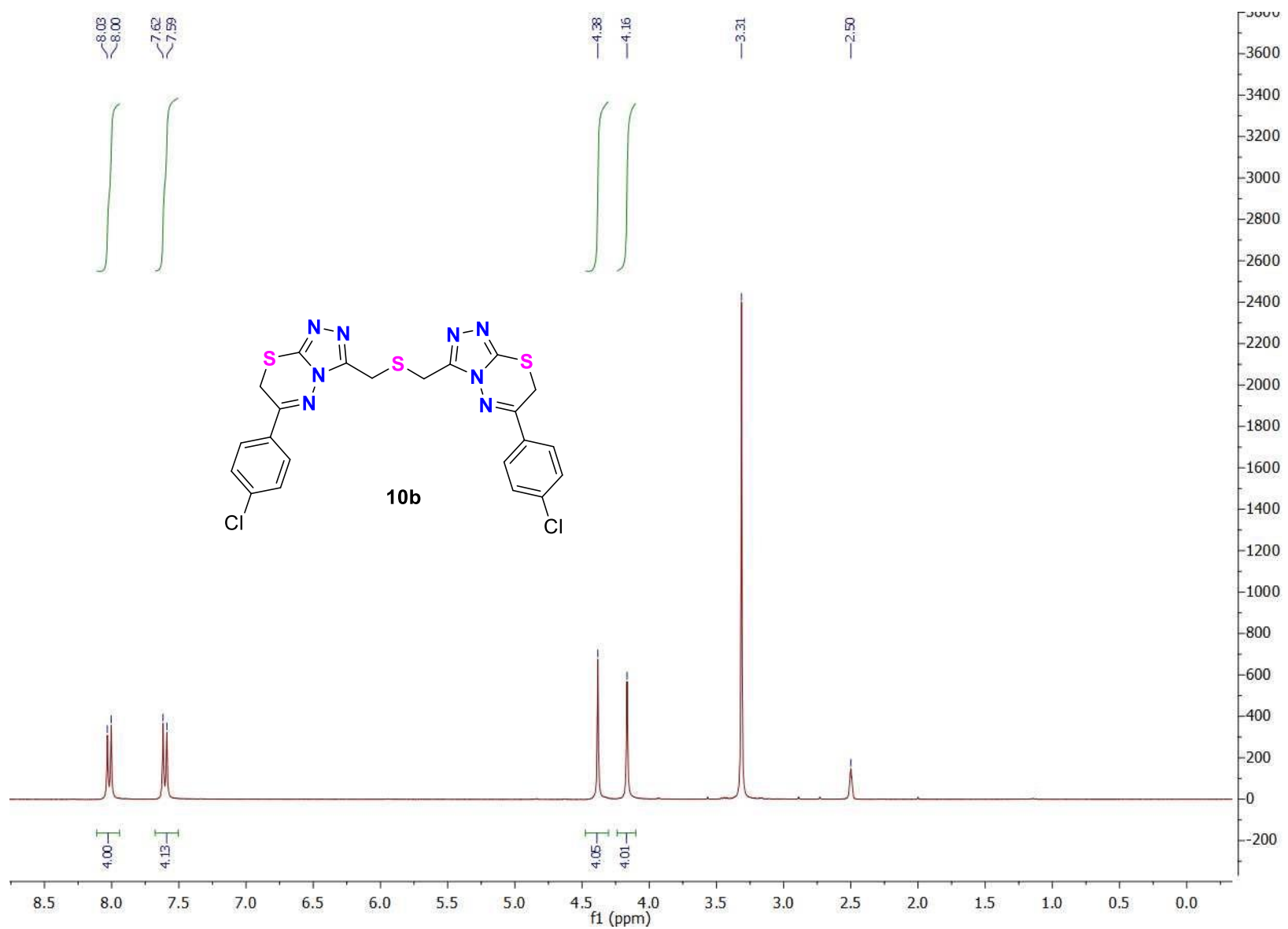
Figure S10: ^1H NMR spectrum of compound 7a

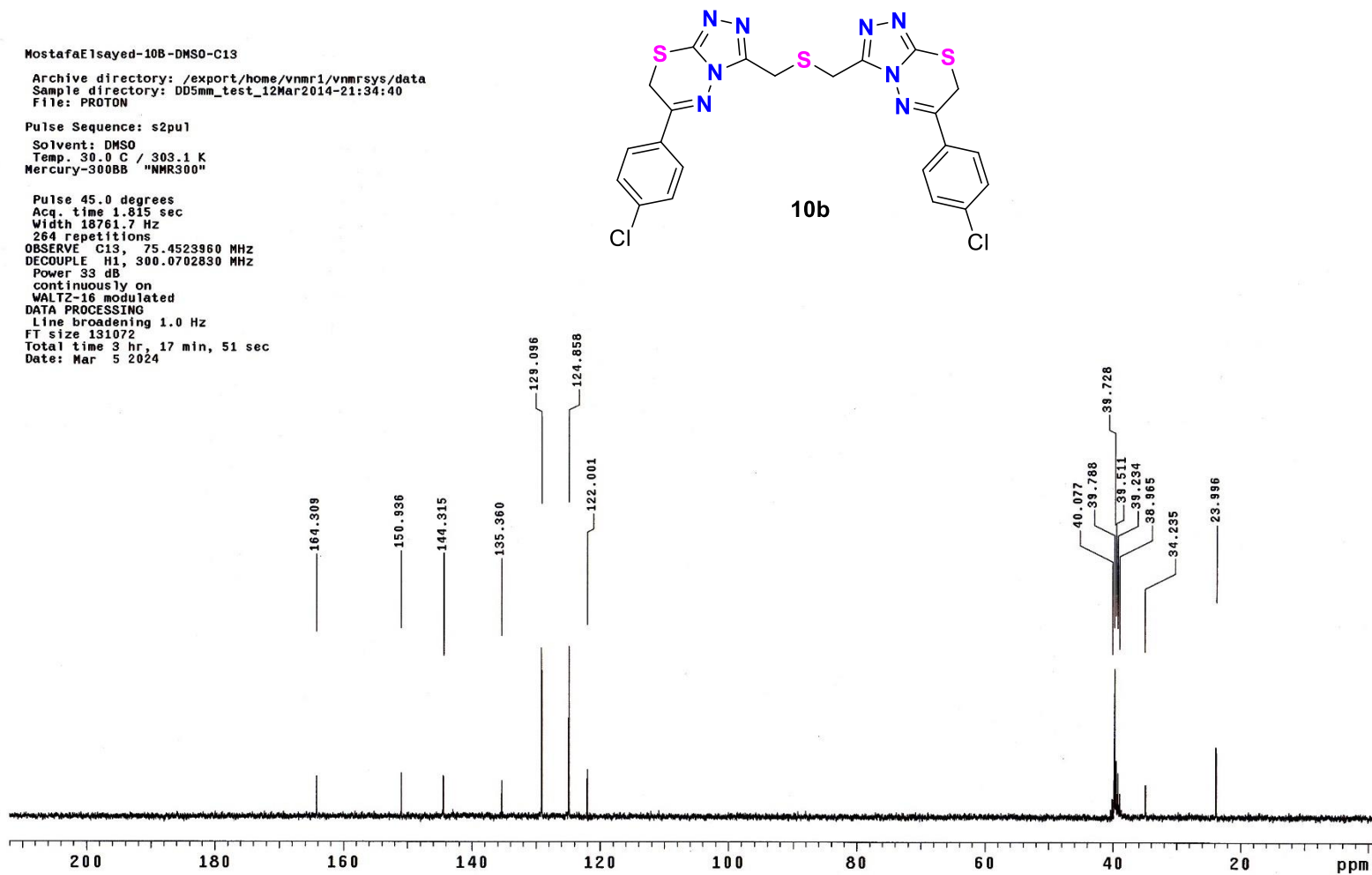
Figure S11: ^{13}C NMR spectrum of compound 7a

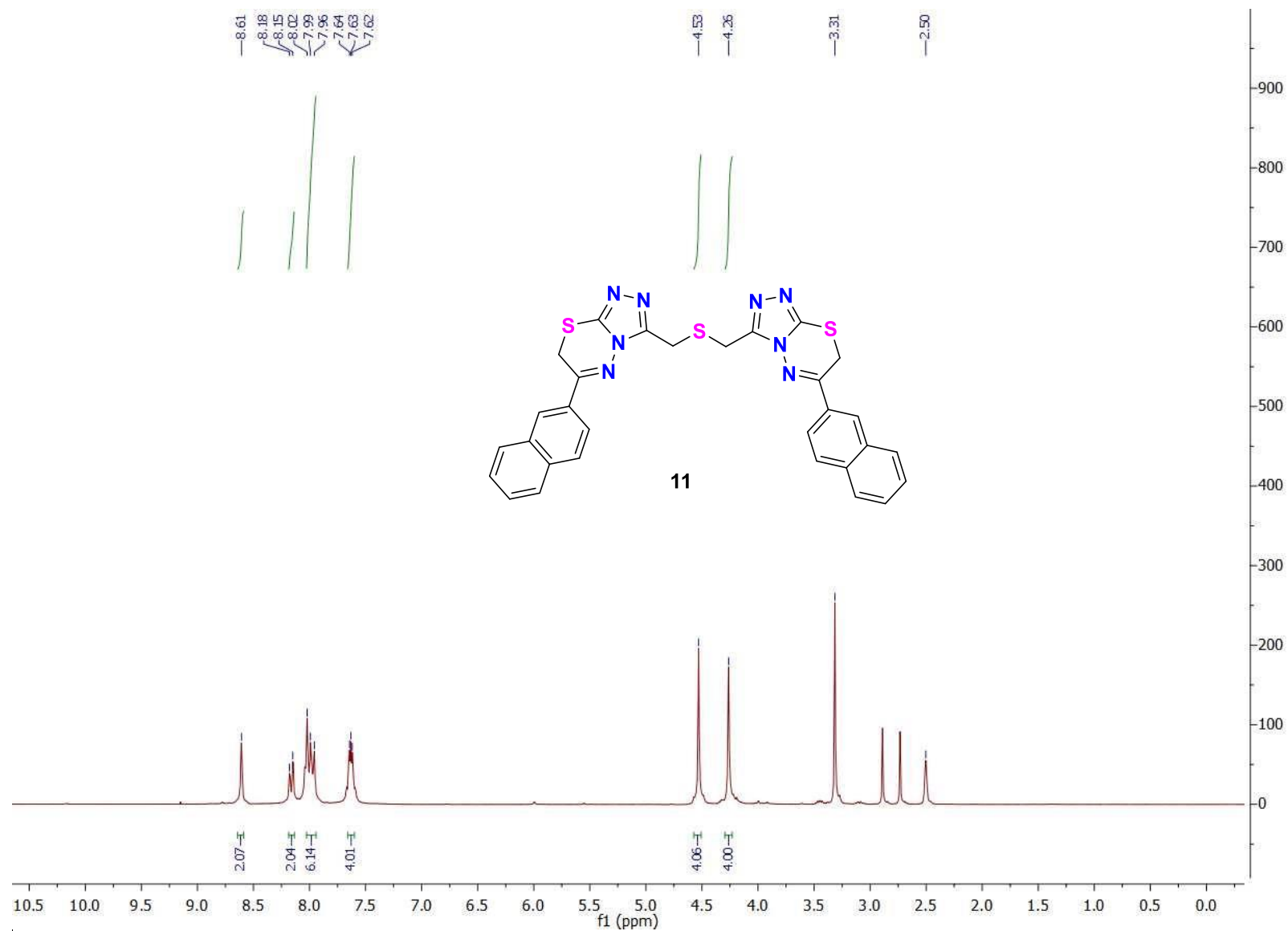
Figure S12: ^1H NMR spectrum of compound **7b**

Figure S13: ^1H NMR spectrum of compound 10a

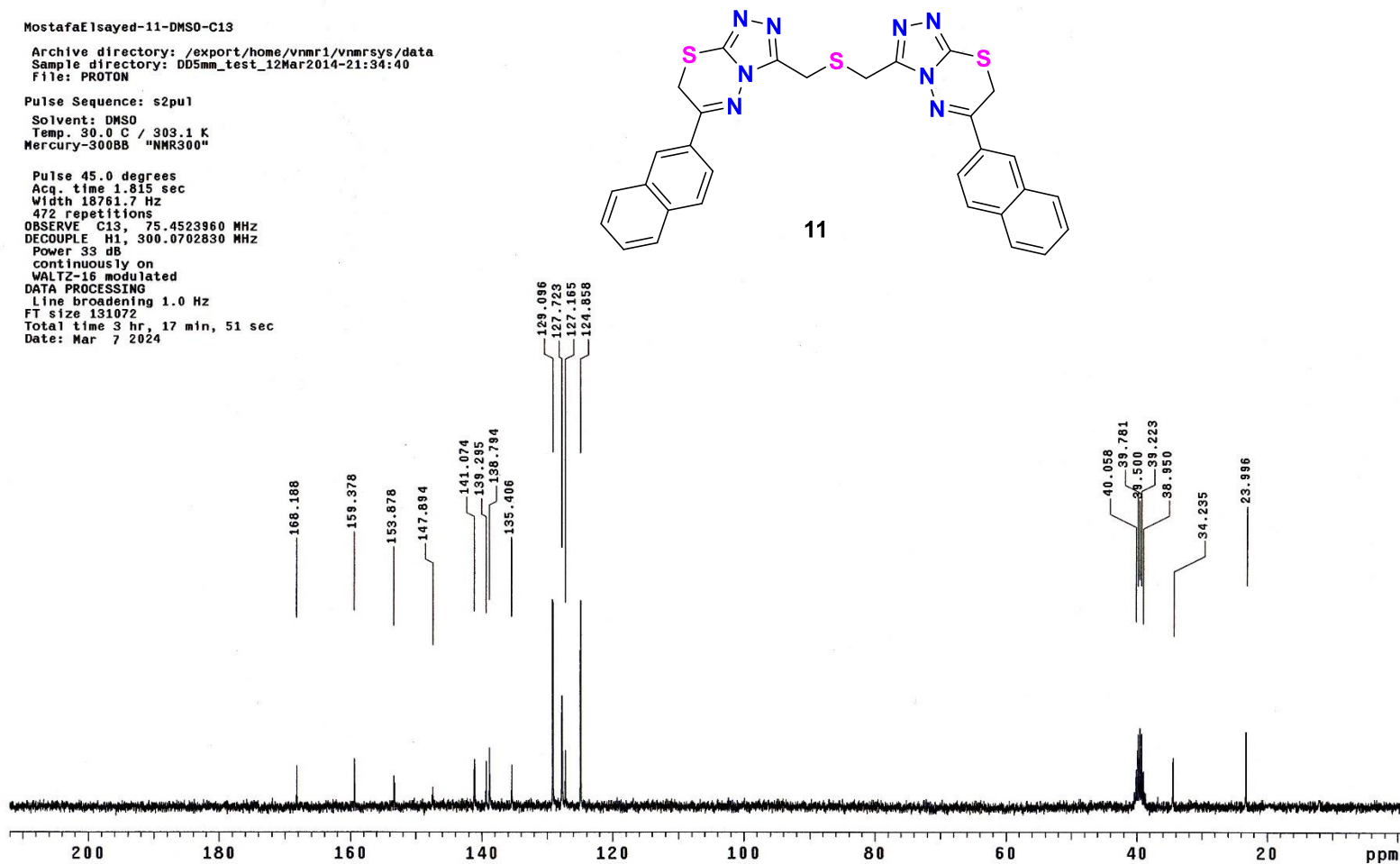
Figure S14: ^{13}C NMR spectrum of compound 10a

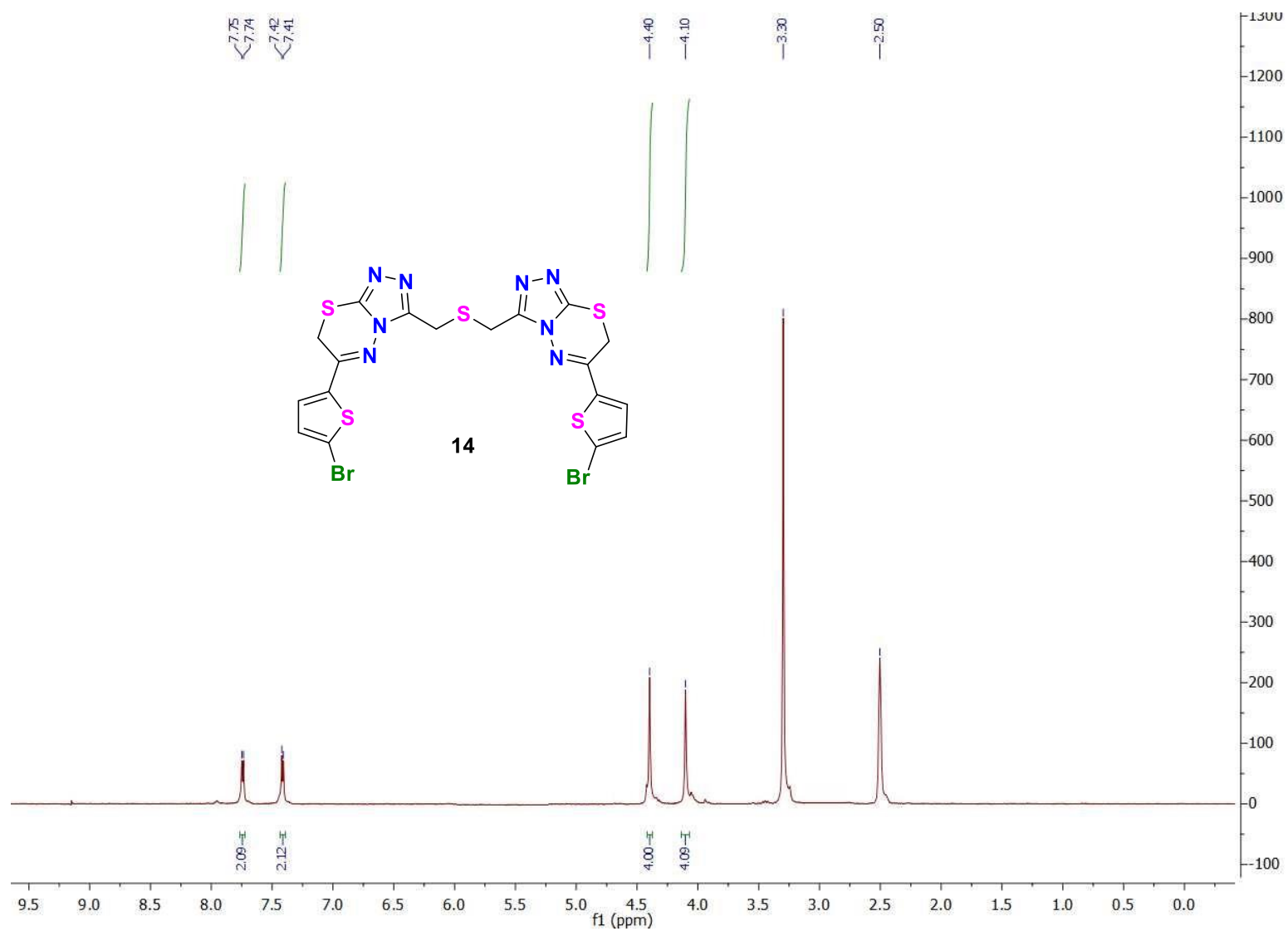
Figure S15: ^1H NMR spectrum of compound **10b**

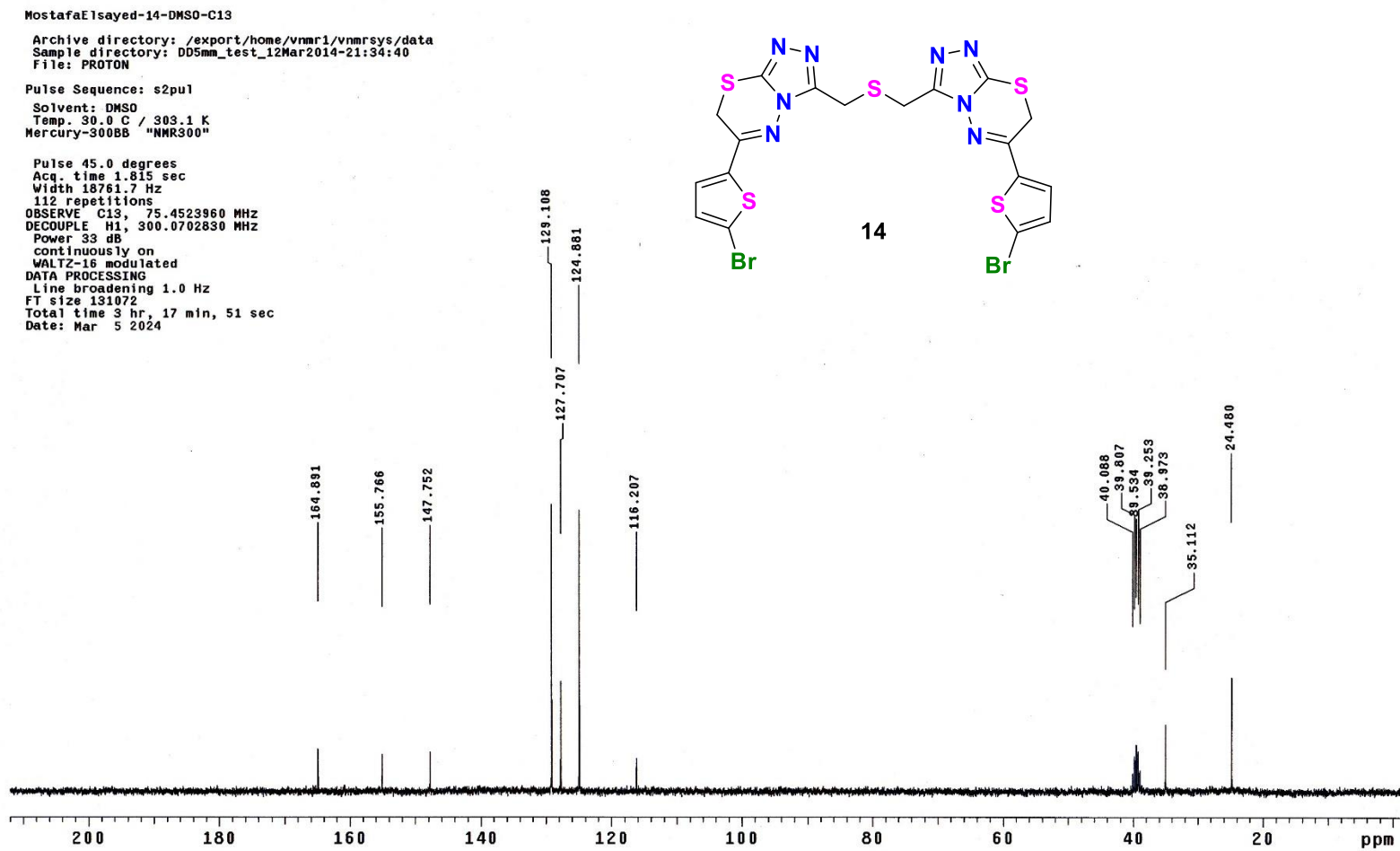
Figure S16: ^{13}C NMR spectrum of compound 10b

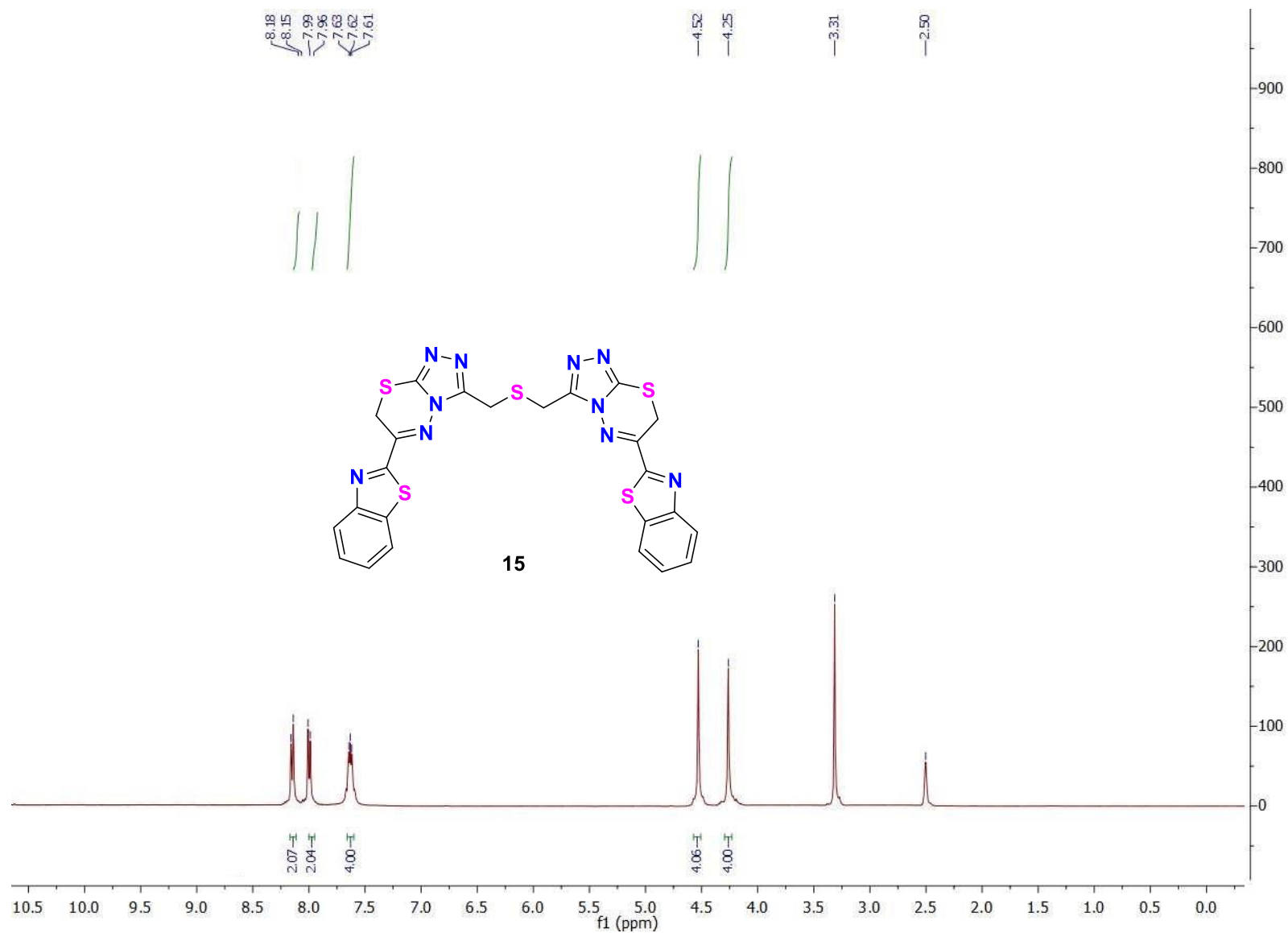
Figure S17: ^1H NMR spectrum of compound 11

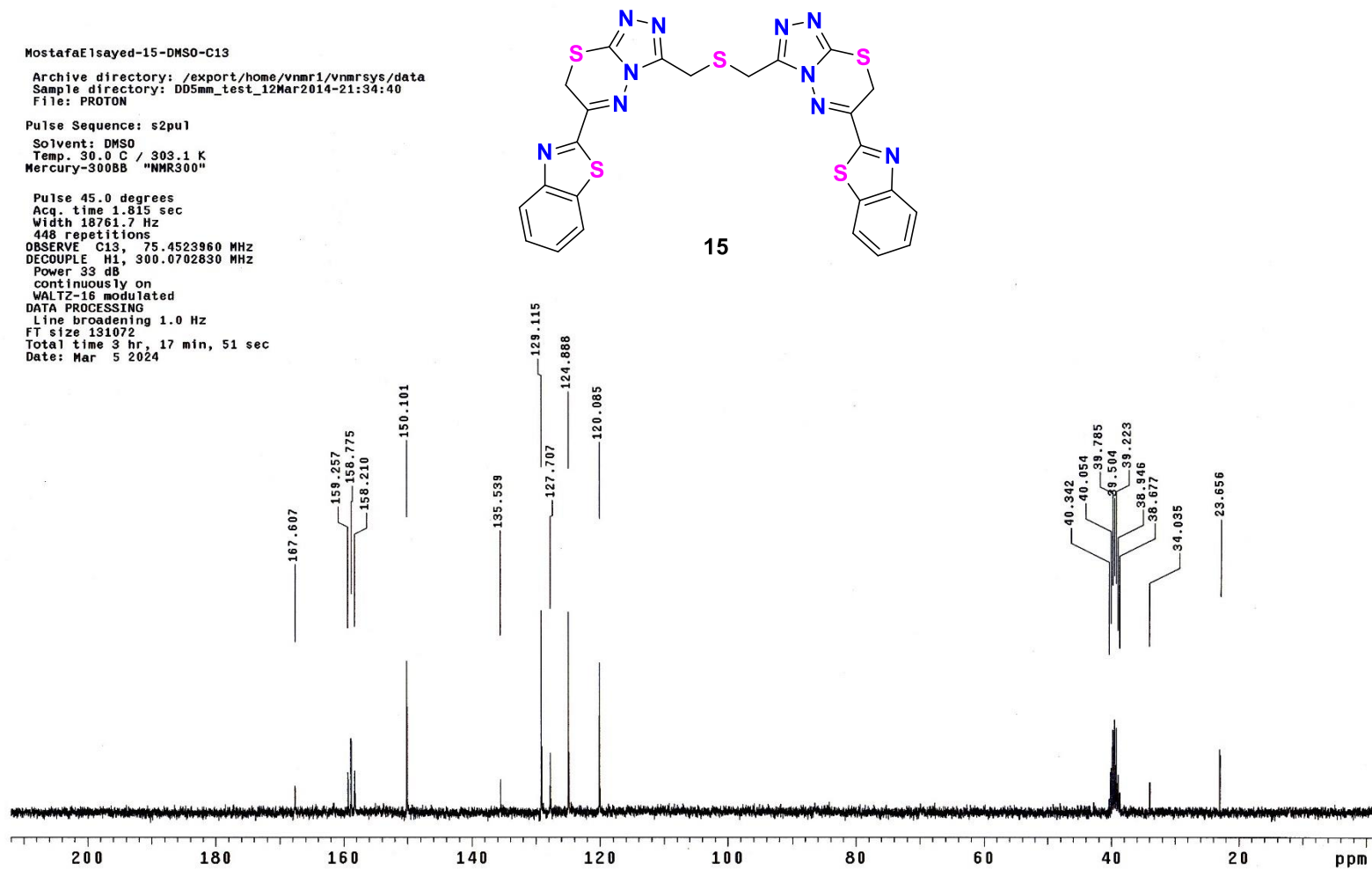
MostafaElsayed-11-DMSO-C13

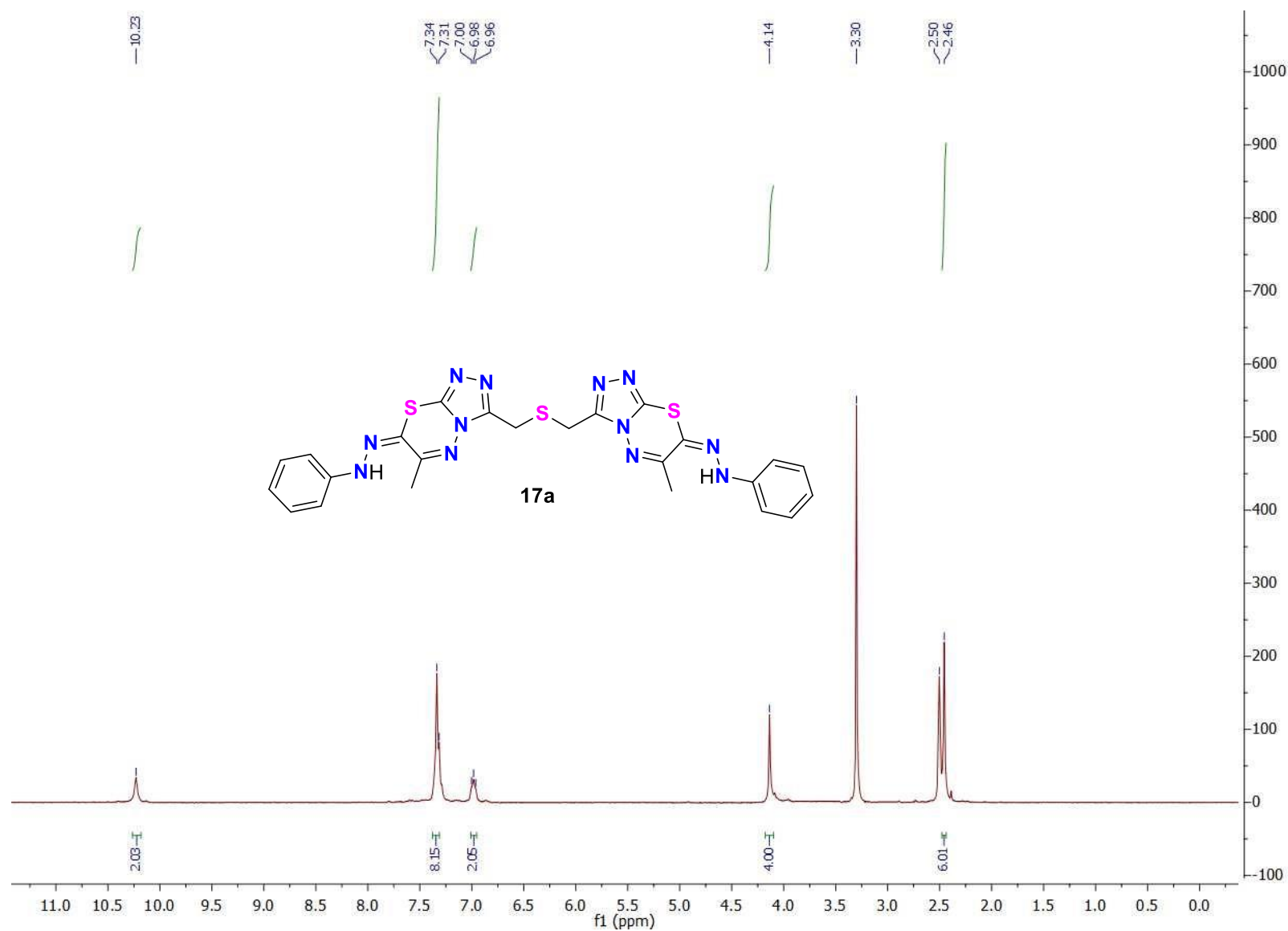
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Solvent: DMSO
Temp. 30.0 C / 303.1 K
Mercury-300BB "NMR300"Pulse 45.0 degrees
Acq. time 1.815 sec
Width 18761.7 Hz
472 repetitions
OBSERVE C13, 75.4523960 MHz
DECOUPLE H1, 300.0702830 MHz
Power 33 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
FT size 131072
Total time 3 hr, 17 min, 51 sec
Date: Mar 7 2024Figure S18: ¹³C NMR spectrum of compound 11

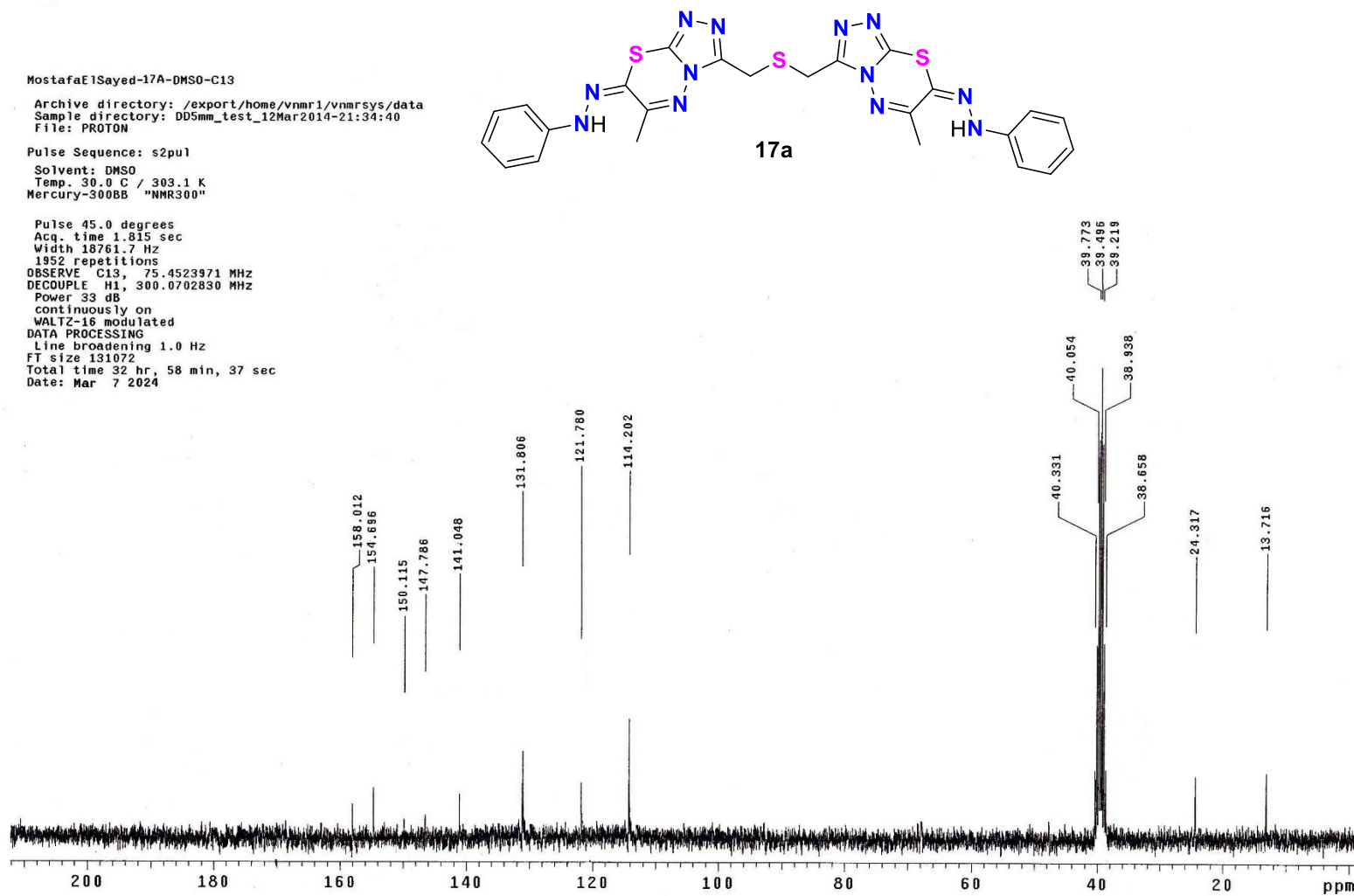
Figure S19: ¹H NMR spectrum of compound 14

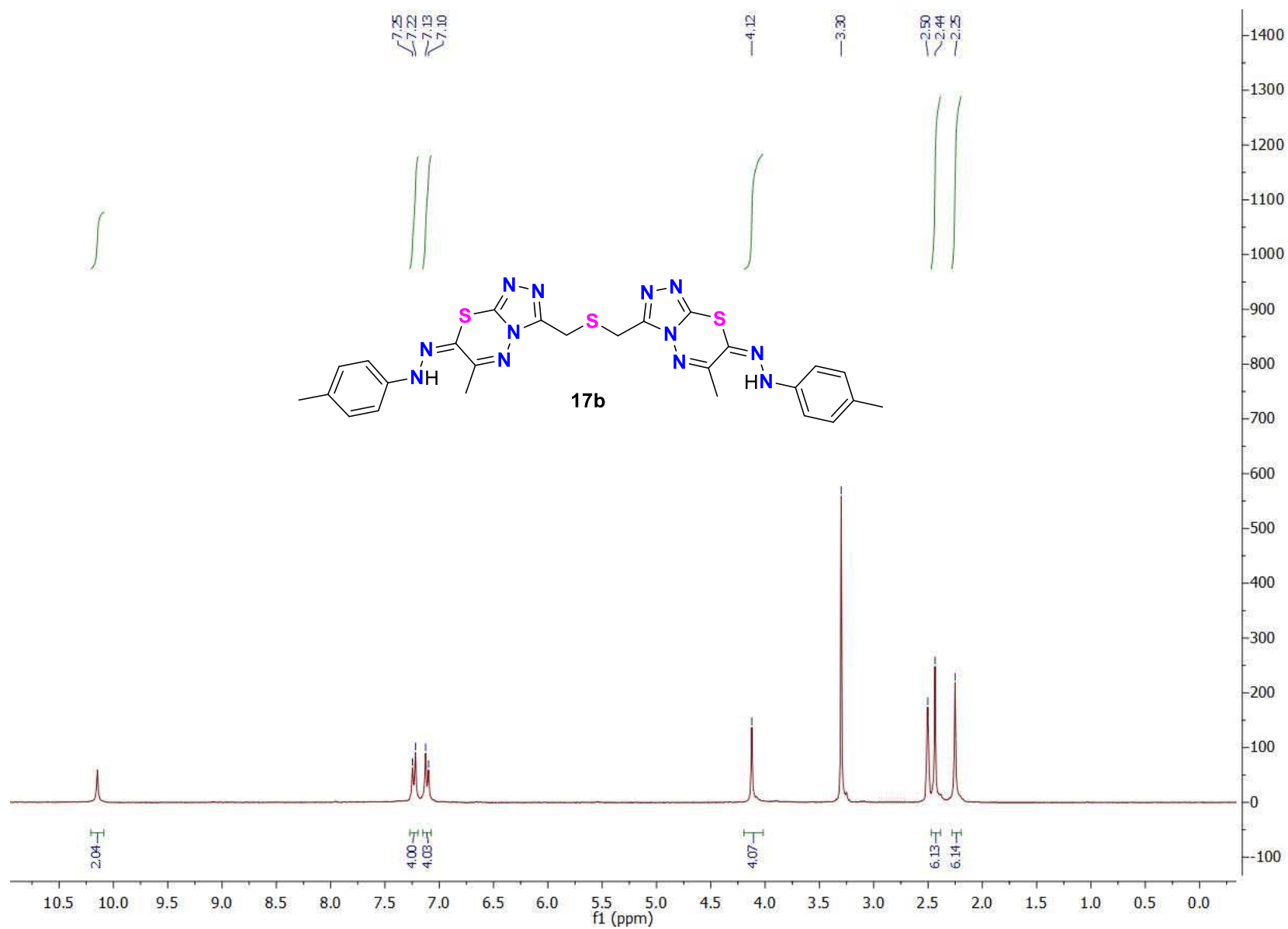
Figure S20: ^{13}C NMR spectrum of compound 14

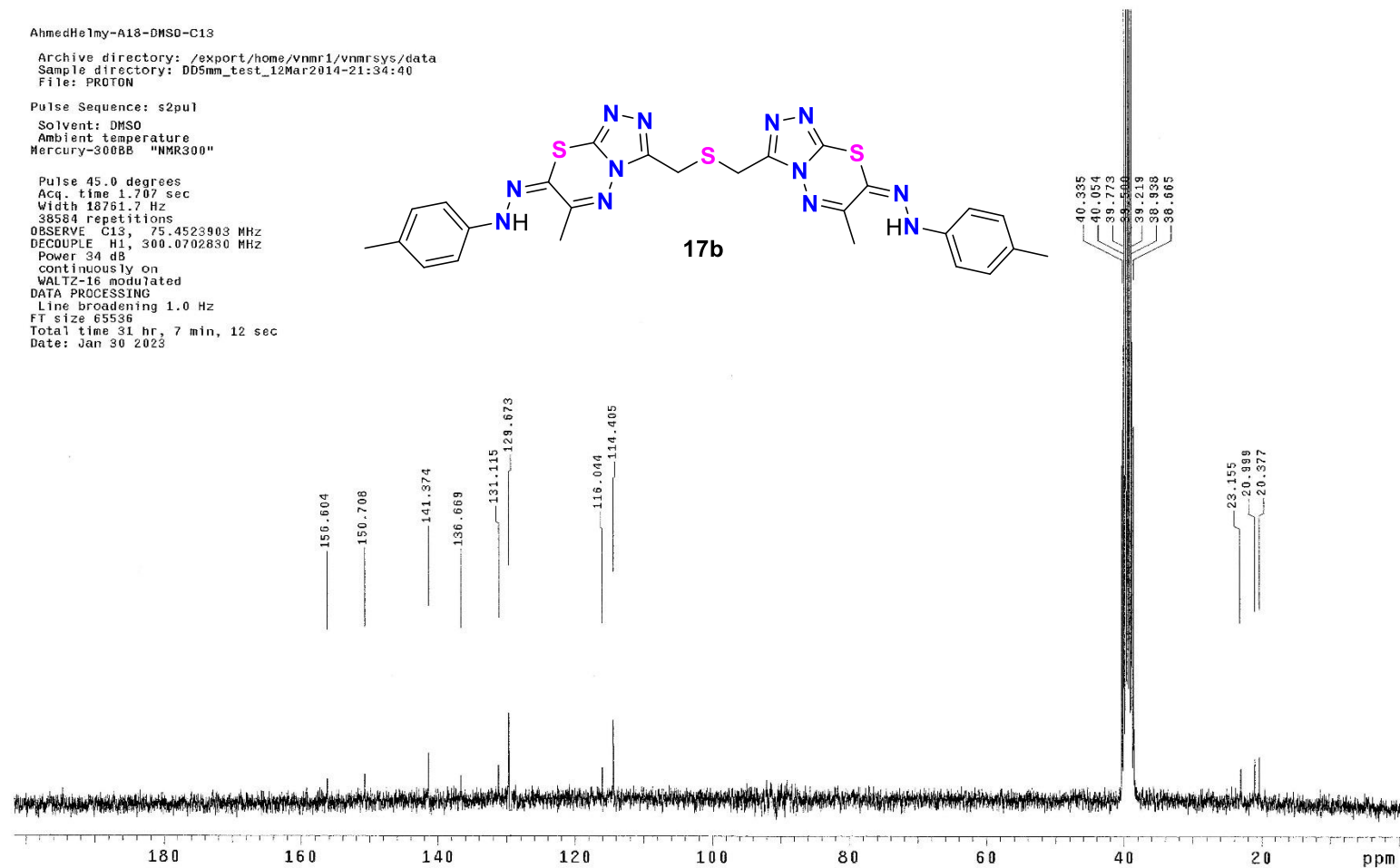
Figure S21: ^1H NMR spectrum of compound 15

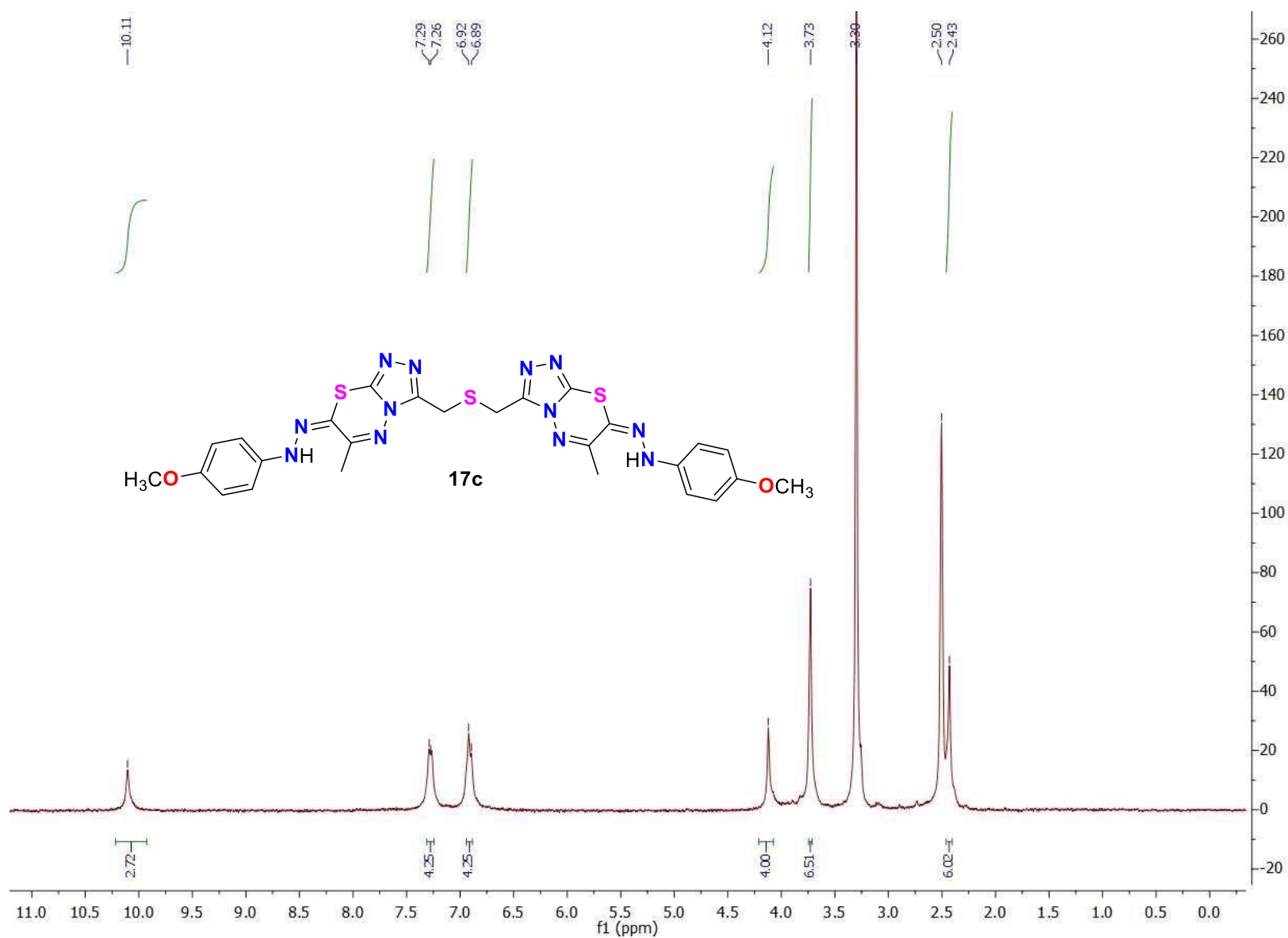
Figure S22: ^{13}C NMR spectrum of compound 15

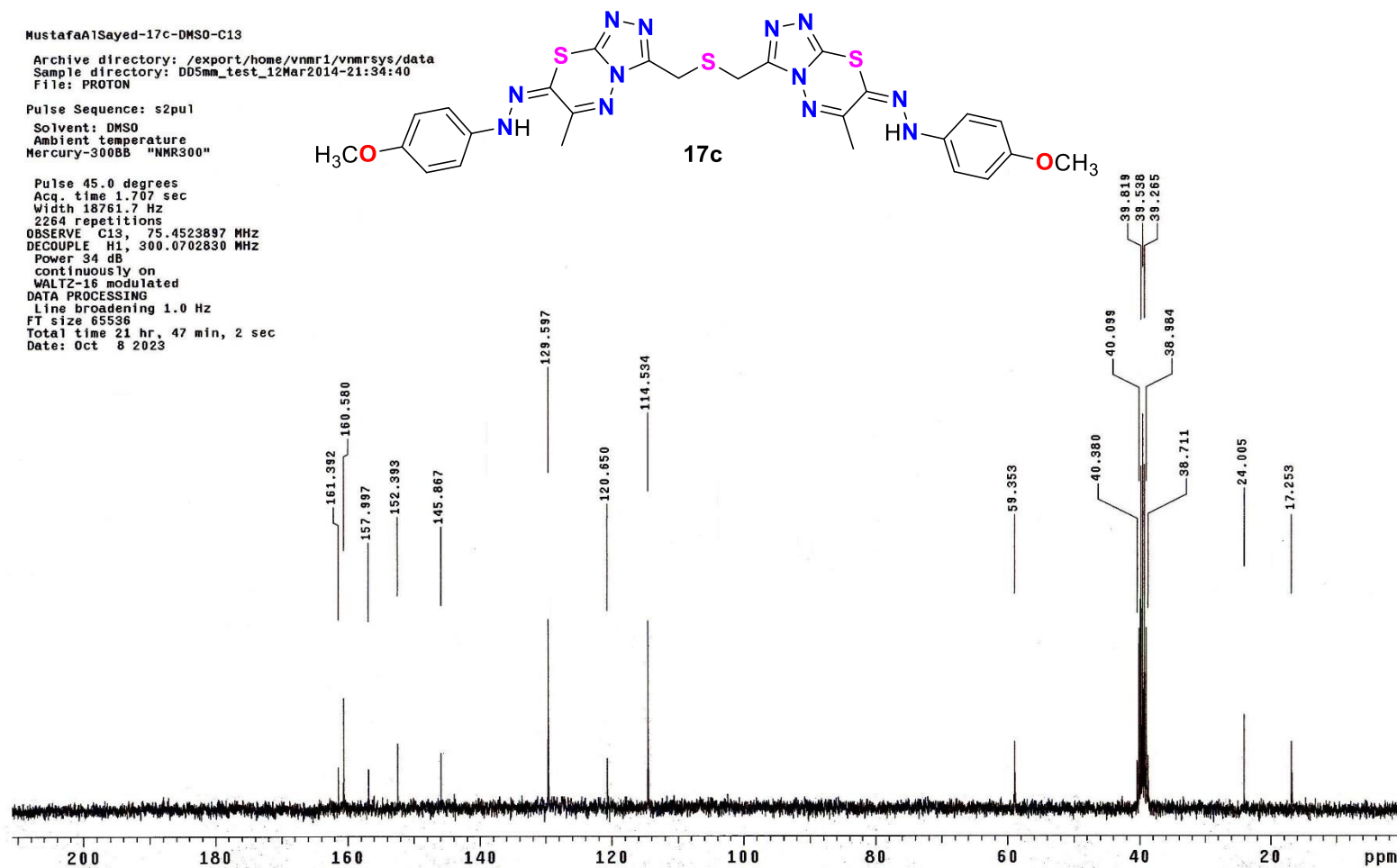
Figure S23: ^1H NMR spectrum of compound 17a

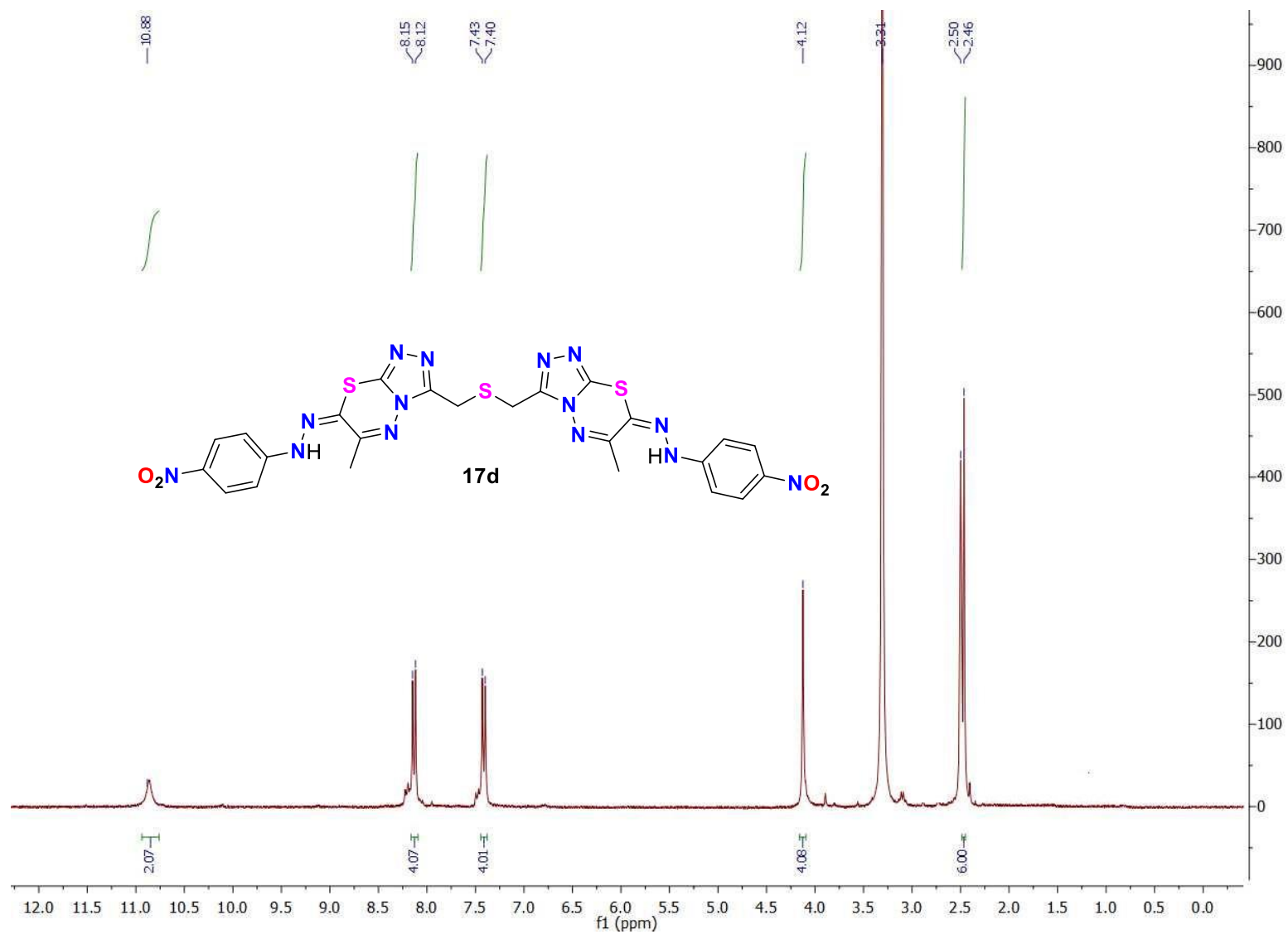
Figure S24: ^{13}C NMR spectrum of compound 17a

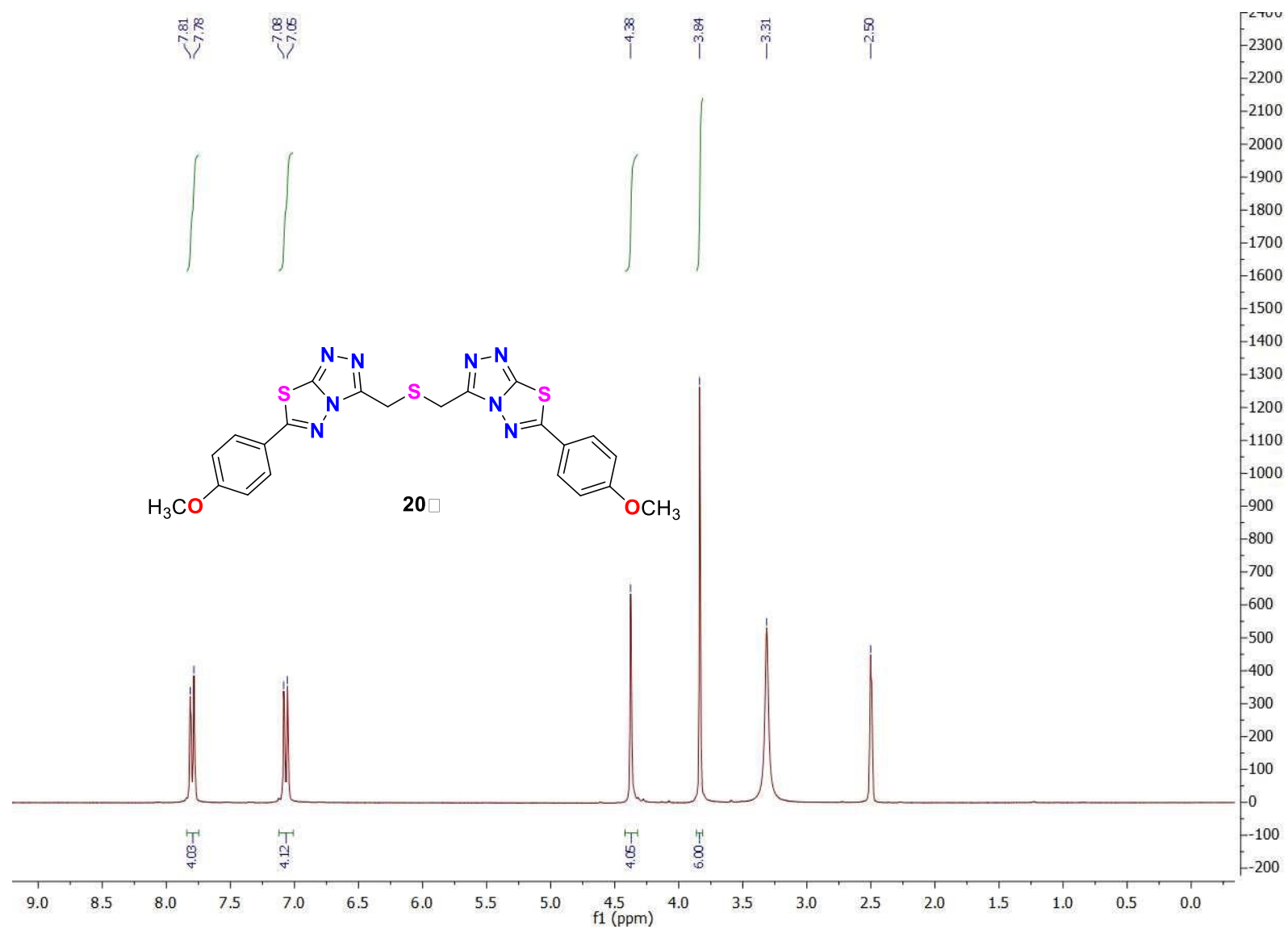
Figure S25: ¹H NMR spectrum of compound 17b

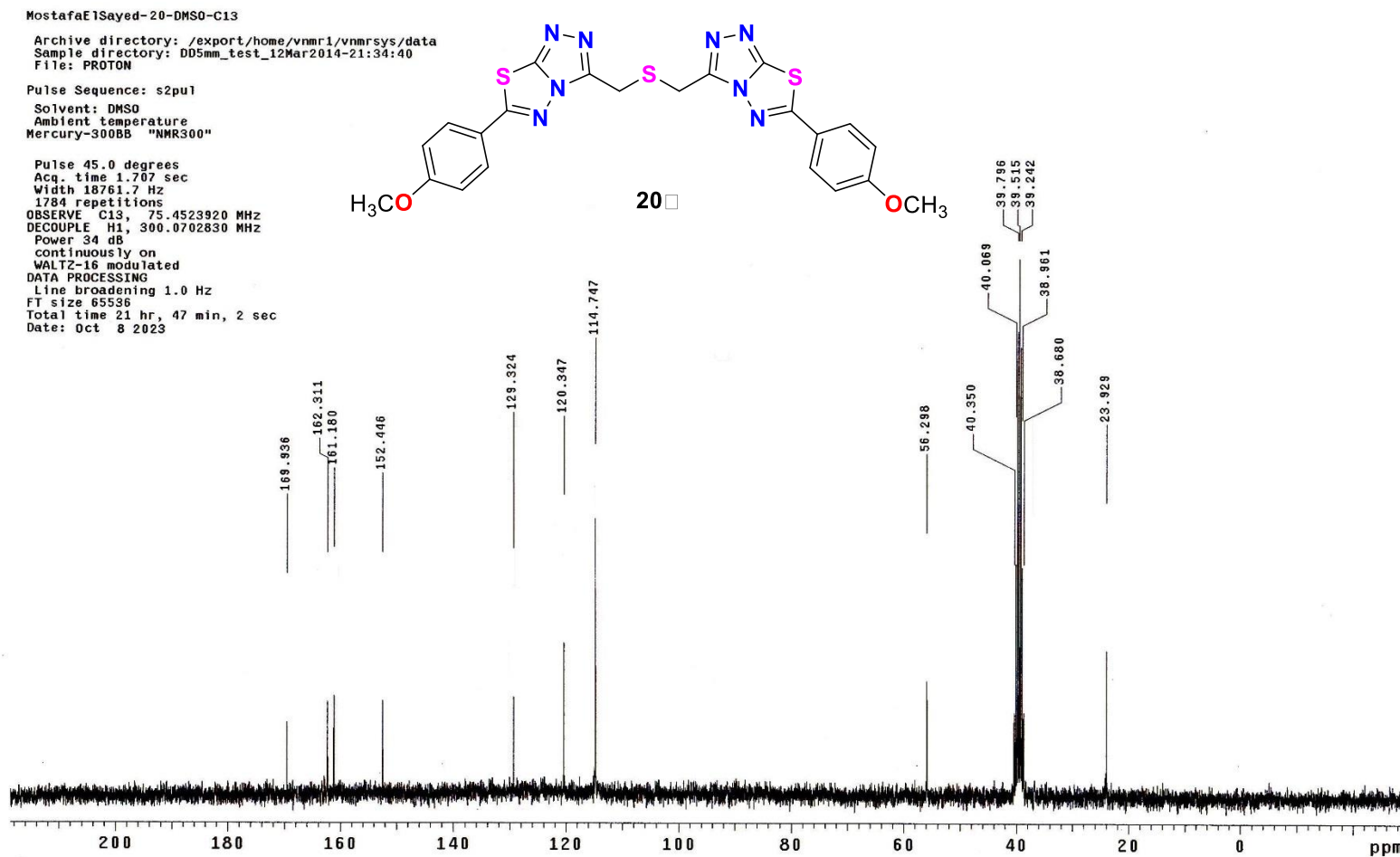
Figure S26: ^{13}C NMR spectrum of compound **17b**

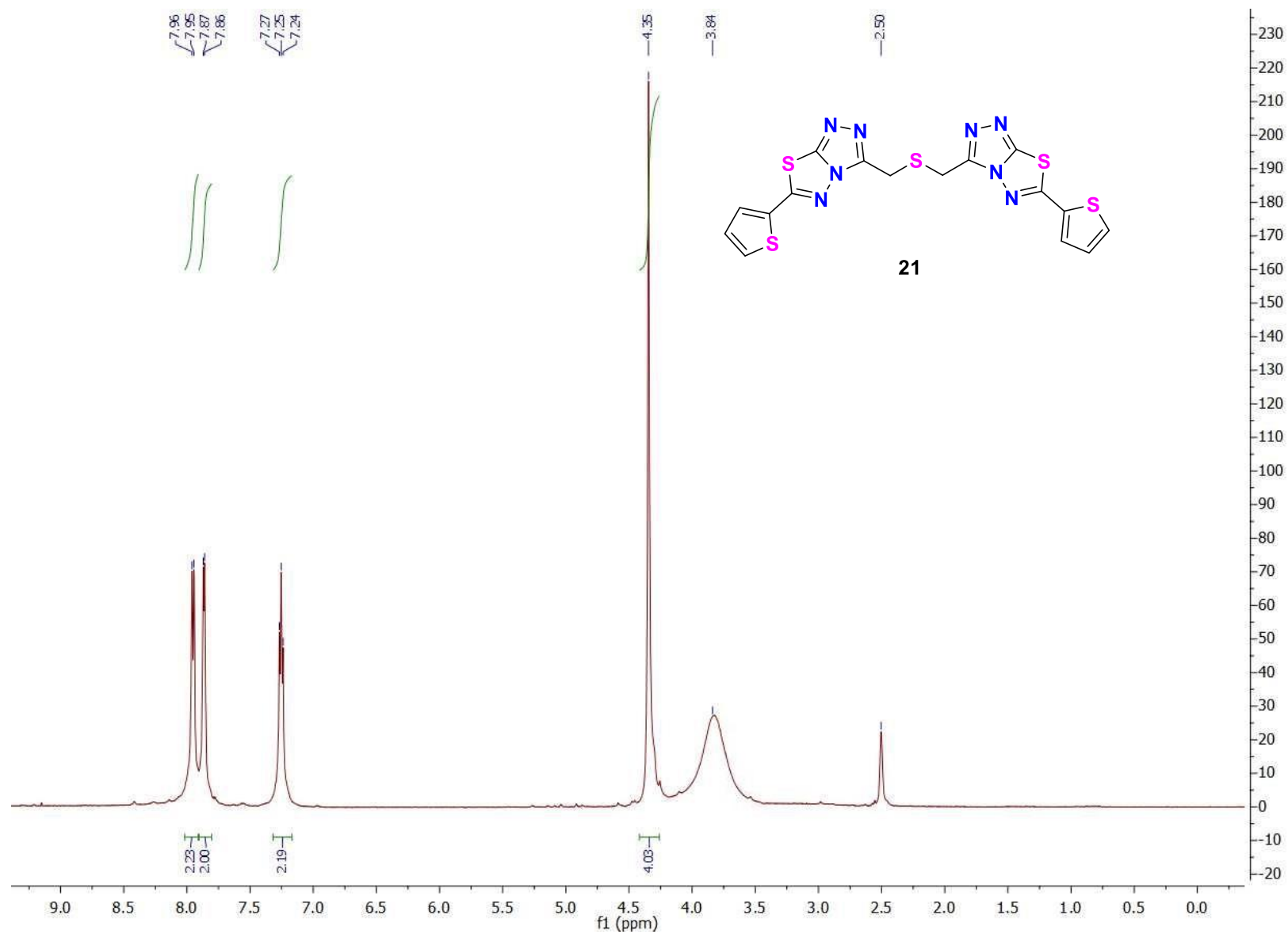
Figure S27: ^1H NMR spectrum of compound 17c

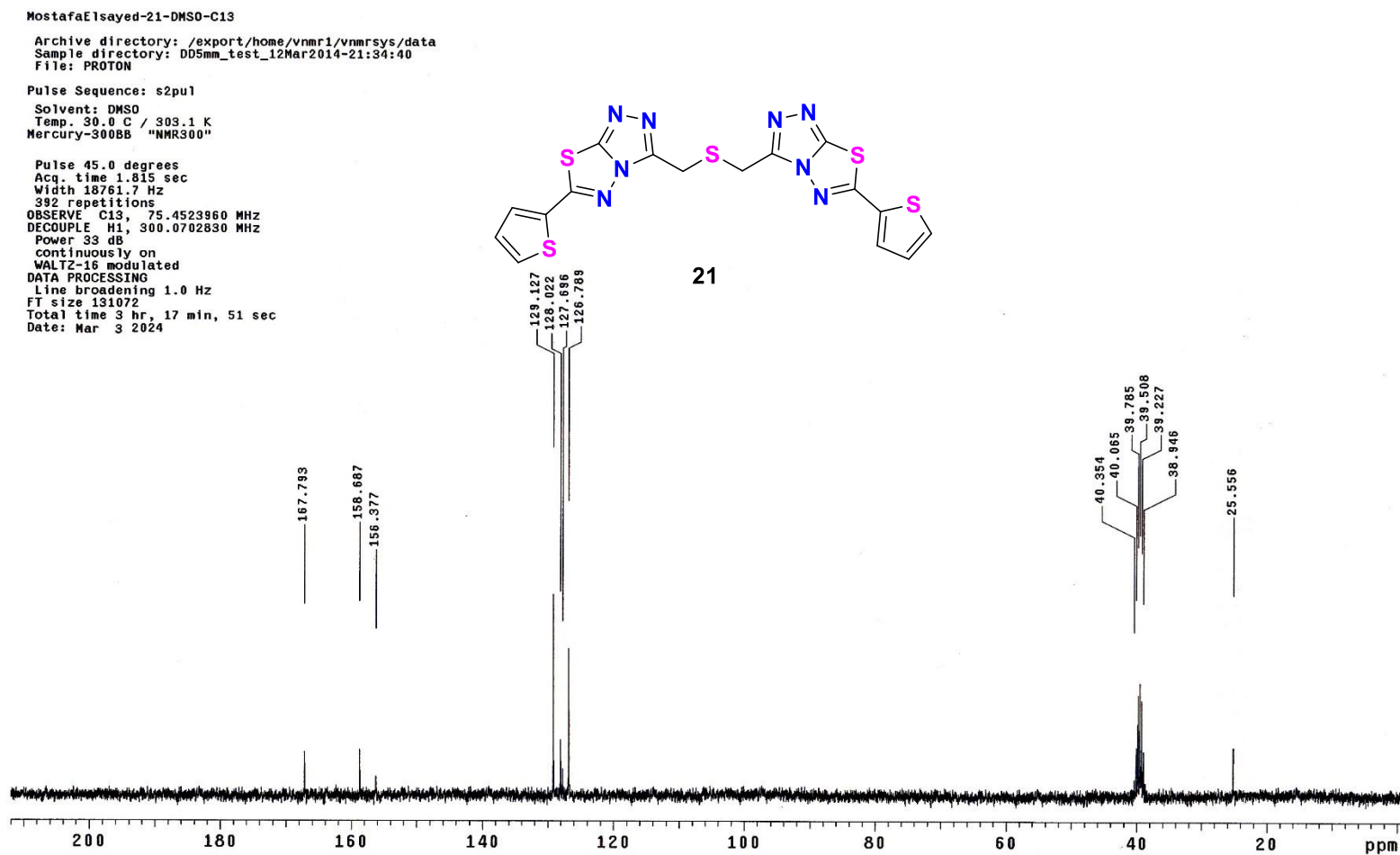
Figure S28: ^{13}C NMR spectrum of compound 17c

Figure S29: ^1H NMR spectrum of compound 17d

Figure S30: ^1H NMR spectrum of compound 20

Figure S31: ^{13}C NMR spectrum of compound 20

Figure S32: ¹H NMR spectrum of compound 21

Figure S33: ^{13}C NMR spectrum of compound 21