

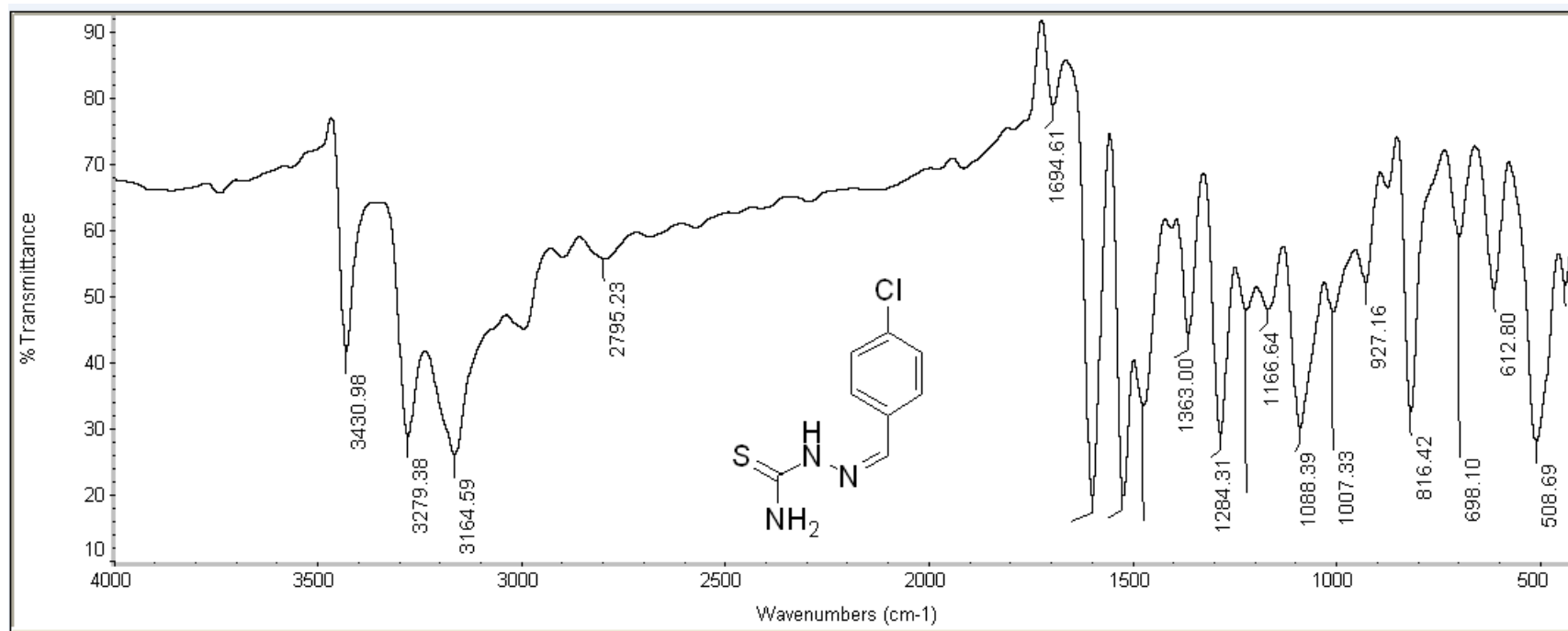


Figure. S1a A: IR spectrum of compound **1a**

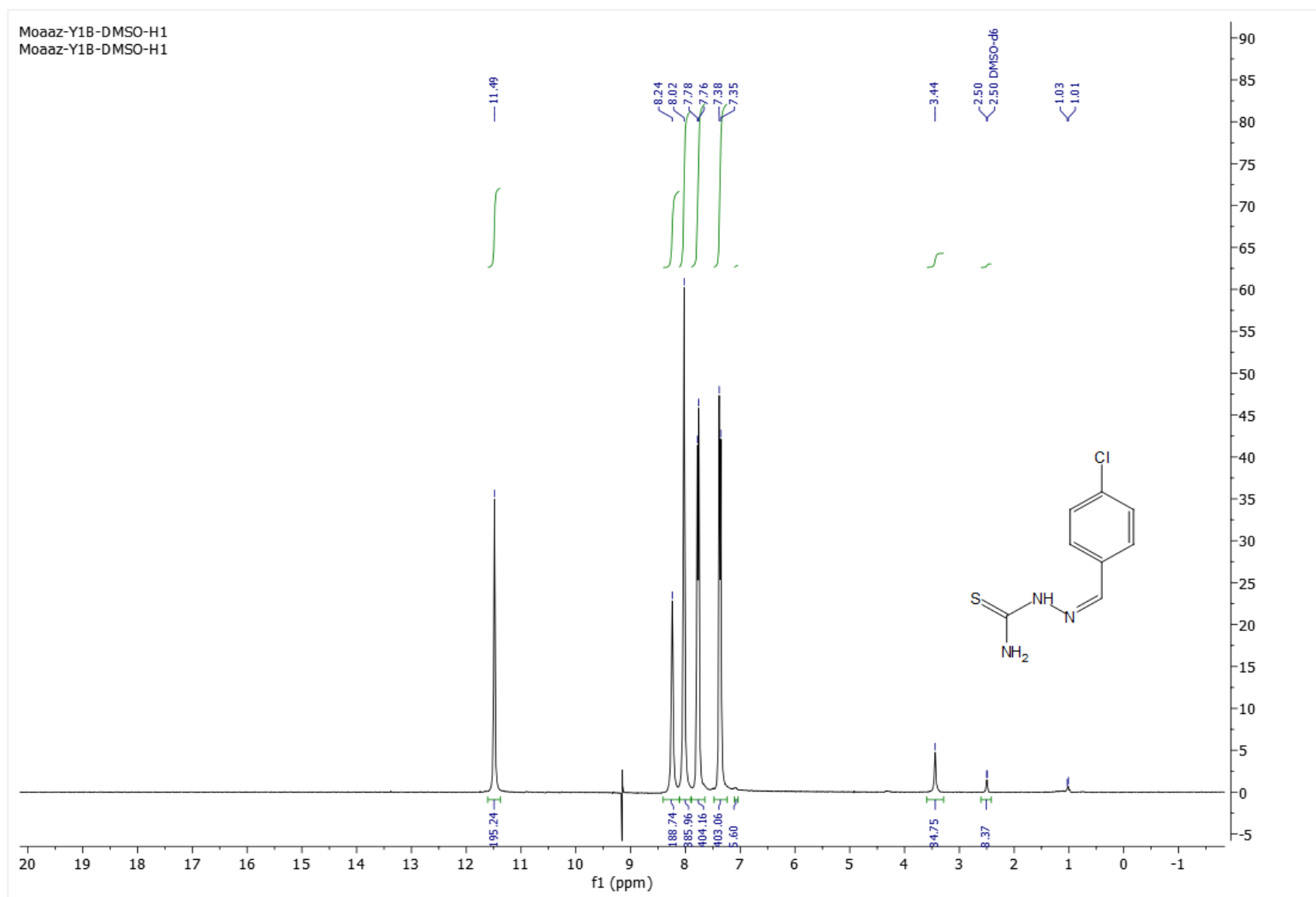


Figure. S1a B: ^1H -NMR spectrum of compound **1a**

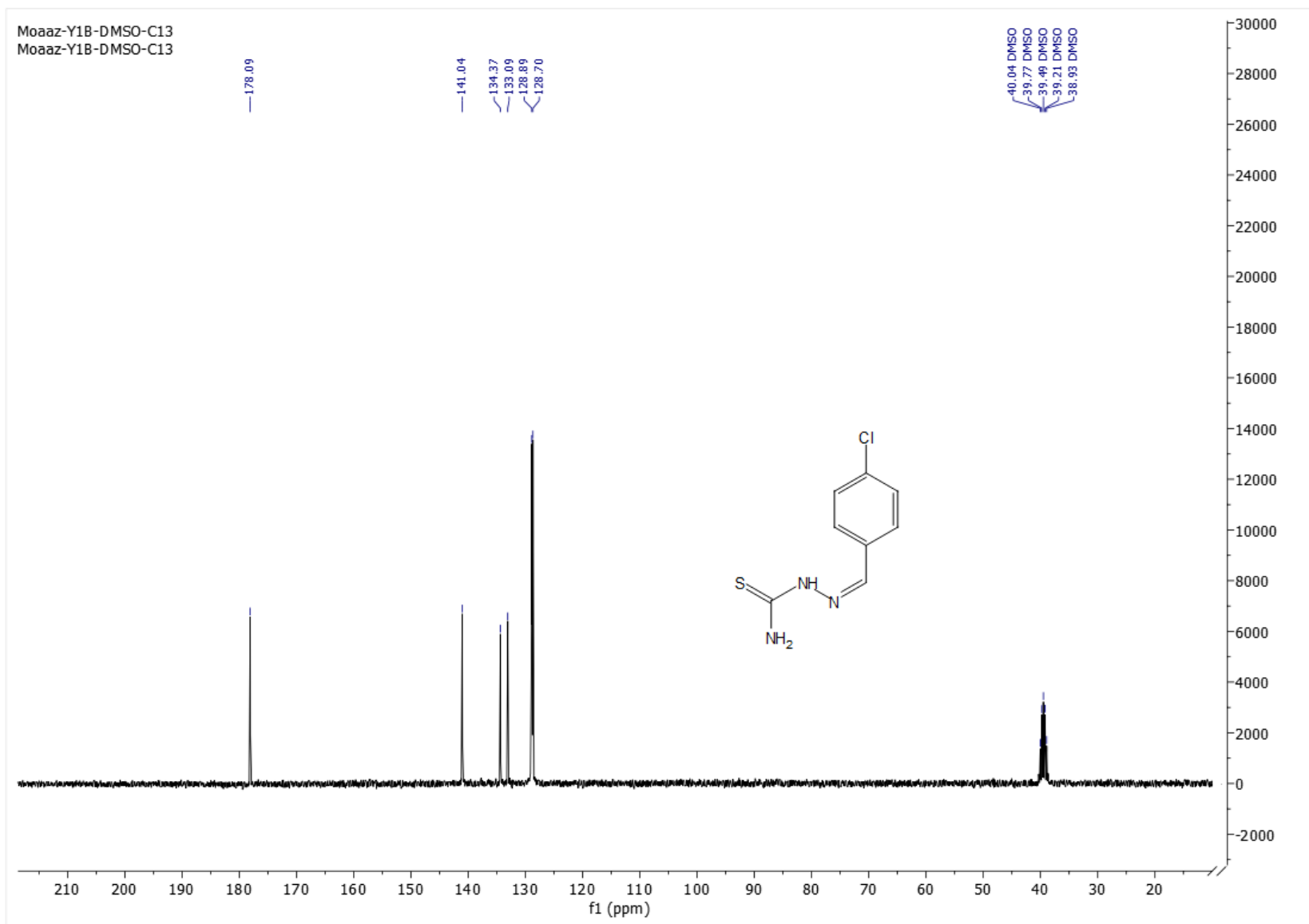


Figure. S1a C: ^{13}C -NMR spectrum of compound **1a**

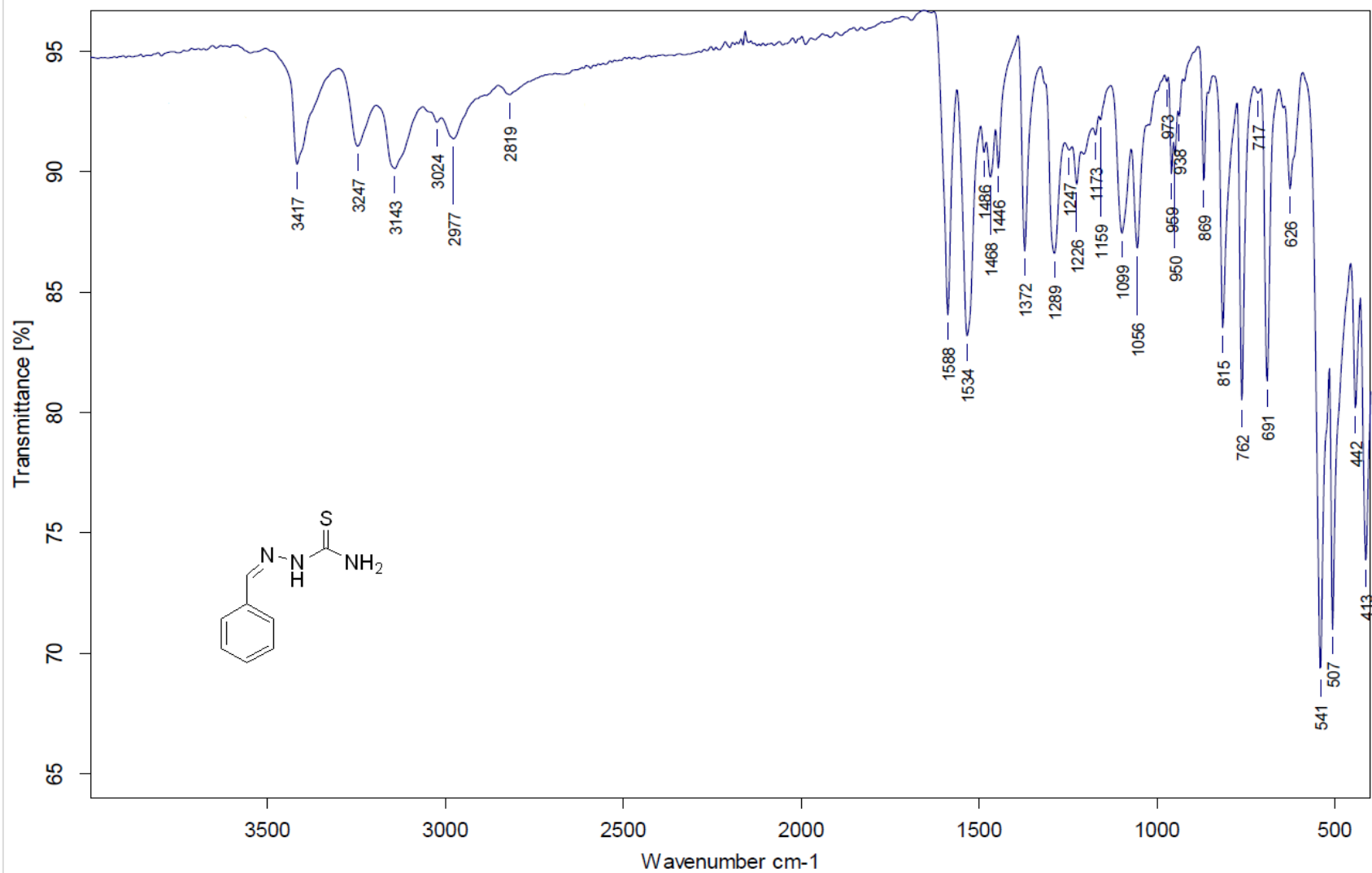


Figure. S1b A: IR spectrum of compound **1b**

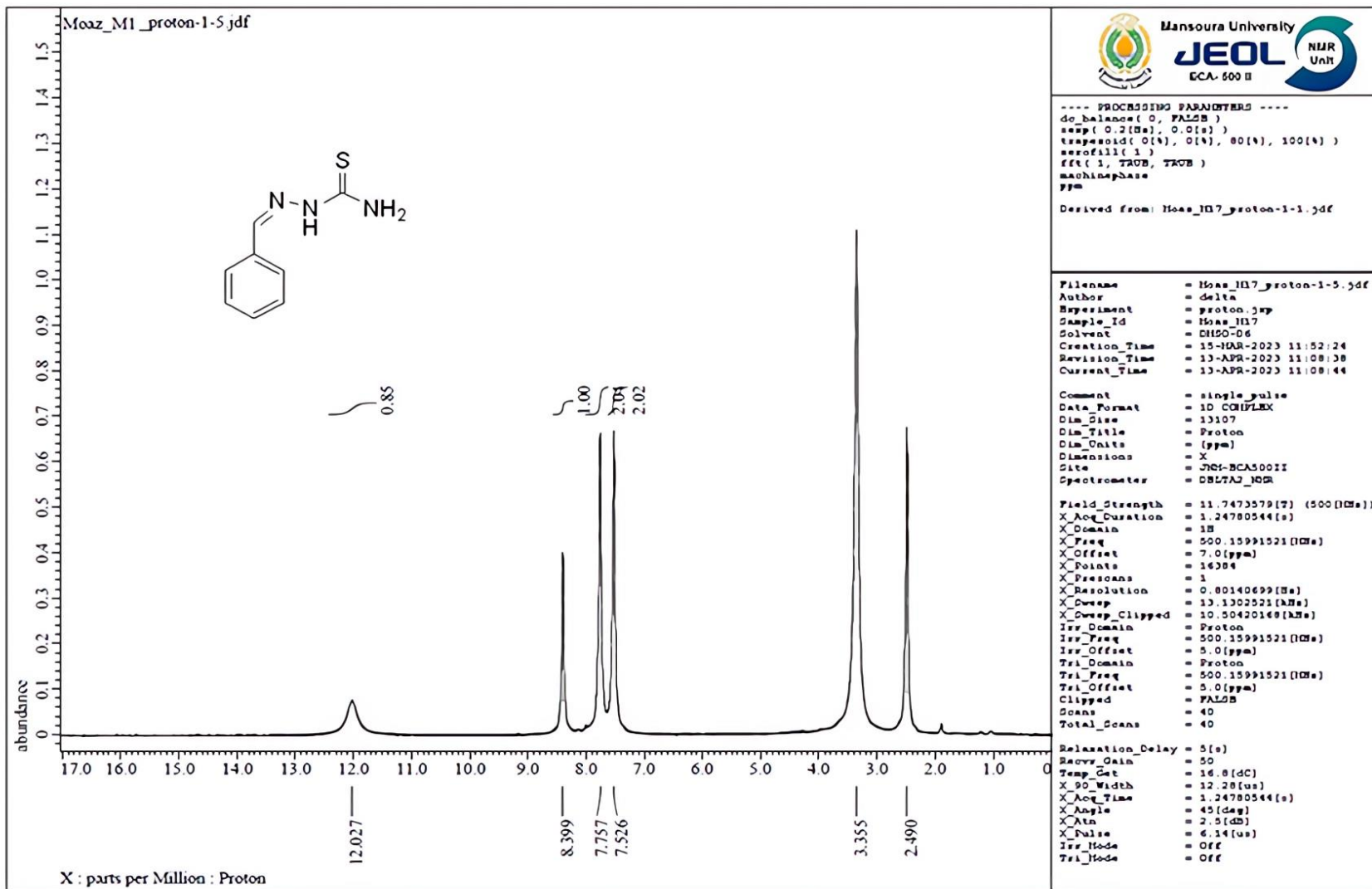


Figure. S1b B: ^1H -NMR spectrum of compound **1b**

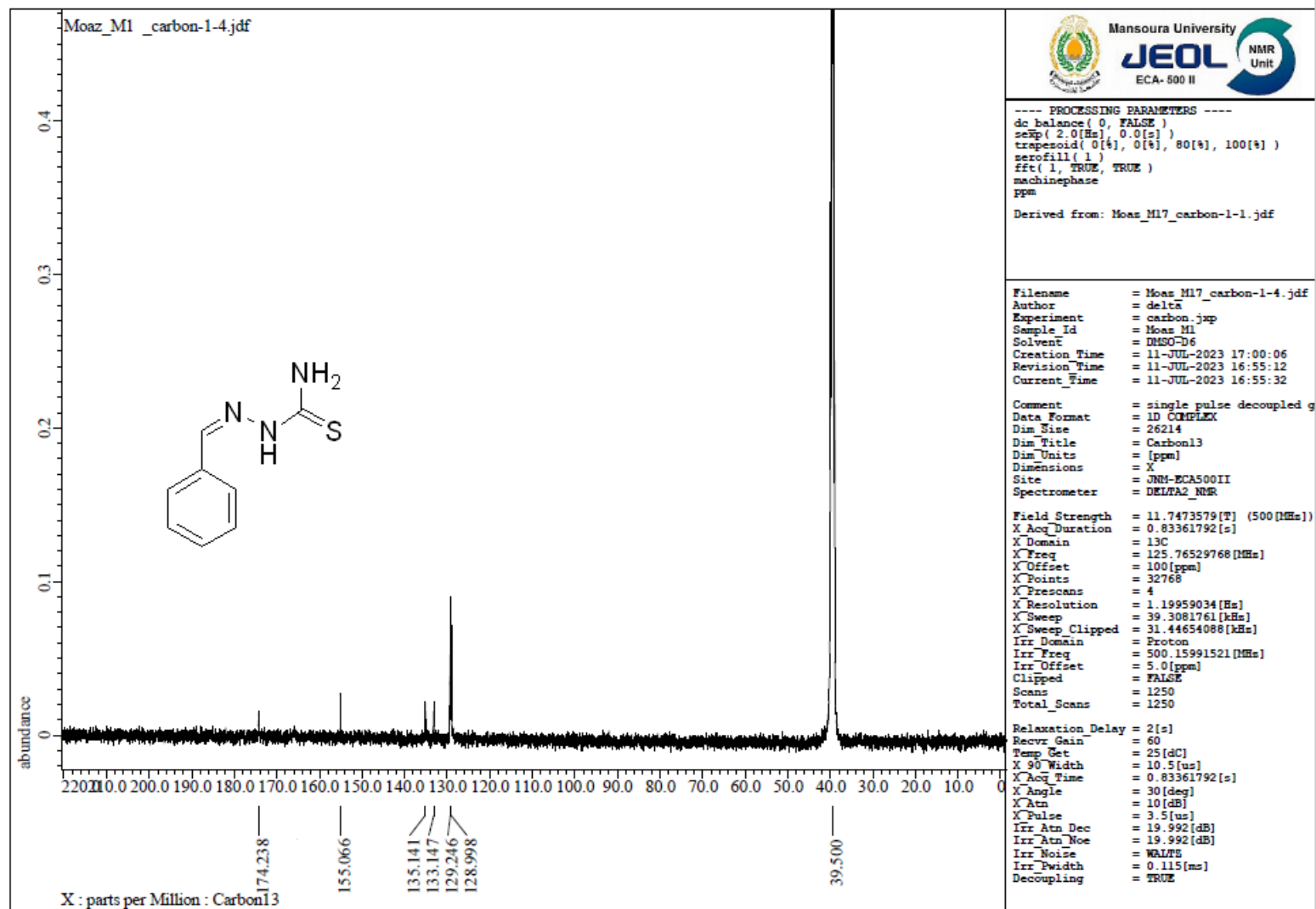


Figure. S1b C: ^{13}C -NMR spectrum of compound **1b**

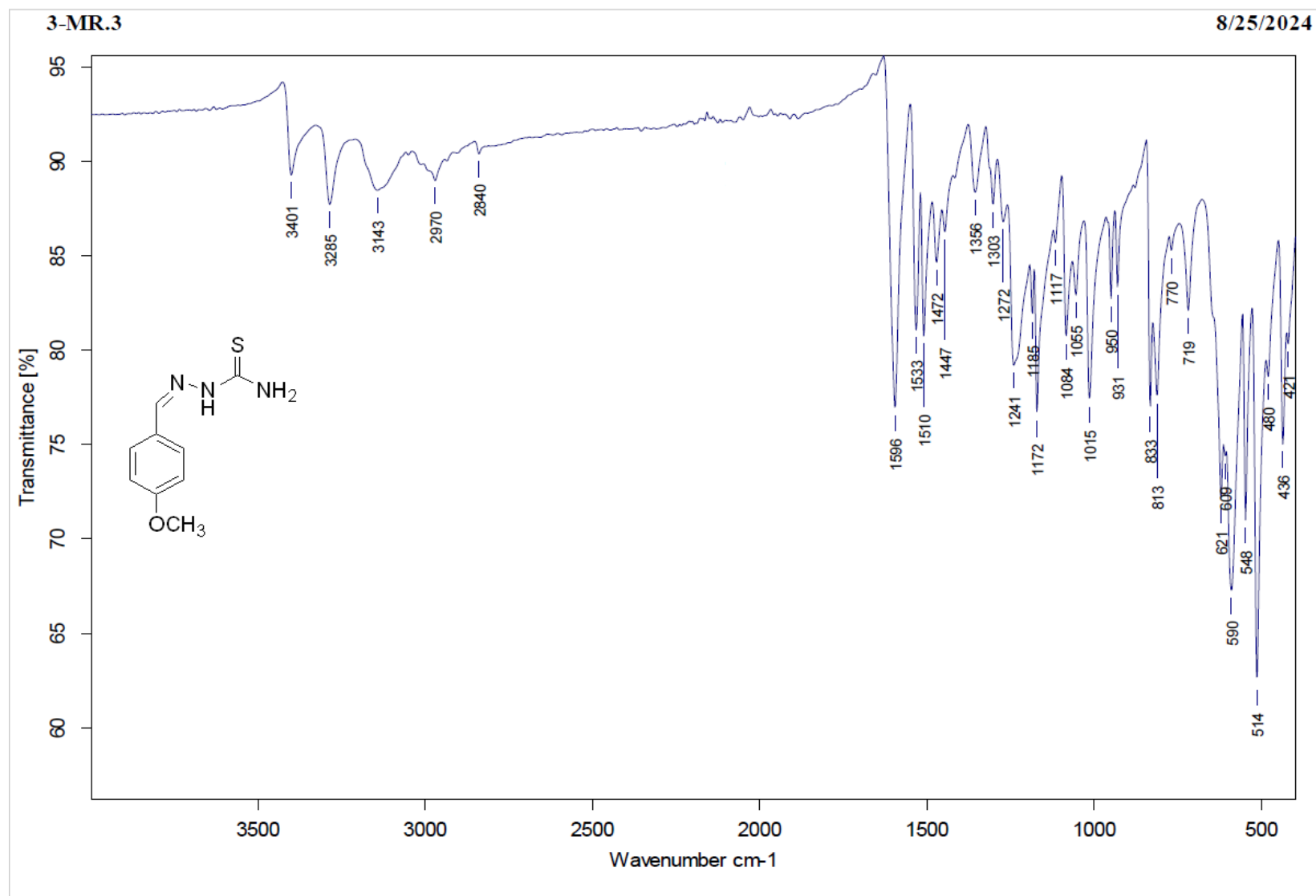


Figure. S1c A: IR spectrum of compound 1c

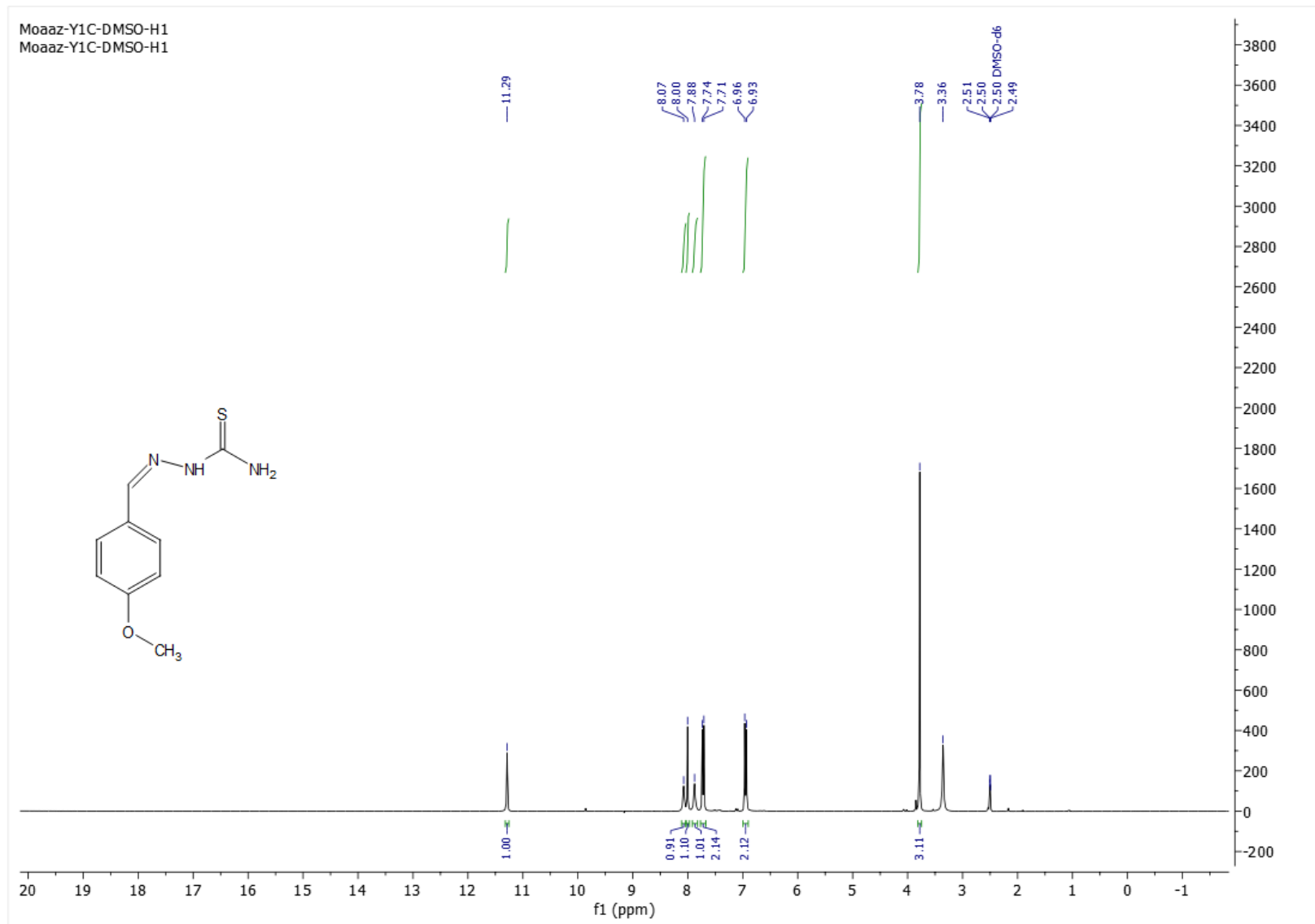


Figure. S1c B: ¹H-NMR spectrum of compound **1c**

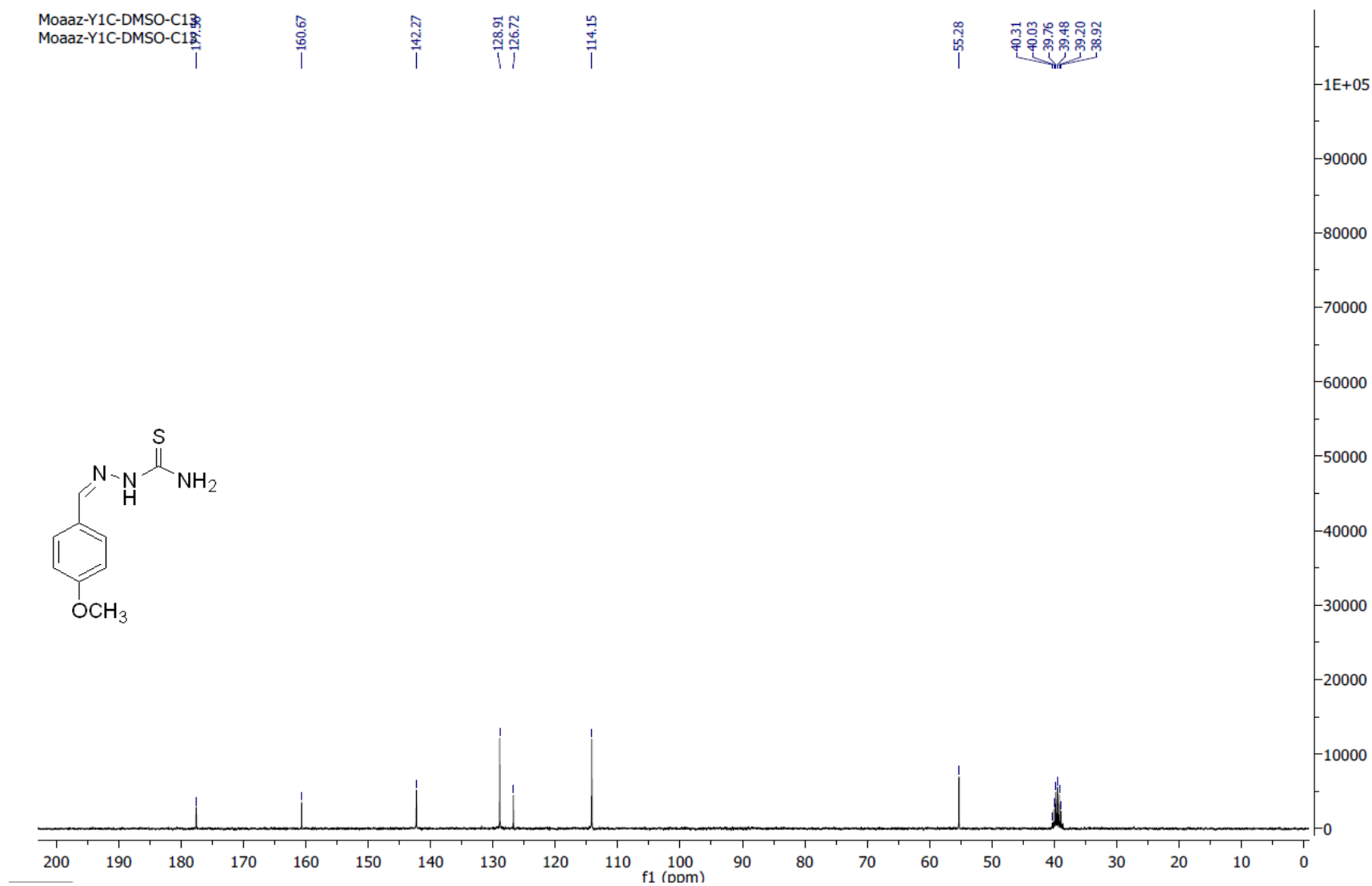


Figure. S1c C: ¹³C-NMR spectrum of compound **1c**

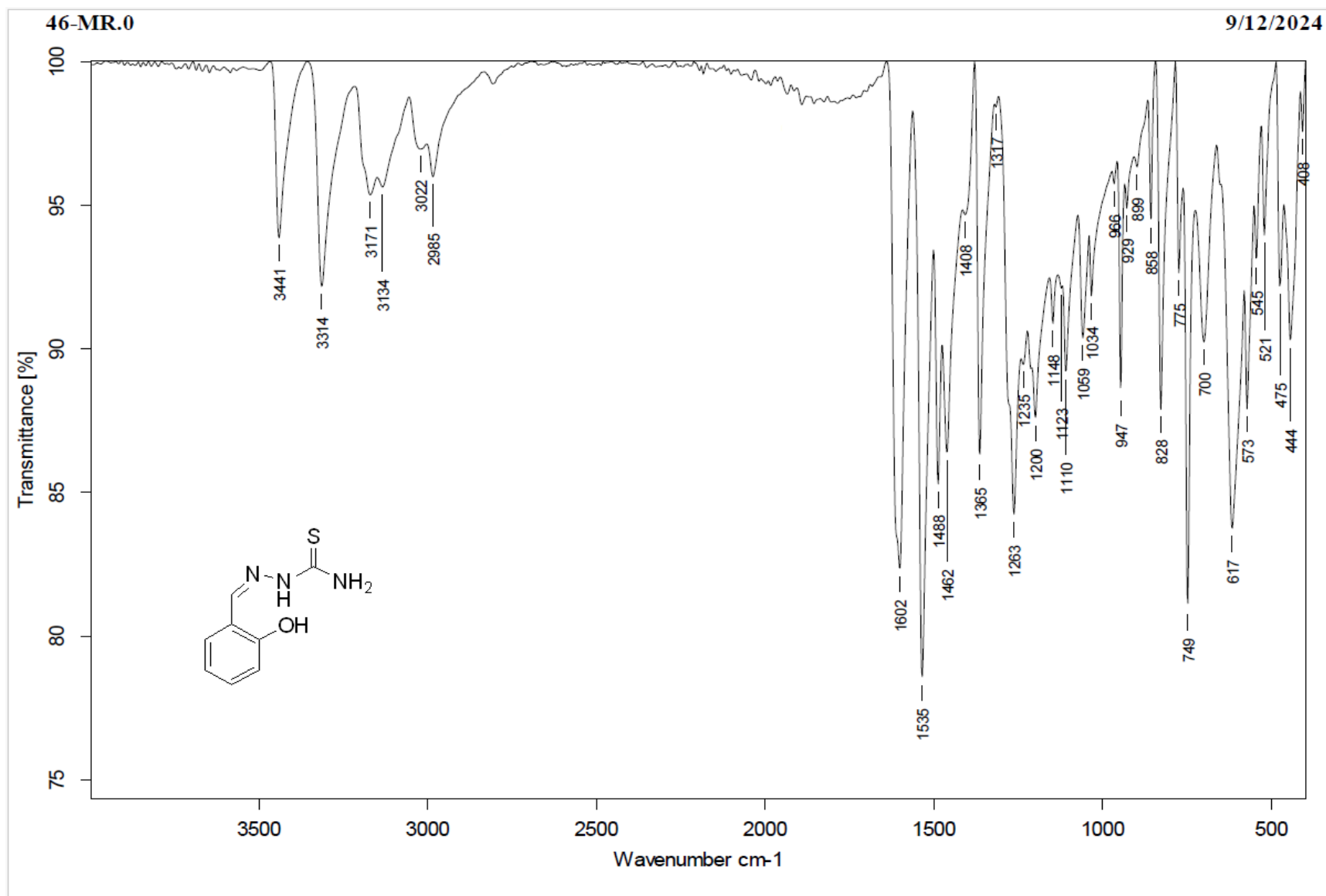


Figure. S1d A: IR spectrum of compound 1d

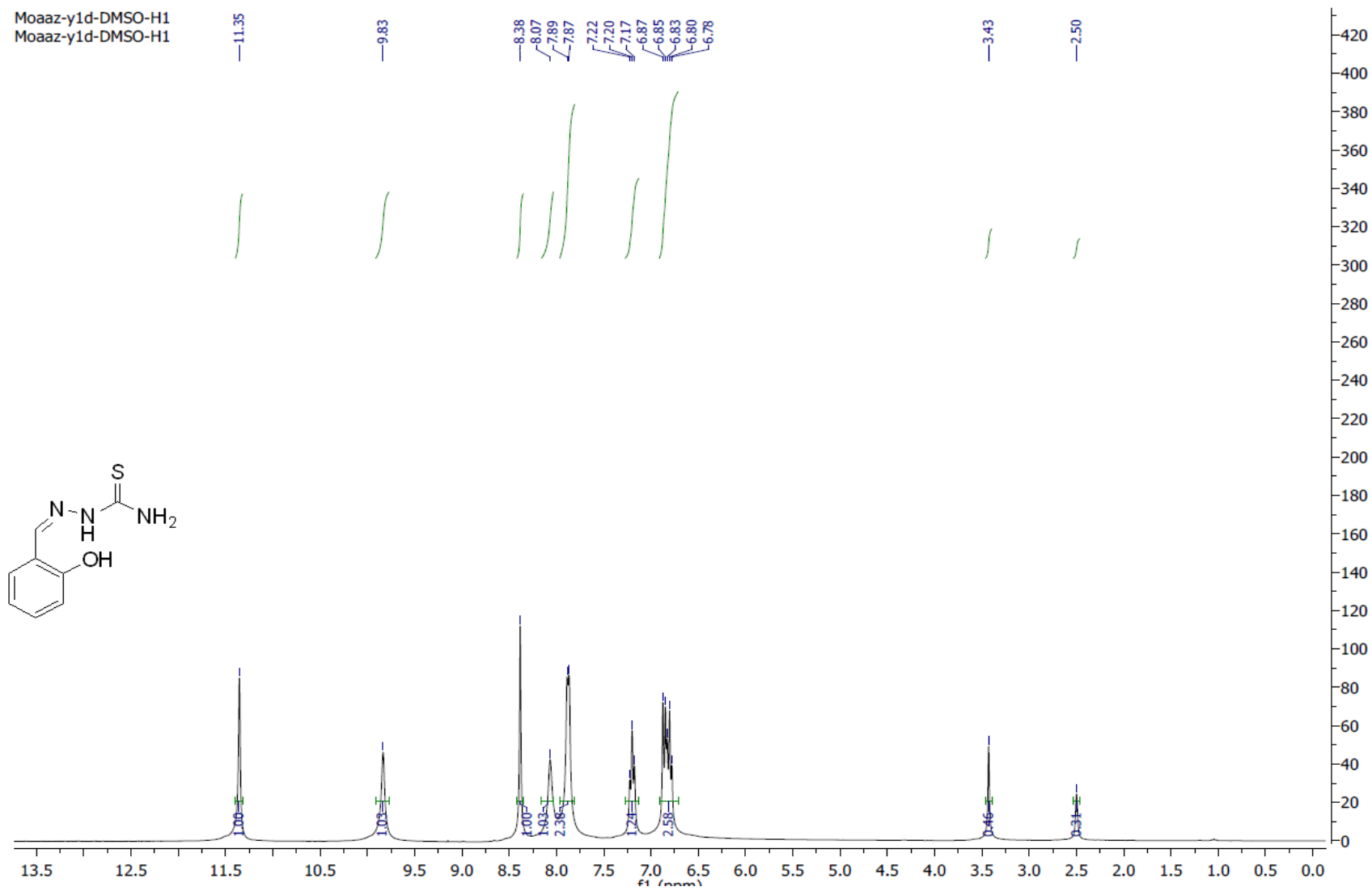


Figure. S1d B: ^1H -NMR spectrum of compound **1d**

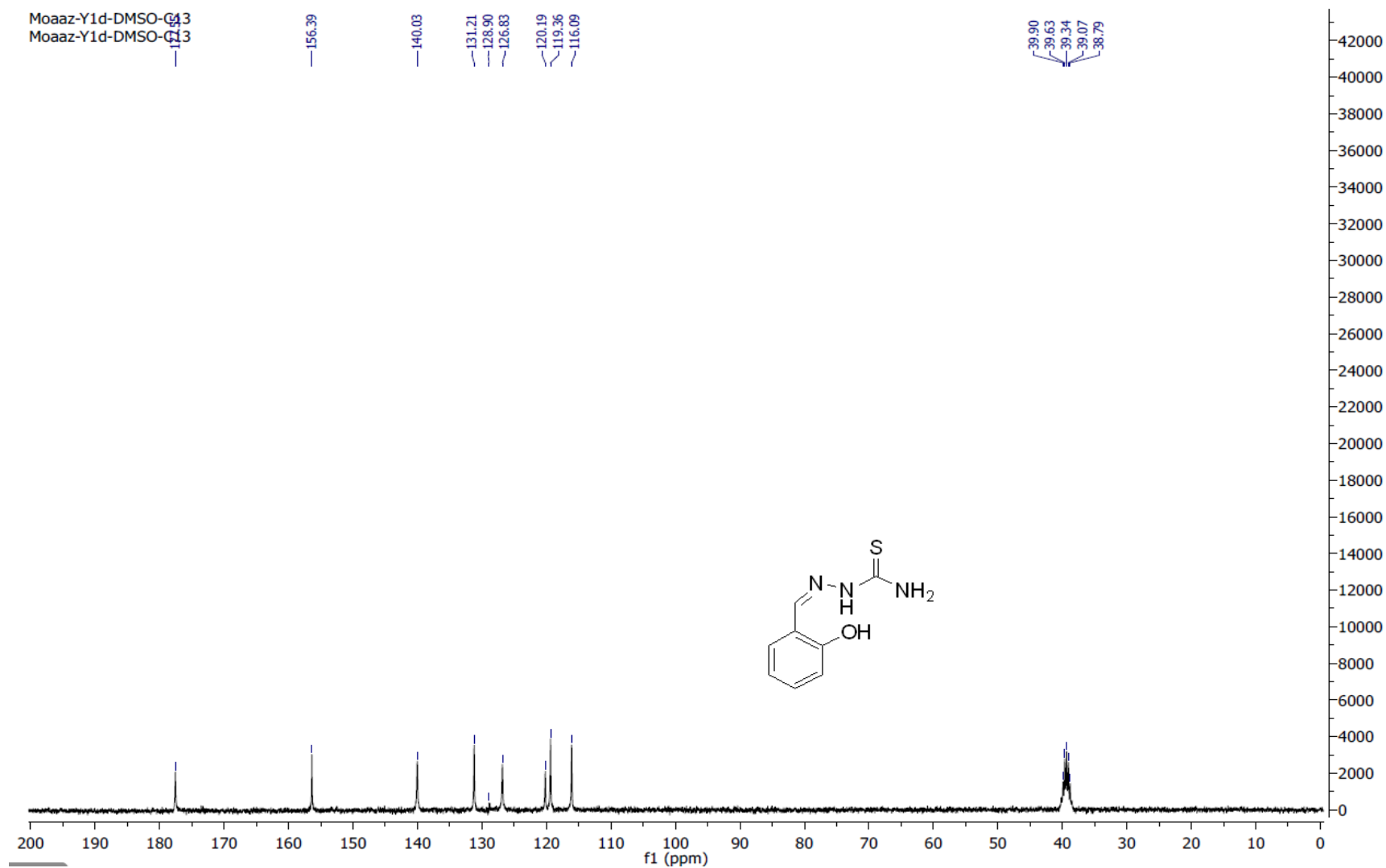


Figure. S1d C: ^{13}C -NMR spectrum of compound **1d**

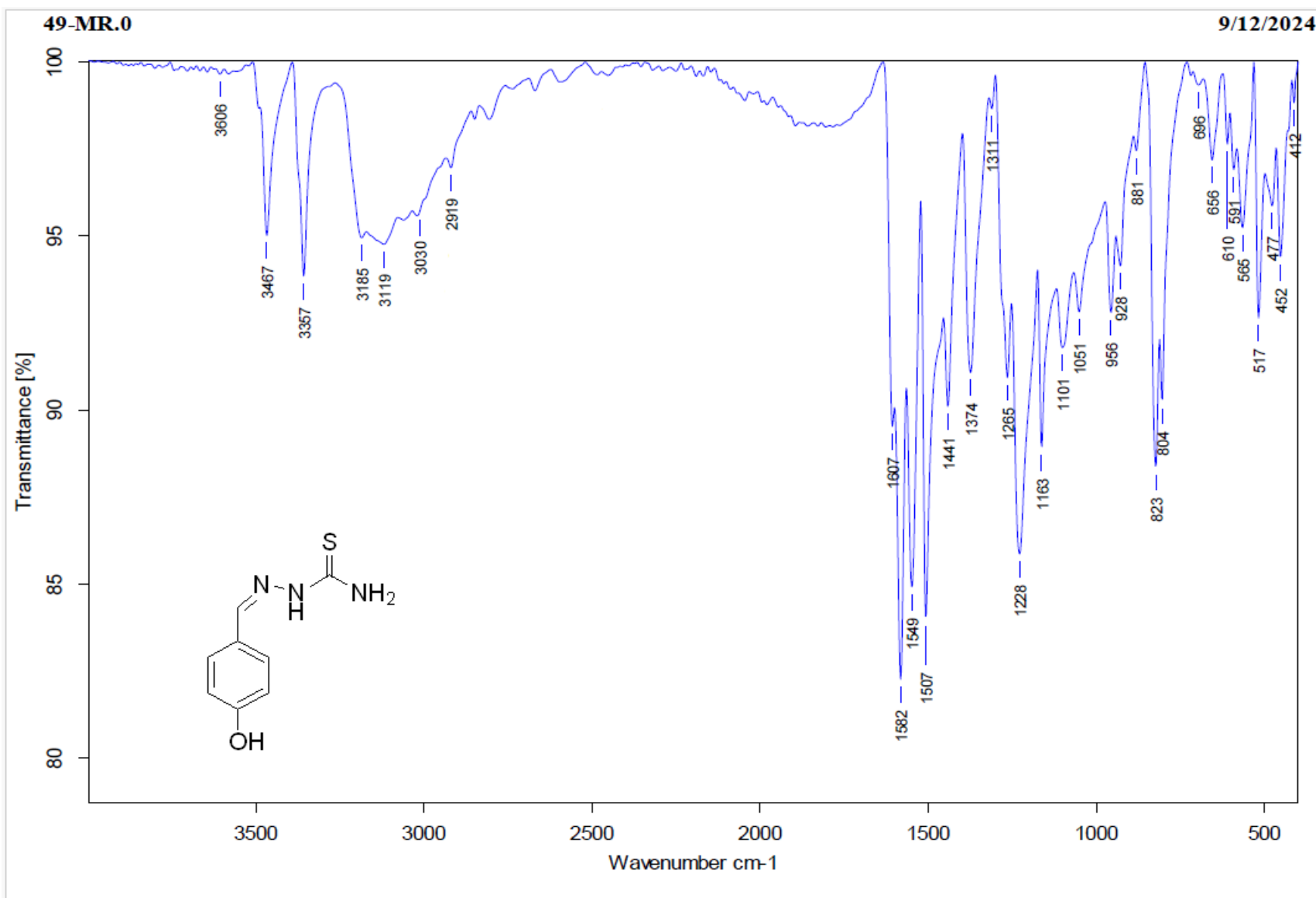


Figure. S1e A: IR spectrum of compound 1e

Moaaz-9-DMSO-H1
Moaaz-9-DMSO-H1

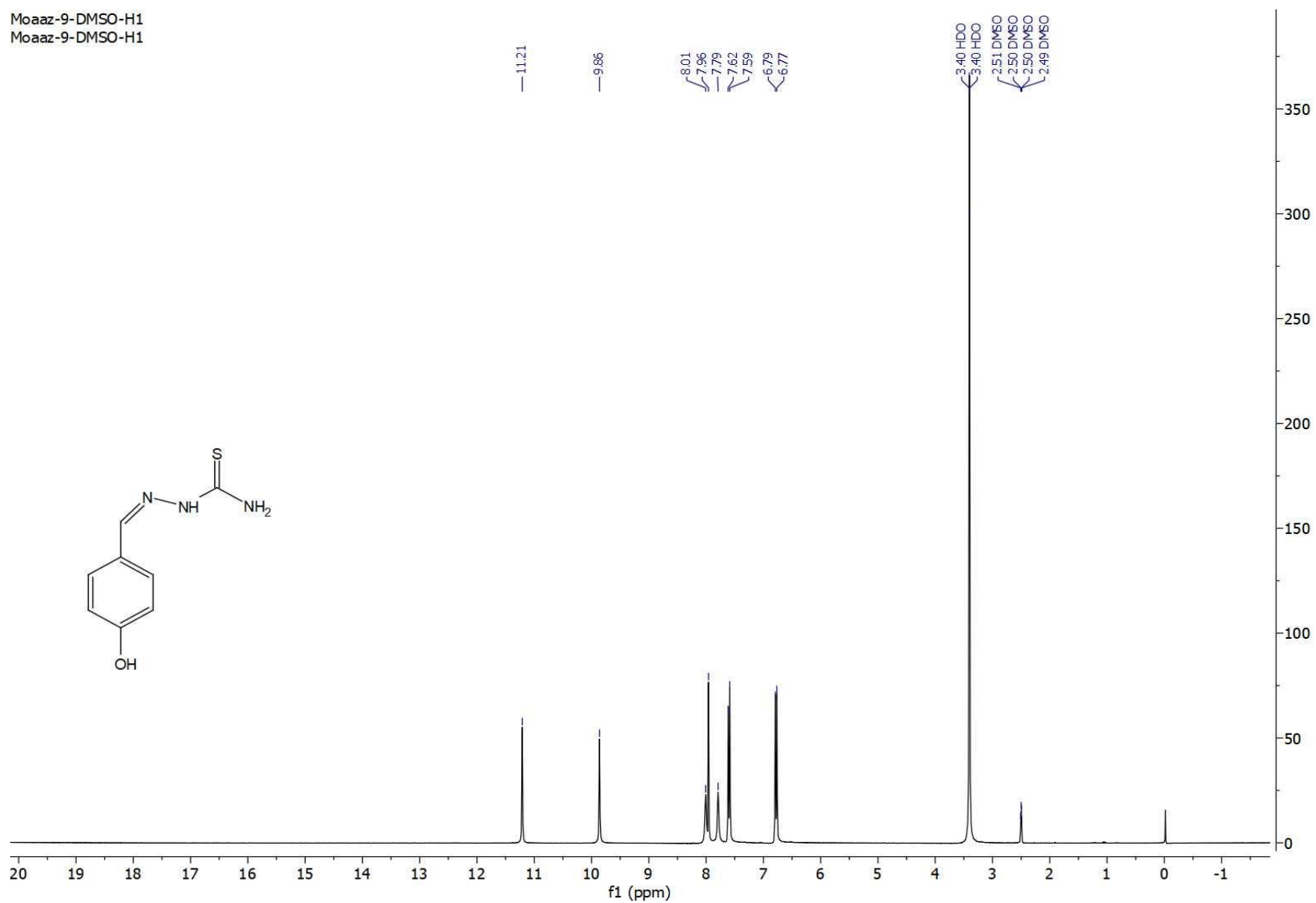


Figure. S1e B: ¹H-NMR spectrum of compound **1e**

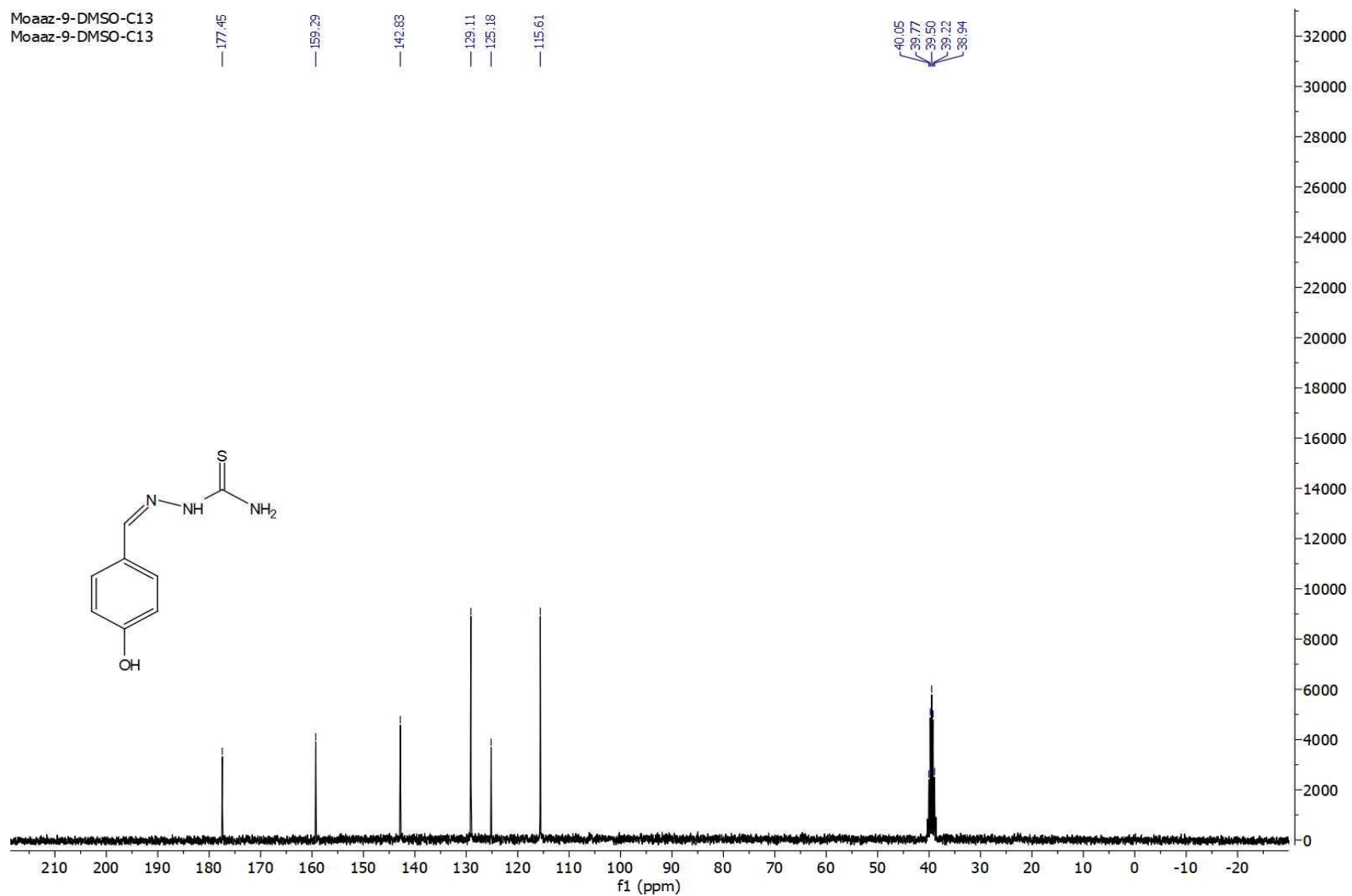


Figure. S1e C: ^{13}C -NMR spectrum of compound **1e**

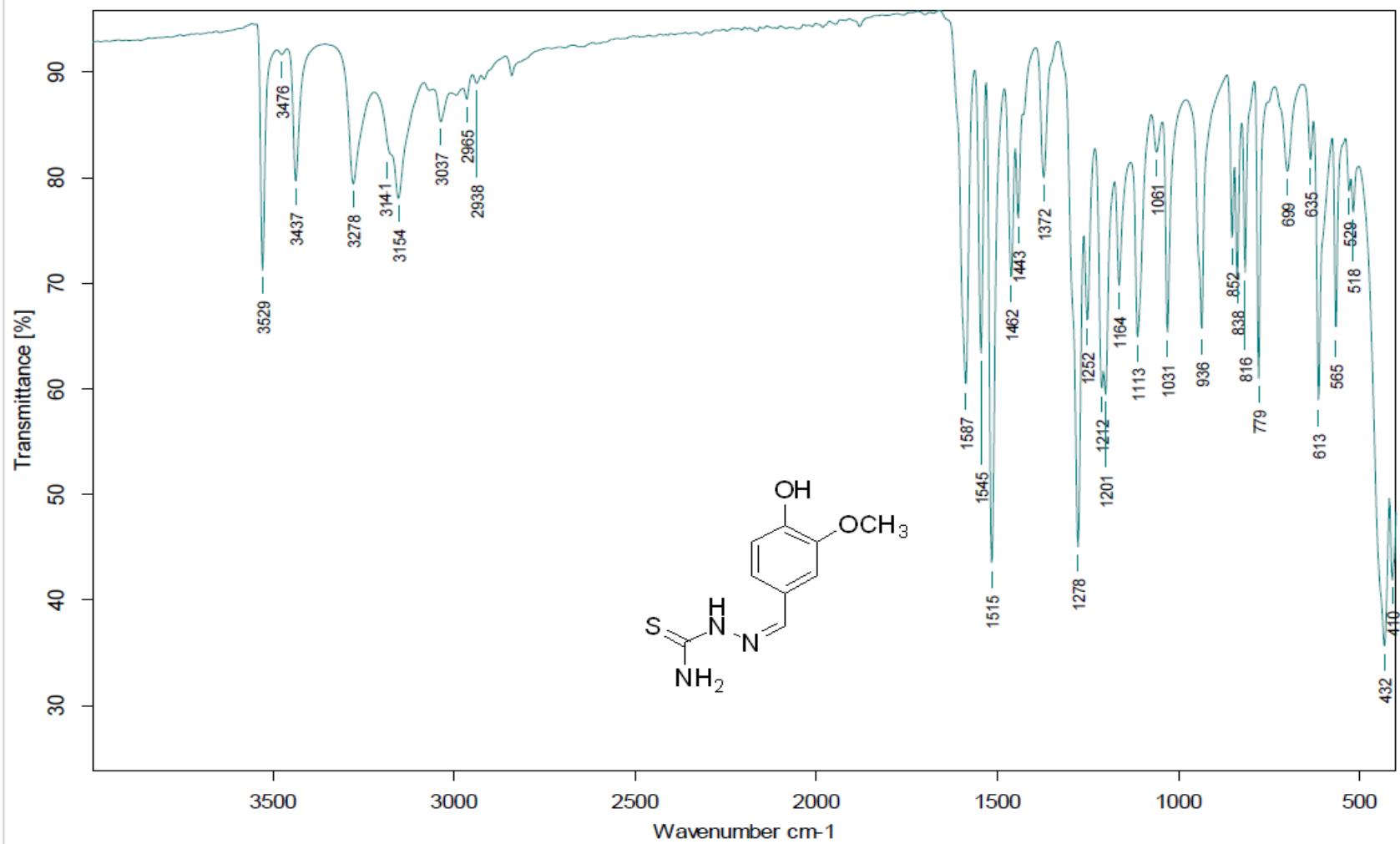


Figure. S1f A: IR spectrum of compound **1f**

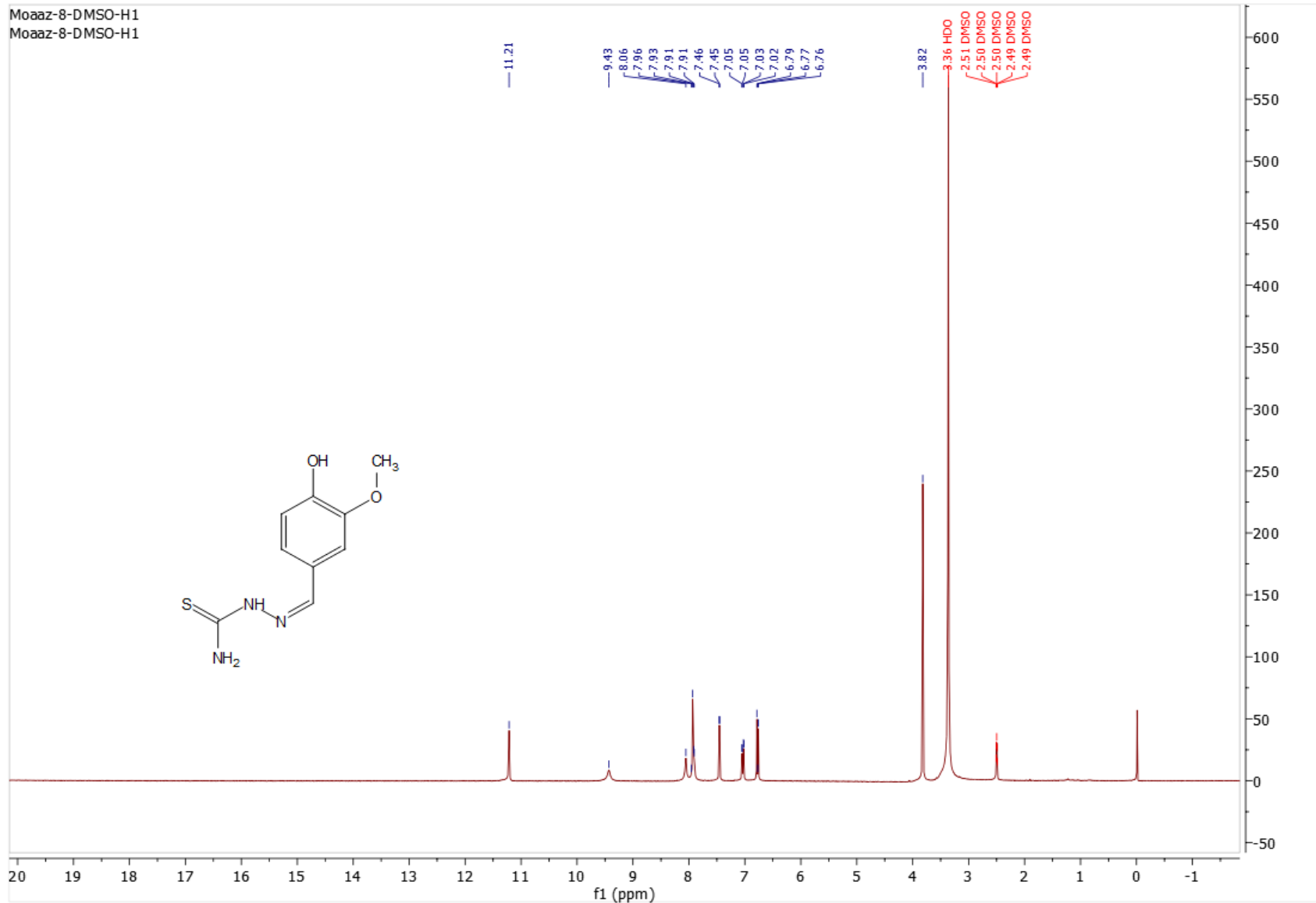


Figure. S1fB: ¹H-NMR spectrum of compound **1f**

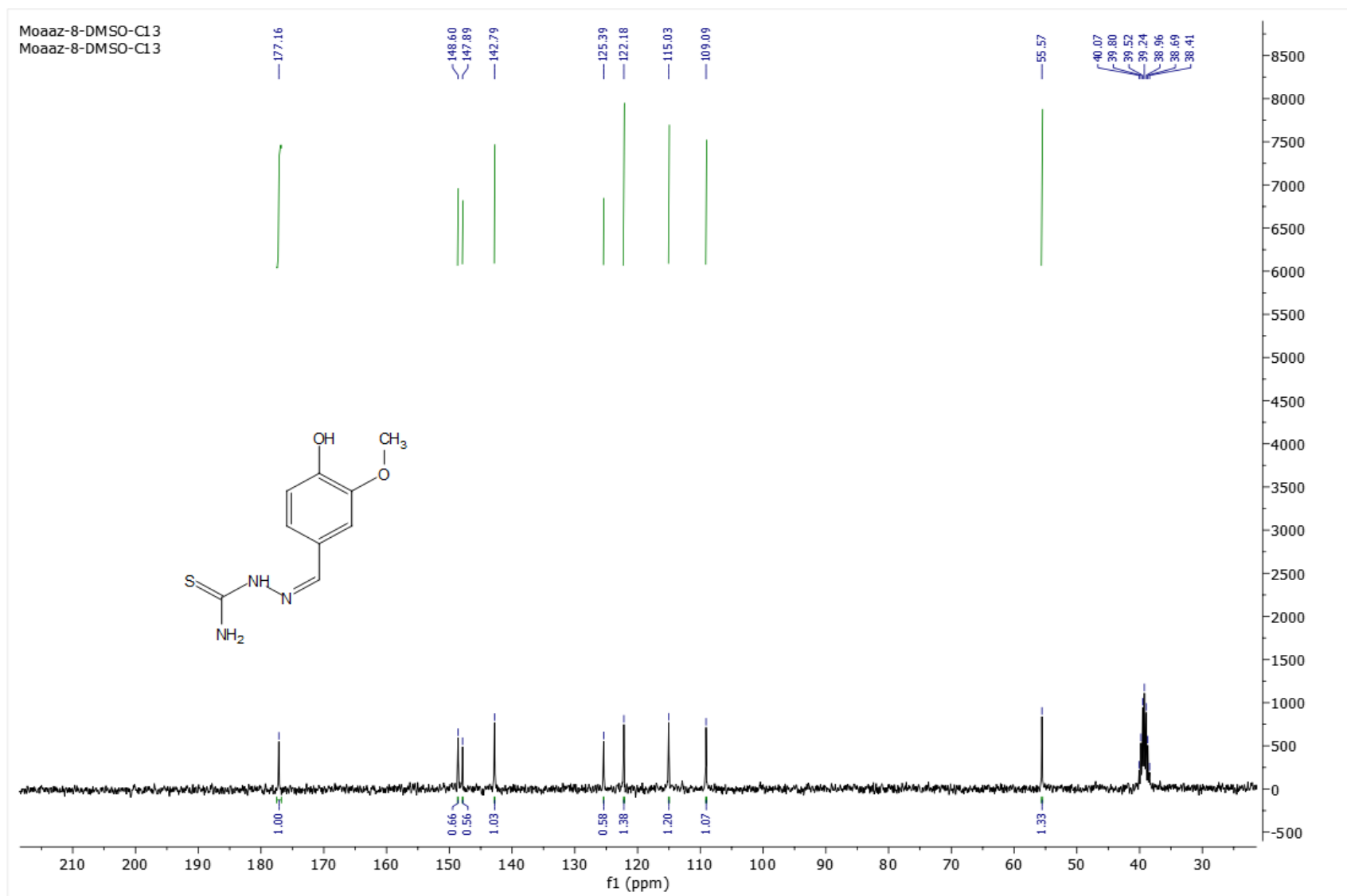


Figure. S1fC: ¹³C-NMR spectrum of compound **1f**

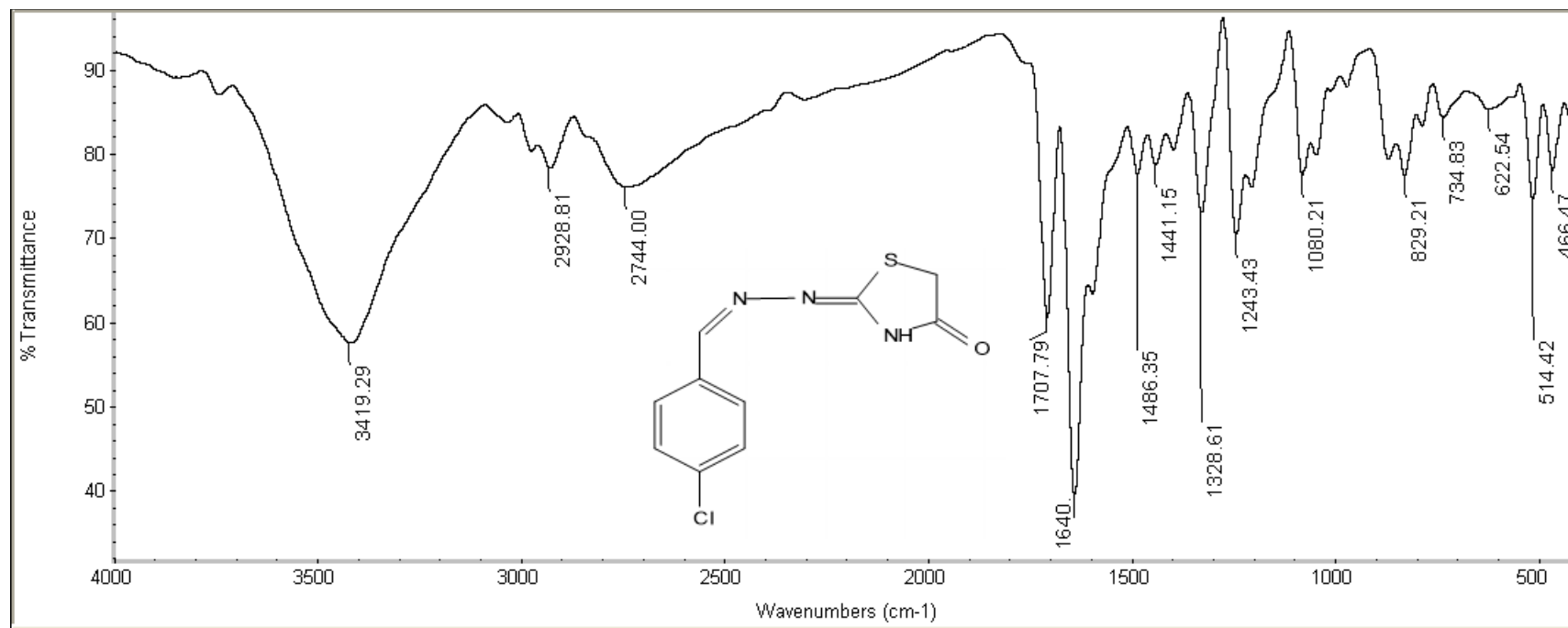


Figure. S2a A: IR spectrum of compound **2a**

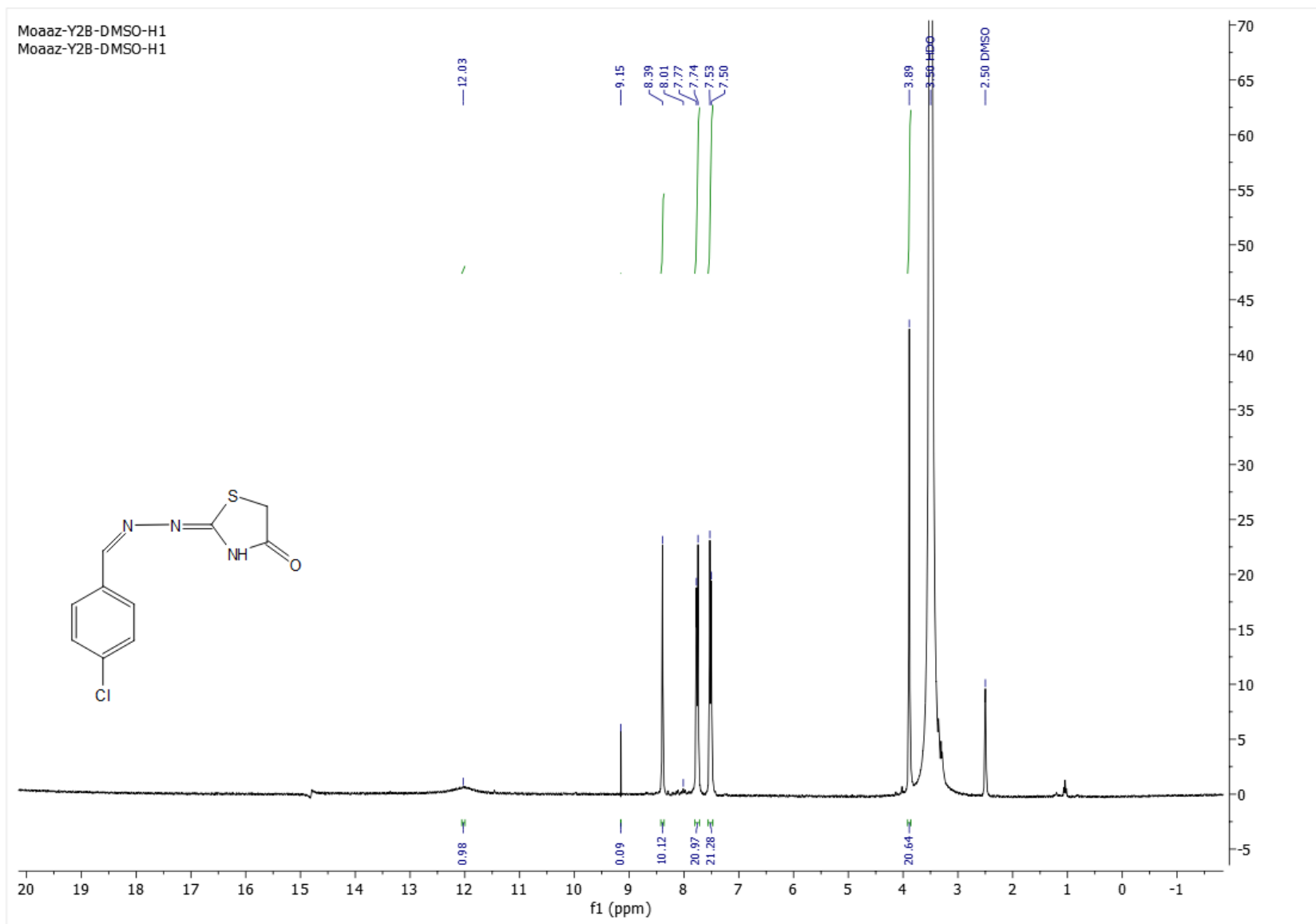


Figure. S2a B: ^1H -NMR spectrum of compound **2a**

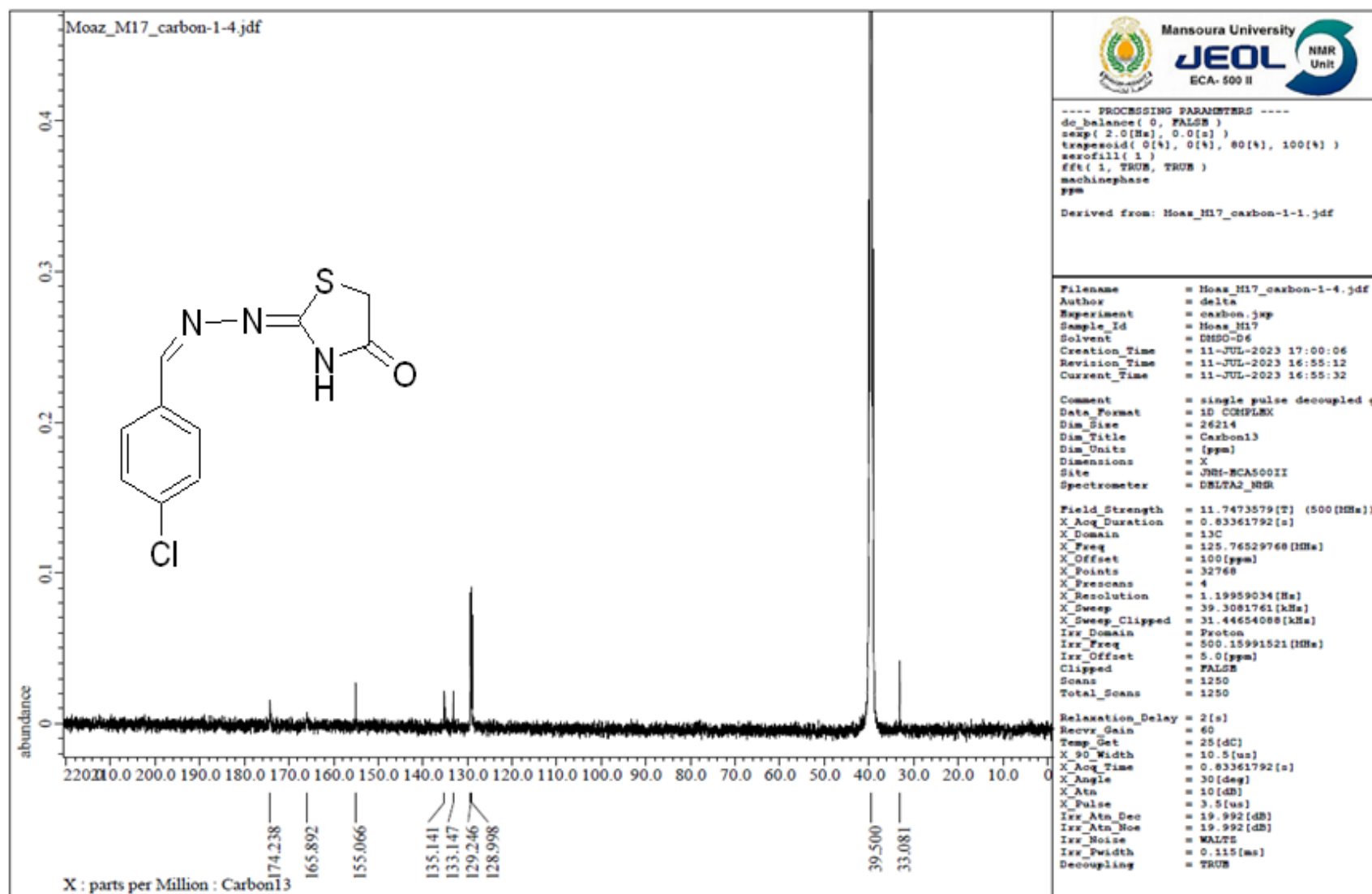


Figure. S2a C: ^{13}C -NMR spectrum of compound 2a

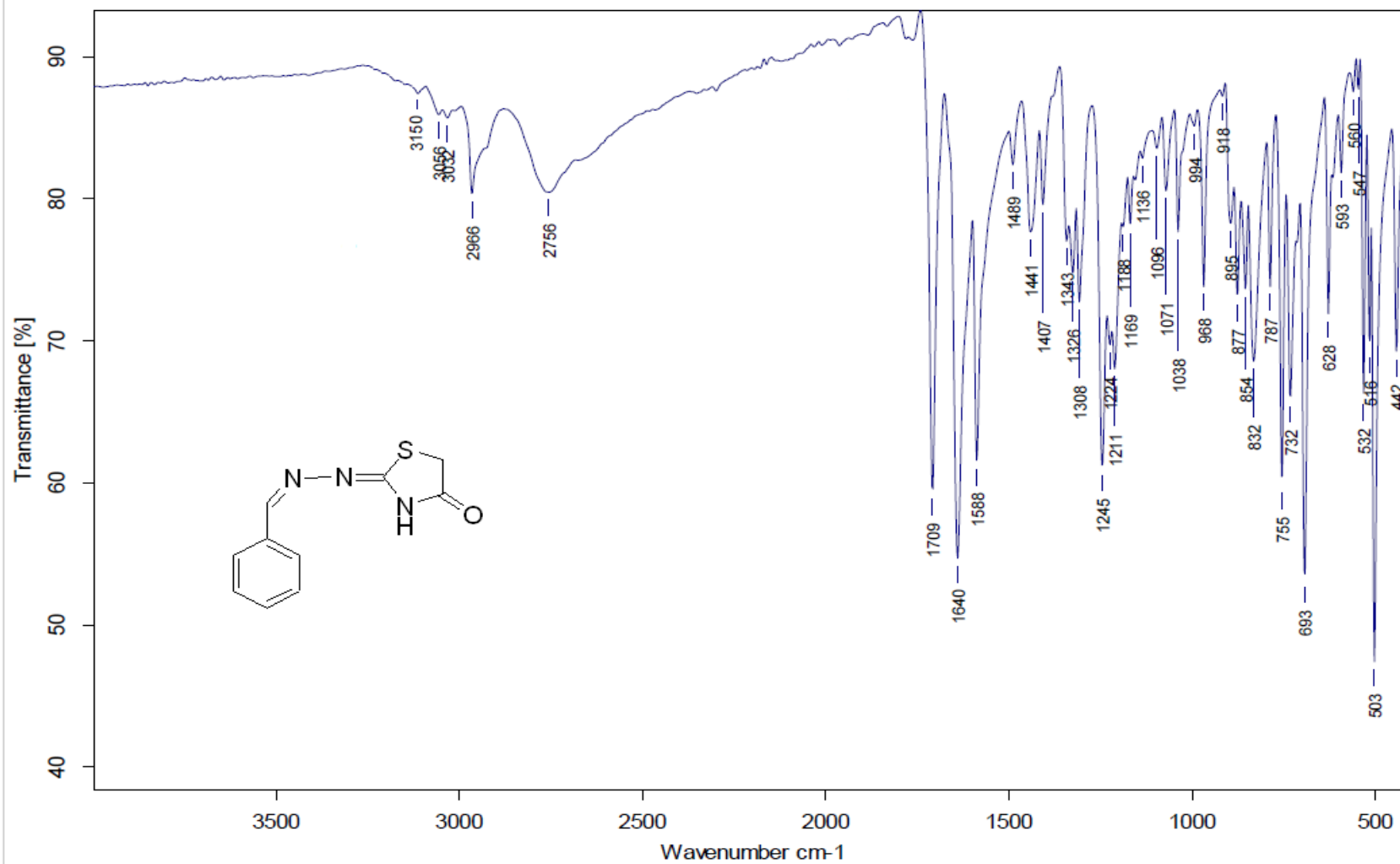


Figure. S2b A: IR spectrum of compound **2b**

Moaz-12-DMSO-H1
Moaz-12-DMSO-H1

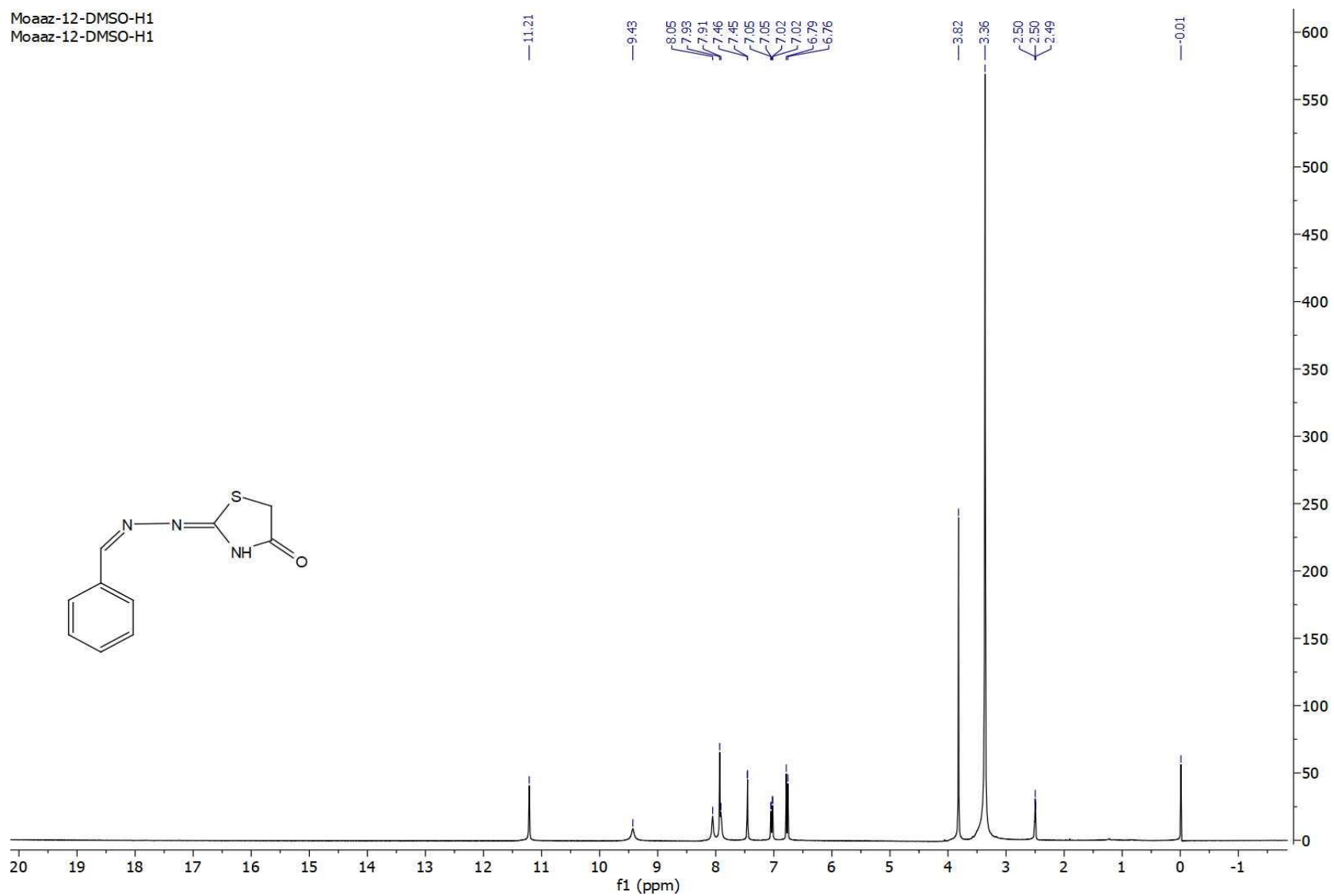


Figure. S2b B: ¹H-NMR spectrum of compound **2b**

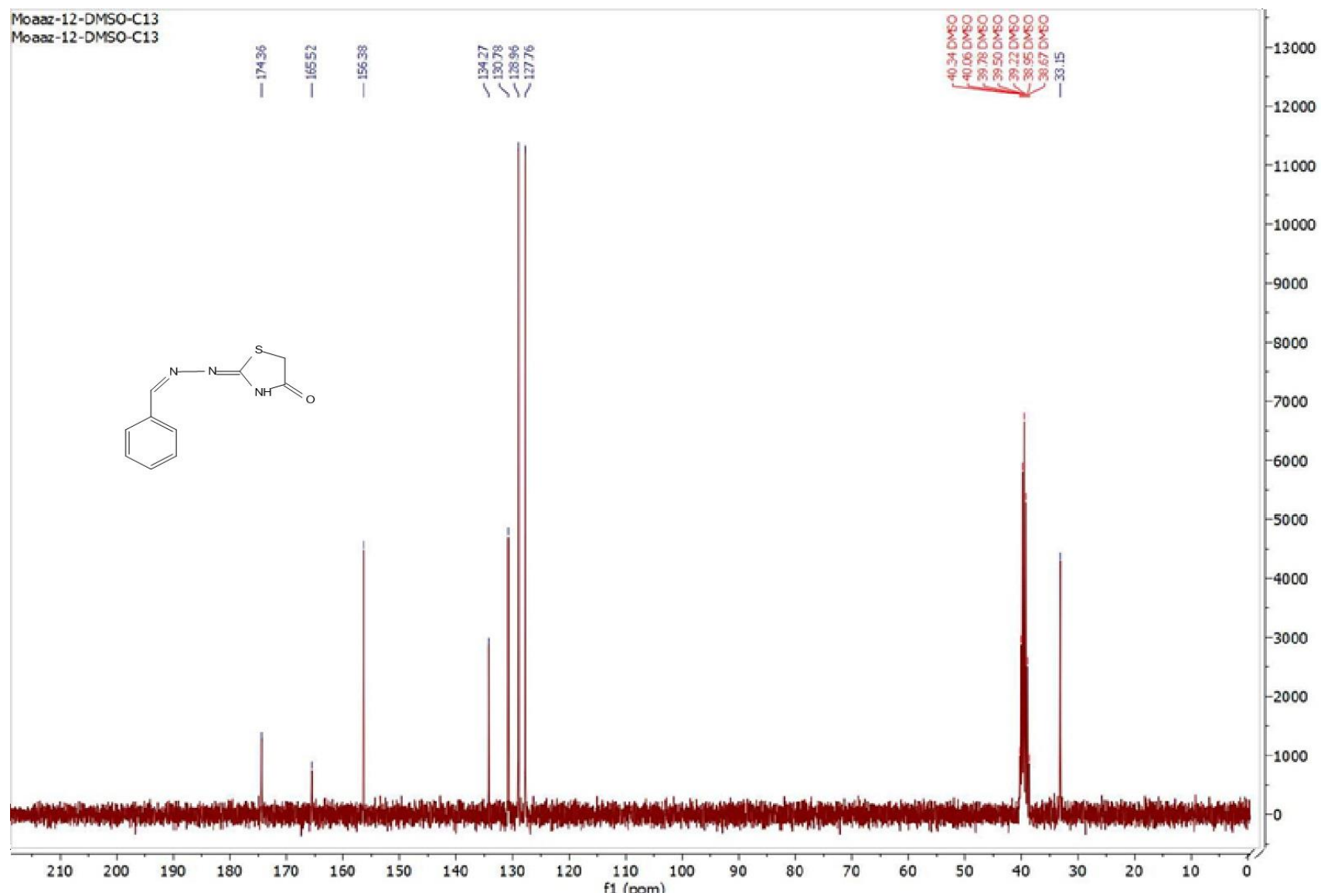


Figure. S2b C: ^{13}C -NMR spectrum of compound **2b**

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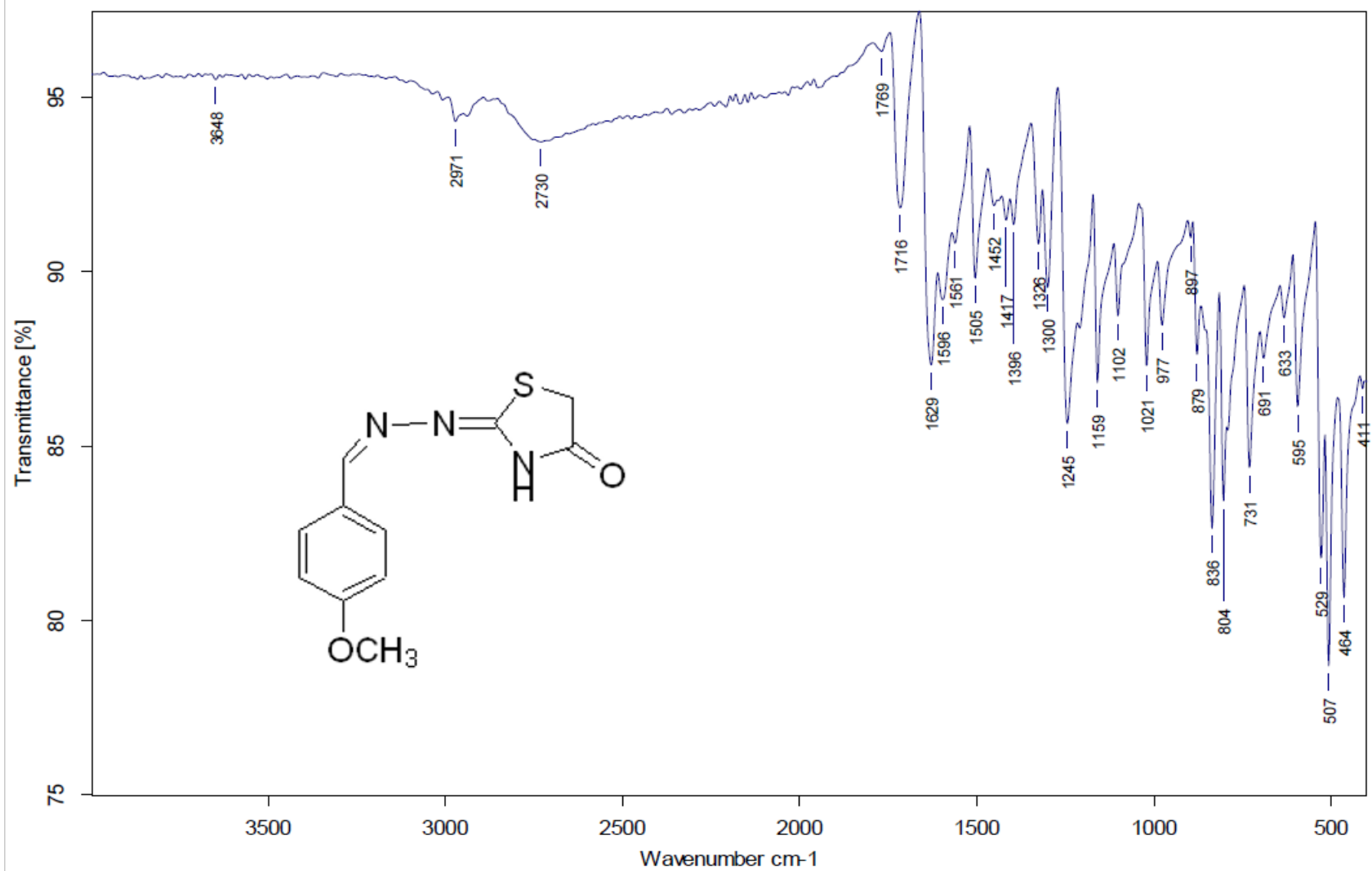


Figure. S 2c A: IR spectrum of compound 2c

Moaz-13-DMSO-H1
Moaz-13-DMSO-H1

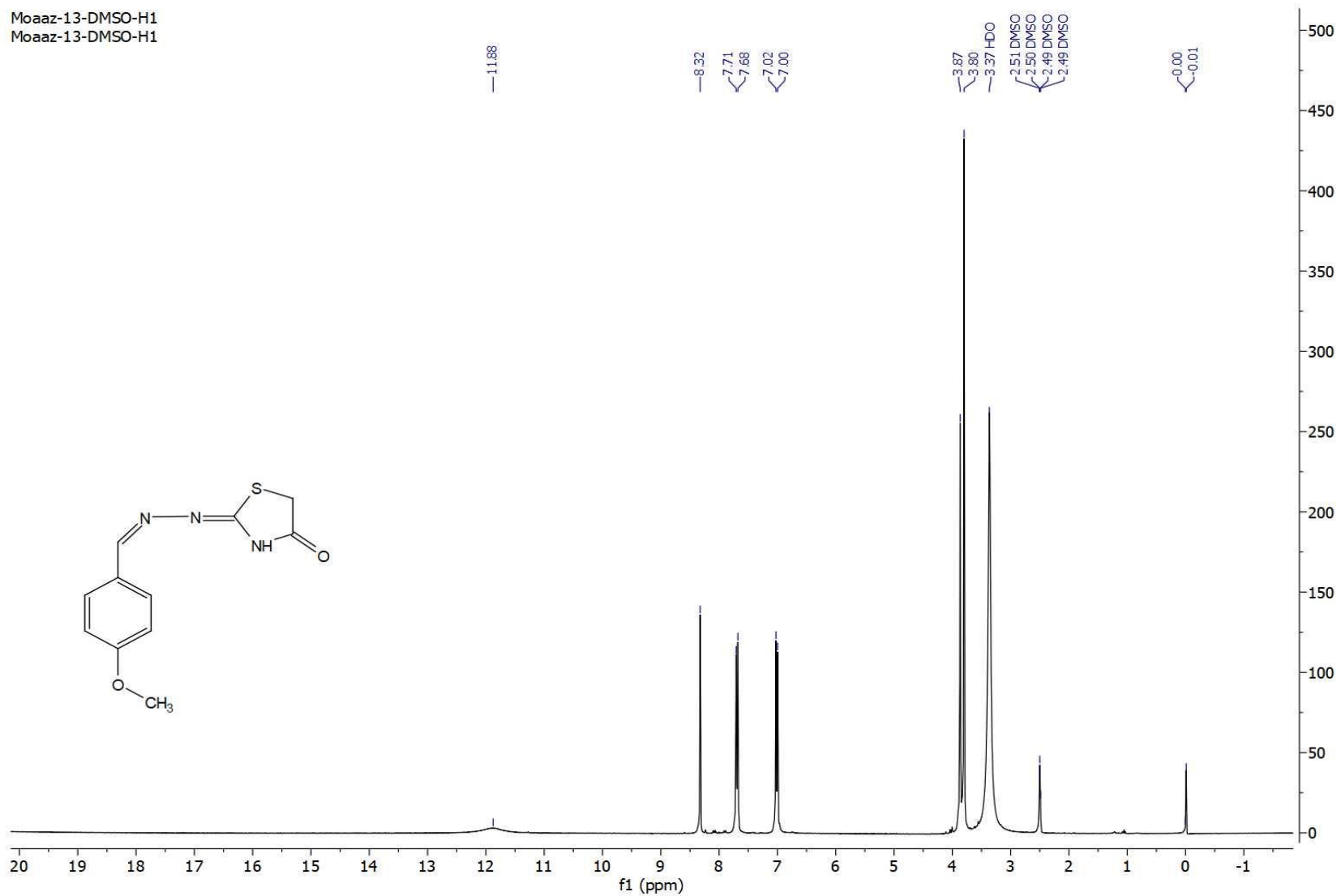


Figure. S2c B: ¹H-NMR spectrum of compound **2c**

Moaz-13-DMSO-C13
Moaz-13-DMSO-C13

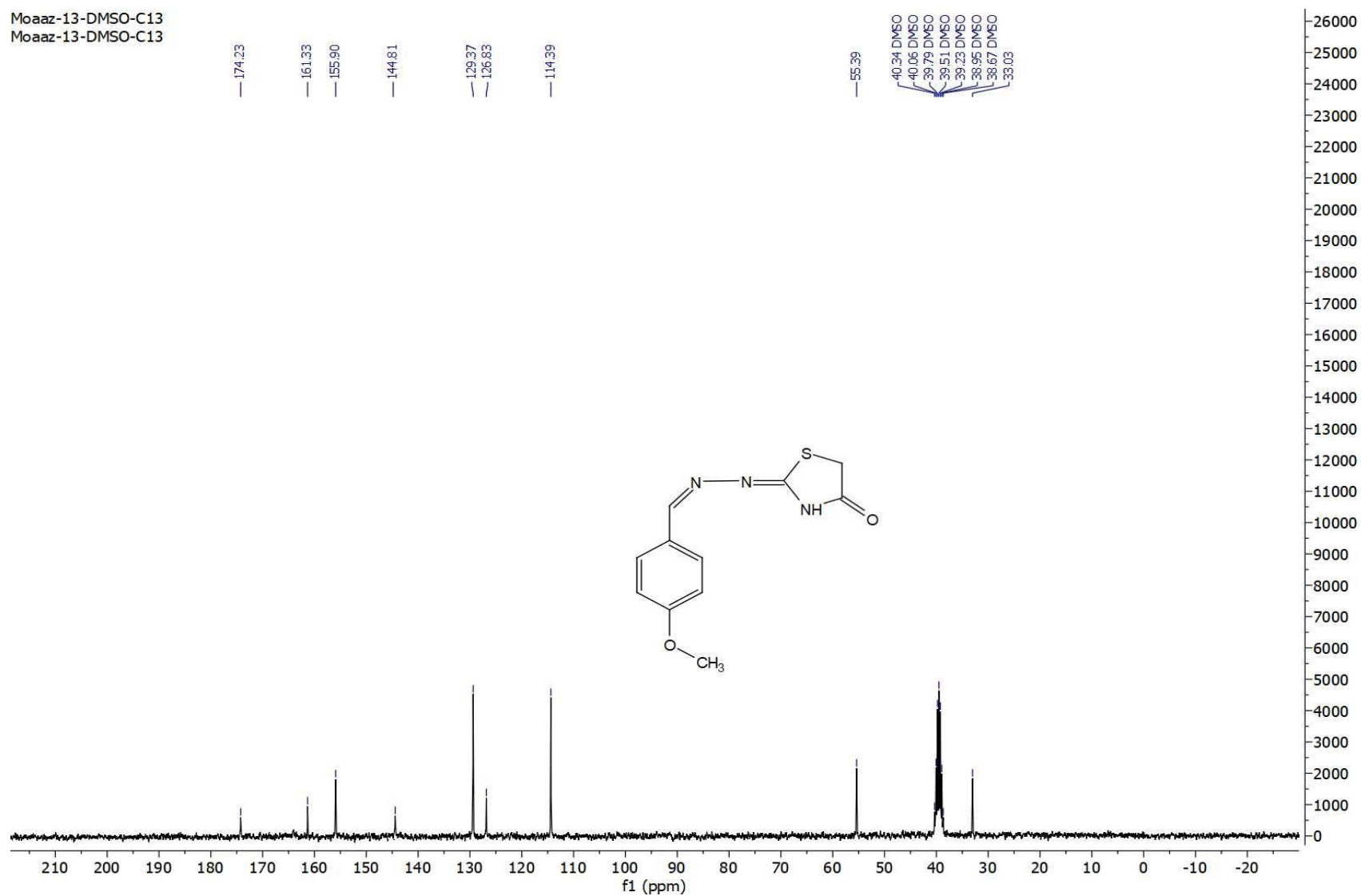


Figure. S2c C: ^{13}C -NMR spectrum of compound 2c

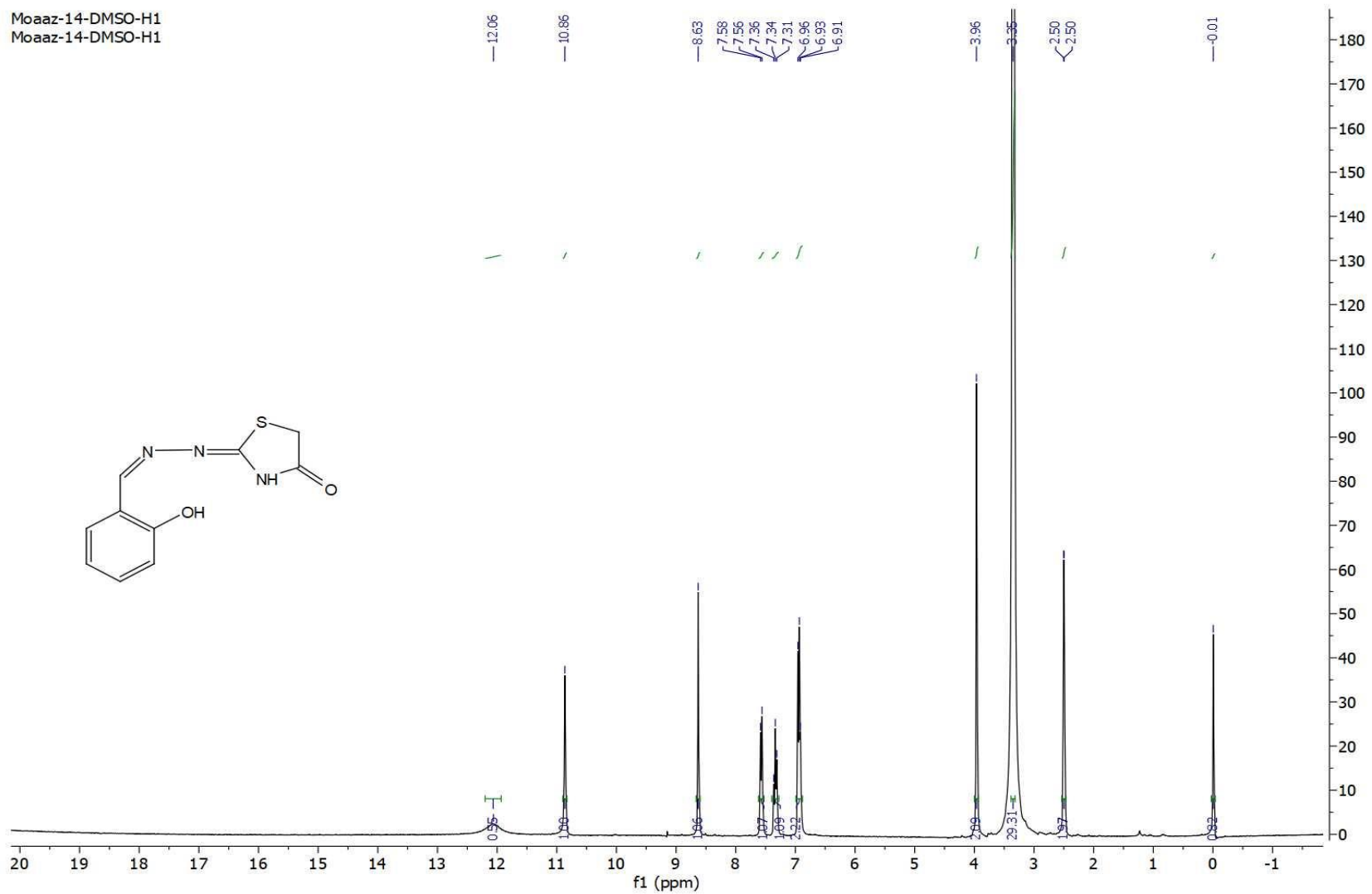


Figure. S2d B: ¹H-NMR spectrum of compound **2d**

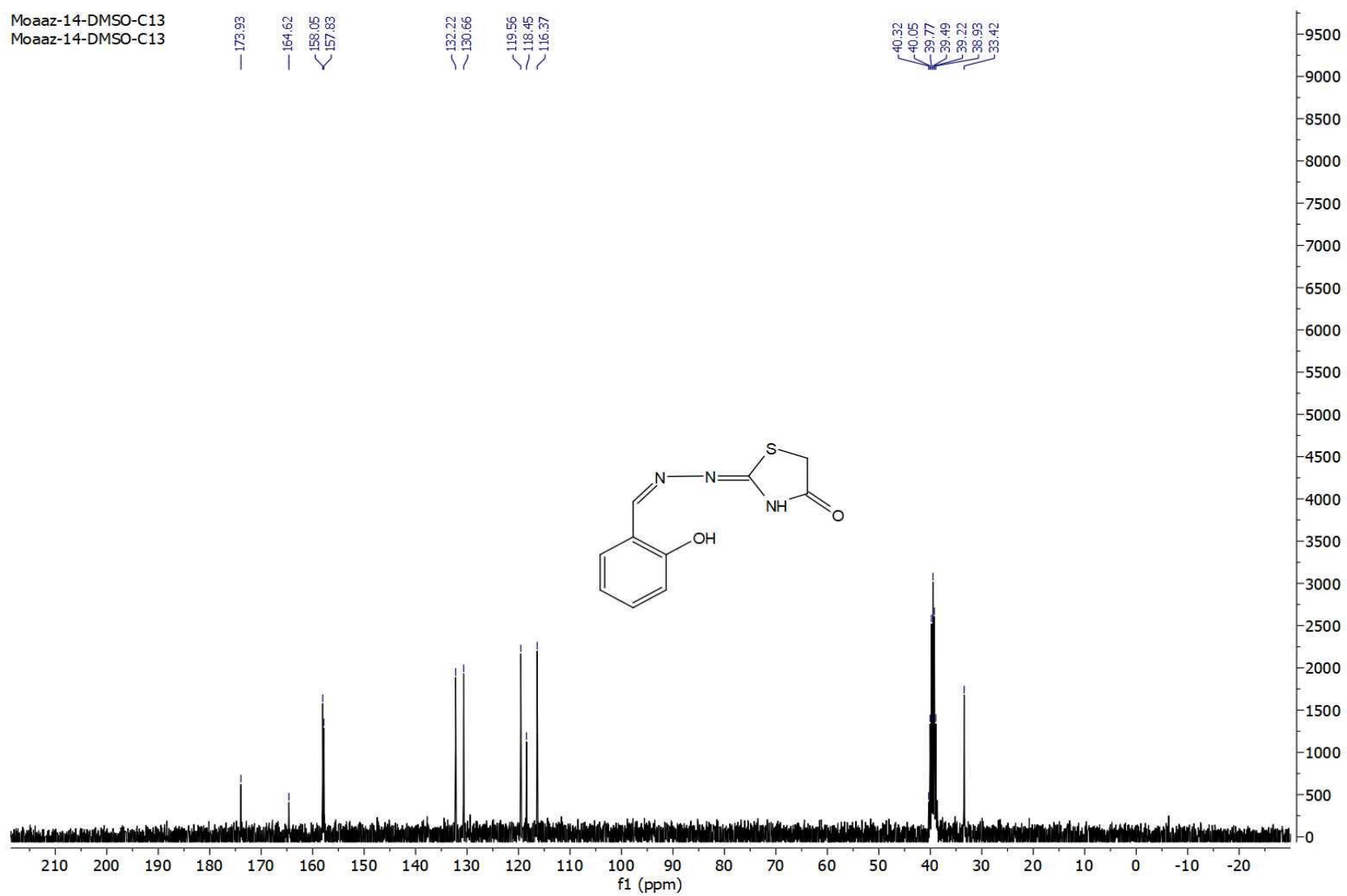


Figure. S2d C: ^{13}C -NMR spectrum of compound **2d**

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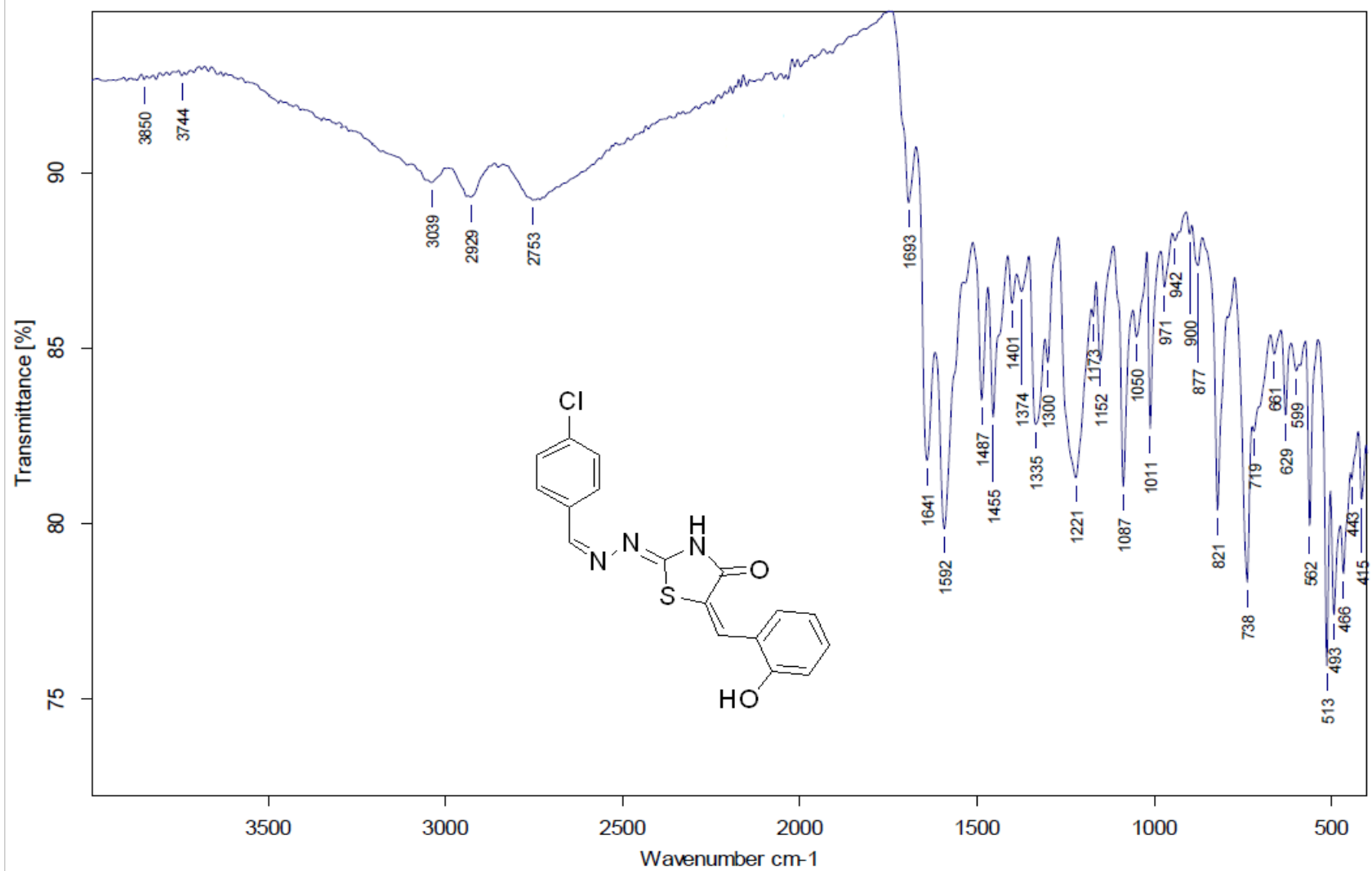


Figure. S3a A: IR spectrum of compound 3a

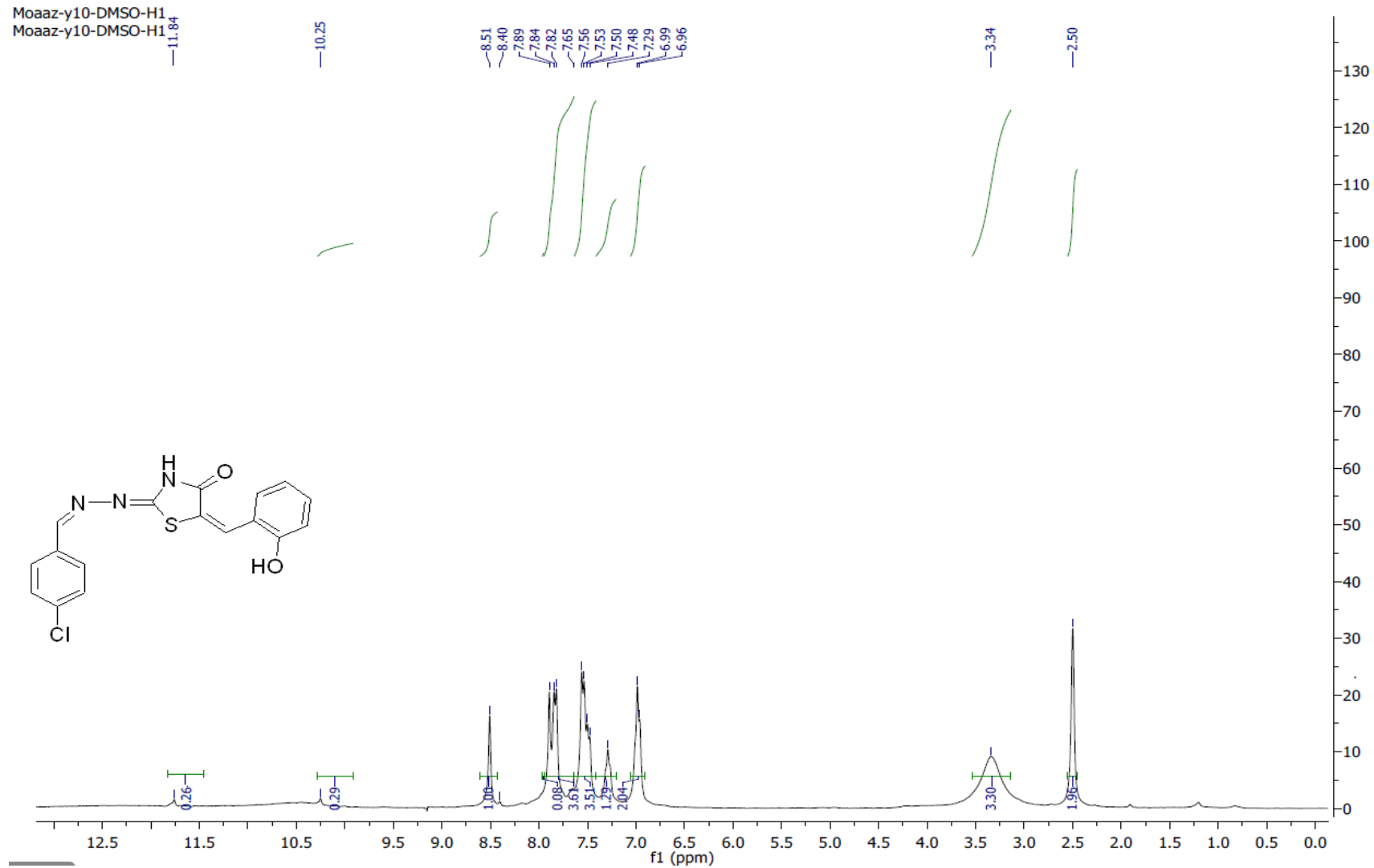


Figure. S3a B: ^1H -NMR spectrum of compound **3a**

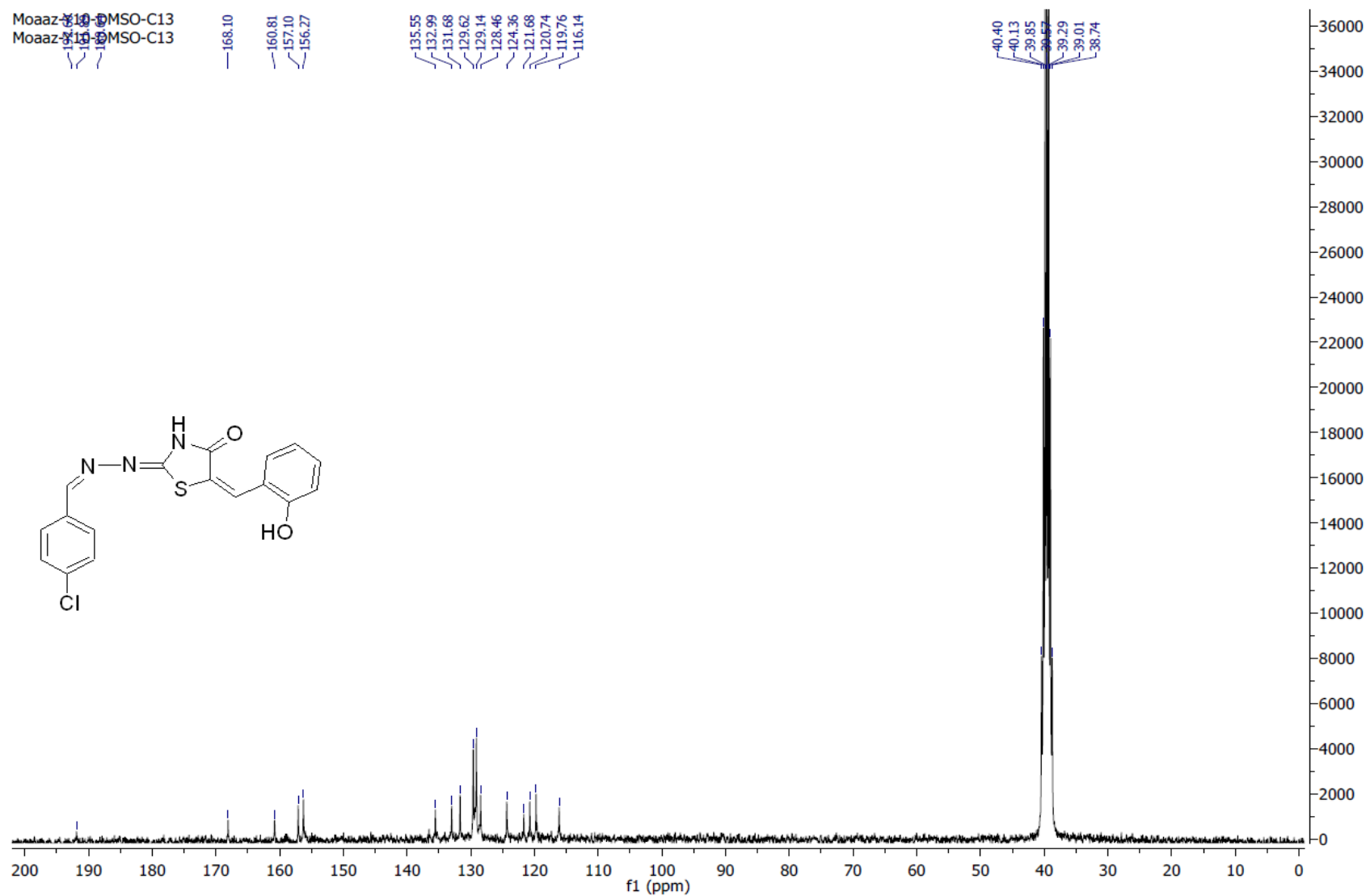


Figure. S3a C: ^{13}C -NMR spectrum of compound **3a**

1 #117 RT: 1.97 P → NL: 4.20E2
T: {0,0} → cEI Full ms [40.00-1000.00]

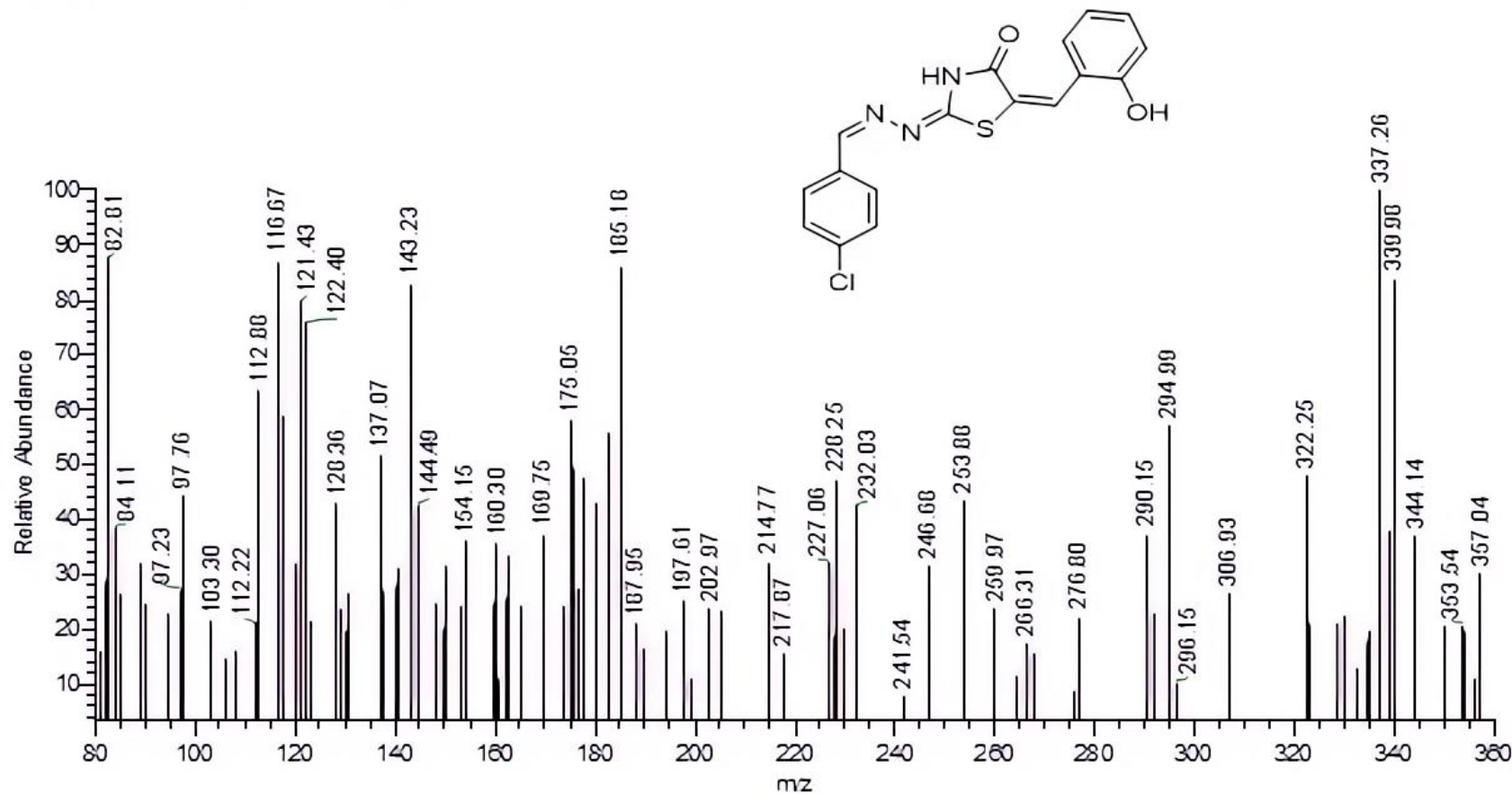


Figure. S3a D: Mass spectrum of compound 3a.

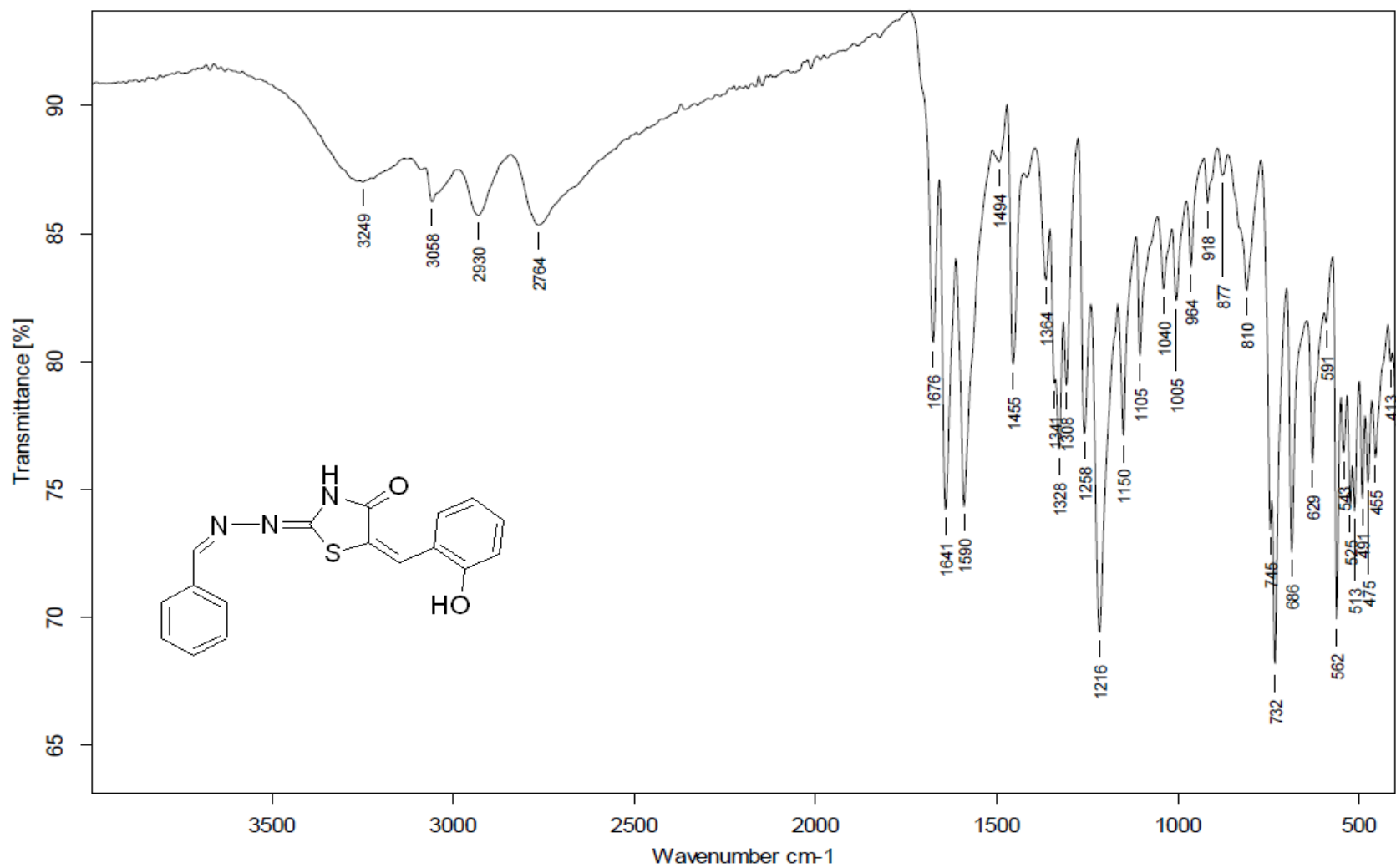


Figure. S3b A: IR spectrum of compound **3b**

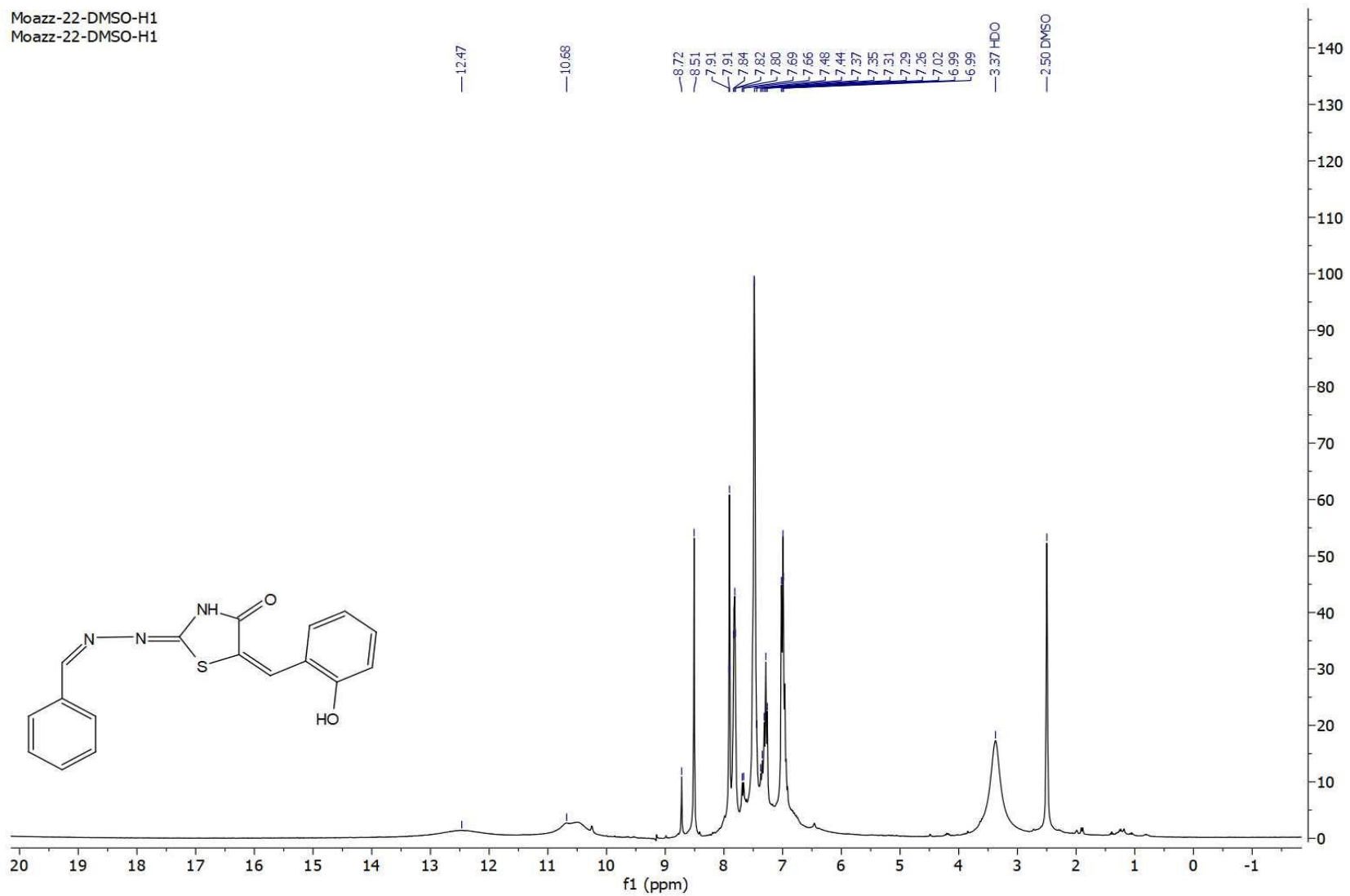


Figure. S3b B: ¹H-NMR spectrum of compound **3b**

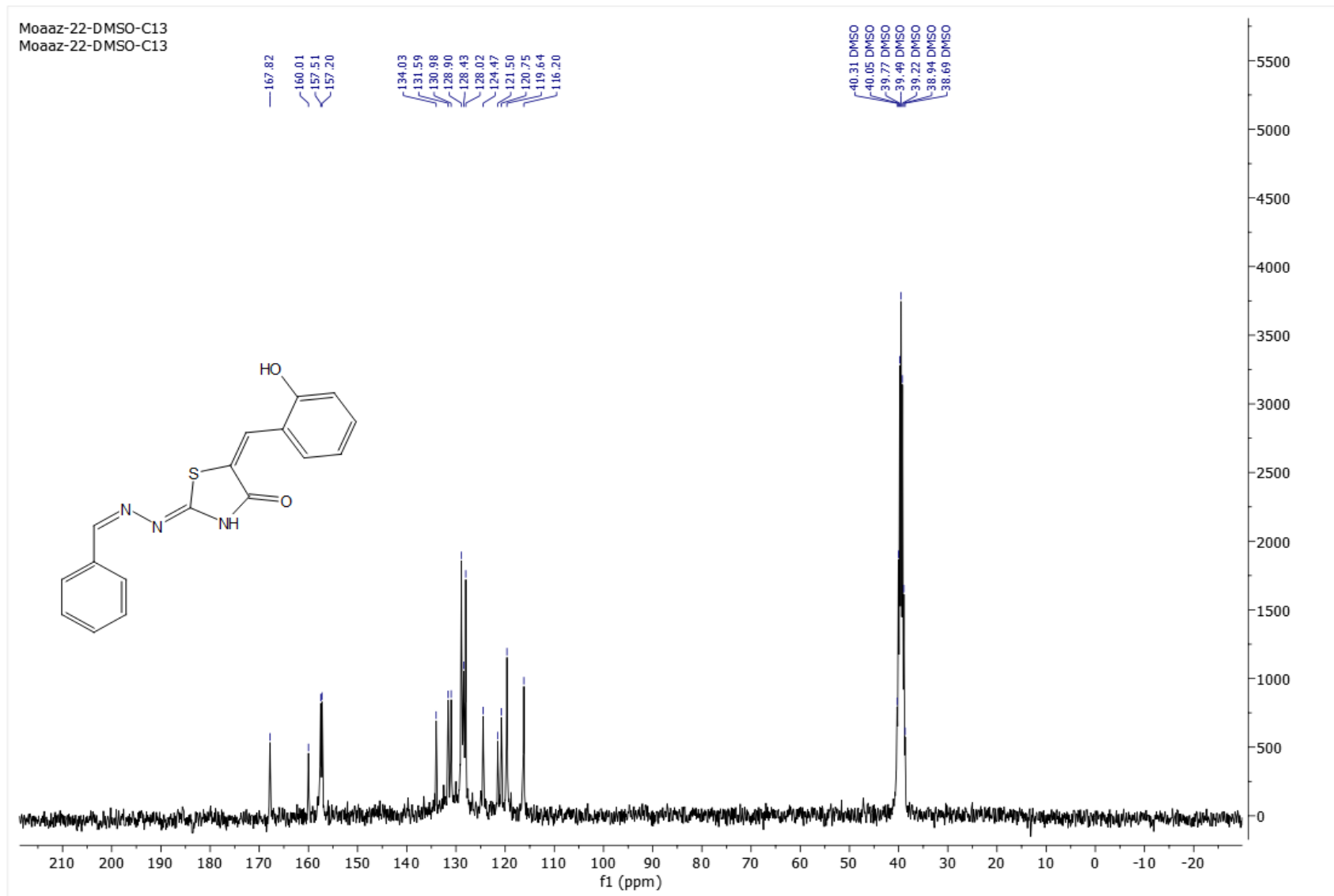


Figure. S3b C: ¹³C-NMR spectrum of compound **3b**.

2#190 RT 3.20 P → SB 2 1.57, 1.57 NL 1.12E3
T {0,0} → cEI Full ms [40.00-1000.00]

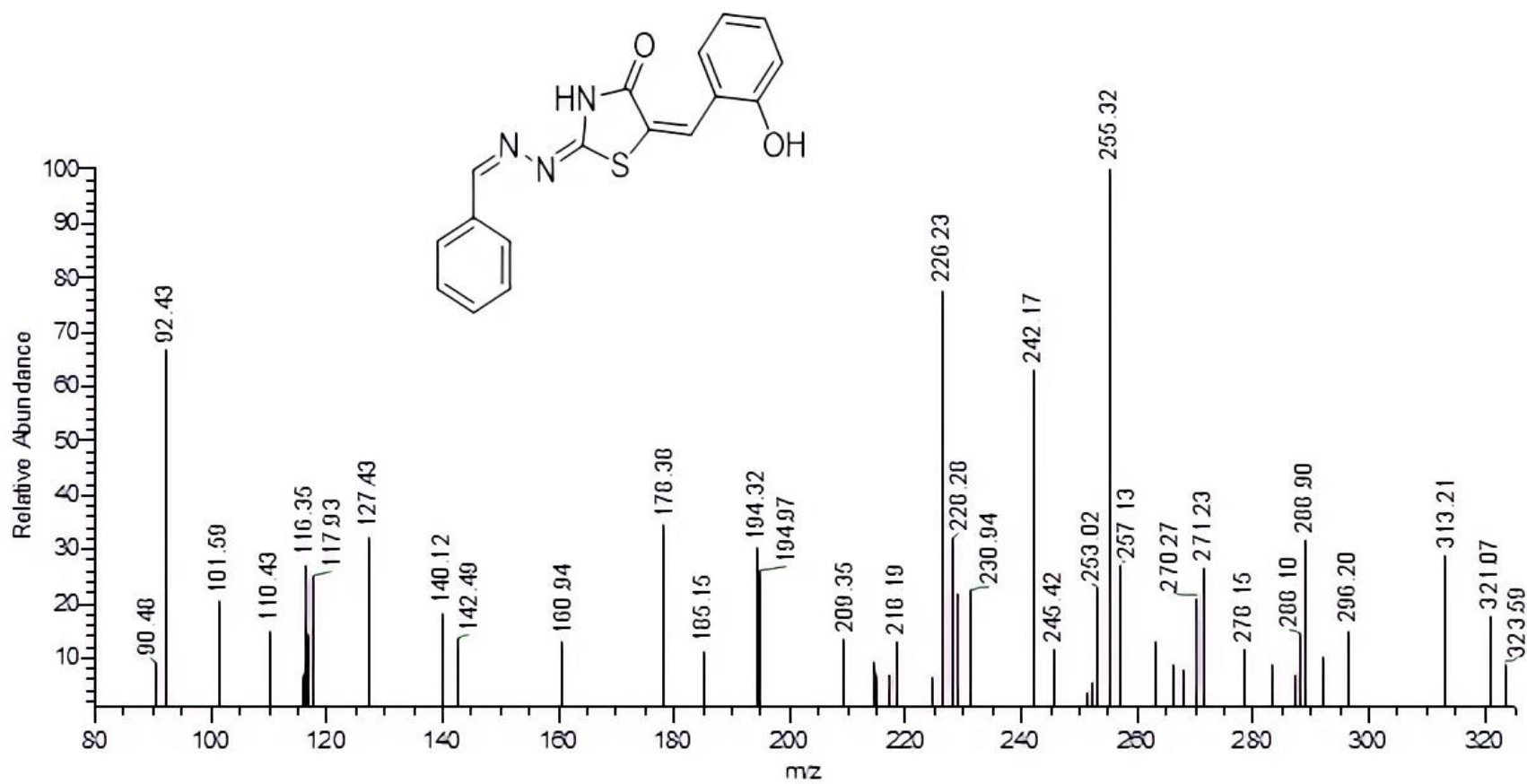


Figure. S3b D: Mass spectrum of compound **3b**.

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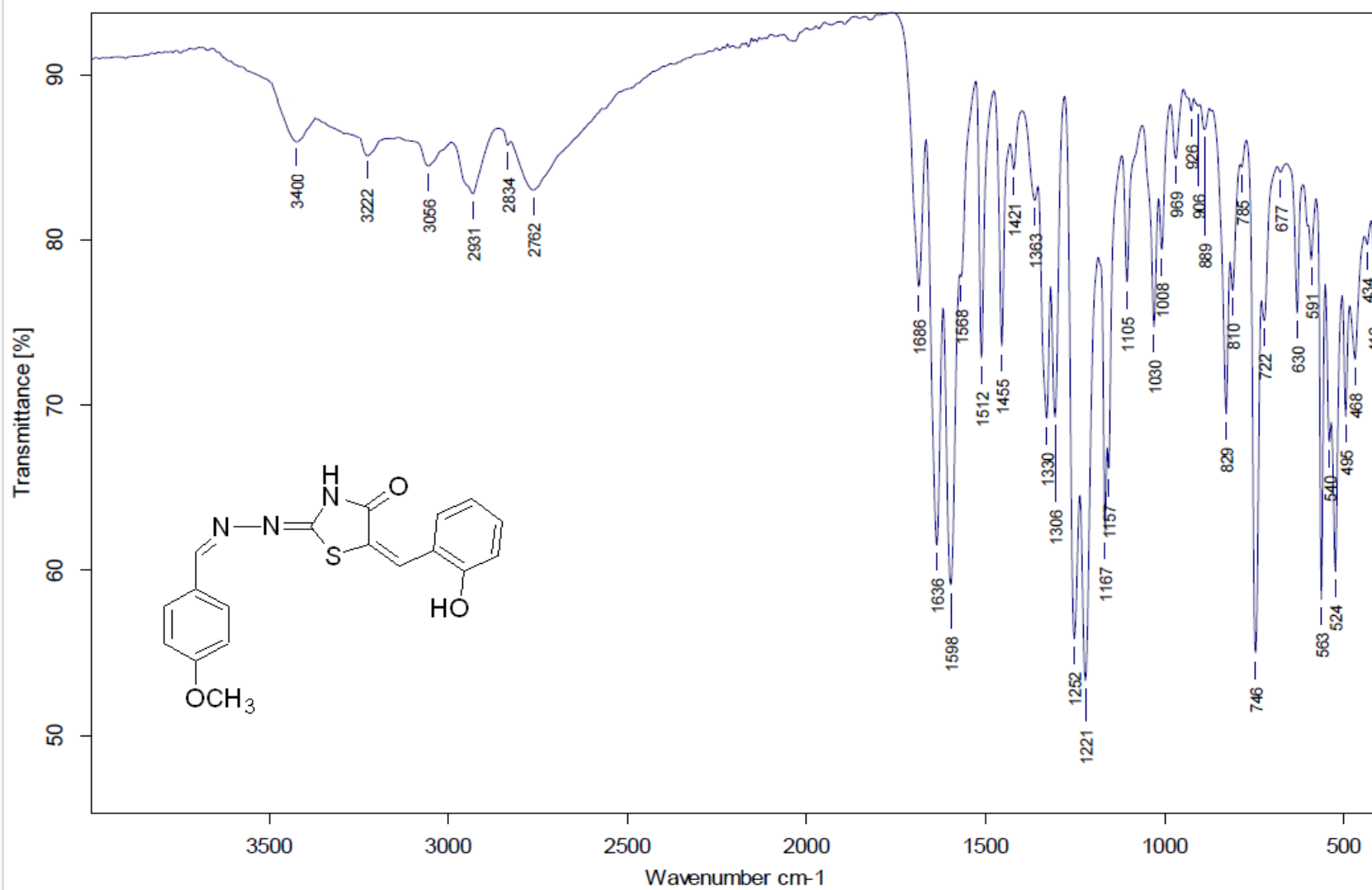


Figure. S3c A: IR spectrum of compound 3c

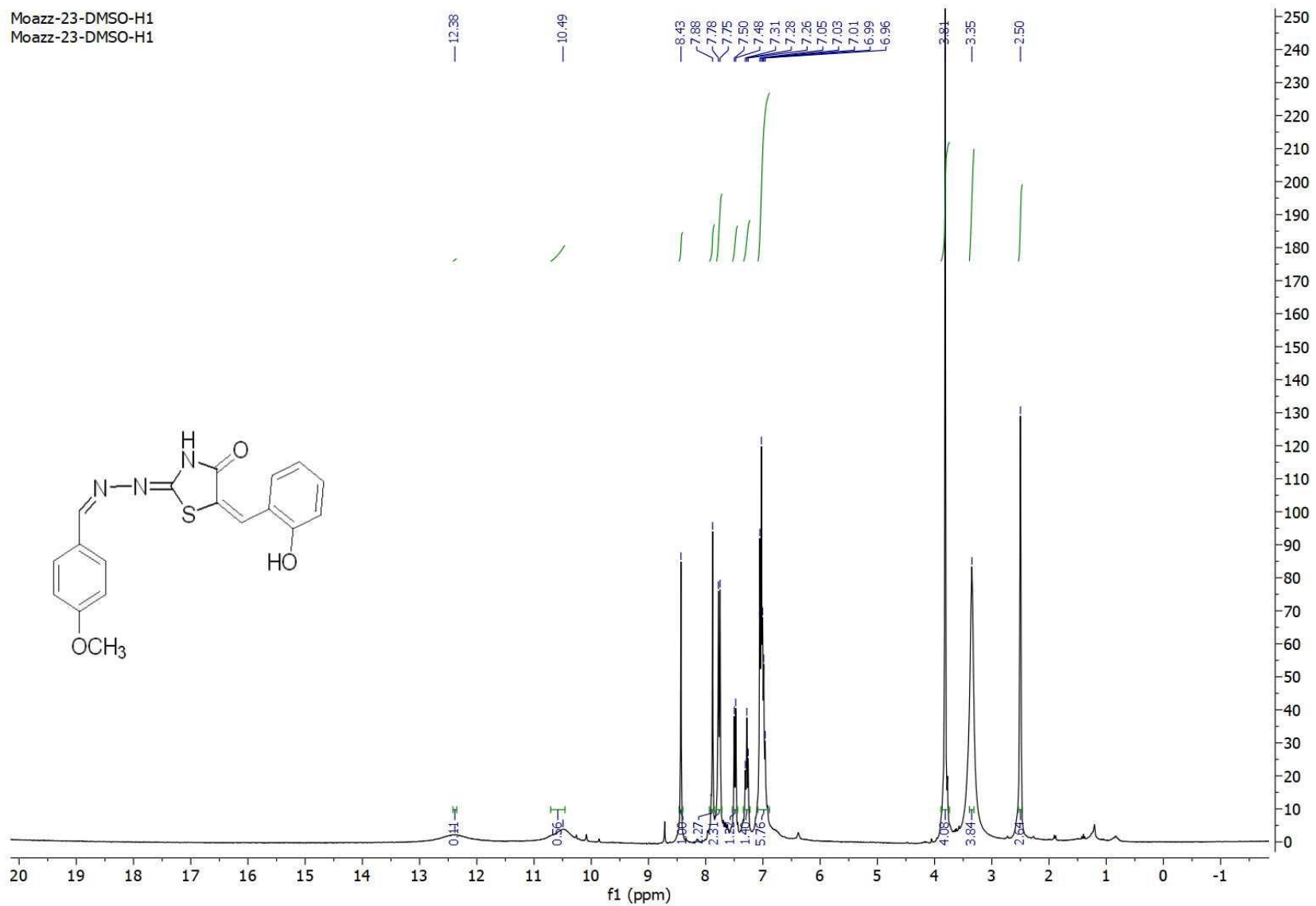


Figure. S3c B: ^1H -NMR spectrum of compound **3c**

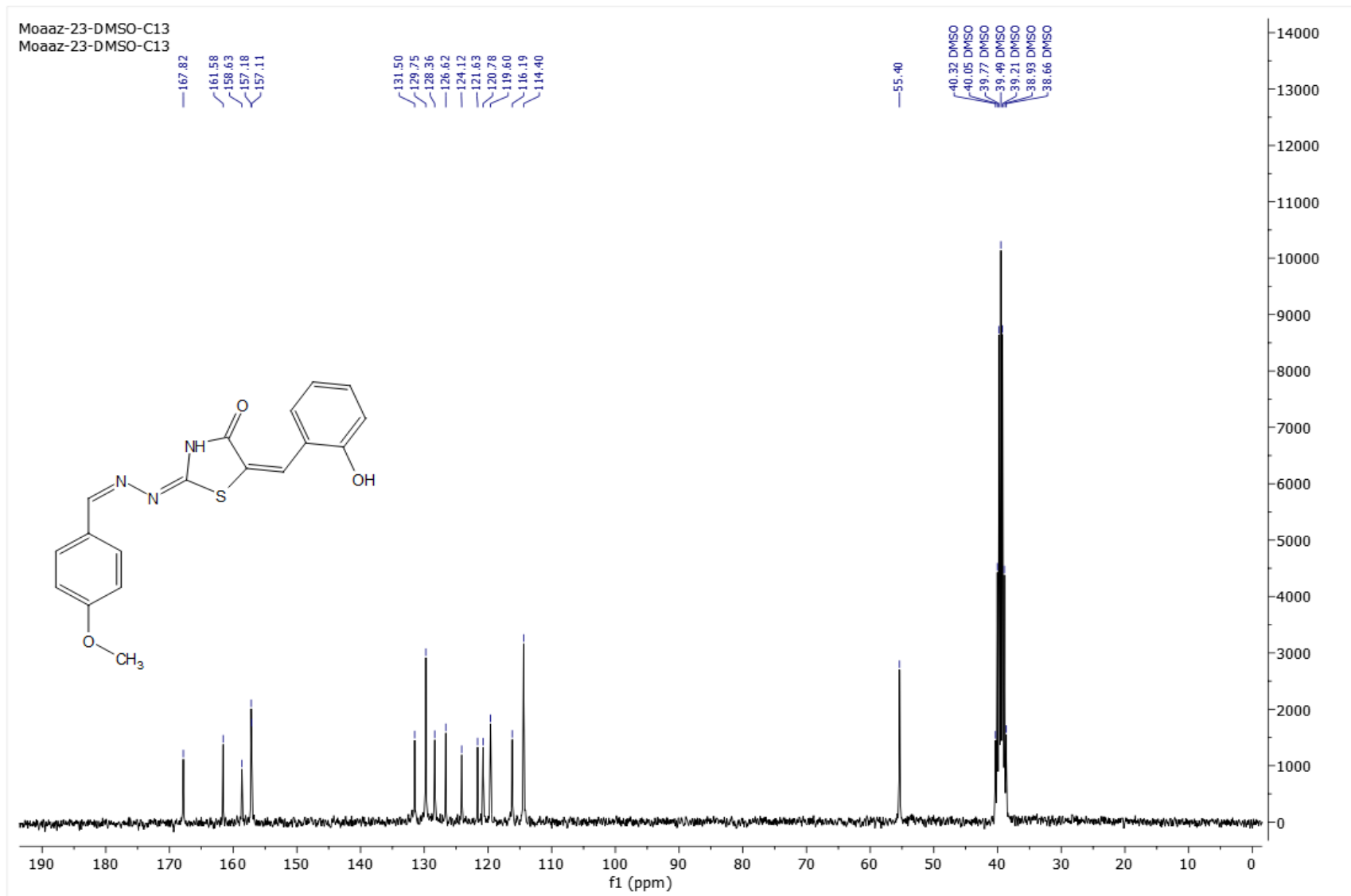


Figure. S3c C: ^{13}C -NMR spectrum of compound **3c**.

3 = 84 RT: 1.42 P + NL: 5.33E2
T: (0.0) + cEI Full ms [40.00-1000.00]

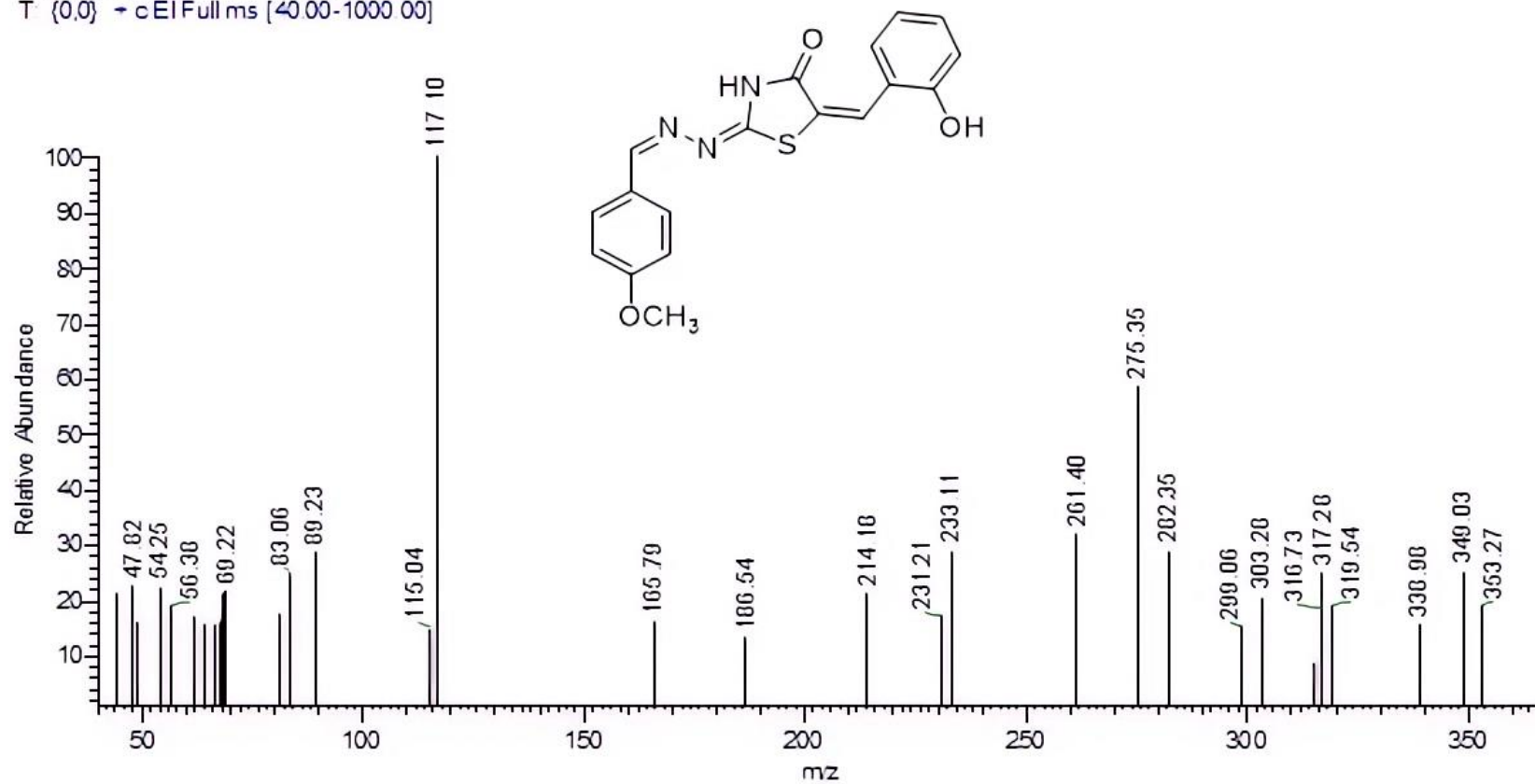


Figure. S3c D: Mass spectrum of compound 3c.

Moazz-24-DMSO-H1
Moazz-24-DMSO-H1

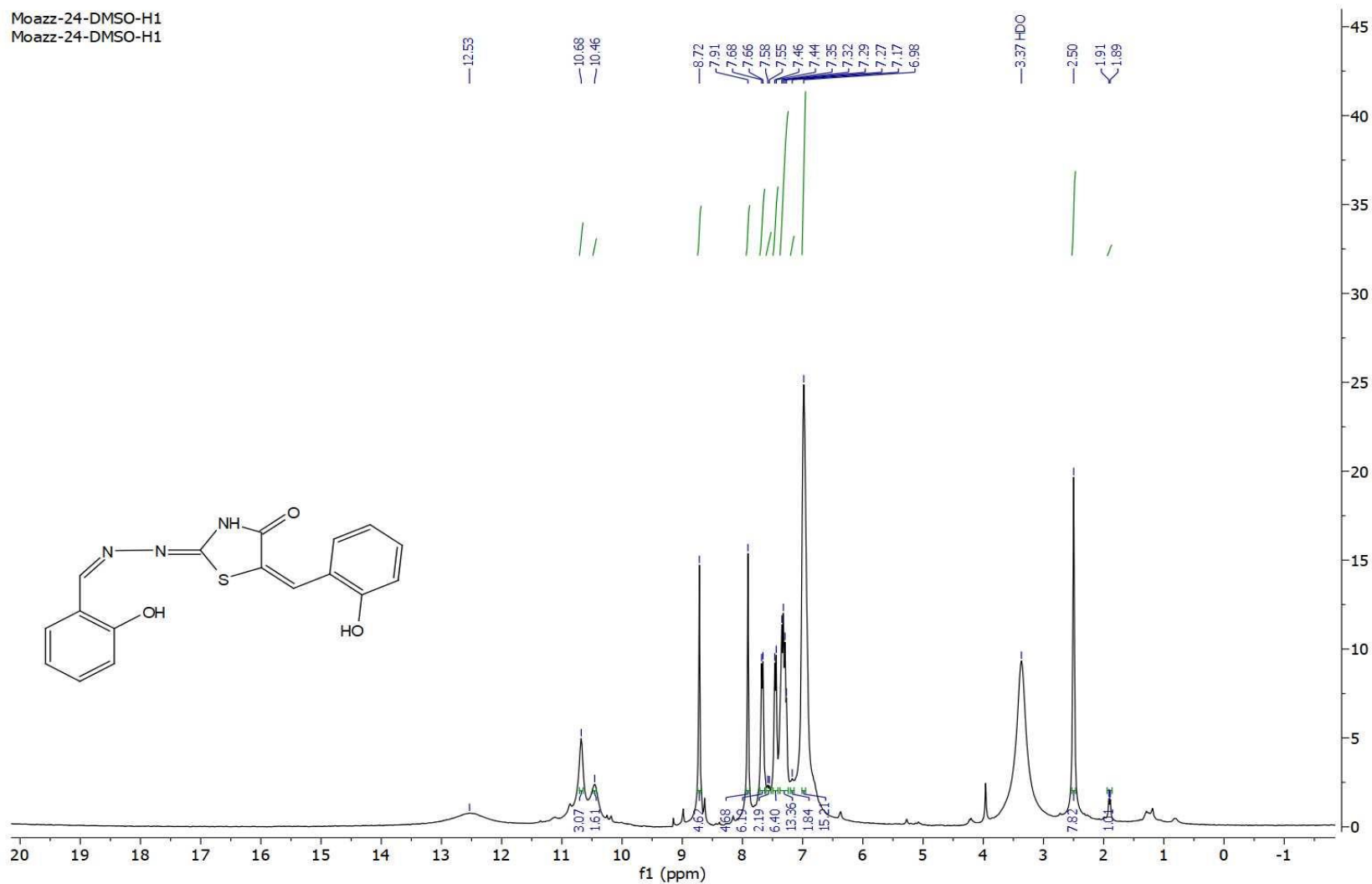


Figure. S3d B: ¹H-NMR spectrum of compound **3d**

Moaz-24-DMSO-C13
Moaz-24-DMSO-C13

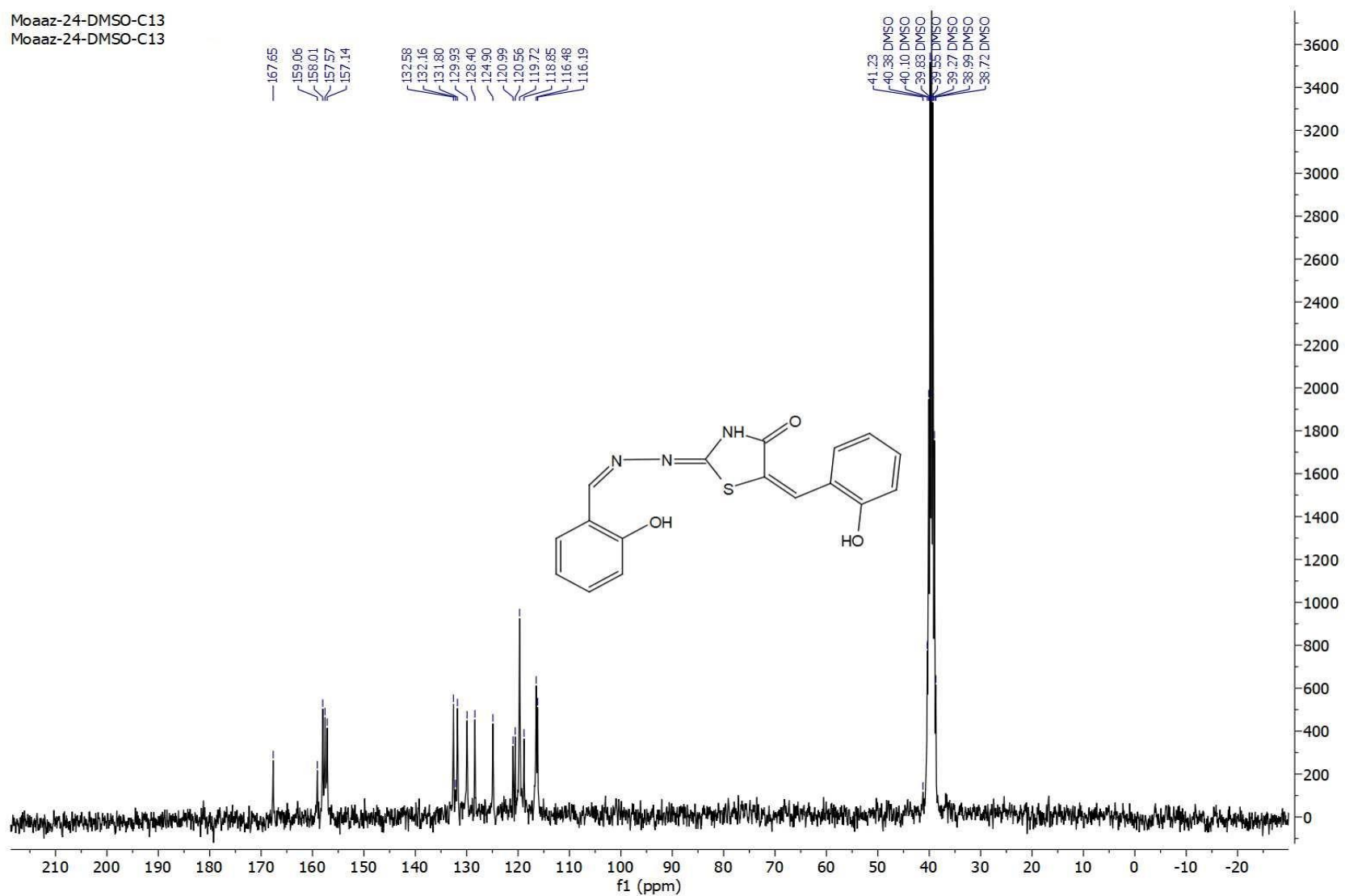


Figure. S3d C: ^{13}C -NMR spectrum of compound **3d**.

4 #180 RT 3.03 P + NL 2.85E2
T: {0.0} → cEI Full ms [40.00-1000.00]

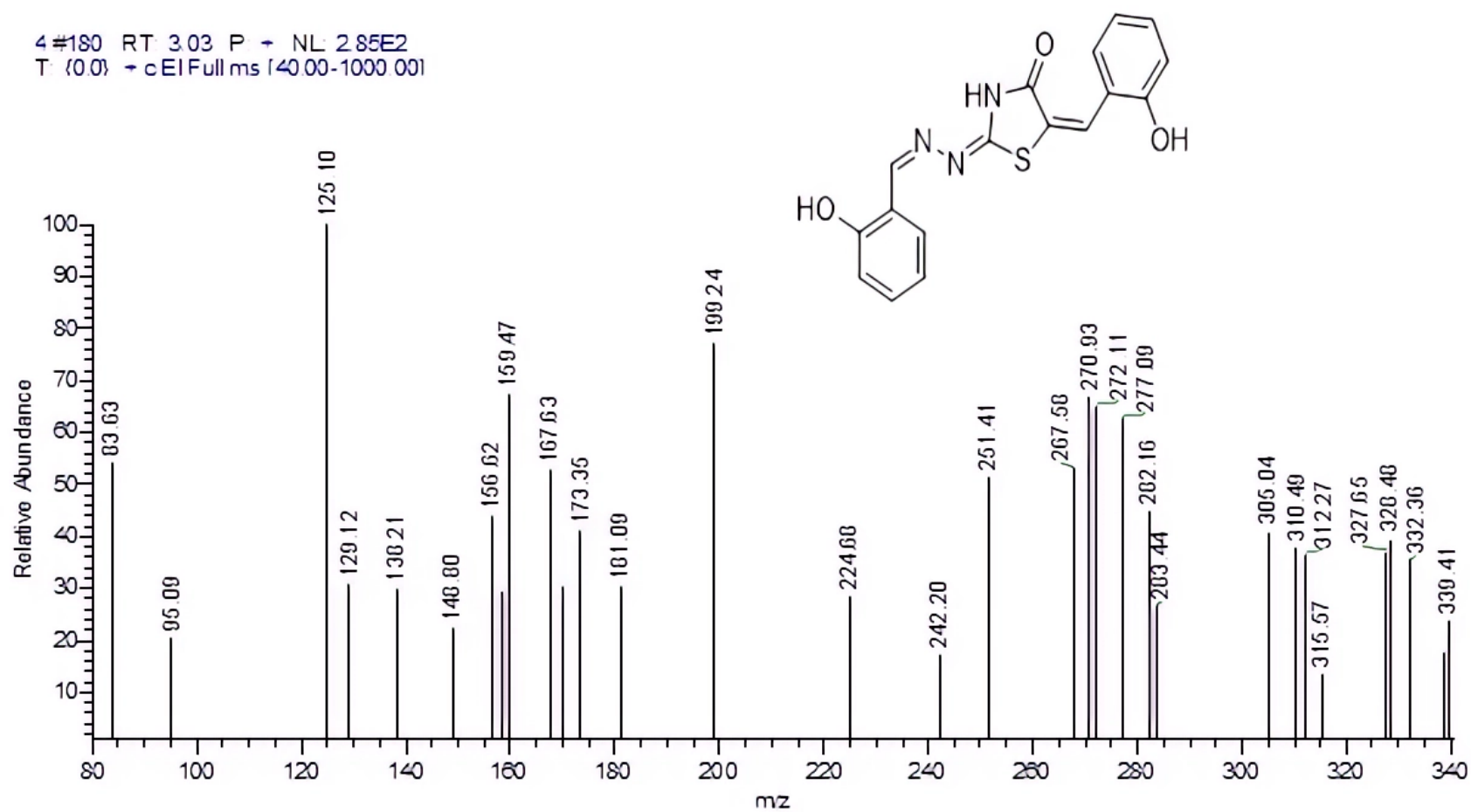


Figure. S3d D: Mass spectrum of compound **3d**.

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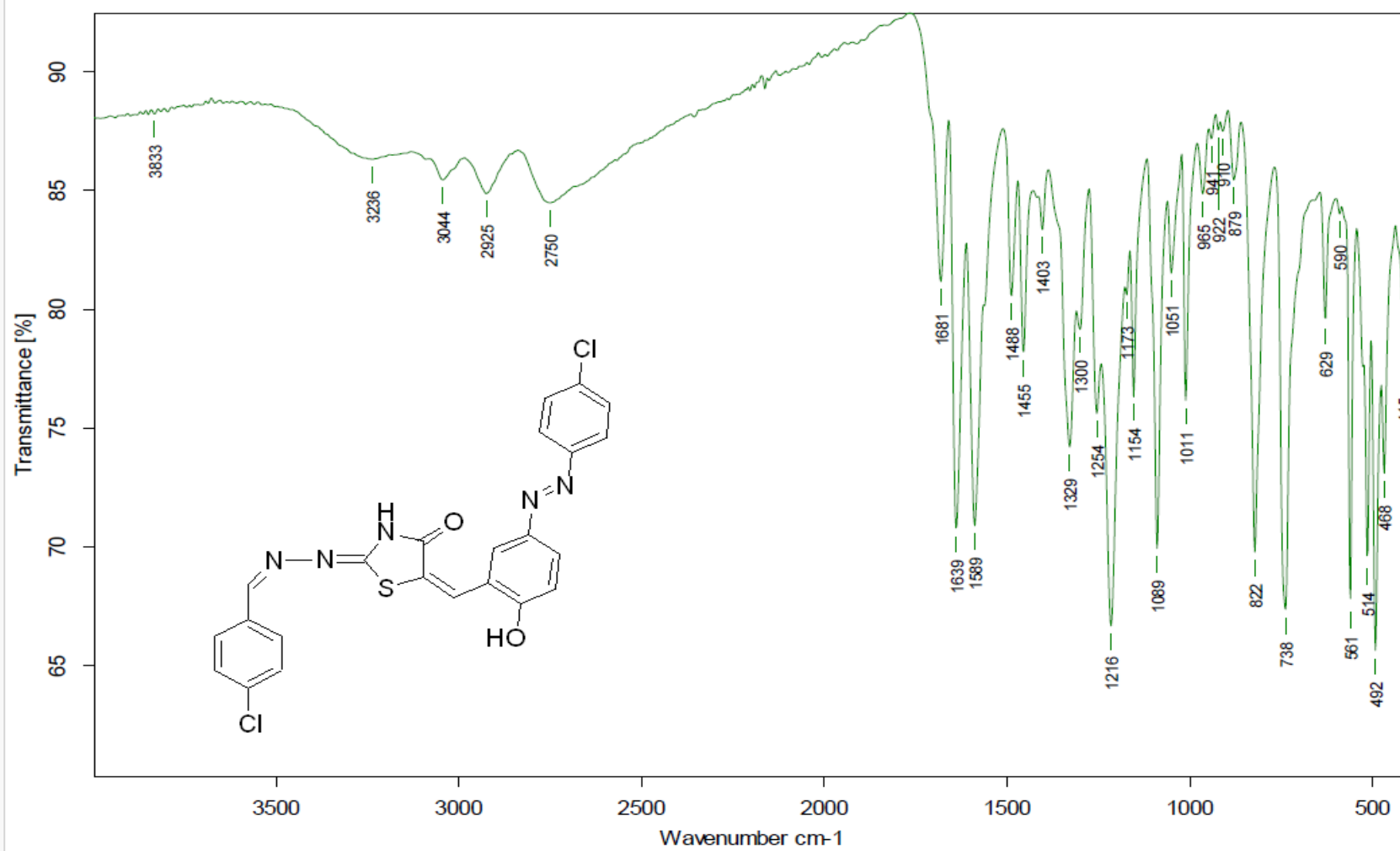


Figure. S4a A: IR spectrum of compound **4a**(dye 1).

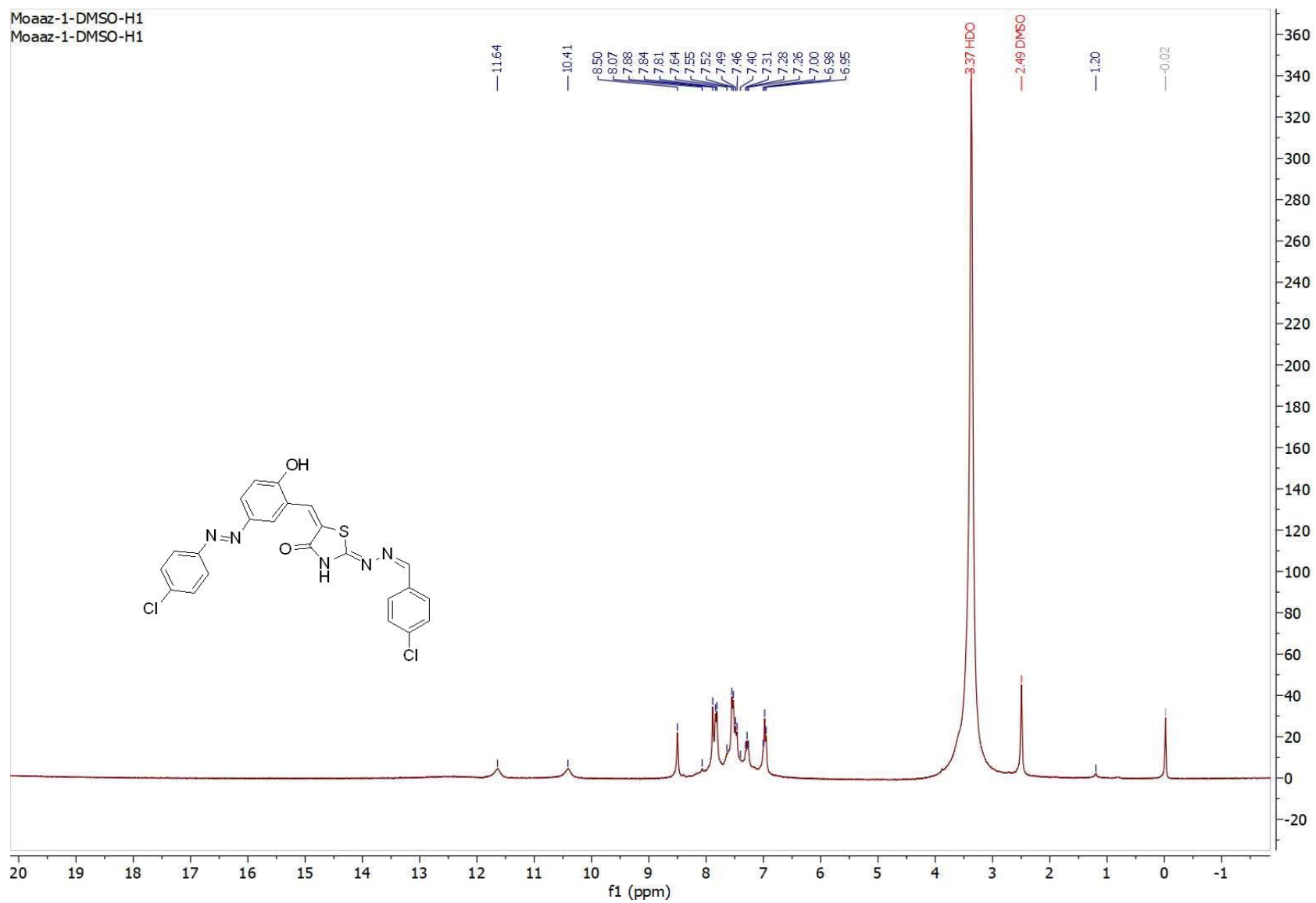


Figure. S4a B: ^1H -NMR spectrum of compound **4a**(dye **1**).

5#272 RT 4.57 P → NL 1.40E3
T {0,0} → cEiFull ms [40.00-1000.00]

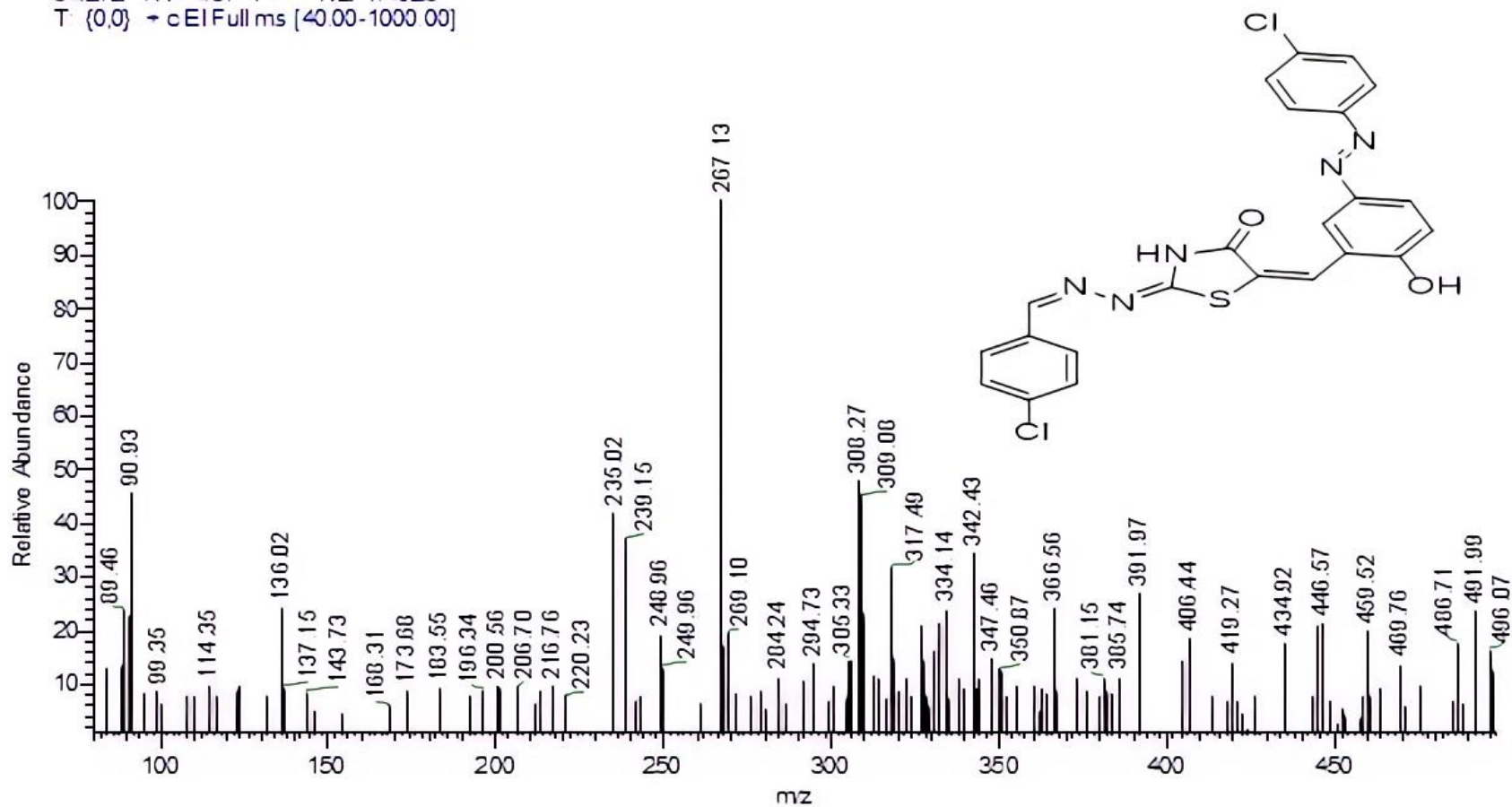


Figure. S4a D: Mass spectrum of compound 4a(dye 1).

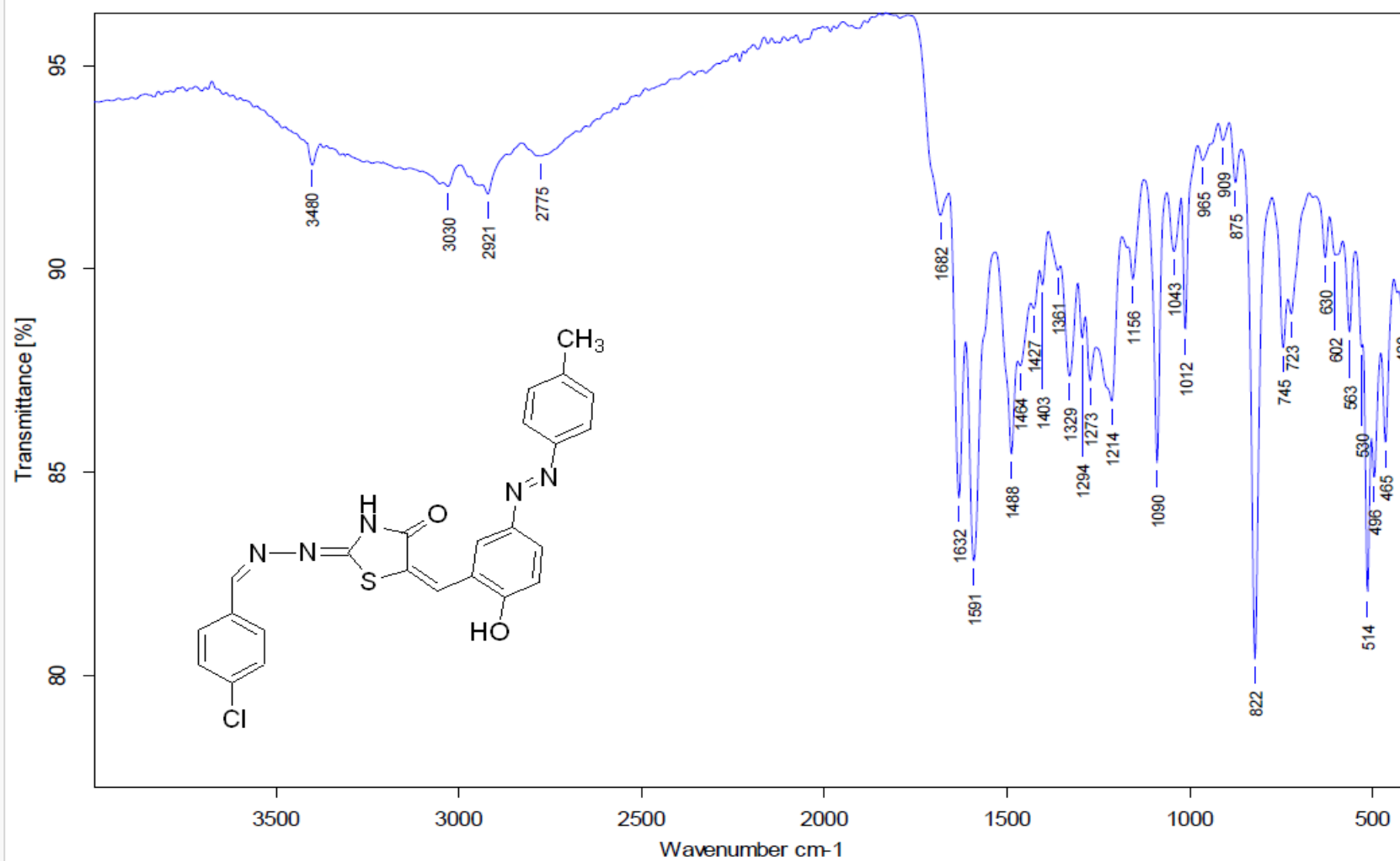


Figure. S4b A: IR spectrum of compound **4b(dye 2)**.

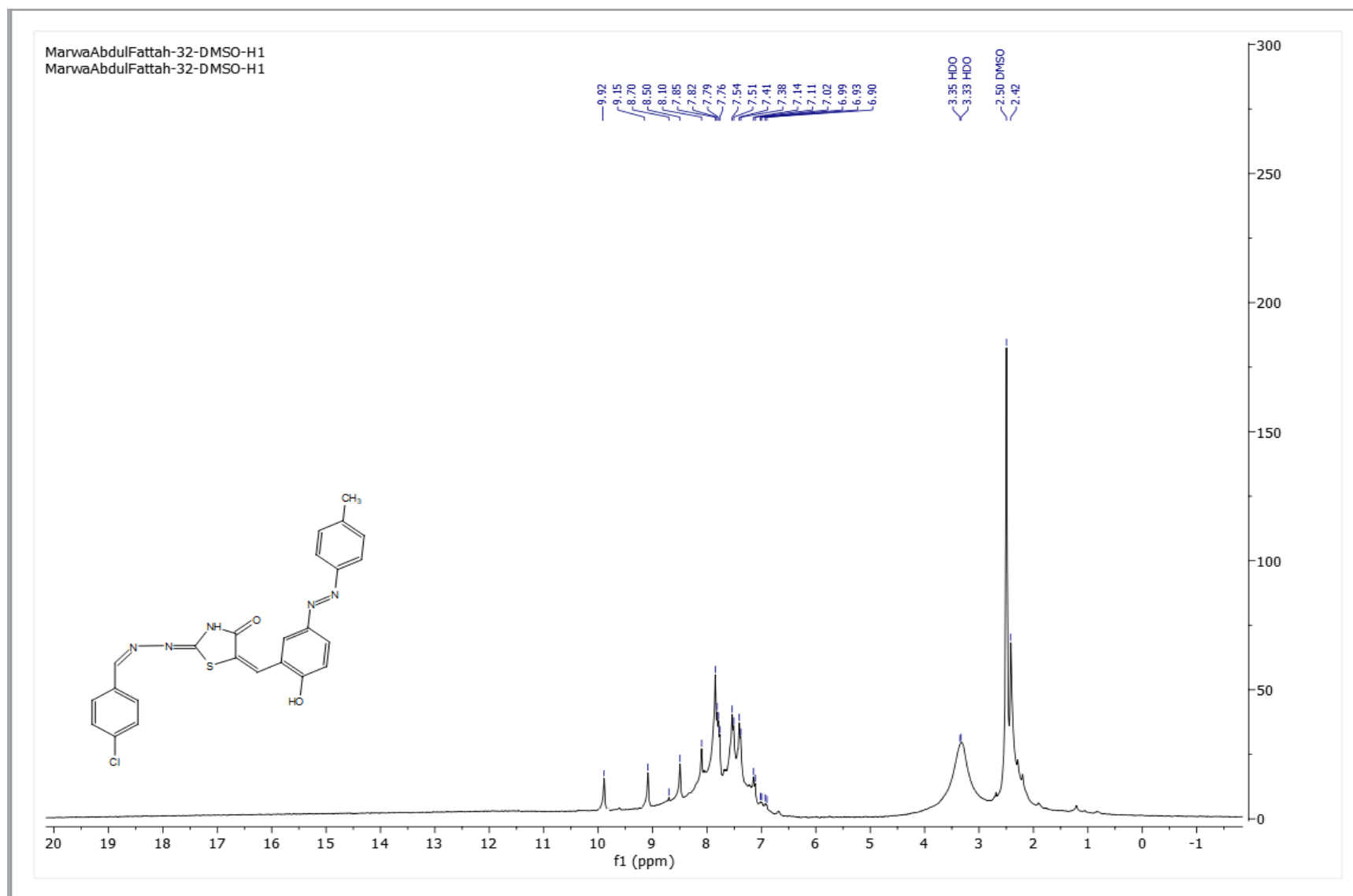


Figure. S4b B: ^1H -NMR spectrum of compound **4b**(dye 2).

6 #111 RT: 1.87 P → NL: 5.75E2
T (0,0) → cEI Full ms [40.00-1000.00]

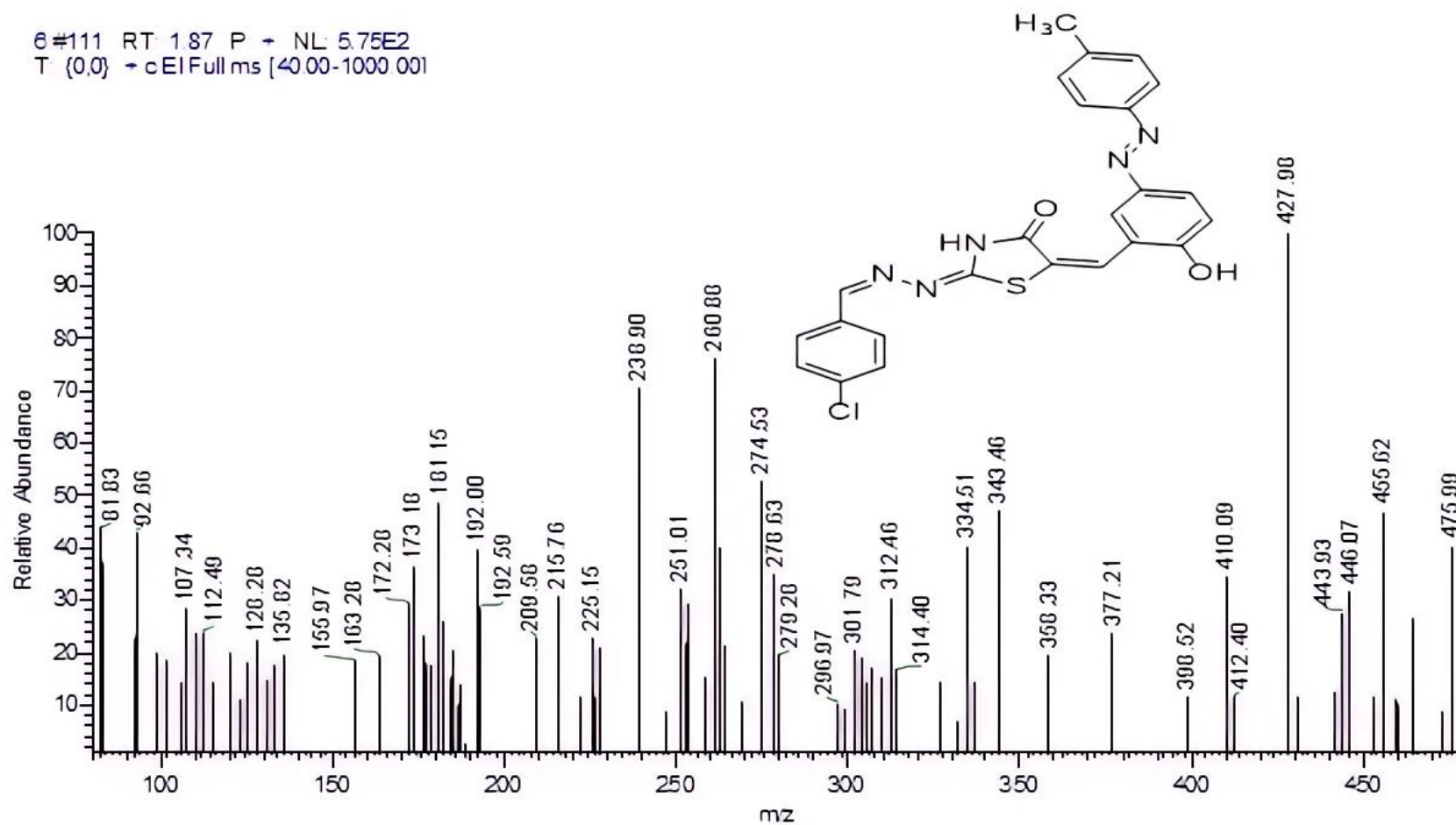


Figure. S4b D: Mass spectrum of compound 4b(dye 2).

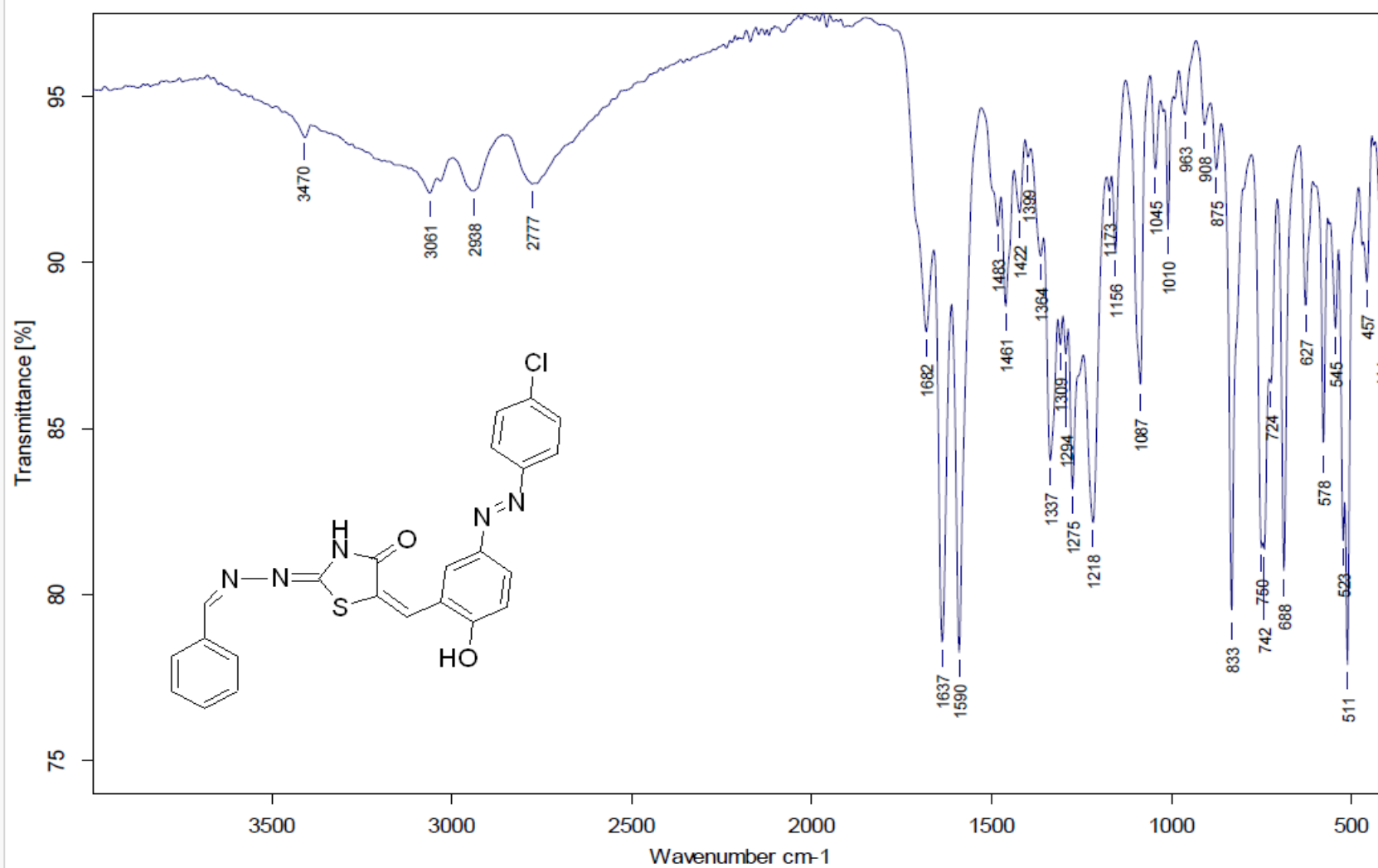


Figure. S5a A: IR spectrum of compound 5a(dye 3).

MareimAbdulFattah-35-DMSO-H1
MareimAbdulFattah-35-DMSO-H1

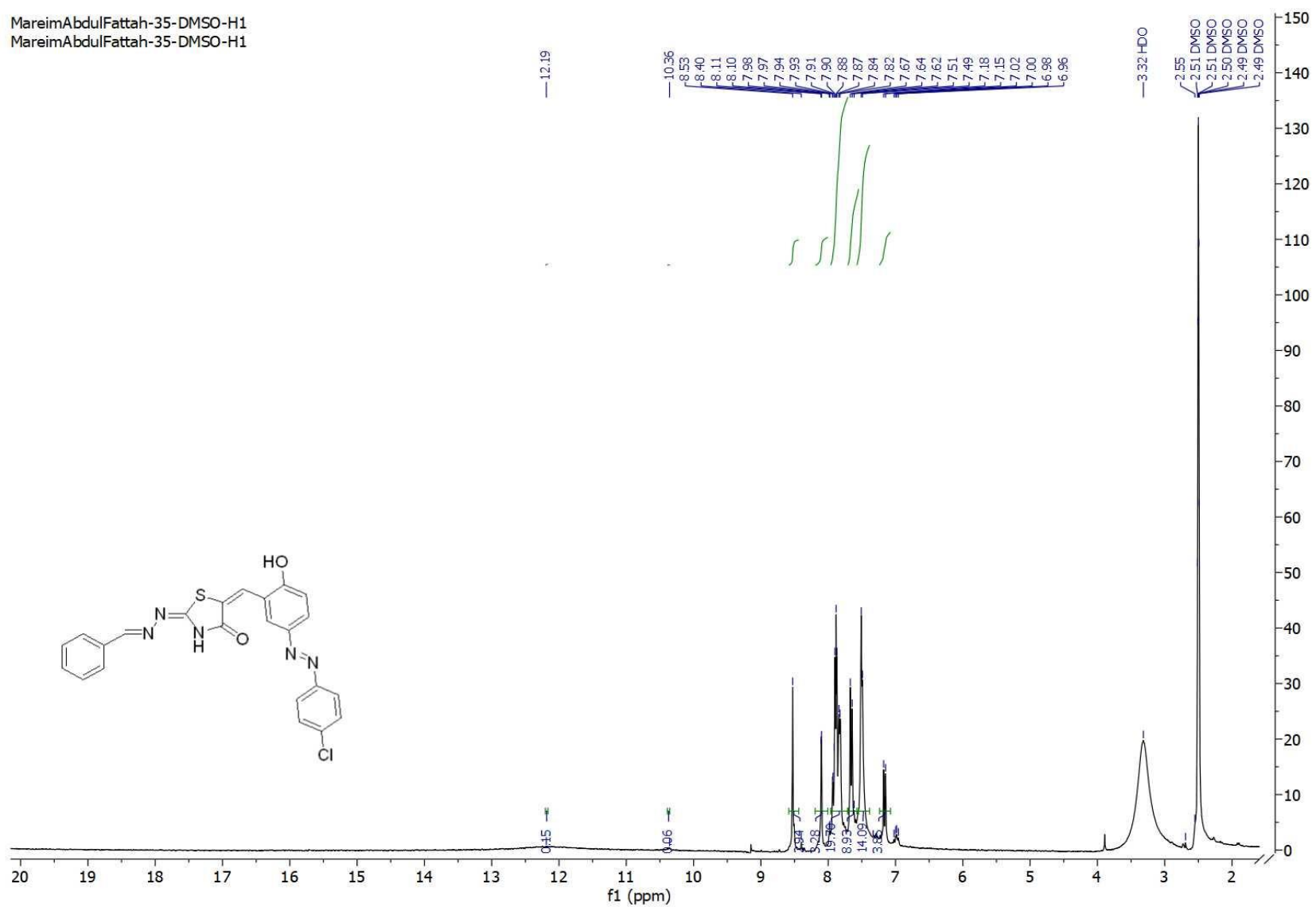


Figure. S5a B: ¹H-NMR spectrum of compound **5a**(dye 3).

MareimAbdElFattah-35-DMSO-C13
 MareimAbdElFattah-35-DMSO-C13

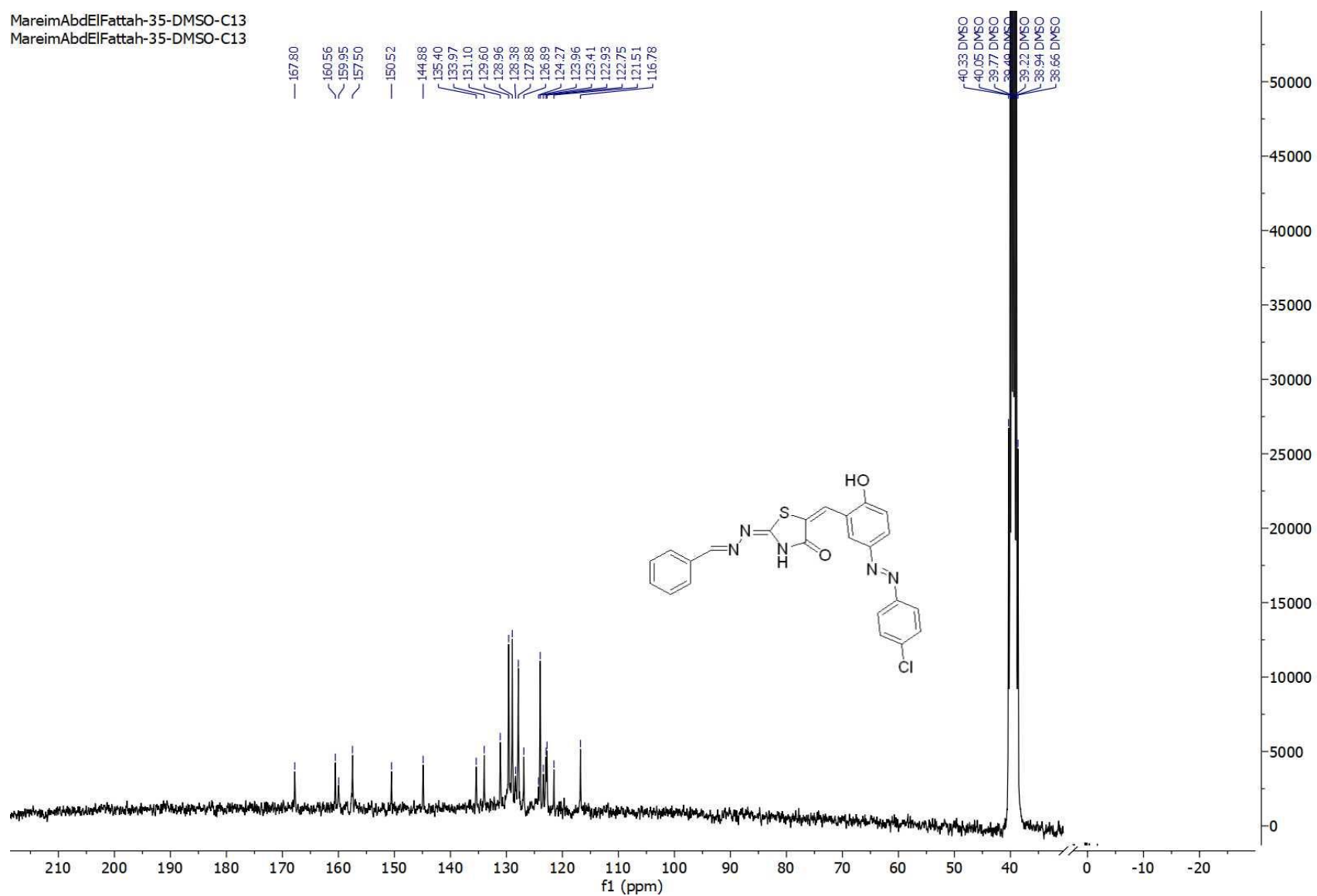


Figure. S5a C: ^{13}C -NMR spectrum of compound **5a** (dye **3**).

7 #66 RT: 1.12 P: + NL: 6.61E2
T: {0,0} + cEI Full ms [40.00-1000.00]

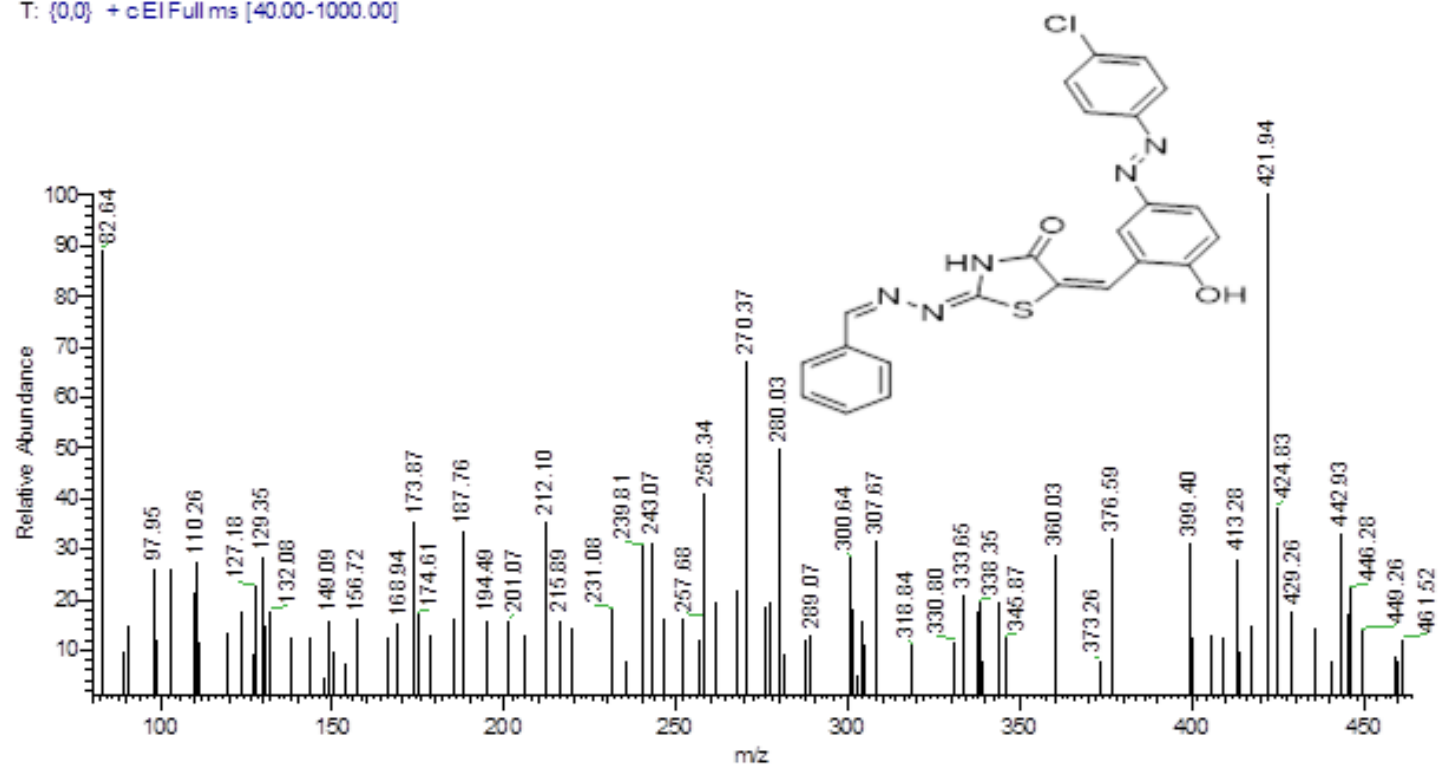


Figure. S5a D: Mass spectrum of compound 5a(dye 3).

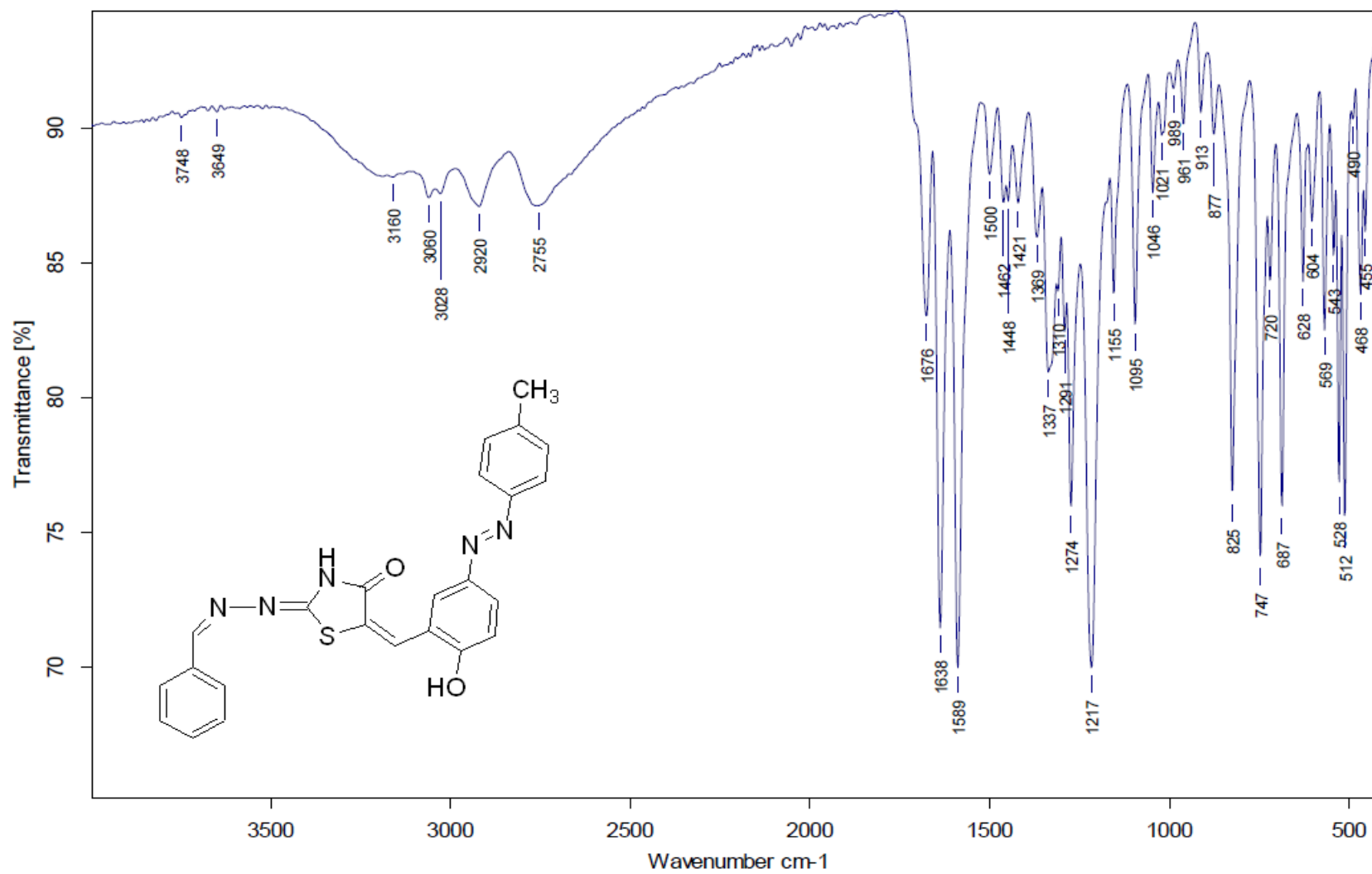


Figure. S5b A: IR spectrum of compound 5b(dye 4).

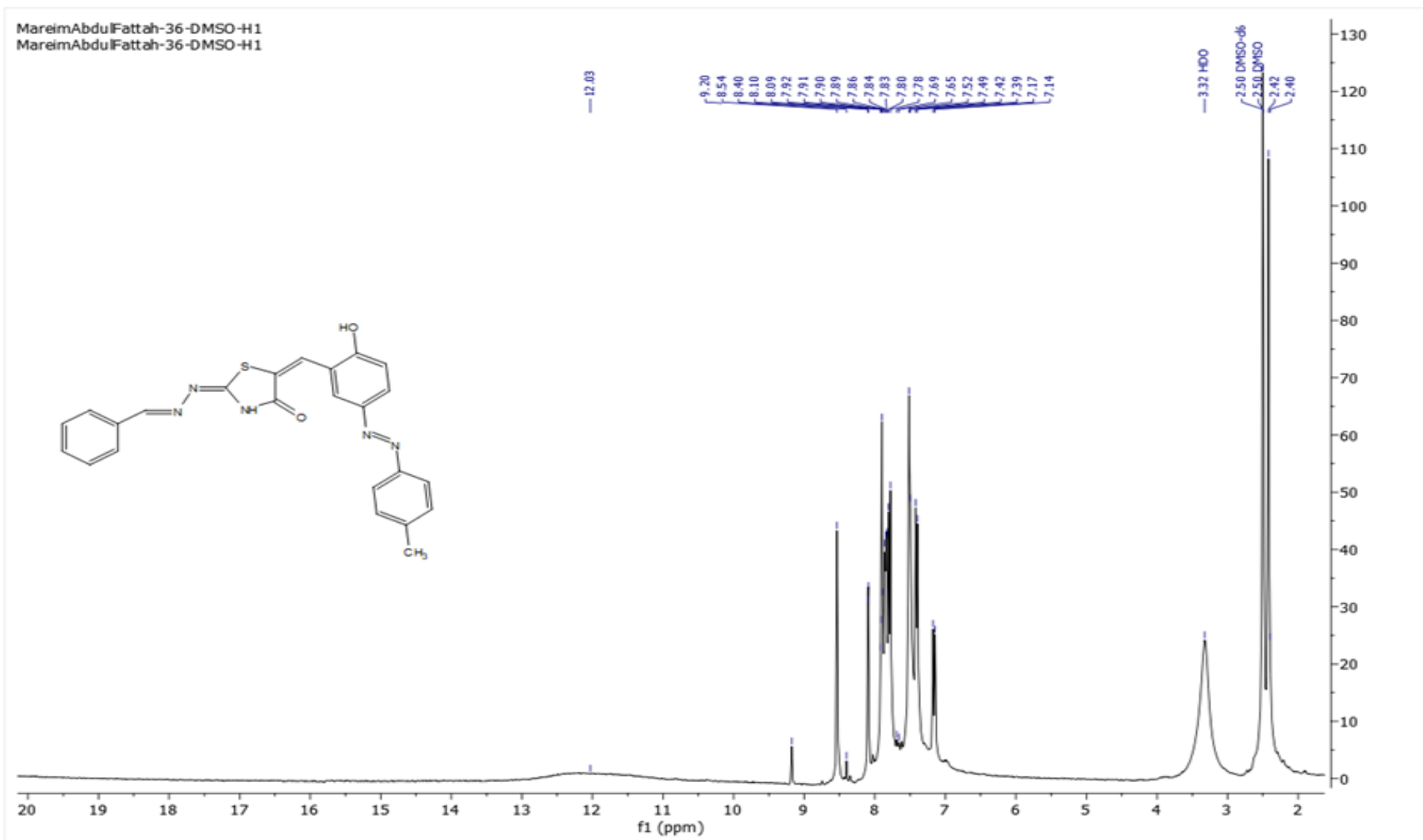


Figure. S5b B: ¹H-NMR spectrum of compound 5B(dye 4).

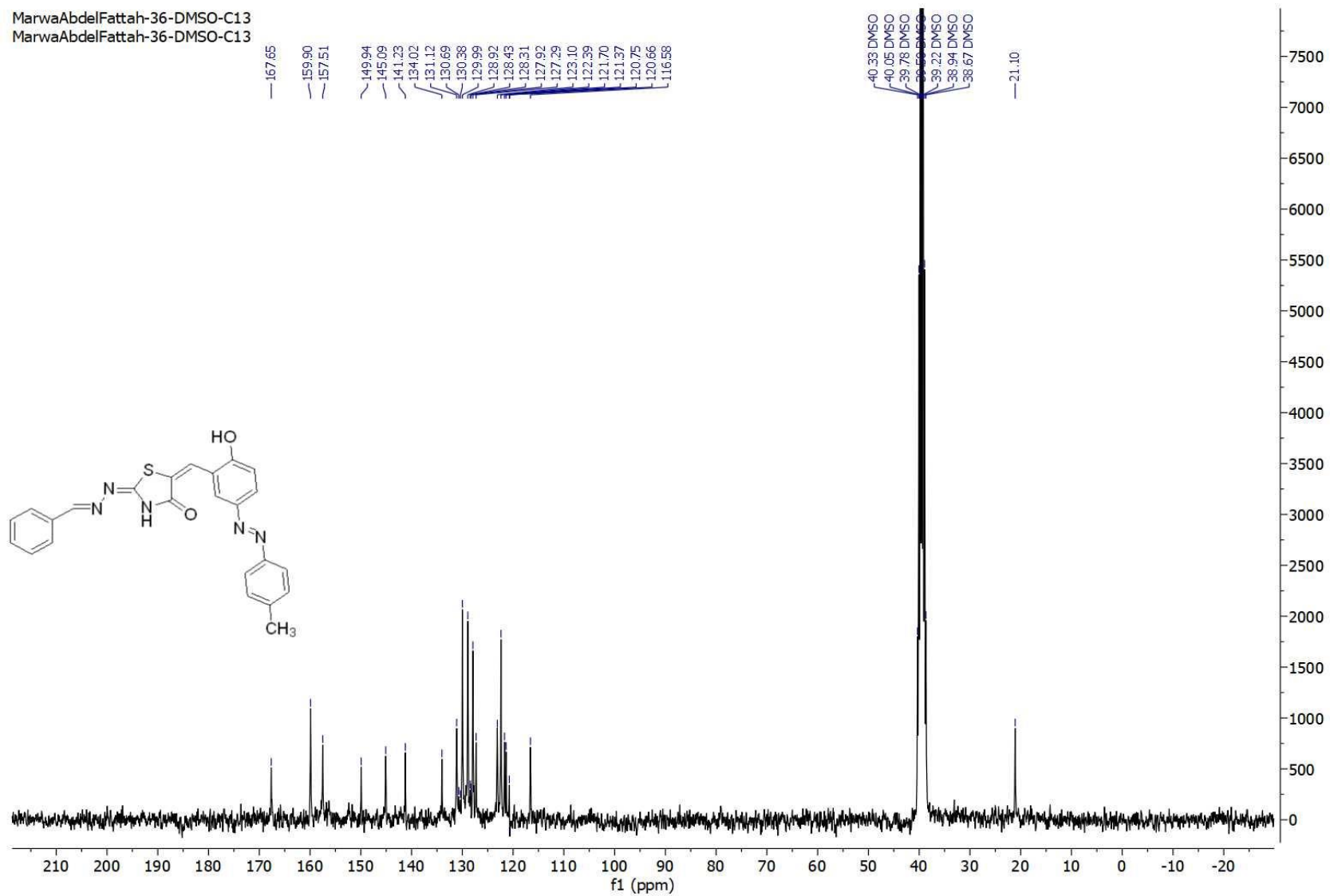


Figure. S5b C: ¹³C-NMR spectrum of compound **5b** (dye **4**).

8.90 RT: 1.52 P → NL 3.14E2
T {0,0} → cEI Full ms [40.00-1000.00]

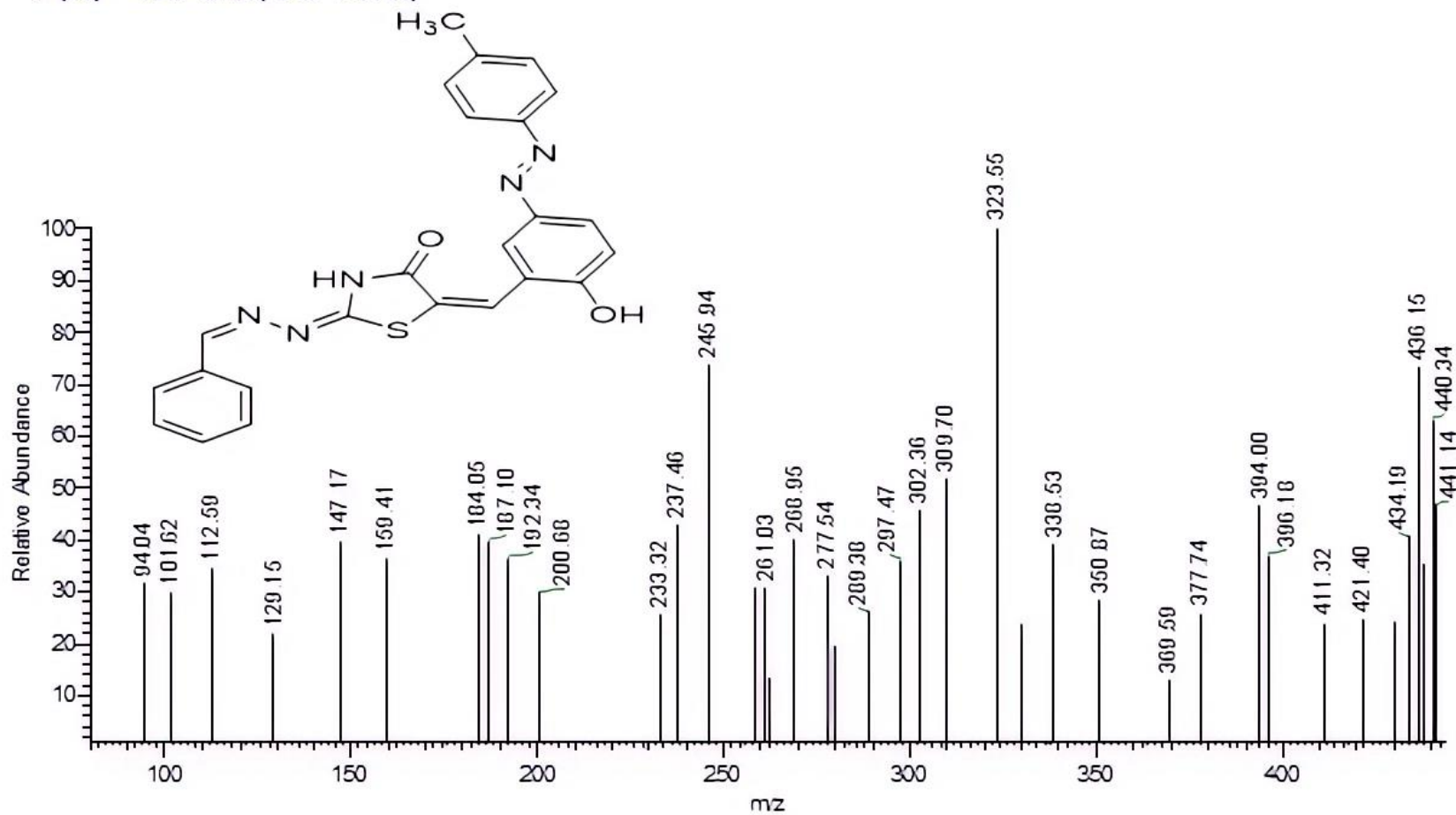


Figure. S5b D: Mass spectrum of compound 5b(dye 4).

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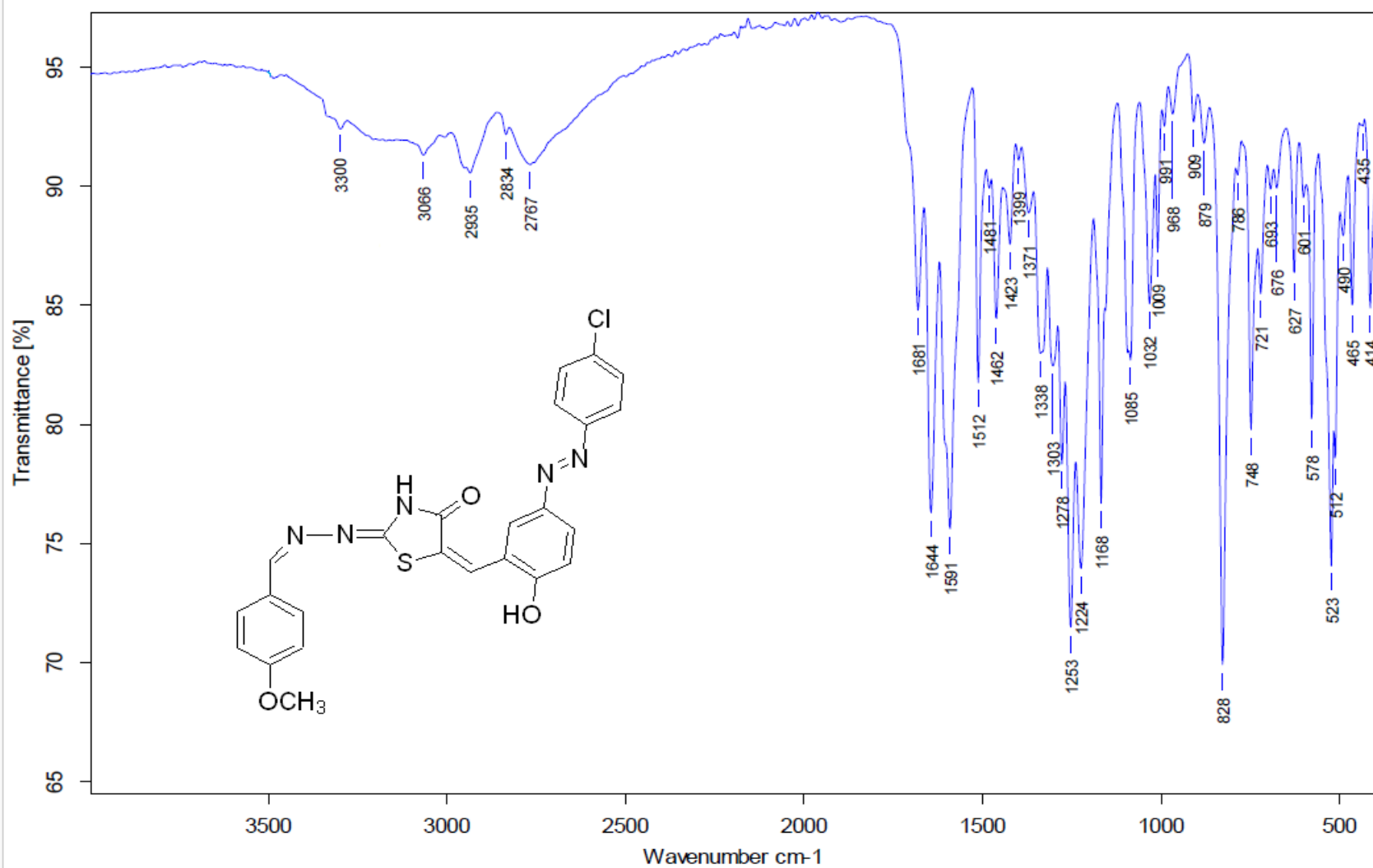


Figure. S6a A: IR spectrum of compound 6a(dye 5).

MareimAbdulFattah-37-DMSO-H1
MareimAbdulFattah-37-DMSO-H1

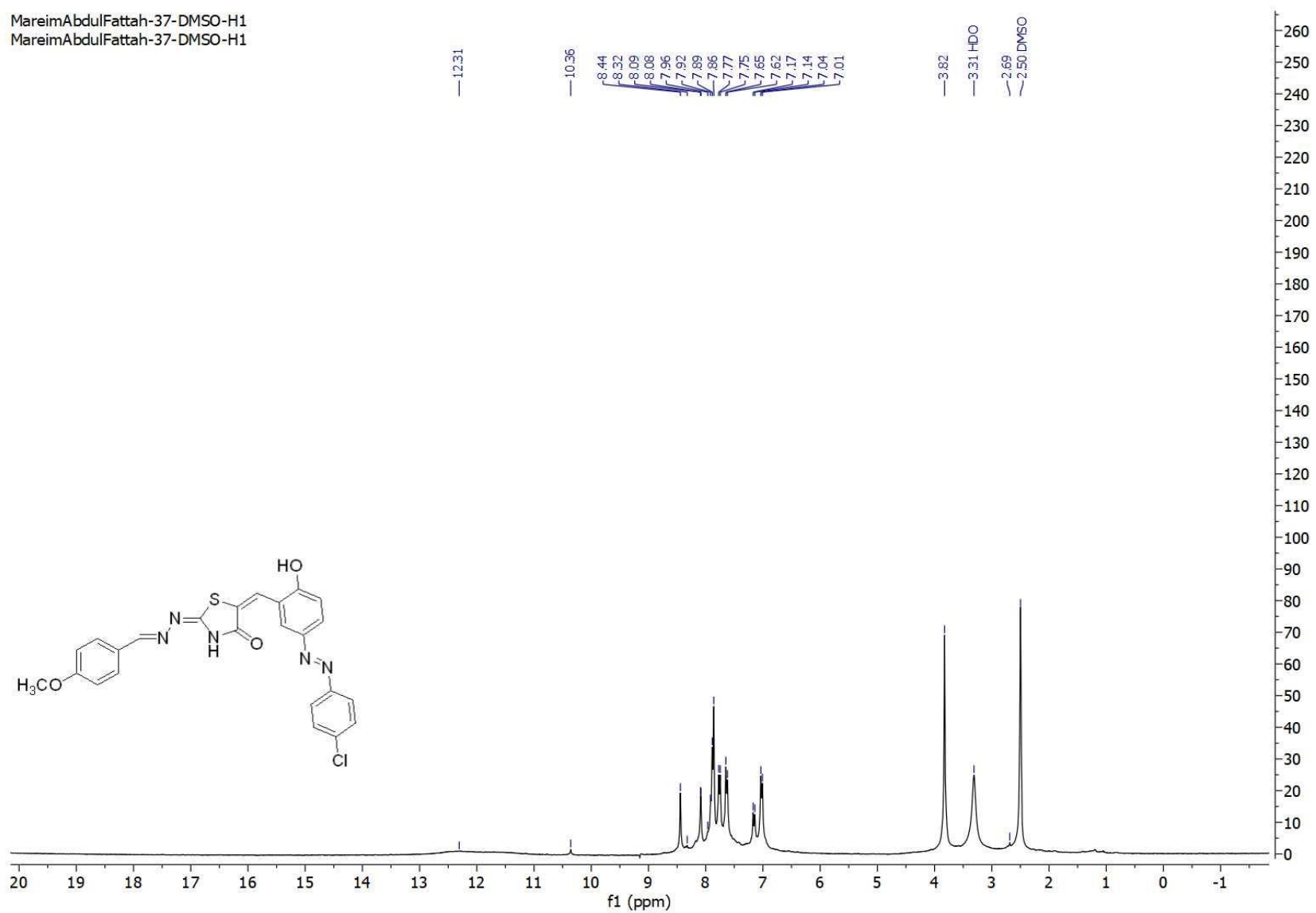


Figure. S6a B: ¹H-NMR spectrum of compound **6a**(dye **5**).

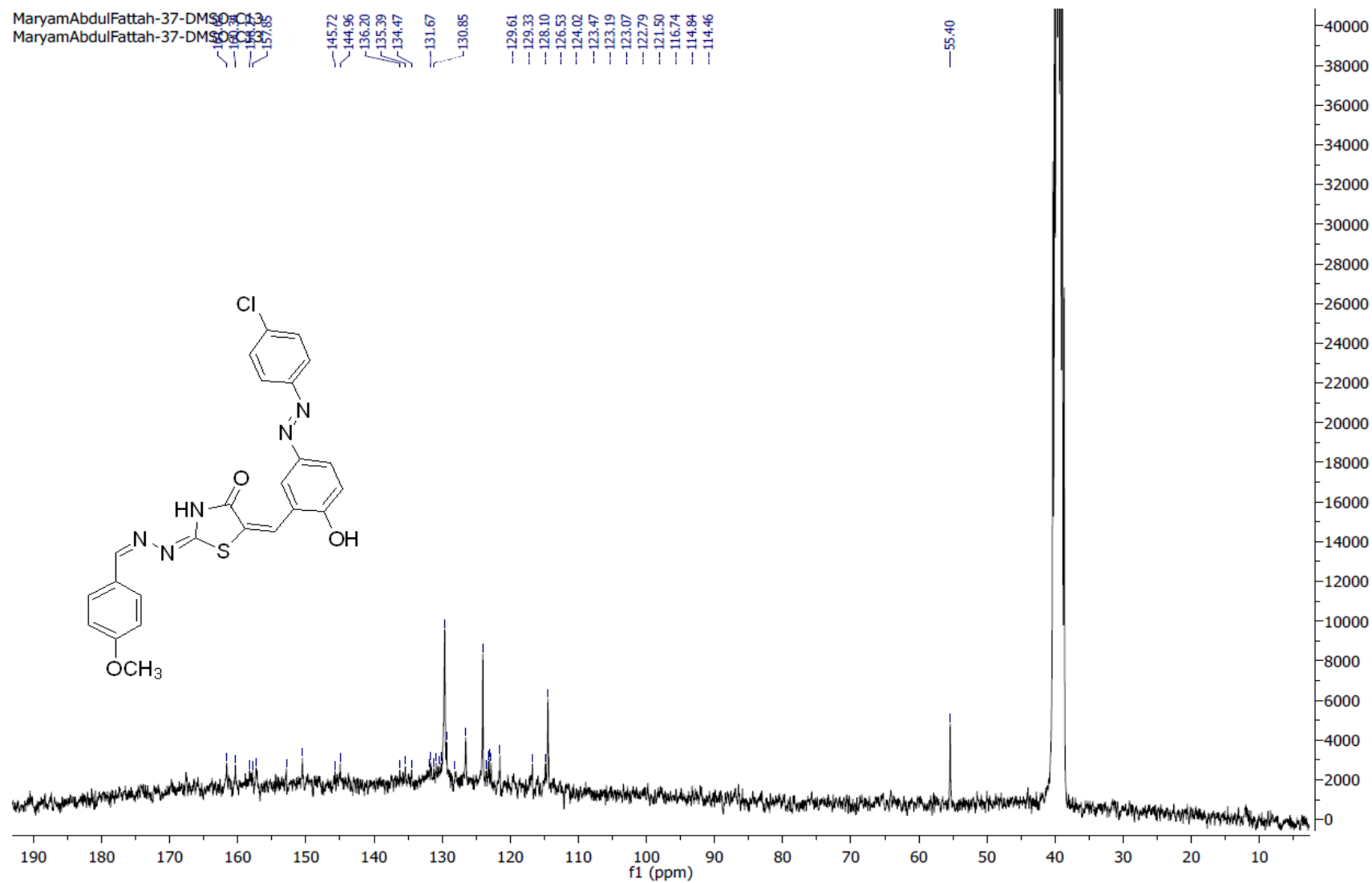


Figure. S6a C: ¹³C-NMR spectrum of compound **6a**(dye **5**).

9#30 RT: 0.52 P → NL: 8.84E2
T: {0,0} → cEI Full ms [40.00-1000.00]

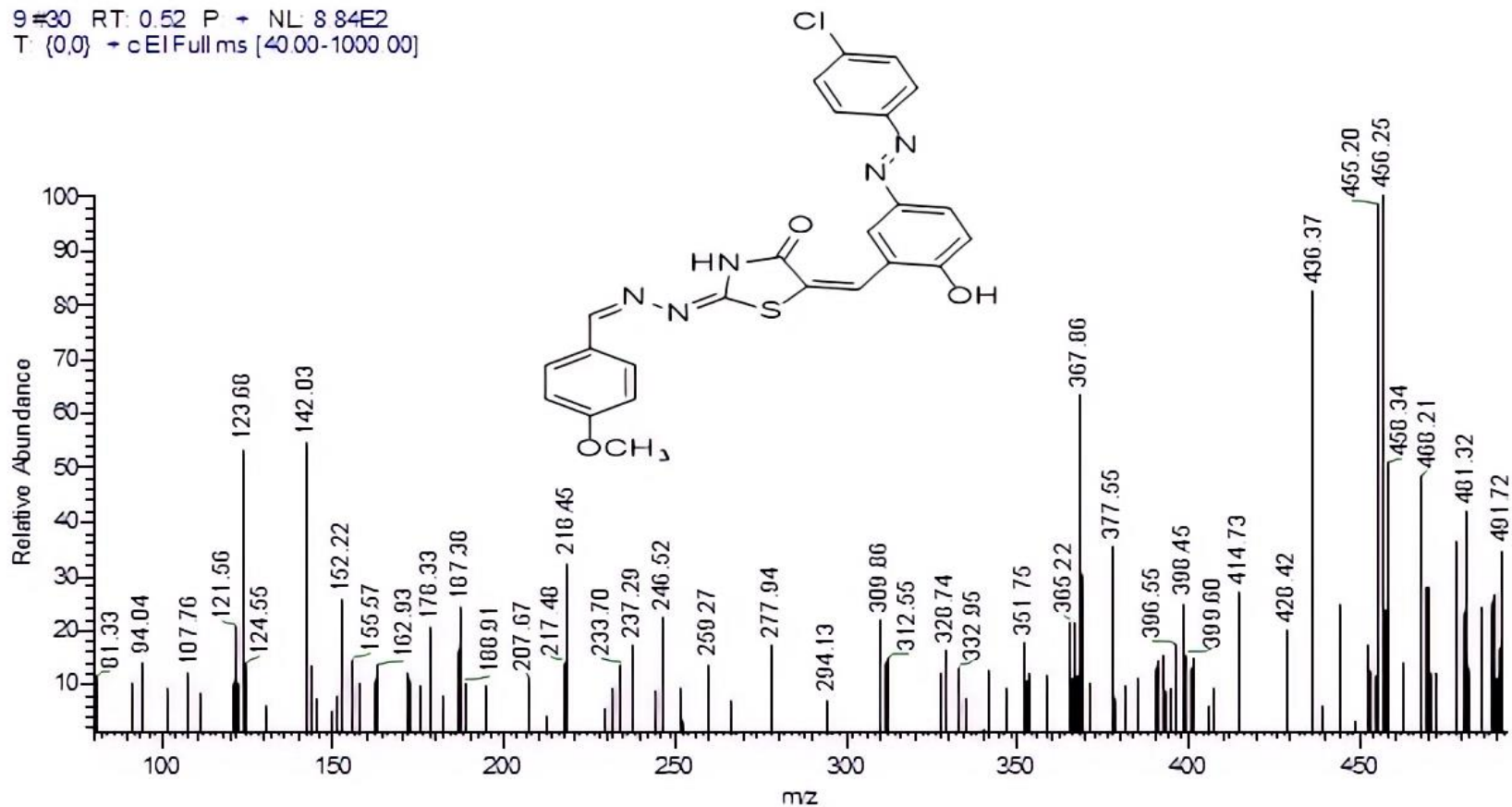


Figure. S6a D: Mass spectrum of compound 6a(dye 5).

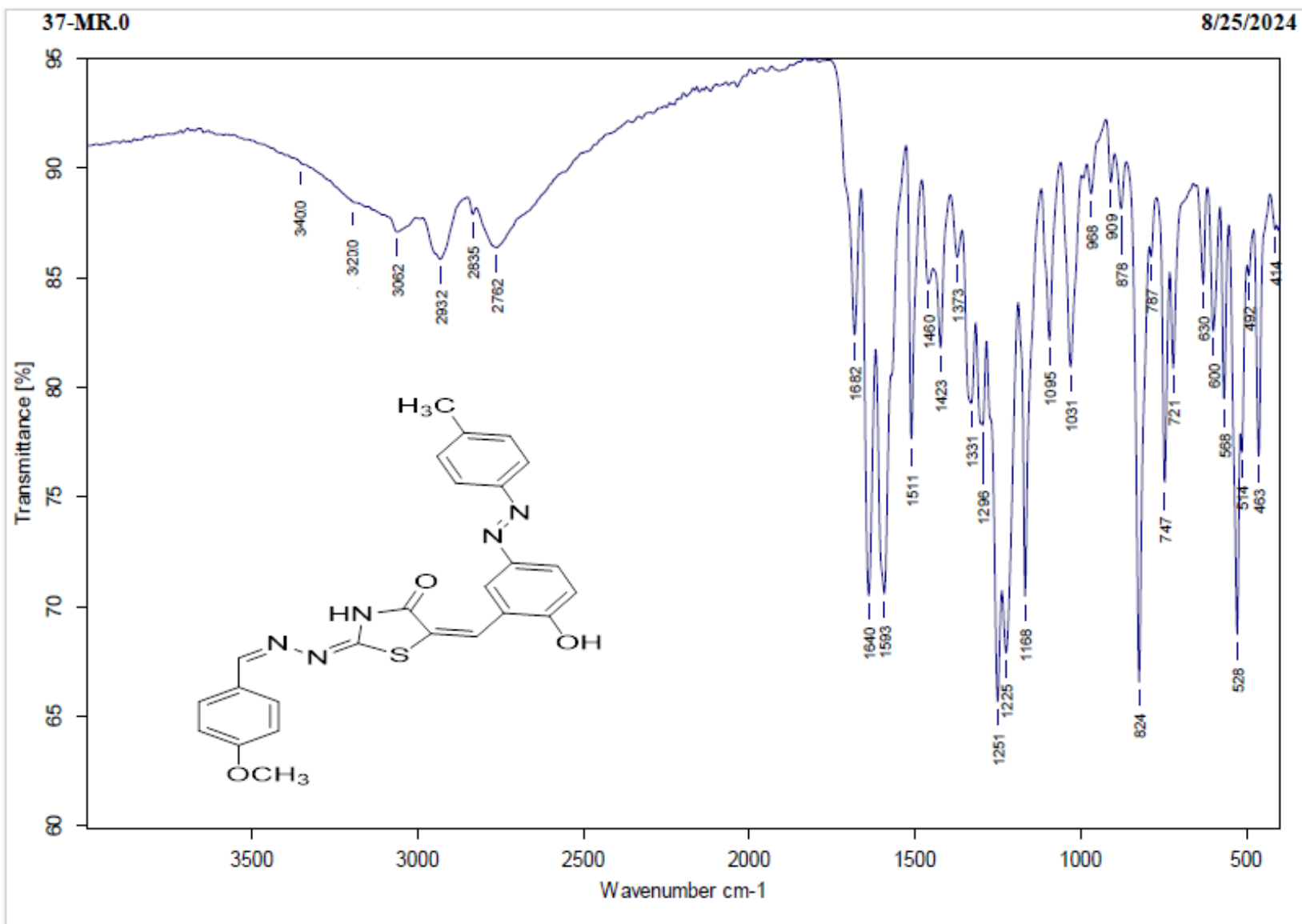


Figure. S6b A: IR spectrum of compound **6ab(dye 6)**.

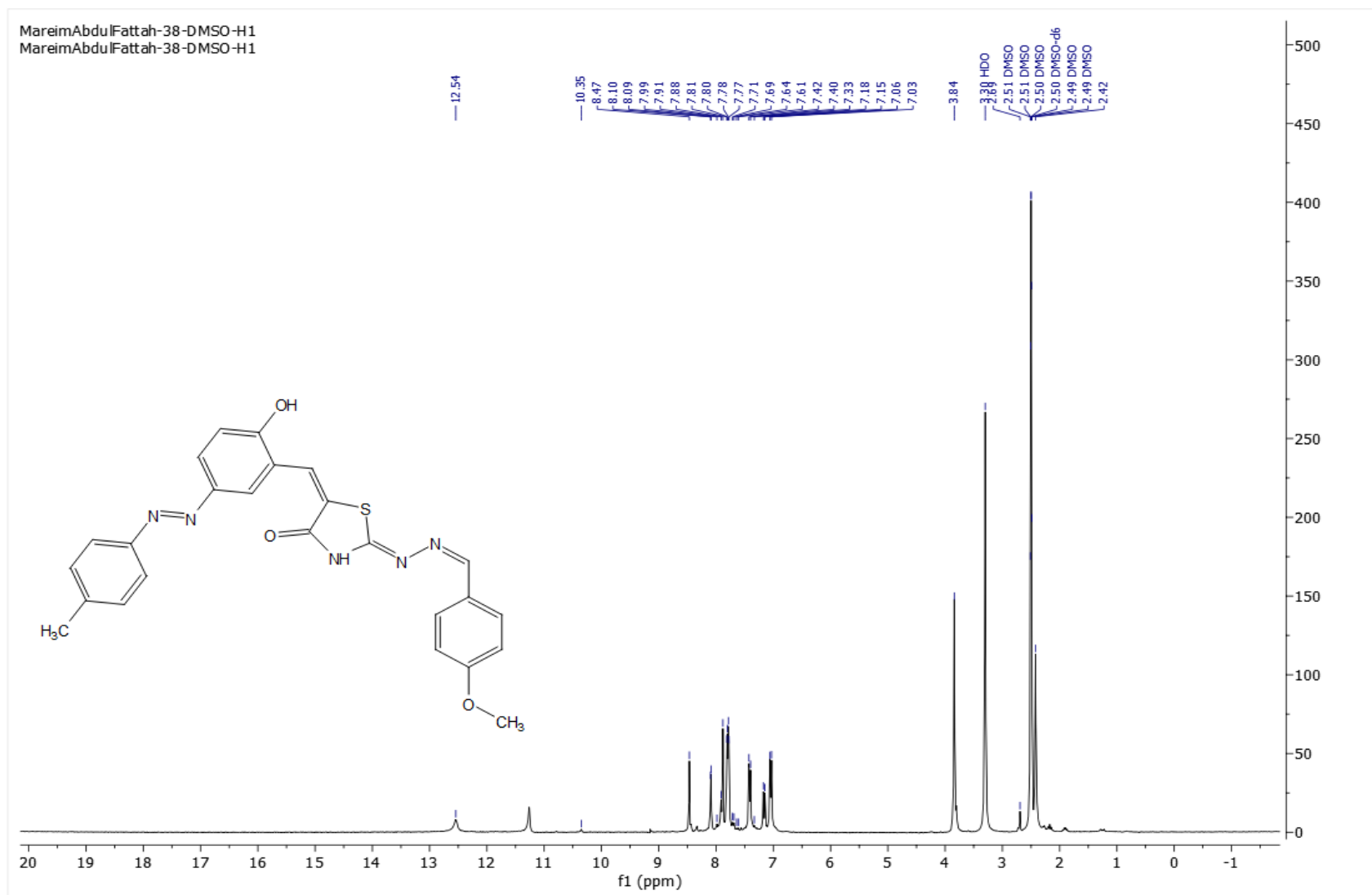


Figure. S6b B: ¹H-NMR spectrum of compound **6b**(dye **6**).

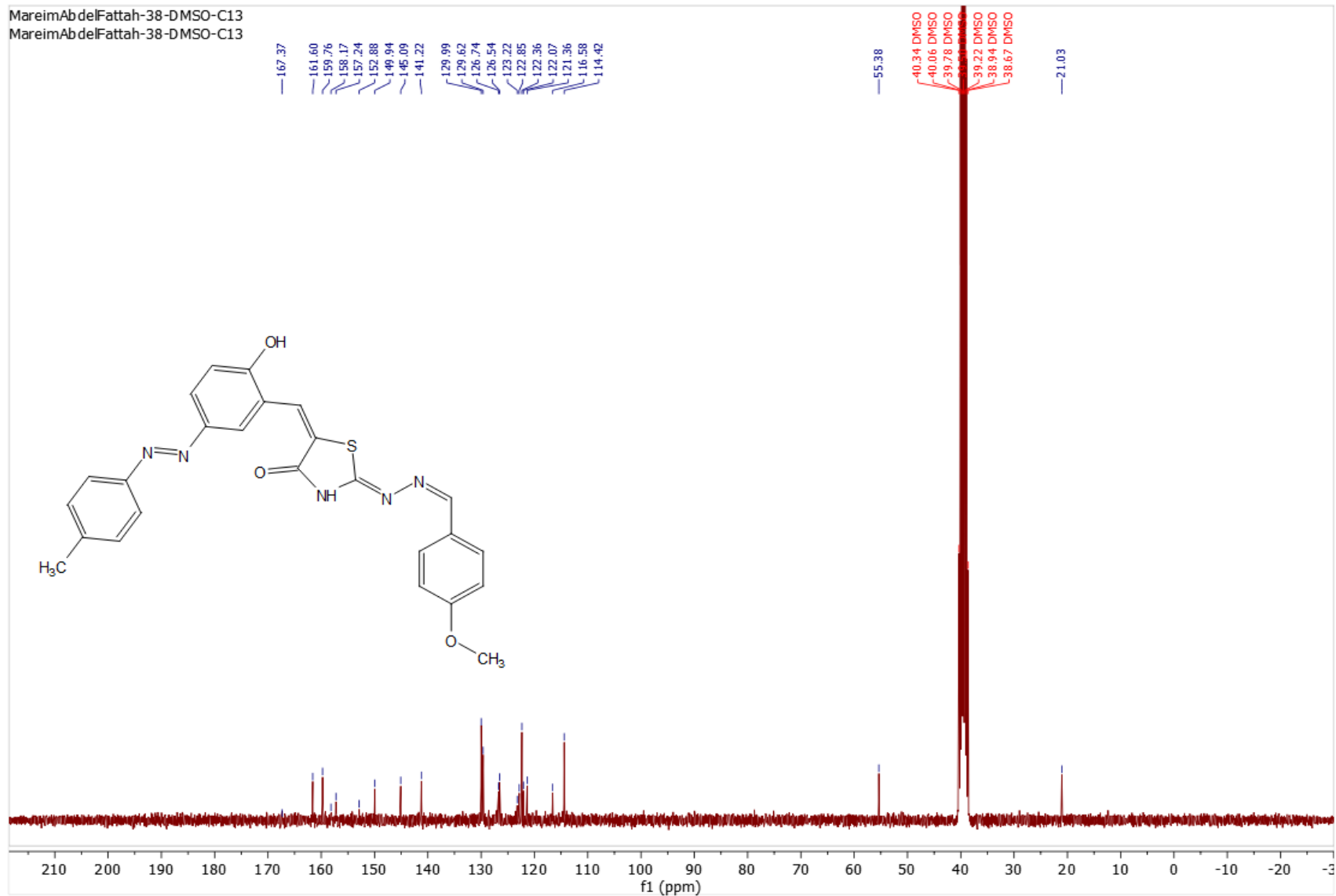


Figure. S6b C:¹³C-NMR spectrum of compound **6b**(dye **6**).

10#125 RT: 2.11 P → NL: 5.55E2
T: (0.0) → cEI Full ms [40.00-1000.00]

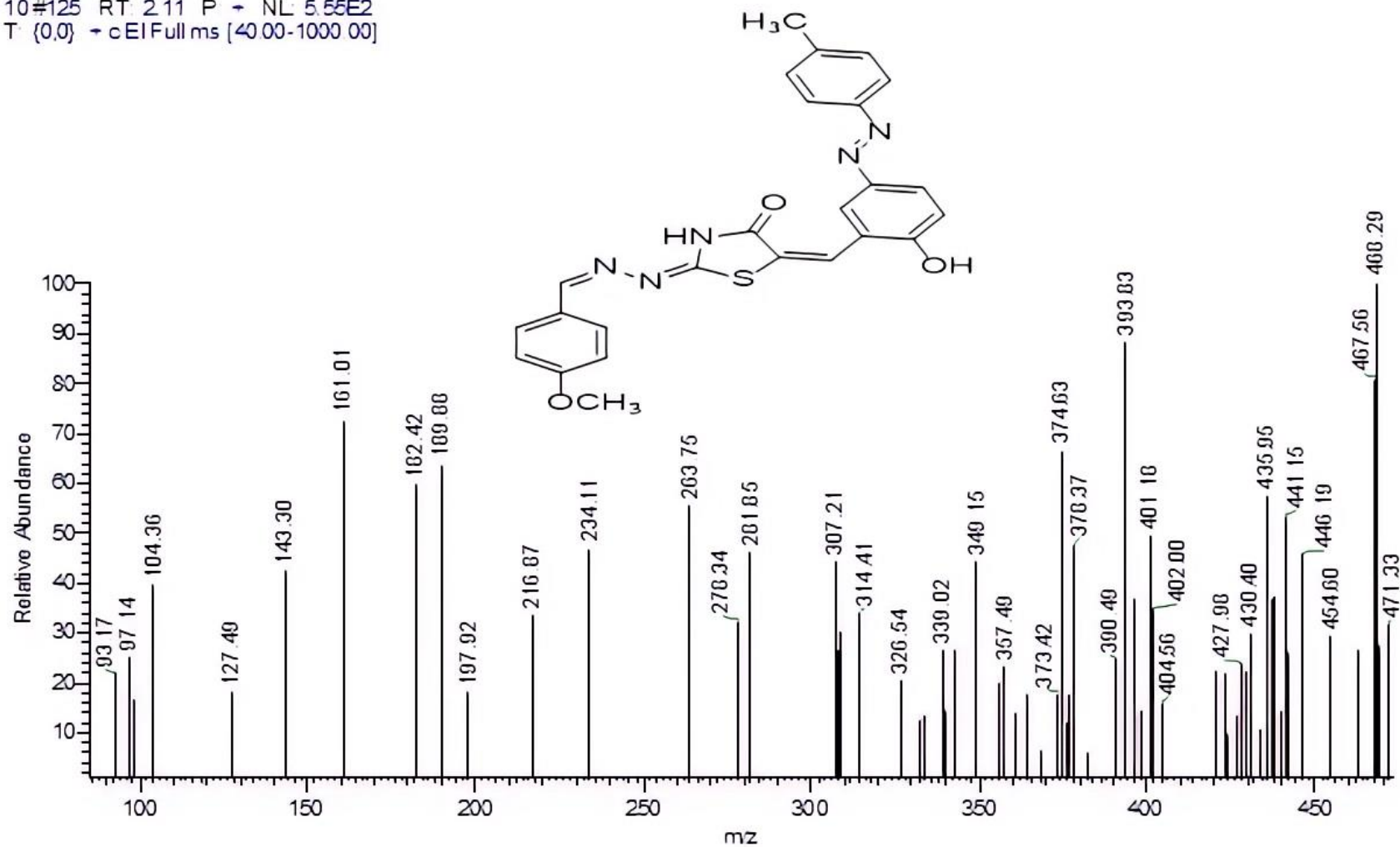


Figure. S6b D: Mass spectrum of compound **6b(dye 6)**.

