

Supplementary Information

Synthesis and antimicrobial activity of novel pyrazole nucleus containing
4-oxothiazolidine acetate derivatives

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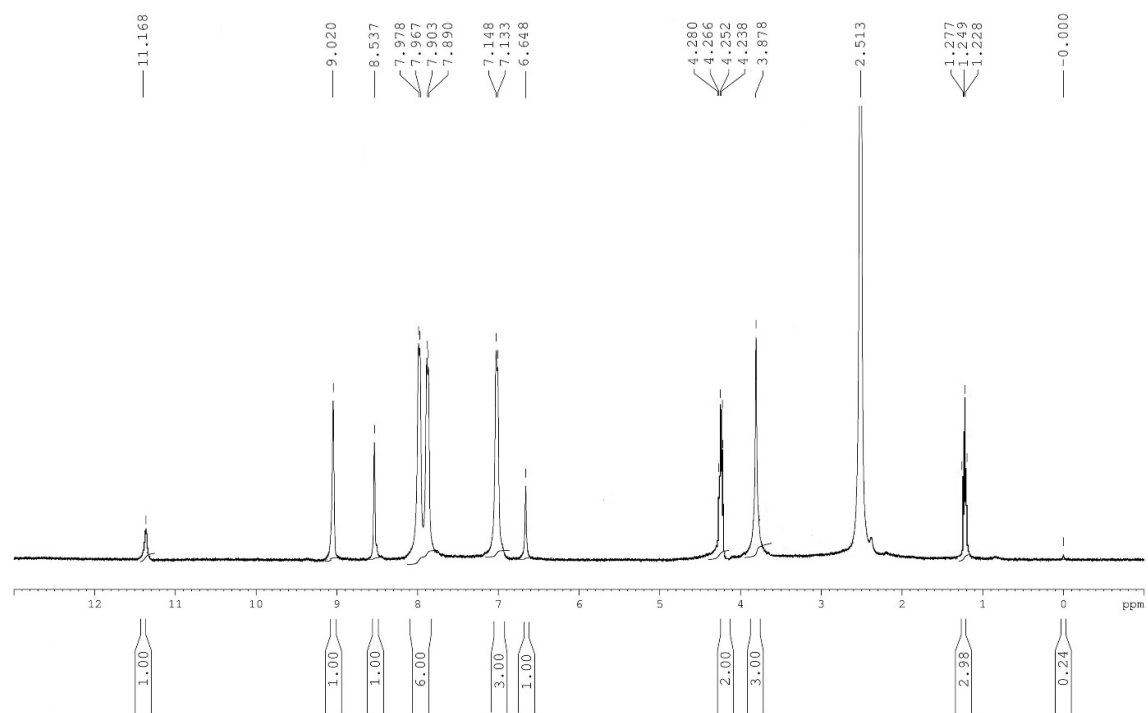
Copies of ^1H NMR and ^{13}C NMR Spectra of **4a**, **4b**, **4c**, and **4d**

Copies of Mass Spectra of **4a**, **4b**, **4c**, **4d**, **4e**, and **4f**

Copies of IR Spectra of **4a**, **4b**, **4c**, **4d**, **4e**, **4f**, **4g**, **4h**, **4i**, **4j**, **4k**, **4l**, and **4m**

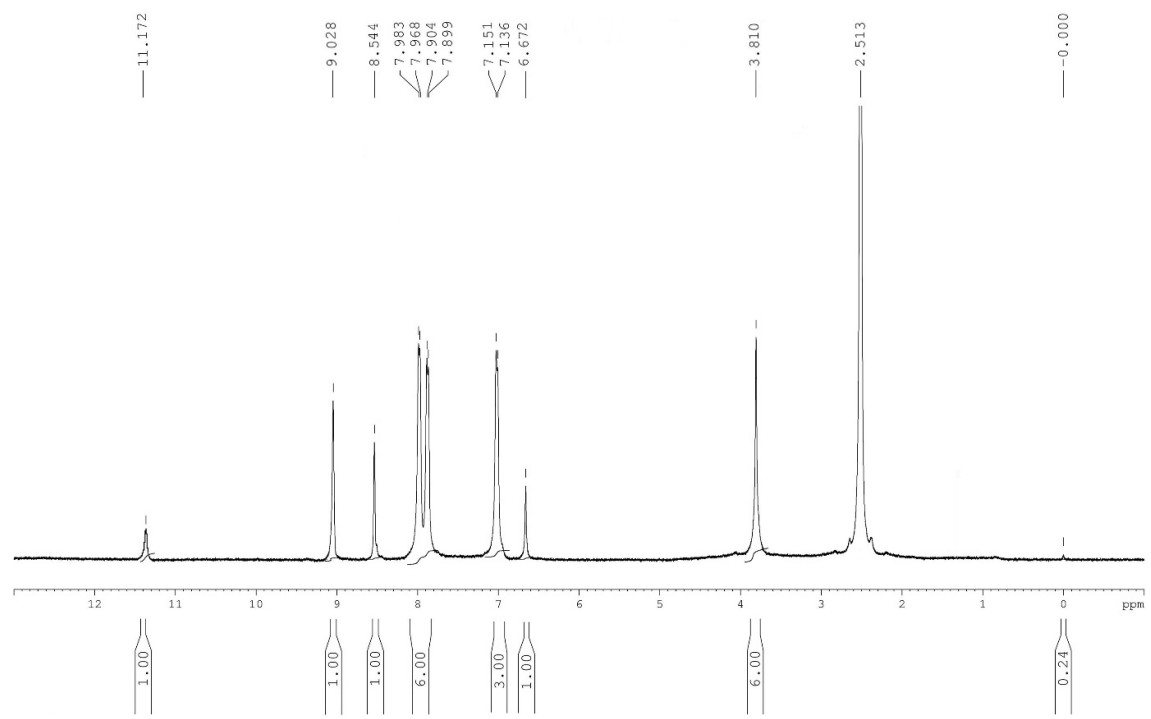
¹H NMR spectrum of compound 4a

4a
PROTON DMSO E:\da



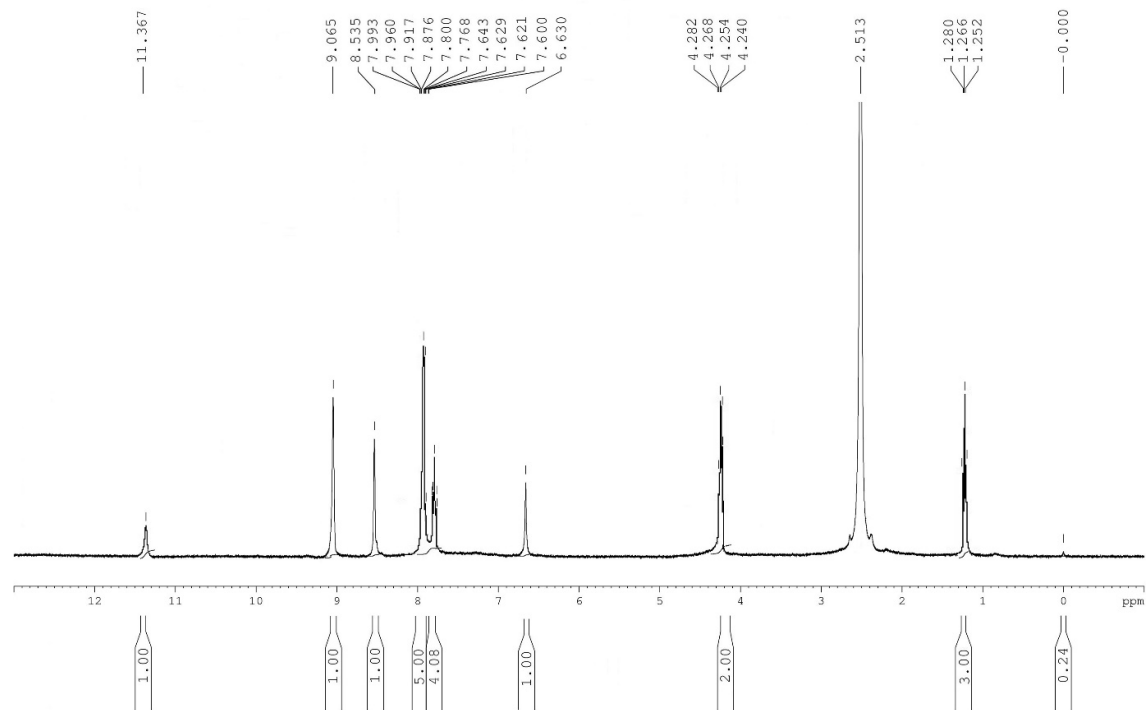
¹H NMR spectrum of compound 4b

4b
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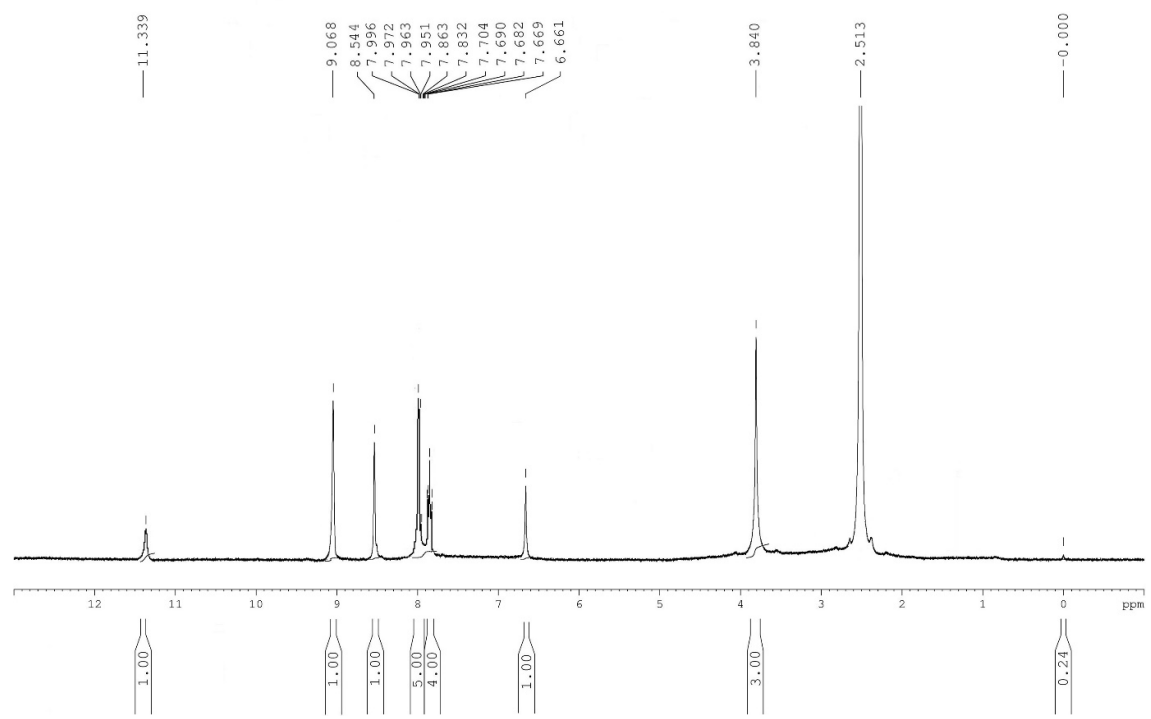
¹H NMR spectrum of compound 4c

4c
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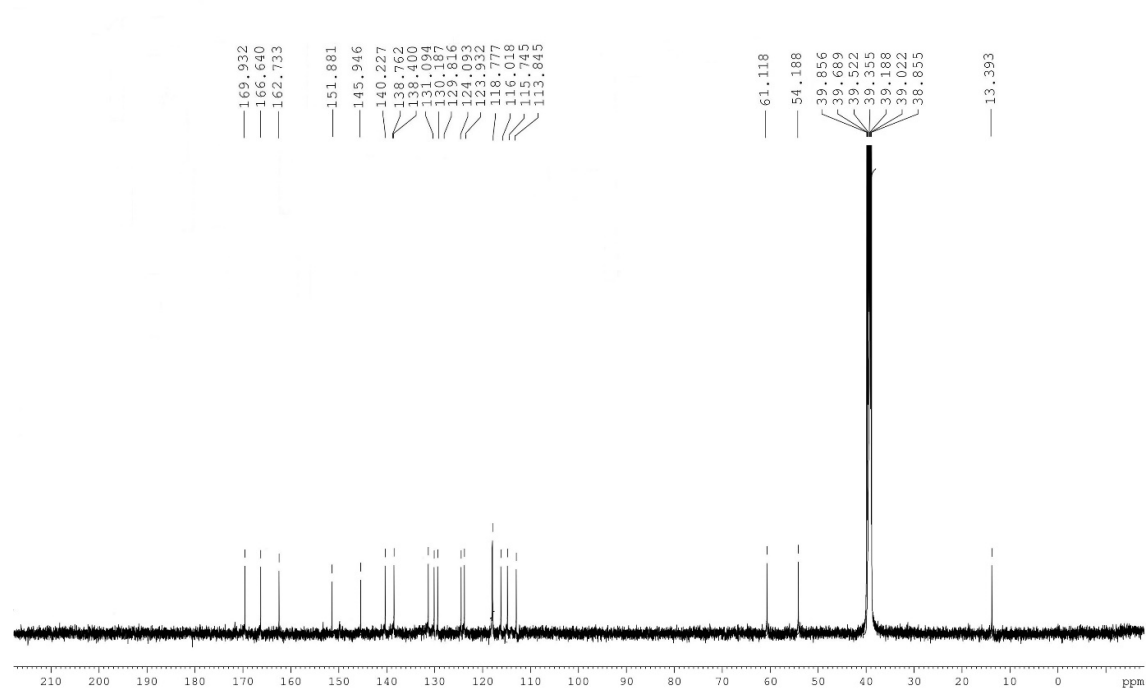


¹H NMR spectrum of compound 4d

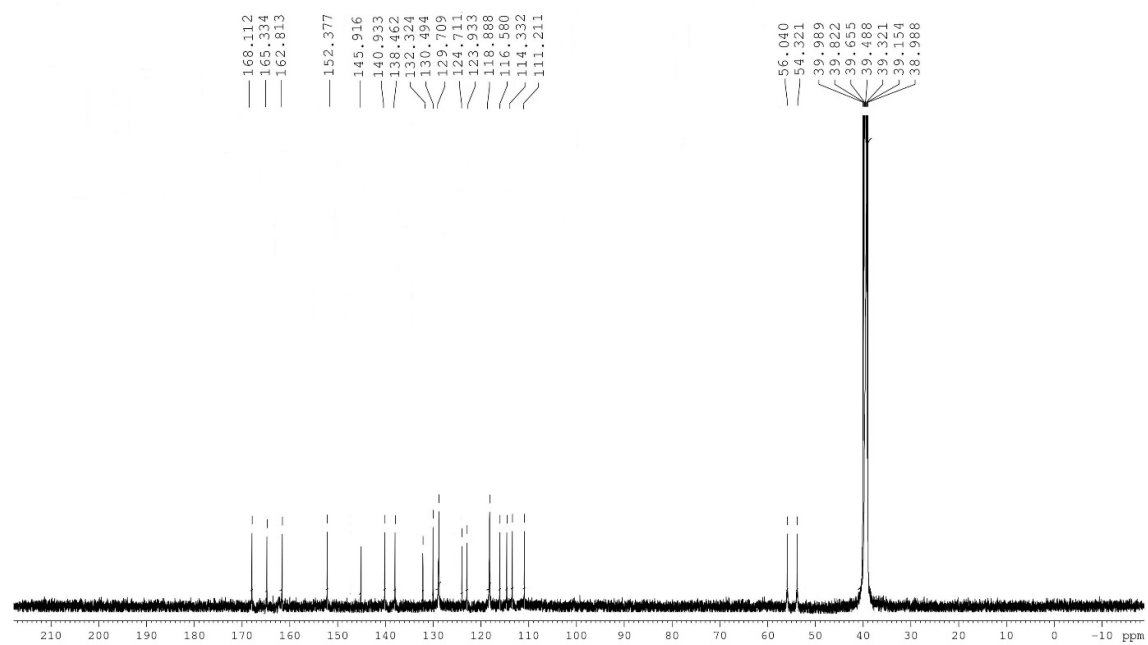
4d
PROTON DMSO E:\da



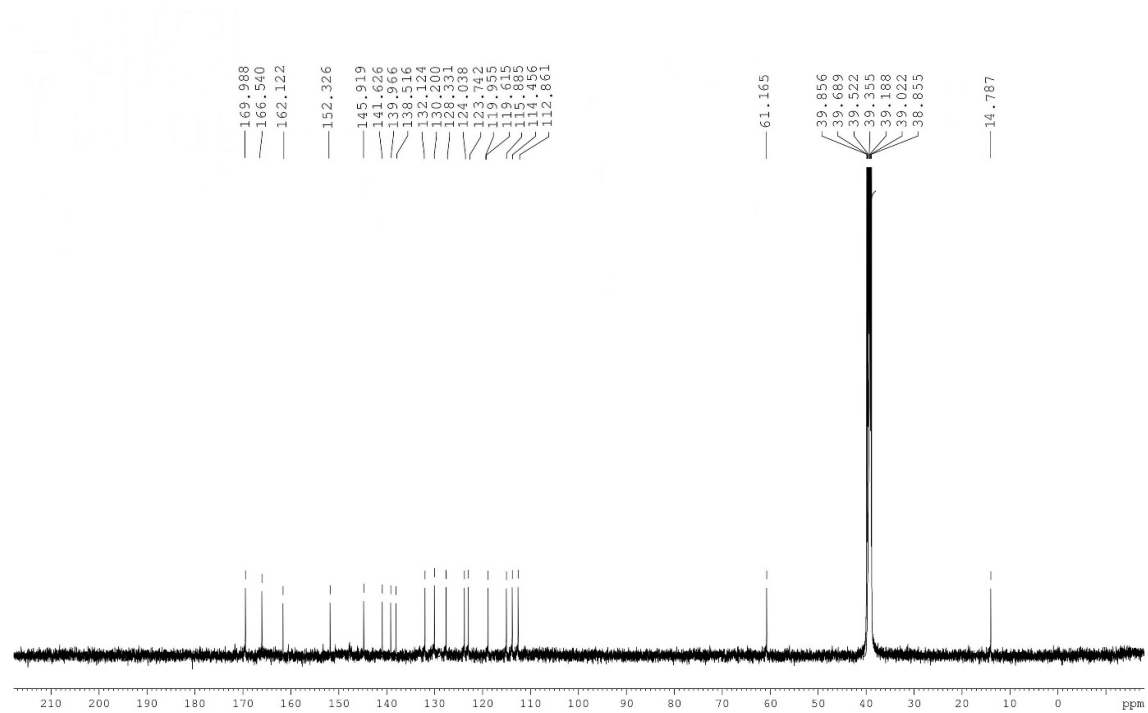
^{13}C NMR spectrum of compound 4a



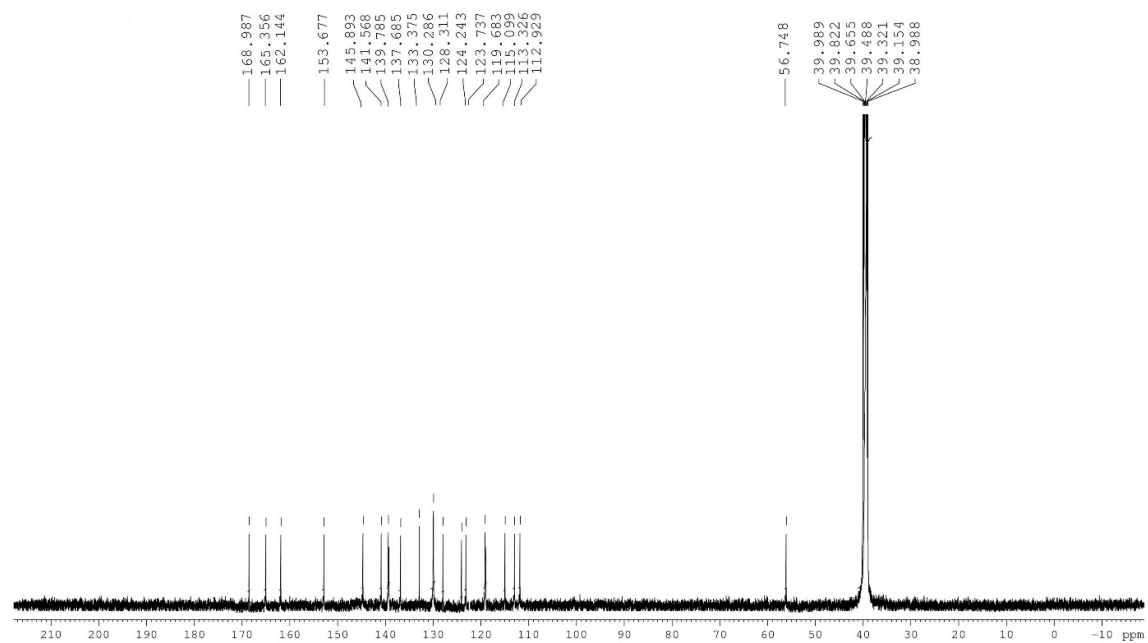
^{13}C NMR spectrum of compound 4b



^{13}C NMR spectrum of compound 4c



^{13}C NMR spectrum of compound 4d



Mass spectrum of compound 4a

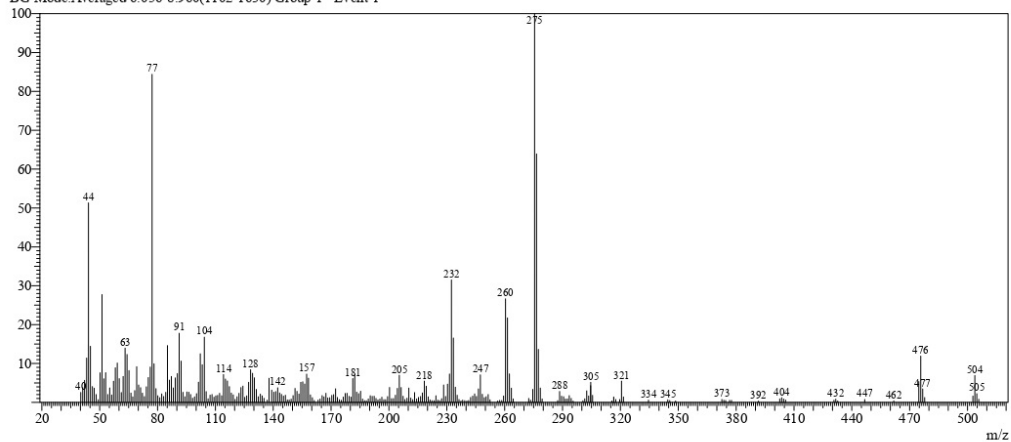
Spectrum

Line# 1 R.Time:5.049(Scan#:919)

MassPeaks:278

RawMode:Averaged 4.505-5.902(820-1074) BasePeak:275(140806)

BG Mode:Averaged 6.056-8.960(1102-1630) Group 1 - Event 1



Mass spectrum of compound 4b

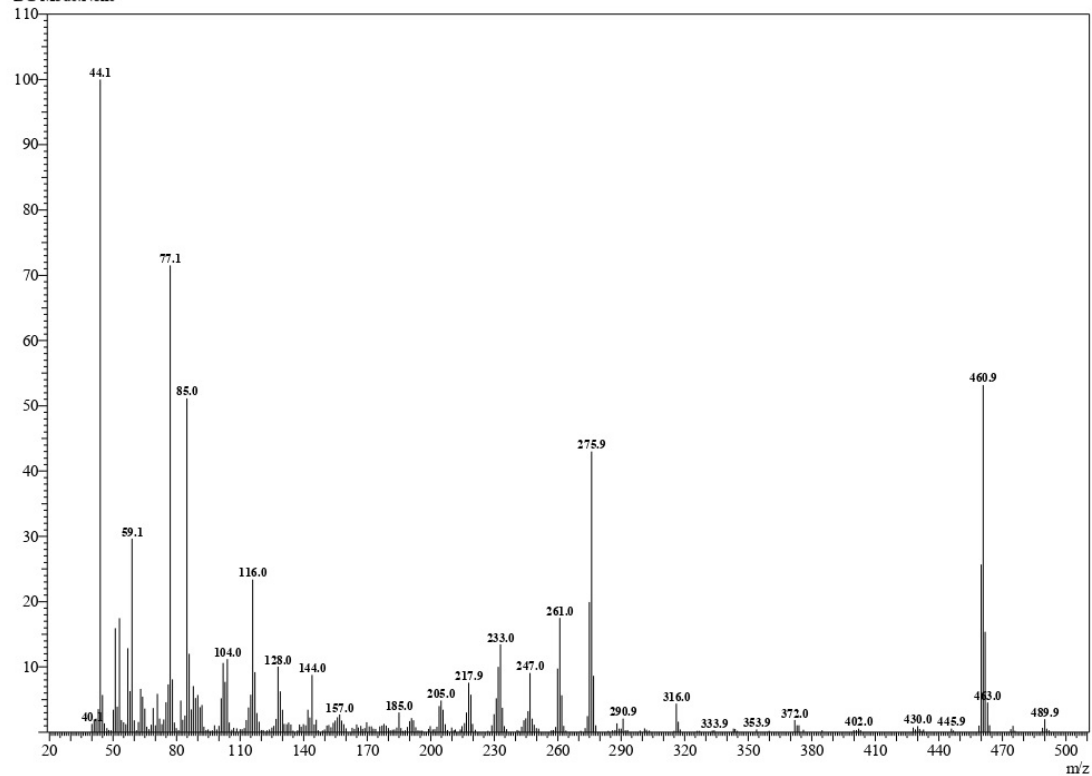
Spectrum

Line# 1 R.Time:3.7(Scan#:739)

MassPeaks:262 BasePeak:44(289134)

RawMode:Single 3.7(739)

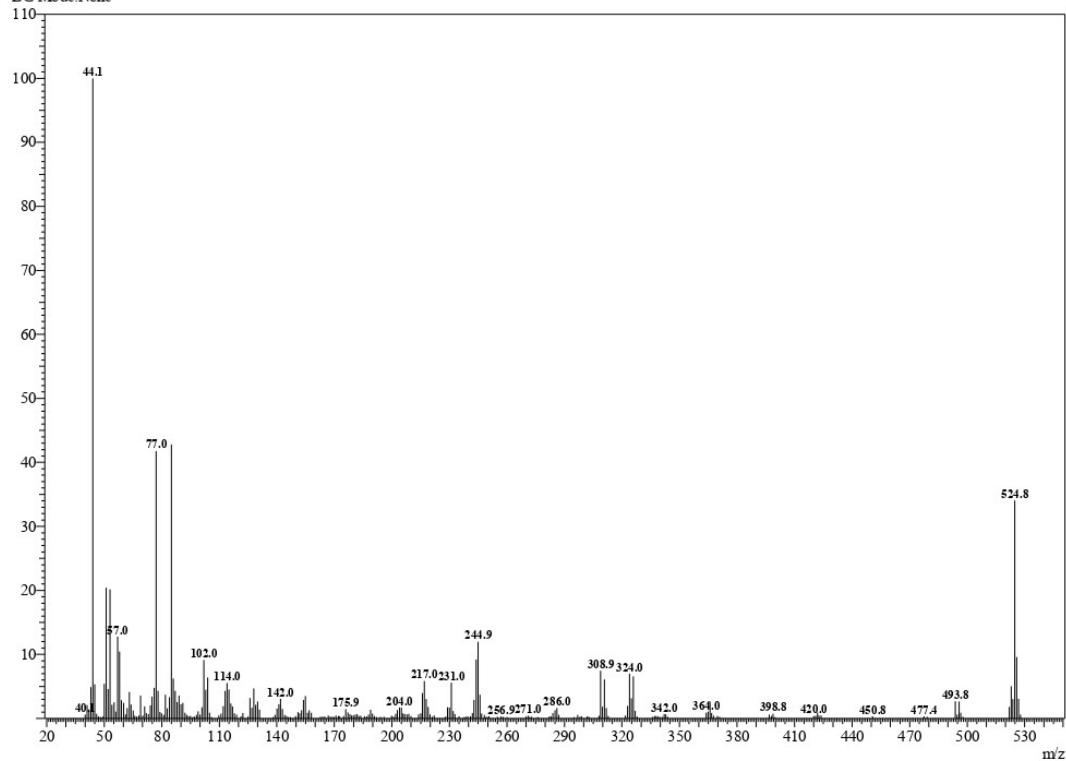
BG Mode:None



Mass spectrum of compound 4c

Spectrum

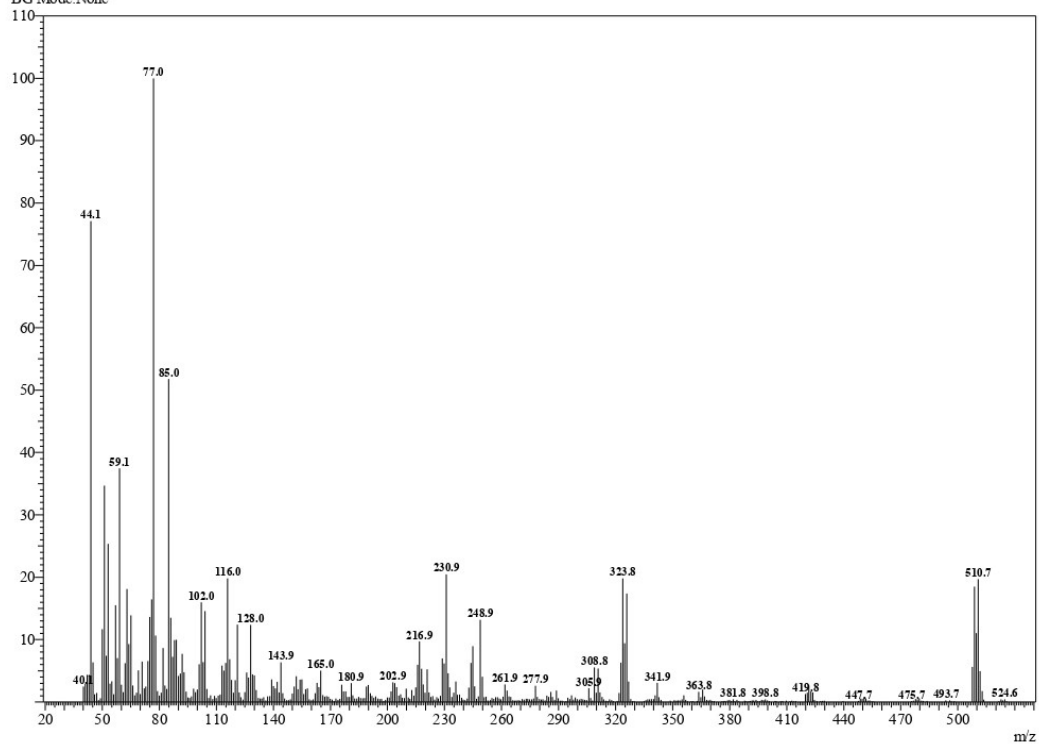
Line#: 1 R. Time: 4.2 (Scan#: 838)
MassPeaks: 249 BasePeak: 44(406193)
RawMode: Single 4.2(838)
BG Mode: None



Mass spectrum of compound 4d

Spectrum

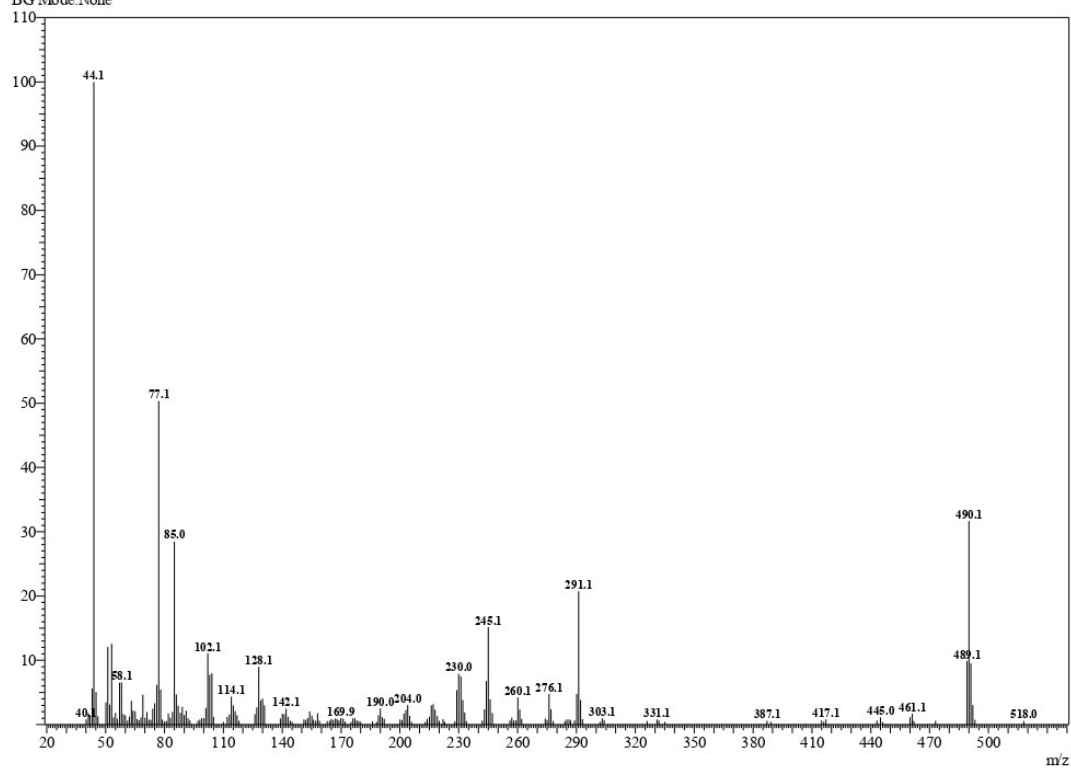
Line# 1 R. Time: 3.0 (Scan# 603)
MassPeaks: 398 BasePeak: 77(817218)
RawMode: Single 3.0(603)
BG Mode: None



Mass spectrum of compound 4e

Spectrum

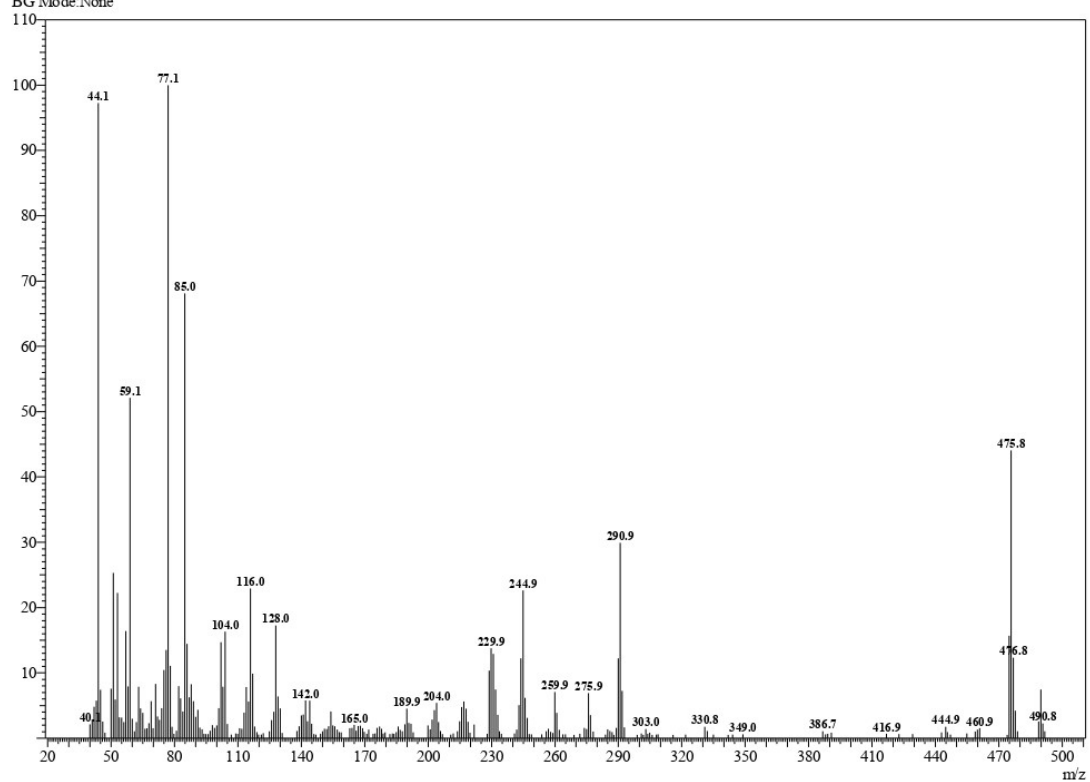
Line# 1 R. Time: 4.6(Scan# 913)
MassPeaks: 188 BasePeak: 44(508177)
RawMode: Single 4.6(913)
BG Mode: None



Mass spectrum of compound 4f

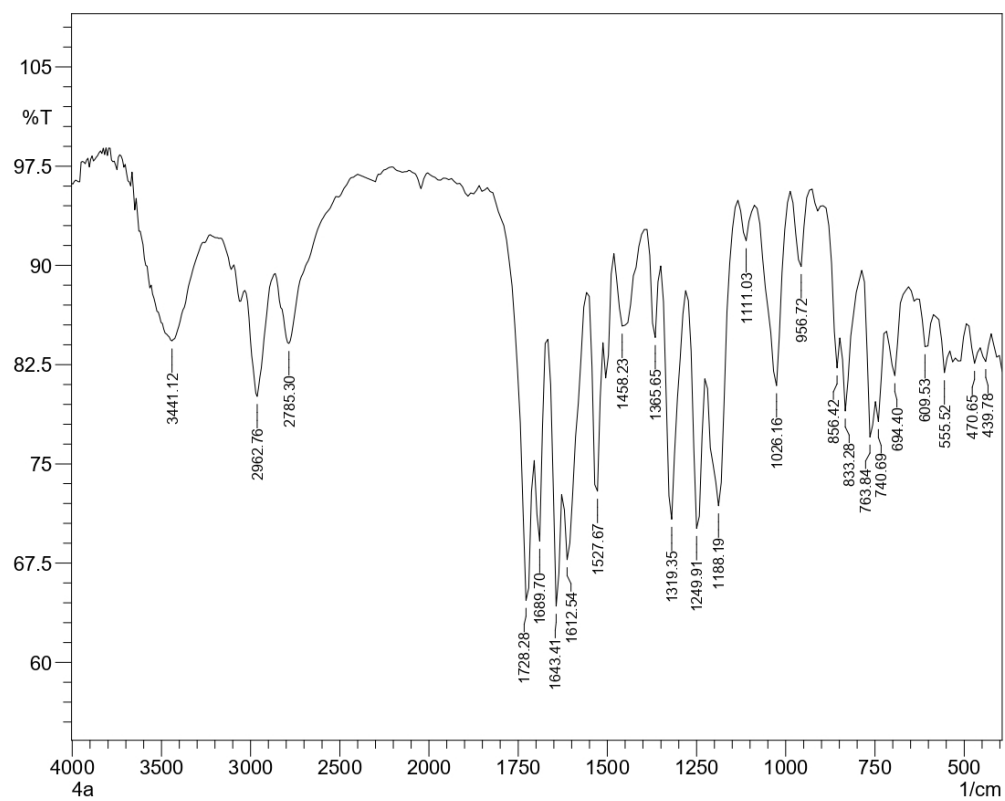
Spectrum

Line# 1 R. Time: 4.1 (Scan#: 812)
MassPeaks: 240 BasePeak: 77(221085)
RawMode: Single 4.1(812)
BG Mode: None



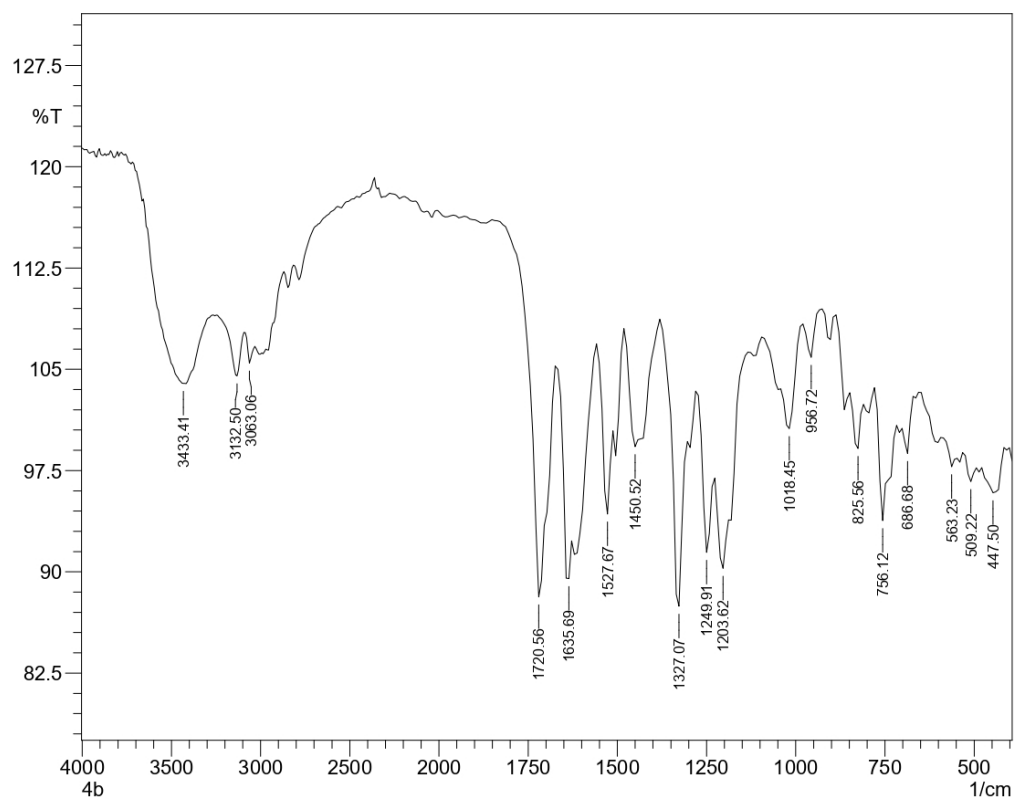
IR spectrum of compound 4a

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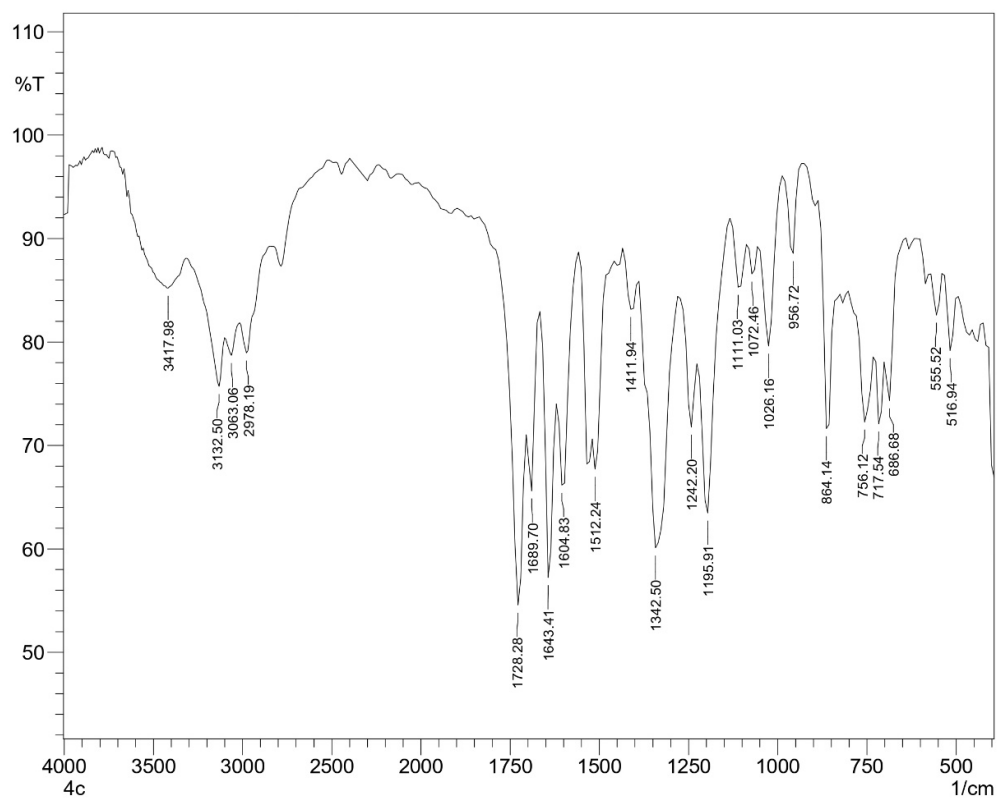
IR spectrum of compound 4b

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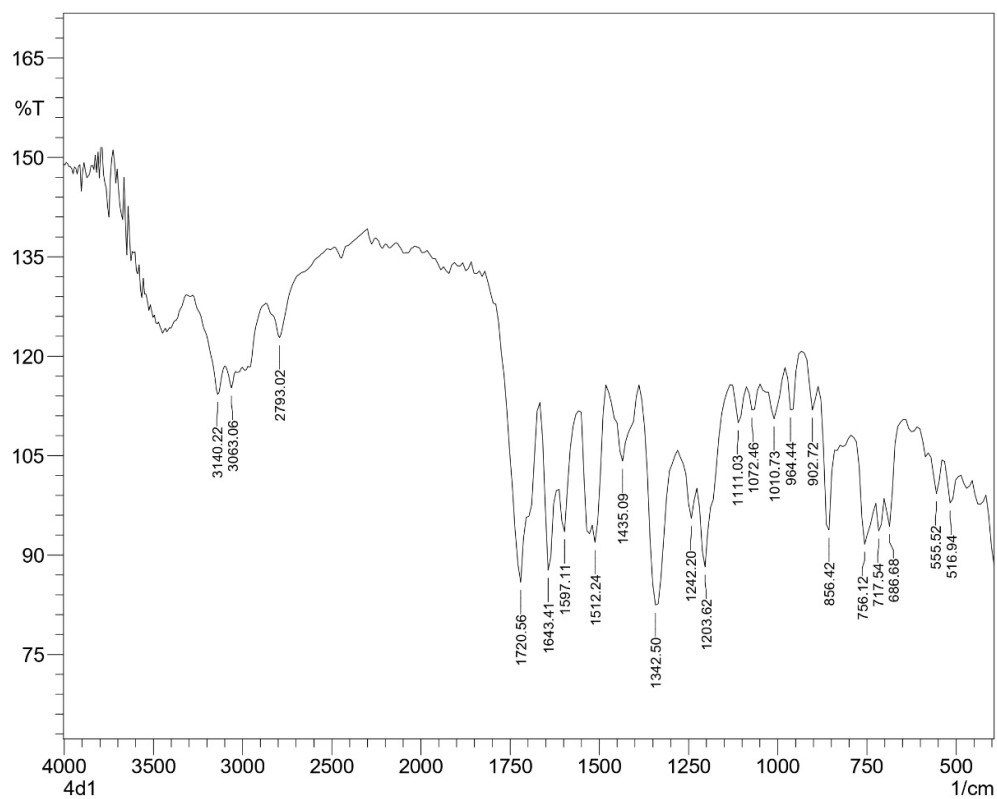
IR spectrum of compound 4c

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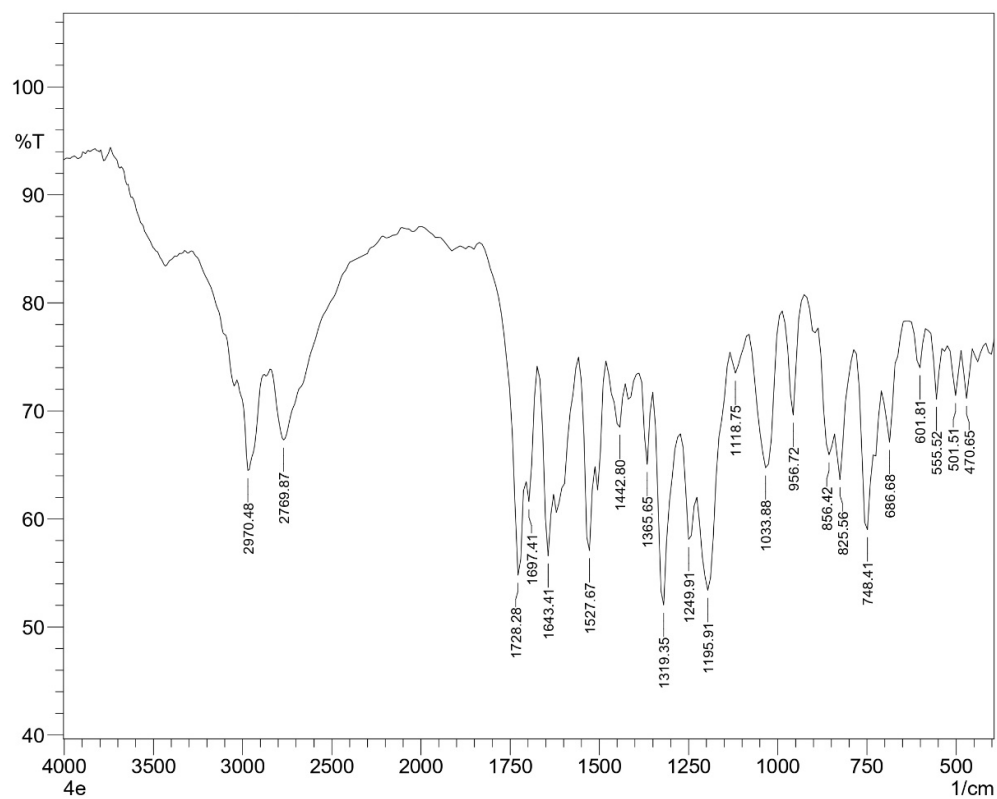
IR spectrum of compound 4d

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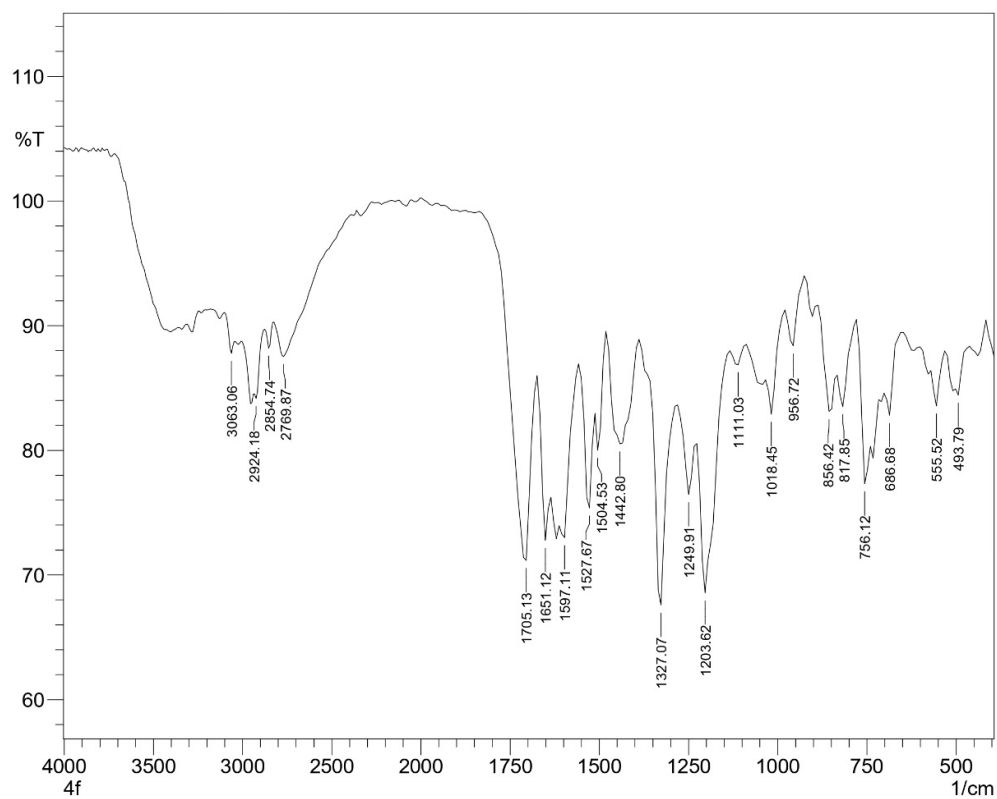
IR spectrum of compound 4e

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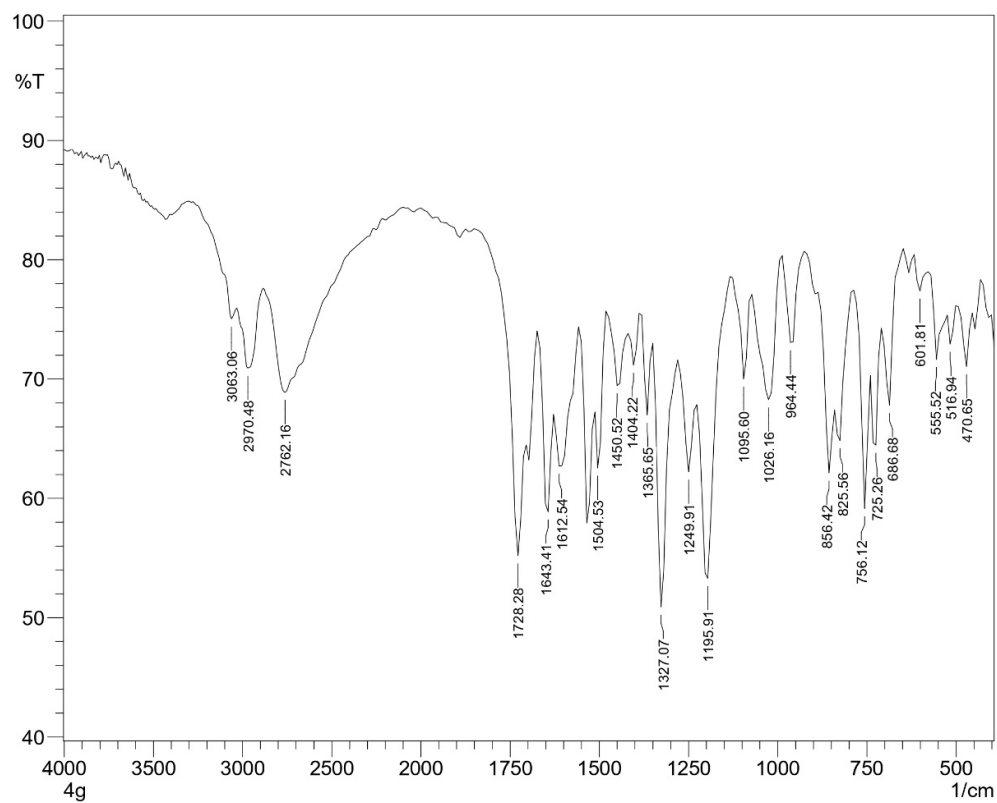
IR spectrum of compound 4f

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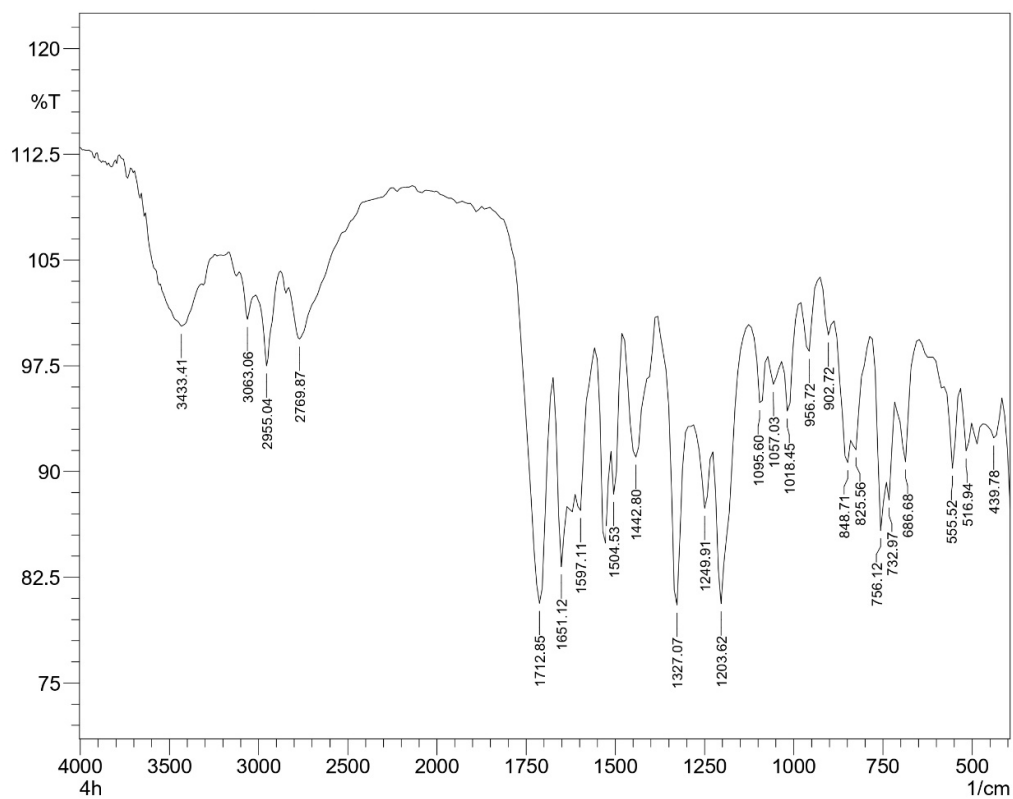
IR spectrum of compound 4g

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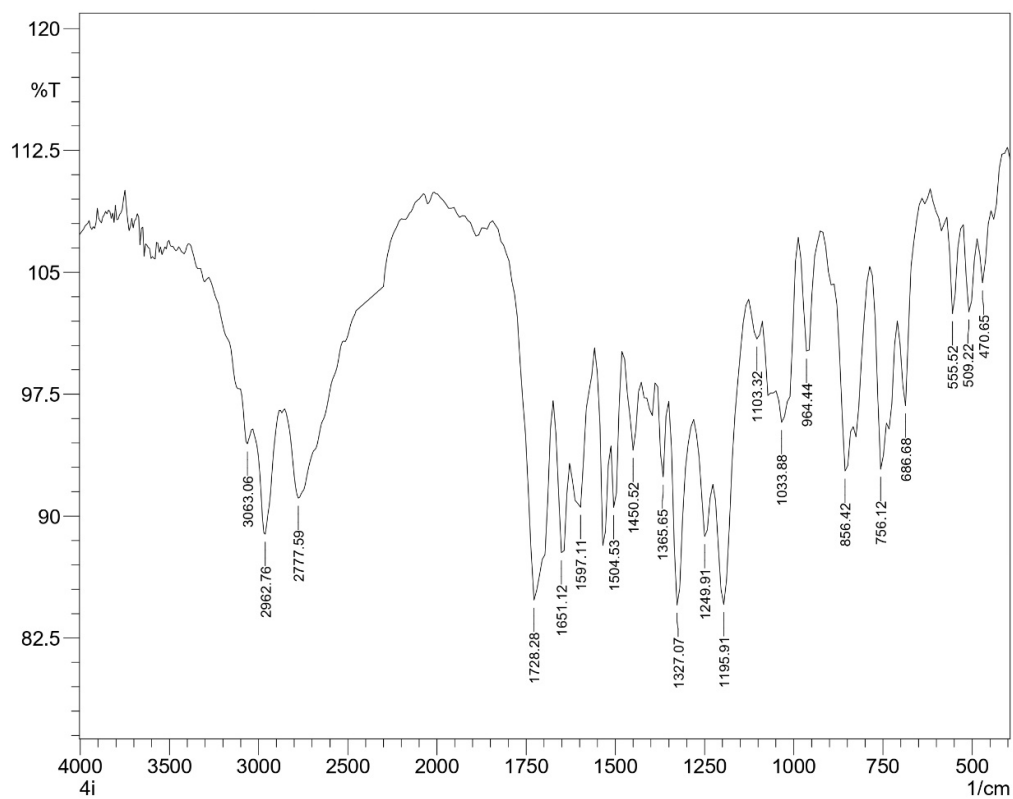
IR spectrum of compound 4h

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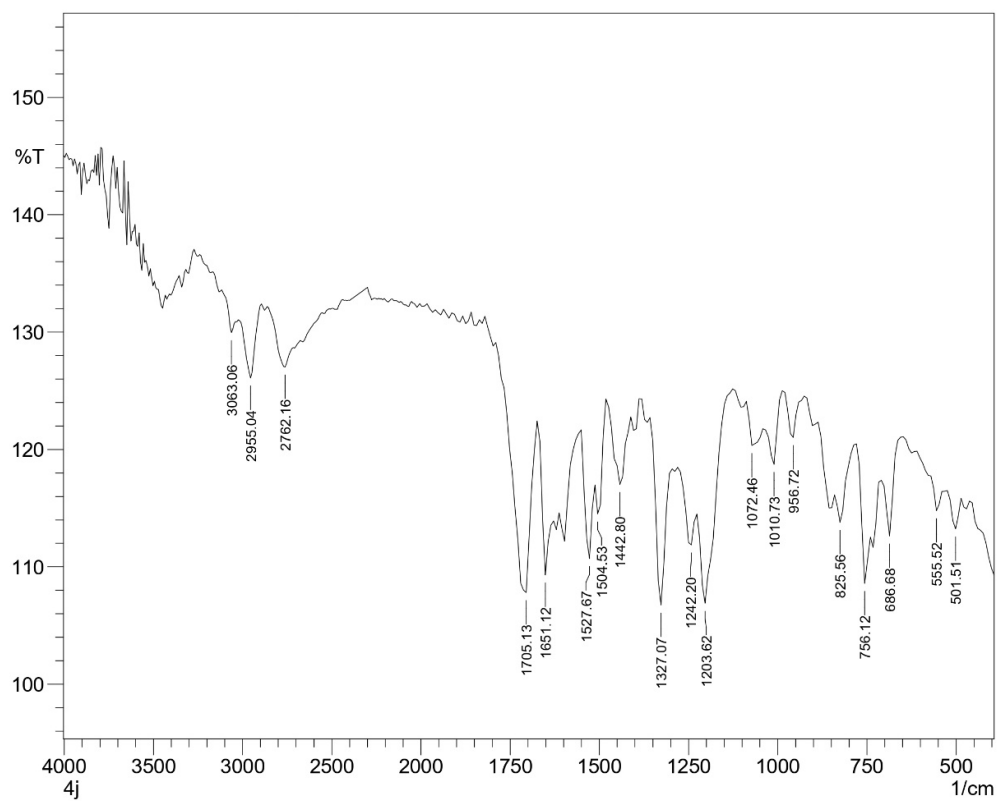
IR spectrum of compound 4i

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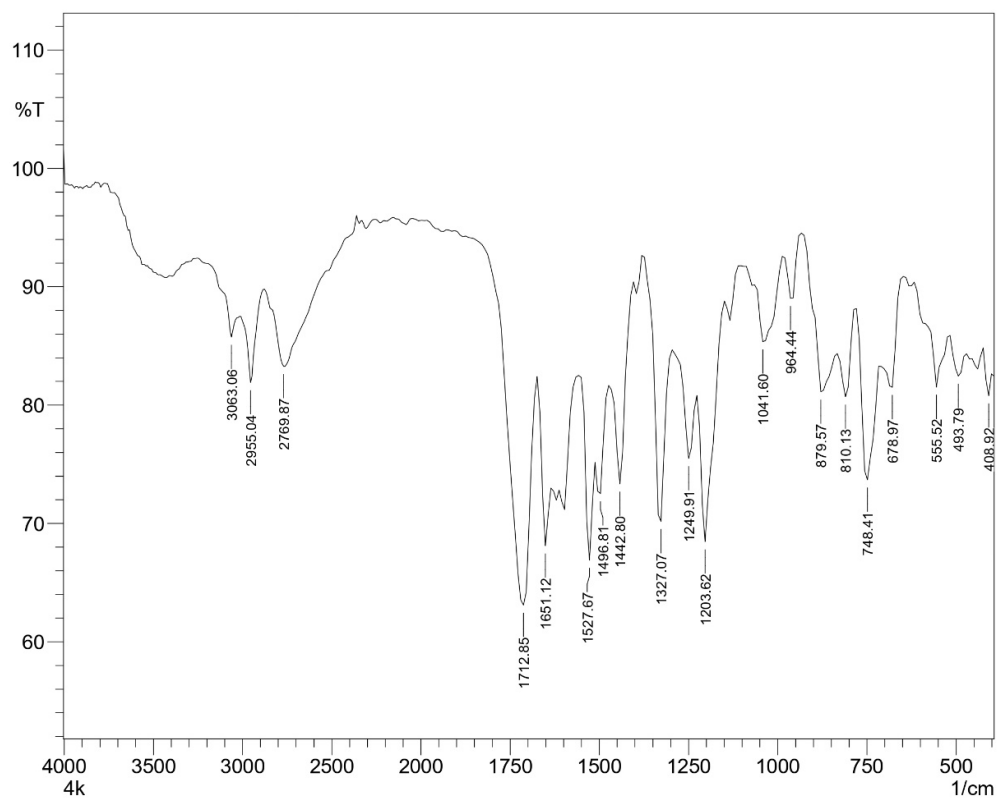
IR spectrum of compound 4j

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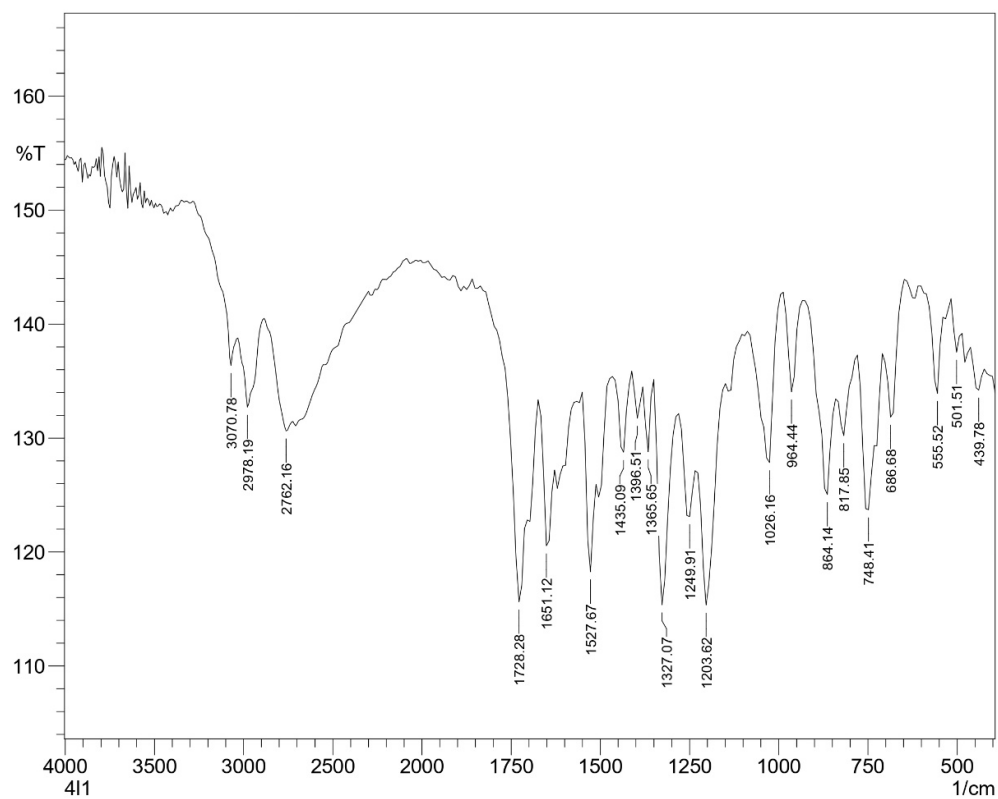
IR spectrum of compound 4k

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IR spectrum of compound 4l

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IR spectrum of compound 4m

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