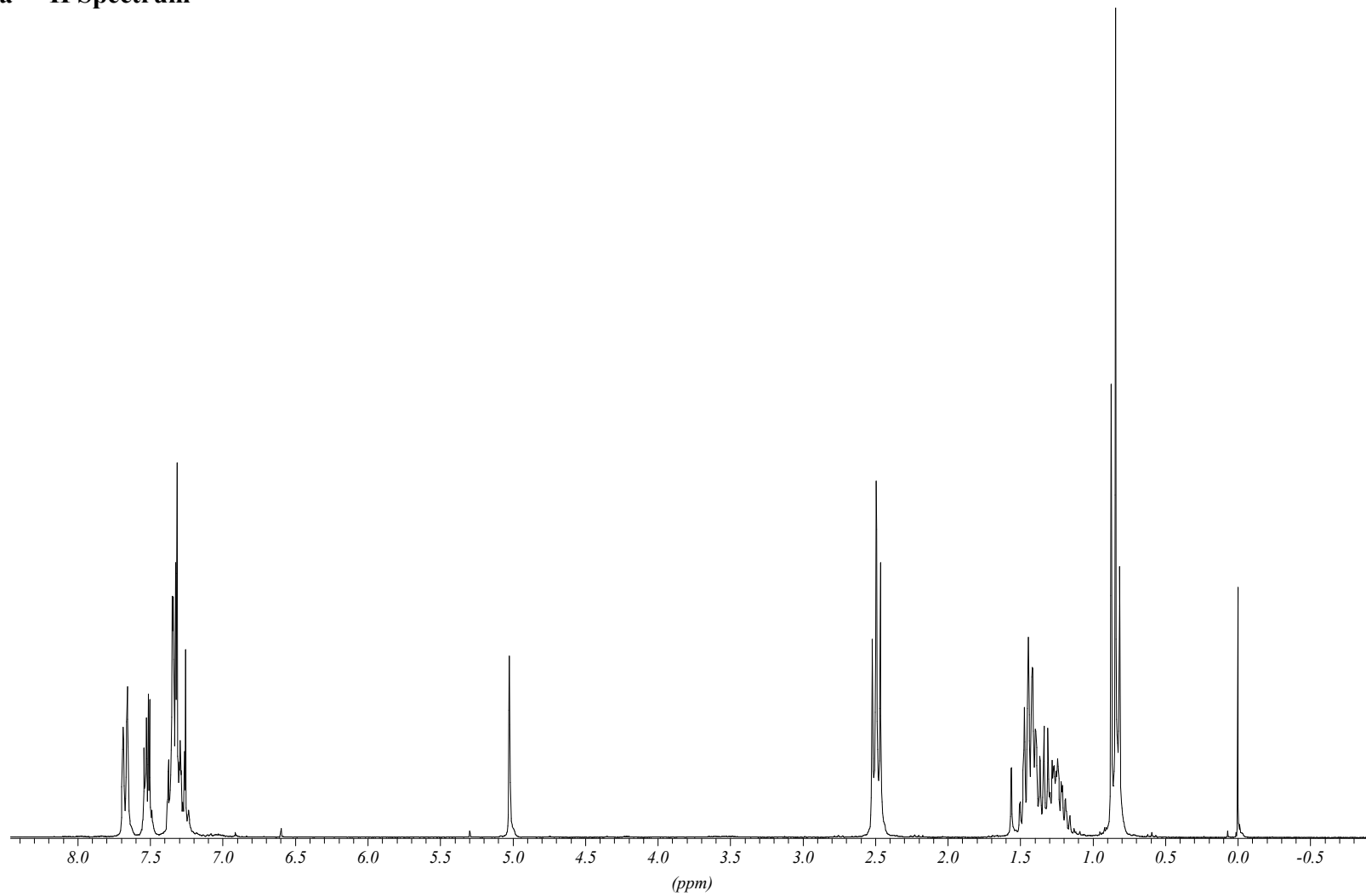
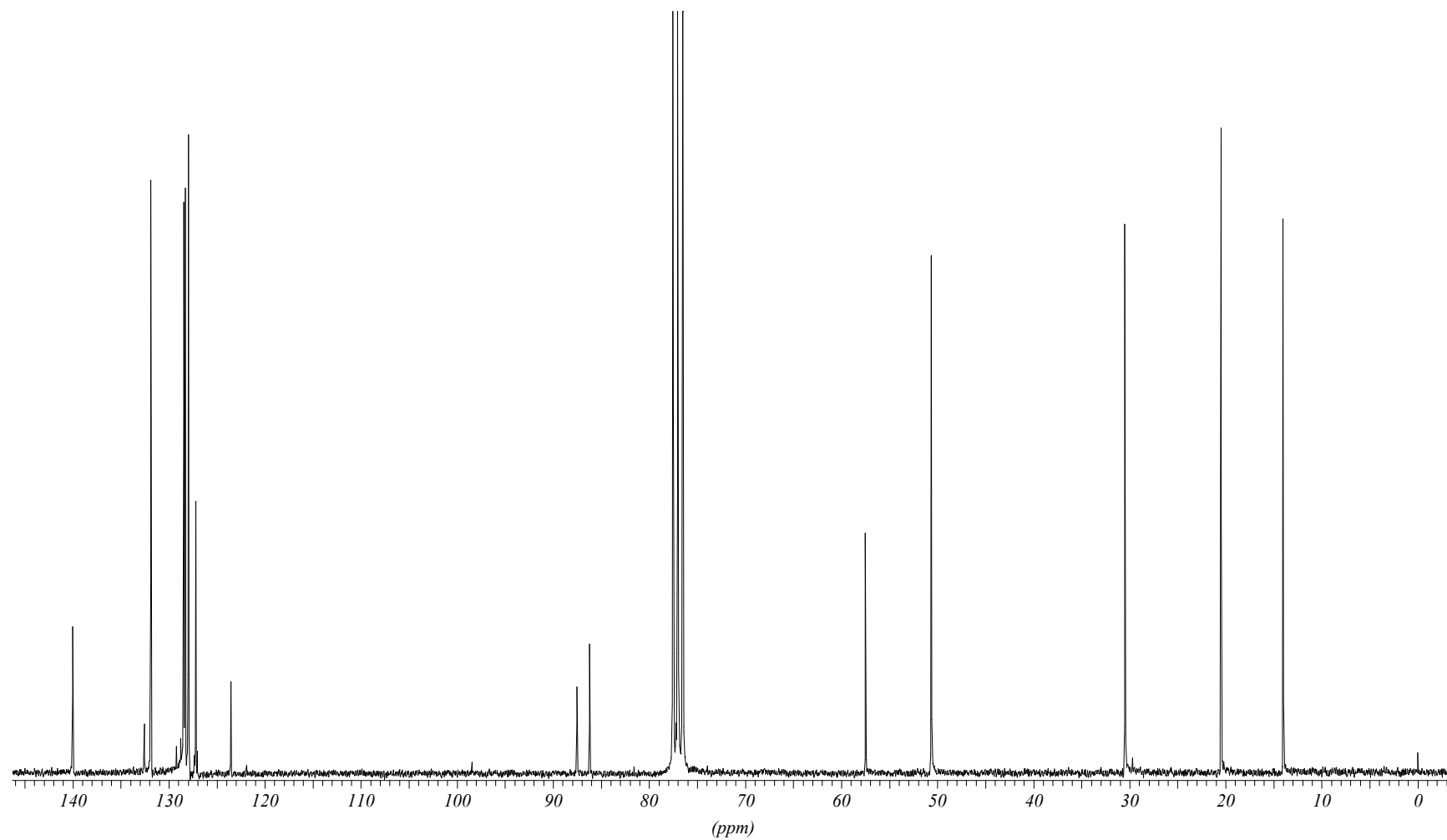


Supporting Information

Product 4a – ^1H Spectrum

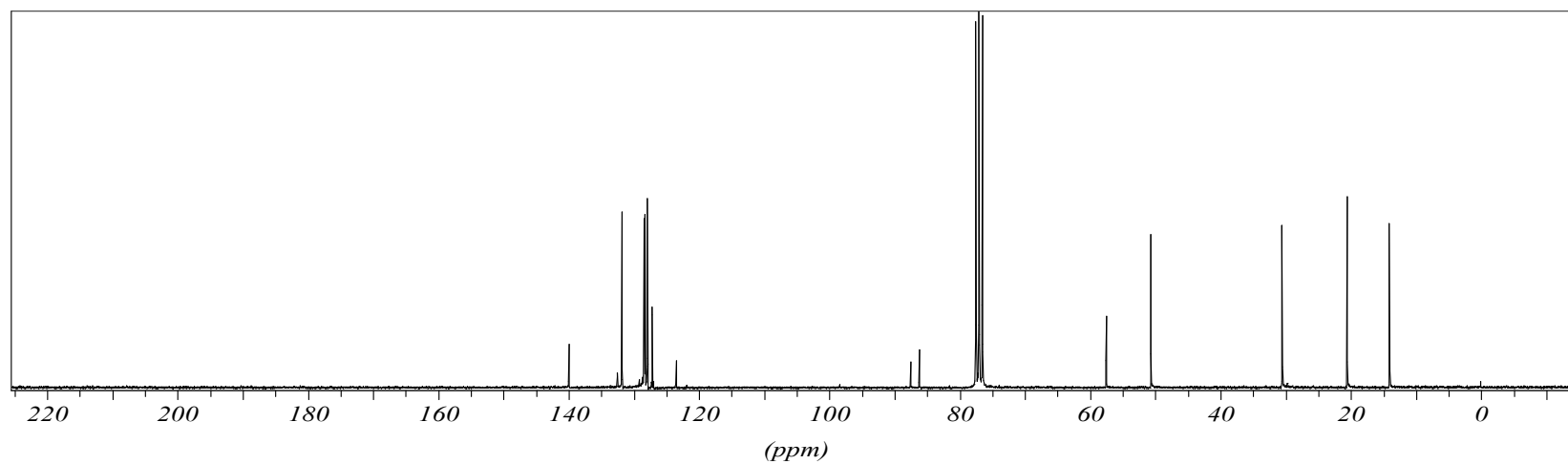
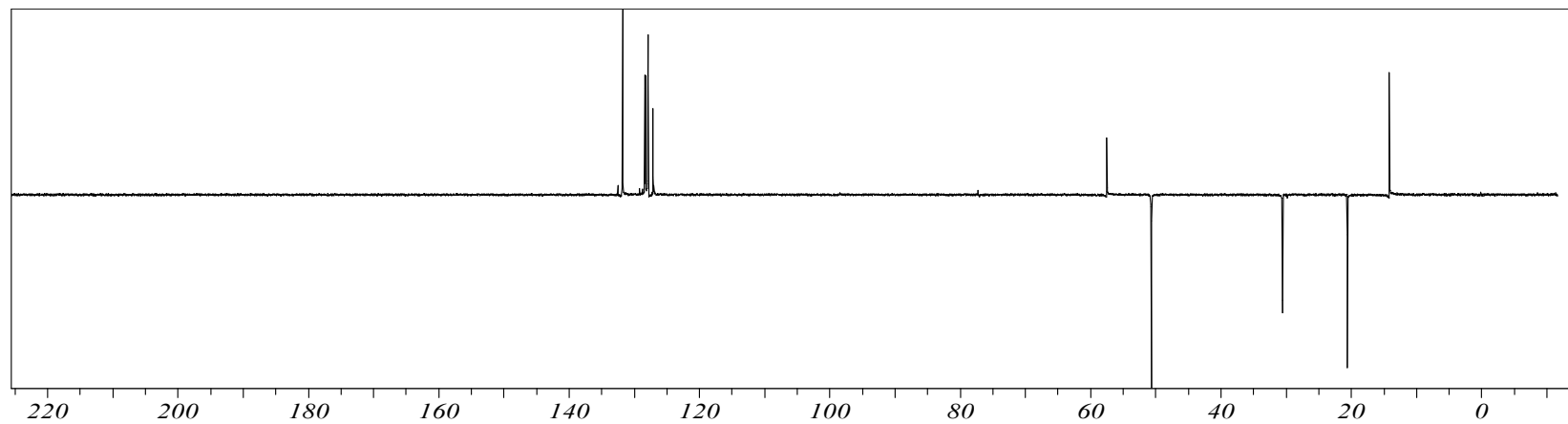


Product 4a – ^{13}C Spectrum

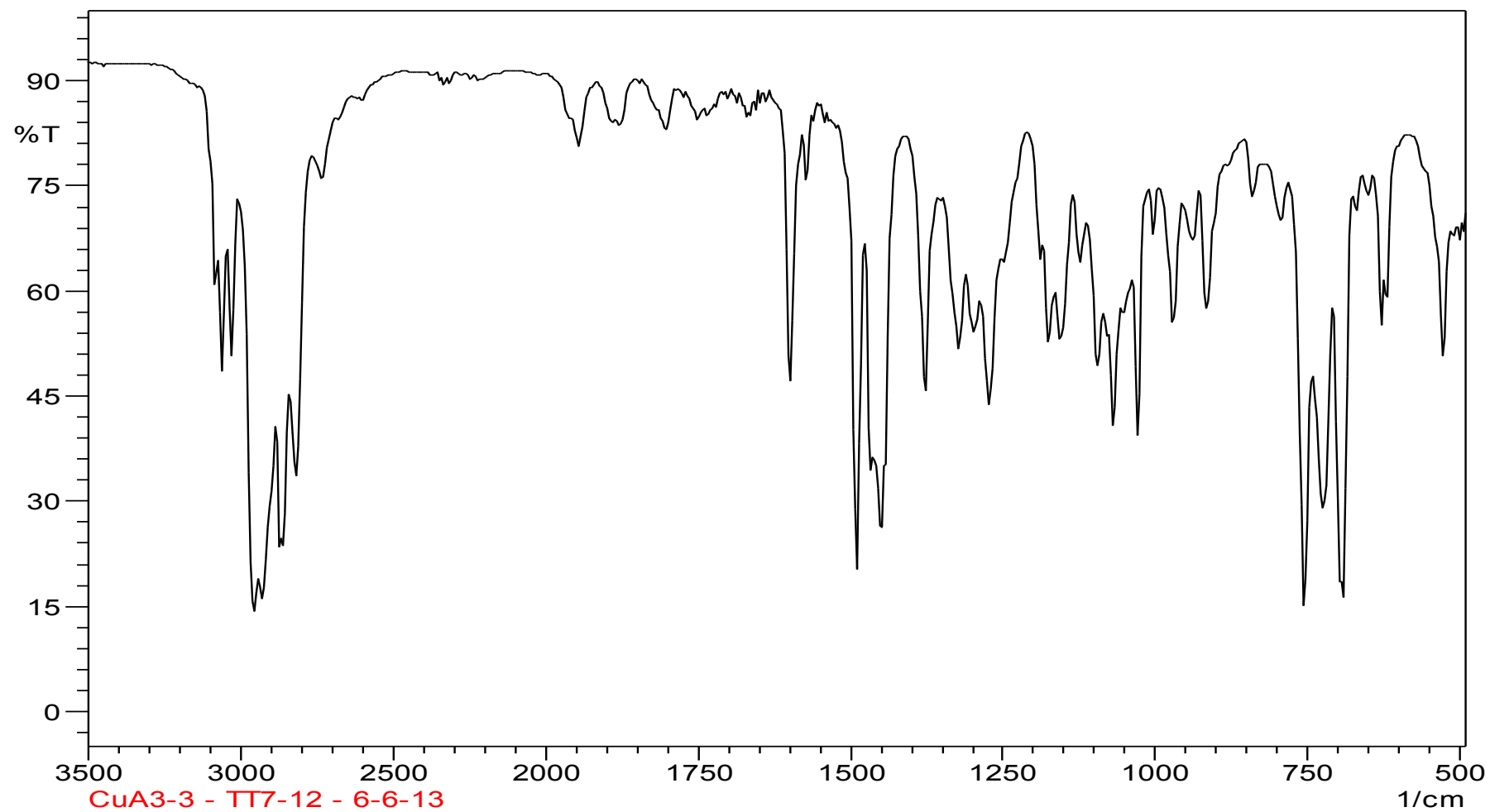


Product 4a – DEPT Spectrum

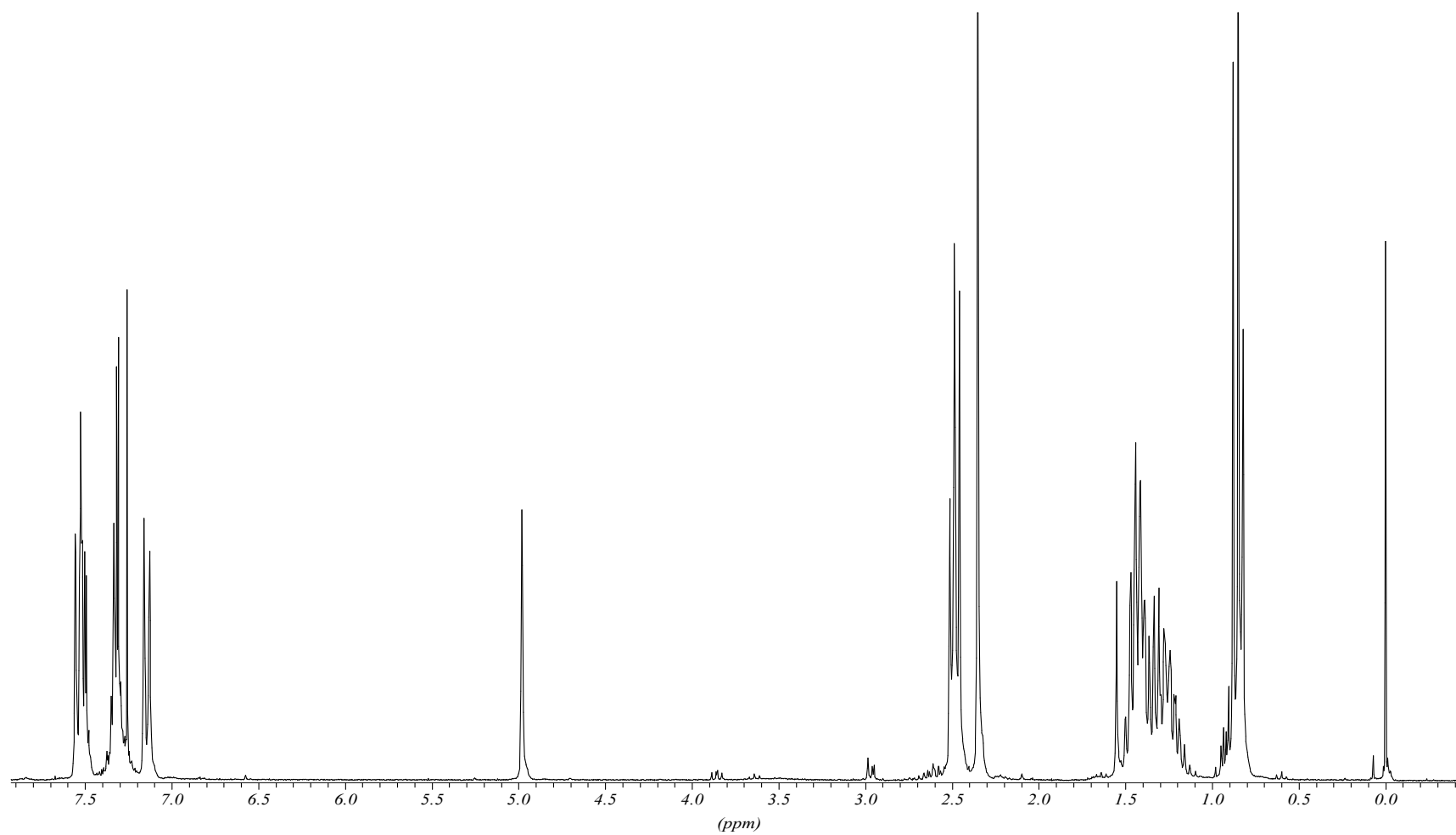
Separate Plot



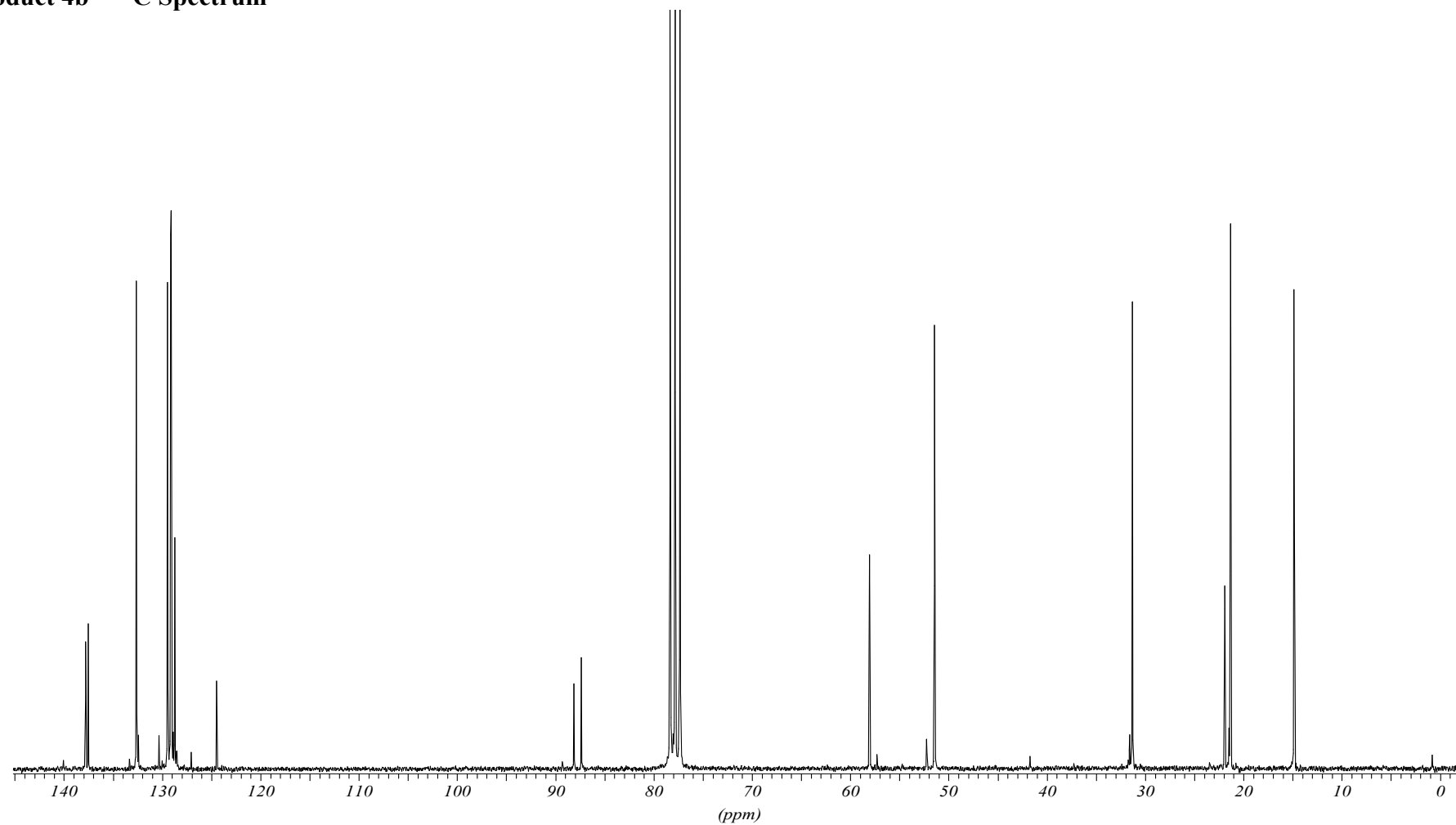
Product 4a – IR Spectrum



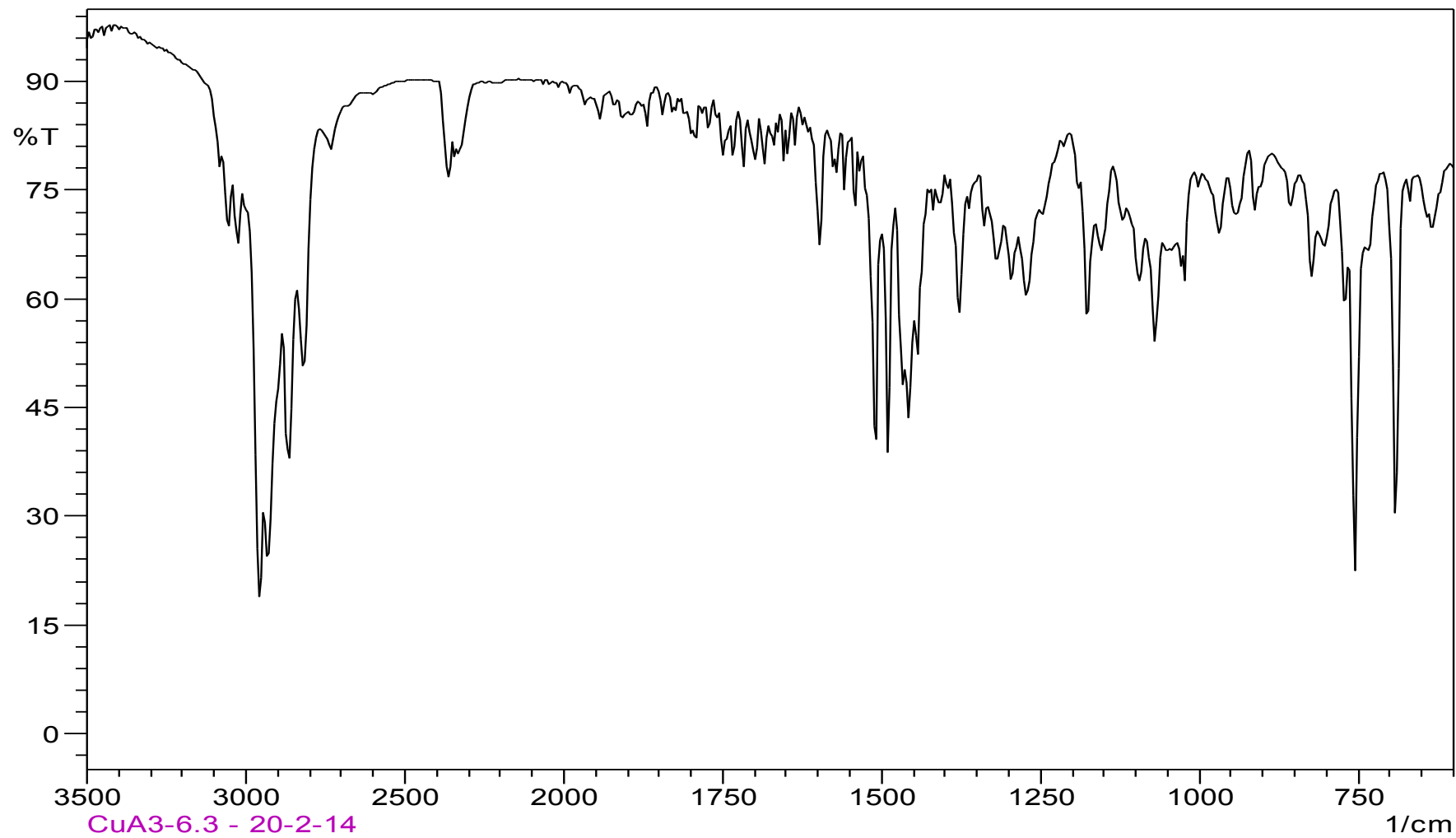
Product 4b – ¹H Spectrum



Product 4b – ¹³C Spectrum

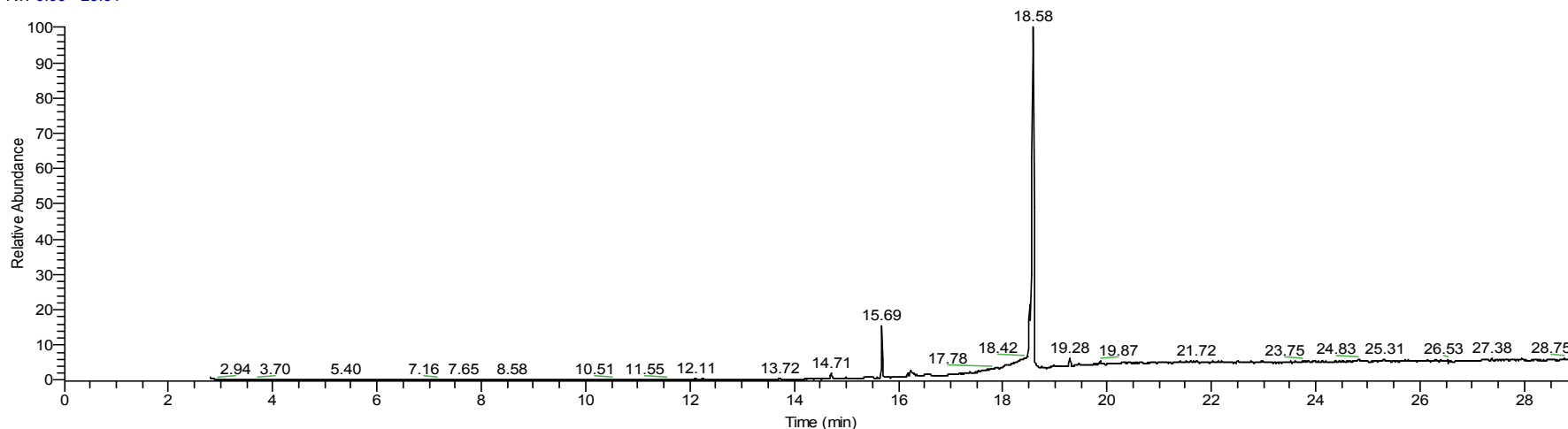


Product 4b – IR Spectrum



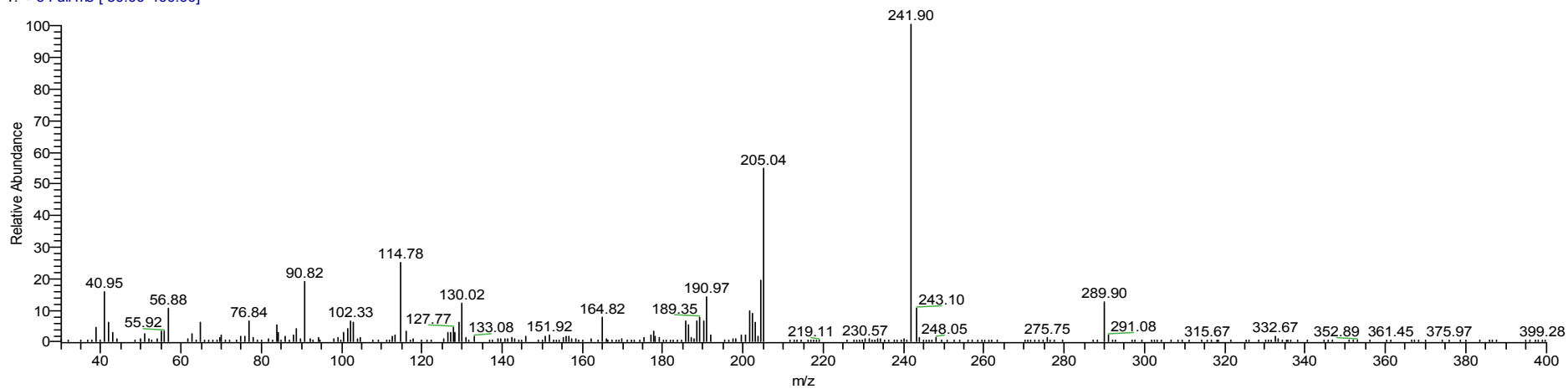
Product 4b – GC-MS Spectrum

RT: 0.00 - 29.01

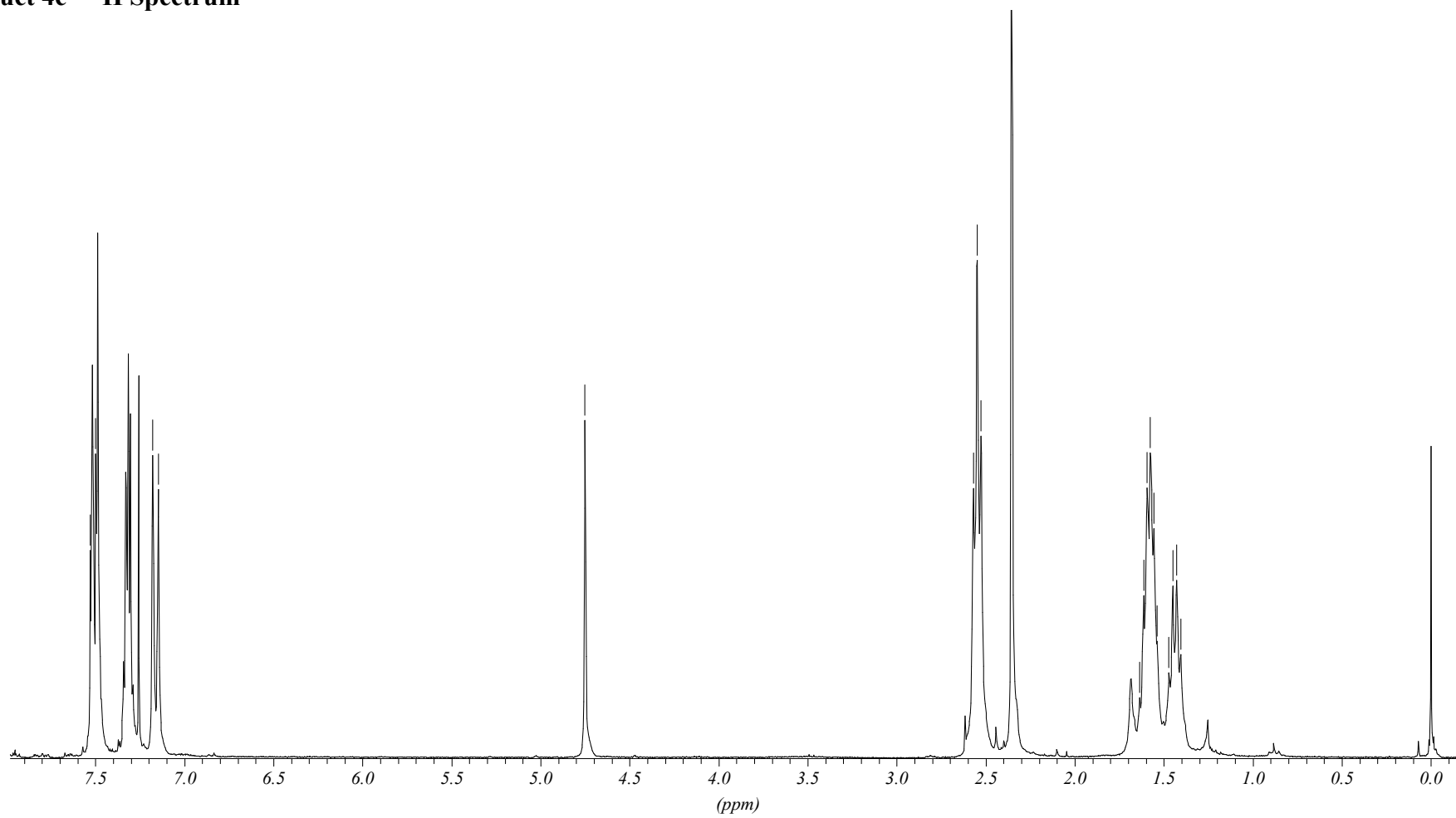


NL:
2.93E7
TIC F: MS
CuA3-62r1

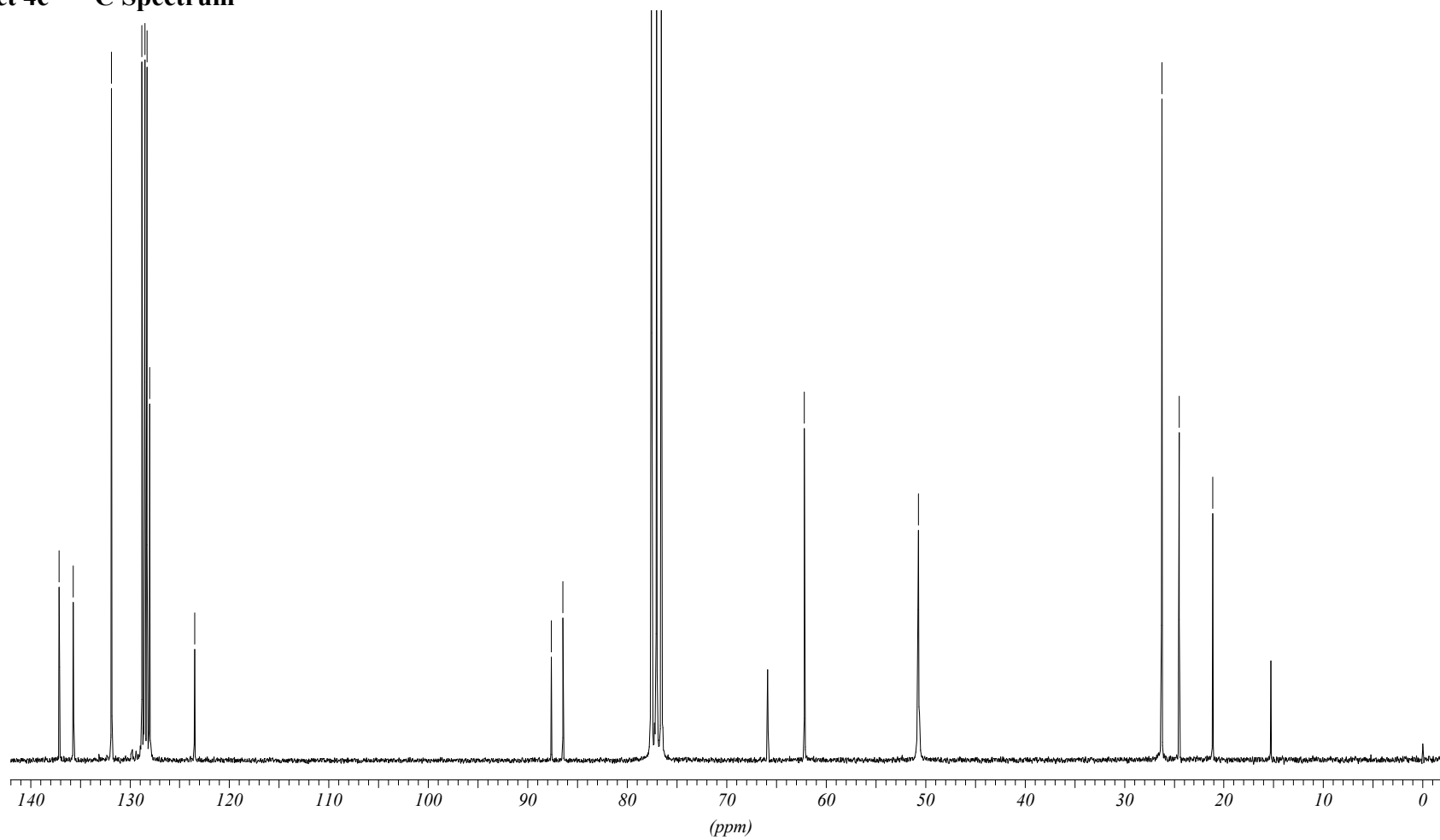
CuA3-62r1 #1240 RT: 18.53 AV: 1 SB: 2 19.59, 27.23 NL: 7.37E5
T: + c Full ms [30.00-400.00]



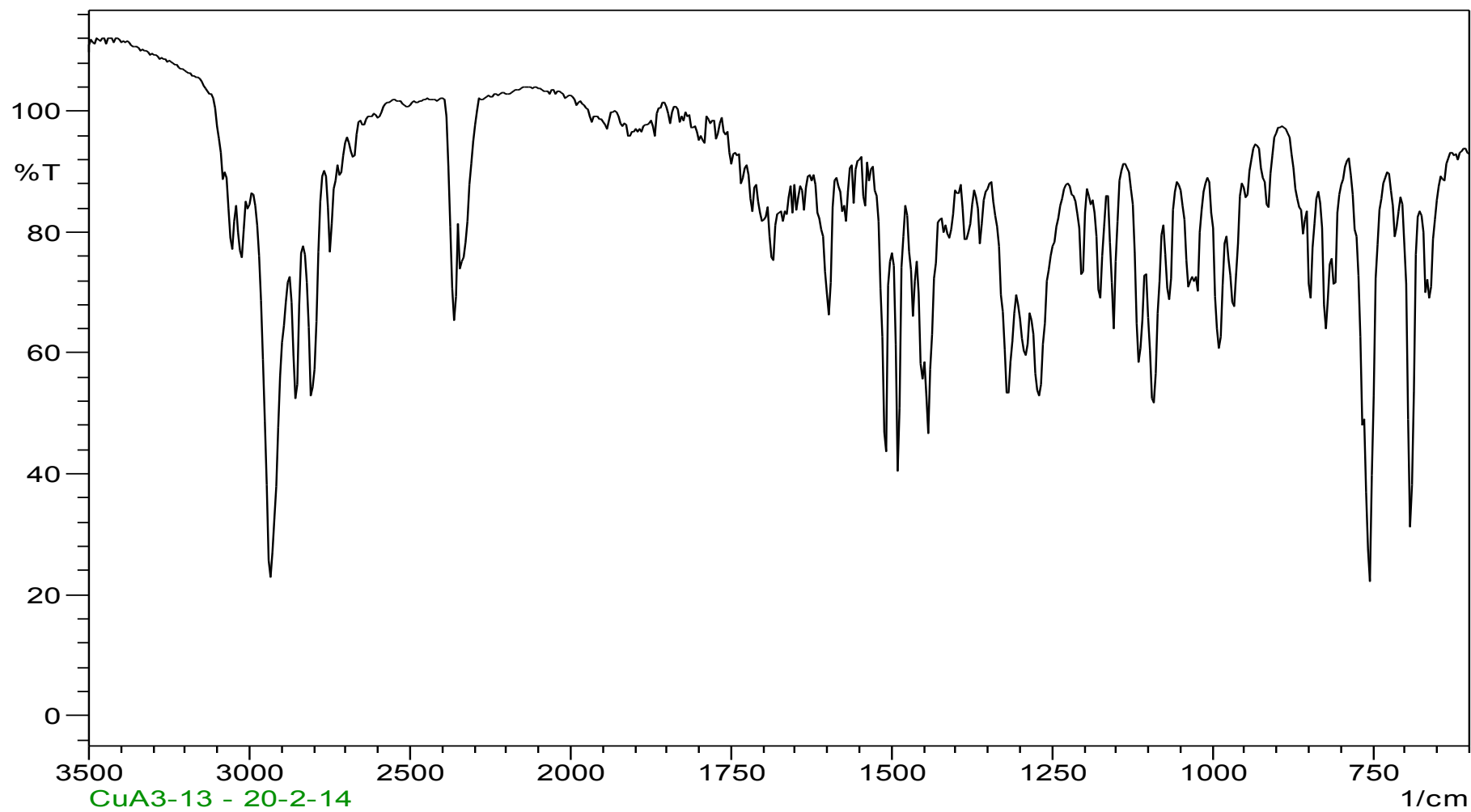
Product 4c – ¹H Spectrum



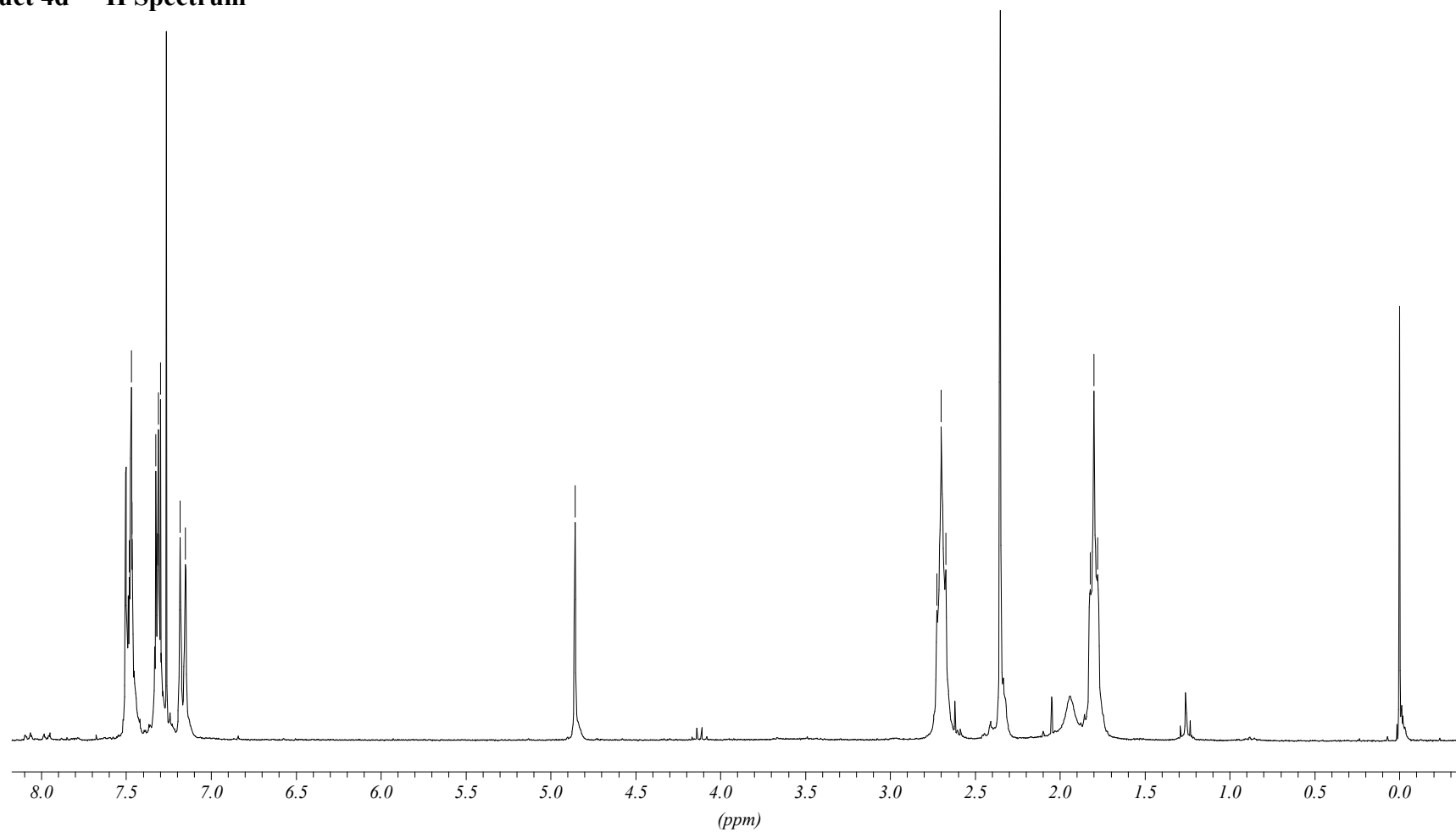
Product 4c – ¹³C Spectrum



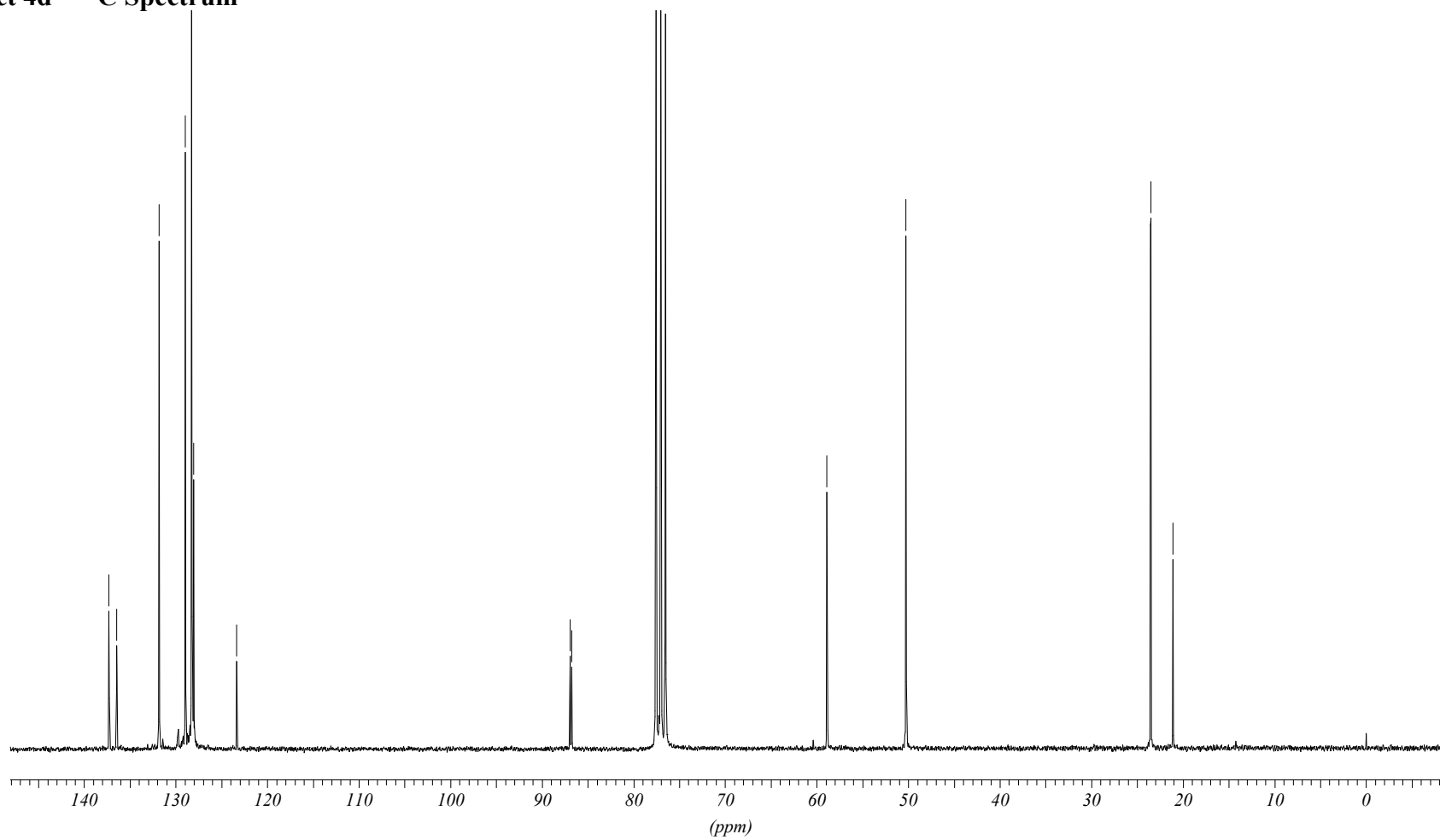
Product 4c – IR Spectrum



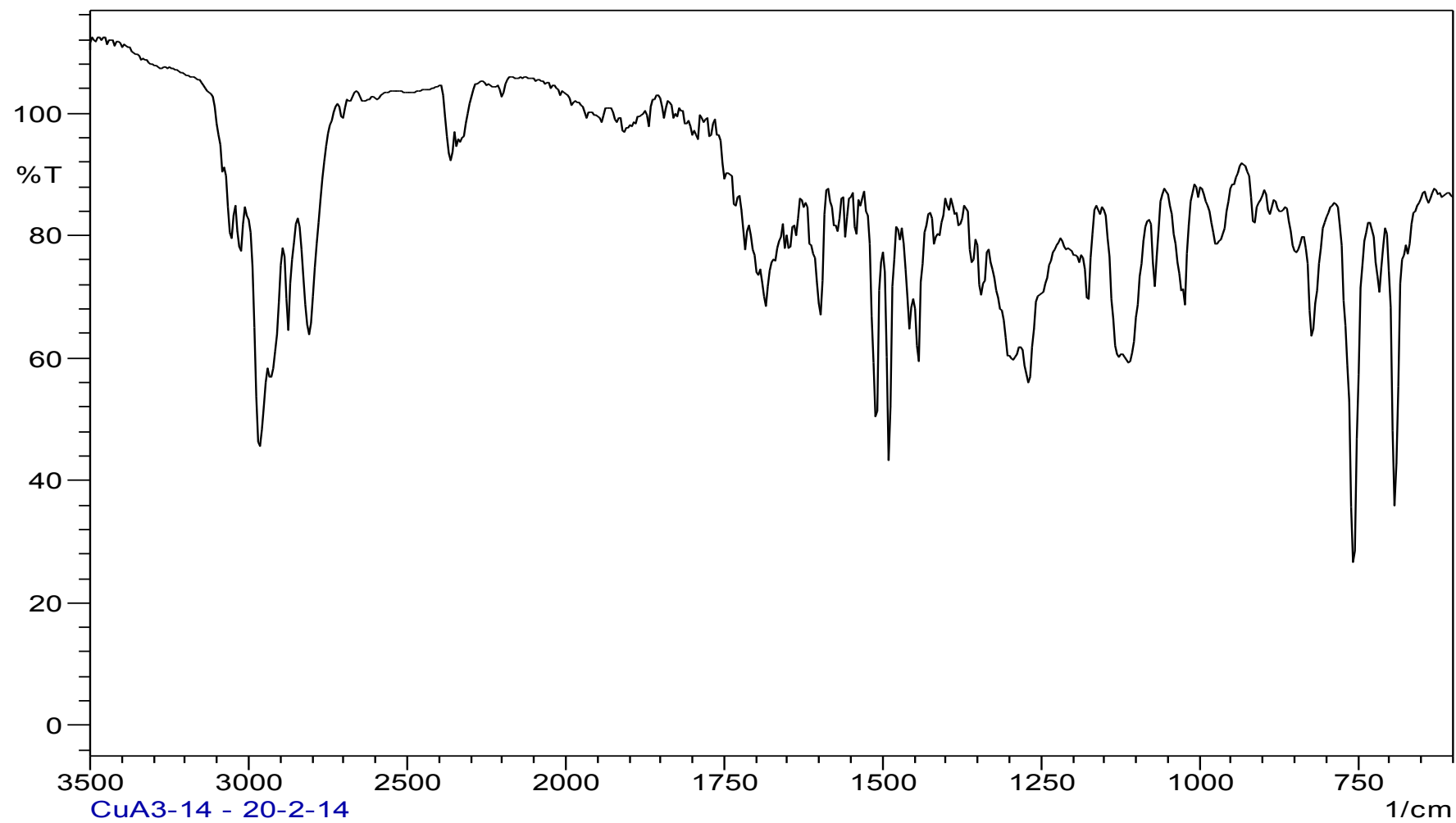
Product 4d – ¹H Spectrum



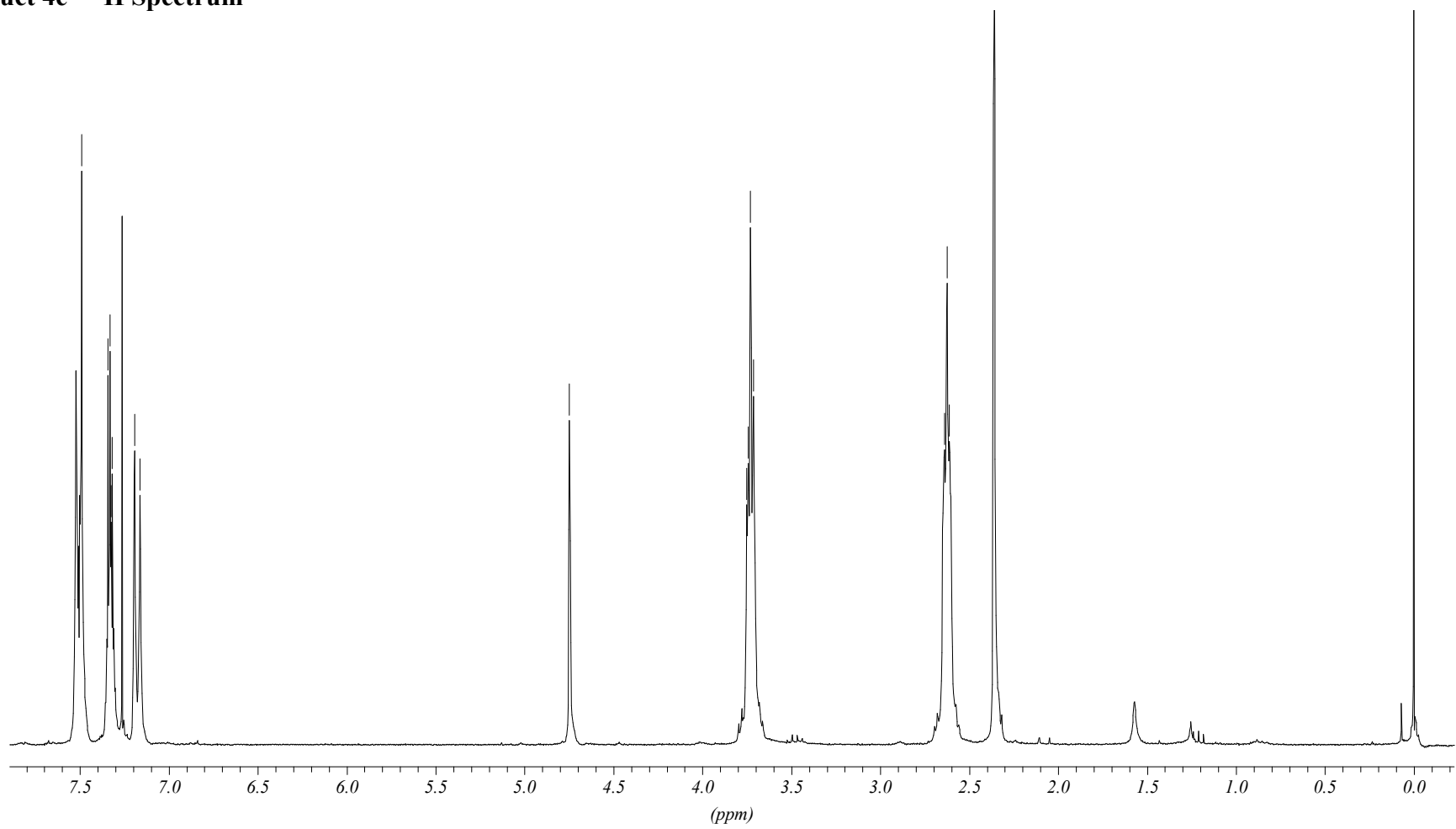
Product 4d – ¹³C Spectrum



Product 4d – IR Spectrum

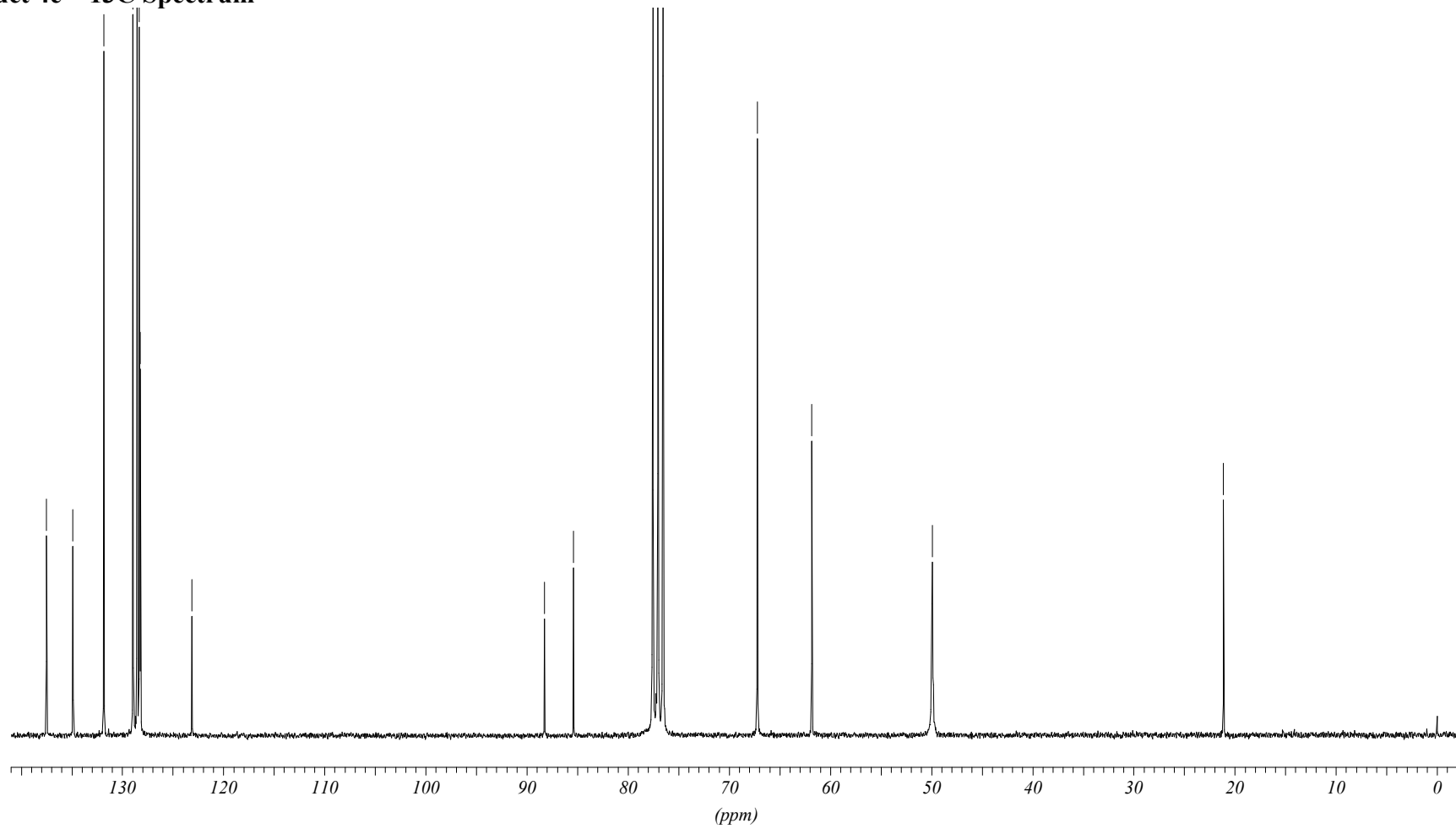


Product 4e – ¹H Spectrum

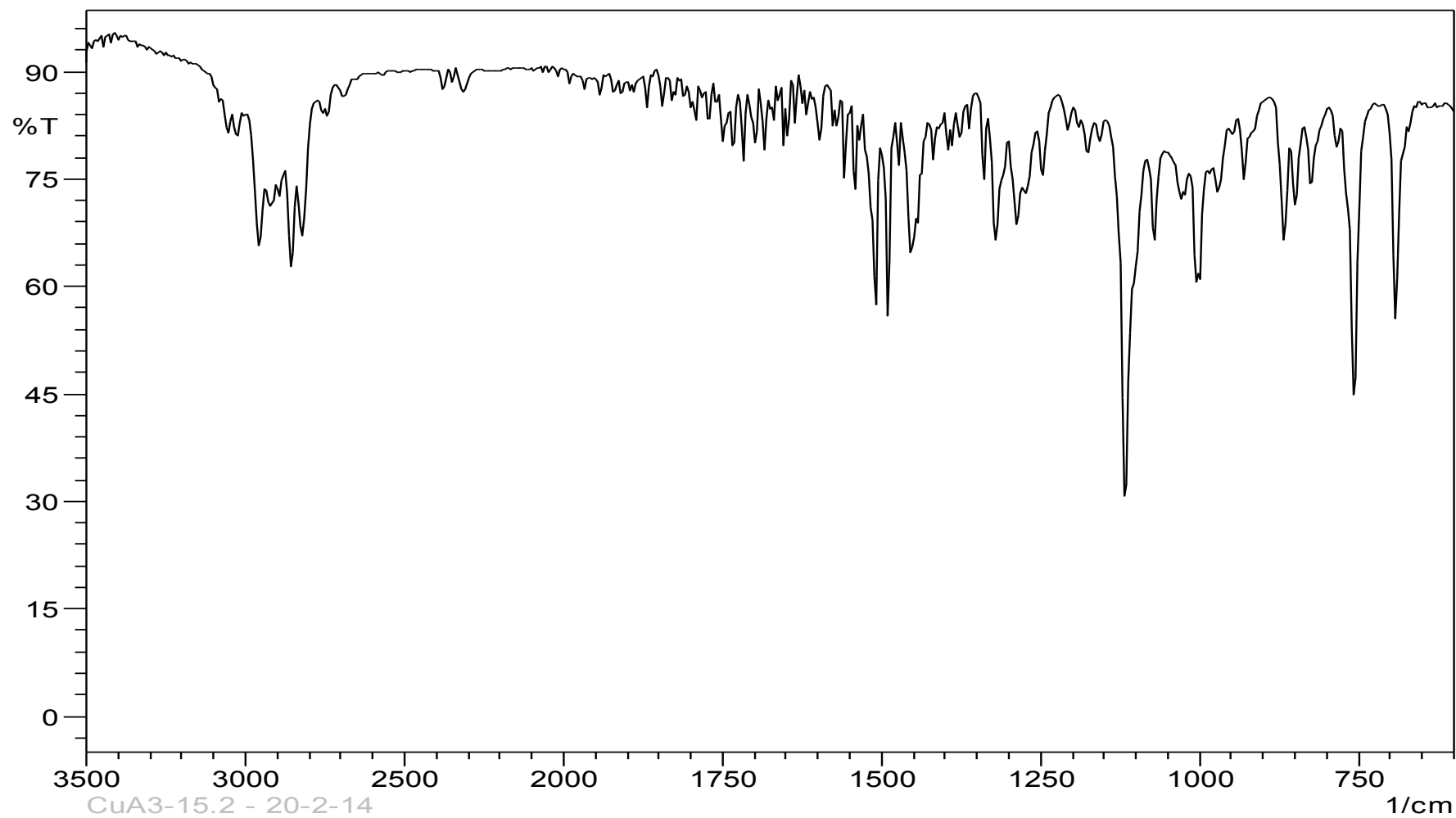


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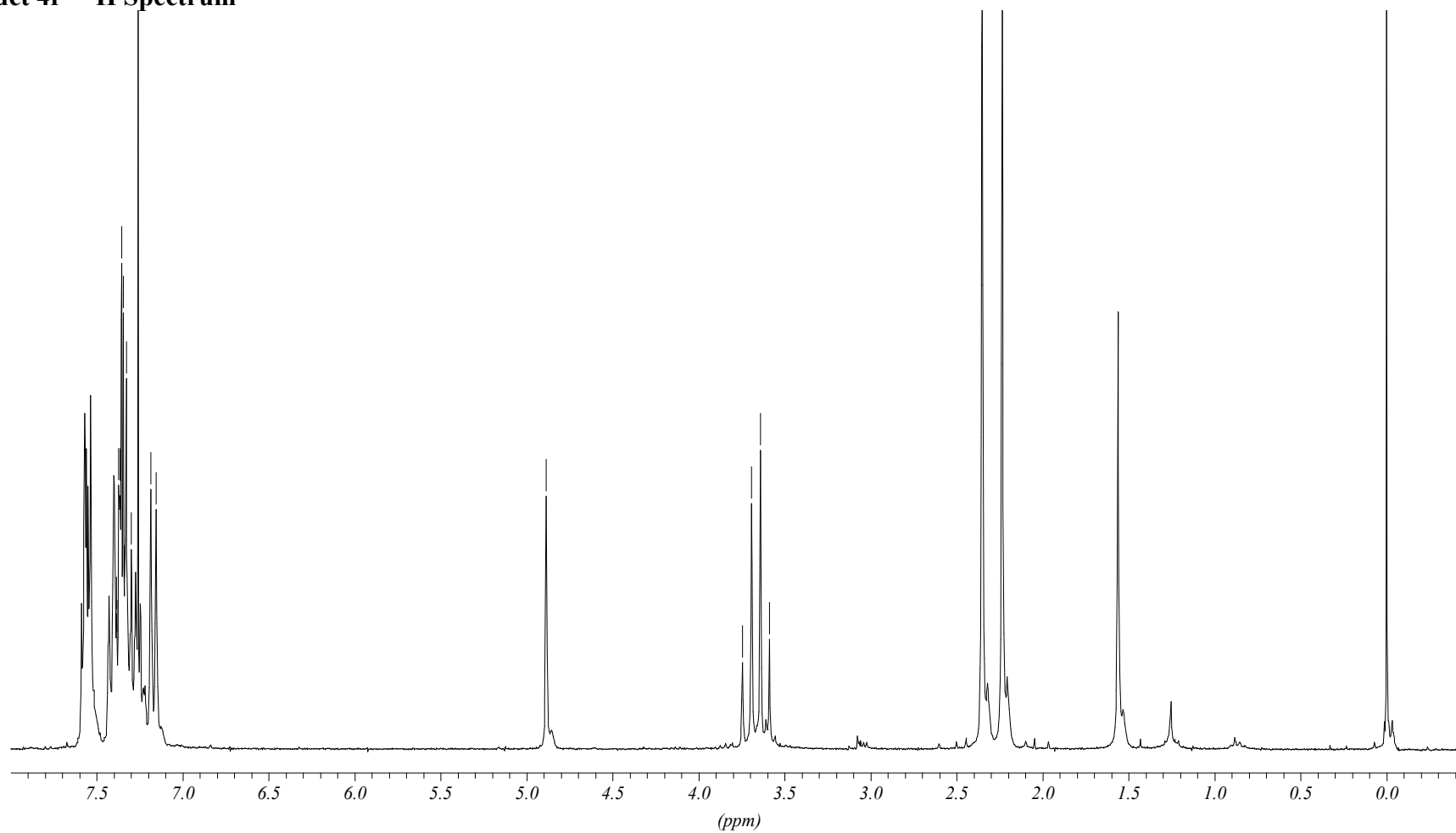
Product 4e – ¹³C Spectrum



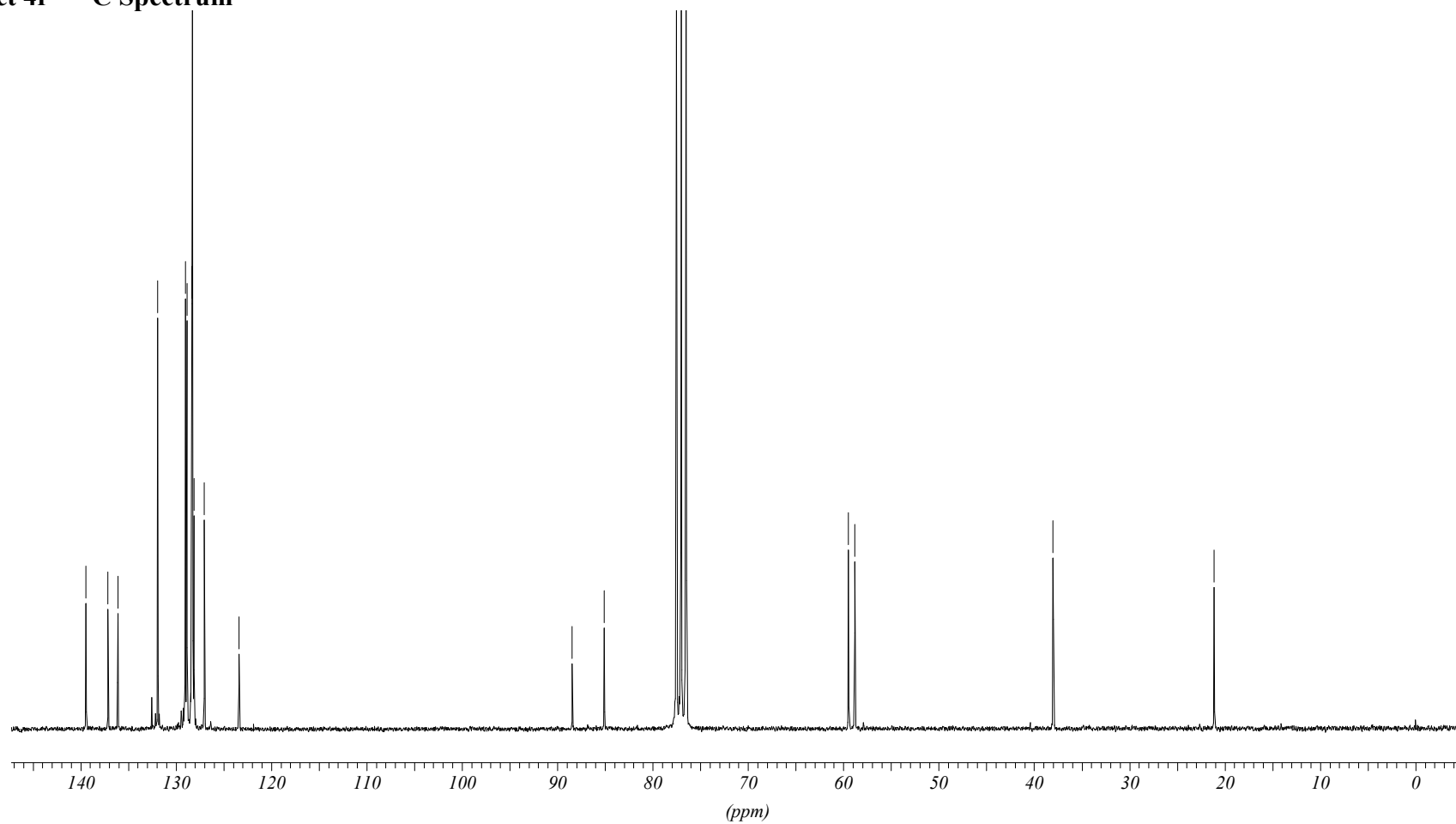
Product 4e – IR Spectrum



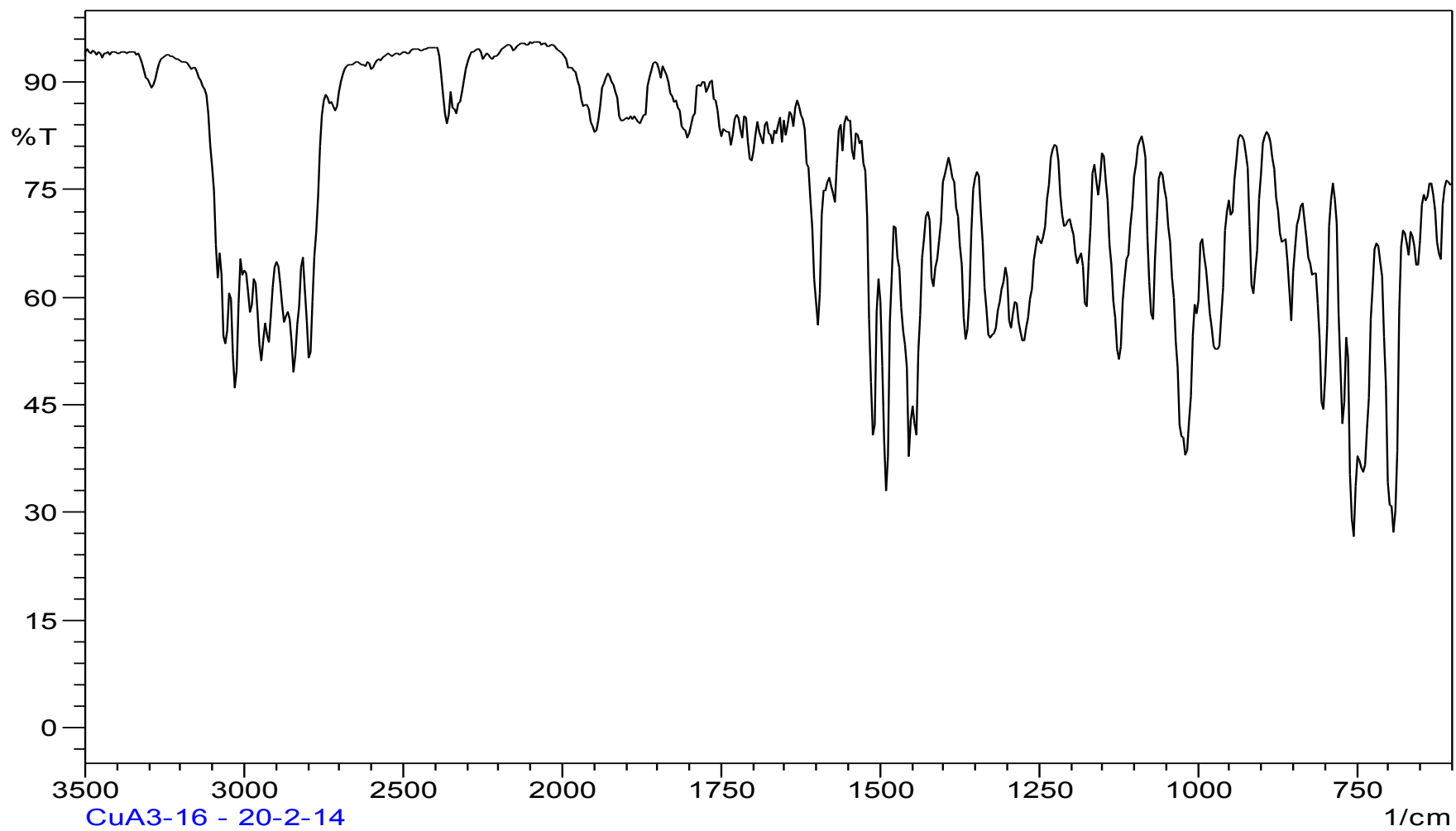
Product 4f – ¹H Spectrum



Product 4f – ¹³C Spectrum

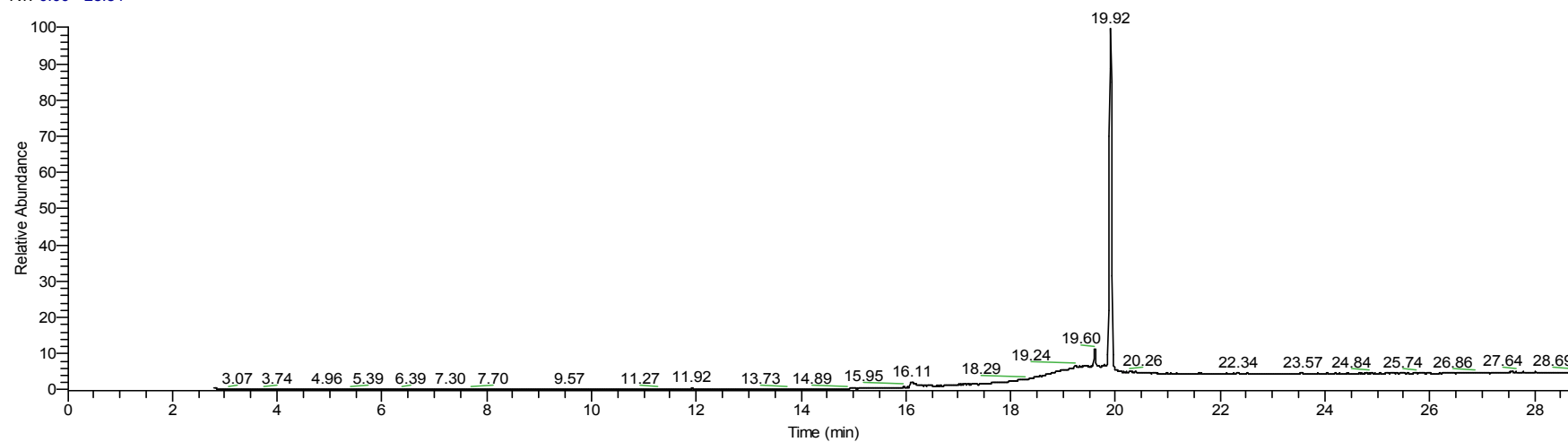


Product 4f – IR Spectrum



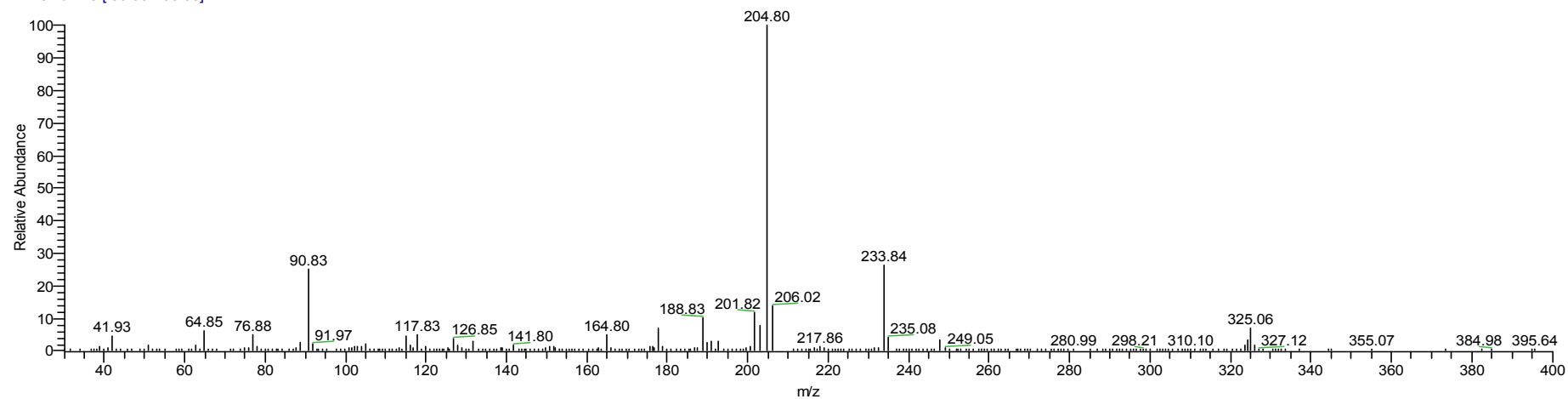
Product 4f – GC-MS Spectrum

RT: 0.00 - 28.84

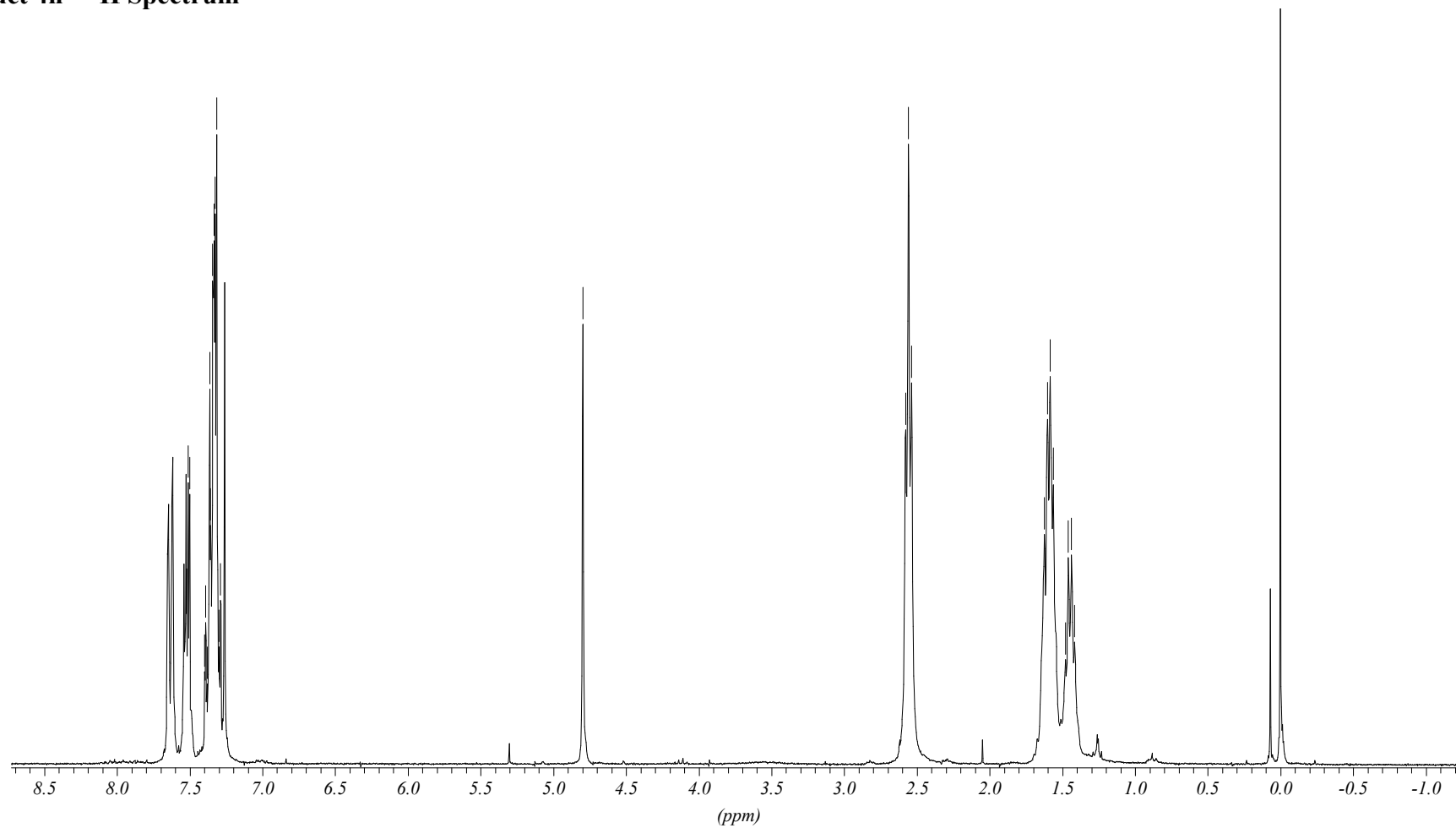


NL:
5.43E7
TIC F: MS
CuA3-16r1

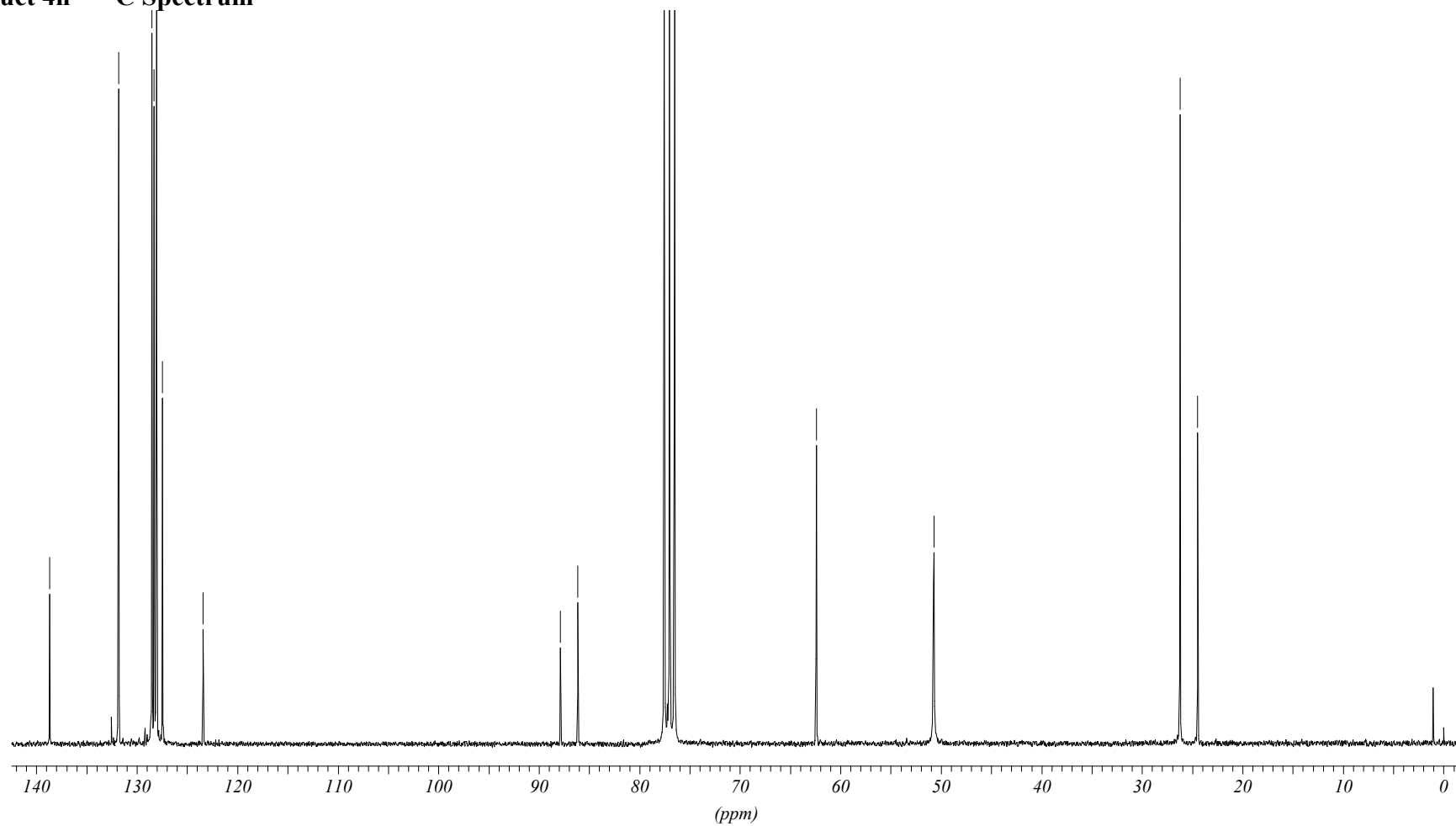
CuA3-16r1 #1349 RT: 19.92 AV: 1 SB: 2 20.12, 21.00 NL: 1.64E7
T: + c Full ms [30.00-400.00]



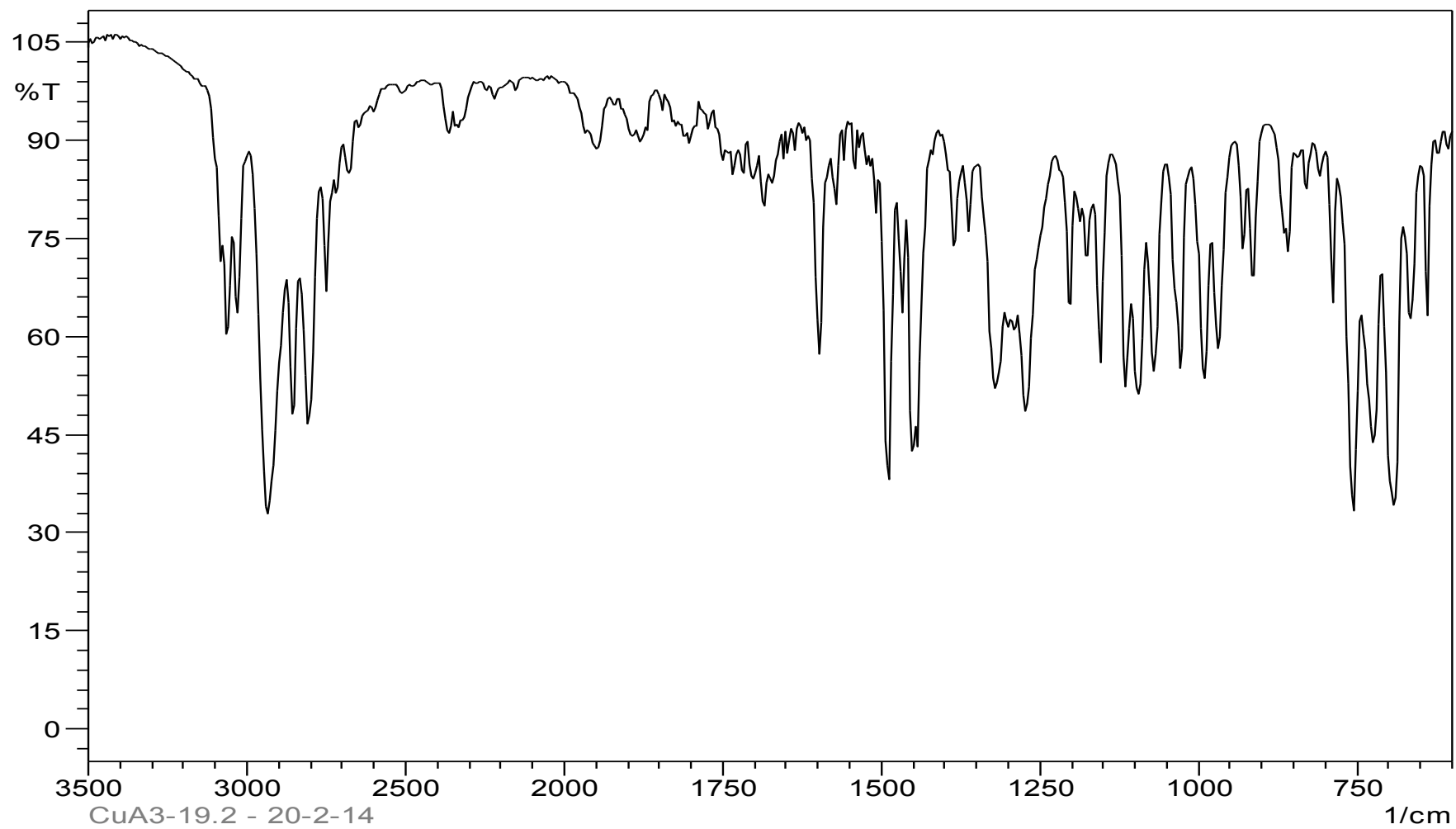
Product 4h – ¹H Spectrum



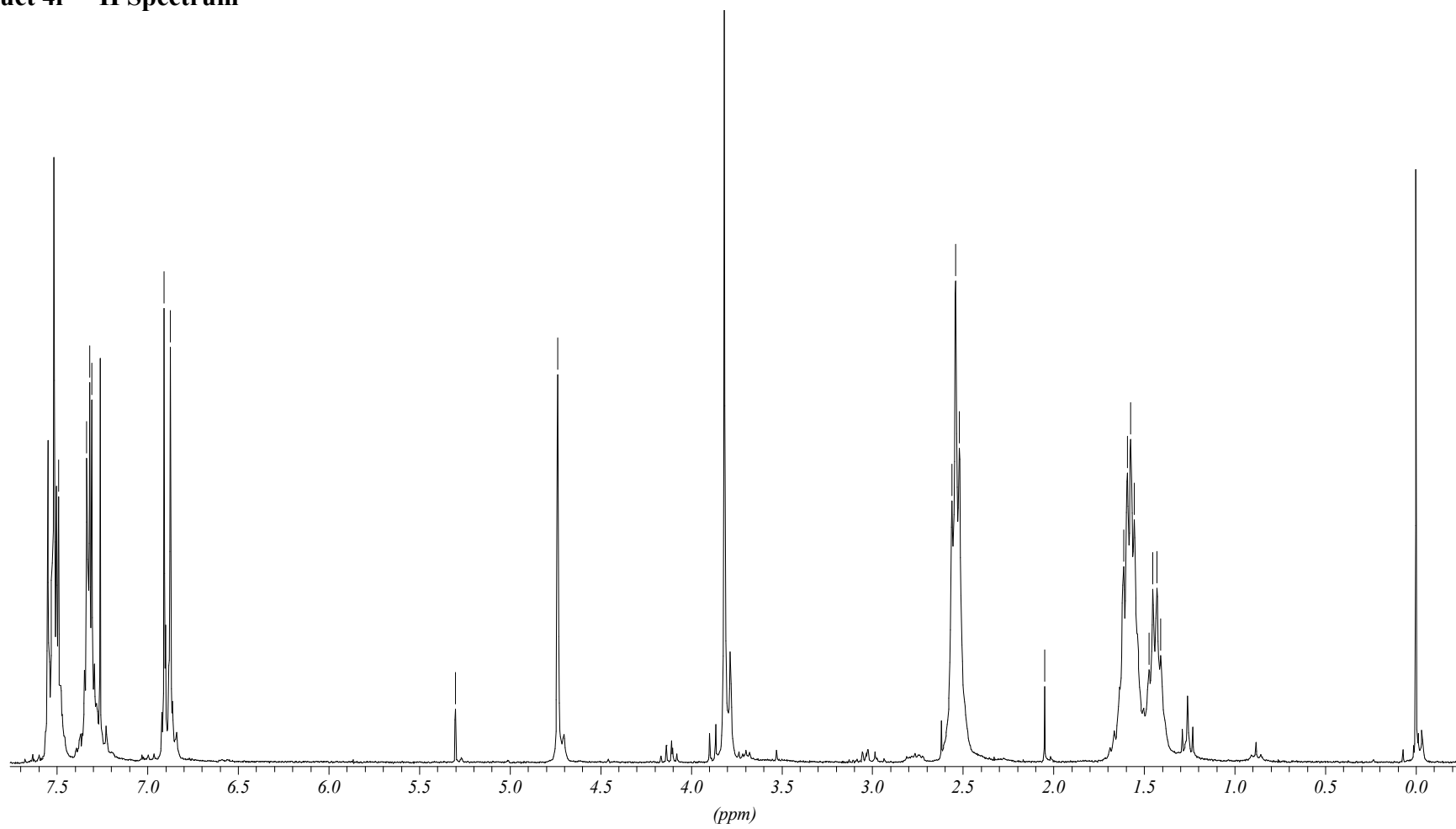
Product 4h – ^{13}C Spectrum



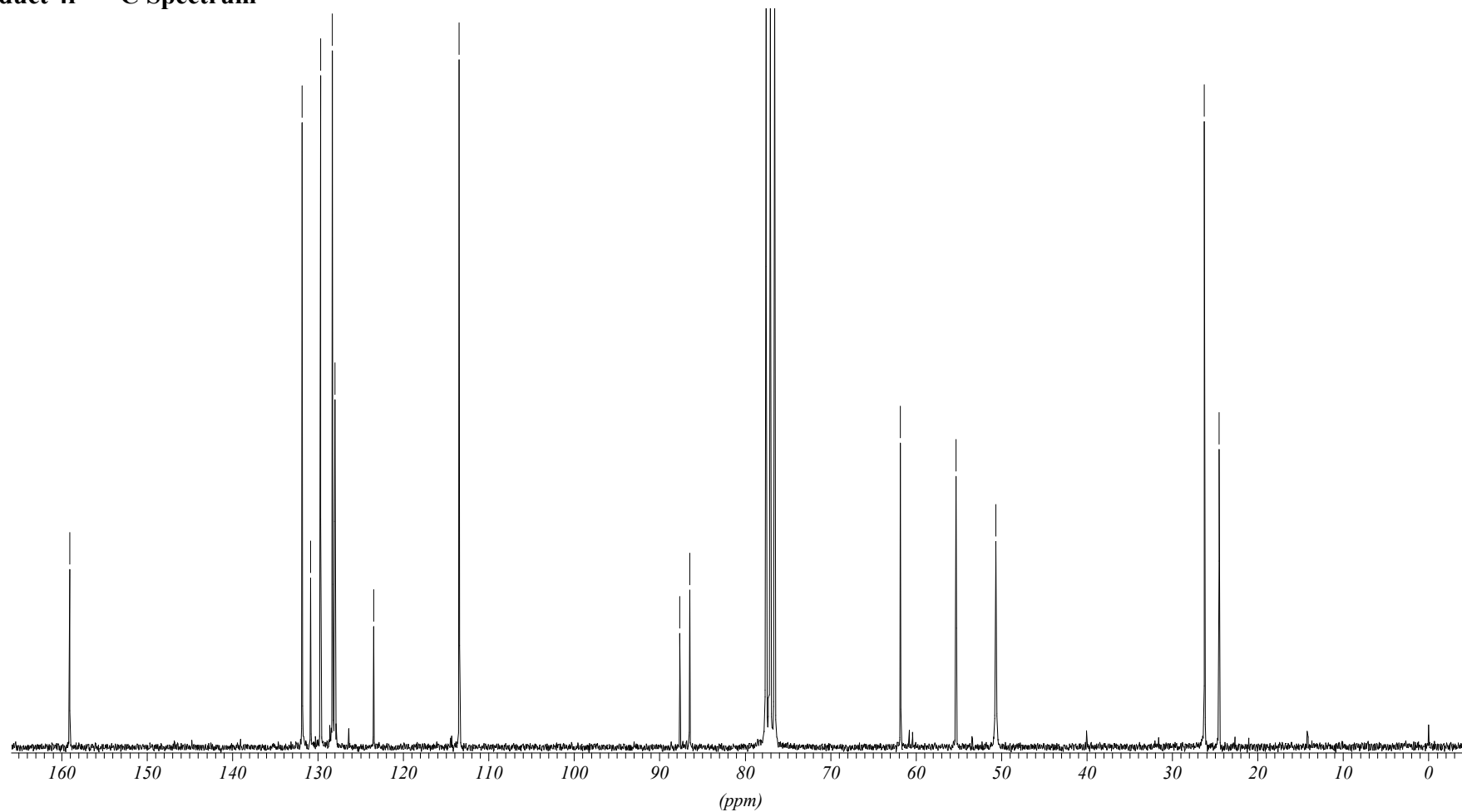
Product 4h – IR Spectrum



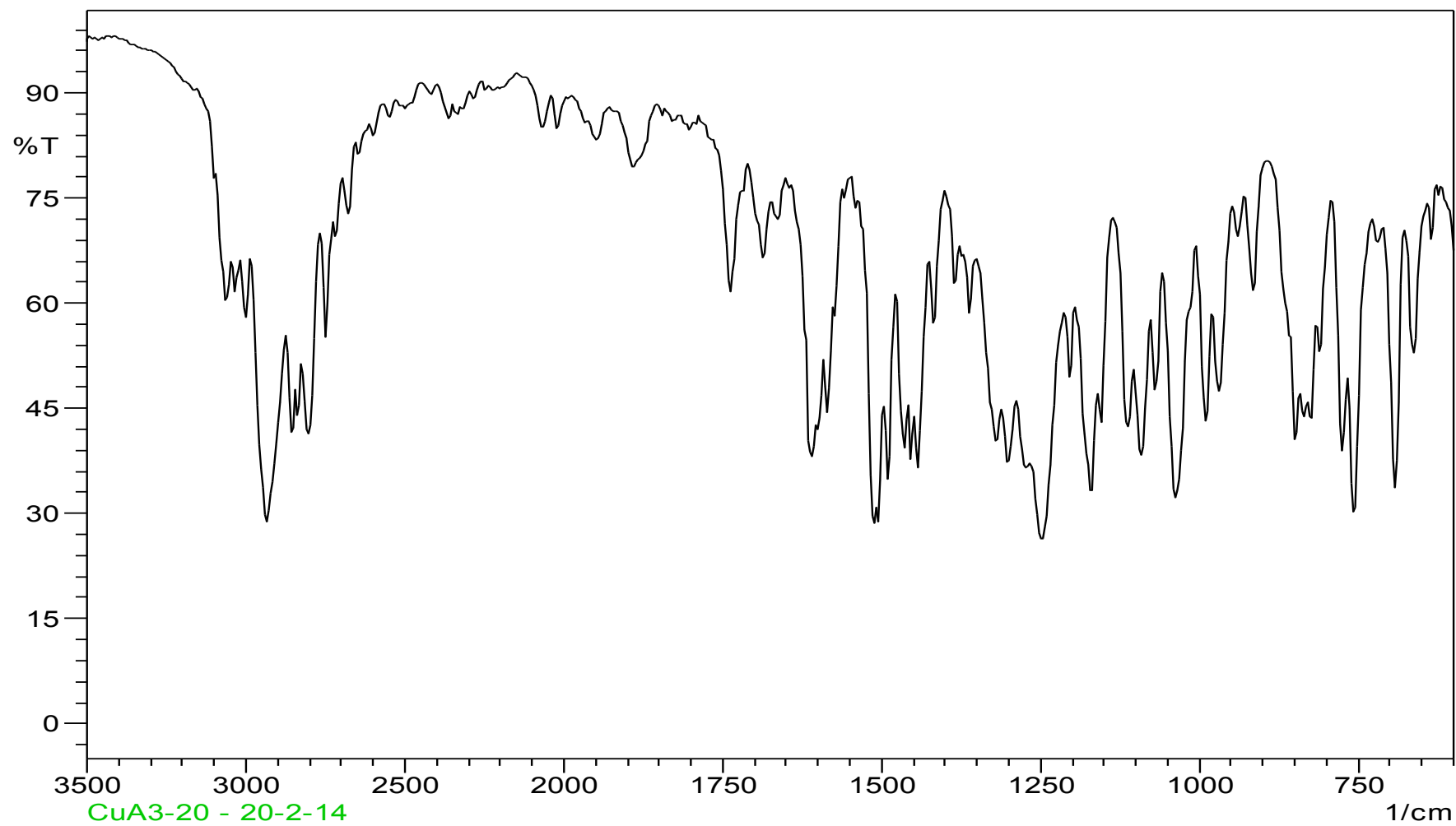
Product 4i – ¹H Spectrum



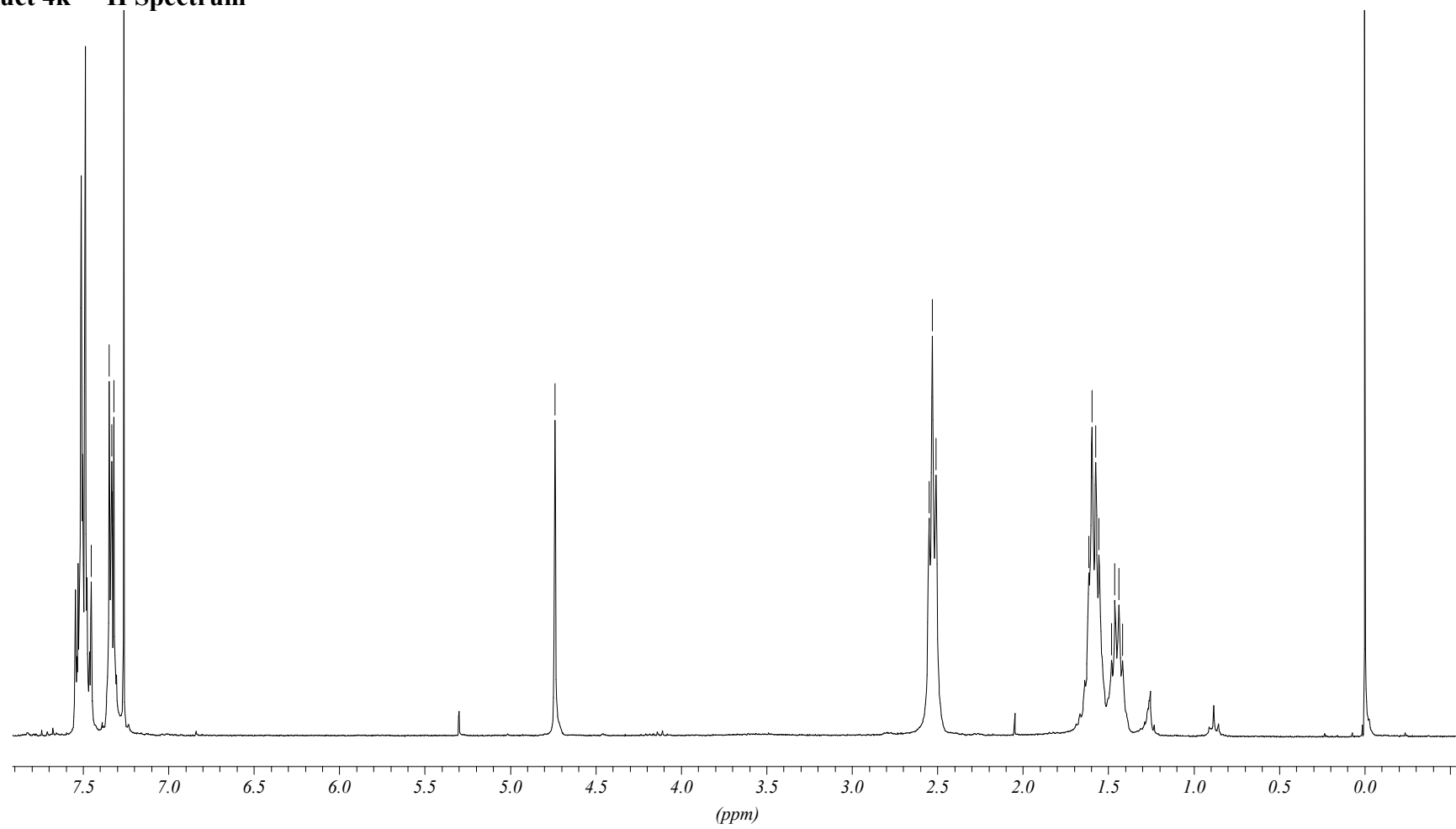
Product 4i – ^{13}C Spectrum



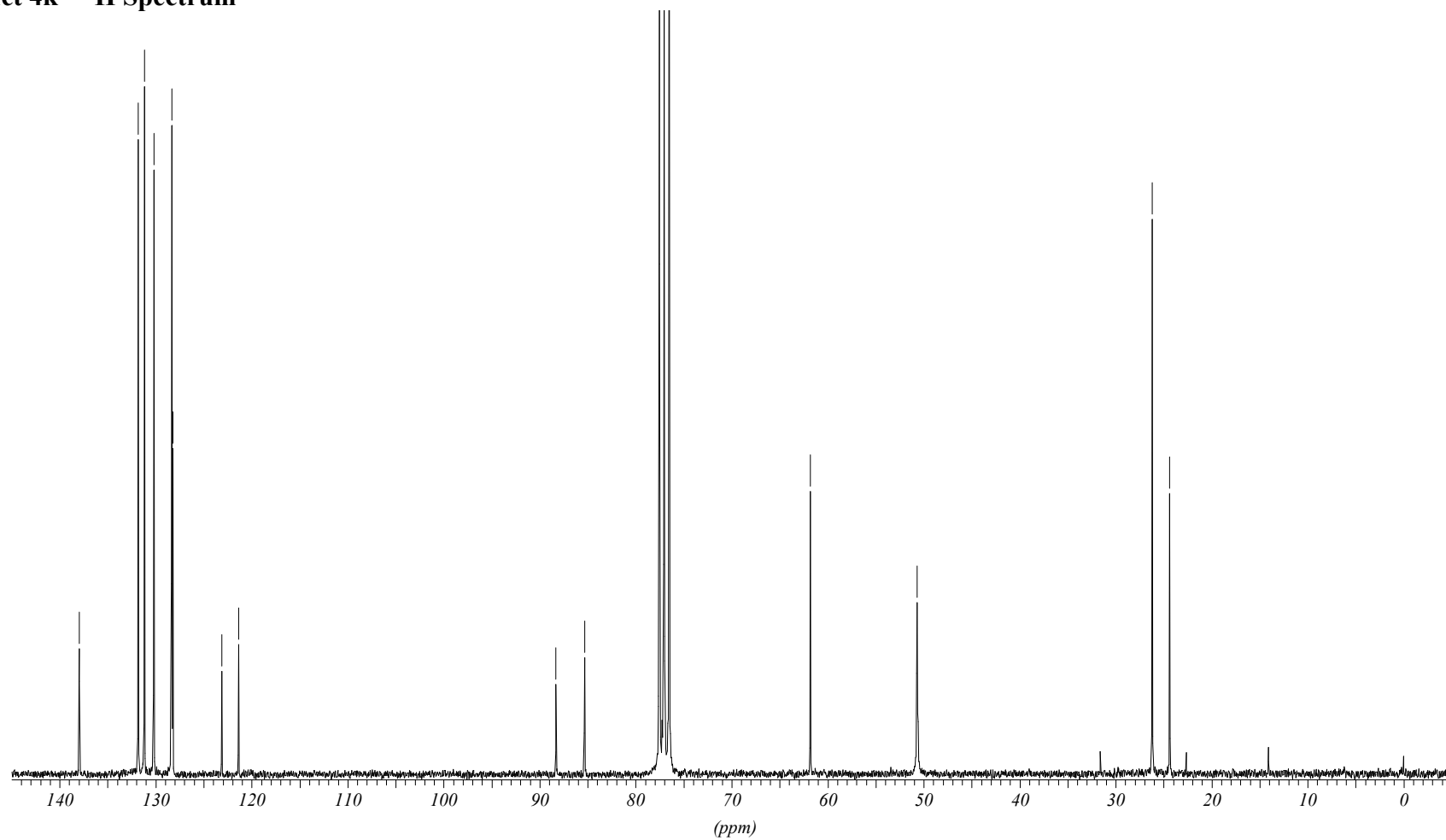
Product 4i – IR Spectrum



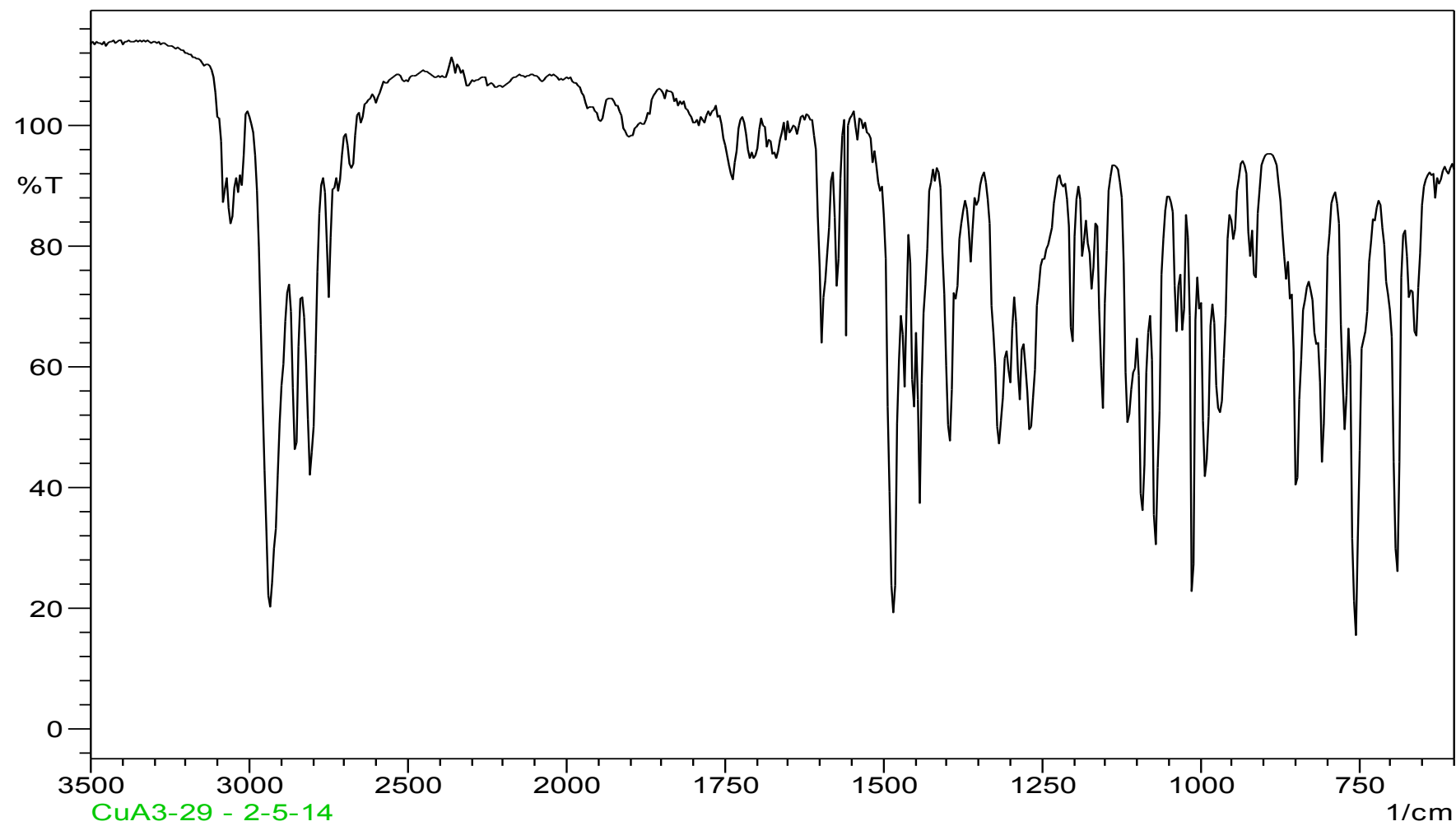
Product 4k – ¹H Spectrum



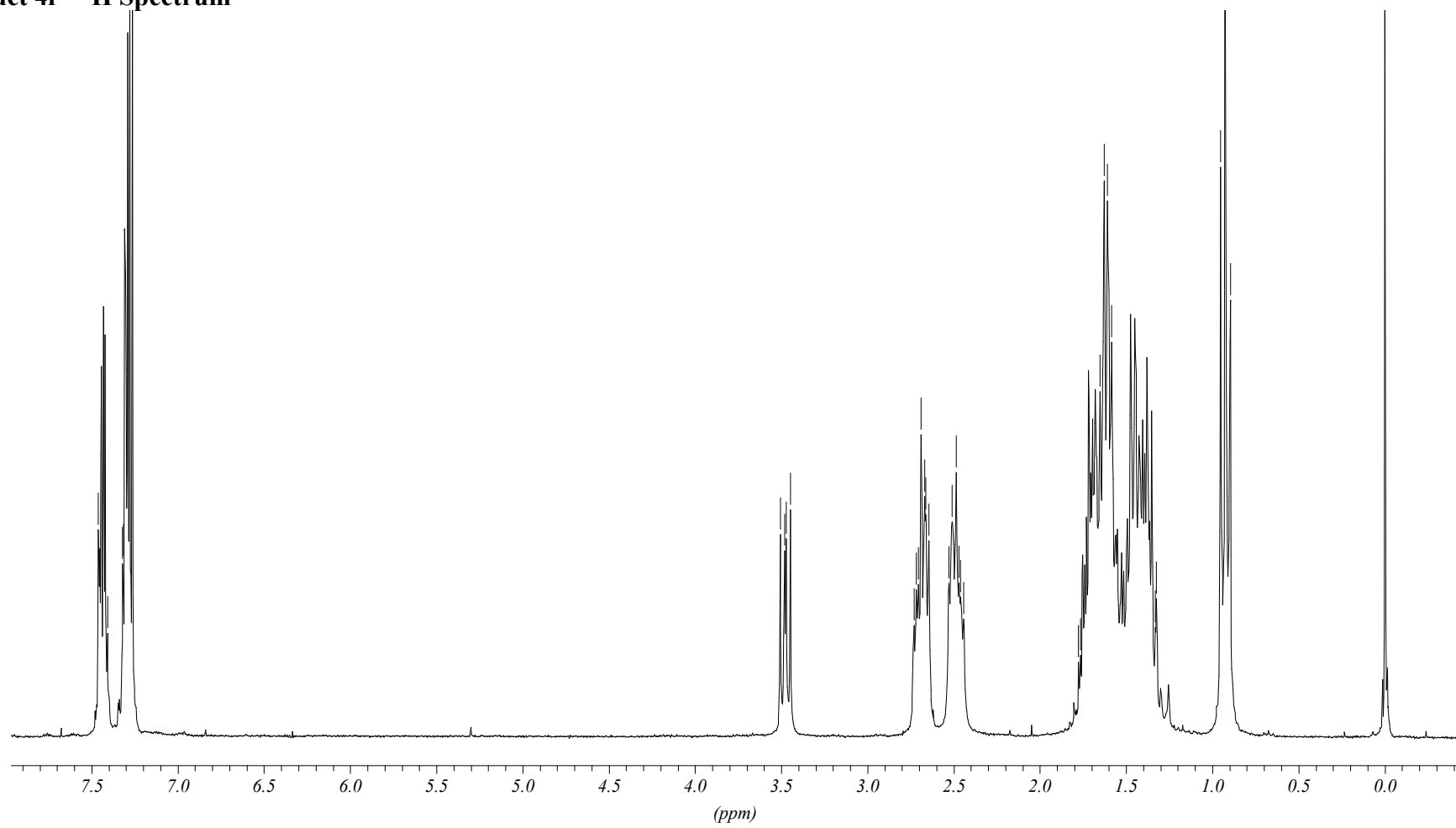
Product 4k – ¹H Spectrum



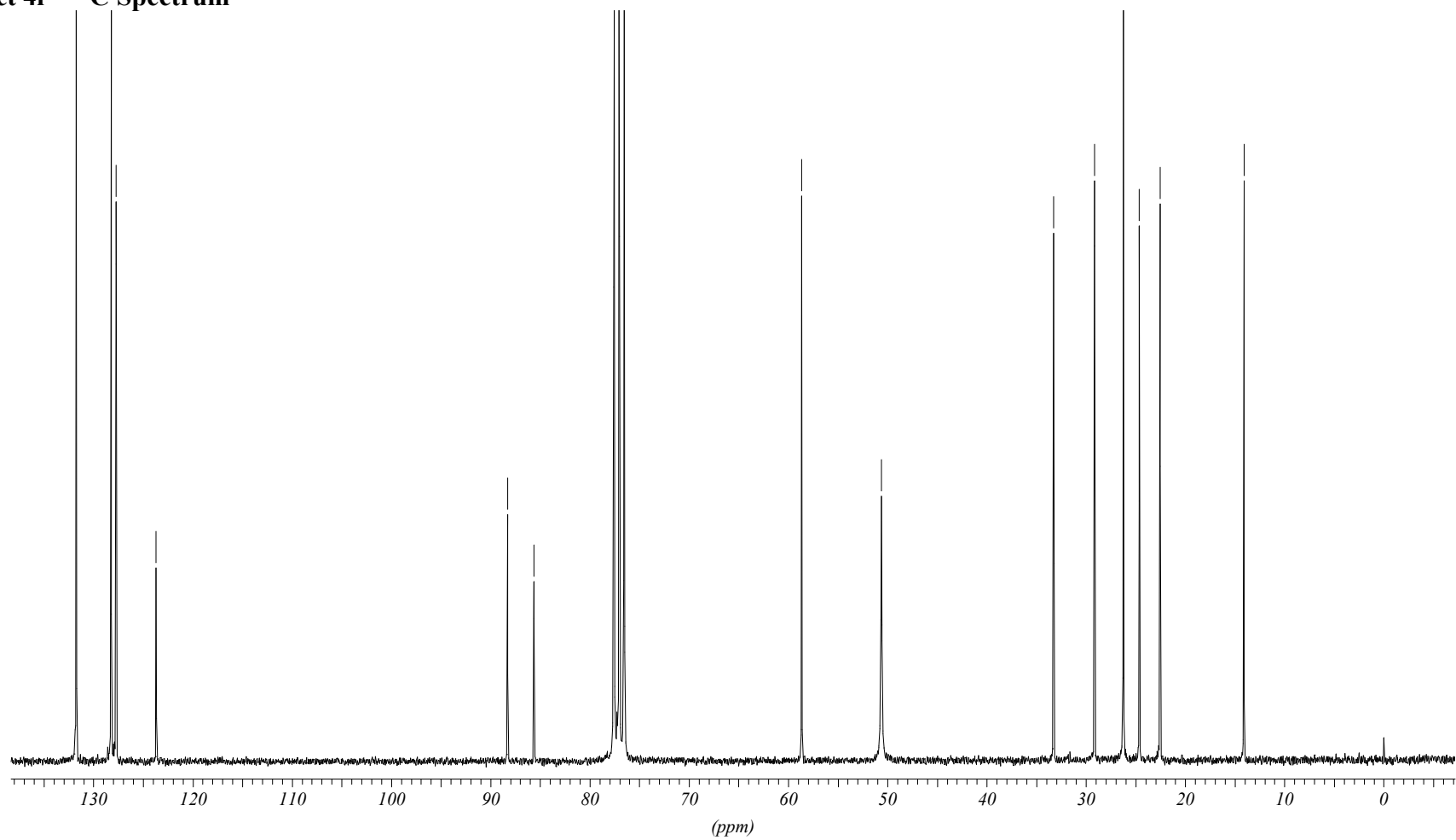
Product 4k – IR Spectrum



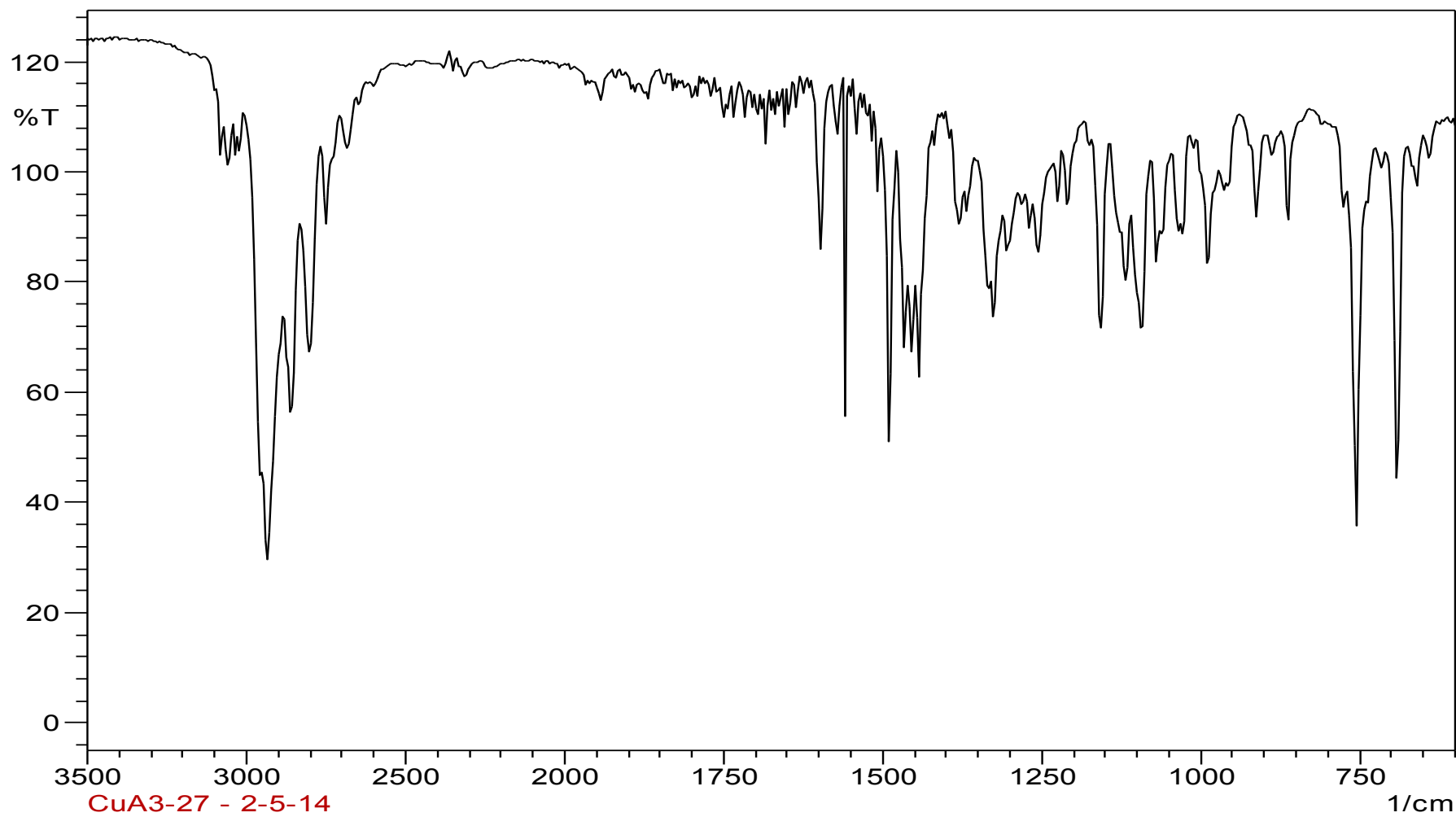
Product 4I – ¹H Spectrum



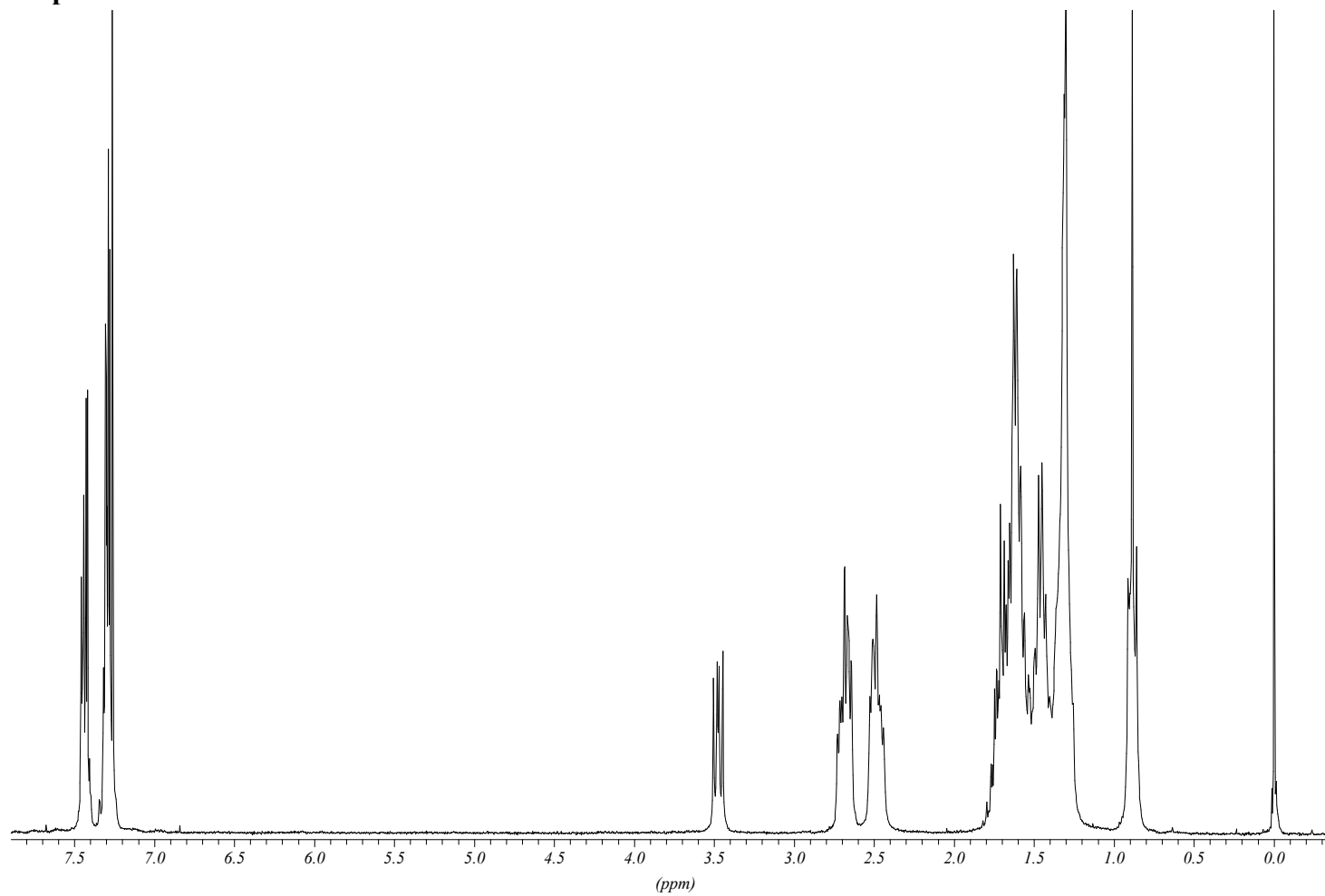
Product 4I – ¹³C Spectrum



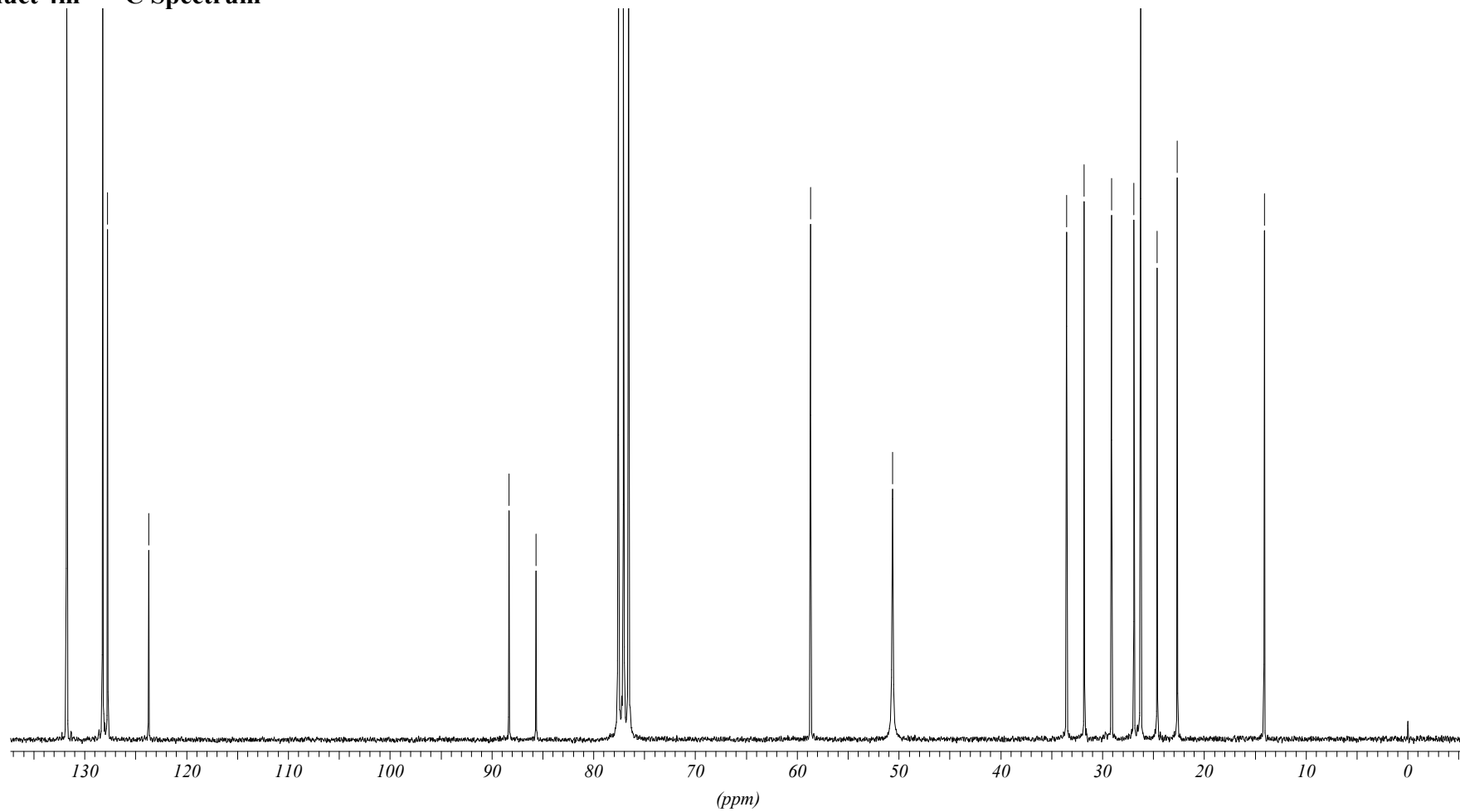
Product 4I – IR Spectrum



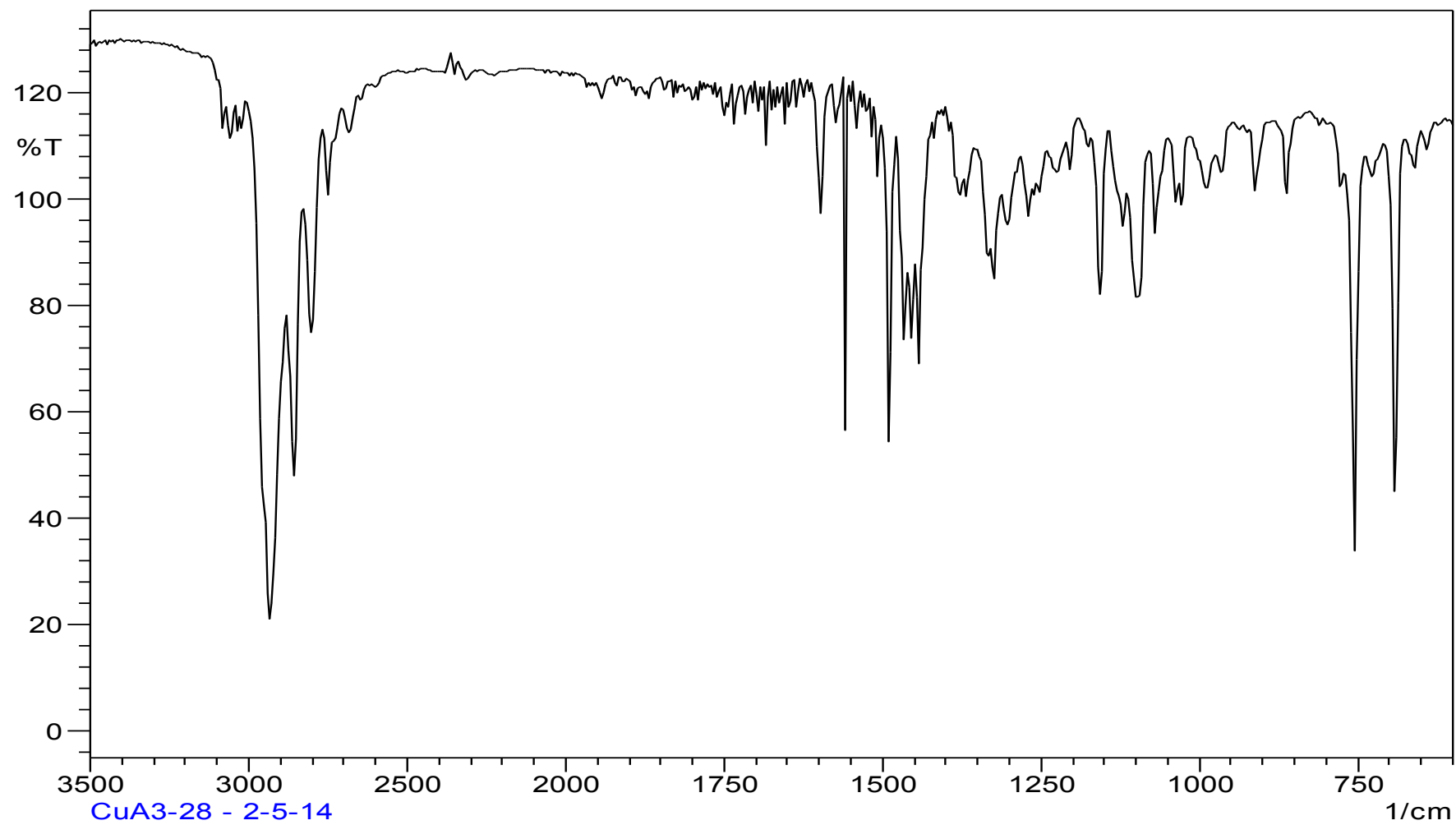
Product 4m – ^1H Spectrum



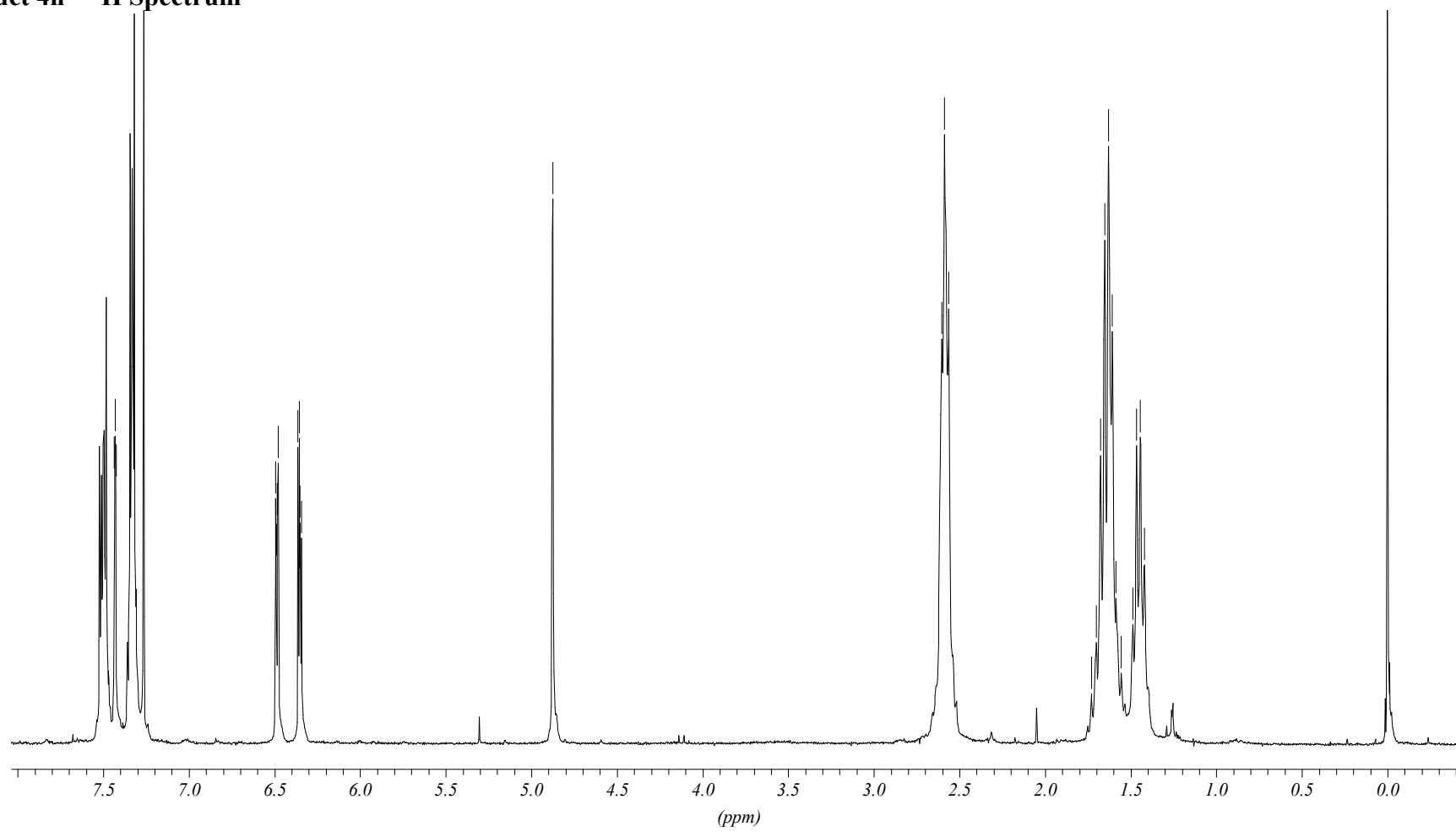
Product 4m – ¹³C Spectrum



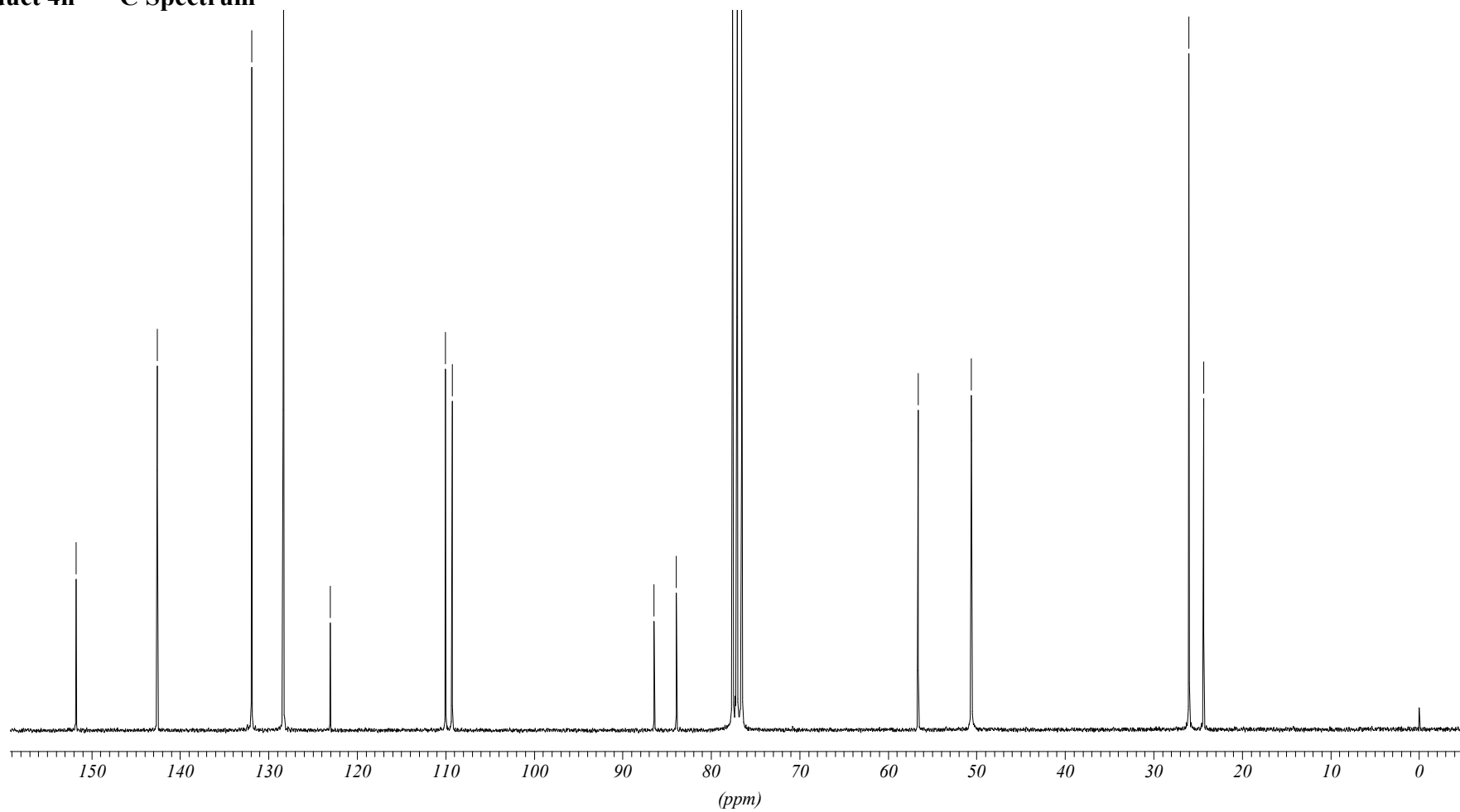
Product 4m – IR Spectrum



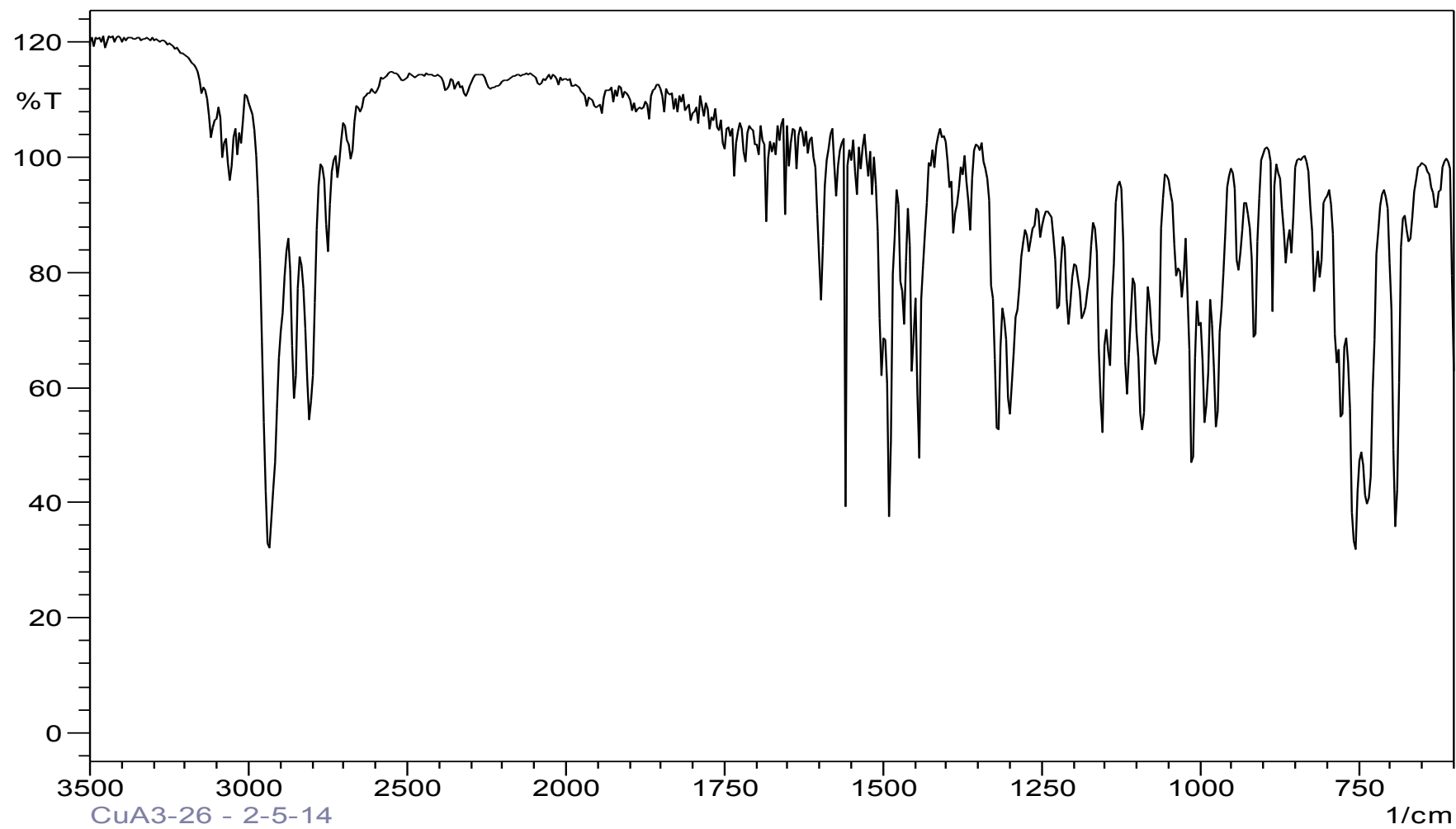
Product 4n – ¹H Spectrum



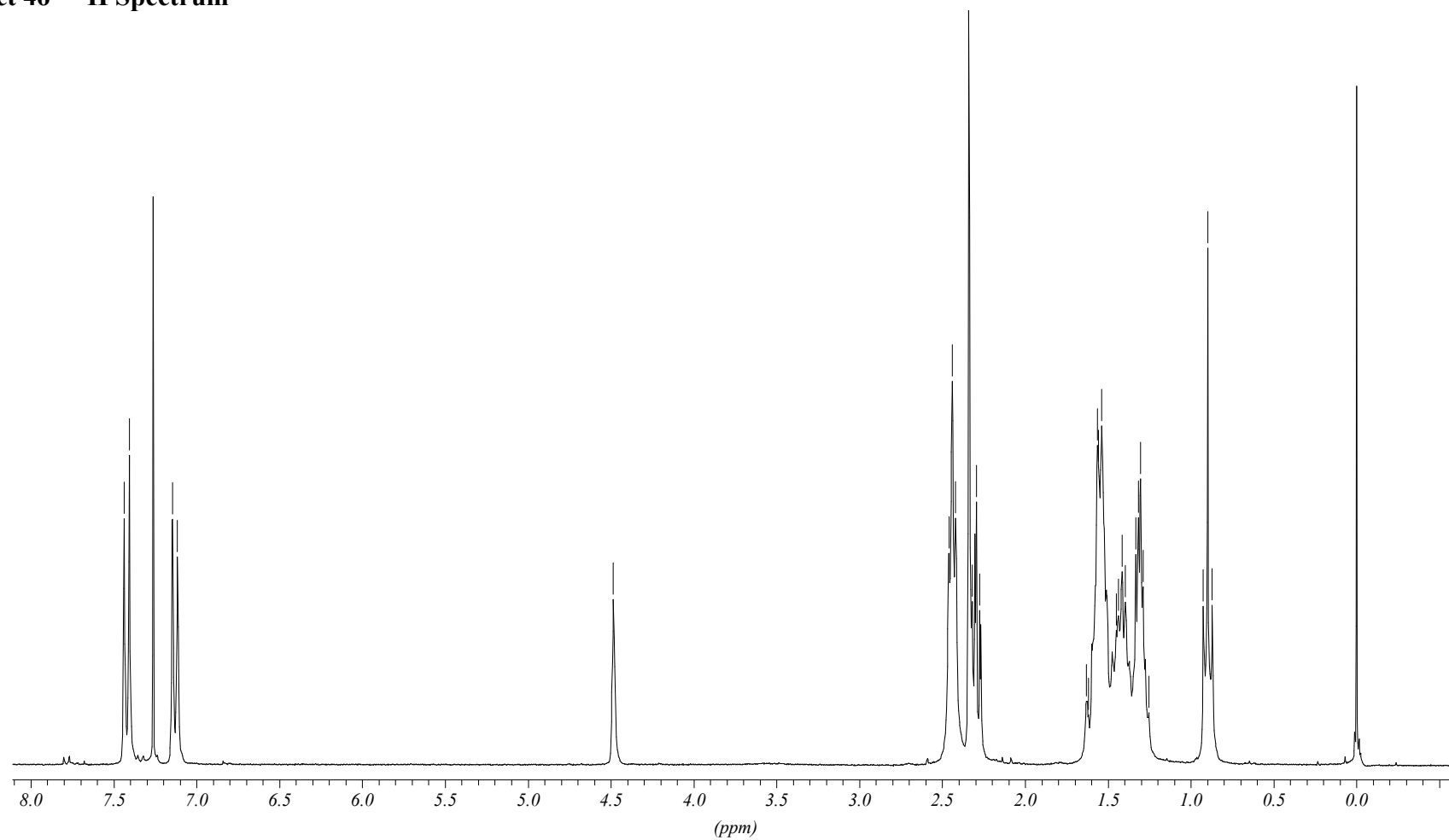
Product 4n – ¹³C Spectrum



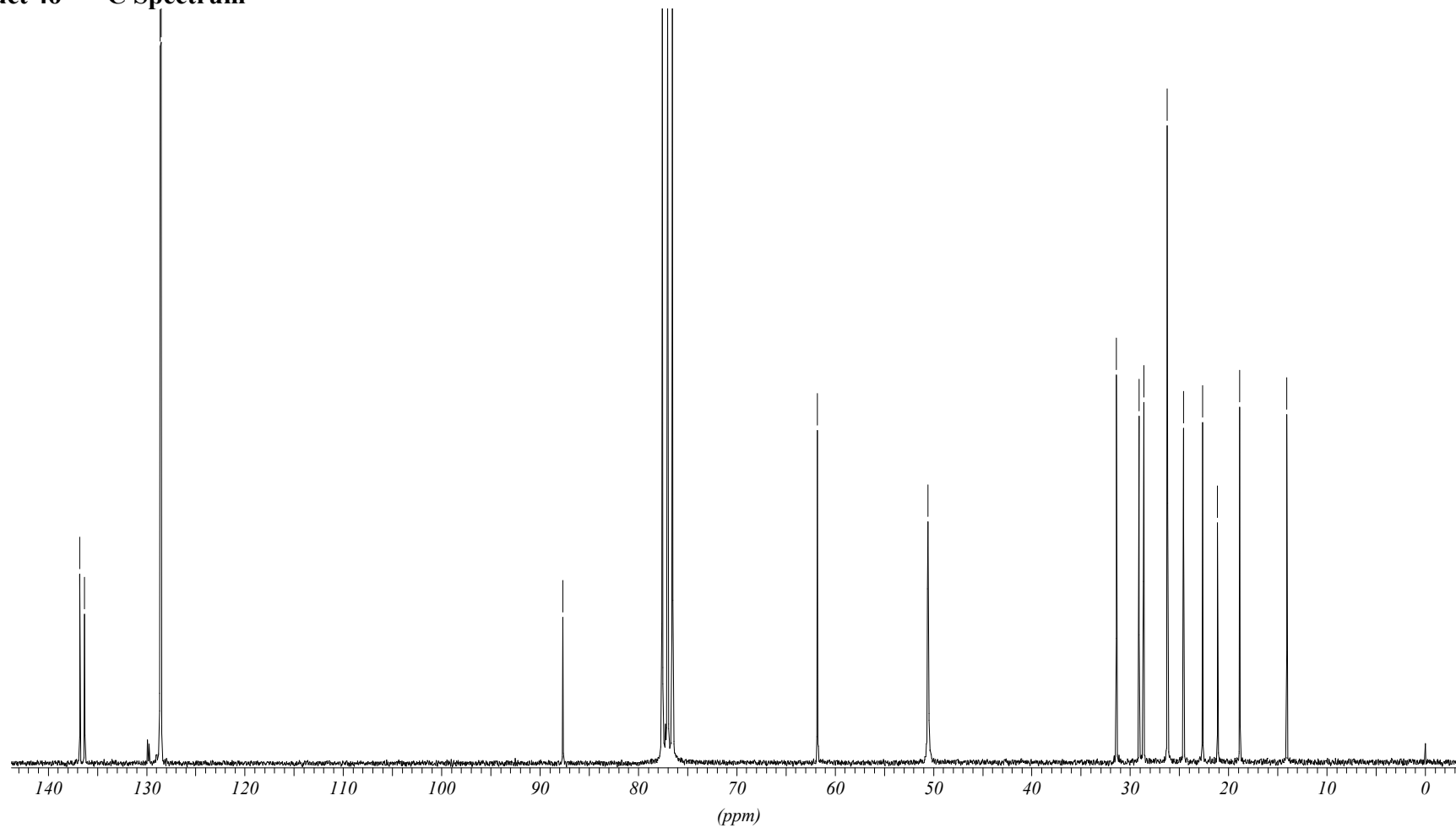
Product 4n – IR Spectrum



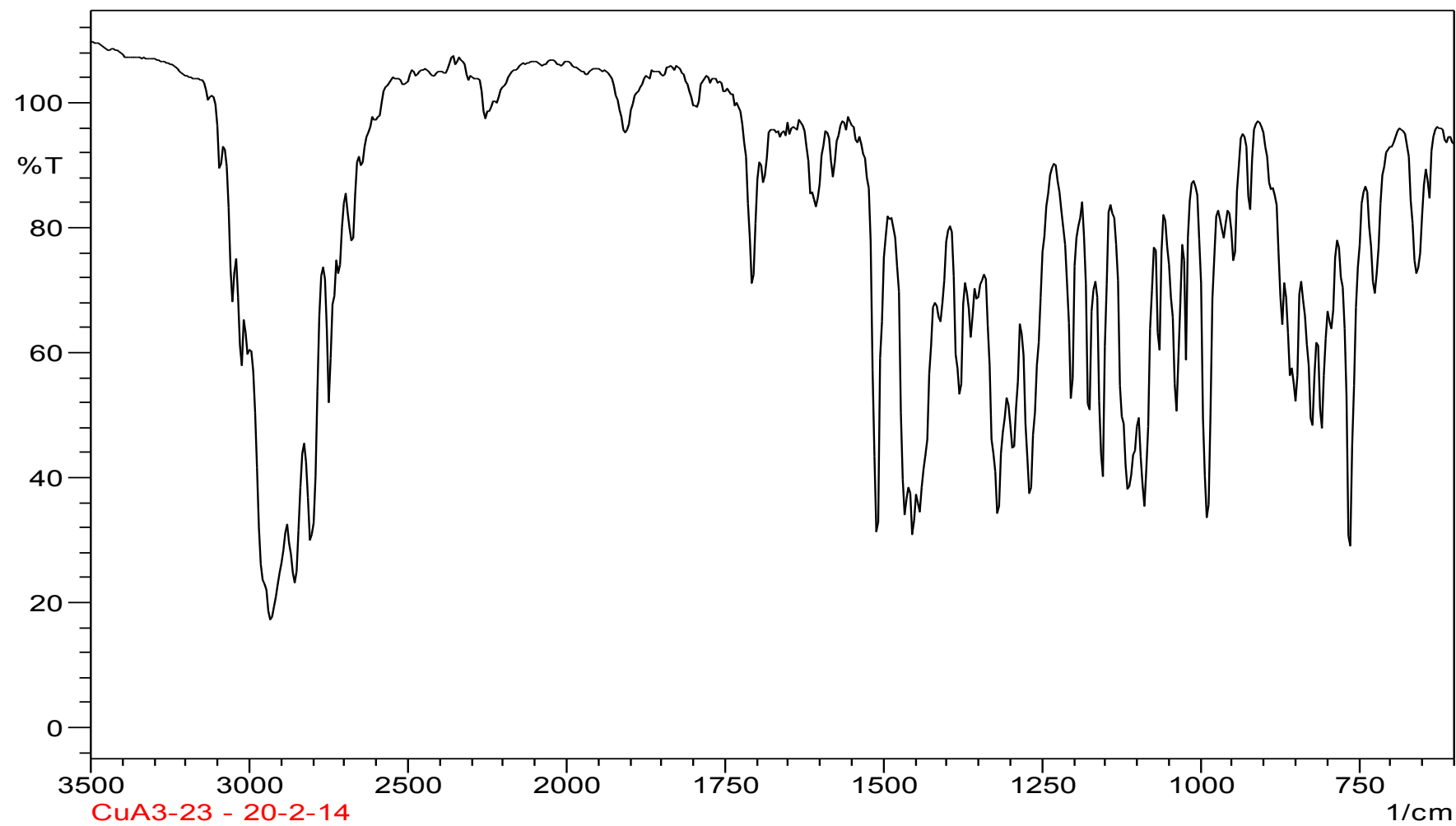
Product 4o – ¹H Spectrum



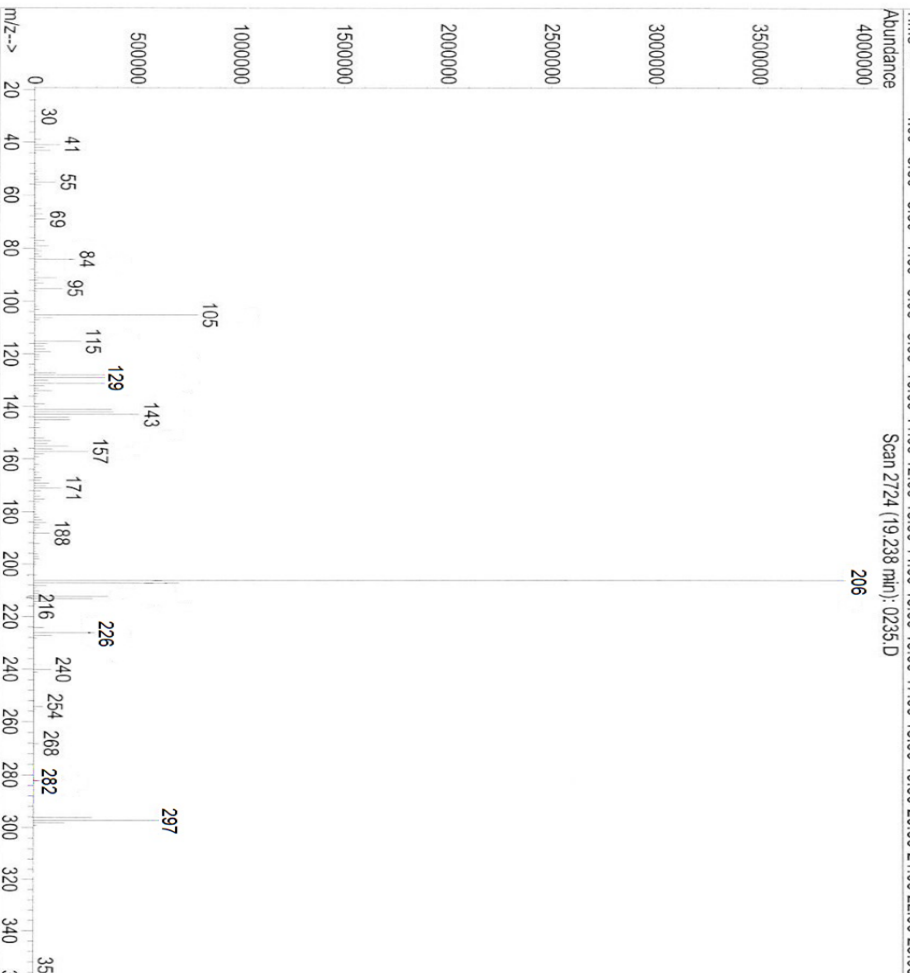
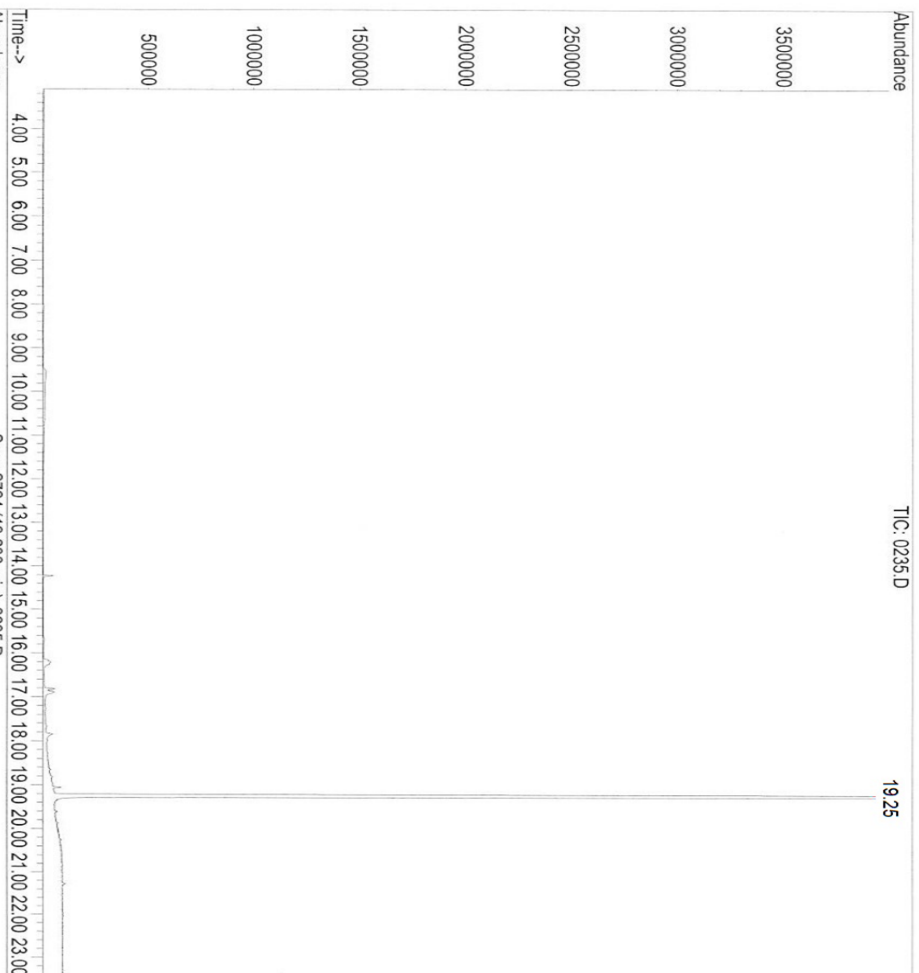
Product 4o – ¹³C Spectrum



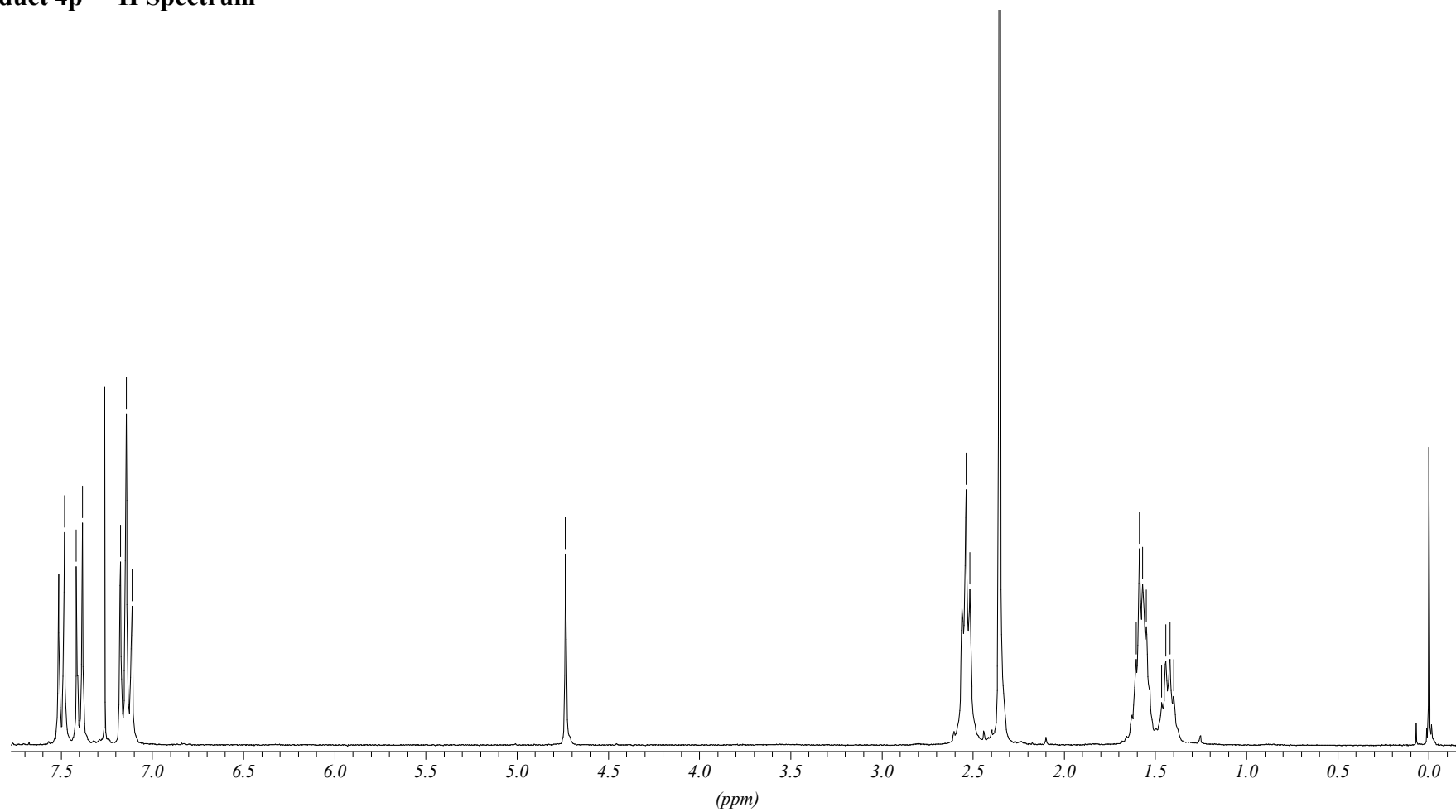
Product 4o – IR Spectrum



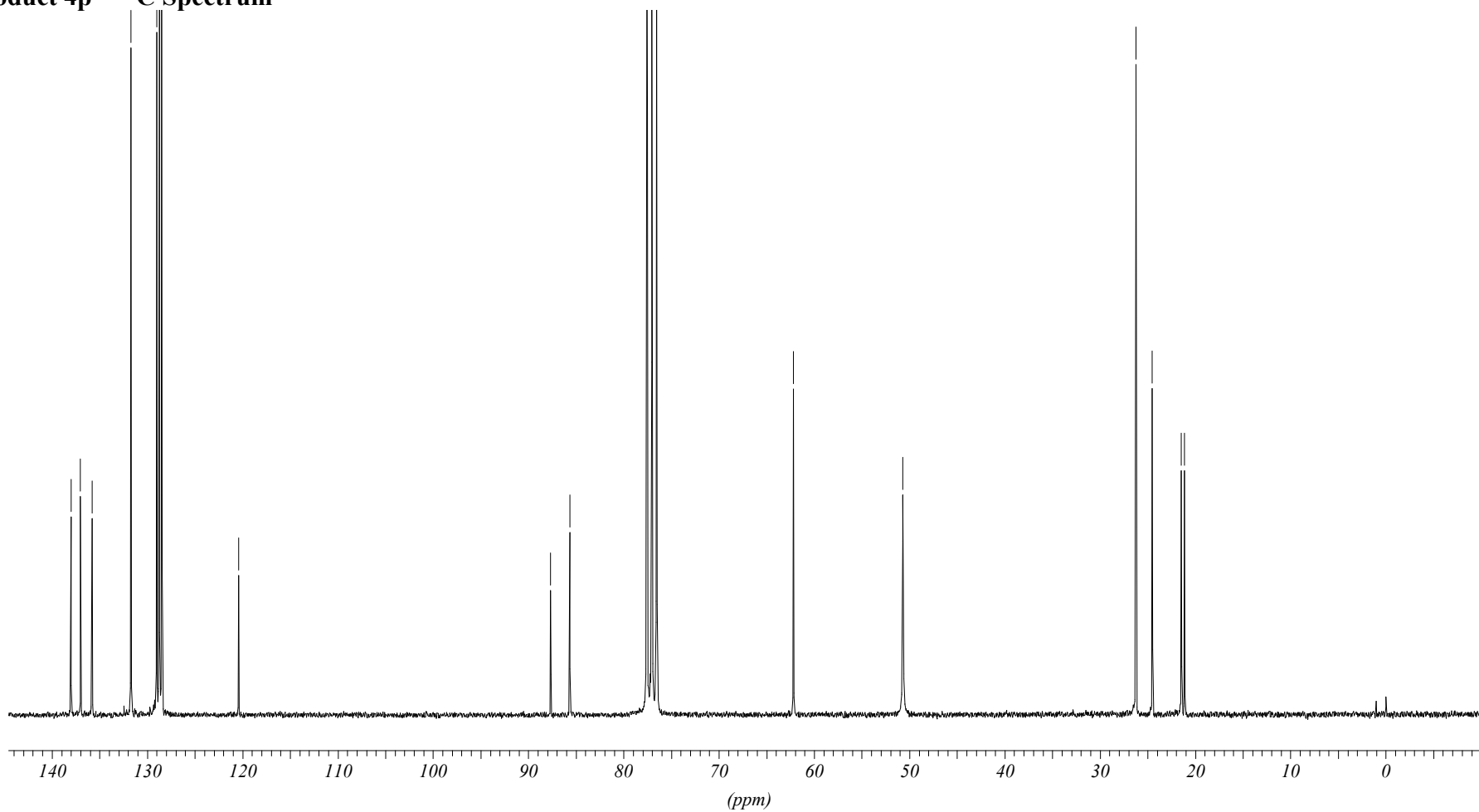
Product 4o – GC-MS Spectrum



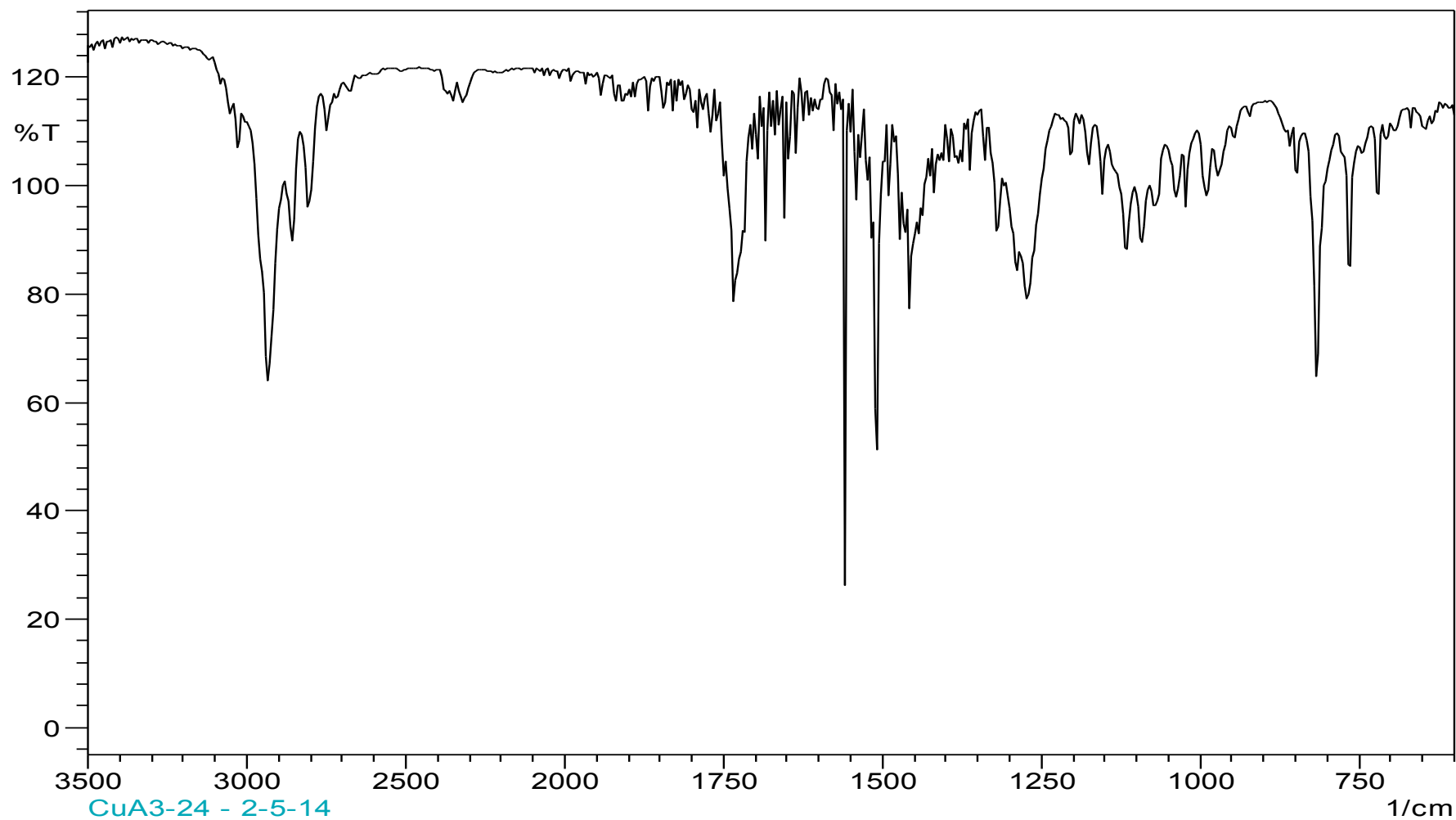
Product 4p – ^1H Spectrum



Product 4p – ¹³C Spectrum

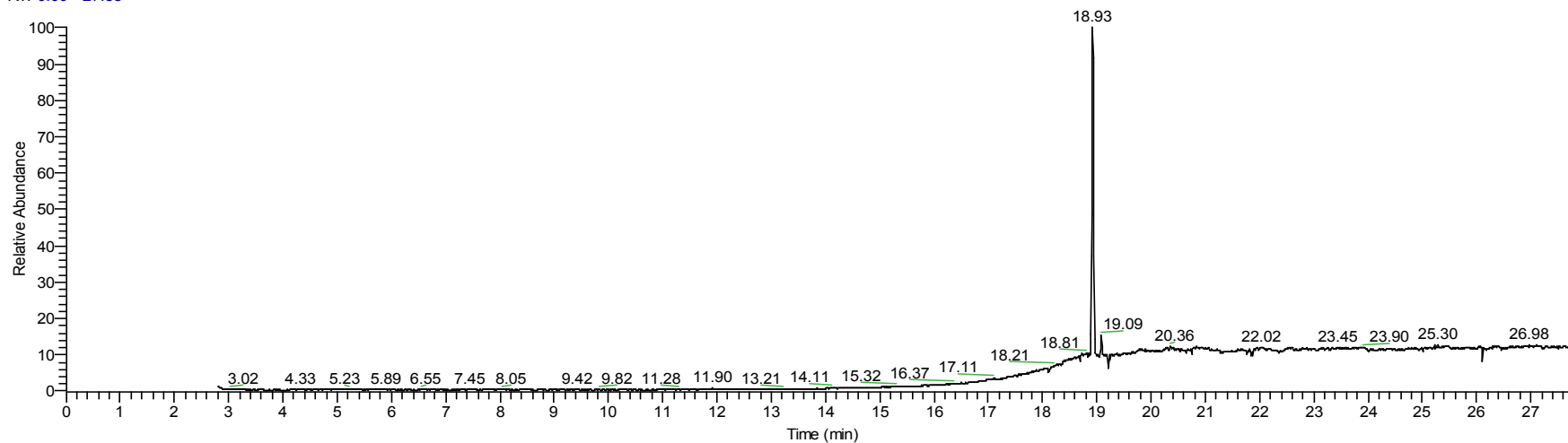


Product 4p – IR Spectrum



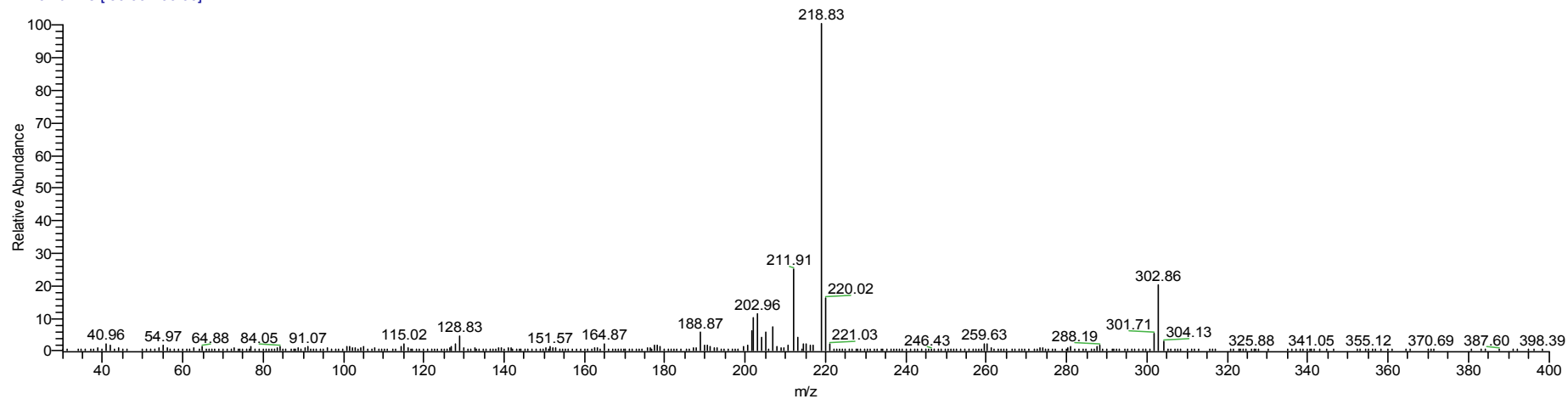
Product 4p – GC-MS Spectrum

RT: 0.00 - 27.88

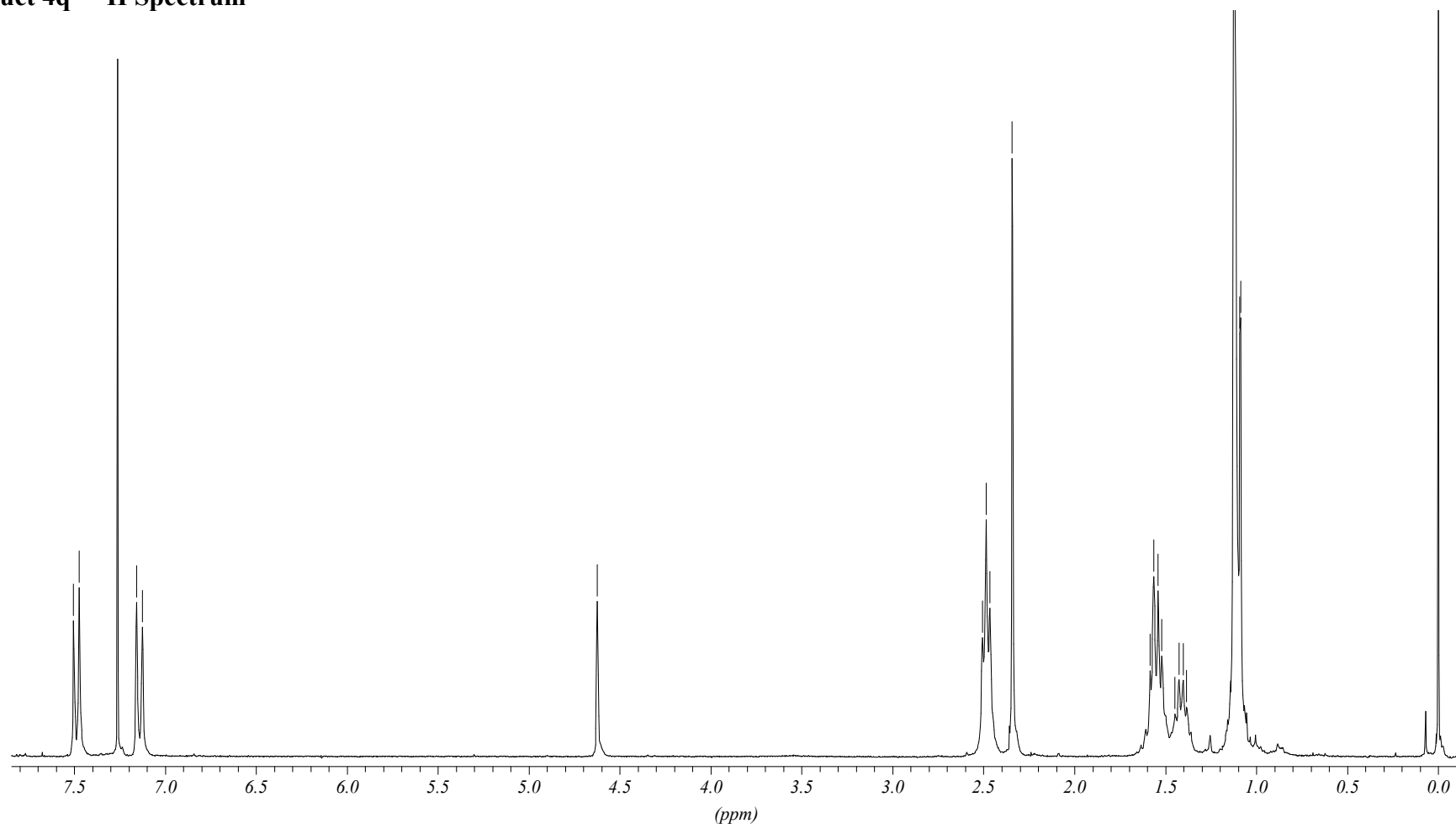


NL:
2.18E7
TIC F: MS
CuA3-24r1

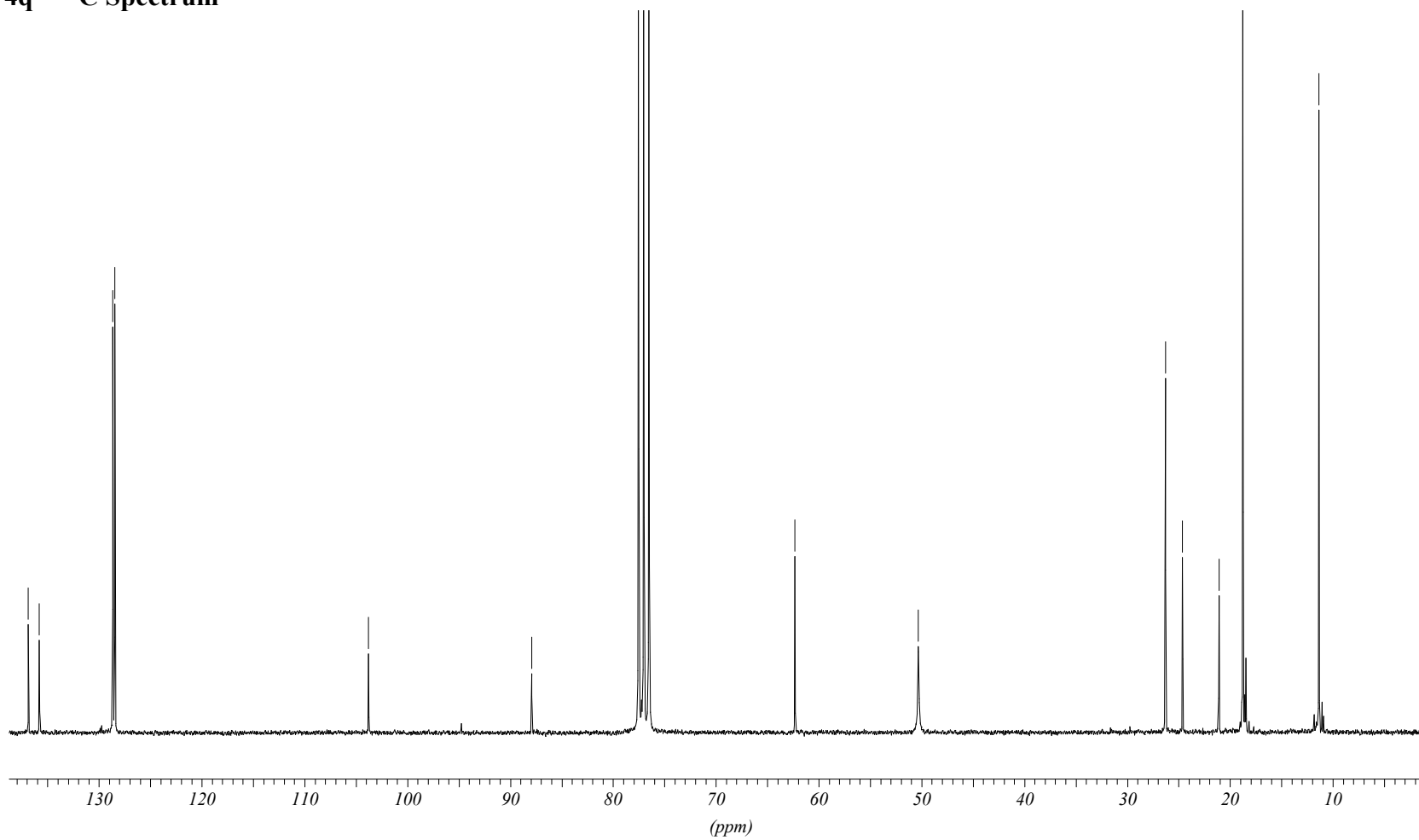
CuA3-24r1 #1271 RT: 18.93 AV: 1 SB: 2 10.76, 17.08 NL: 6.60E6
T: + c Full ms [30.00-400.00]



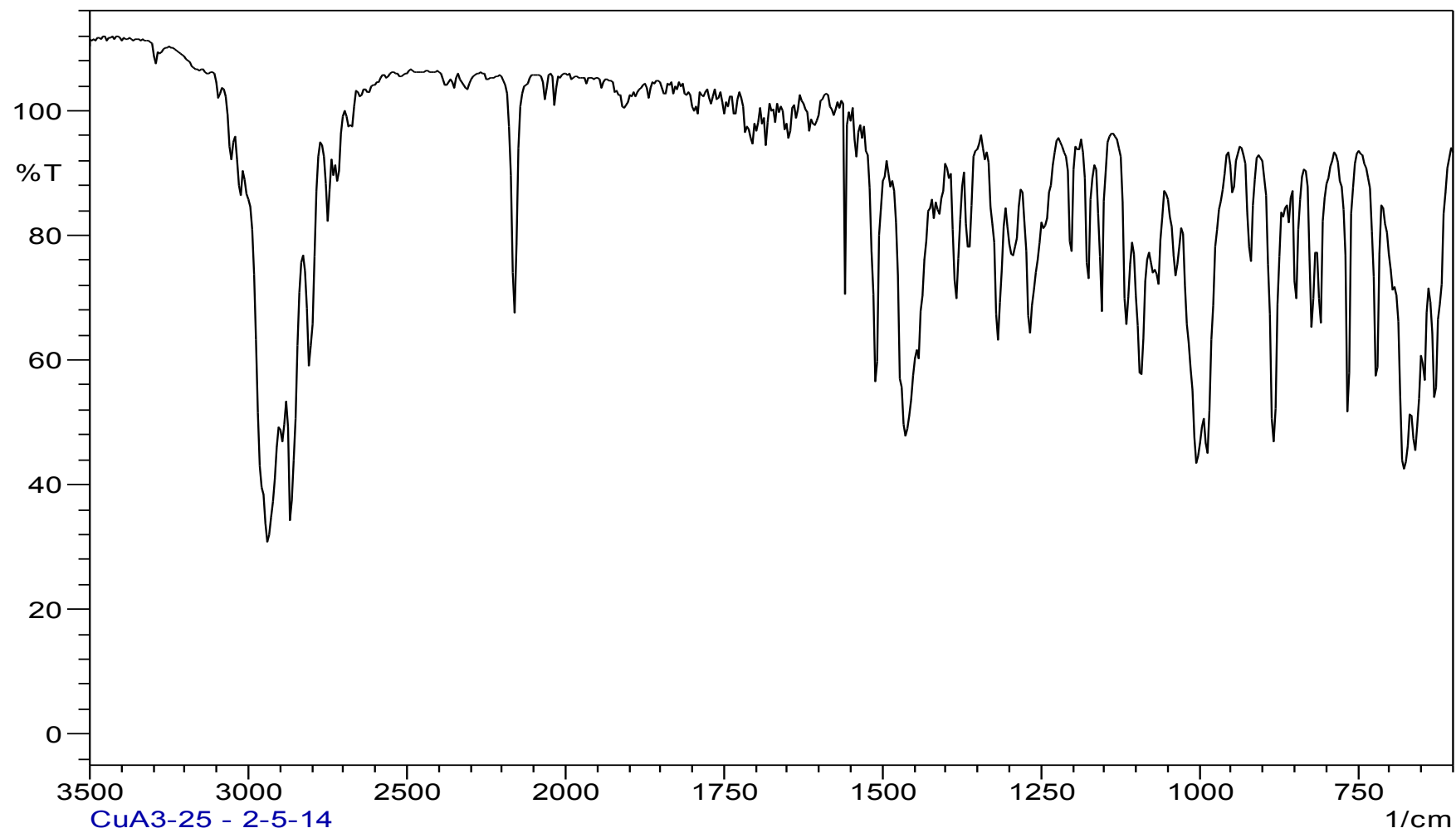
Product 4q – ¹H Spectrum



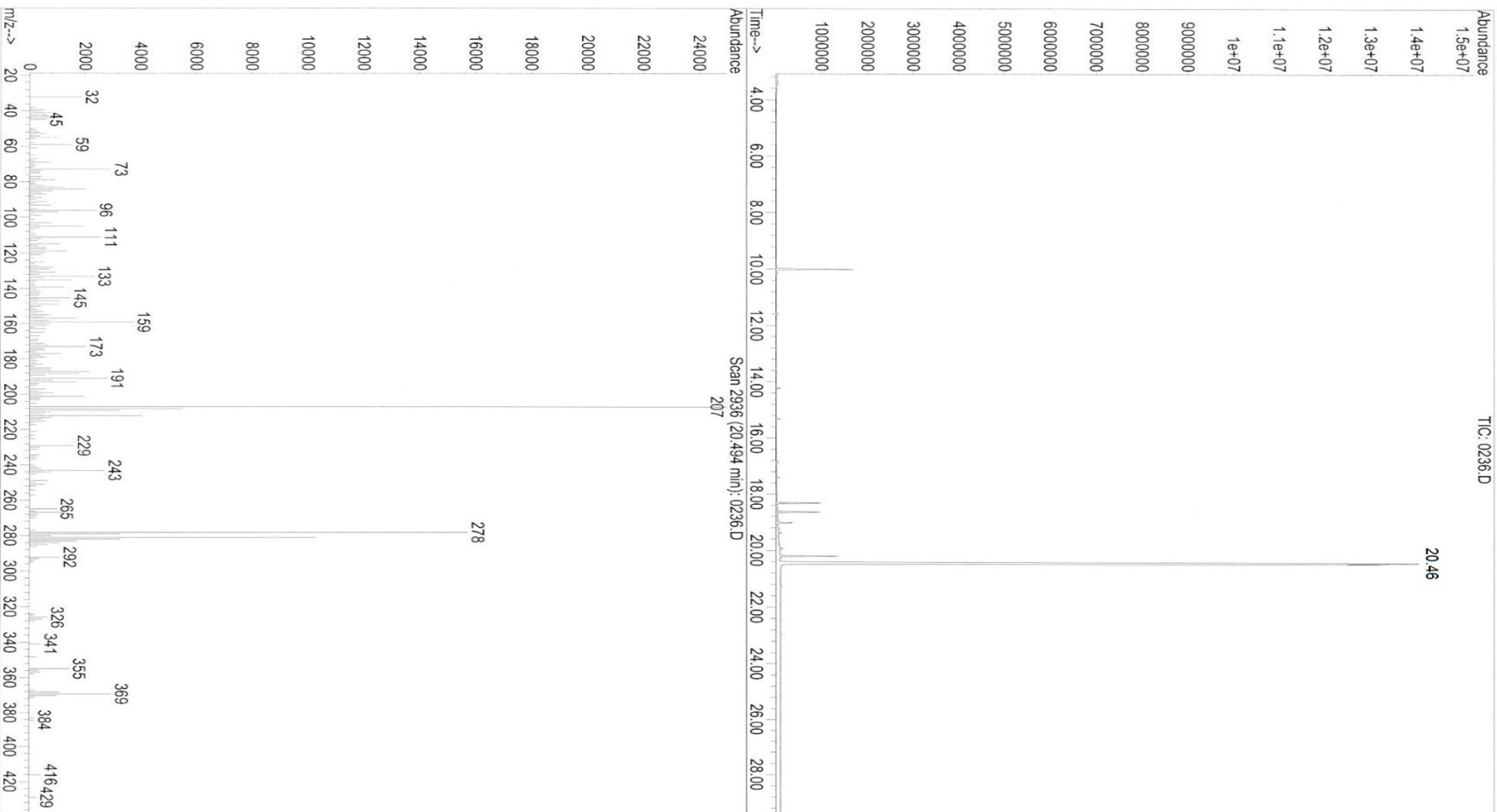
Product 4q – ^{13}C Spectrum



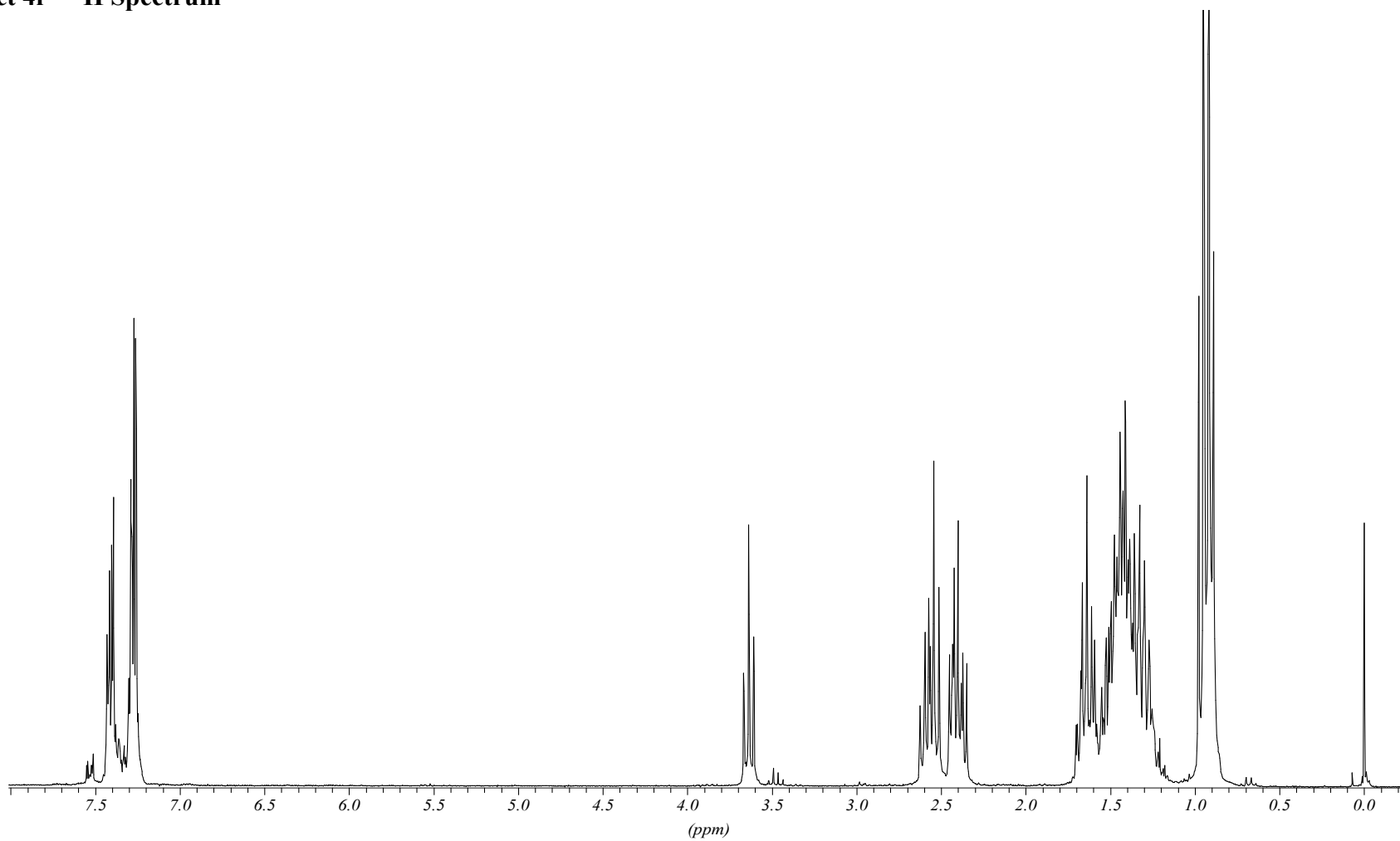
Product 4q – IR Spectrum



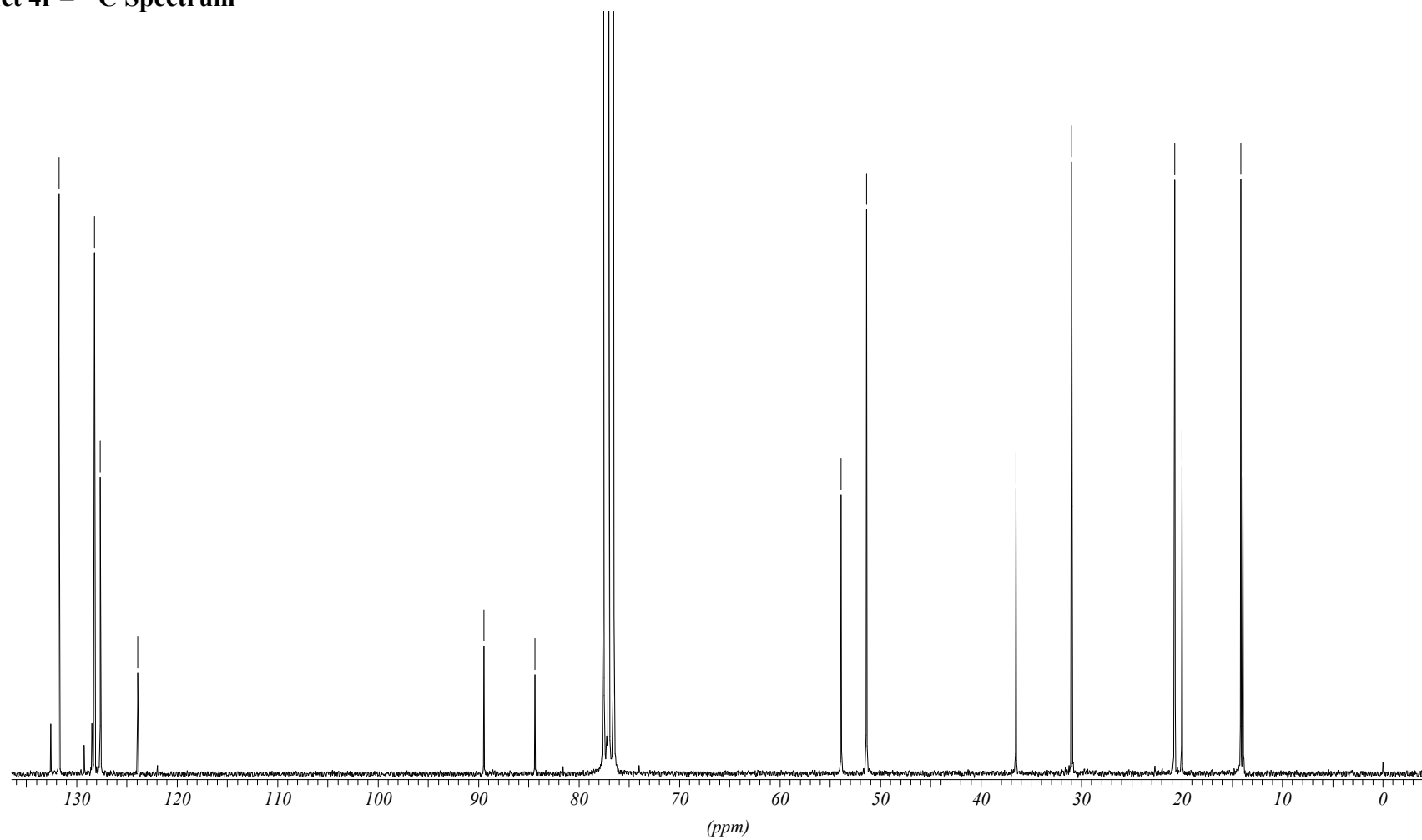
Product 4q – GC-MS Spectrum



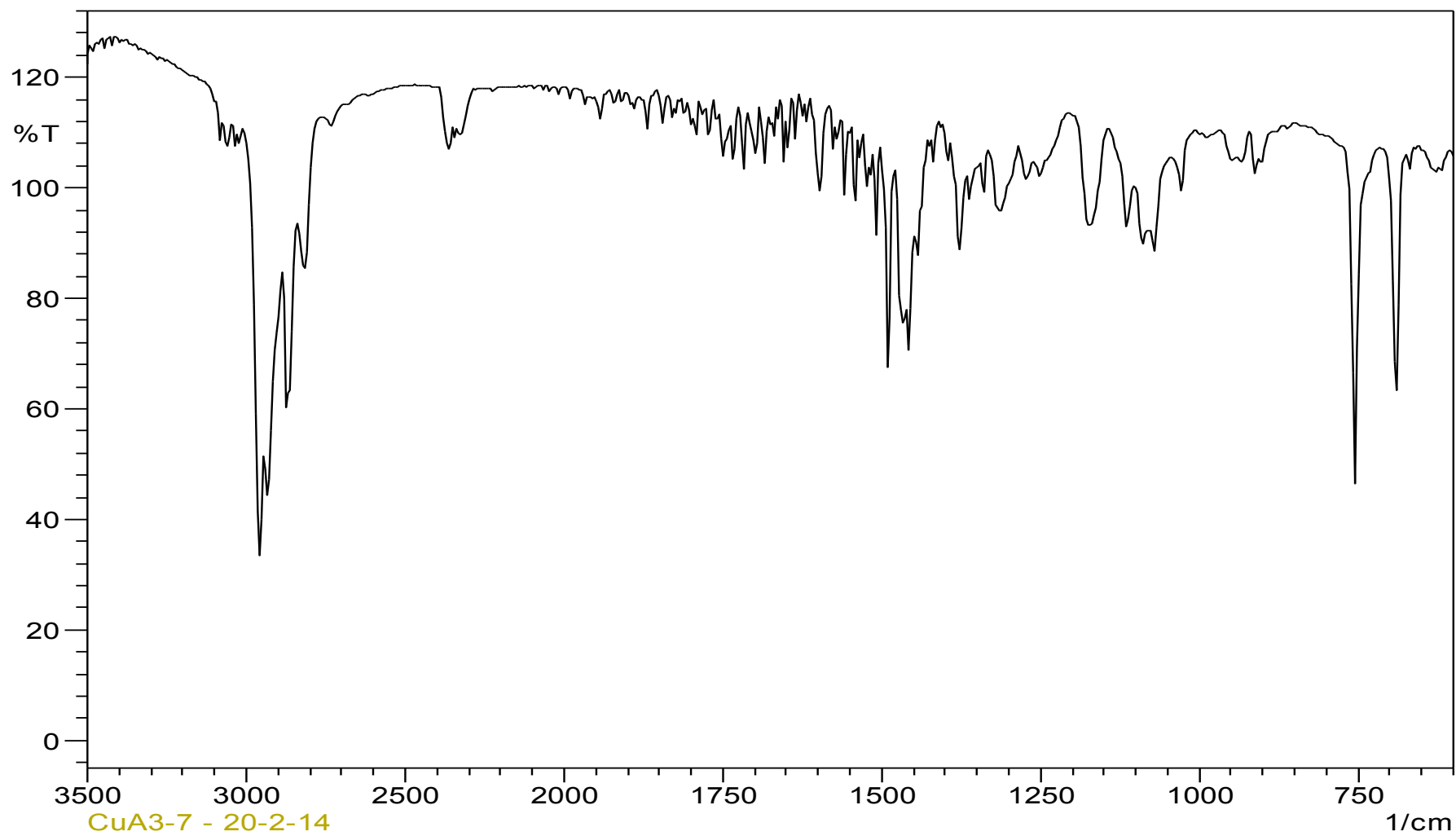
Product 4r – ^1H Spectrum



Product 4r – ^{13}C Spectrum

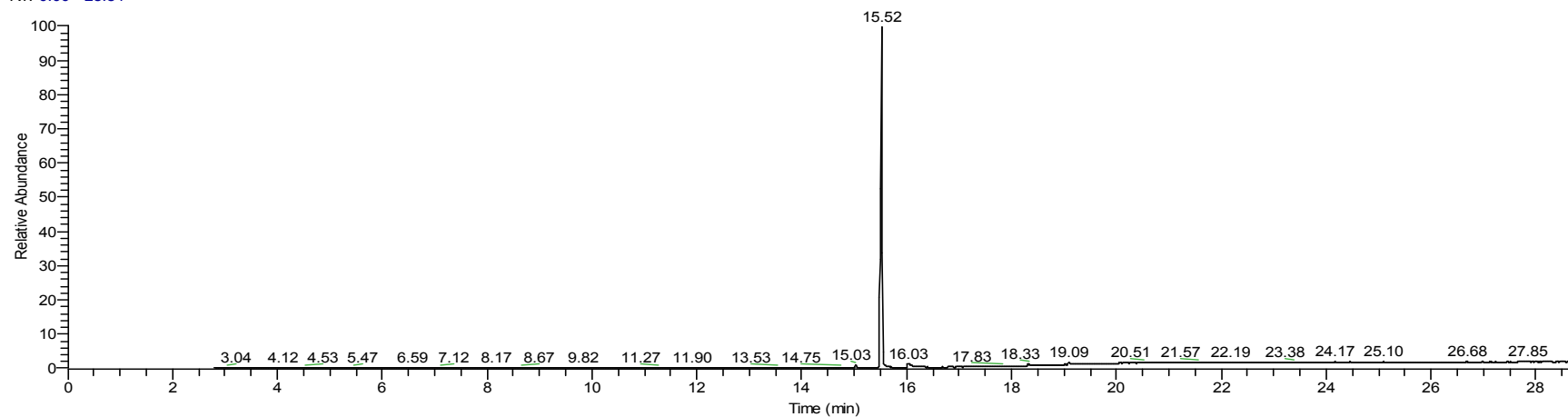


Product 4r – IR Spectrum



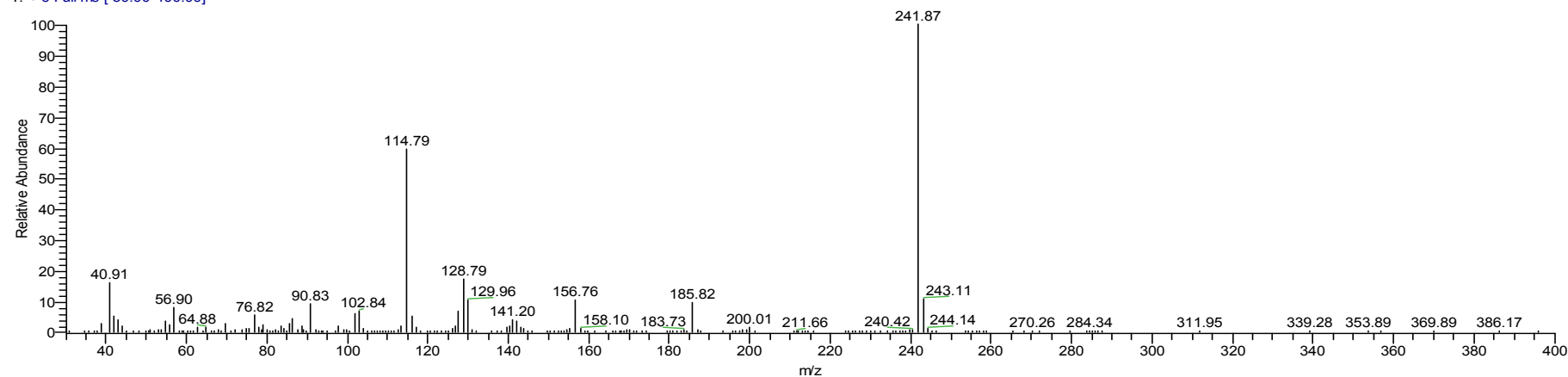
Product 4r – GC-MS Spectrum

RT: 0.00 - 28.84

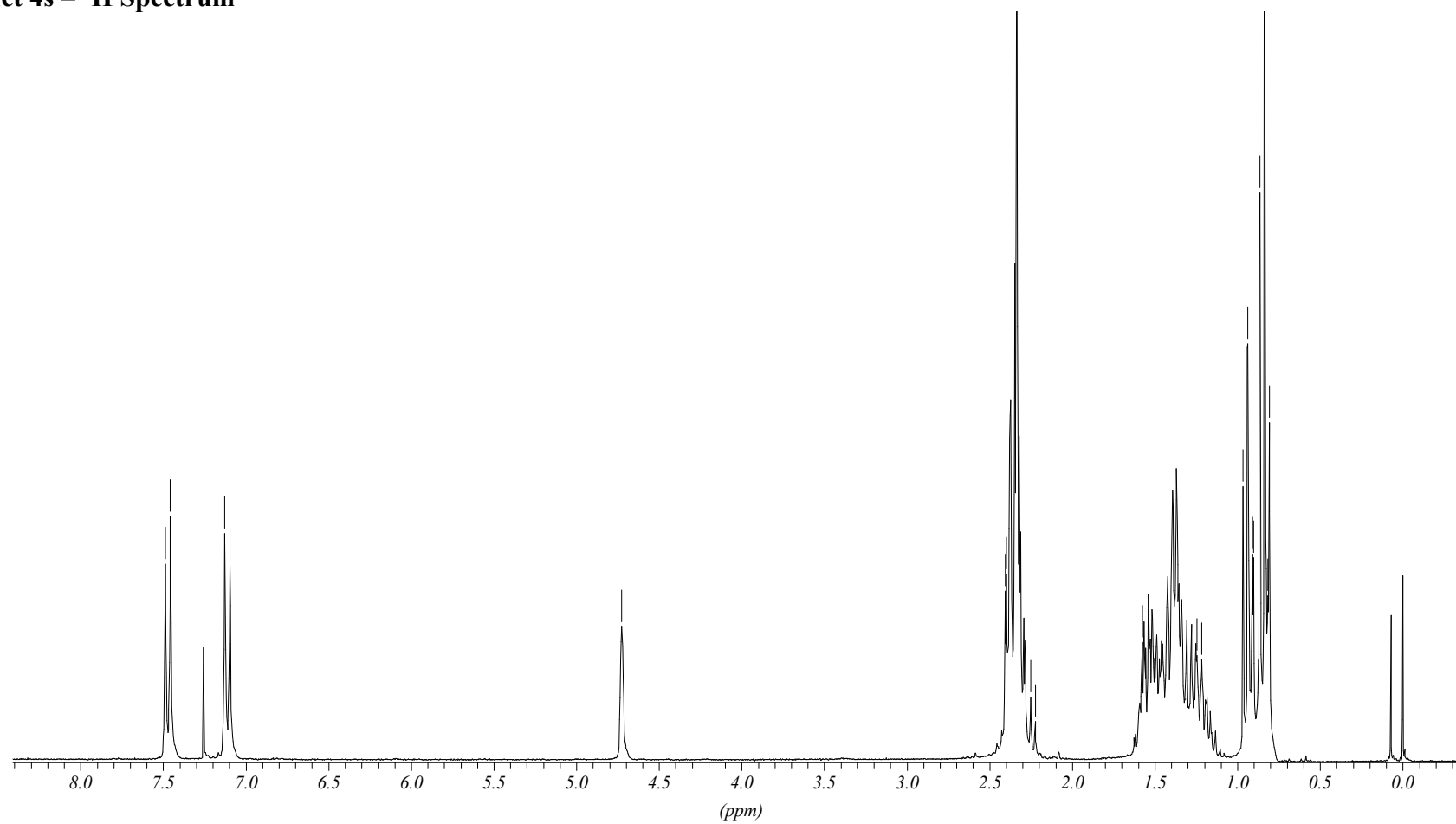


NL:
1.07E8
TIC F: MS
CuA3-7r1

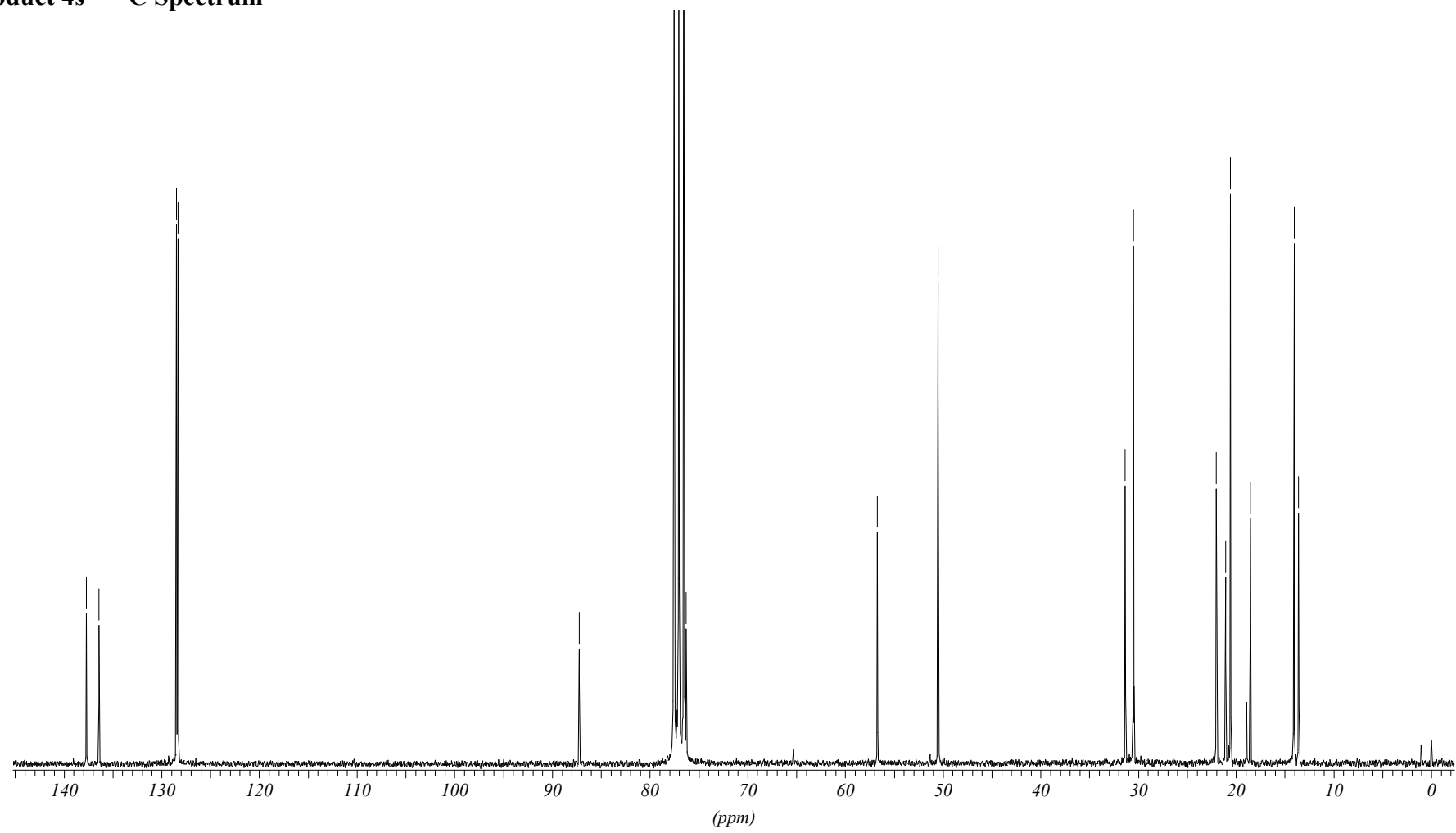
CuA3-7r1 #1004 RT: 15.54 AV: 1 SB: 2 16.64, 24.80 NL: 9.53E6
T: + c Full ms [30.00-400.00]



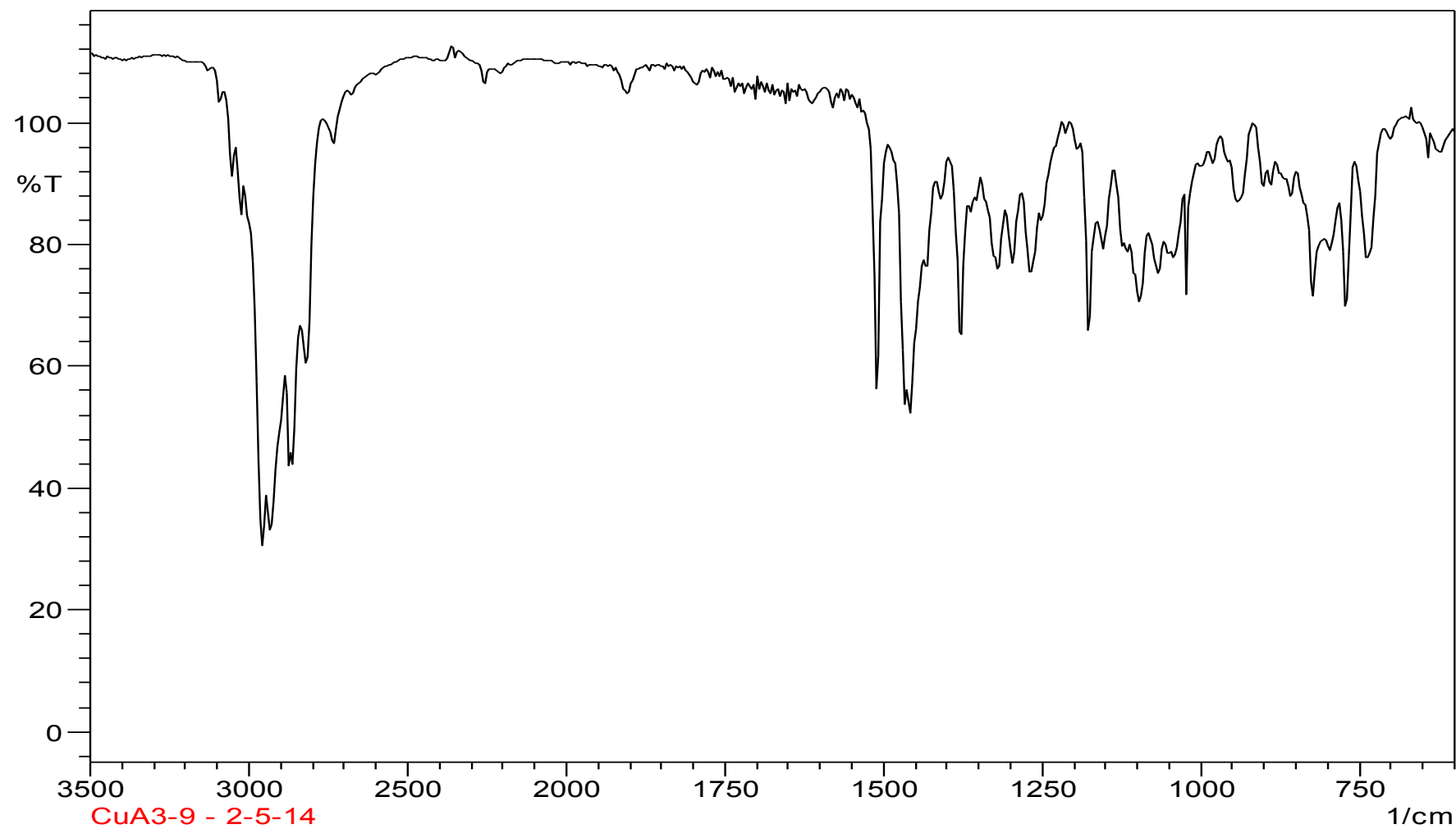
Product 4s – ^1H Spectrum



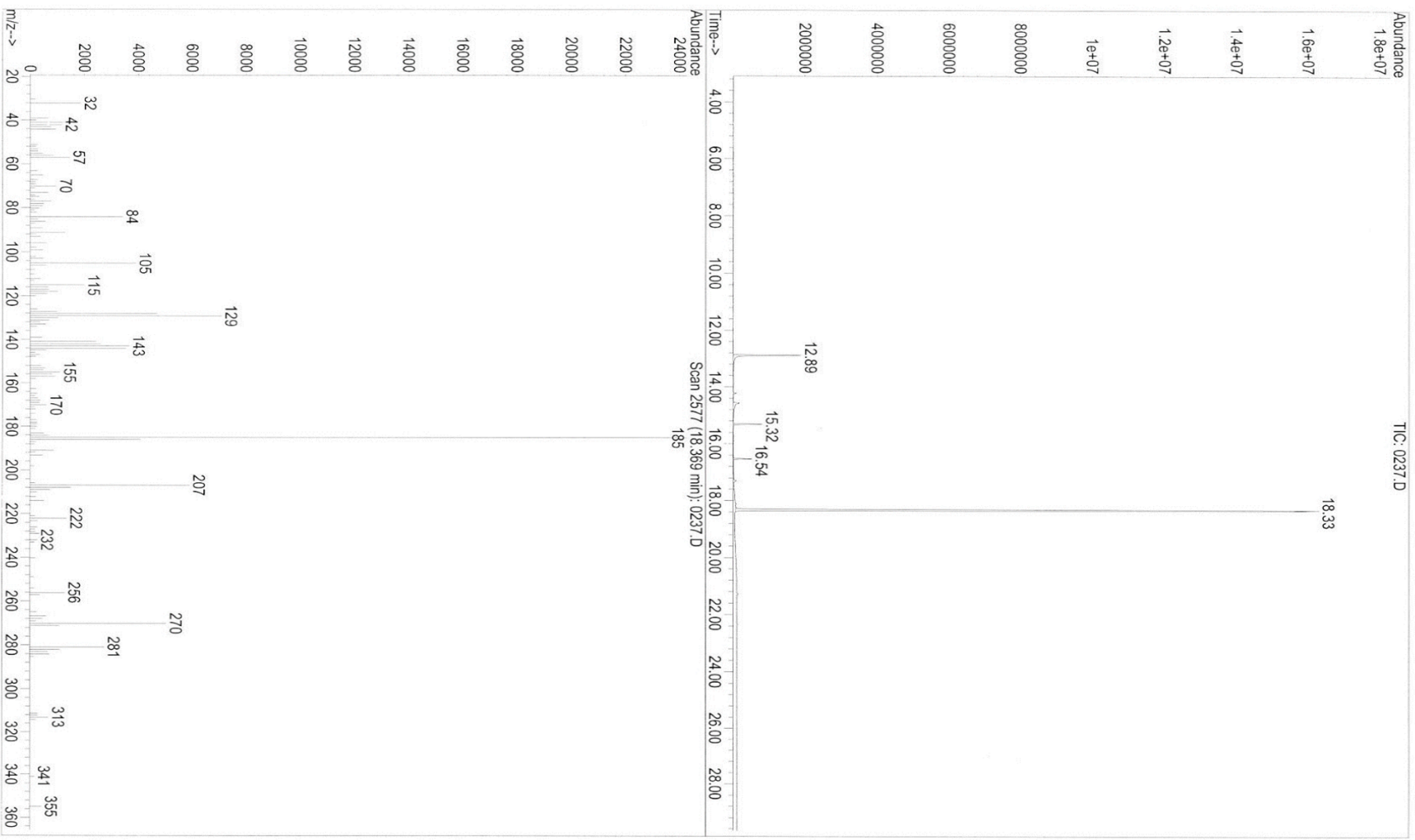
Product 4s – ¹³C Spectrum



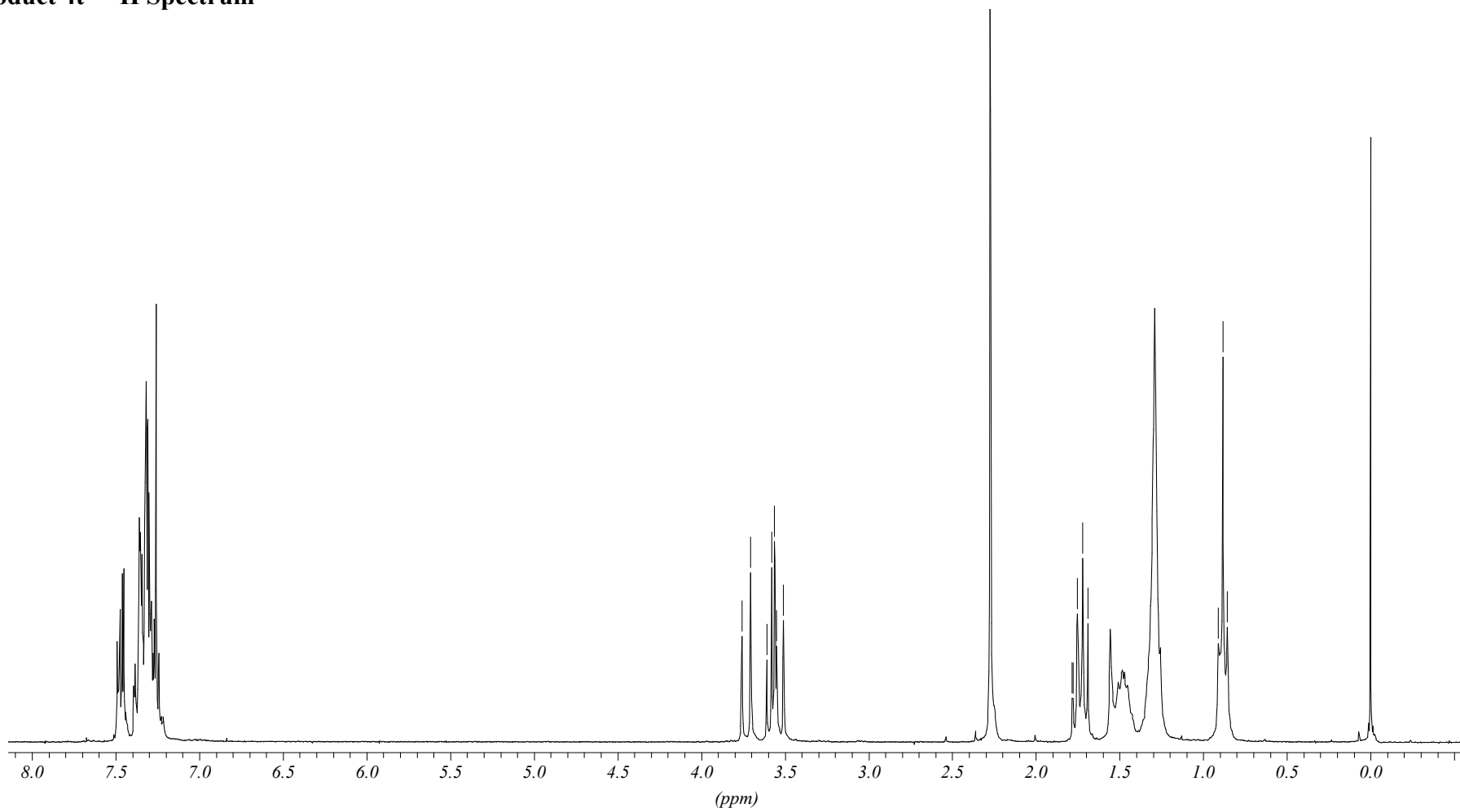
Product 4s – IR Spectrum



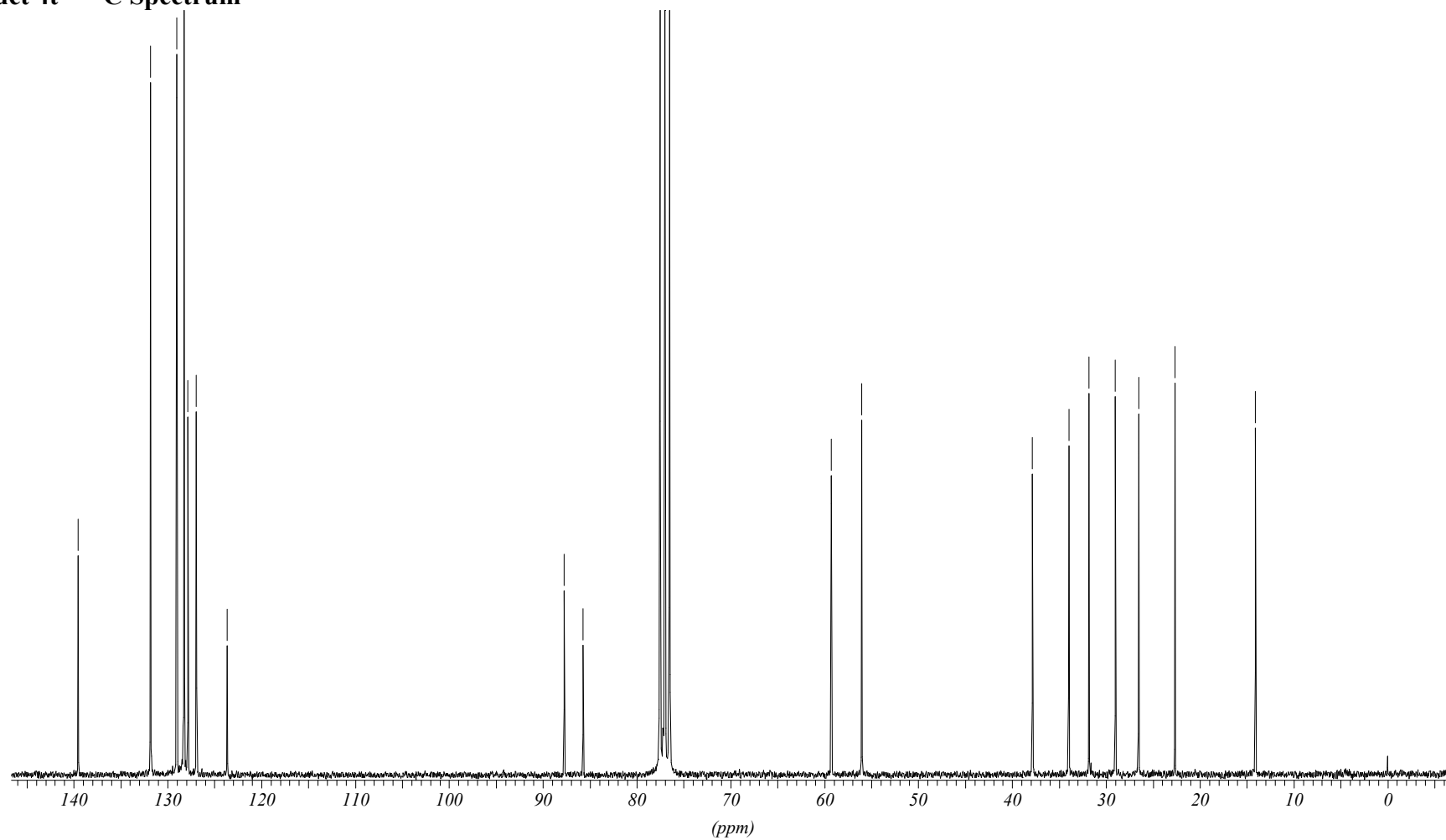
Product 4s – GC-MS Spectrum



Product 4t – ¹H Spectrum



Product 4t – ^{13}C Spectrum



Product 4t – IR Spectrum

