

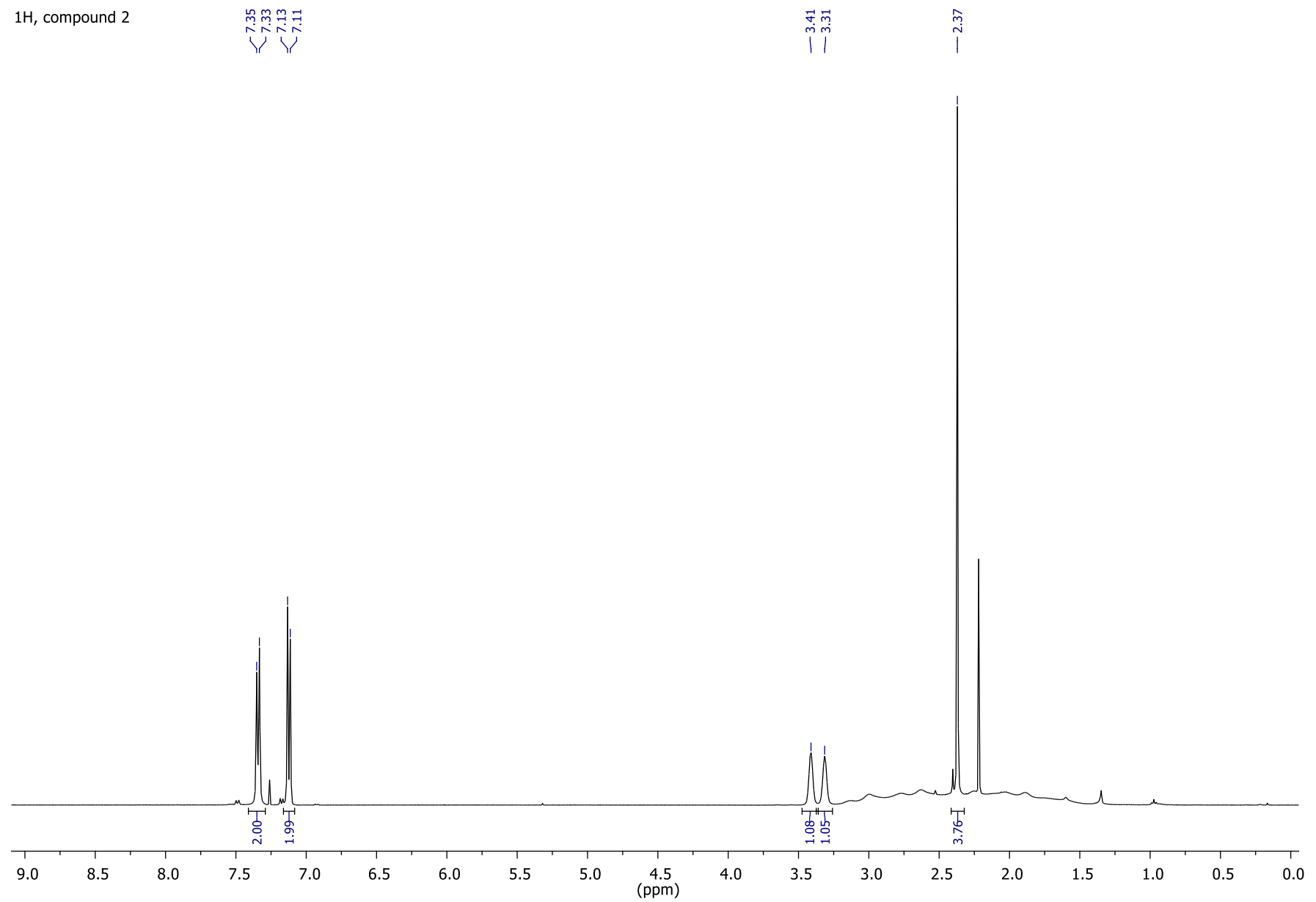
SUPPORTING INFORMATION

One-Pot Synthesis of *B*-Aryl Carboranes with Sensitive Functional Groups Using Sequential Cobalt- and Palladium-Catalyzed Reactions

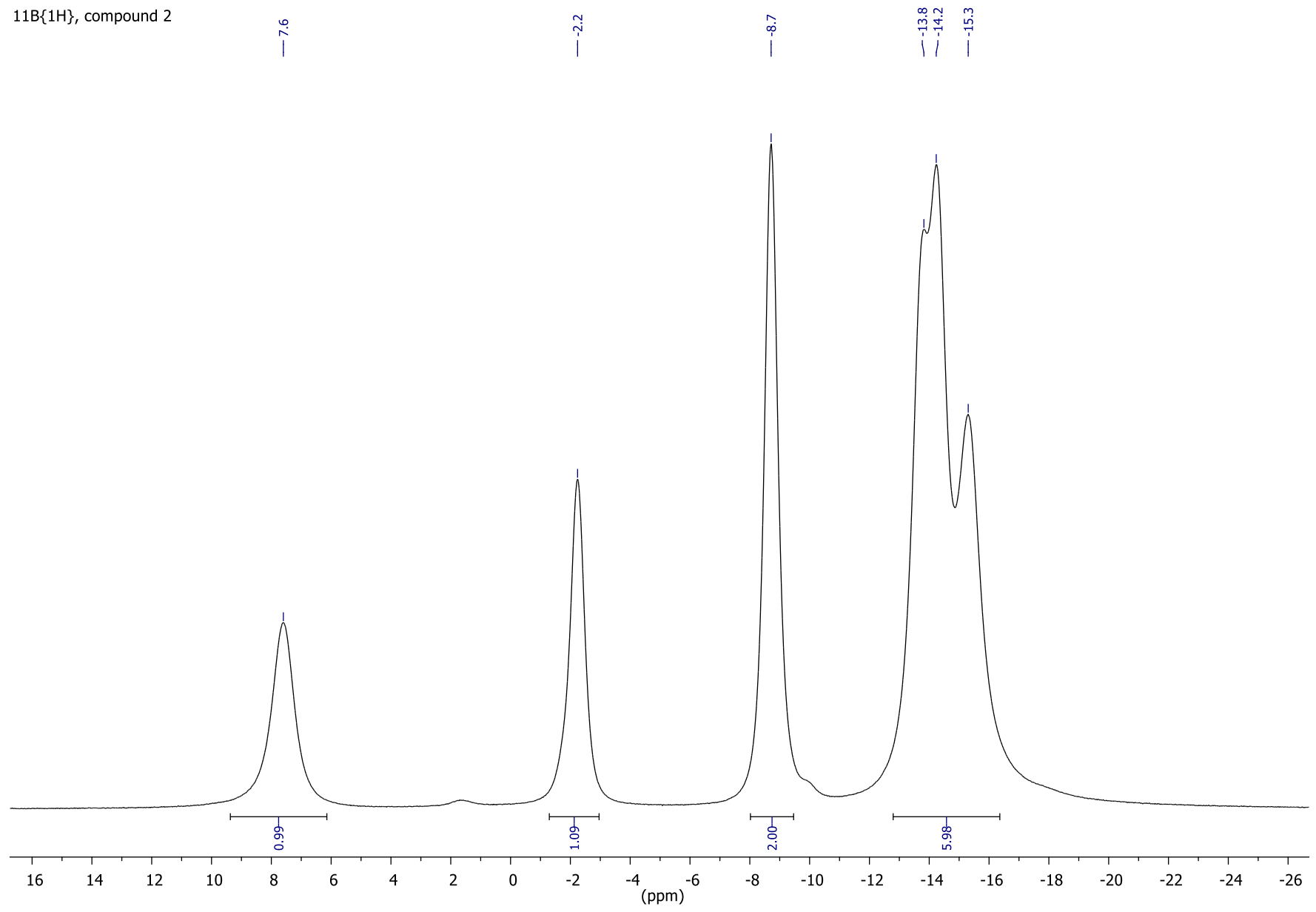
Sergey A. Anufriev, Akim V. Shmal'ko and Igor B. Sivaev*

NMR spectra for 9-(4-Methylphenyl)- <i>ortho</i> -carborane (2)	2
NMR spectra for 9-(4- <i>N,N</i> -Dimethylaminophenyl)- <i>ortho</i> -carborane (3)	8
NMR spectra for 9-(4-Methoxymethoxyphenyl)- <i>ortho</i> -carborane (4)	14
NMR spectra for 9-(2-Methoxyphenyl)- <i>ortho</i> -carborane (5)	20
NMR spectra for 9-(4-Methoxyphenyl)- <i>ortho</i> -carborane (6)	27
NMR spectra for 9-(2-Cyanophenyl)- <i>ortho</i> -carborane (7)	30
NMR spectra for 9-(4-Cyanophenyl)- <i>ortho</i> -carborane (8)	35
NMR spectra for 9-(2-Ethoxycarbonylphenyl)- <i>ortho</i> -carborane (9)	39
NMR spectra for 9-(3-Ethoxycarbonylphenyl)- <i>ortho</i> -carborane (10)	45
NMR spectra for 9-(4-Ethoxycarbonylphenyl)- <i>ortho</i> -carborane (11)	51
NMR spectra for 9,12-(phenyl) ₂ - <i>ortho</i> -carborane (13)	57
NMR spectra for 9,12-(4-Methylphenyl) ₂ - <i>ortho</i> -carborane (14)	60

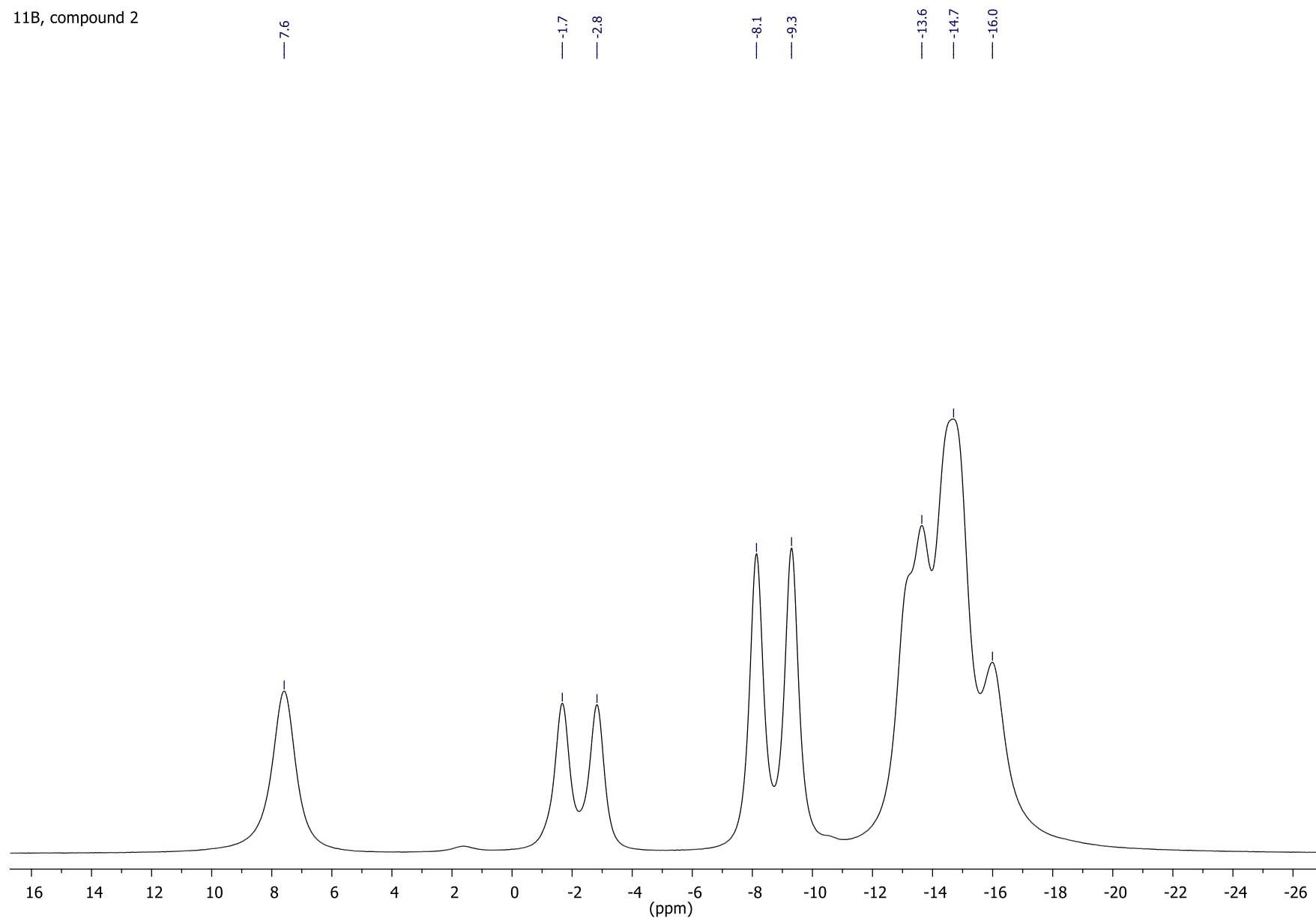
1H, compound 2



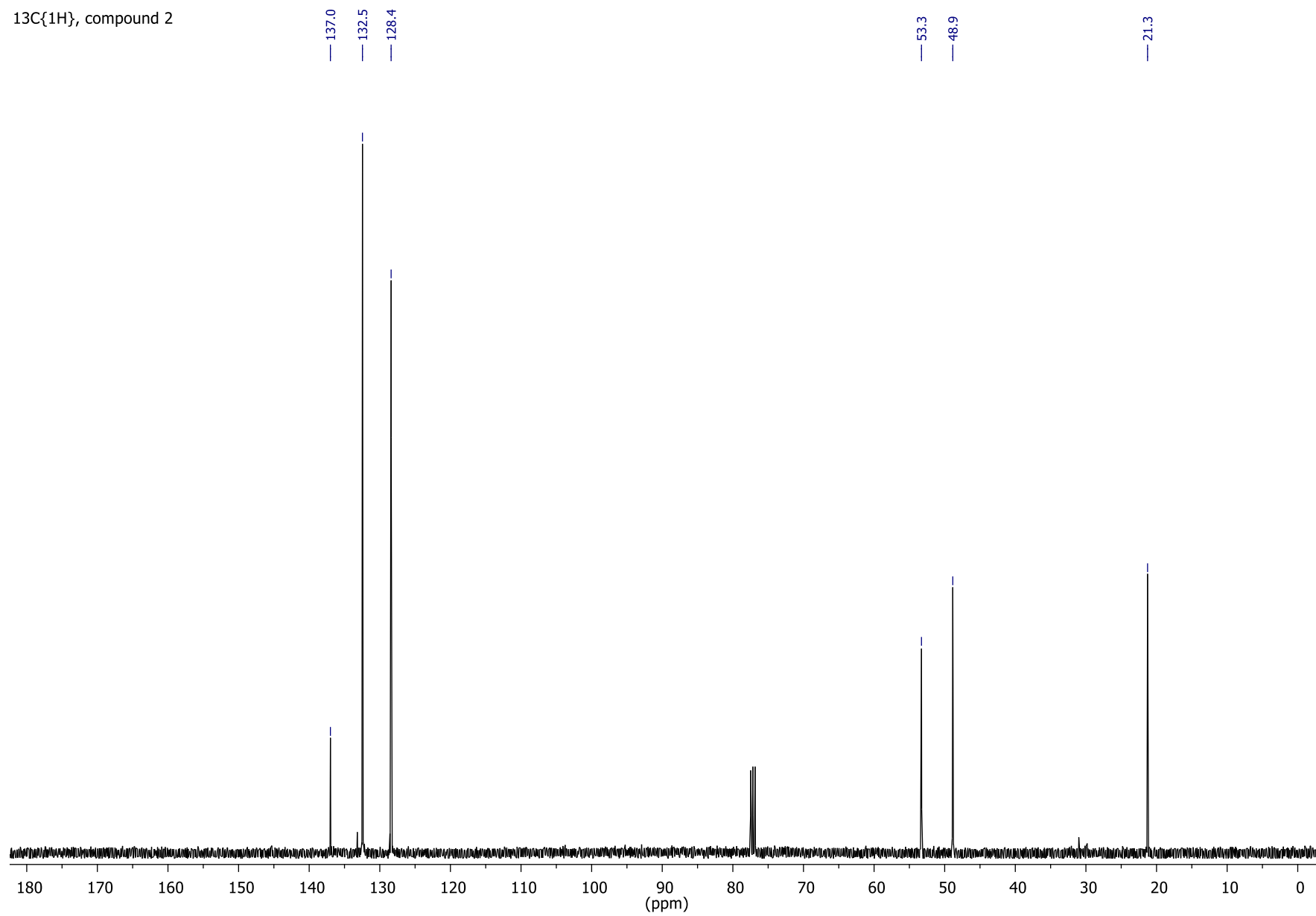
$^{11}\text{B}\{^1\text{H}\}$, compound 2

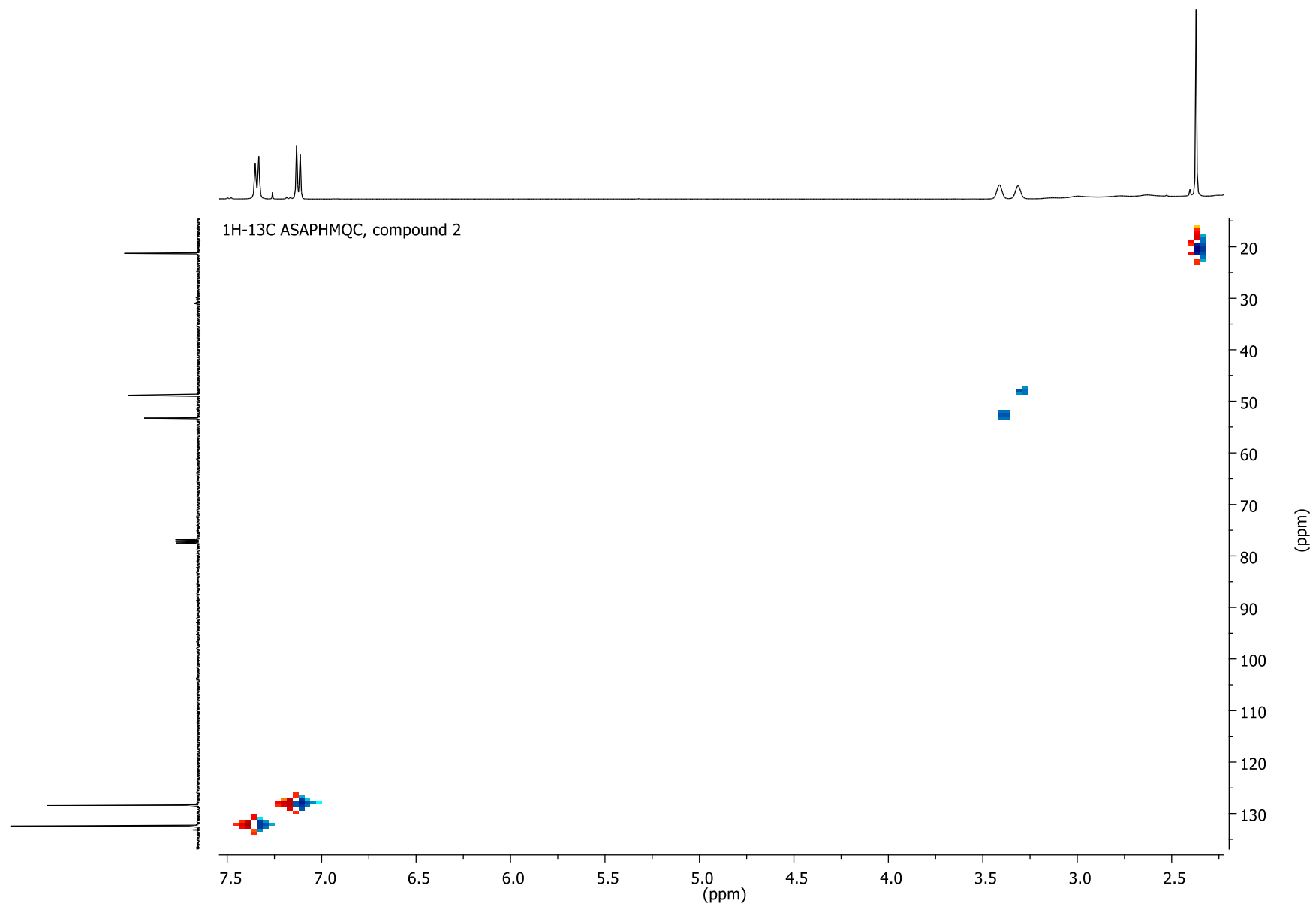


11B, compound 2



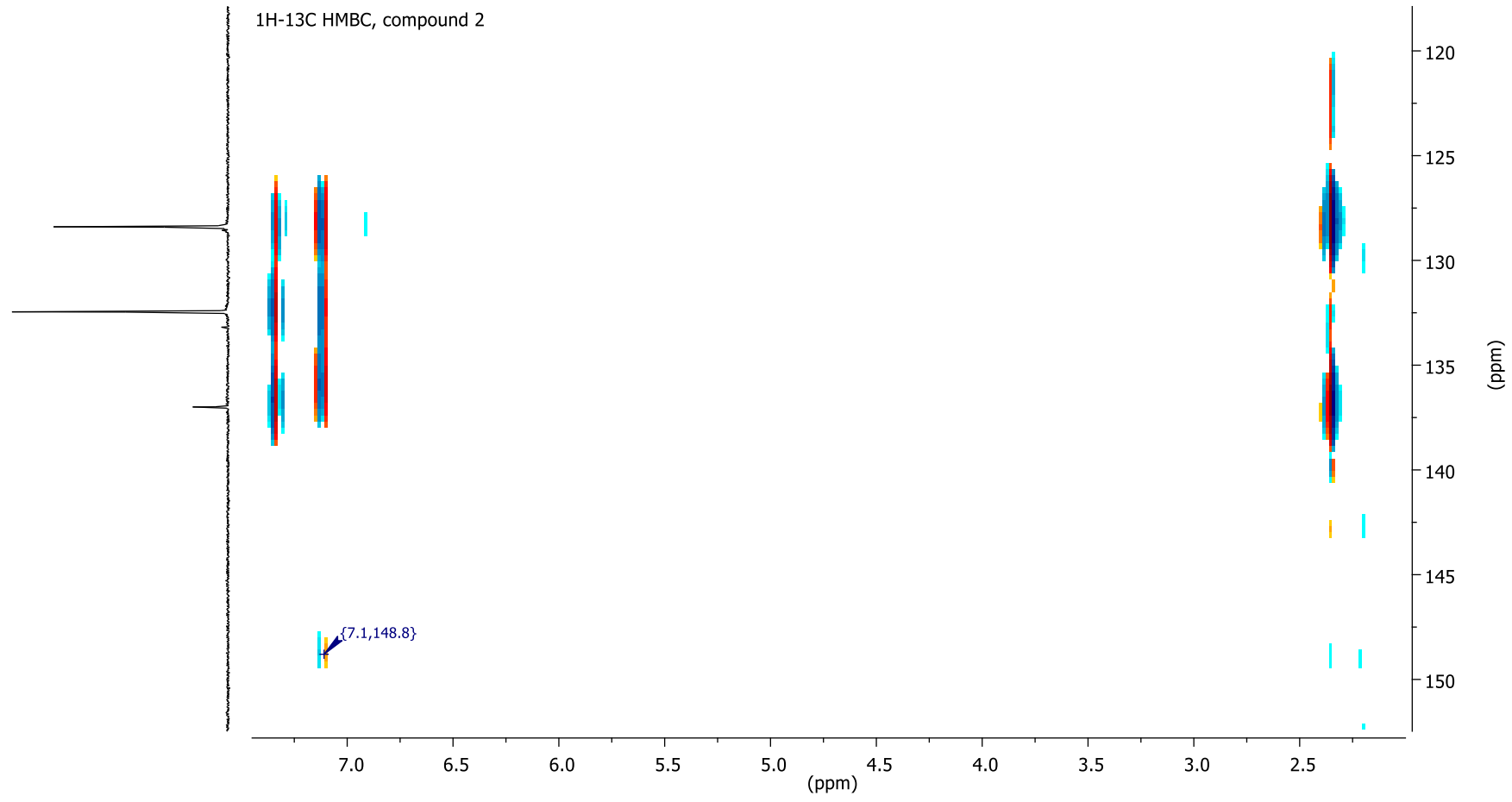
$^{13}\text{C}\{^1\text{H}\}$, compound 2



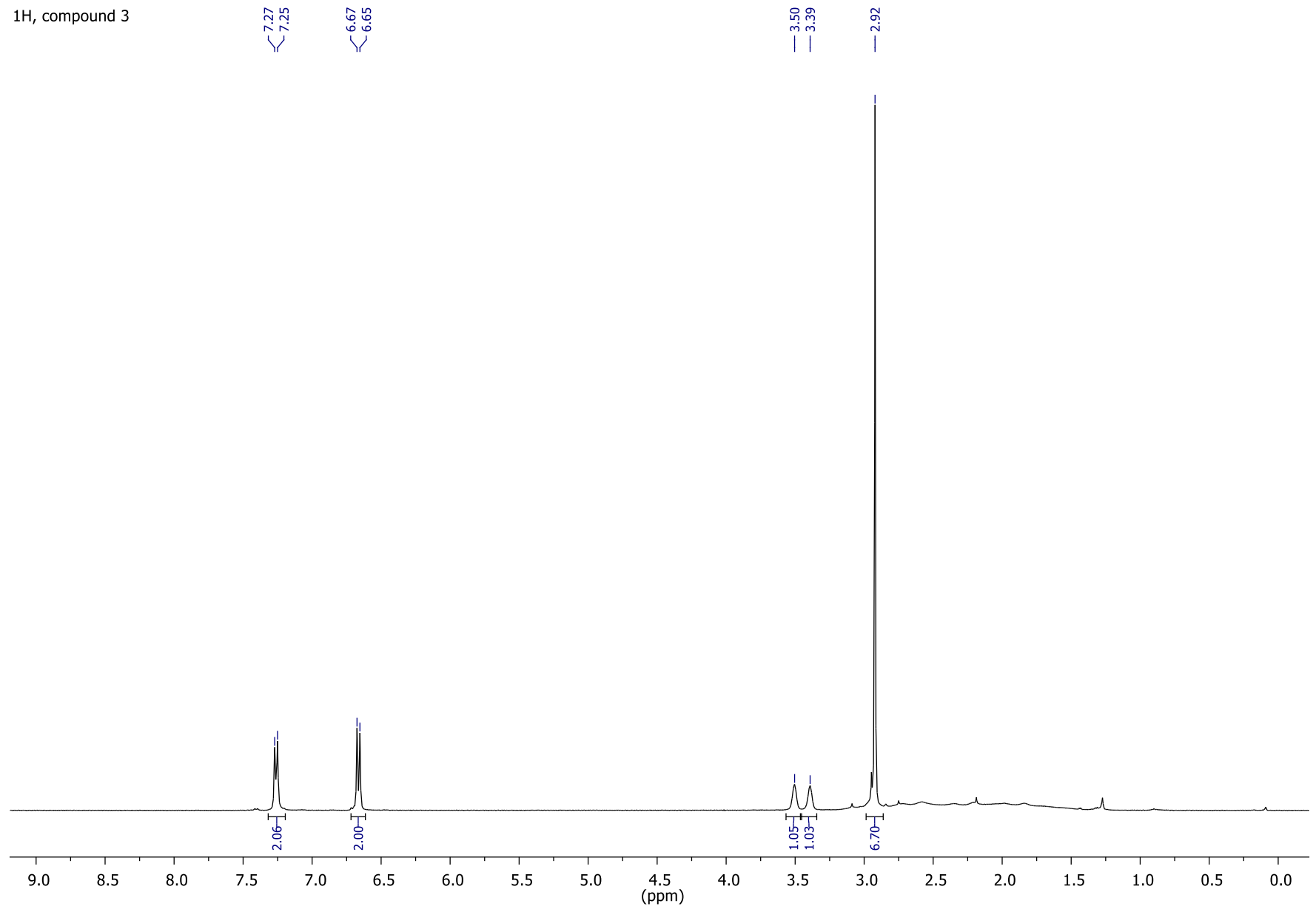




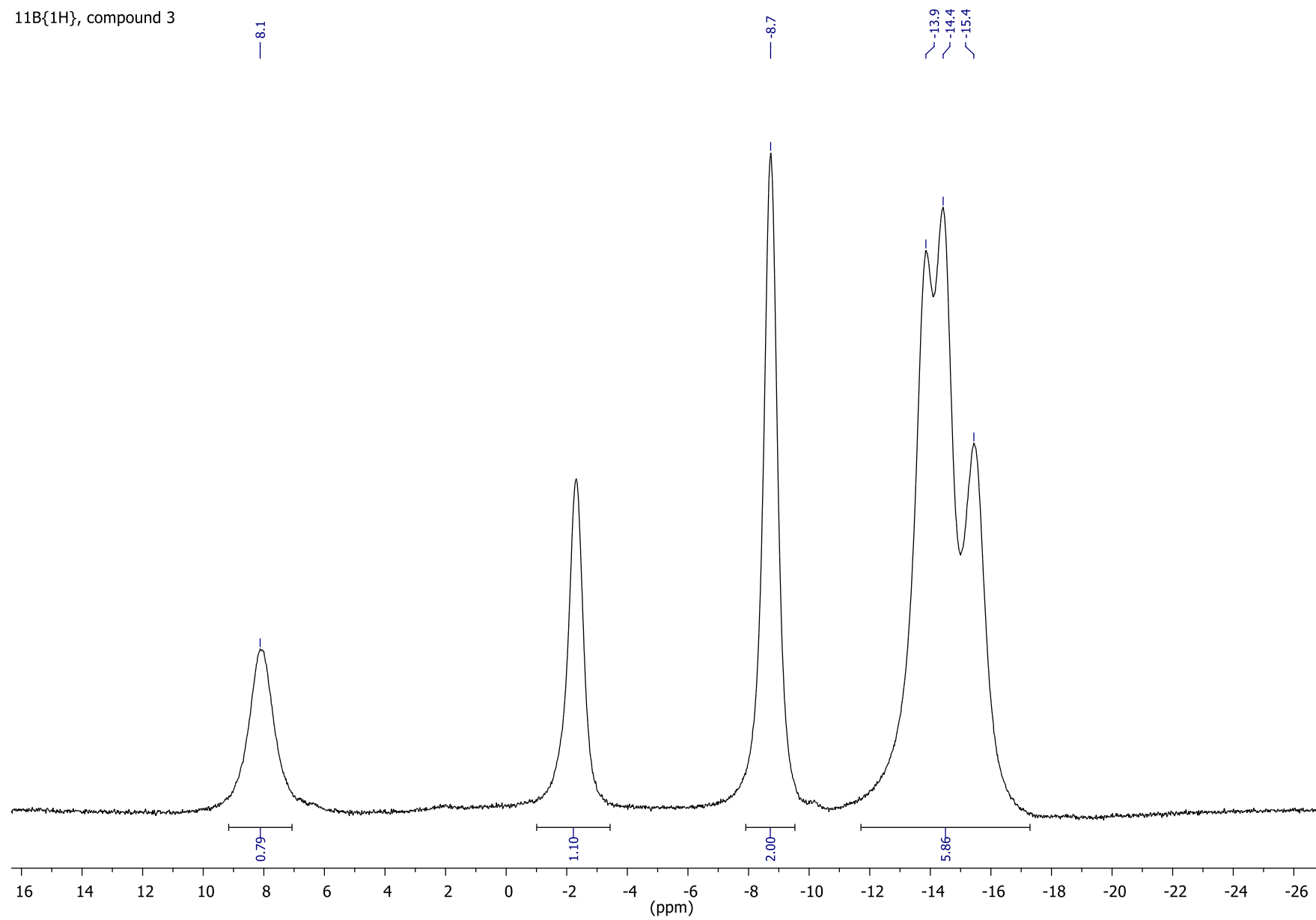
1H-13C HMBC, compound 2



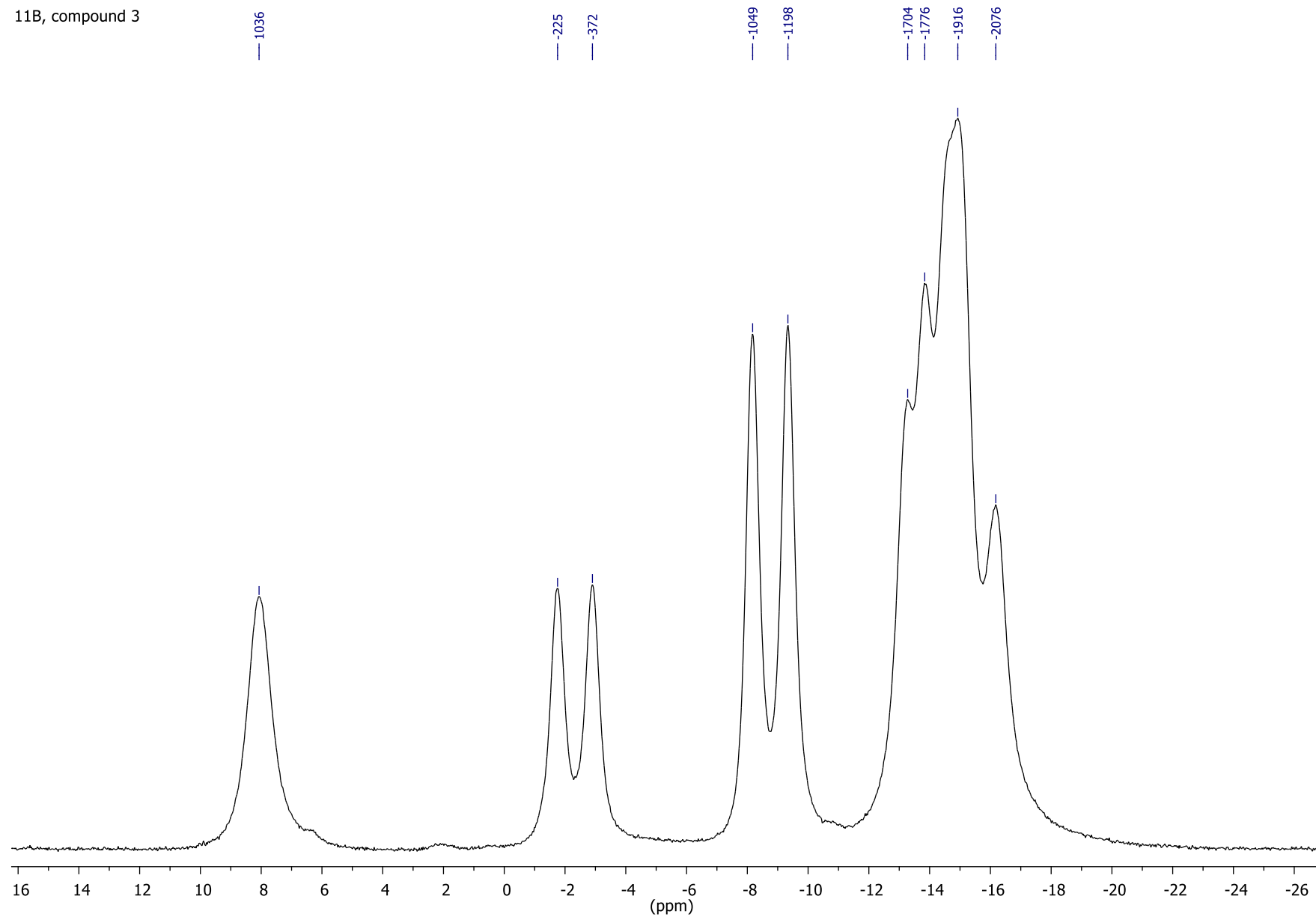
¹H, compound 3



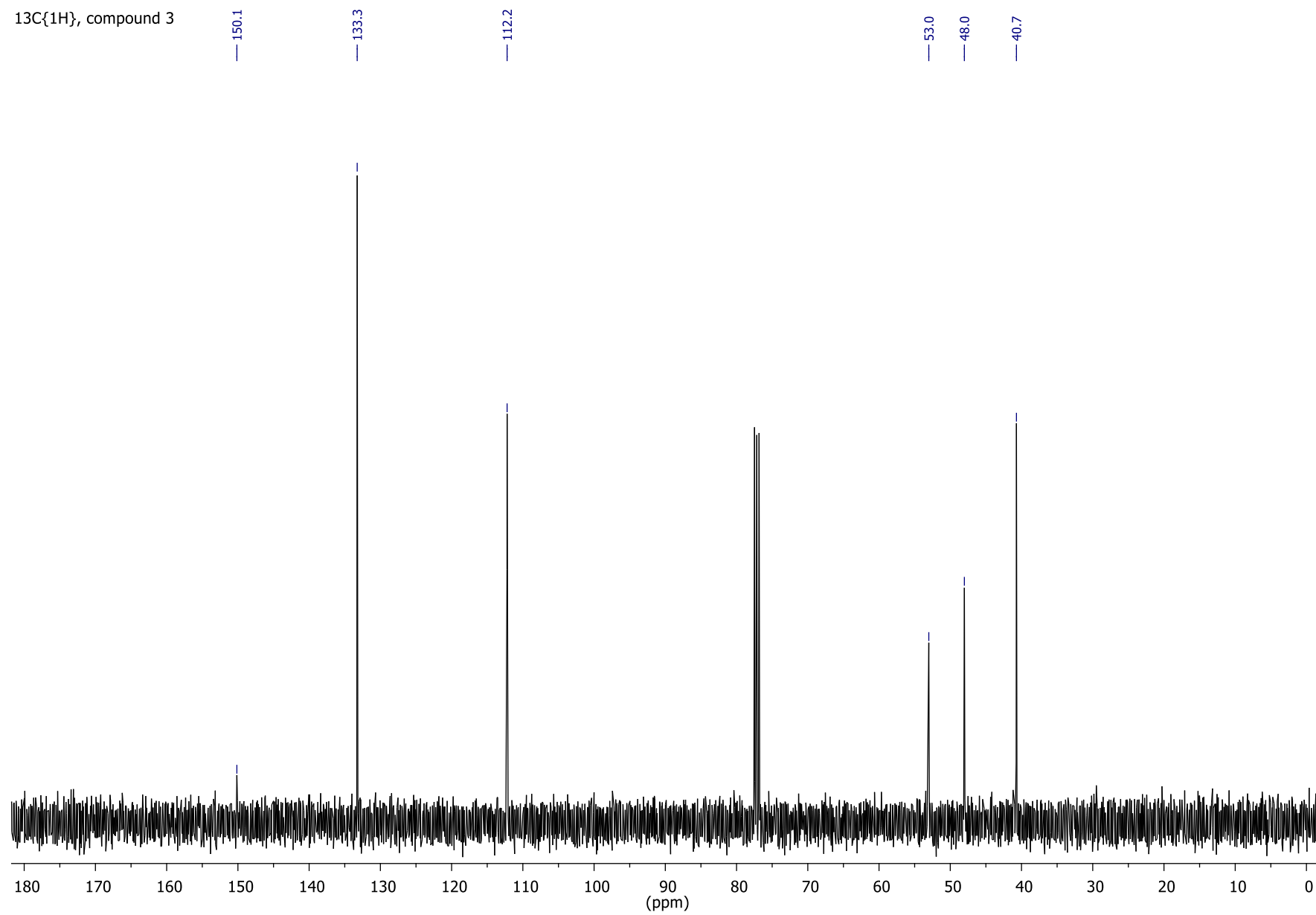
$^{11}\text{B}\{^1\text{H}\}$, compound 3

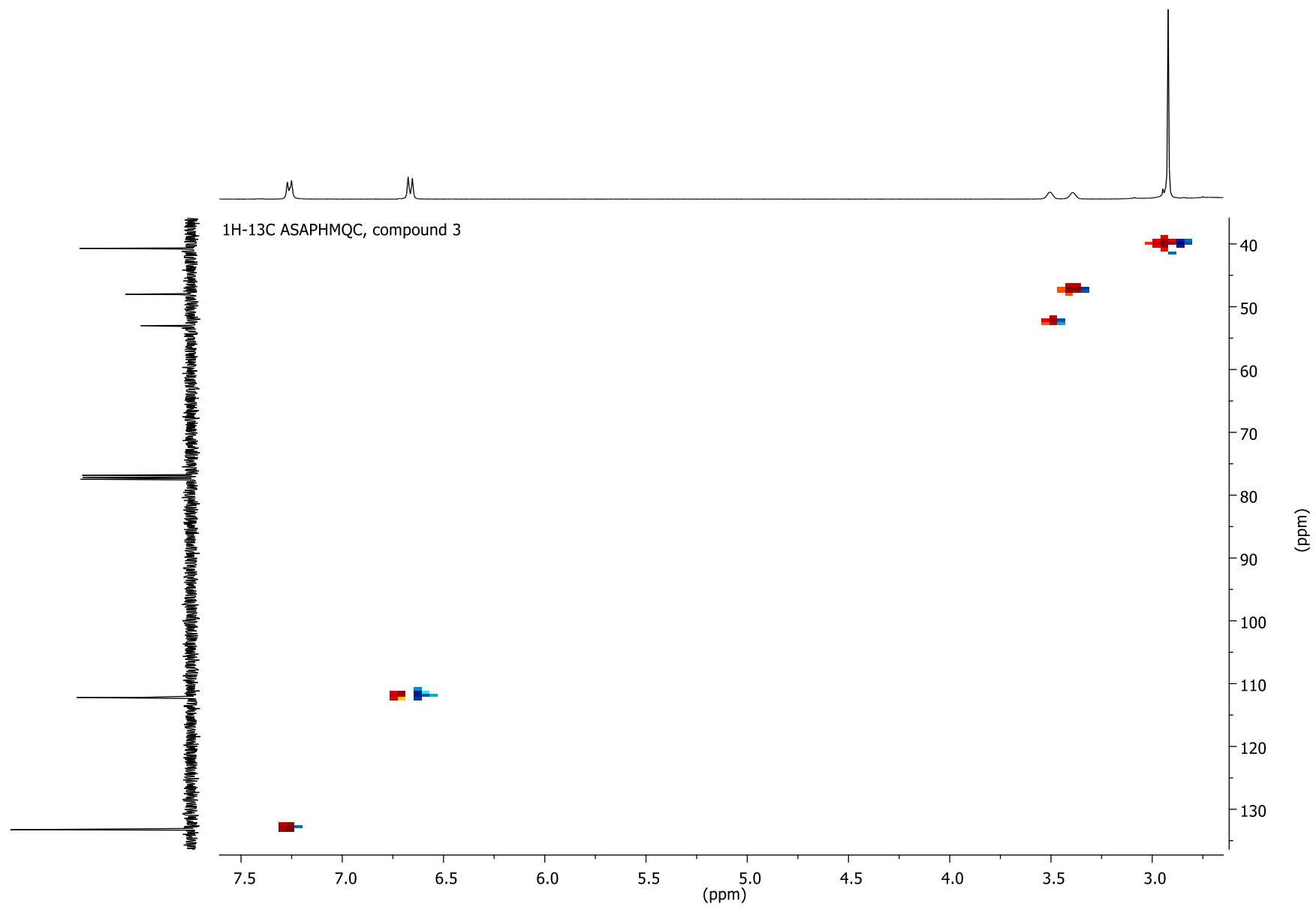


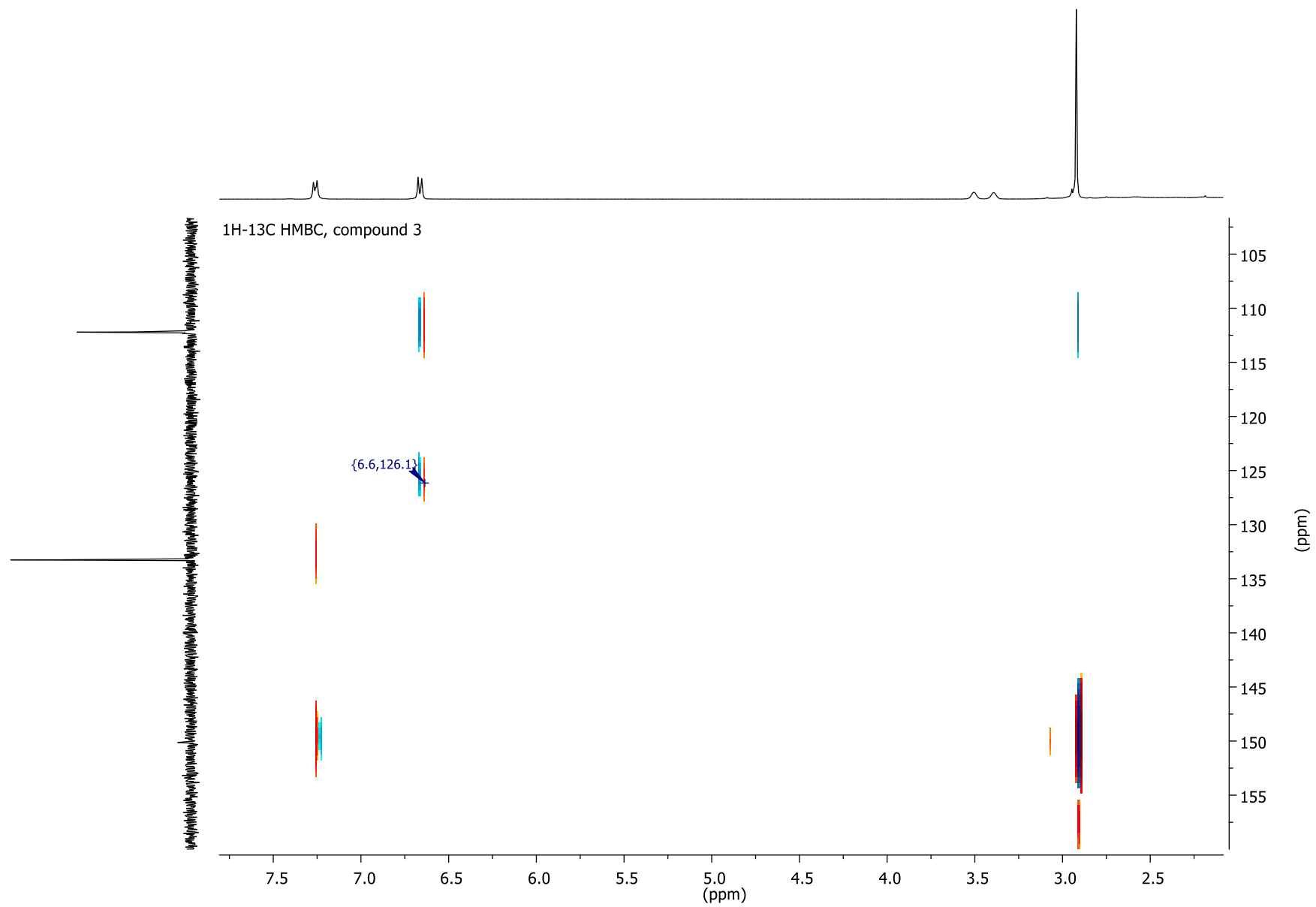
11B, compound 3



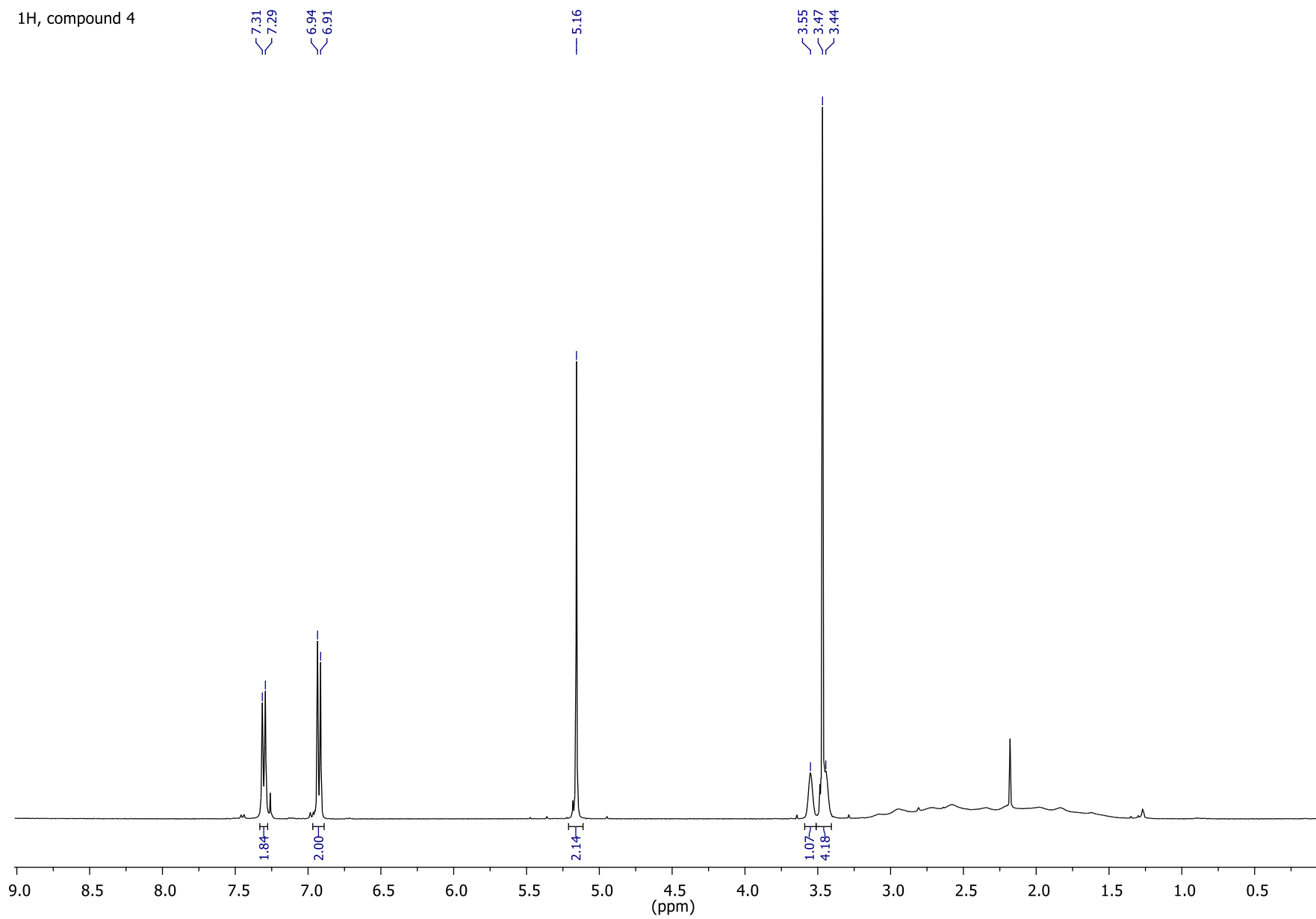
$^{13}\text{C}\{^1\text{H}\}$, compound 3



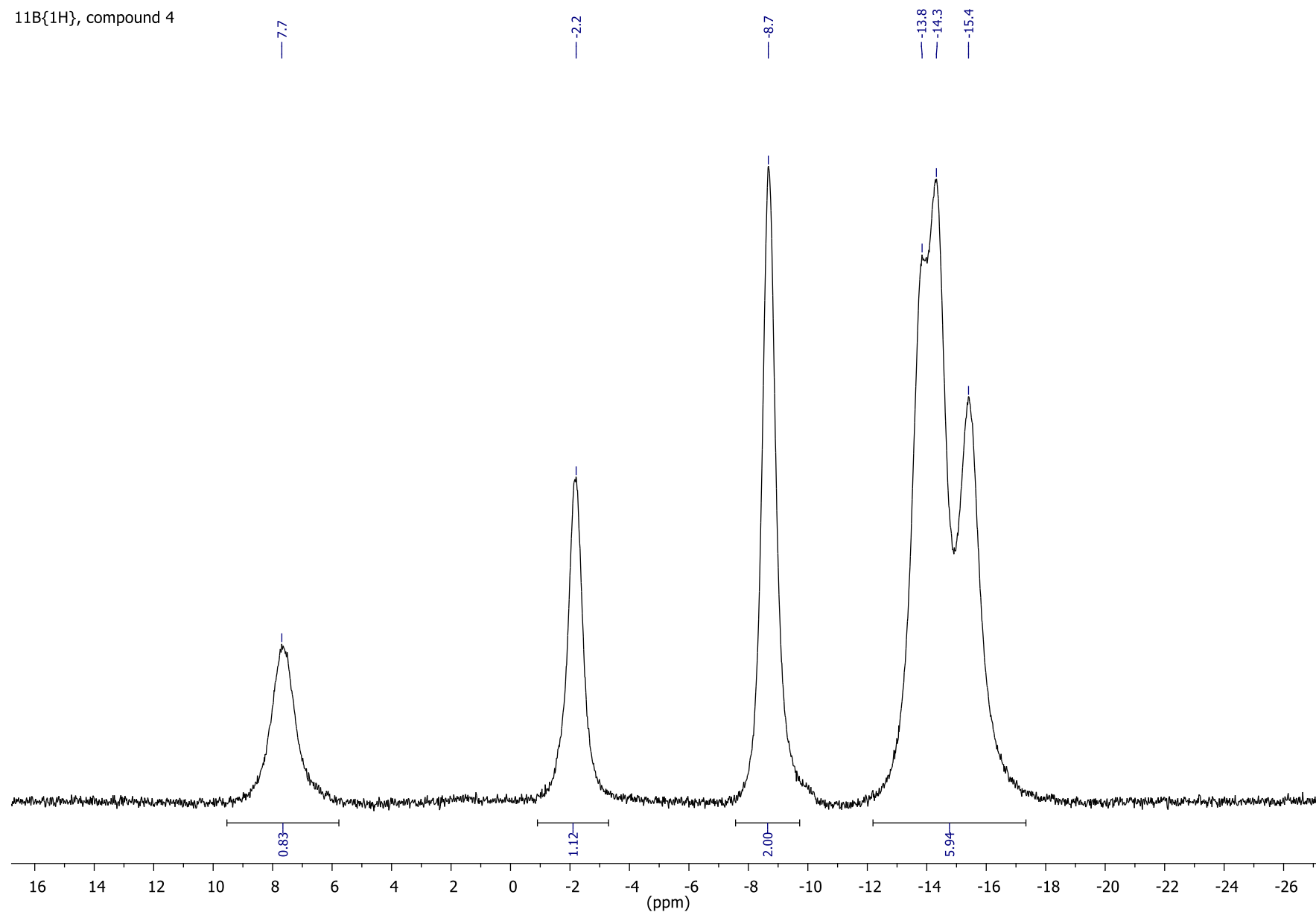




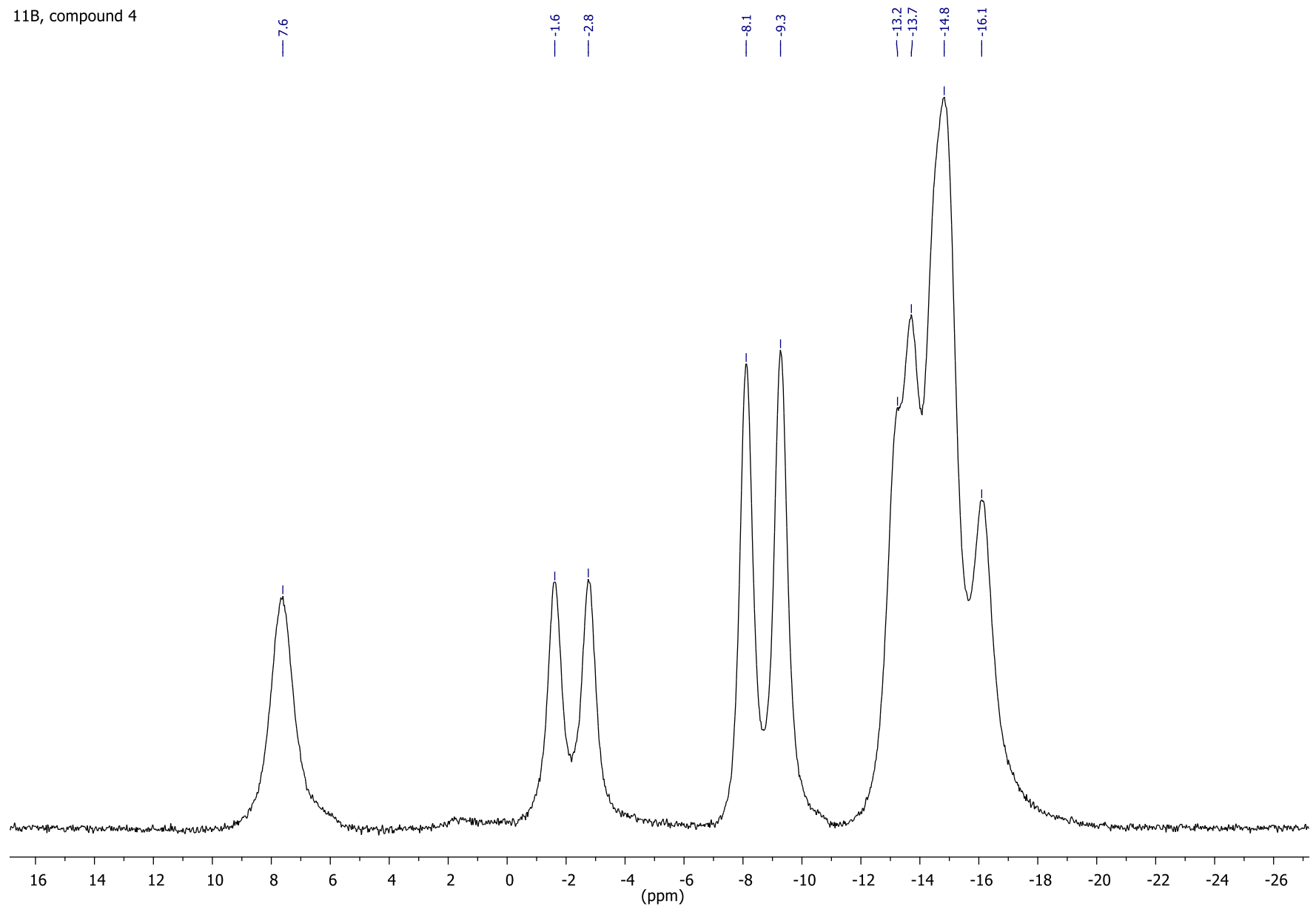
¹H, compound 4



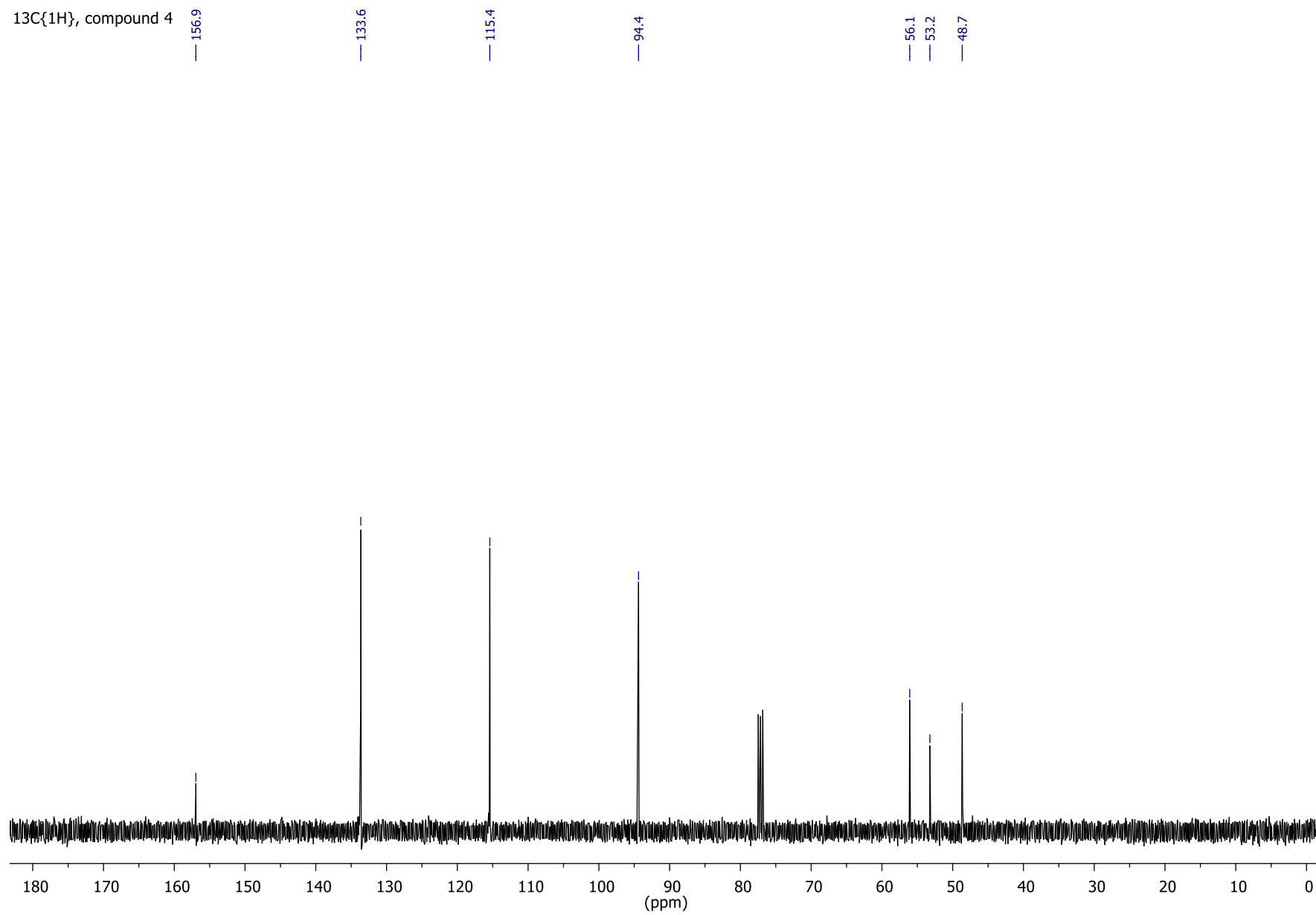
$^{11}\text{B}\{^1\text{H}\}$, compound 4

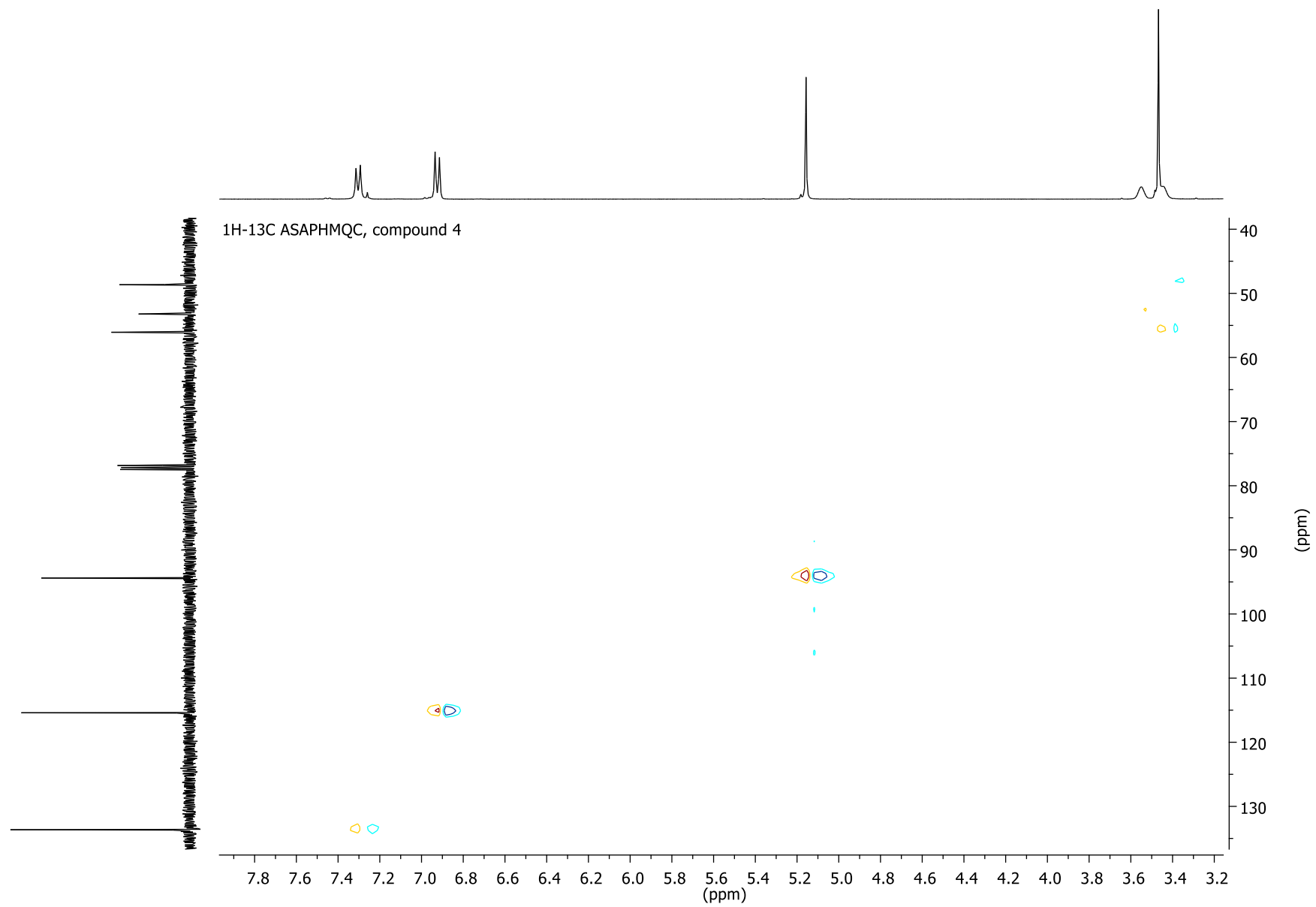


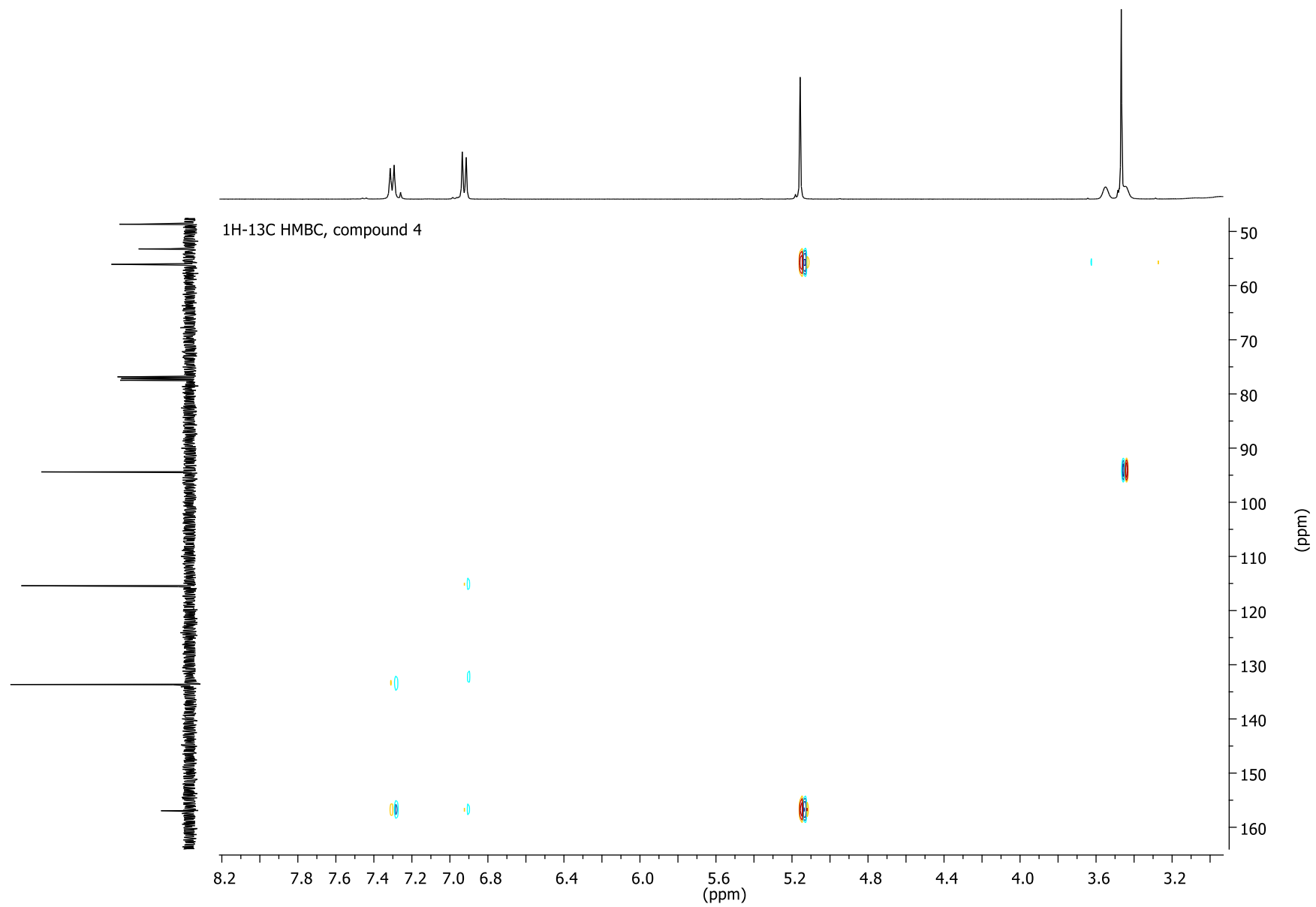
11B, compound 4



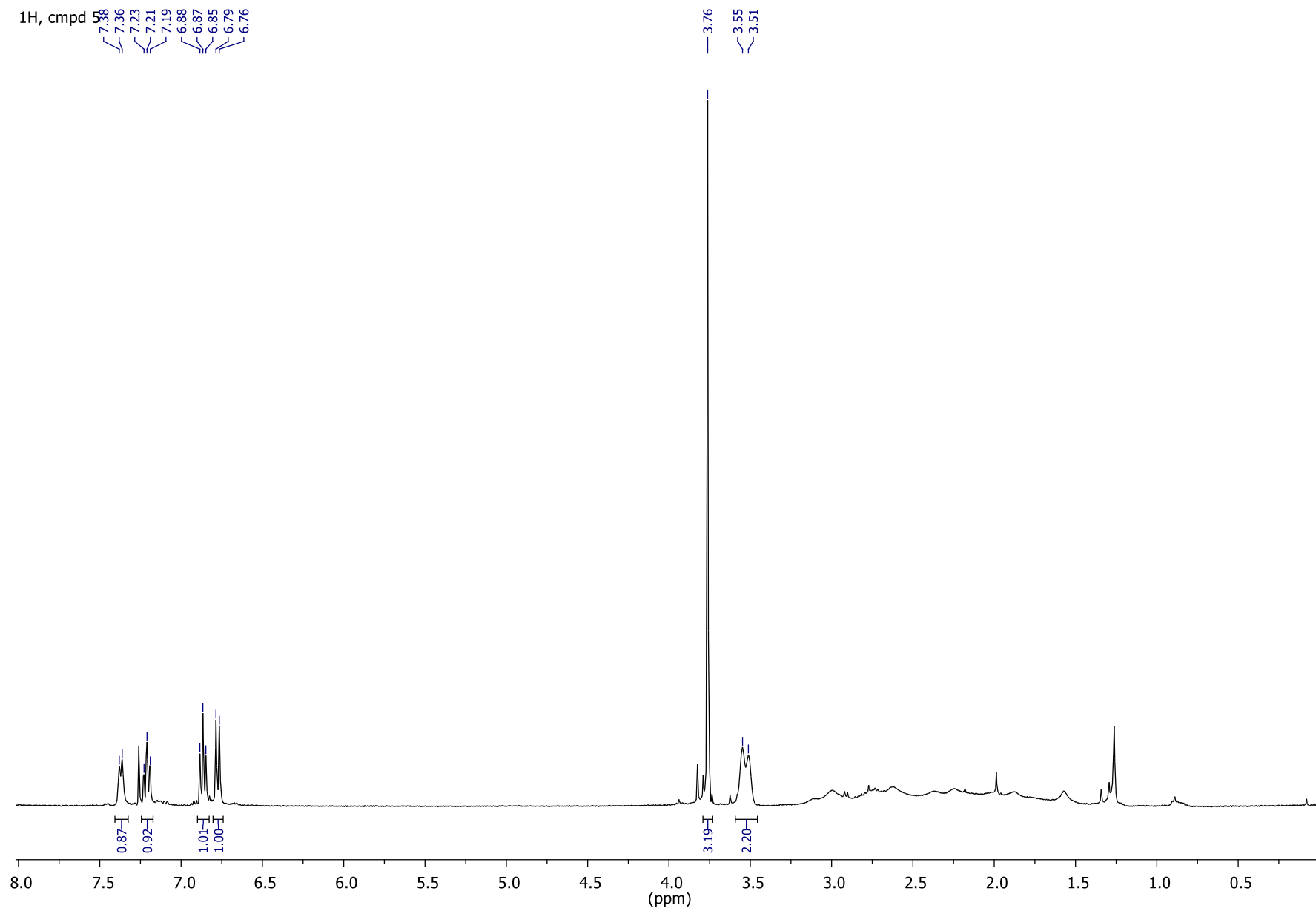
$^{13}\text{C}\{^1\text{H}\}$, compound 4



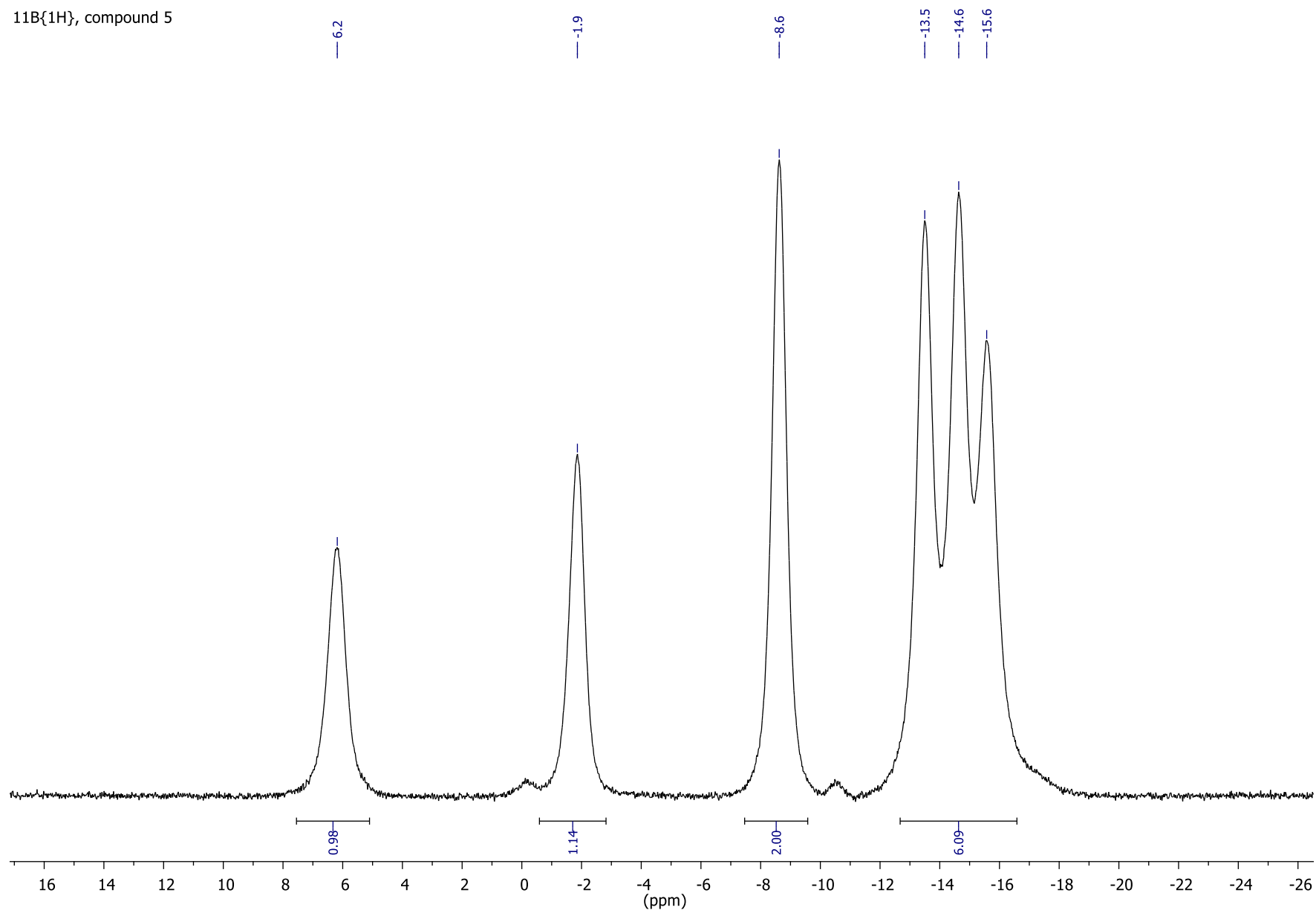




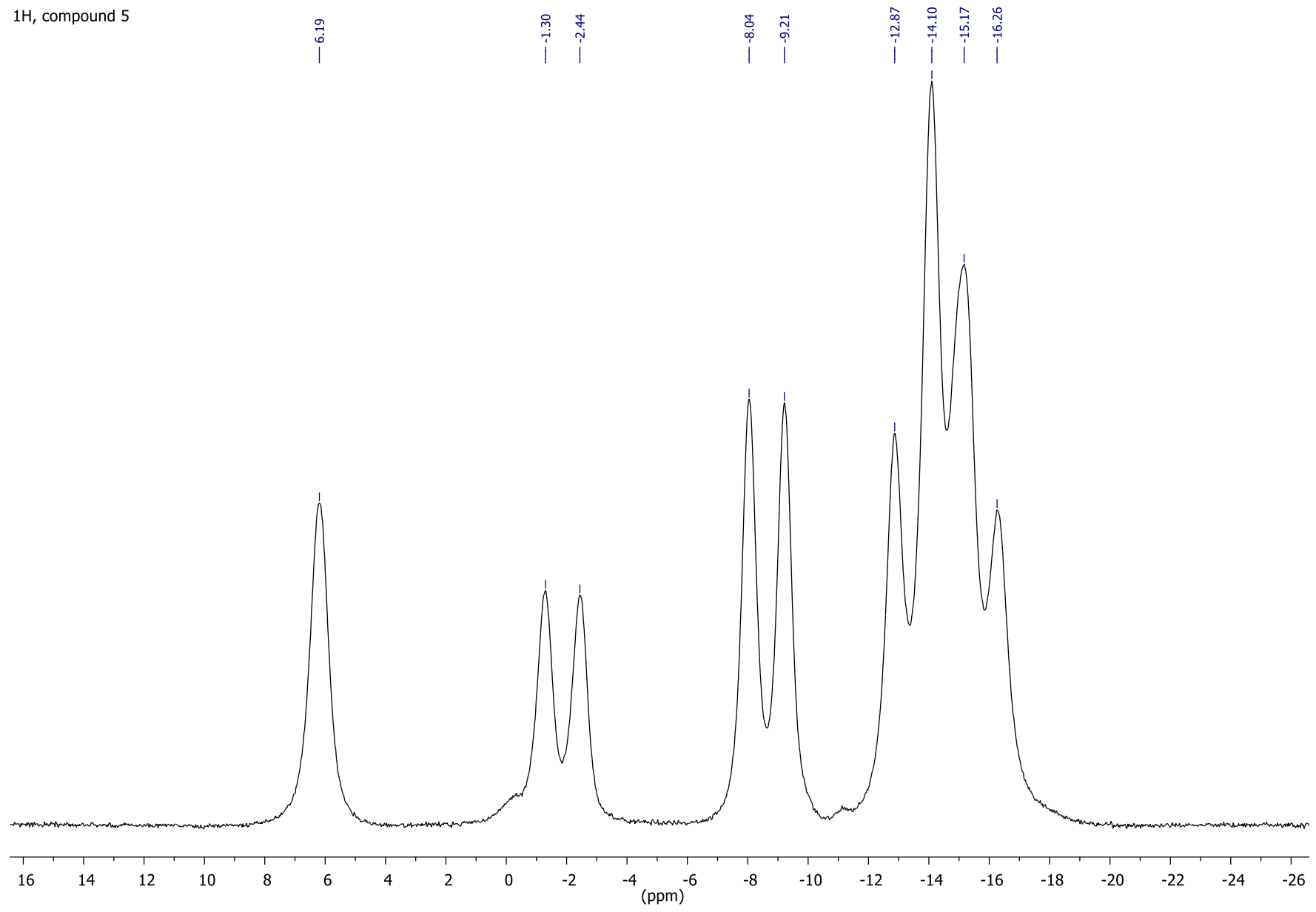
1H, compd 5



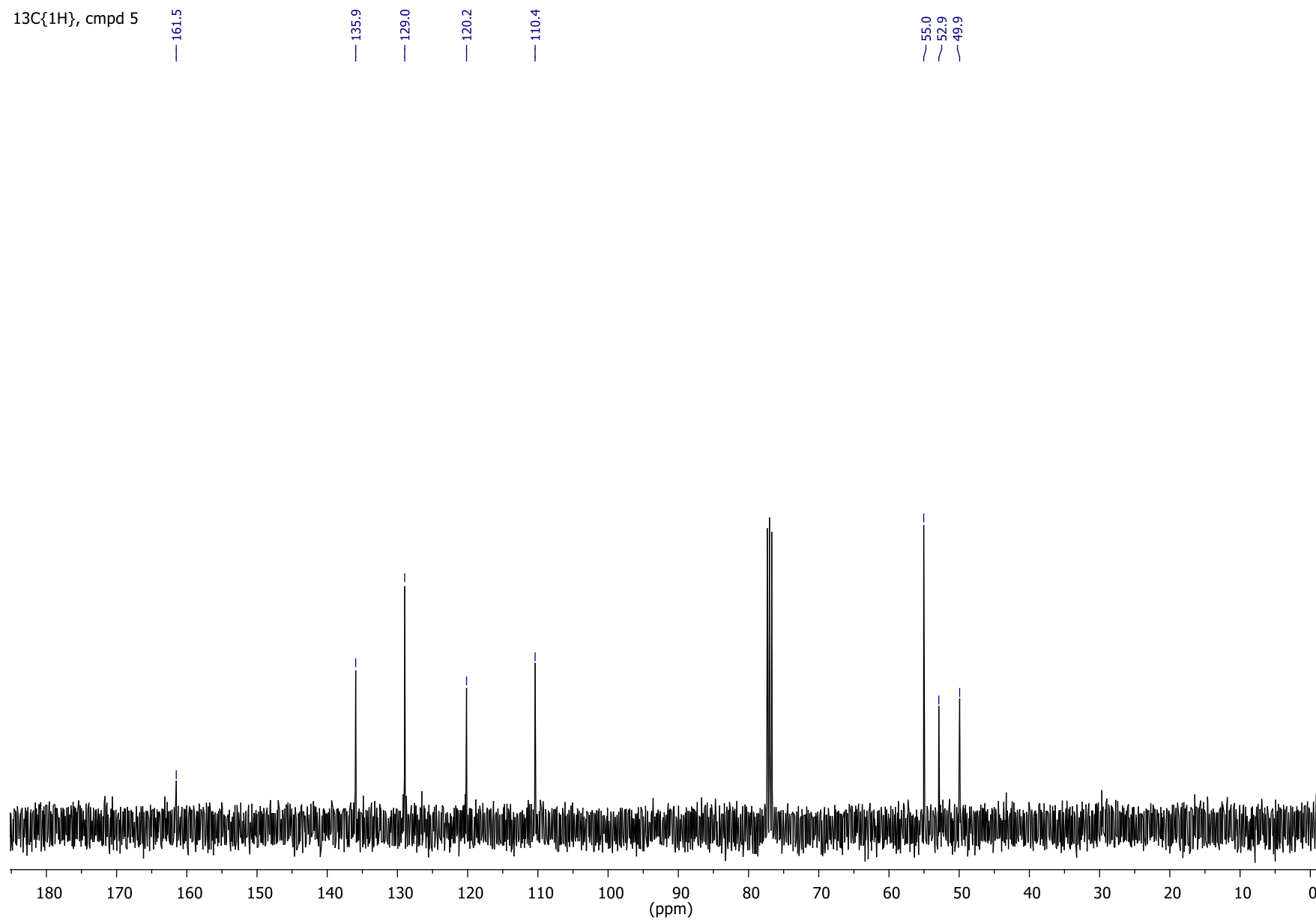
$^{11}\text{B}\{^1\text{H}\}$, compound 5

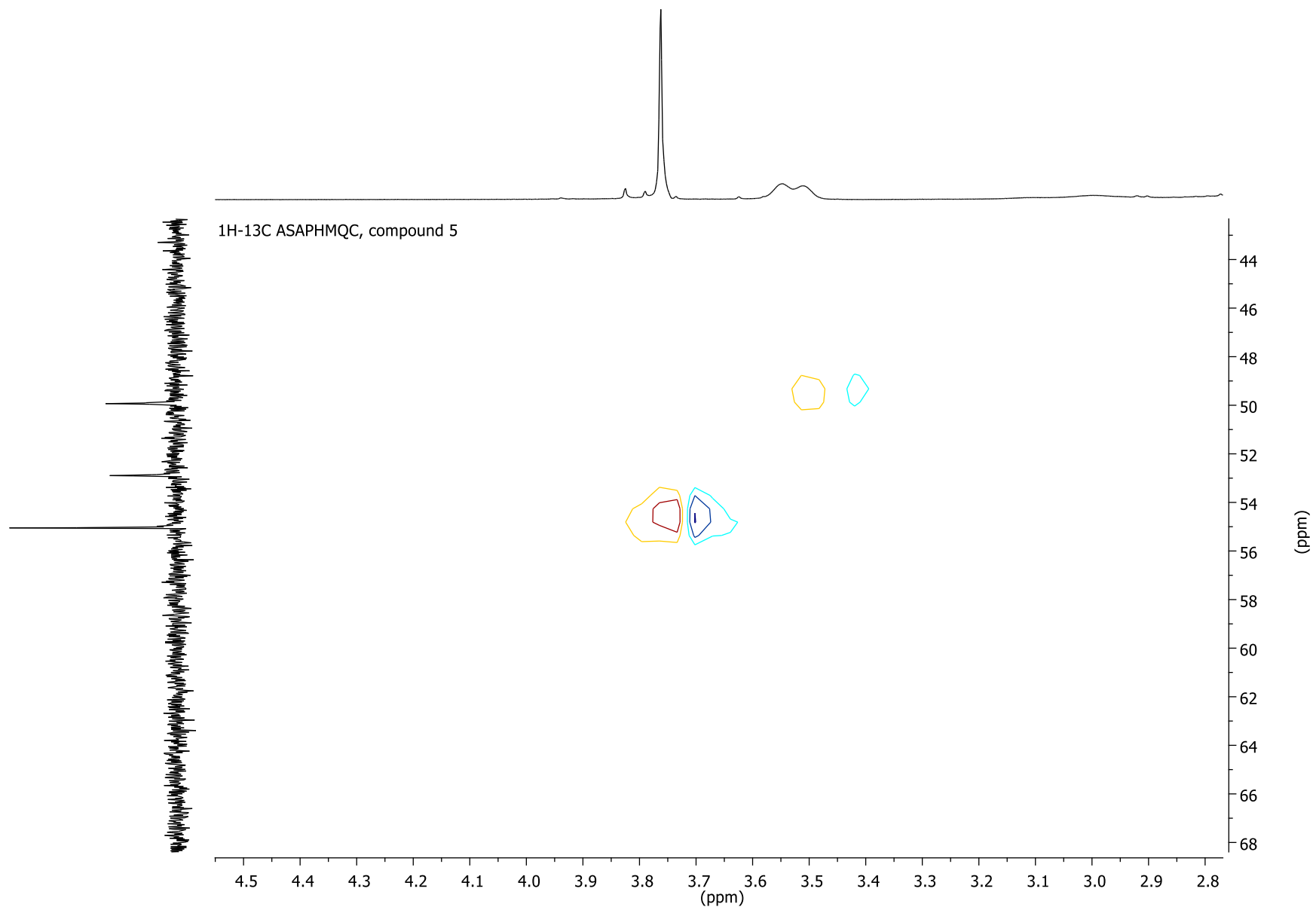


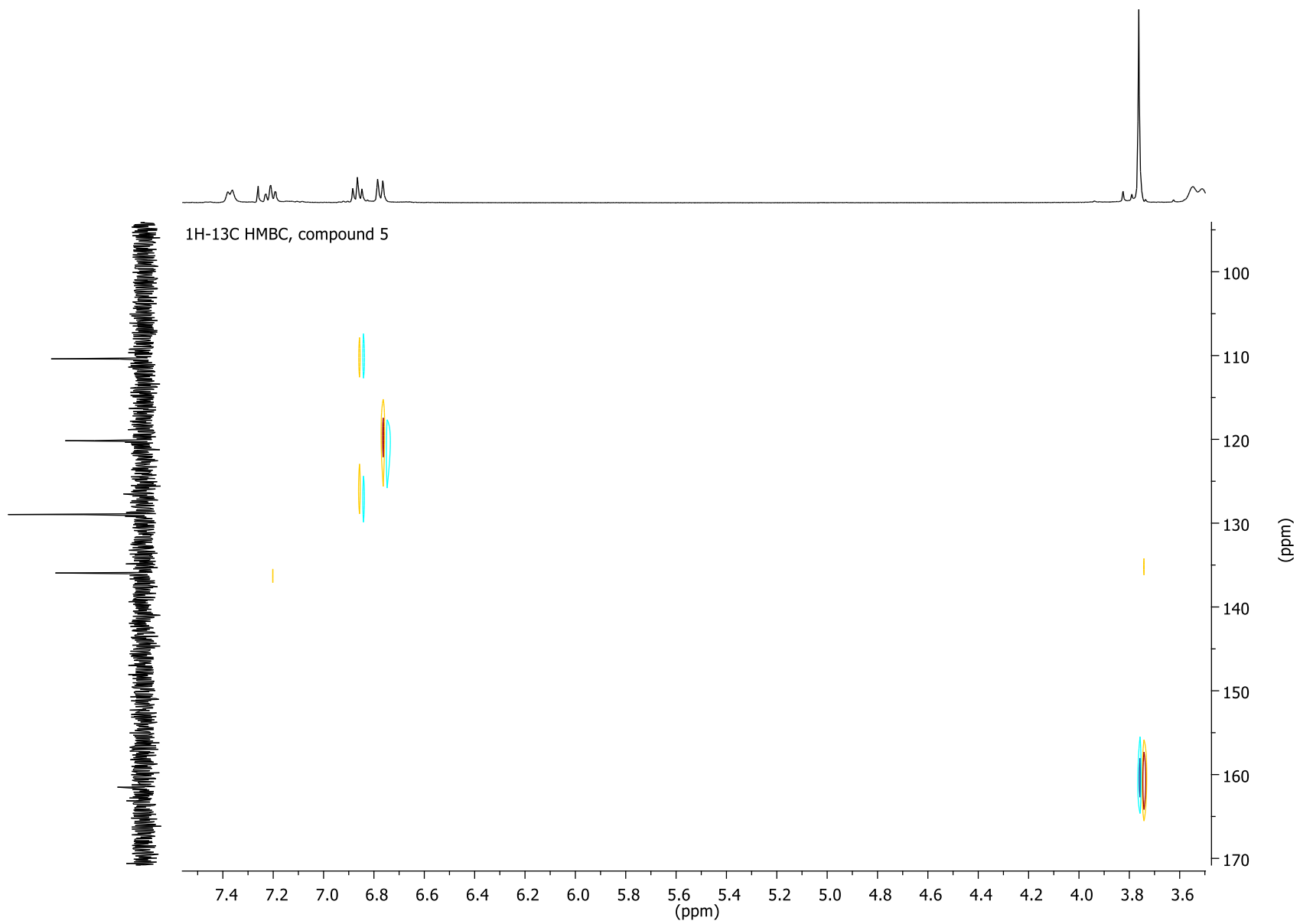
1H, compound 5



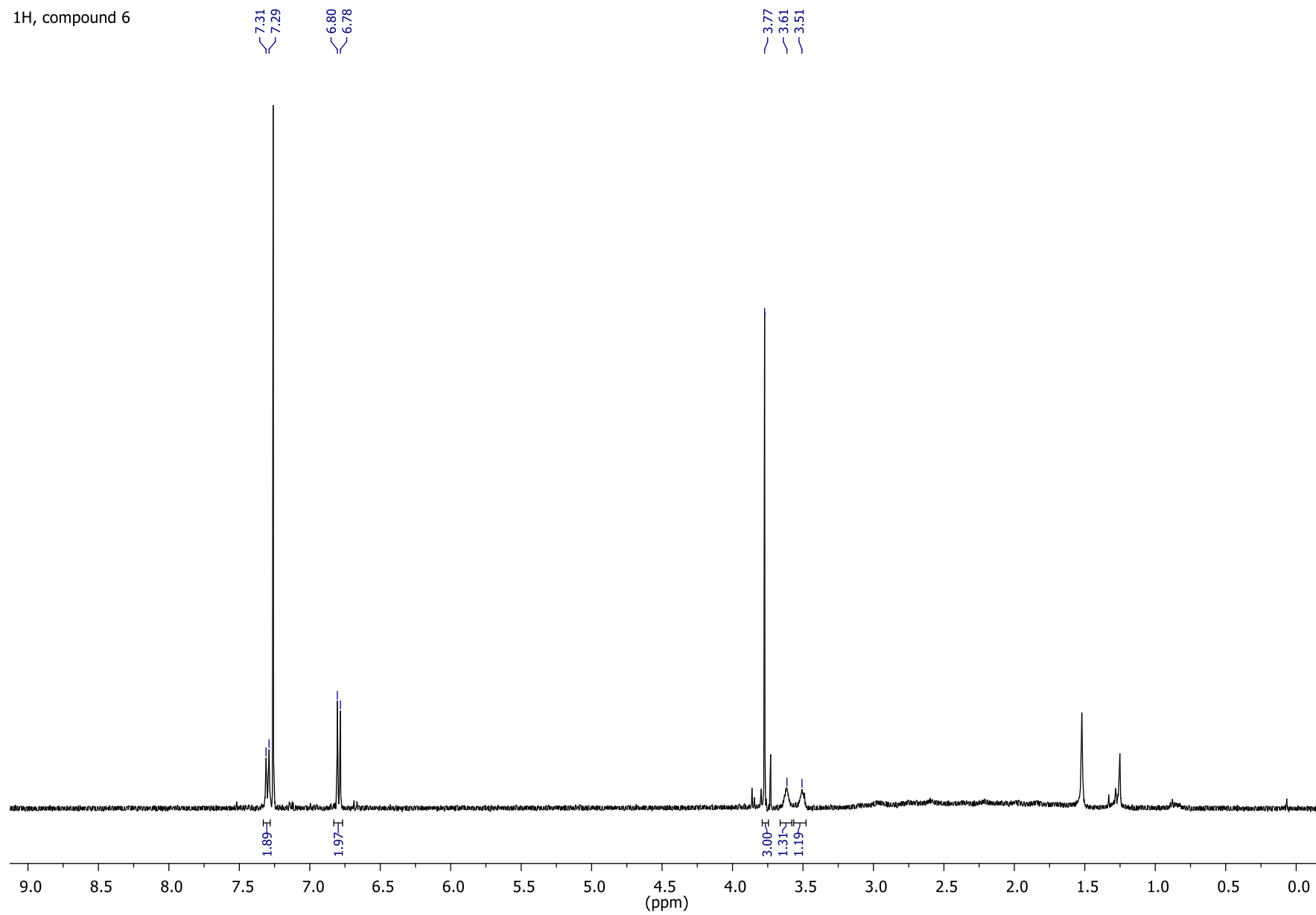
$^{13}\text{C}\{^1\text{H}\}$, compd 5



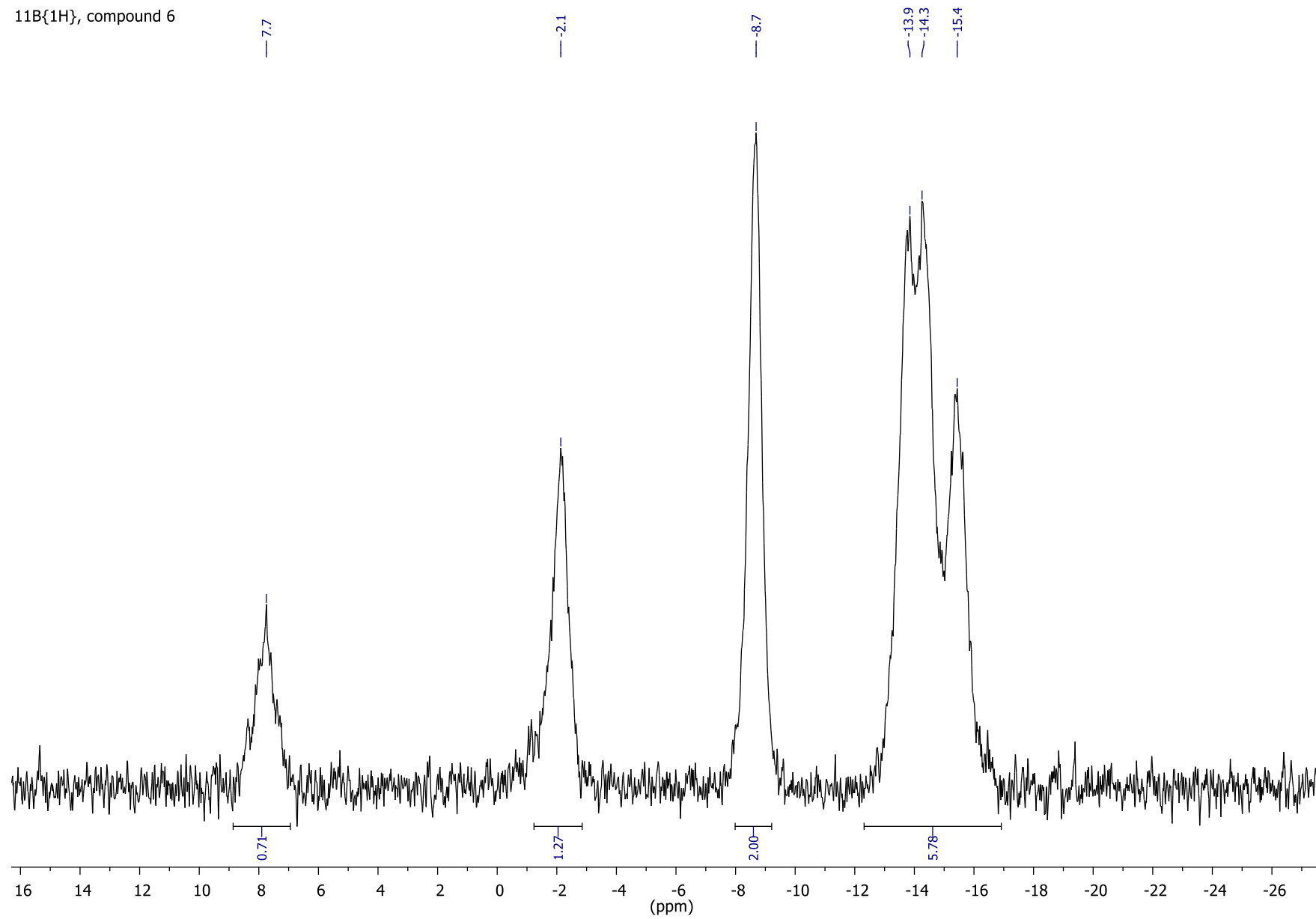




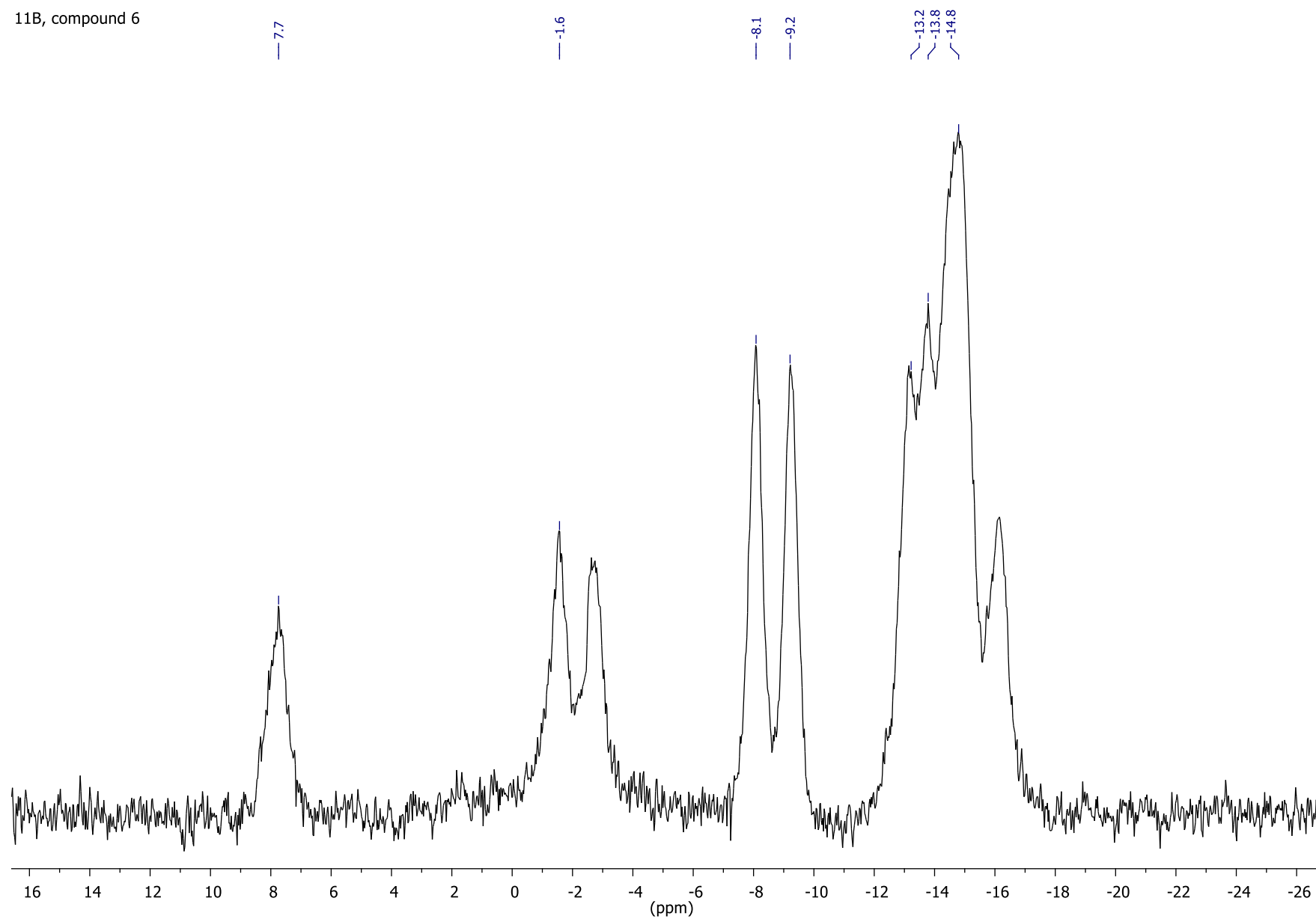
1H, compound 6



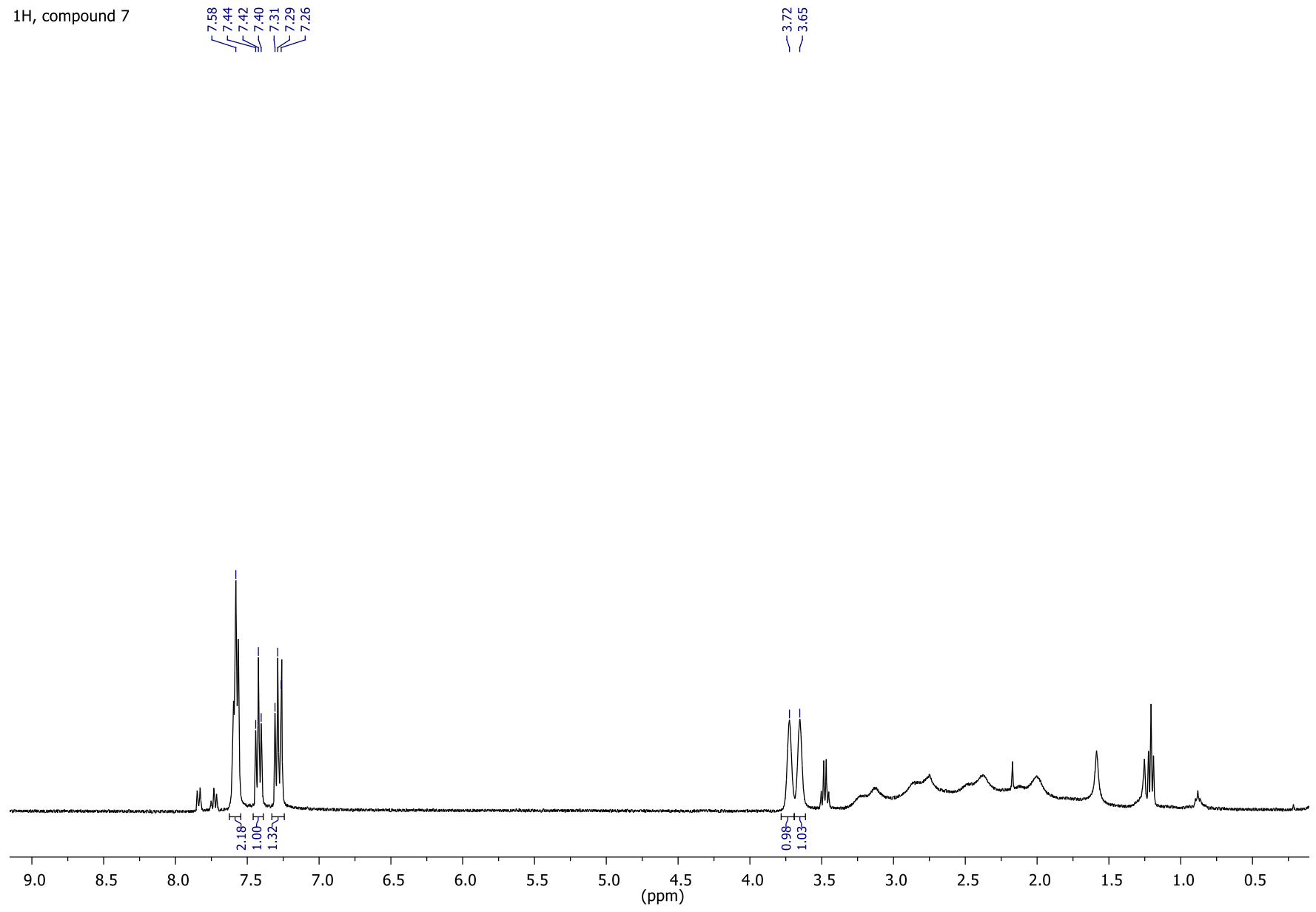
$^{11}\text{B}\{^1\text{H}\}$, compound 6



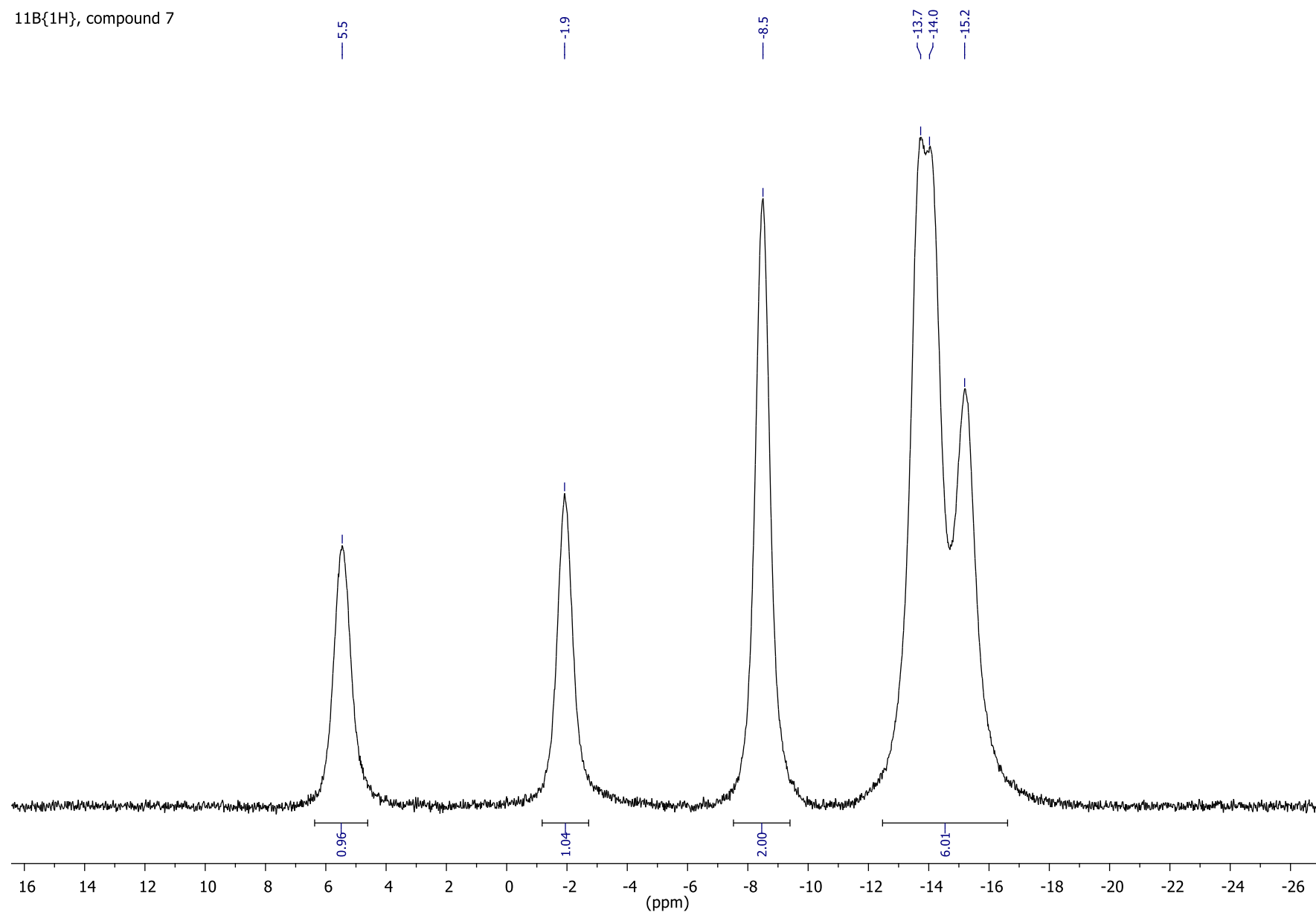
11B, compound 6



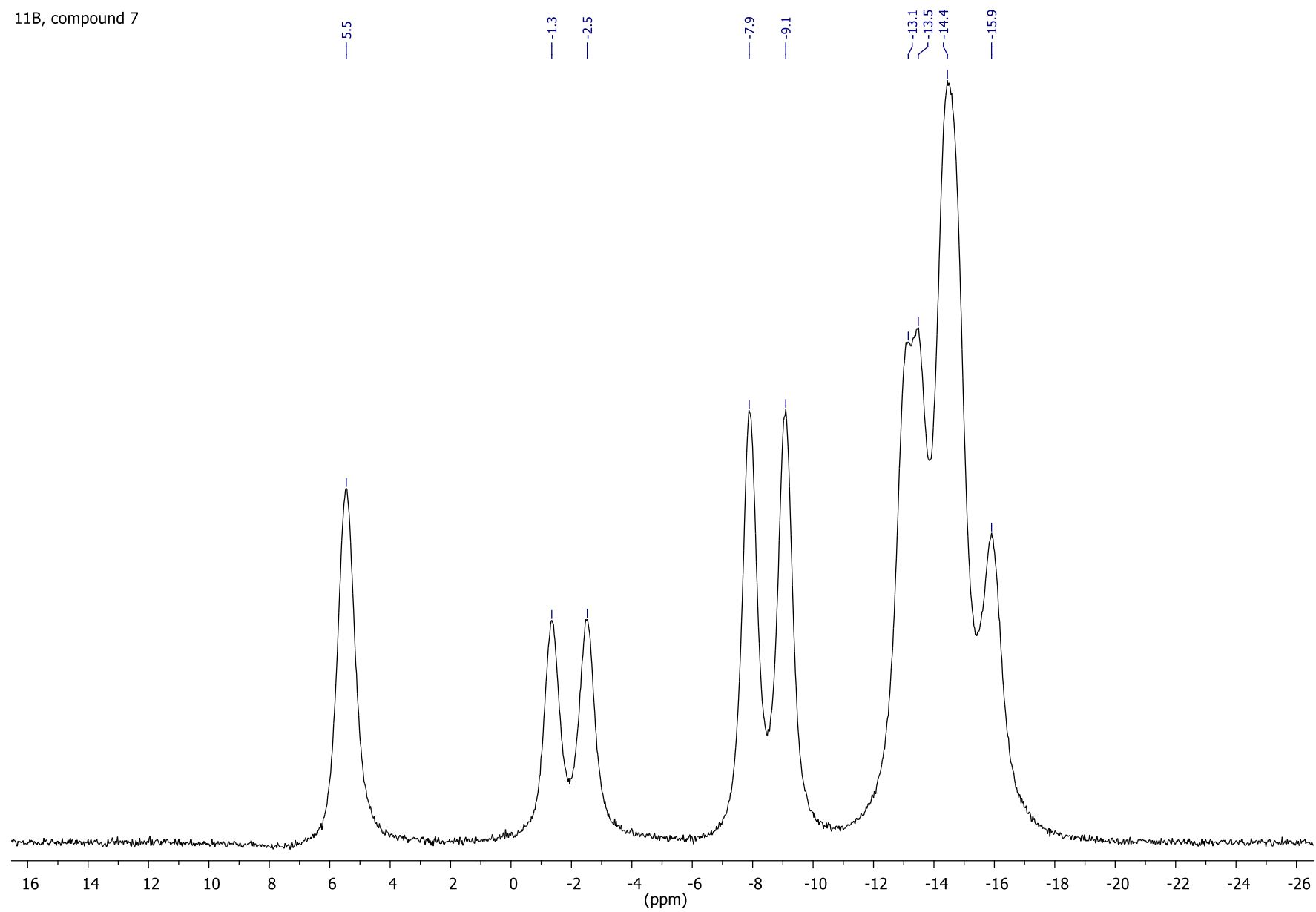
¹H, compound 7



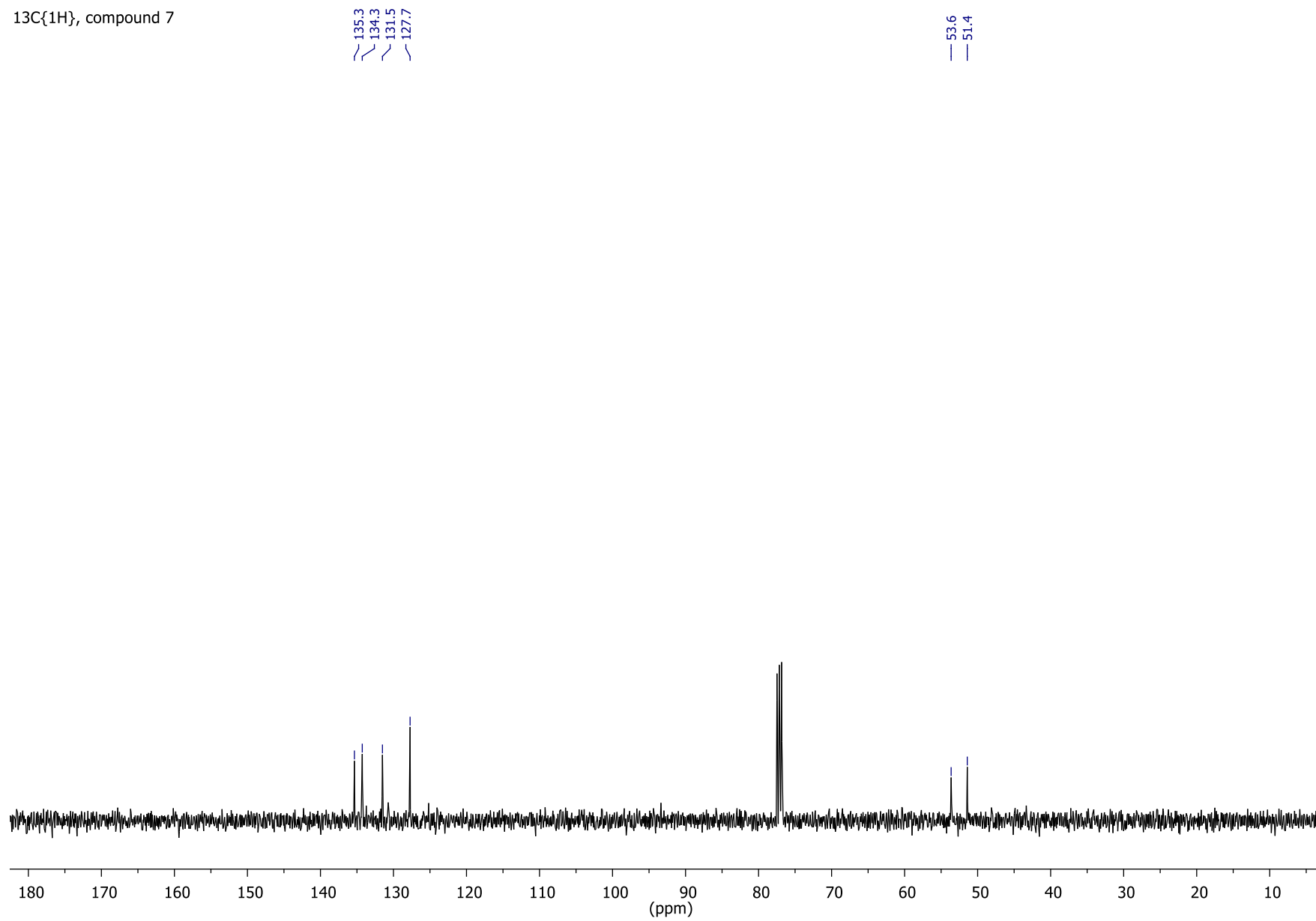
$^{11}\text{B}\{^1\text{H}\}$, compound 7

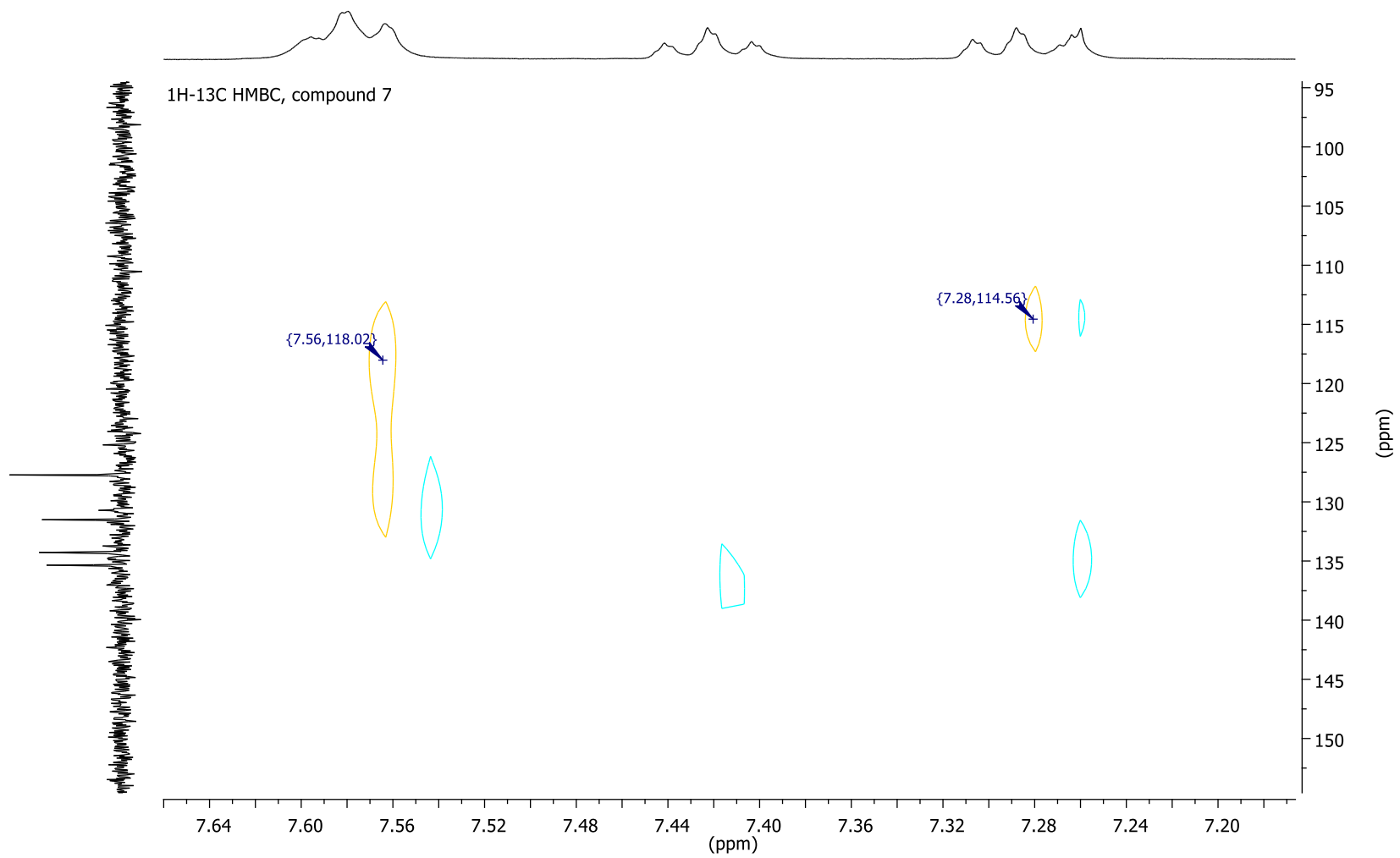


11B, compound 7

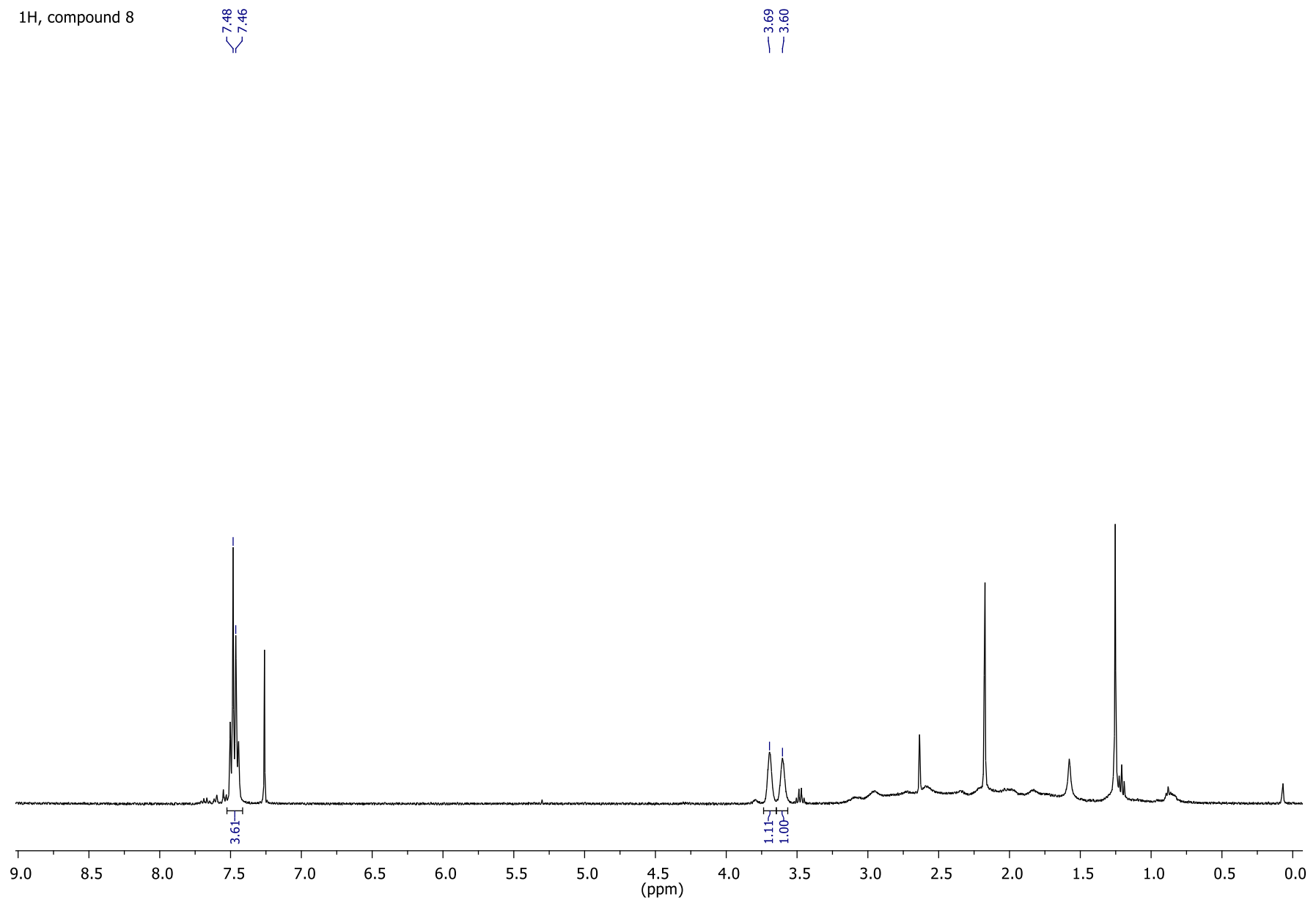


$^{13}\text{C}\{^1\text{H}\}$, compound 7

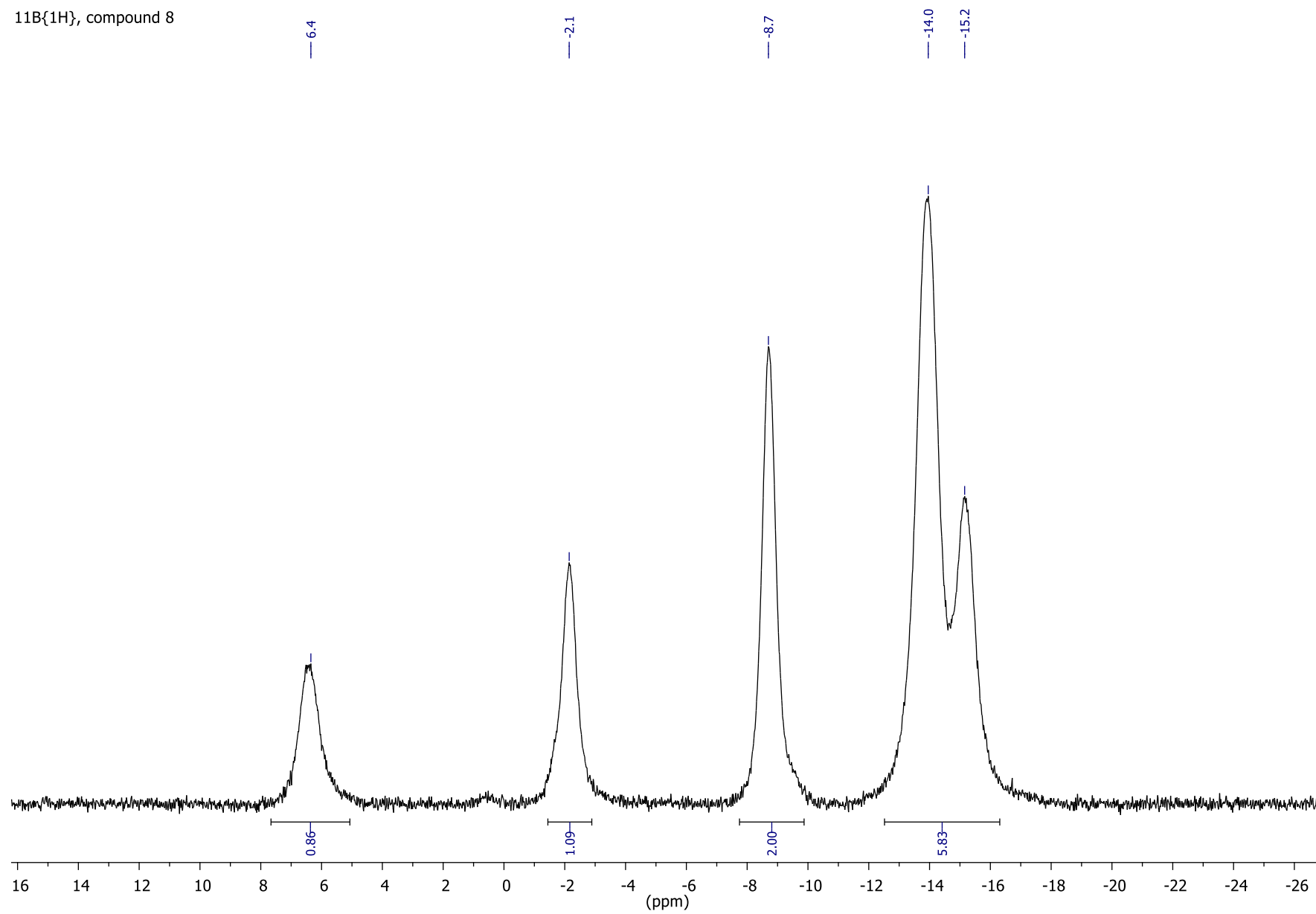




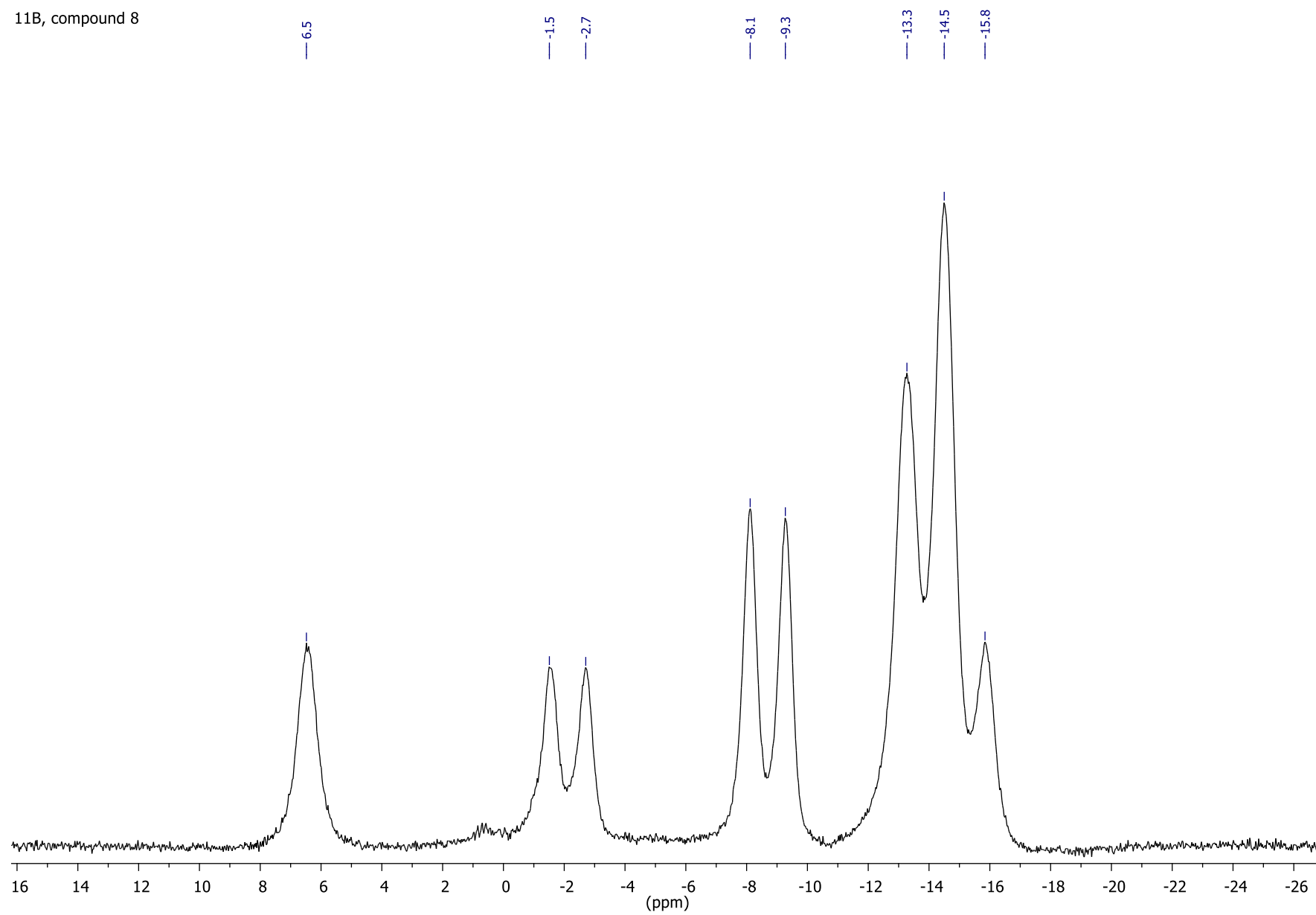
¹H, compound 8



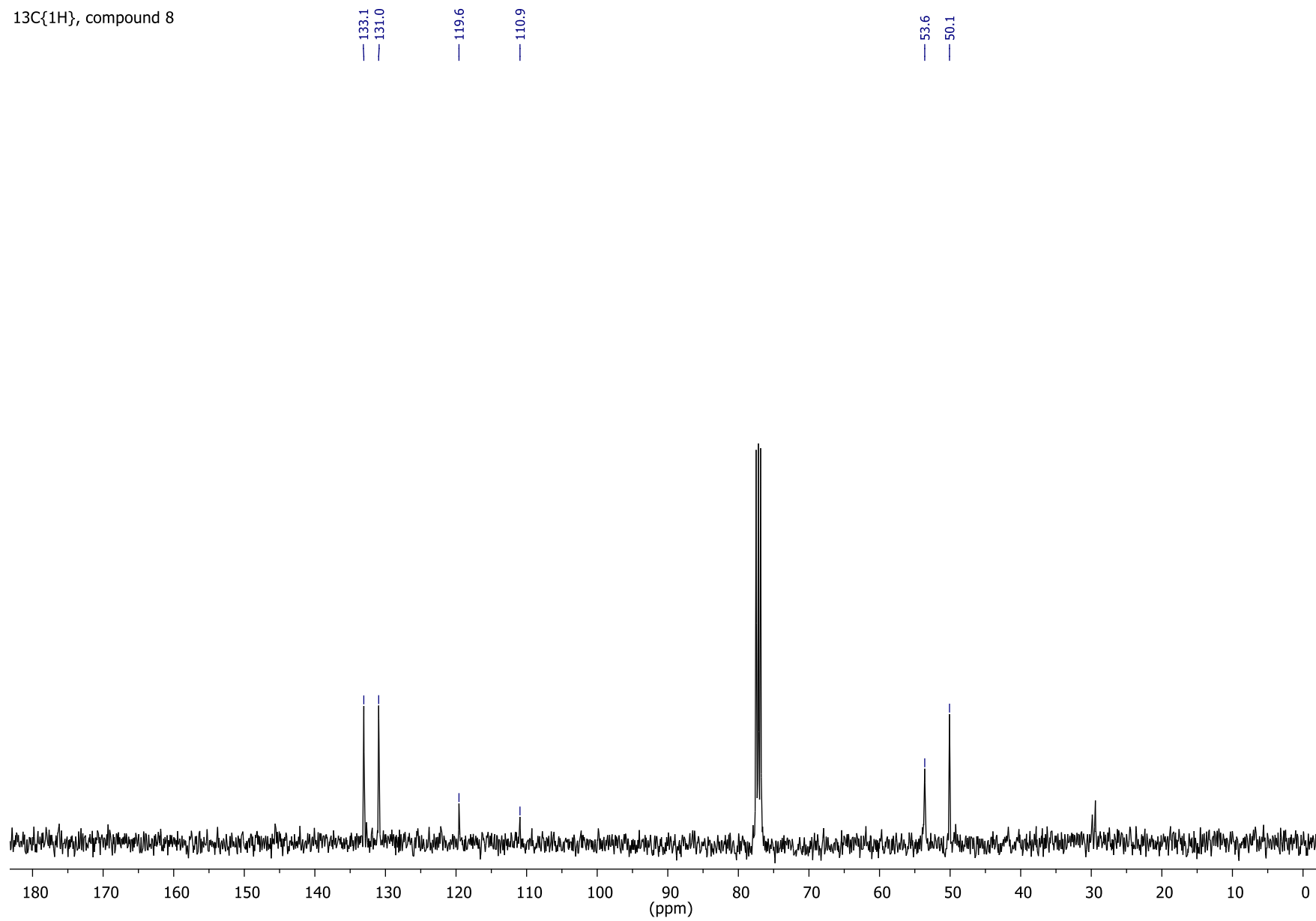
$^{11}\text{B}\{^1\text{H}\}$, compound 8



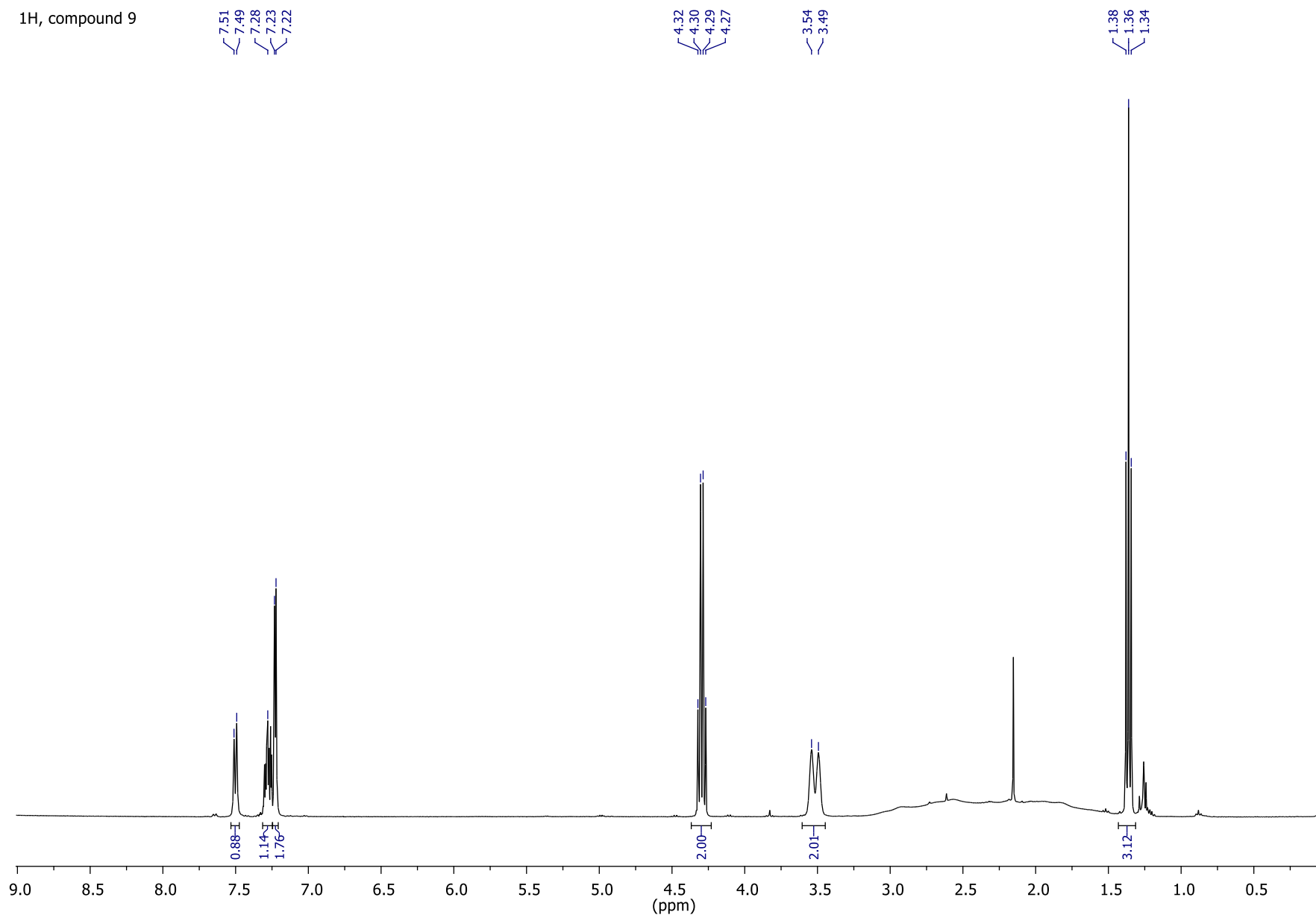
11B, compound 8



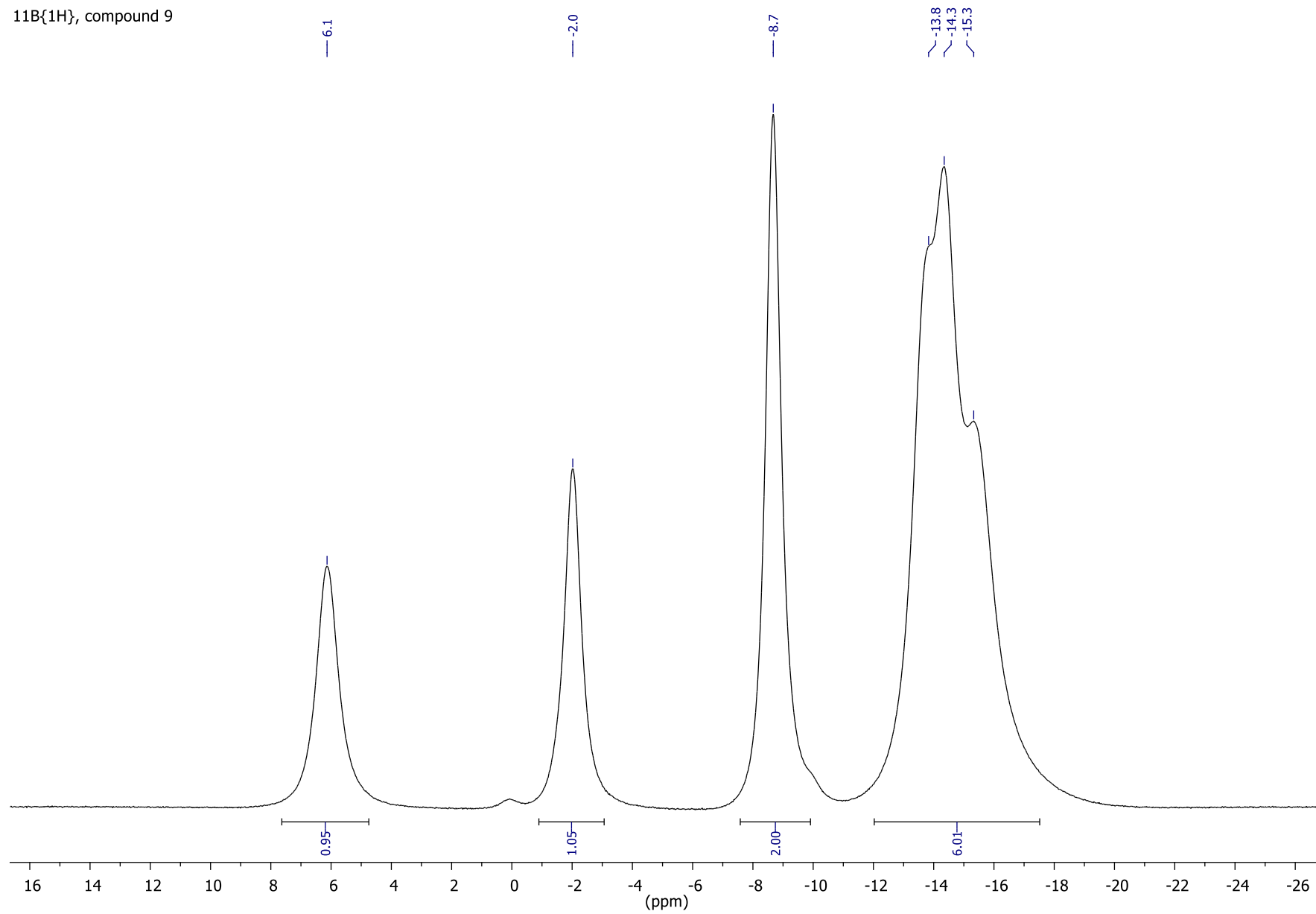
$^{13}\text{C}\{^1\text{H}\}$, compound 8



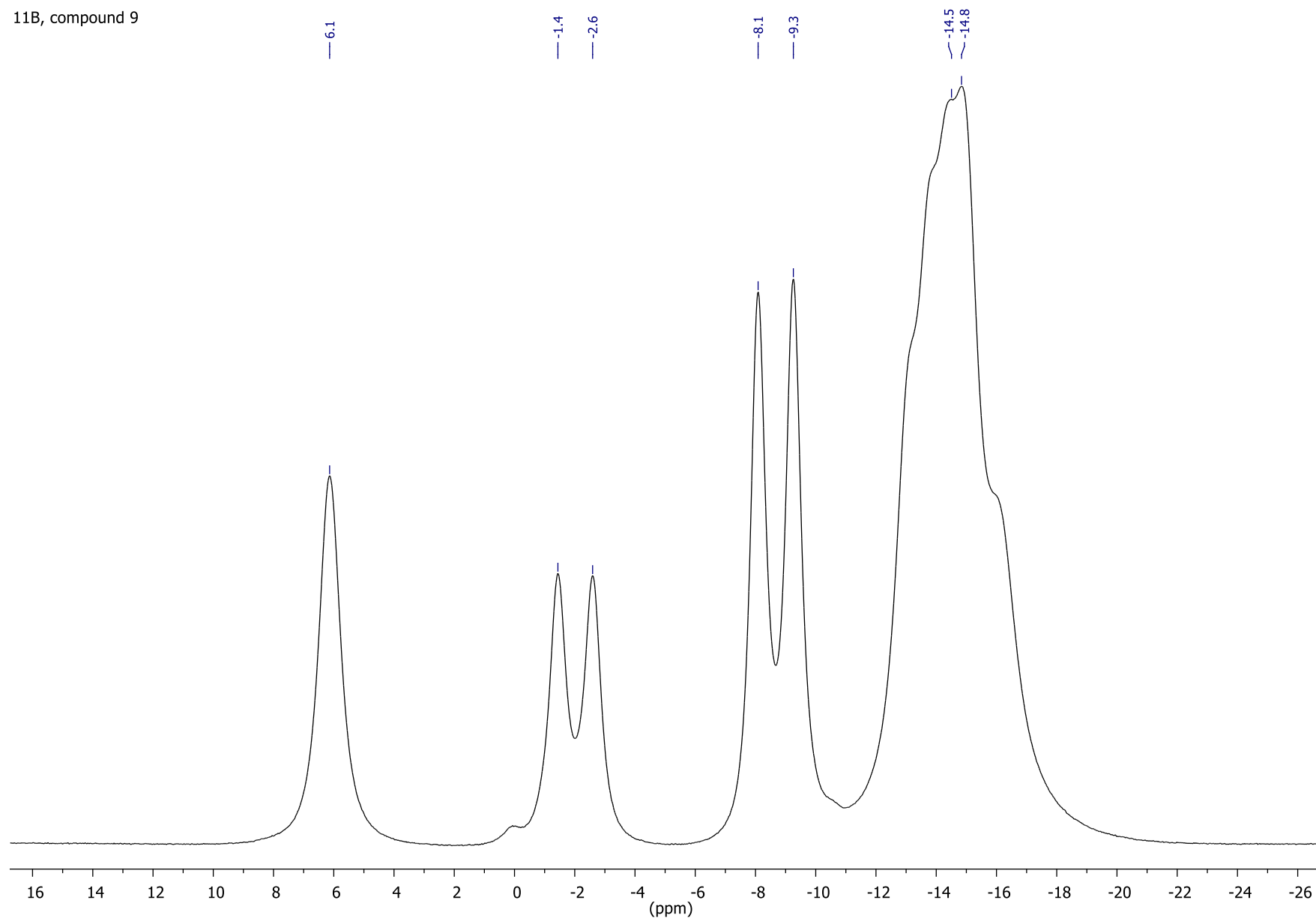
¹H, compound 9



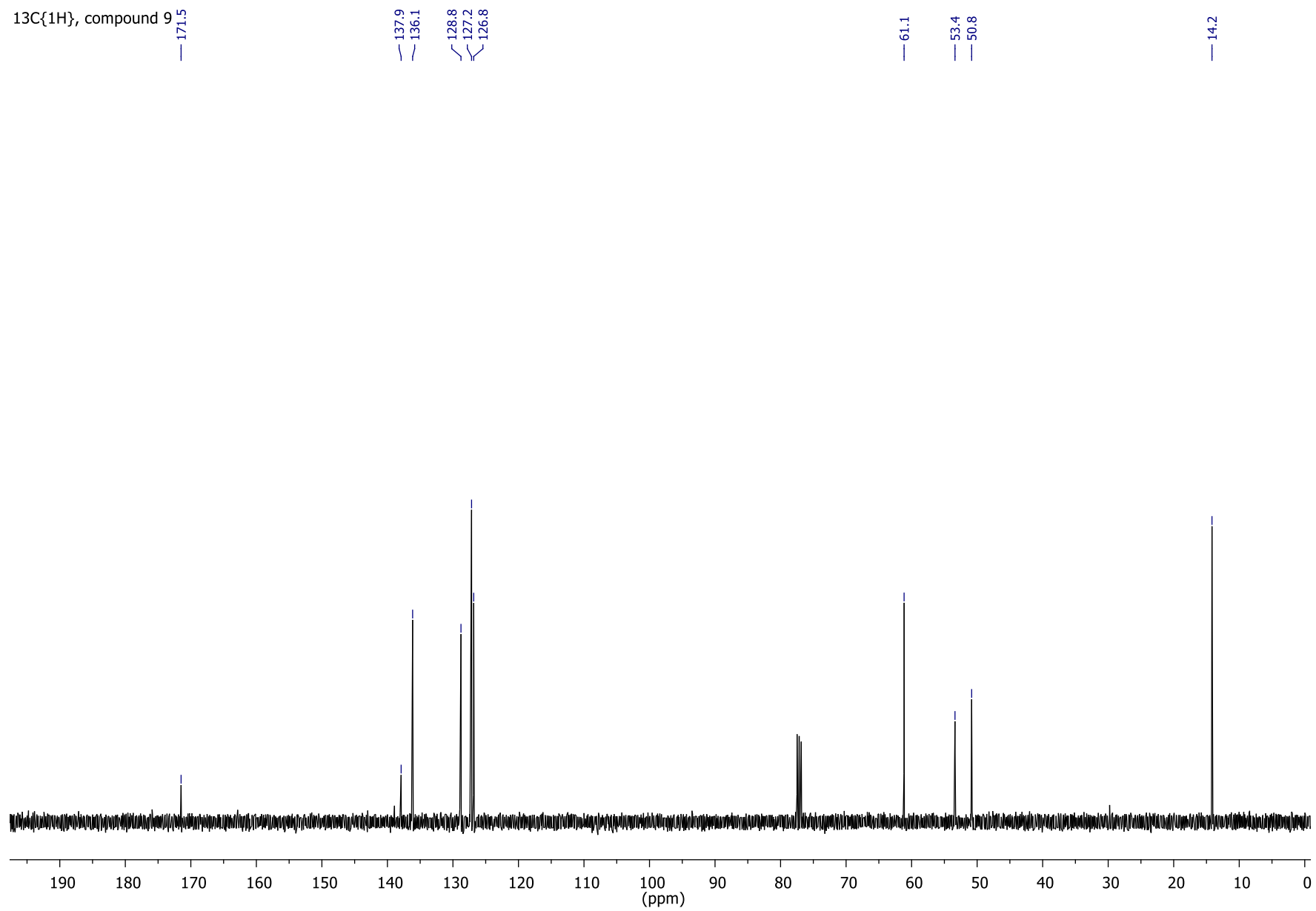
$^{11}\text{B}\{^1\text{H}\}$, compound 9

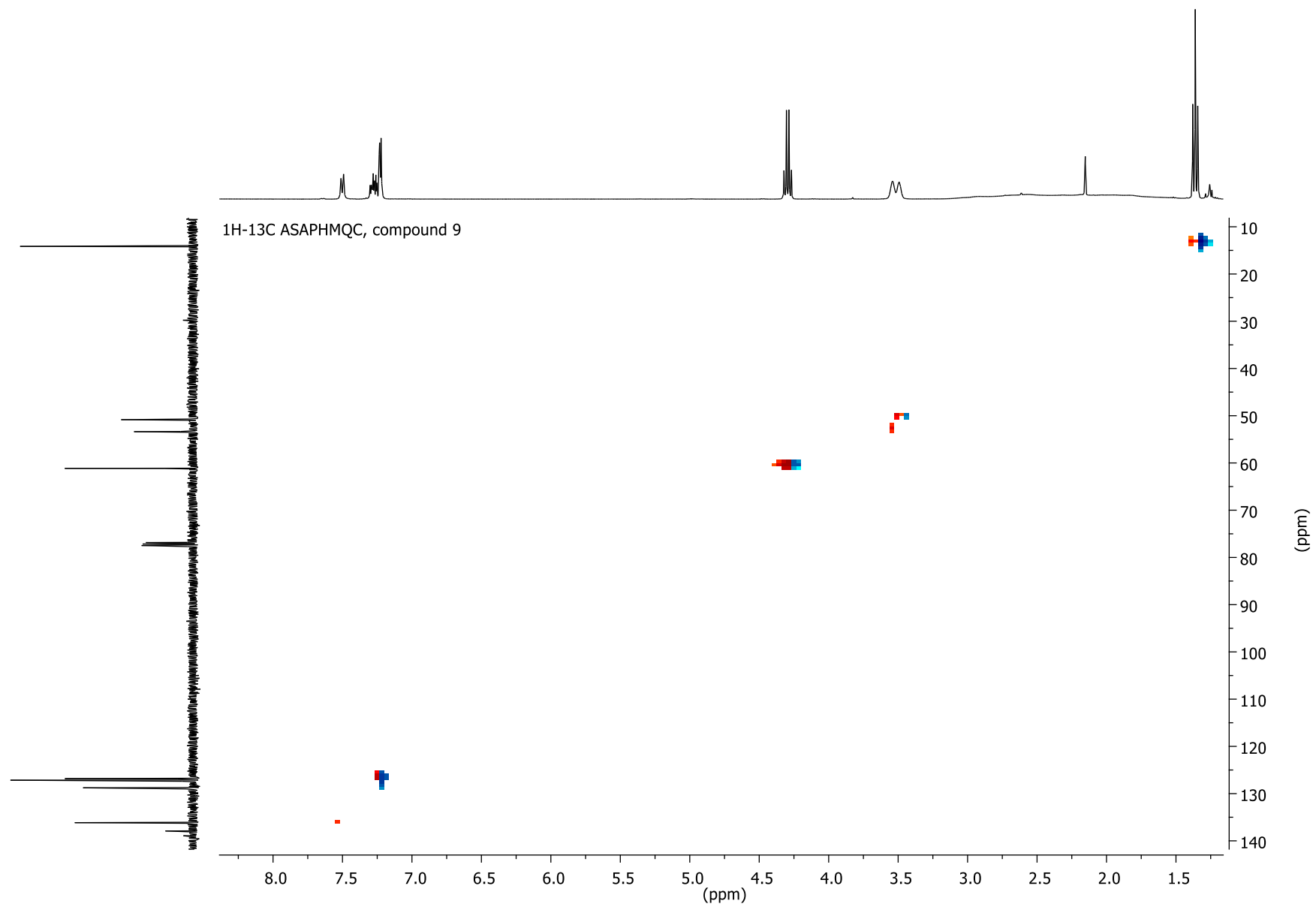


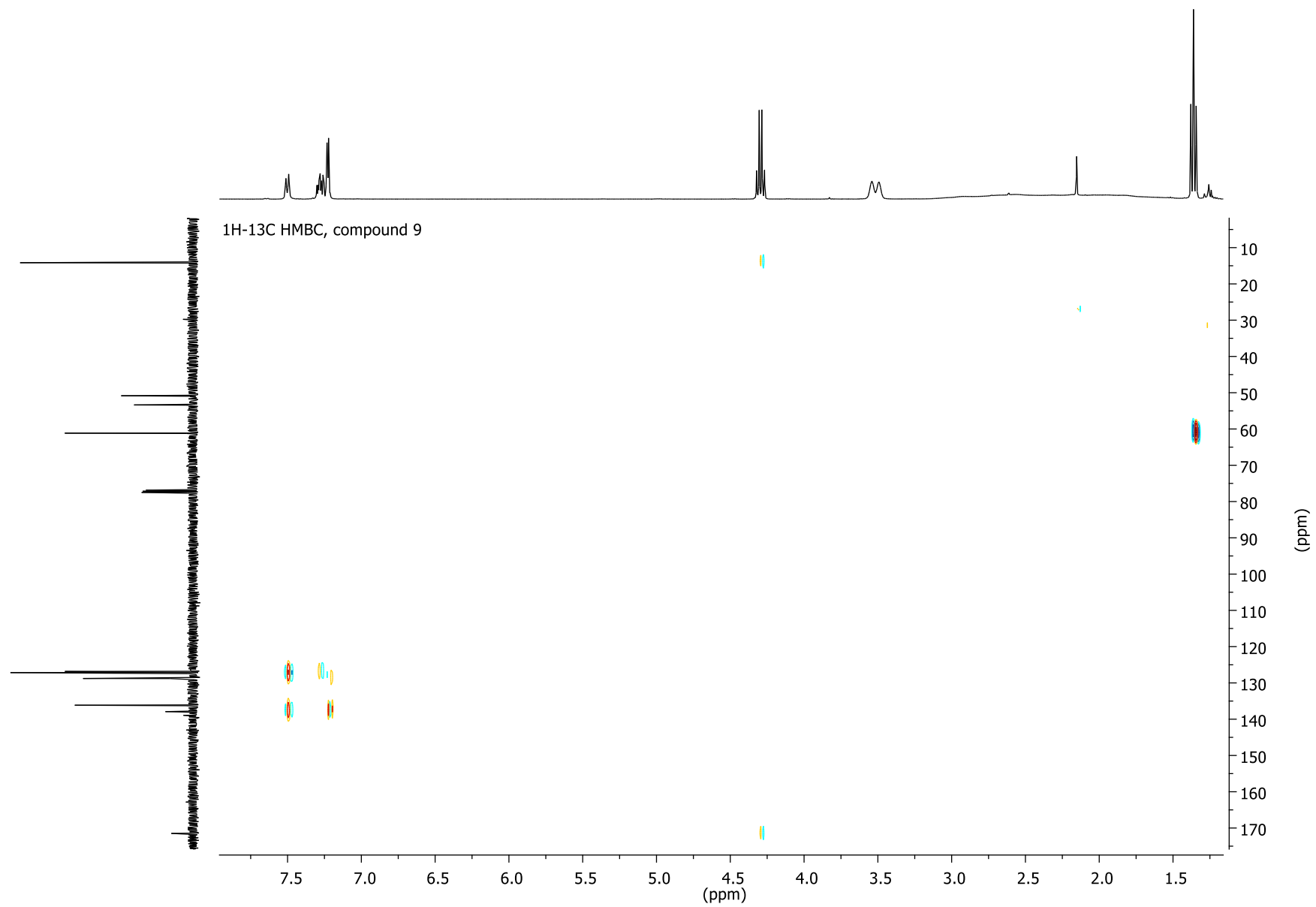
11B, compound 9



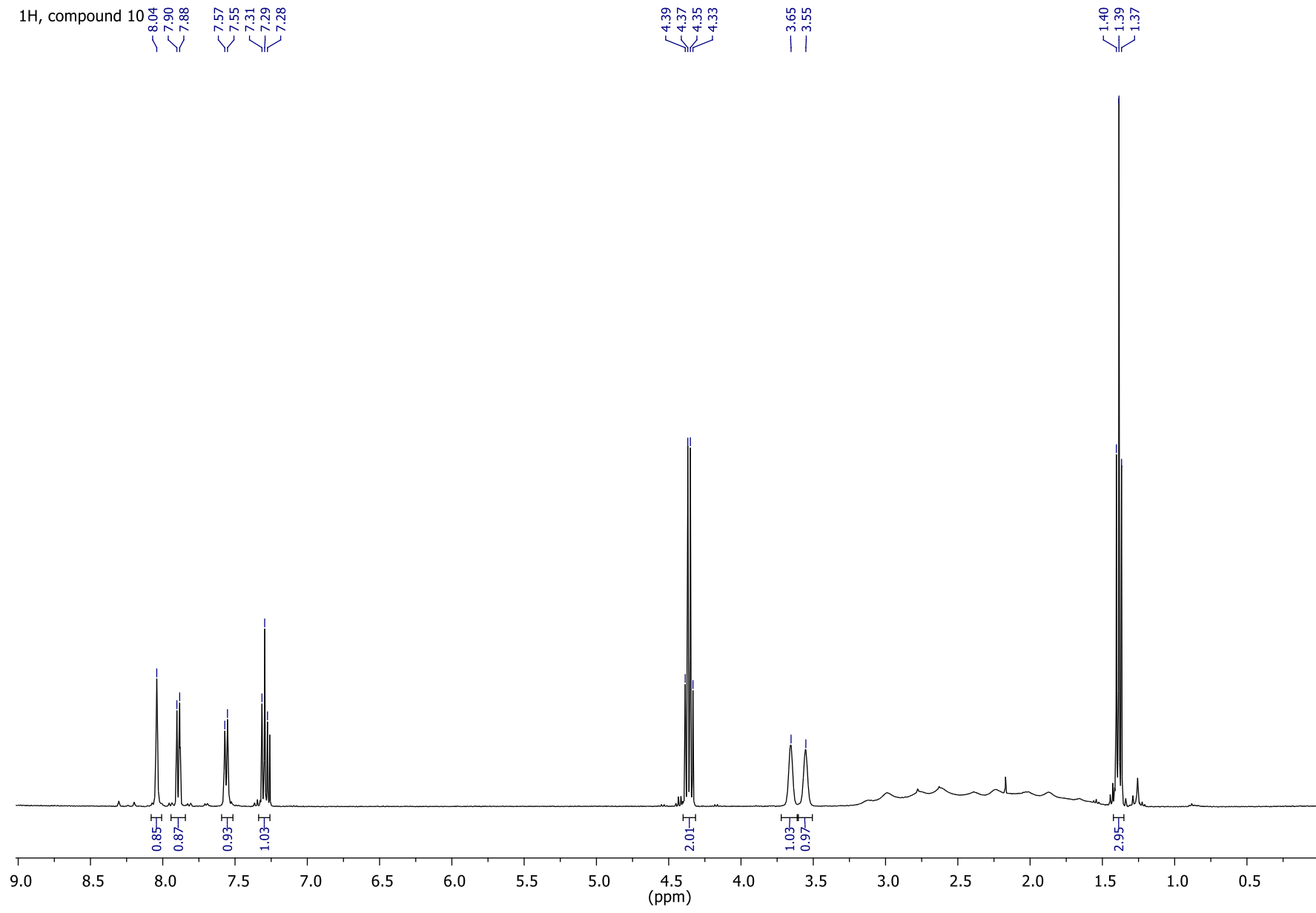
$^{13}\text{C}\{^1\text{H}\}$, compound 9



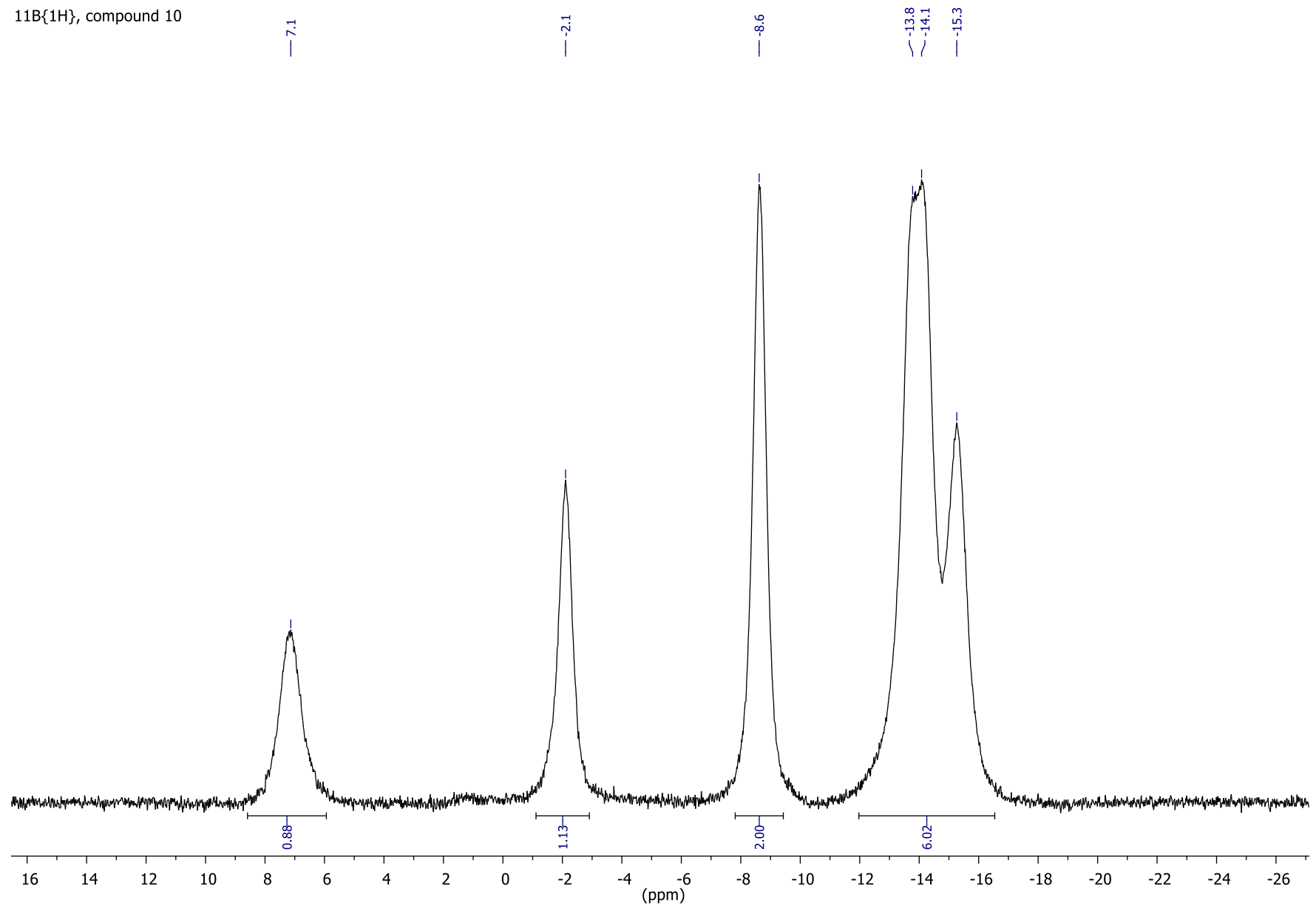




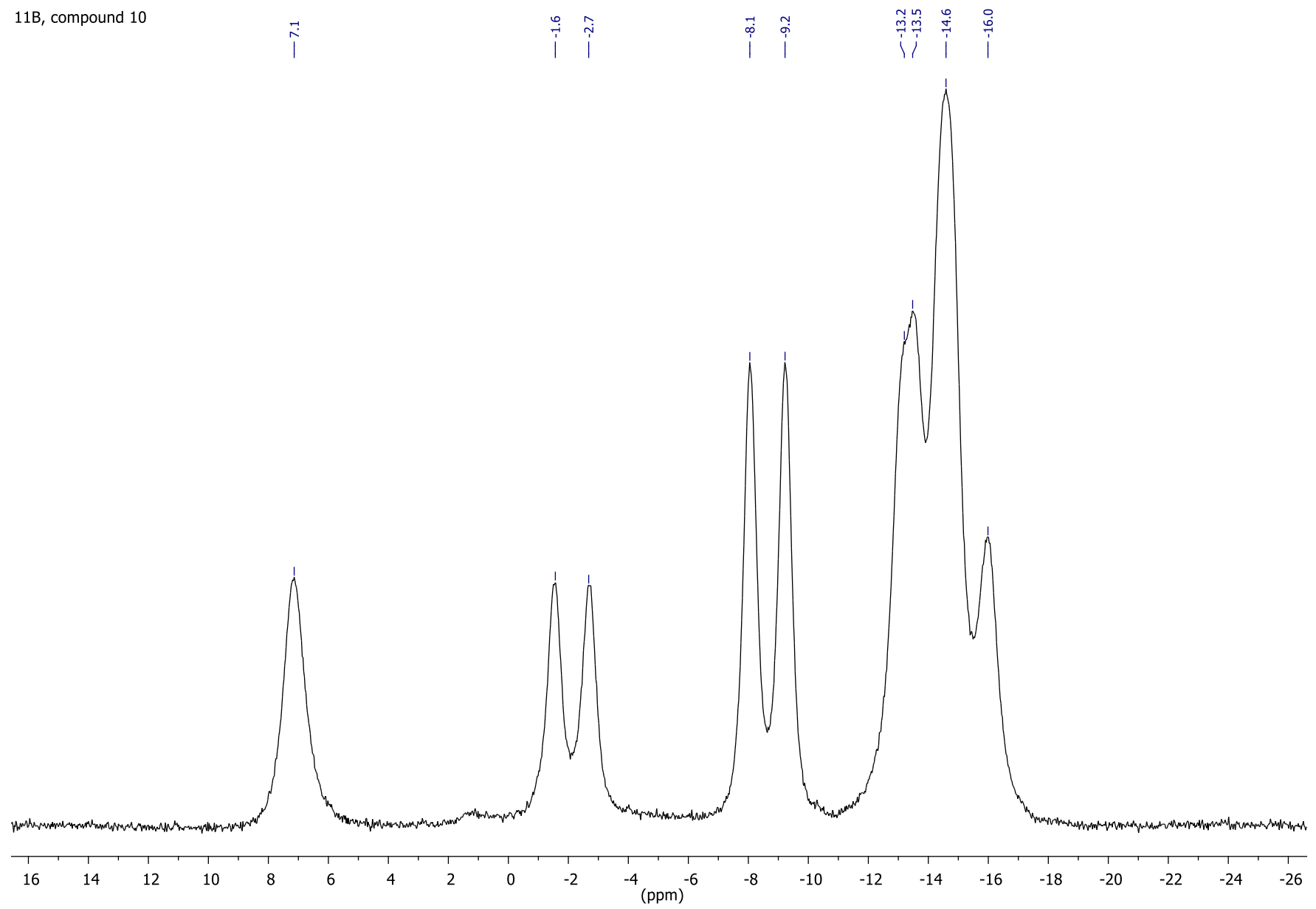
¹H, compound 10



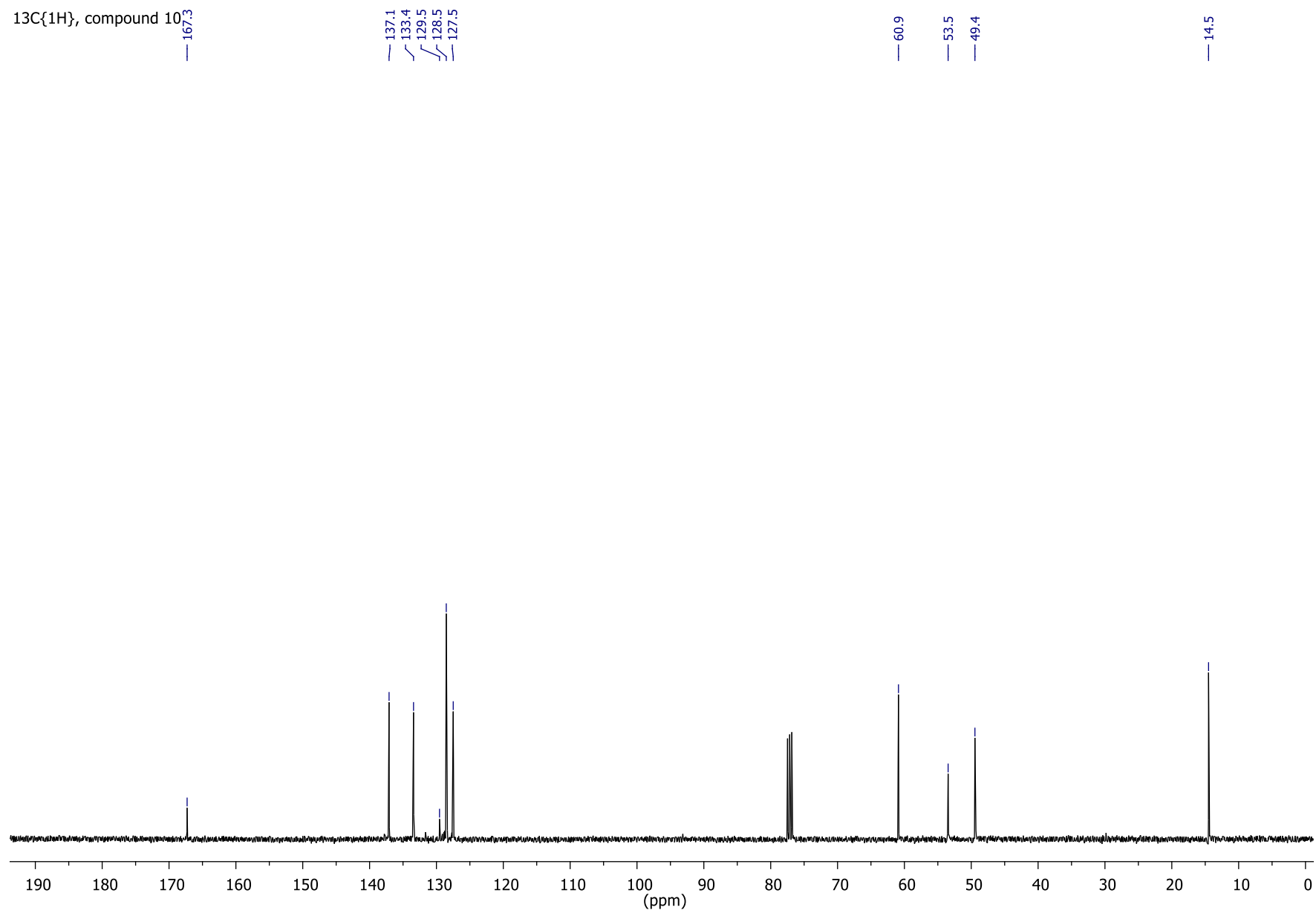
$^{11}\text{B}\{^1\text{H}\}$, compound 10

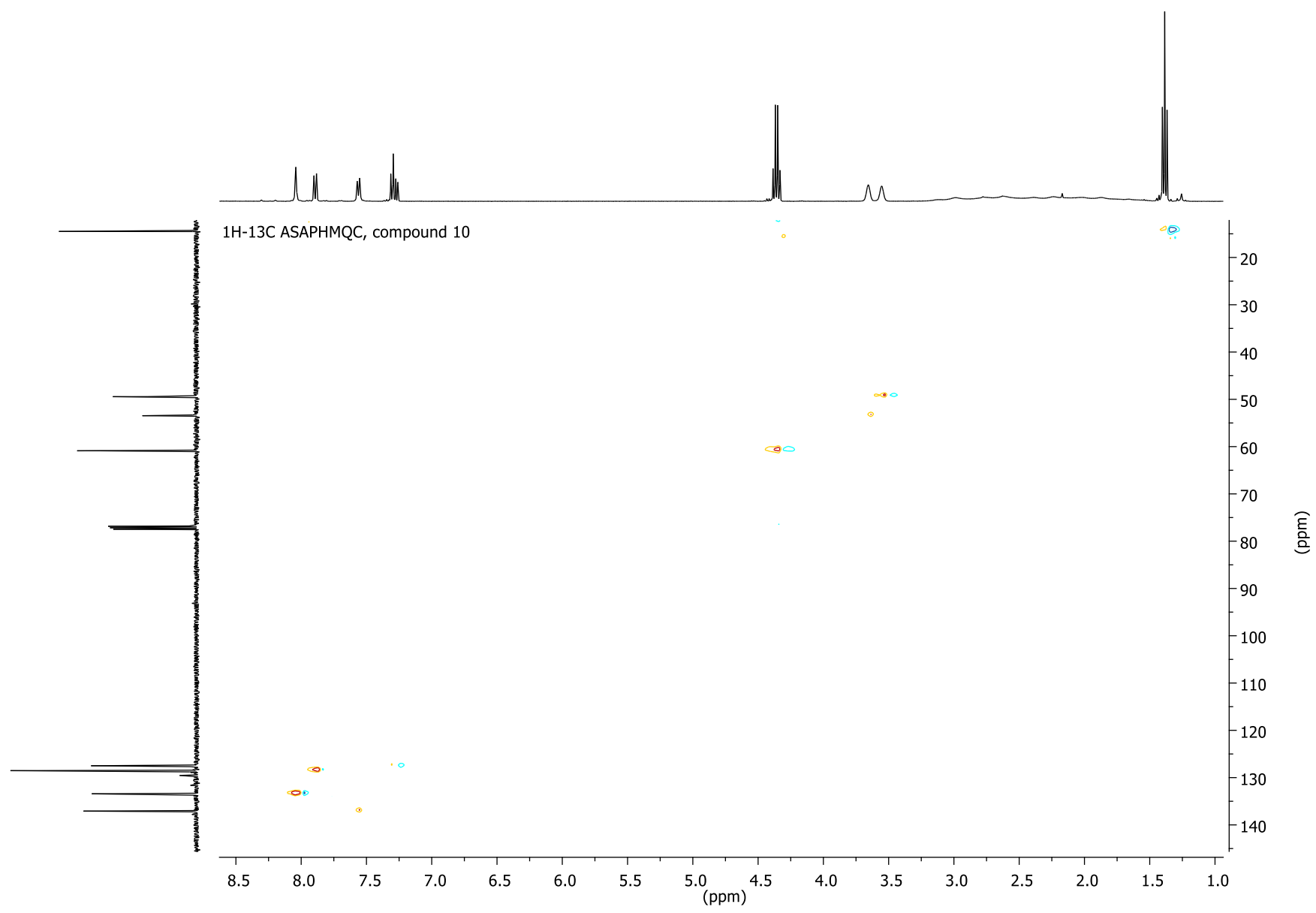


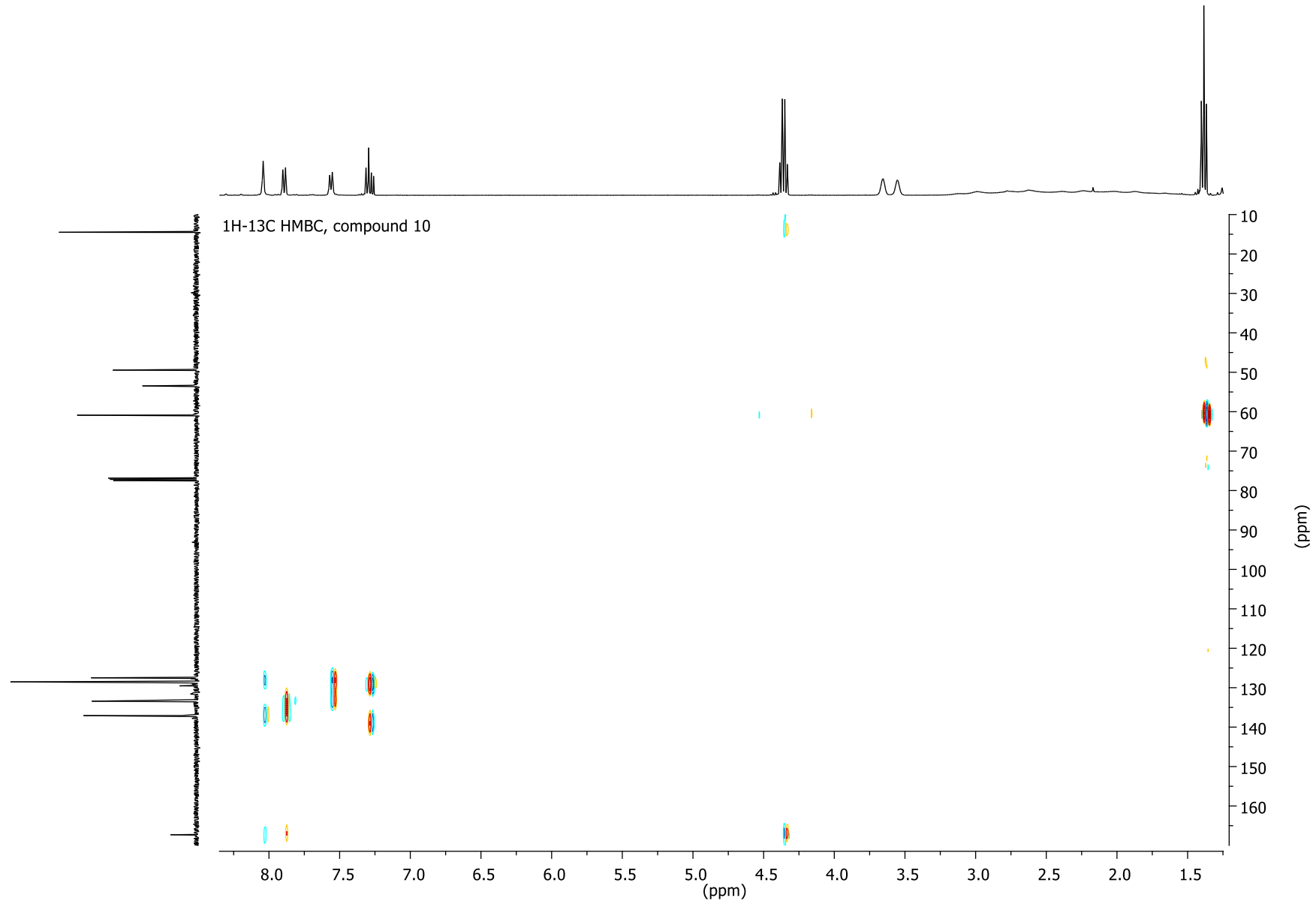
11B, compound 10



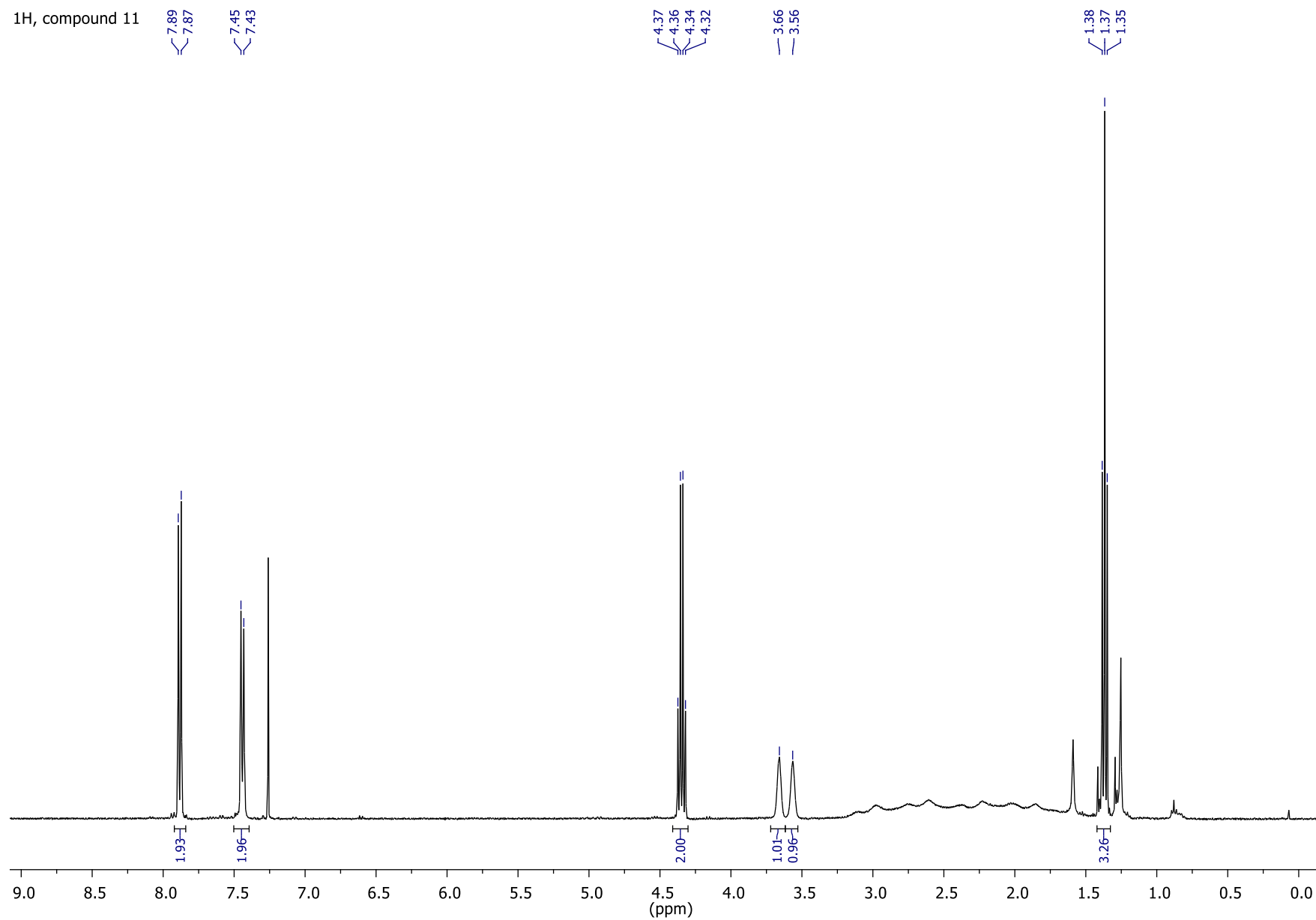
$^{13}\text{C}\{^1\text{H}\}$, compound 10



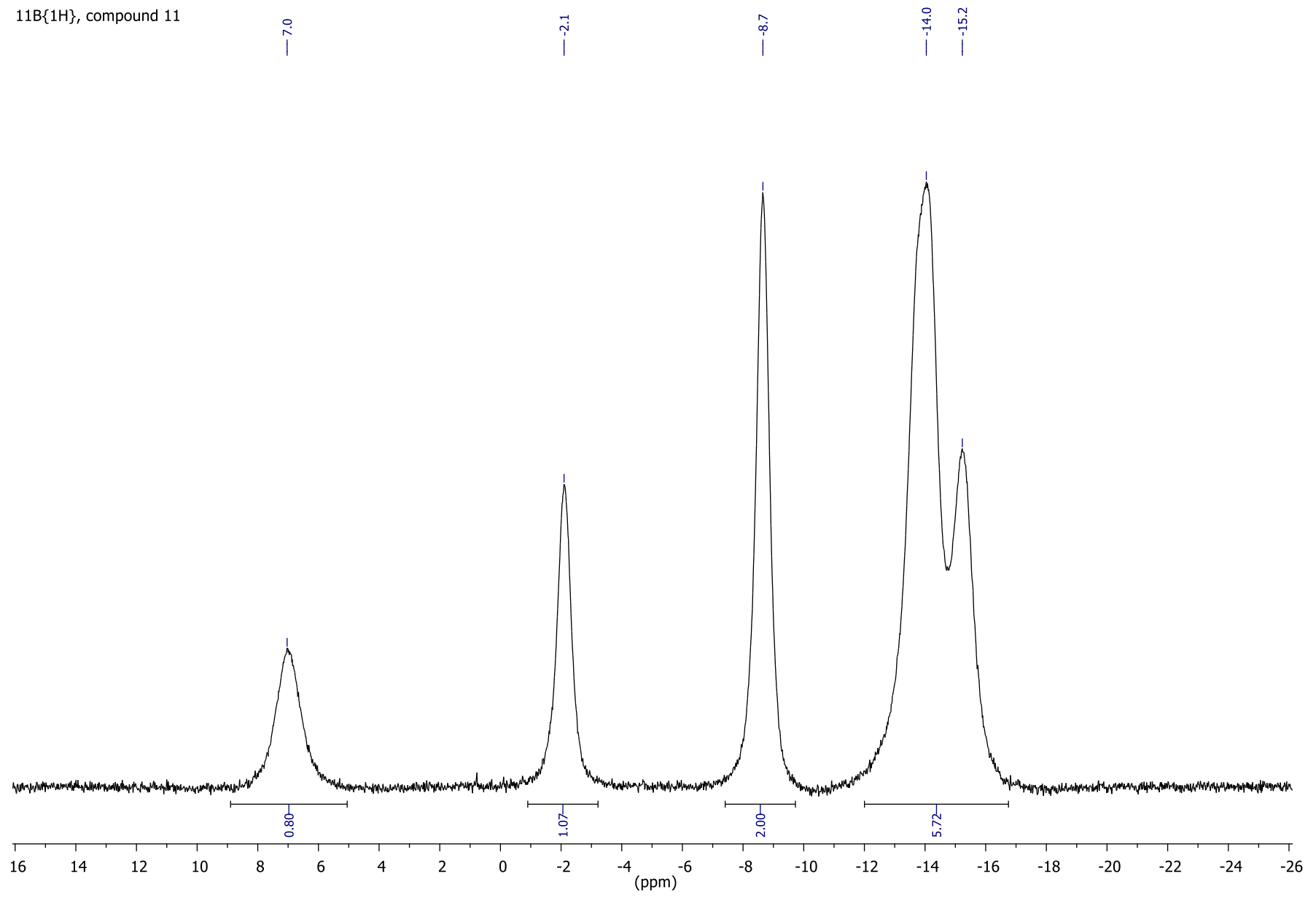




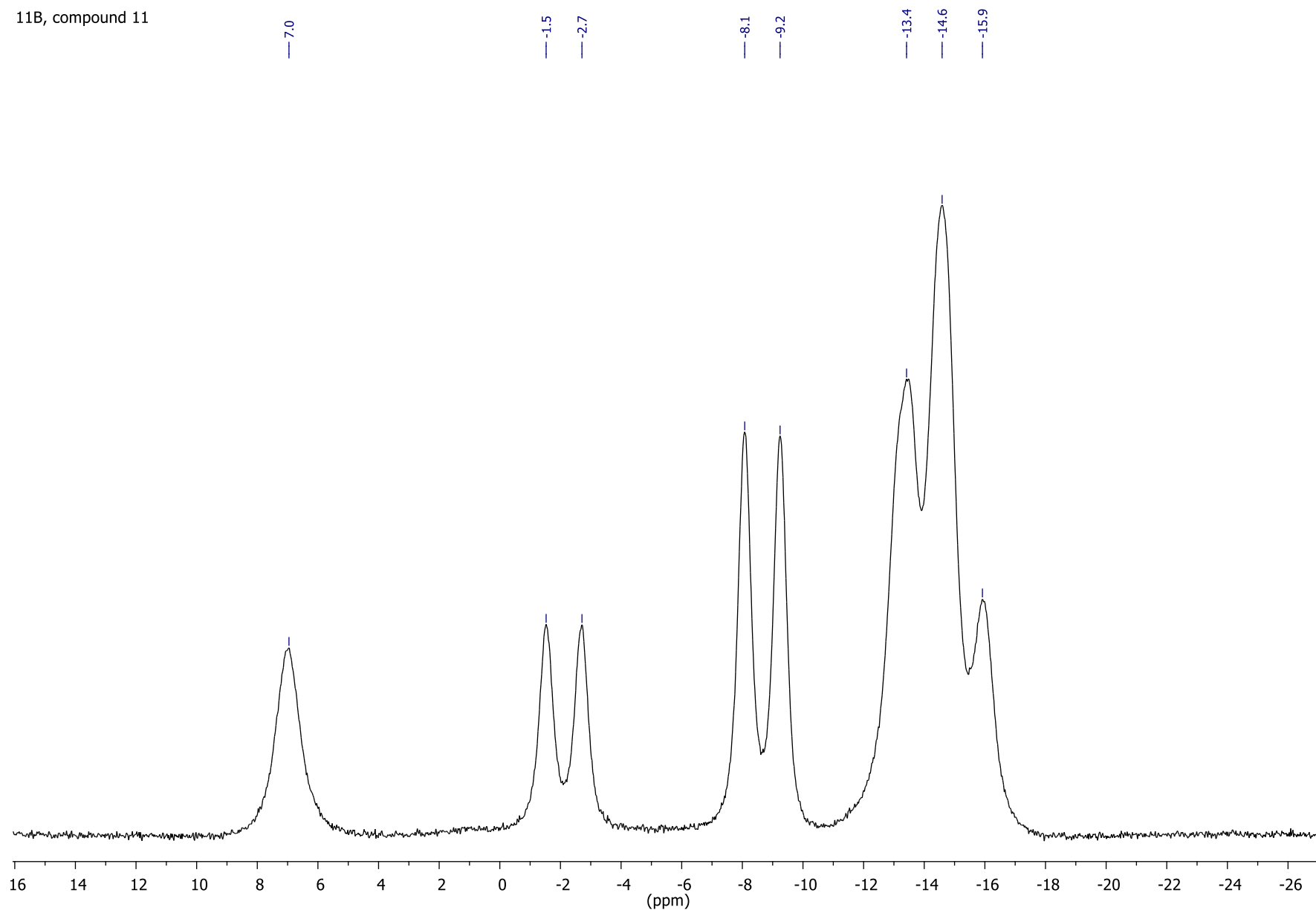
¹H, compound 11



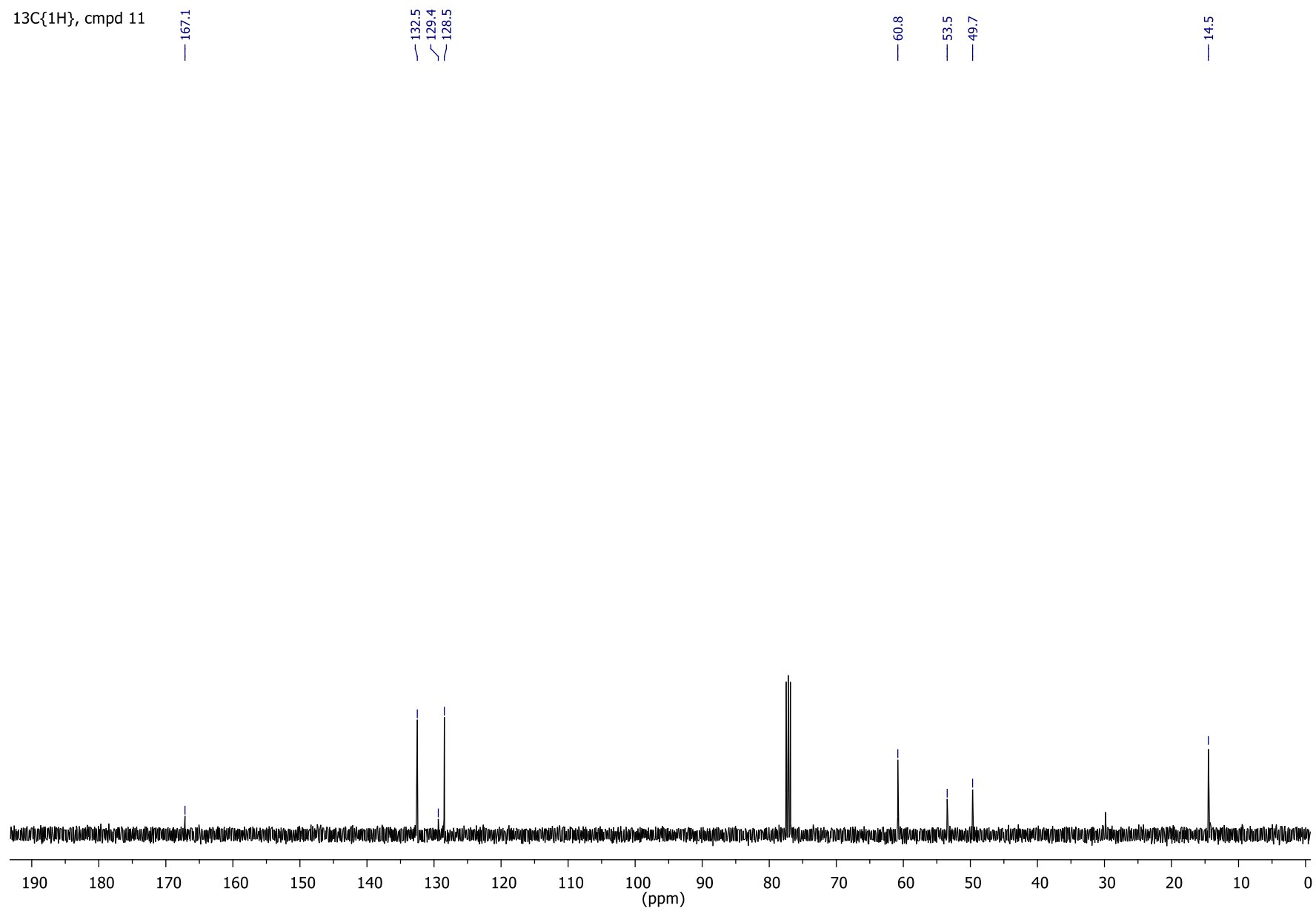
$^{11}\text{B}\{^1\text{H}\}$, compound 11

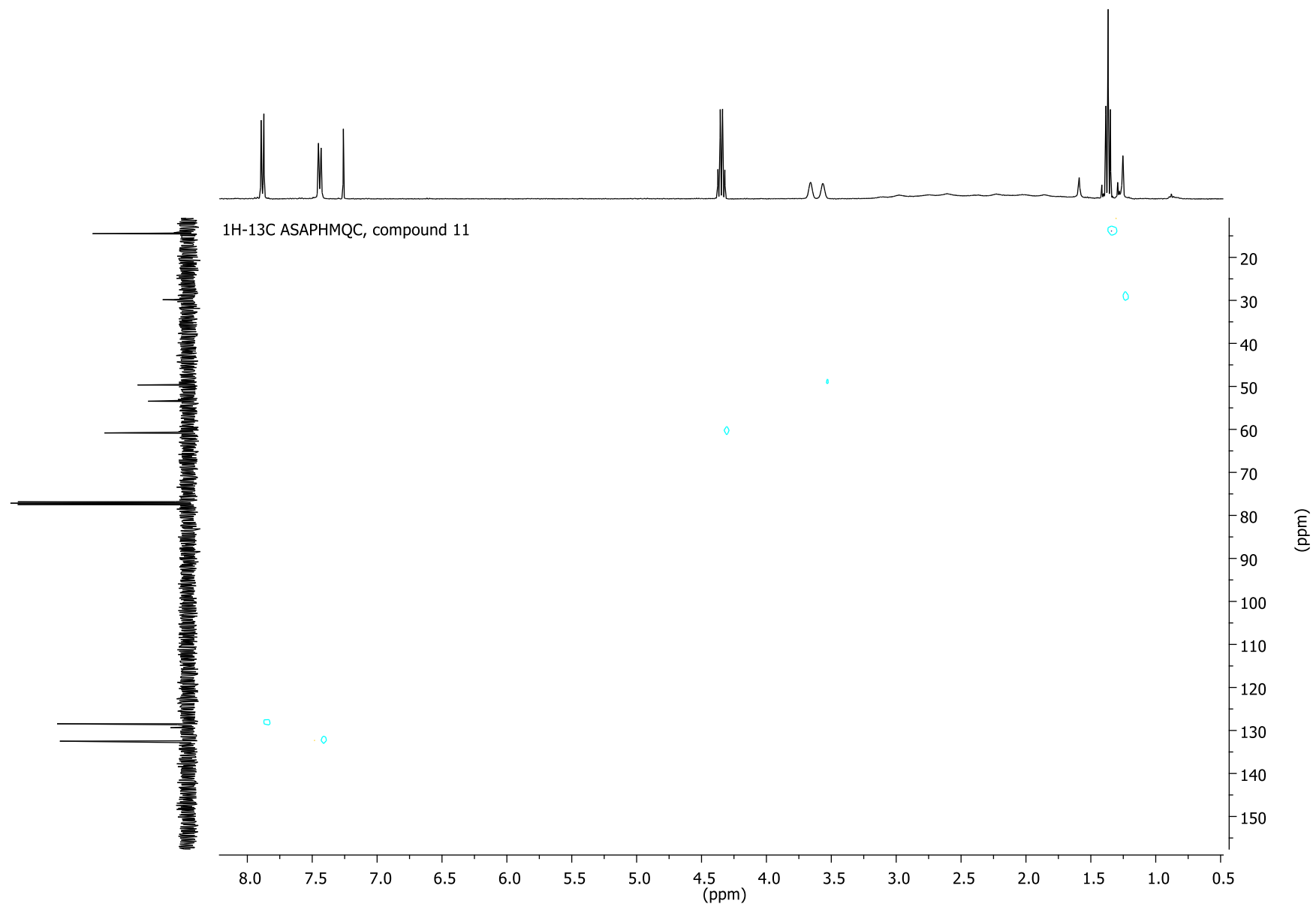


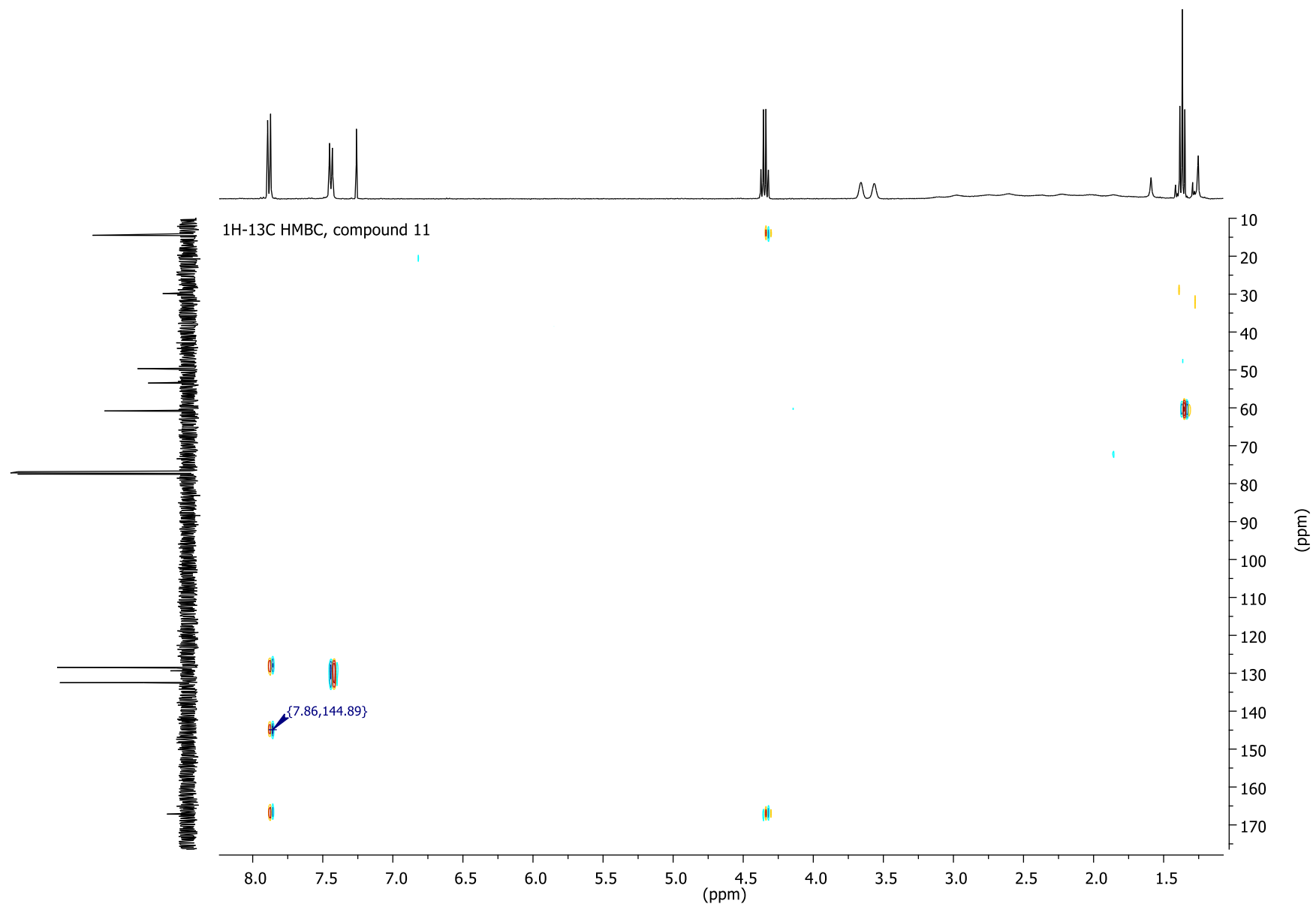
11B, compound 11



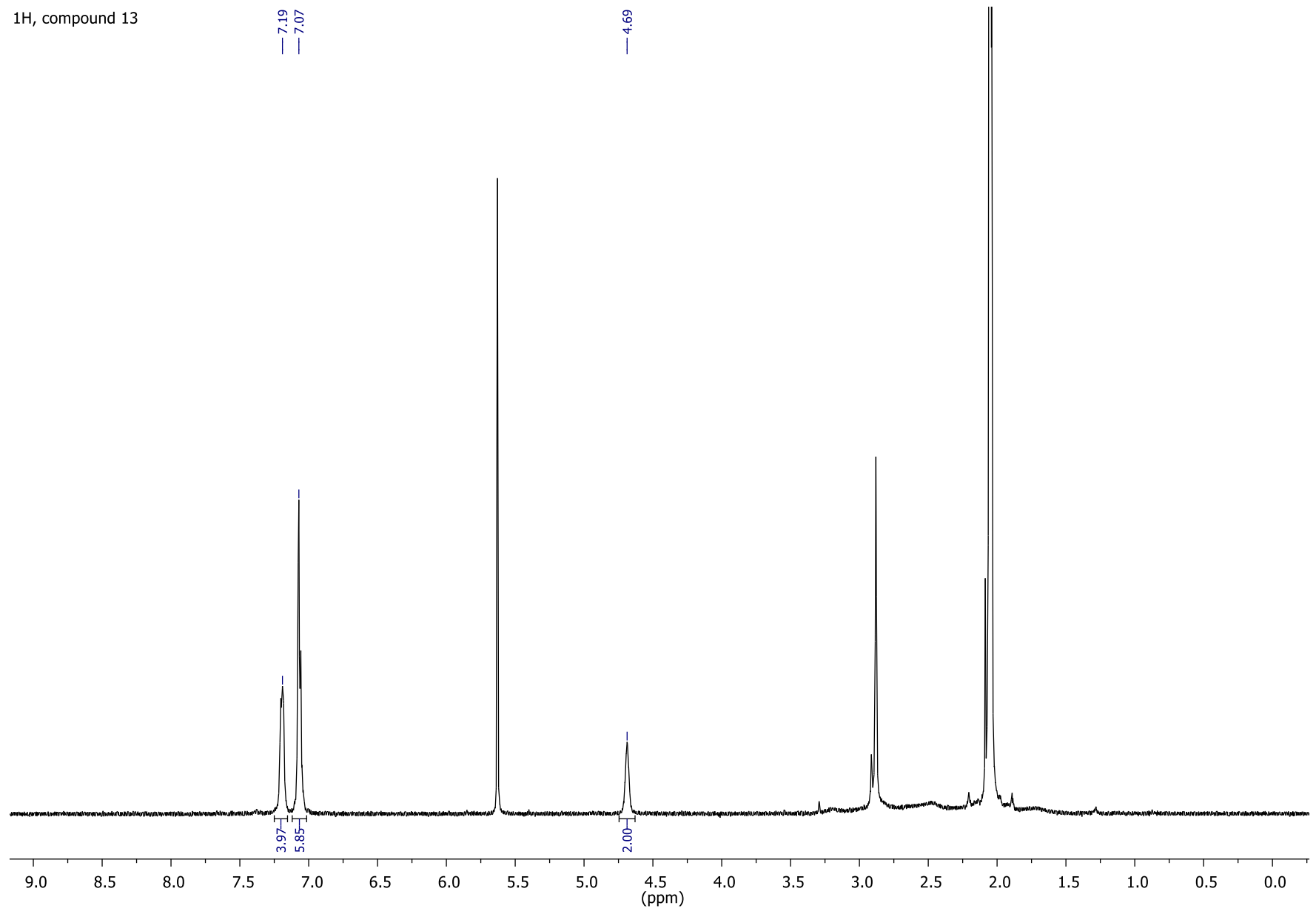
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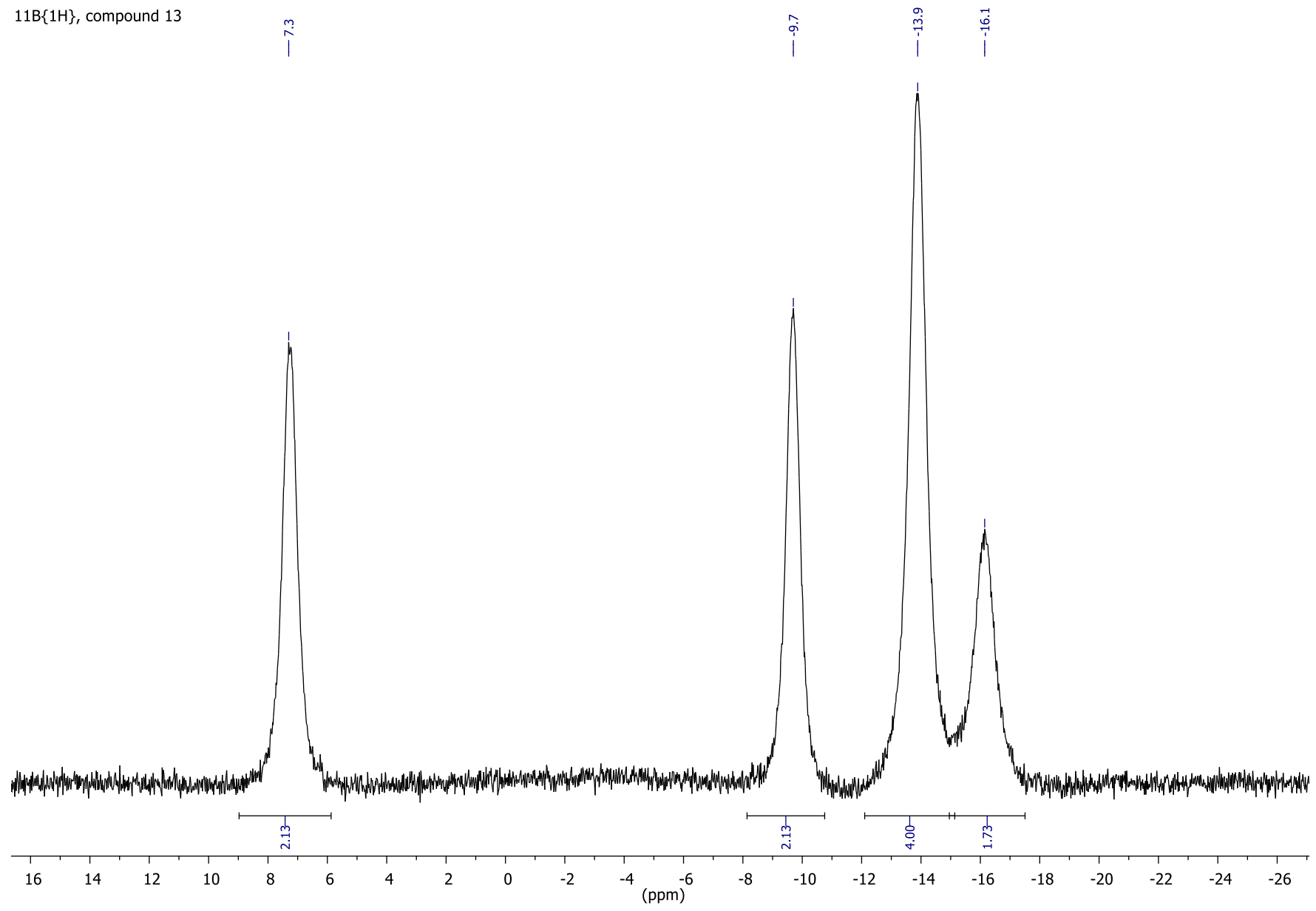




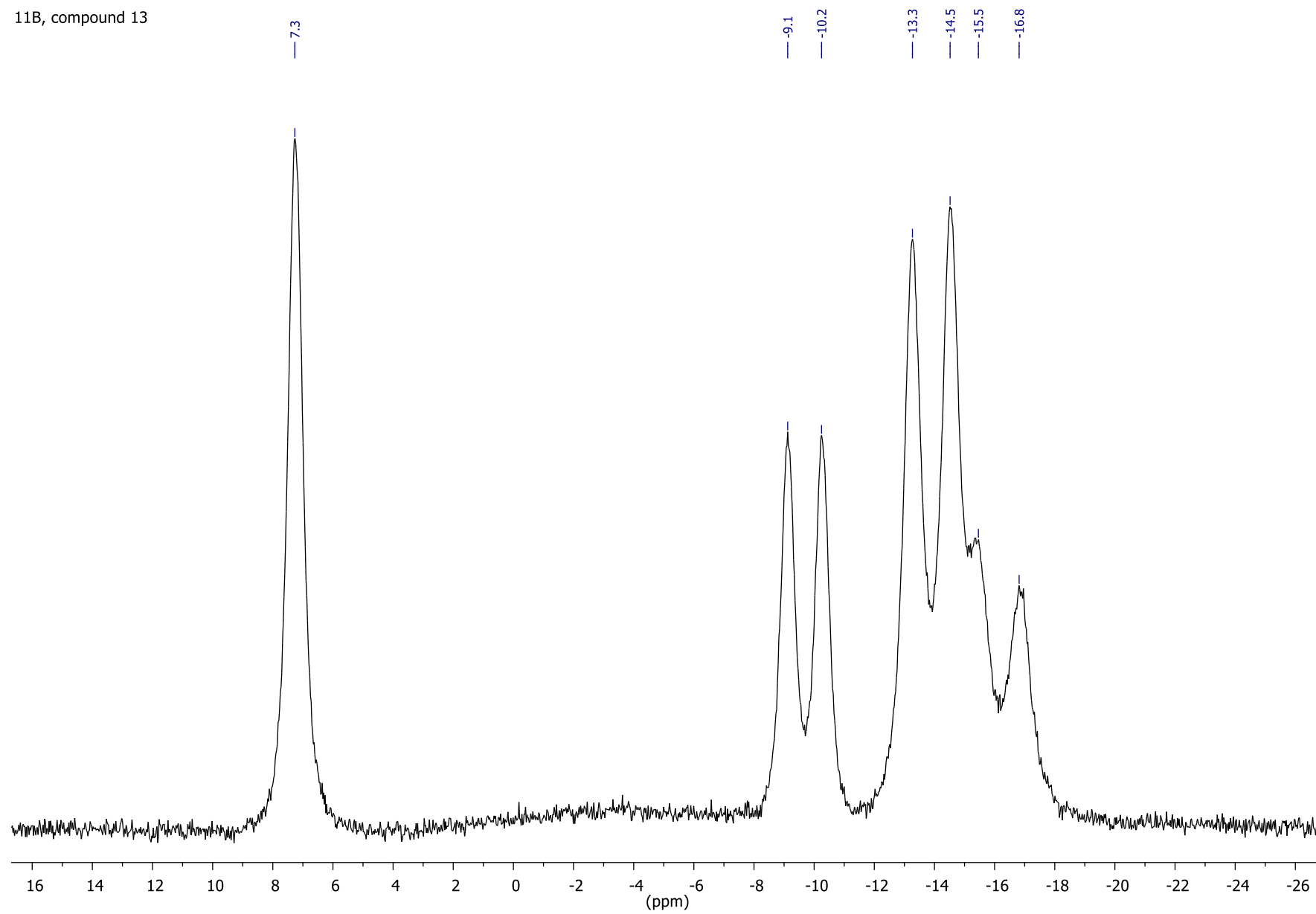
¹H, compound 13



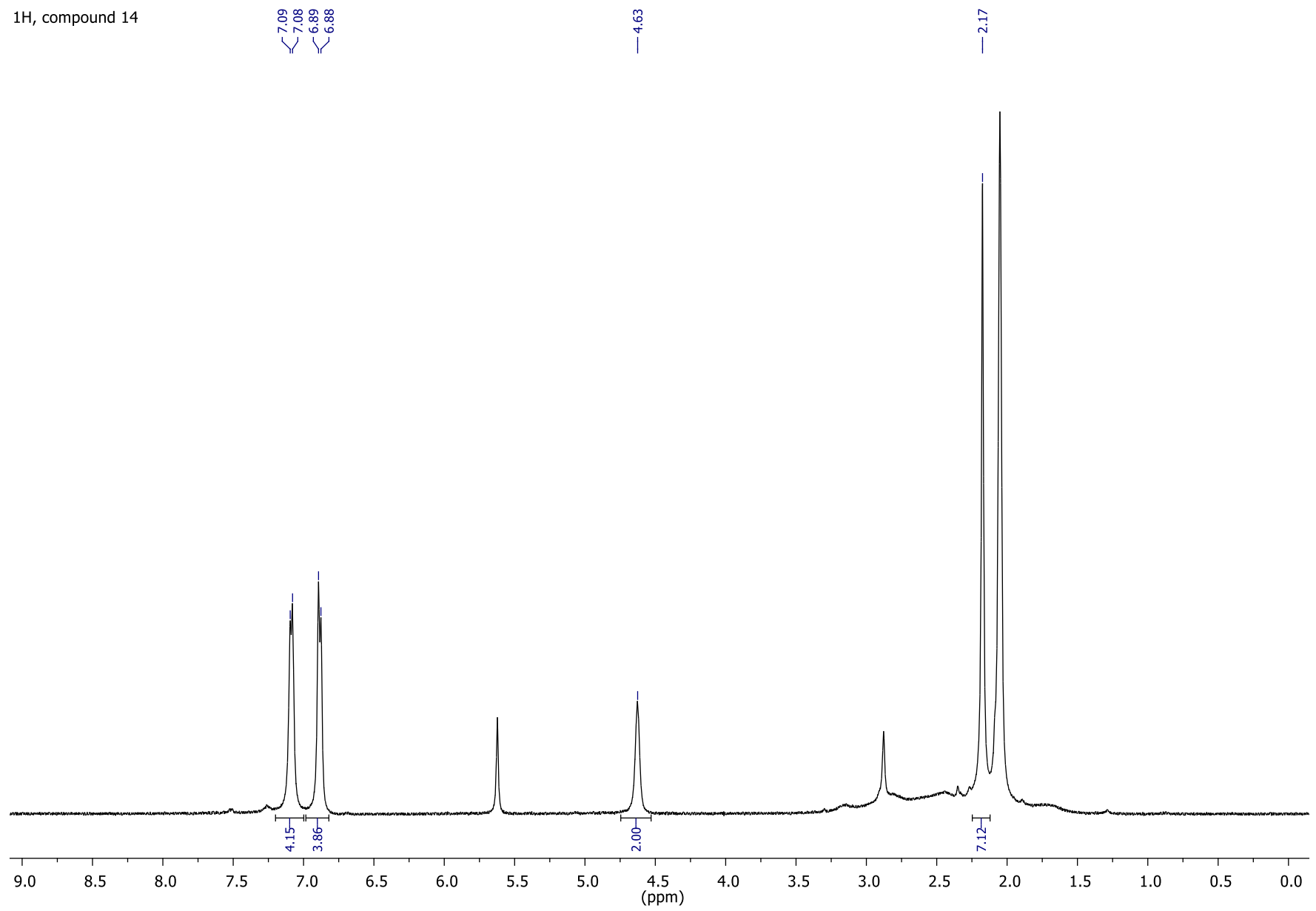
$^{11}\text{B}\{^1\text{H}\}$, compound 13



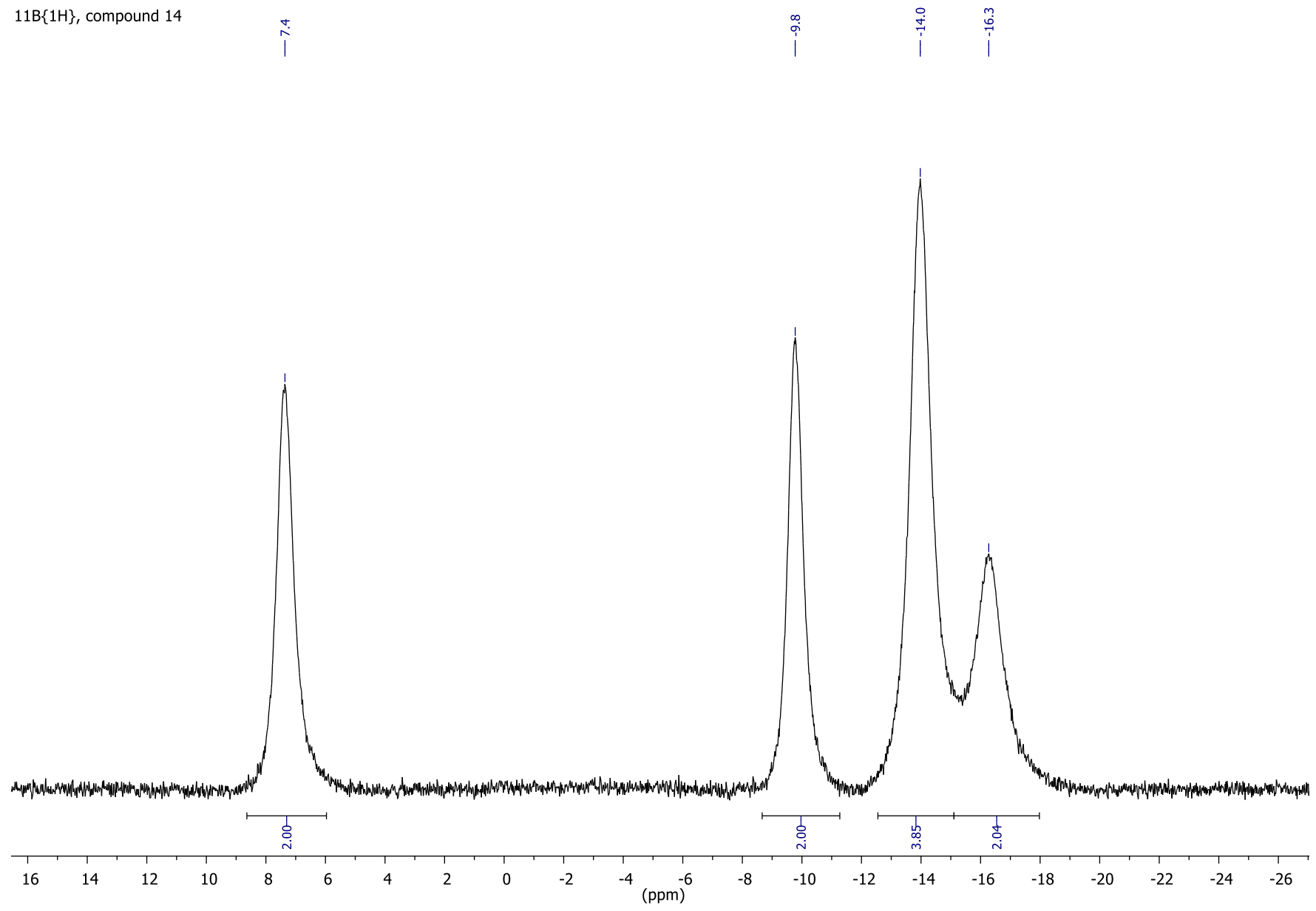
11B, compound 13



¹H, compound 14



$^{11}\text{B}\{^1\text{H}\}$, compound 14



11B, compound 14

