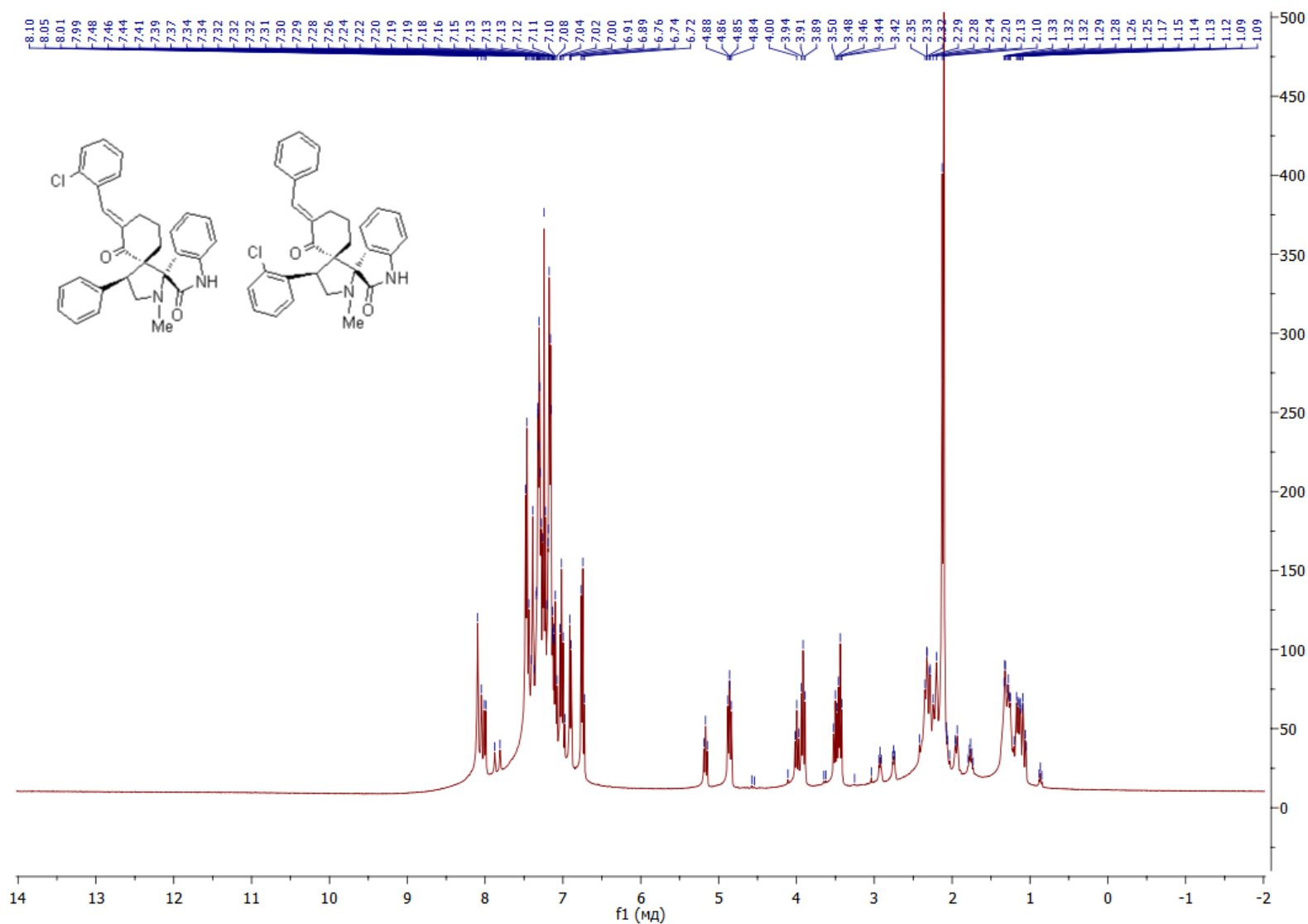
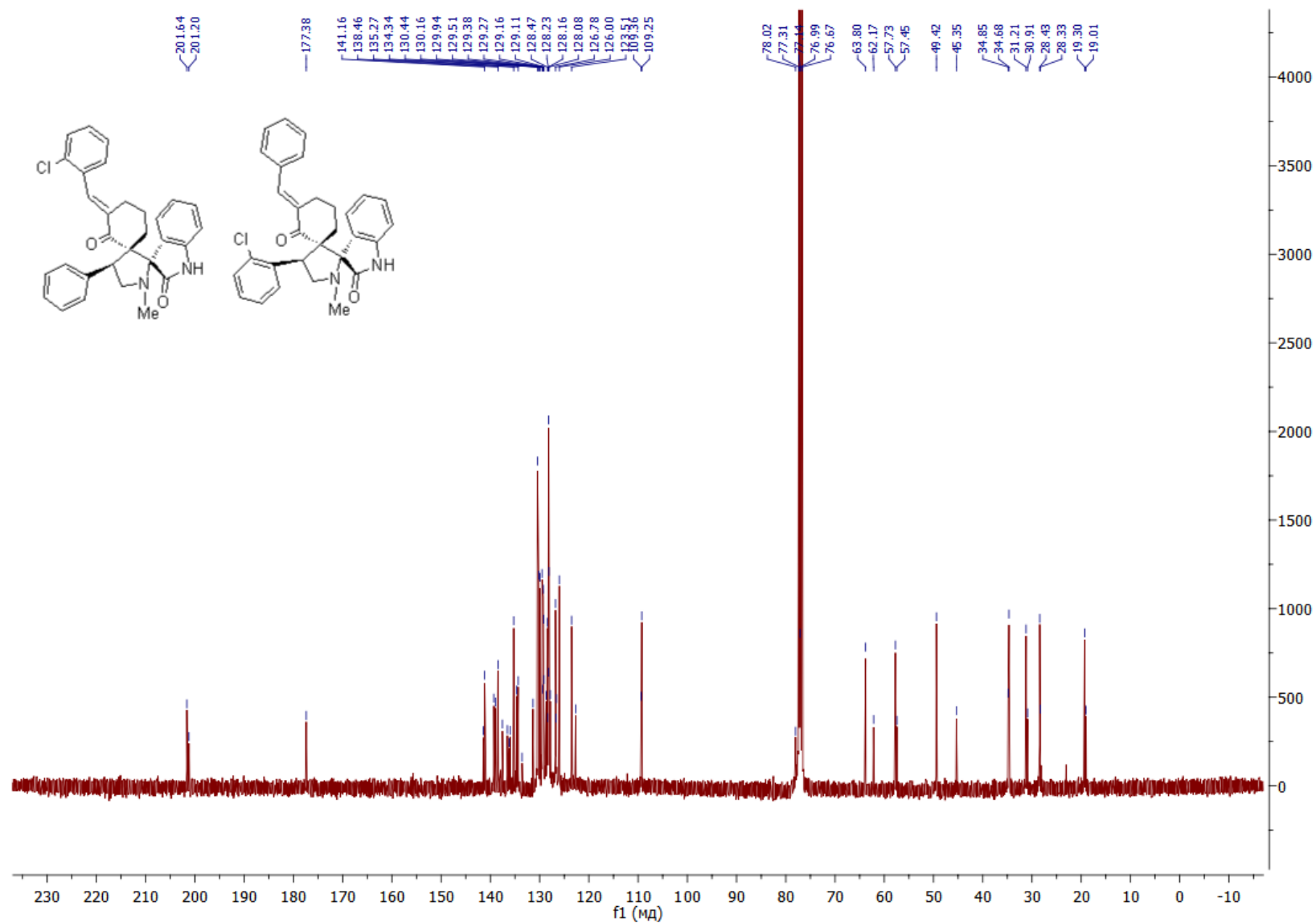
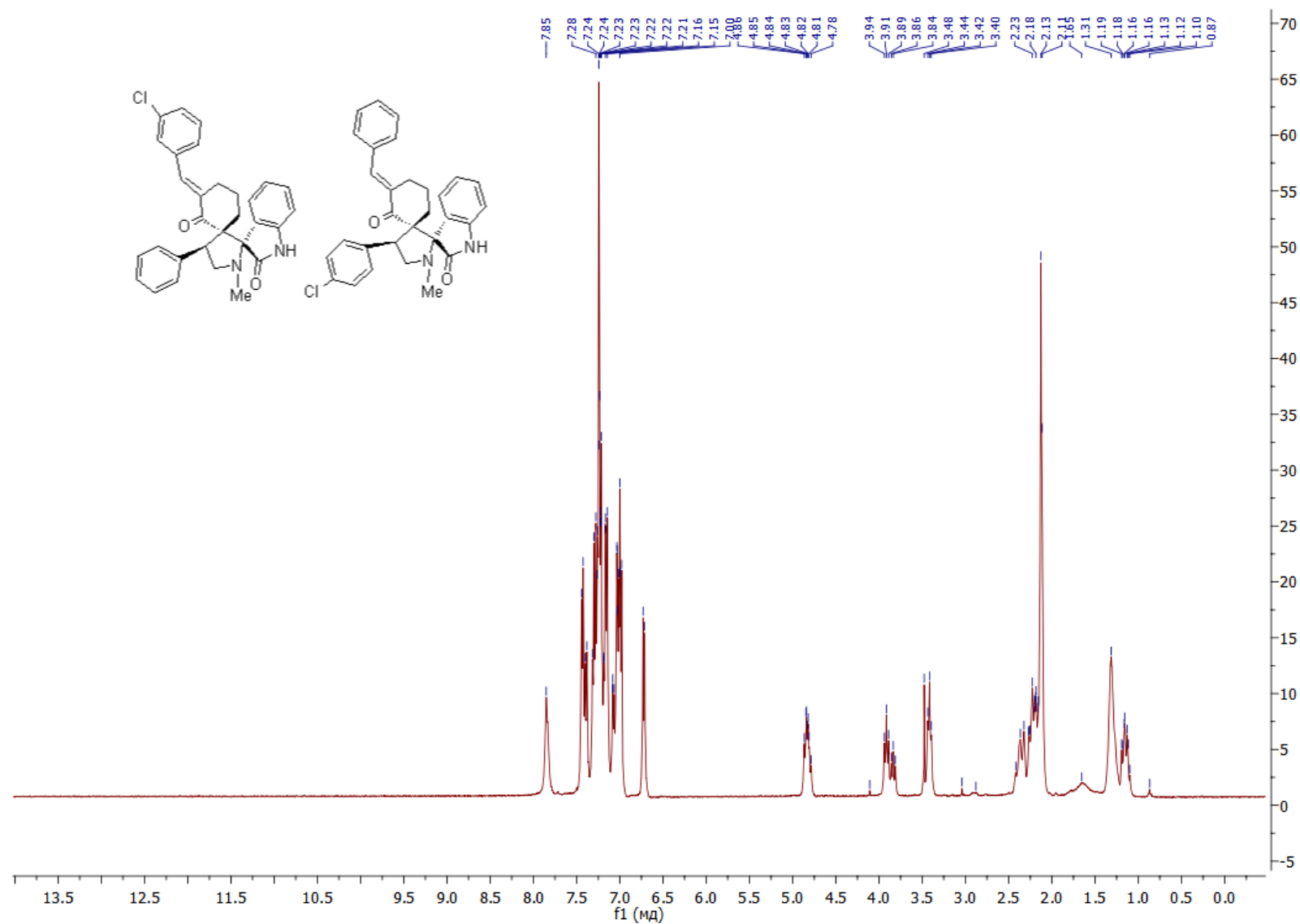




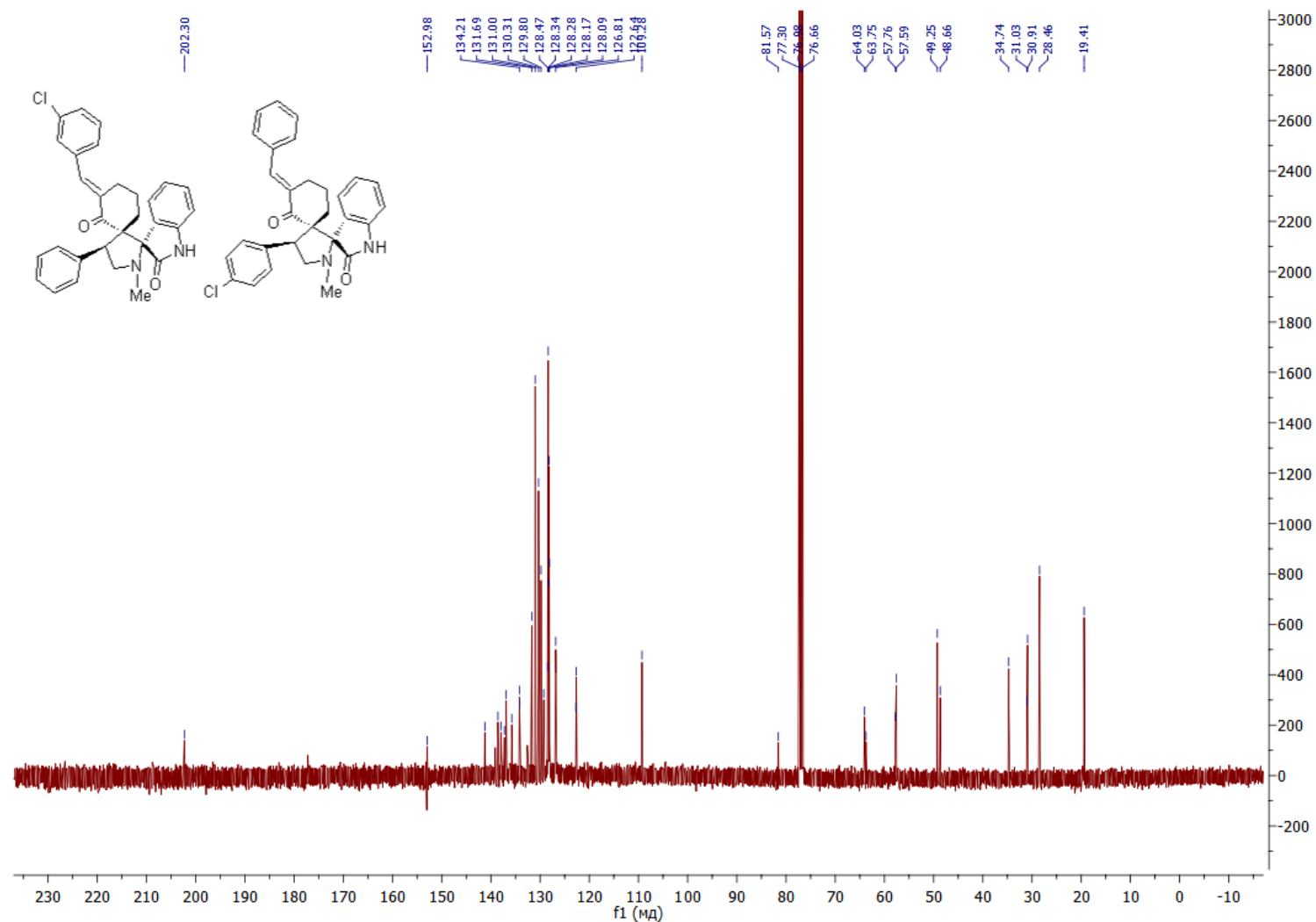
The ¹H NMR 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]611-(2-chlorophenyl)methylidenecyclohexanone-4-phenyl-pyrrolidines and 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]611-phenylmethylidenecyclohexanone-4-(2-chlorophenyl) pyrrolidines (**2** and **3 a**)



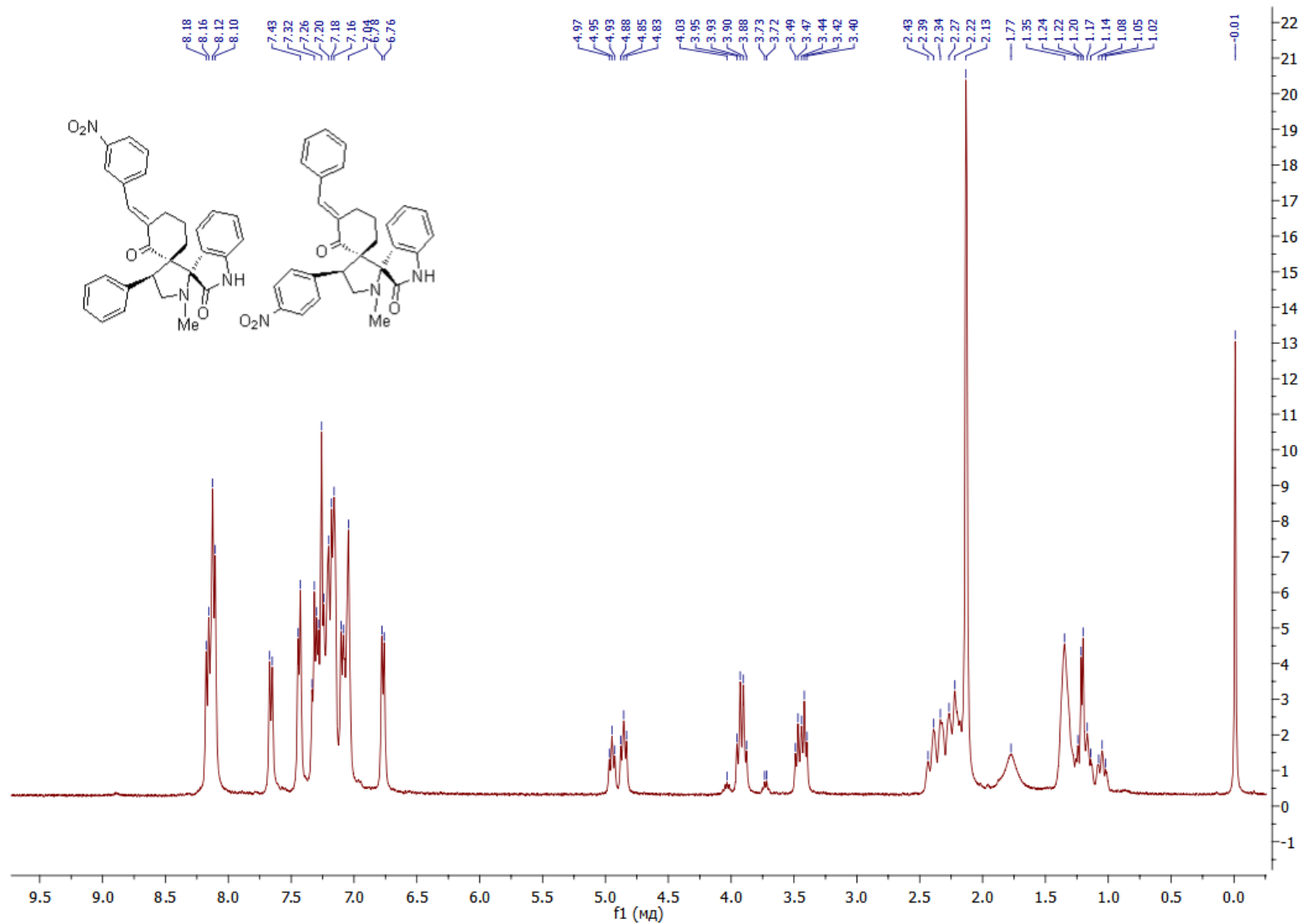
The ¹³C NMR 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]611-(2-chlorophenyl)methylidenecyclohexanone-4-phenyl-pyrrolidines and 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]611-phenylmethylidenecyclohexanone-4- (2-chlorophenyl) pyrrolidines (2 and 3 a)



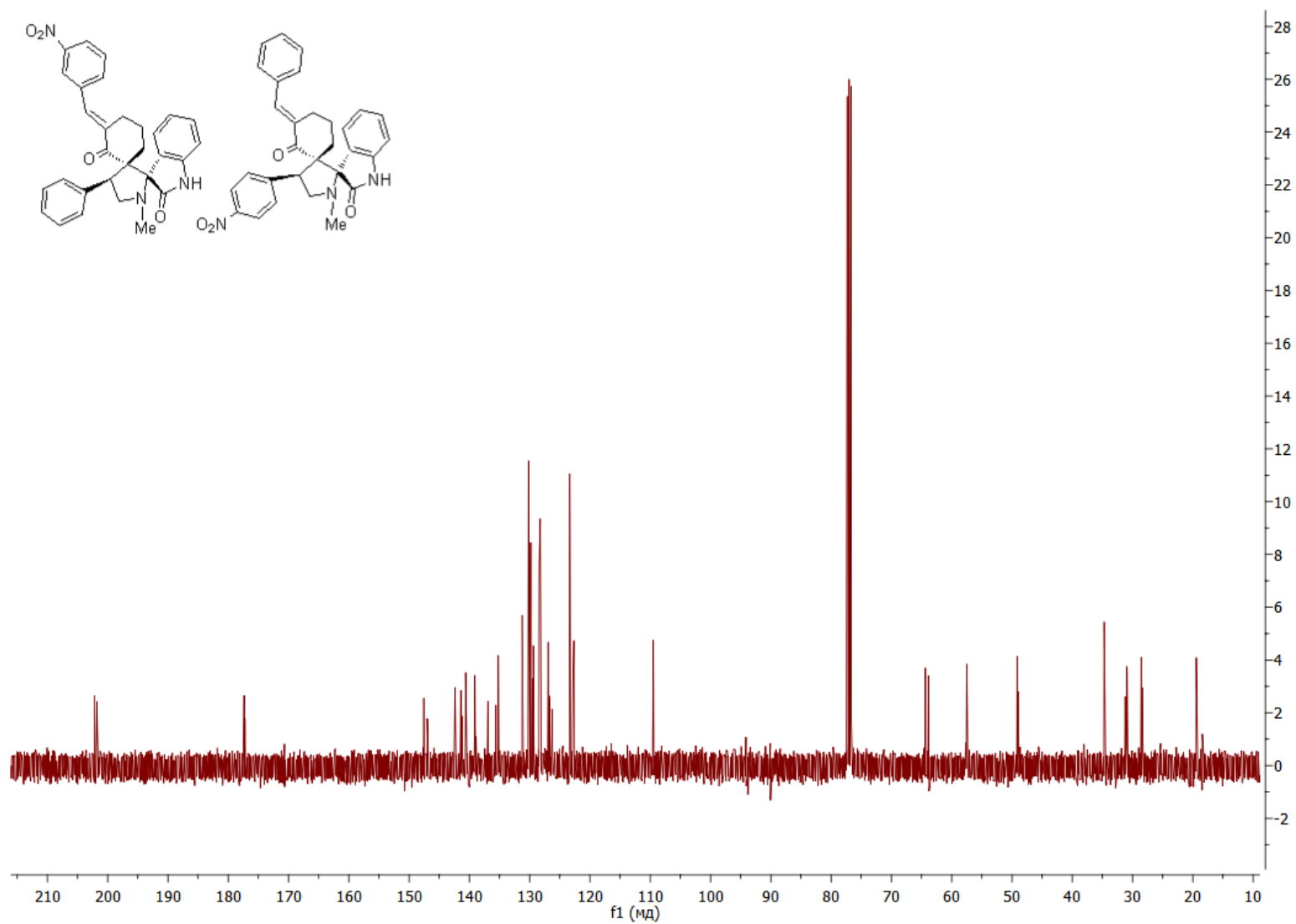
The ^1H NMR 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]611-(4-chlorophenyl)methylidenecyclohexanone-4-phenyl-pyrrolidines and 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]611-phenylmethylidenecyclohexanone-4-(4-chlorophenyl)pyrrolidines (**2** and **3 b**)



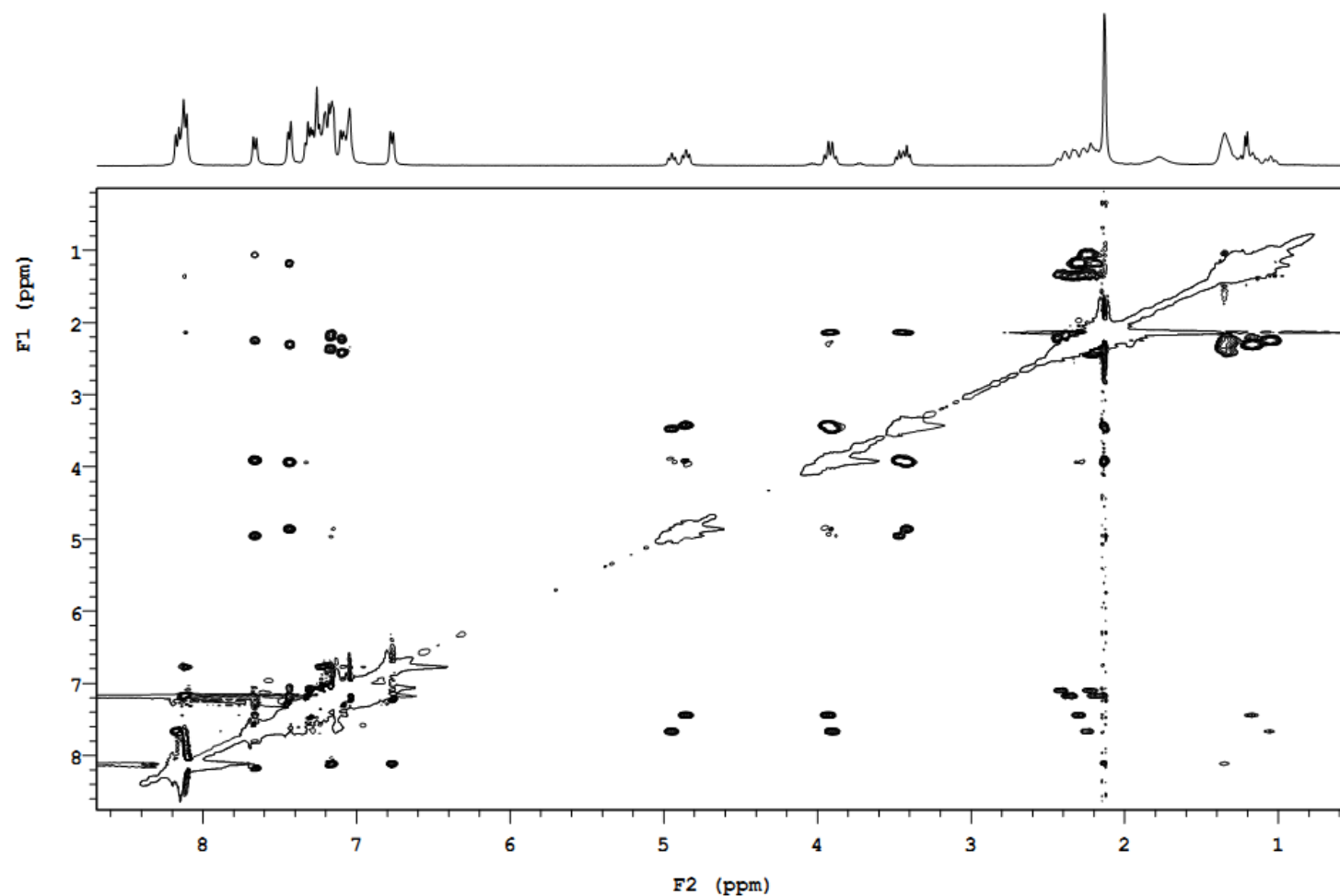
The ¹³C NMR 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]611-(4-chlorophenyl)methylidenecyclohexanone-4-phenylpyrrolidines and 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]611-phenylmethylidenecyclohexanone-4-(4-chlorophenyl)pyrrolidines (**2** and **3 b**)



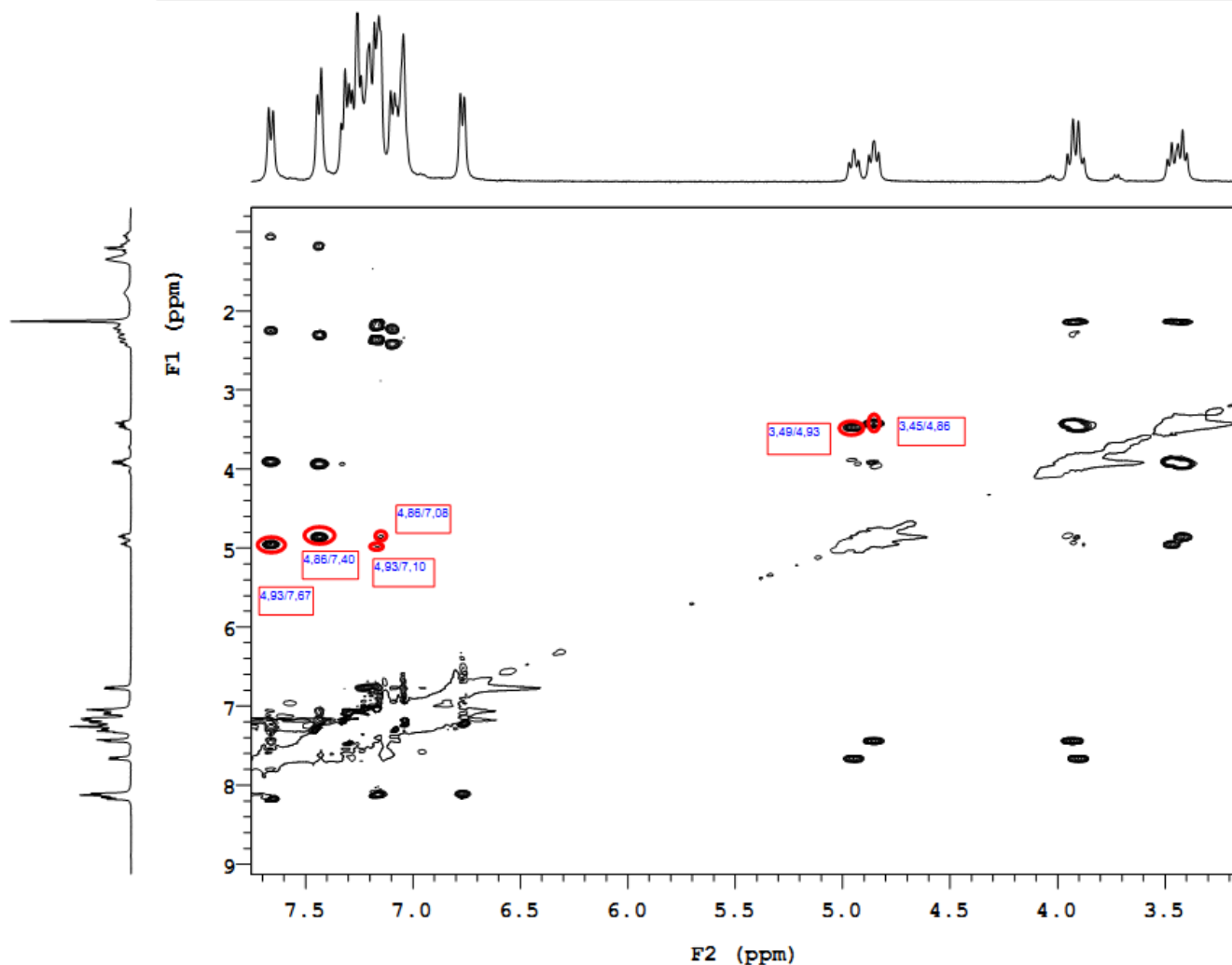
The ^1H NMR 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-(4-nitrophenyl)methylidenecyclohexanone-4-phenyl-pyrrolidines and 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-phenylmethylidenecyclohexanone-4-(4-nitrophenyl)-pyrrolidines (2 and 3 c)



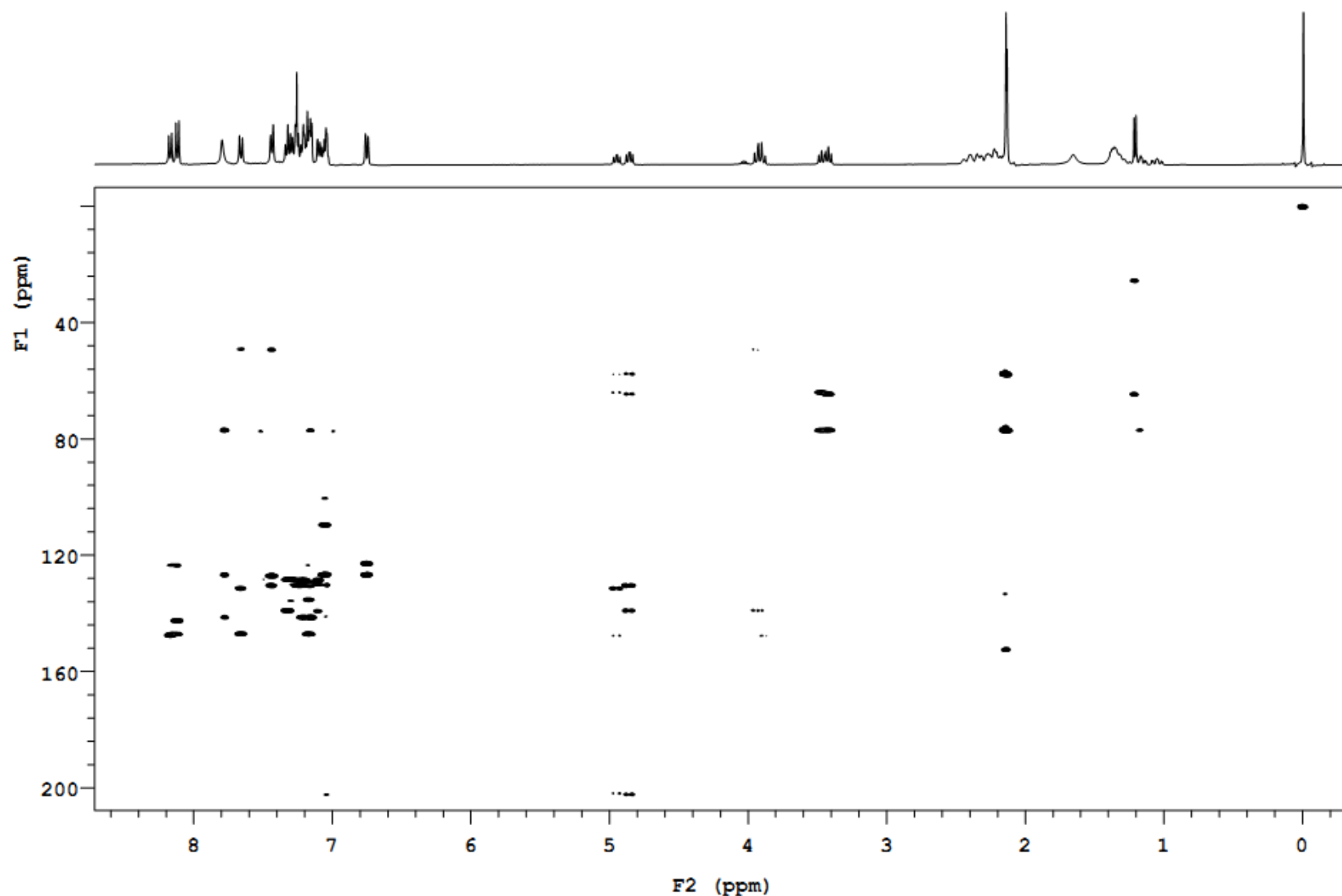
The ^{13}C NMR 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-(4-nitrophenyl)methylidenecyclohexanone-4-phenyl-pyrrolidines and 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-phenylmethylidenecyclohexanone-4-(4-nitrophenyl)-pyrrolidines (**2** and **3 c**)



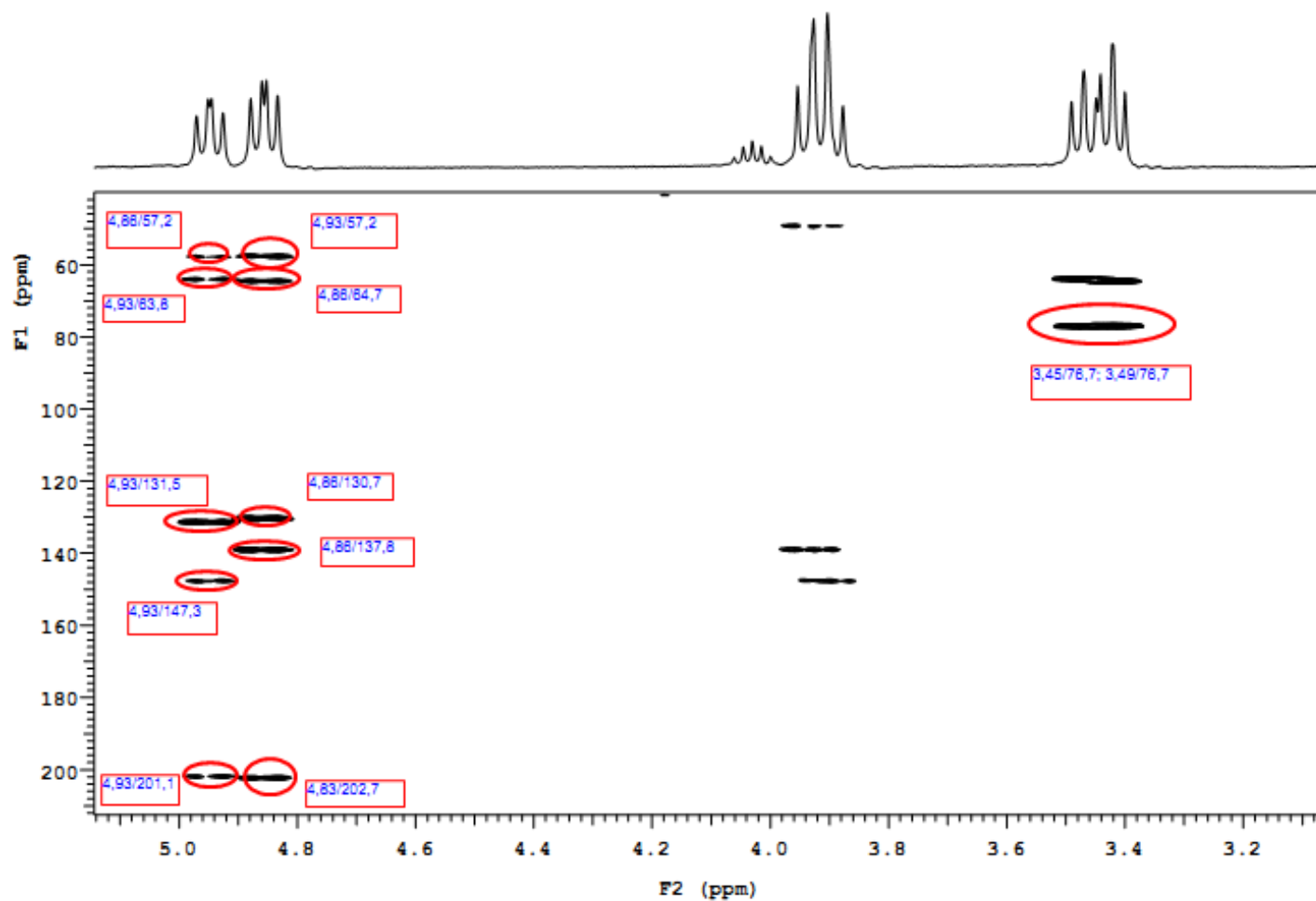
The NOESY spectrum of 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-(4-nitrophenyl)methylidenecyclohexanone-4-phenyl-pyrrolidines and 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-phenylmethylidenecyclohexanone-4- (4-nitrophenyl) -pyrrolidines (2 and 3 c)



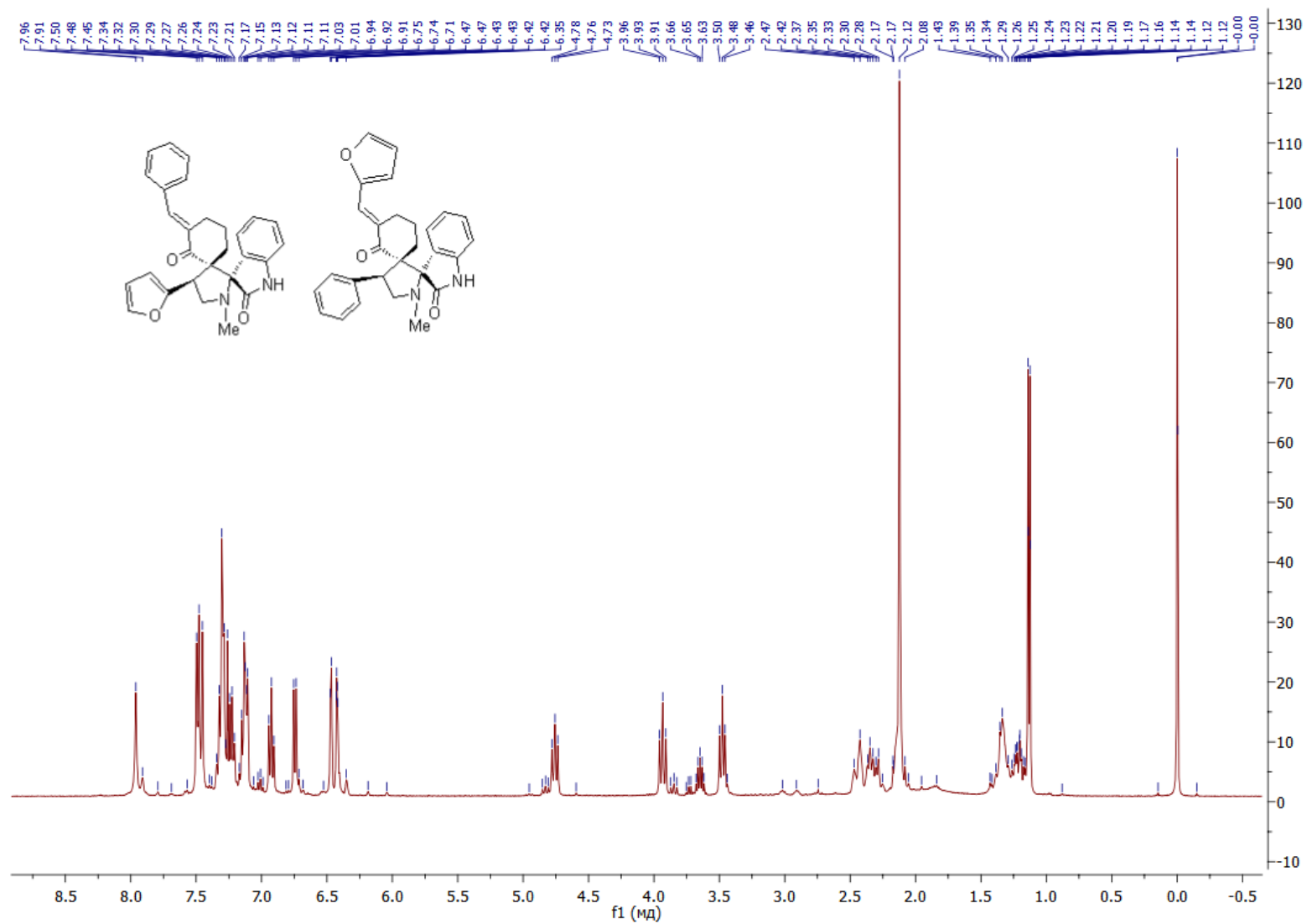
The detailed NOESY spectrum of 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-(4-nitrophenyl)methylidenecyclohexanone-4-phenylpyrrolidines and 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-phenylmethylidenecyclohexanone-4-(4-nitrophenyl)-pyrrolidines (2 and 3 c)



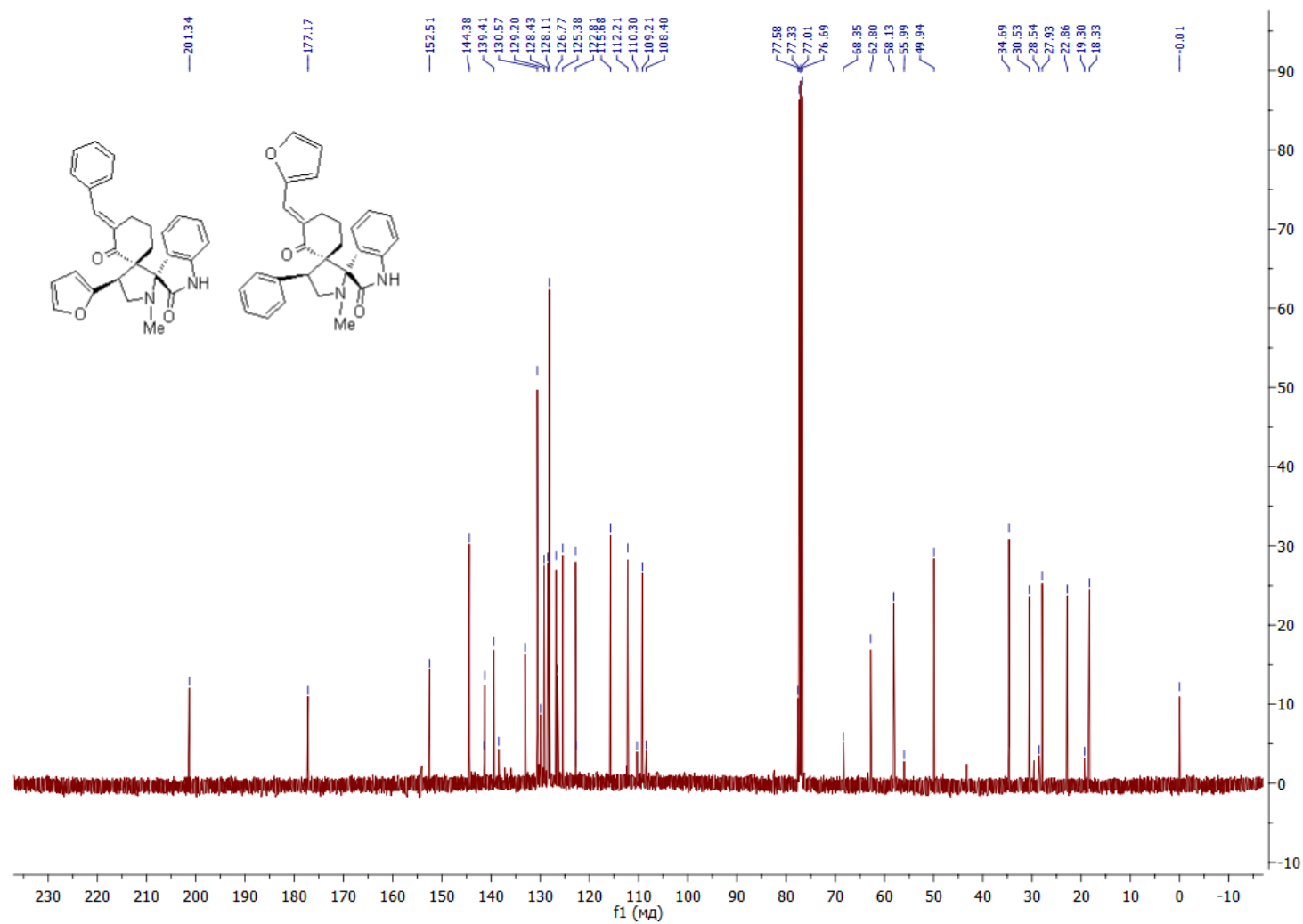
The ^1H - ^{13}C HMBC spectrum of 1-N-methyl-spiro[2.3]oxindole-spiro[3.2] 11 6 11 -(4-nitrophenyl)methylidenecyclohexanone-4-phenyl-pyrrolidines and 1-N-methyl-spiro[2.3]oxindole-spiro[3.2] 11 6 11 -phenylmethylidenecyclohexanone-4-(4-nitrophenyl)-pyrrolidines (2 and 3 c)



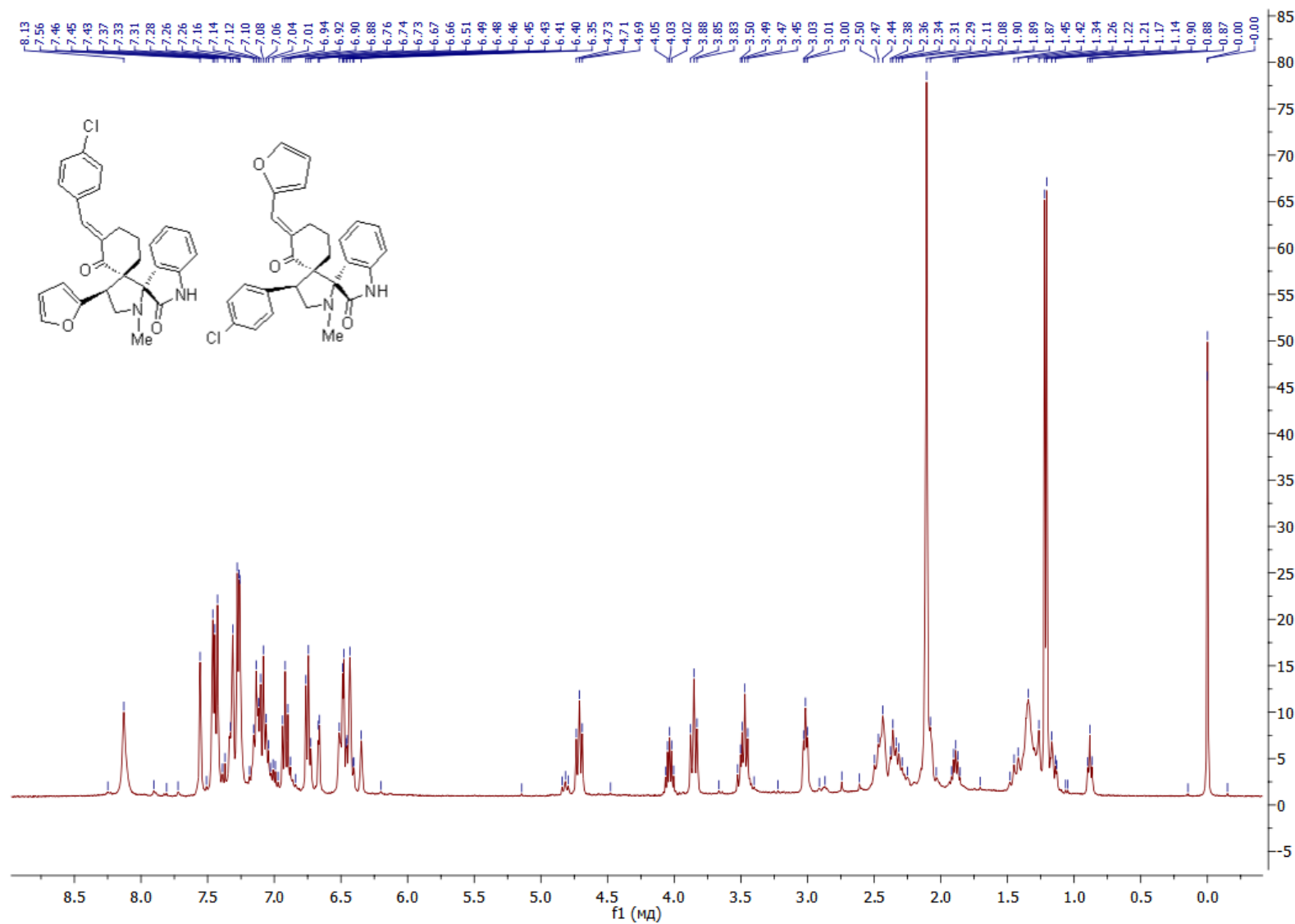
The detailed $^1\text{H}/^{13}\text{C}$ HMBC spectrum of 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-(4-nitrophenyl)methylidenecyclohexanone-4-phenylpyrrolidines and 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-phenylmethylidenecyclohexanone-4-(4-nitrophenyl)-pyrrolidines (2 and 3 c)



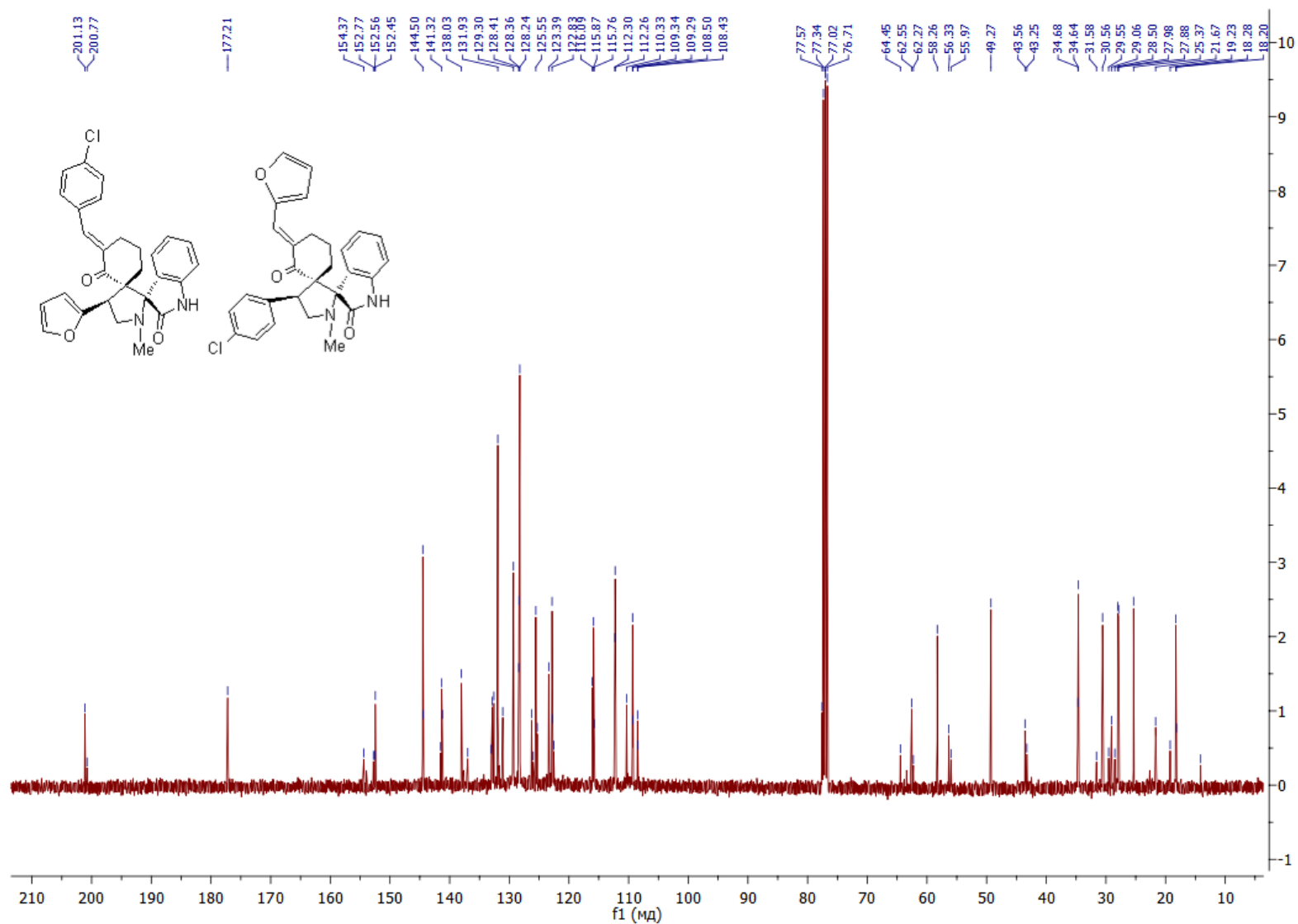
The ^1H NMR 1-N-methyl-spiro[2.3]oxindole-spiro[3.2]⁶¹¹-2-furylmethylidenecyclohexanone-4-phenyl-pyrrolidines and 1-N-methyl-spiro[2.3]oxindole-spiro[3.2]⁶¹¹-phenylmethylidenecyclohexanone-4-2-furylpyrrolidines (**3** and **4 d**)



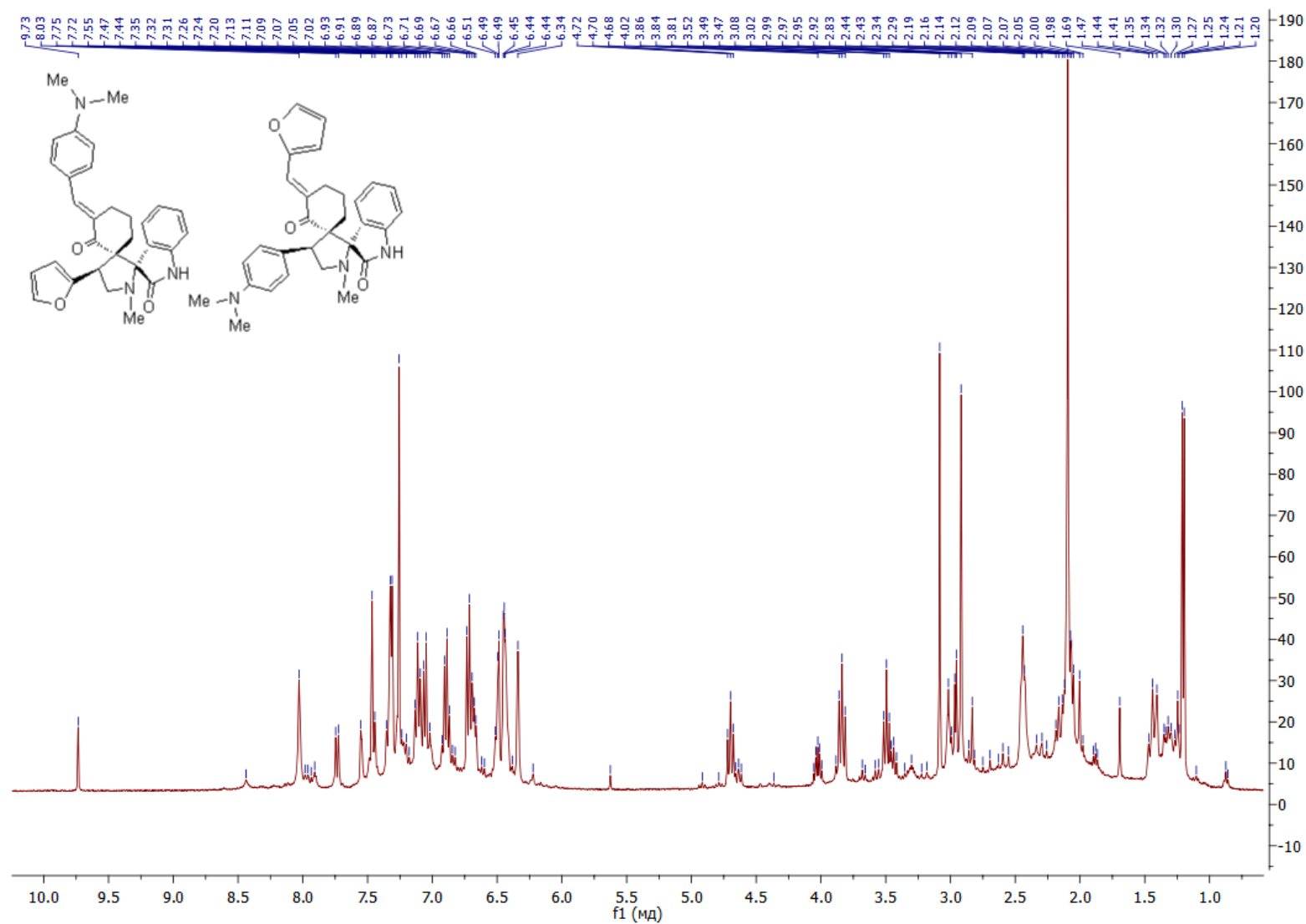
The ¹³C NMR 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-2-furylmethylidenecyclohexanone-4-phenyl-pyrrolidines and 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-phenylmethylidenecyclohexanone-4-2-furylpyrrolidines (**3** and **4 d**)



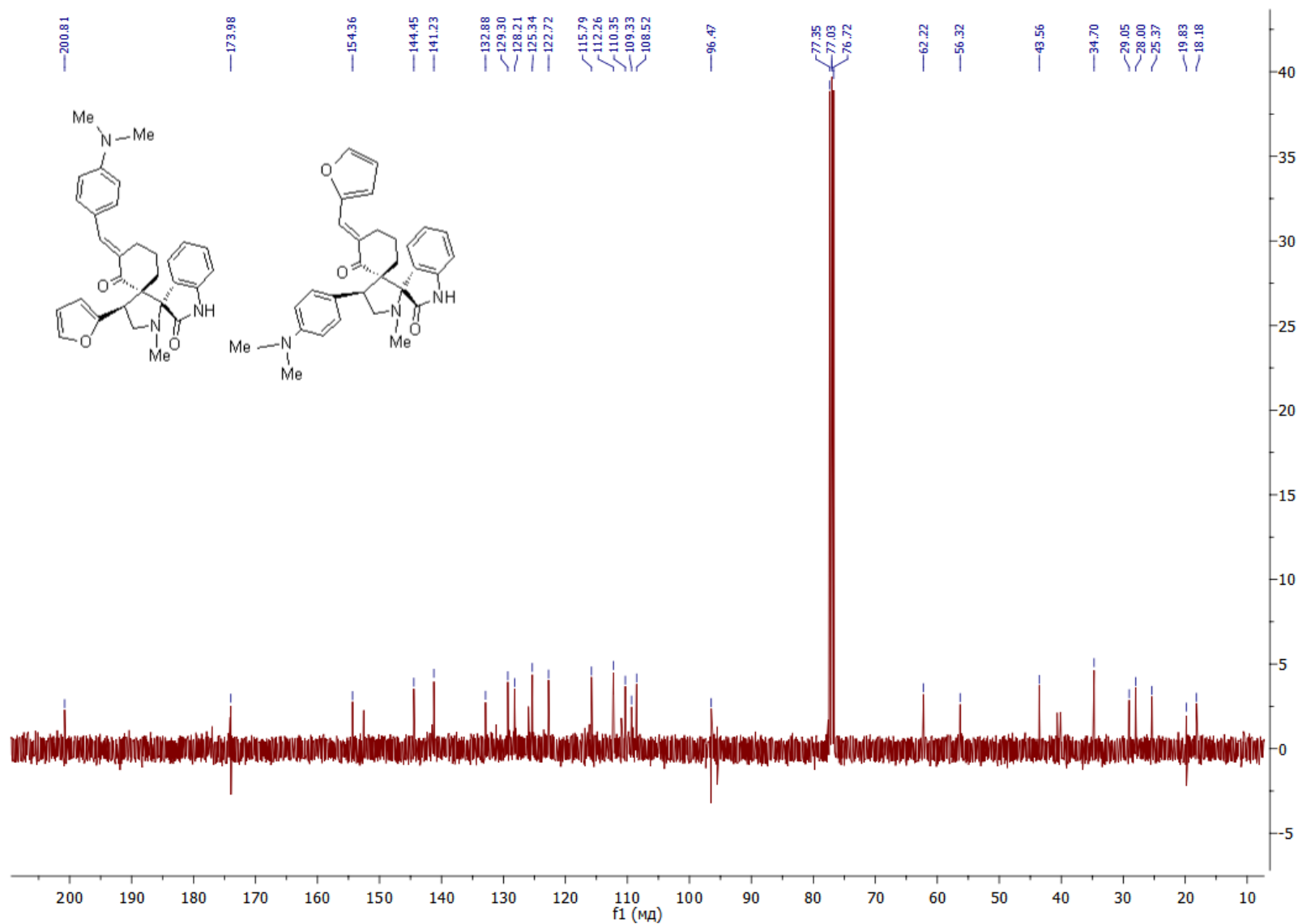
The ¹H NMR 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-2-furylmethylidenecyclohexanone-4-4-chlorophenyl-pyrrolidines and 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹--4-chlorophenylmethylidenecyclohexanone- 4-2-furypyrrolidines (3 and 4 e)

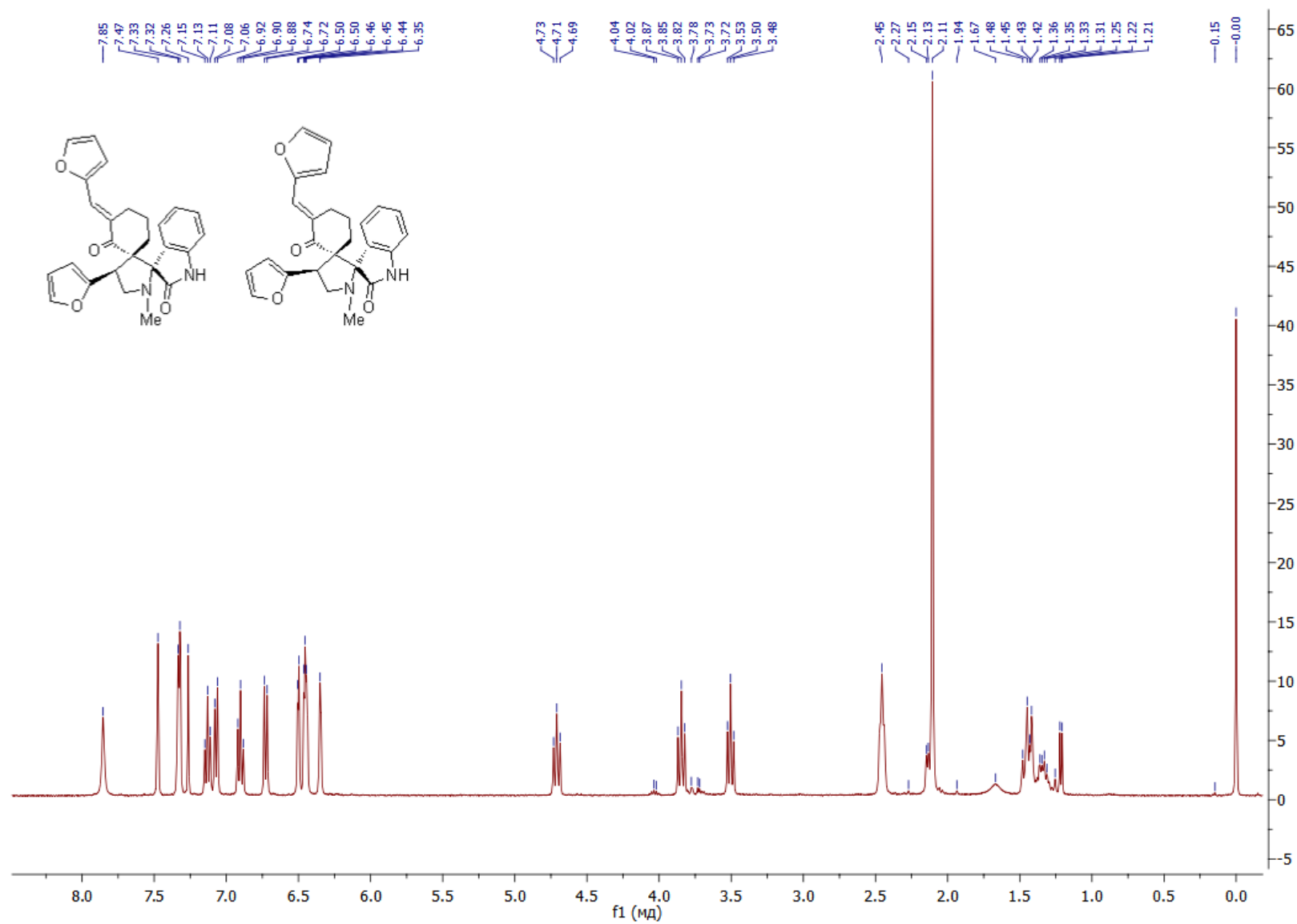


The ^{13}C NMR 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-2-furylmethylidenecyclohexanone-4-4-chlorophenyl-pyrrolidines and 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹--4-chlorophenylmethylidenecyclohexanone-4-2-furypyrrolidines (**3** and **4 e**)

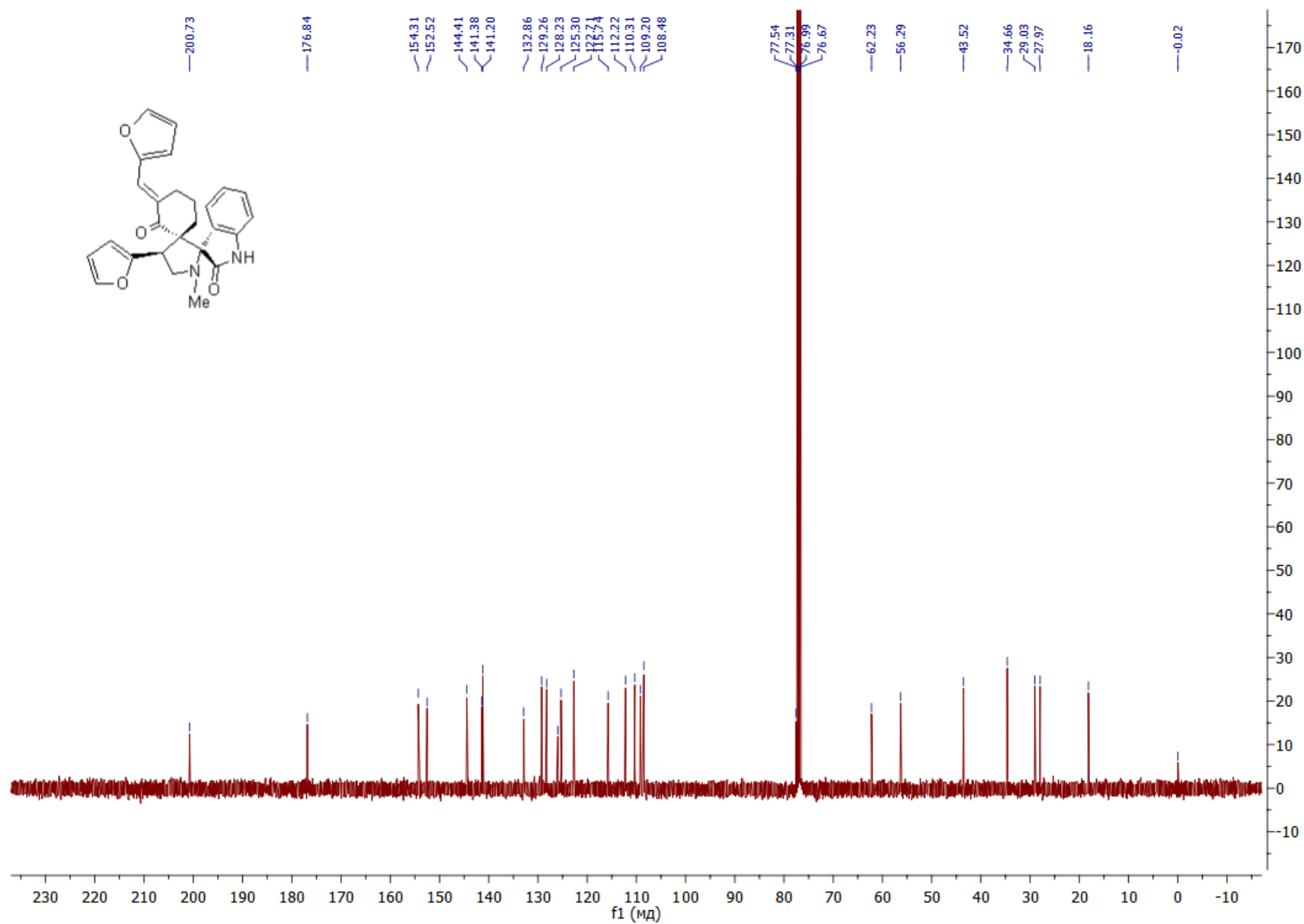


The ¹H NMR 1-N-methyl-spiro[2.31]oxindole-spiro[3.211]611-2-furylmethylidenecyclohexanone-4-4-N,N-(dimethyl)phenyl-pyrrolidines and 1-N-methyl-spiro[2.31]oxindole-spiro[3.211]611--4-N,N-(dimethyl)phenylmethylidenecyclohexanone- 4-2-furylpyrrolidines (**2** and **3 f**)

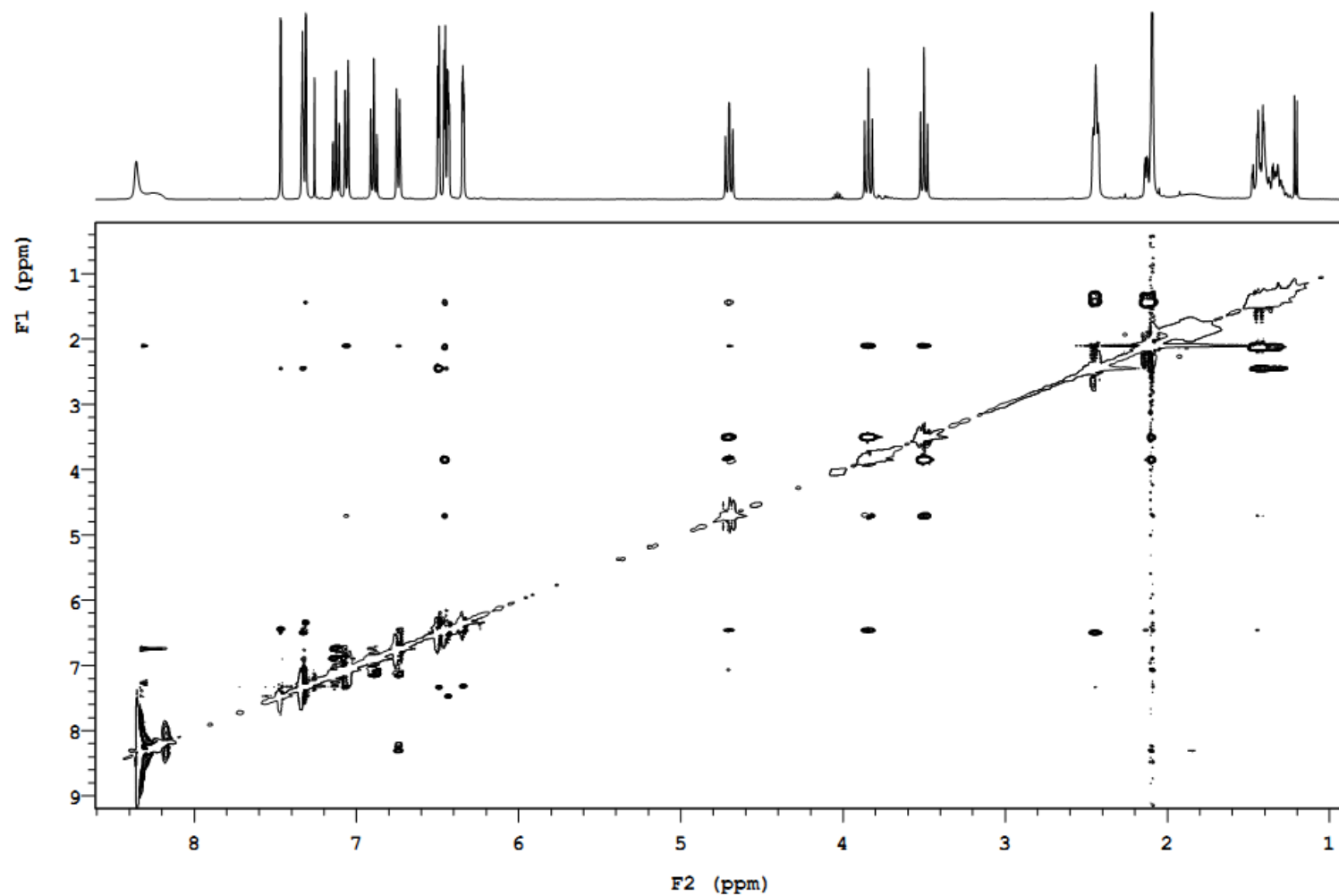




The ¹H NMR 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-2-furylmethylenecyclohexanone-4-2-furylpyrrolidines (3g)



The ¹³C NMR 1-N-methyl-spiro[2.3]¹oxindole-spiro[3.2]¹¹6¹¹-2-furylmethylenecyclohexanone-4-2-furylpyrrolidines (**3f**)



The NOESY spectrum 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-2-furylmethylenecyclohexanone-4-2-furylpyrrolidines (**3f**)

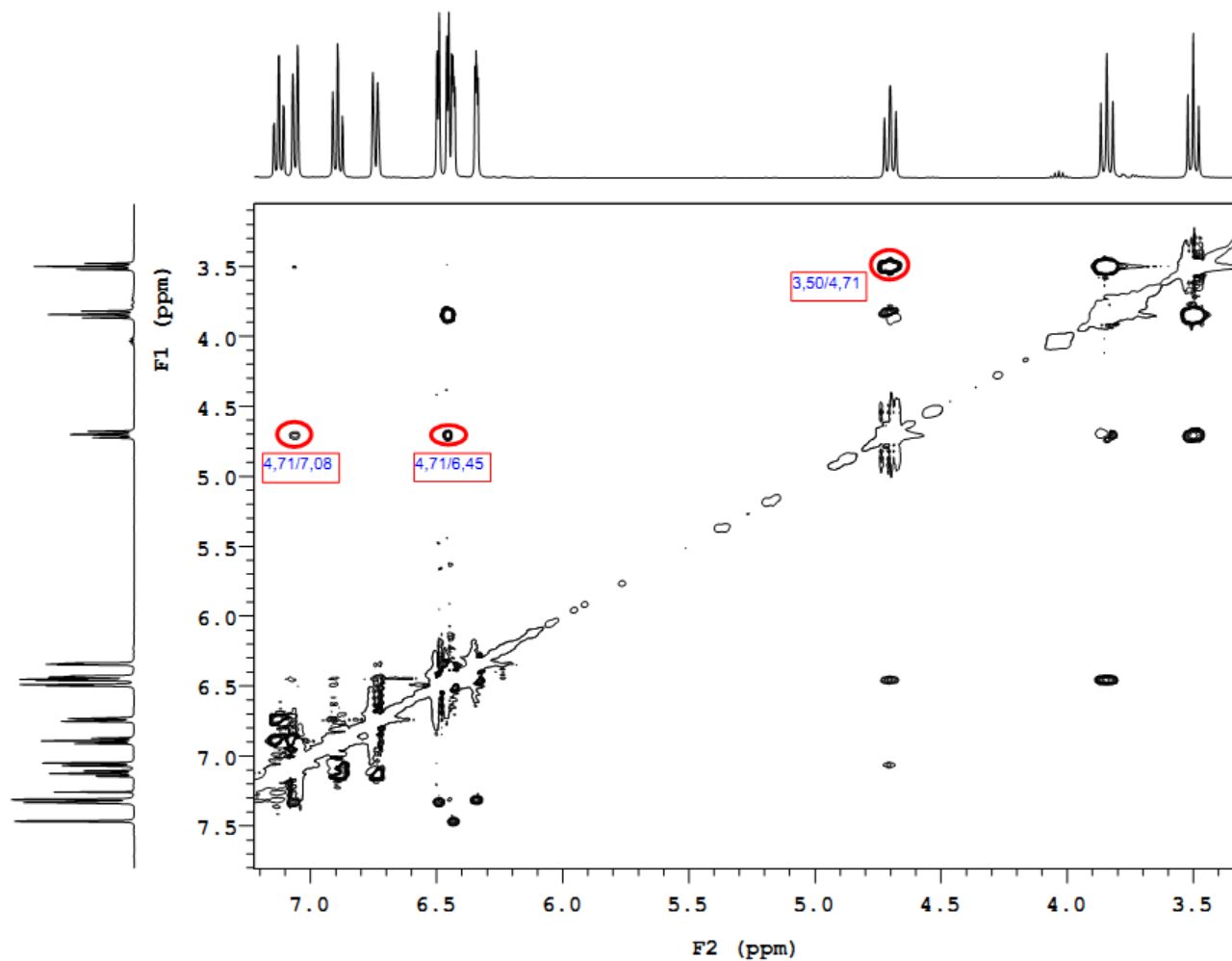
Tumskil_Fu_fu

Sample Name Tumskil_Fu_fu
Date collected 2017-10-12

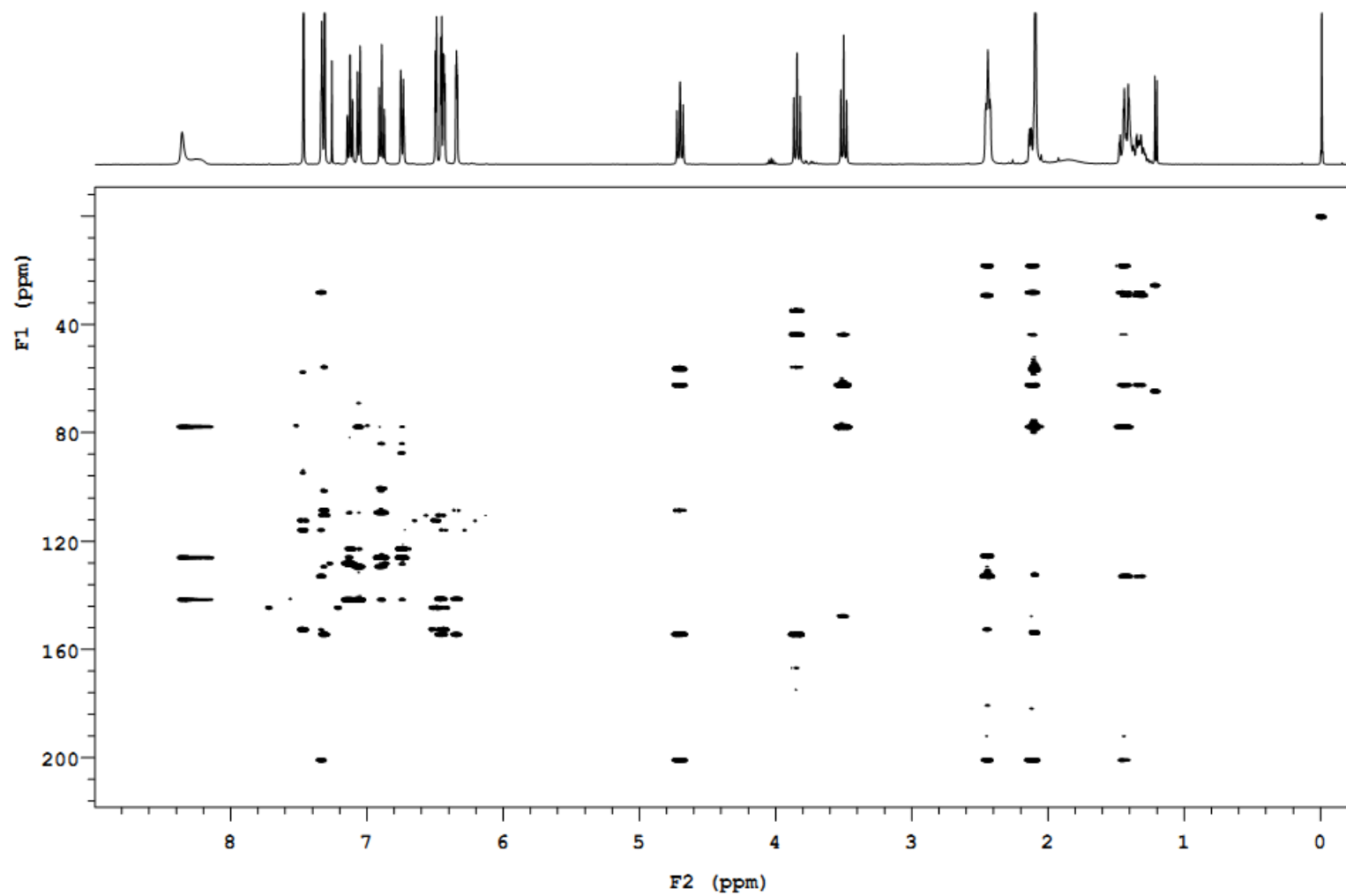
Pulse sequence NOESY
Solvent cdcl3

Temperature 25
Spectrometer vnmrs400-vnmrs400

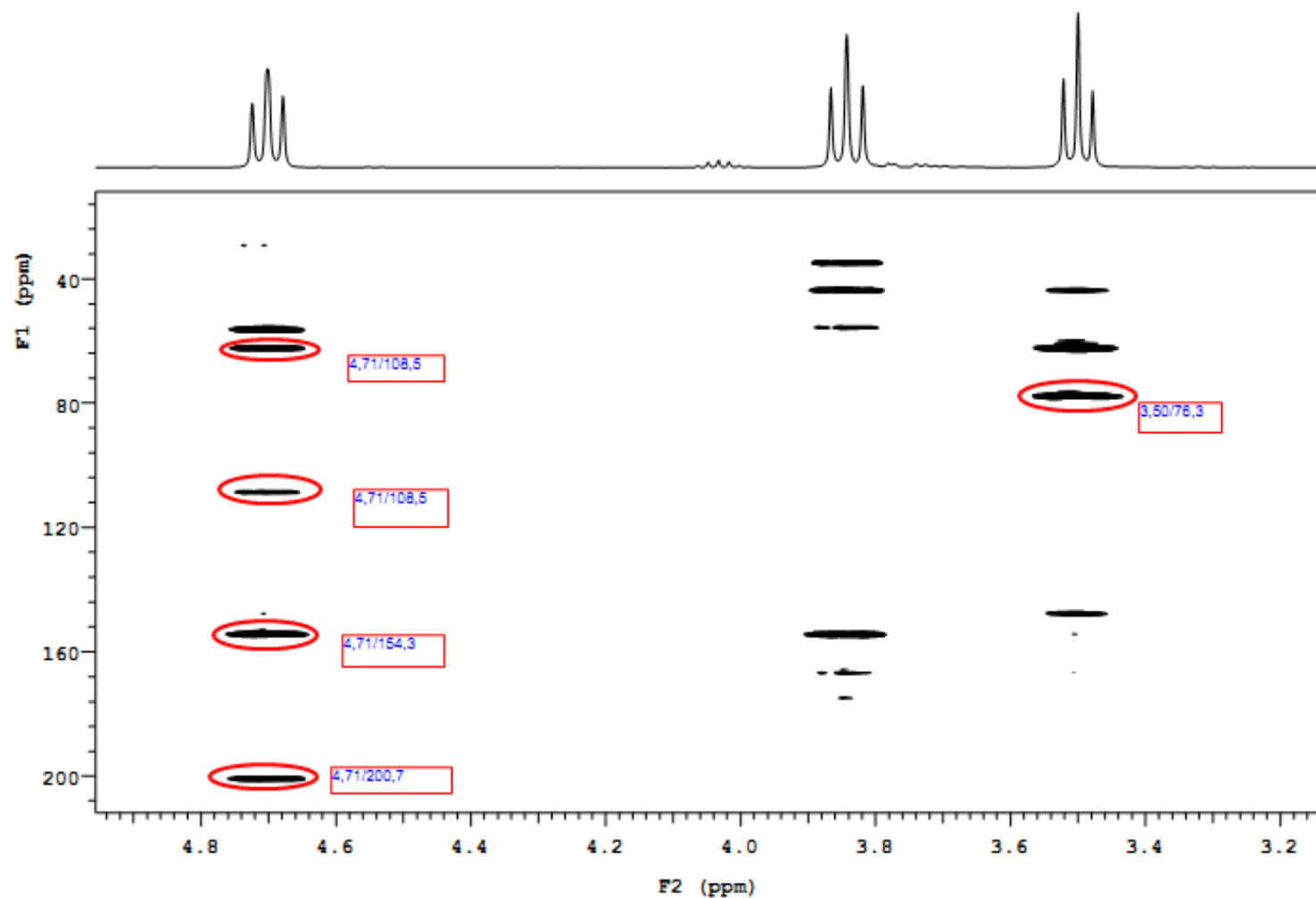
Study owner vnmr1
Operator vnmr1



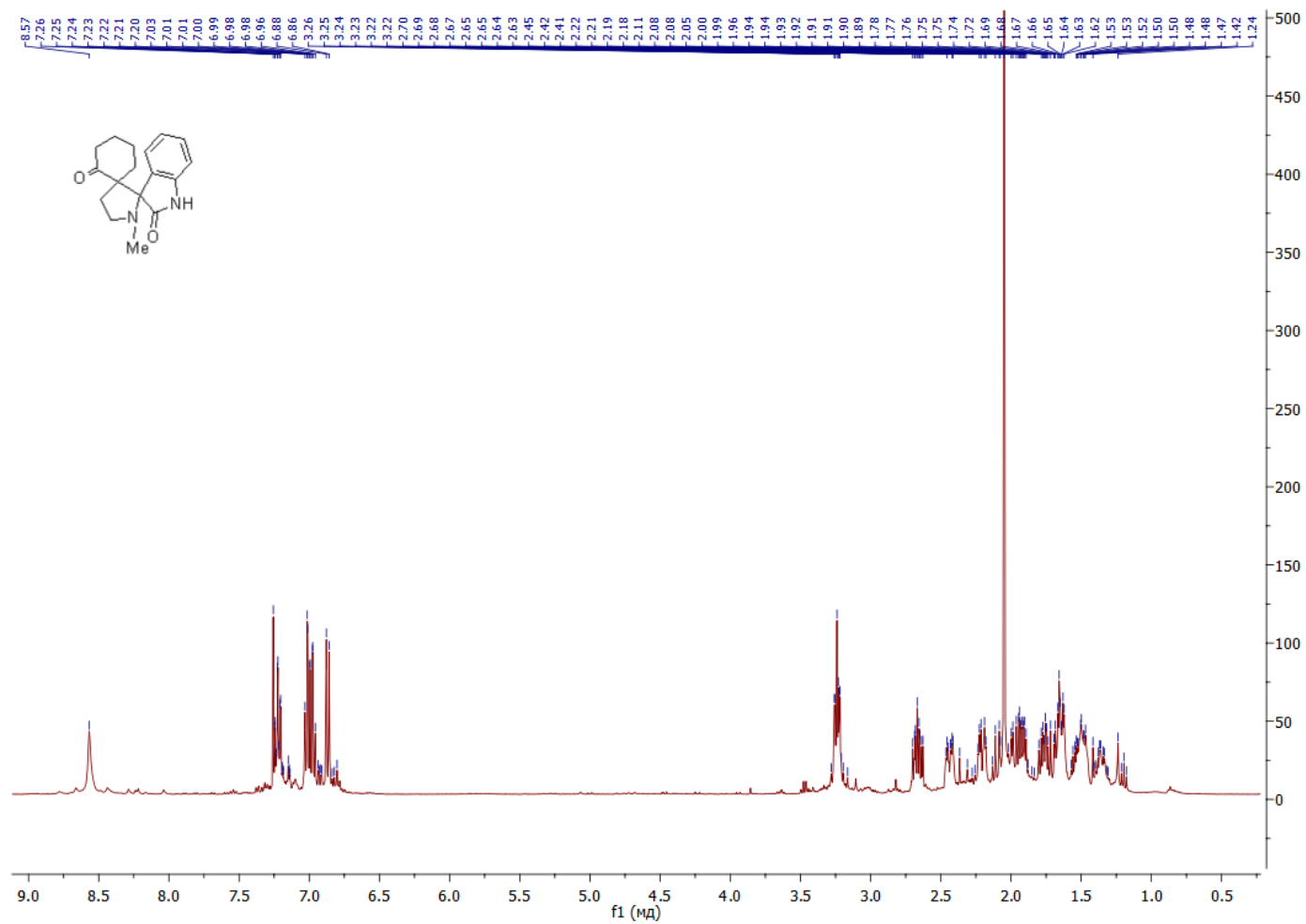
The detailed NOESY spectrum 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-2-furylmethylidenecyclohexanone-4-2-furylpyrrolidines (3f)

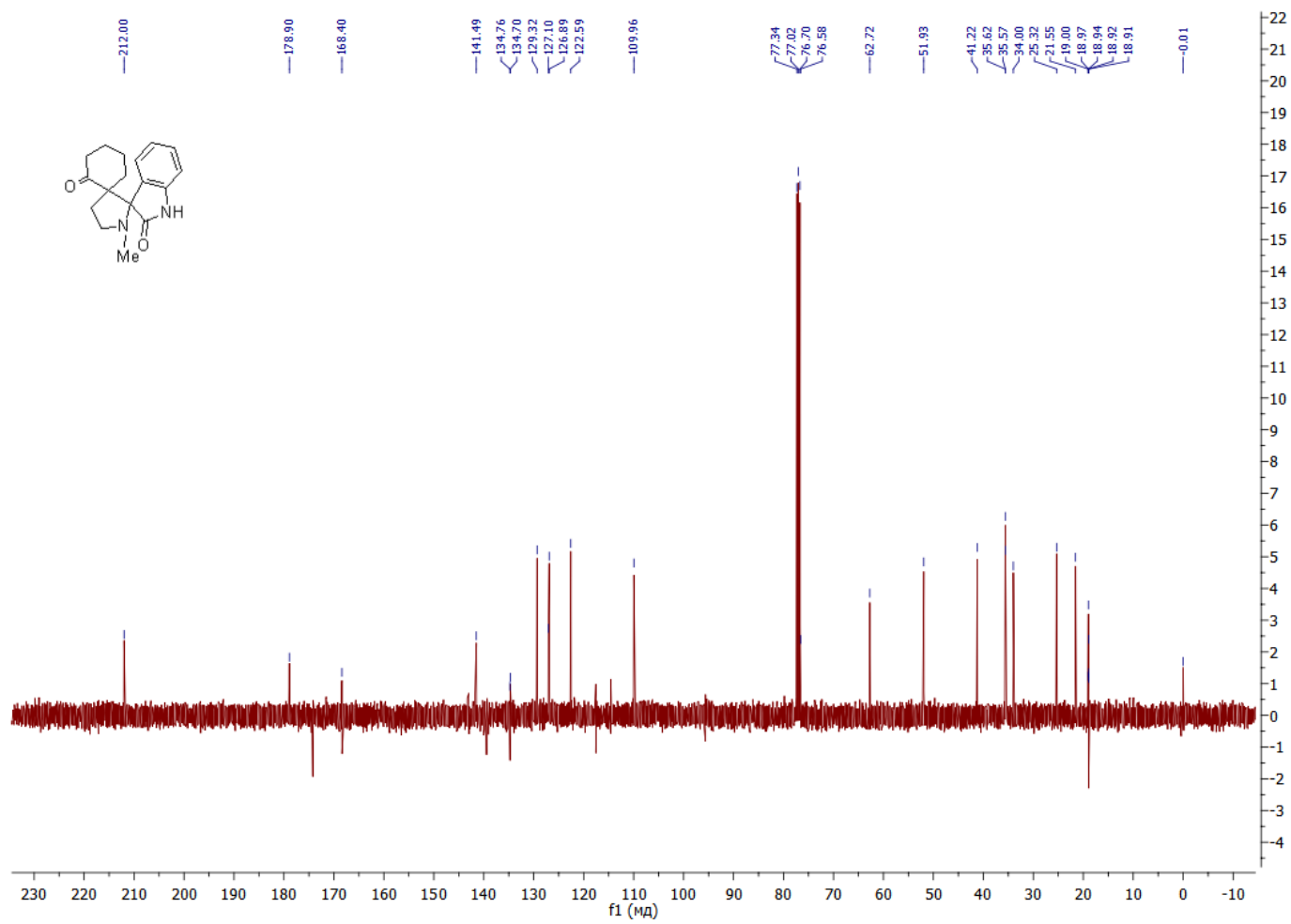


The ^1H ^{13}C HMBC spectrum 1-N-methyl-spiro[2.3 1]oxindole-spiro[3.2 11]6 11 -2-furylmethylenecyclohexanone-4-2-furylpyrrolidines (**3f**)

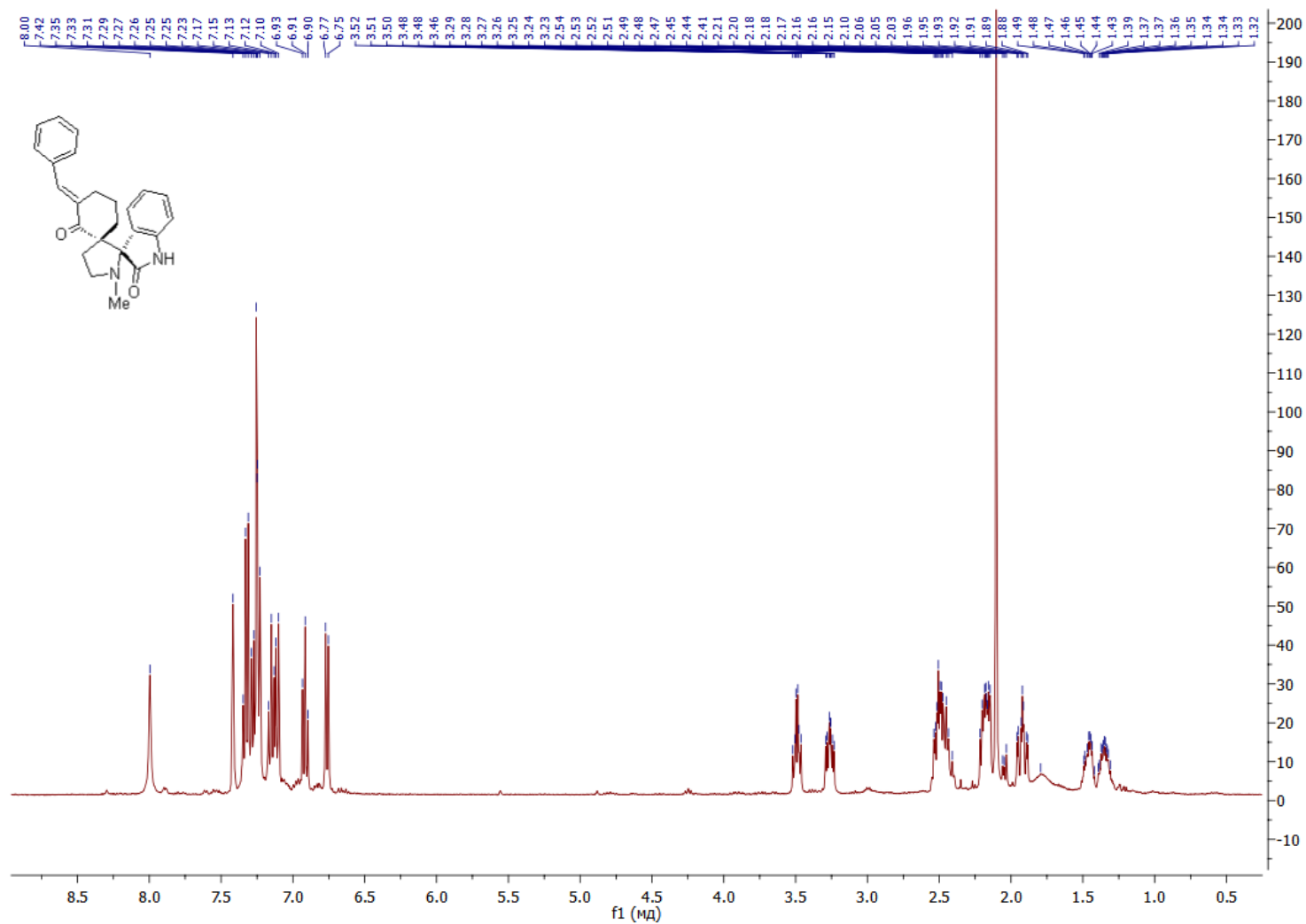


The detailed ^1H ^{13}C HMBC spectrum 1-N-methyl-spiro[2.3¹]oxindole-spiro[3.2¹¹]6¹¹-2-furylmethylenecyclohexanone-4-2-furylpyrrolidines (**3f**)

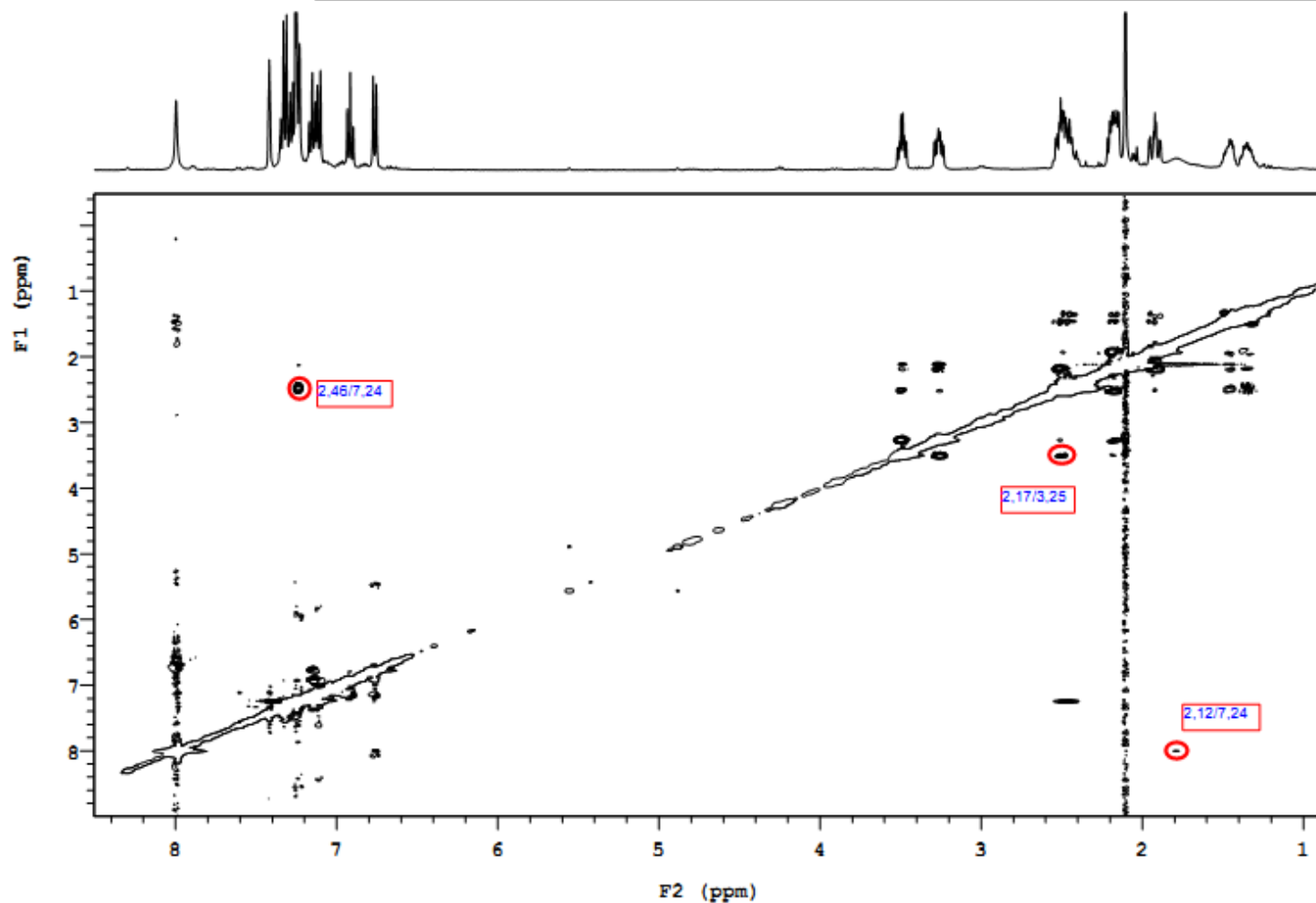




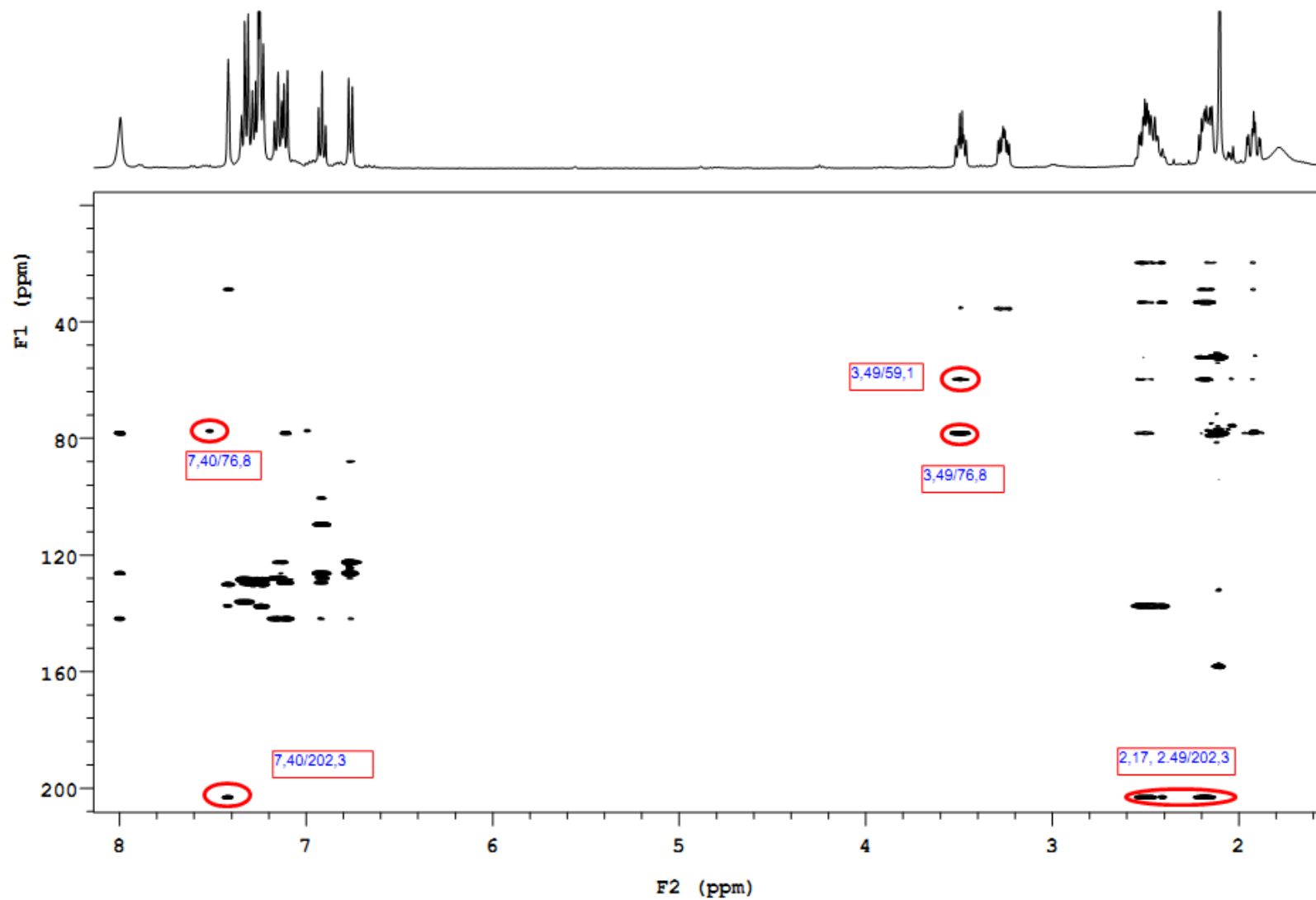
The ^{13}C NMR 14-N-methyl-2,14-diazaspiro[4.0.5.3]tetradecan-3,4-benzo-1,7-dione **5**



The ¹H NMR 8-Phenylmethyliden-14-N-methyl-2,14-diazaspiro[4.0.5.3]tetradecan-3,4-benzo-1,7-dione 7



The NOESY spectrum 8-Phenylmethyliden-14-N-methyl-2,14-diazaspiro[4.0.5.3]tetradecan-3,4-benzo-1,7-dione 7



The $^1\text{H}/^{13}\text{C}$ HMBC spectrum 8-Phenylmethyliden-14-N-methyl-2,14-diazaspiro[4.0.5.3]tetradecan-3,4-benzo-1,7-dione 7



Agilent Technologies

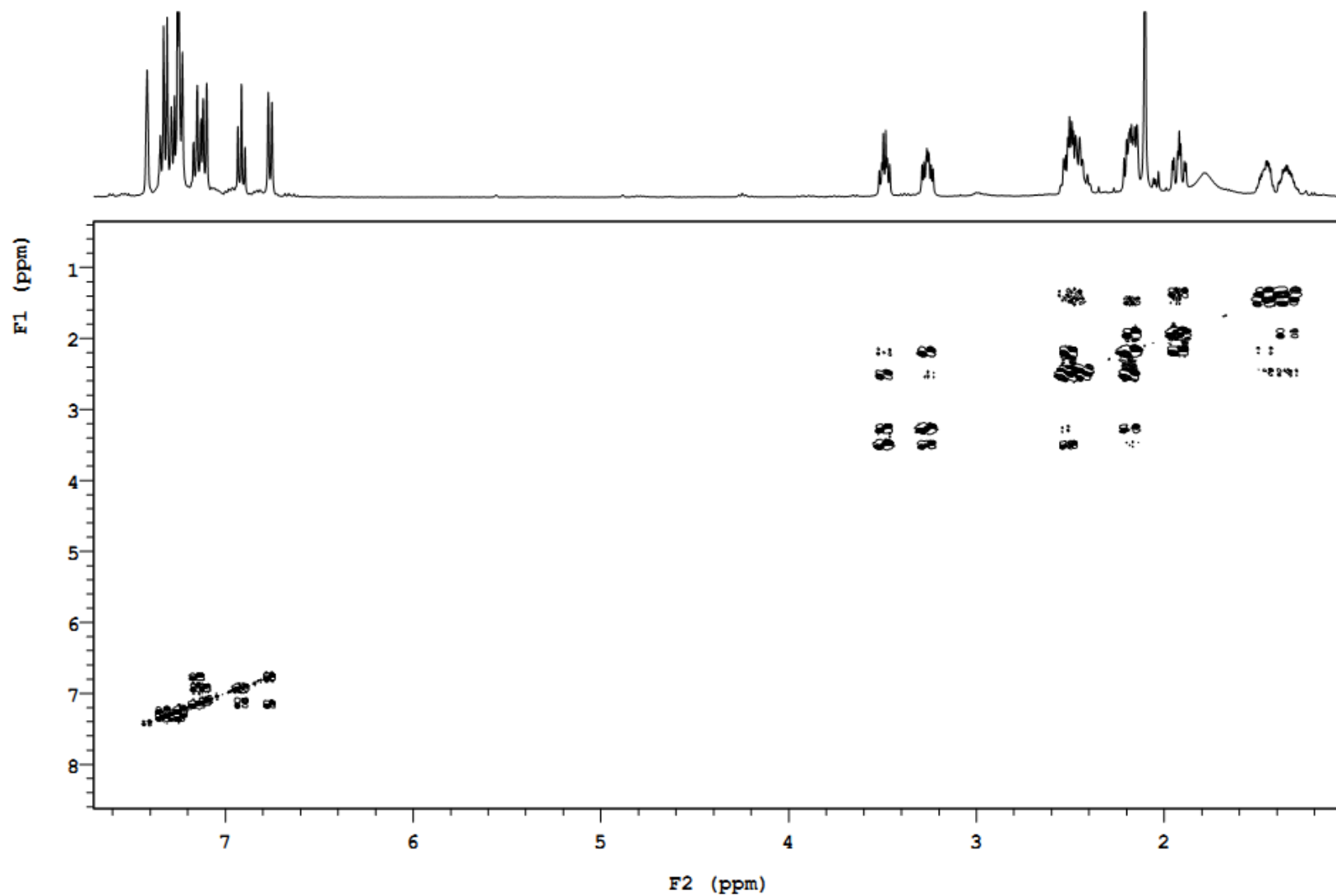
235_Averklev

Sample Name 235_Averklev
Date collected 2017-06-01

Pulse sequence gDQCOSY
Solvent cdcl3

Temperature 25
Spectrometer vnmrs400-vnmrs400

Study owner vnmr1
Operator vnmr1



The dqCOSY spectrum 8-Phenylmethylen-14-N-methyl-2,14-diazaspiro[4.0.5.3]tetradecan-3,4-benzo-1,7-dione 7