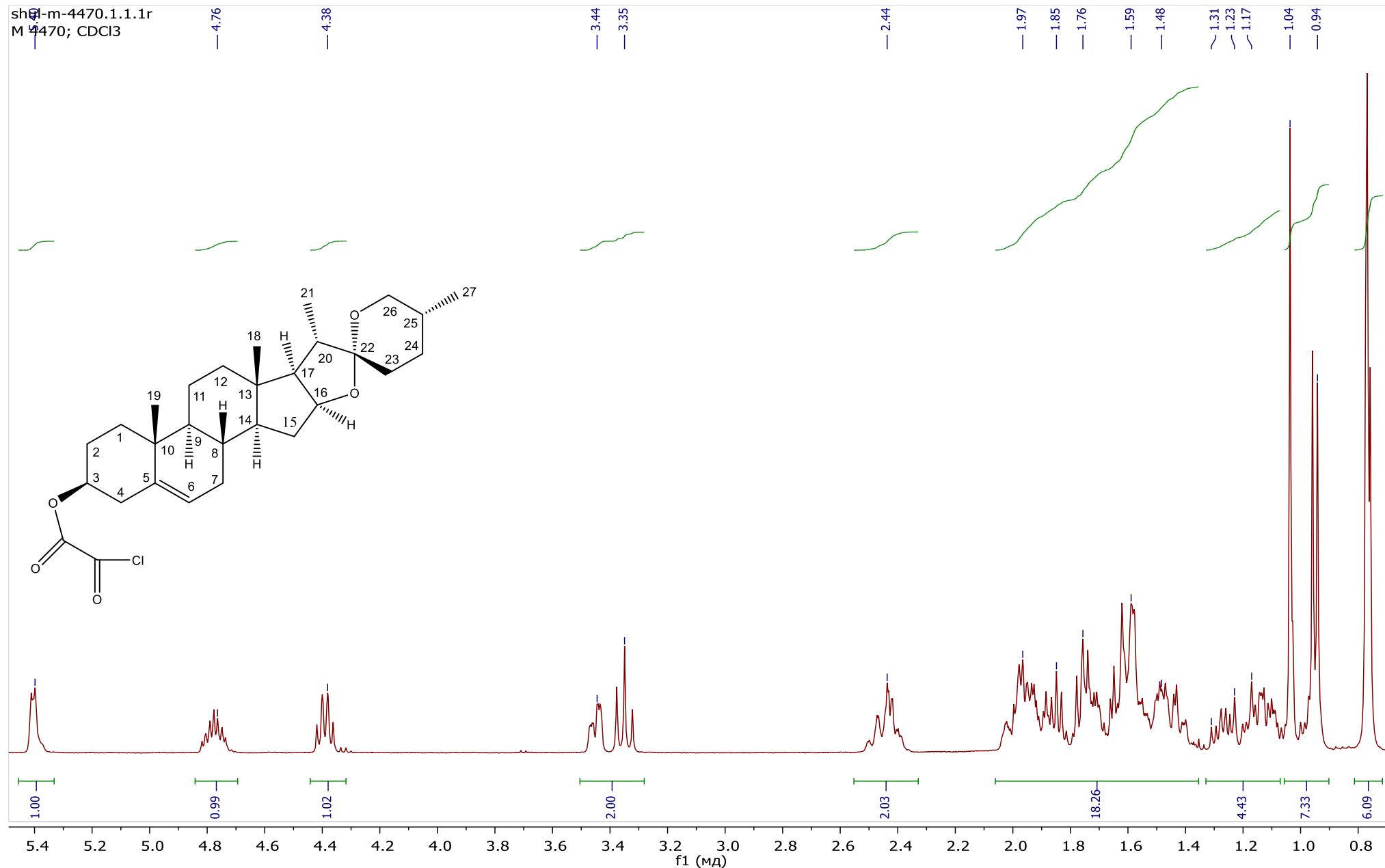
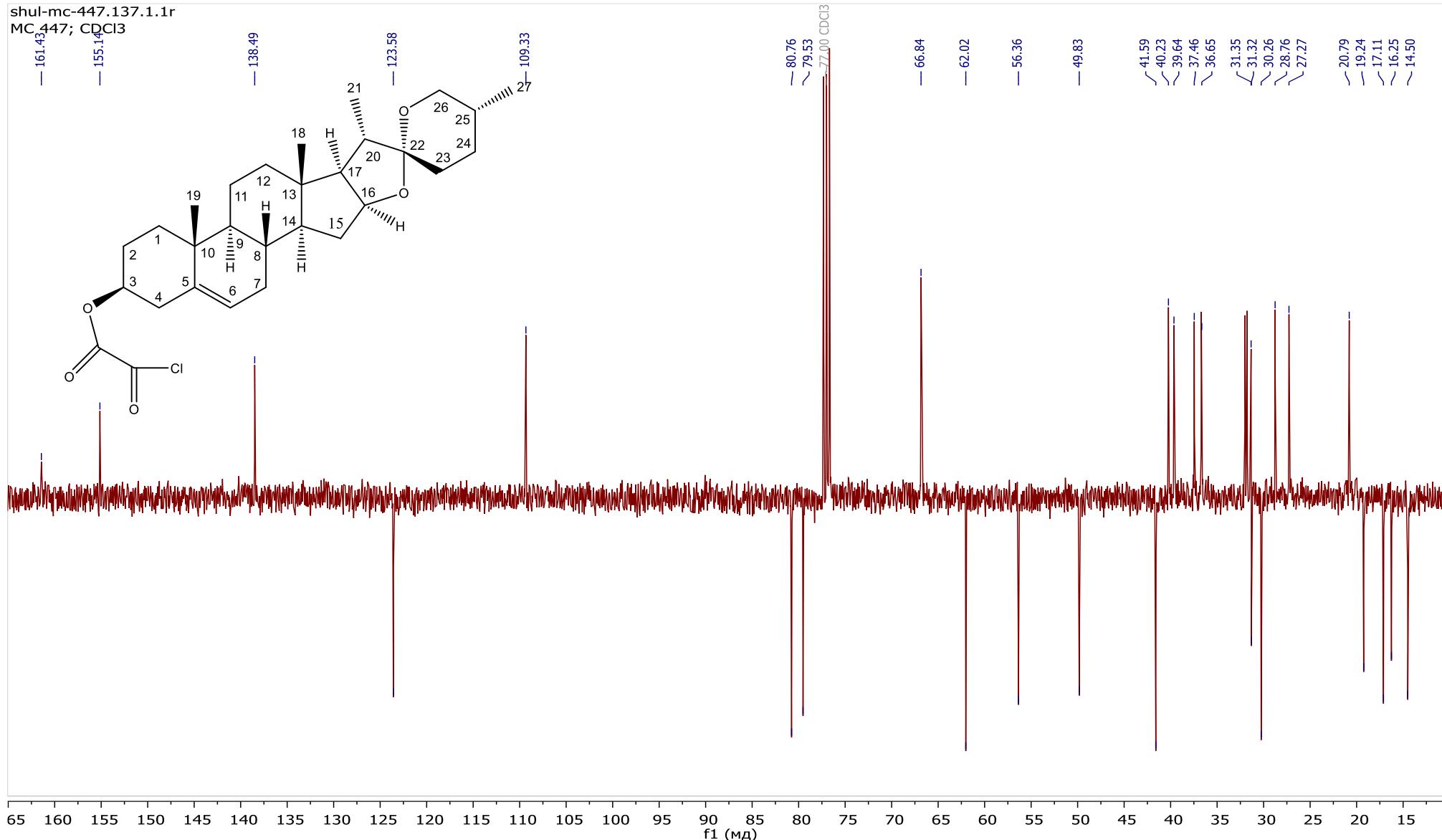


Compound 2 ((22*R*,25*R*)-spirost-5-en-3 β -yl 2-chloro-2-oxoacetate), ^1H NMR, 400 MHz, CDCl_3

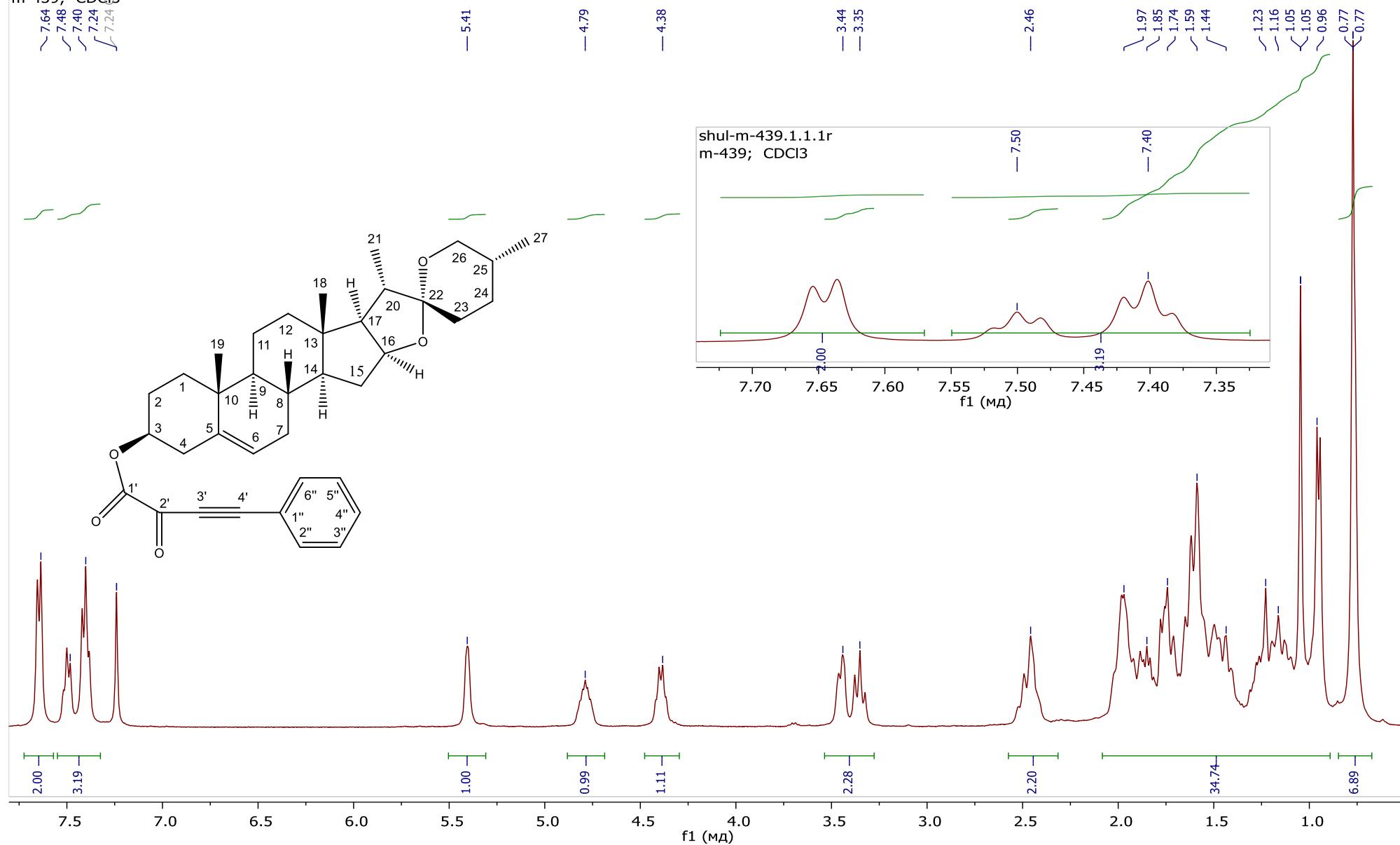
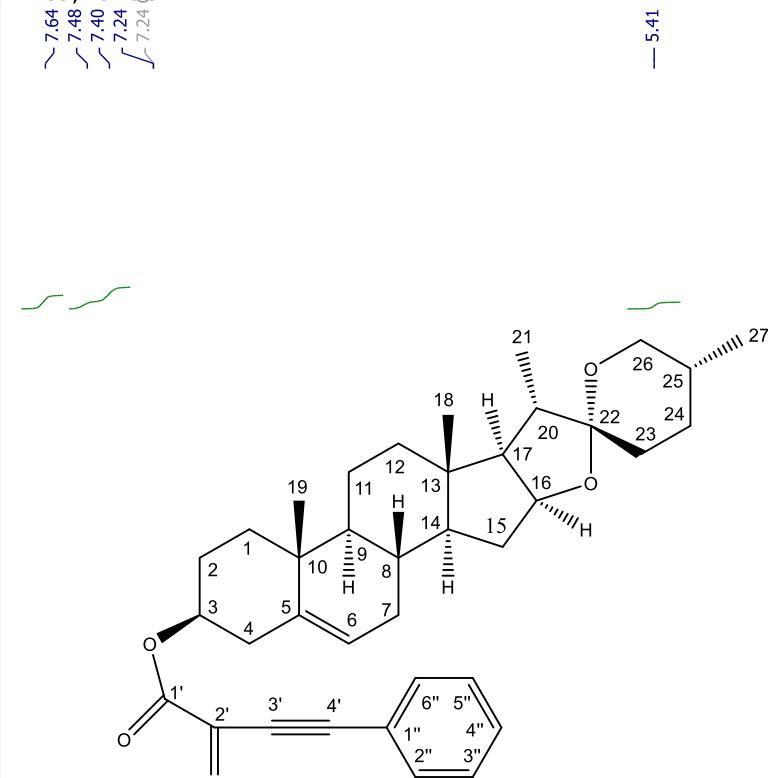


Compound 2 ((22*R*,25*R*)-spirost-5-en-3 β -yl 2-chloro-2-oxoacetate), ^{13}C NMR, 101 MHz, CDCl_3

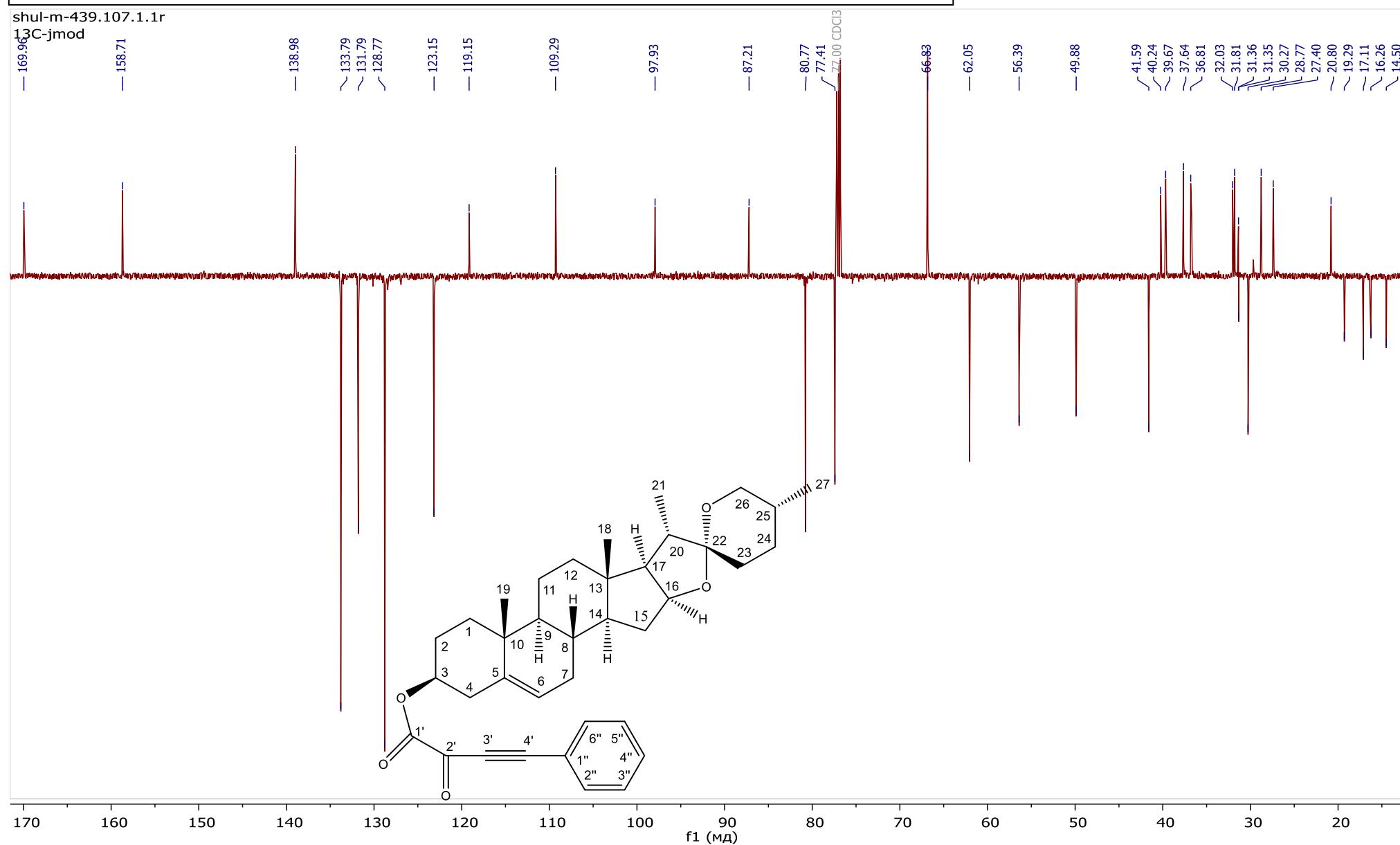


Compound 4 ((22*R*,25*R*)-spirost-5-en-3 β -yl 2-oxo-4-phenylbut-3-ynoate), ^1H NMR, 600 MHz, CDCl_3

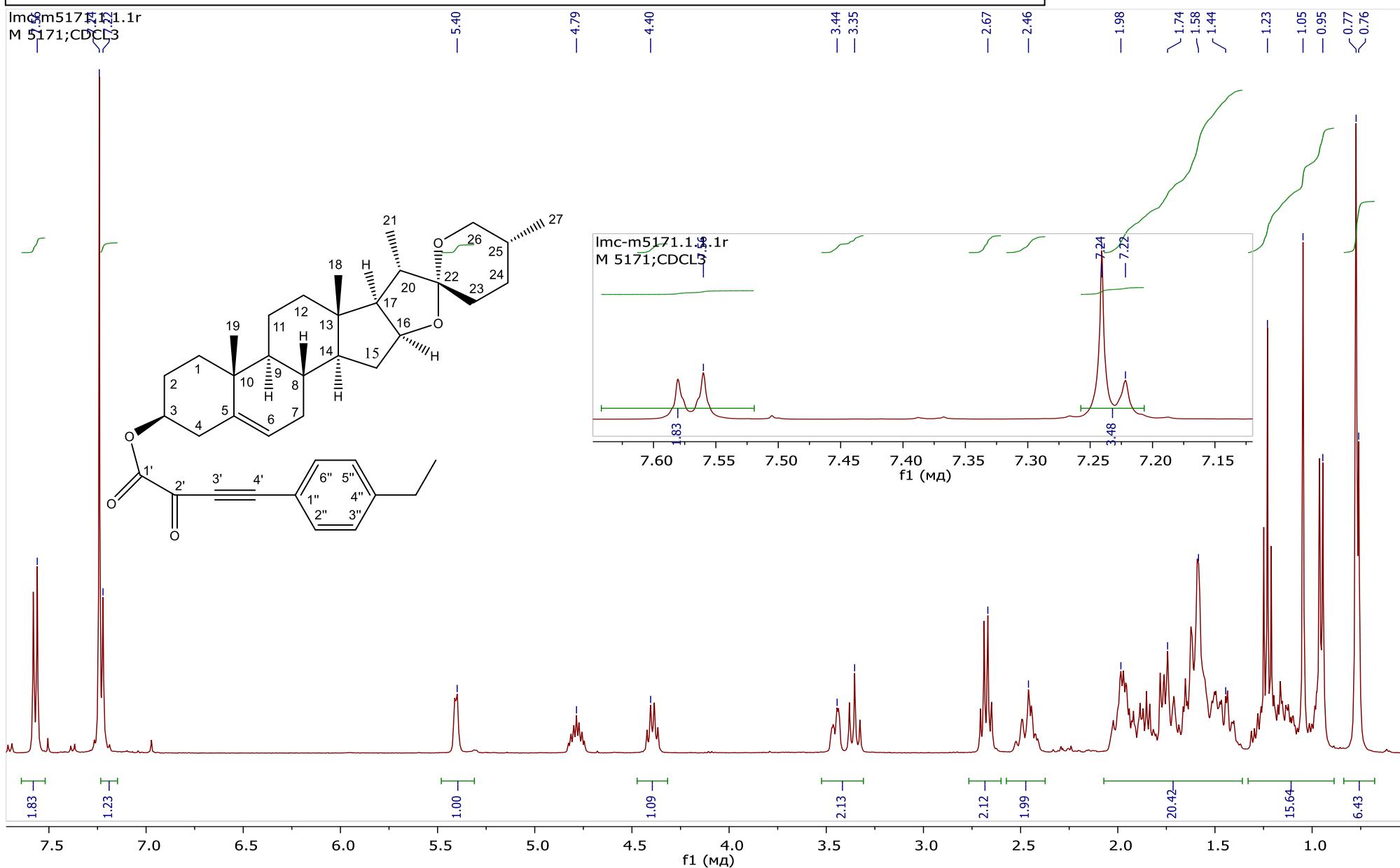
shul-m-439.1
m-439; CDCB



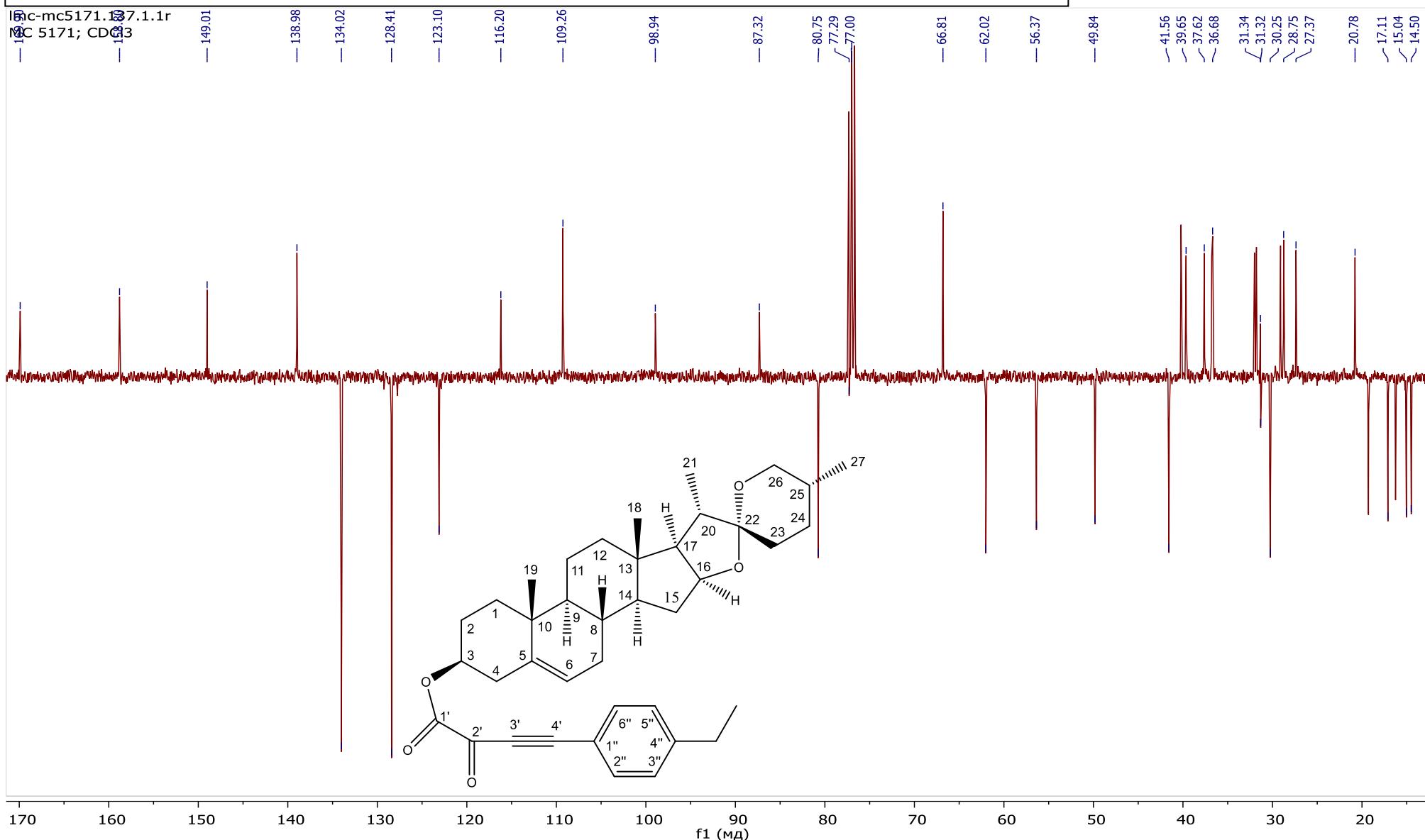
Compound 4 ((22*R*,25*R*)-spirost-5-en-3 β -yl 2-oxo-4-phenylbut-3-ynoat), ^{13}C NMR, 151 MHz, CDCl_3



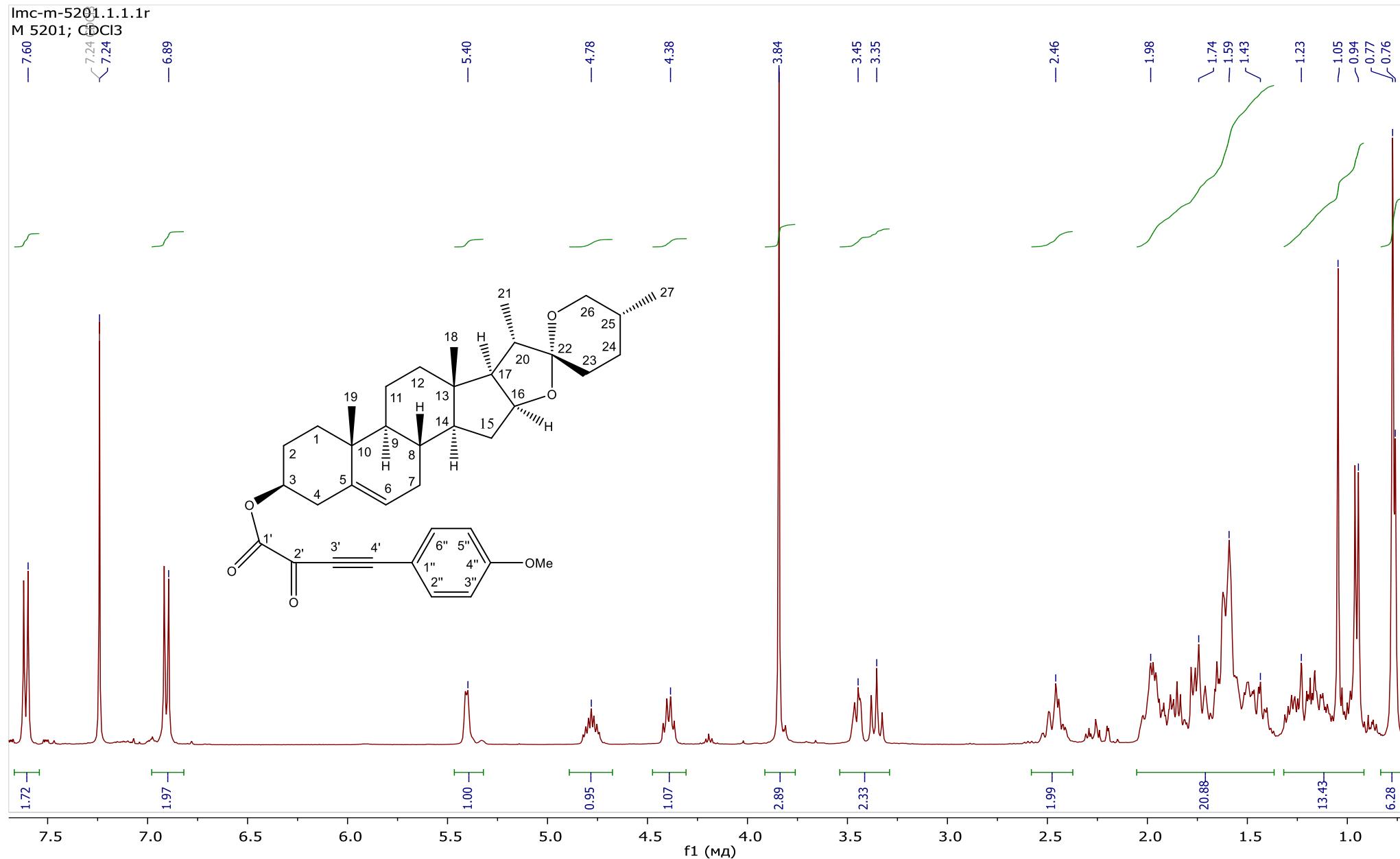
Compound 5 ((22*R*,25*R*)-spirost-5-en-3 β -yl 4-(4-ethylphenyl)-2-oxobut-3-ynoate), ^1H NMR, 400 MHz, CDCl_3



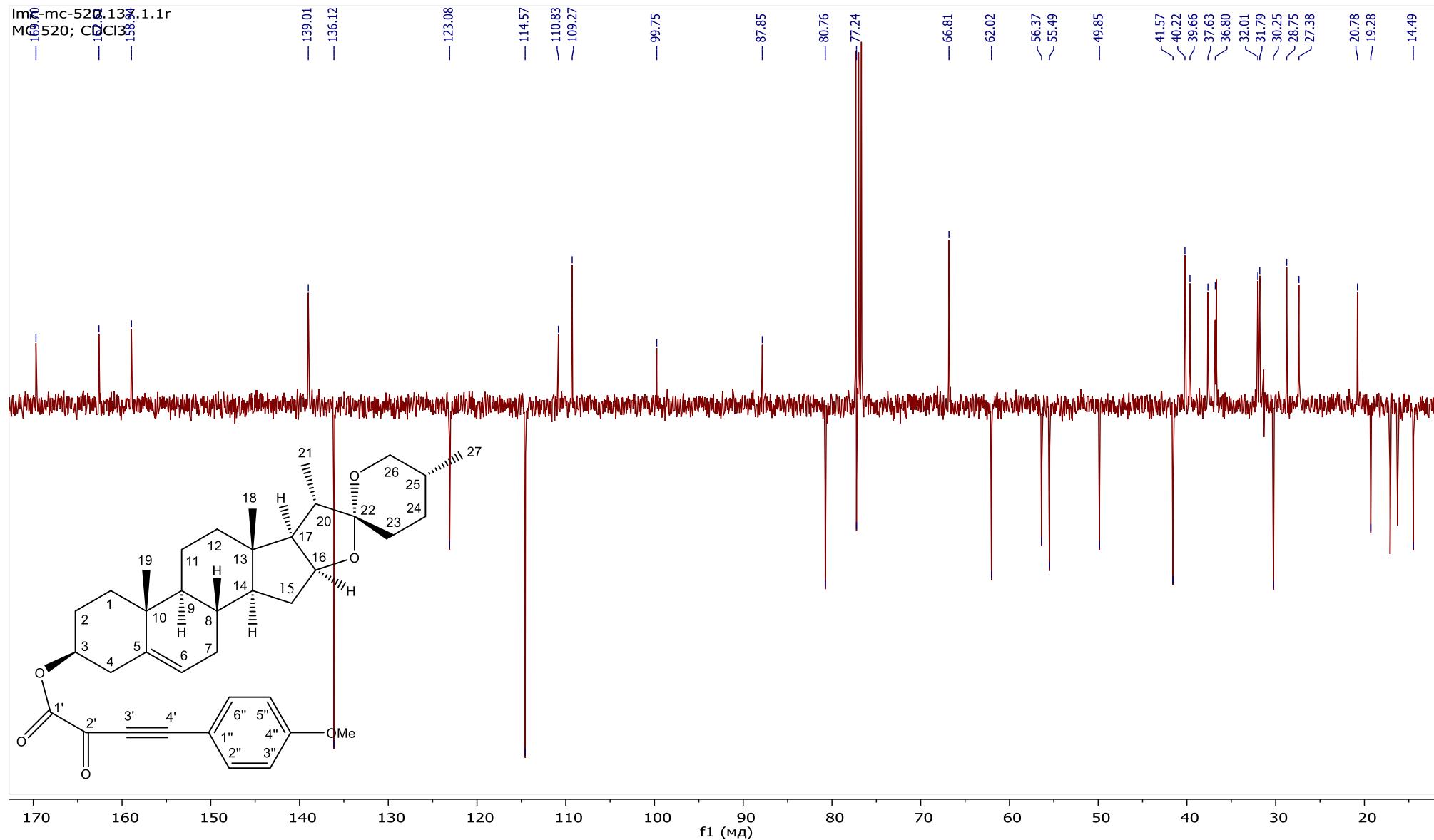
Compound 5 ((22*R*,25*R*)-spirost-5-en-3 β -yl 4-(4-ethylphenyl)-2-oxobut-3-ynoate), ^{13}C NMR, 101 MHz, CDCl_3



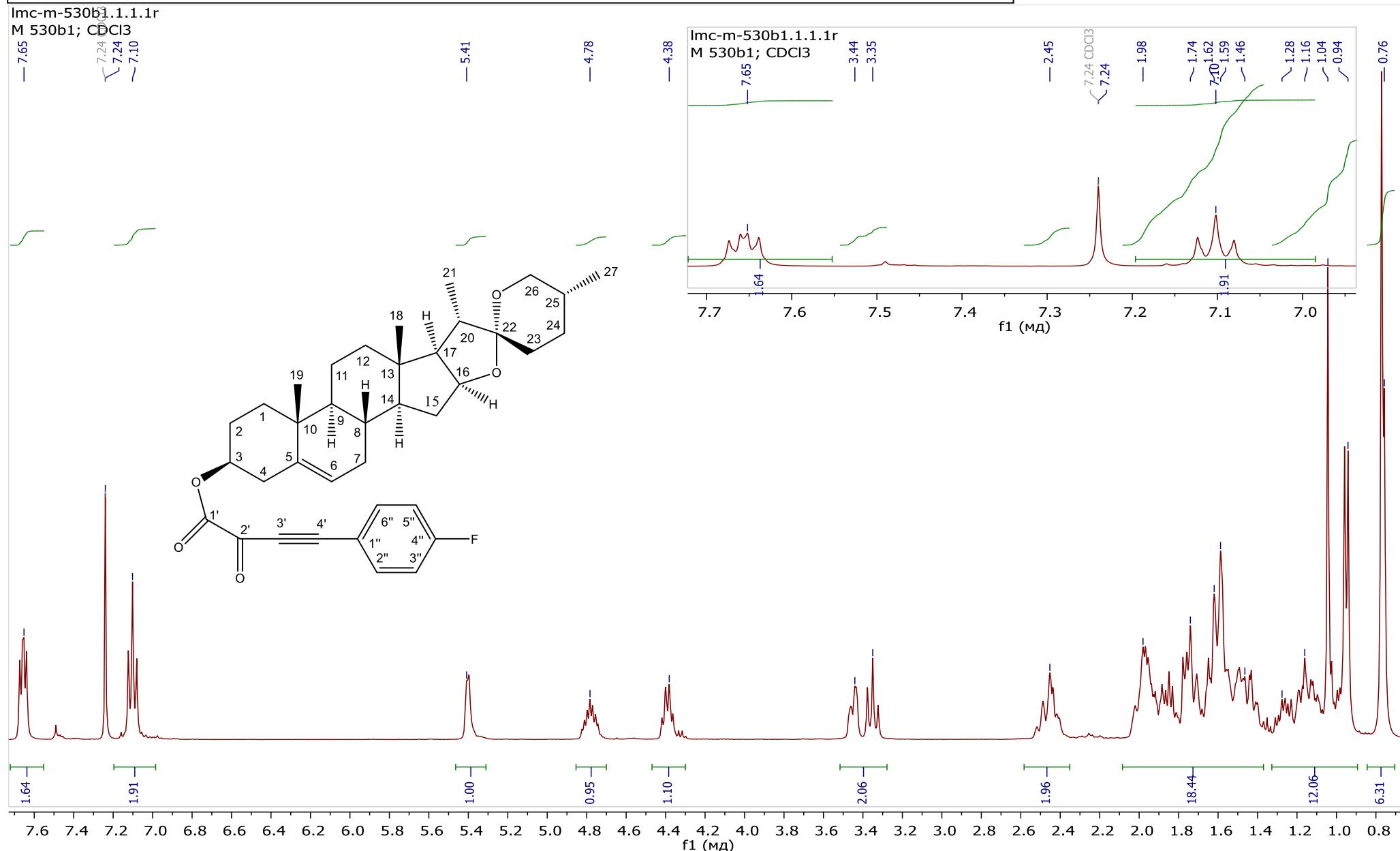
Compound 6 ((22*R*,25*R*)-spirost-5-en-3 β -yl 4-(4-methoxyphenyl)-2-oxobut-3-ynoate), ^1H NMR, 400 MHz, CDCl_3



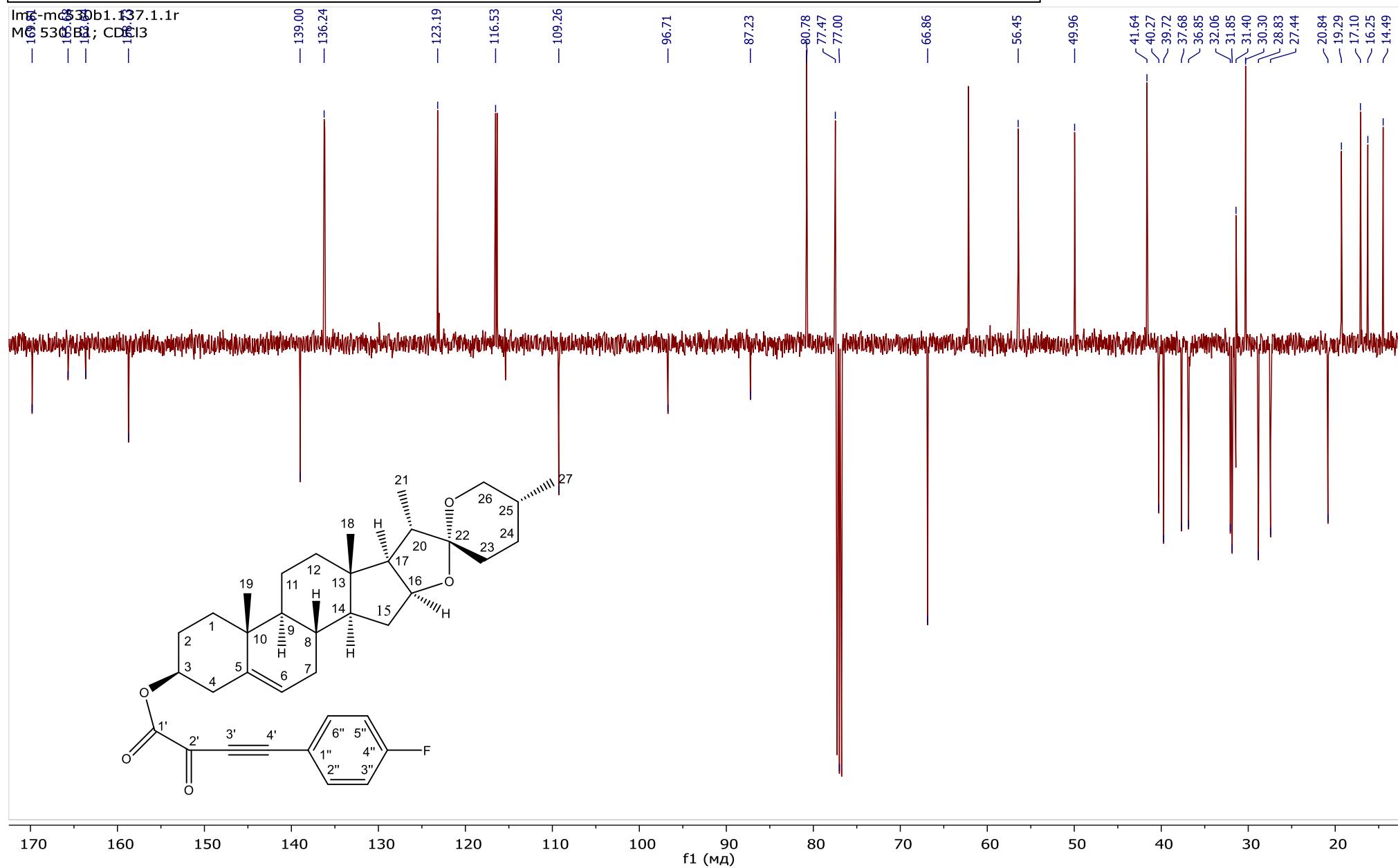
Compound 6 ((22*R*,25*R*)-spirost-5-en-3 β -yl 4-(4-methoxyphenyl)-2-oxobut-3-ynoate), ^{13}C NMR, 101 MHz, CDCl_3



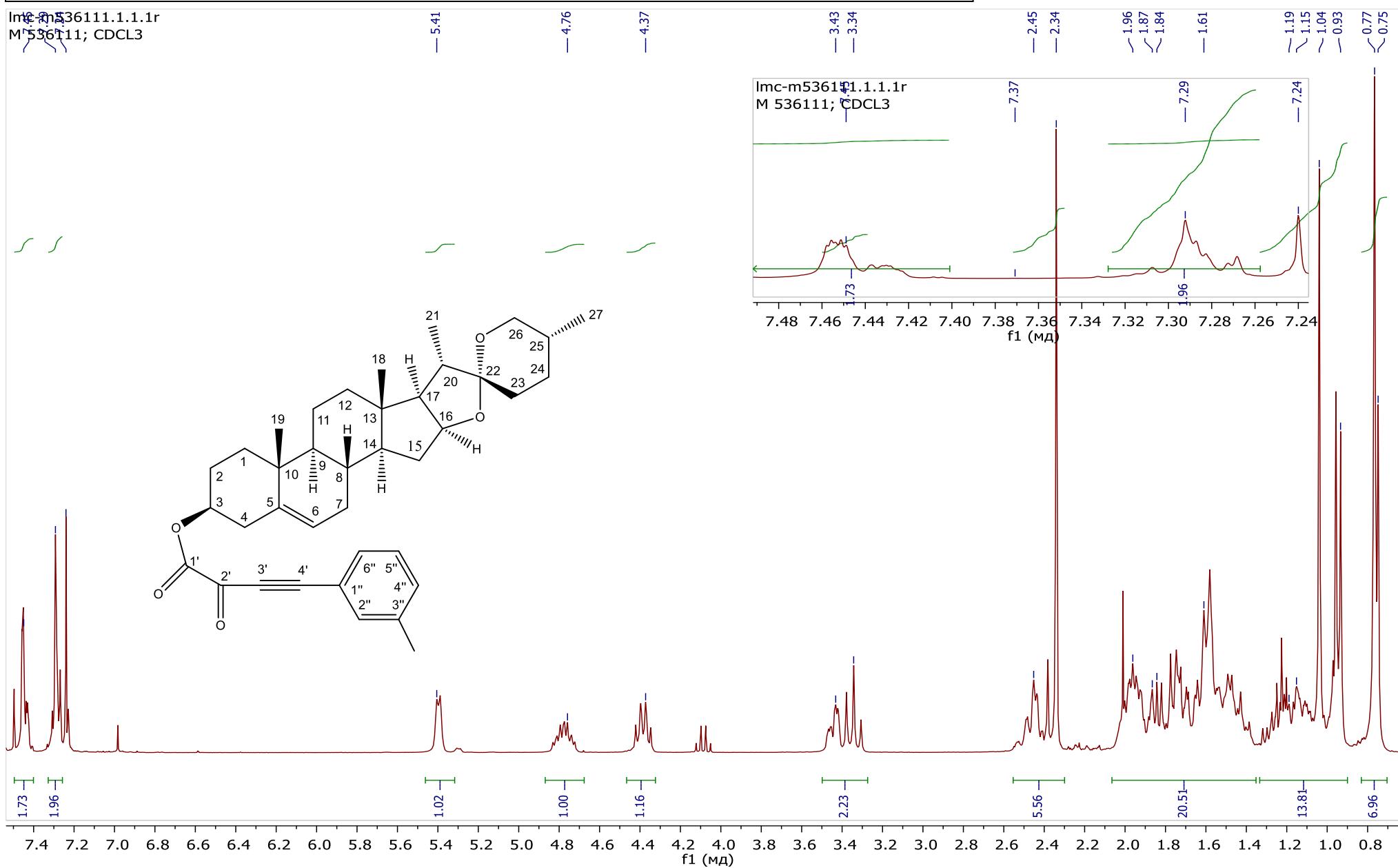
Compound 7 (22*R*,25*R*)-spirost-5-en-3 β -yl 4-(4-fluorophenyl)-2-oxobut-3-ynoate, ^1H NMR, 400 MHz, CDCl_3



Compound 7 (*22R,25R*)-spirost-5-en-3 β -yl 4-(4-fluorophenyl)-2-oxobut-3-ynoate, ^{13}C NMR, 126 MHz, CDCl_3

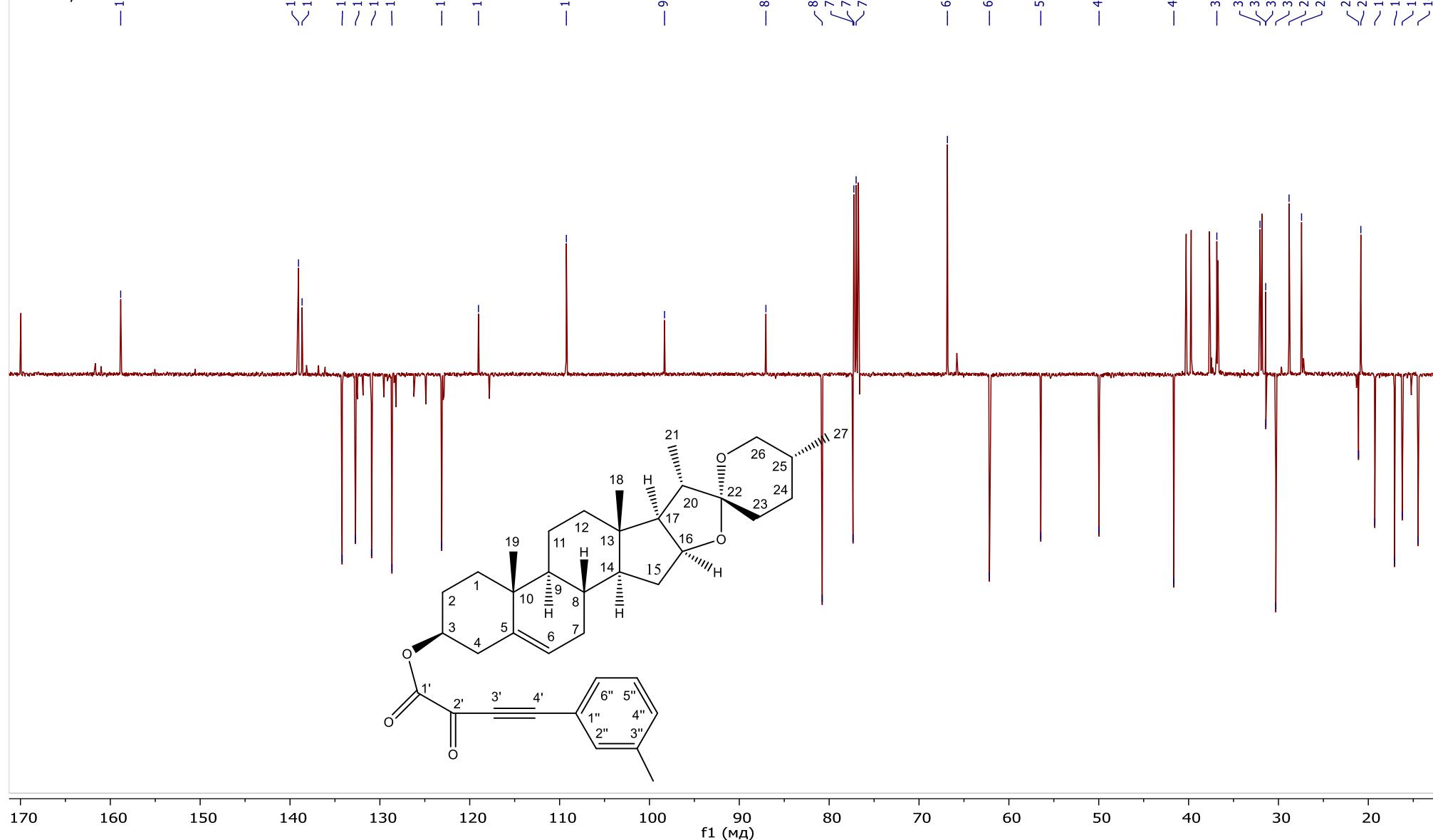


Compound 8 ((22*R*,25*R*)-spirost-5-en-3 β -yl 2-oxo-4-(*m*-tolyl)but-3-ynoate), ^1H NMR, 300 MHz, CDCl_3

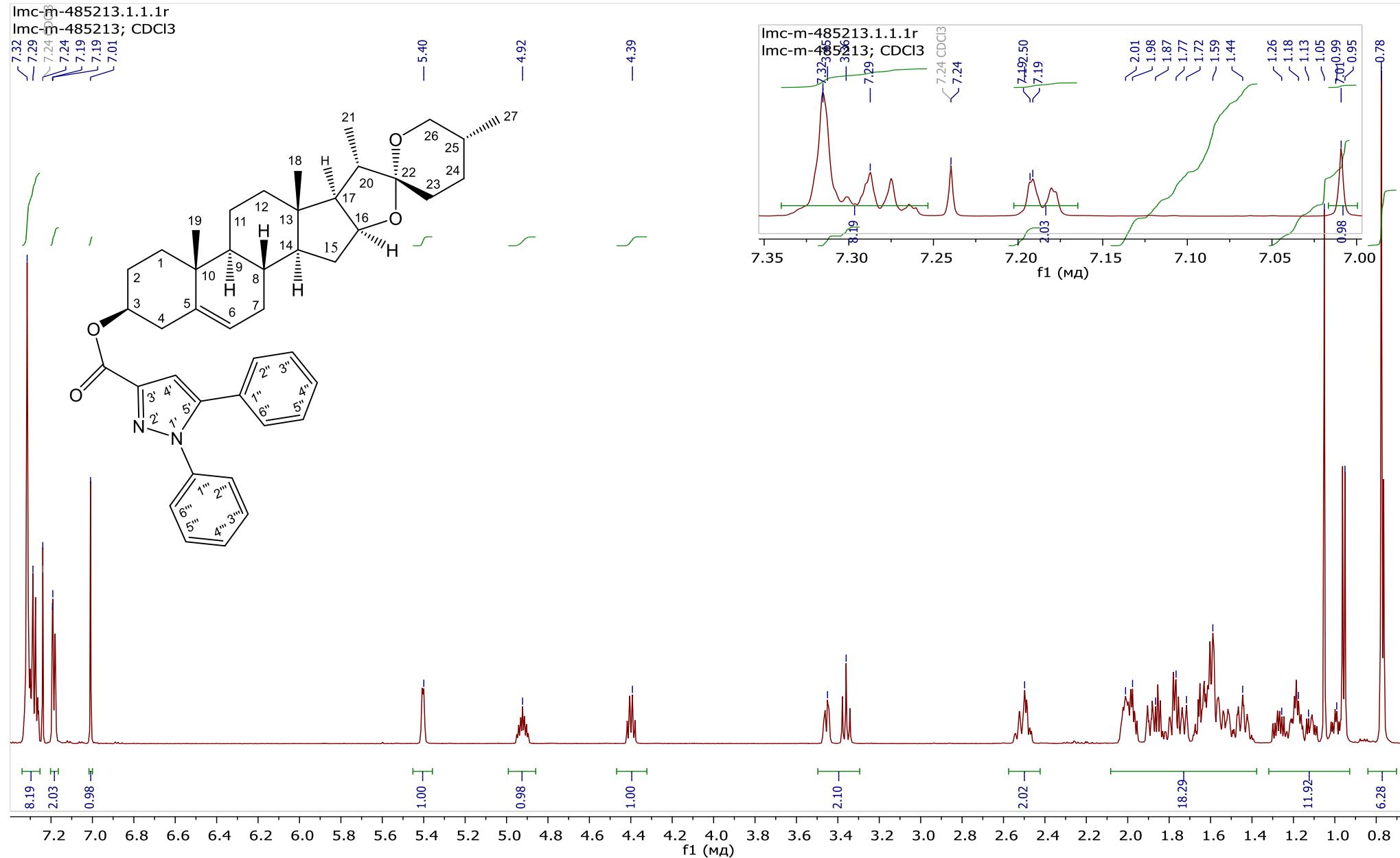


Compound 8 ((22*R*,25*R*)-spirost-5-en-3 β -yl 2-oxo-4-(*m*-tolyl)but-3-ynoate), ^{13}C NMR, 126 MHz, CDCl_3

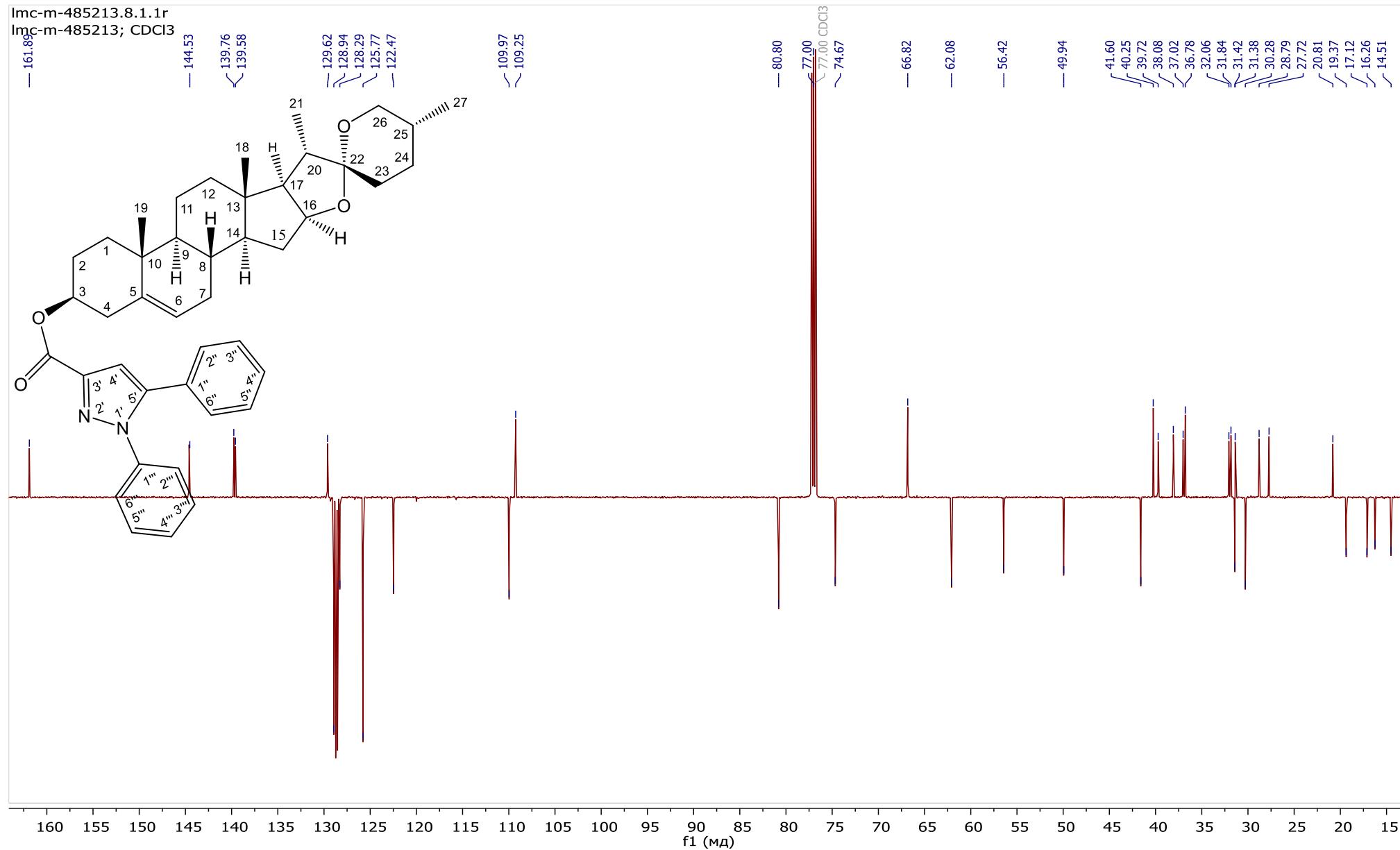
Imc-mc536.137.1.1r
MC 536; CDC 138



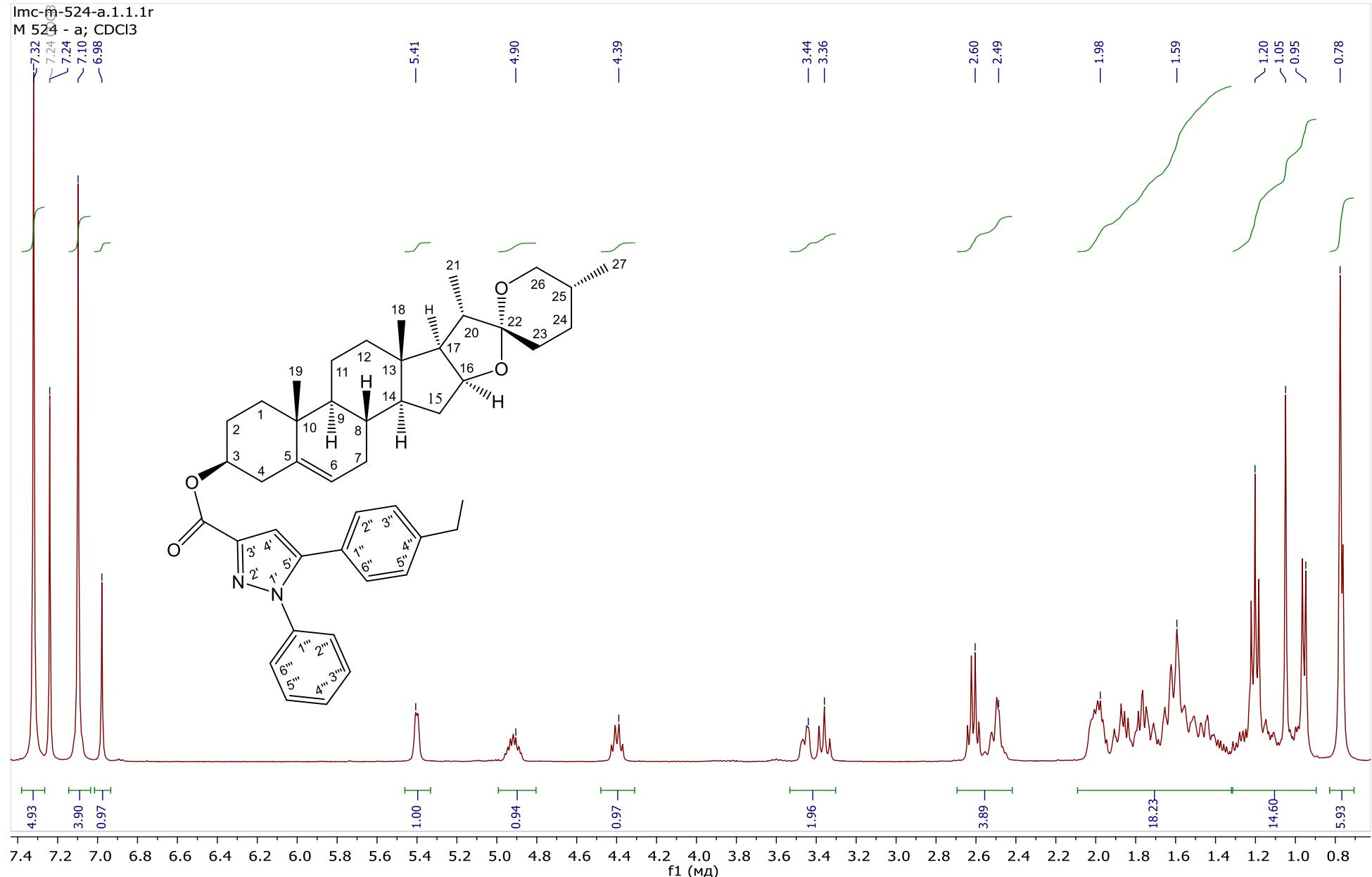
Compound 10 ((22*R*,25*R*)-spirost-5-en-3 β -yl 1,5-diphenyl-1*H*-pyrazole-3-carboxylate), ^1H NMR, 600 MHz, CDCl_3



Compound 10 ((22*R*,25*R*)-spirost-5-en-3 β -yl 1,5-diphenyl-1*H*-pyrazole-3-carboxylate), ^{13}C NMR, 151 MHz, CDCl_3

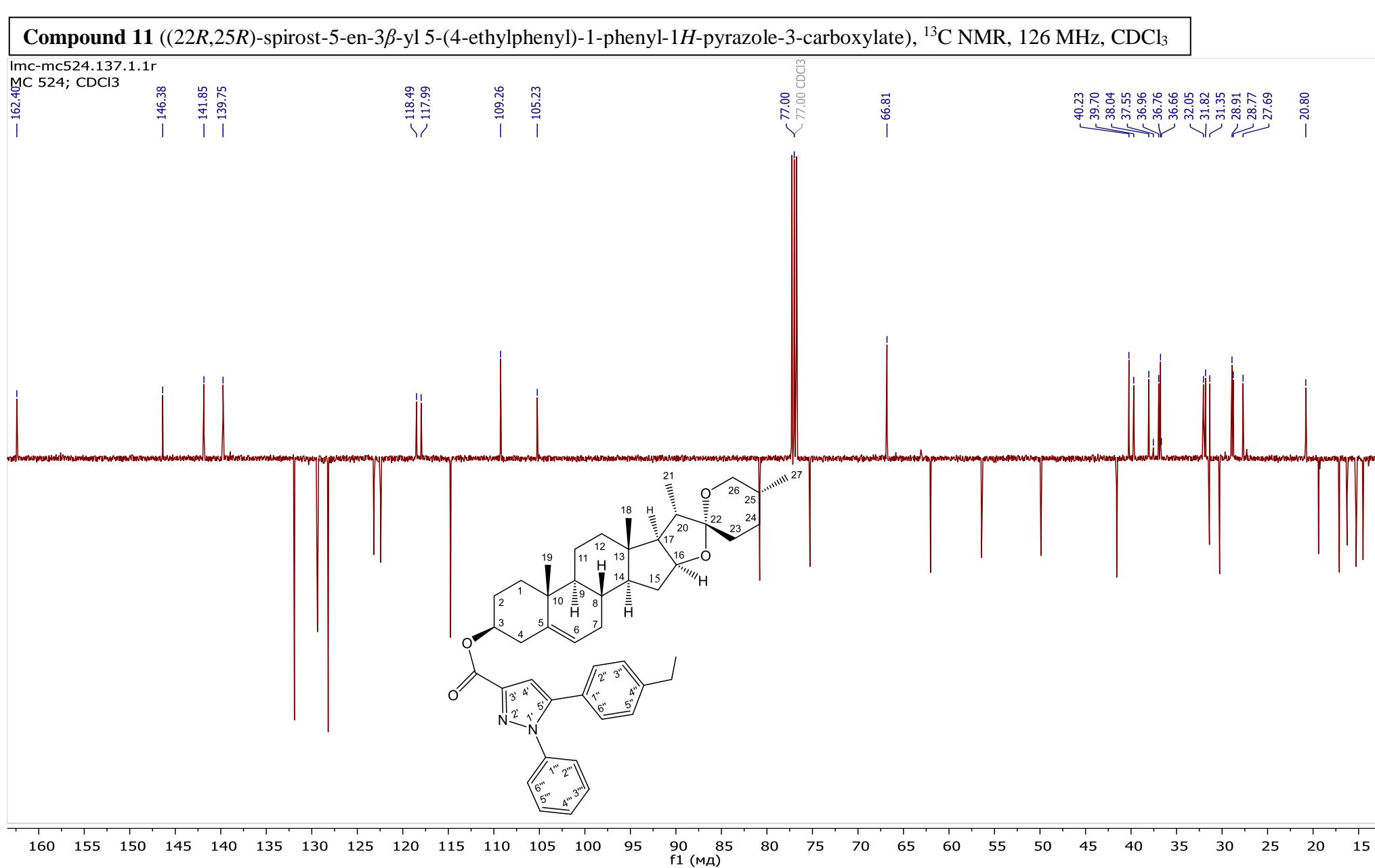


Compound 11 ((22*R*,25*R*)-spirost-5-en-3 β -yl 5-(4-ethylphenyl)-1-phenyl-1*H*-pyrazole-3-carboxylate), ^1H NMR, 400 MHz, CDCl_3

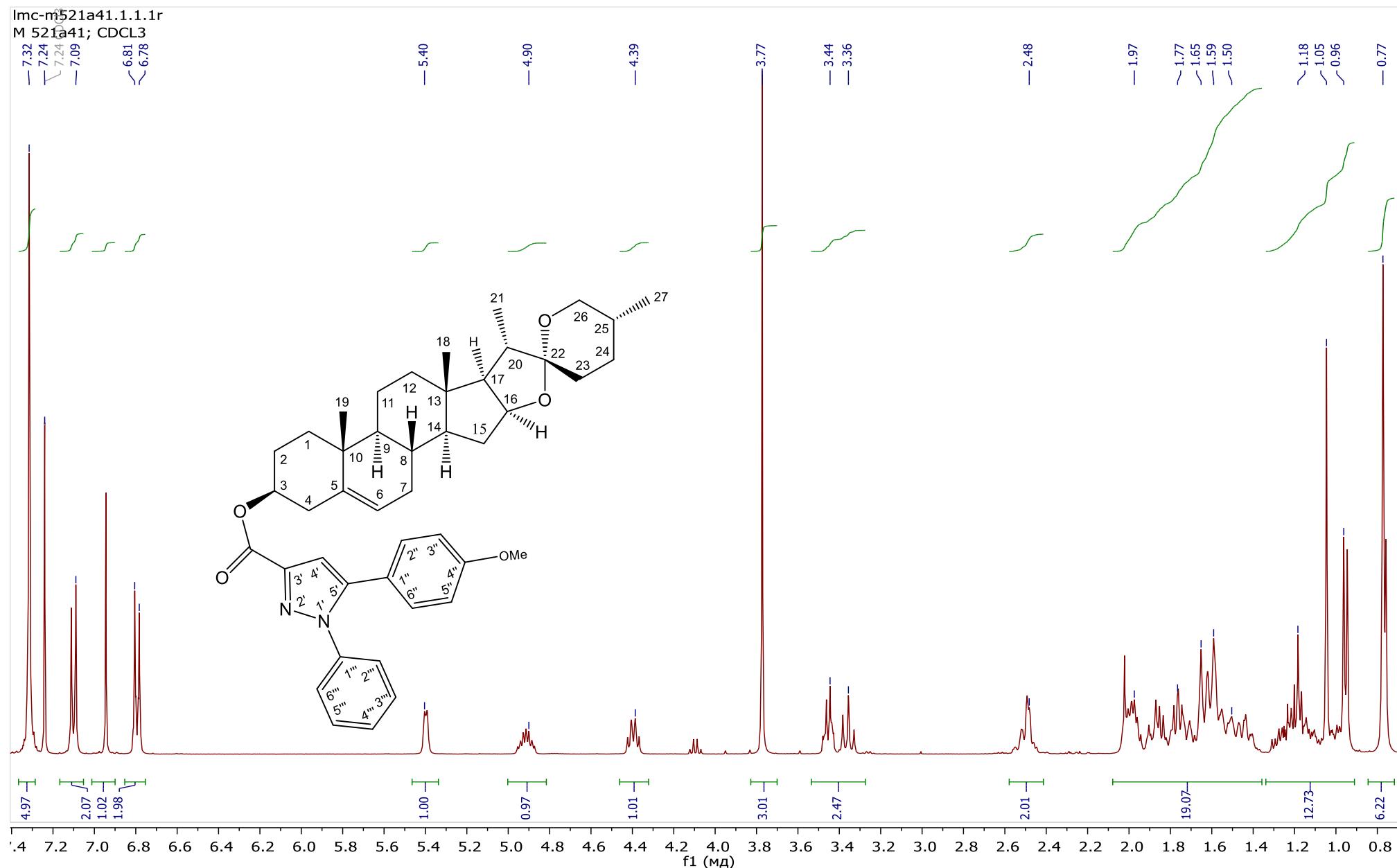


Compound 11 ((22*R*,25*R*)-spirost-5-en-3 β -yl 5-(4-ethylphenyl)-1-phenyl-1*H*-pyrazole-3-carboxylate), ^{13}C NMR, 126 MHz, CDCl_3

Imc-mc524.137.1.1r
MC 524; CDCl_3

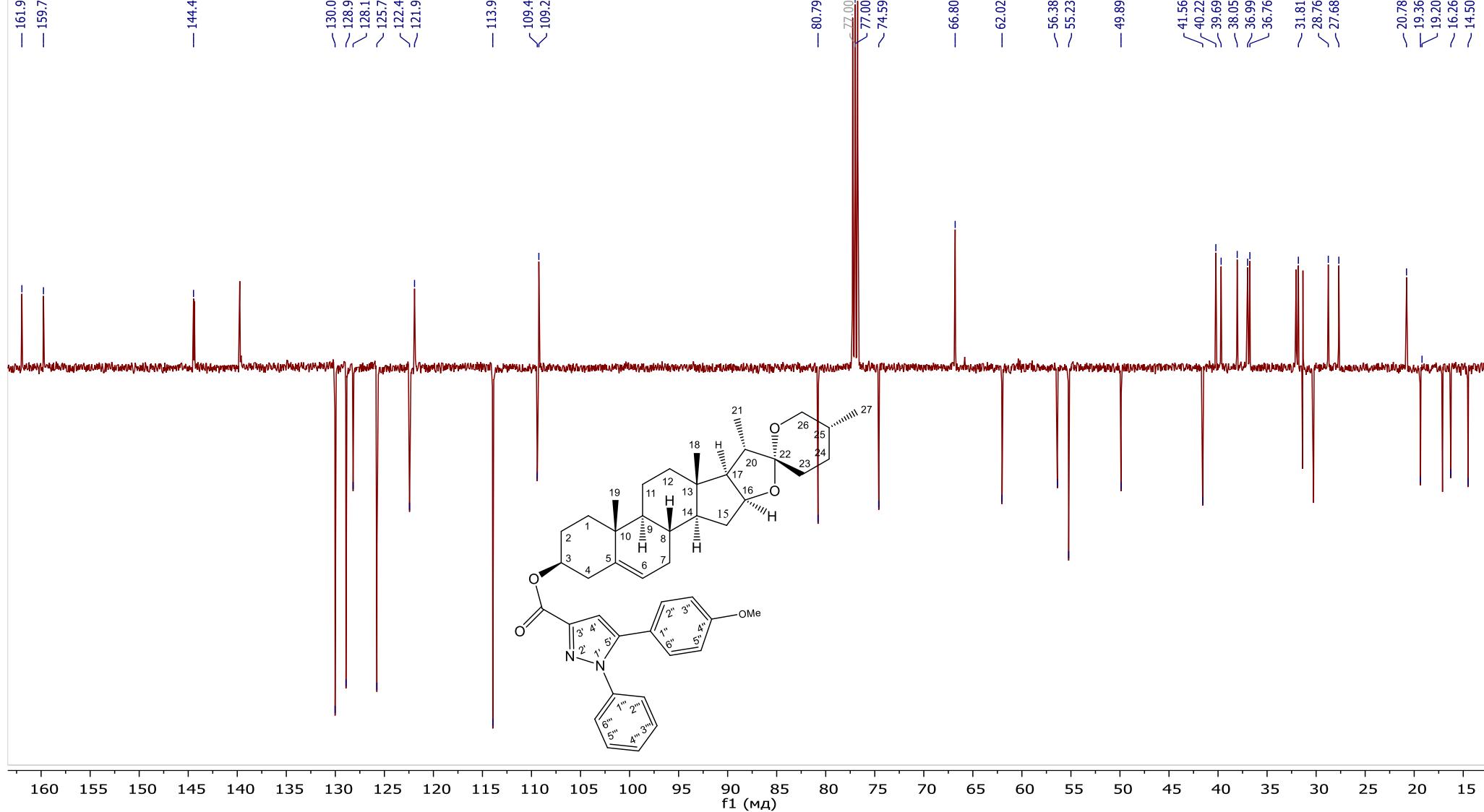


Compound 12 ((22*R*,25*R*)-spirost-5-en-3 β -yl 5-(4-methoxyphenyl)-1-phenyl-1*H*-pyrazole-3-carboxylate), ^1H NMR, 400 MHz, CDCl_3

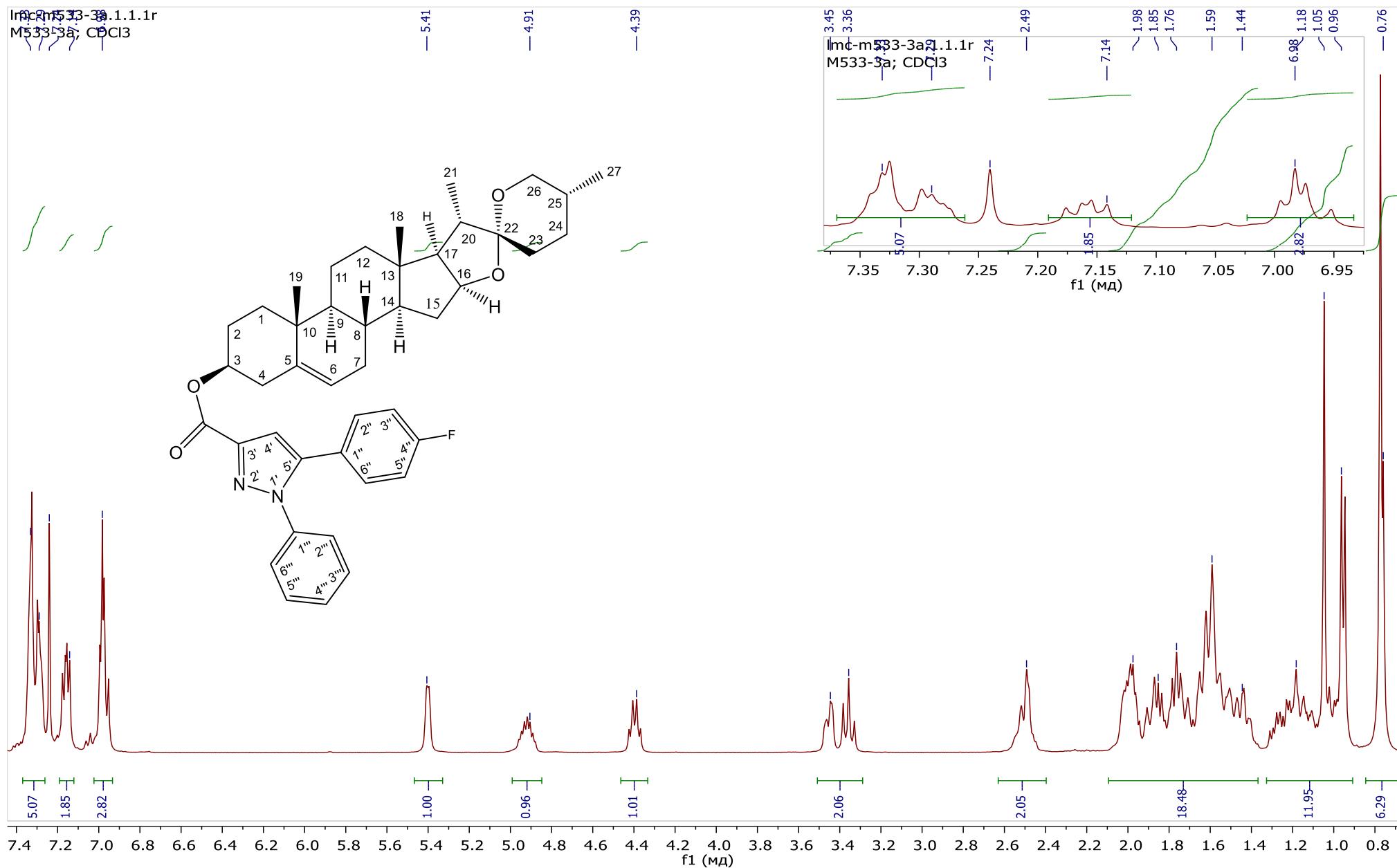


Compound 12 ((22*R*,25*R*)-spirost-5-en-3 β -yl 5-(4-methoxyphenyl)-1-phenyl-1*H*-pyrazole-3-carboxylate), ^{13}C NMR, 126 MHz, CDCl_3

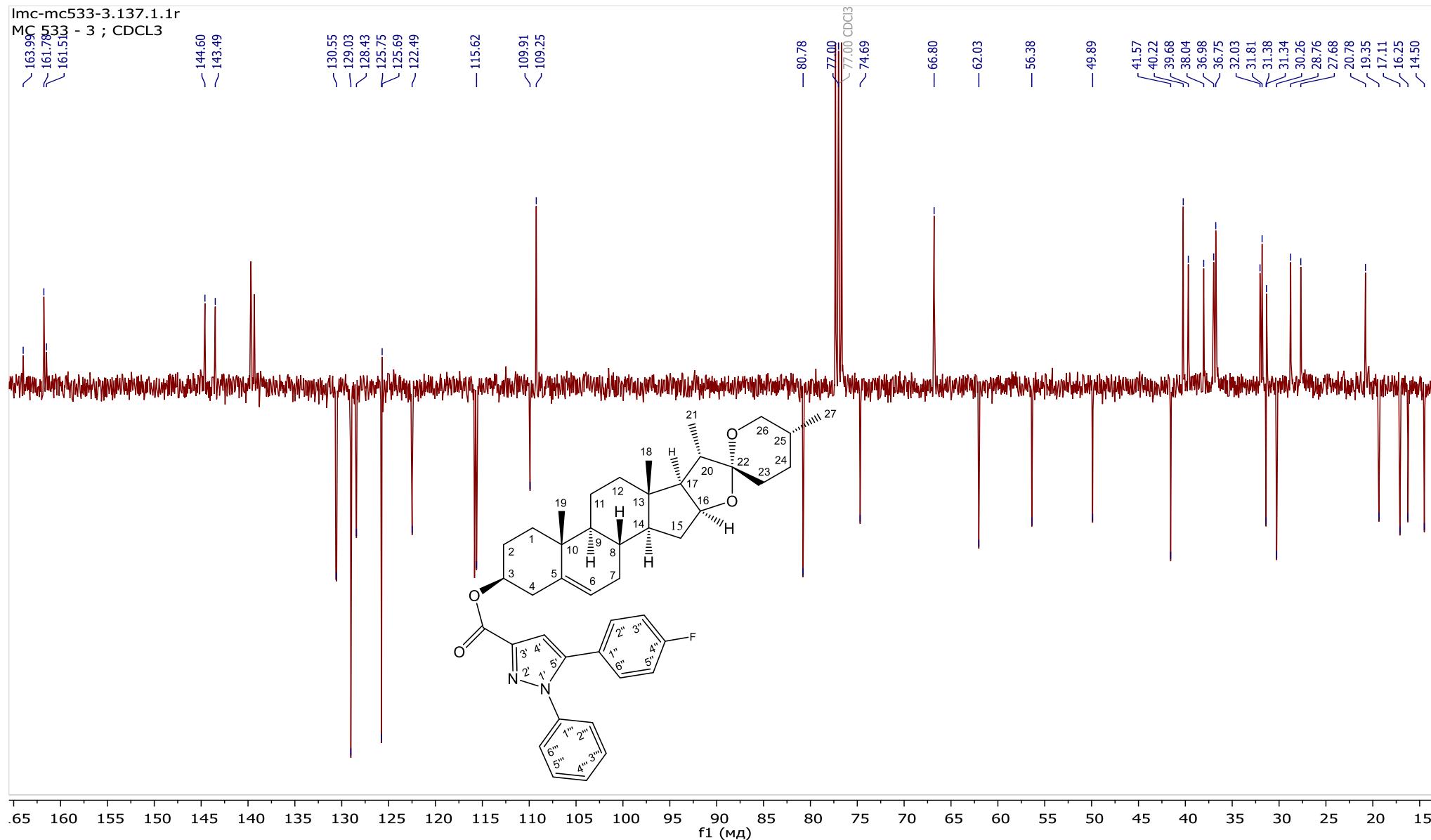
Imc-mc521a41.137.1.1r
MC 521 a41; CDCL3 6



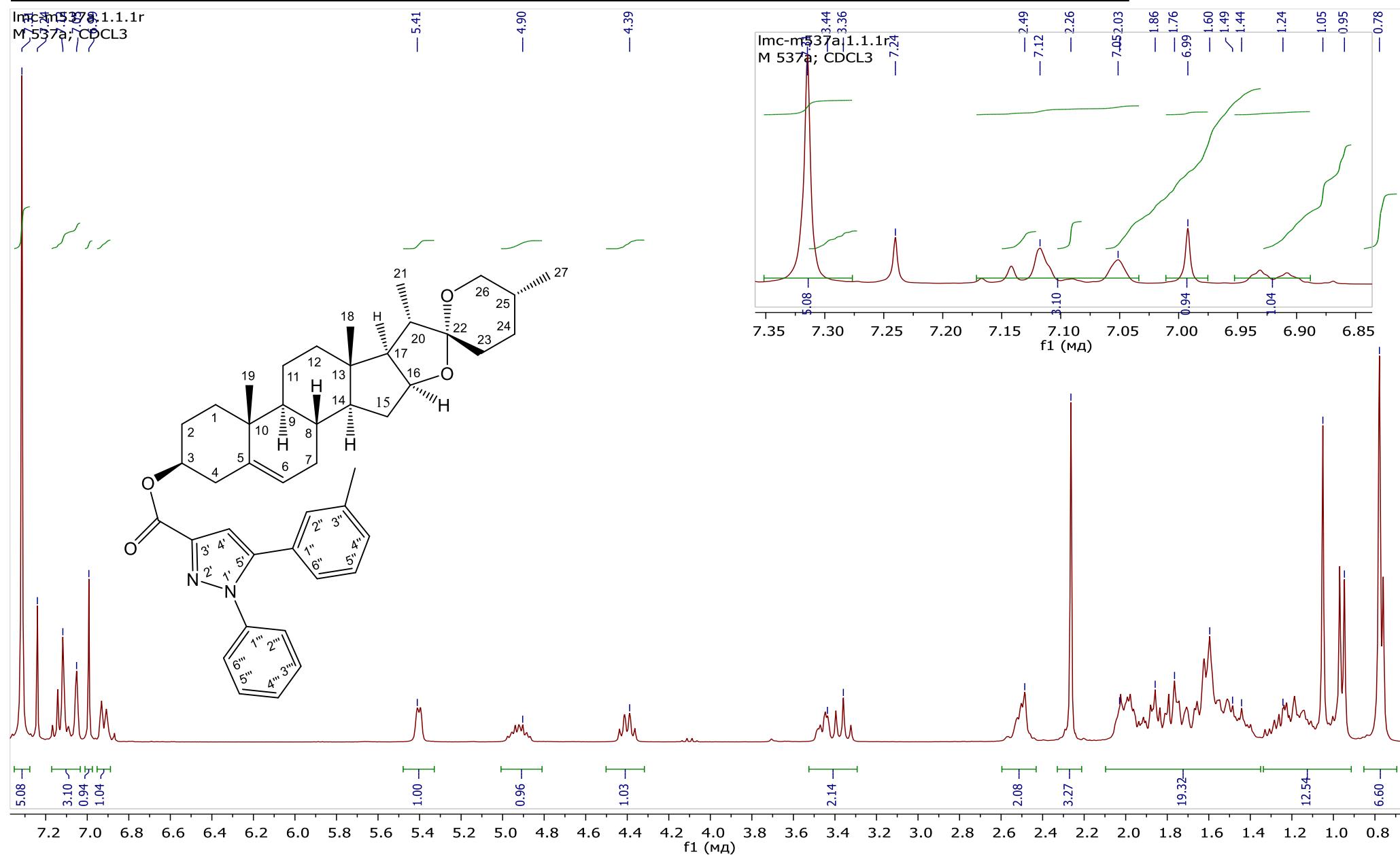
Compound 13 ((22*R*,25*R*)-spirost-5-en-3 β -yl 5-(4-fluorophenyl)-1-phenyl-1*H*-pyrazole-3-carboxylate), ^1H NMR, 400 MHz, CDCl_3



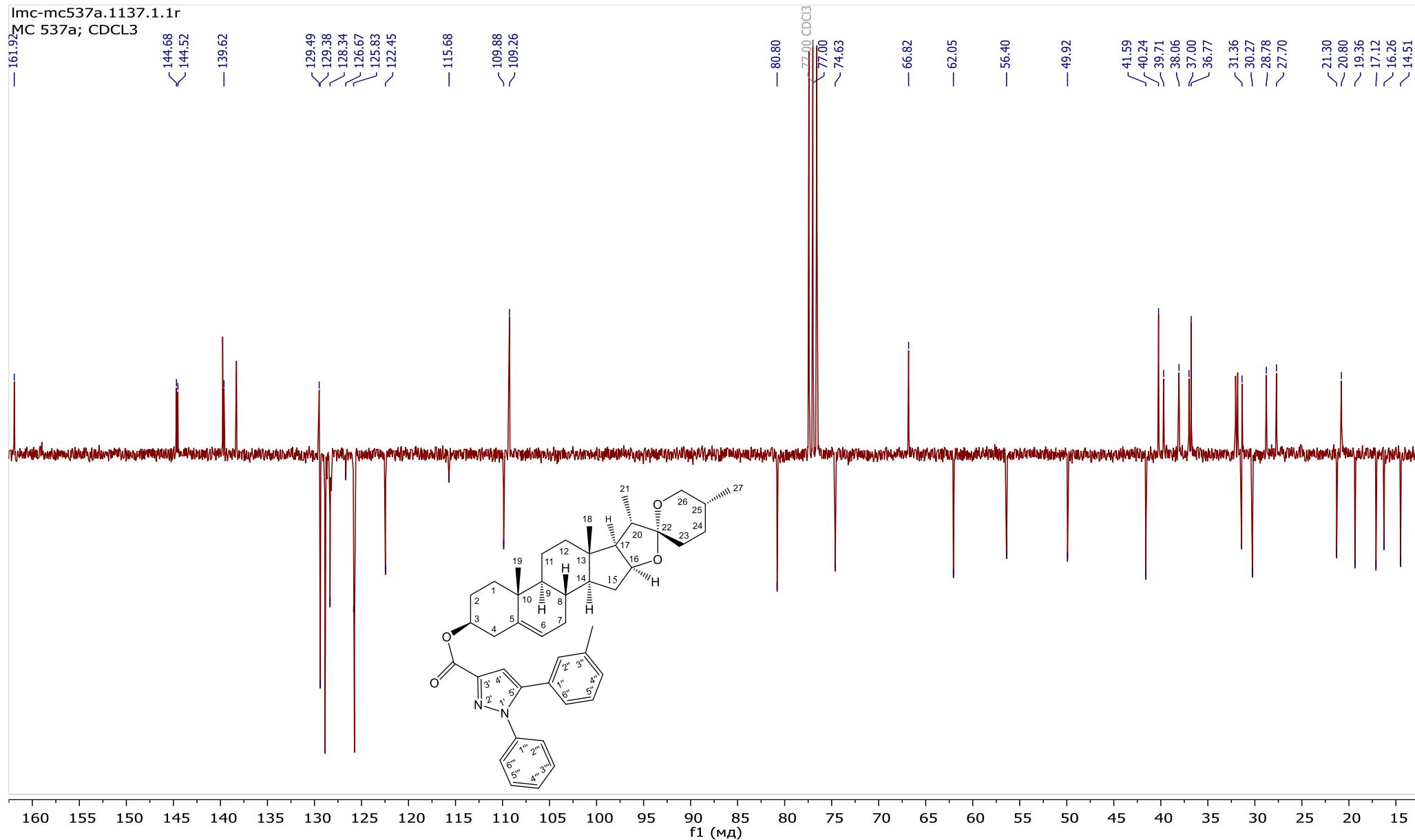
Compound 13 ((22*R*,25*R*)-spirost-5-en-3 β -yl 5-(4-fluorophenyl)-1-phenyl-1*H*-pyrazole-3-carboxylate), ^{13}C NMR, 101 MHz, CDCl_3



Compound 14 ((22*R*,25*R*)-spirost-5-en-3 β -yl 1-phenyl-5-(*m*-tolyl)-1*H*-pyrazole-3-carboxylate), ^1H NMR, 300 MHz, CDCl₃

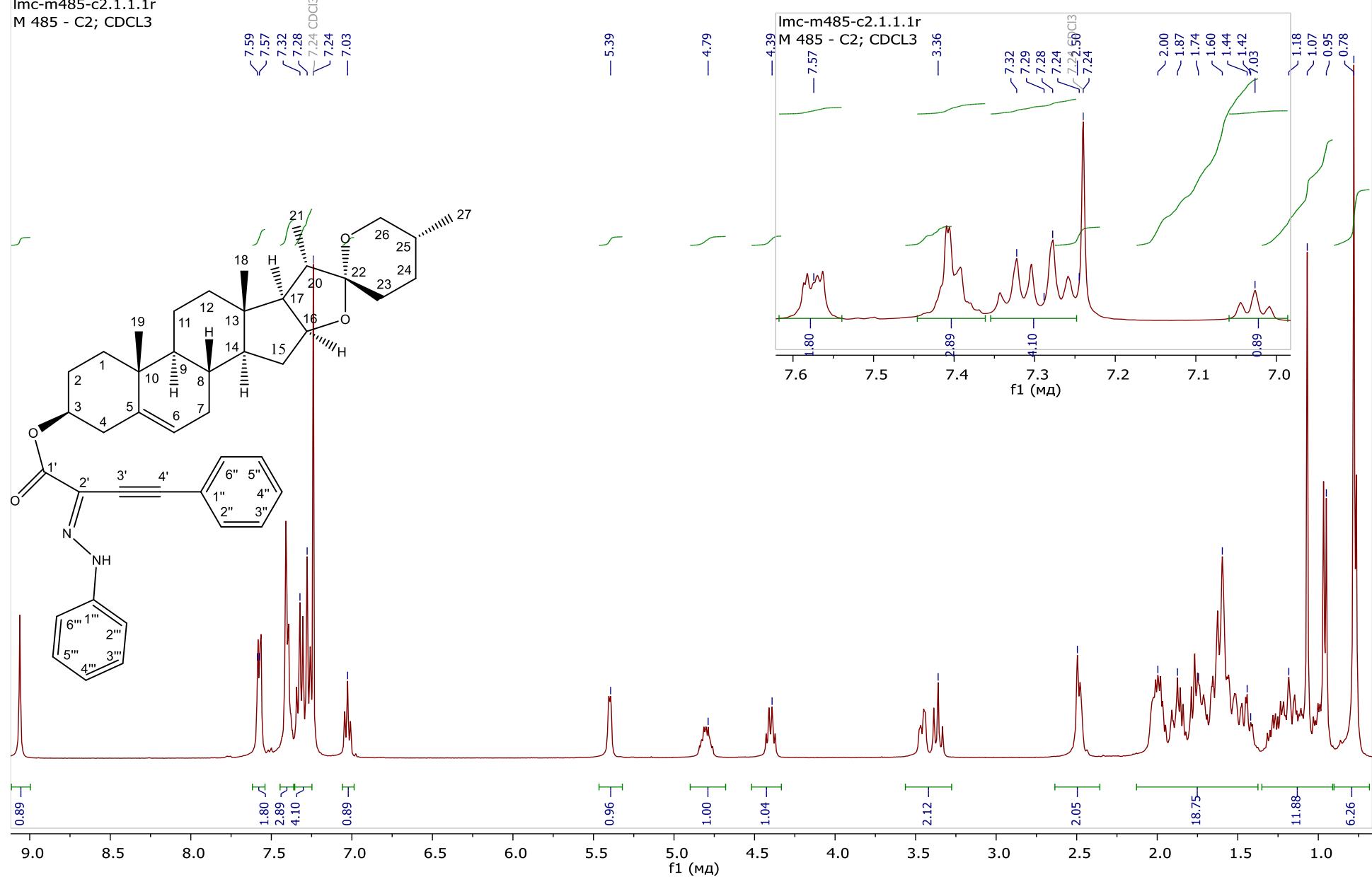
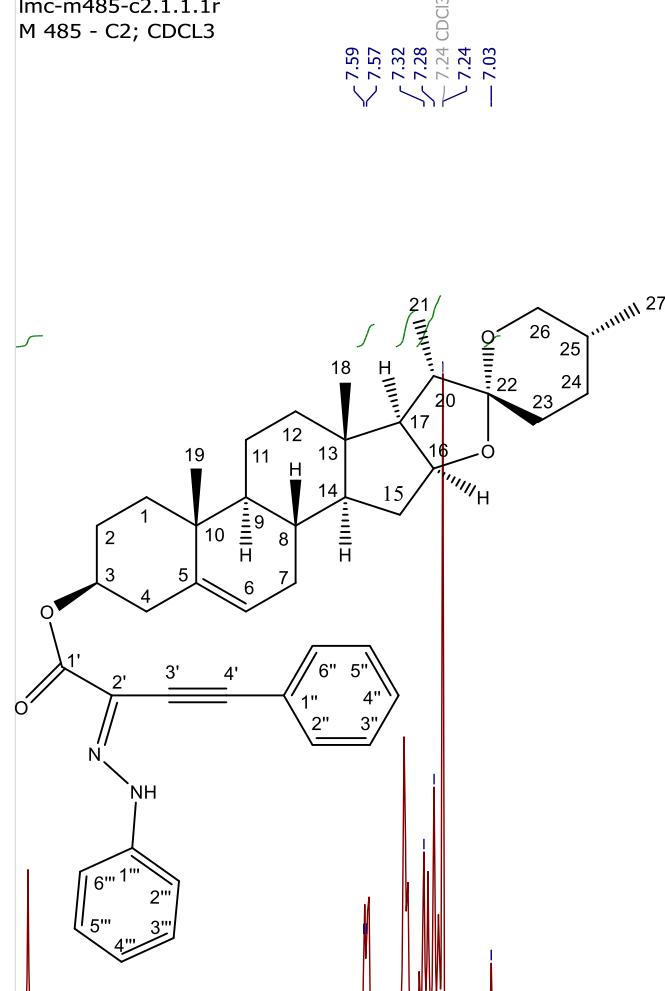


Compound 14 ((22*R*,25*R*)-spirost-5-en-3 β -yl 1-phenyl-5-(*m*-tolyl)-1*H*-pyrazole-3-carboxylate), ^{13}C NMR, 75 MHz,

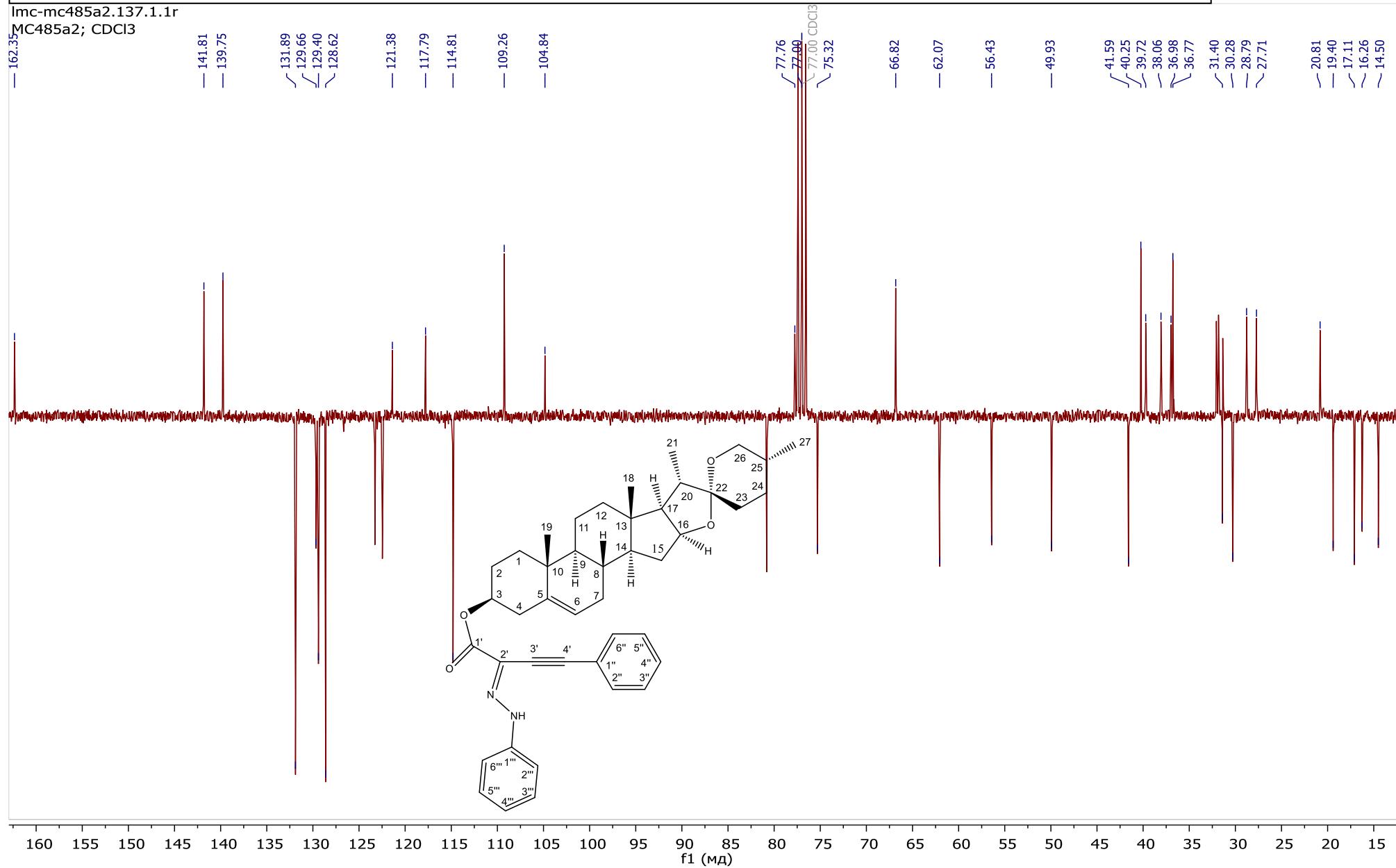


Compound 15 ((22*R*,25*R*)-spirost-5-en-3 β -yl (*E*)-4-phenyl-2-(2-phenylhydrazineylidene)but-3-ynoate), ^1H NMR, 300 MHz, CDCl_3

Imc-m485-c2.1.1.1r
M 485 - C2; CDCL3

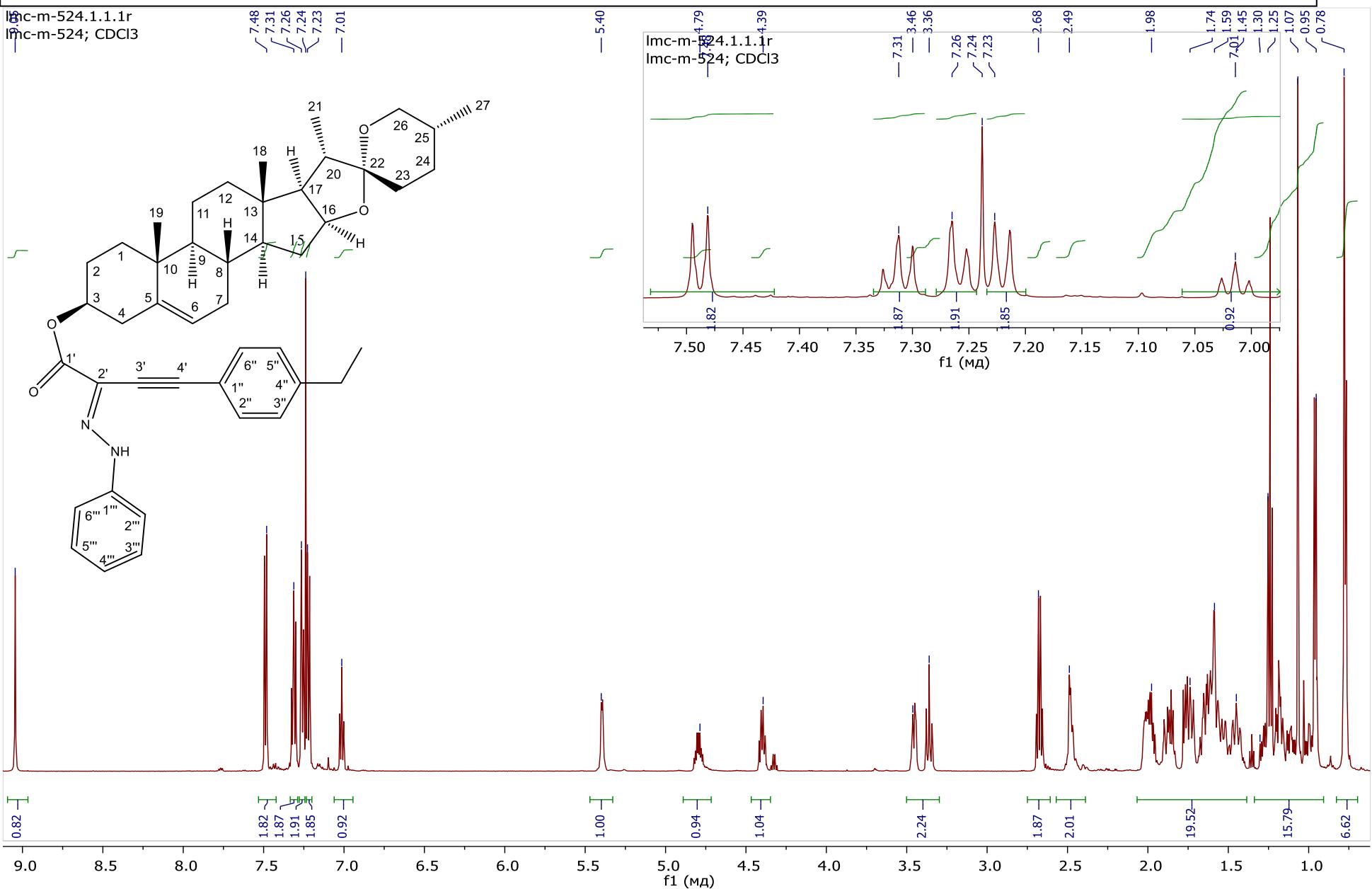
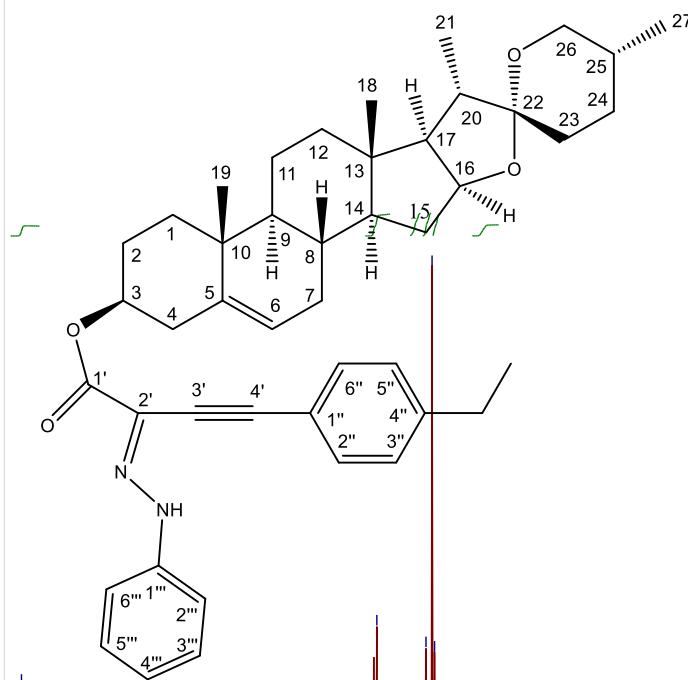


Compound 15 ((22*R*,25*R*)-spirost-5-en-3 β -yl (*E*)-4-phenyl-2-(2-phenylhydrazineylidene)but-3-ynoate), ^{13}C NMR, 75 MHz, CDCl_3

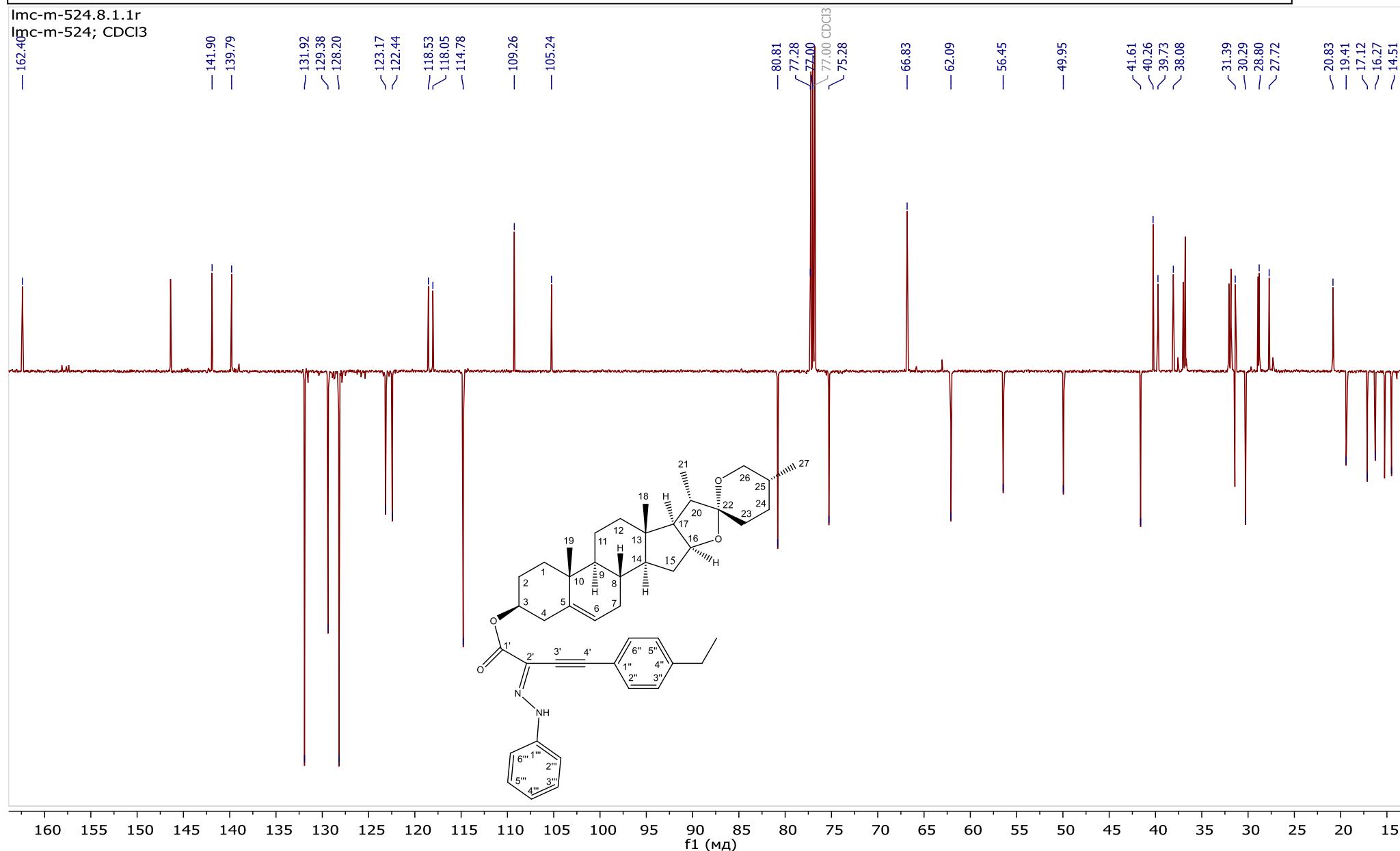


Compound 16 ((22*R*,25*R*)-spirost-5-en-3 β -yl (*E*)-4-(4-ethylphenyl)-2-(2-phenylhydrazineylidene)but-3-ynoate), ^1H NMR, 600 MHz, CDCl_3

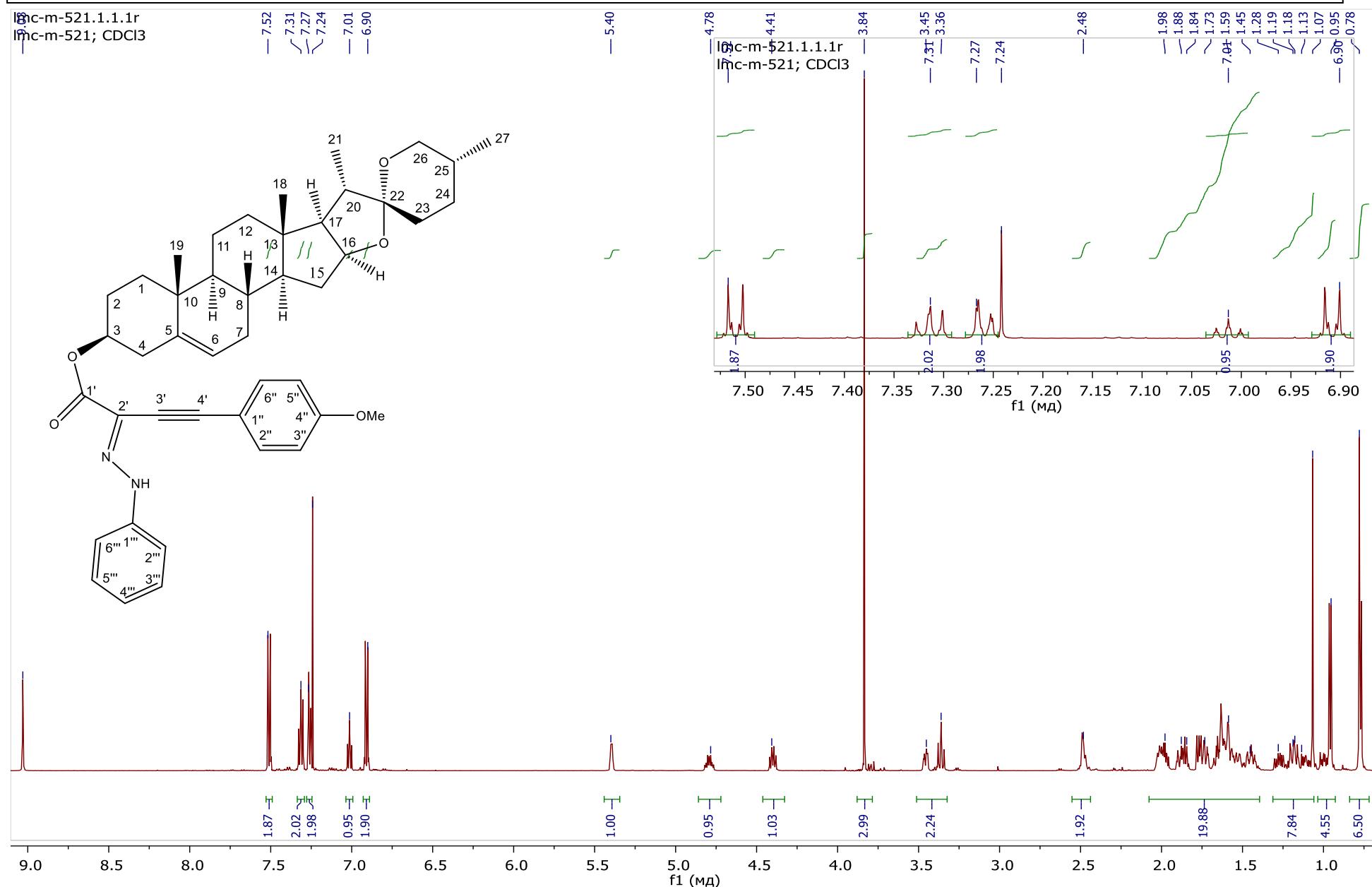
Imc-m-524.1.1.r
Imc-m-524; CDCI3



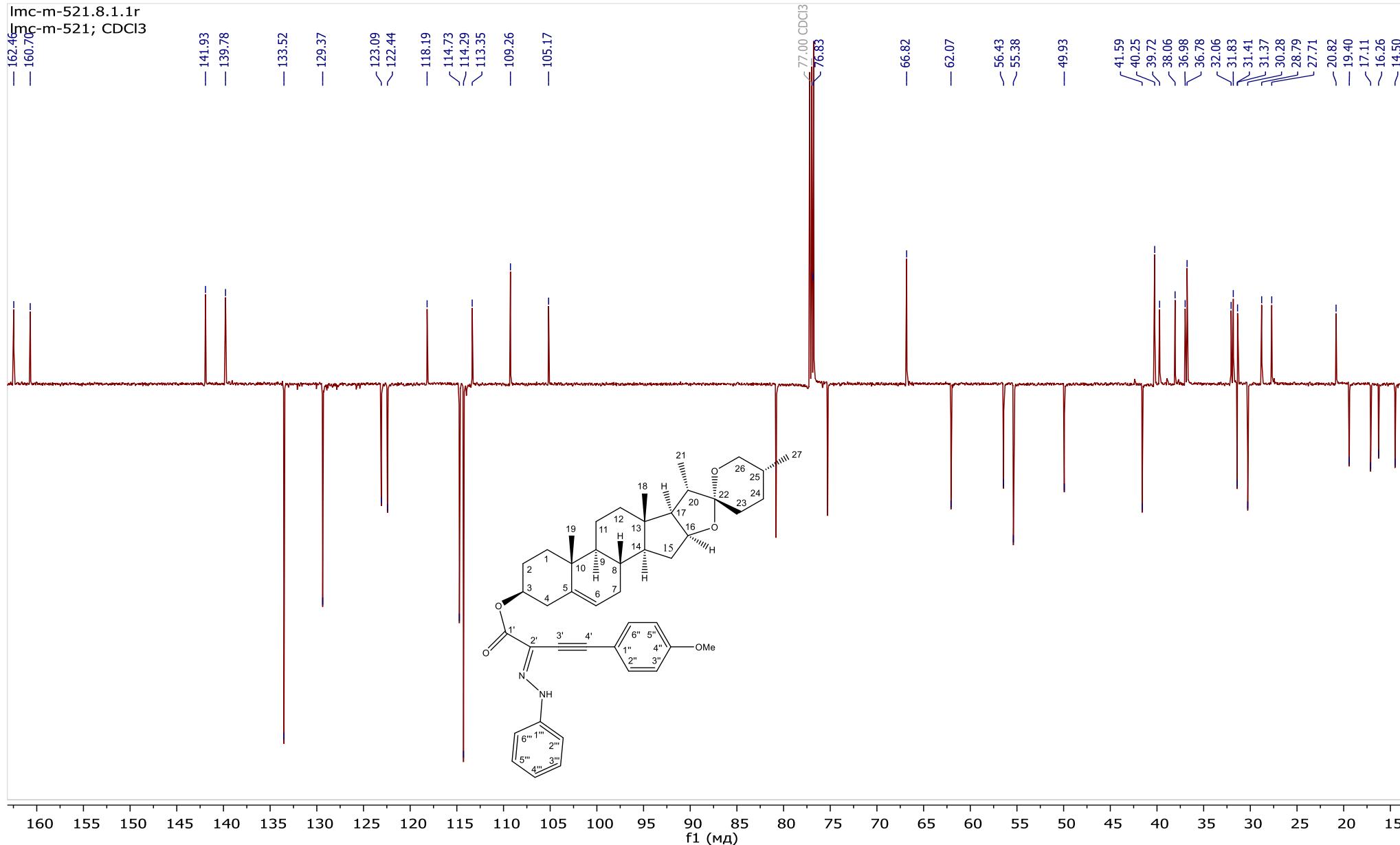
Compound 16 ((22*R*,25*R*)-spirost-5-en-3 β -yl (*E*)-4-(4-ethylphenyl)-2-(2-phenylhydrazineylidene)but-3-ynoate), ^{13}C NMR, 151 MHz, CDCl_3



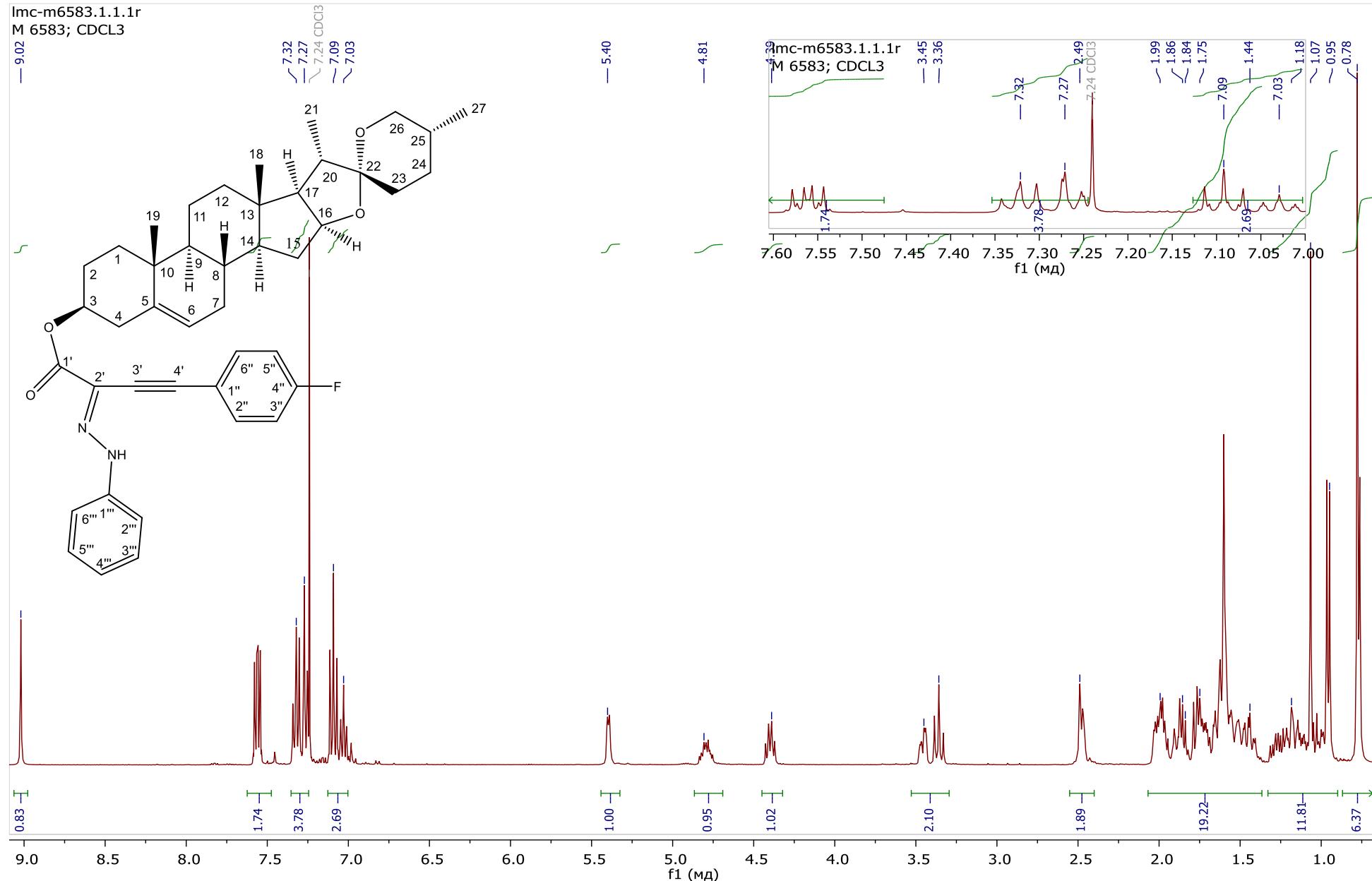
Compound 17 ((22*R*,25*R*)-spirost-5-en-3 β -yl (*E*)-4-(4-methoxyphenyl)-2-(2-phenylhydrazineylidene)but-3-ynoate), ^1H NMR, 600 MHz, CDCl_3



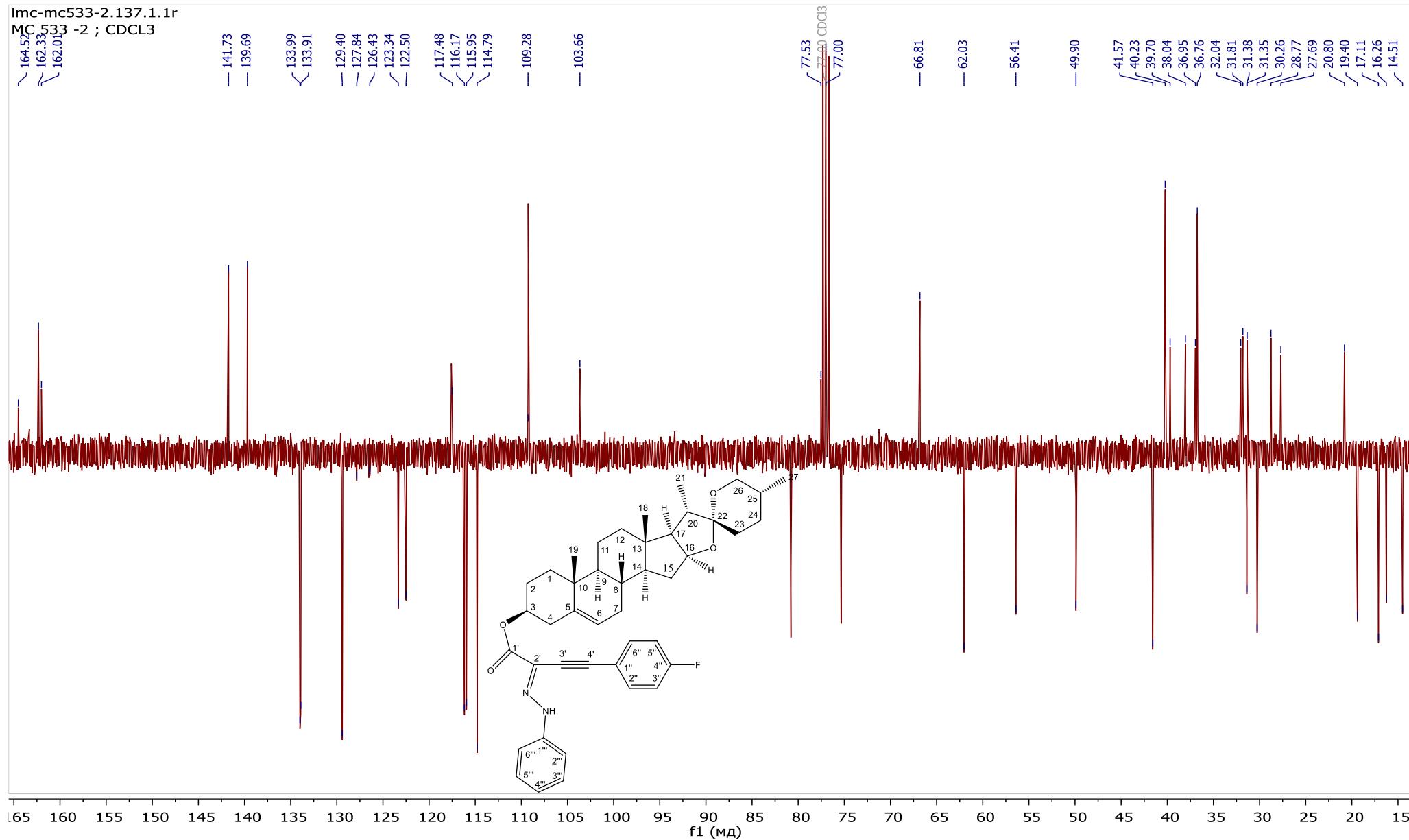
Compound 17 ((22*R*,25*R*)-spirost-5-en-3 β -yl (*E*)-4-(4-methoxyphenyl)-2-(2-phenylhydrazineylidene)but-3-ynoate), ^{13}C NMR, 151 MHz, CDCl_3



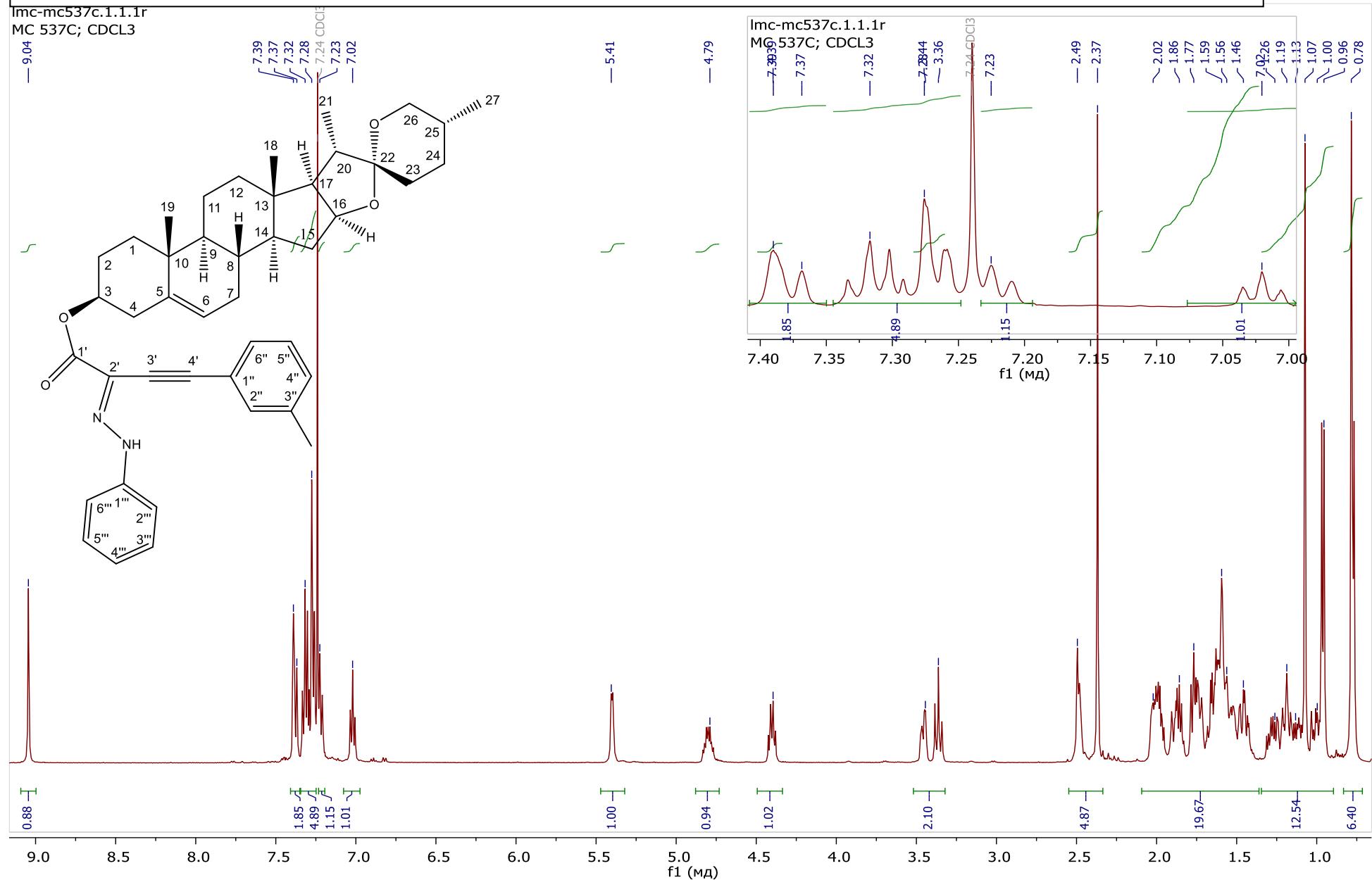
Compound 18 (*22R,25R*)-spirost-5-en-3 β -yl (*E*)-4-(4-fluorophenyl)-2-(2-phenylhydrazineylidene)but-3-ynoate, ^1H NMR, 400 MHz, CDCl_3



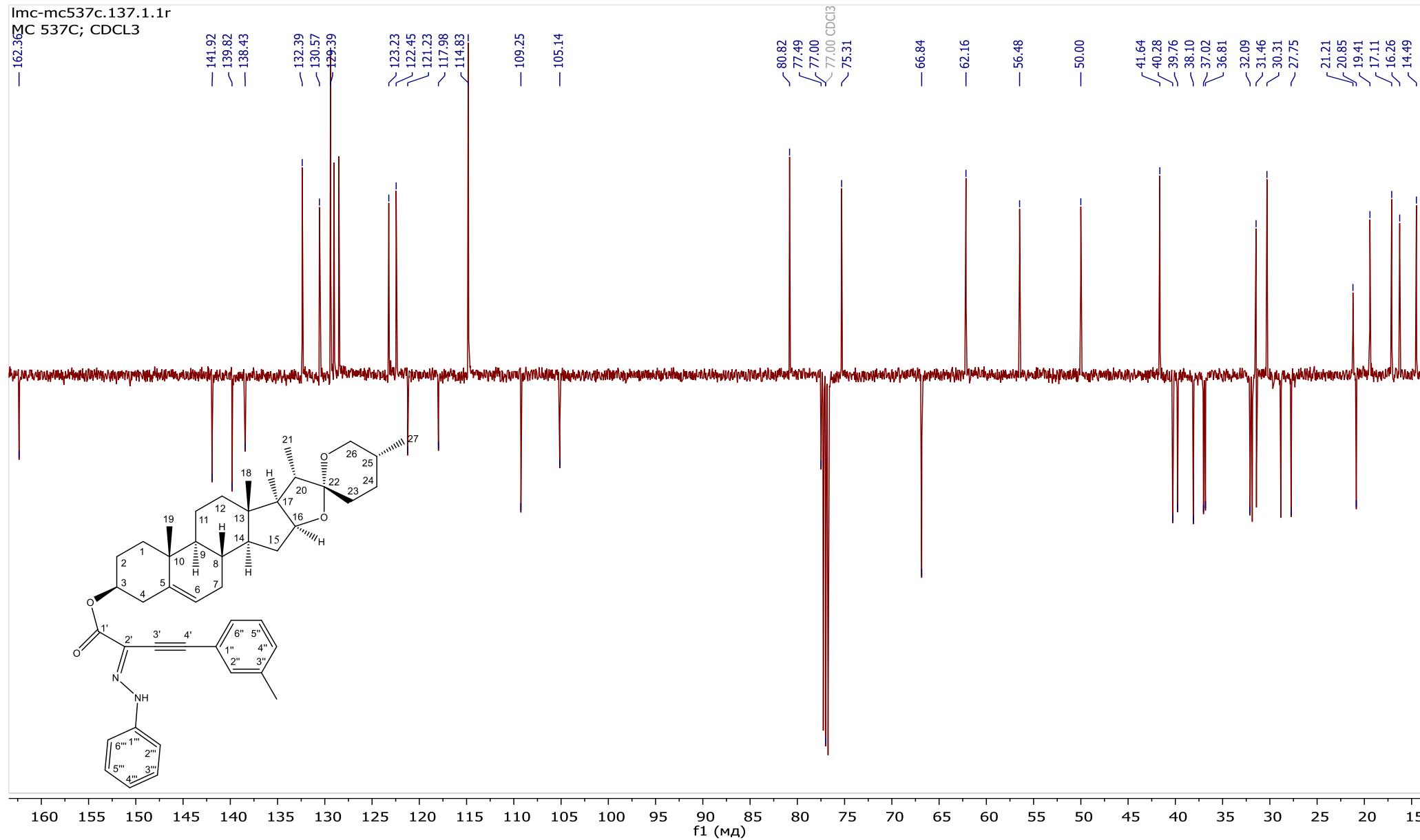
Compound 18 (*22R,25R*)-spirost-5-en-3 β -yl (*E*)-4-(4-fluorophenyl)-2-(2-phenylhydrazineylidene)but-3-ynoate, ^{13}C NMR, 101 MHz, CDCl_3



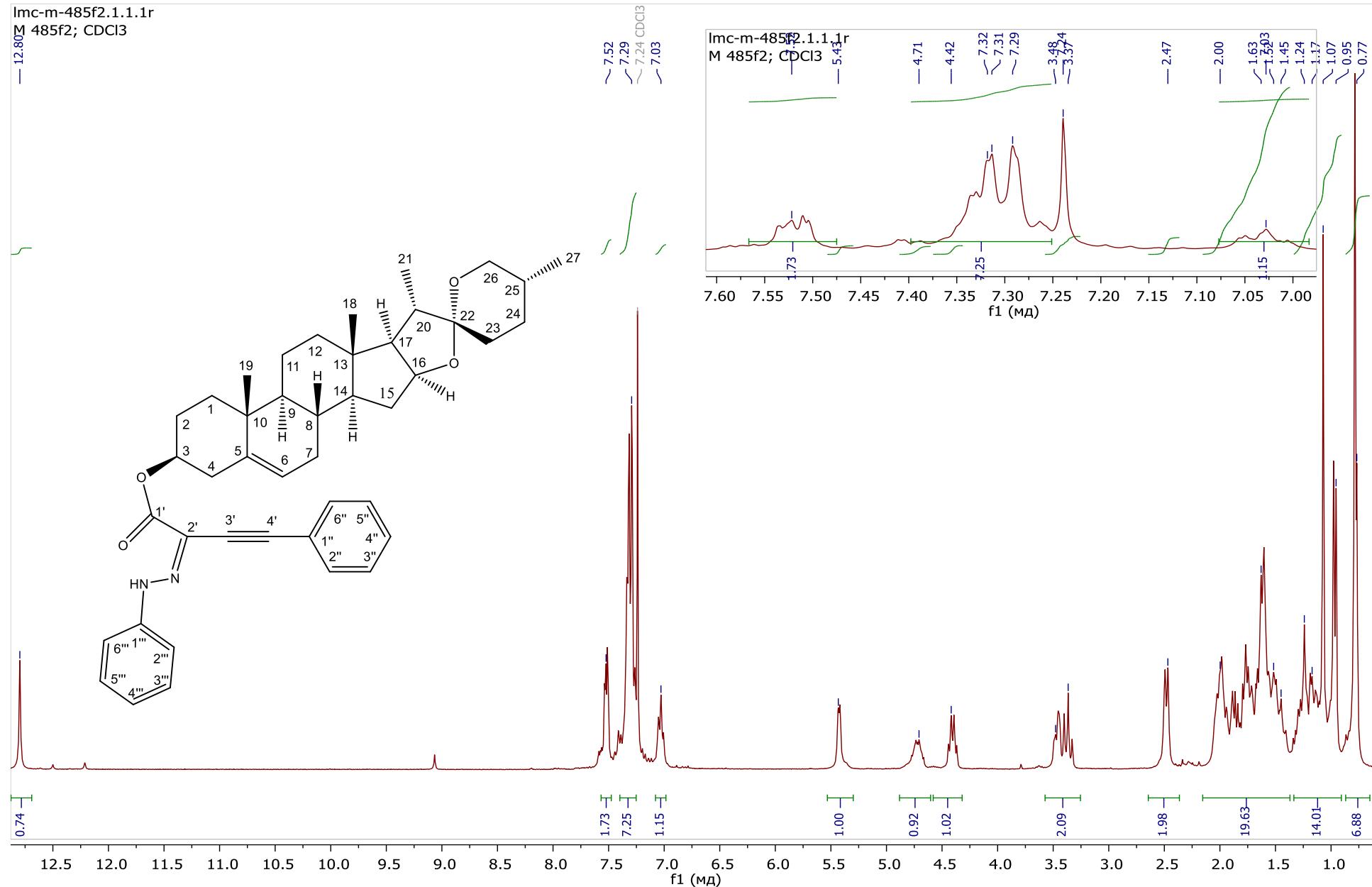
Compound 19 ((22*R*,25*R*)-spirost-5-en-3 β -yl (*E*)-2-(2-phenylhydrazineylidene)-4-(*m*-tolyl)but-3-ynoate), ^1H NMR, 500 MHz, CDCl_3



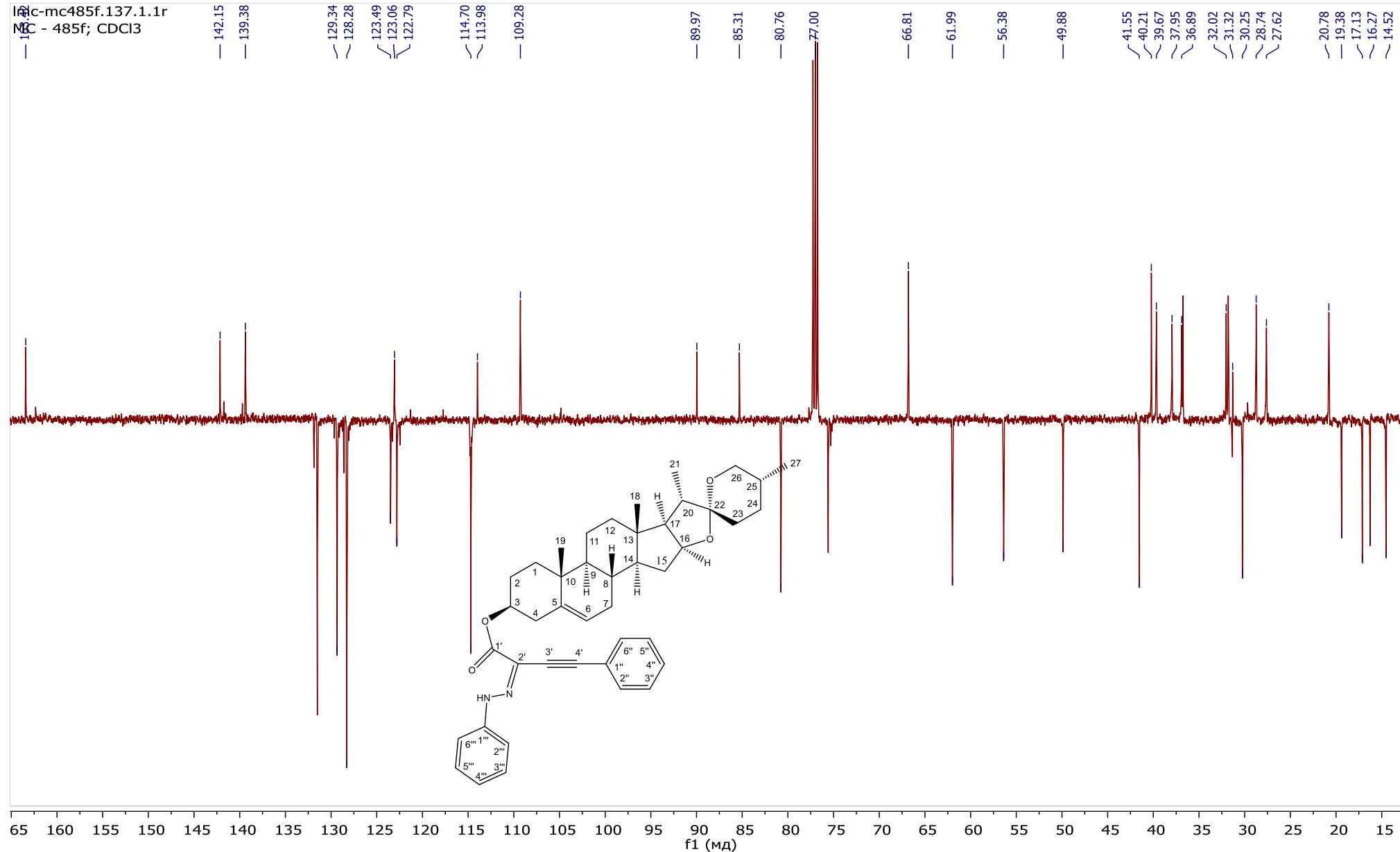
Compound 19 ((22*R*,25*R*)-spirost-5-en-3 β -yl (*E*)-2-(2-phenylhydrazineylidene)-4-(*m*-tolyl)but-3-ynoate), ^{13}C NMR, 126 MHz, CDCl₃



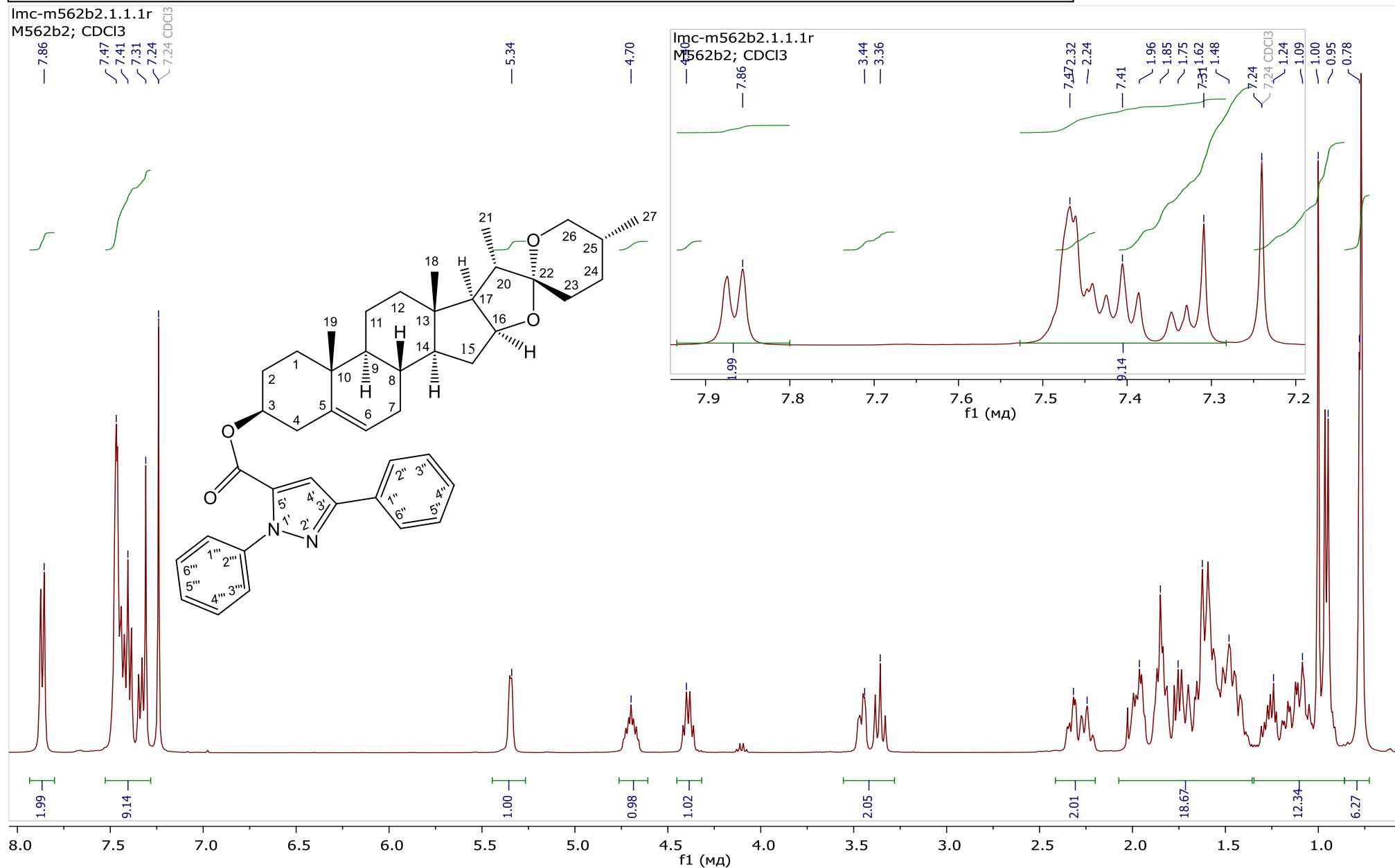
Compound 20 ((22*R*,25*R*)-spirost-5-en-3 β -yl (*Z*)-4-phenyl-2-(2-phenylhydrazineylidene)but-3-ynoate), ^1H NMR, 300 MHz, CDCl_3



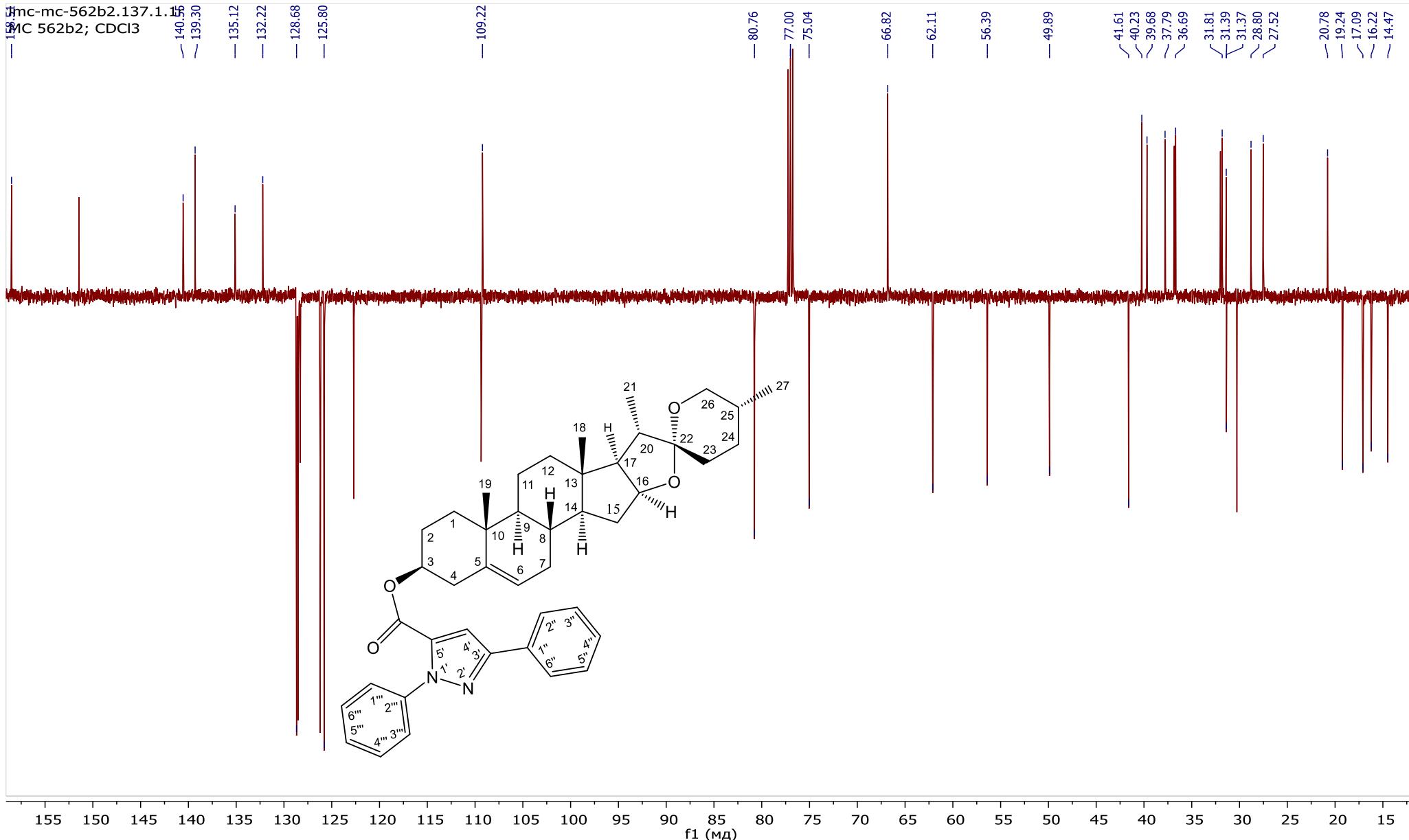
Compound 20 ((22*R*,25*R*)-spirost-5-en-3 β -yl (*Z*)-4-phenyl-2-(2-phenylhydrazineylidene)but-3-ynoate), ^{13}C NMR, 126 MHz, CDCl_3



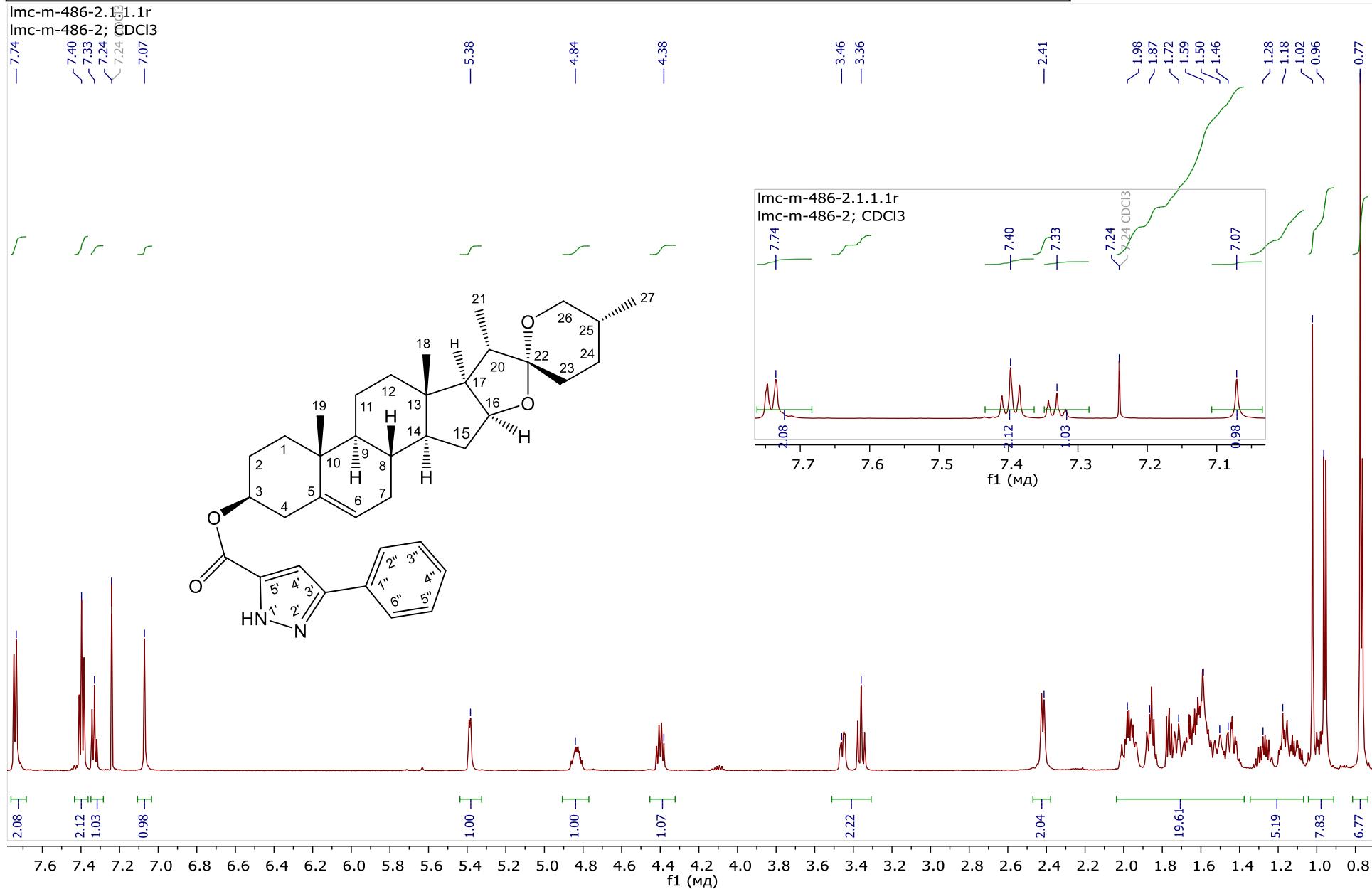
Compound 21 ((22*R*,25*R*)-spirost-5-en-3 β -yl 1,3-diphenyl-1*H*-pyrazole-5-carboxylate), ^1H NMR, 600 MHz, CDCl_3



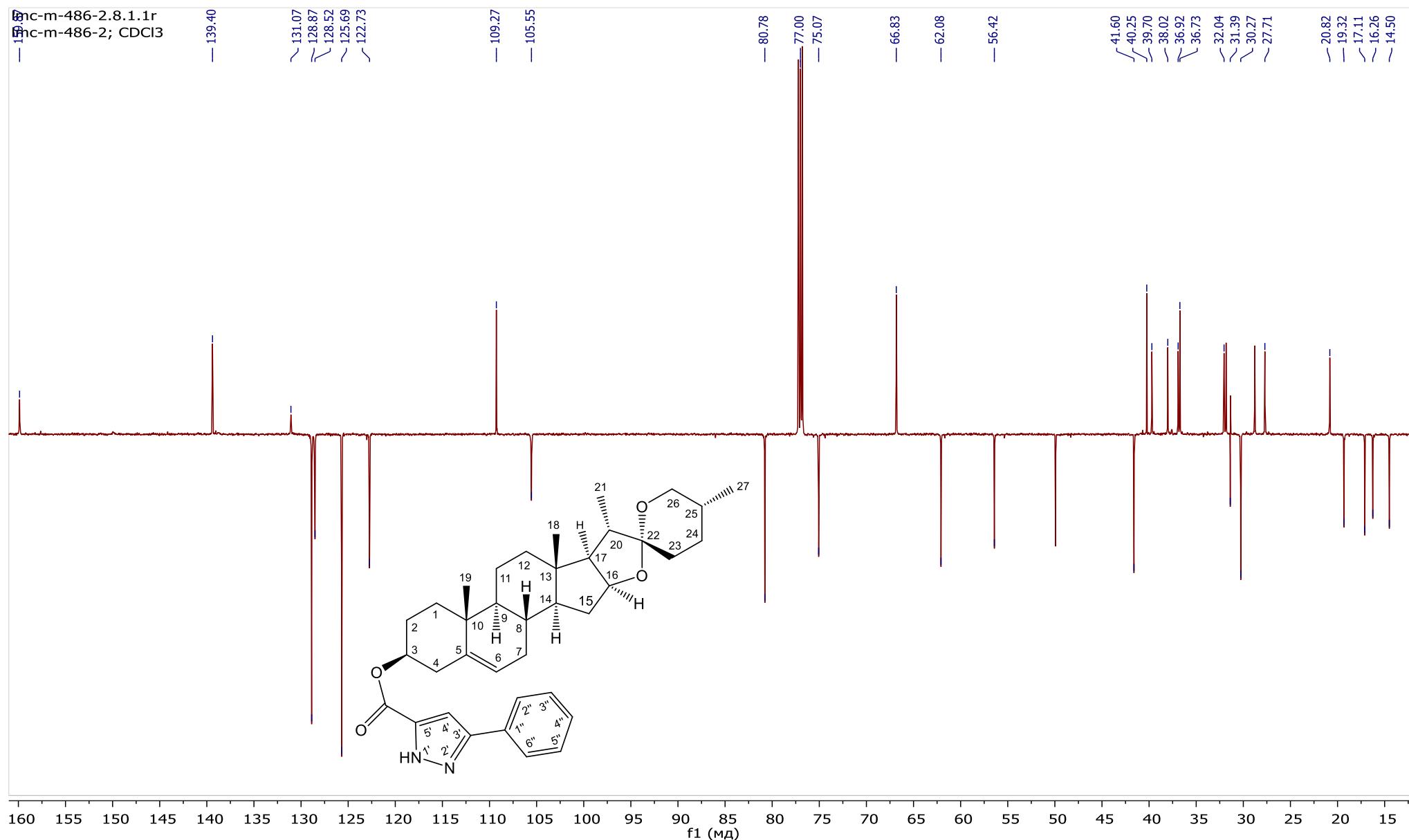
Compound 21 ((22*R*,25*R*)-spirost-5-en-3 β -yl 1,3-diphenyl-1*H*-pyrazole-5-carboxylate), ^{13}C NMR, 126 MHz, CDCl_3



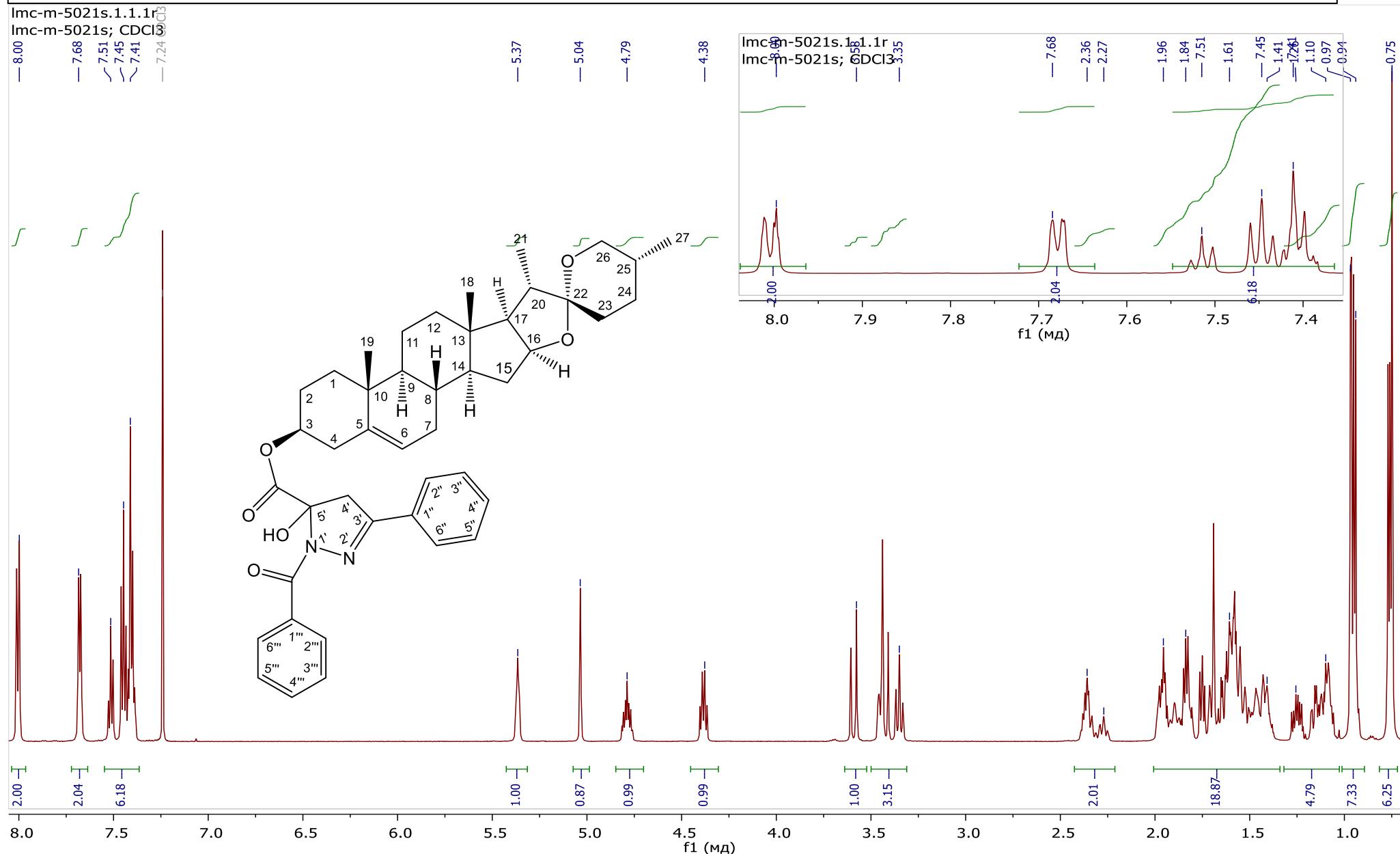
Compound 23 ((22*R*,25*R*)-spirost-5-en-3 β -yl 3-phenyl-1*H*-pyrazole-5-carboxylate), ^1H NMR, 600 MHz, CDCl_3



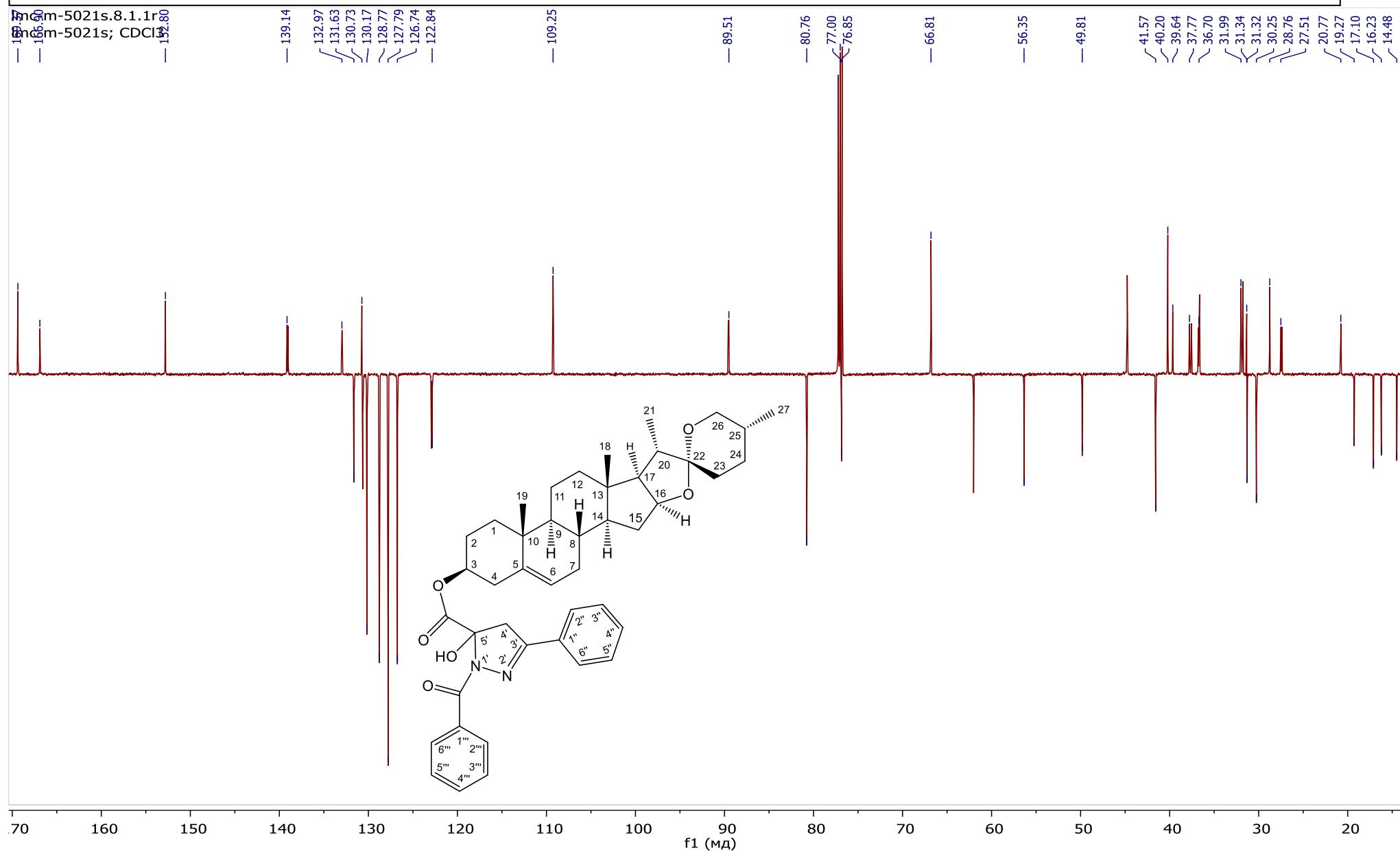
Compound 23 ((22*R*,25*R*)-spirost-5-en-3 β -yl 3-phenyl-1*H*-pyrazole-5-carboxylate), ^{13}C NMR, 151 MHz, CDCl_3



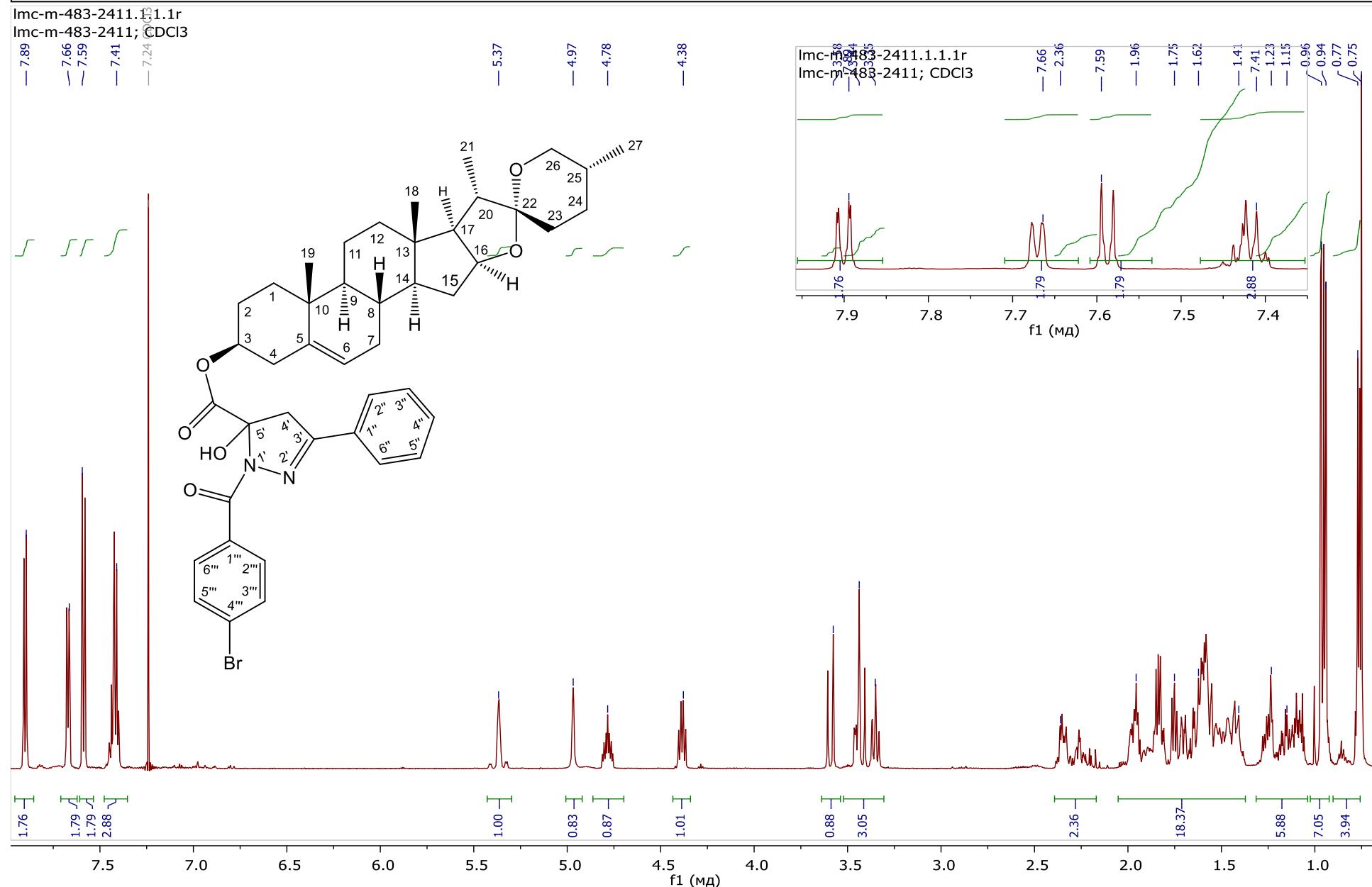
Compound 25 ((22*R*,25*R*)-spirost-5-en-3 β -yl 2-benzoyl-3-hydroxy-5-phenyl-2,3-dihydro-1*H*-pyrazole-3-carboxylate), ^1H NMR, 600 MHz, CDCl_3



Compound 25 ((22*R*,25*R*)-spirost-5-en-3 β -yl 2-benzoyl-3-hydroxy-5-phenyl-2,3-dihydro-1*H*-pyrazole-3-carboxylate), ^{13}C NMR, 151 MHz, CDCl_3



Compound 26 ((22*R*,25*R*)-spirost-5-en-3 β -yl 1-(4-bromobenzoyl)-5-hydroxy-3-phenyl-4,5-dihydro-1*H*-pyrazole-5-carboxylate), ^1H NMR, 600 MHz, CDCl_3



Compound 26 ((22*R*,25*R*)-spirost-5-en-3 β -yl 1-(4-bromobenzoyl)-5-hydroxy-3-phenyl-4,5-dihydro-1*H*-pyrazole-5-carboxylate), ^{13}C NMR, 151 MHz, CDCl_3

