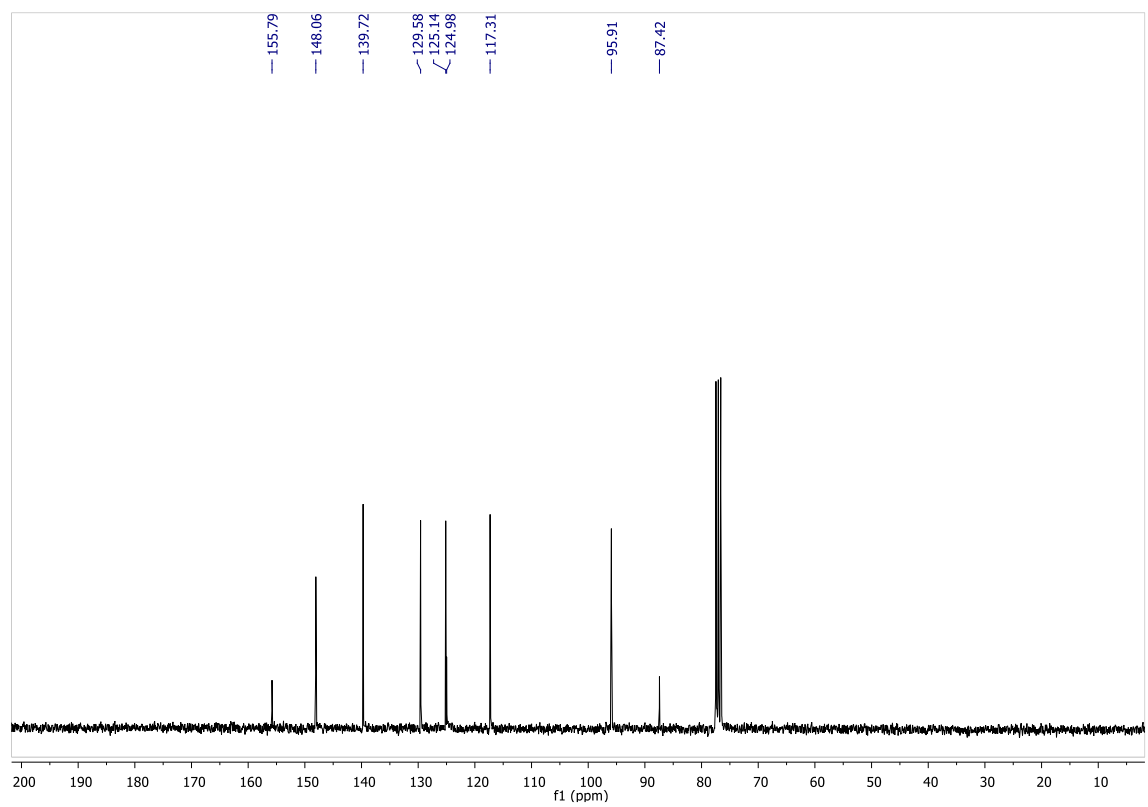
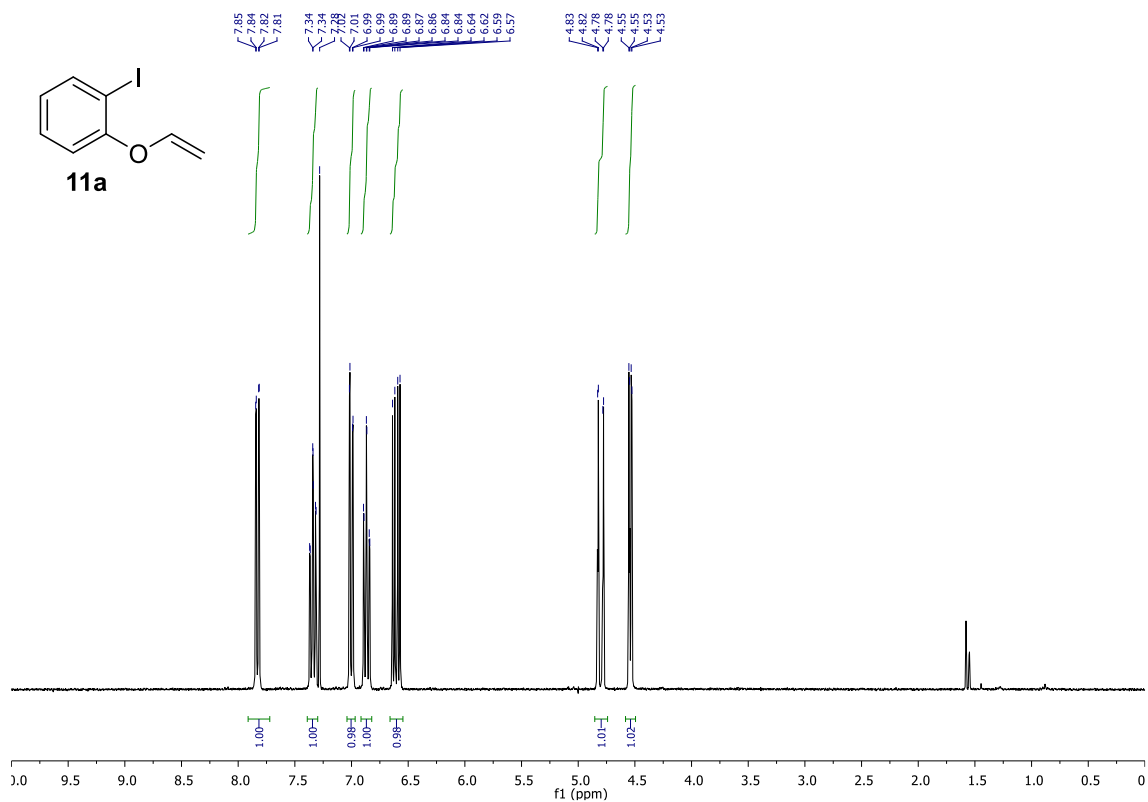
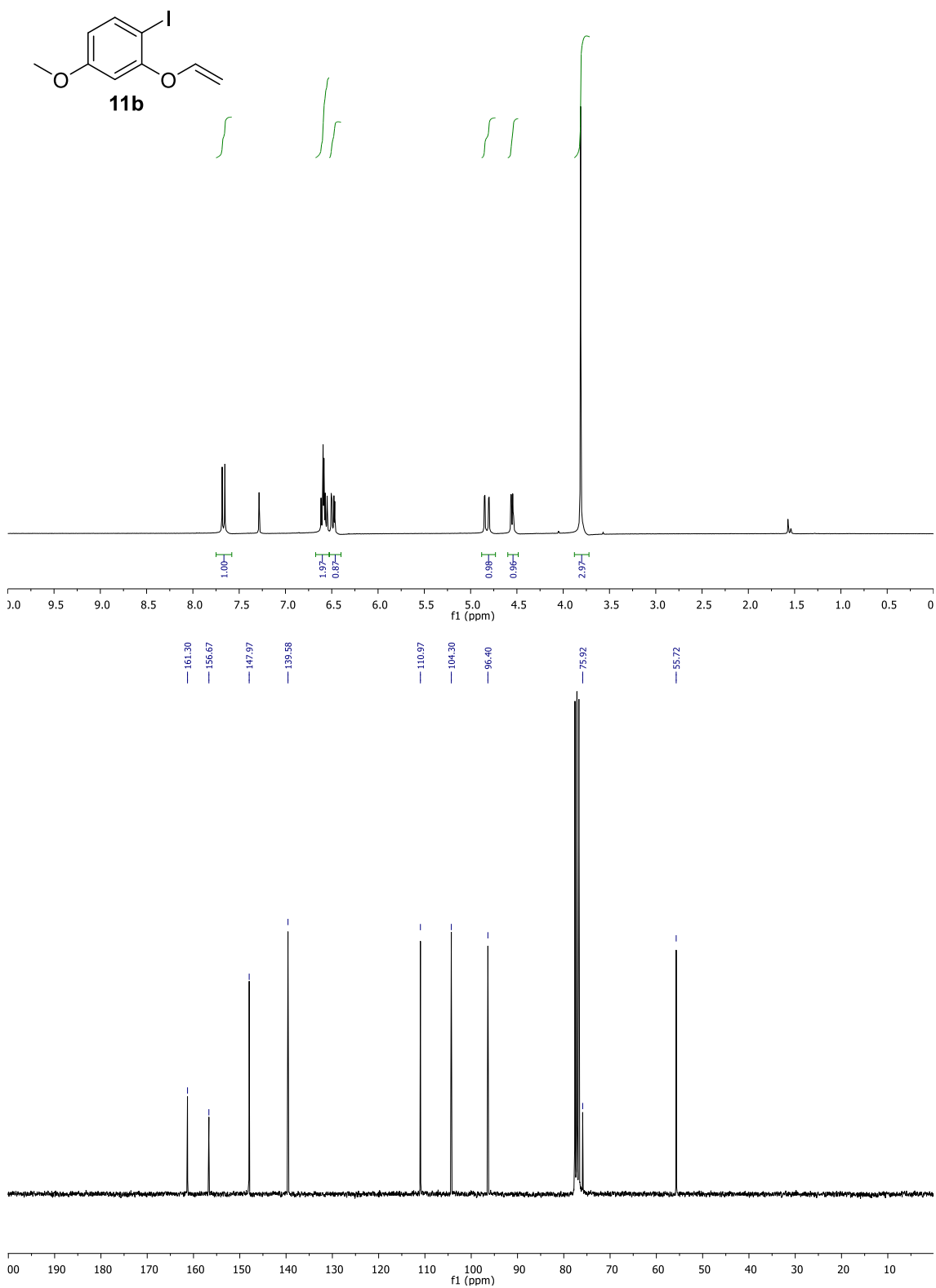


Copies of ^1H , ^{13}C , ^{19}F NMR spectra

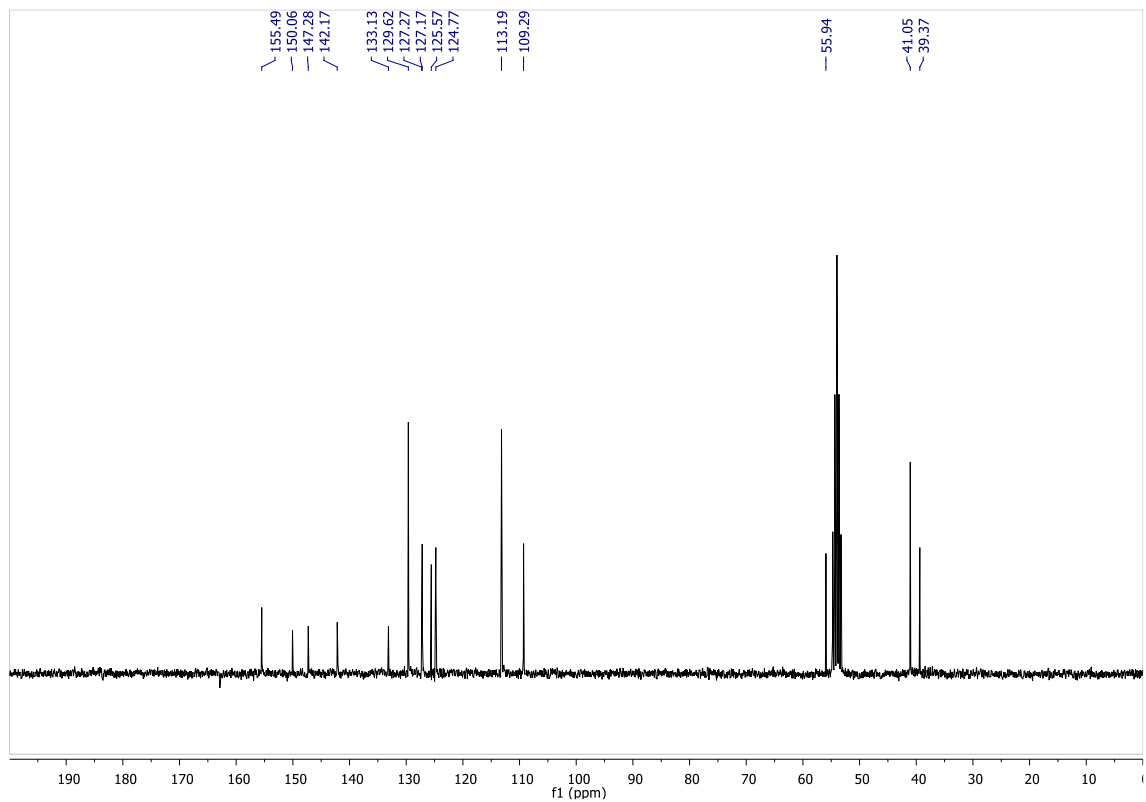
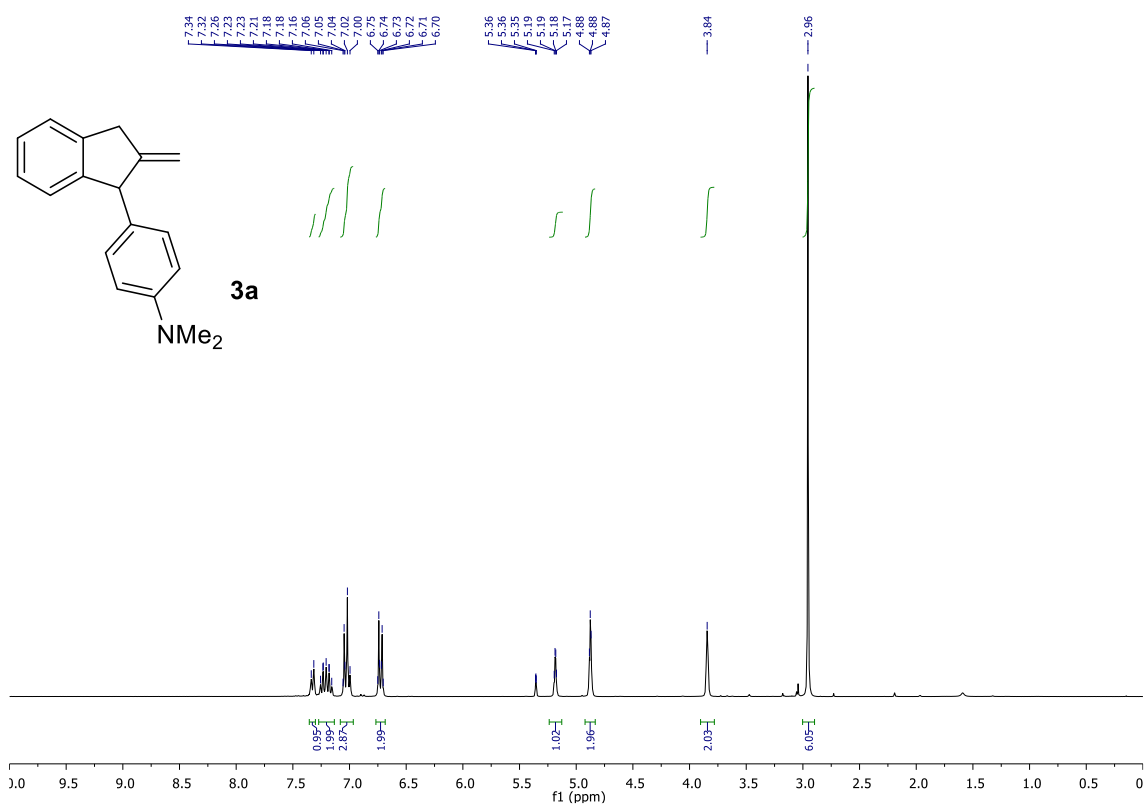
1-Iodo-2-(vinylloxy)benzene **11a**



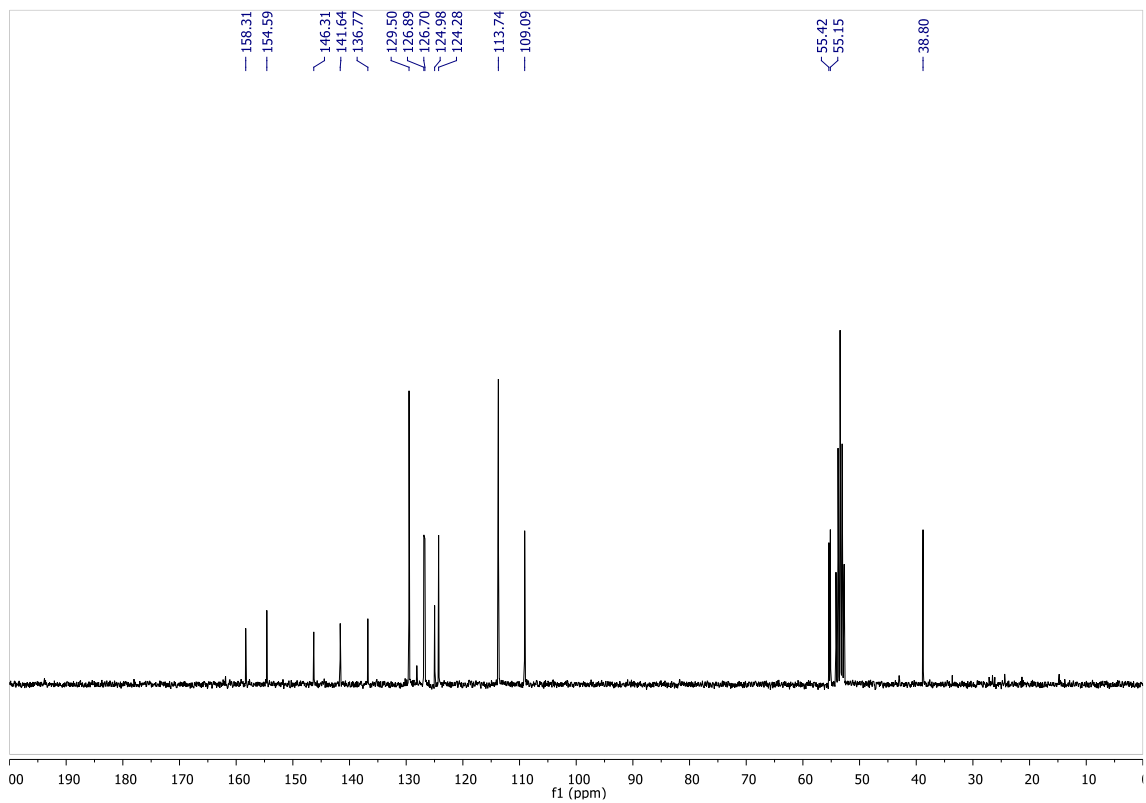
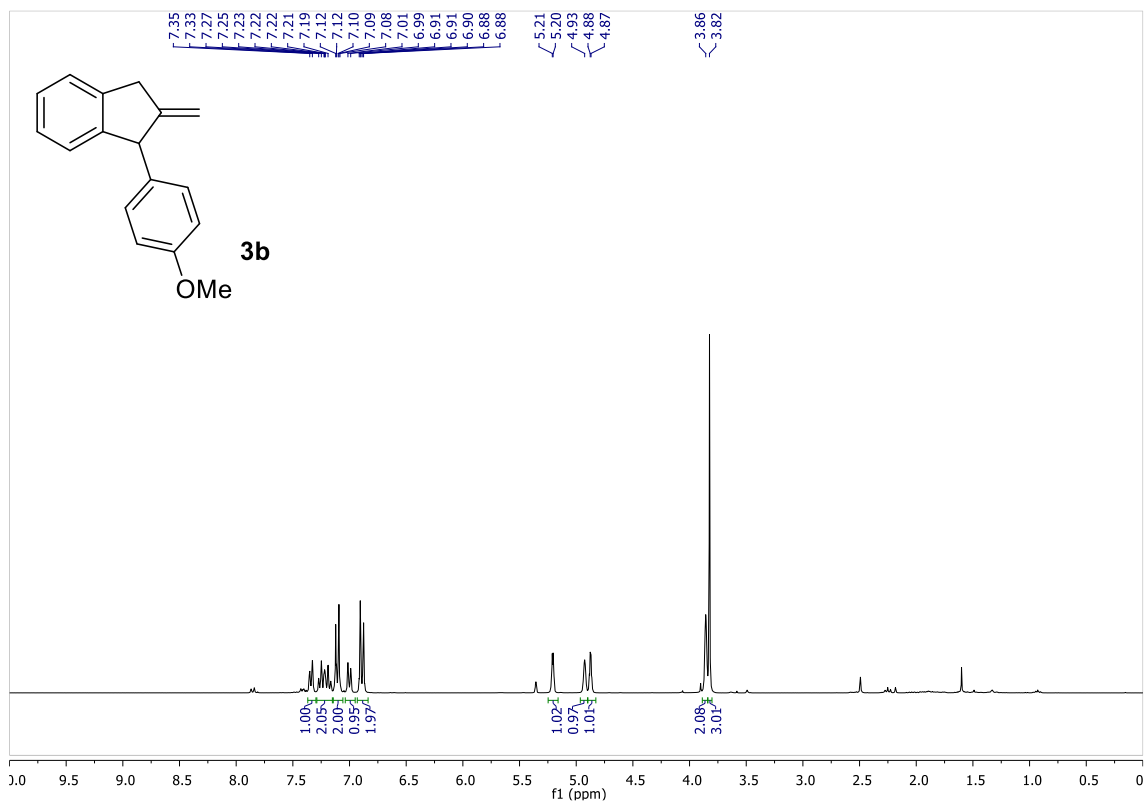
1-Iodo-4-methoxy-2-(vinylloxy)benzene 11b



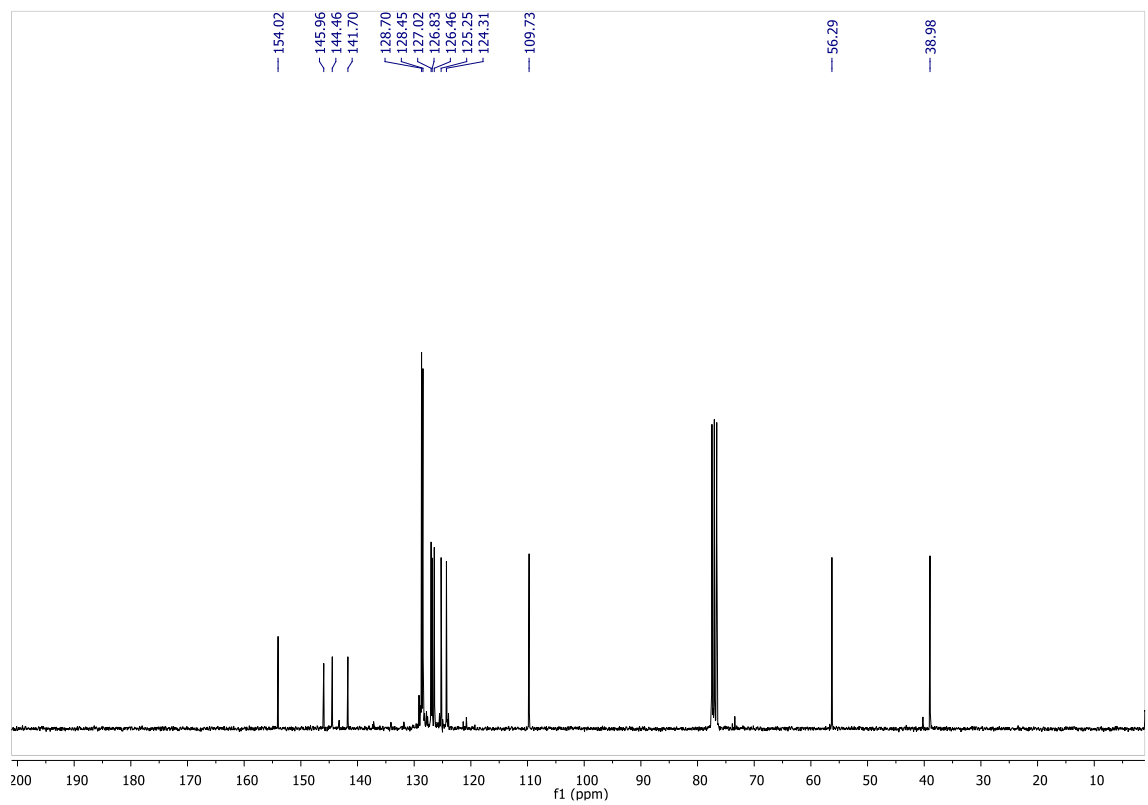
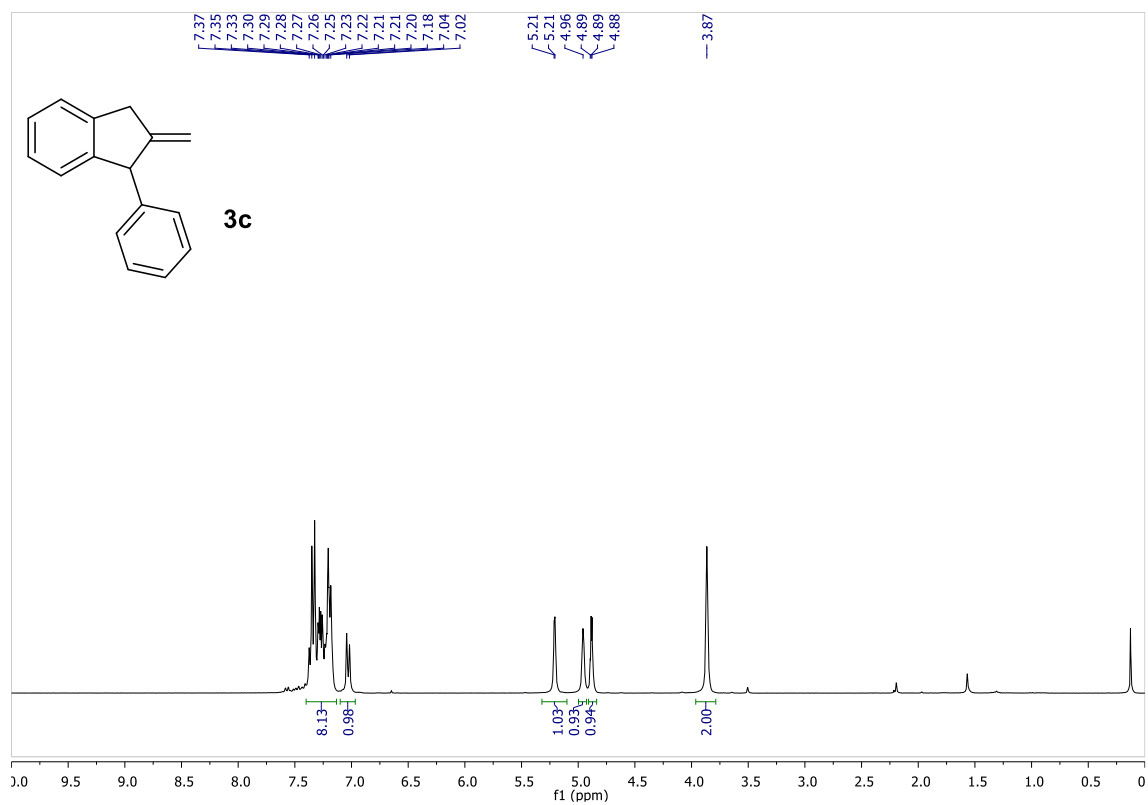
N,N*-Dimethyl-4-(2-methylene-2,3-dihydro-1*H*-inden-1-yl)aniline **3a*



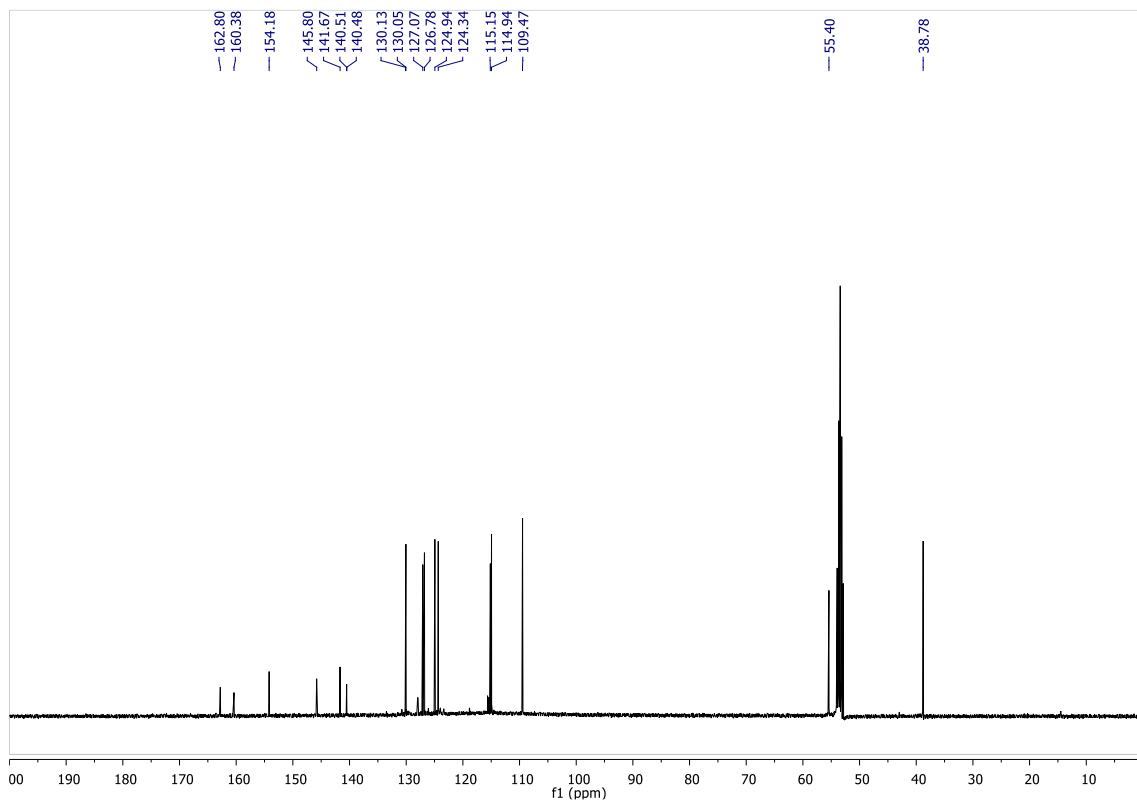
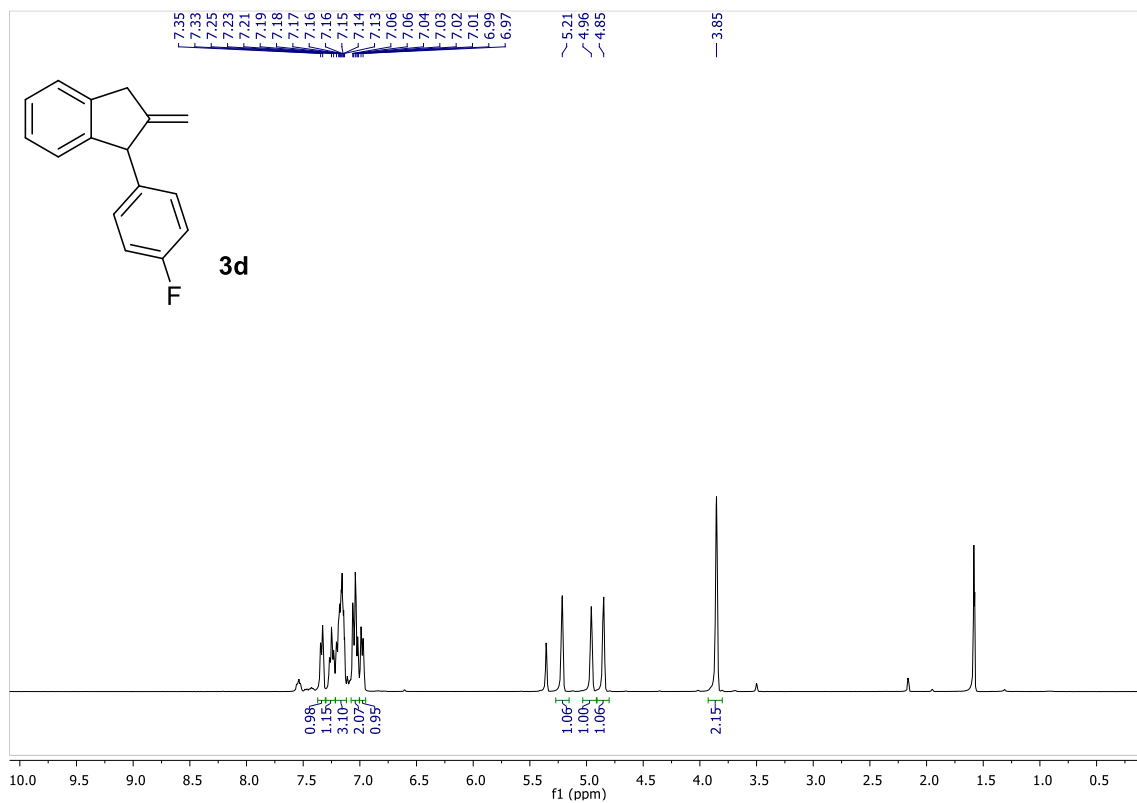
1-(4-Methoxyphenyl)-2-methylene-2,3-dihydro-1H-indene **3b**



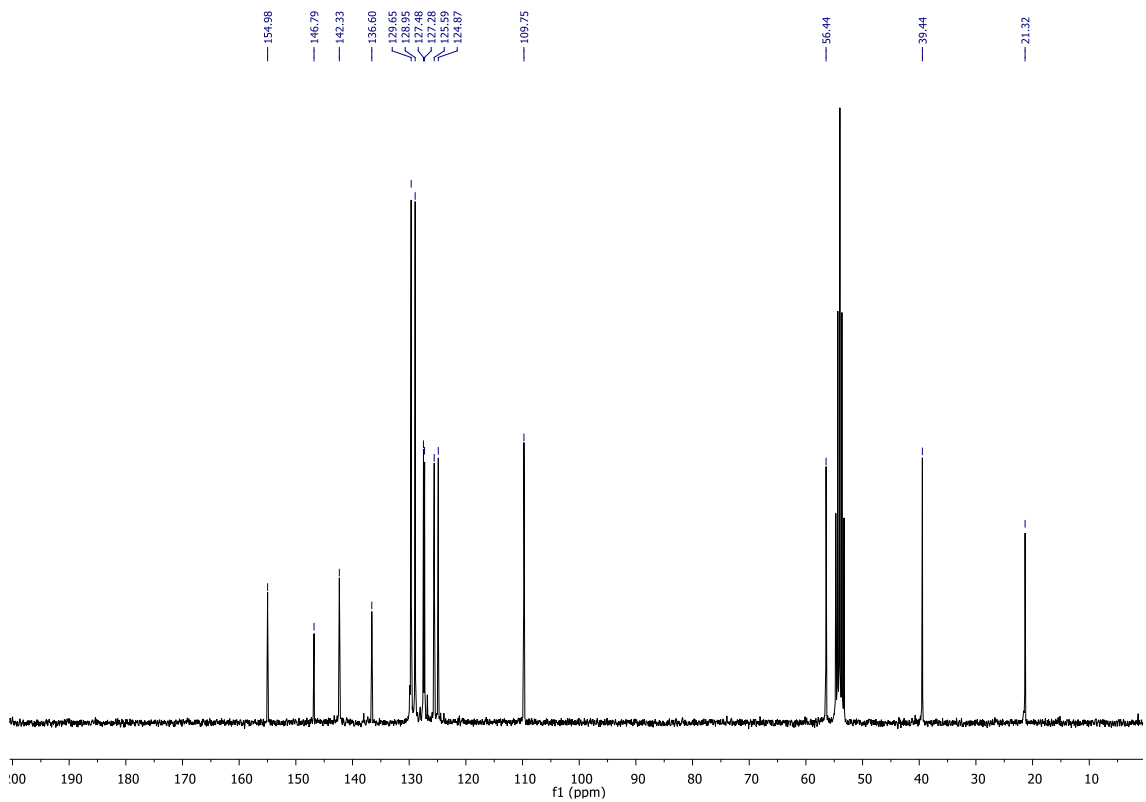
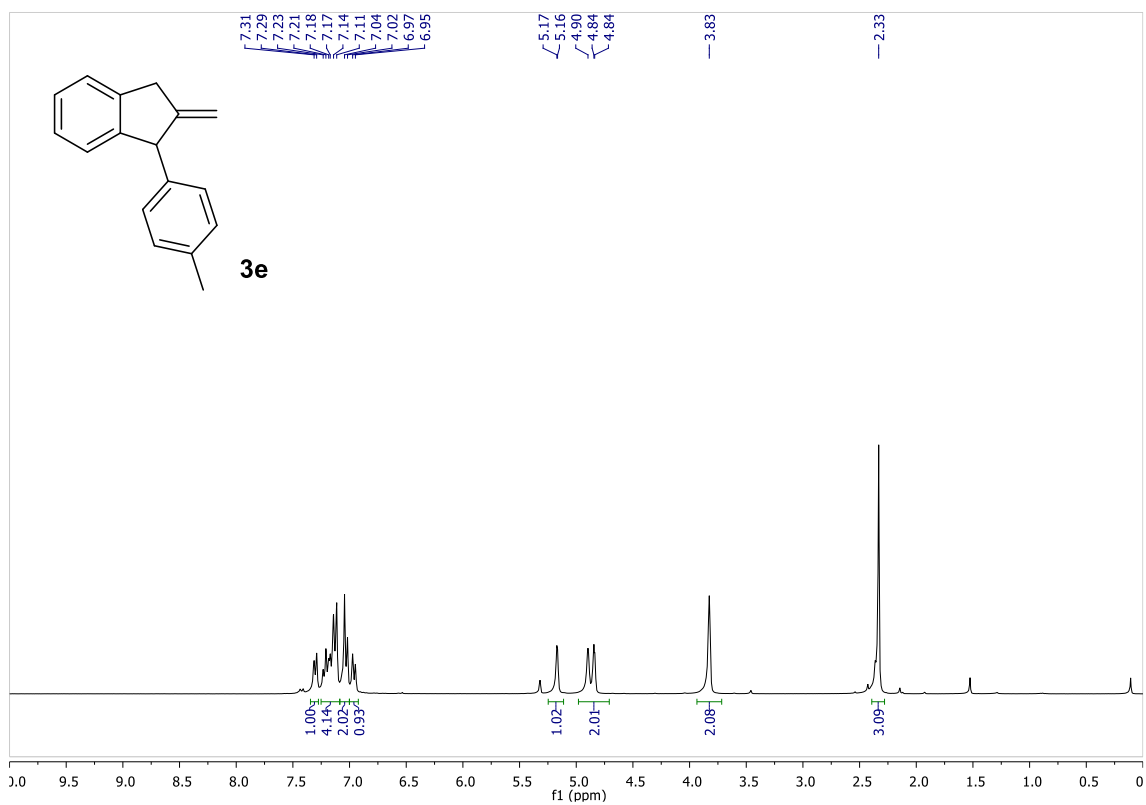
2-Methylene-1-phenyl-2,3-dihydro-1H-indene **3c**



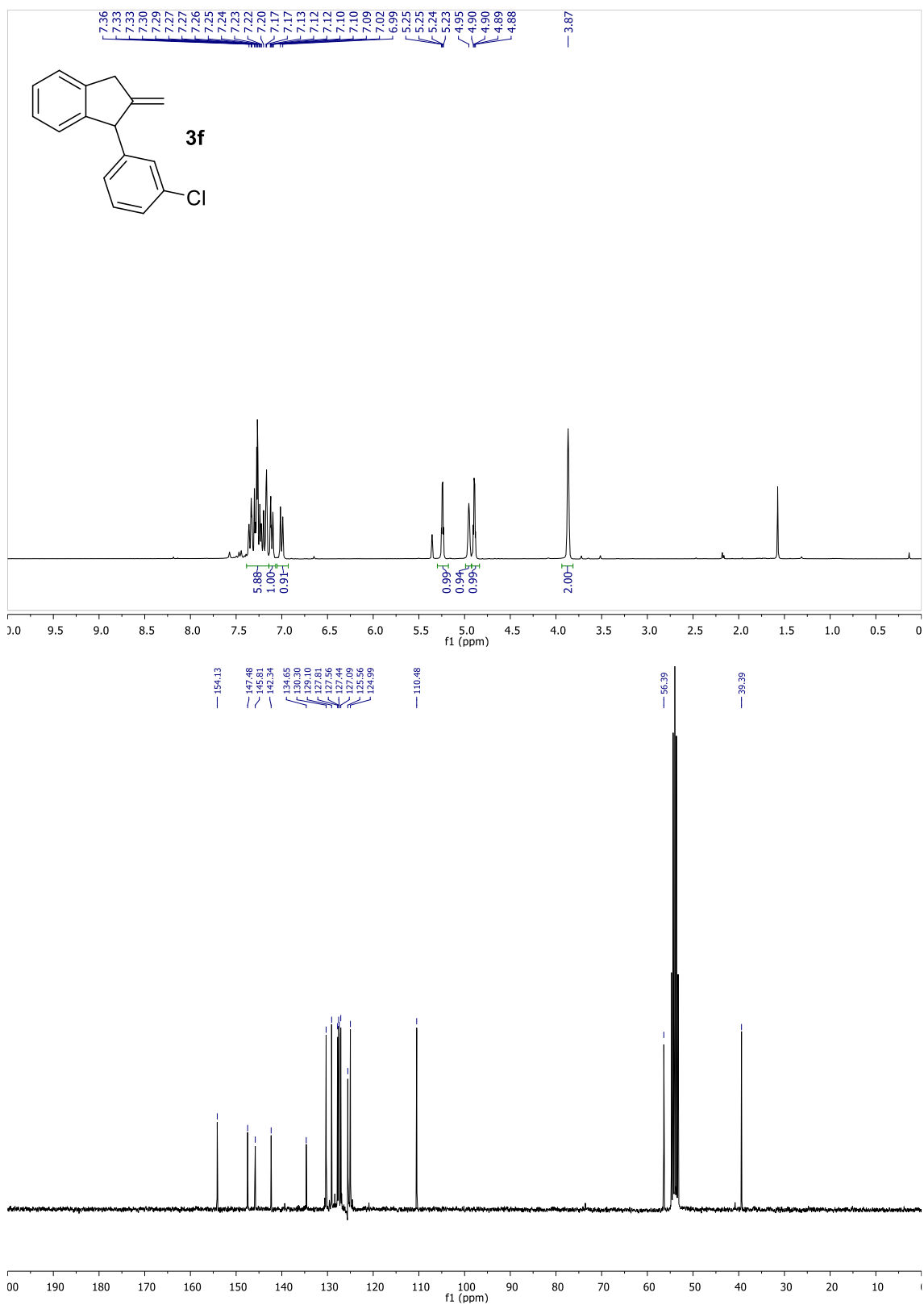
1-(4-Fluorophenyl)-2-methylene-2,3-dihydro-1H-indene 3d



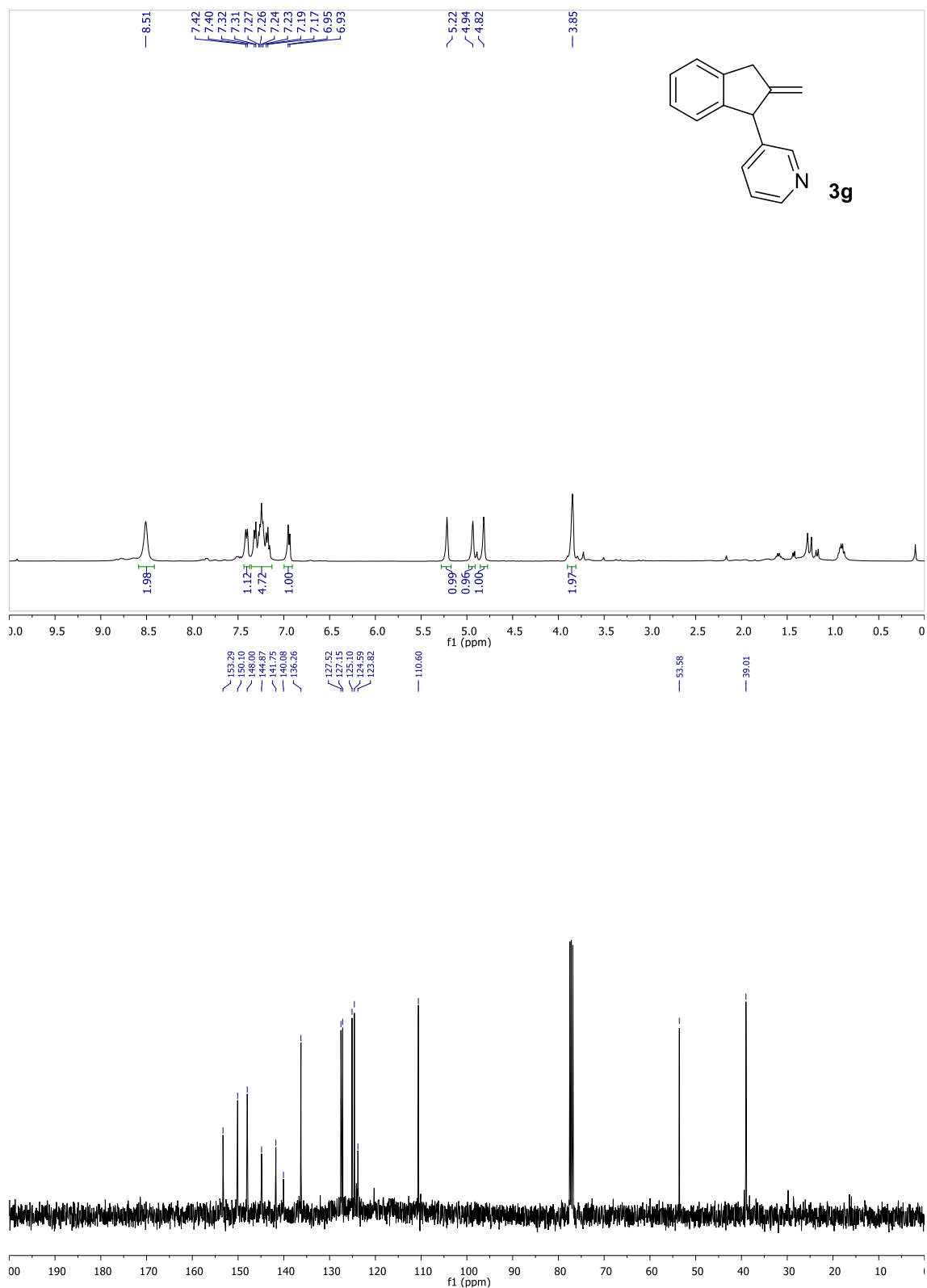
2-Ethylene-1-(*p*-tolyl)-2,3-dihydro-1*H*-indene **3e**



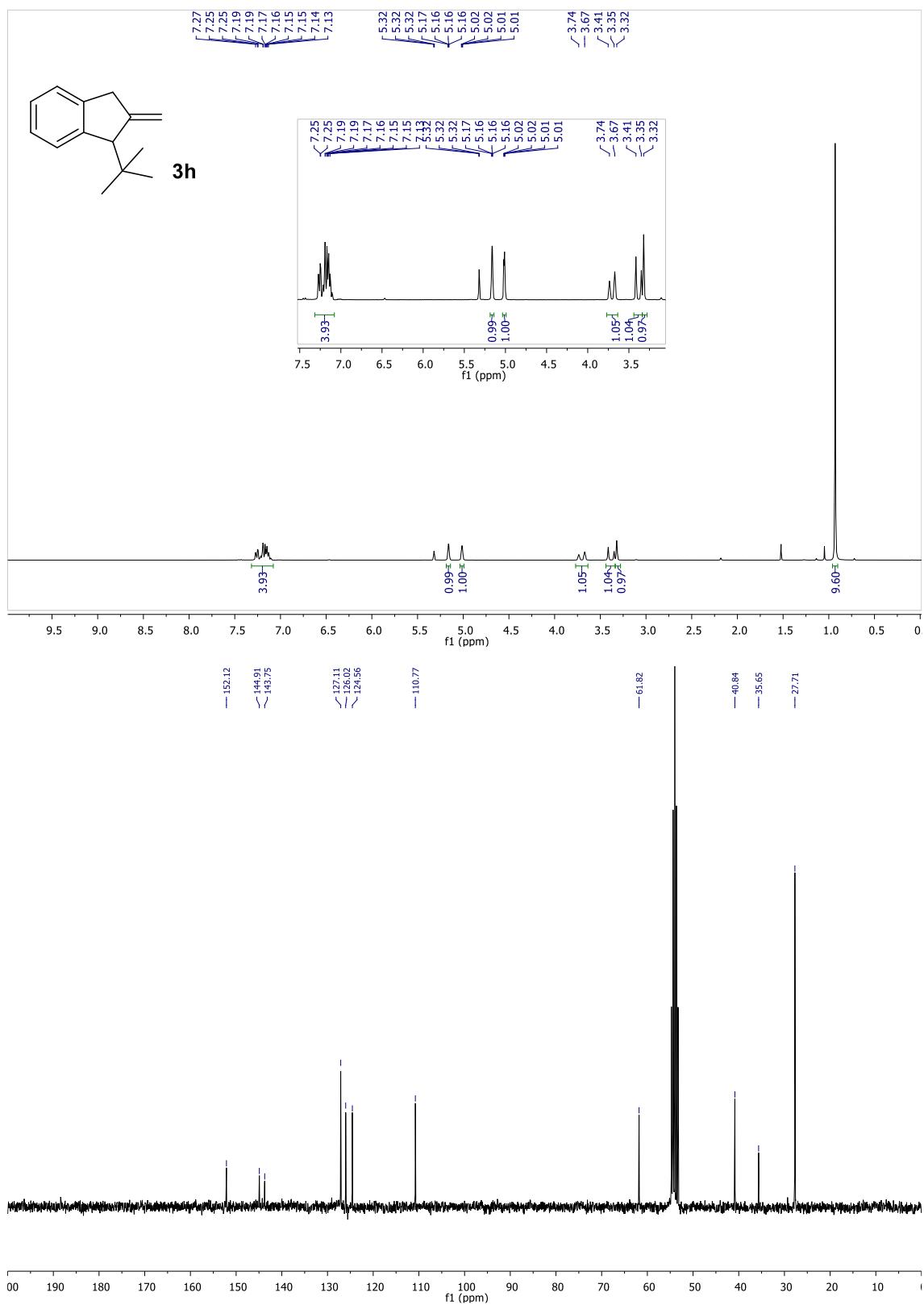
1-(3-Chlorophenyl)-2-methylene-2,3-dihydro-1H-indene 3f



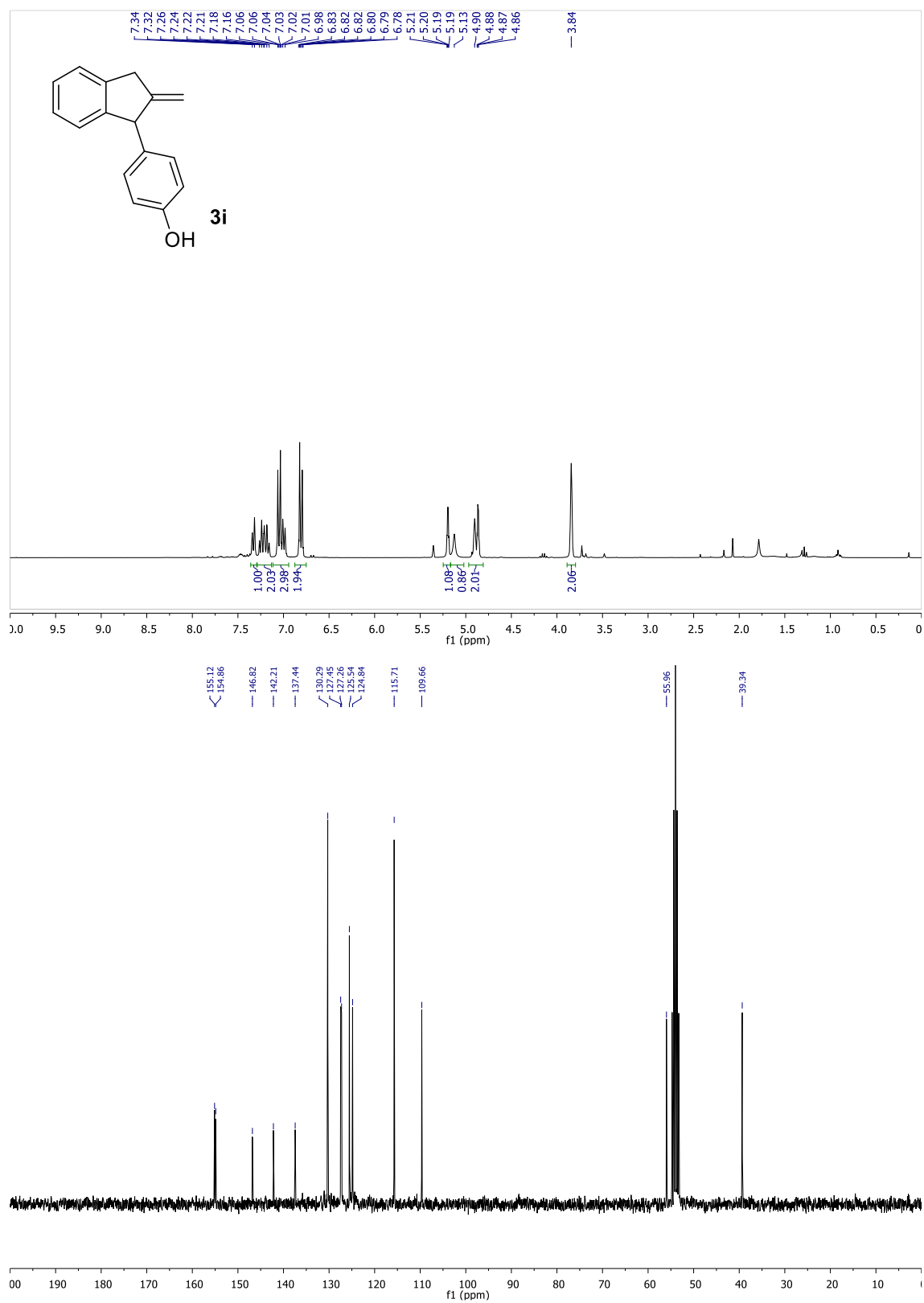
3-(2-Methylene-2,3-dihydro-1H-inden-1-yl)pyridine 3g



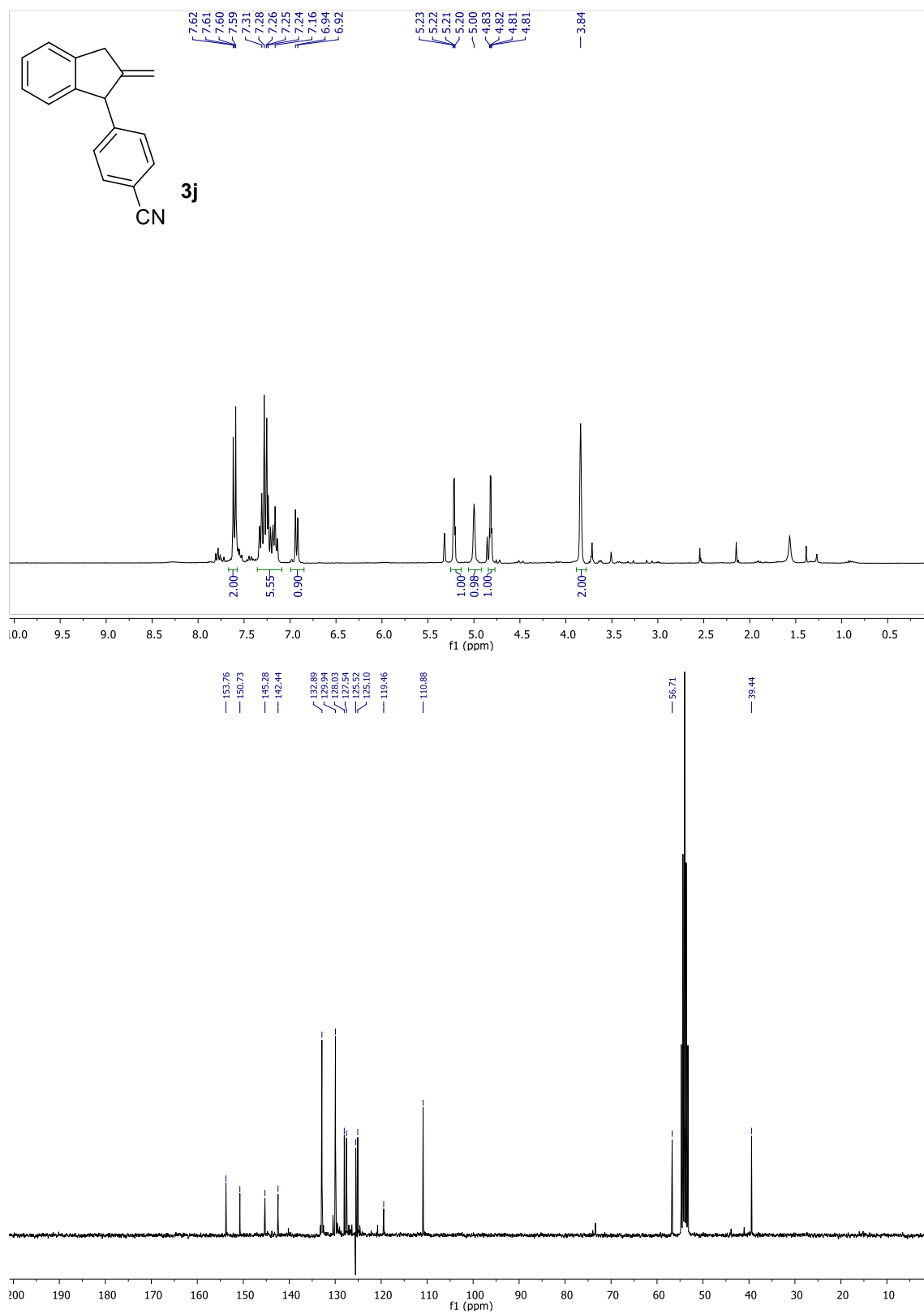
1-(tert-Butyl)-2-methylene-2,3-dihydro-1H-indene 3h



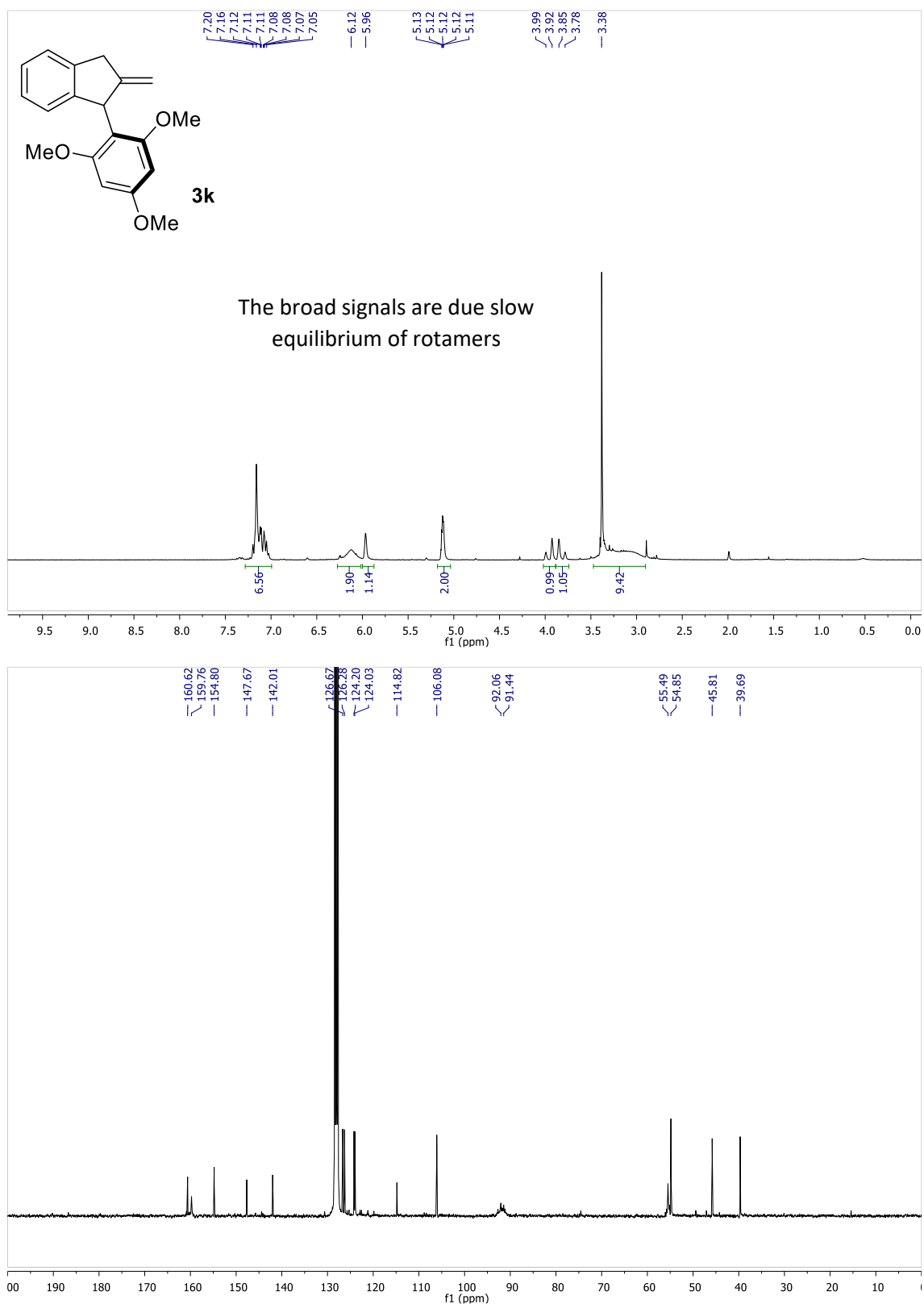
4-(2-Methylene-2,3-dihydro-1H-inden-1-yl)phenol **3i**



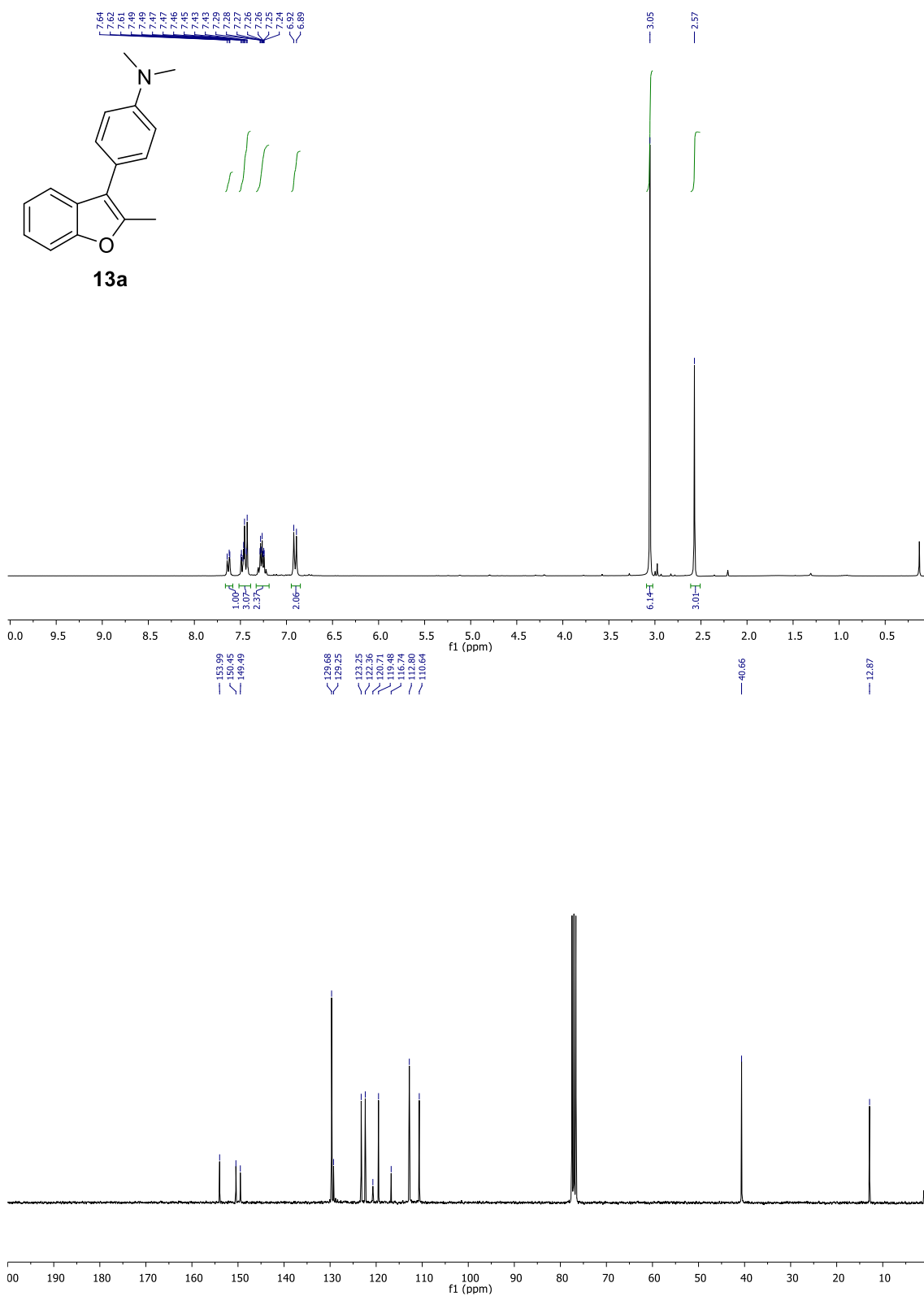
4-(2-Methylene-2,3-dihydro-1H-inden-1-yl)benzonitrile **3j**



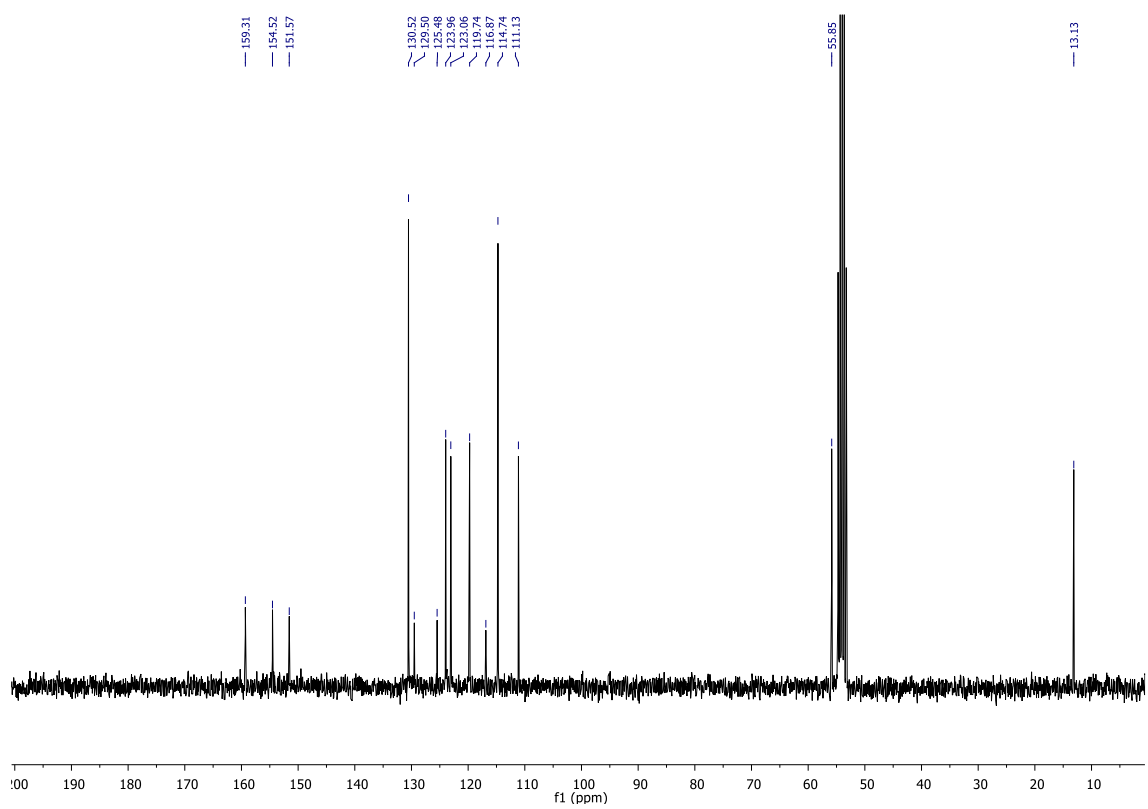
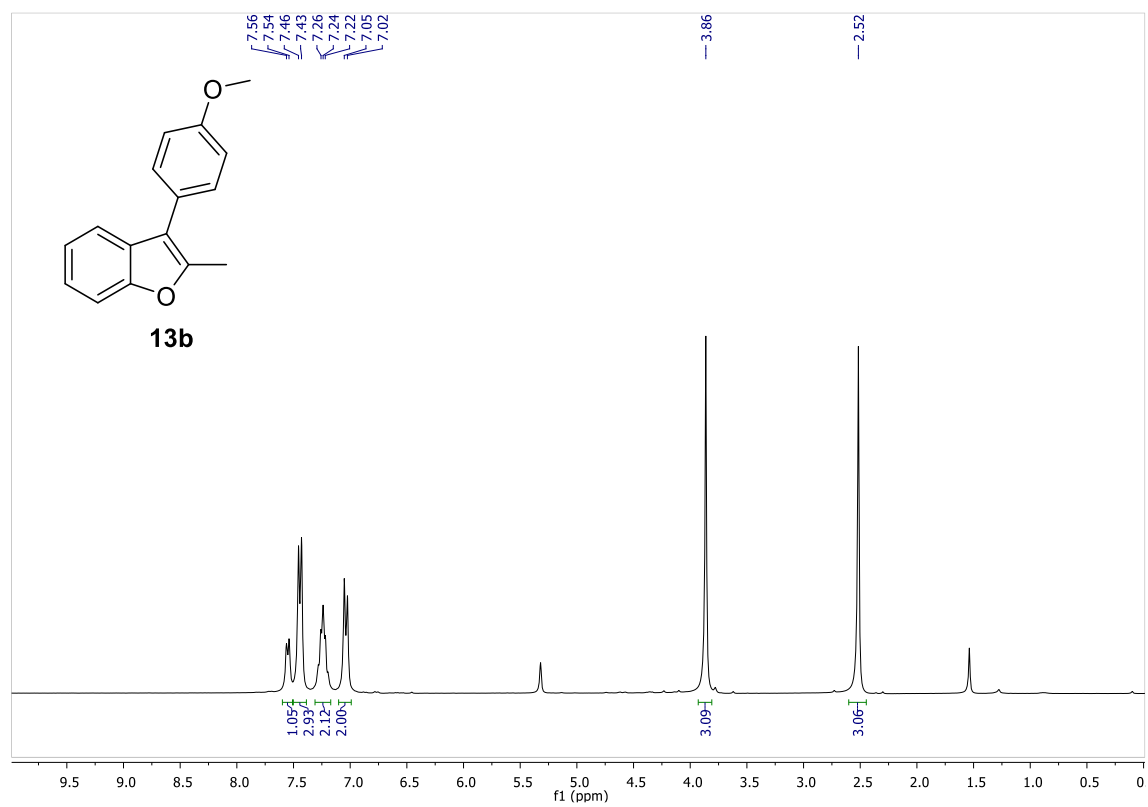
2-Methylene-1-(2,4,6-trimethoxyphenyl)-2,3-dihydro-1H-indene **3k**



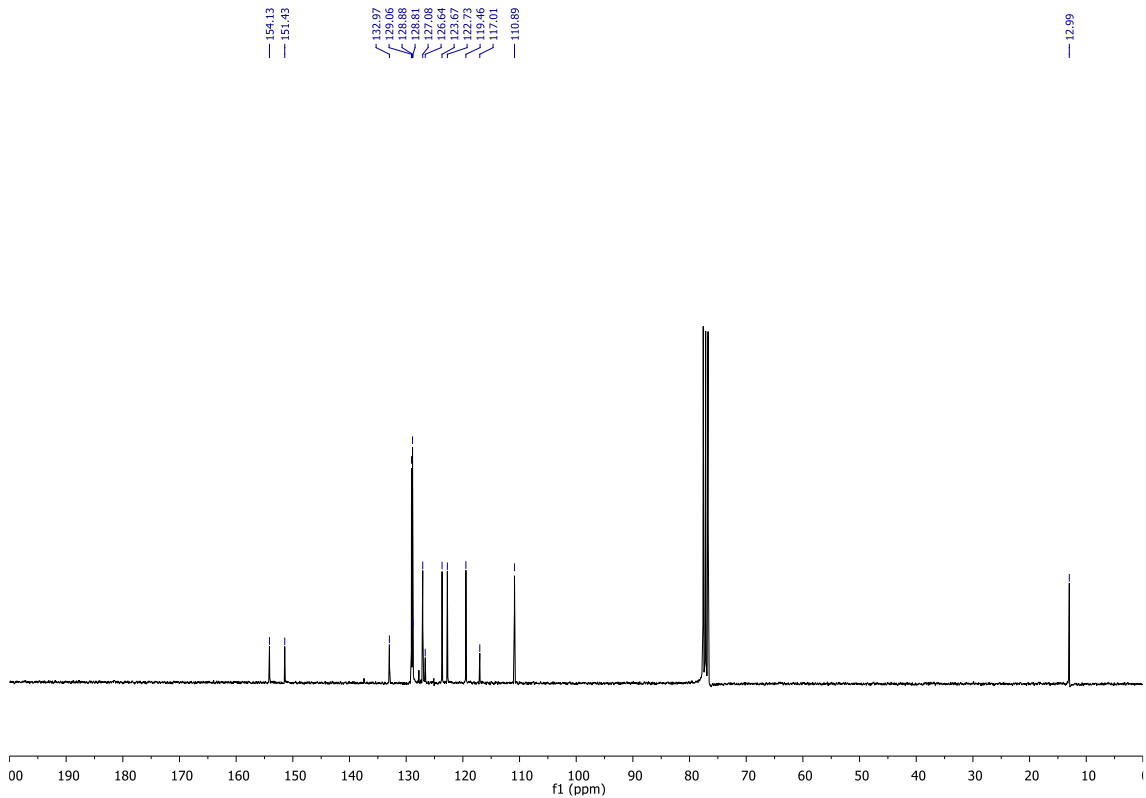
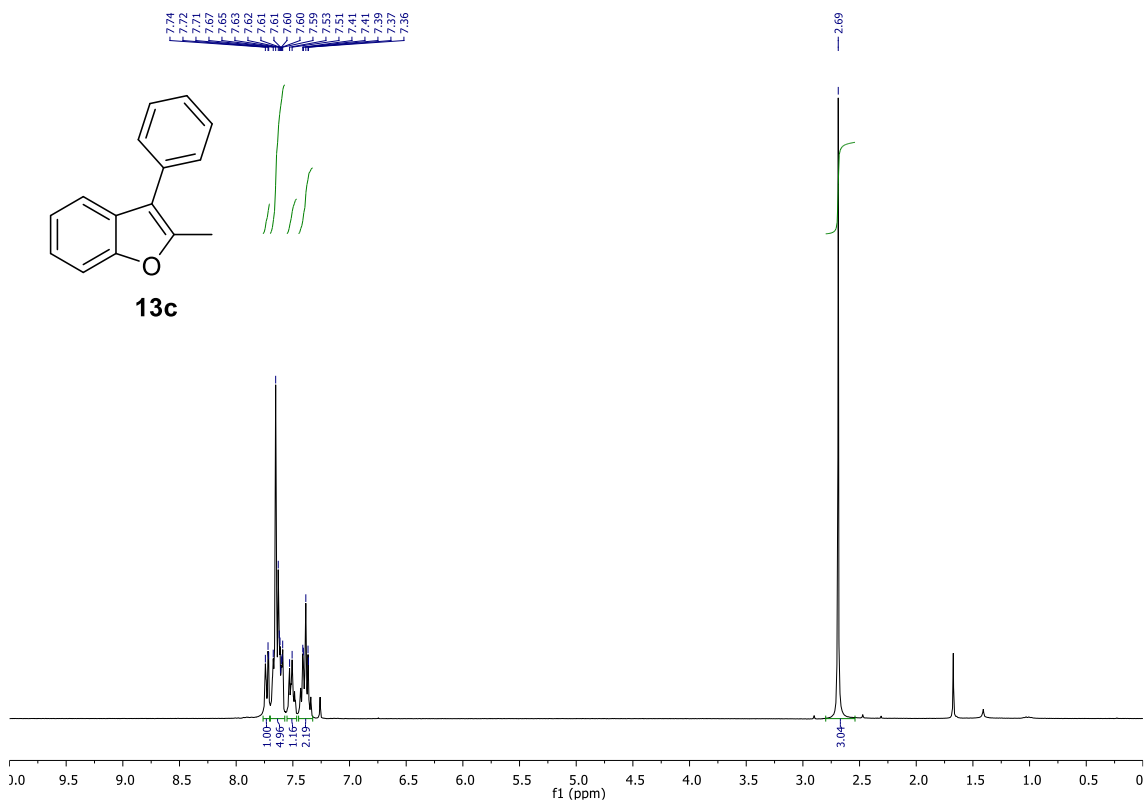
N,N-Dimethyl-4-(2-methylbenzofuran-3-yl)aniline 13a



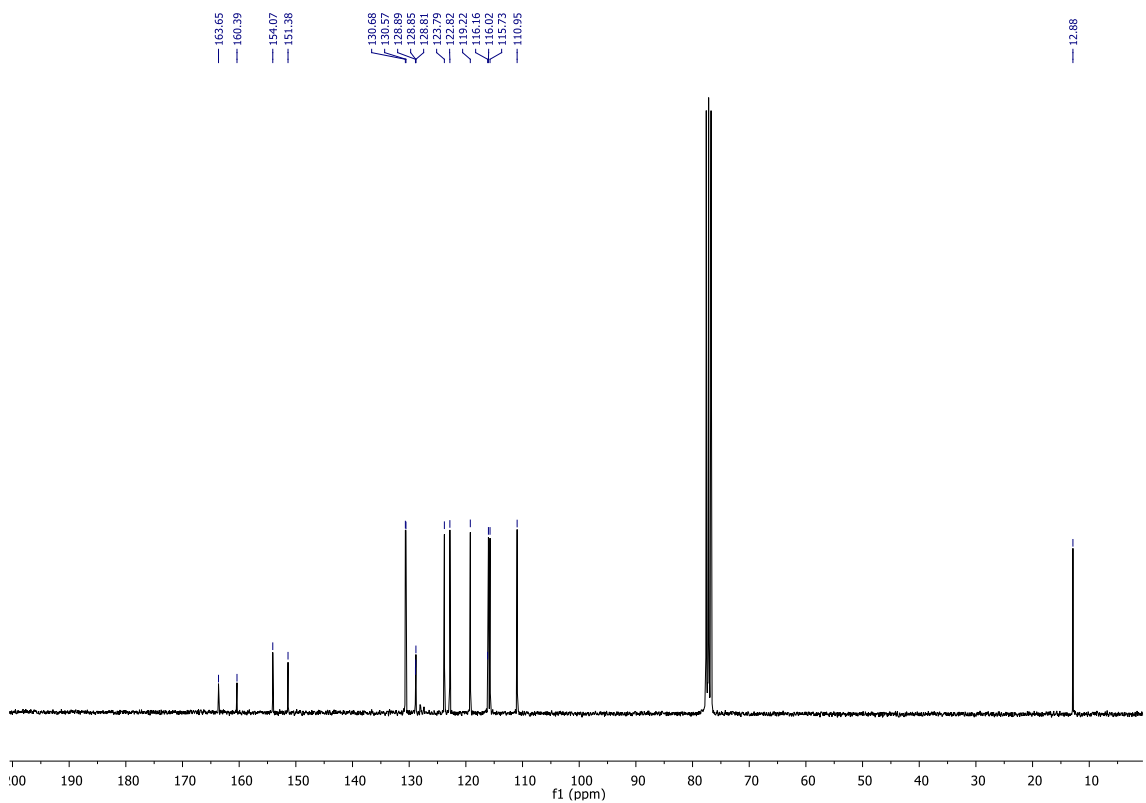
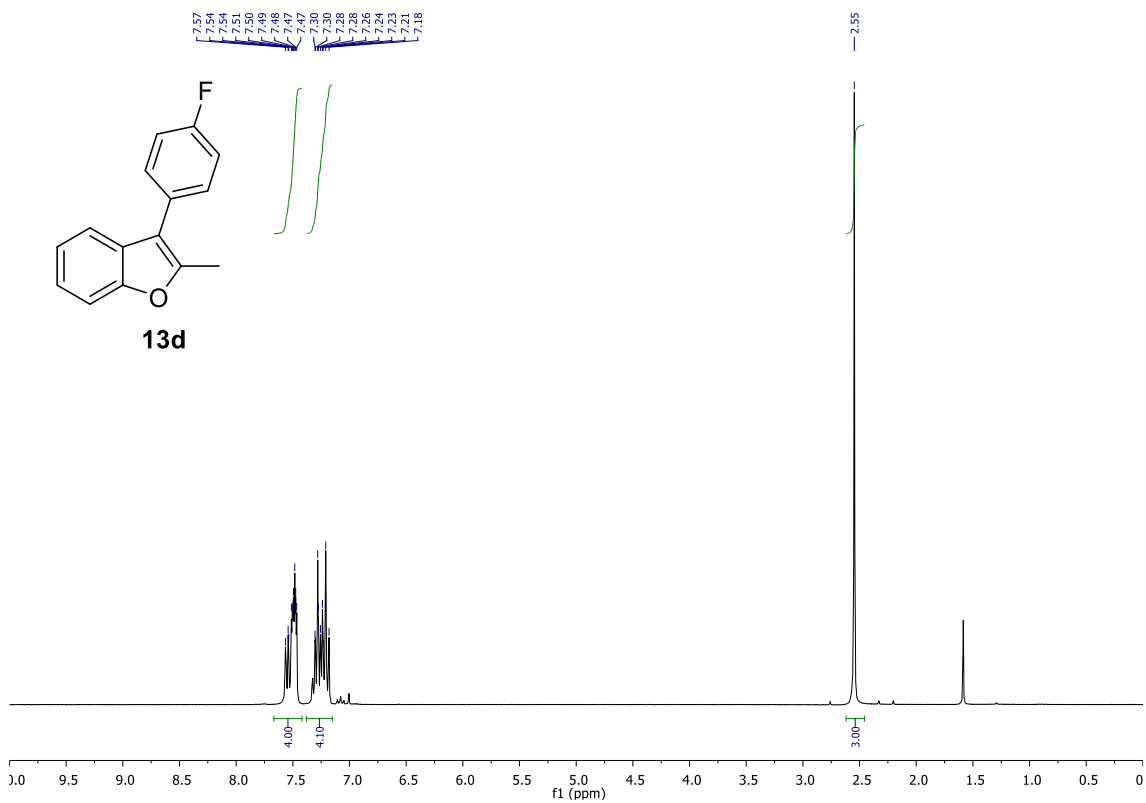
3-(4-Methoxyphenyl)-2-methylbenzofuran **13b**



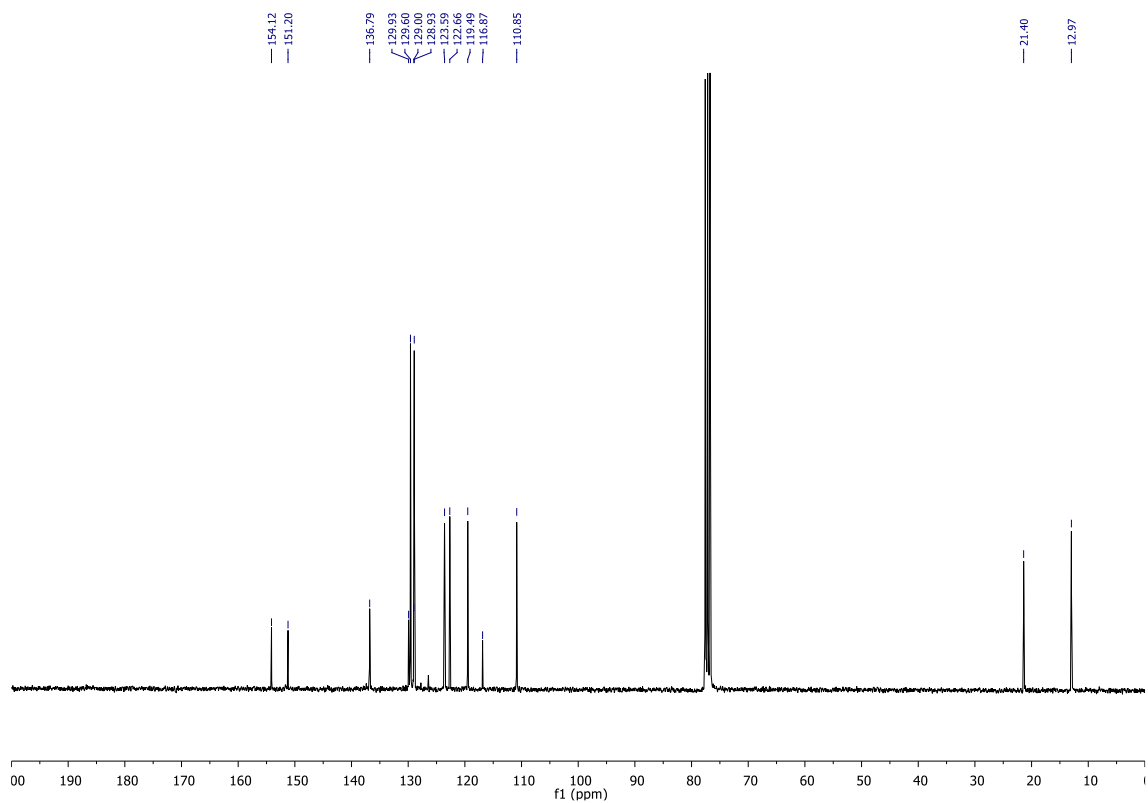
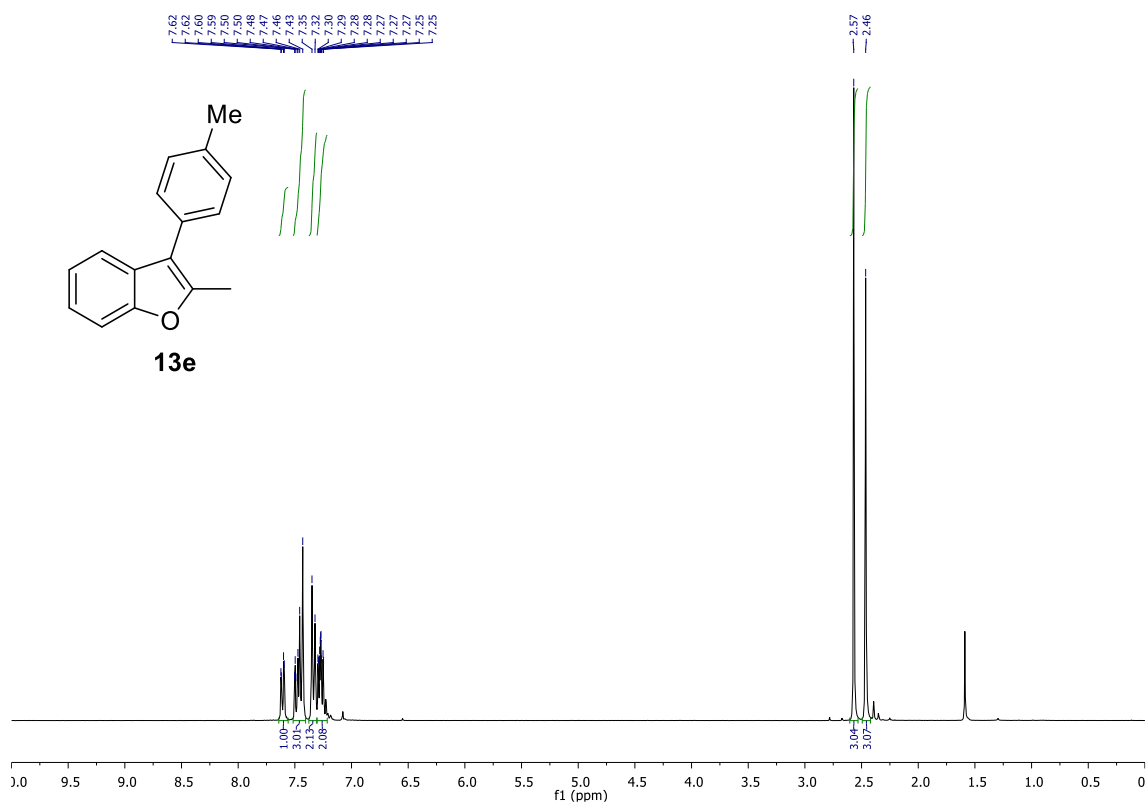
2-Methyl-3-phenylbenzofuran **13c**



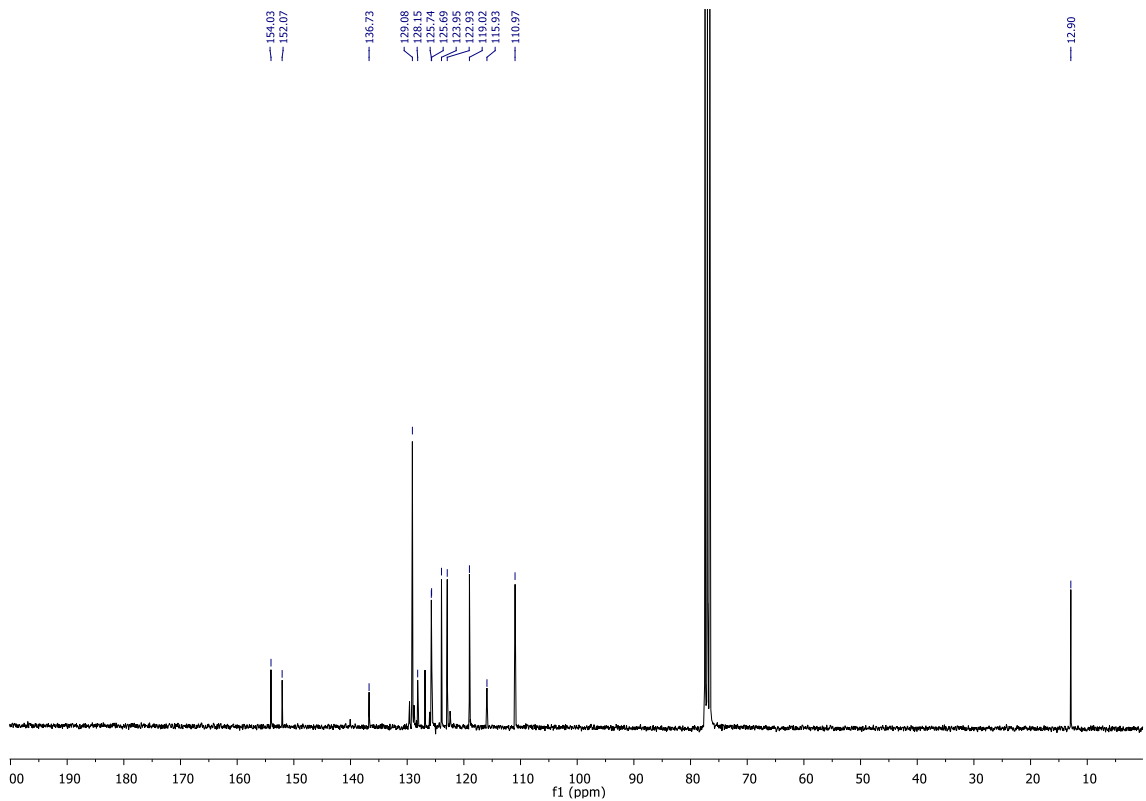
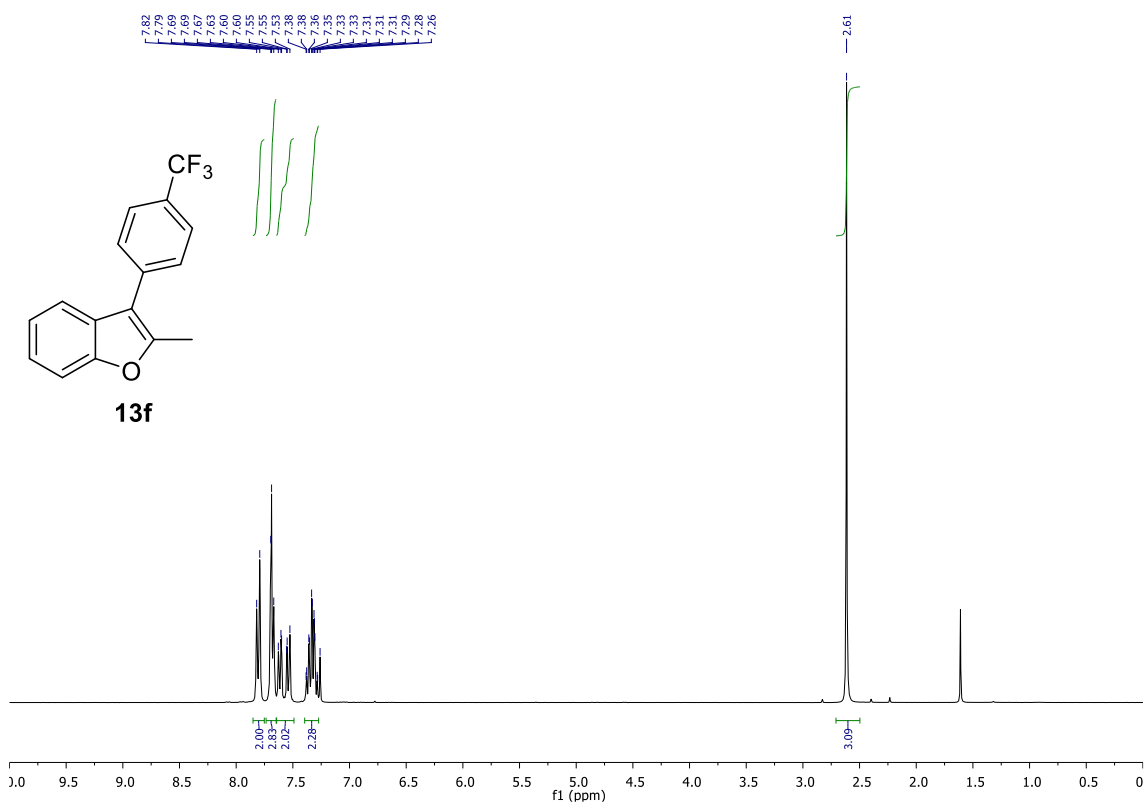
3-(4-Fluorophenyl)-2-methylbenzofuran **13d**



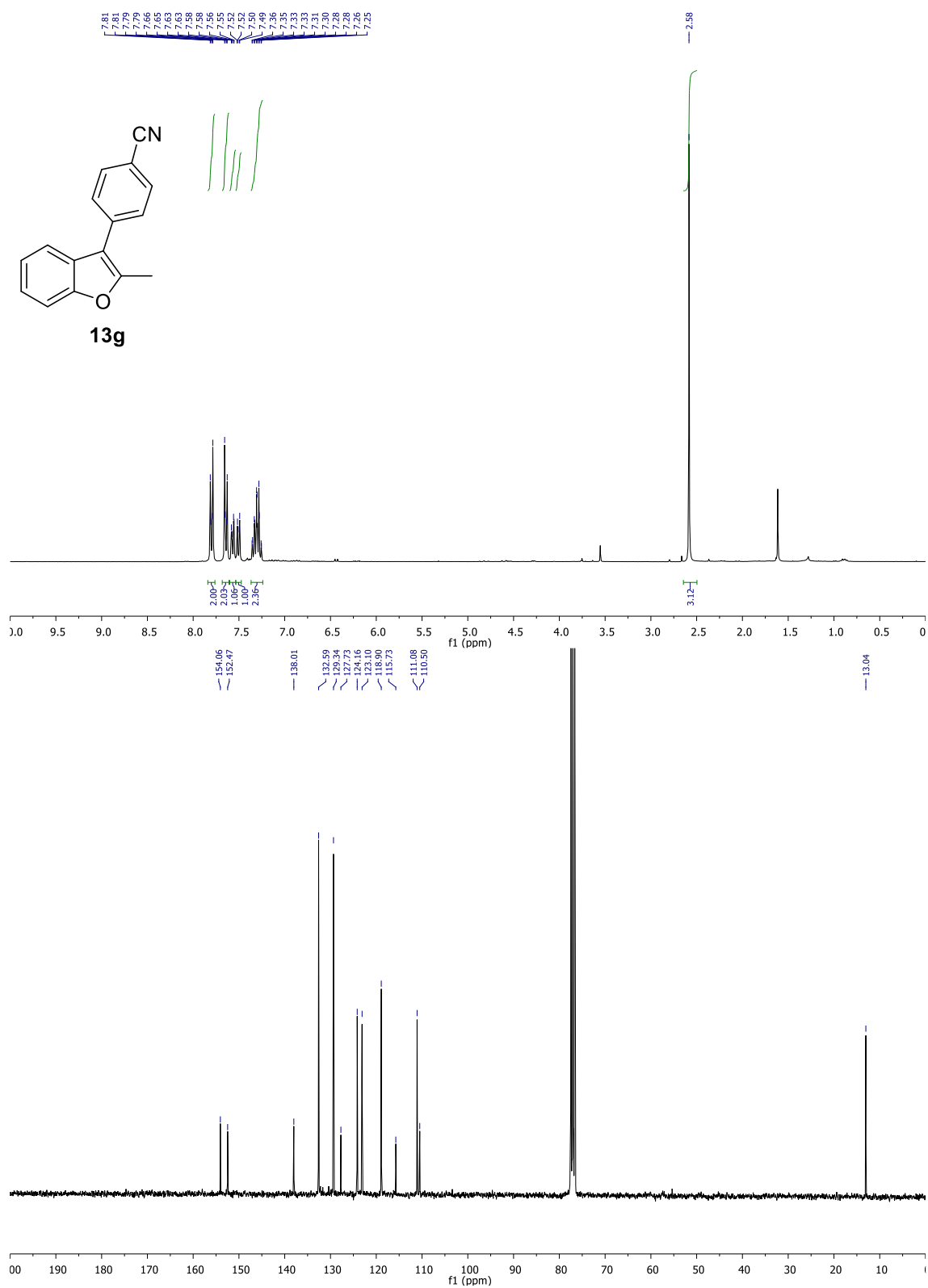
2-Methyl-3-(*p*-tolyl)benzofuran **13e**



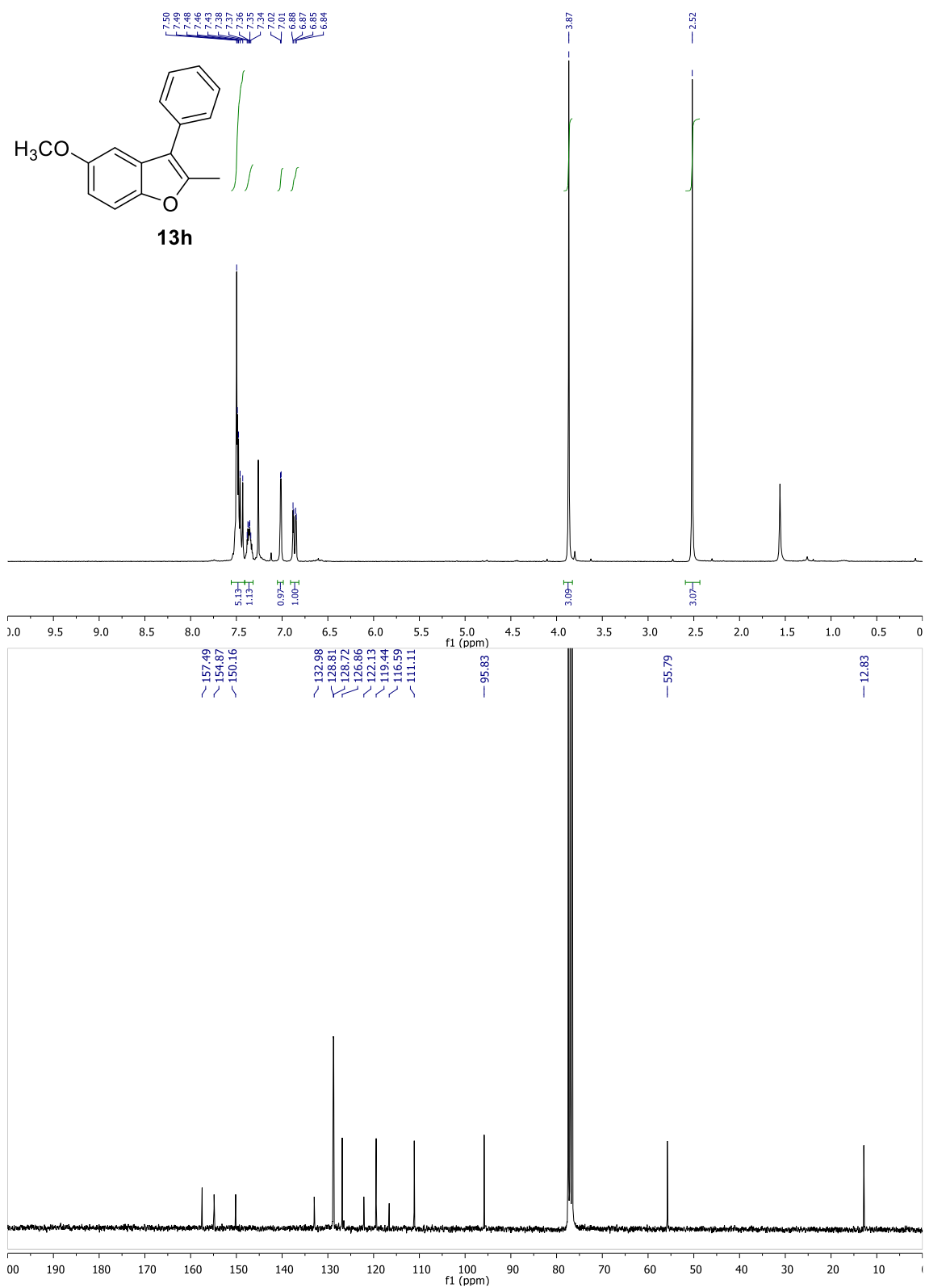
2-Methyl-3-(4-(trifluoromethyl)phenyl)benzofuran **13f**



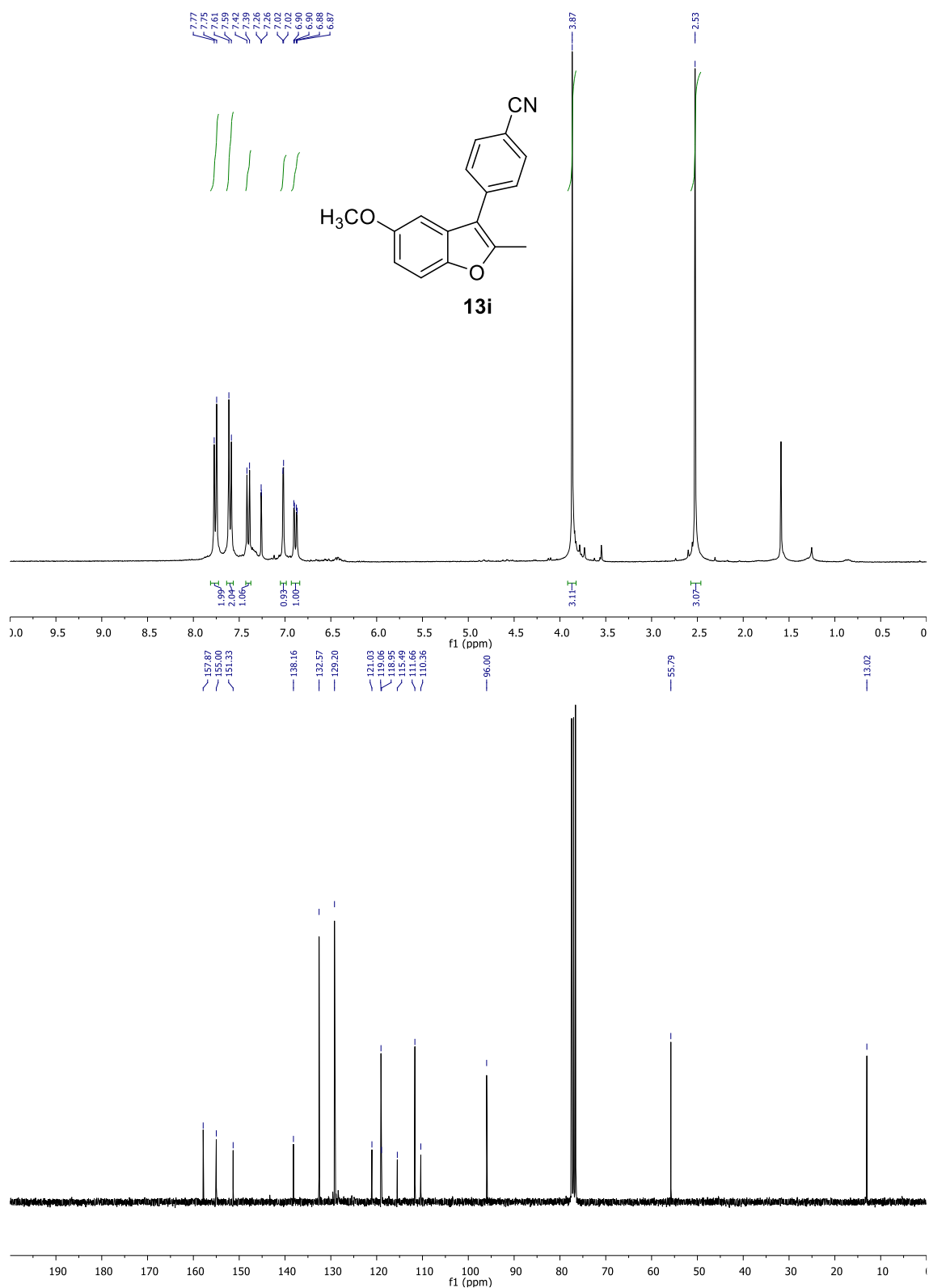
4-(2-Methylbenzofuran-3-yl)benzonitrile **13g**



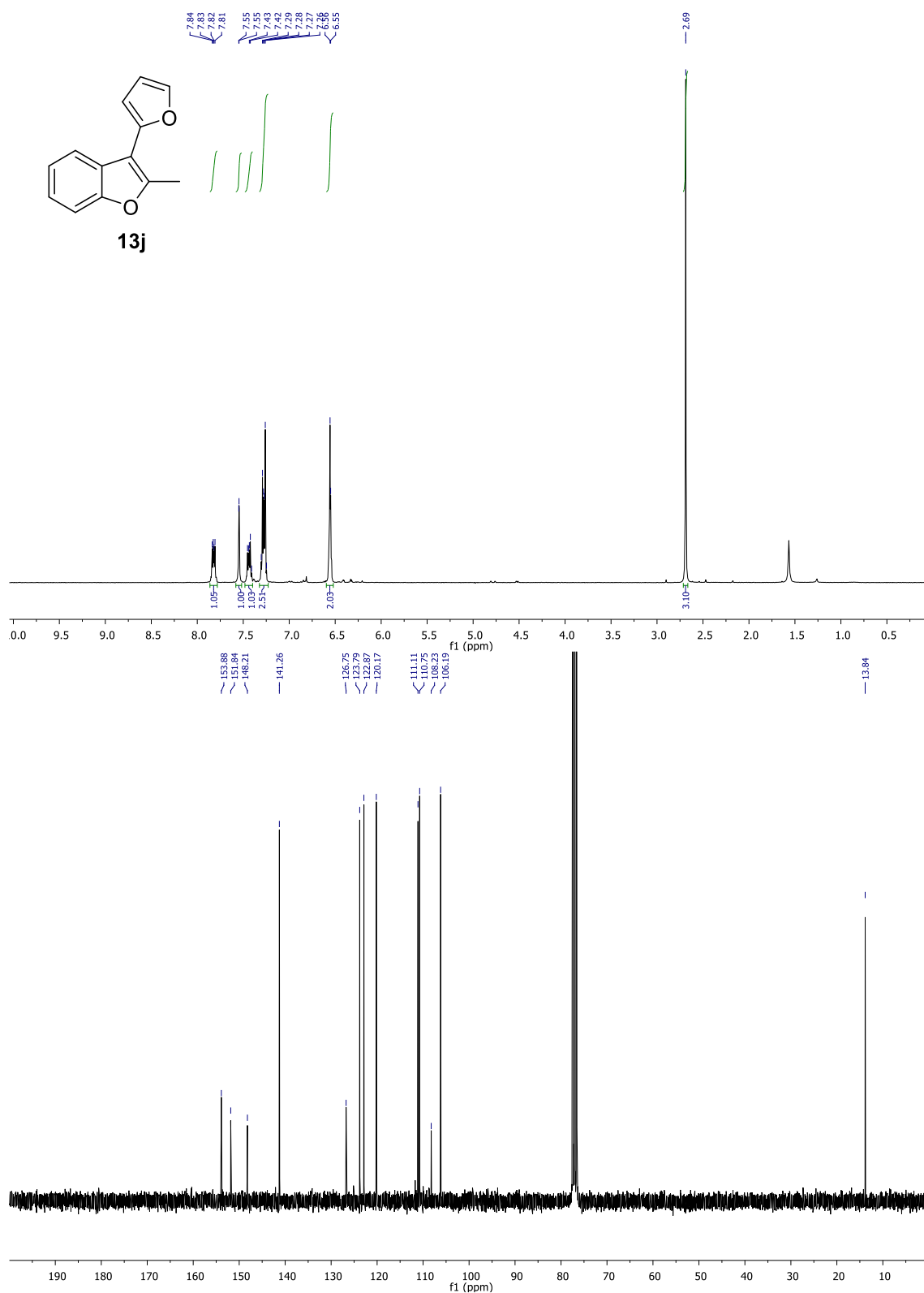
5-Methoxy-2-methyl-3-phenylbenzofuran **13h**



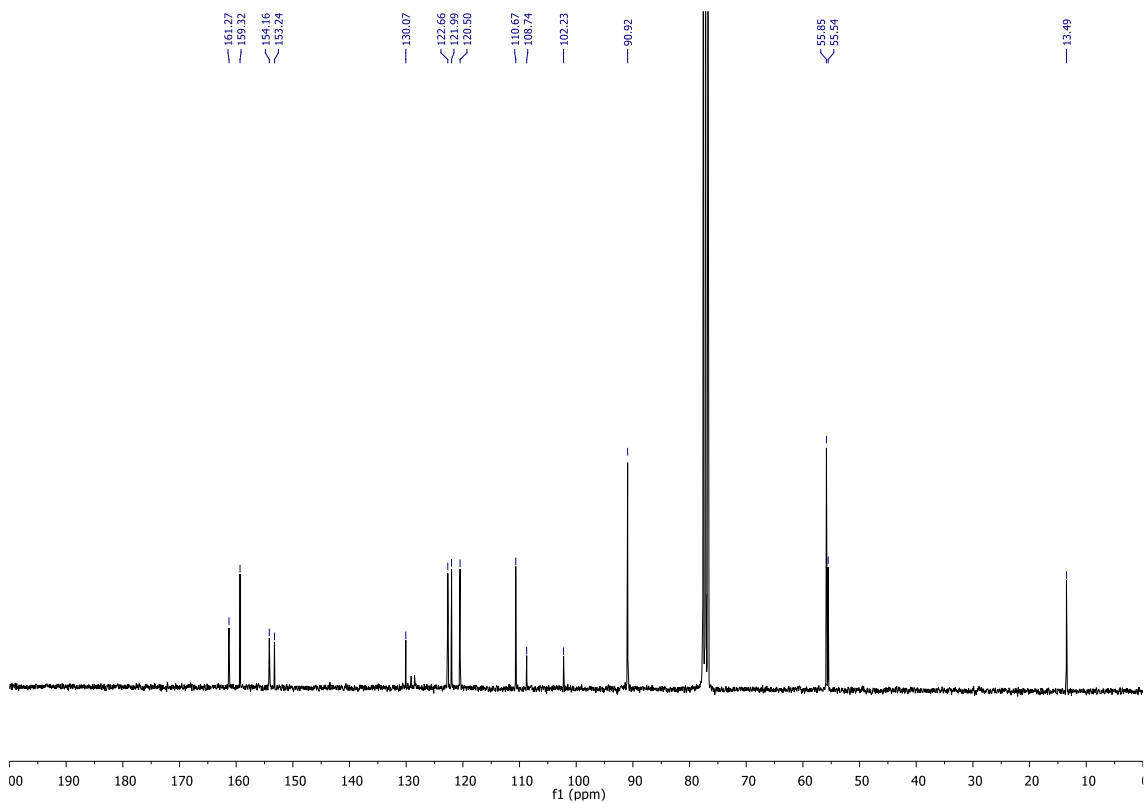
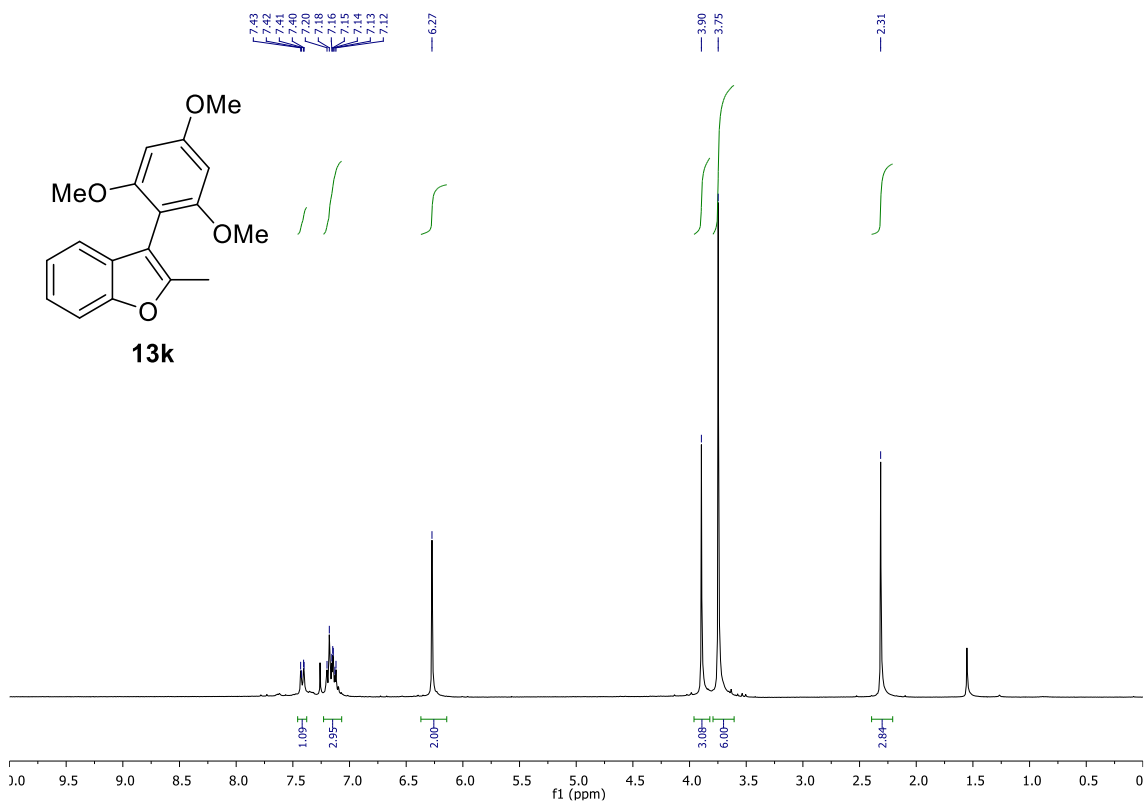
4-(5-Methoxy-2-methylbenzofuran-3-yl)benzonitrile **13i**



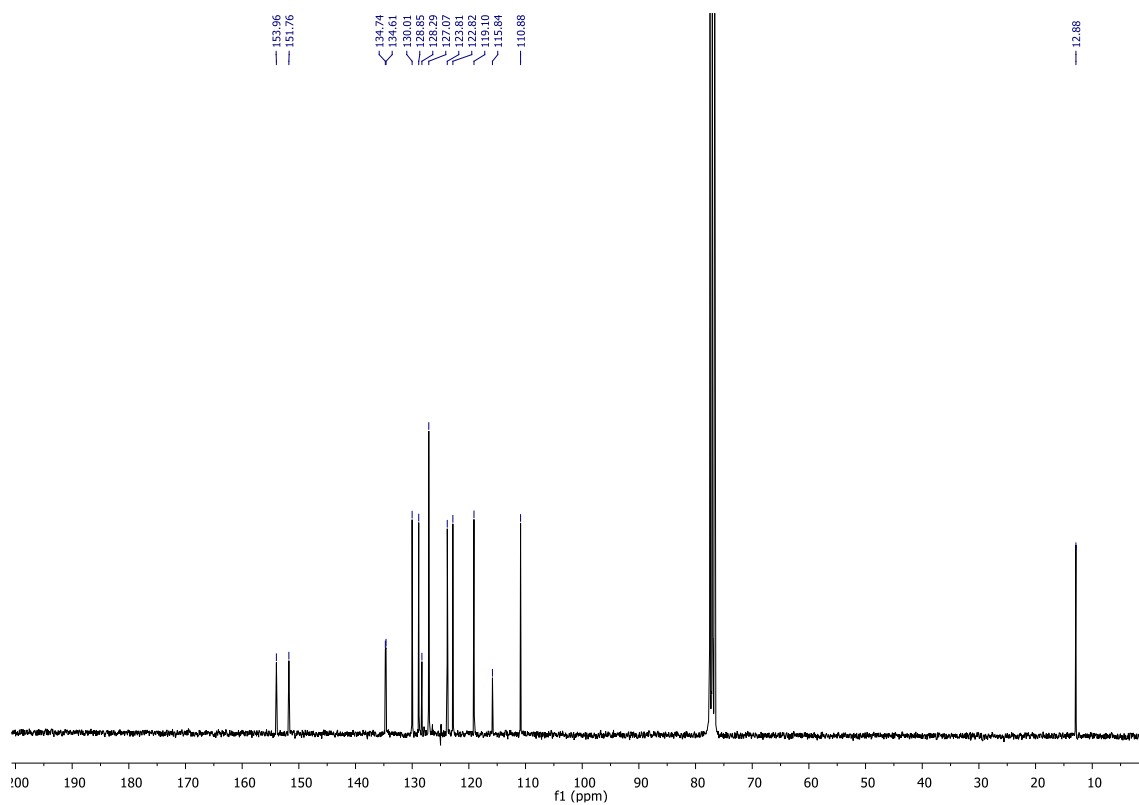
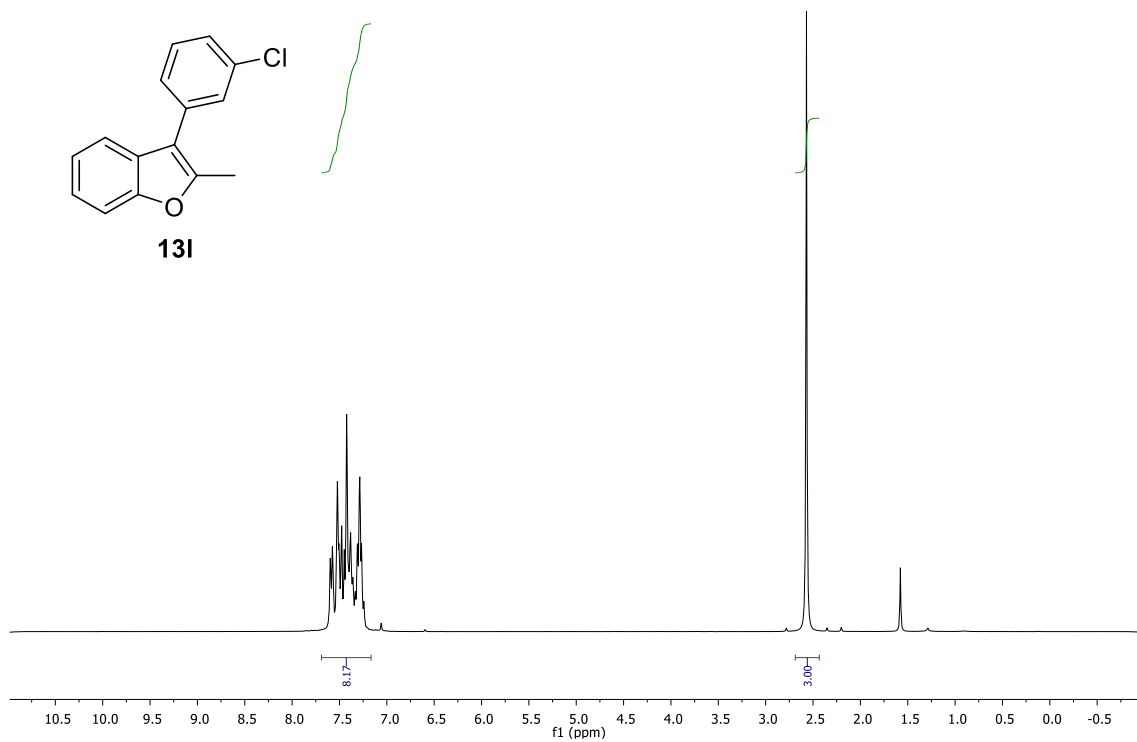
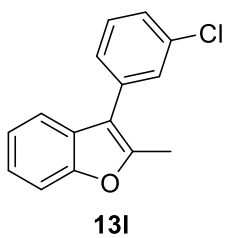
3-(Furan-2-yl)-2-methylbenzofuran **13j**



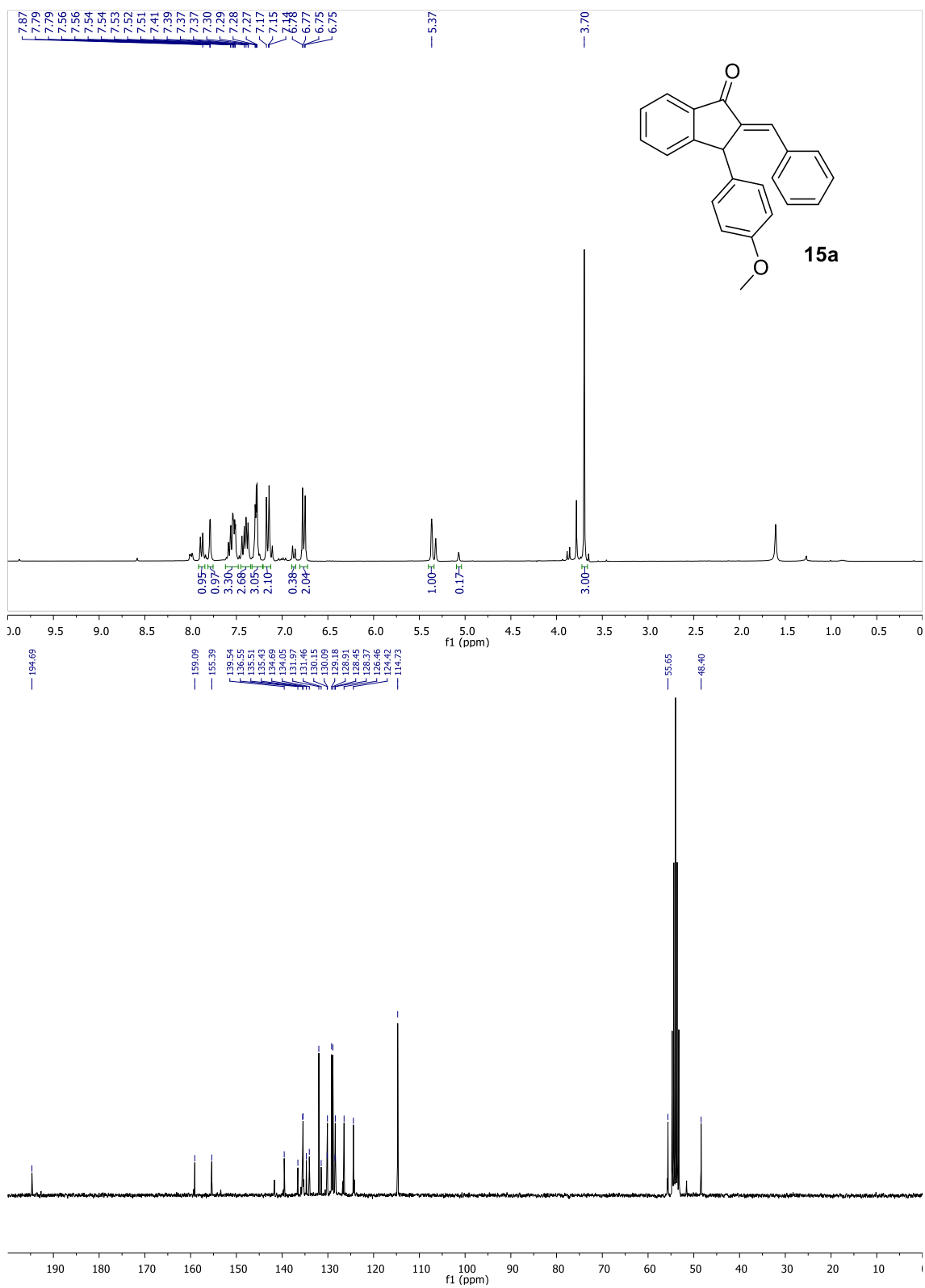
2-Methyl-3-(2,4,6-trimethoxyphenyl)benzofuran **13k**



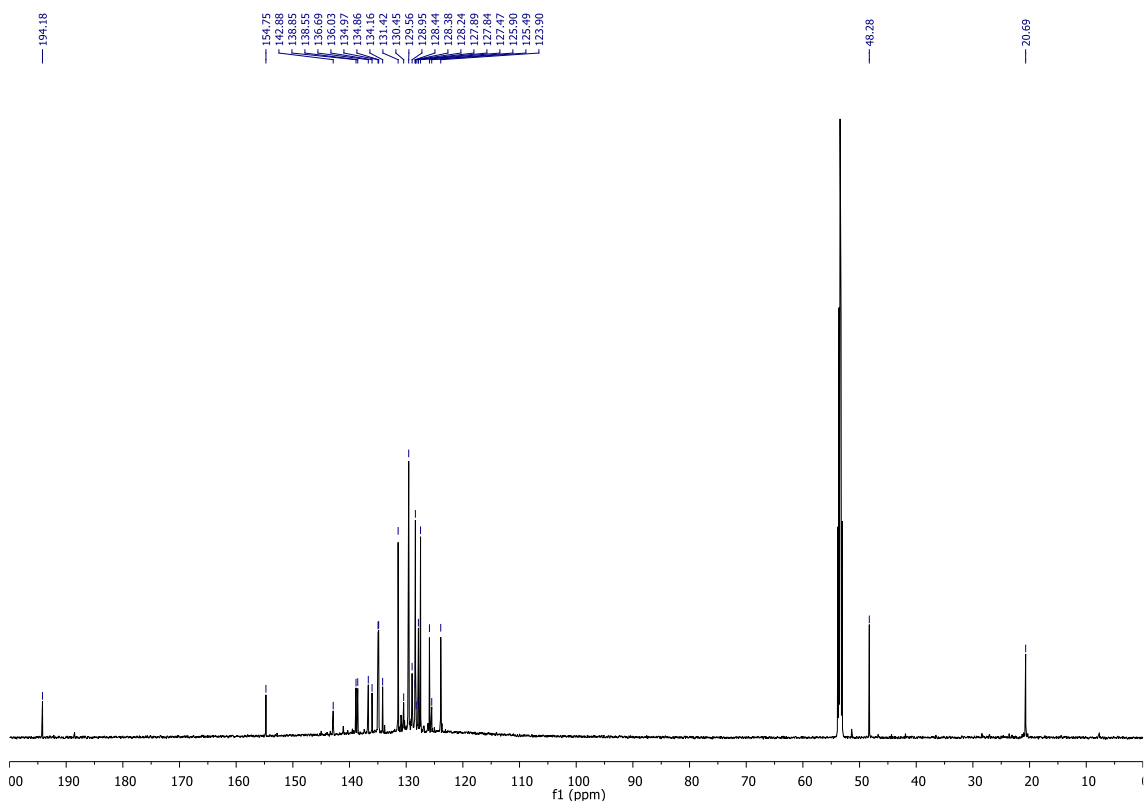
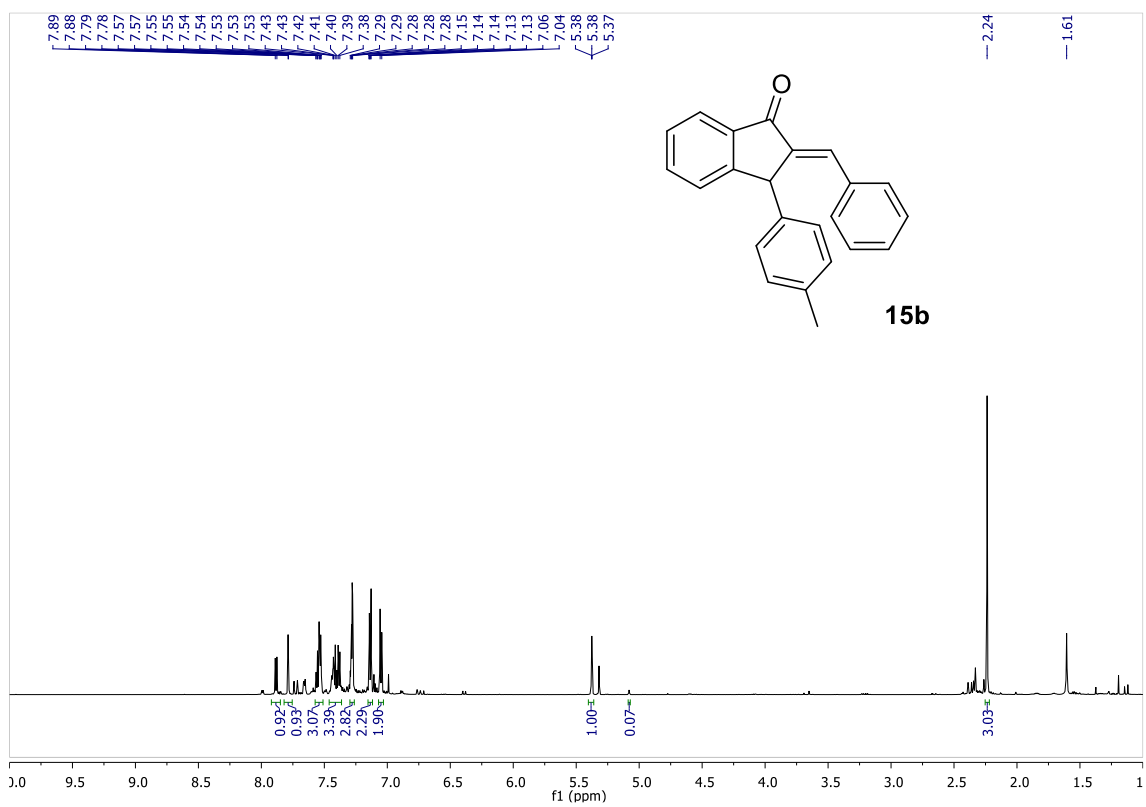
3-(3-Chlorophenyl)-2-methylbenzofuran 13I



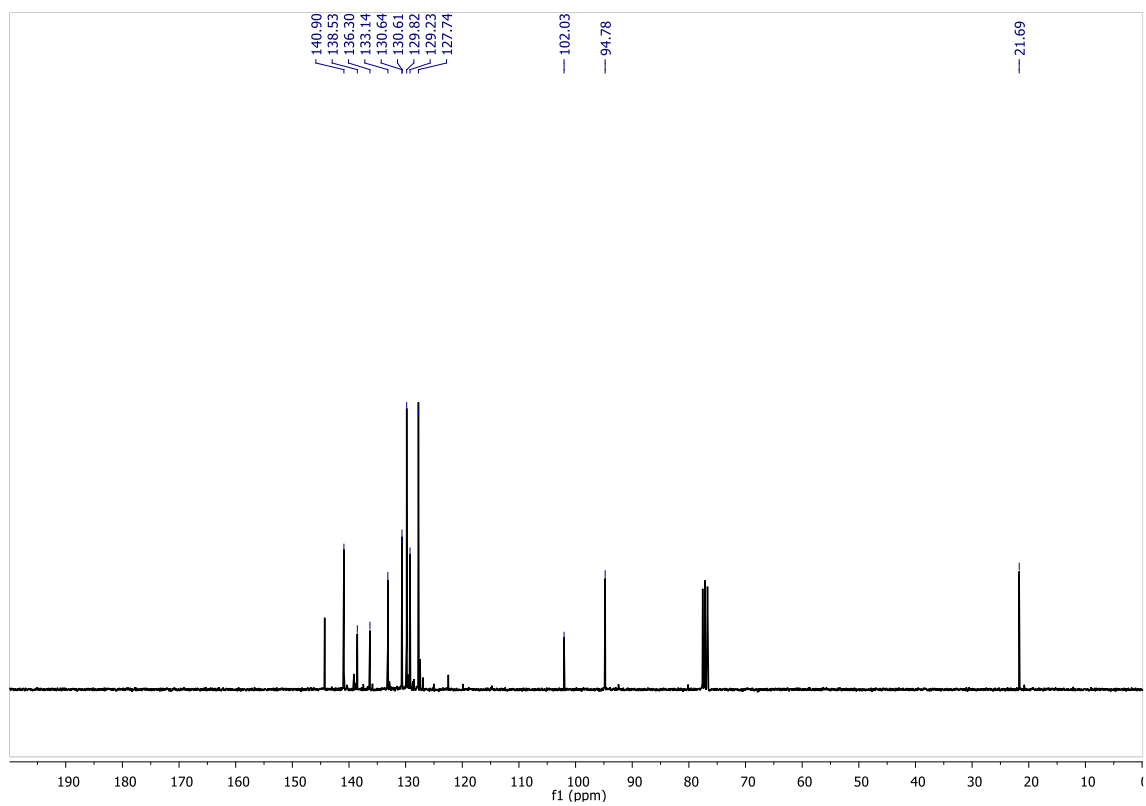
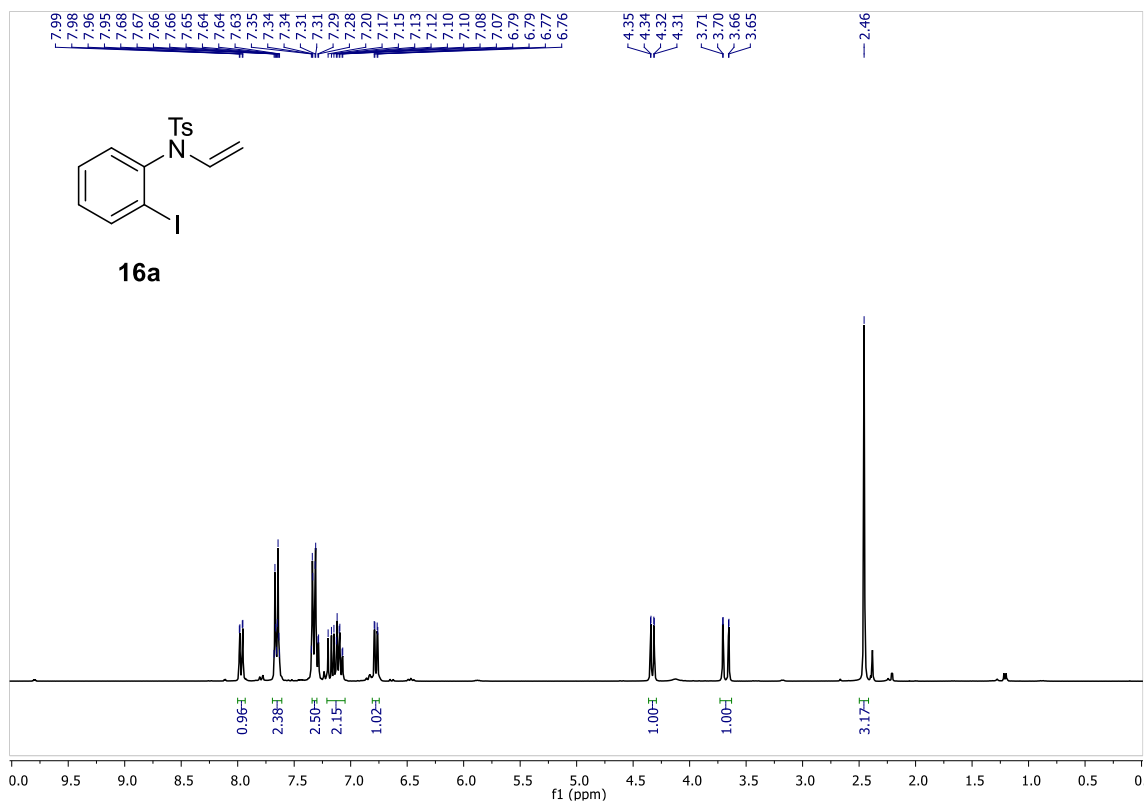
(E)-2-Benzylidene-3-(4-methoxyphenyl)-2,3-dihydro-1H-inden-1-one **15a** (5.8:1 mixture of E/Z isomers)



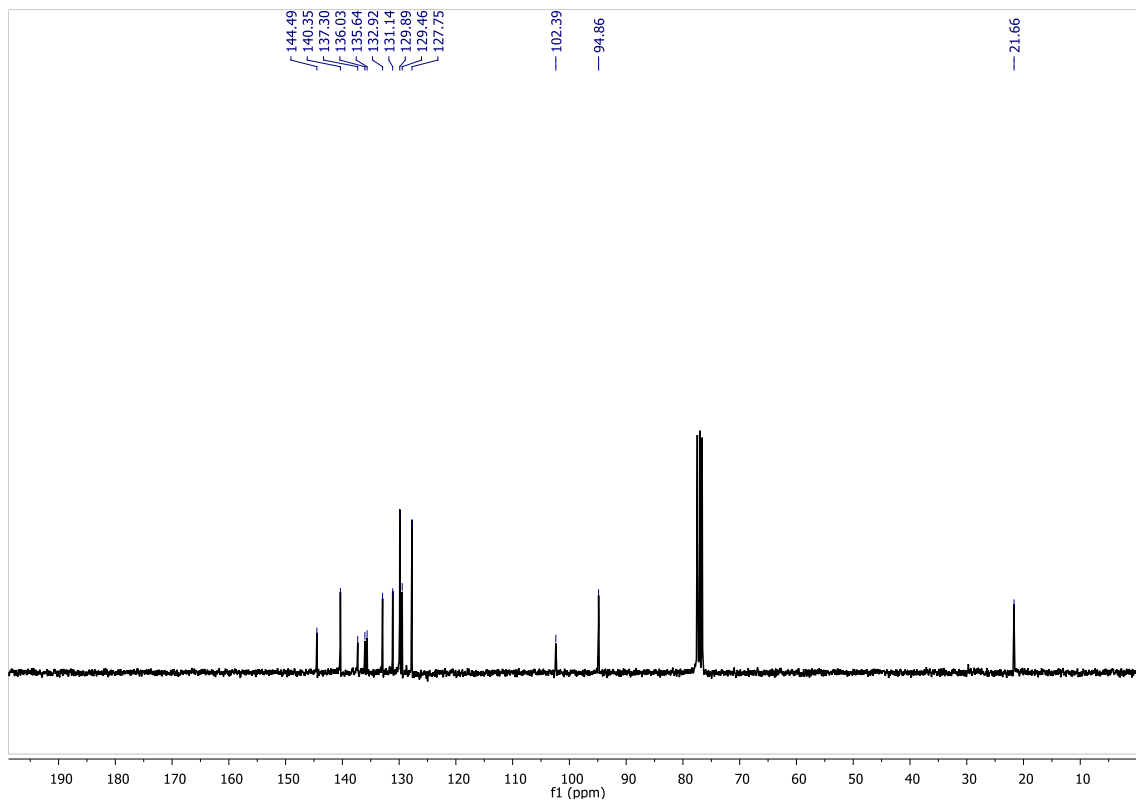
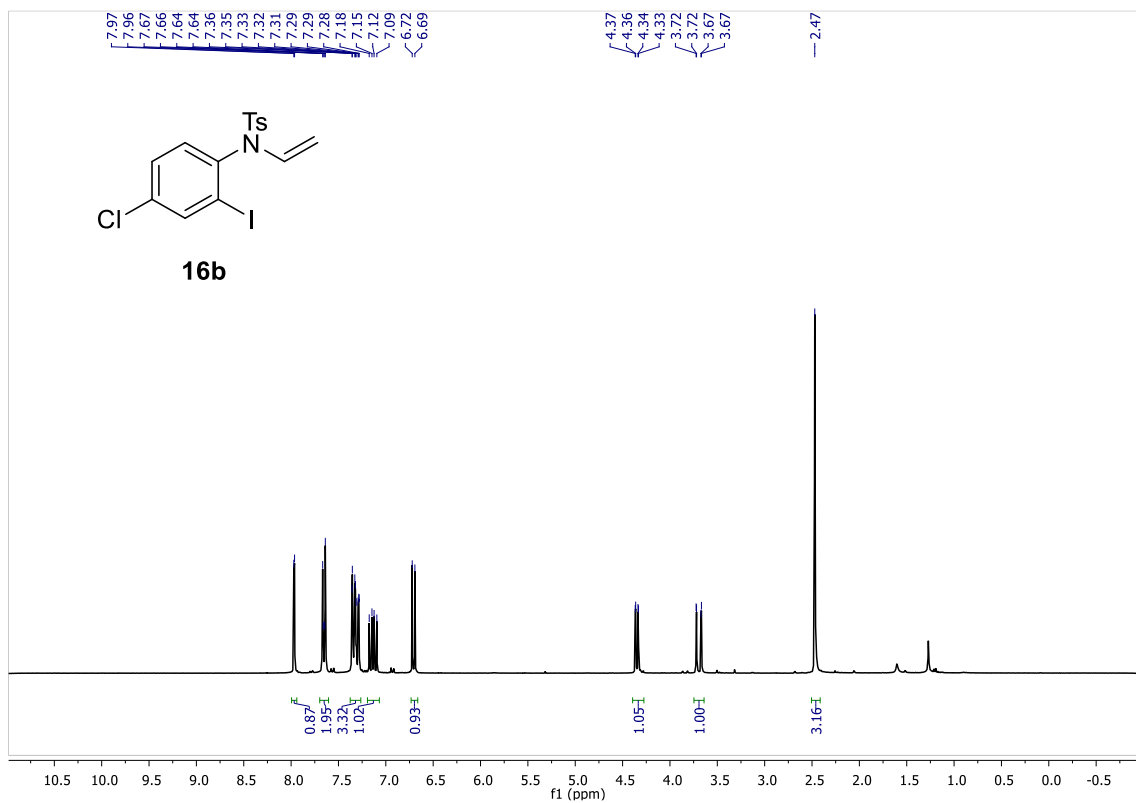
(E)-2-Benzylidene-3-(p-tolyl)-2,3-dihydro-1H-inden-1-one 15b (14: 1 mixture of E/Z isomers)



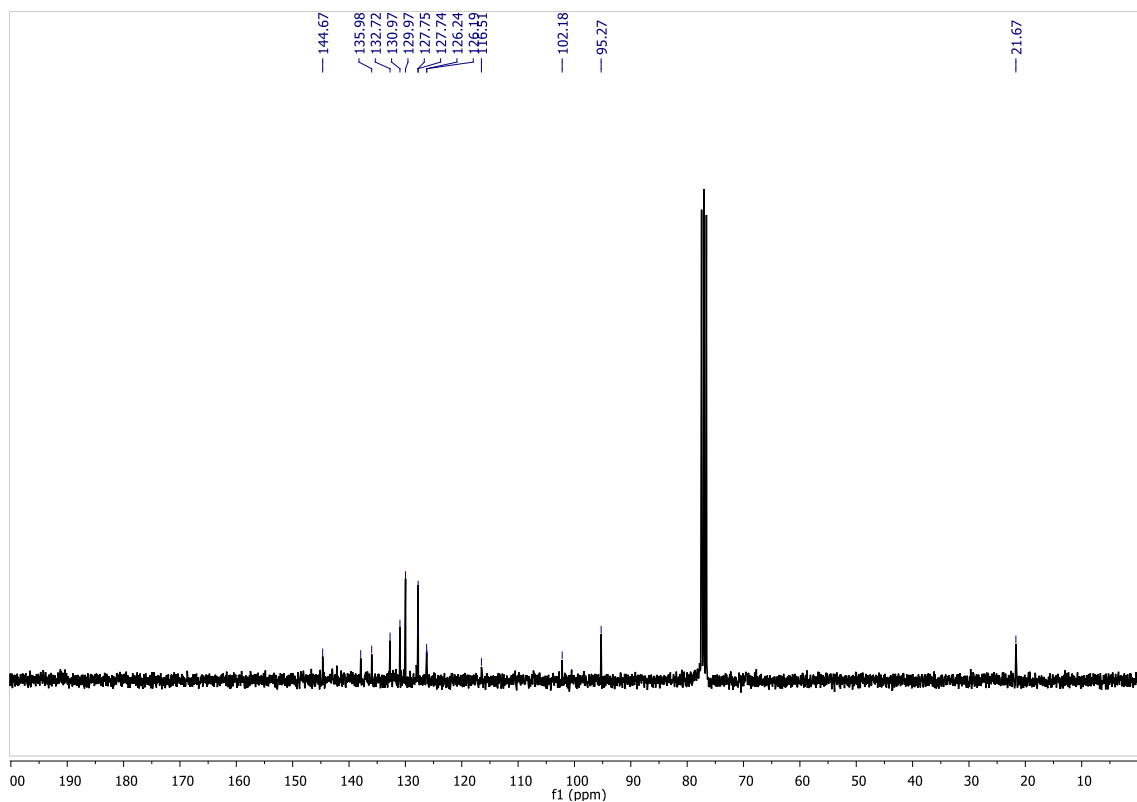
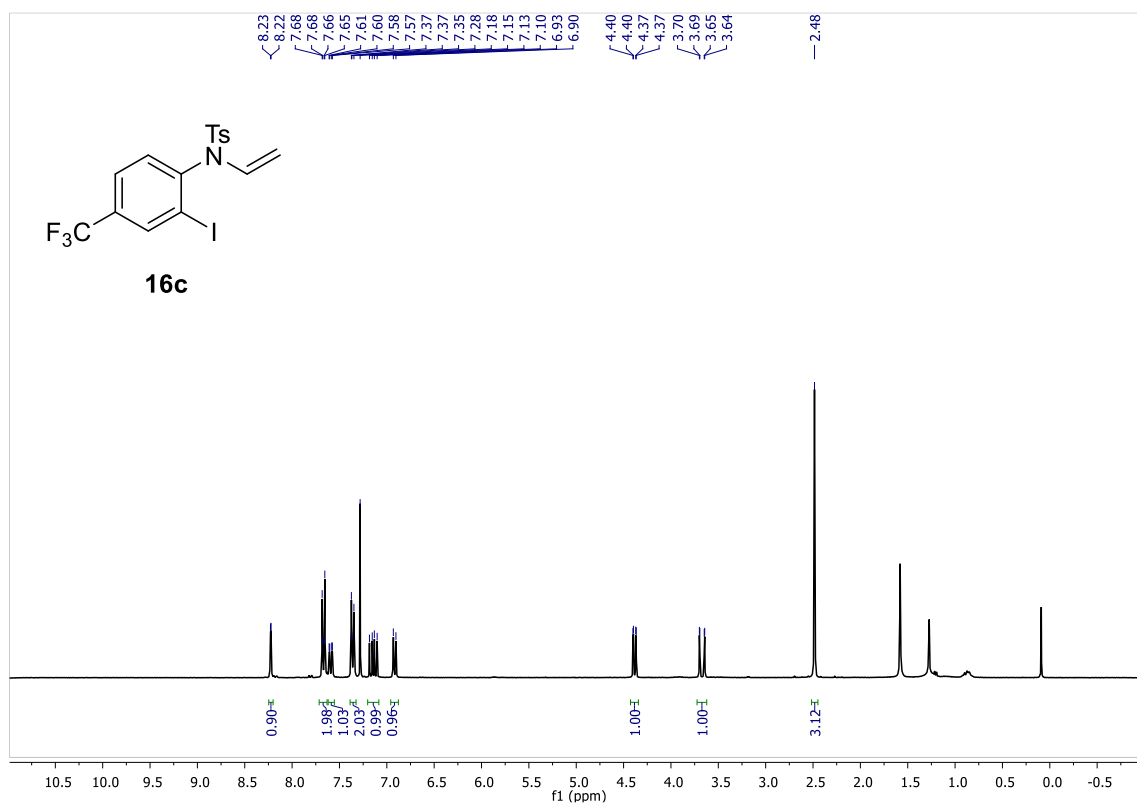
***N*-(2-Iodophenyl)-4-methyl-*N*-vinylbenzenesulfonamide 16a**

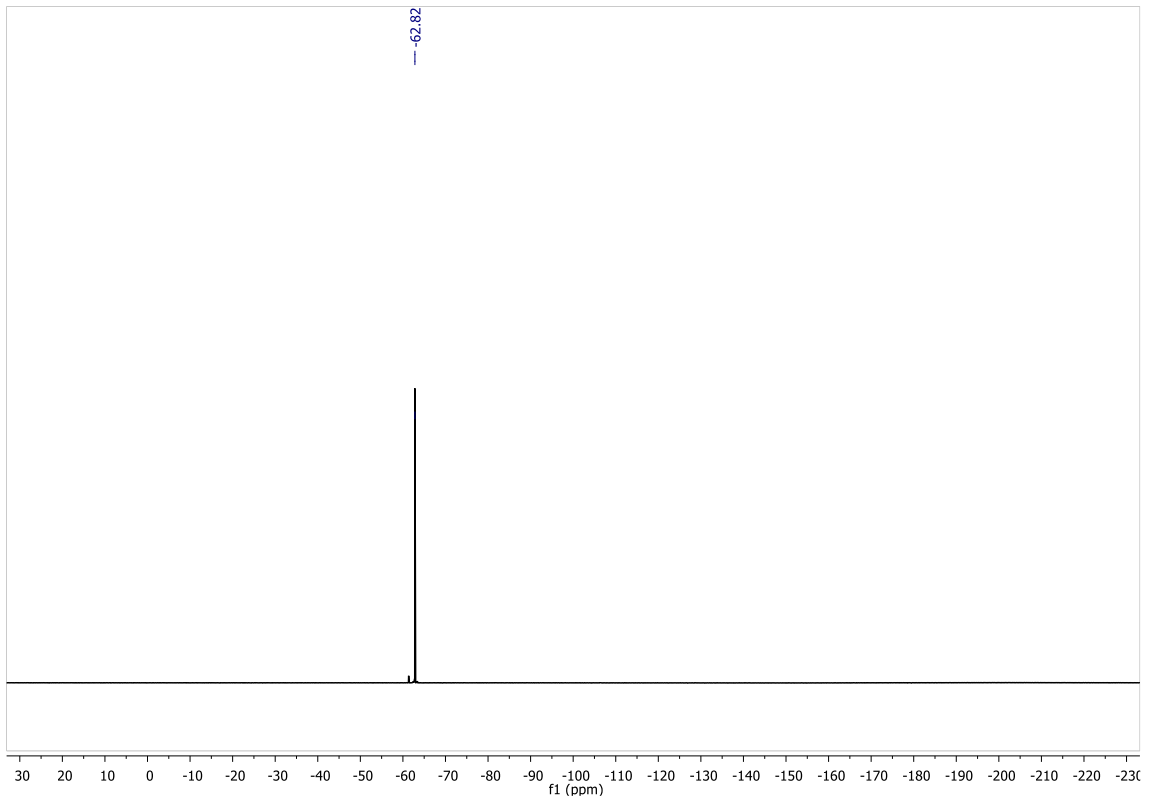


N*-(4-Chloro-2-iodophenyl)-4-methyl-*N*-vinylbenzenesulfonamide **16b*

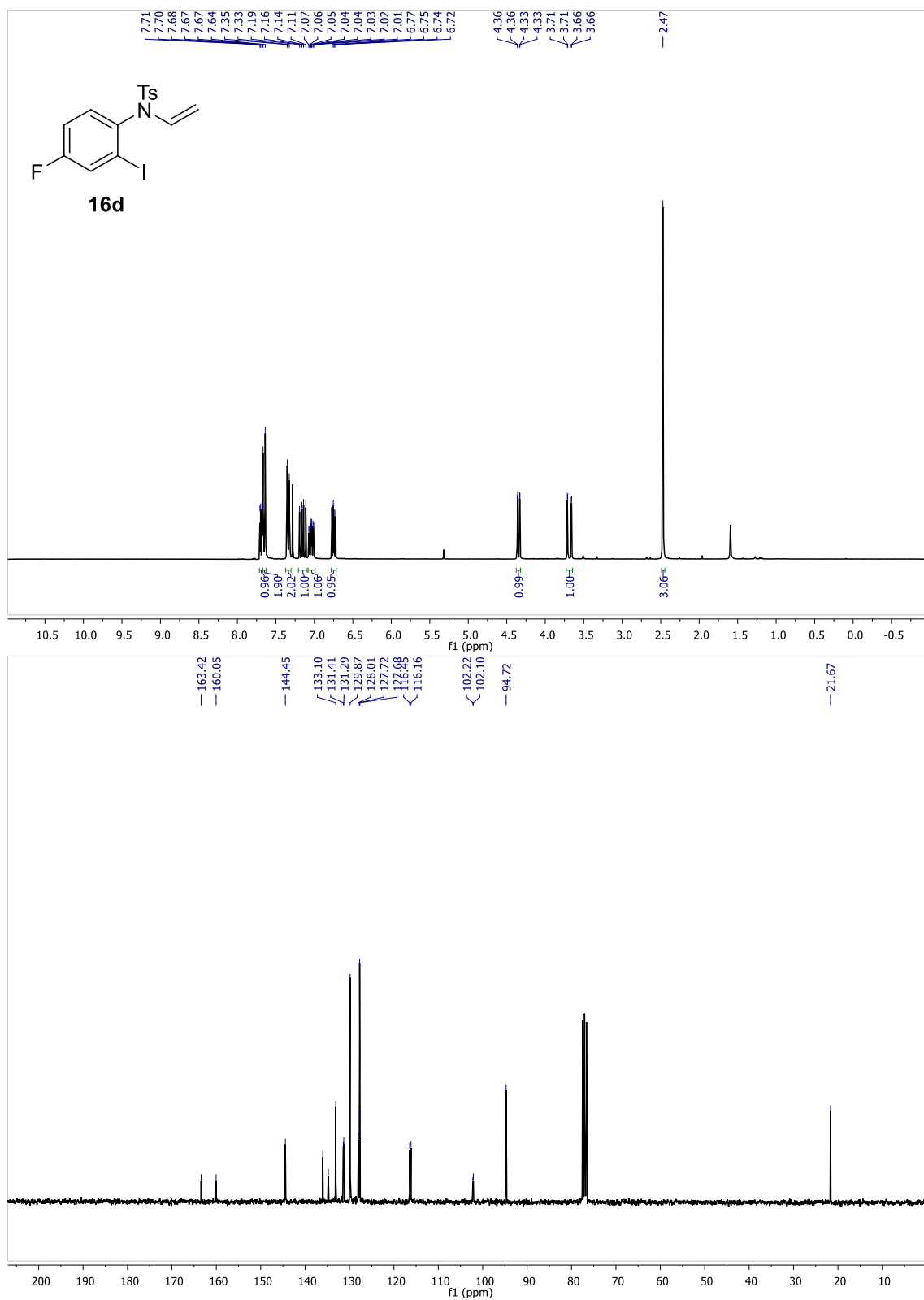


N*-(2-Iodo-4-(trifluoromethyl)phenyl)-4-methyl-*N*-vinylbenzenesulfonamide **16c*

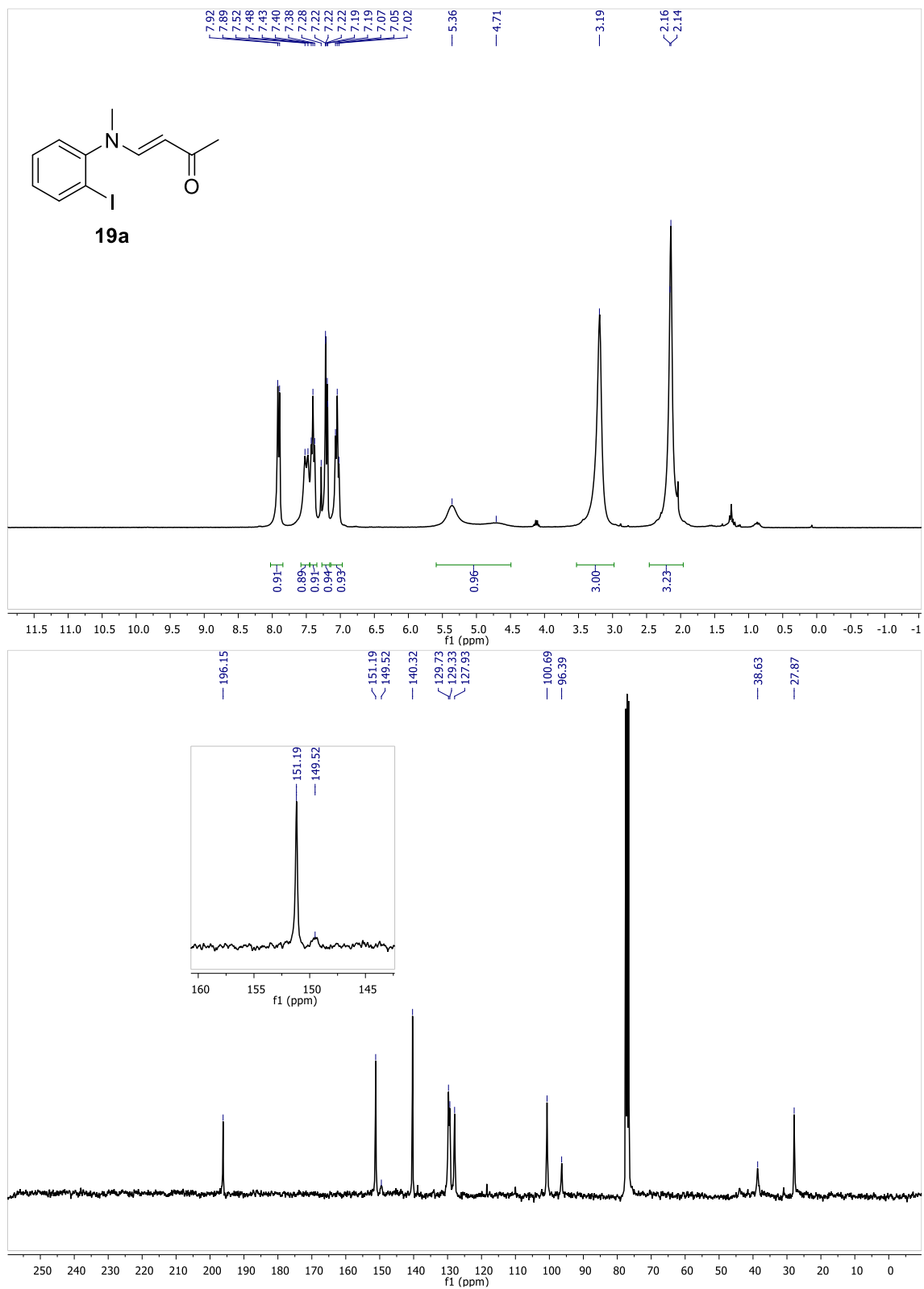




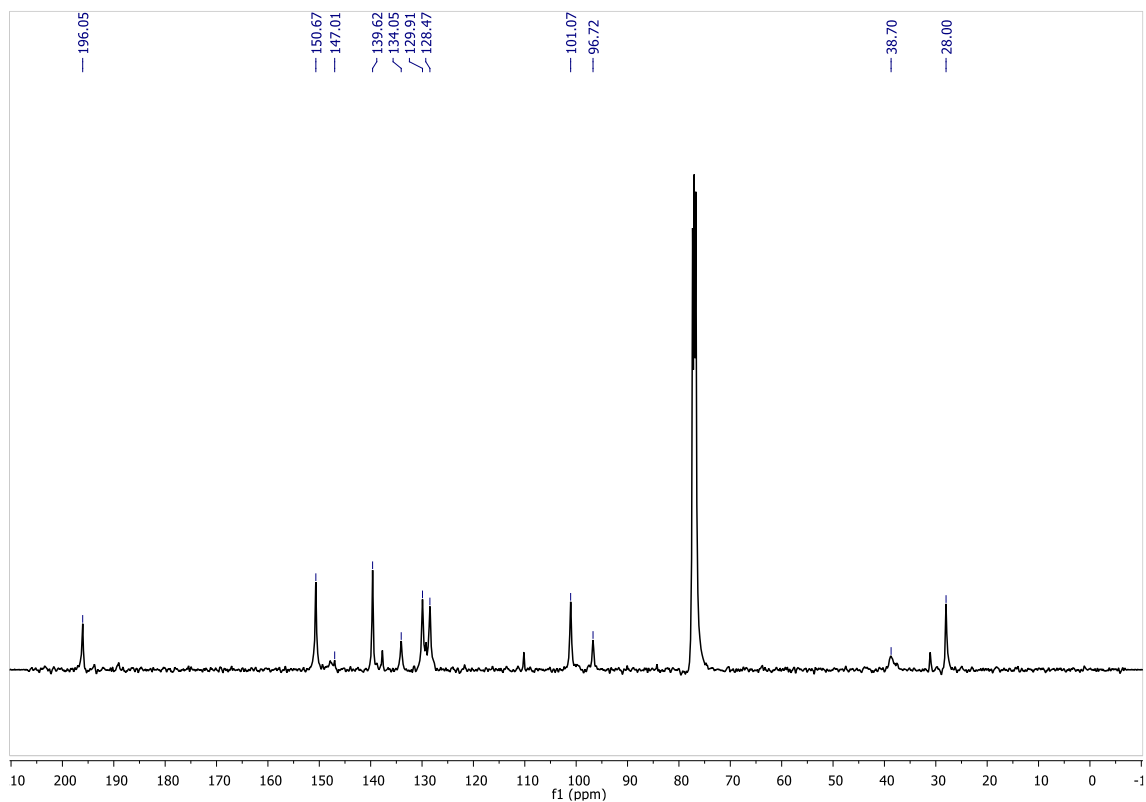
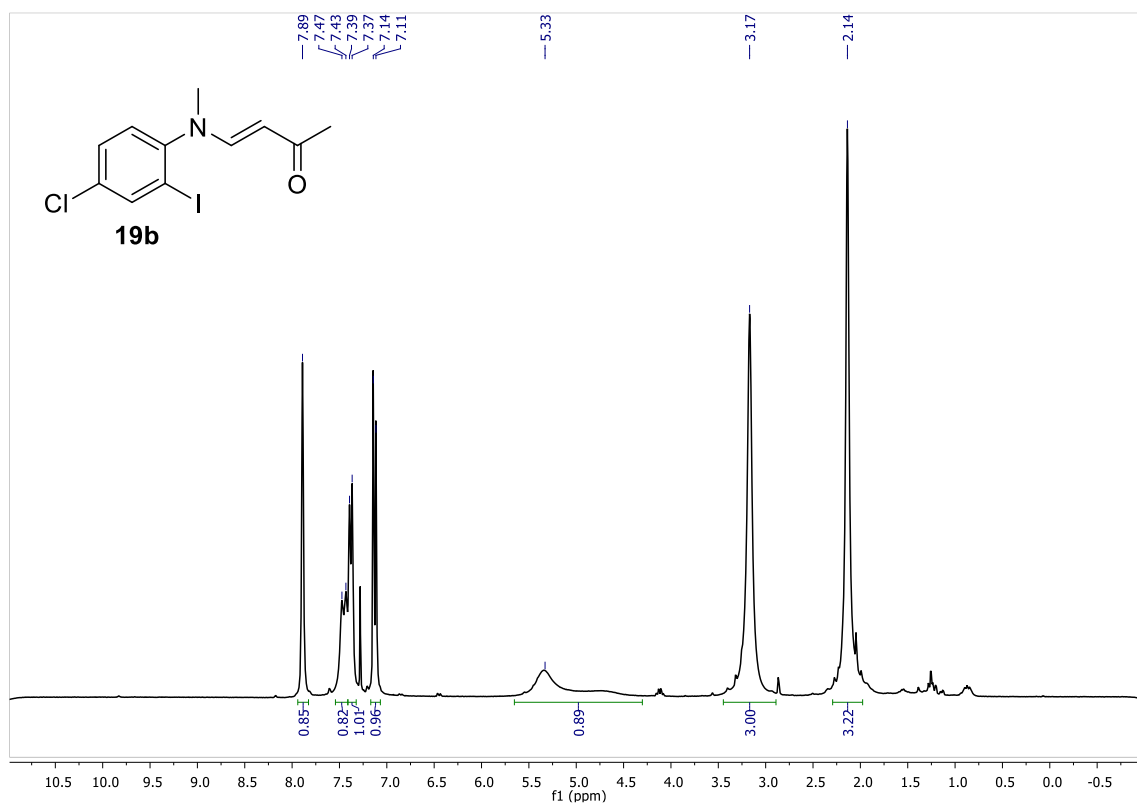
N*-(4-Fluoro-2-iodophenyl)-4-methyl-*N*-vinylbenzenesulfonamide **16d*



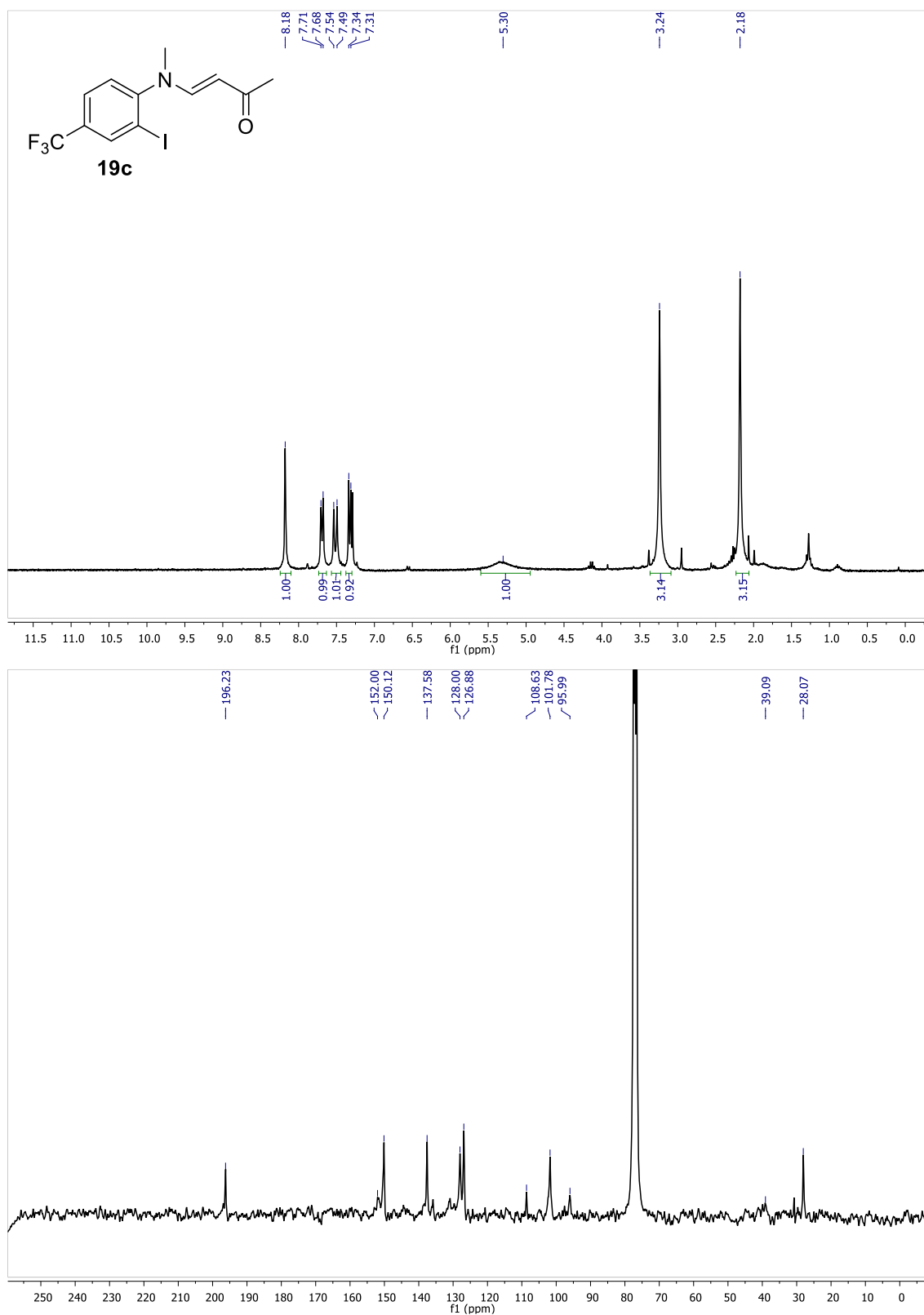
(E)-4-(2-Iodophenyl)(methyl)amino)but-3-en-2-one 19a



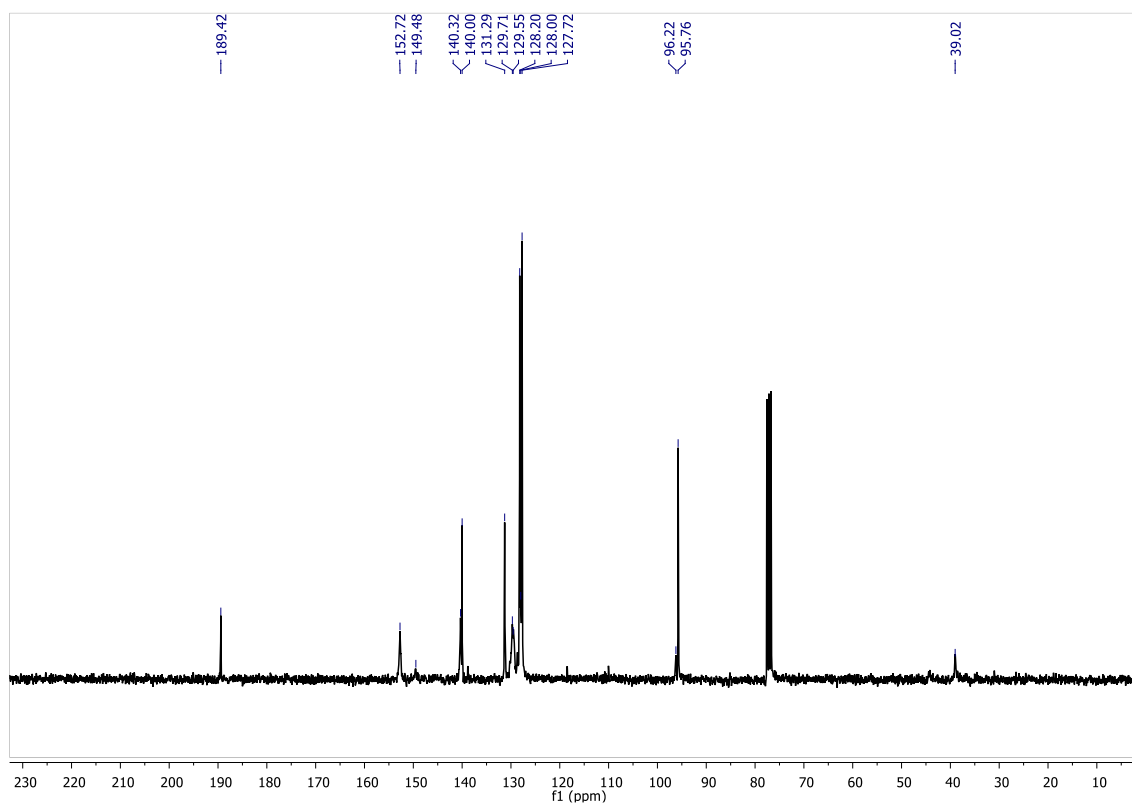
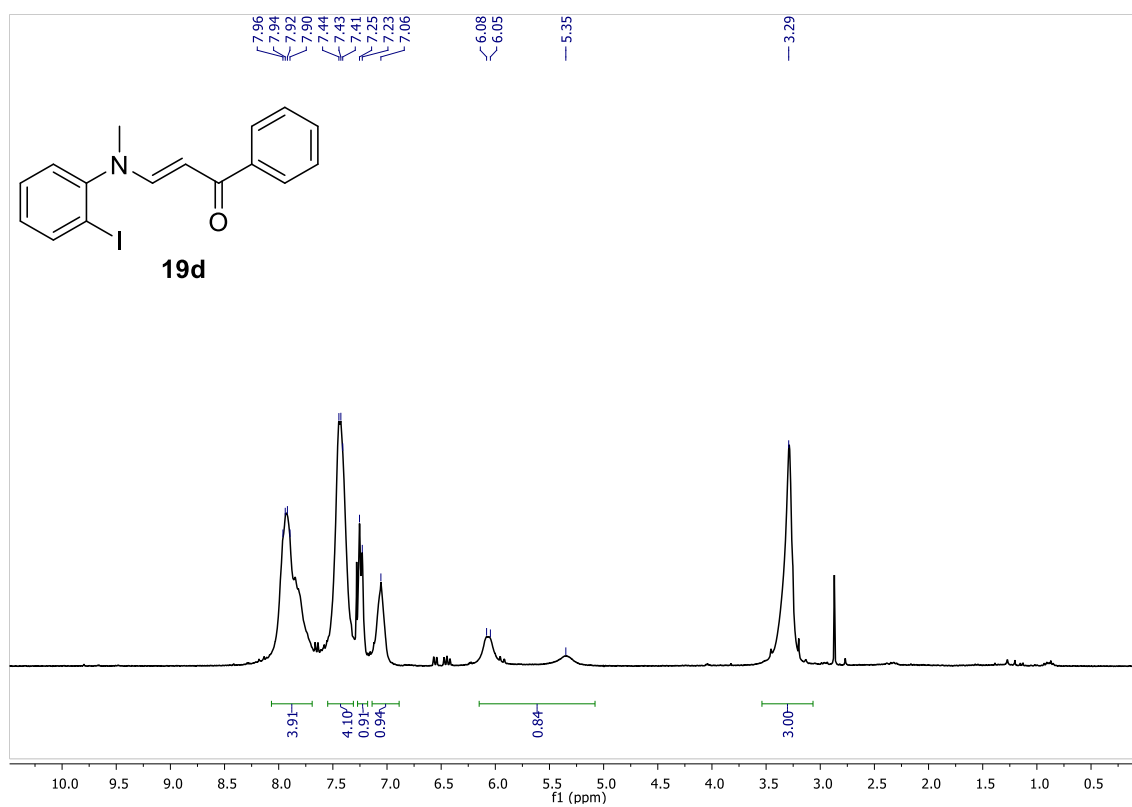
(E)-4-(4-Chloro-2-iodophenyl)(methyl)amino)but-3-en-2-one **19b**



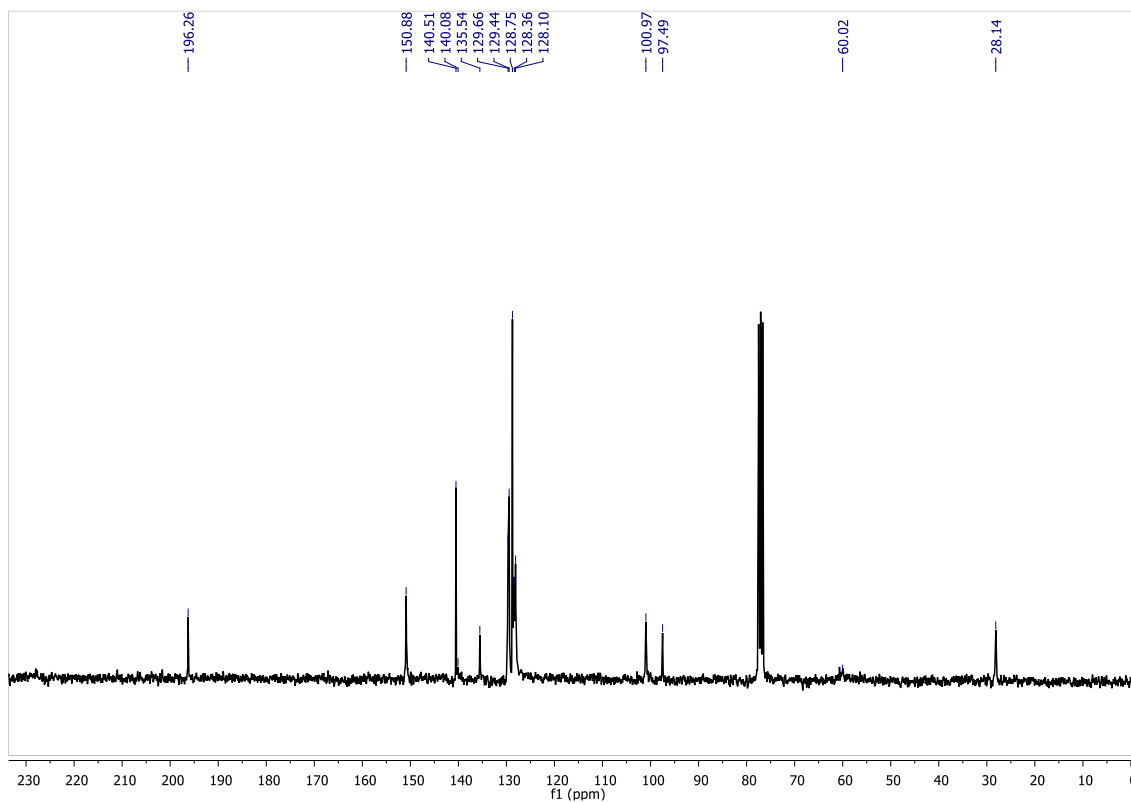
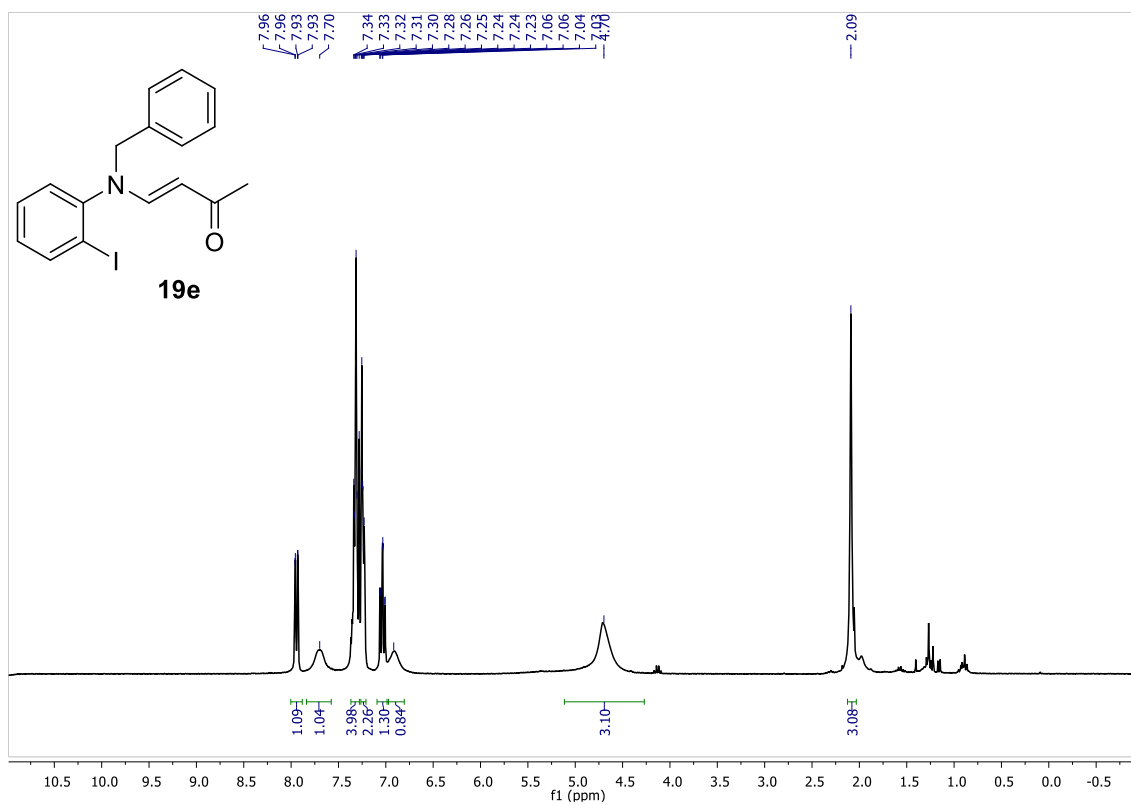
(E)-4-((2-Iodo-4-(trifluoromethyl)phenyl)(methyl)amino)but-3-en-2-one 19c



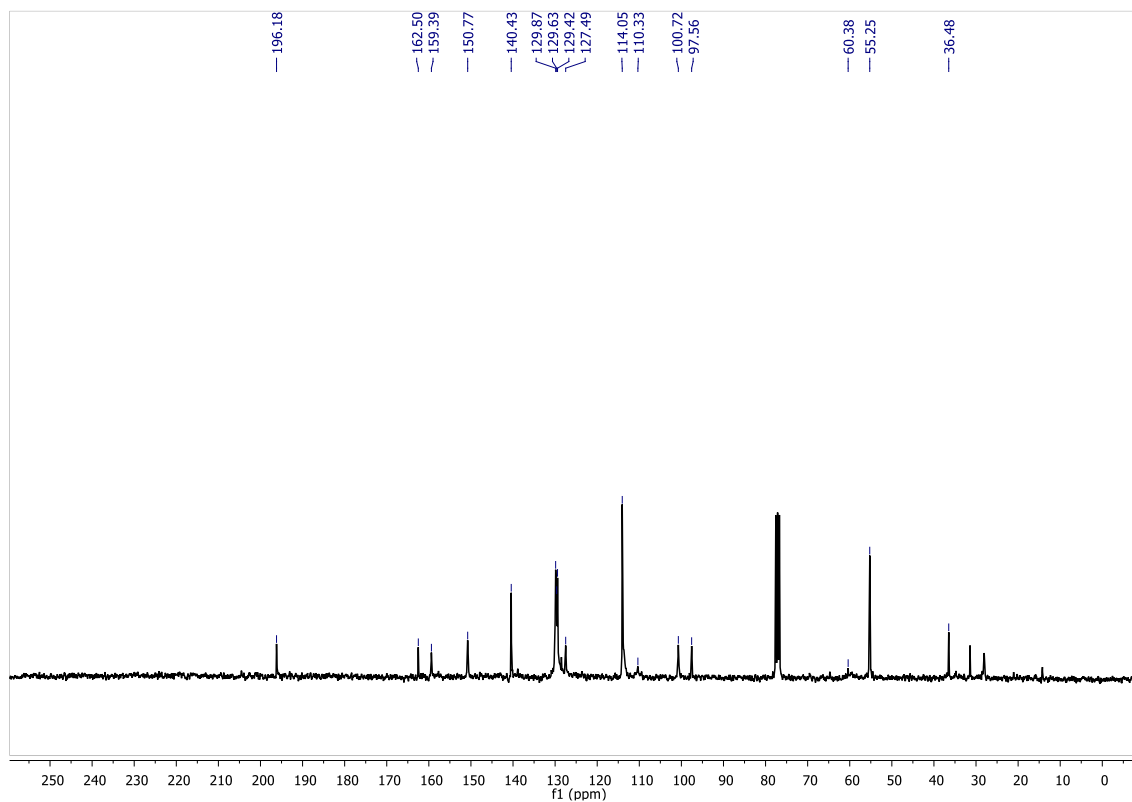
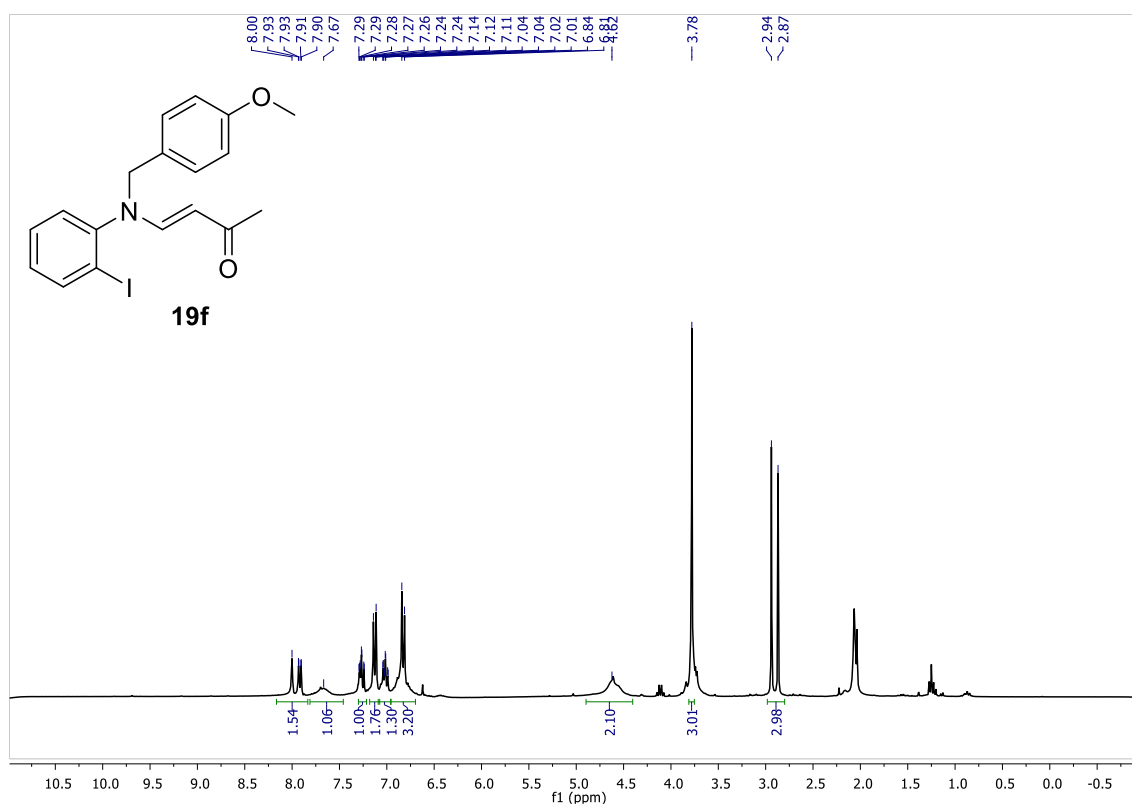
(E)-3-((2-Iodophenyl)(methyl)amino)-1-phenylprop-2-en-1-one 19d



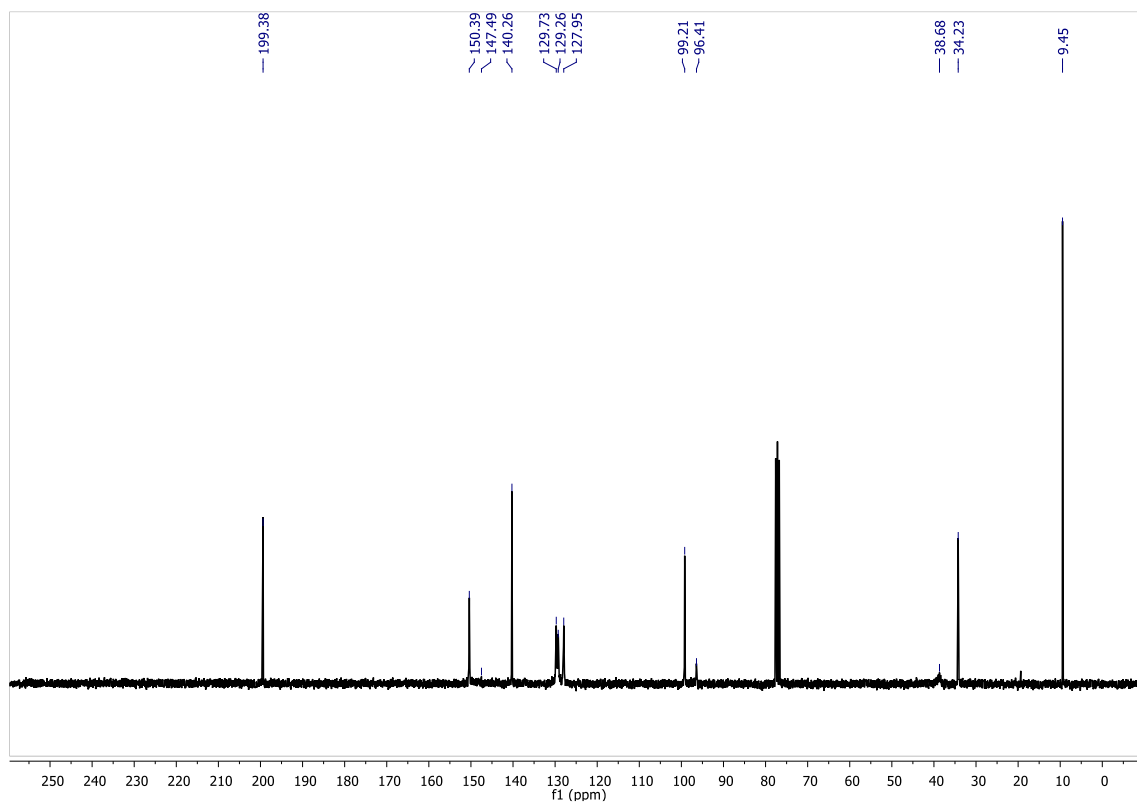
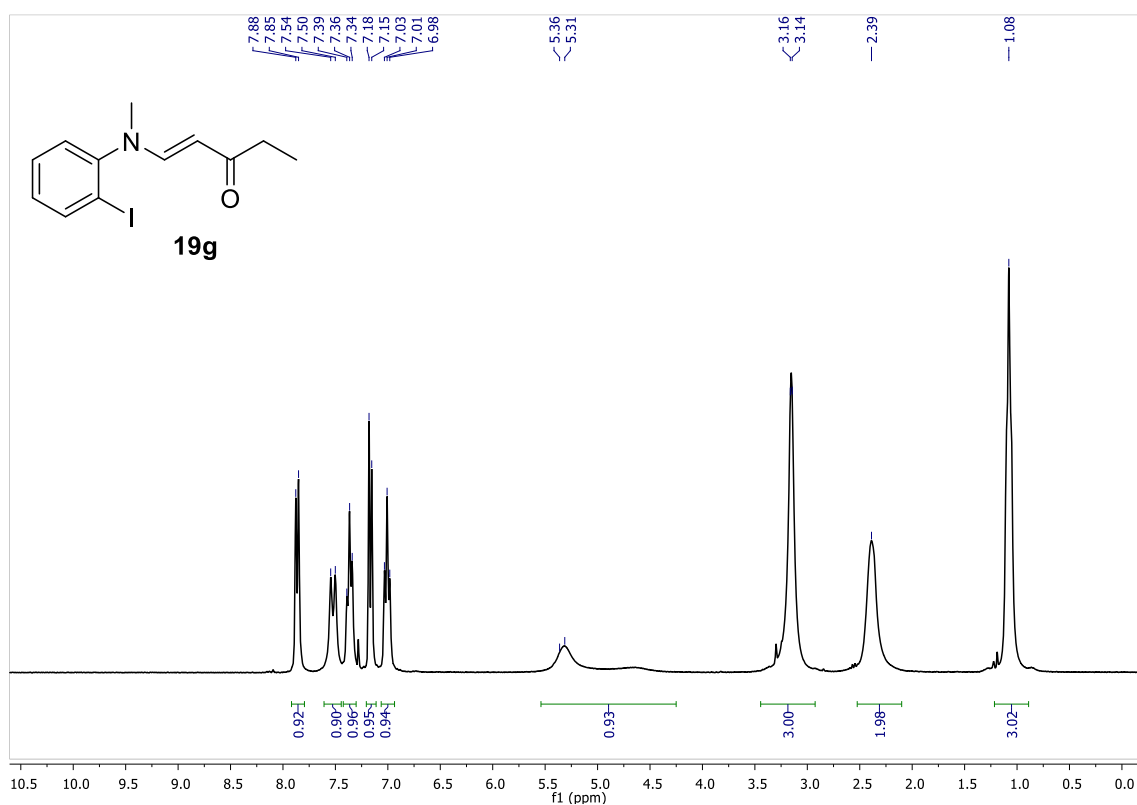
(E)-4-(Benzyl(2-iodophenyl)amino)but-3-en-2-one 19e



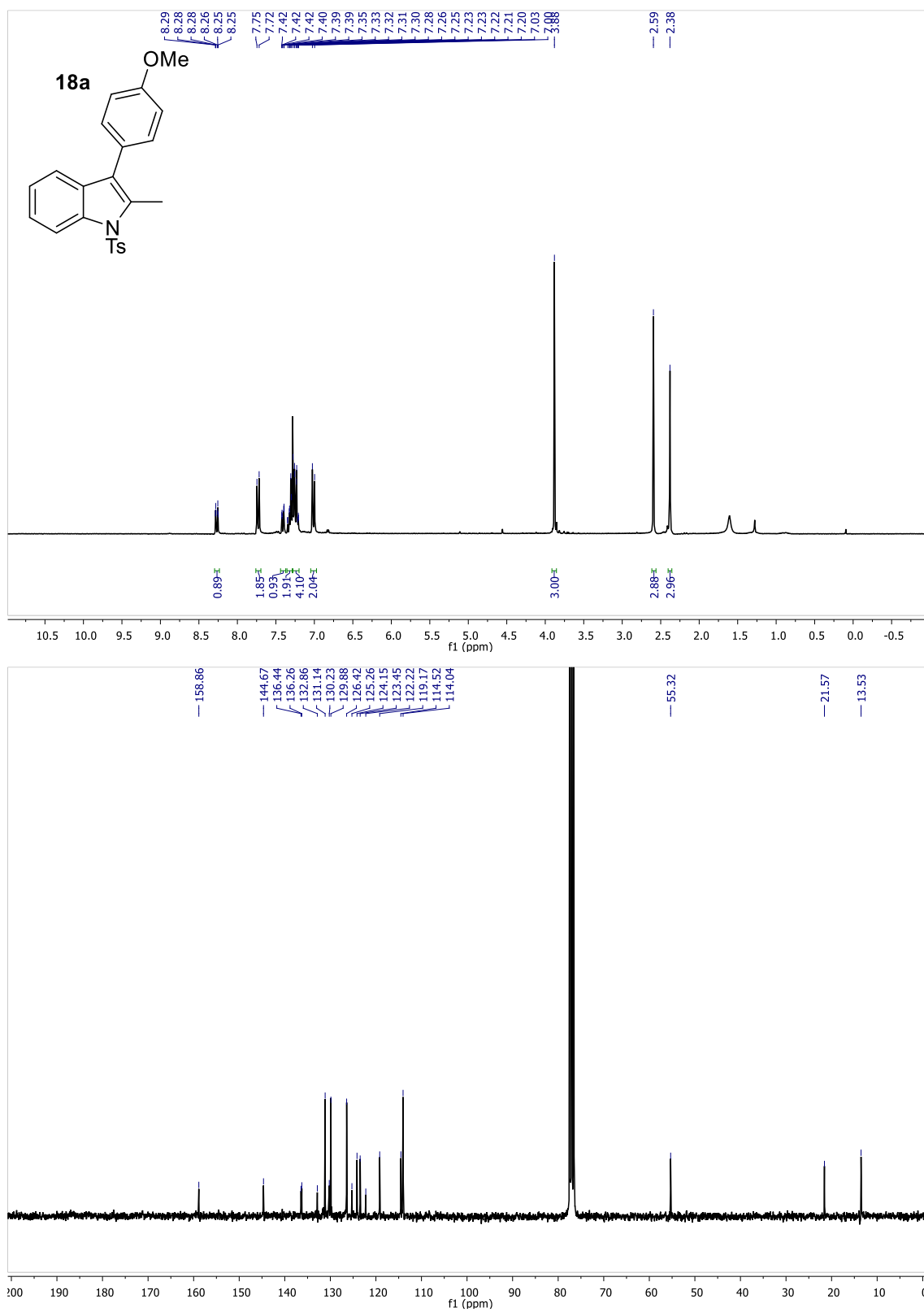
(E)-4-((2-Iodophenyl)(4-methoxybenzyl)amino)but-3-en-2-one 19f



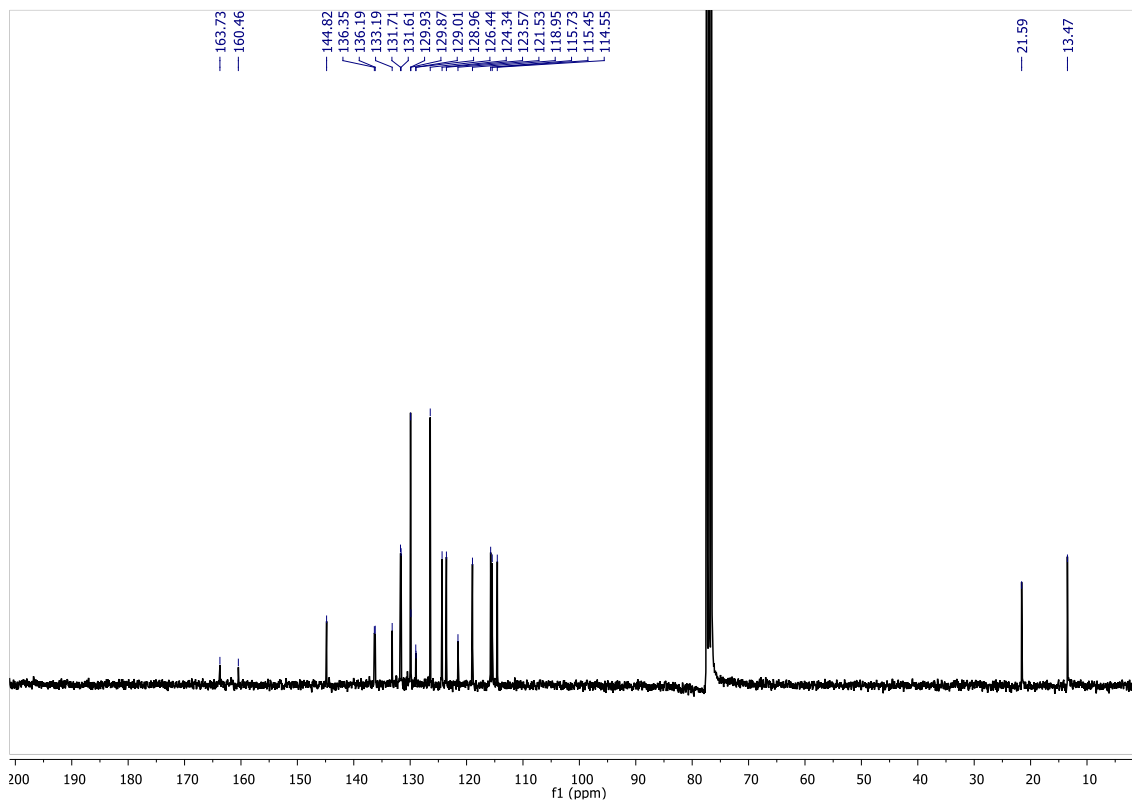
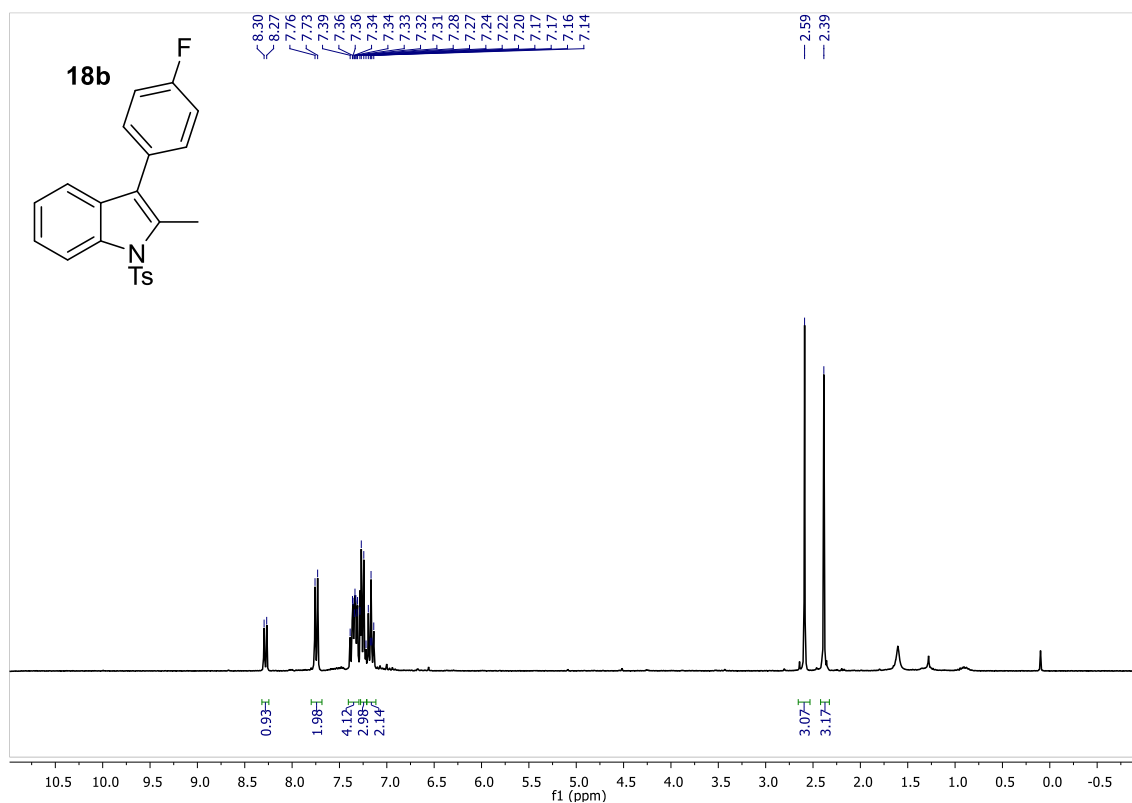
(E)-1-((2-Iodophenyl)(methyl)amino)pent-1-en-3-one 19g



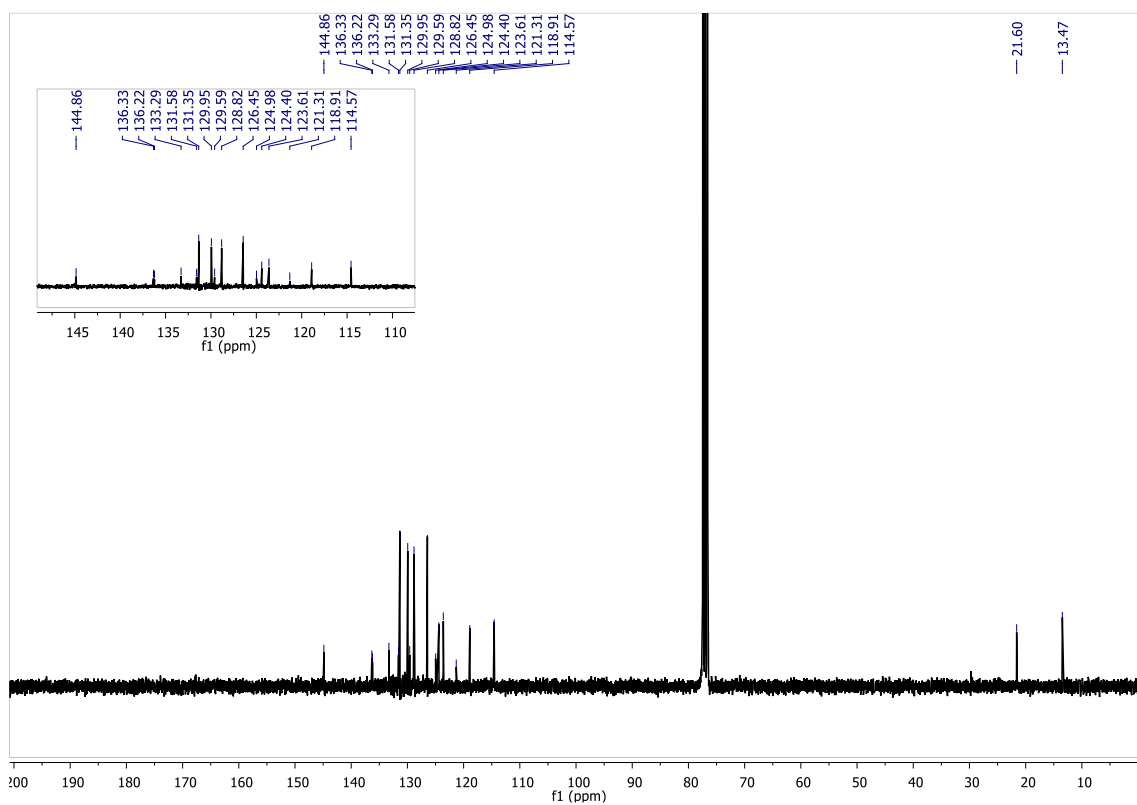
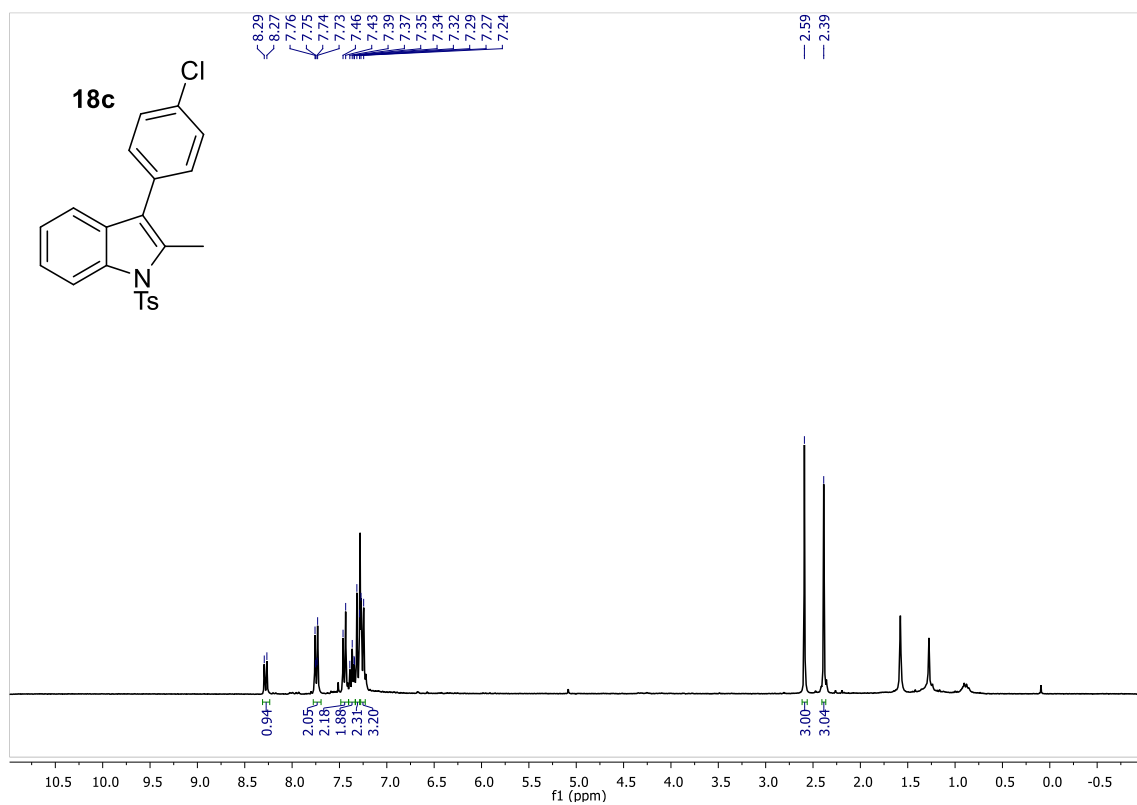
3-(4-Methoxyphenyl)-2-methyl-1-tosyl-1H-indole **18a**



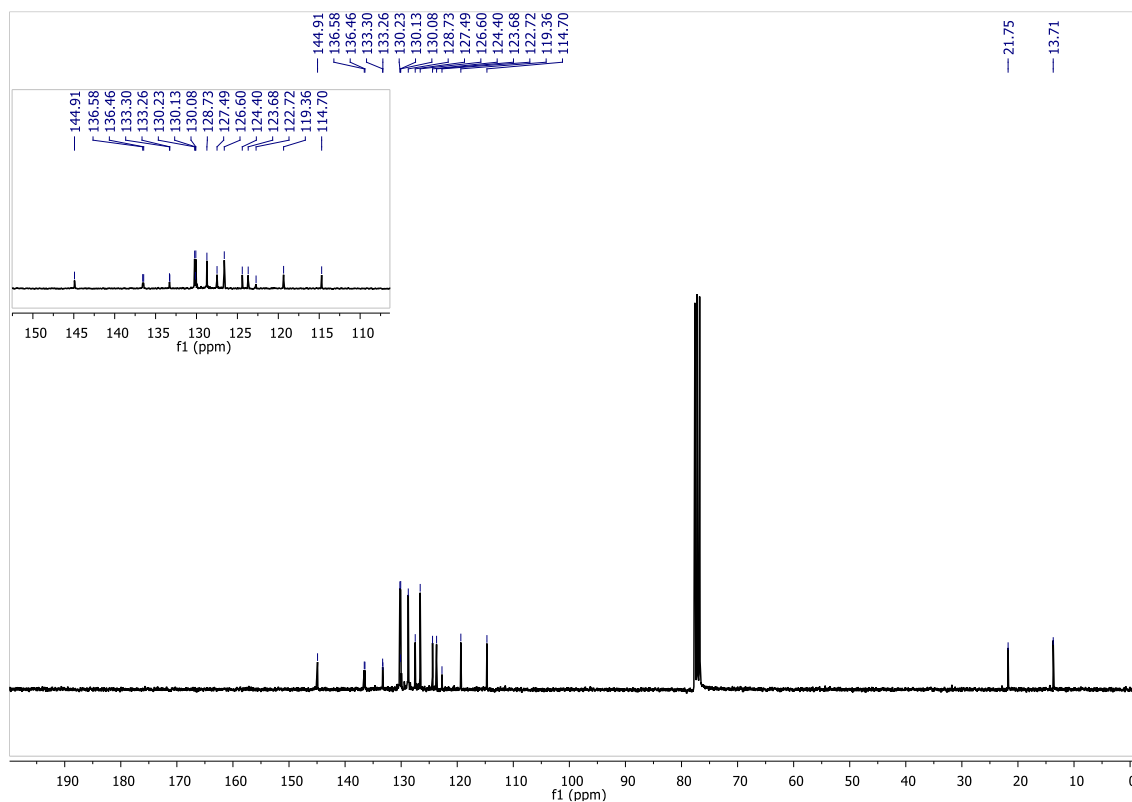
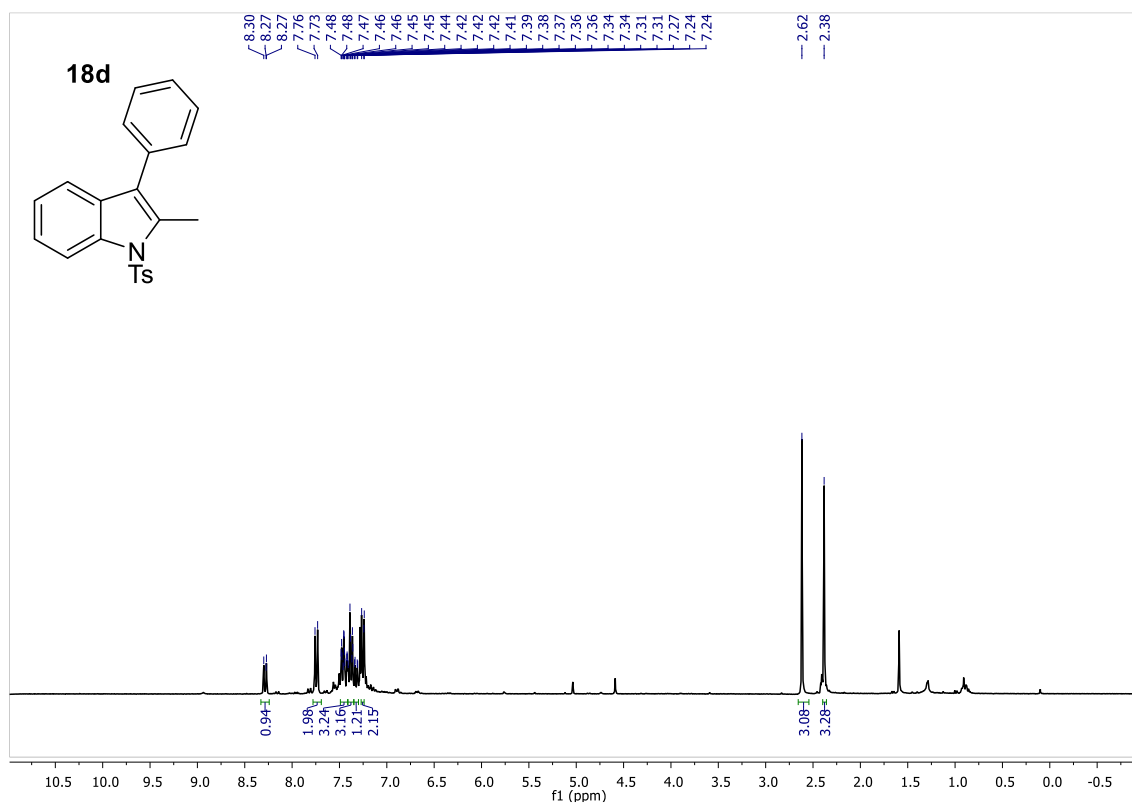
3-(4-Fluorophenyl)-2-methyl-1-tosyl-1H-indole **18b**



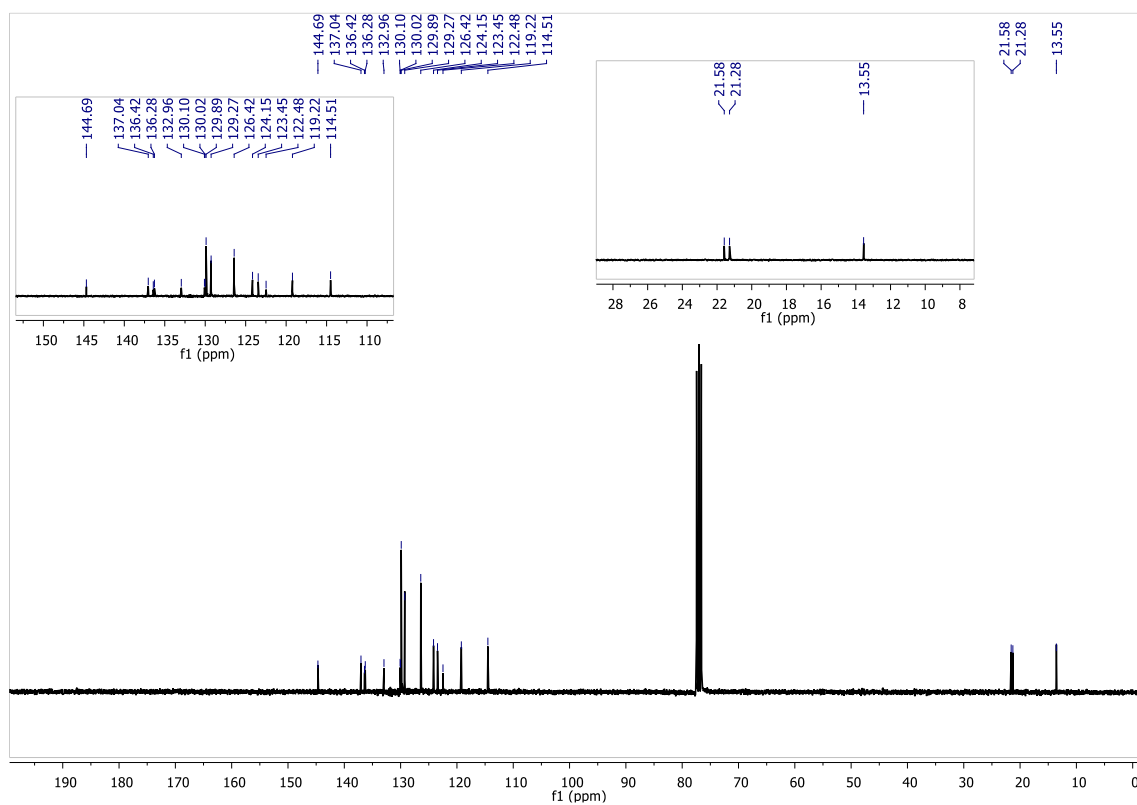
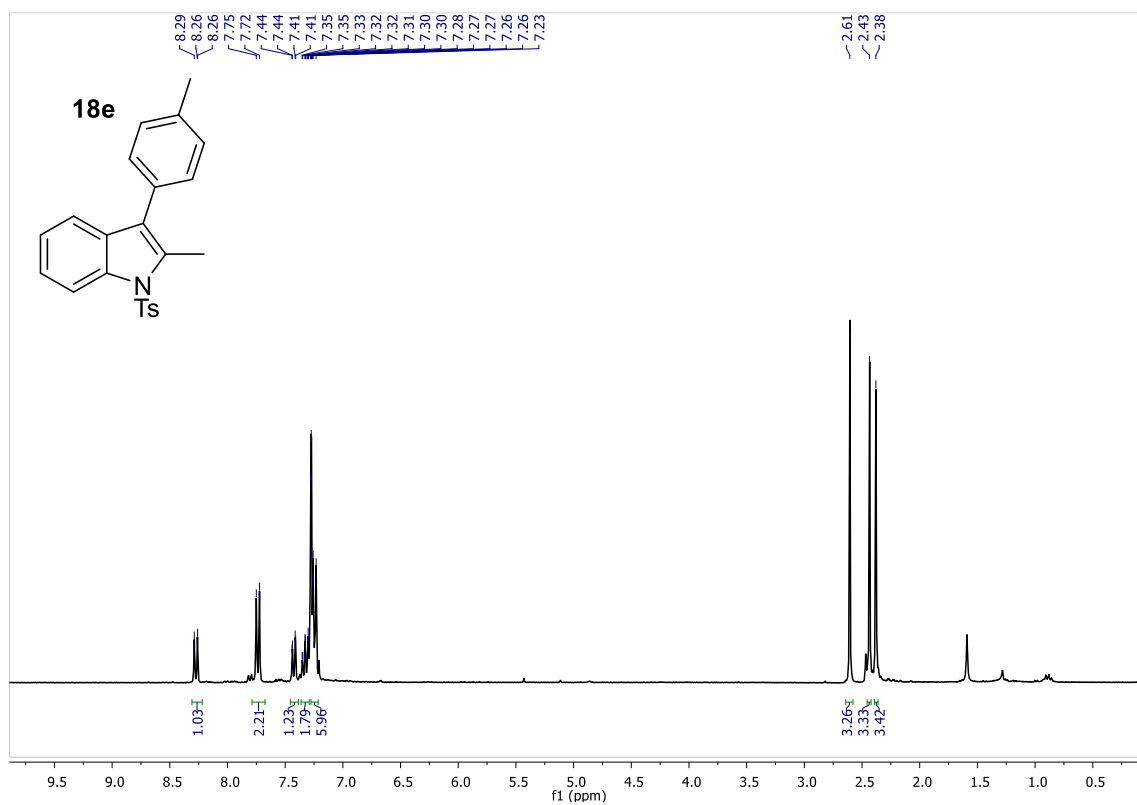
3-(4-Chlorophenyl)-2-methyl-1-tosyl-1H-indole **18c**



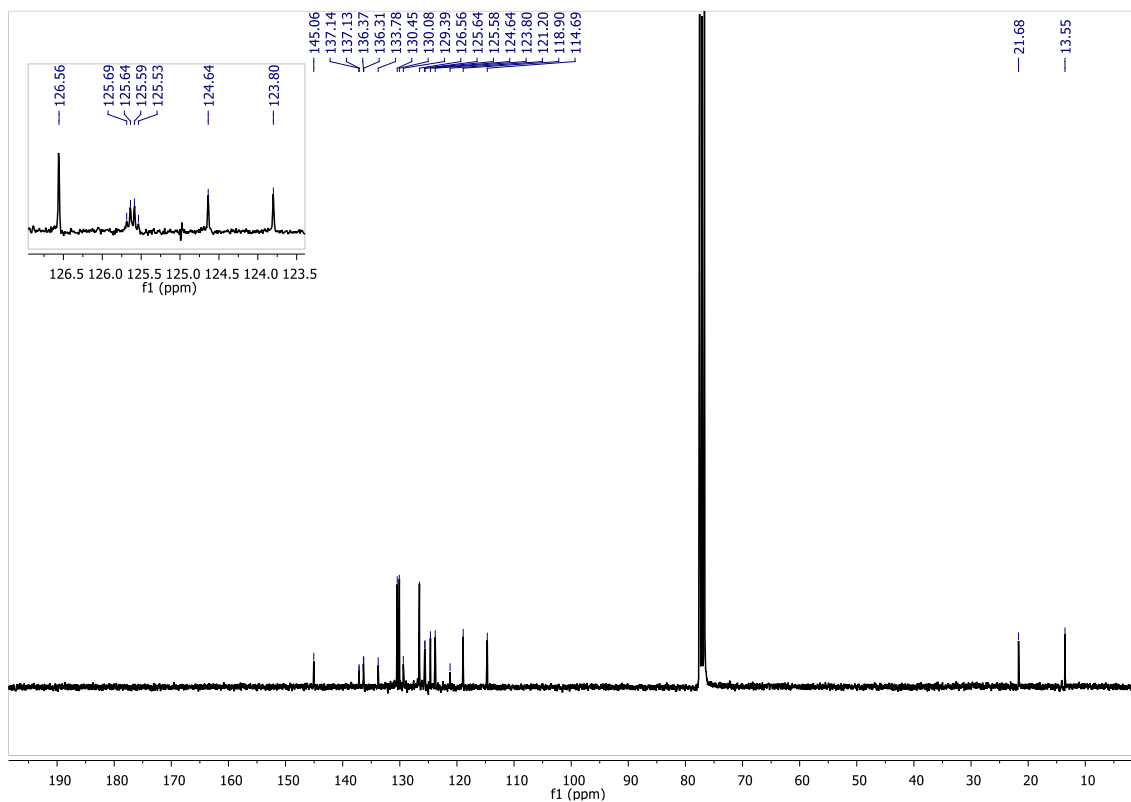
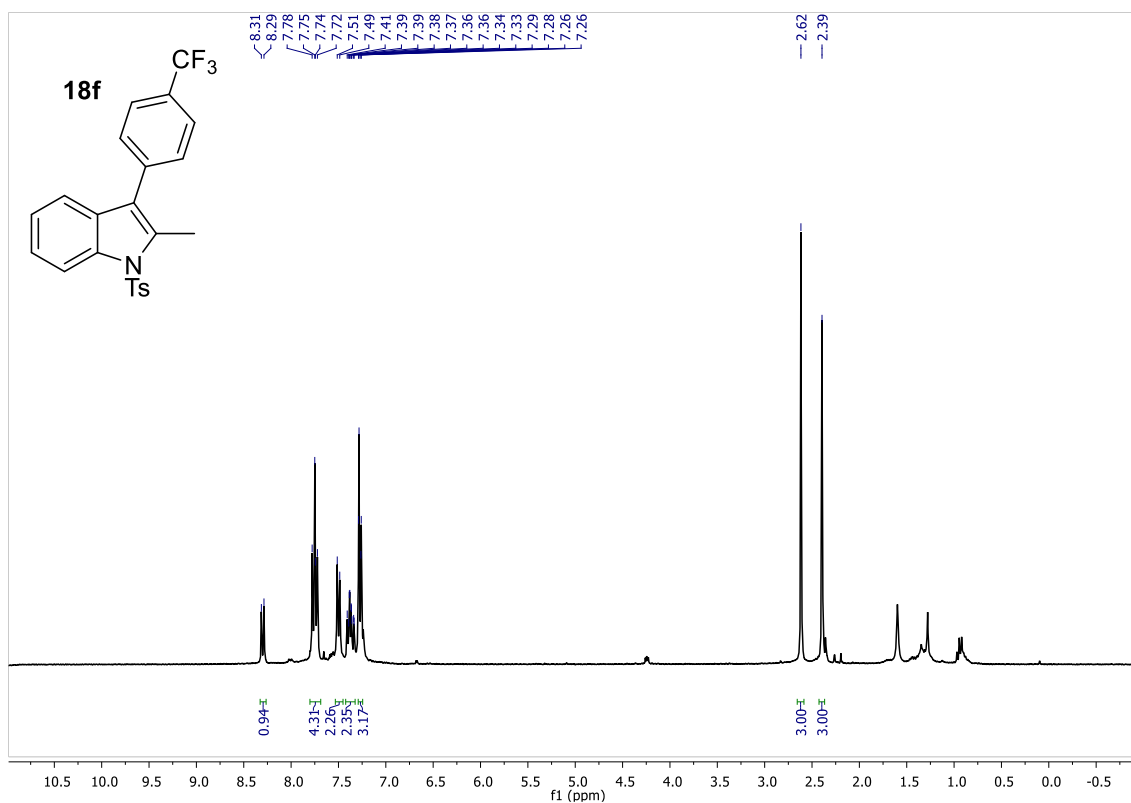
2-Methyl-3-phenyl-1-tosyl-1H-indole **18d**



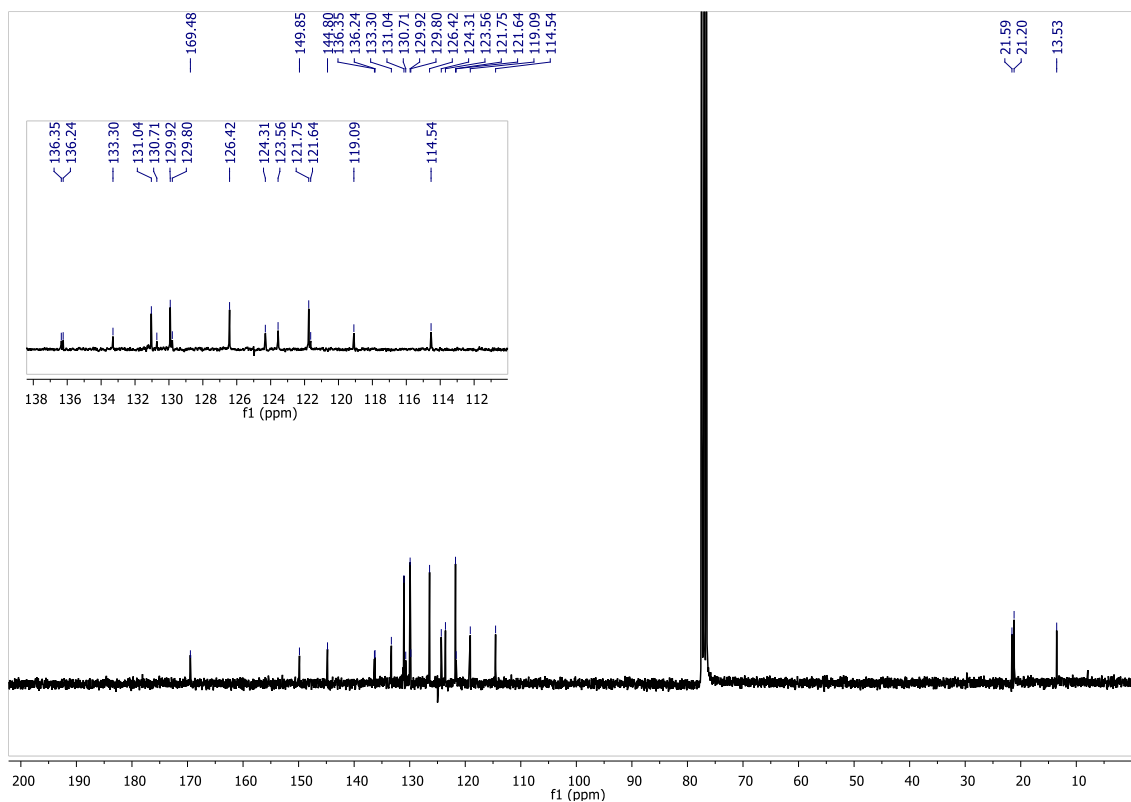
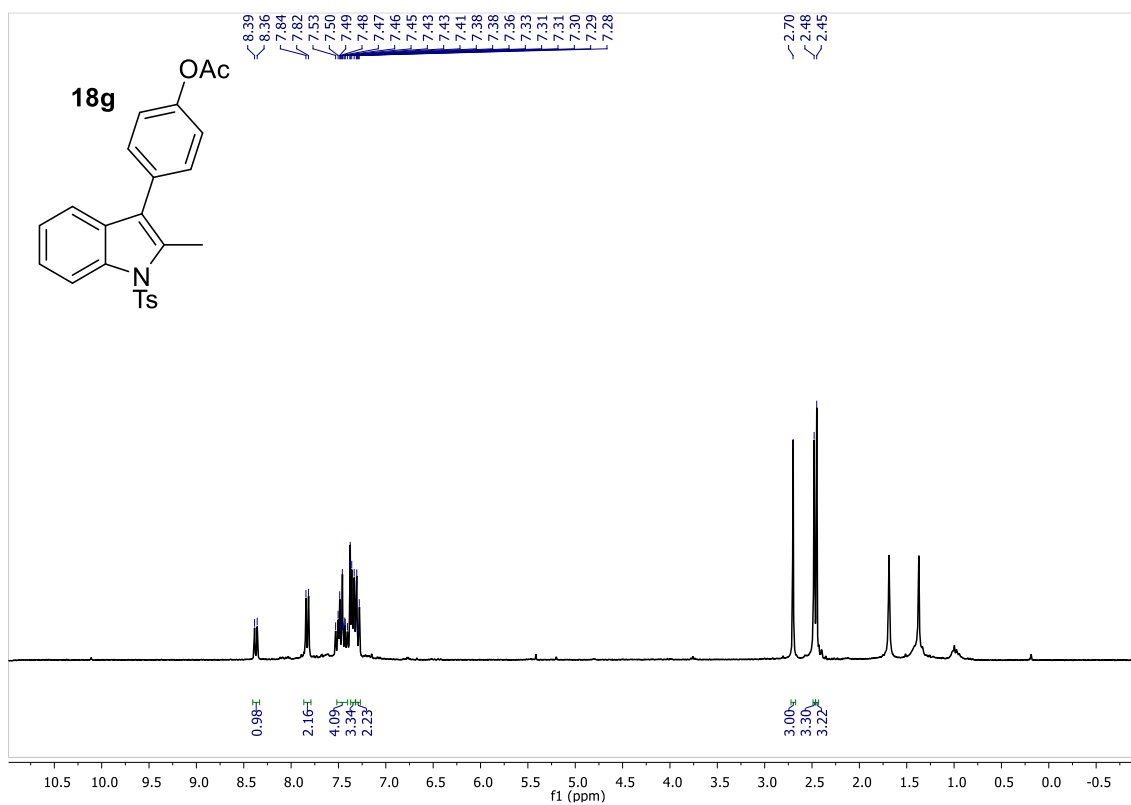
2-Methyl-3-(*p*-tolyl)-1-tosyl-1*H*-indole **18e**



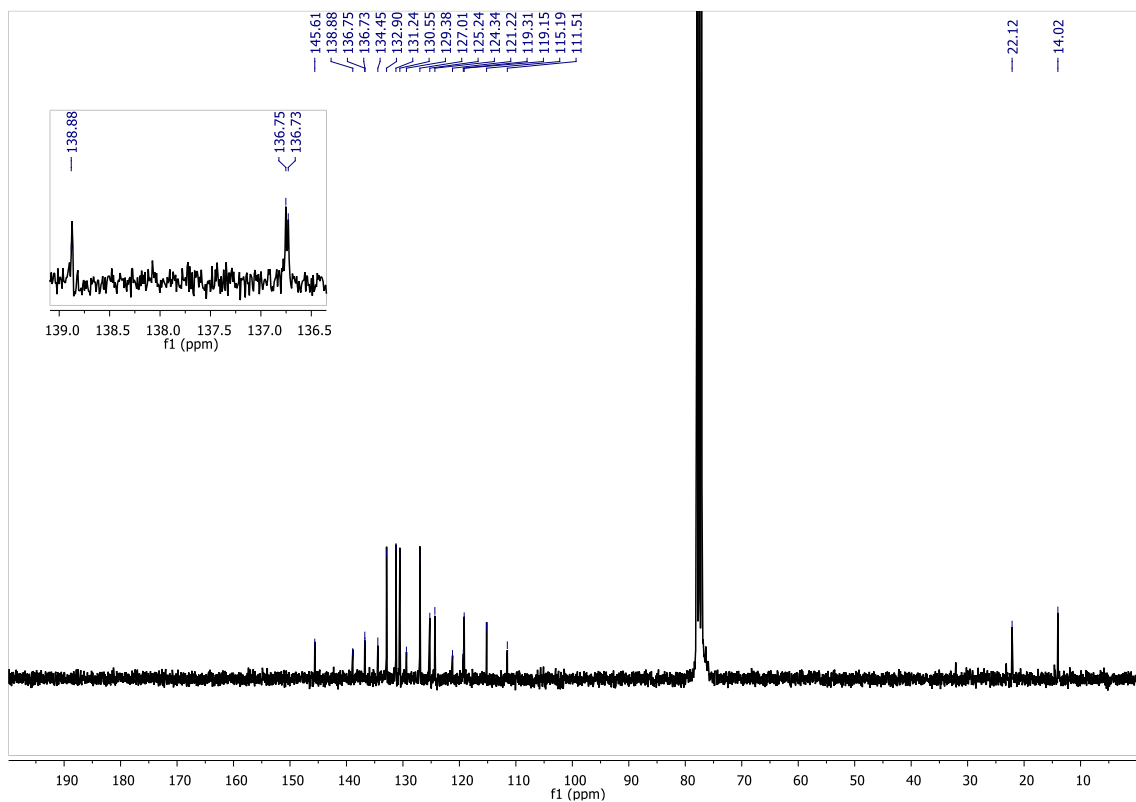
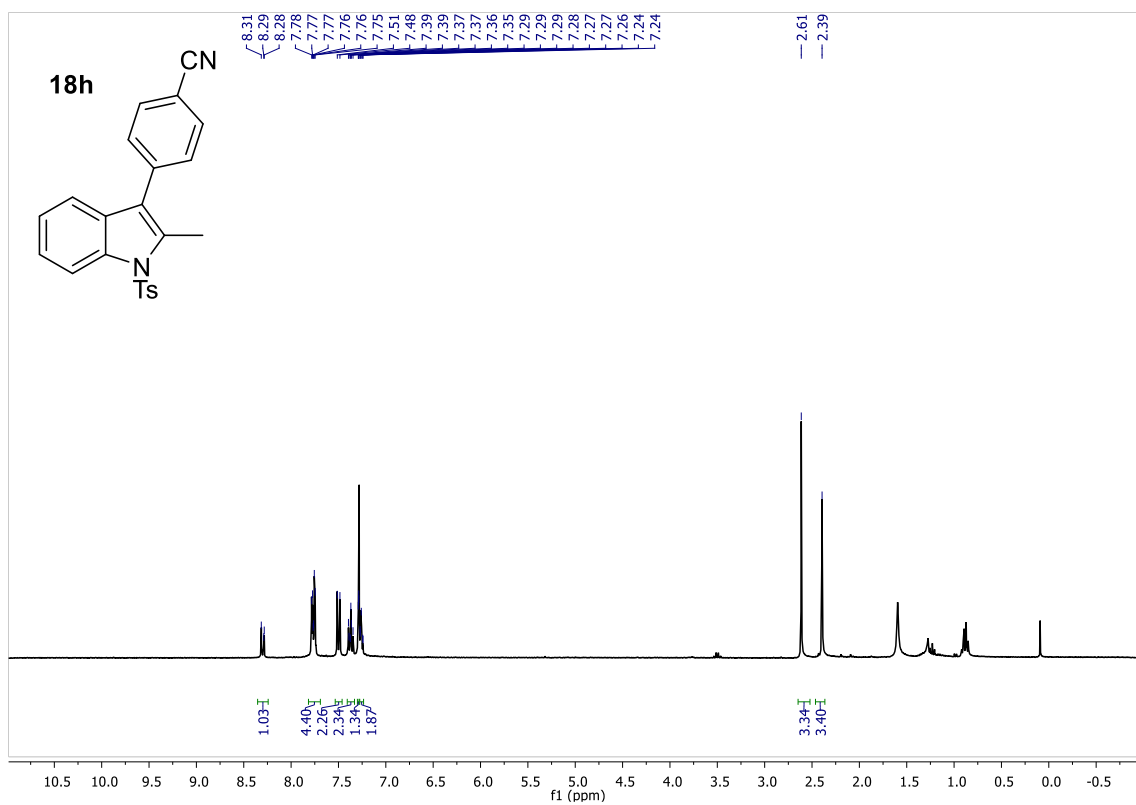
2-Methyl-1-tosyl-3-(4-(trifluoromethyl)phenyl)-1H-indole 18f



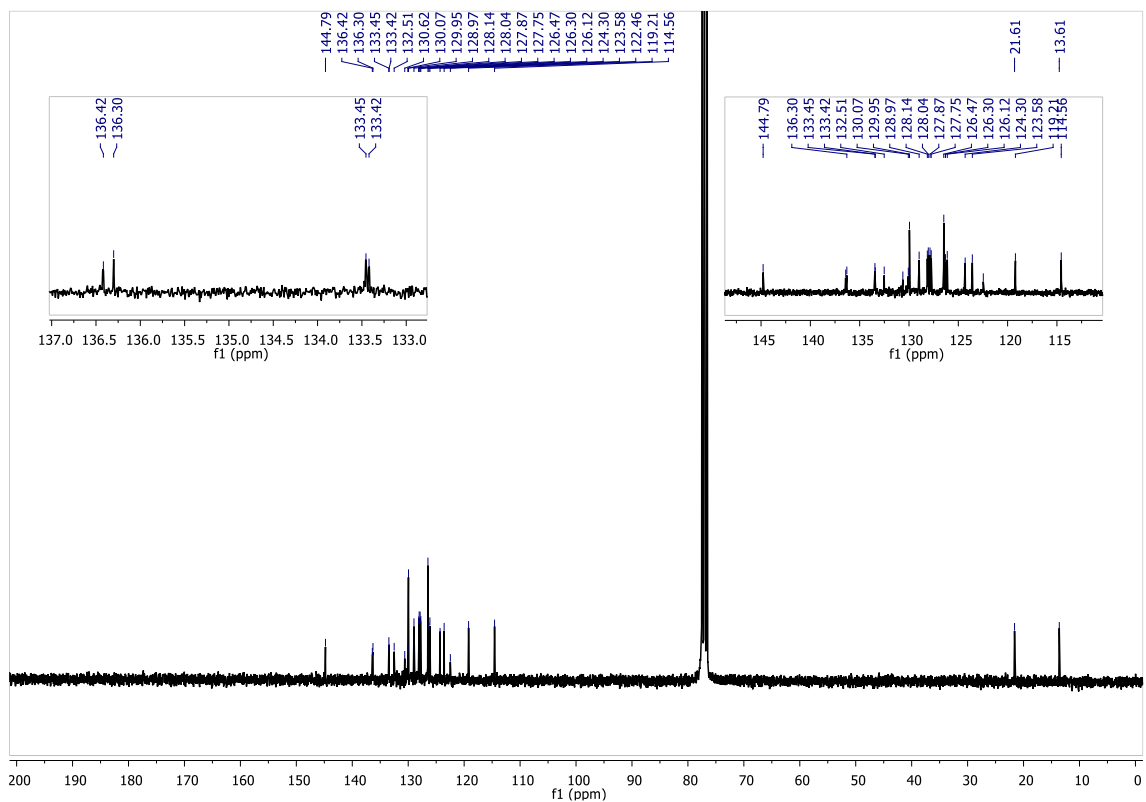
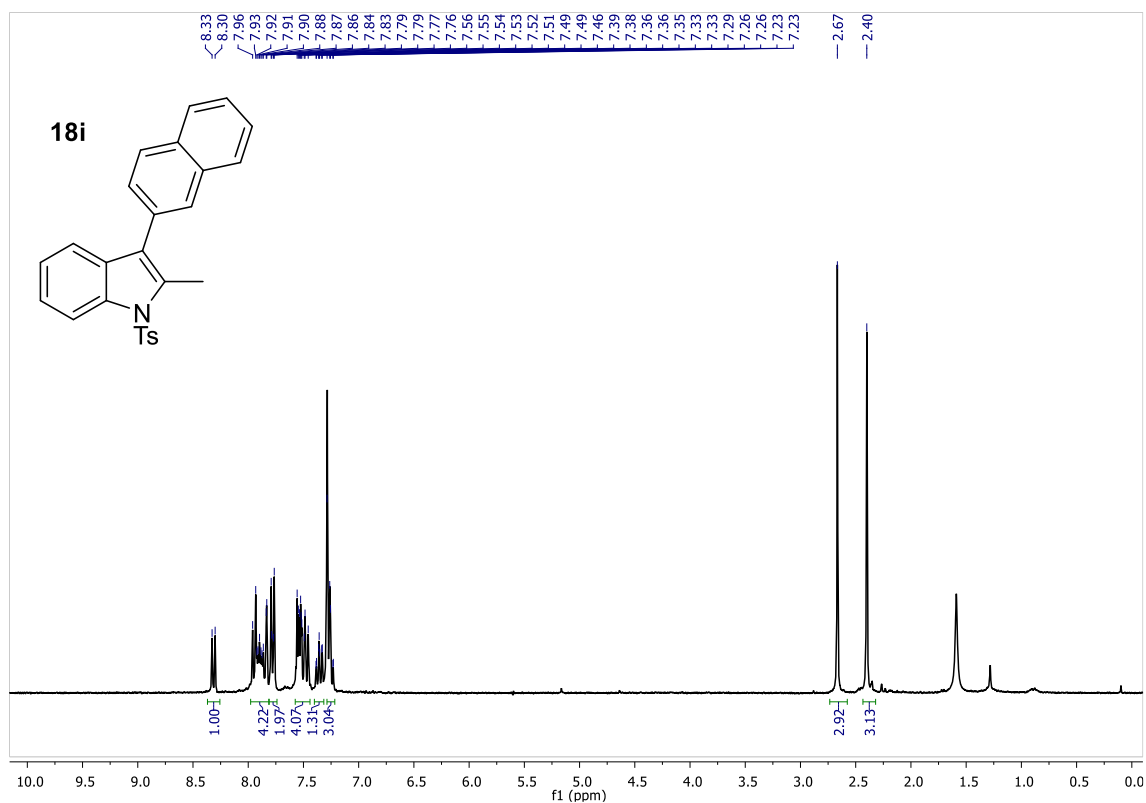
4-(2-Methyl-1-tosyl-1H-indol-3-yl)phenyl acetate **18g**



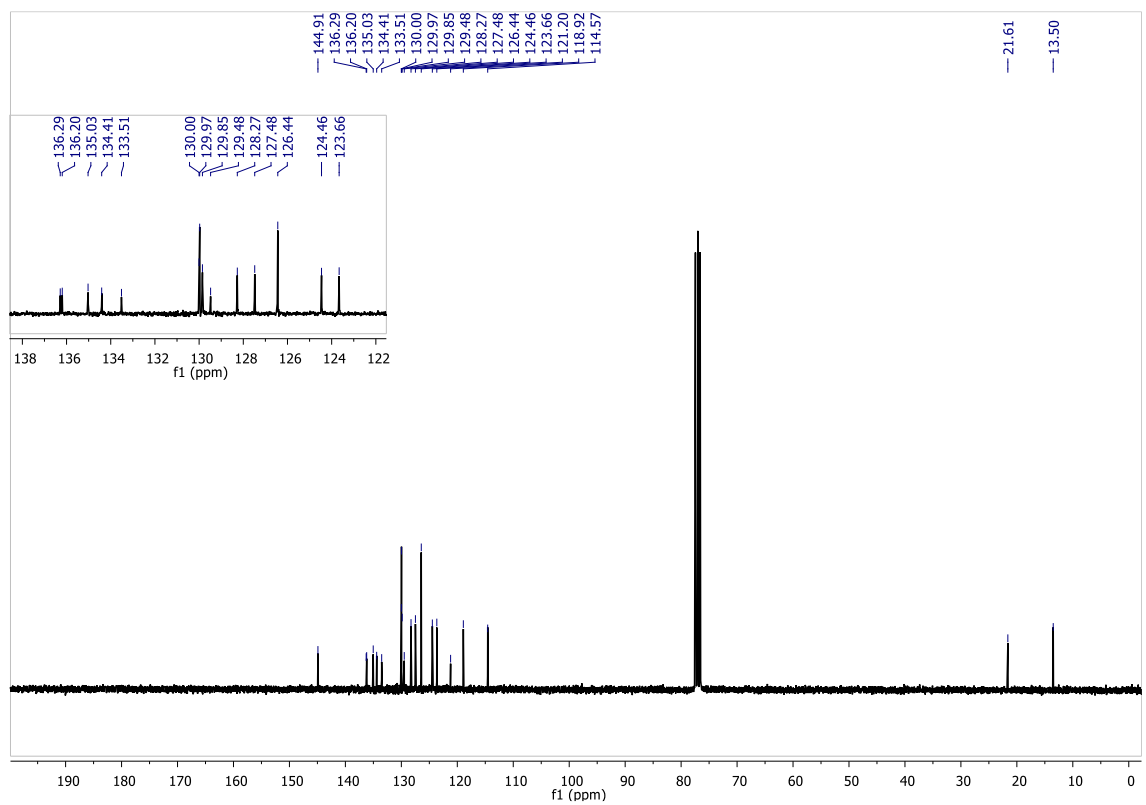
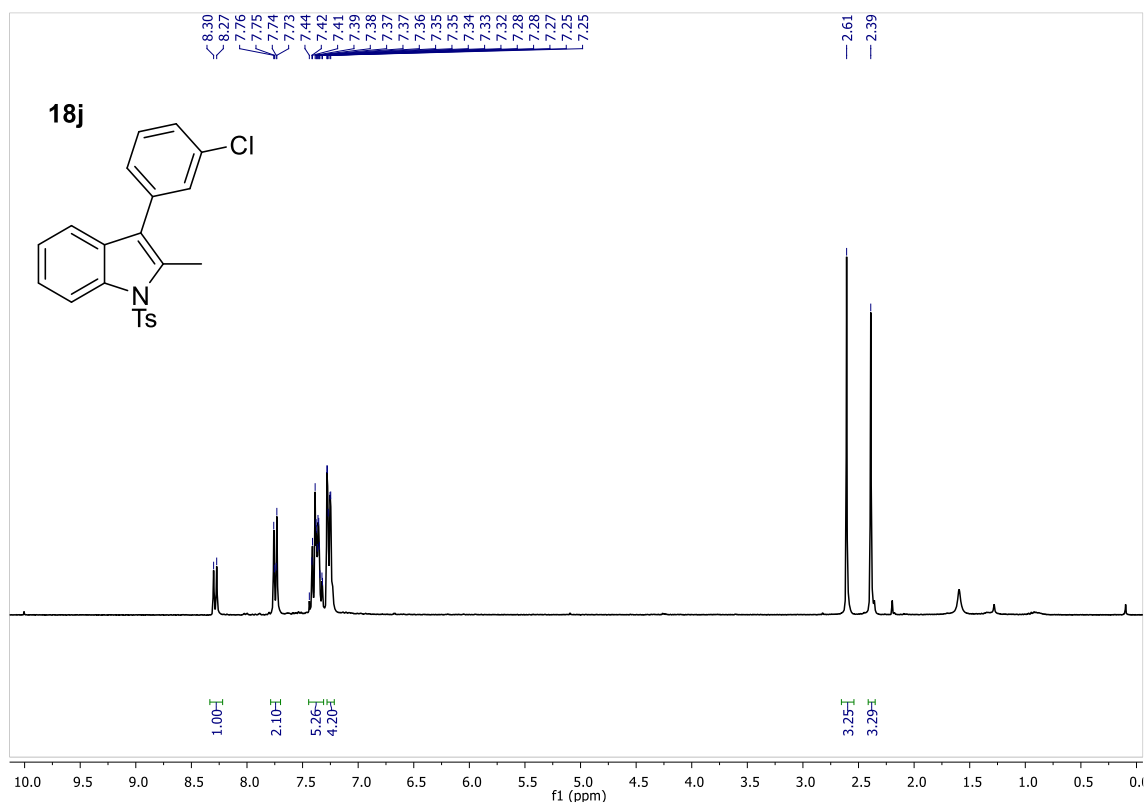
4-(2-Methyl-1-tosyl-1H-indol-3-yl)benzonitrile **18h**



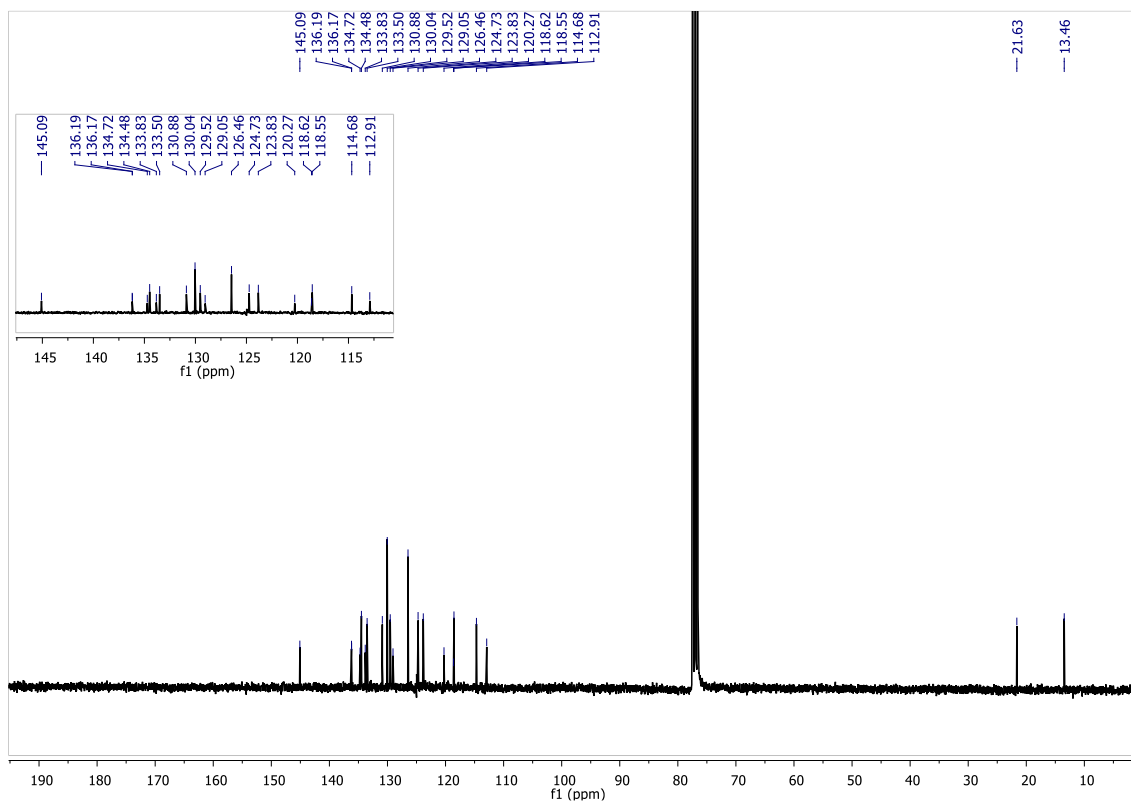
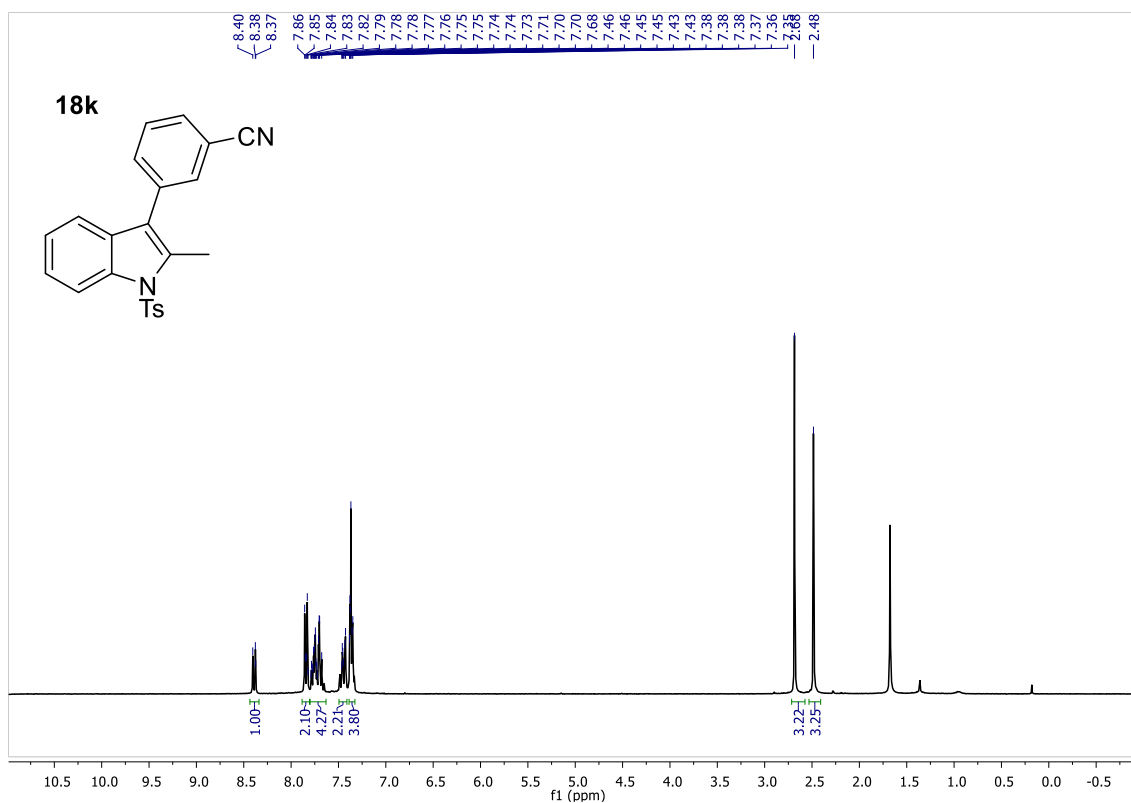
2-Methyl-3-(naphthalen-2-yl)-1-tosyl-1H-indole **18i**



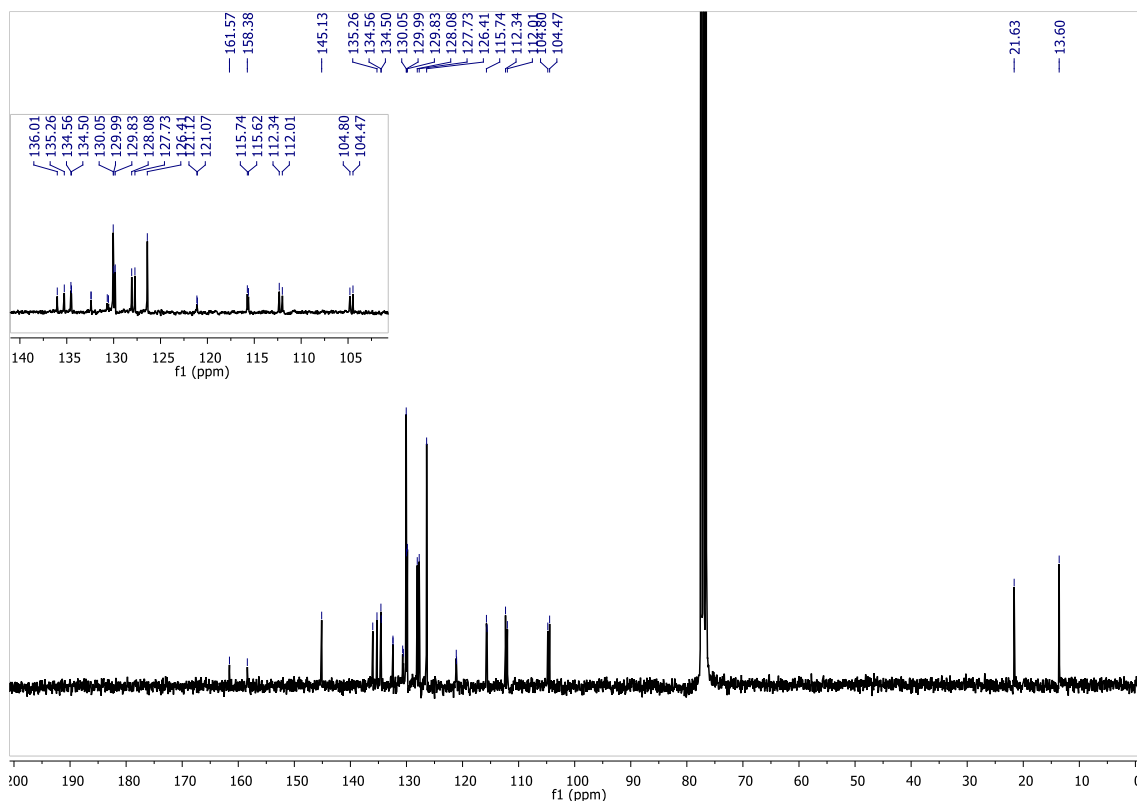
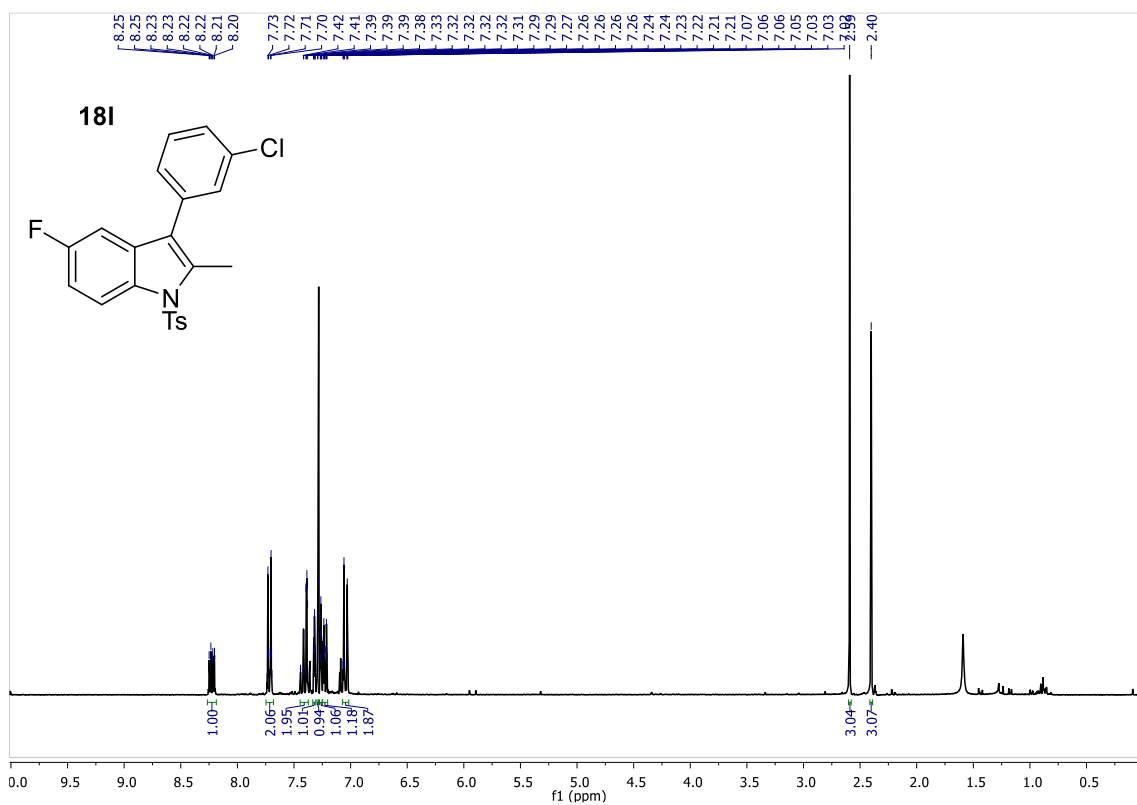
3-(3-Chlorophenyl)-2-methyl-1-tosyl-1H-indole **18j**

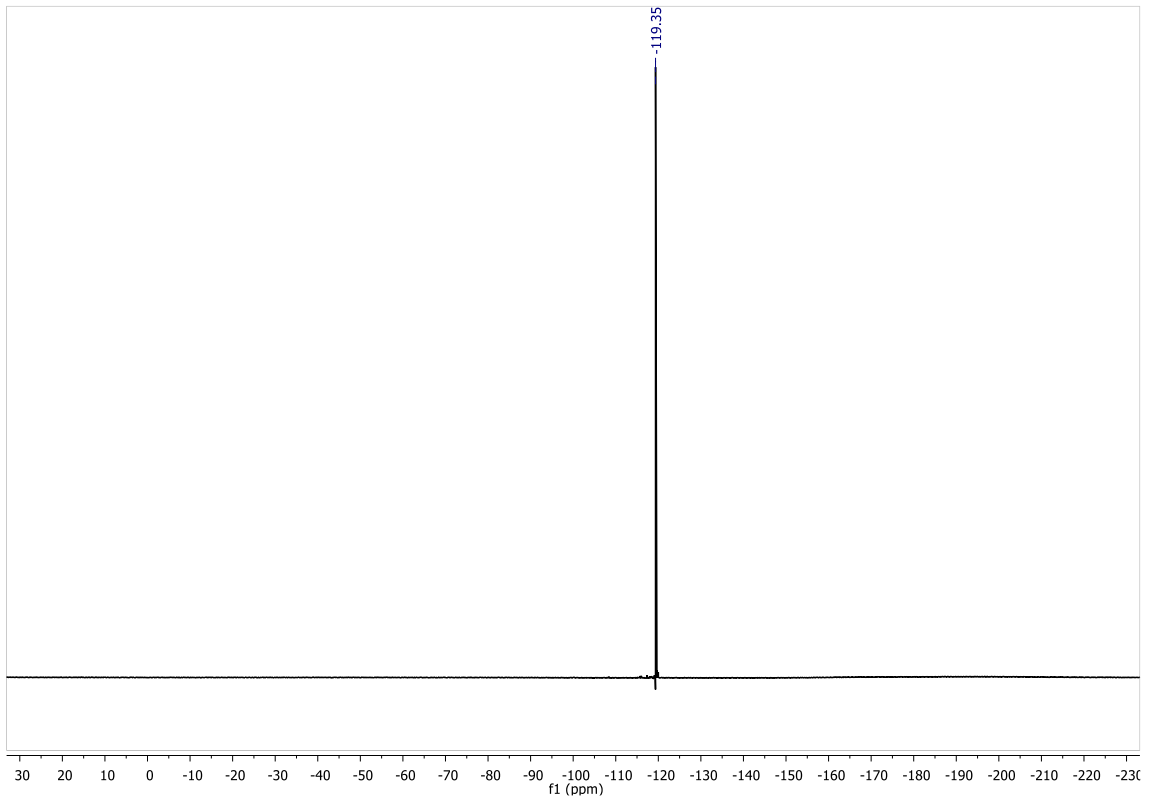


3-(2-Methyl-1-tosyl-1H-indol-3-yl)benzonitrile **18k**

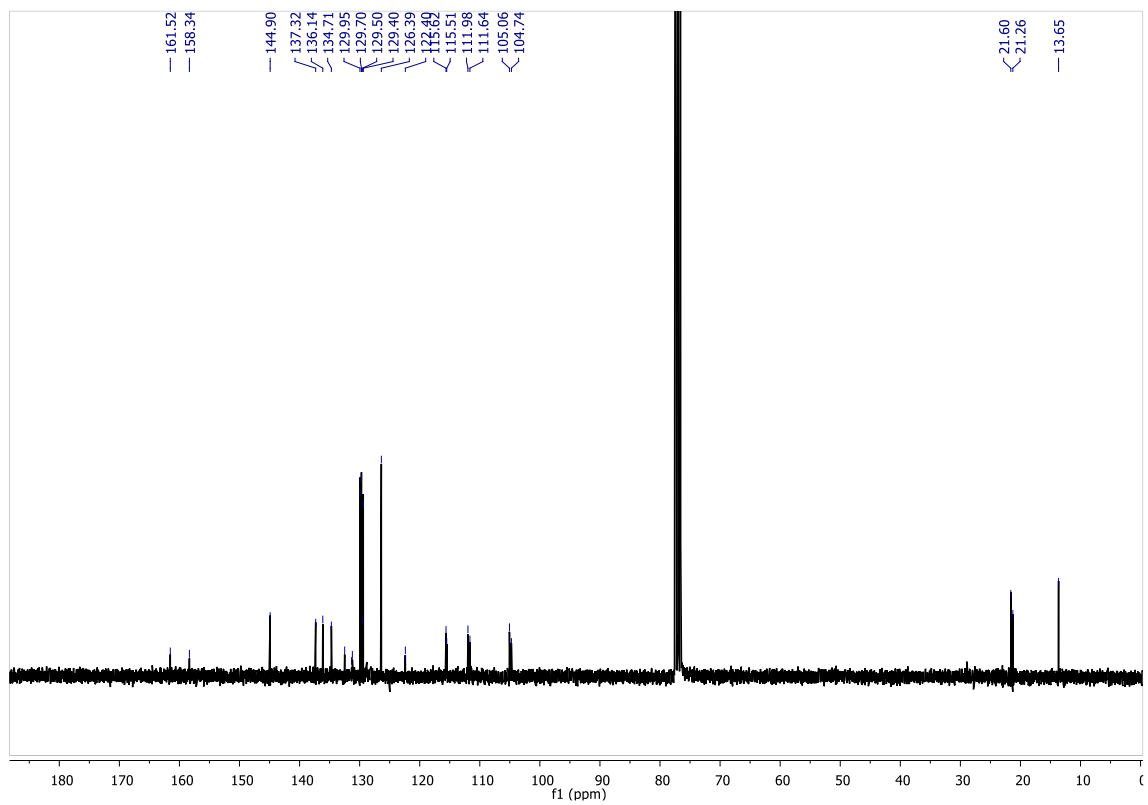
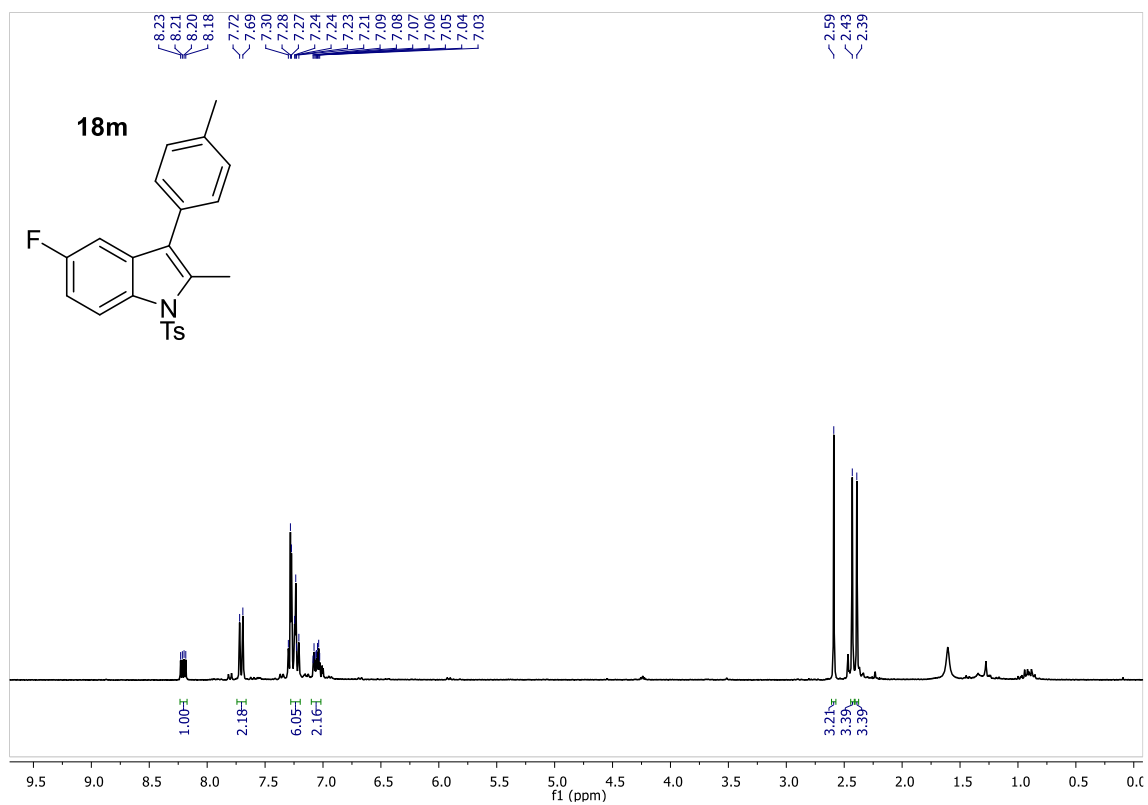


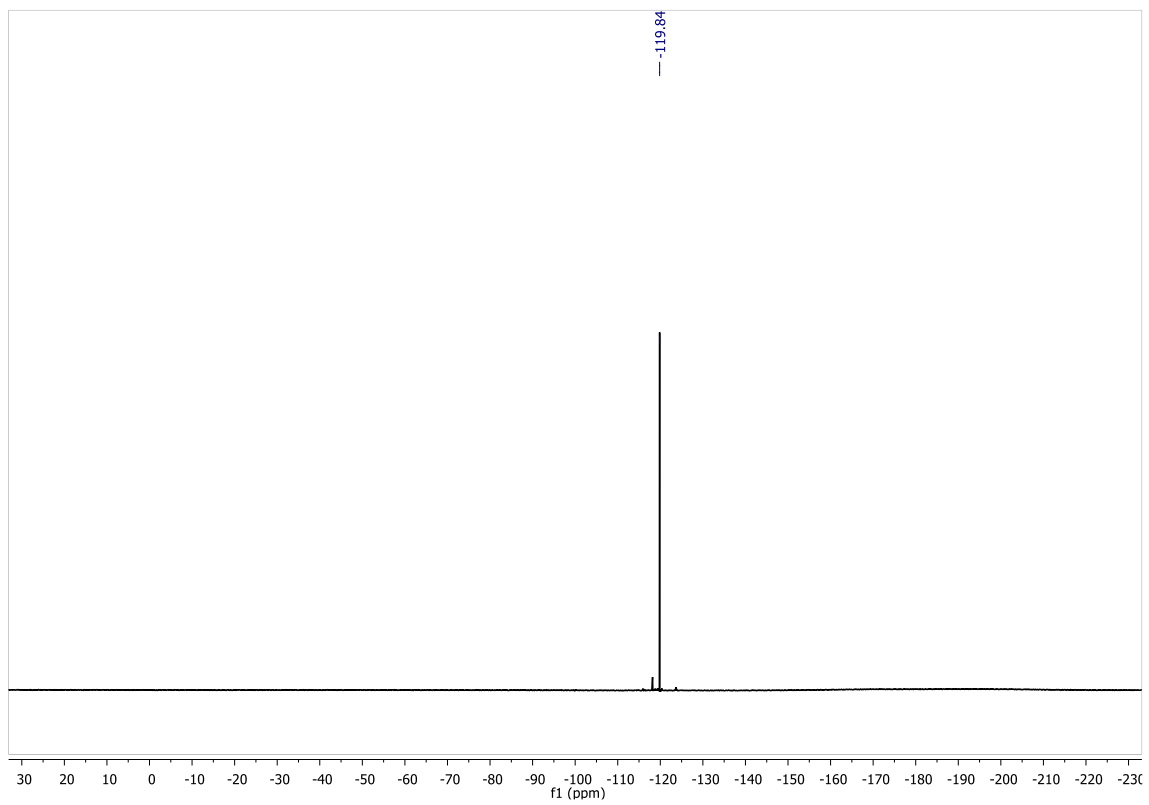
3-(3-Chlorophenyl)-5-fluoro-2-methyl-1-tosyl-1H-indole 18I



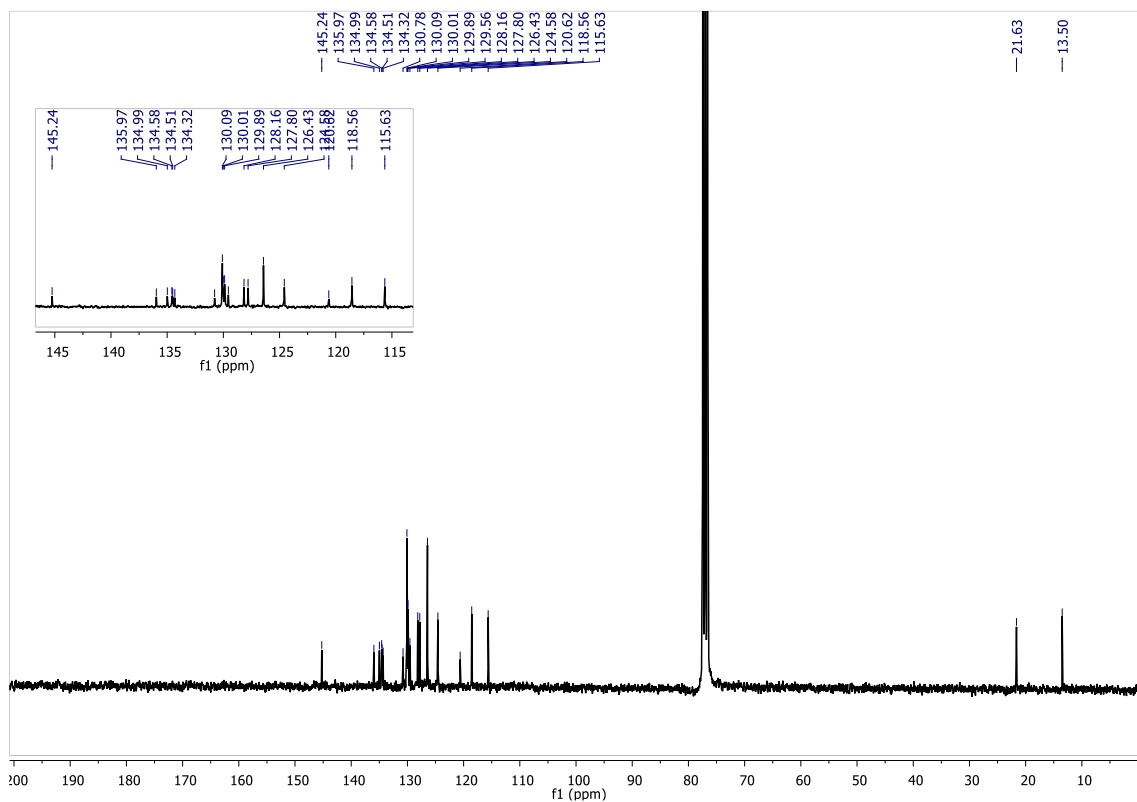
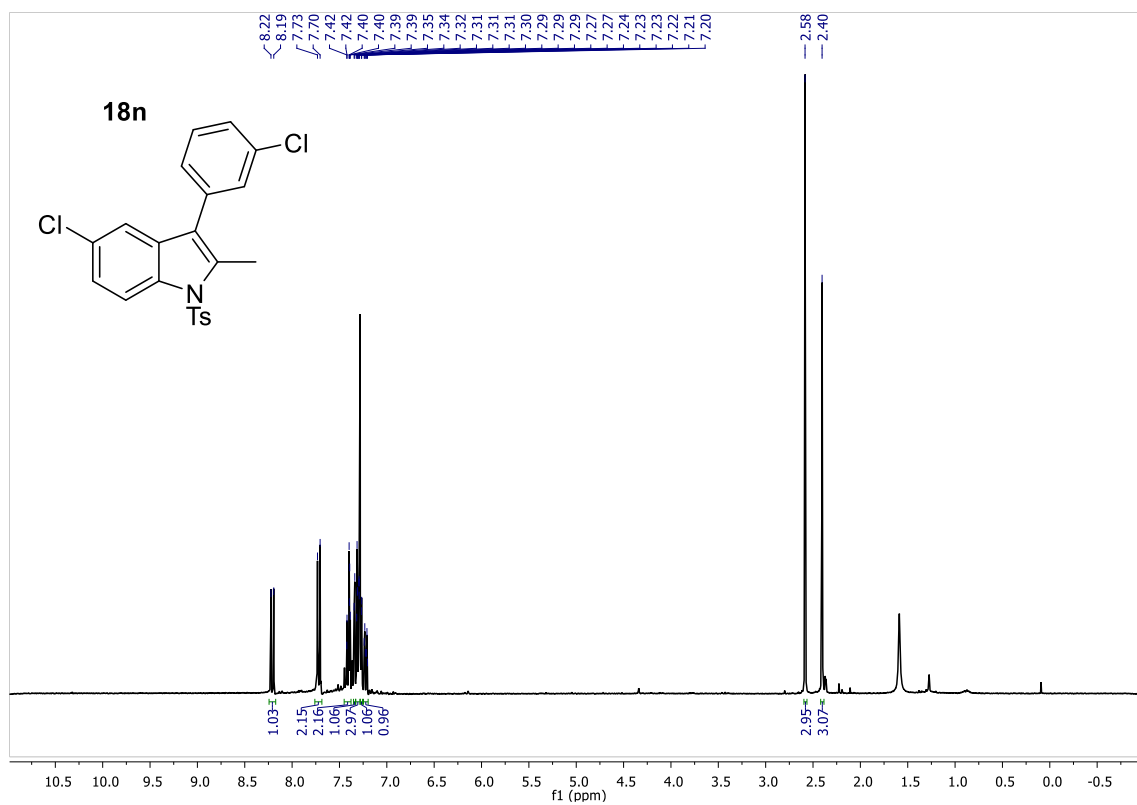


5-Fluoro-2-methyl-3-(*p*-tolyl)-1-tosyl-1*H*-indole **18m**

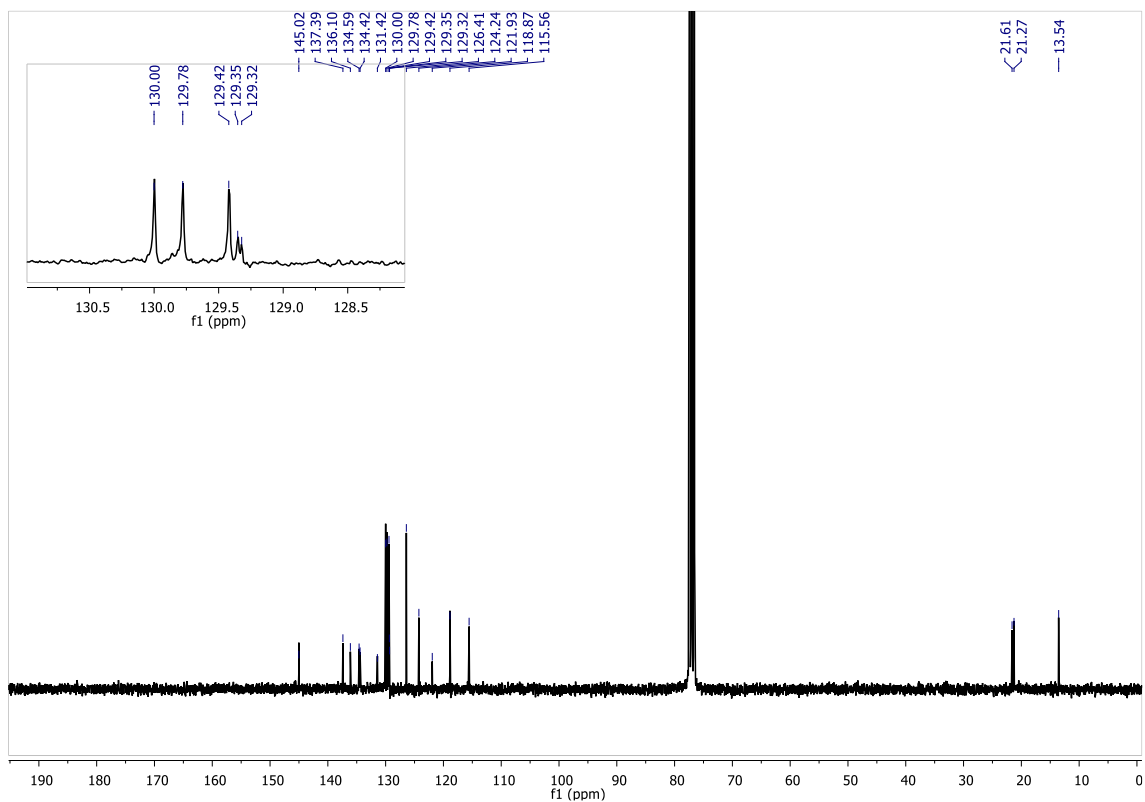
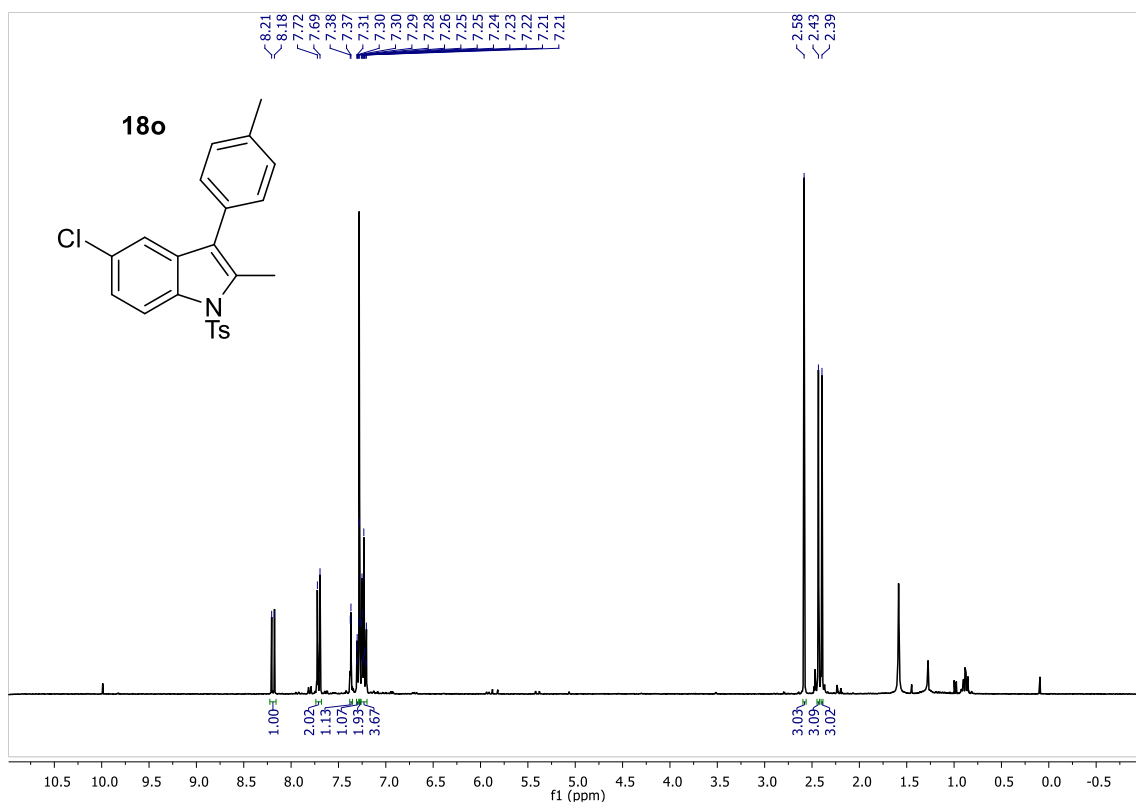




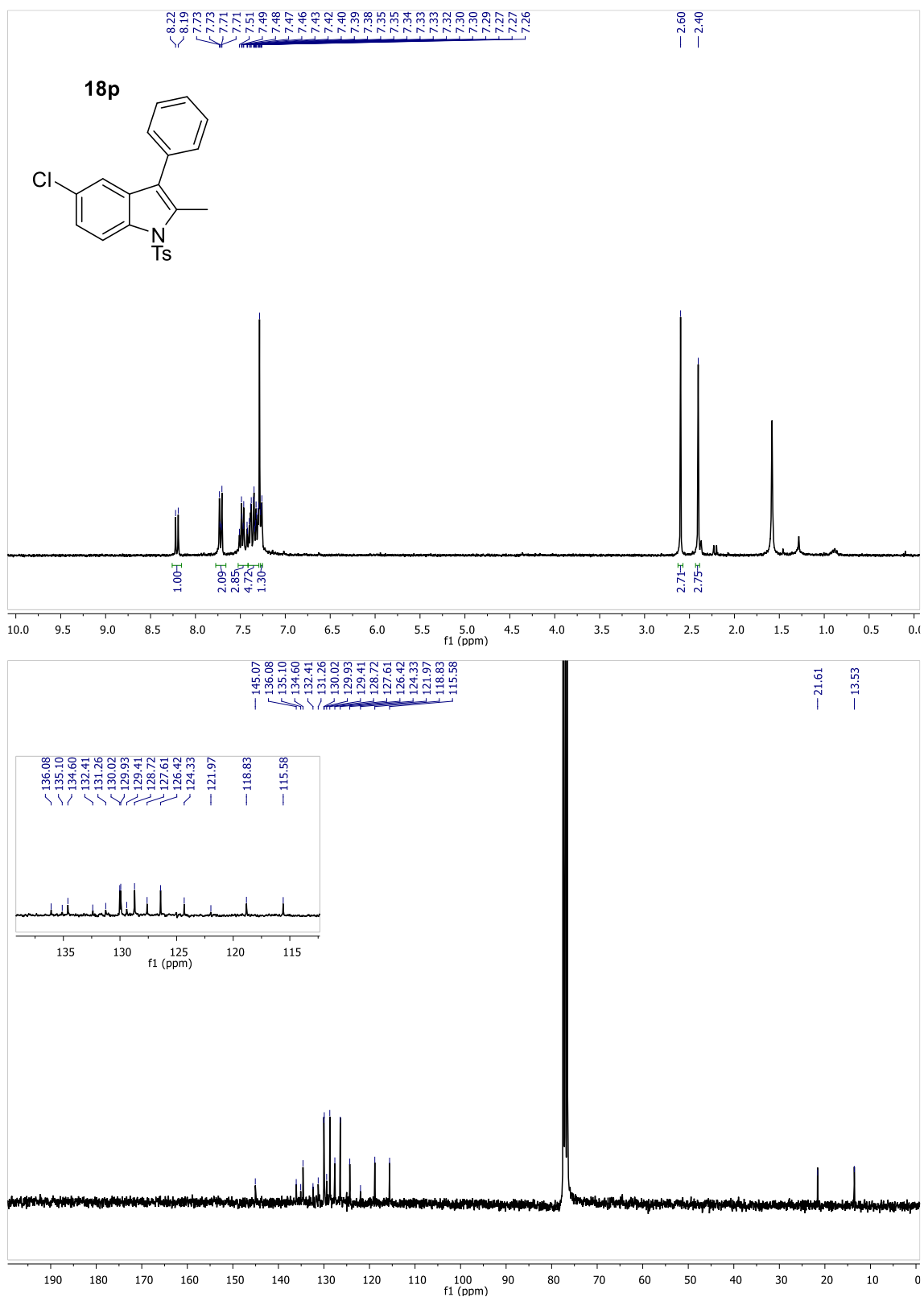
5-Chloro-3-(3-chlorophenyl)-2-methyl-1-tosyl-1H-indole **18n**



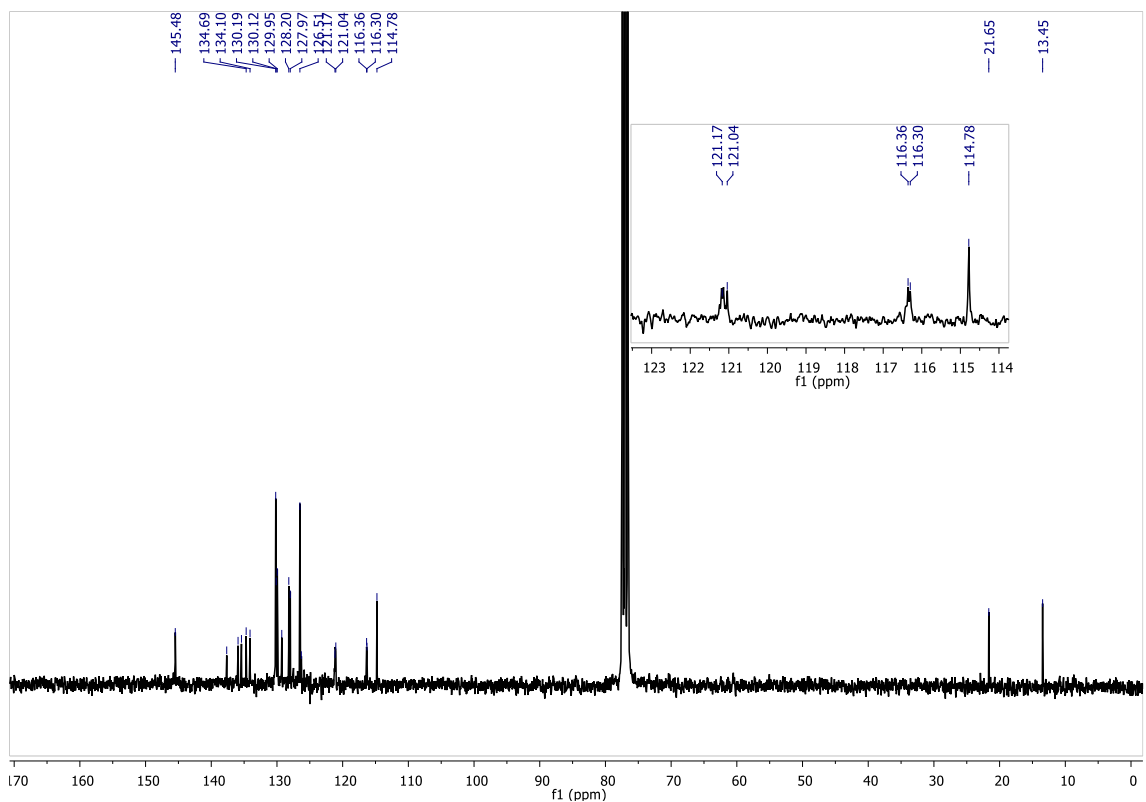
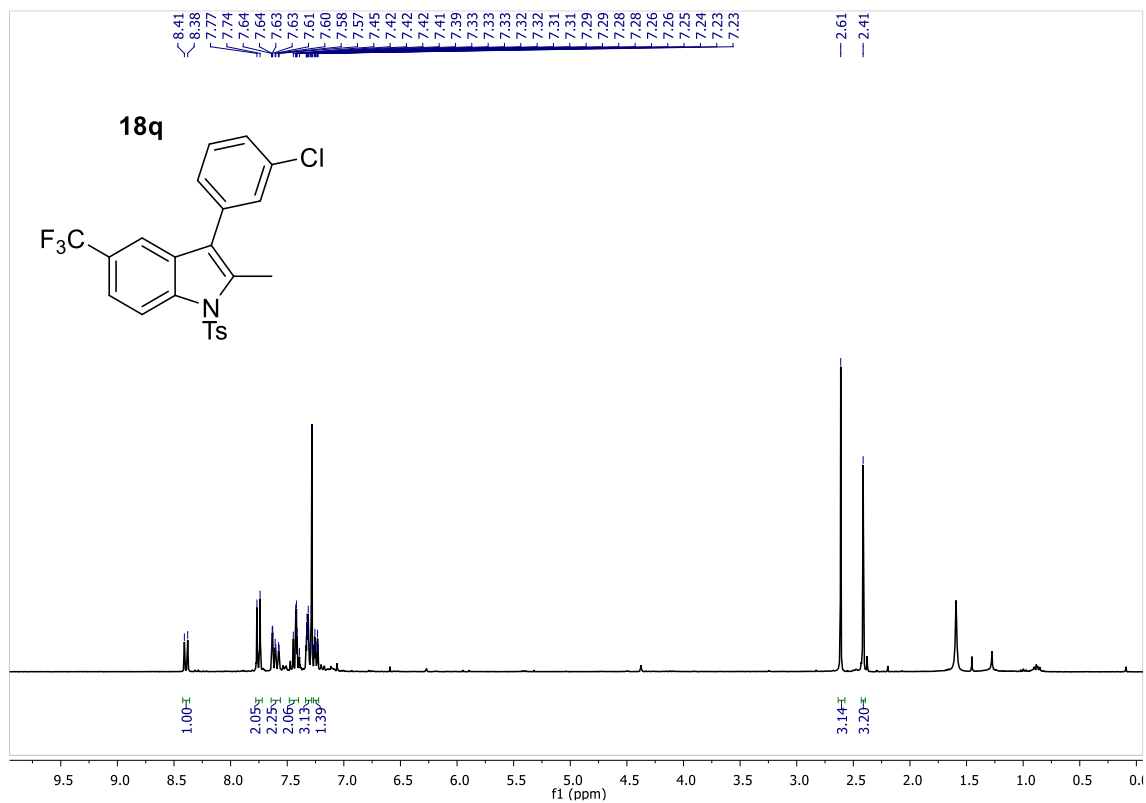
5-Chloro-2-methyl-3-(*p*-tolyl)-1-tosyl-1*H*-indole **18o**



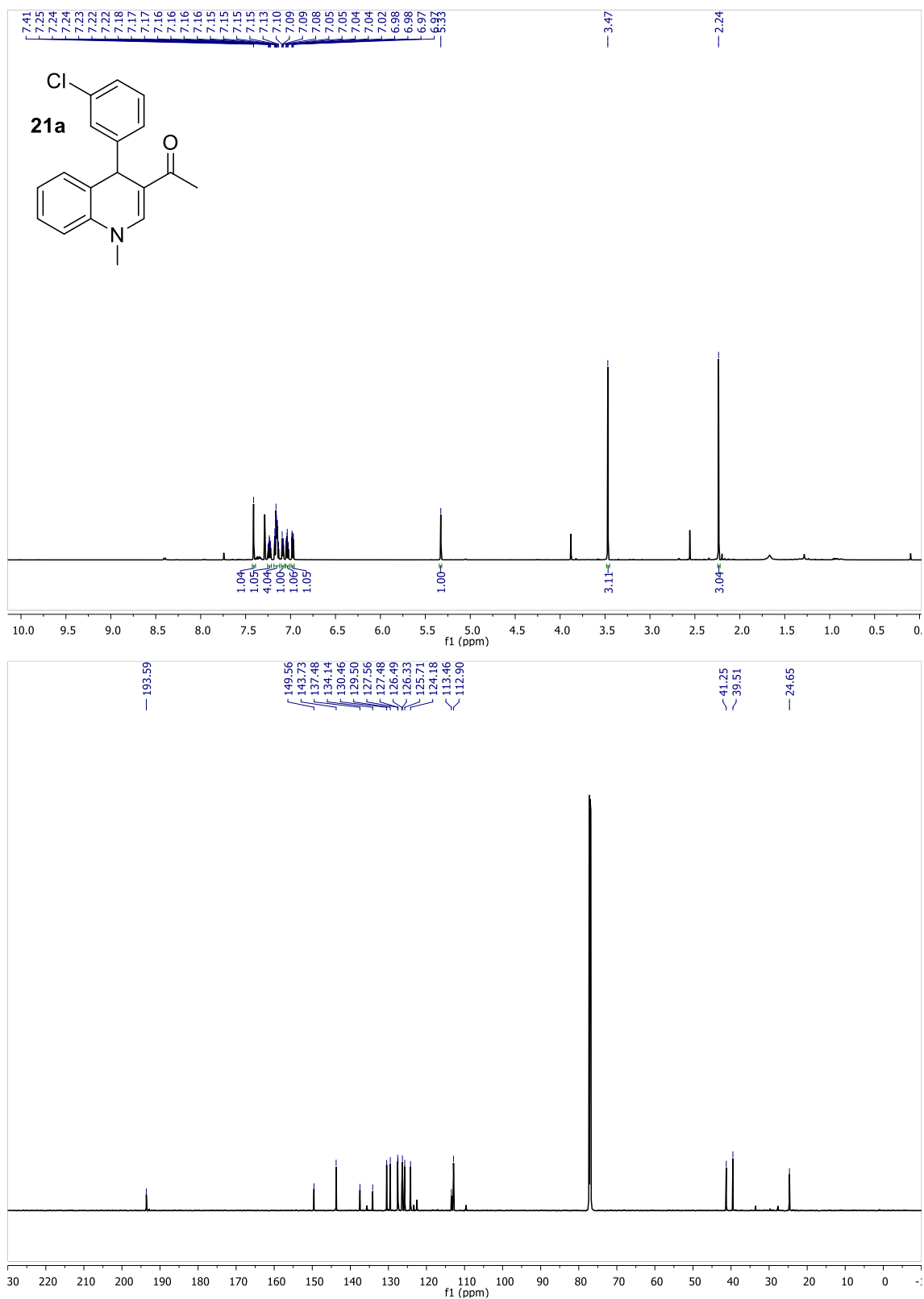
5-Chloro-2-methyl-3-phenyl-1-tosyl-1H-indole **18p**



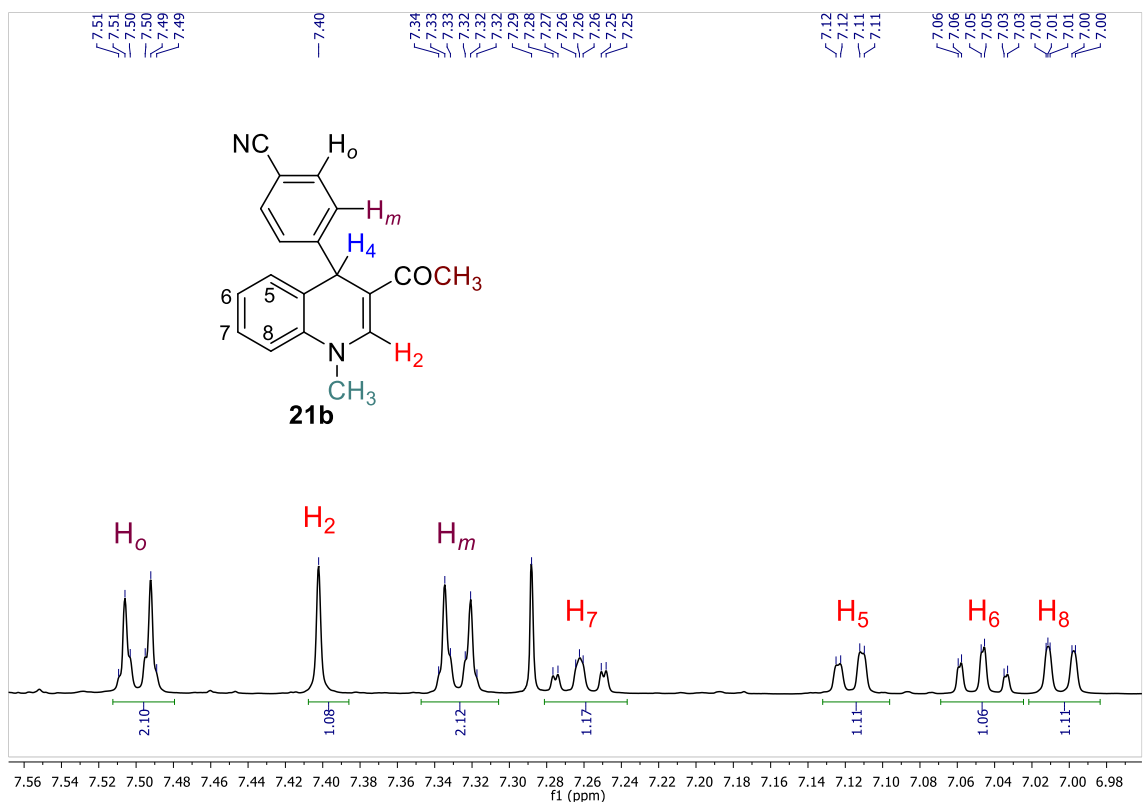
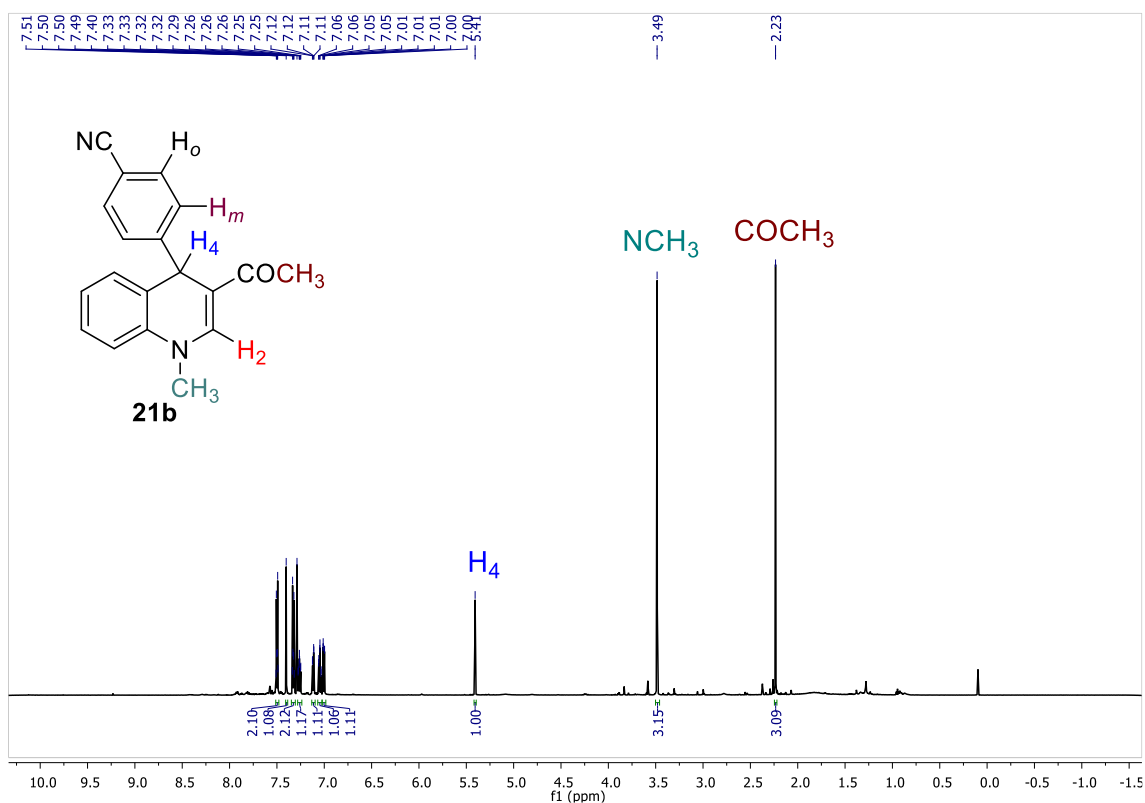
3-(3-Chlorophenyl)-2-methyl-1-tosyl-5-(trifluoromethyl)-1H-indole 18q

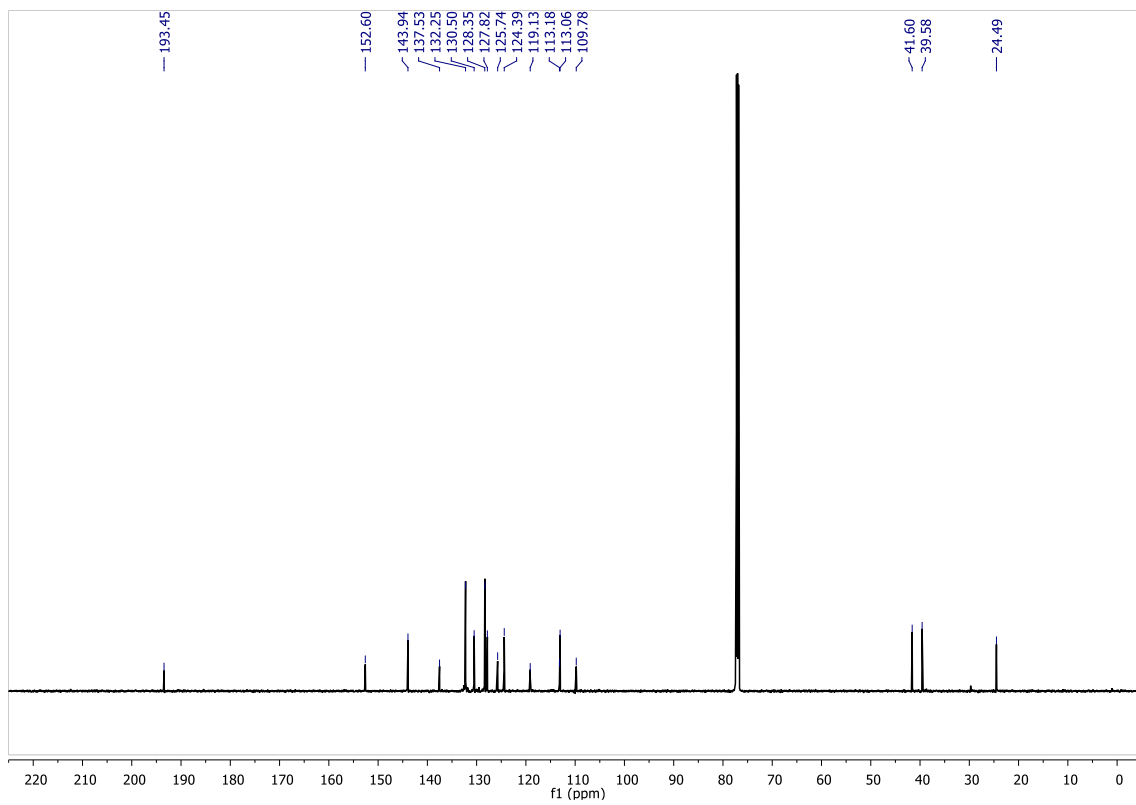


1-(4-(3-Chlorophenyl)-1-methyl-1,4-dihydroquinolin-3-yl)ethan-1-one 21a

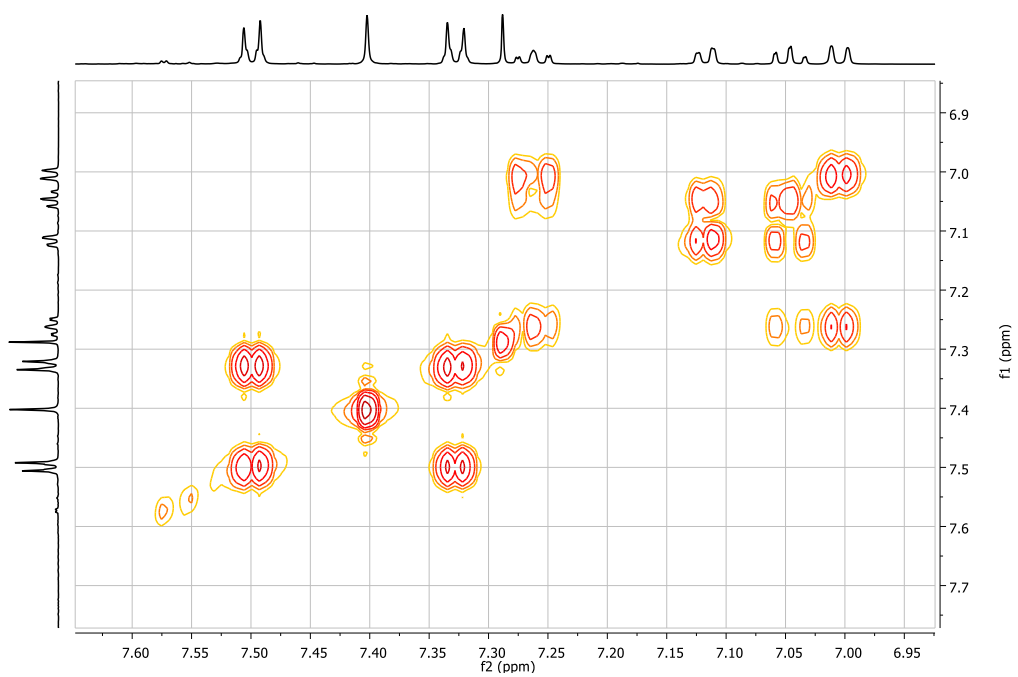
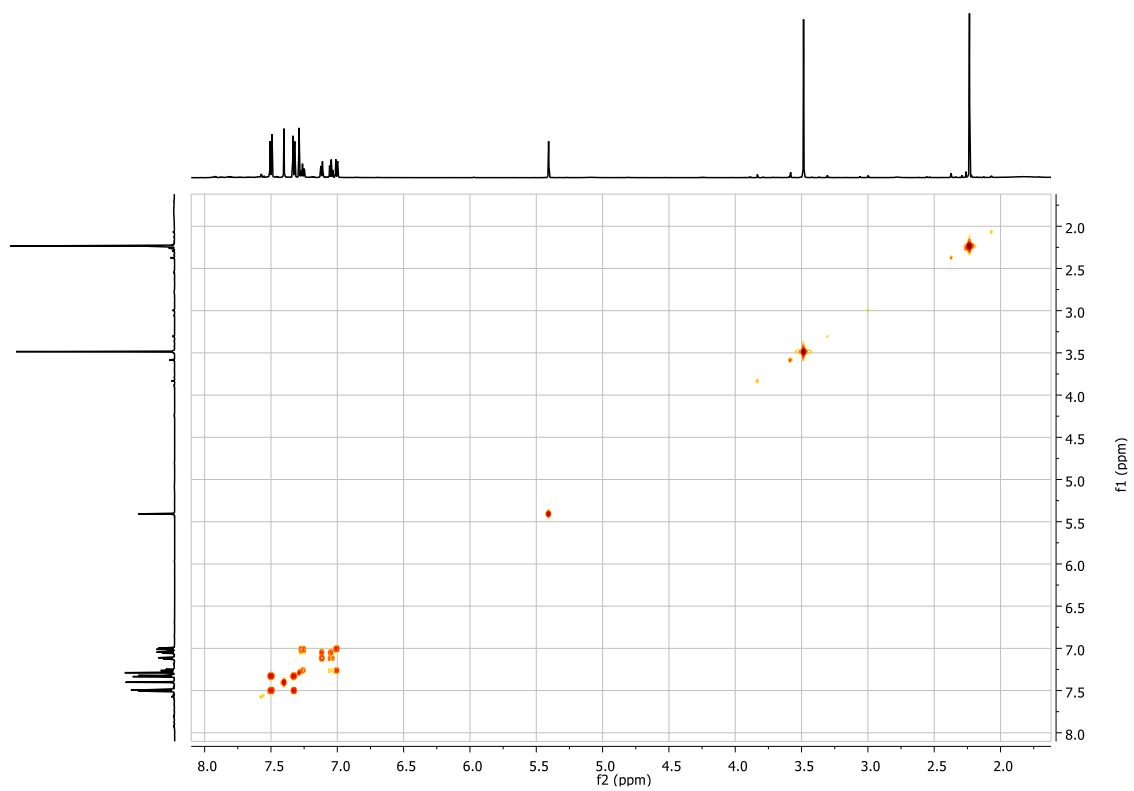


4-(3-Acetyl-1-methyl-1,4-dihydroquinolin-4-yl)benzonitrile **21b**

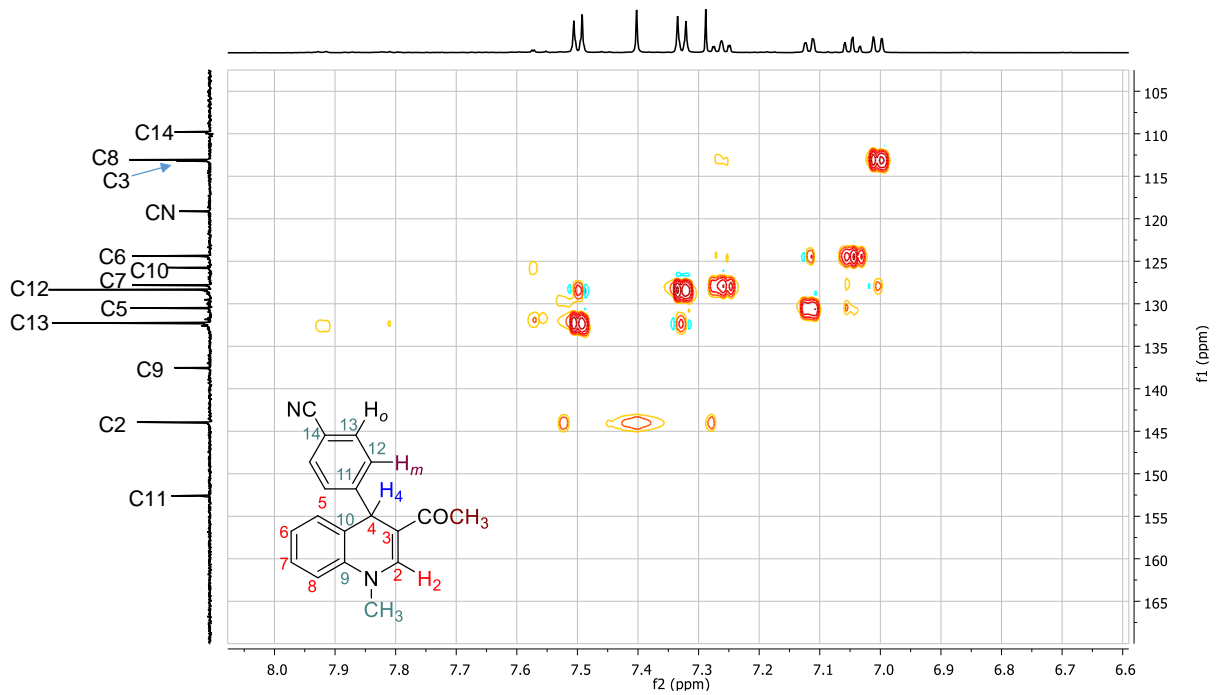
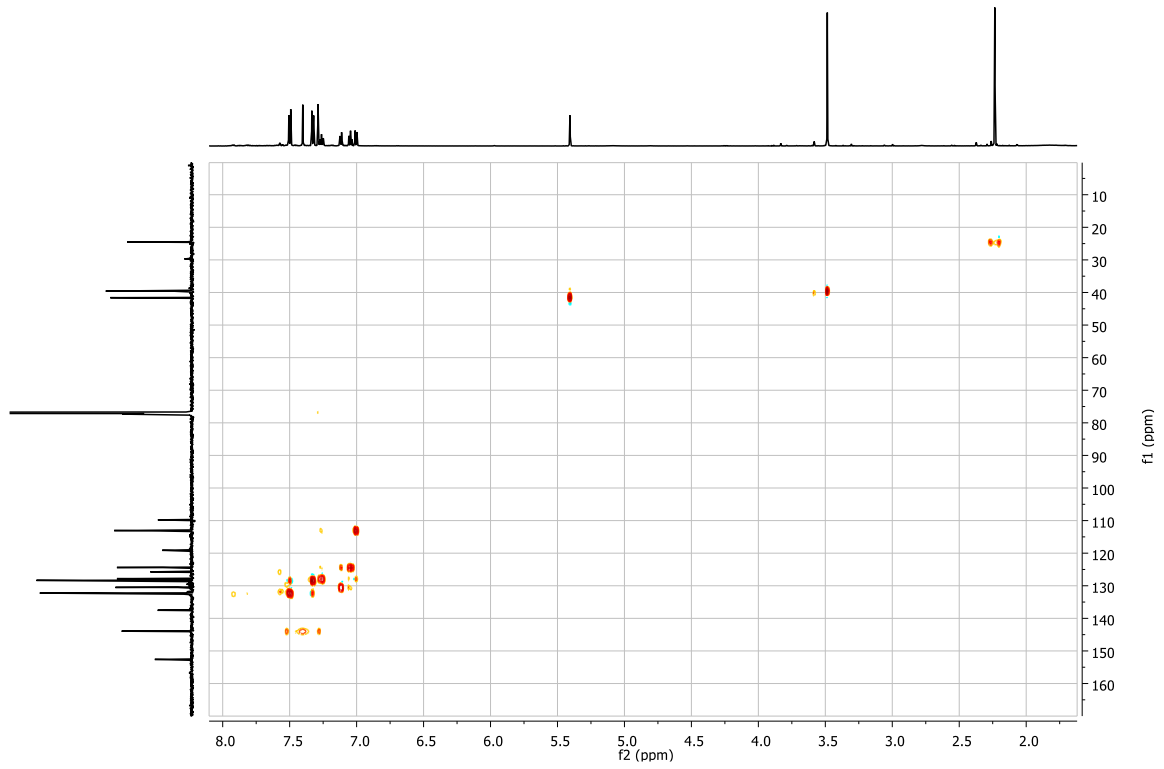




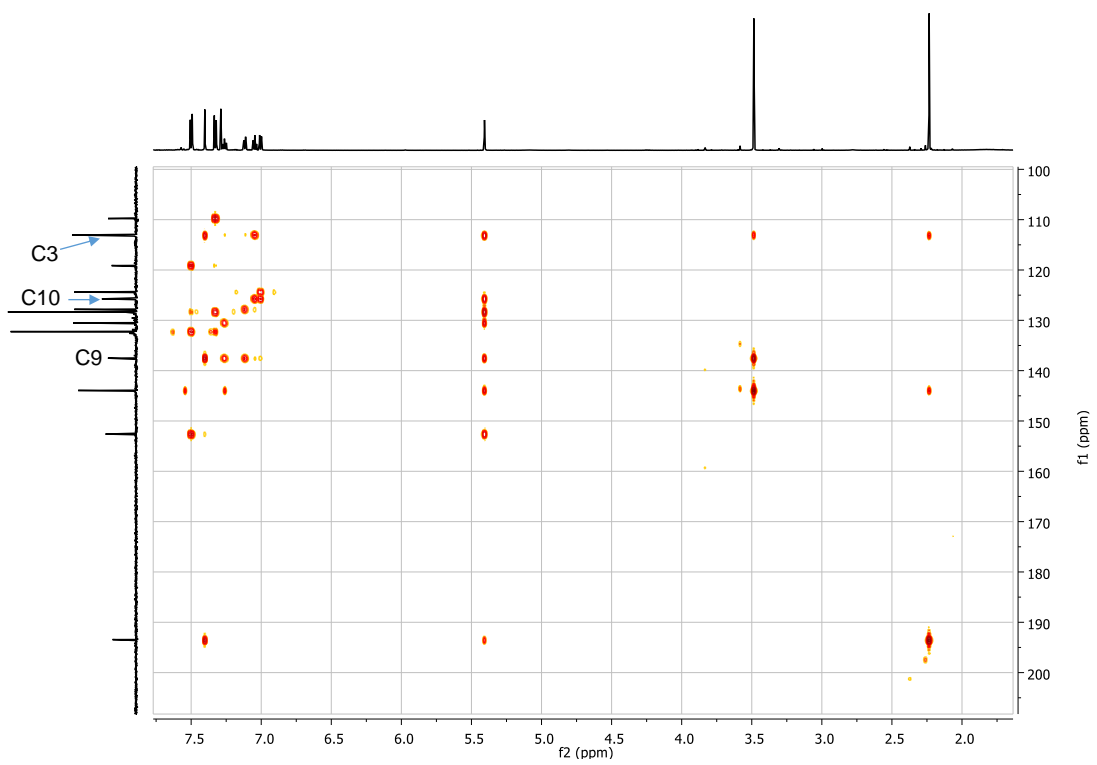
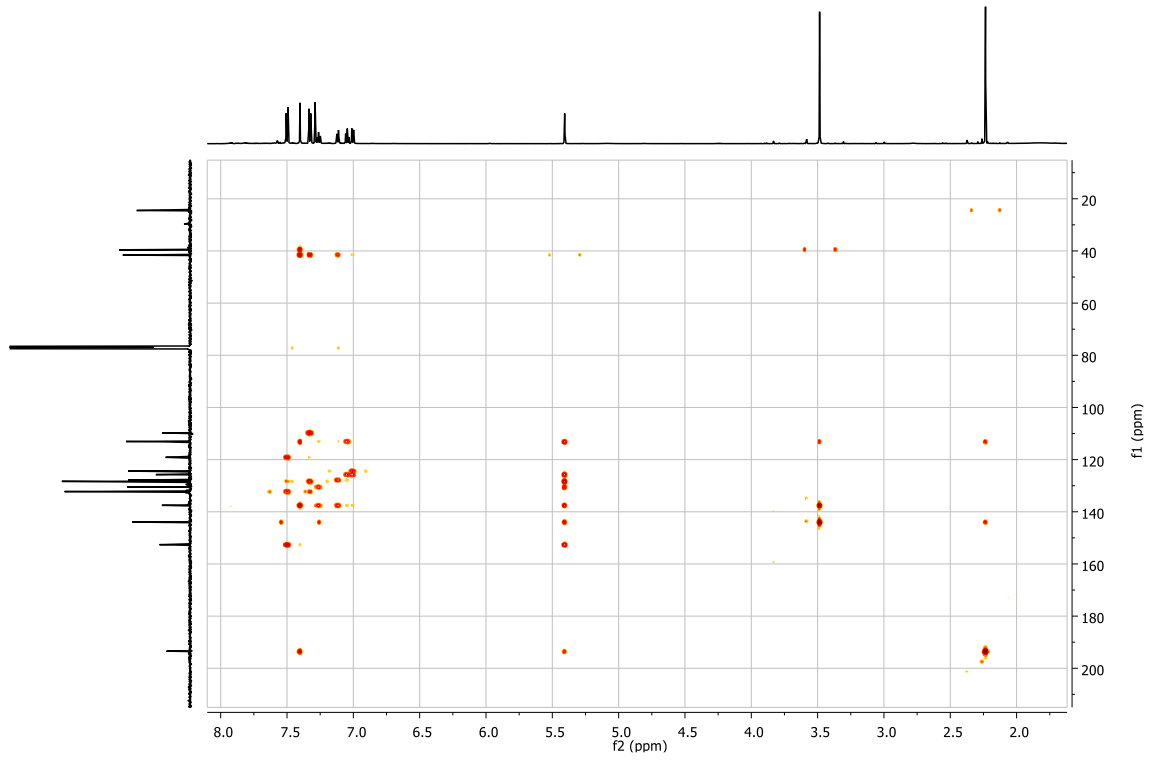
COSY



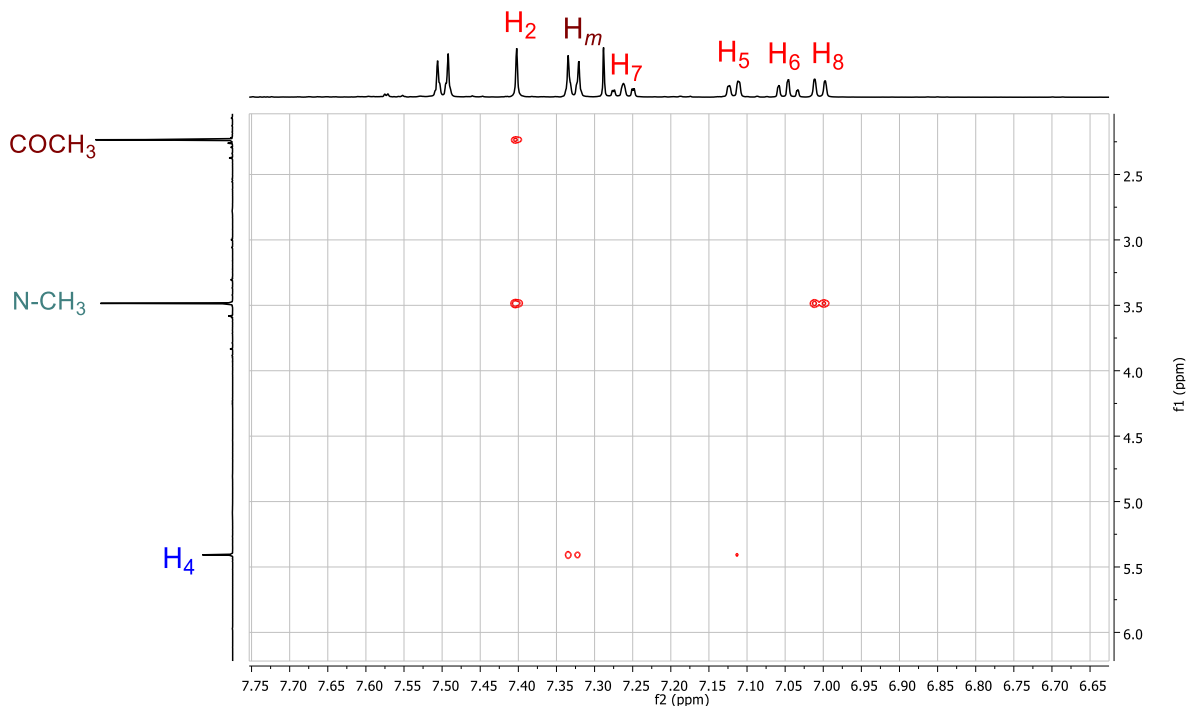
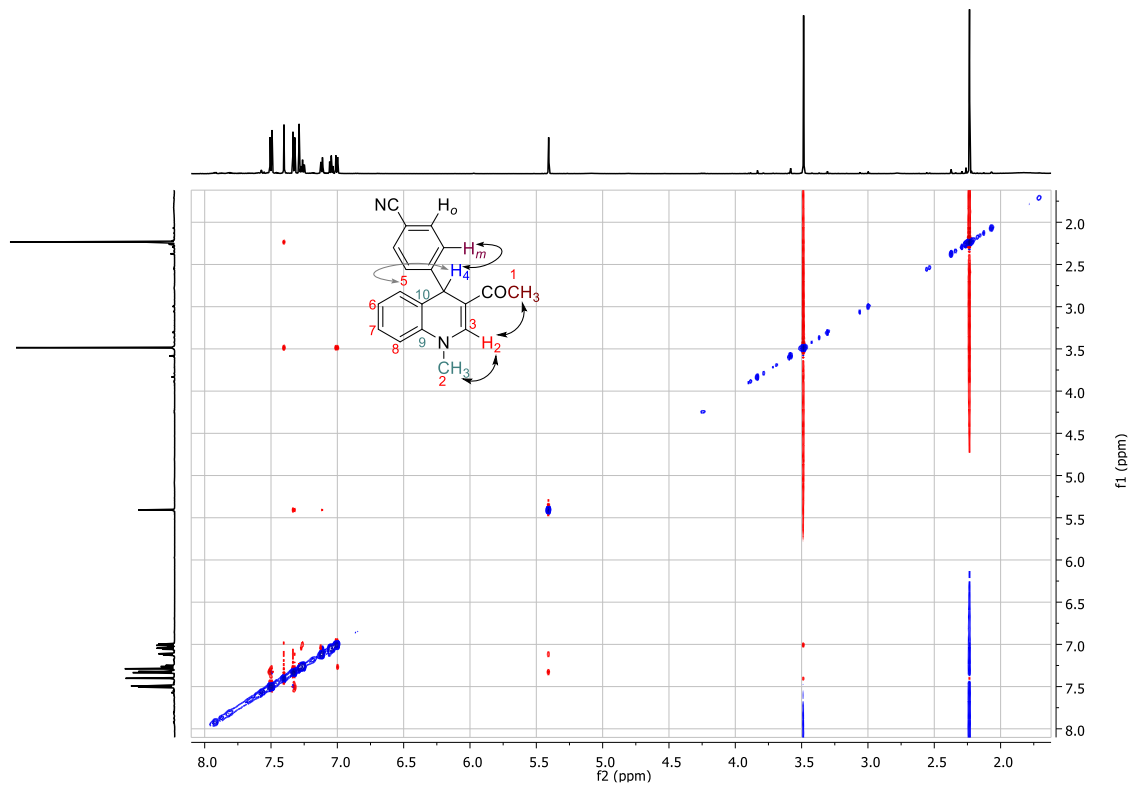
HSQC



HMBC



NOESY

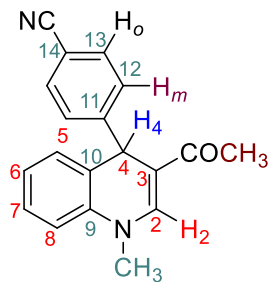


The structure proposed is supported by the 2D NMR experiments presented above.

Some characteristic signals to establish the connectivity:

HMBC:

Cross-peaks between H4 (5.41 ppm) and C3 (113.18 ppm), C10 (125.7 ppm), C9 (134.7 ppm), C2 (143.9 ppm) and the carbonyl carbon (109.3 ppm).

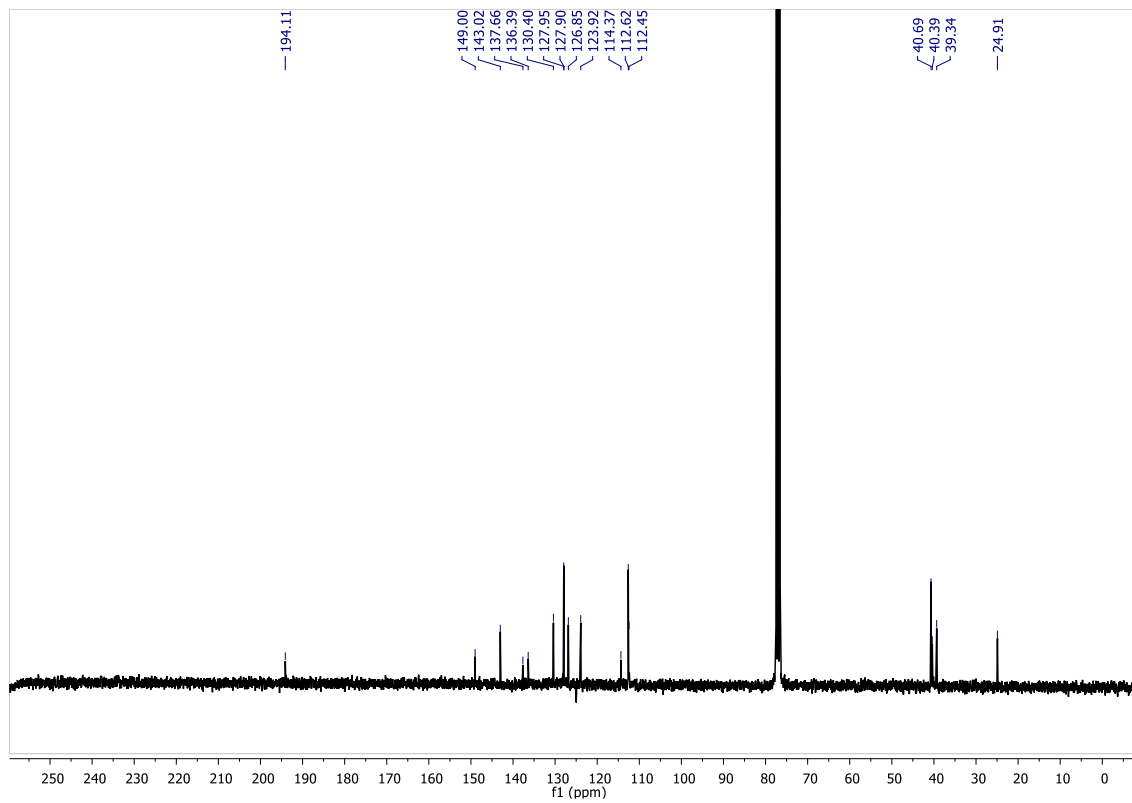
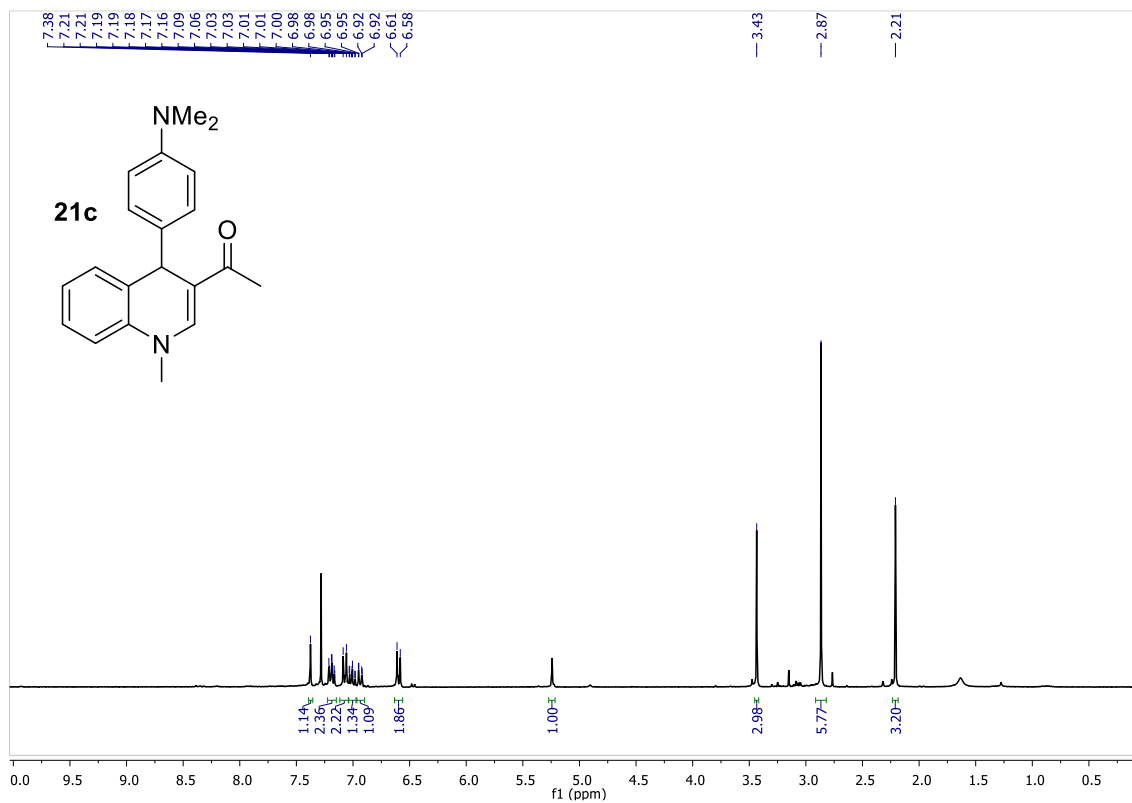


NOESY:

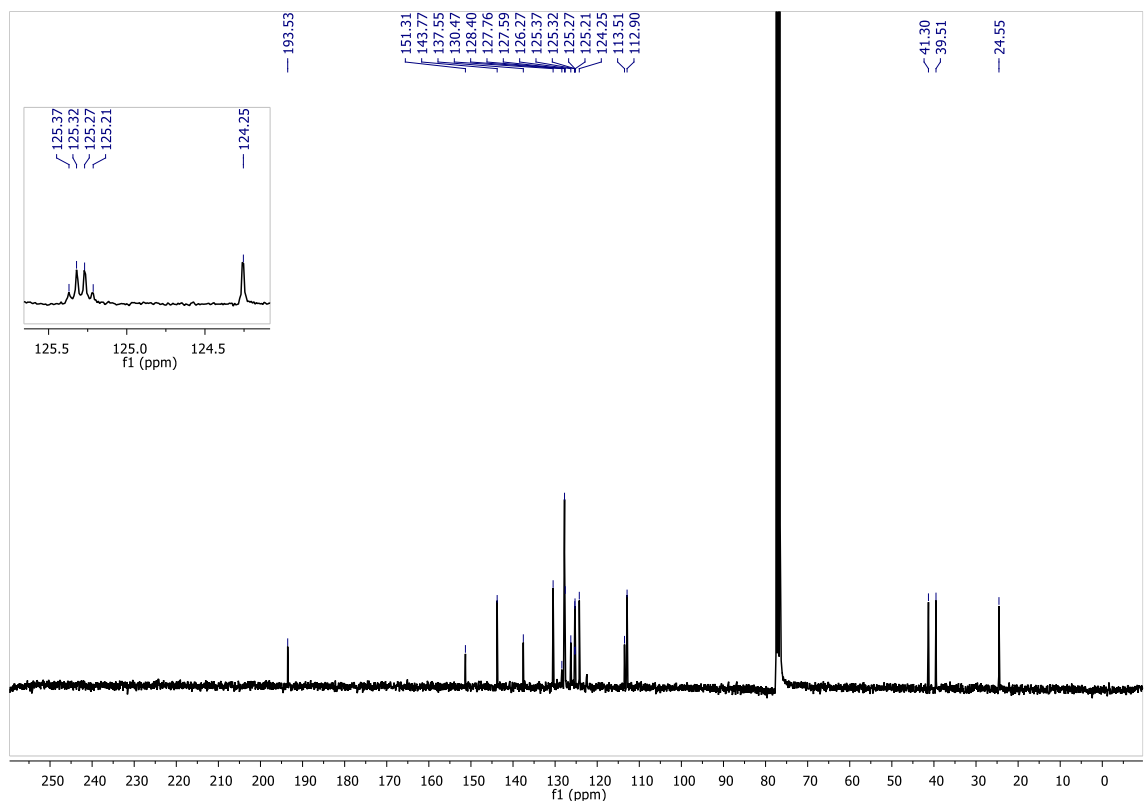
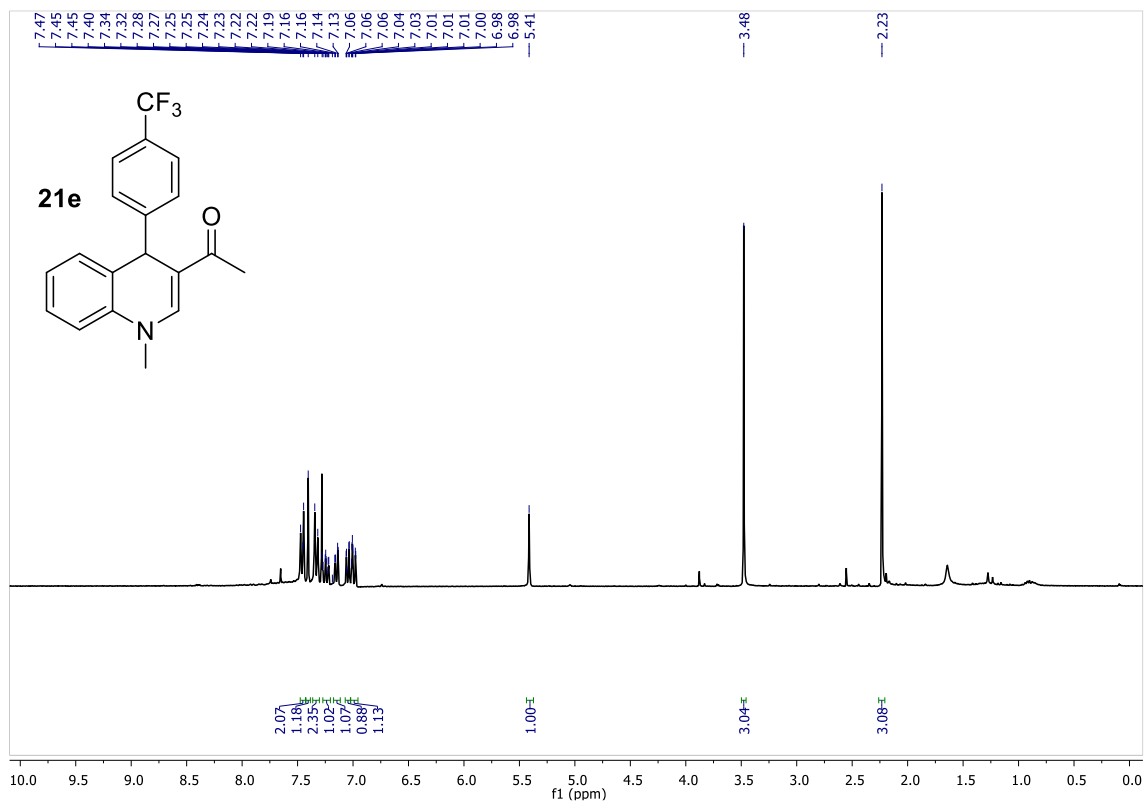
Cross-peaks between H4 (5.41 ppm) and H_m (7.33 ppm) and H₅ (7.11 ppm) respectively.

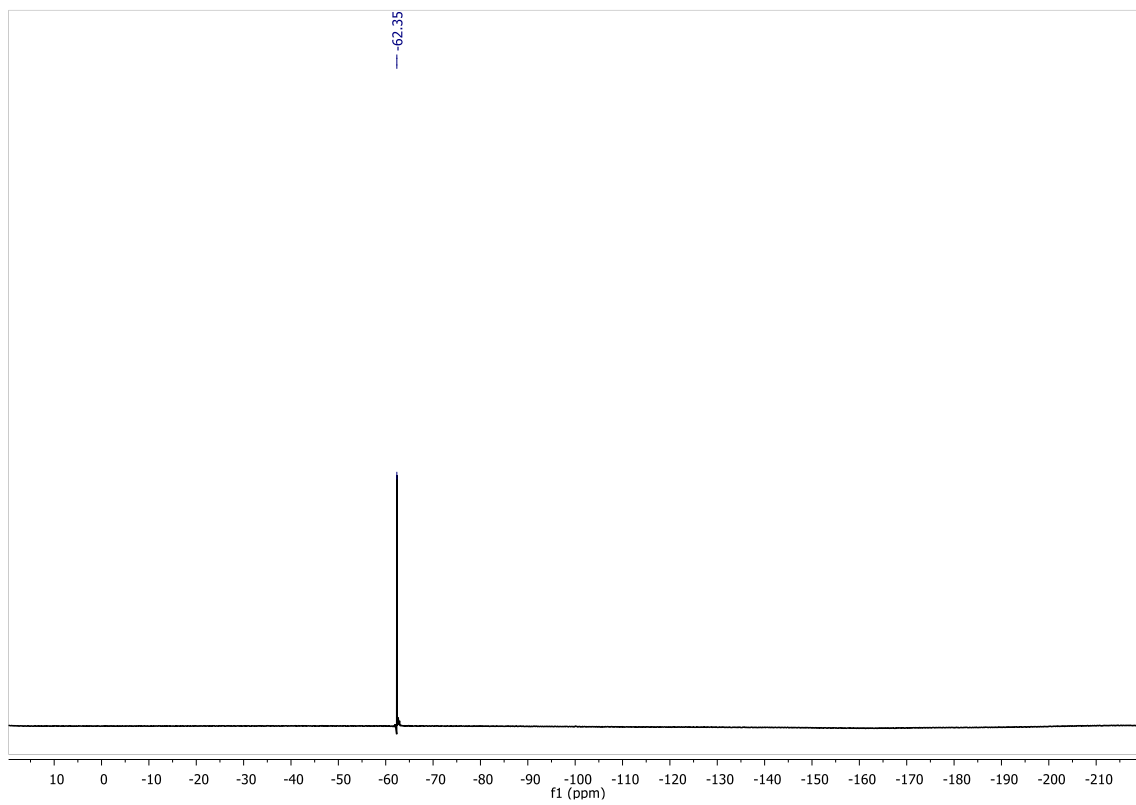
Cross-peaks between H₂ (7.40 ppm) and N-CH₃ (3.49 ppm) and COCH₃ (2.23 ppm) respectively.

1-(4-(4-(Dimethylamino)phenyl)-1-methyl-1,4-dihydroquinolin-3-yl)ethan-1-one 21c

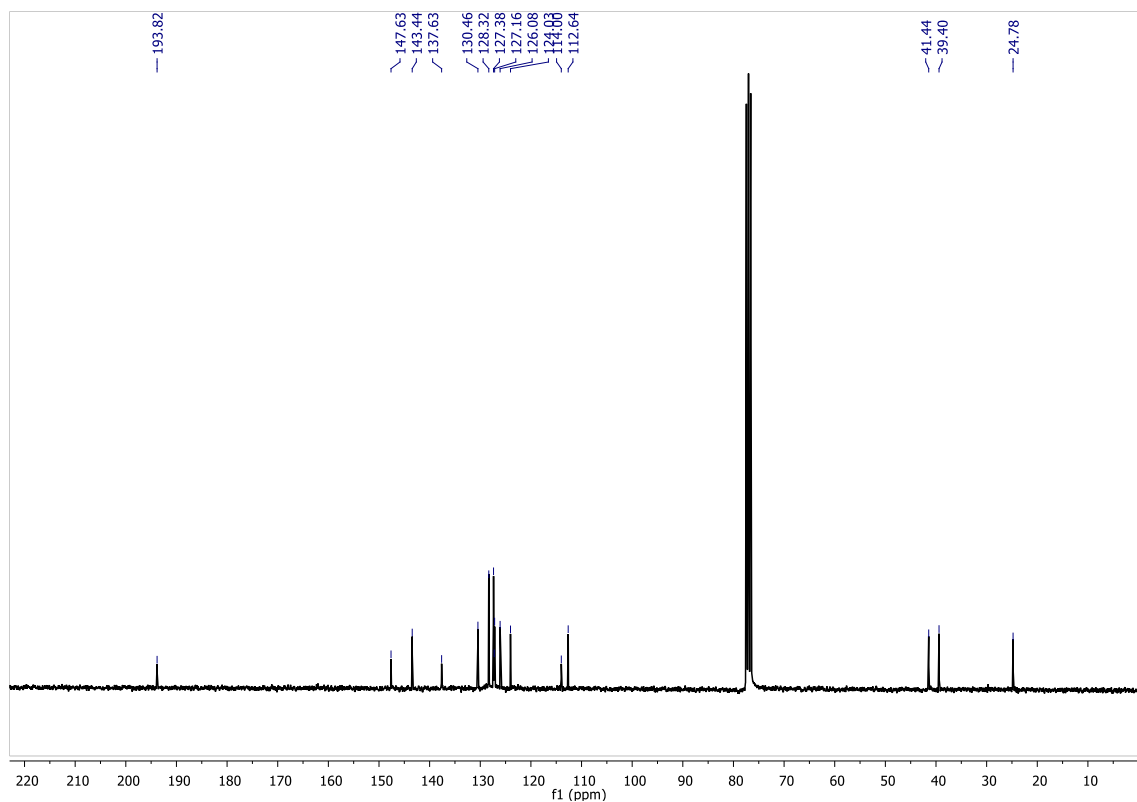
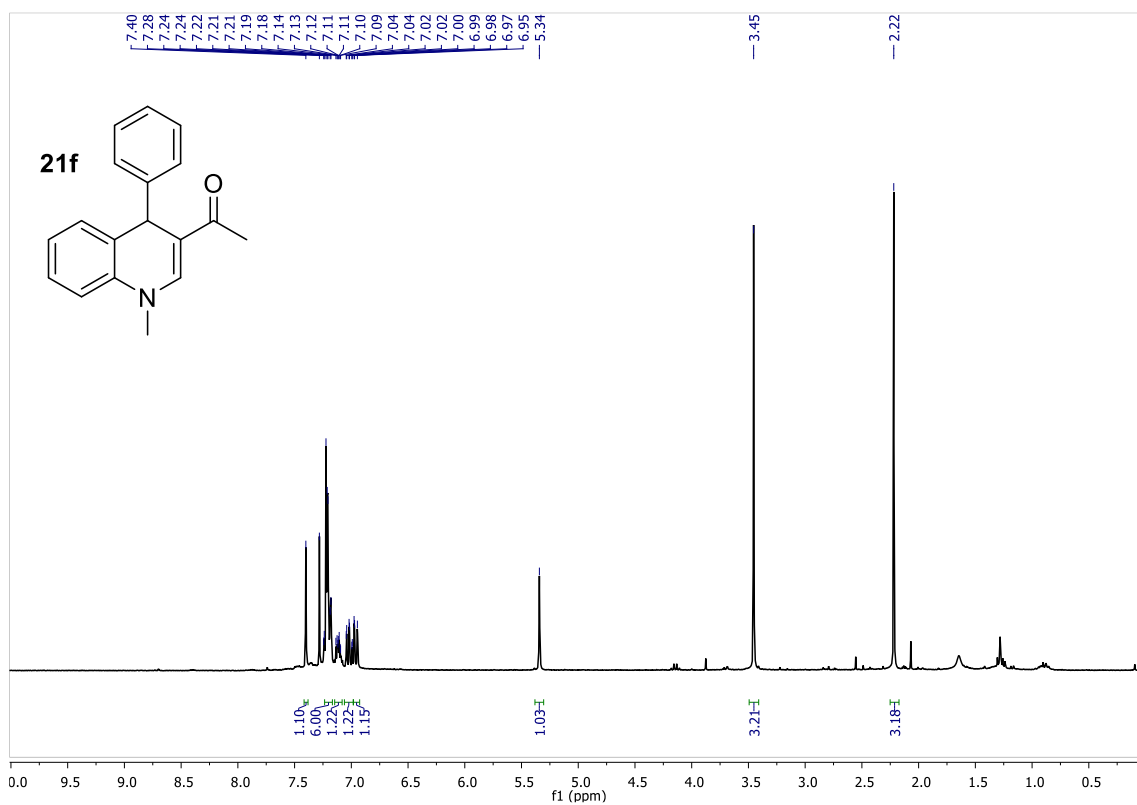


1-(1-Methyl-4-(4-(trifluoromethyl)phenyl)-1,4-dihydroquinolin-3-yl)ethan-1-one **21e**

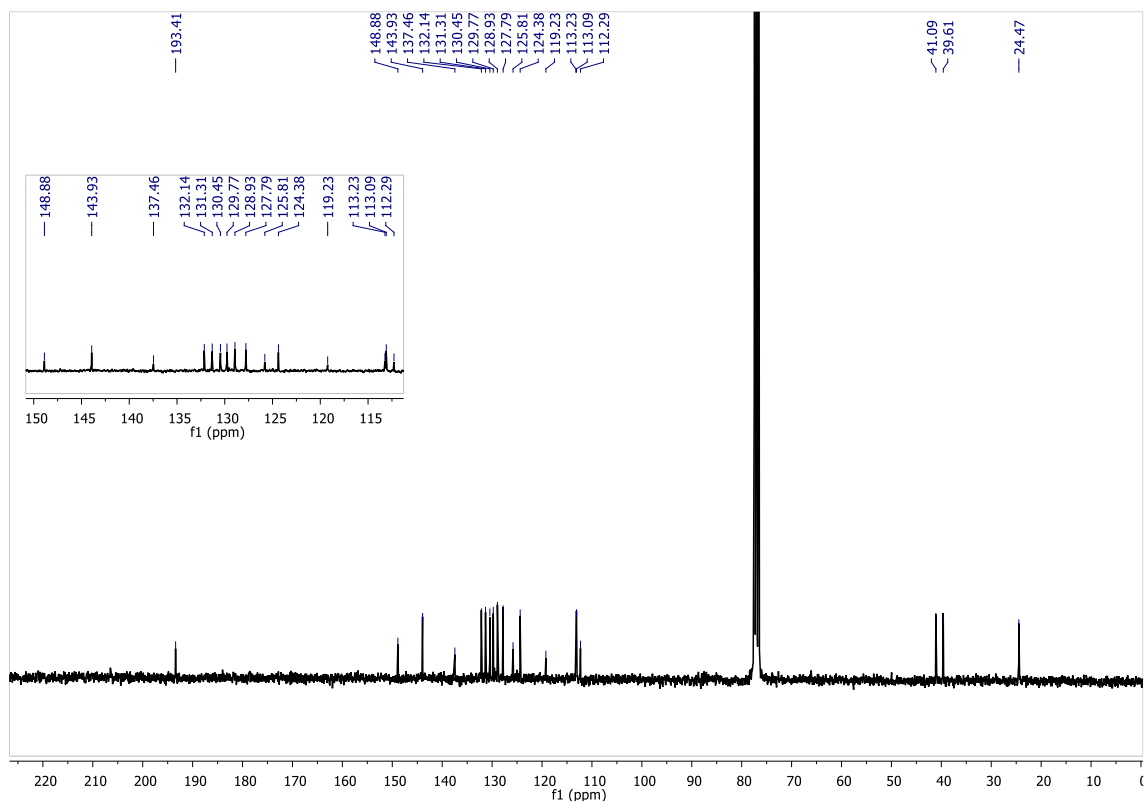
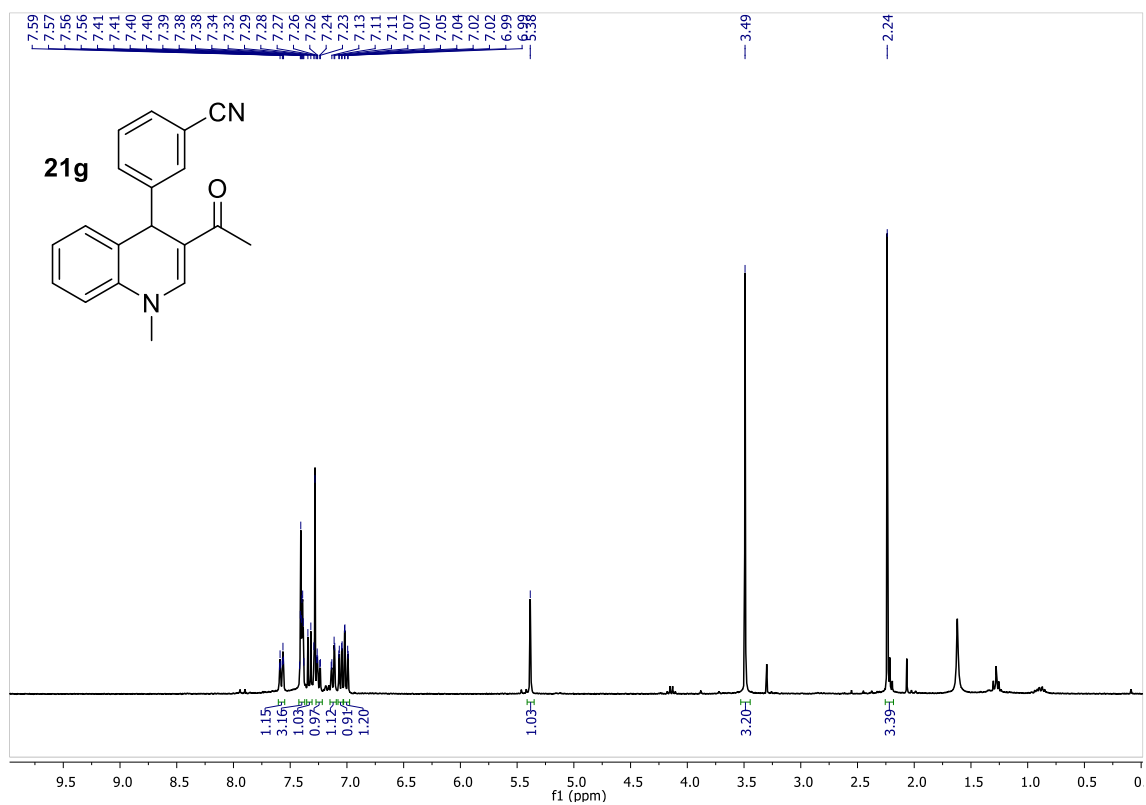




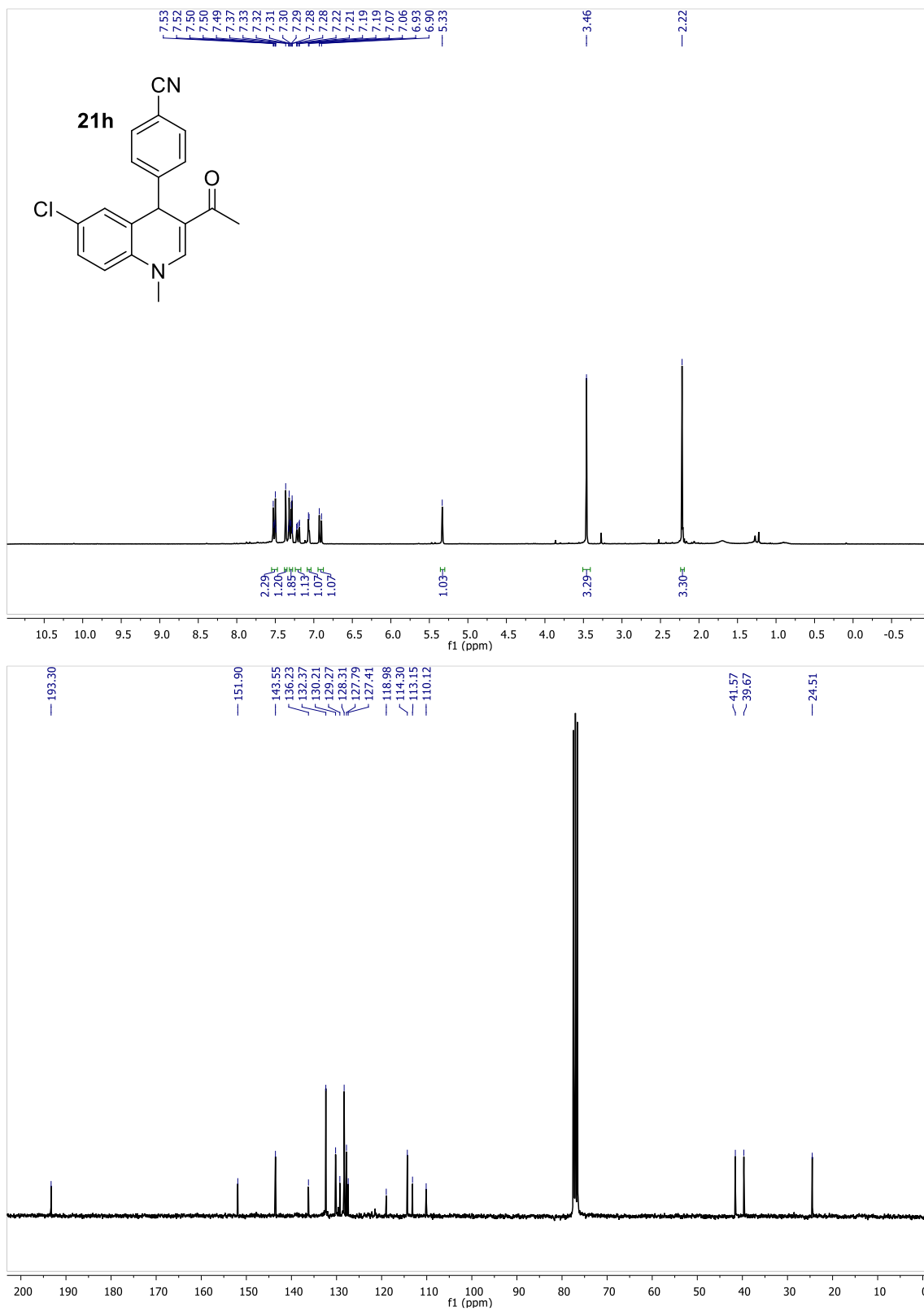
1-(1-Methyl-4-phenyl-1,4-dihydroquinolin-3-yl)ethan-1-one 21f



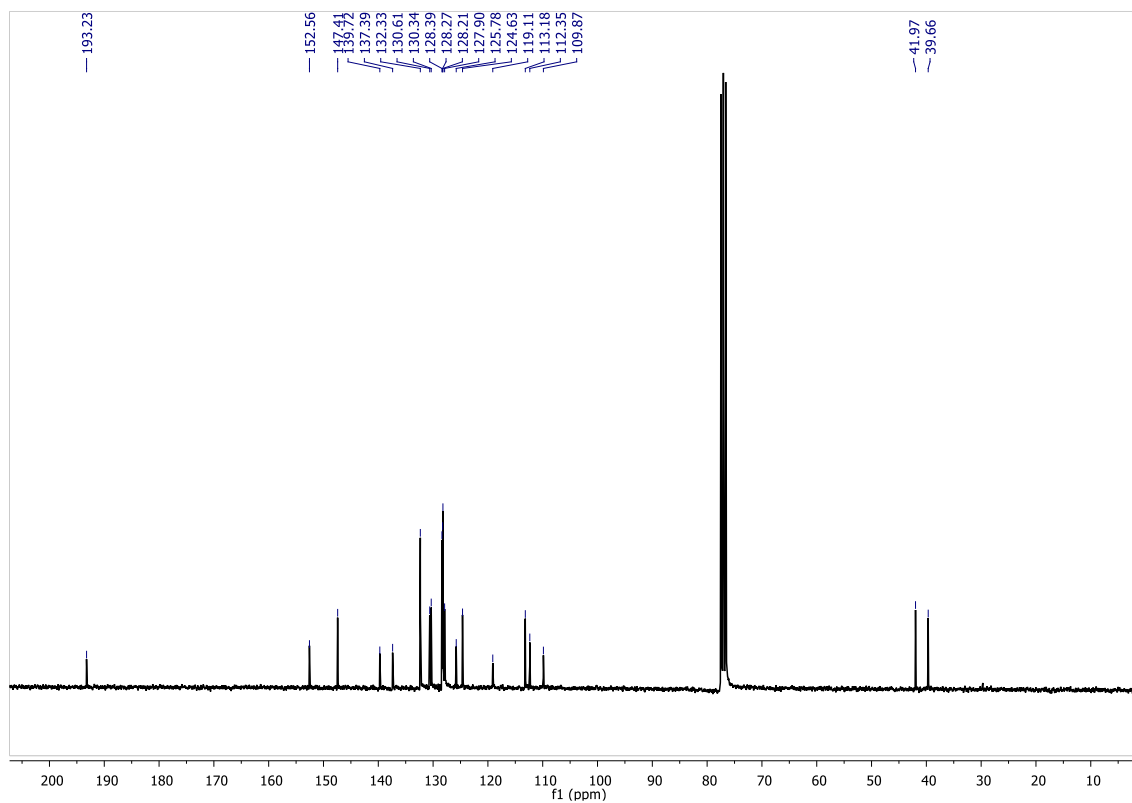
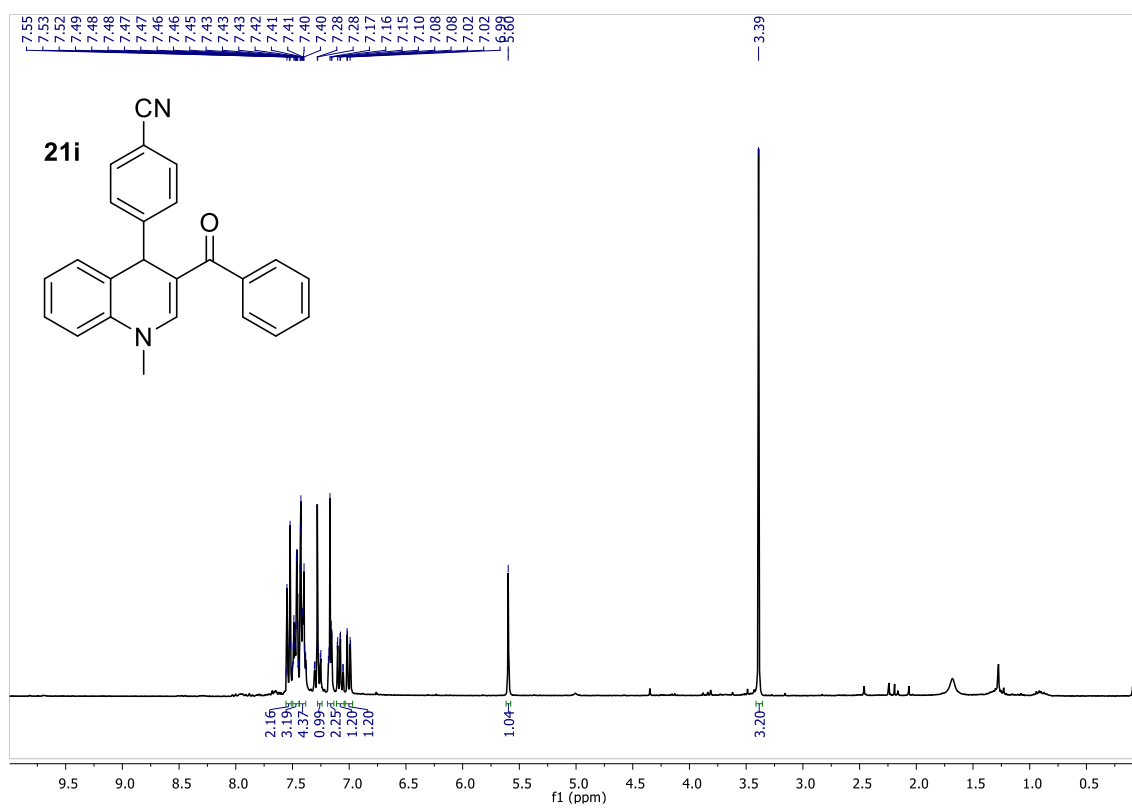
3-(3-Acetyl-1-methyl-1,4-dihydroquinolin-4-yl)benzonitrile 21g



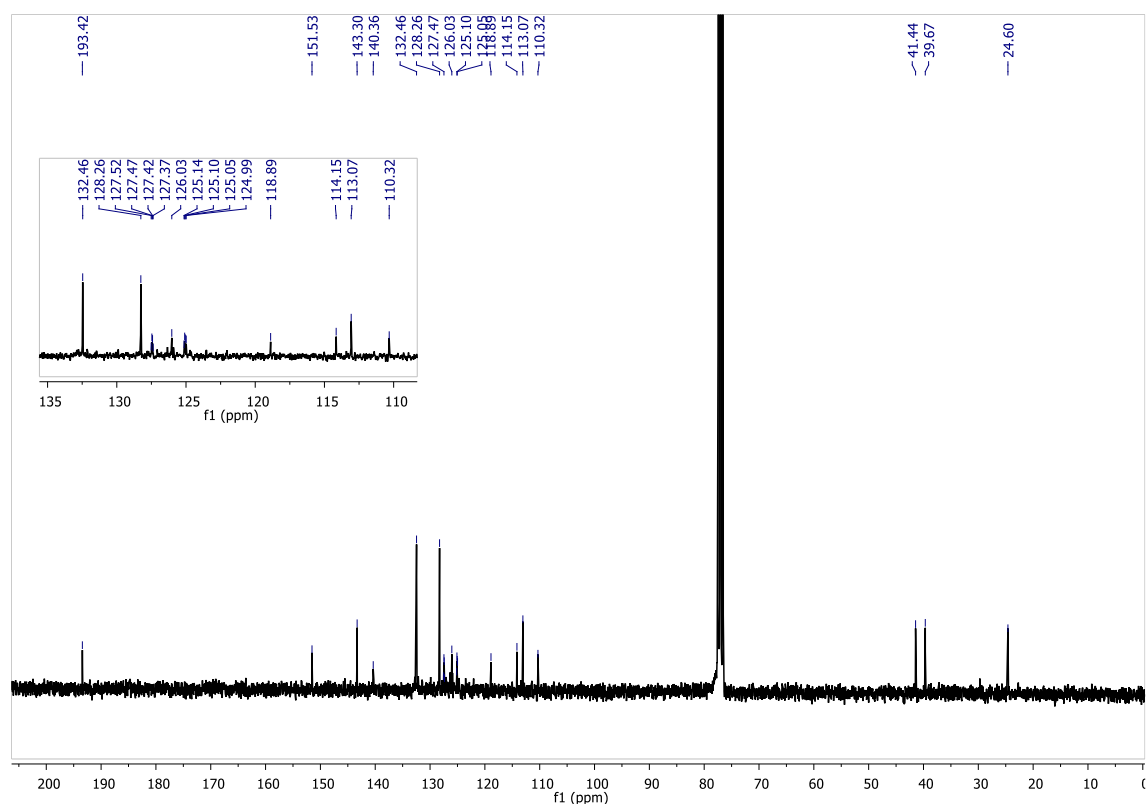
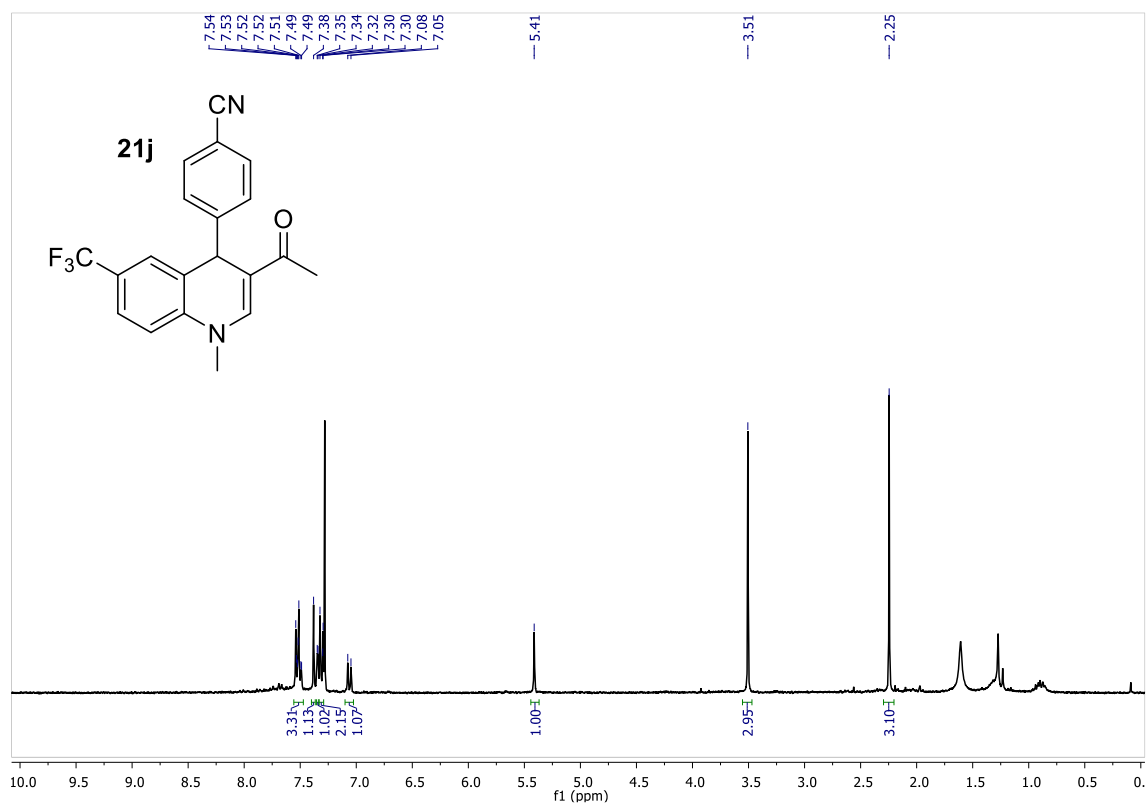
4-(3-Acetyl-6-chloro-1-methyl-1,4-dihydroquinolin-4-yl)benzonitrile 21h

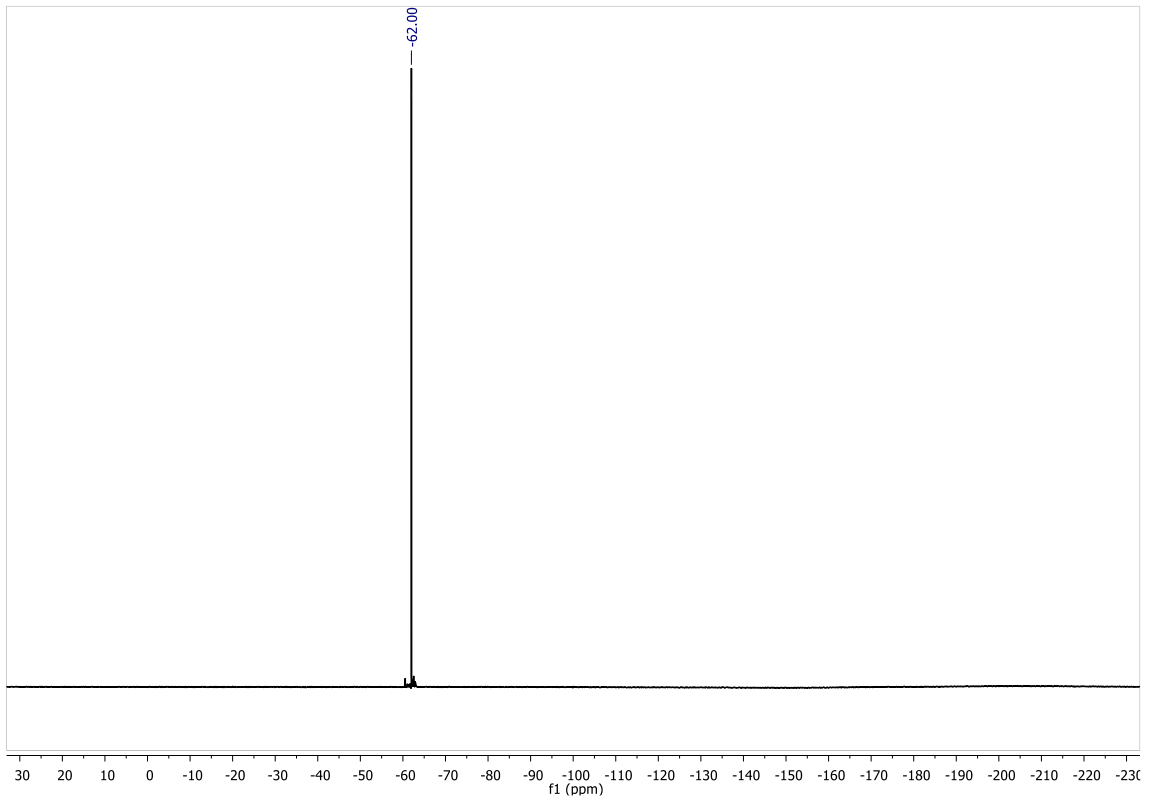


4-(3-Benzoyl-1-methyl-1,4-dihydroquinolin-4-yl)benzonitrile 21i

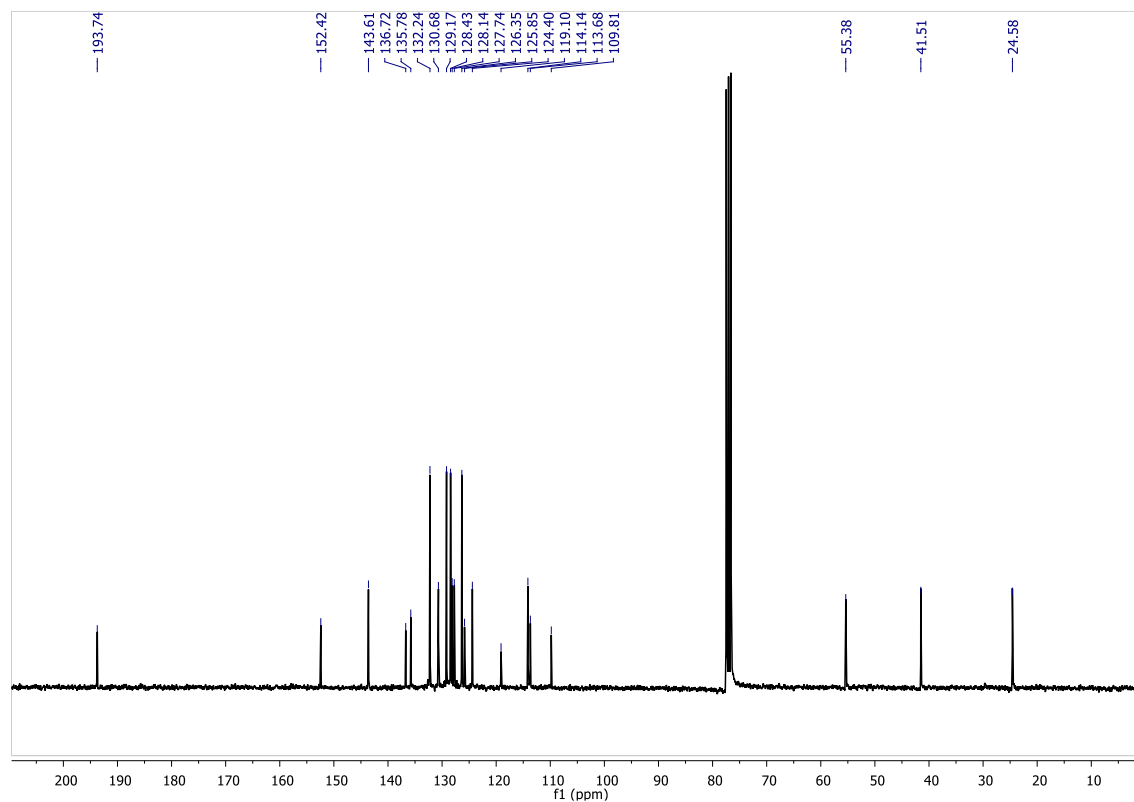
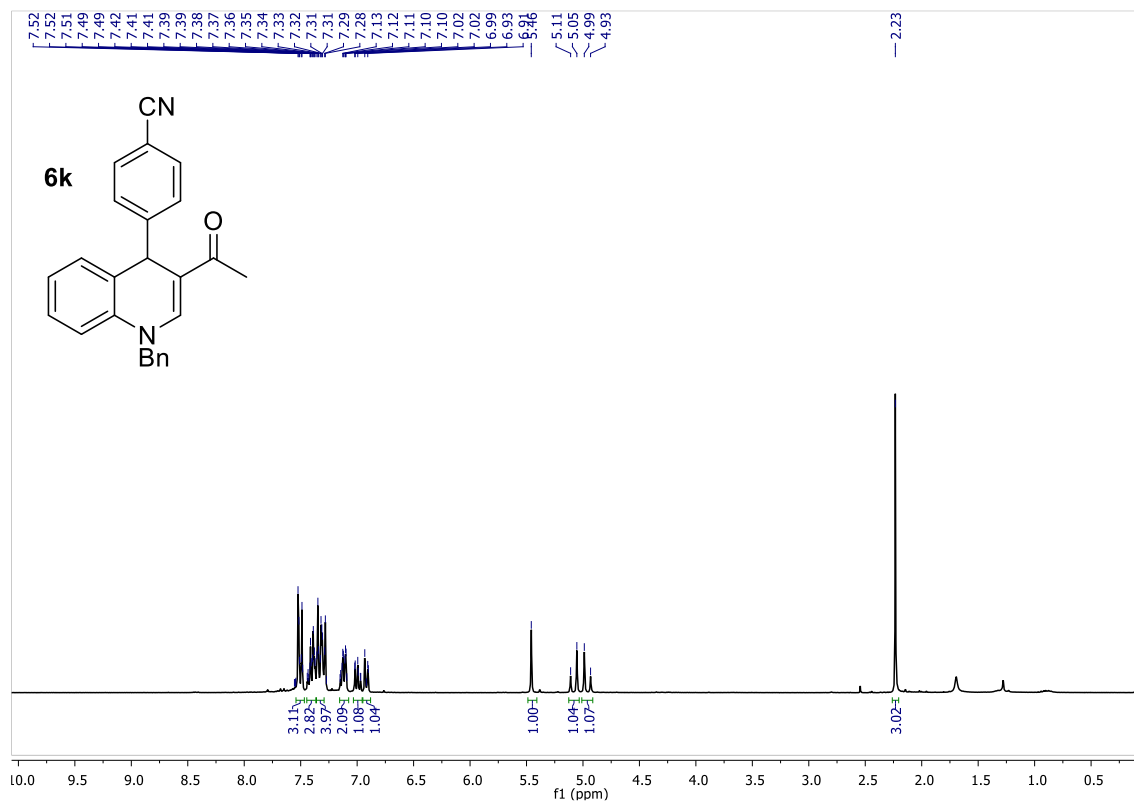


4-(3-Acetyl-1-methyl-6-(trifluoromethyl)-1,4-dihydroquinolin-4-yl)benzonitrile **21j**

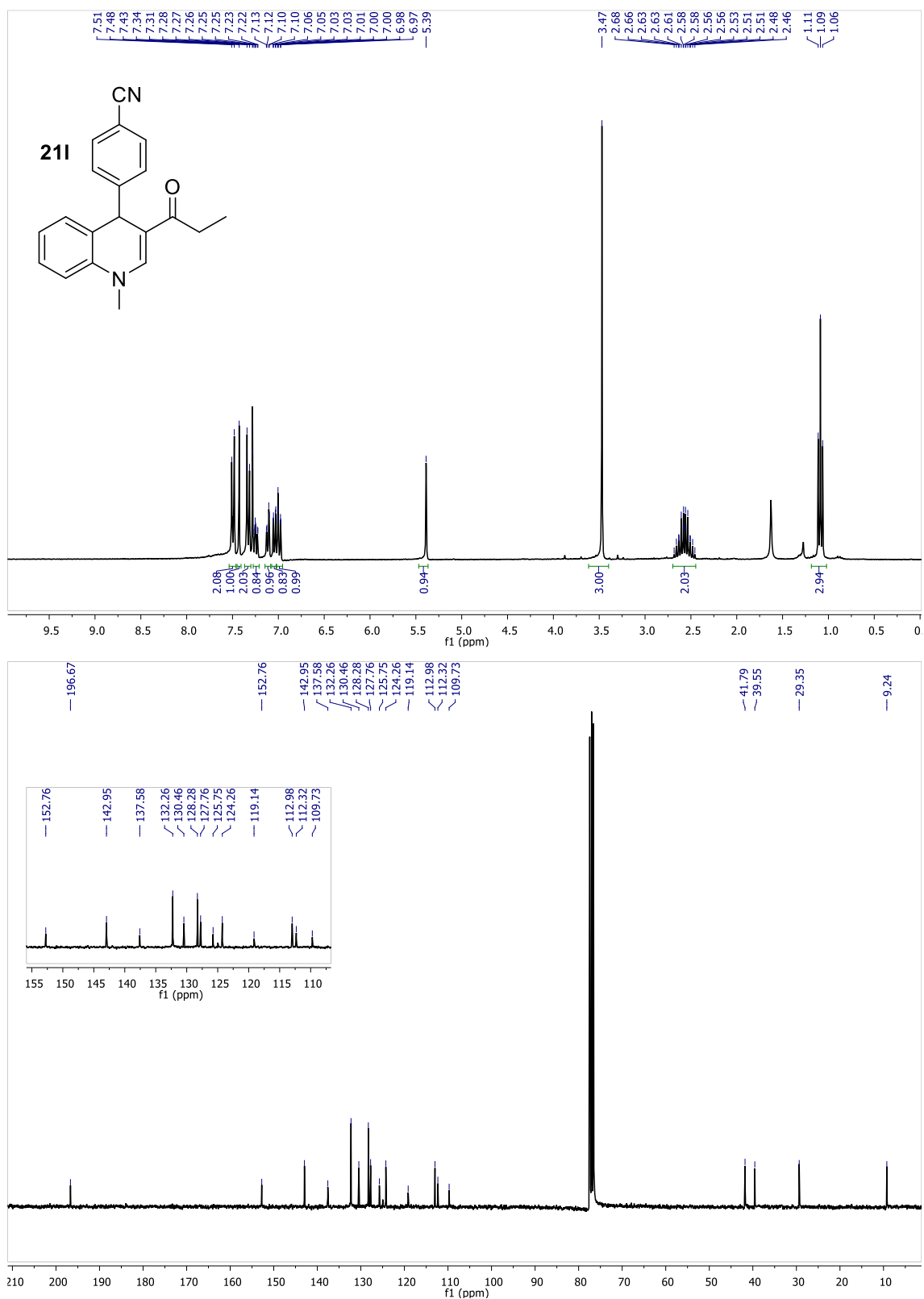




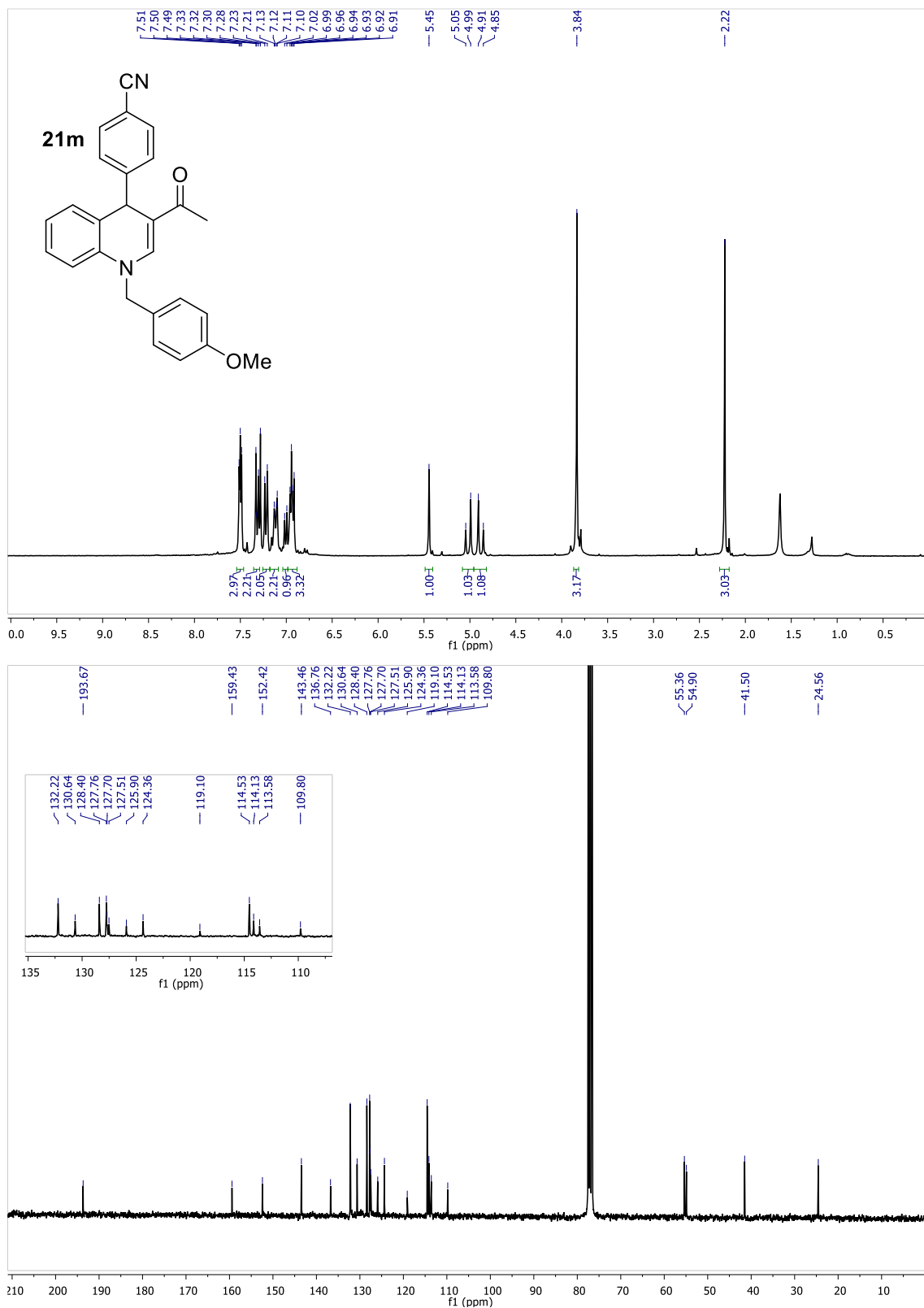
4-(3-Acetyl-1-benzyl-1,4-dihydroquinolin-4-yl)benzonitrile **21k**



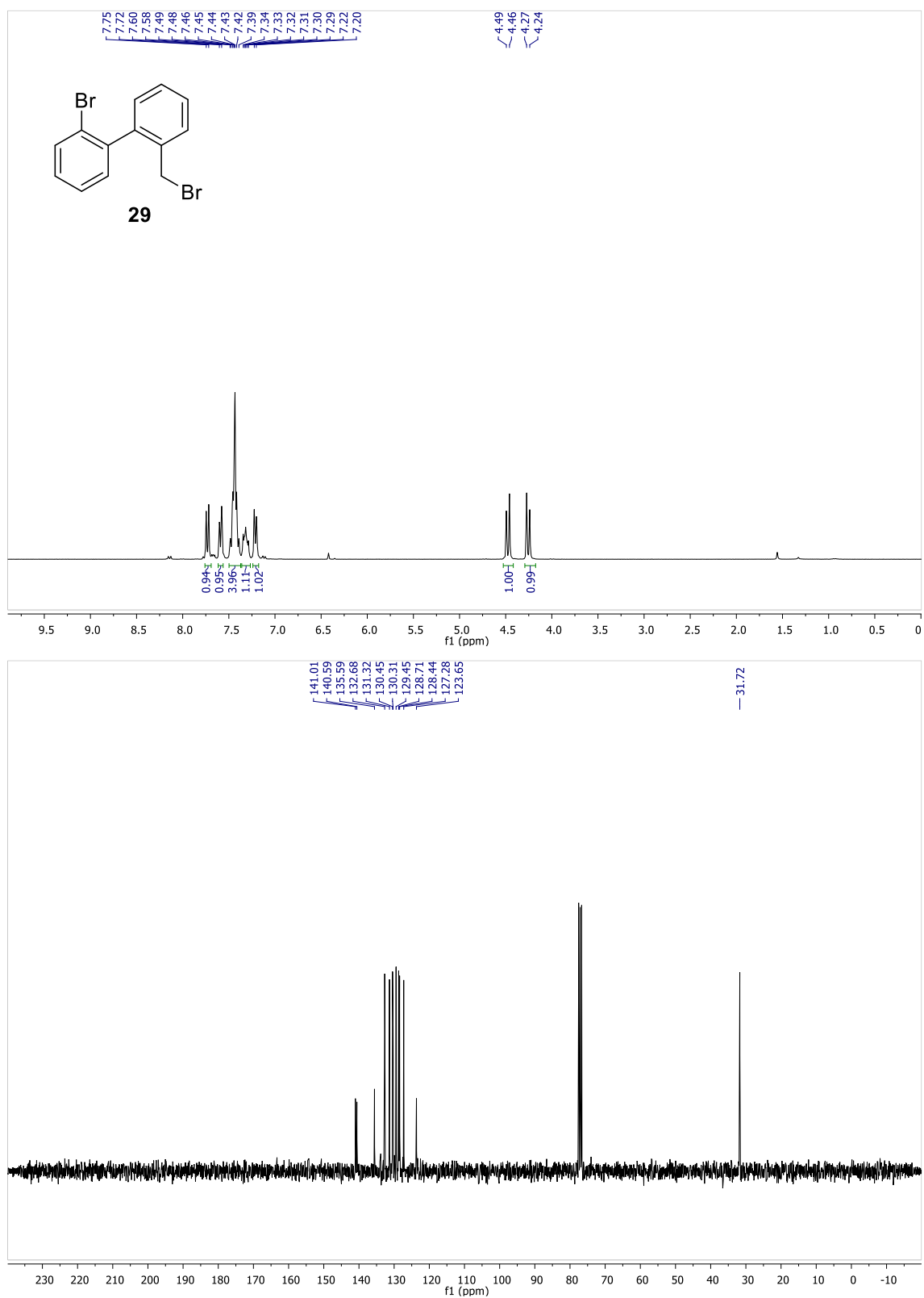
4-(1-Methyl-3-propionyl-1,4-dihydroquinolin-4-yl)benzonitrile 211



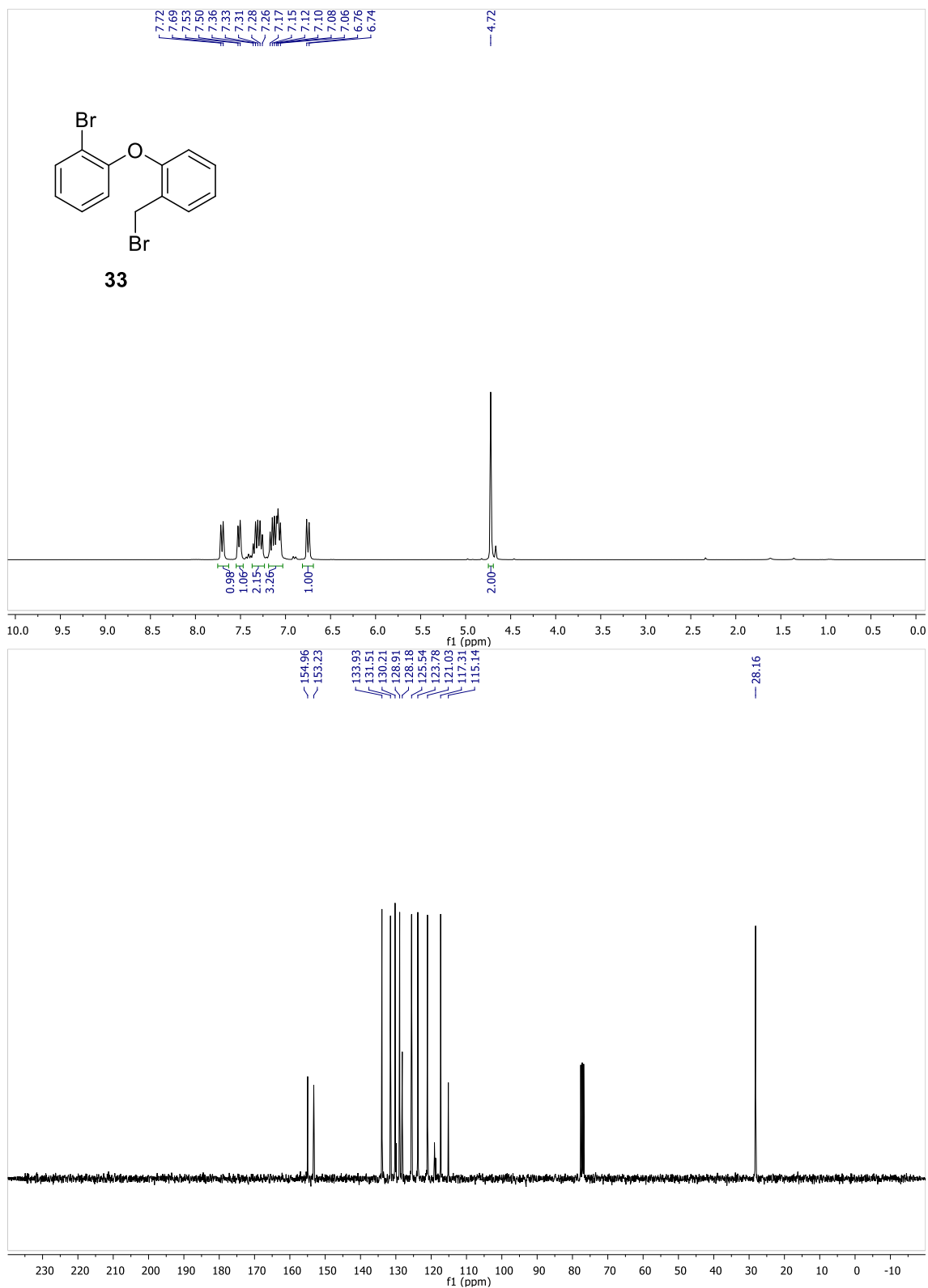
4-(3-Acetyl-1-(4-methoxybenzyl)-1,4-dihydroquinolin-4-yl)benzonitrile **21m**



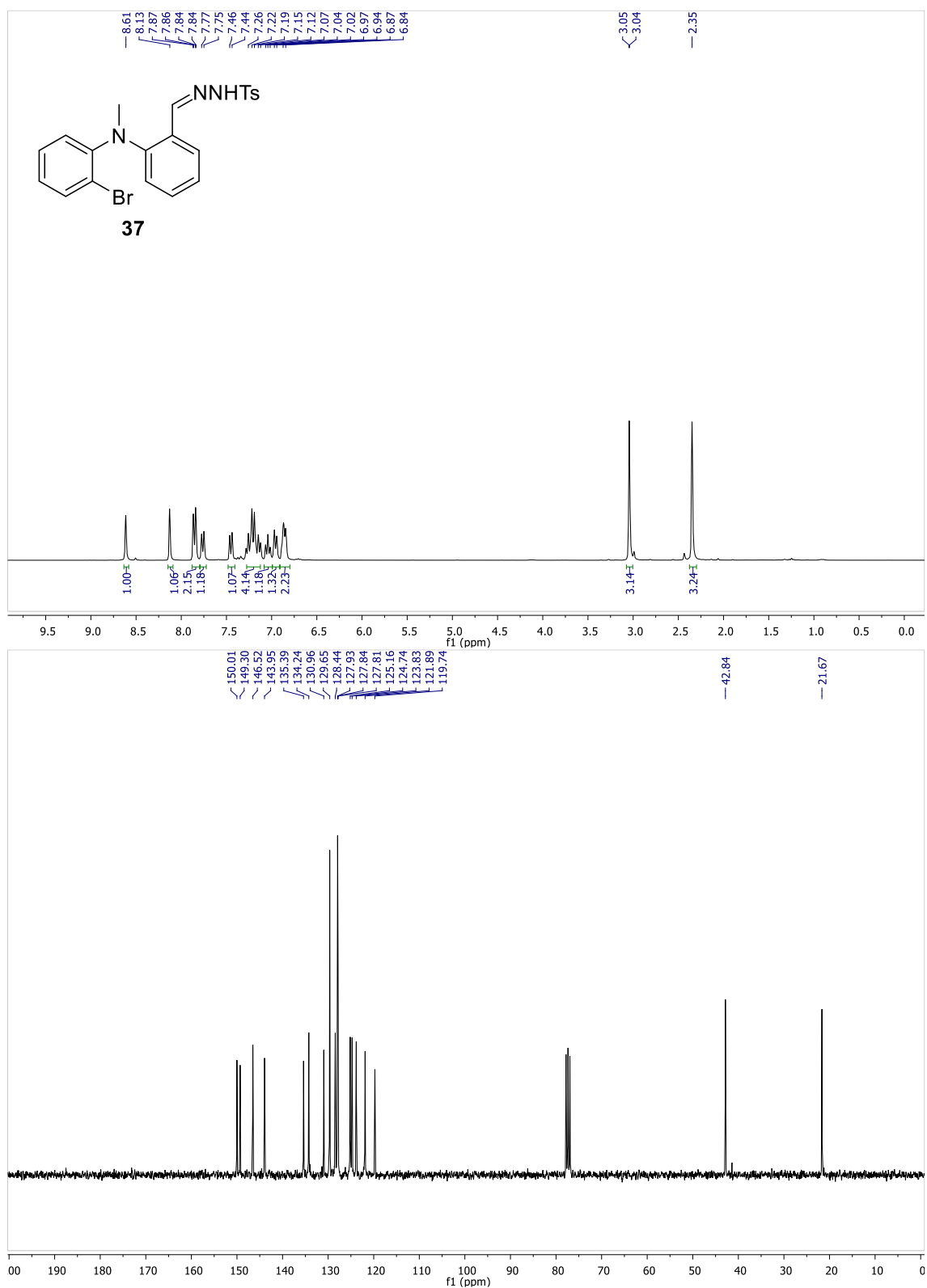
2-Bromo-2'-(bromomethyl)-1,1'-biphenyl 29



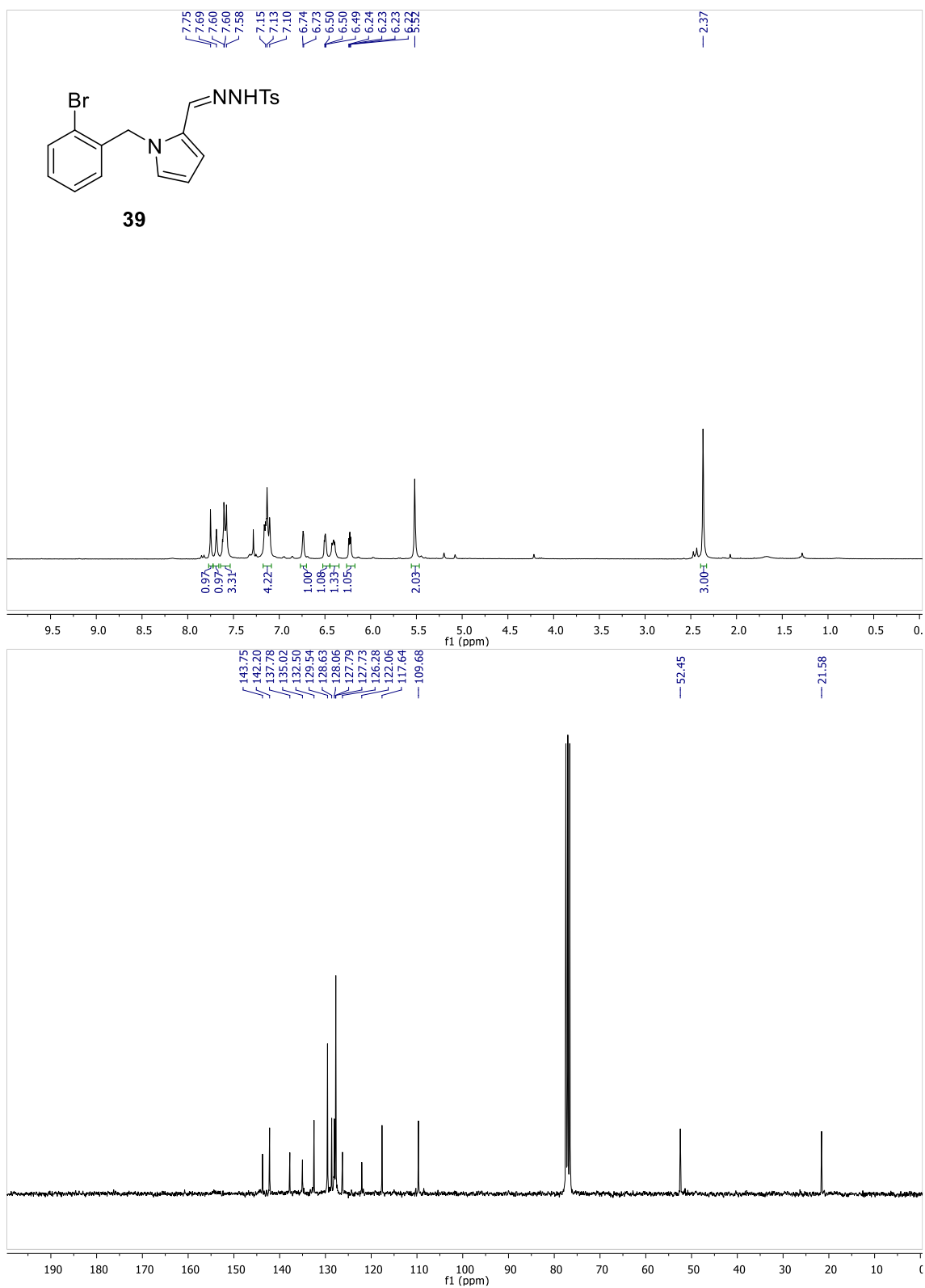
1-Bromo-2-(2-(bromomethyl)phenoxy)benzene **33**



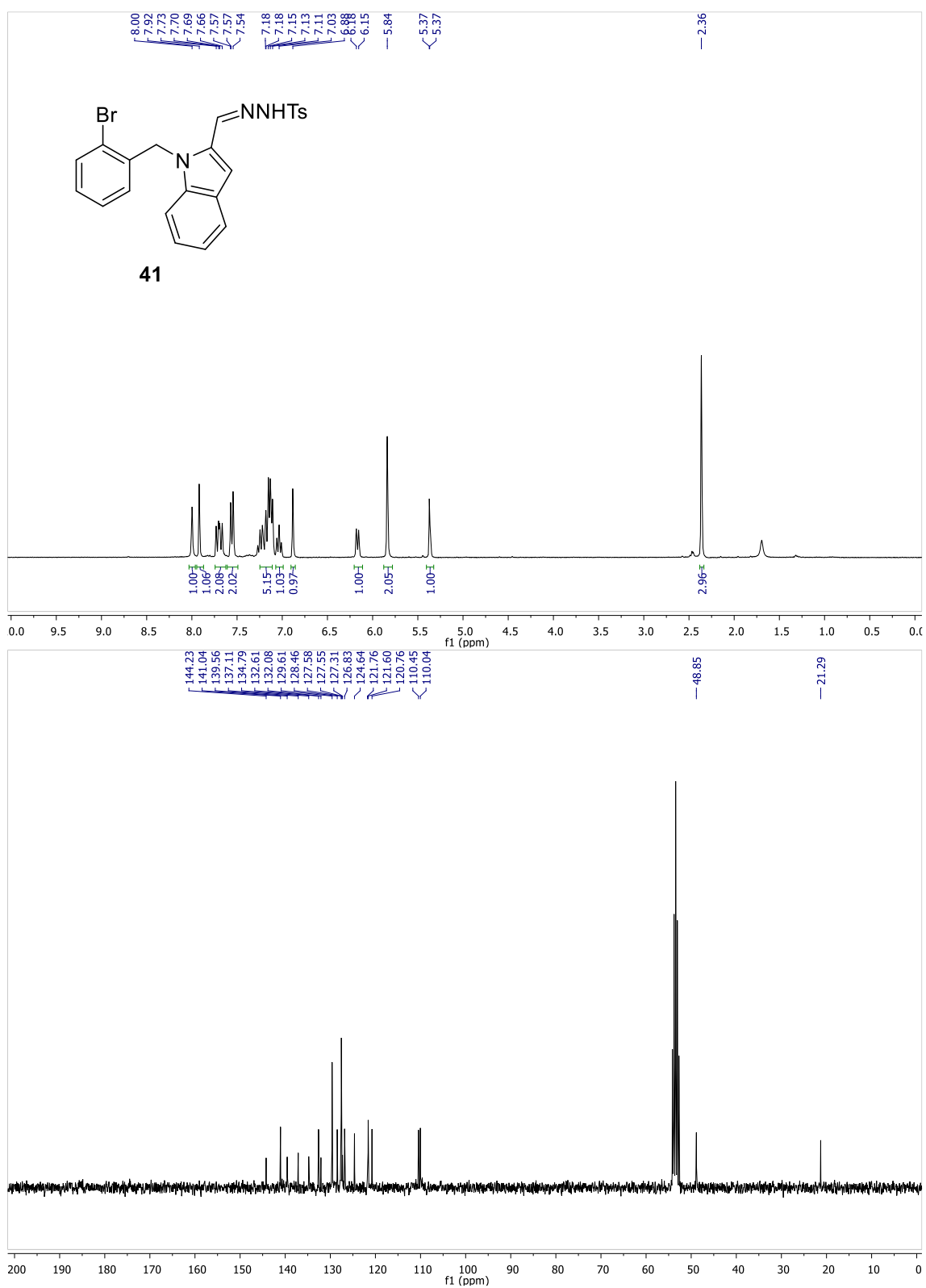
(E)*-N'-(2-((2-Bromophenyl)(methyl)amino)benzylidene)-4-methylbenzenesulfonylhydrazide **37*



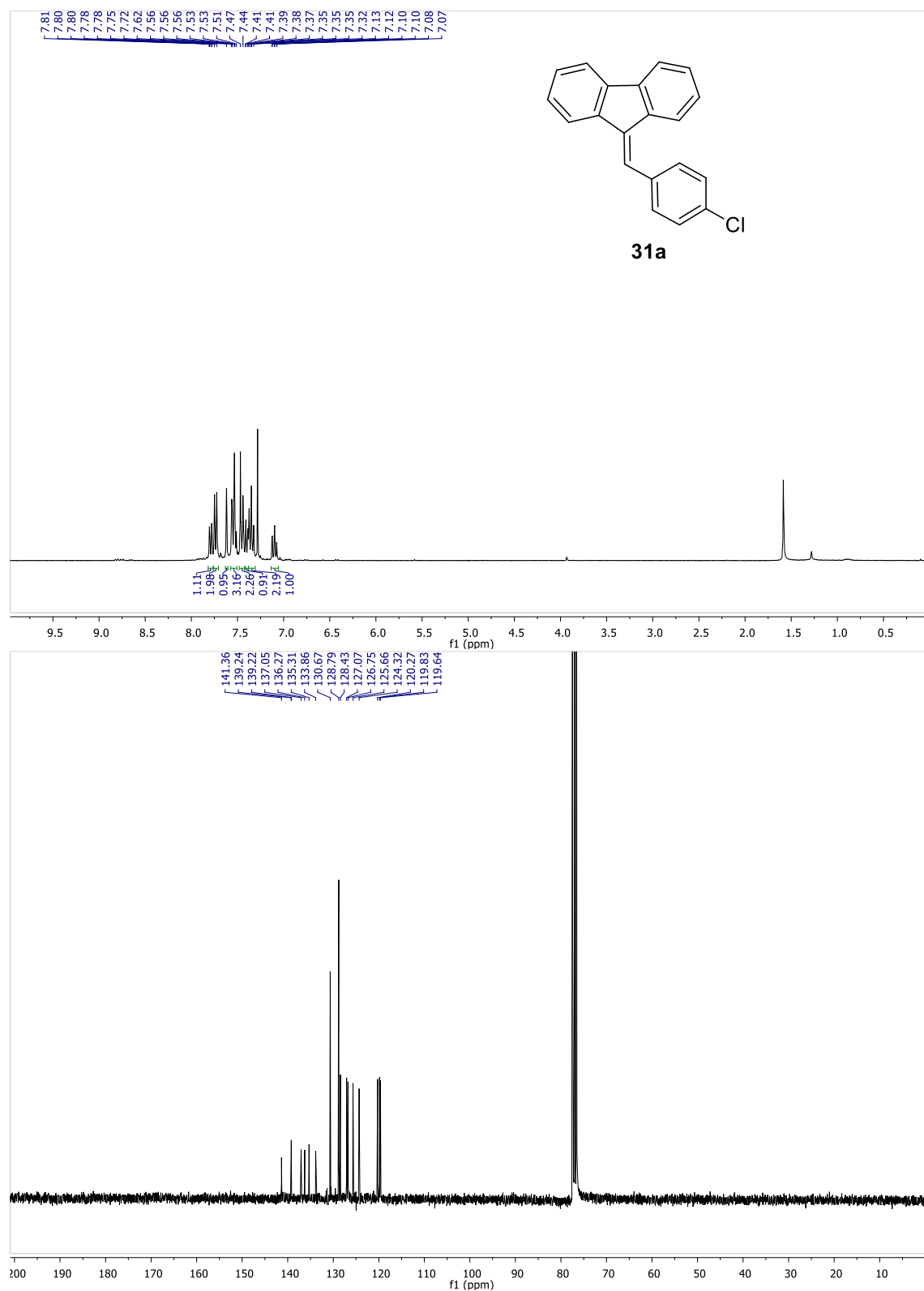
N'-((1-(2-Bromobenzyl)-1*H*-pyrrol-2-yl)methylene)-4-methylbenzenesulfonylhydrazide **39**



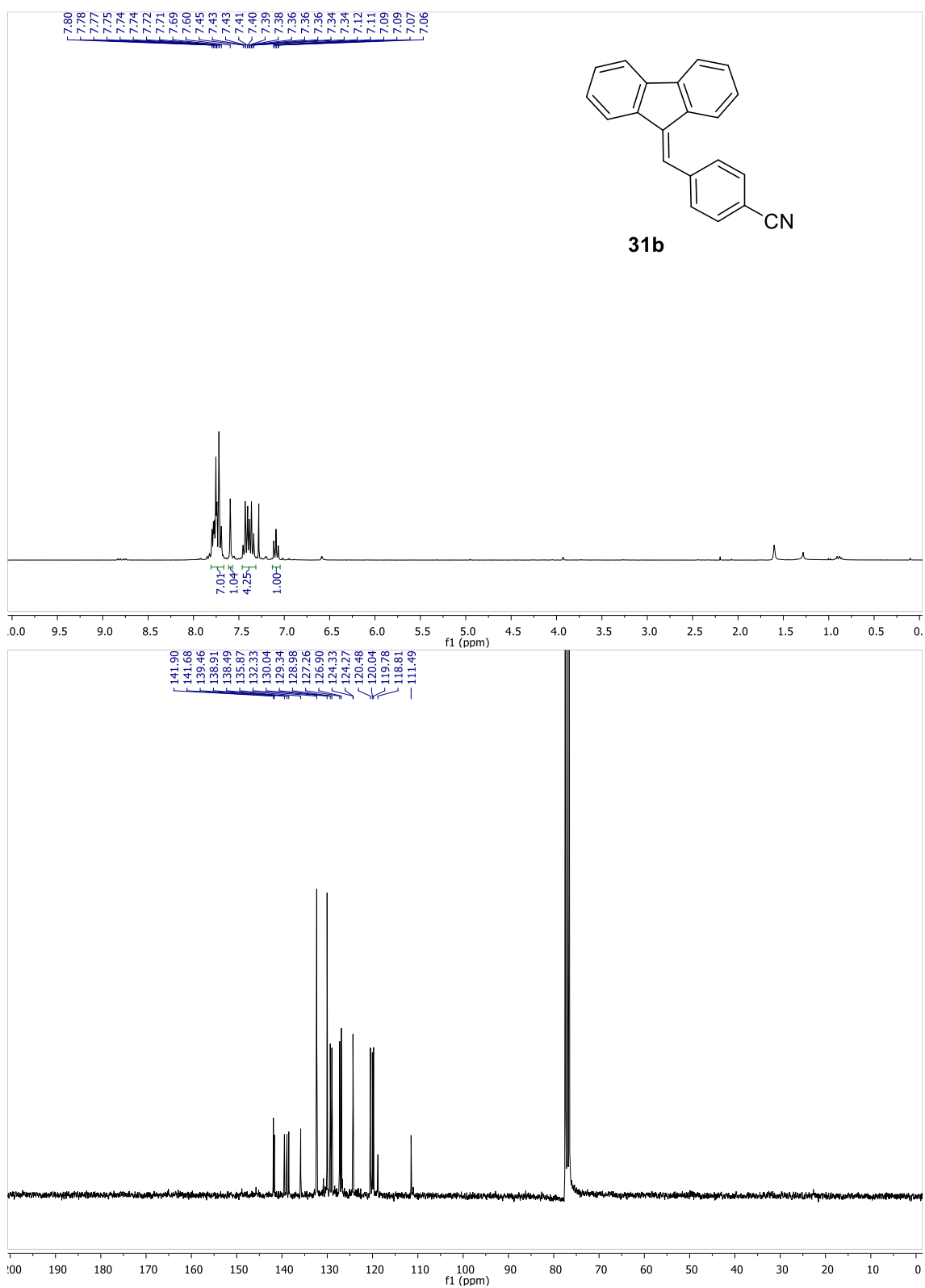
N'-((1-(2-Bromobenzyl)-1*H*-indol-2-yl)methylene)-4-methylbenzenesulfonamide **41**



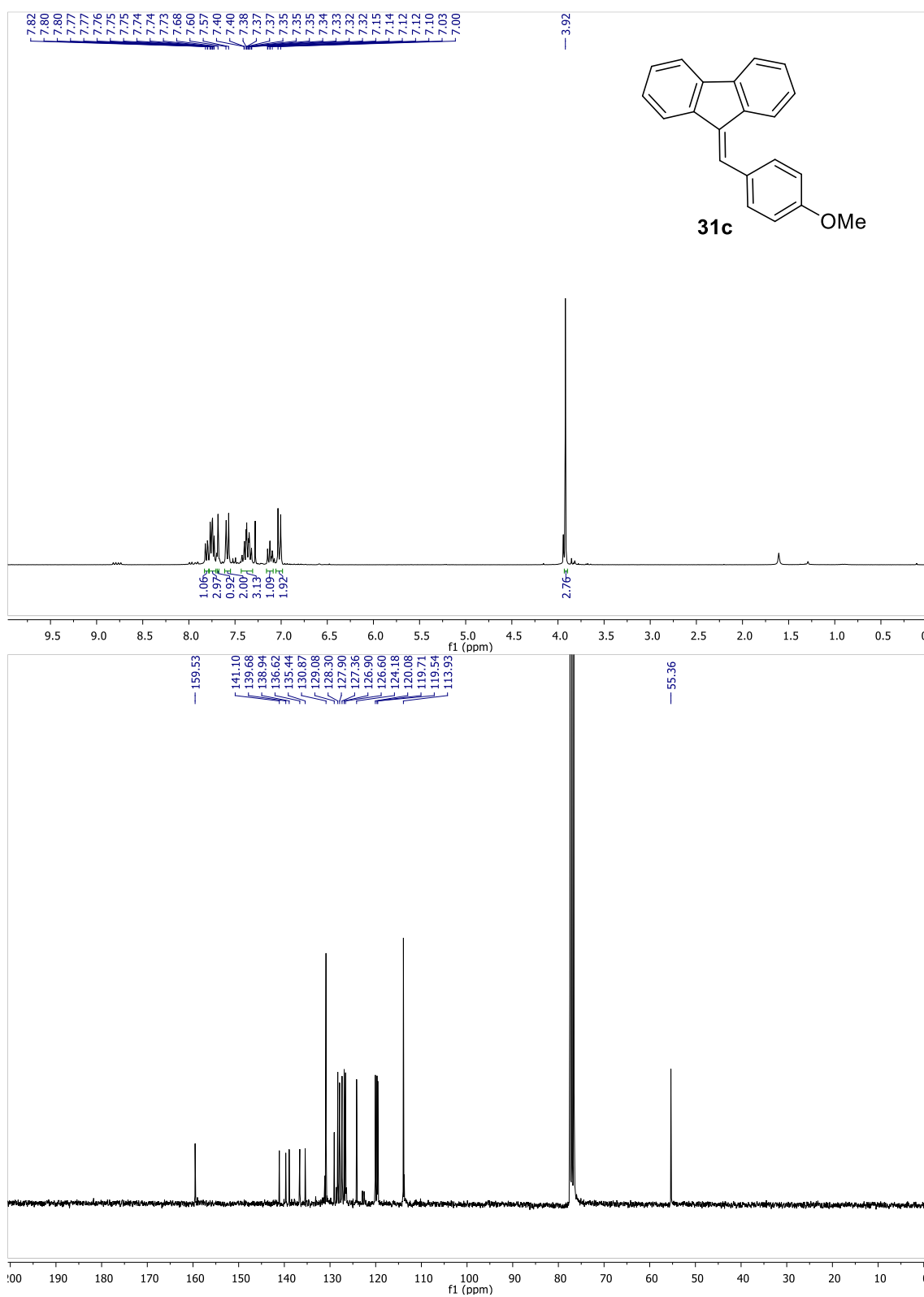
9-(4-Chlorobenzylidene)-9H-fluorene (31a)



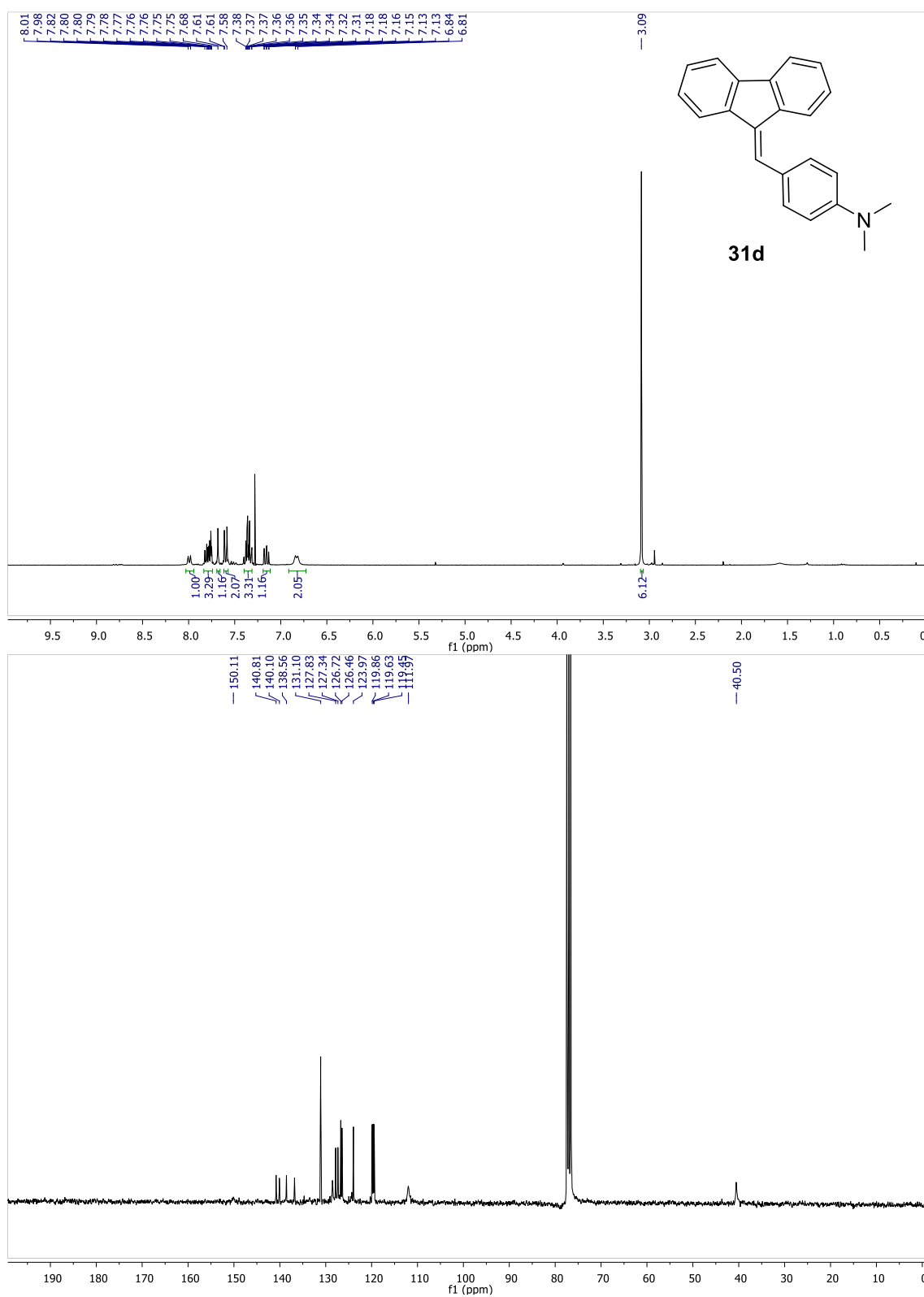
4-((9H-Fluoren-9-ylidene)methyl)benzonitrile (**31b**)



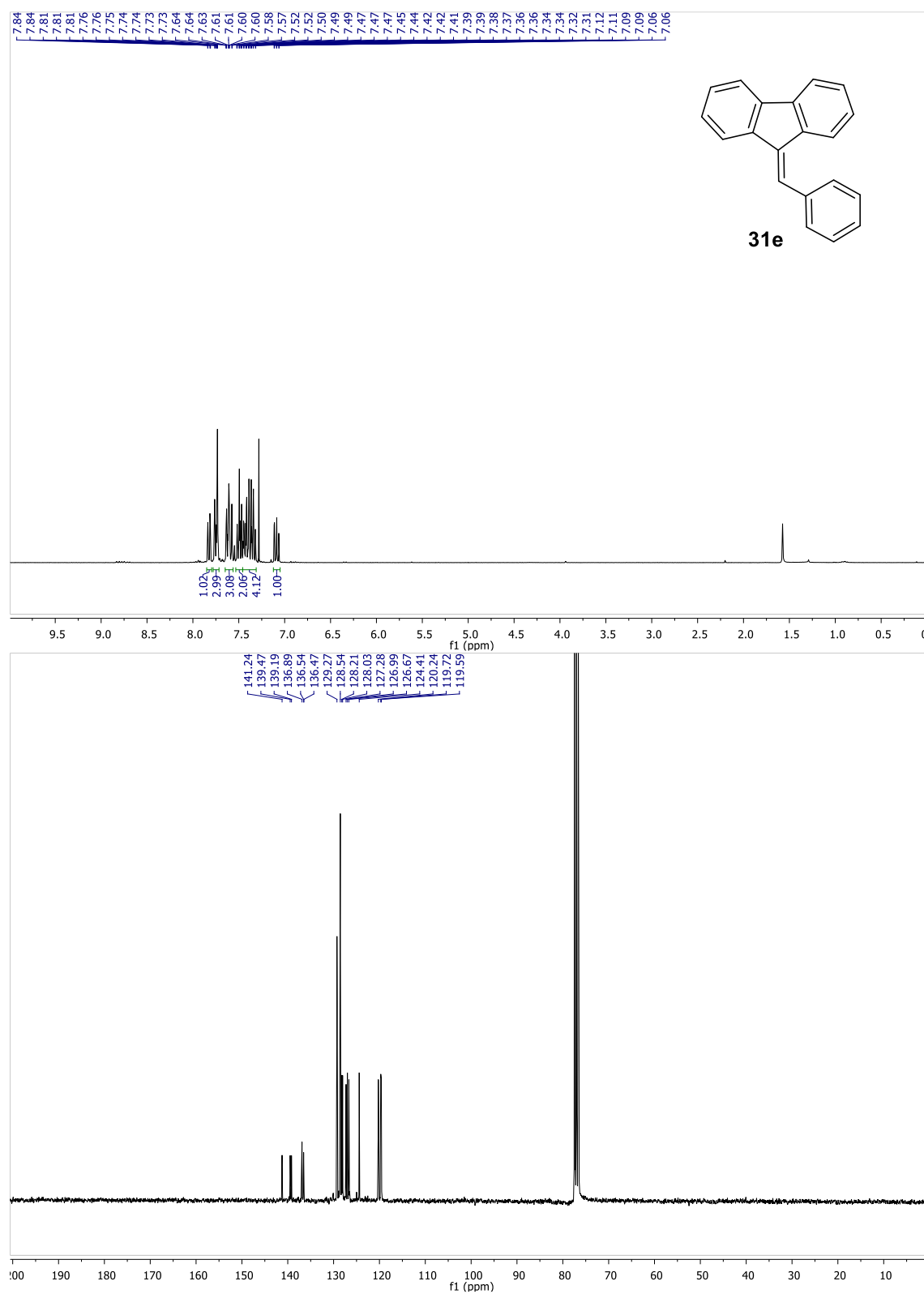
9-(4-Methoxybenzylidene)-9H-fluorene (**31c**)



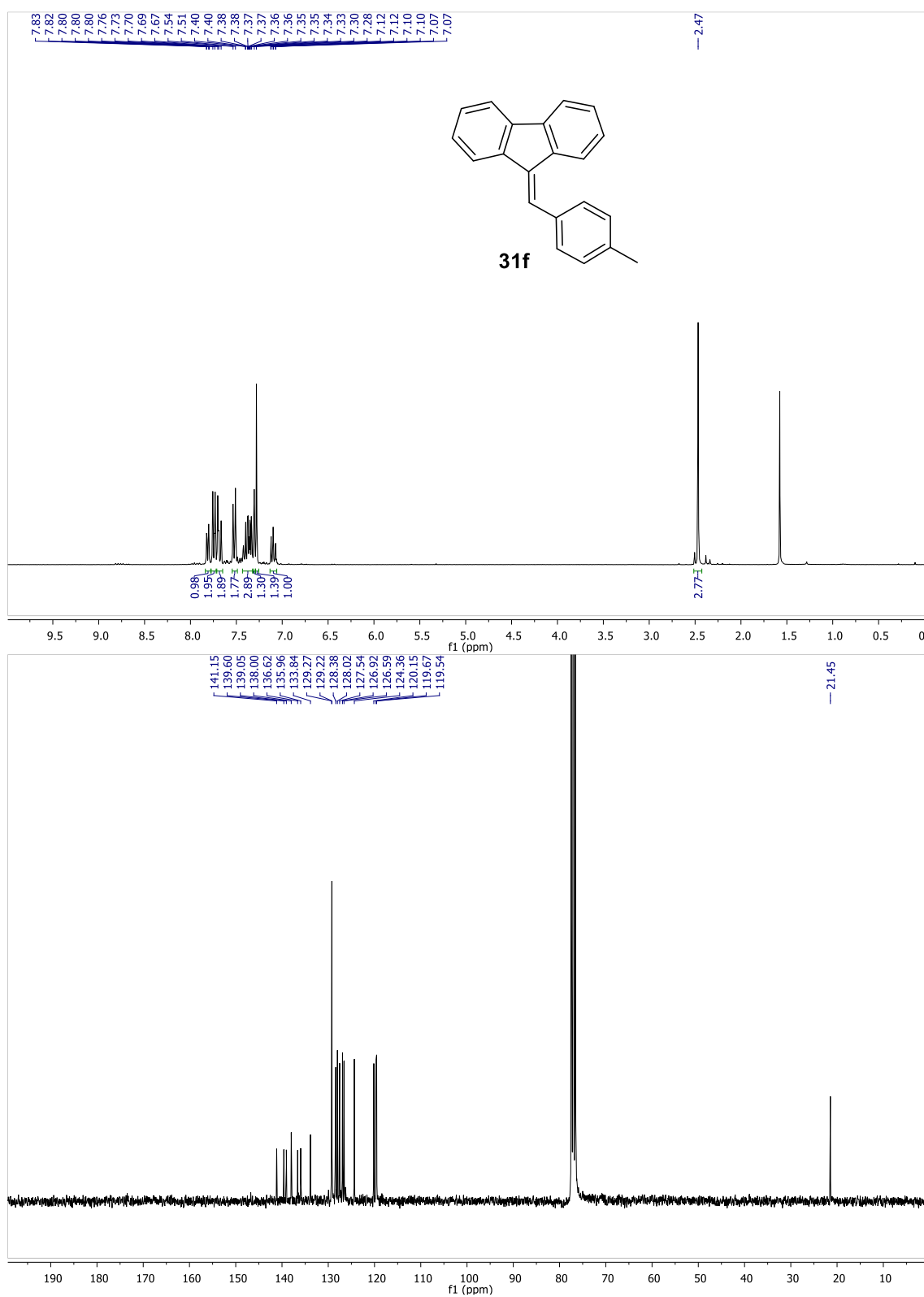
4-((9H-Fluoren-9-ylidene)methyl)-N,N-dimethylaniline (**31d**)



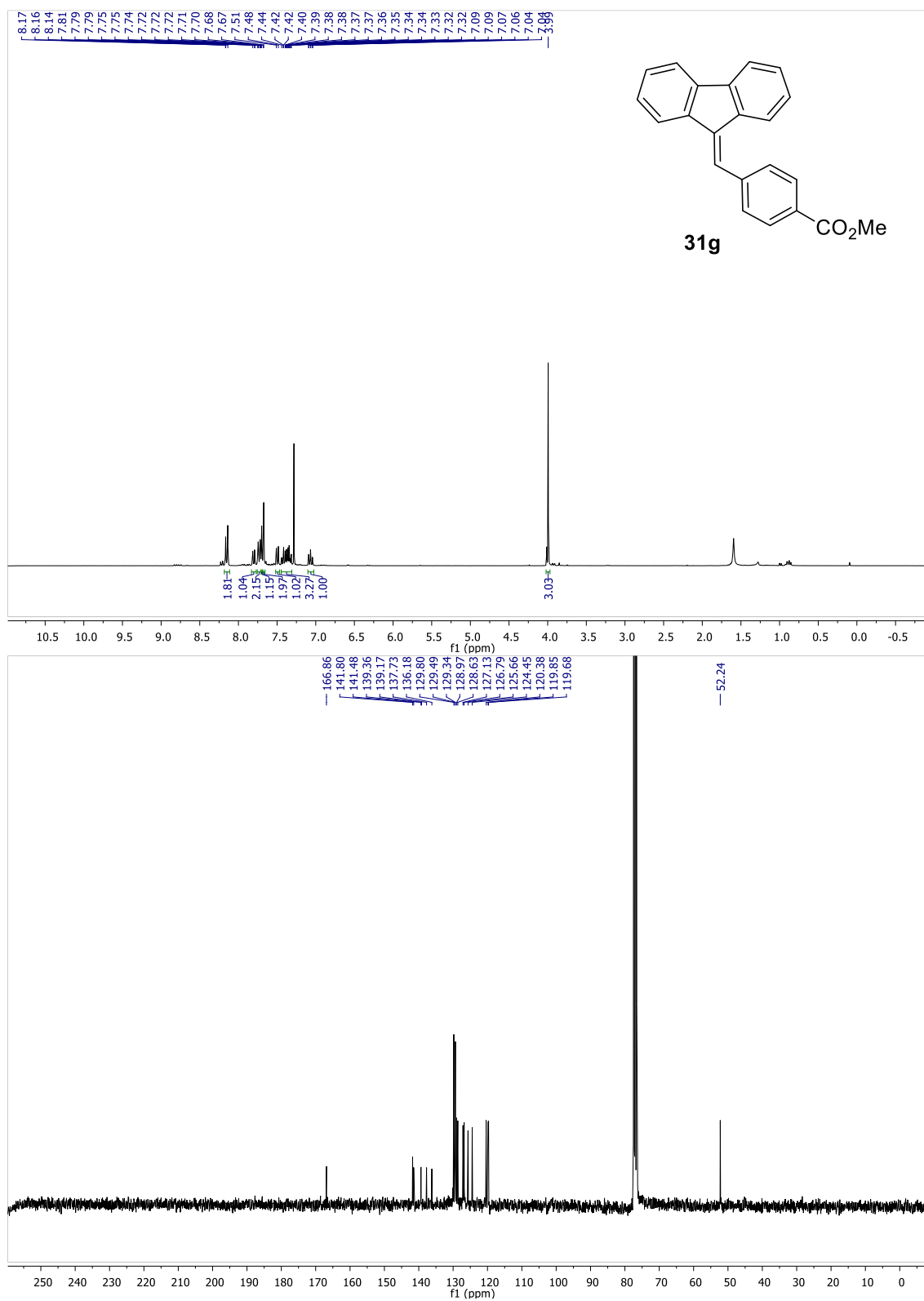
9-Benzylidene-9H-fluorene (**31e**)



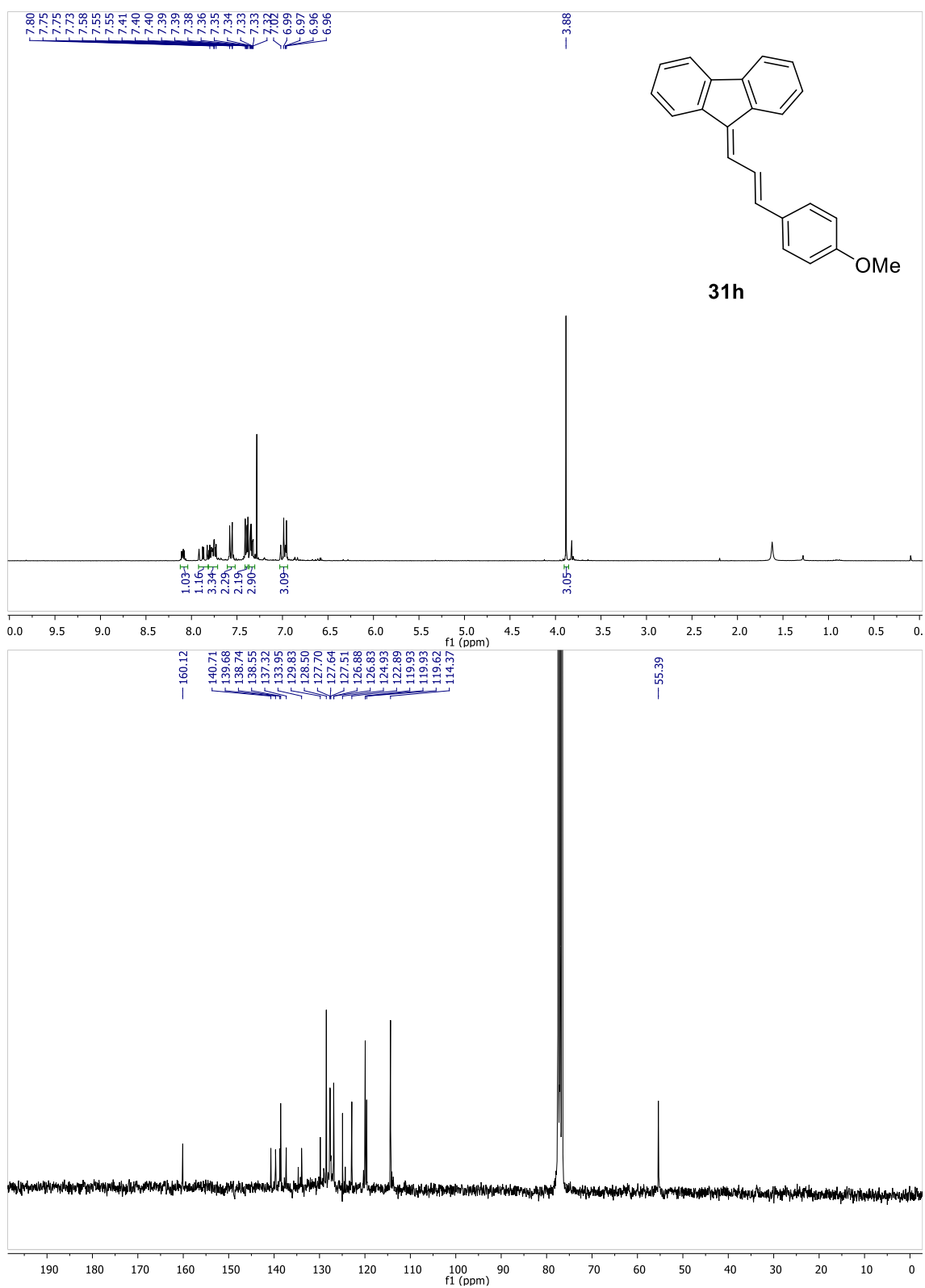
9-(4-Methylbenzylidene)-9H-fluorene (**31f**)



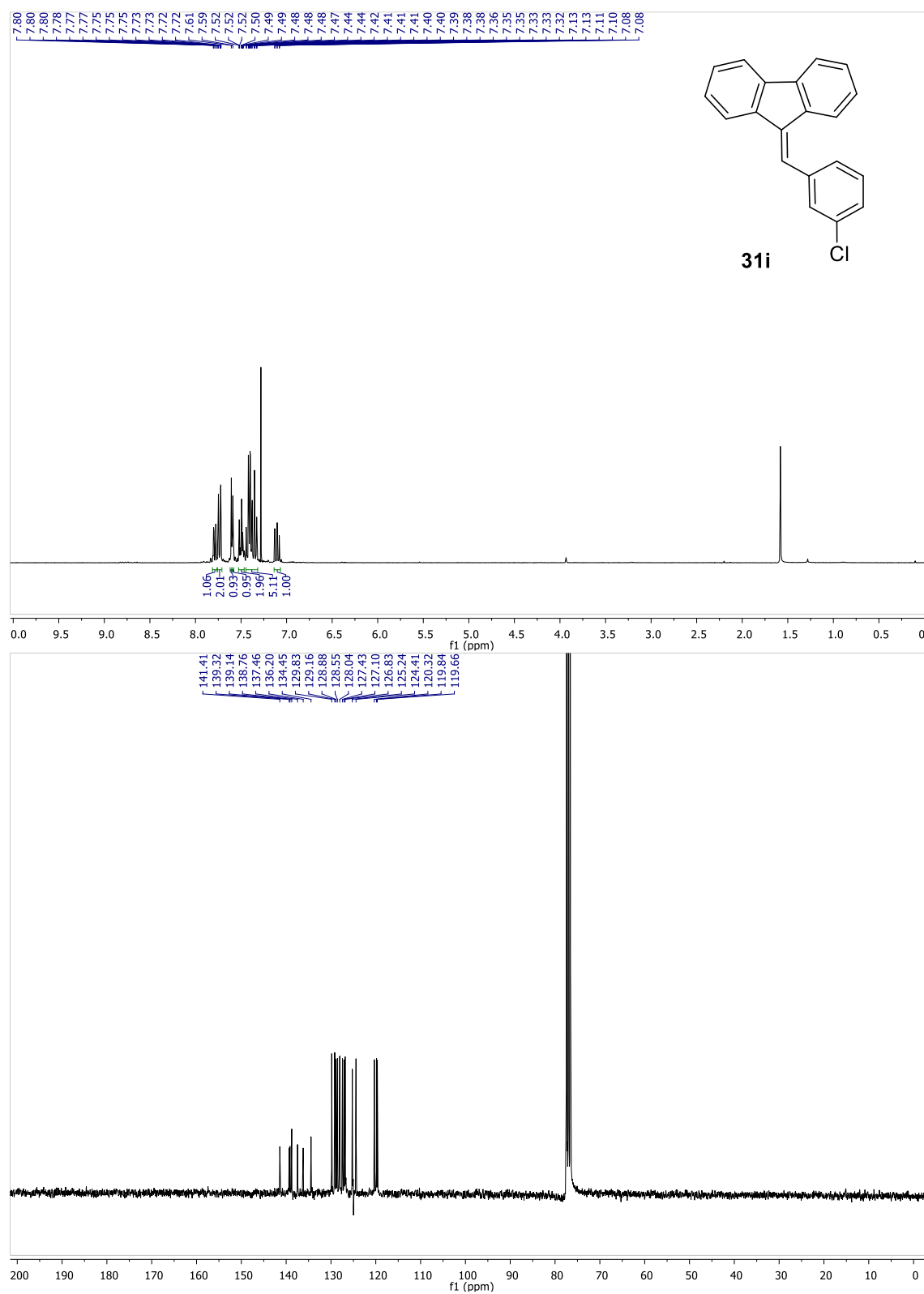
Methyl 4-((9H-fluoren-9-ylidene)methyl)benzoate (31g)



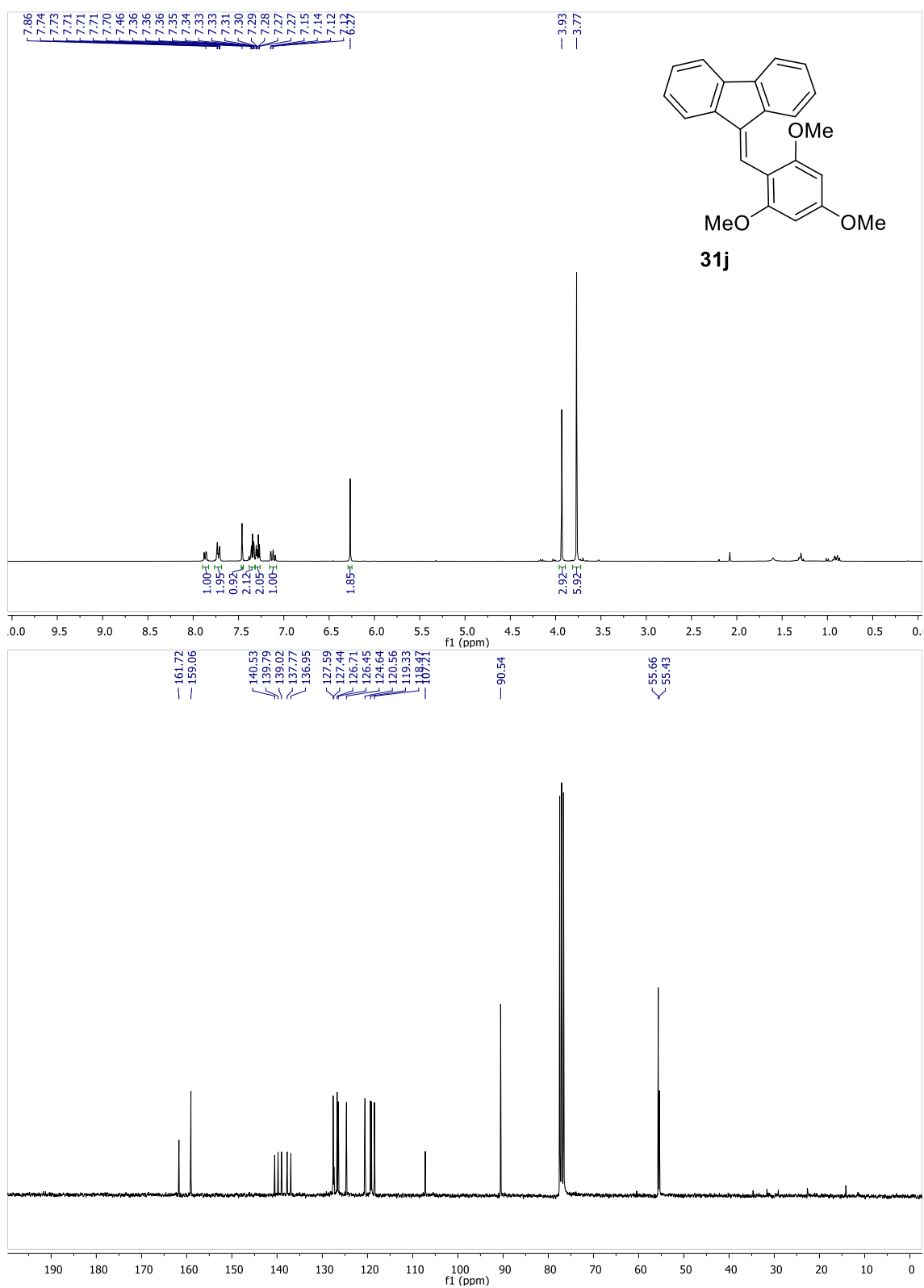
(E)-9-(3-(4-Methoxyphenyl)allylidene)-9H-fluorene (31h)



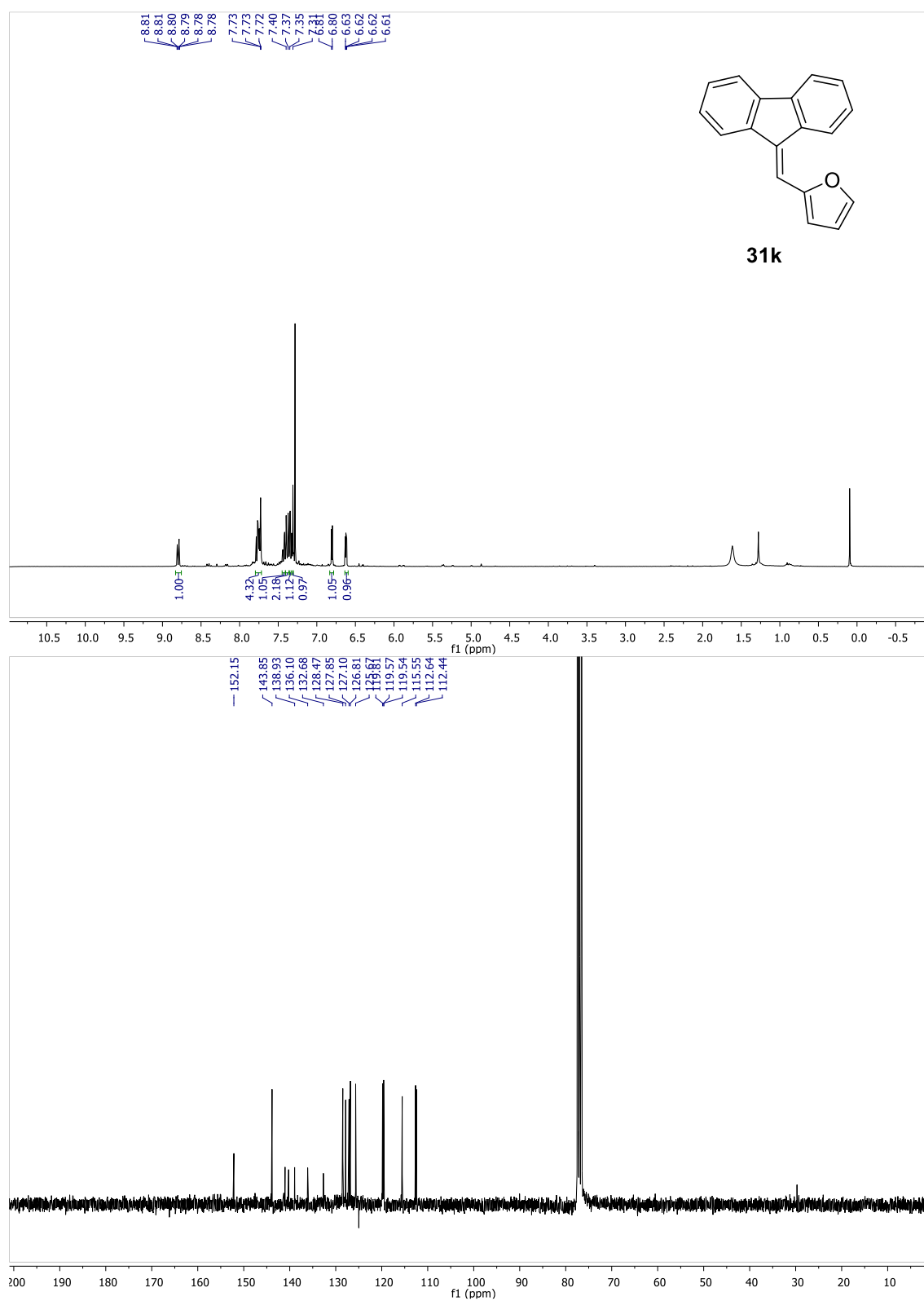
9-(3-Chlorobenzylidene)-9H-fluorene (31i)



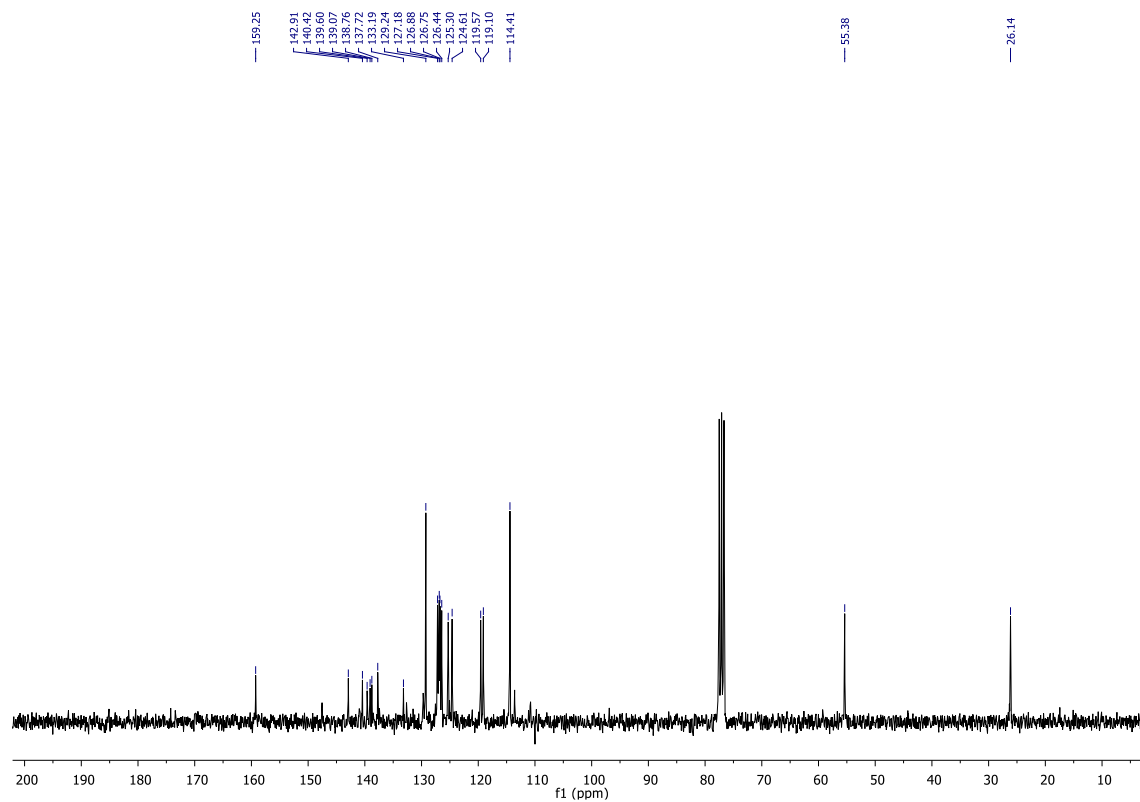
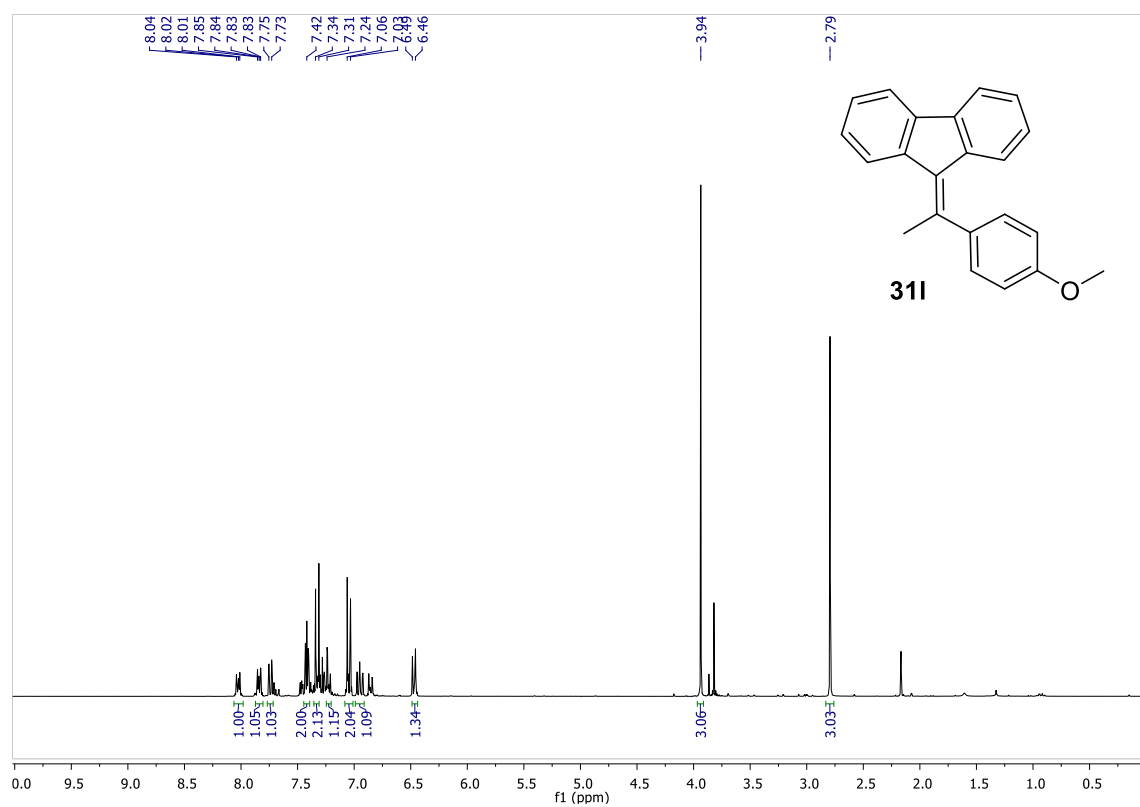
9-(2,4,6-Trimethoxybenzylidene)-9H-fluorene (**31j**)



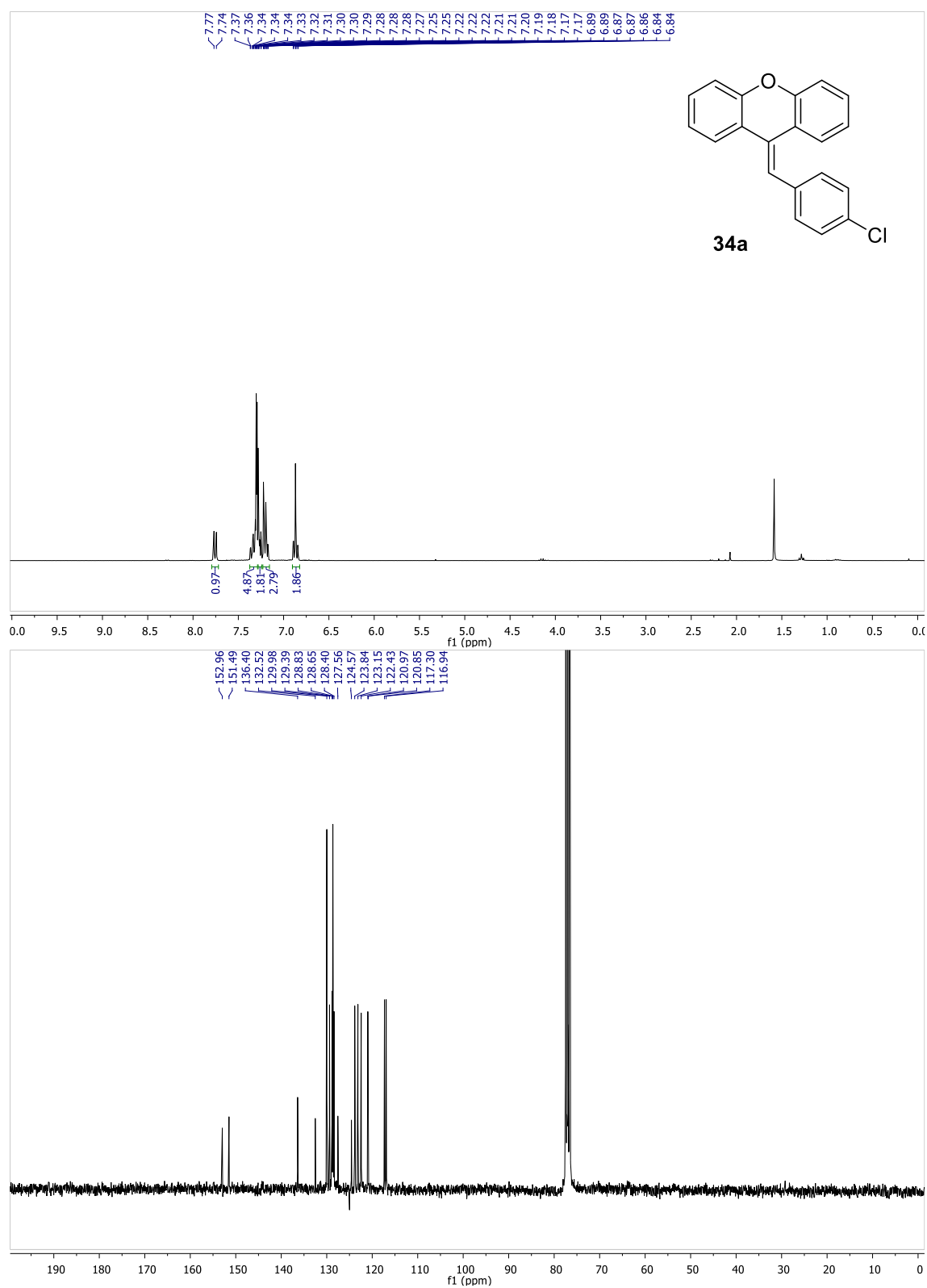
2-((9H-Fluoren-9-ylidene)methyl)furan (**31k**)



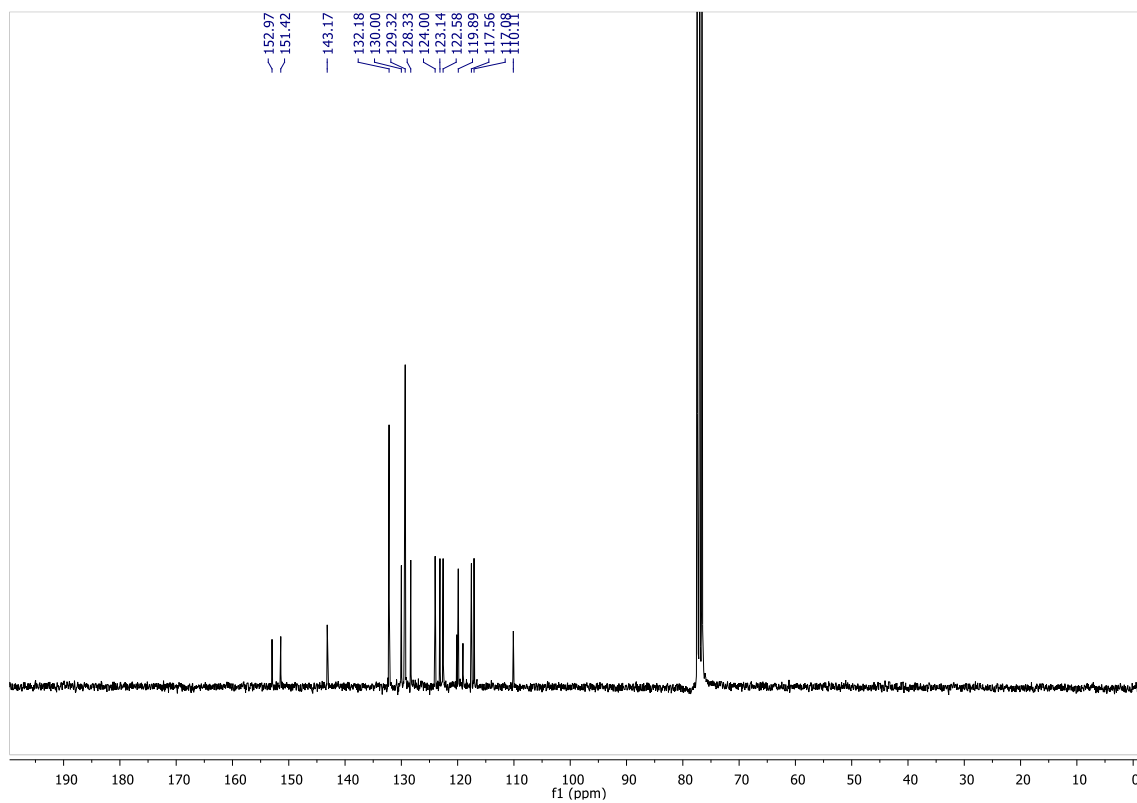
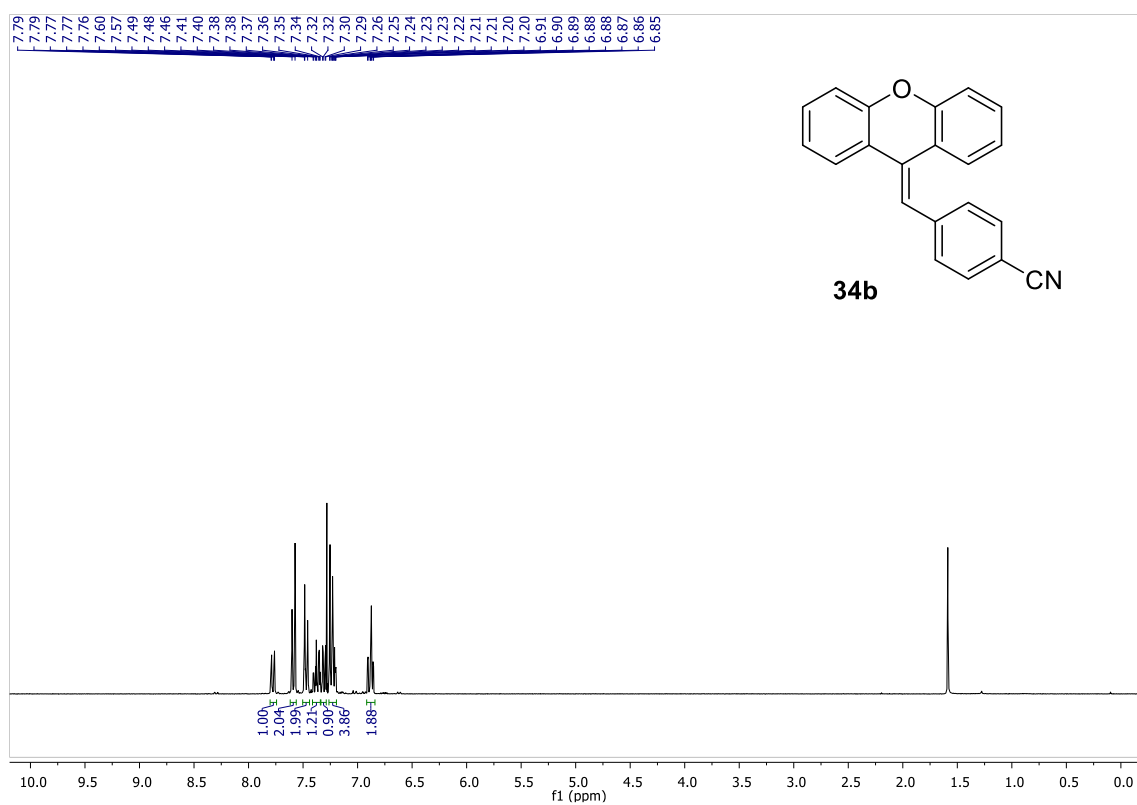
9-(1-(4-Methoxyphenyl)ethylidene)-9H-fluorene (31I)



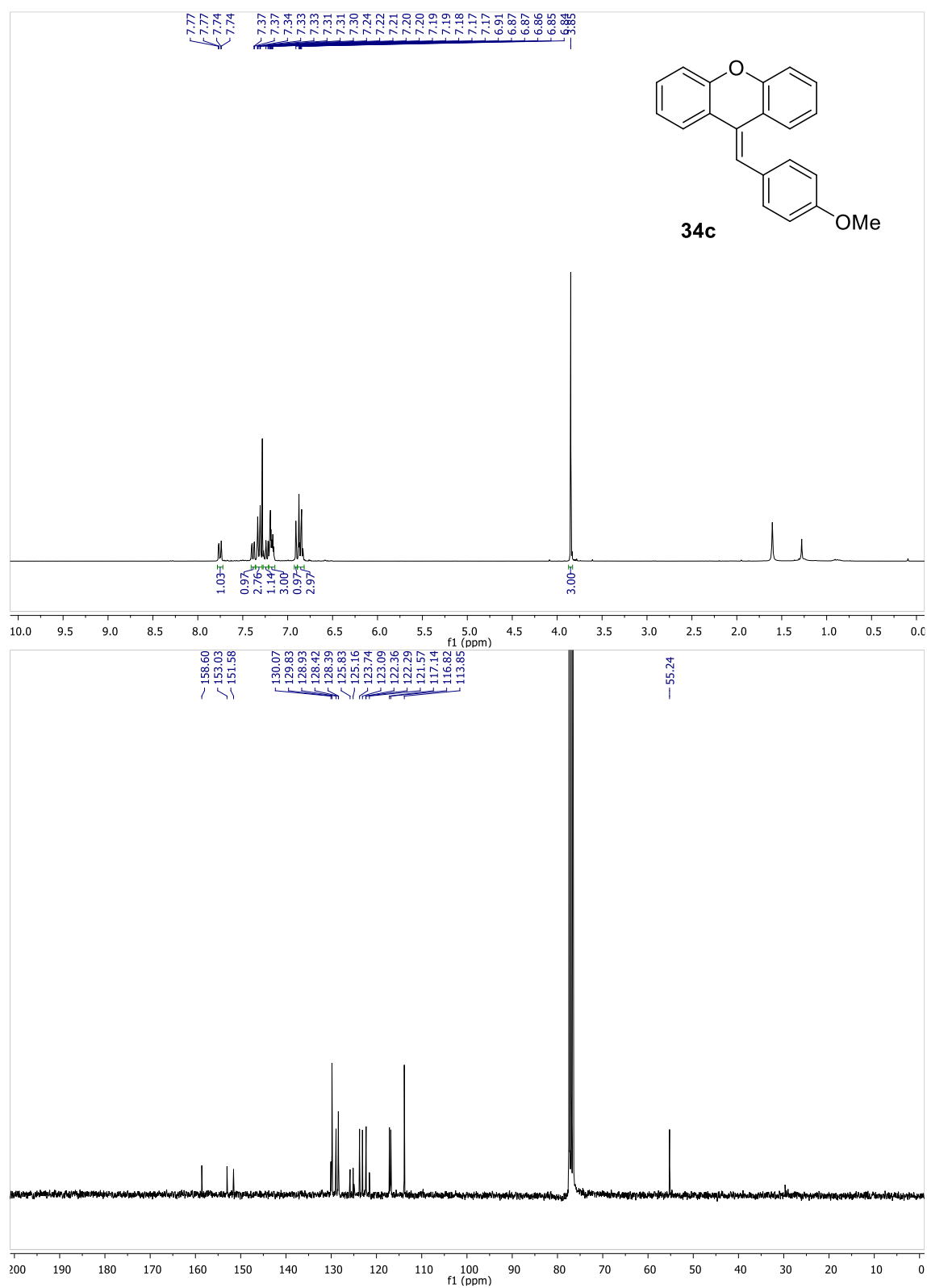
9-(4-Chlorobenzylidene)-9H-xanthene (34a)



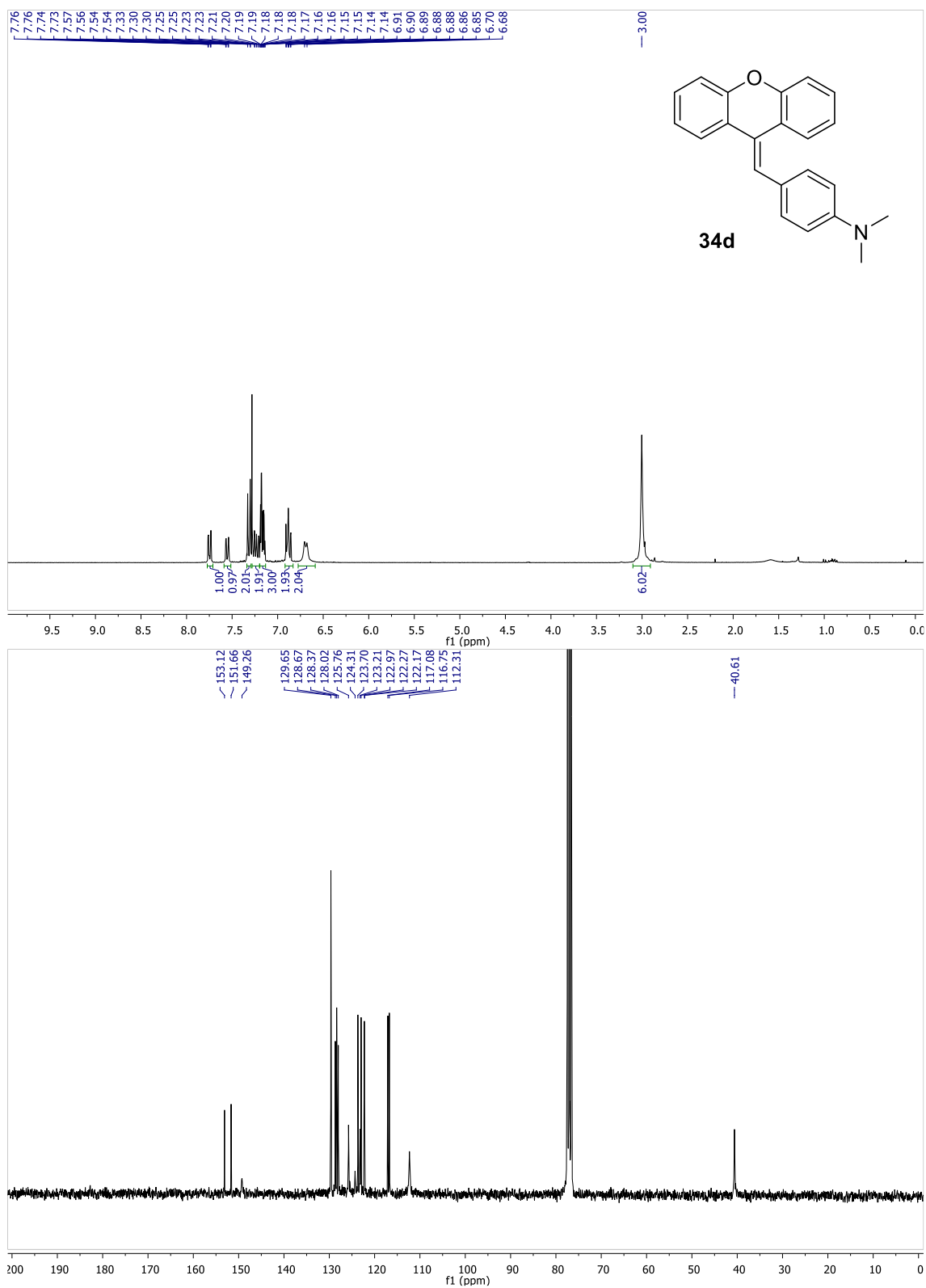
4-((9*H*-Xanthen-9-ylidene)methyl)benzonitrile (**34b**)



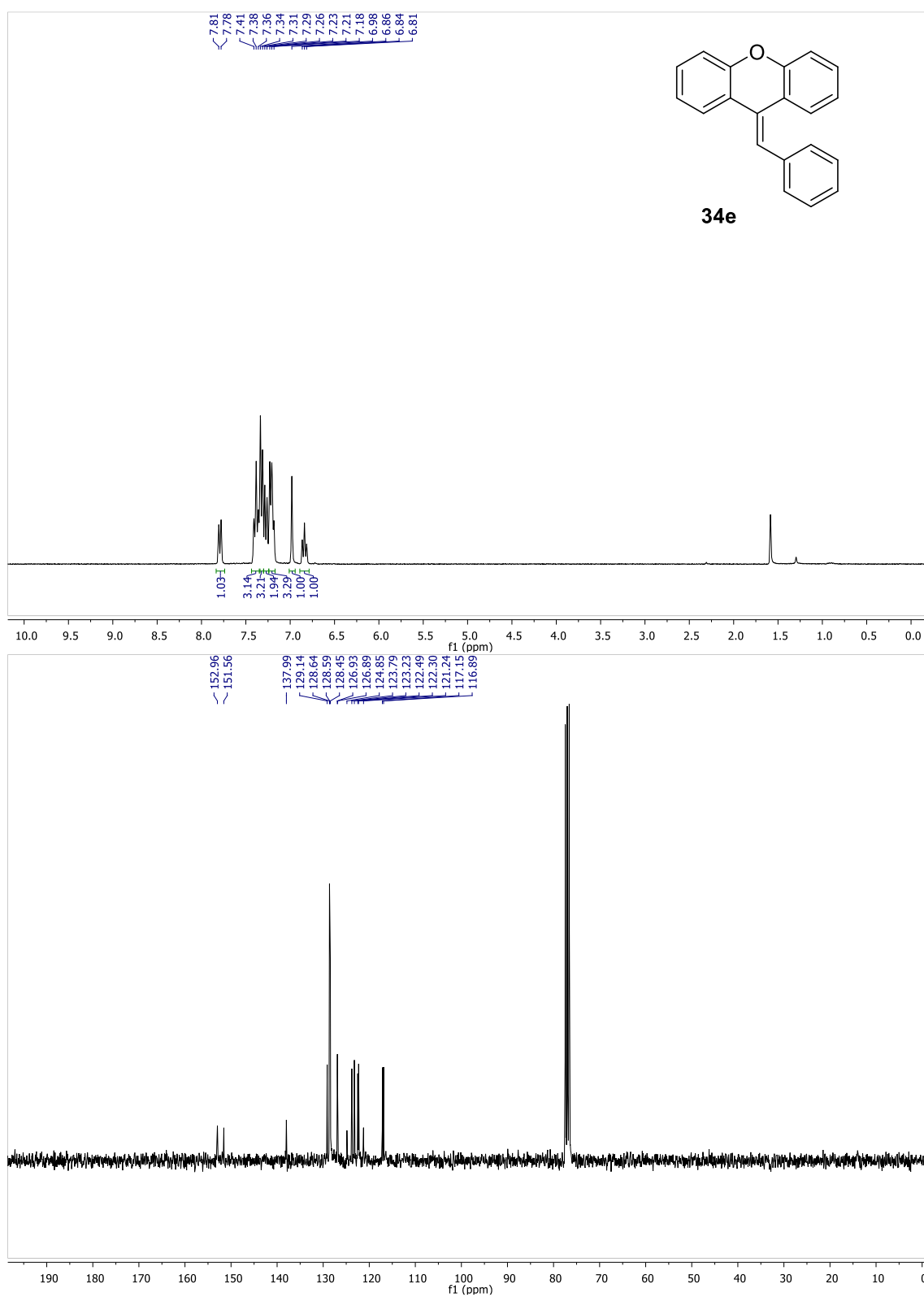
9-(4-Methoxybenzylidene)-9H-xanthene (34c)



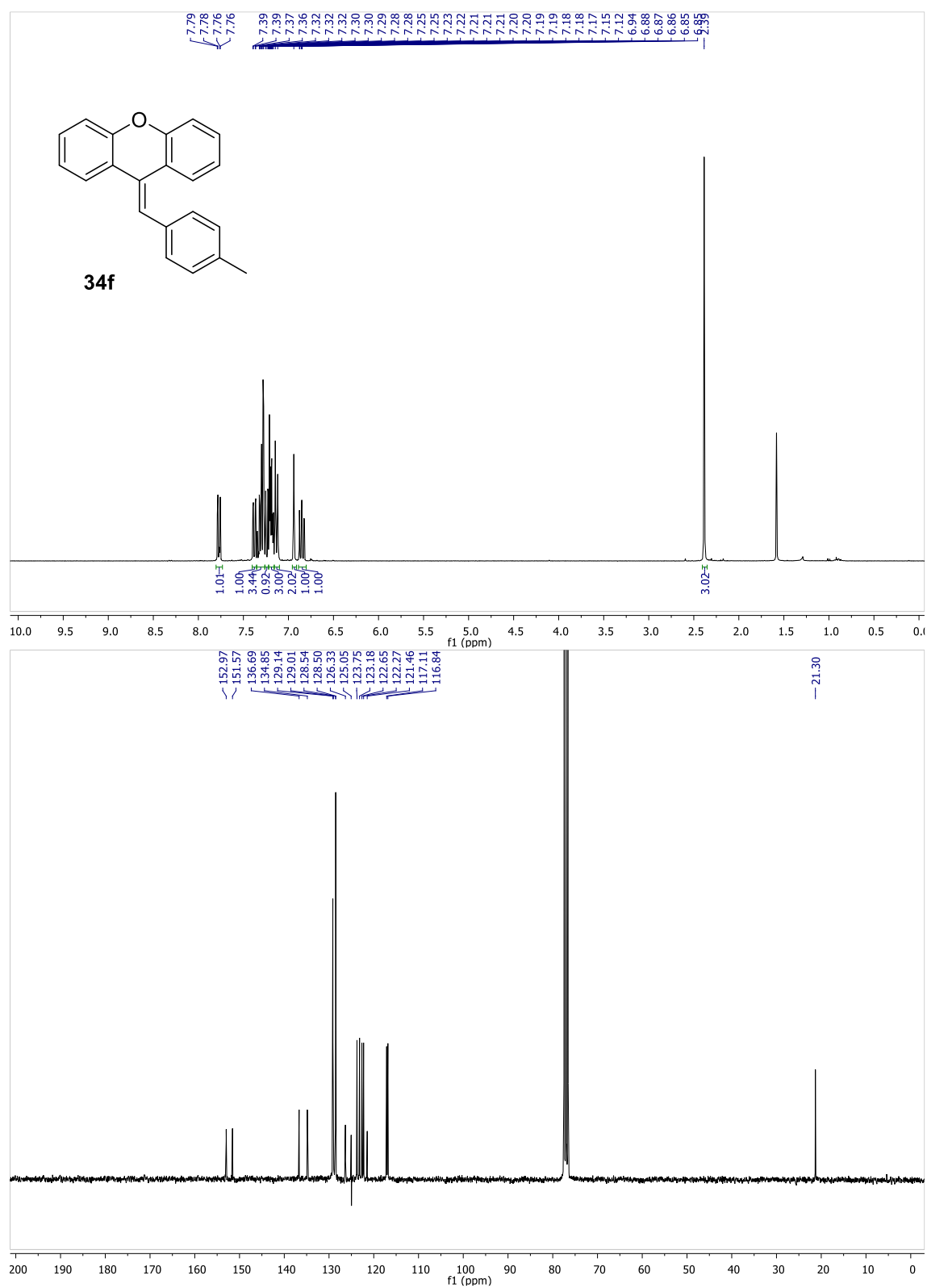
4-((9H-Xanthen-9-ylidene)methyl)-N,N-dimethylaniline (**34d**)



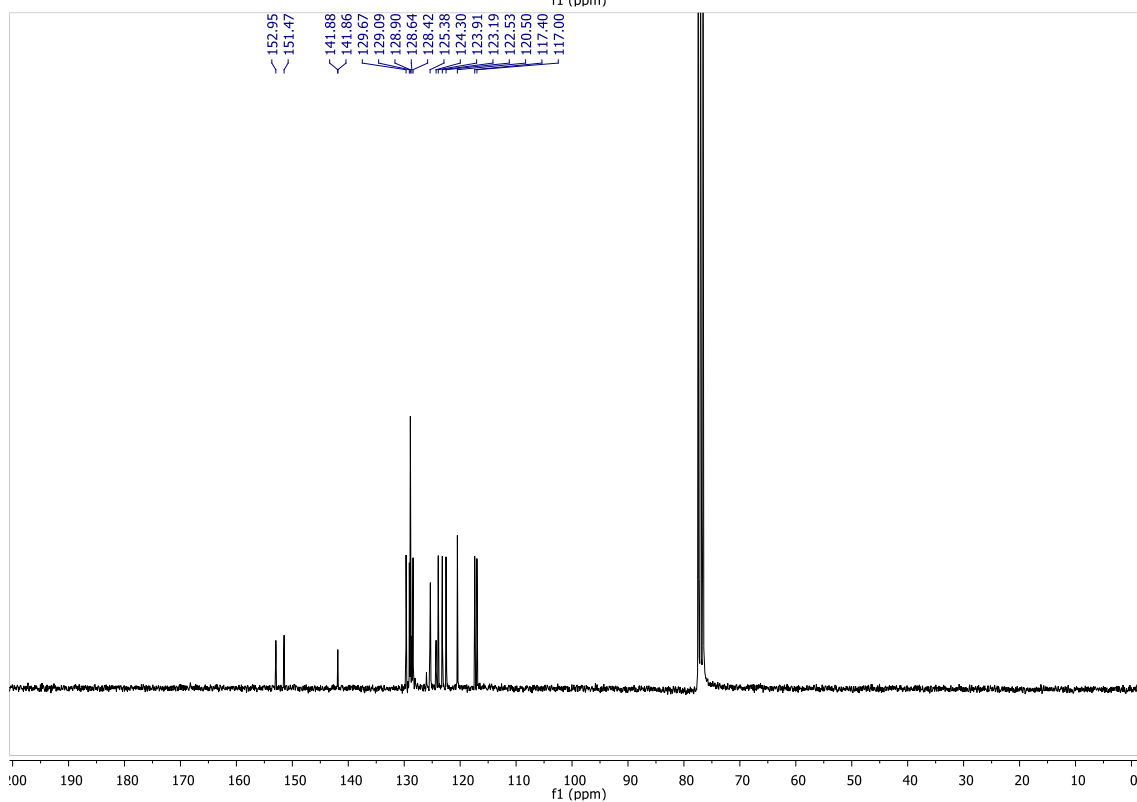
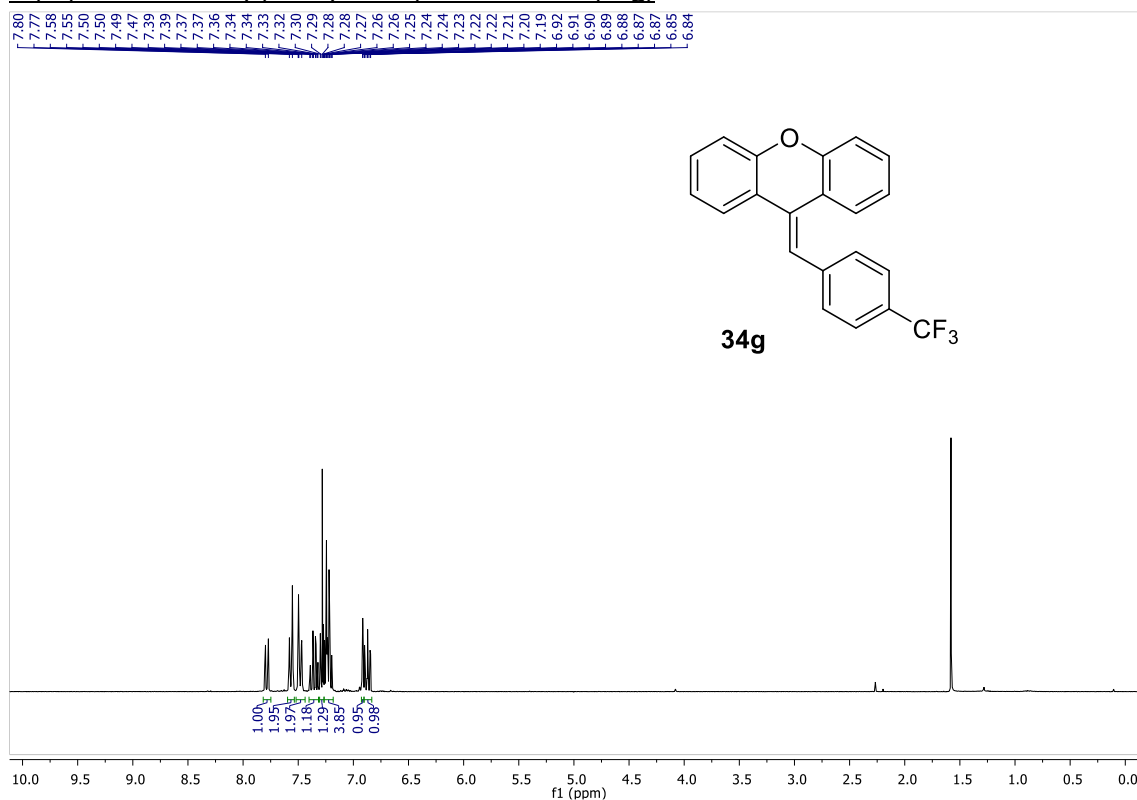
9-Benzylidene-9H-xanthene (**34e**)

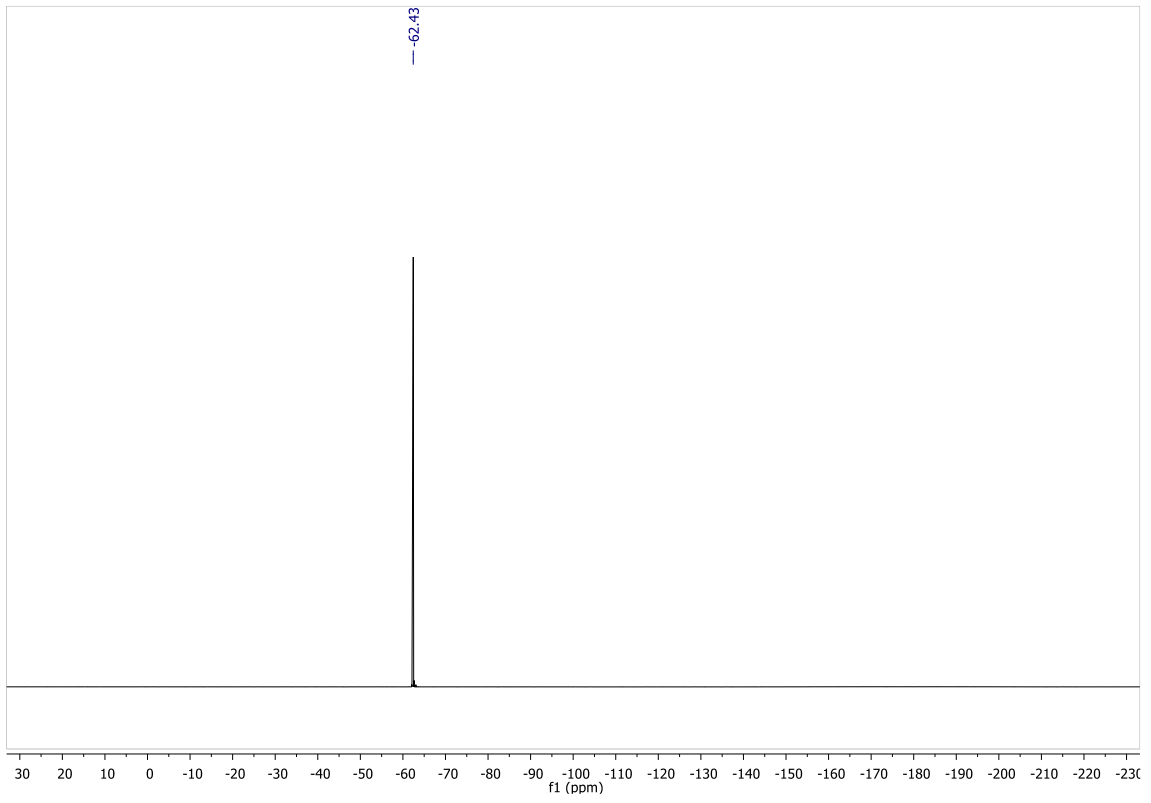


9-(4-Methylbenzylidene)-9H-xanthene (**34f**)

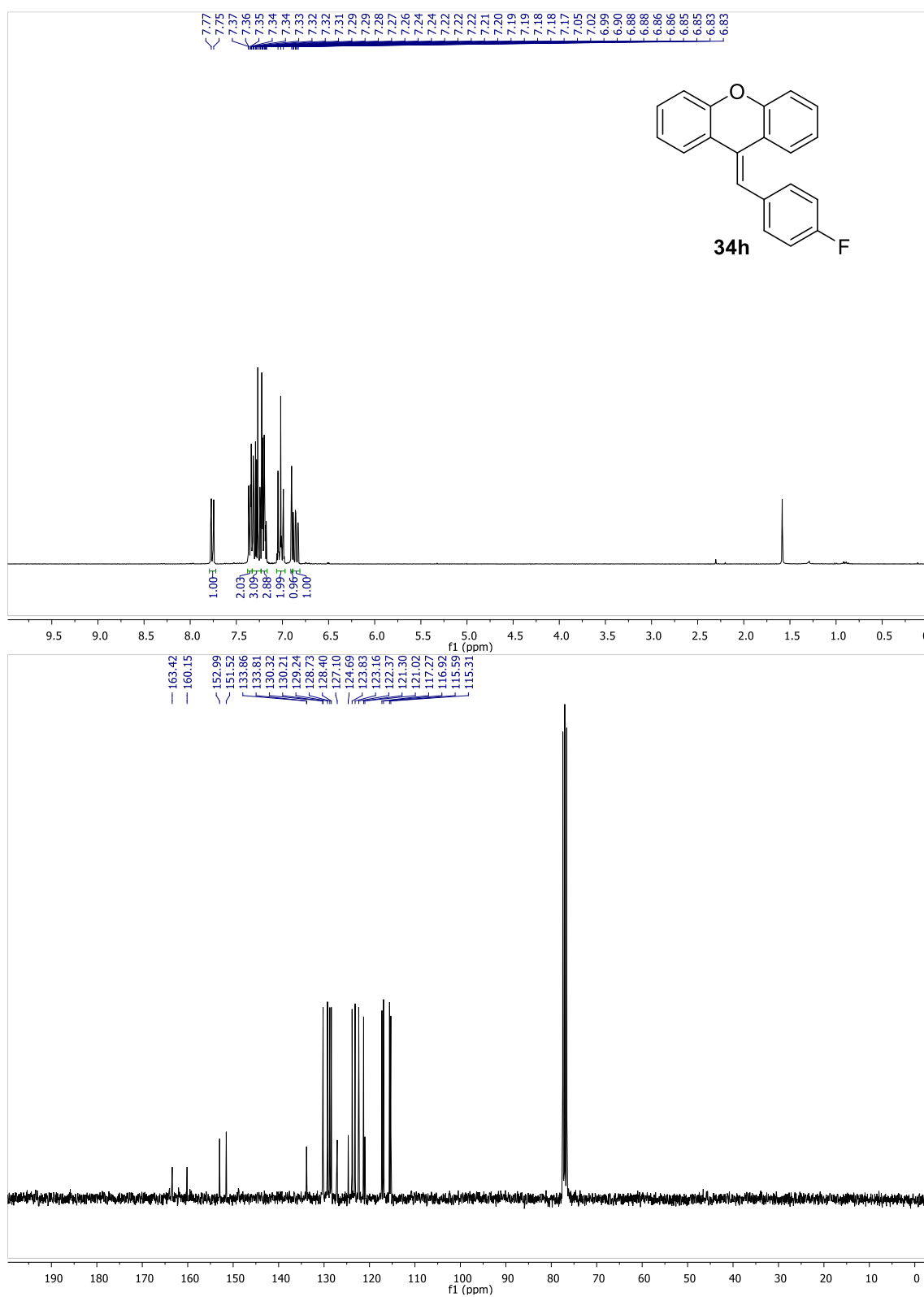


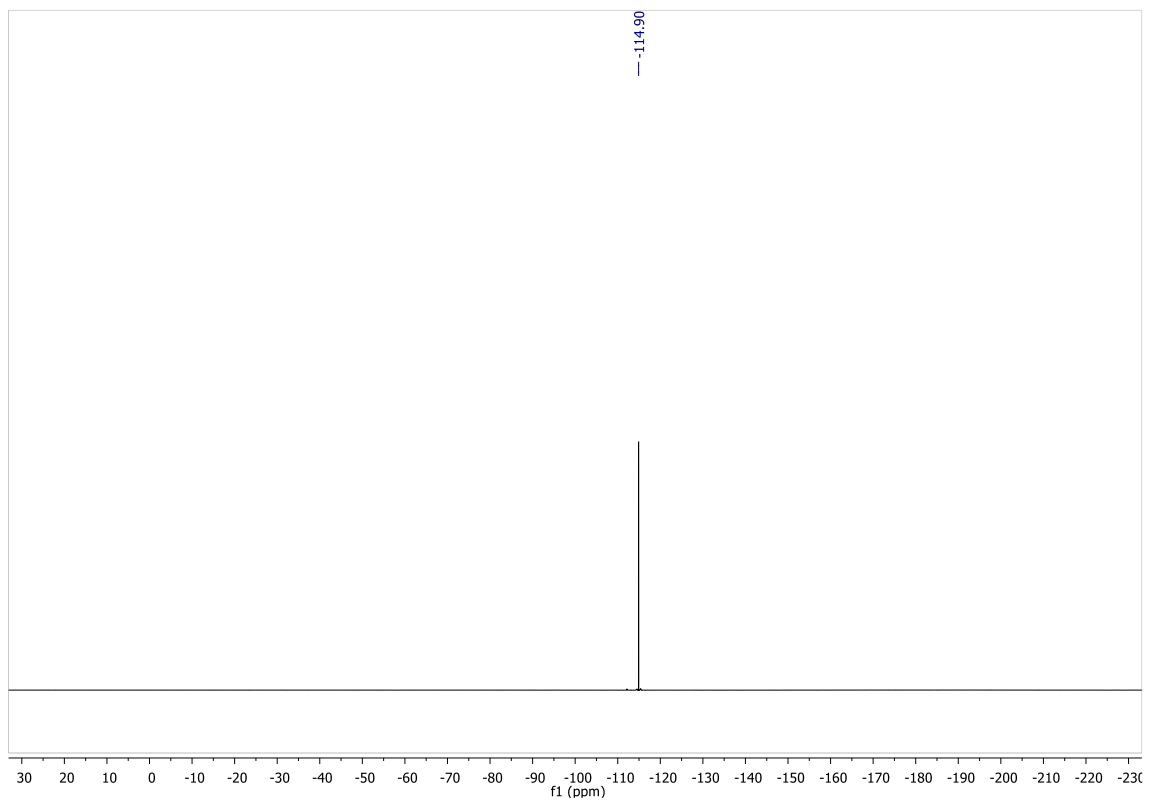
9-(4-(Trifluoromethyl)benzylidene)-9H-xanthene (34g)



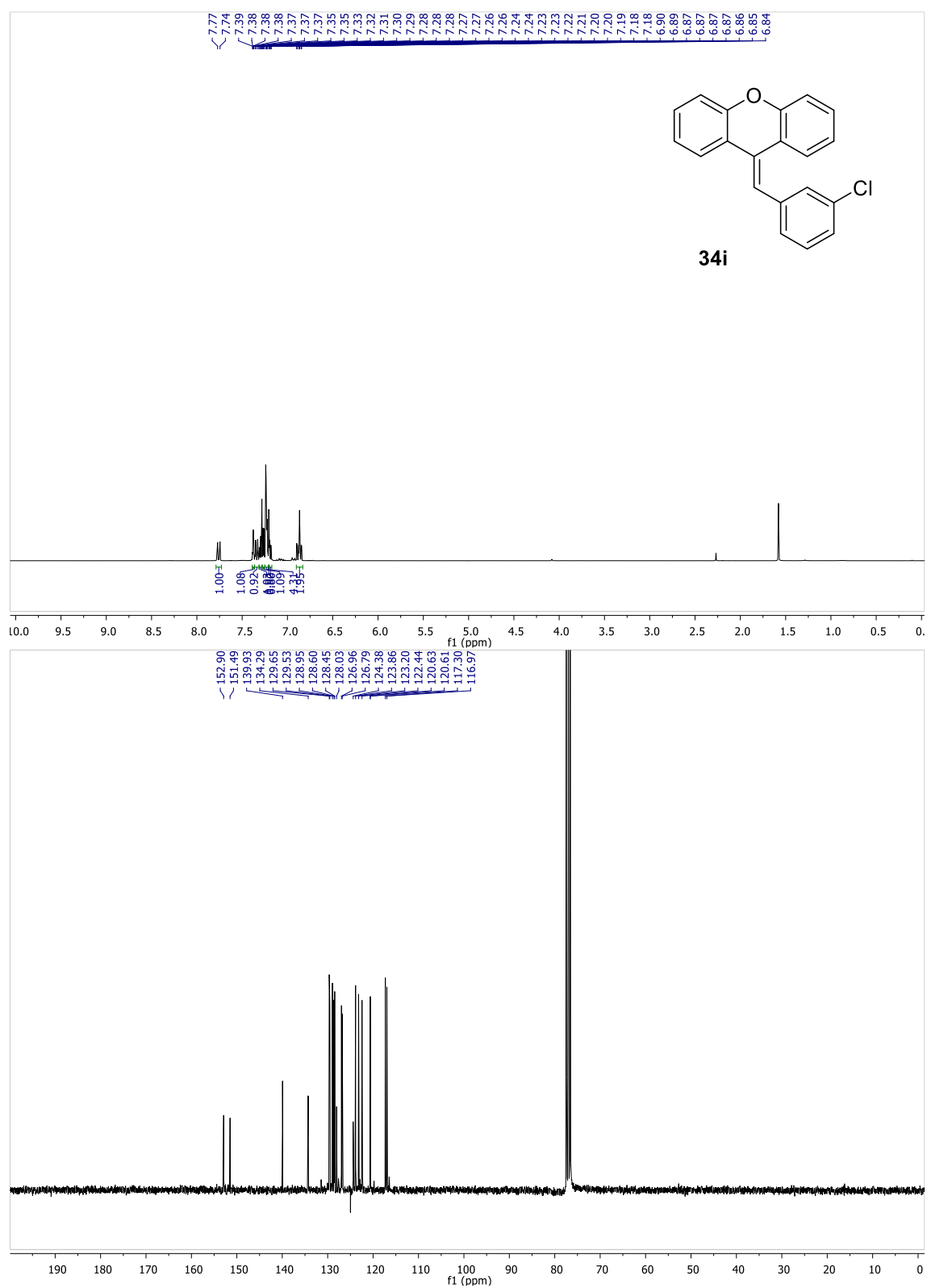


9-(4-Fluorobenzylidene)-9H-xanthene (34h)

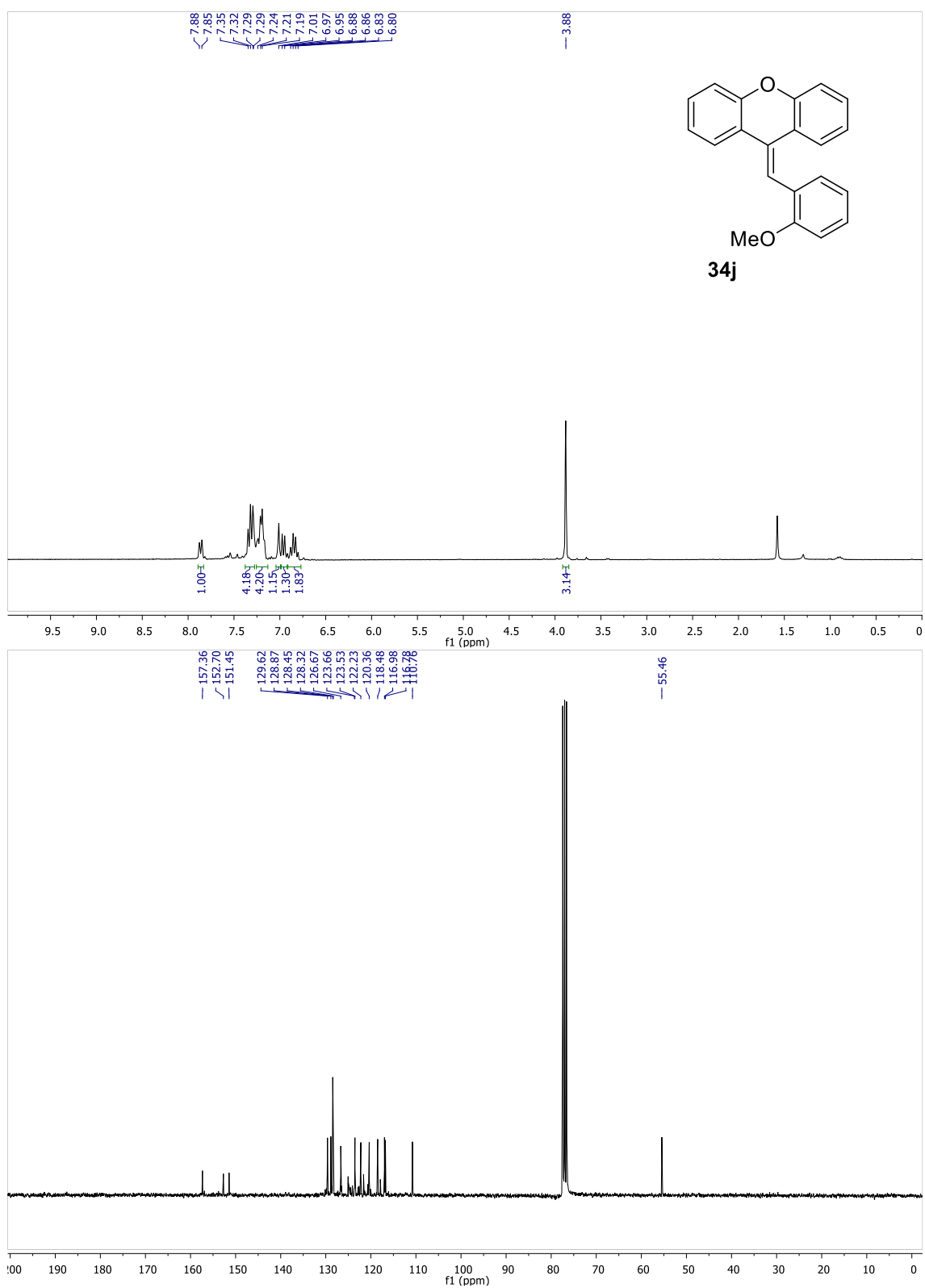




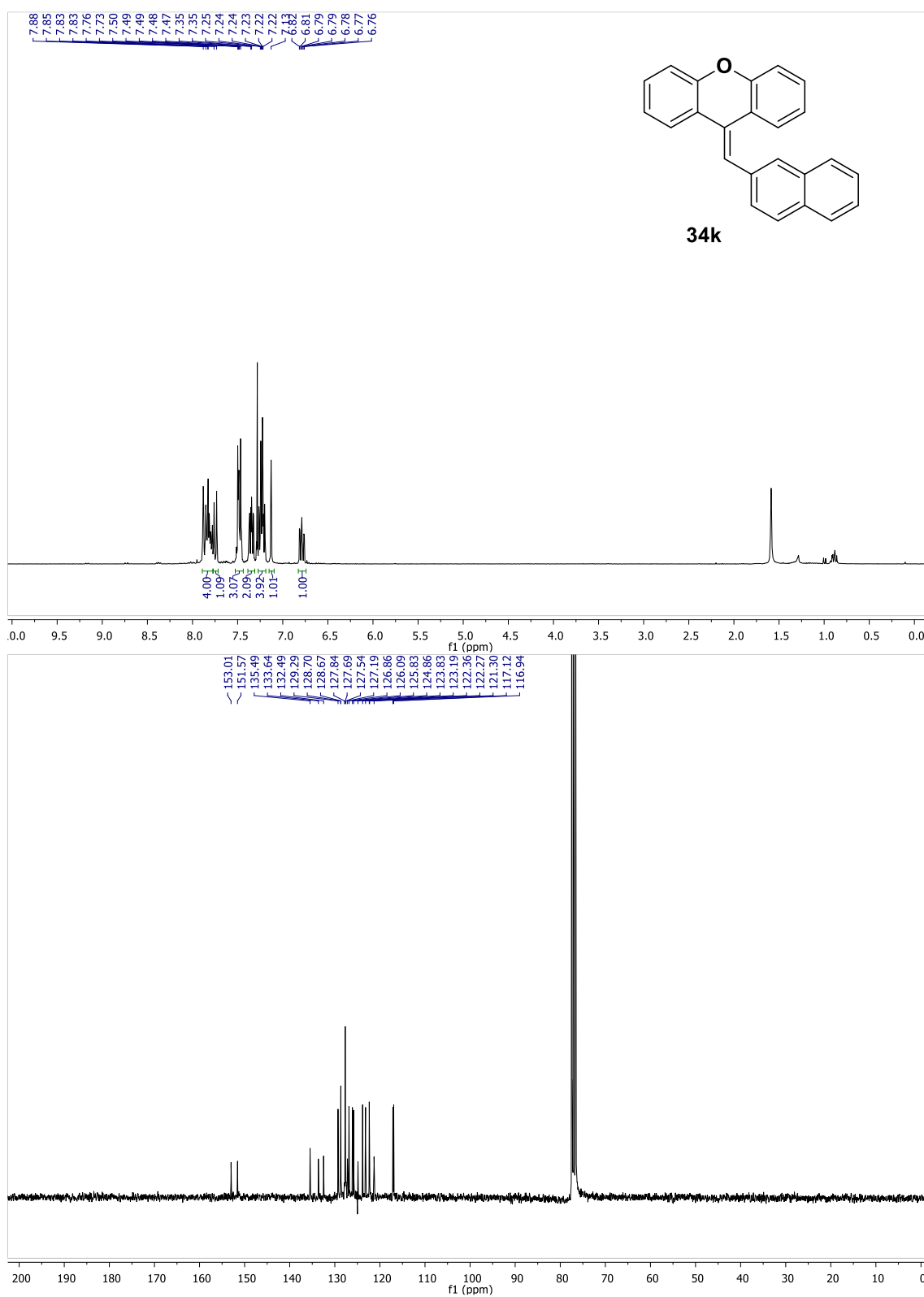
9-(3-Chlorobenzylidene)-9H-xanthene (34i)



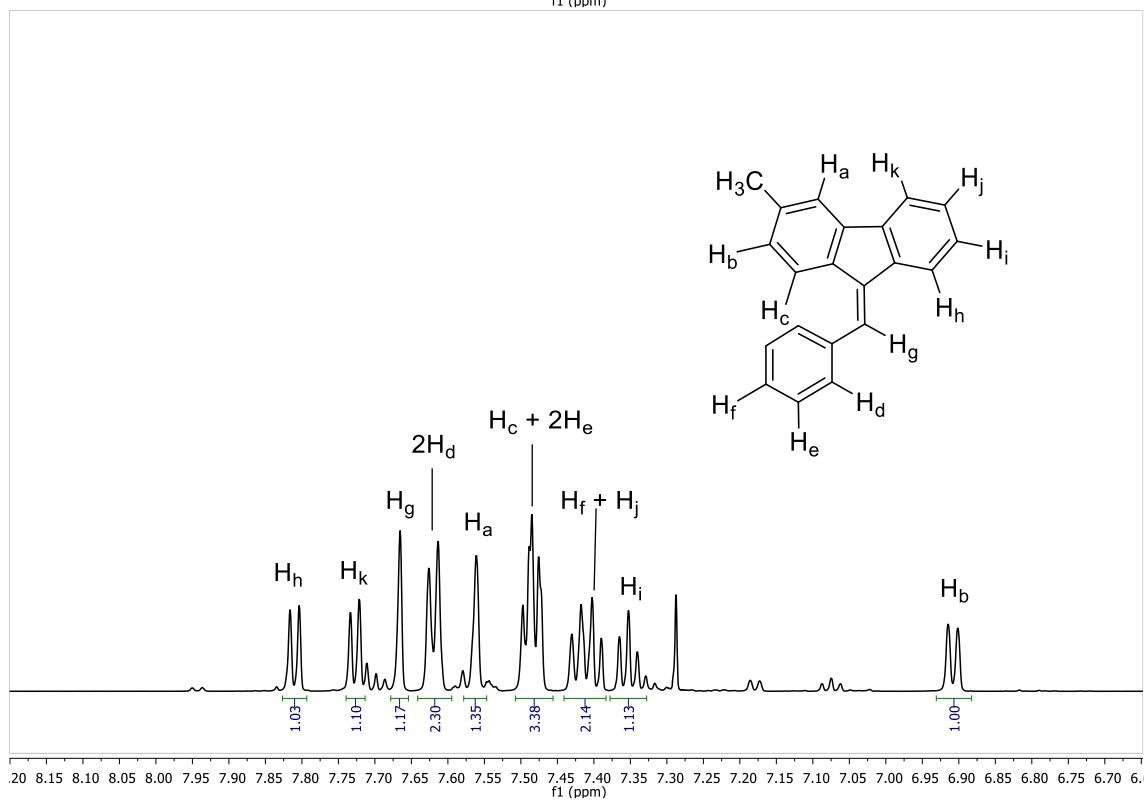
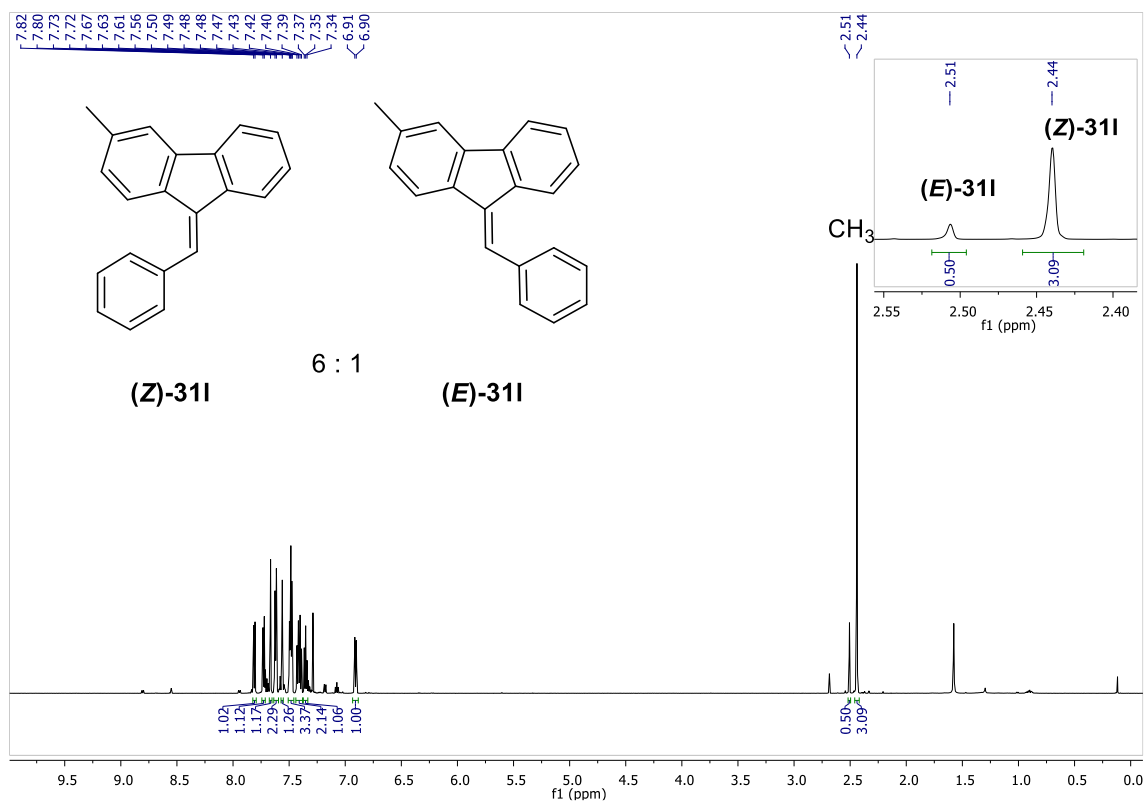
9-(2-Methoxybenzylidene)-9H-xanthene (**34j**)

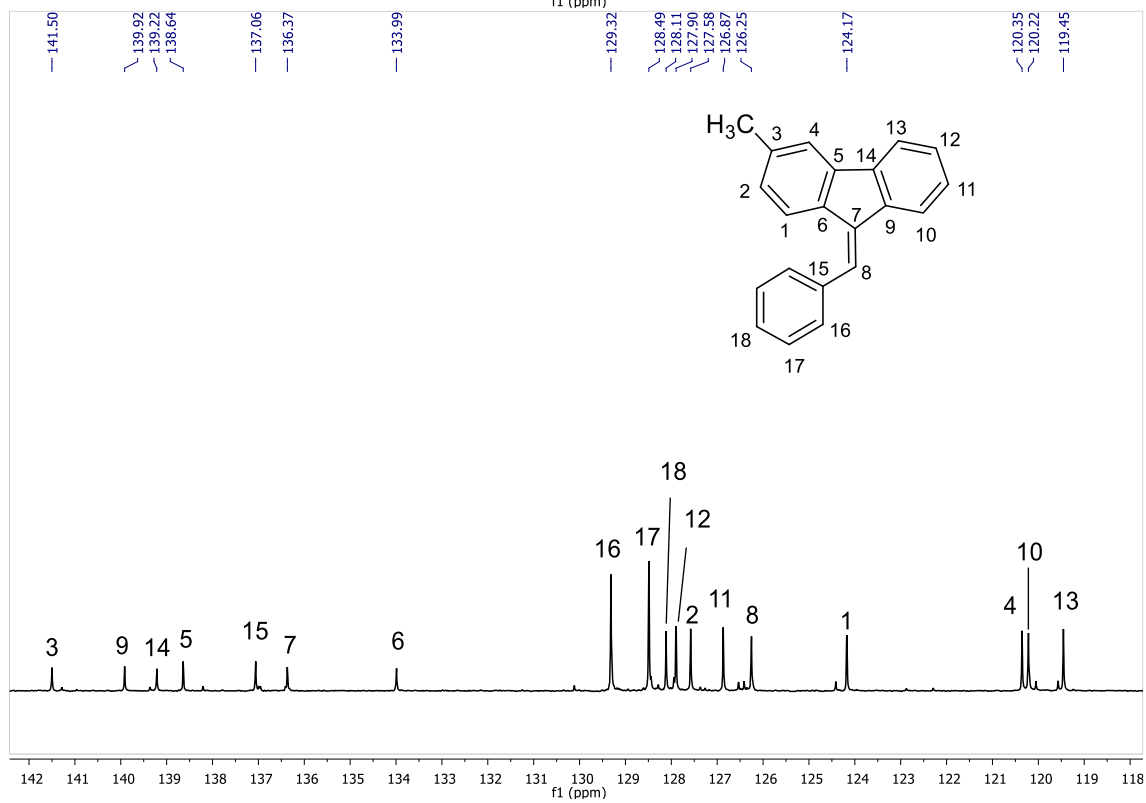
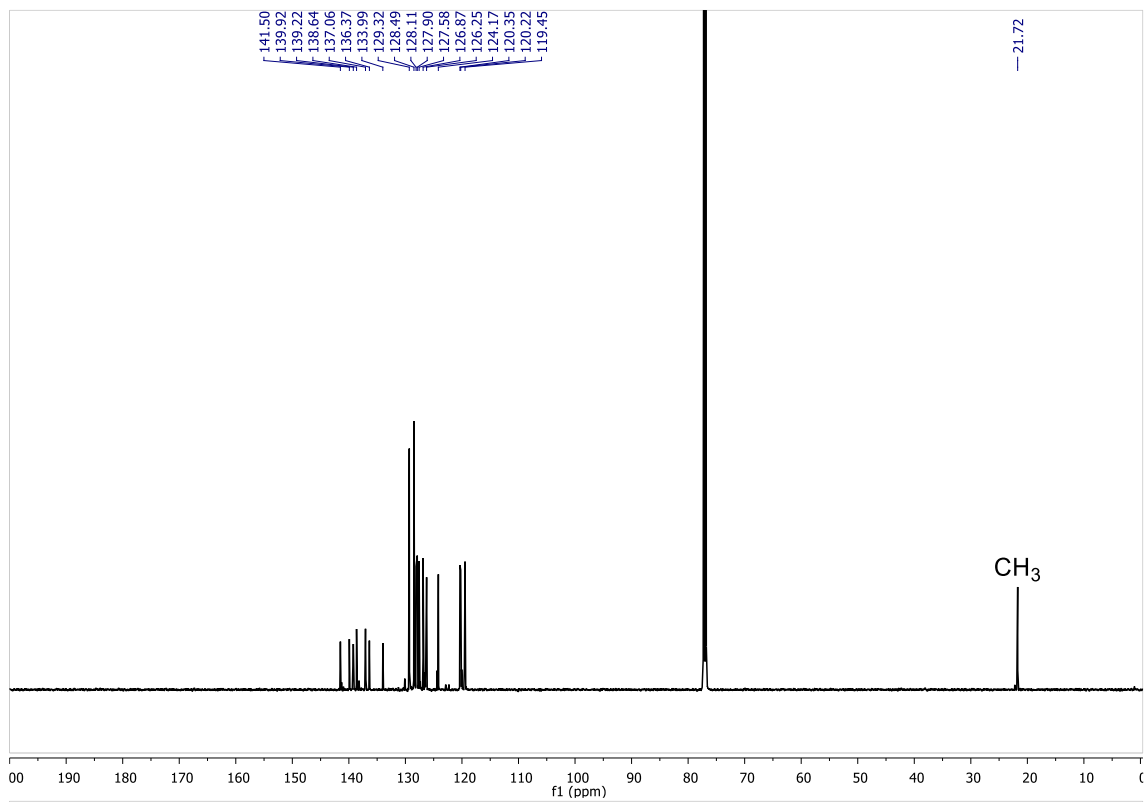


9-(Naphthalen-2-ylmethylene)-9H-xanthene (**34k**)

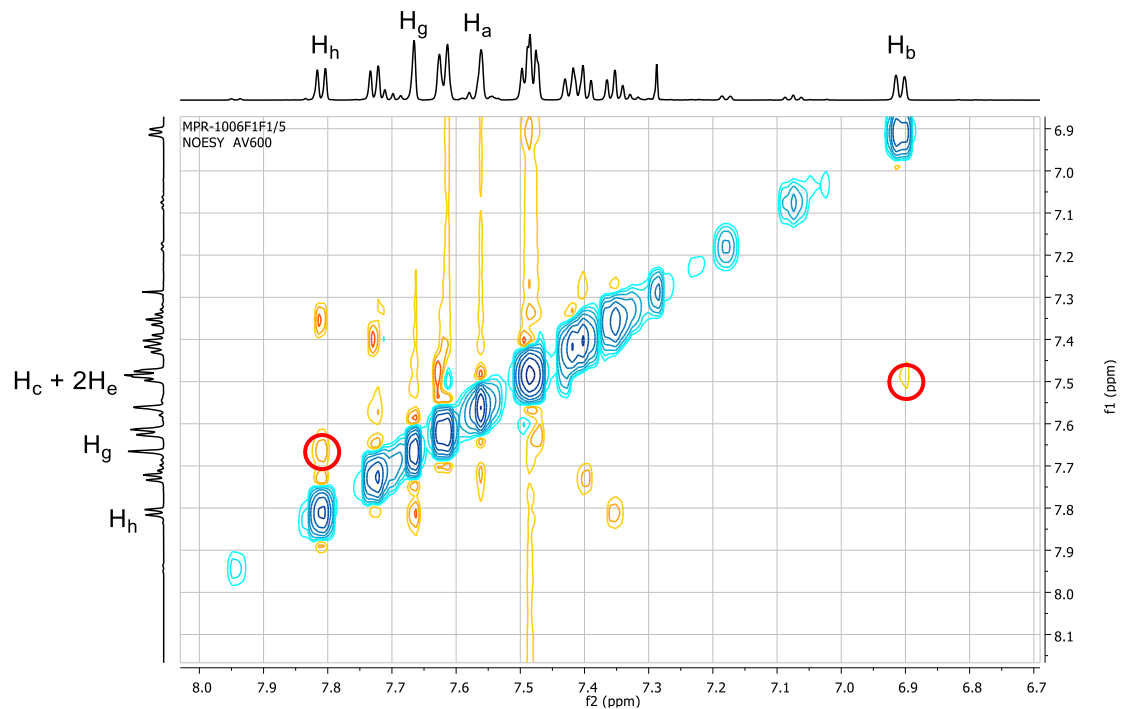
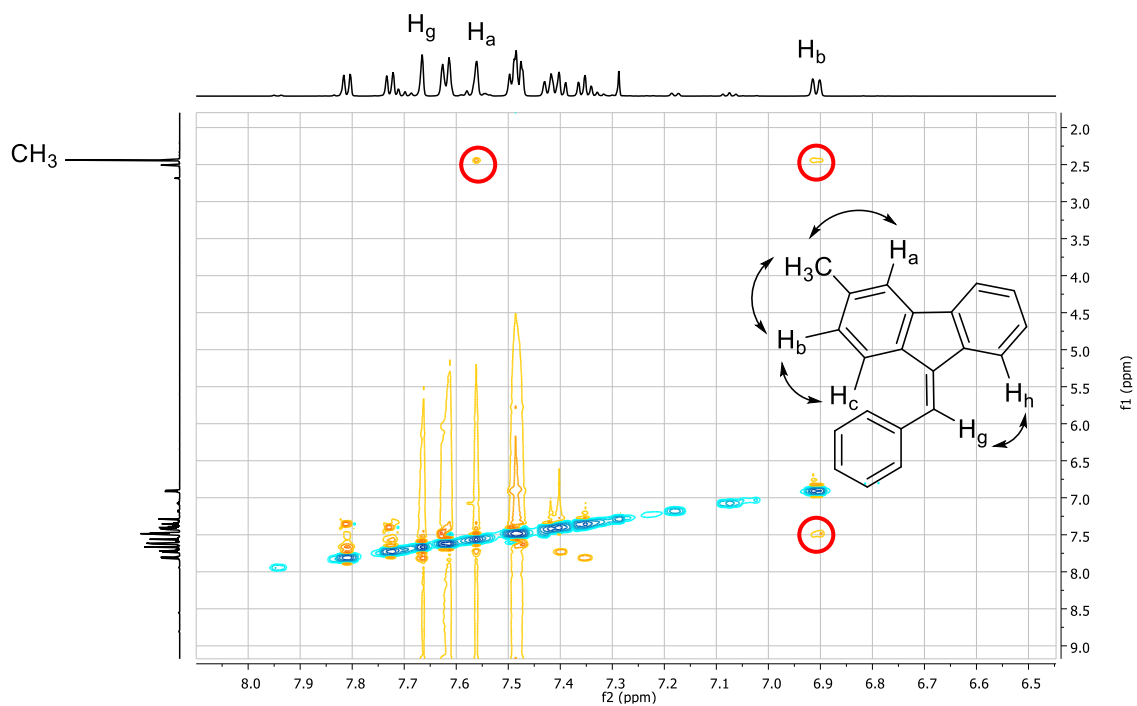


9-Benzylidene-3-methyl-9H-fluorene (**31**) (*Z*)/(*E*), 6:1

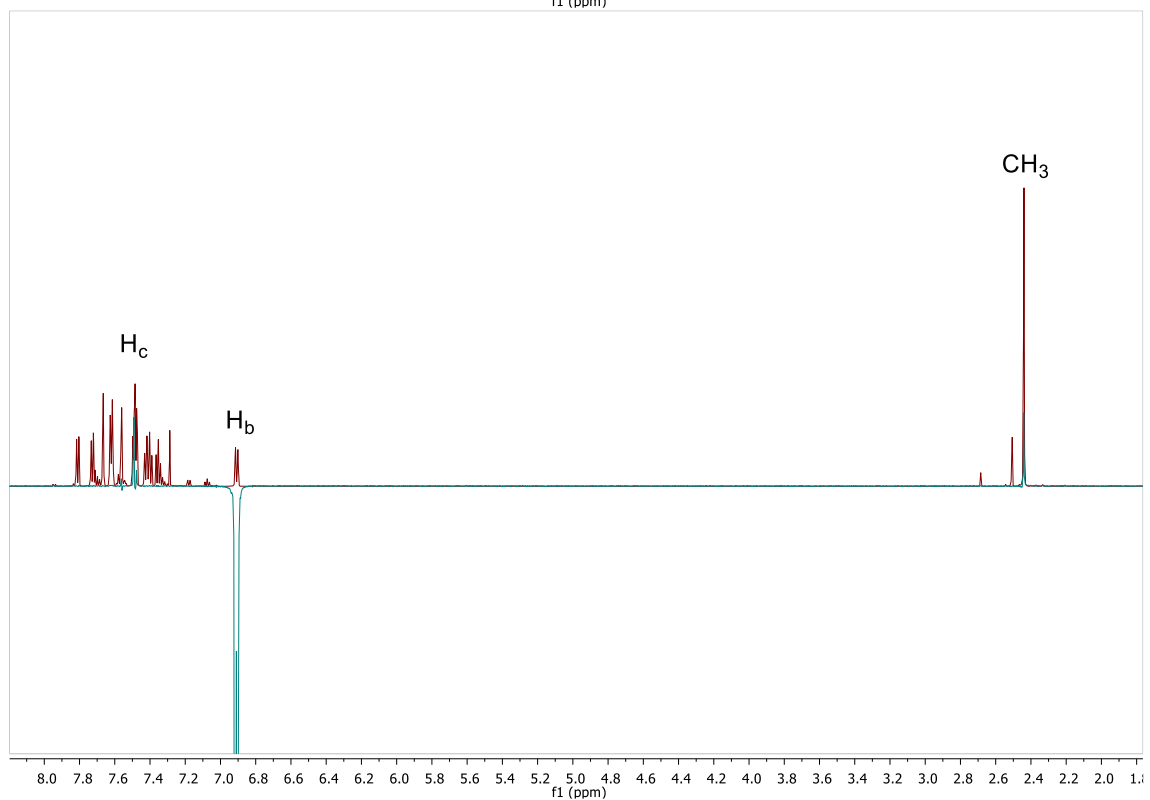
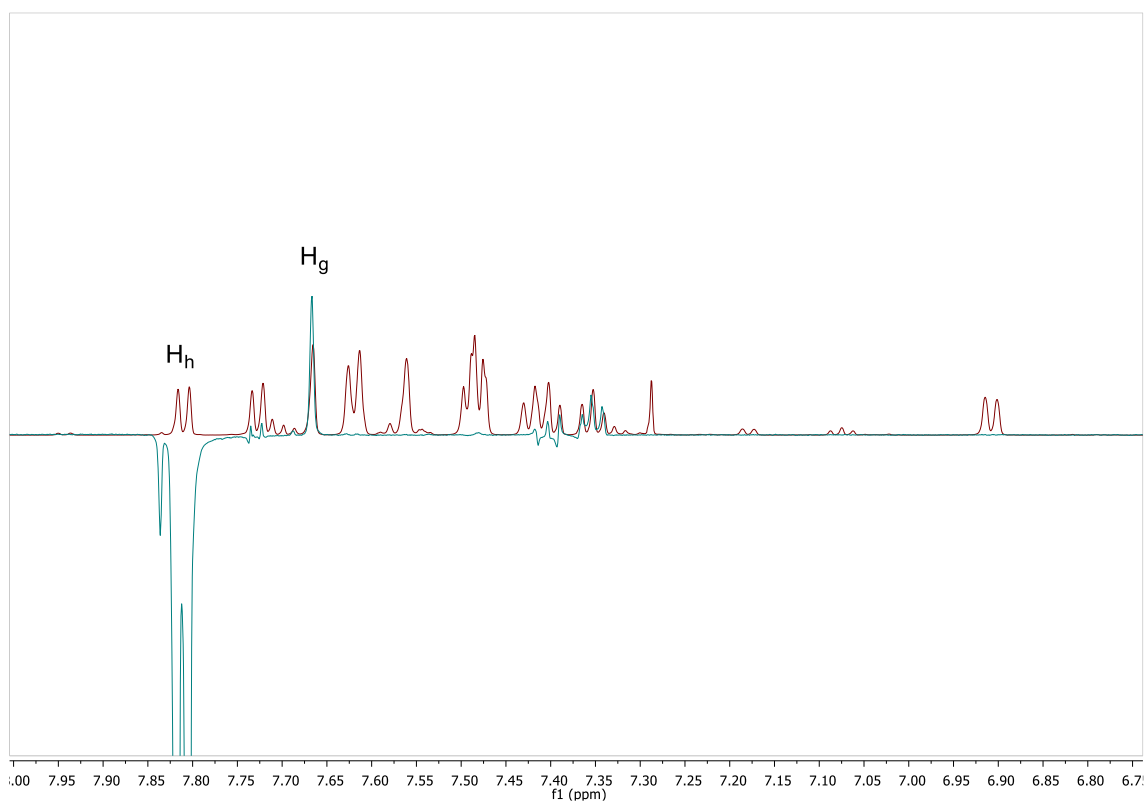


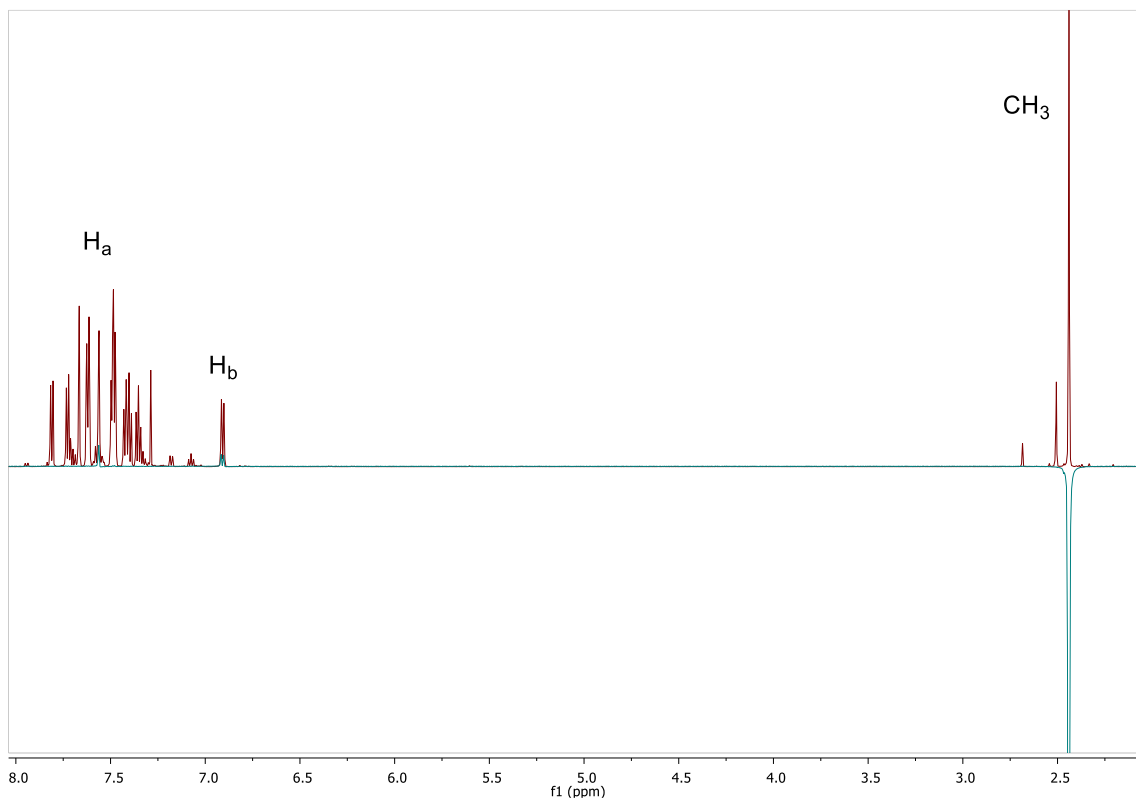


NOESY

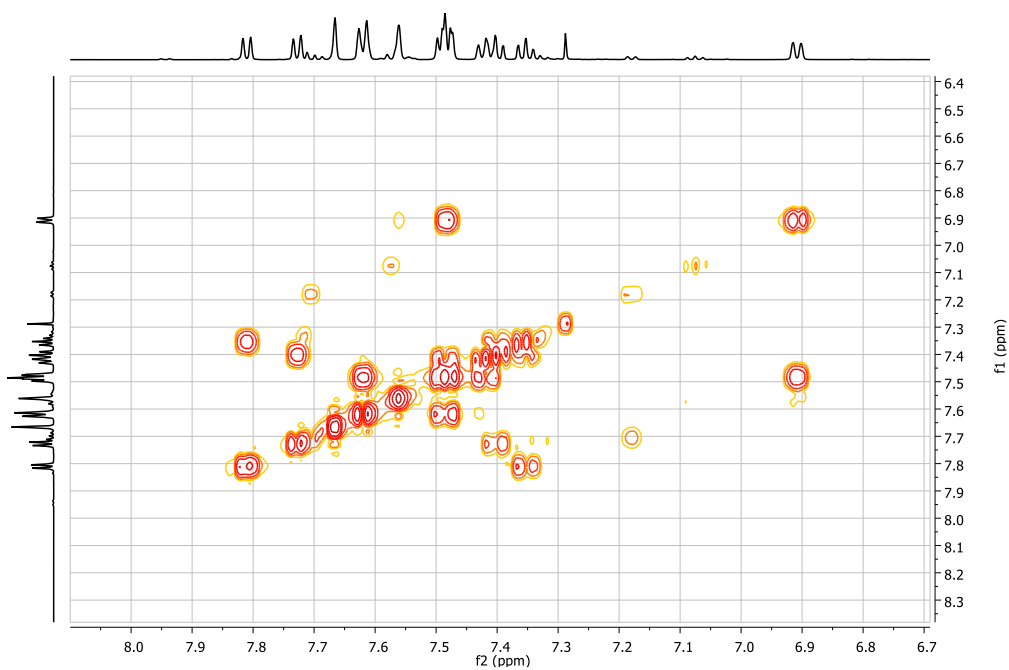


Selective NOE

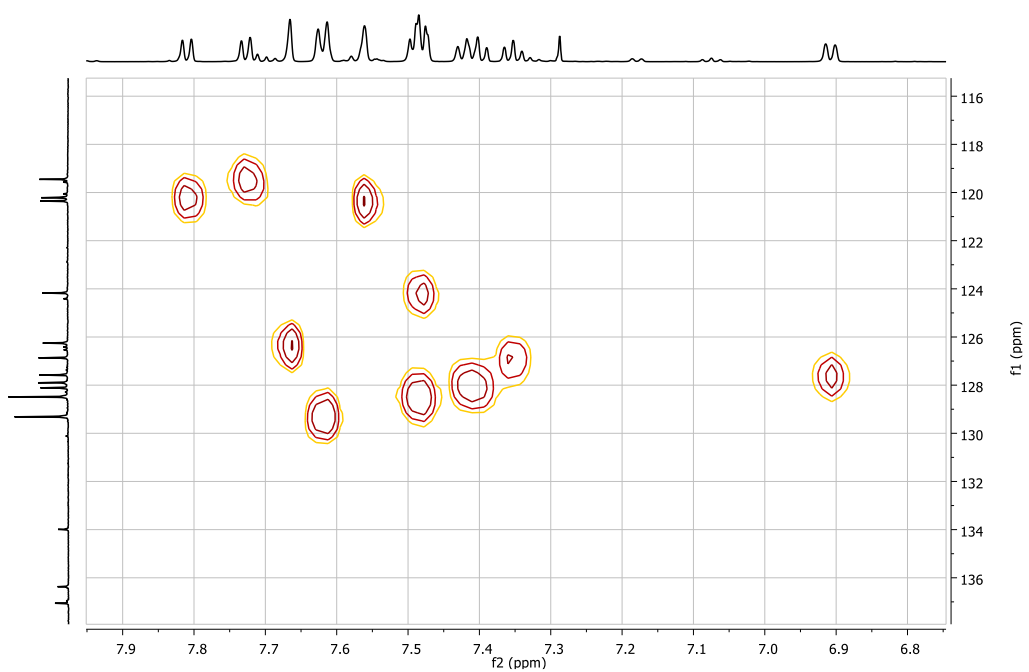
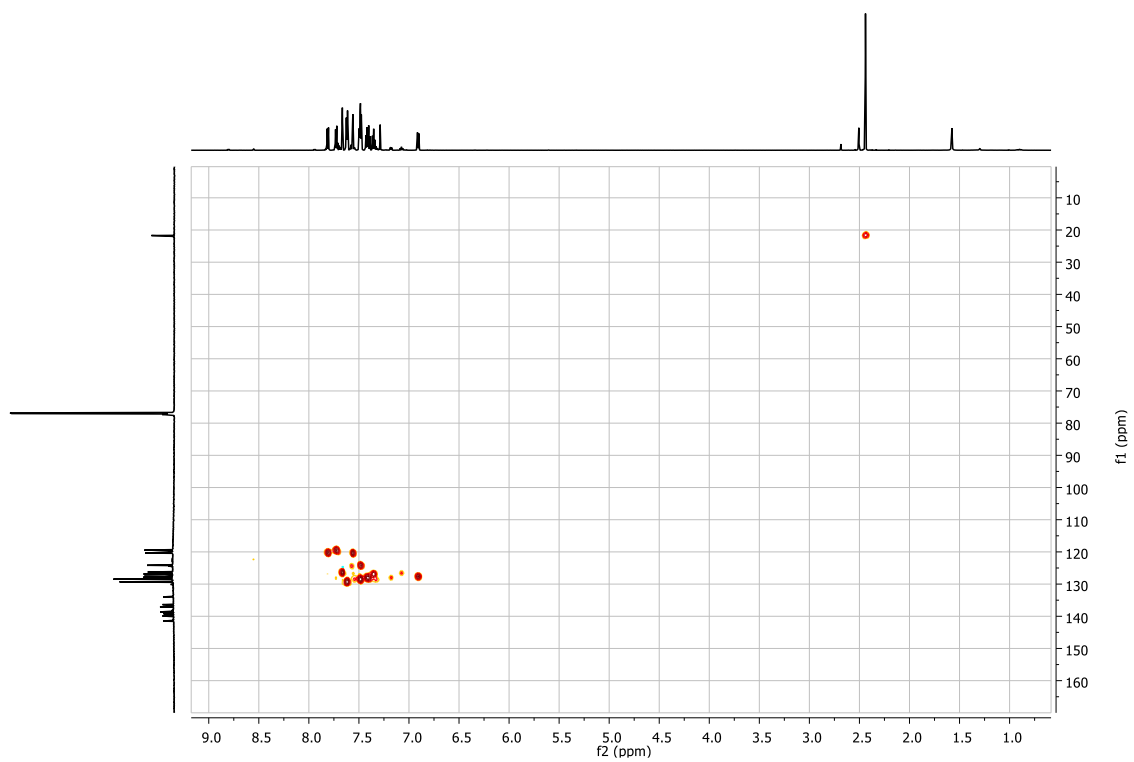




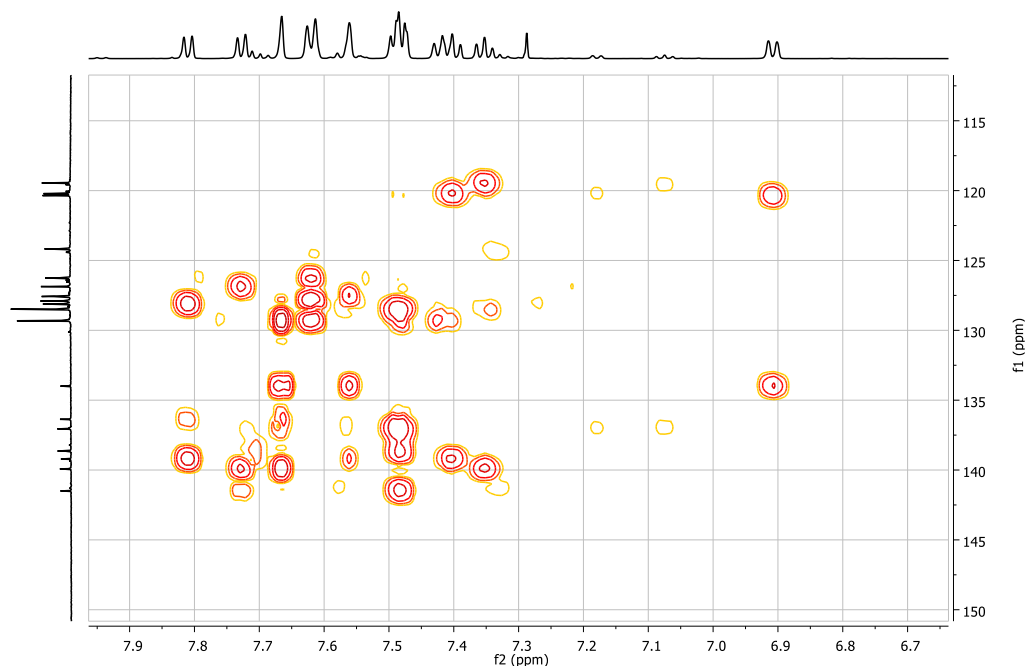
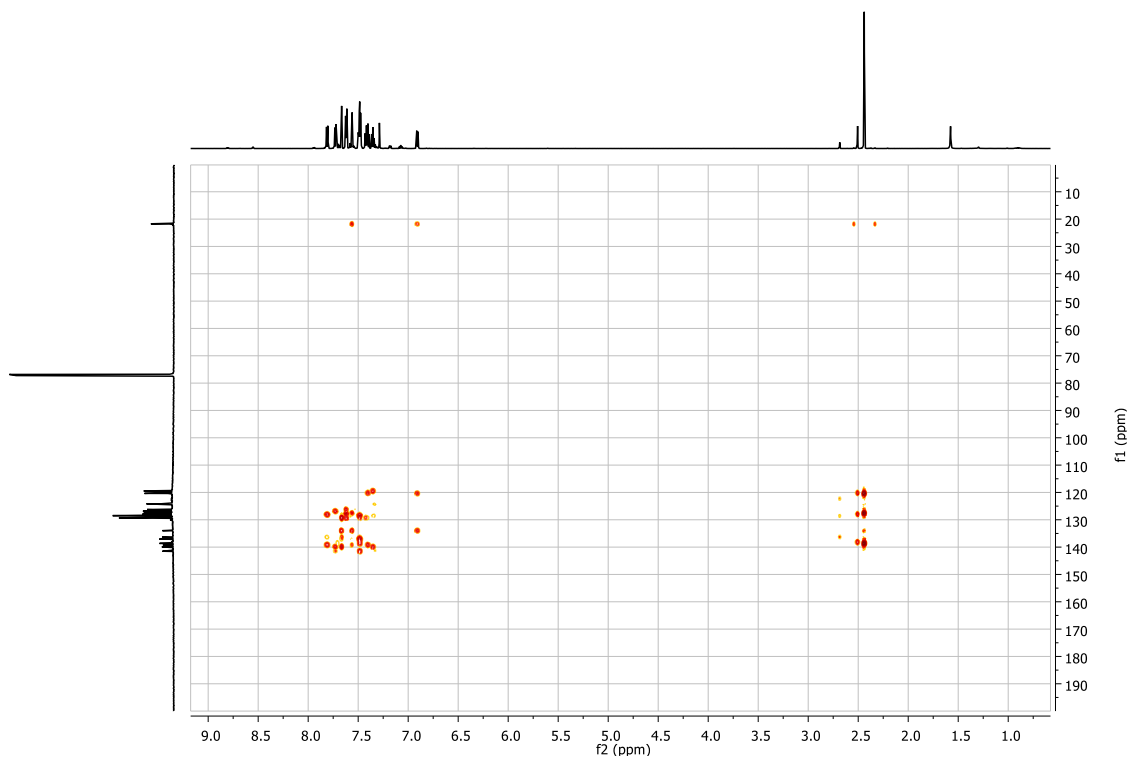
COSY



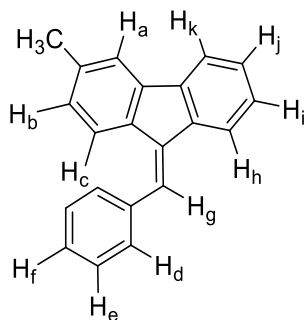
HSQC



HMBC



The proposal of the stereochemistry of the (*Z*)-isomer as the major diastereoisomer is supported by the 2D NMR experiments presented above.



Some representative signals from NOESY and Selective NOE experiments:

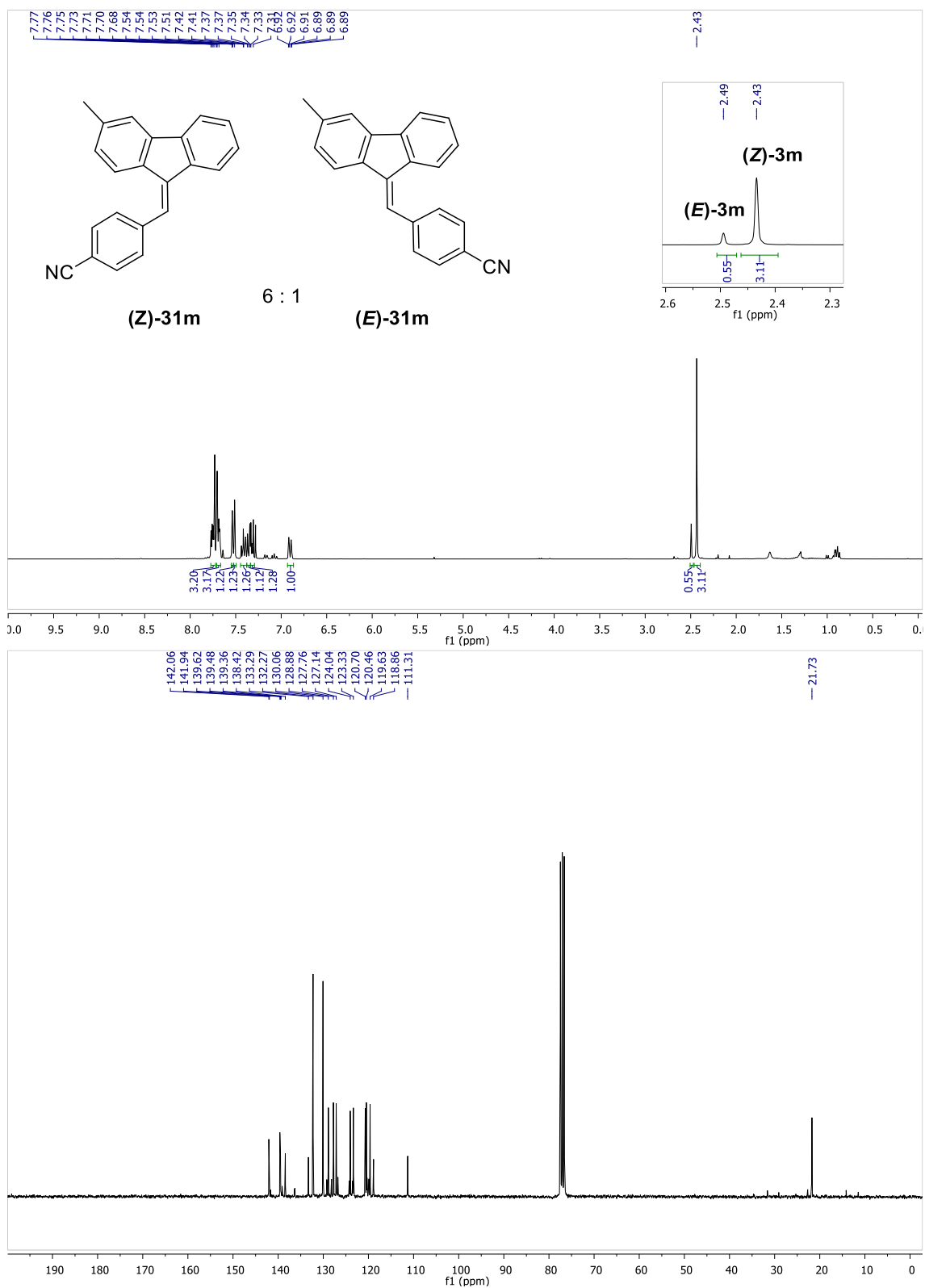
Cross-peaks between CH₃ (2.44 ppm) and H_a (7.56 ppm) and H_b (6.90 ppm) respectively.

Cross-peaks between H_b (6.90 ppm) and CH₃ (2.44 ppm) and H_c (7.49 ppm) respectively.

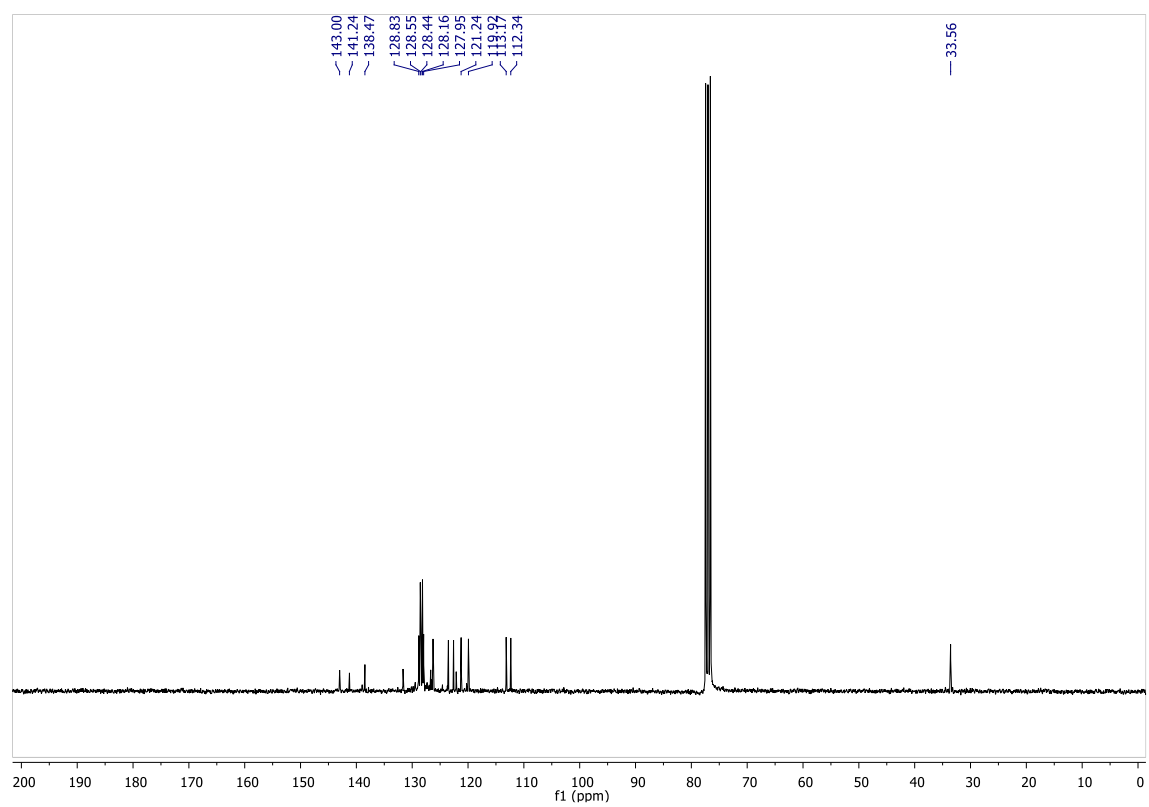
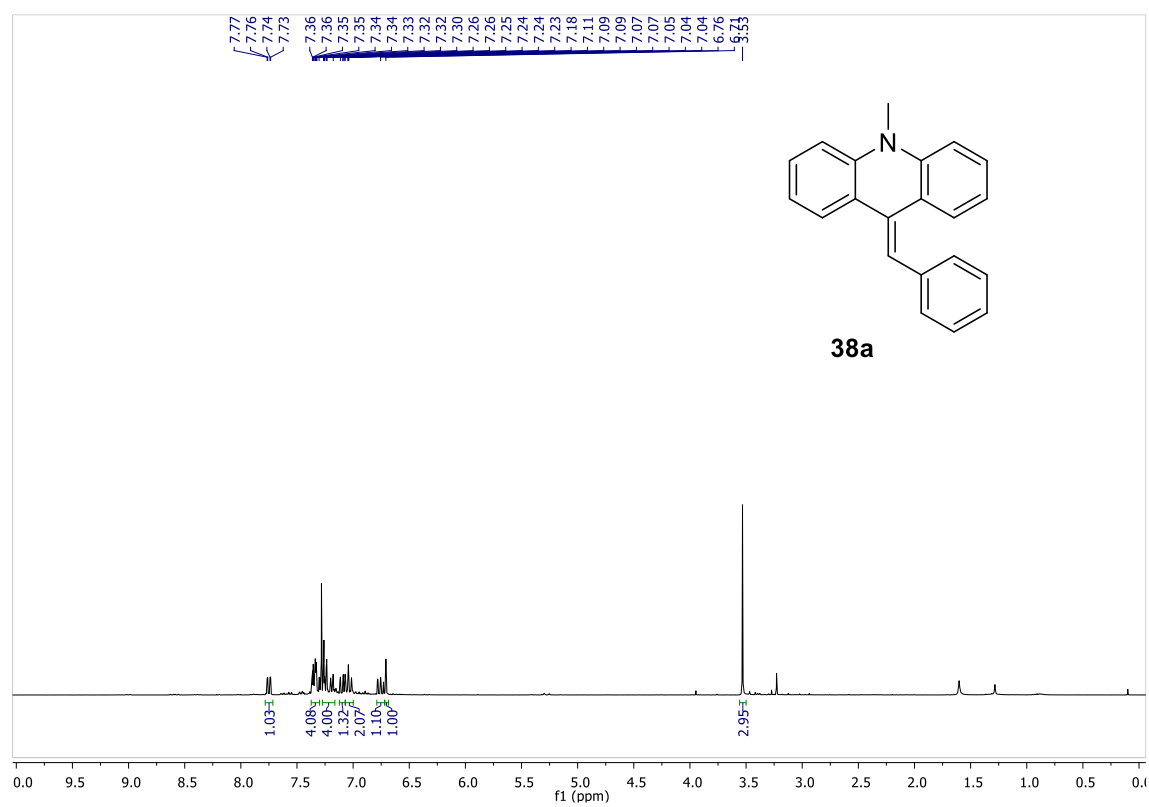
Cross-peaks between H_h (7.80 ppm) and H_g (7.67 ppm) respectively.

The presence of NOE between H_g-H_h establishes the (*Z*) configuration for the major isomer.

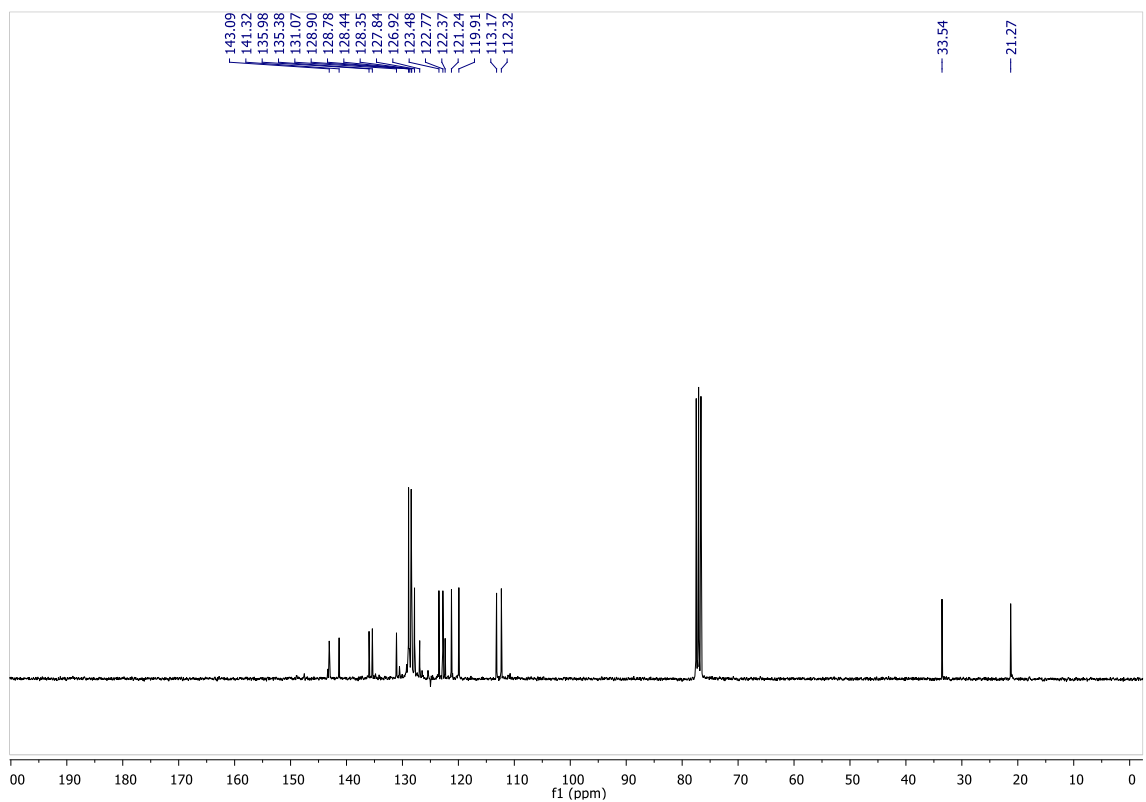
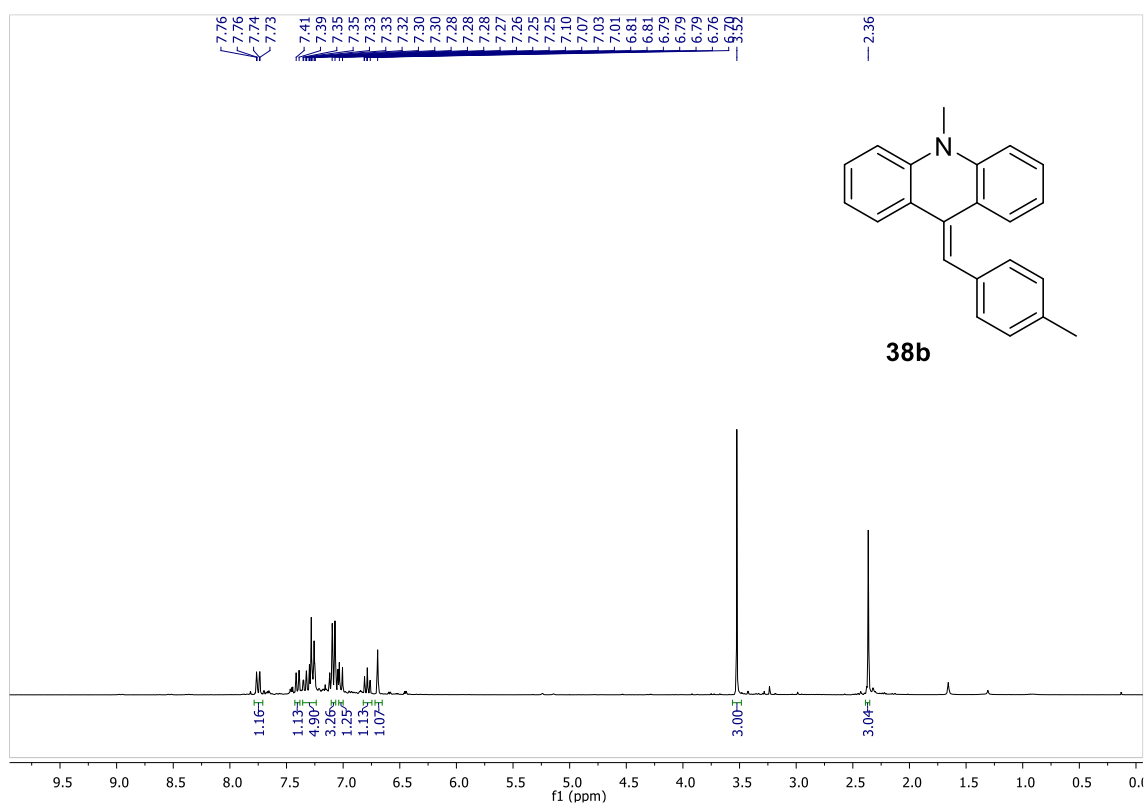
4-((3-Methyl-9H-fluoren-9-ylidene)methyl)benzonitrile (**31m**)



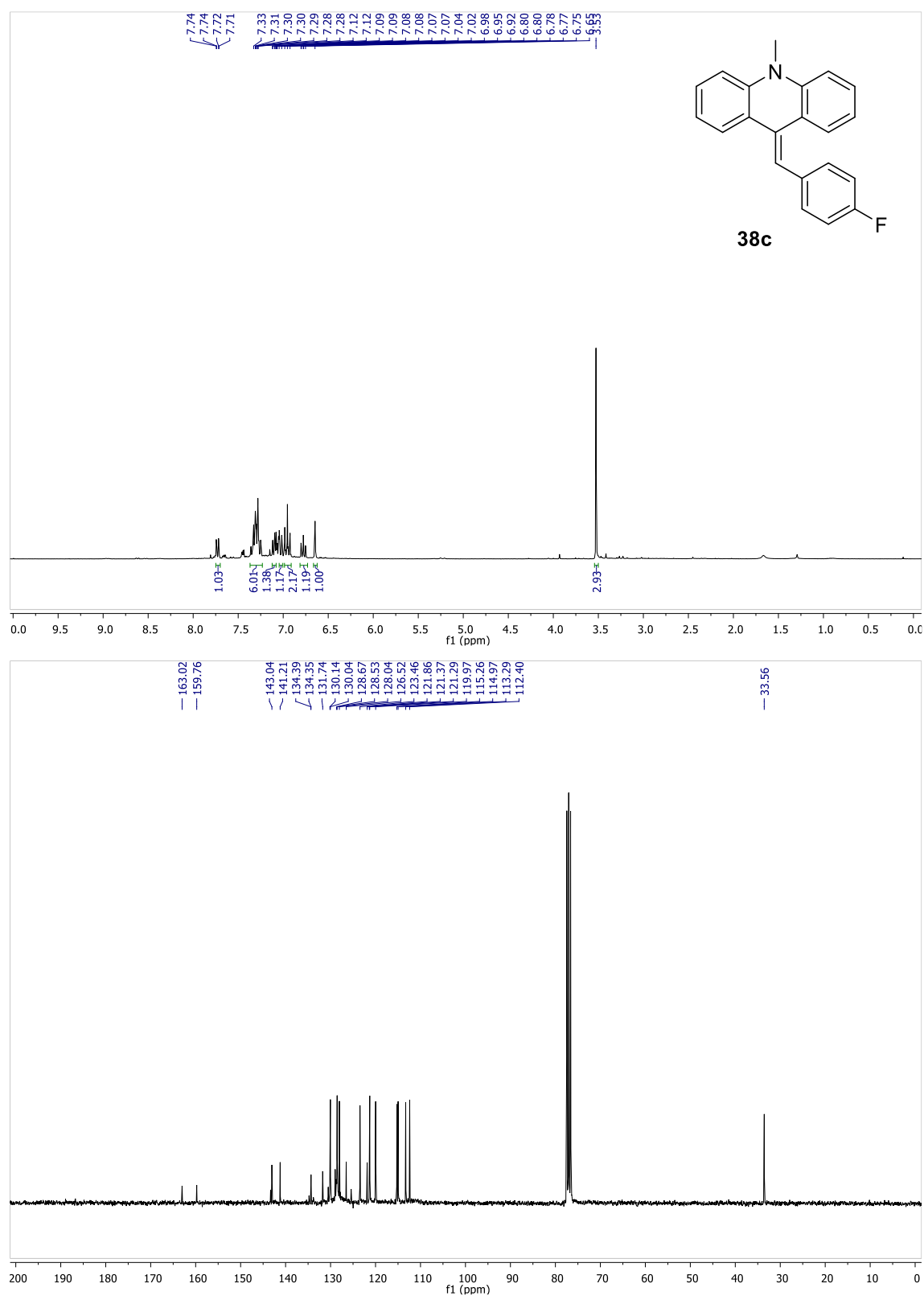
9-Benzylidene-10-methyl-9,10-dihydroacridine (**38a**)

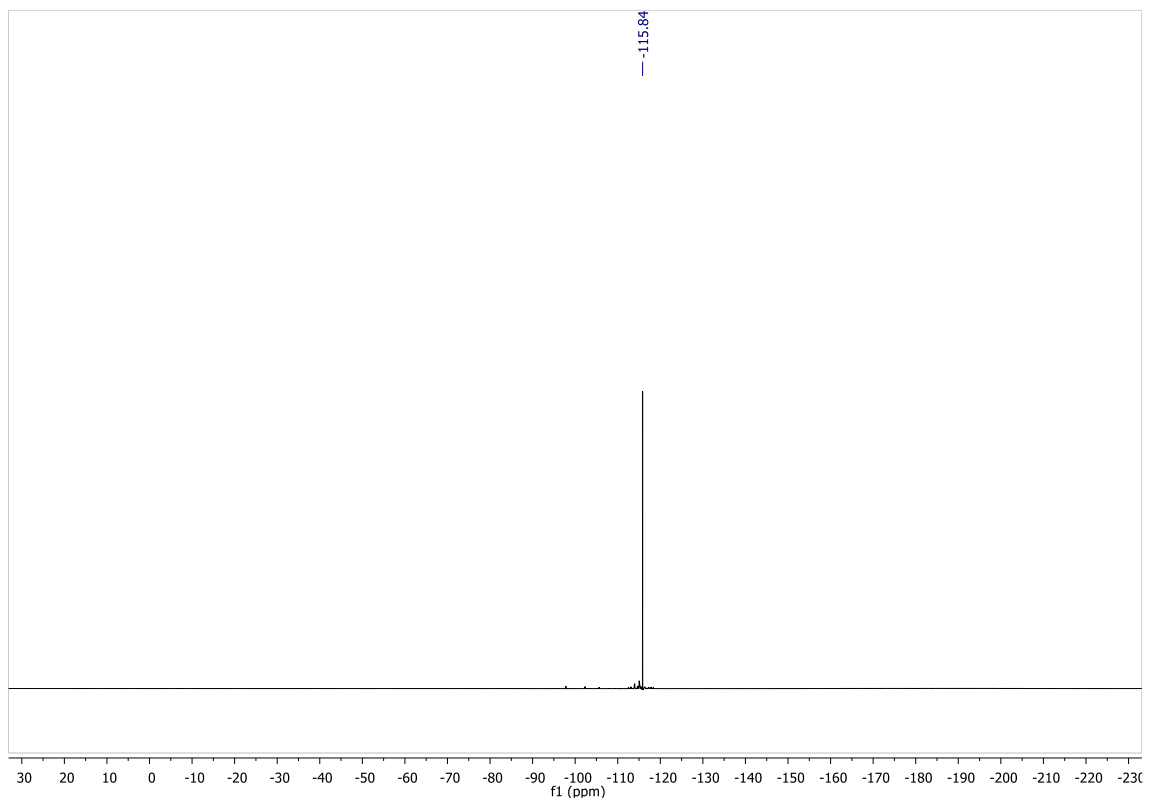


10-Methyl-9-(4-methylbenzylidene)-9,10-dihydroacridine (38b)

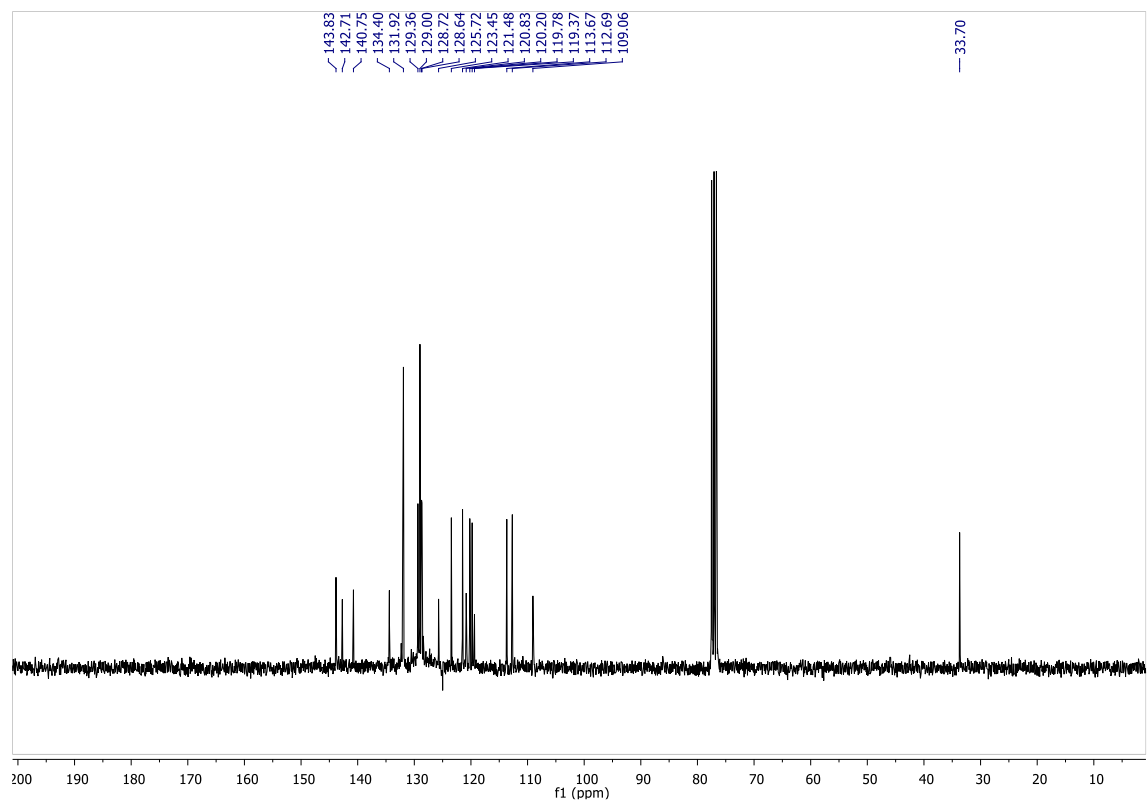
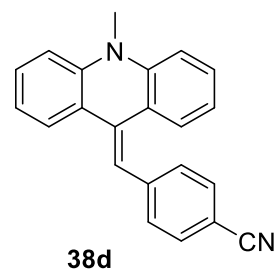
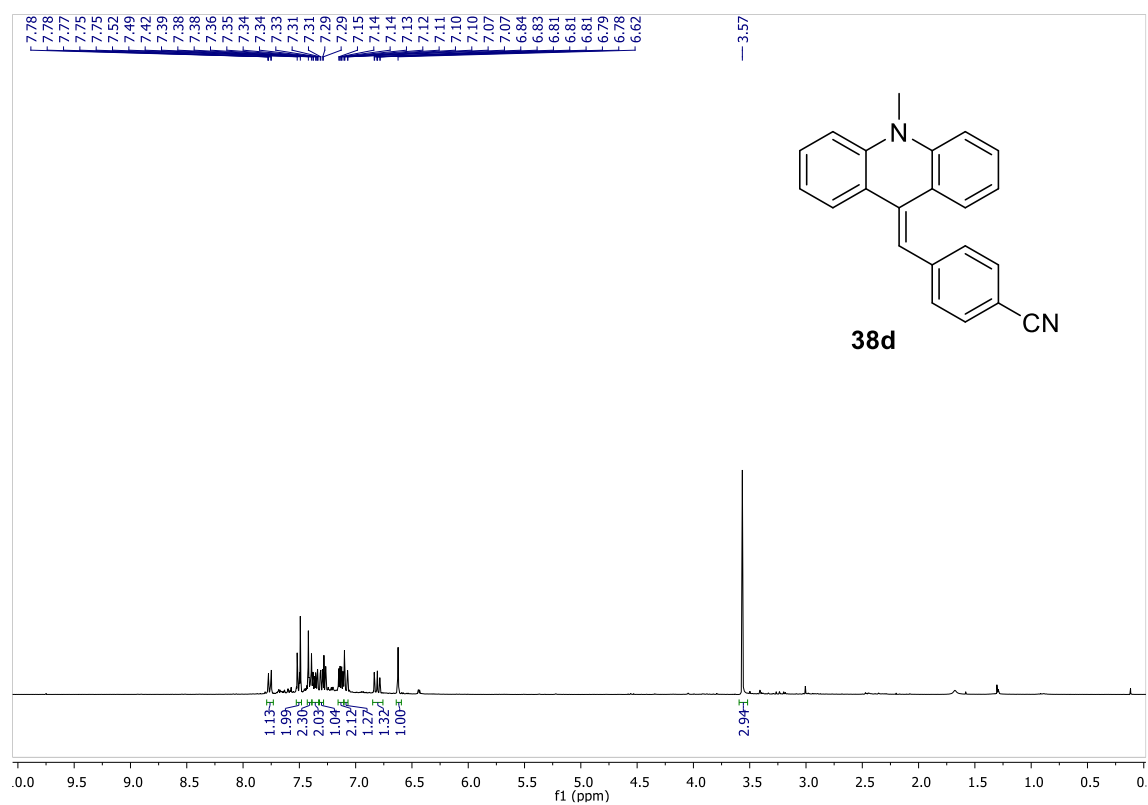


9-(4-Fluorobenzylidene)-10-methyl-9,10-dihydroacridine (**38c**)

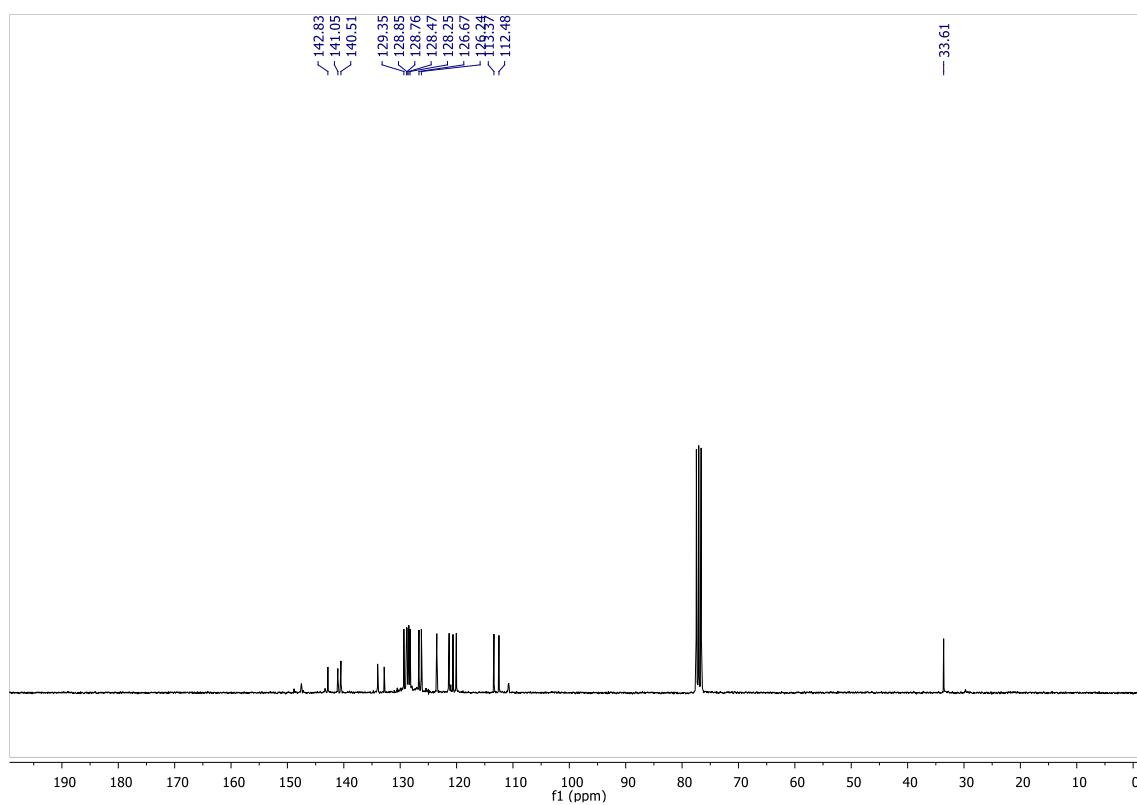
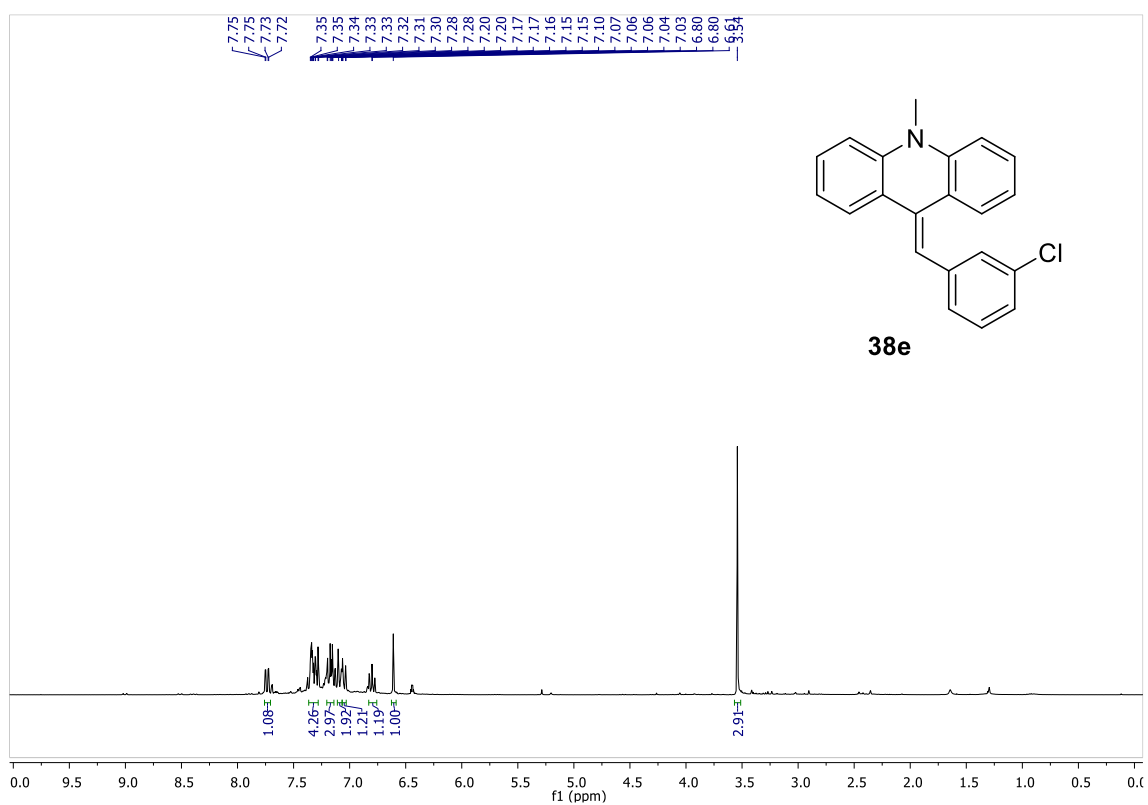




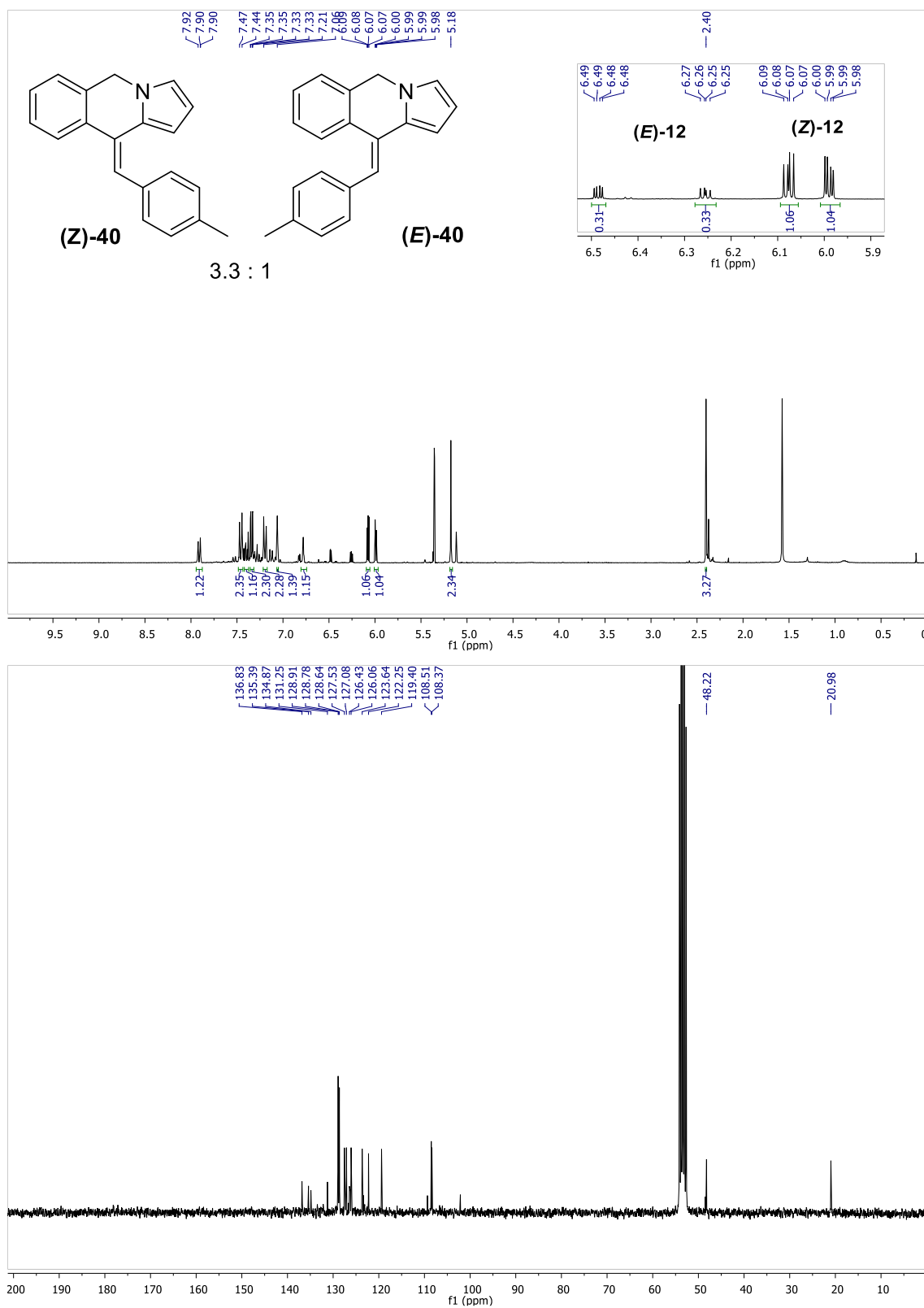
4-((10-Methylacridin-9(10H)-ylidene)methyl)benzonitrile (**38d**)



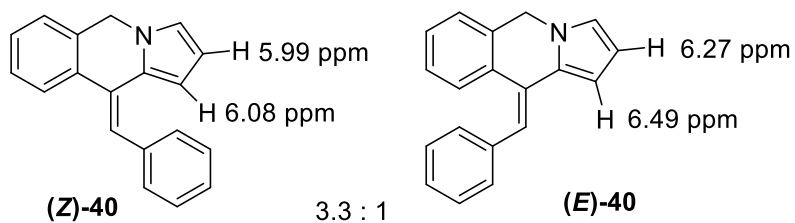
9-(3-Chlorobenzylidene)-10-methyl-9,10-dihydroacridine (**38e**)



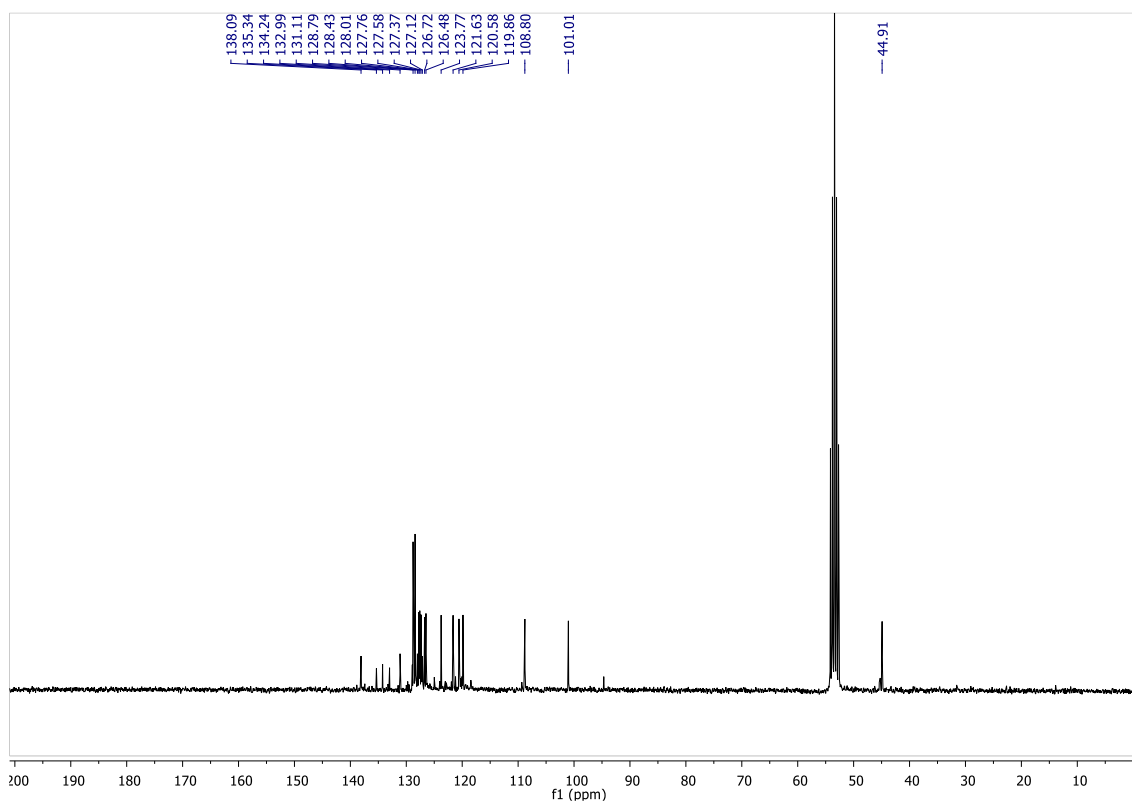
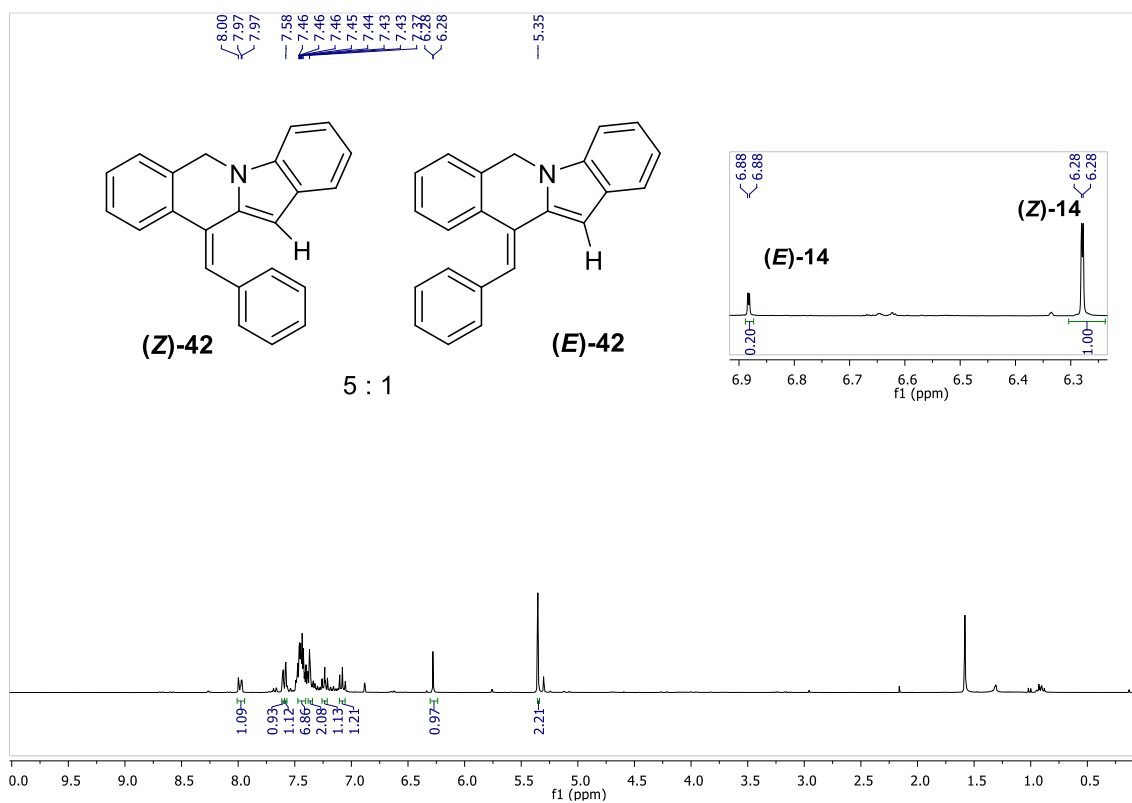
10-(4-Methylbenzylidene)-5,10-dihydropyrrolo[1,2-b]isoquinoline (40**)**



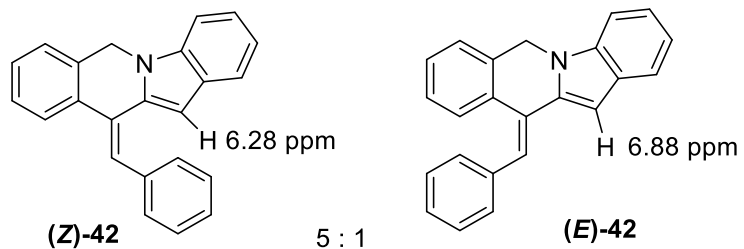
The stereochemistry of the major isomer was established by analogy with the results of compounds **31**. Moreover, the higher shielding observed in the ^1H NMR spectra for the signals of the pyrrole ring in the major isomer (5.99 and 6.08 major isomer, 6.26 and 6.48 minor isomer) is consistent of the shielding effect due to the presence of the phenyl ring in the same side, and therefore supports the stereochemistry proposed.



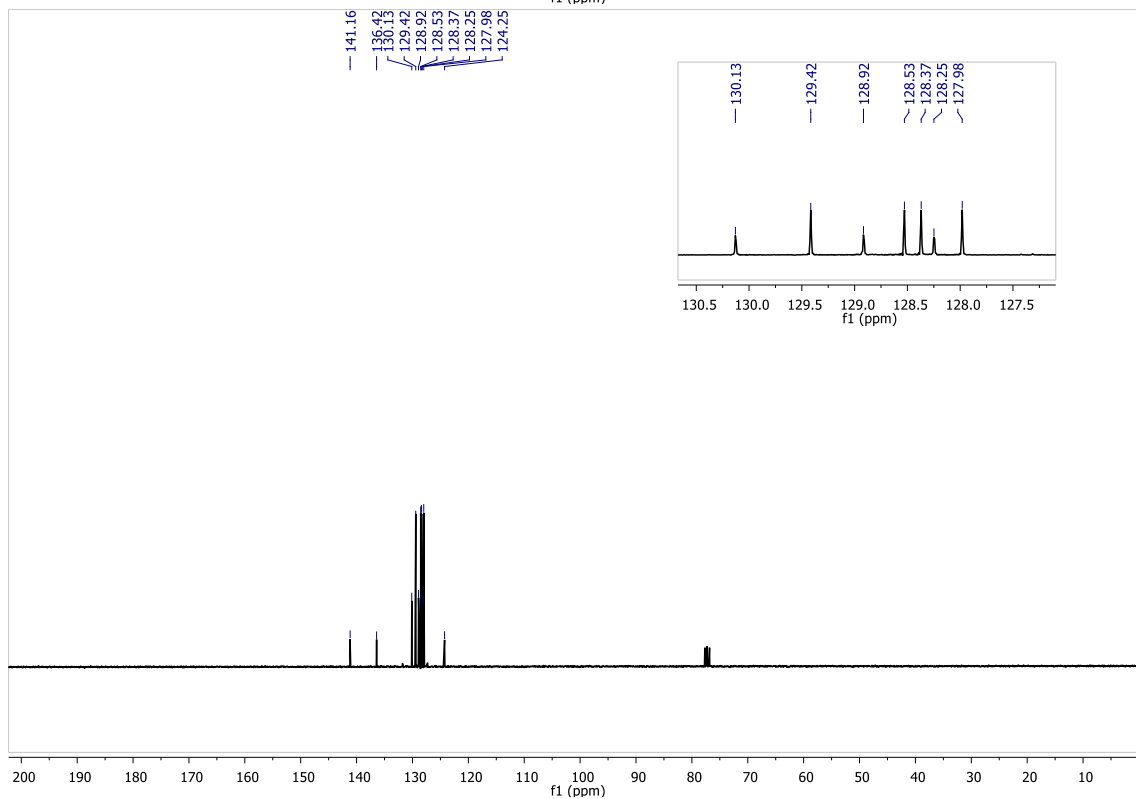
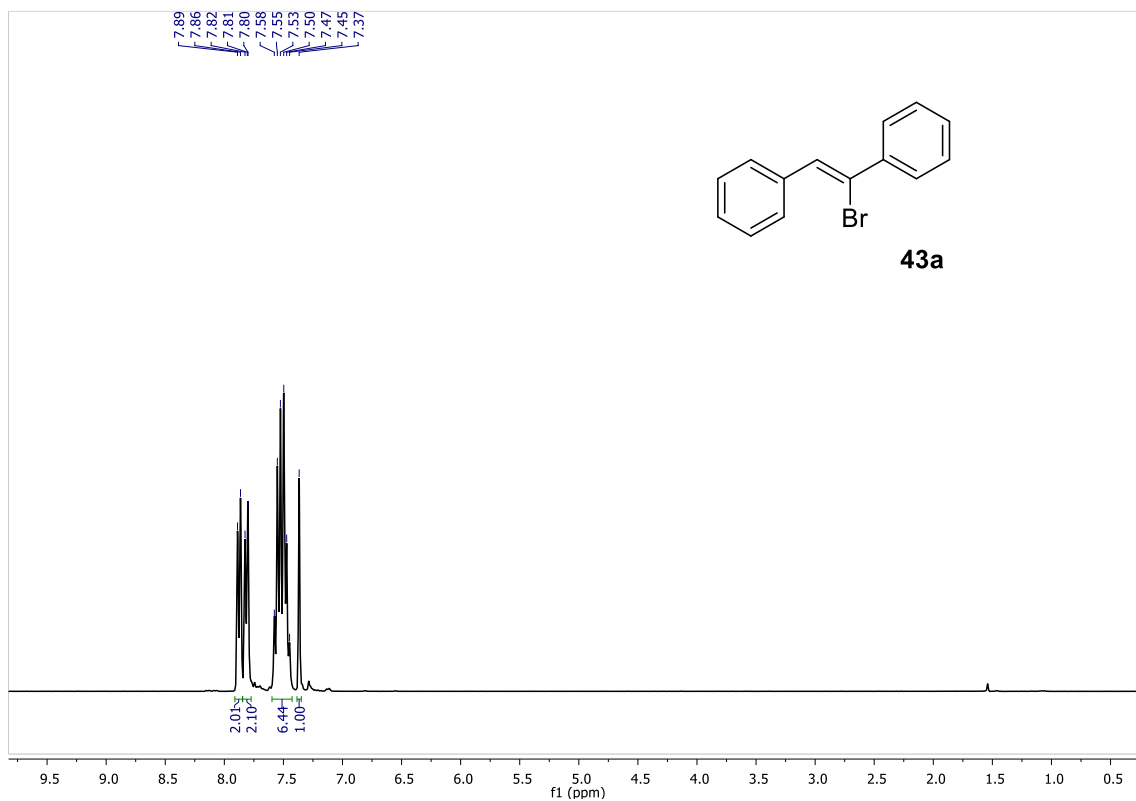
11-Benzylidene-6,11-dihydroindolo[1,2-b]isoquinoline (**42**)



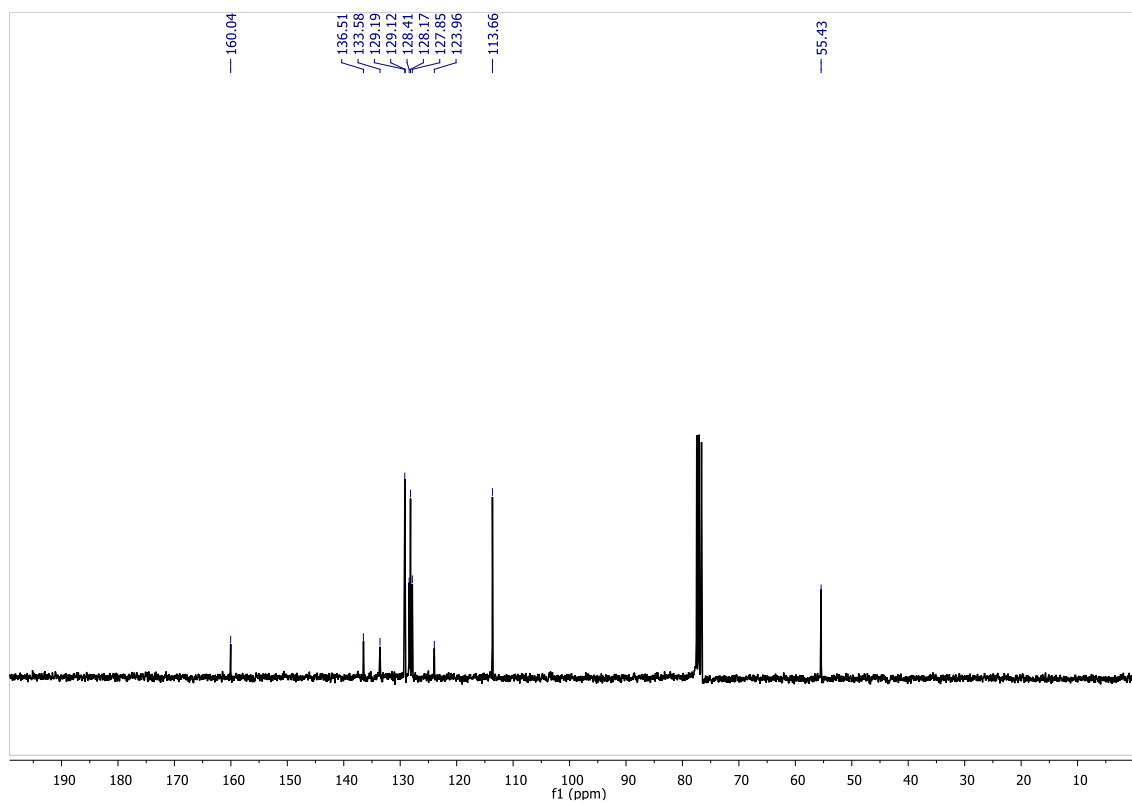
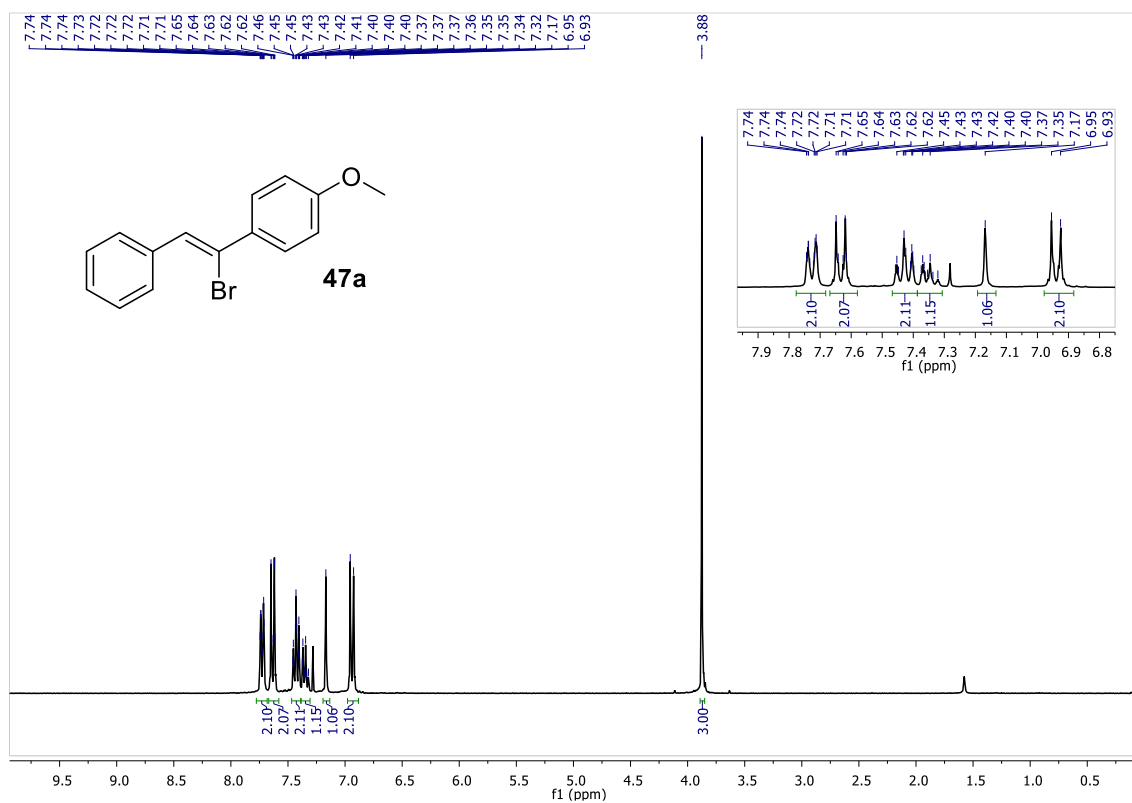
The stereochemistry of the major isomer was established by analogy with the results of compounds **31**. Moreover, the higher shielding observed in the ^1H NMR spectra for the signal at C12 in the major isomer (6.28 major isomer, 6.88 minor isomer) is consistent of the shielding effect due to the presence of the phenyl ring in the same side, and therefore supports the stereochemistry proposed.



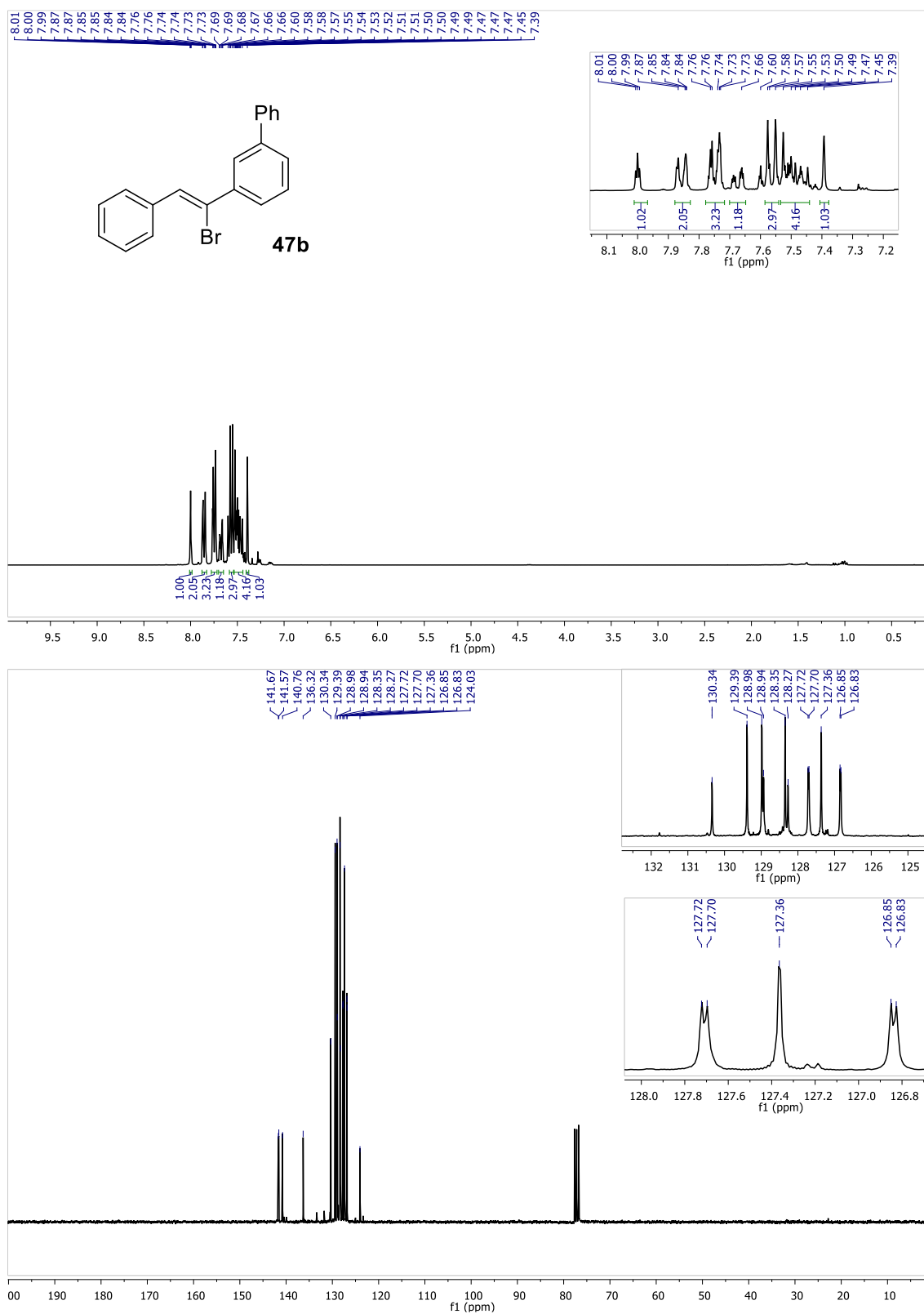
(Z)-(1-Bromoethene-1,2-diyl)dibenzene 43a



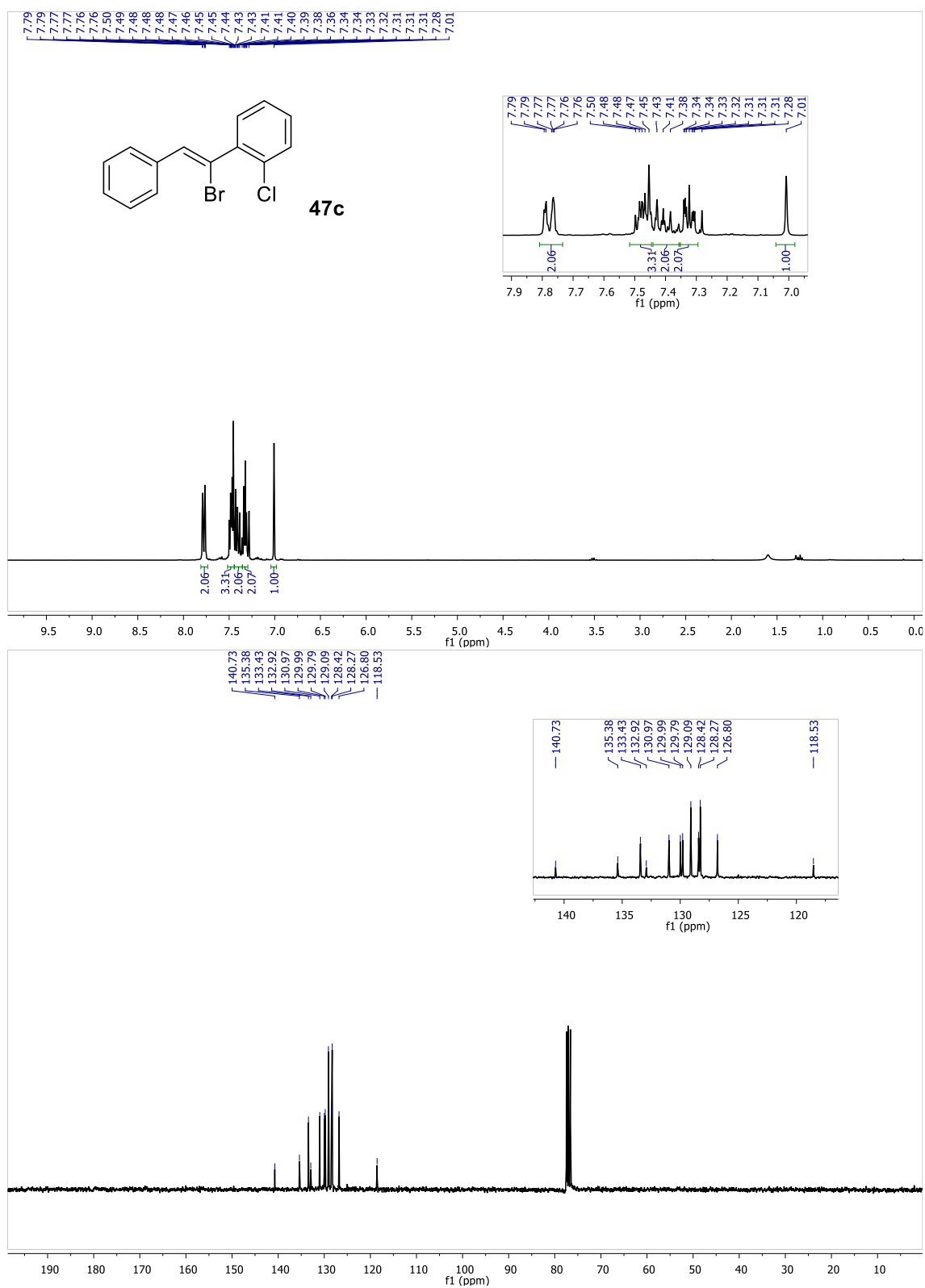
(Z)-1-(1-Bromo-2-phenylvinyl)-4-methoxybenzene 47a



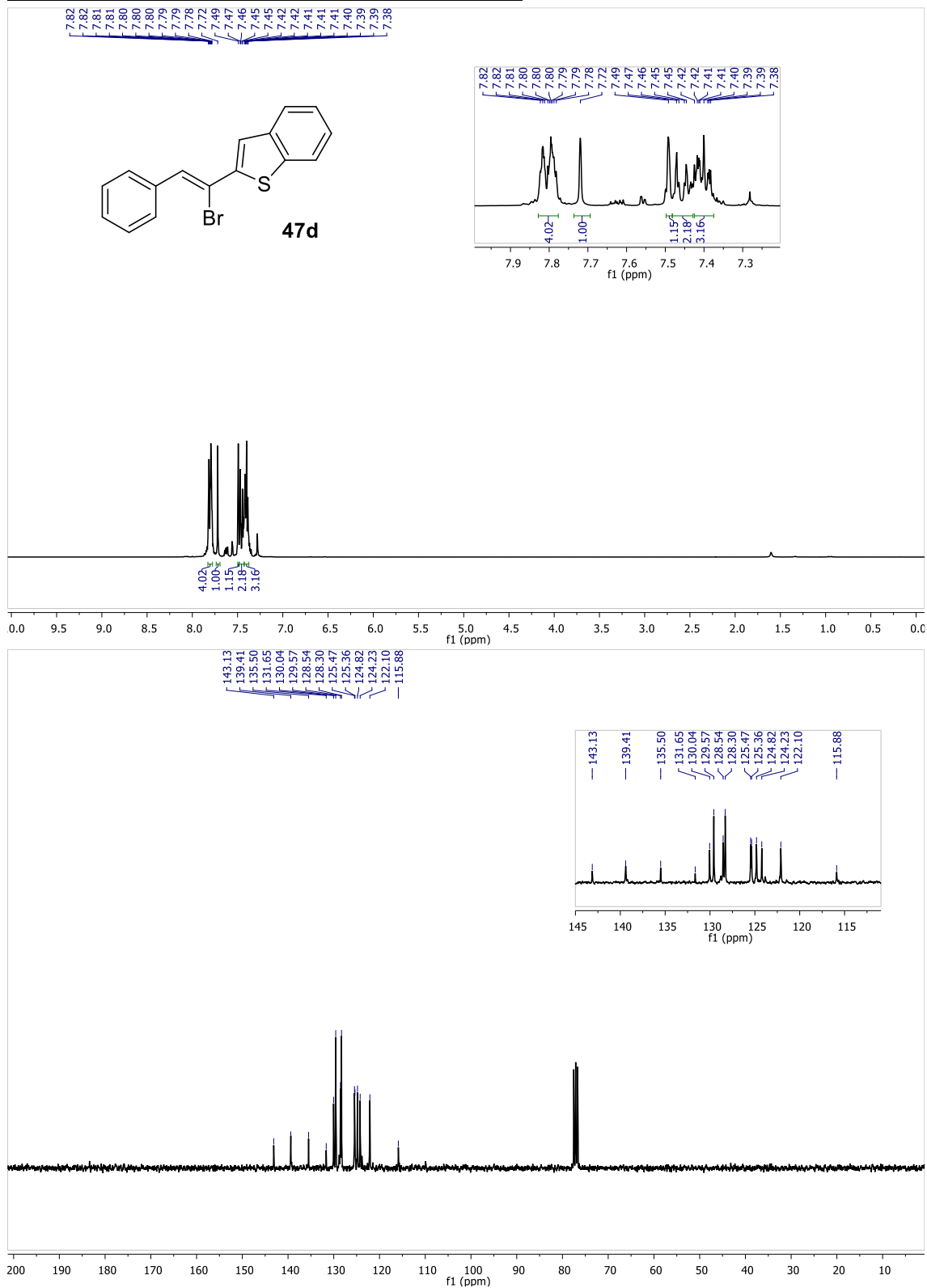
(Z)-3-(1-Bromo-2-phenylvinyl)-1,1'-biphenyl 47b



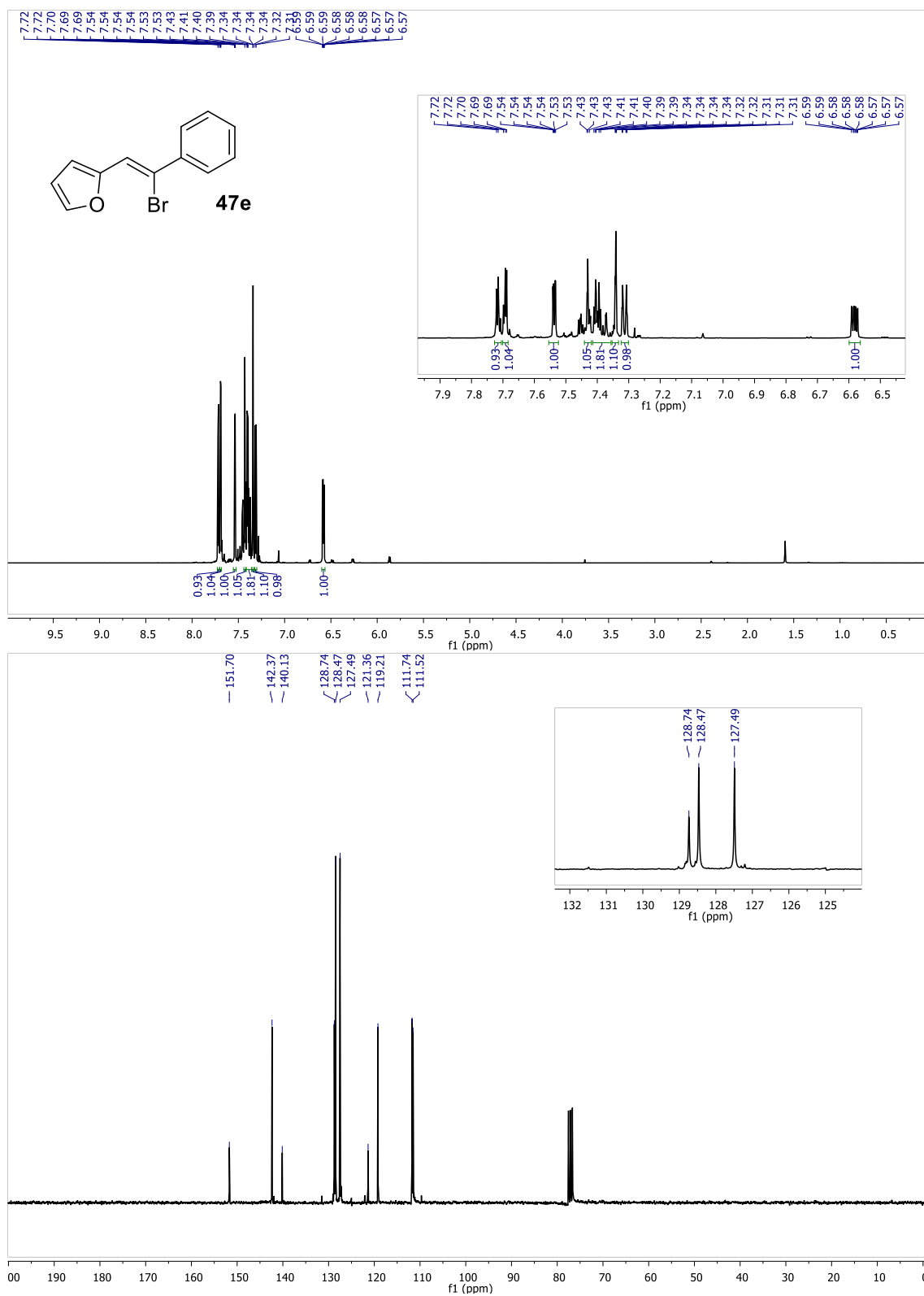
(Z)-1-(1-Bromo-2-phenylvinyl)-2-chlorobenzene 47c



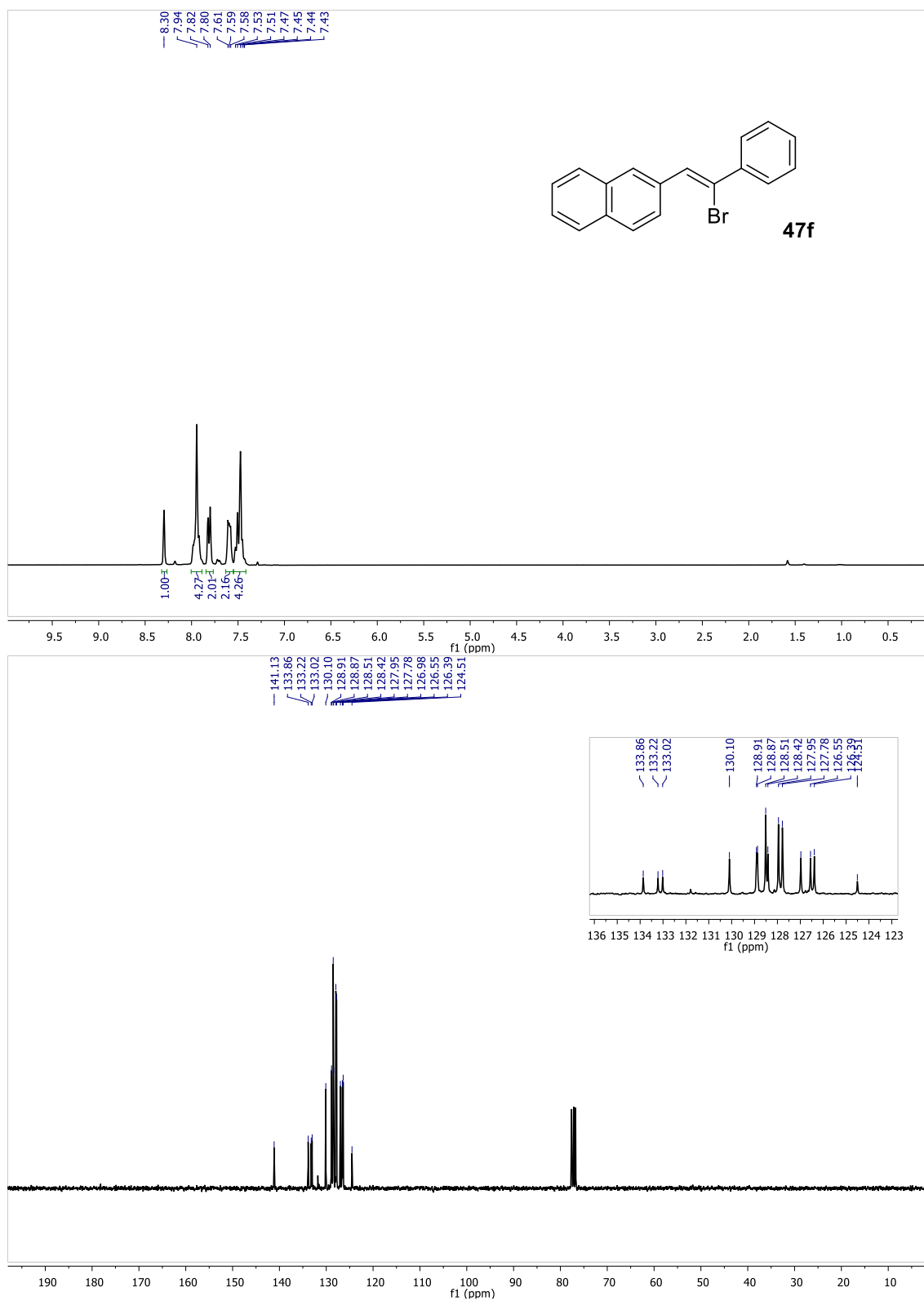
(Z)-2-(1-Bromo-2-phenylvinyl)benzo[*b*]thiophene 47d



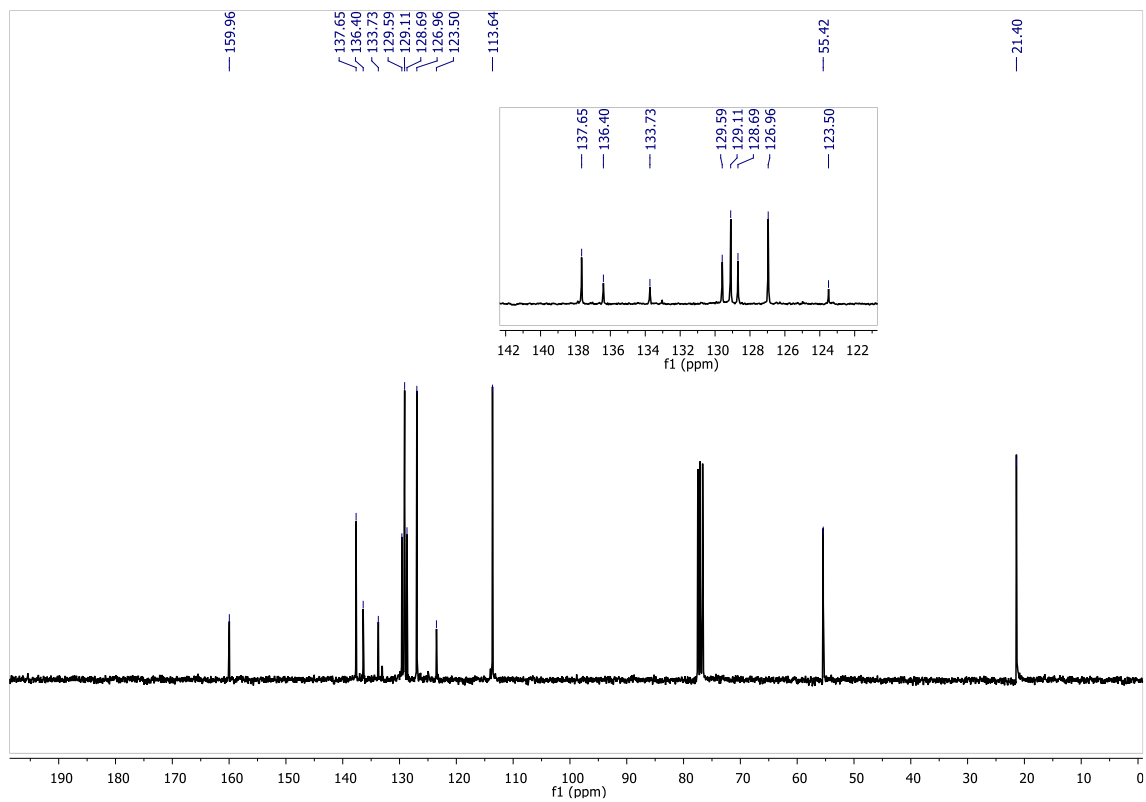
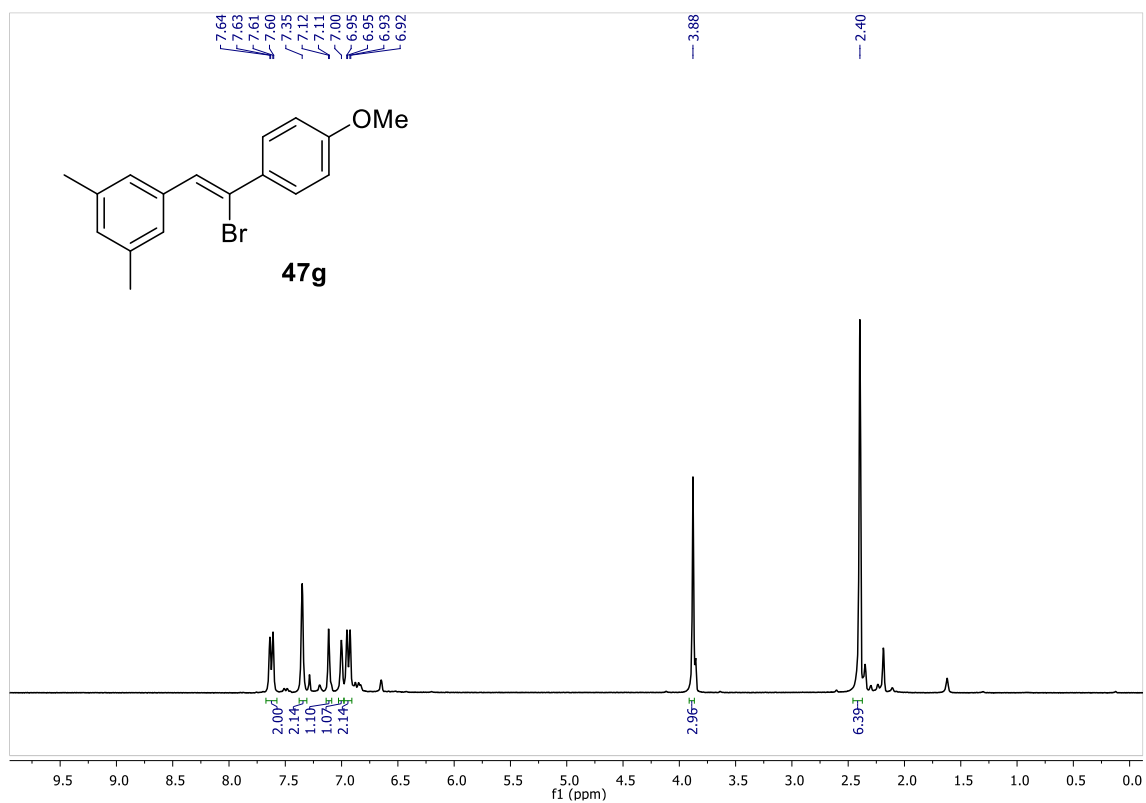
(Z)-2-(2-Bromo-2-phenylvinyl)furan 47e



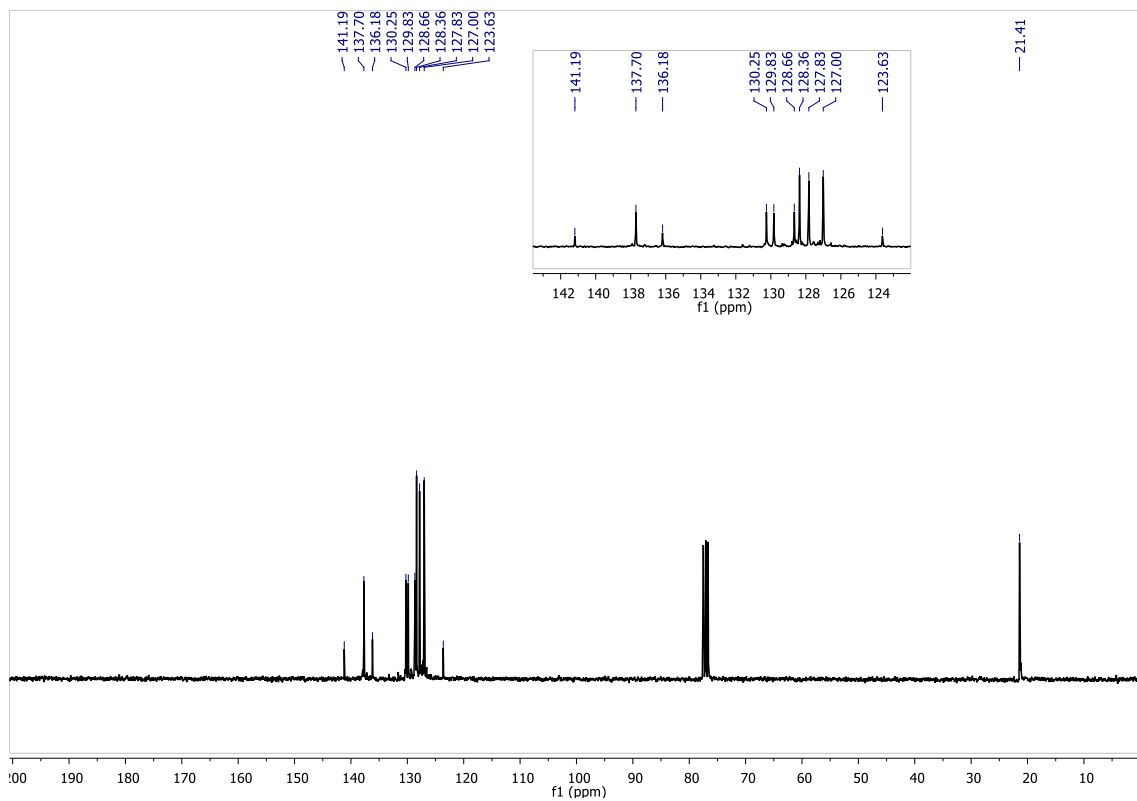
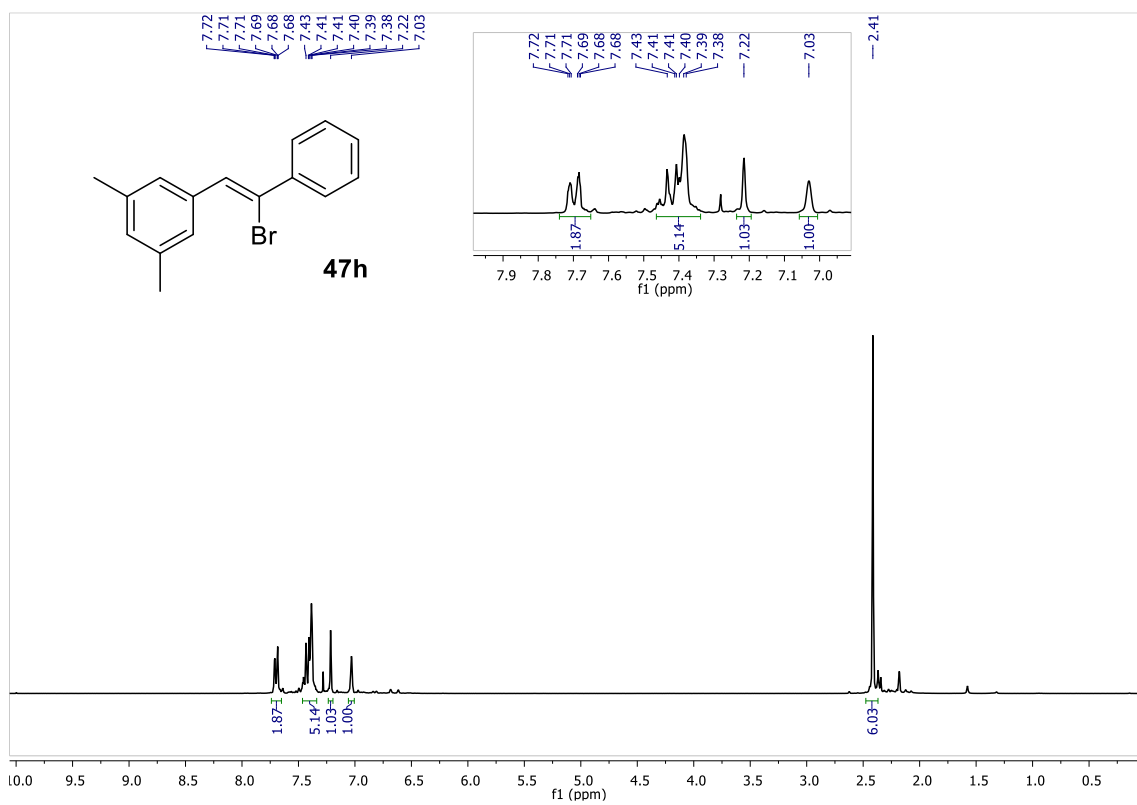
(Z)-2-(2-bromo-2-phenylvinyl)naphthalene **47f**



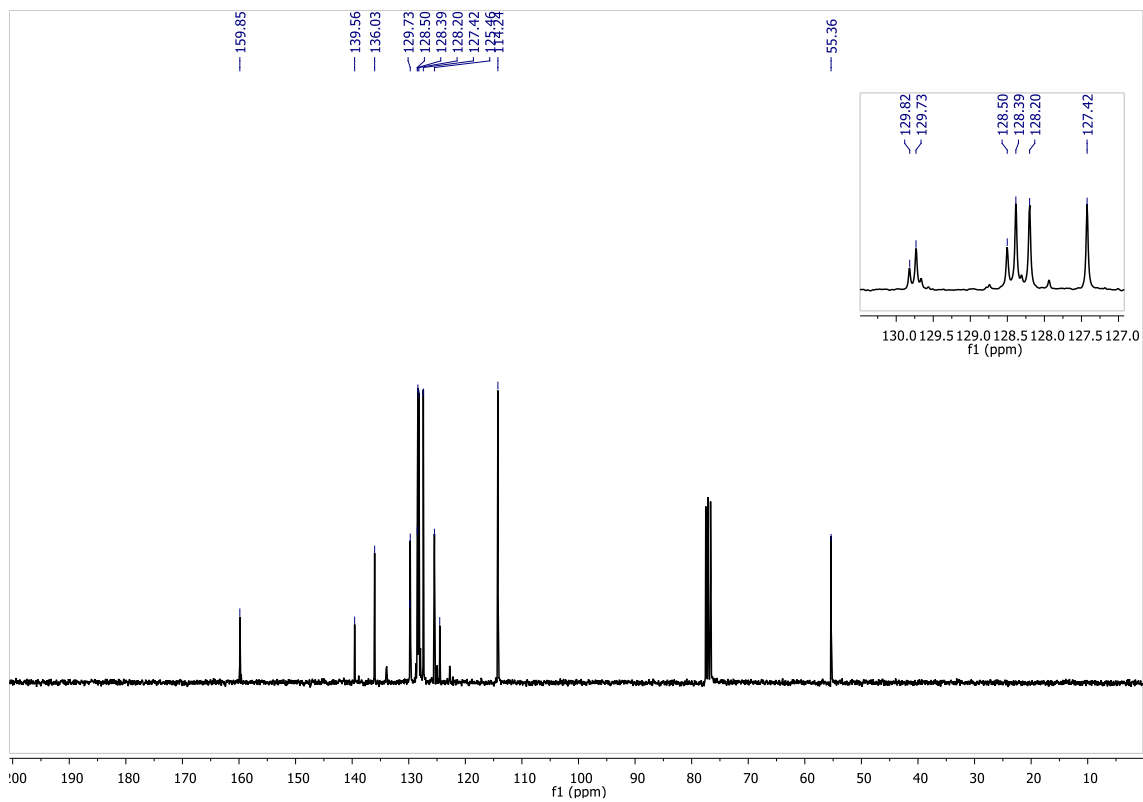
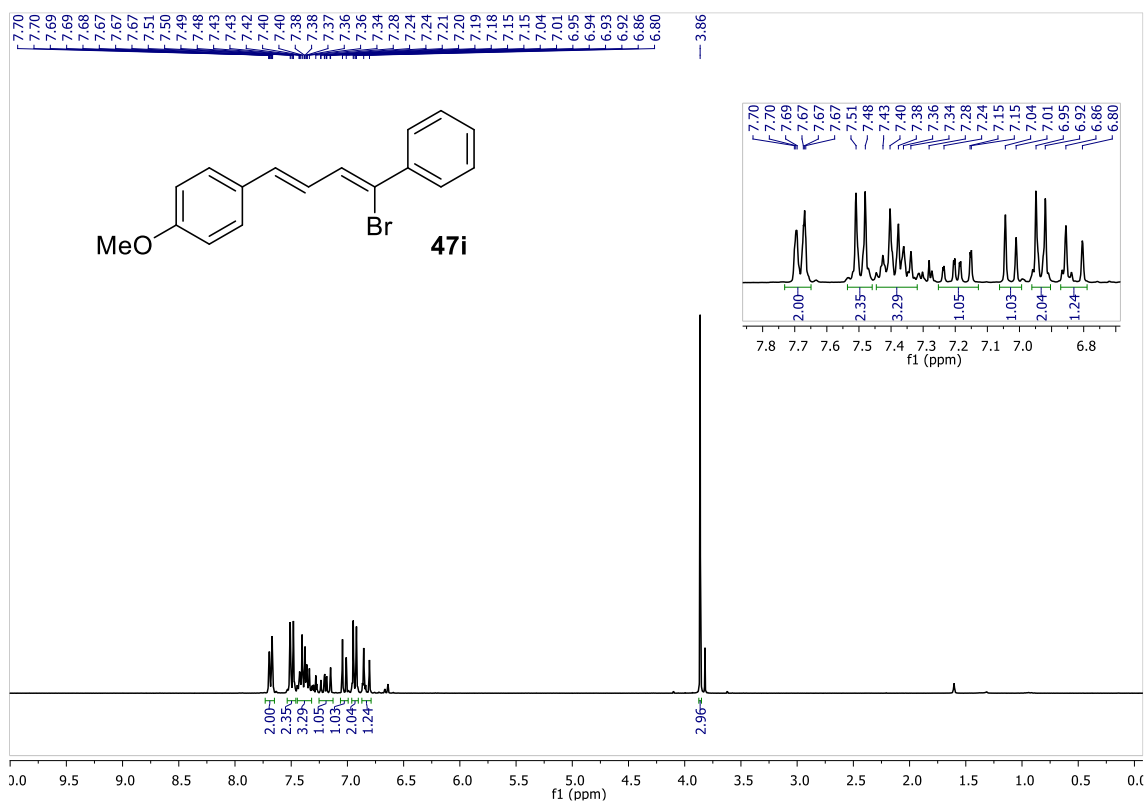
(Z)-1-(2-Bromo-2-(4-methoxyphenyl)vinyl)-3,5-dimethylbenzene **47g**



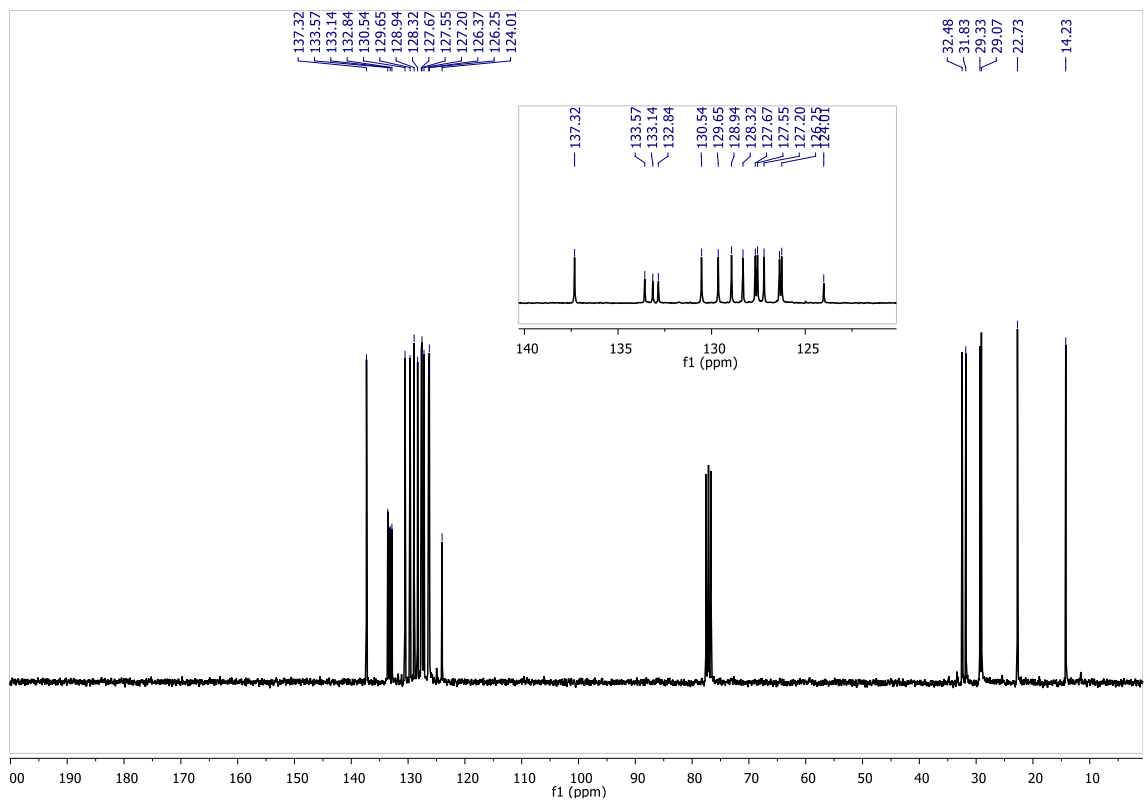
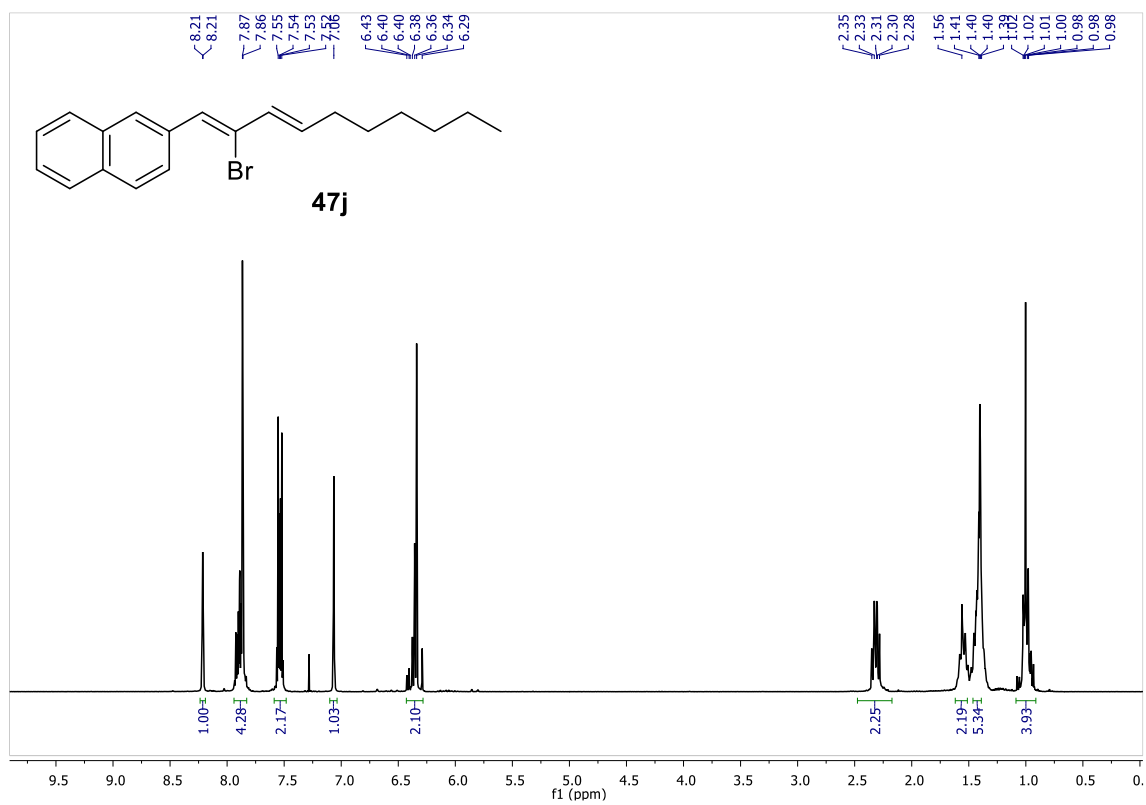
(Z)-1-(2-Bromo-2-phenylvinyl)-3,5-dimethylbenzene 47h



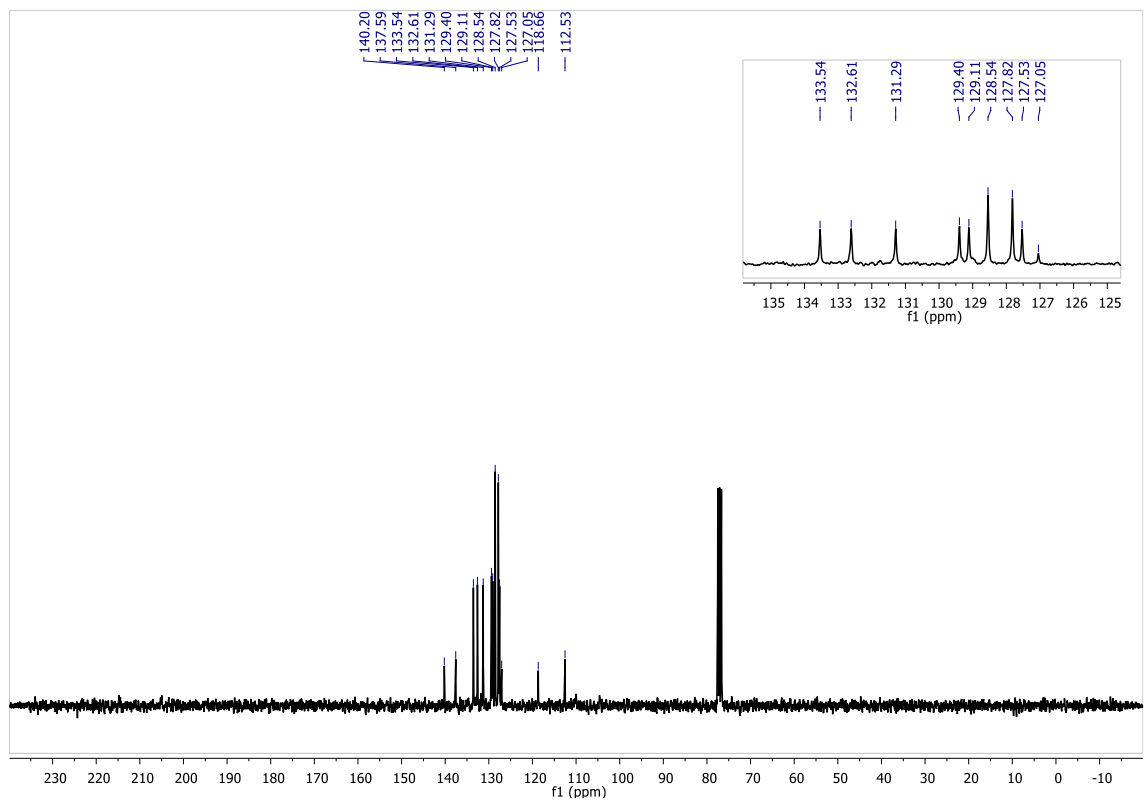
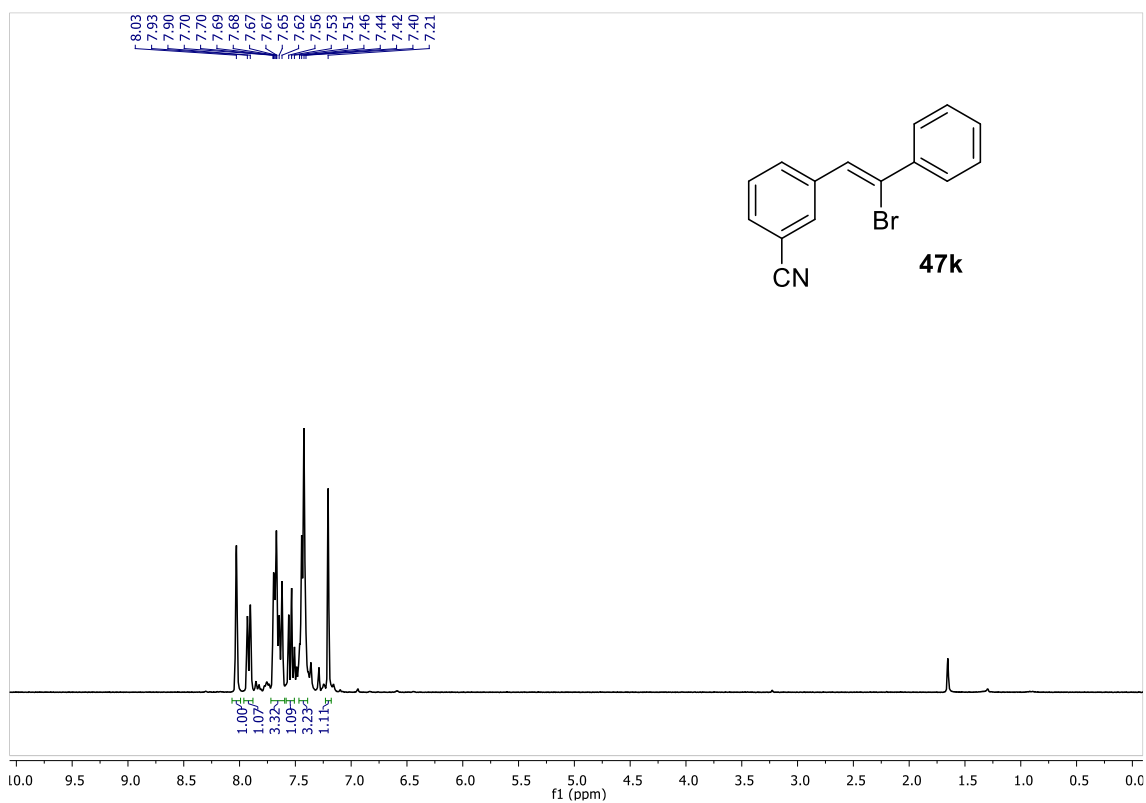
1-((1*E*,3*Z*)-4-Bromo-4-phenylbuta-1,3-dien-1-yl)-4-methoxybenzene **47i**



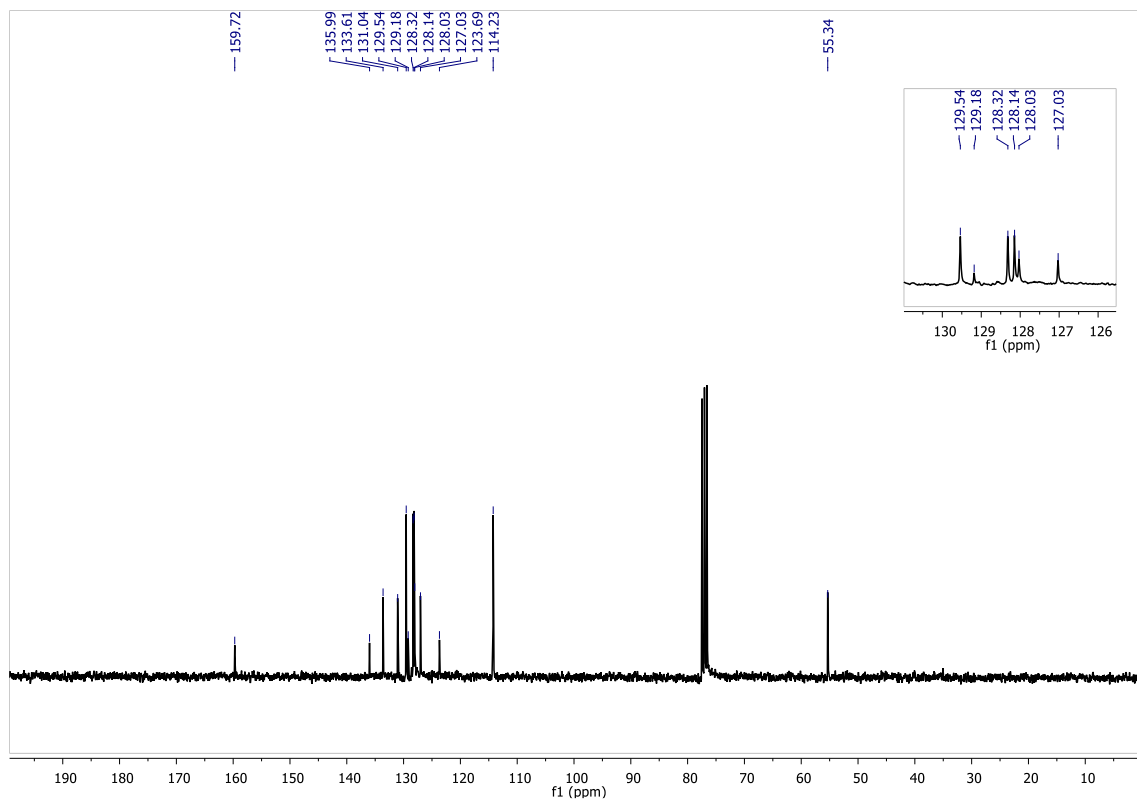
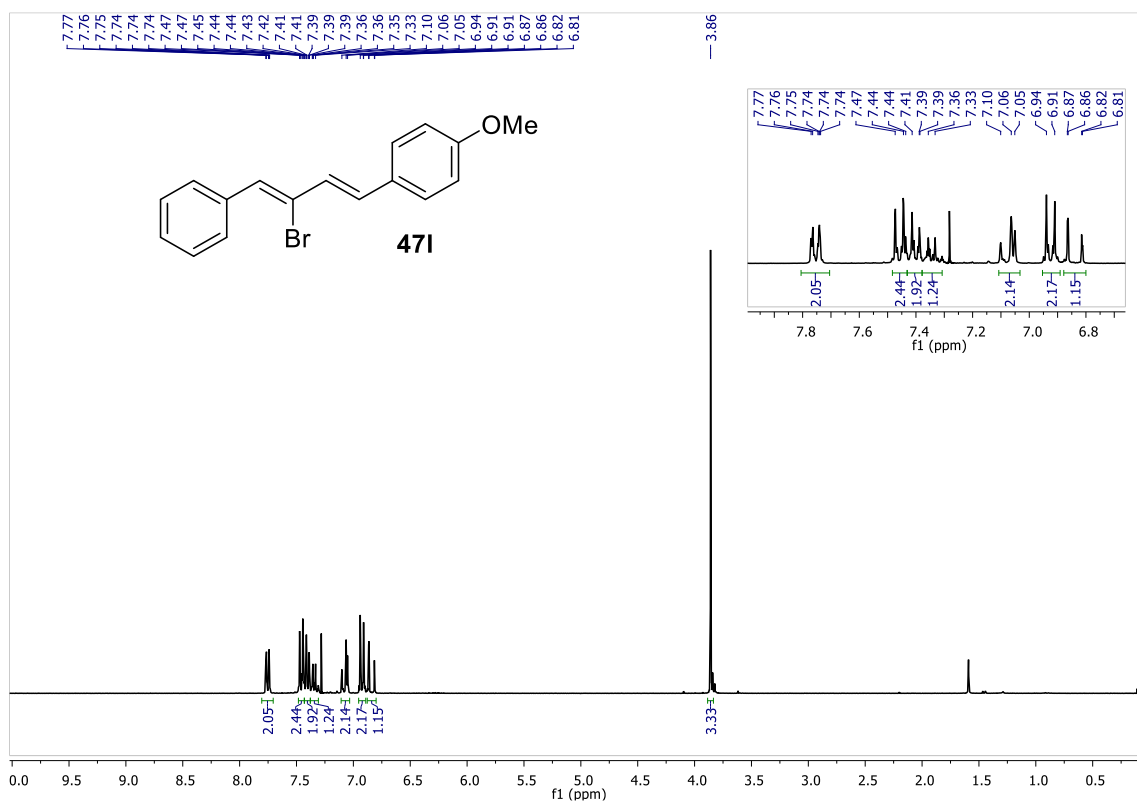
2-((1Z,3E)-2-bromodeca-1,3-dien-1-yl)naphthalene **47j**



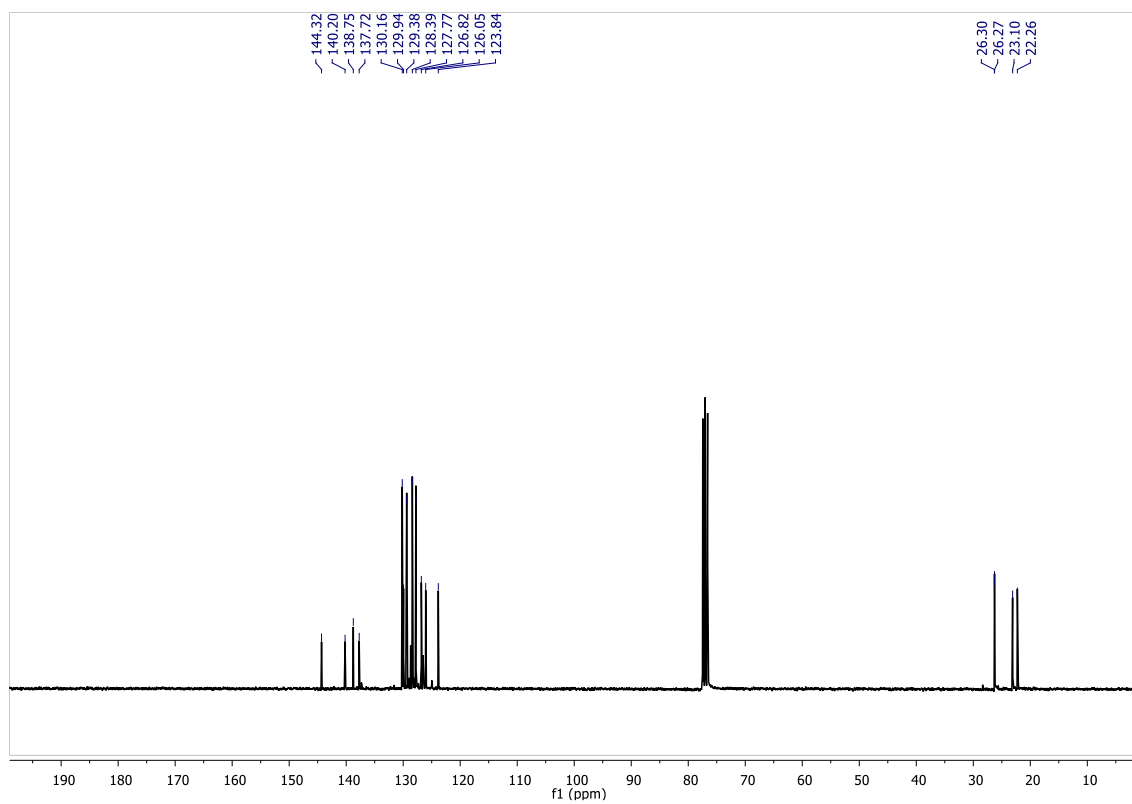
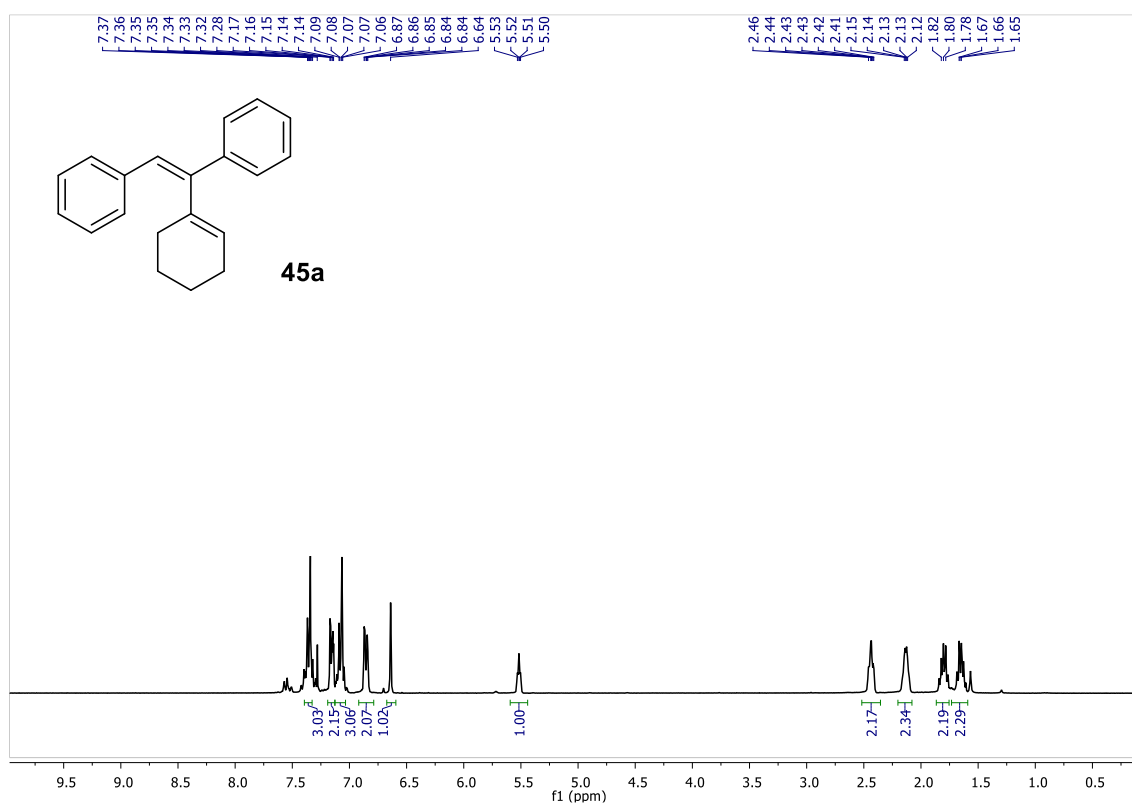
(Z)-3-(2-Bromo-2-phenylvinyl)benzonitrile 47k



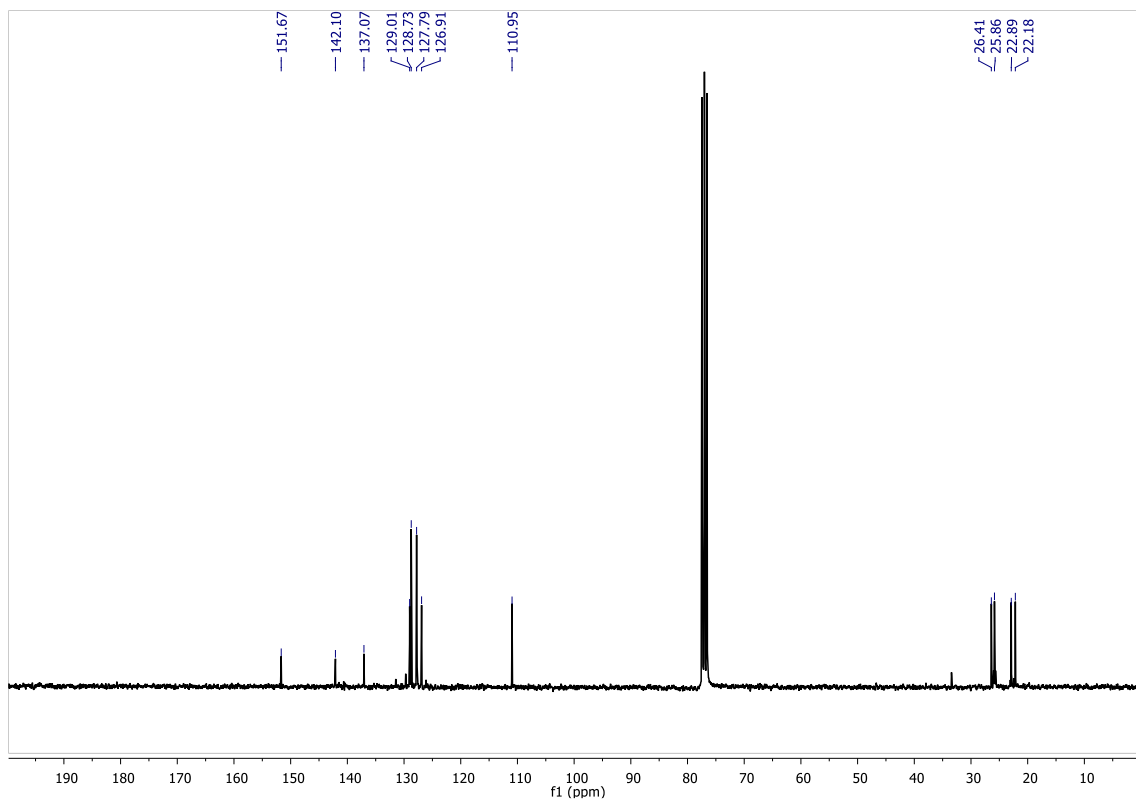
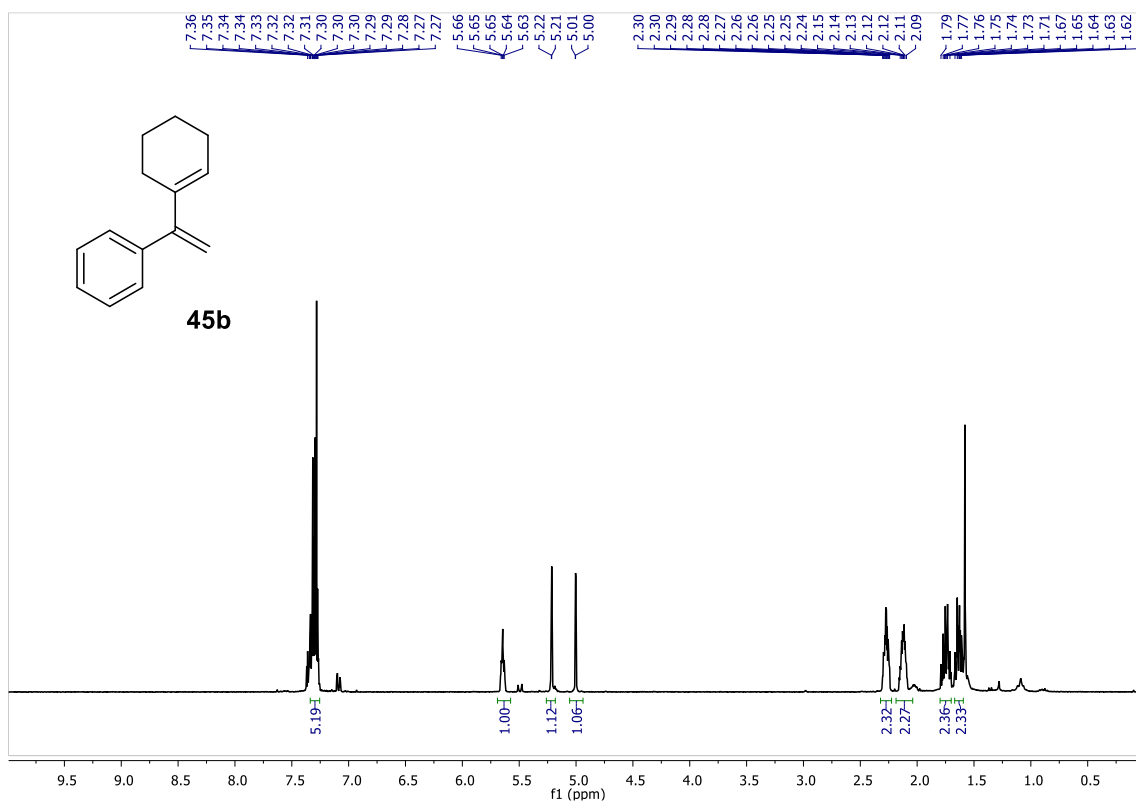
1-((1E,3Z)-3-Bromo-4-phenylbuta-1,3-dien-1-yl)-4-methoxybenzene 471



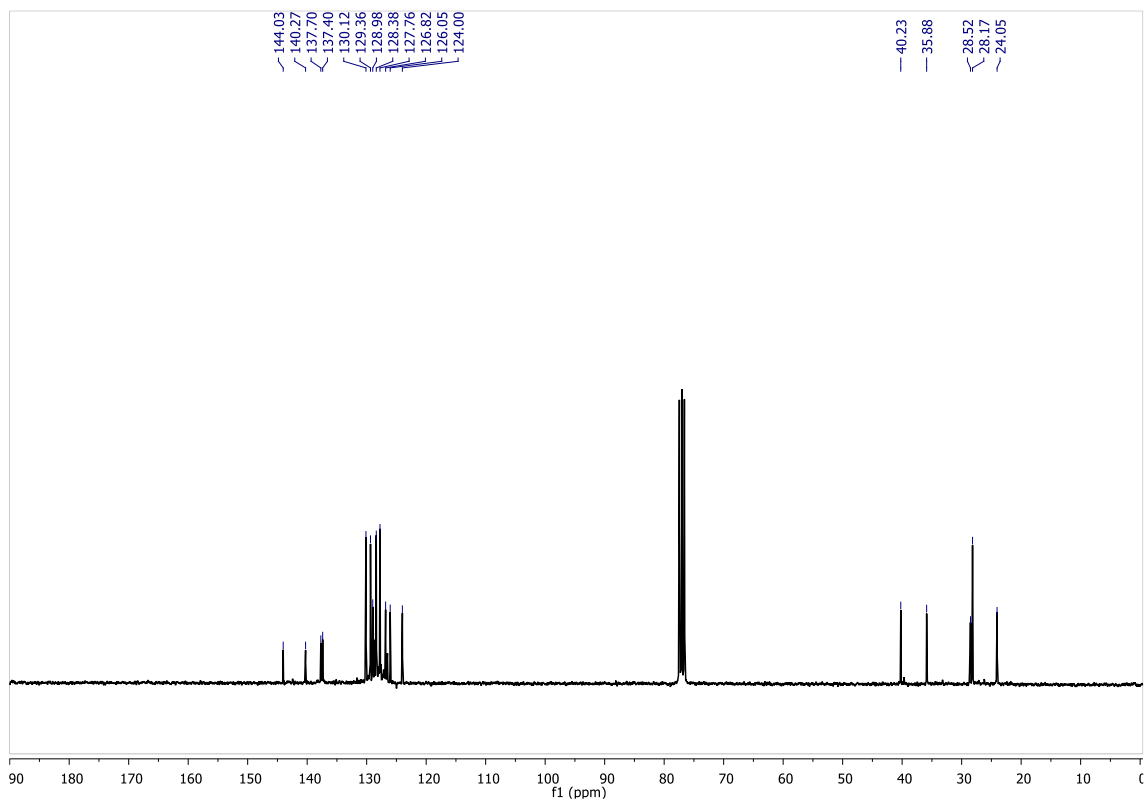
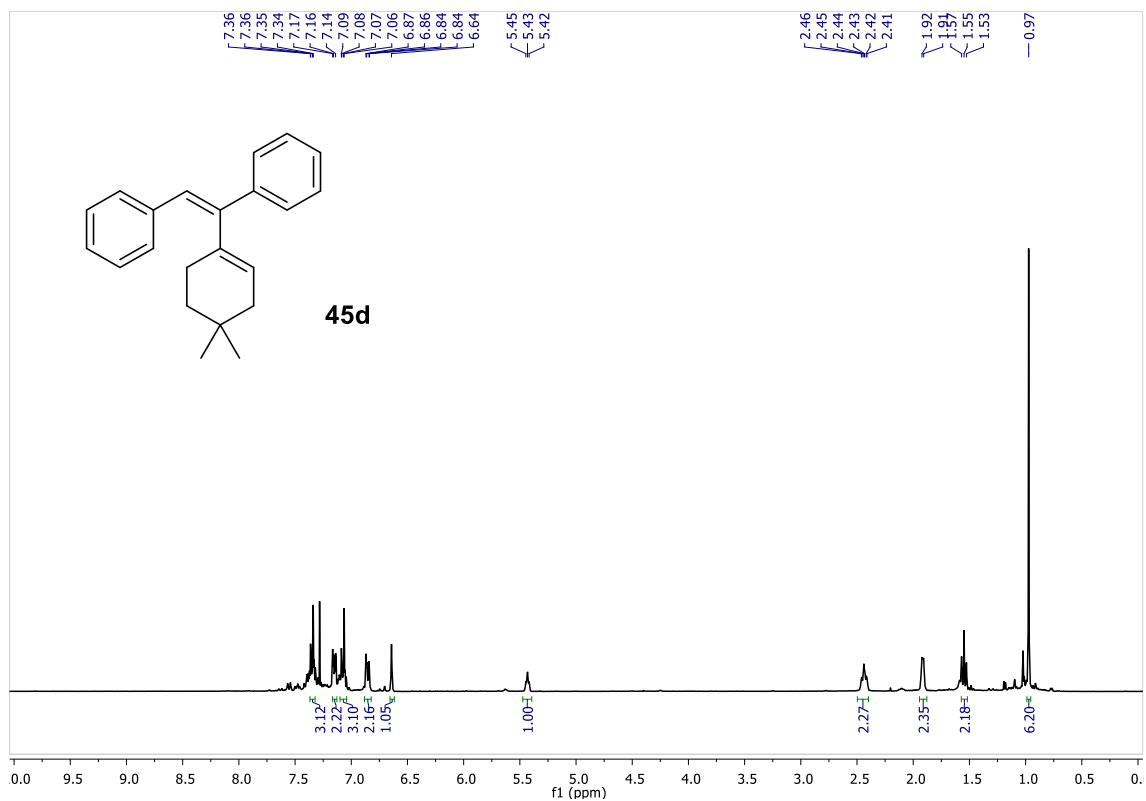
(E)-(1-(Cyclohex-1-en-1-yl)ethene-1,2-diyl)dibenzene 45a



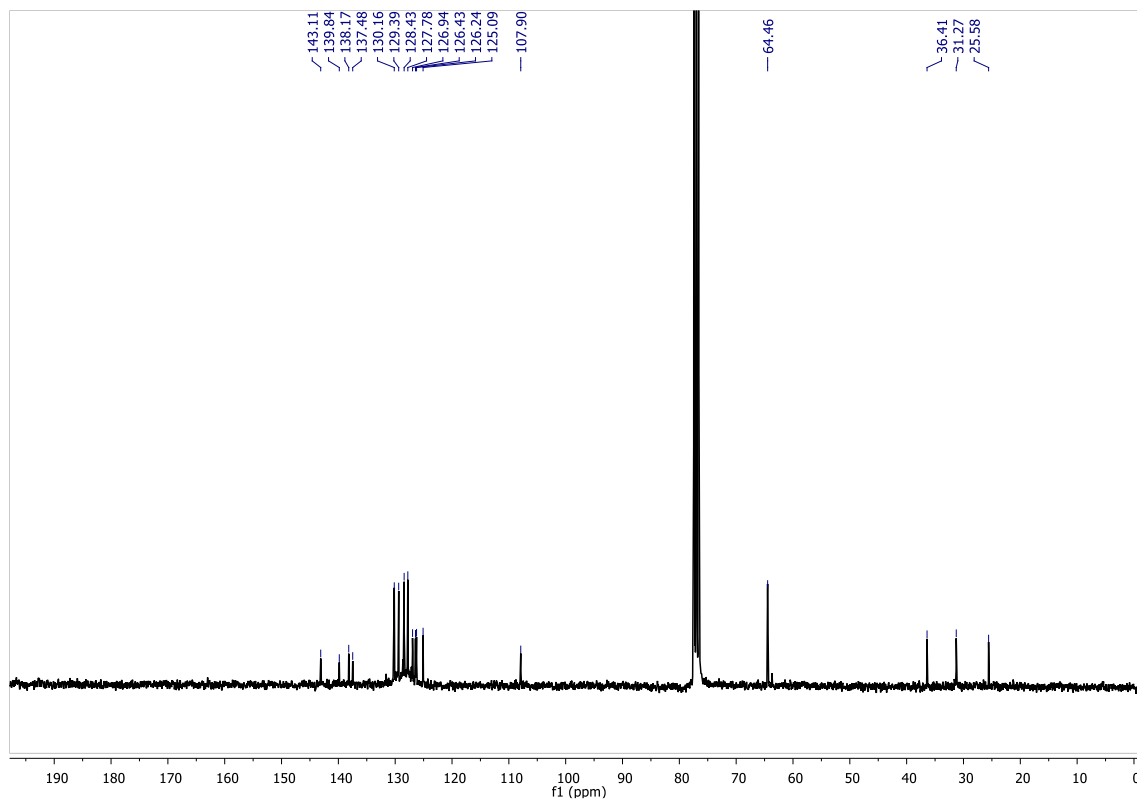
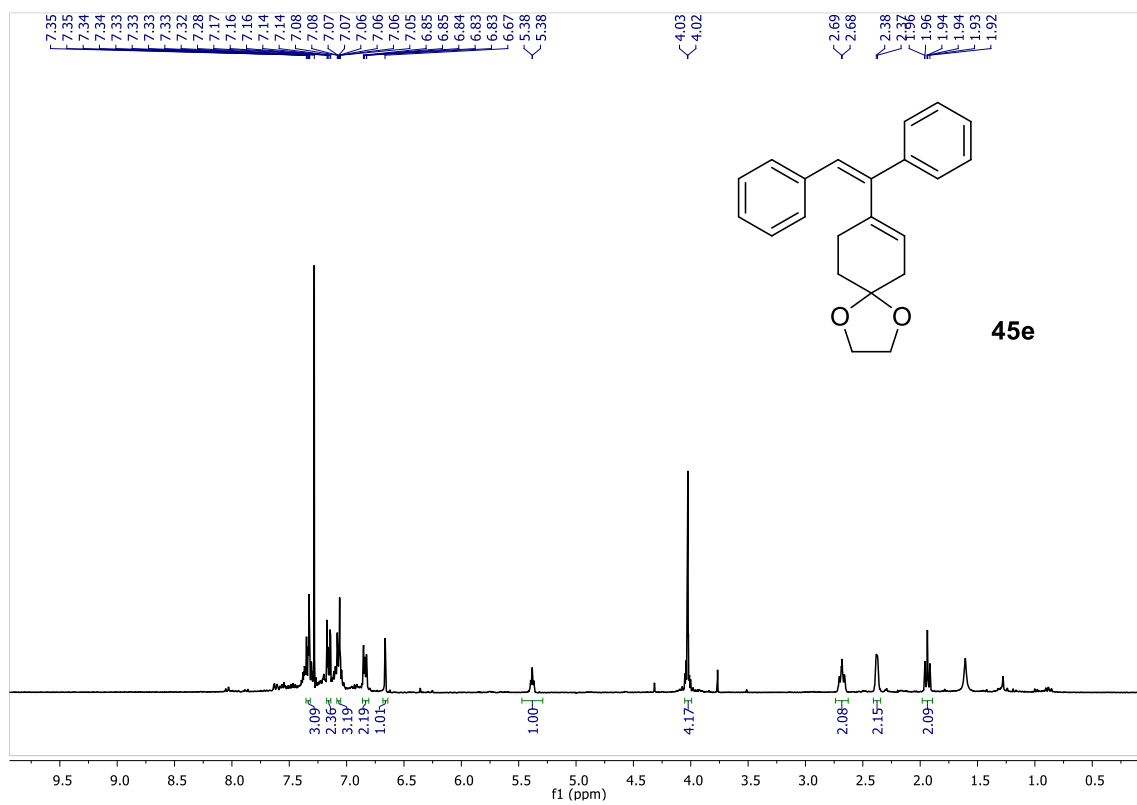
(1-(Cyclohex-1-en-1-yl)vinyl)benzene **45b**



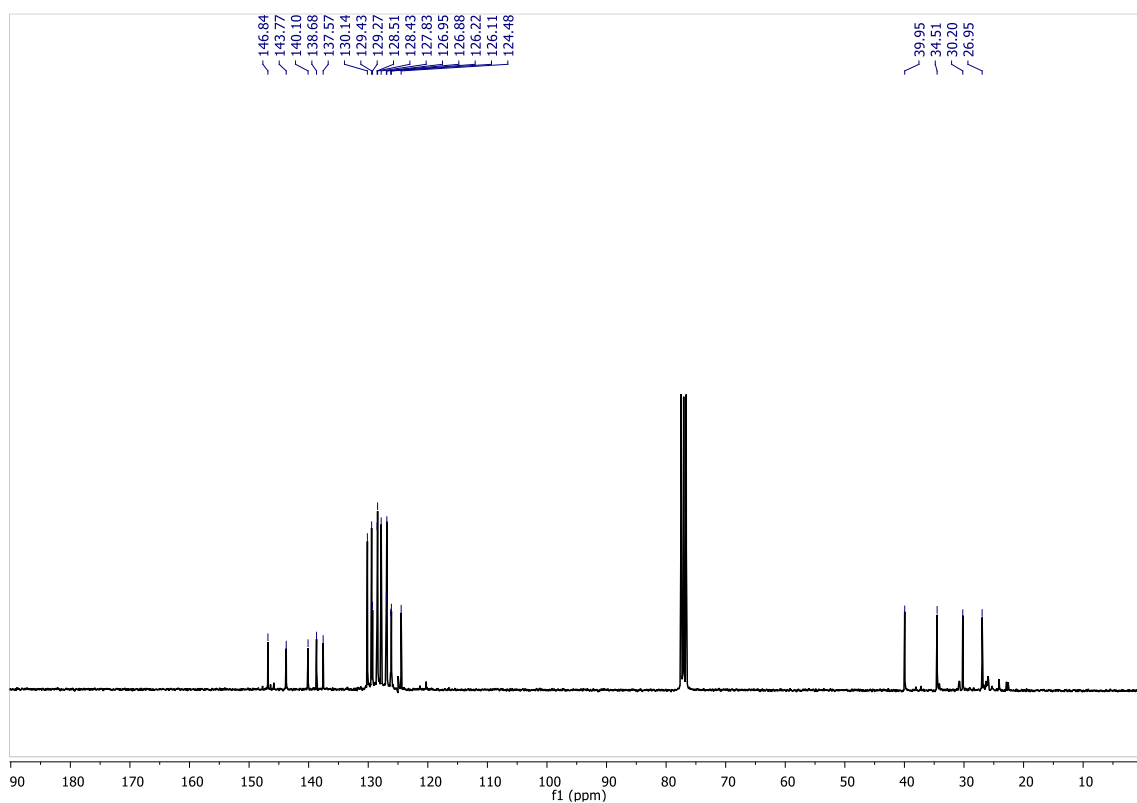
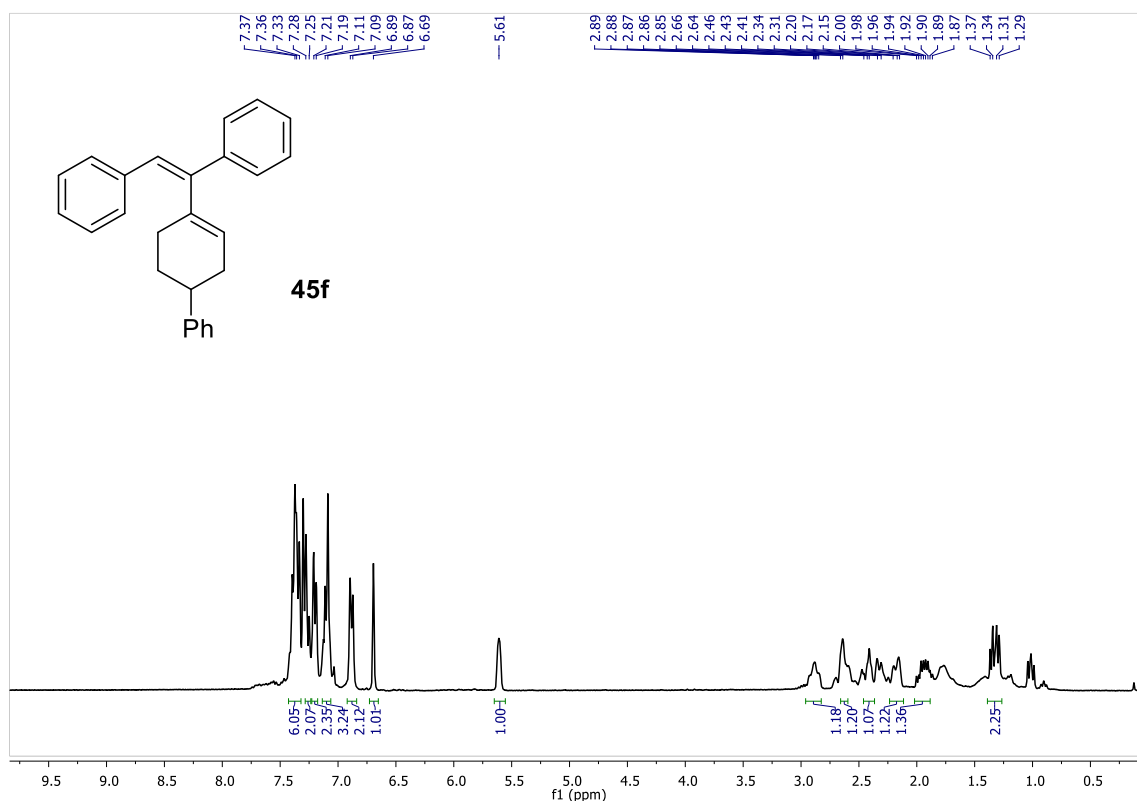
(E)-1-(4,4-Dimethylcyclohex-1-en-1-yl)ethene-1,2-diyl)dibenzene **45d**



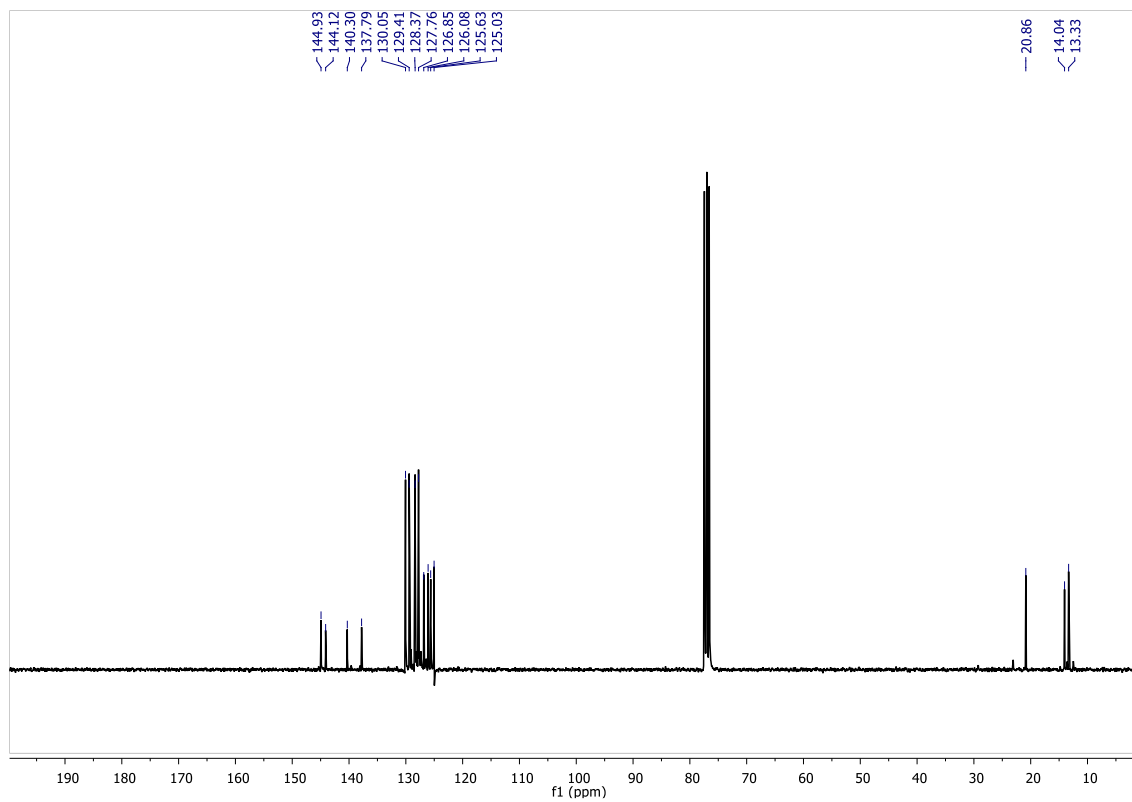
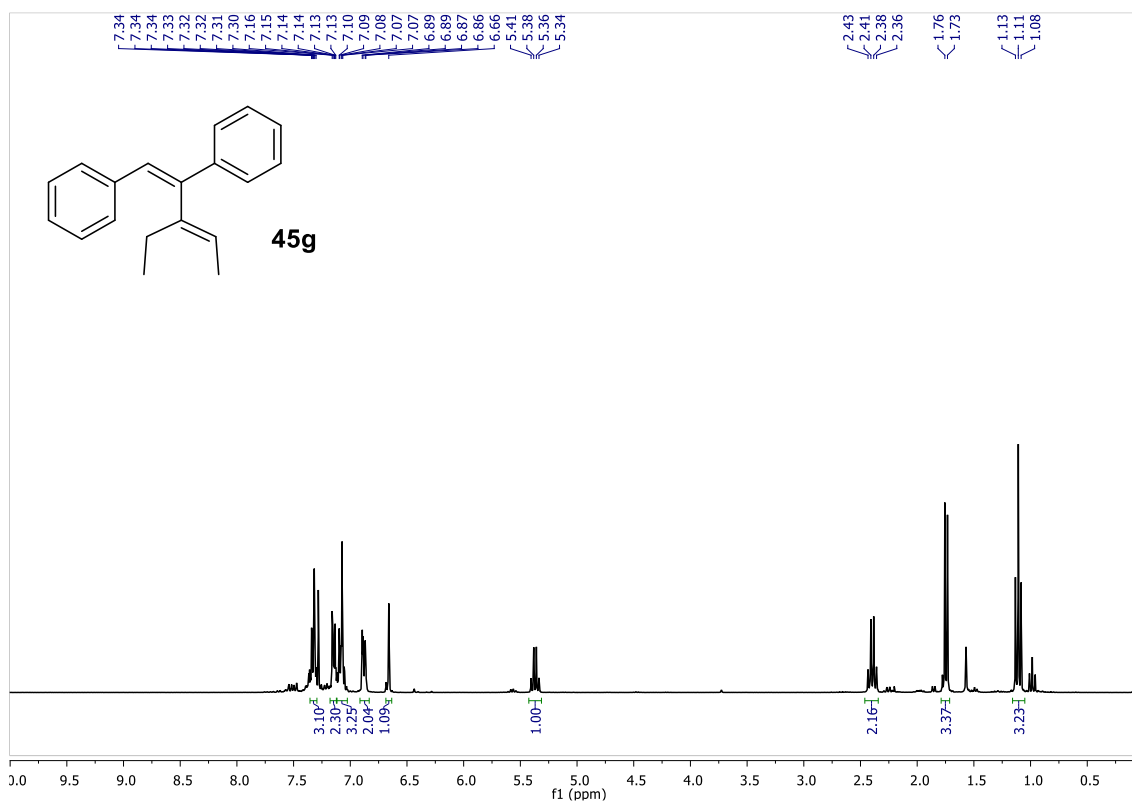
(E)-8-(1,2-Diphenylvinyl)-1,4-dioxaspiro[4.5]dec-7-ene 45e



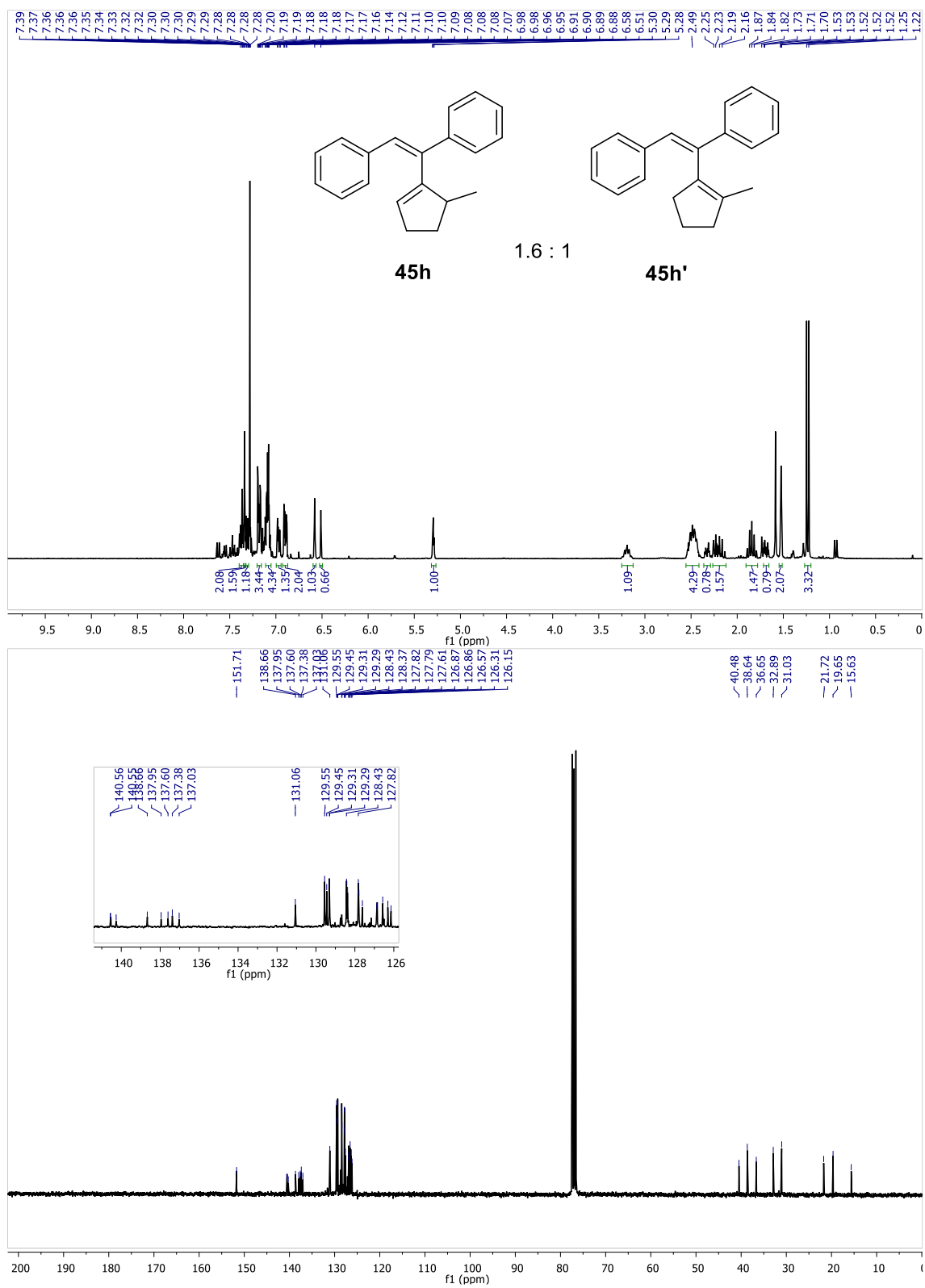
(E)-4-(1,2-Diphenylvinyl)-1,2,3,6-tetrahydro-1,1'-biphenyl 45f



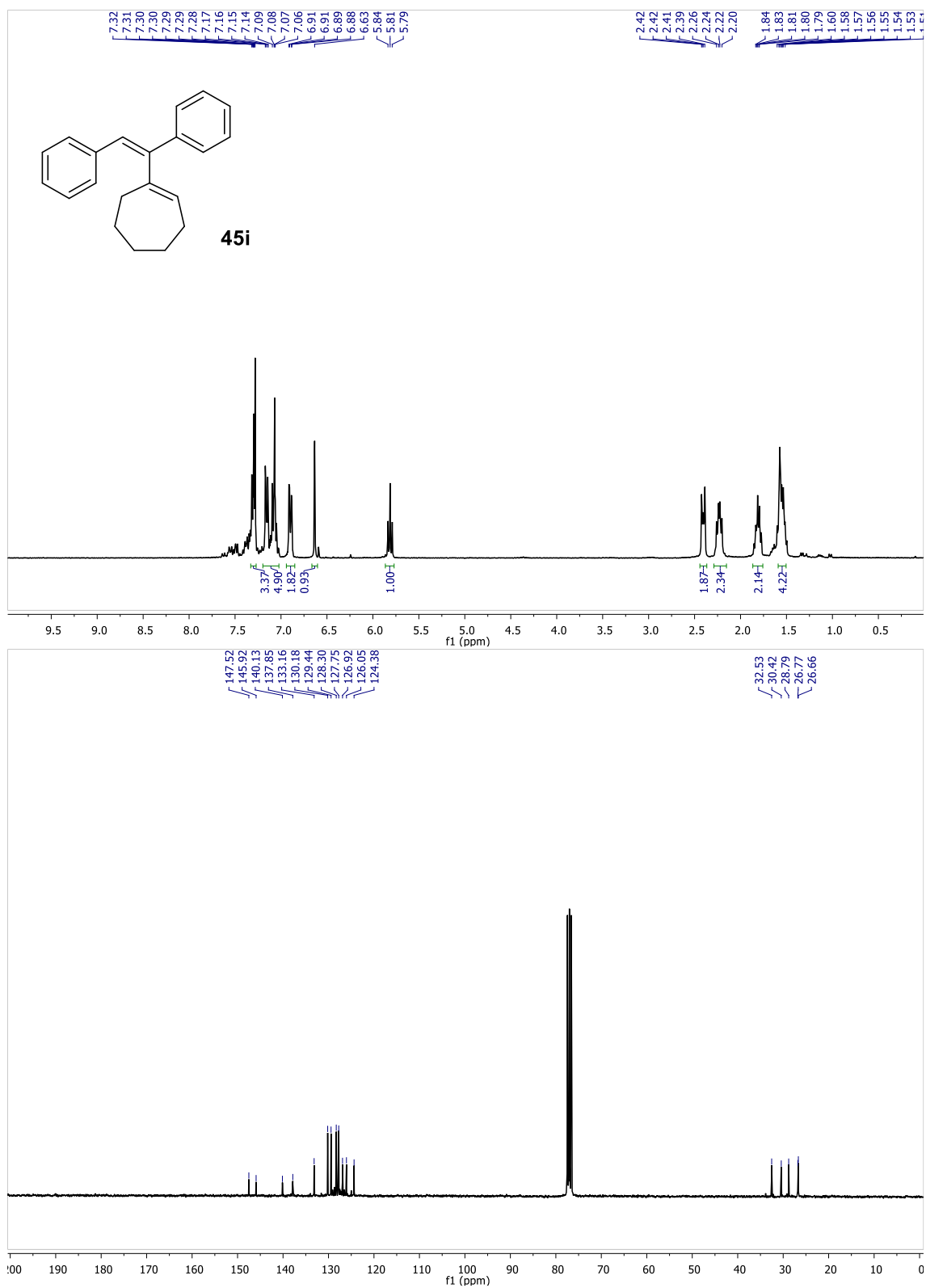
((1E,3E)-3-Ethylpenta-1,3-diene-1,2-diyl)dibenzene 45g



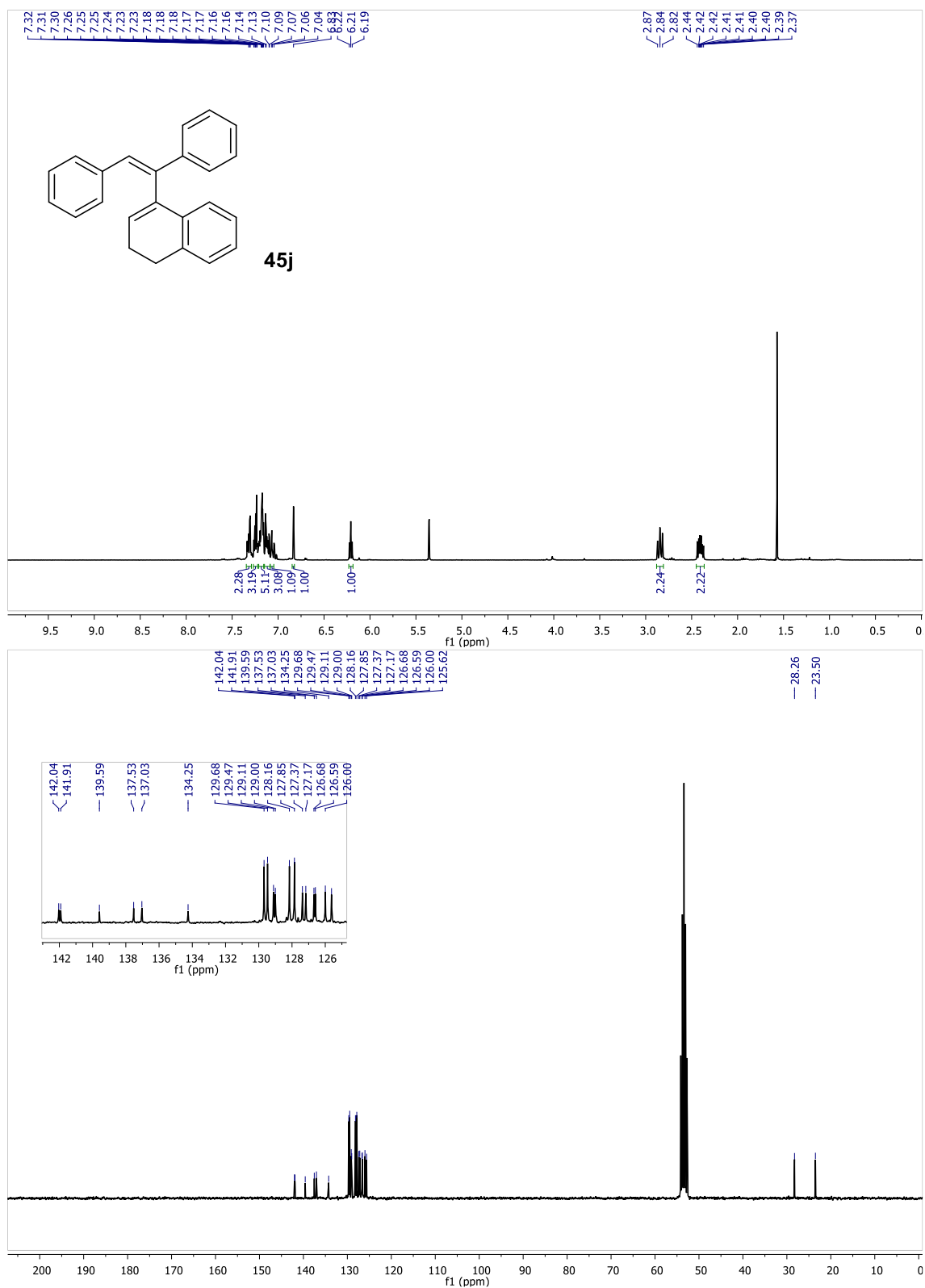
(E)-(1-(5-Methylcyclopent-1-en-1-yl)ethene-1,2-diyl)dibenzene 45h and (Z)-(1-(2-Methylcyclopent-1-en-1-yl)ethene-1,2-diyl)dibenzene 45h'



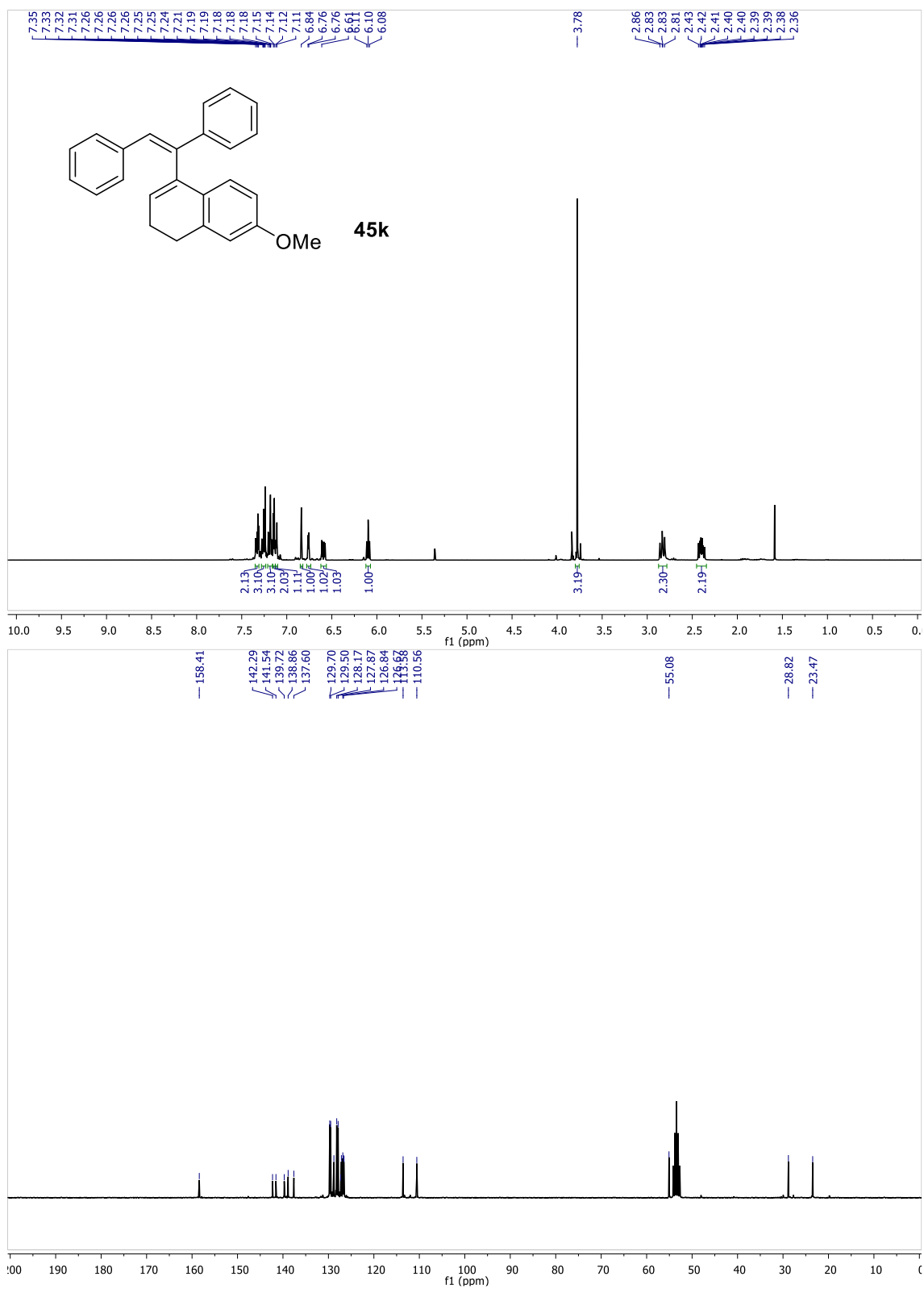
(E)-1-(1,2-Diphenylvinyl)cyclohept-1-ene 45i



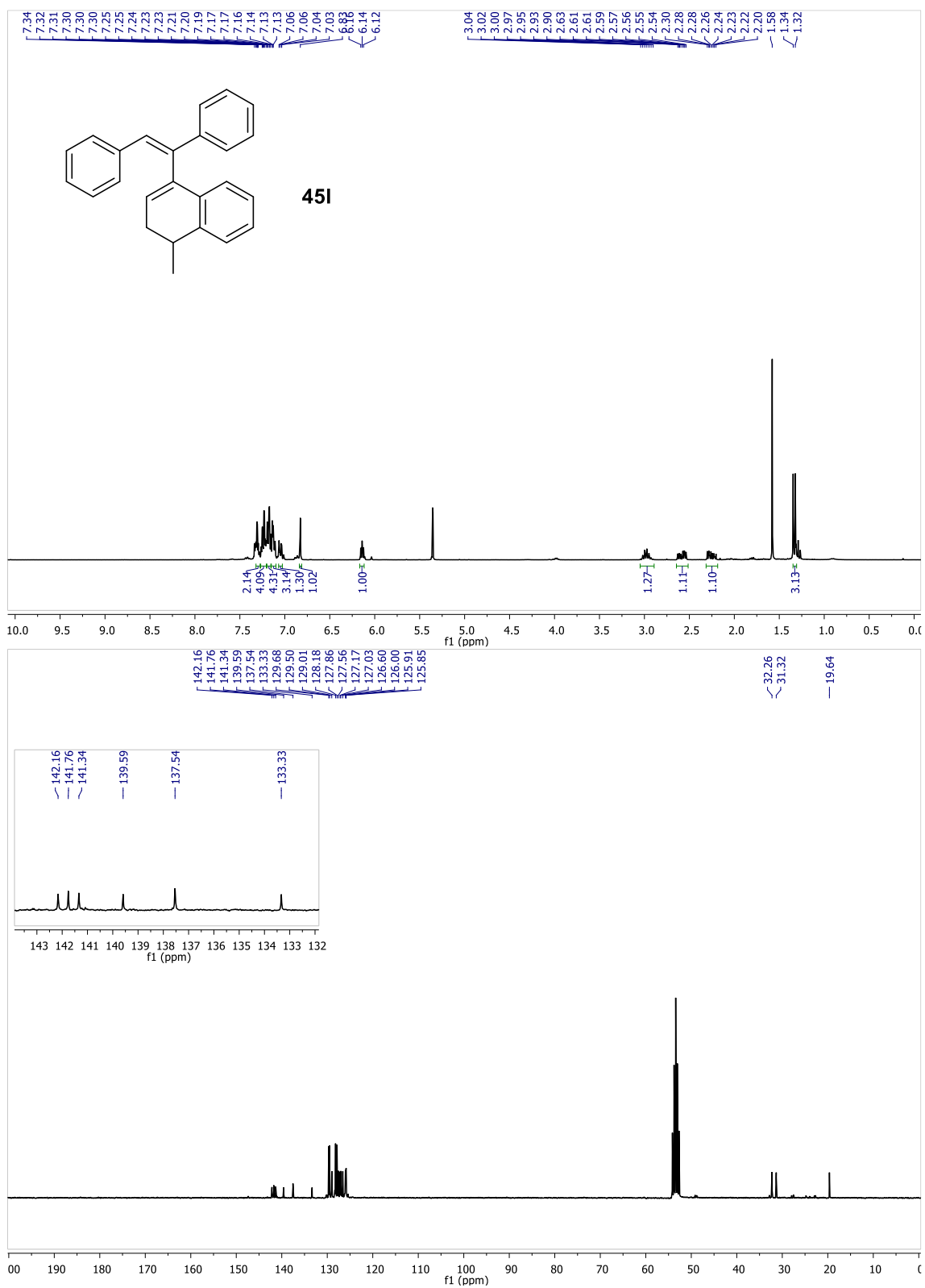
(Z)-4-(1,2-Diphenylvinyl)-1,2-dihydronaphthalene 45j



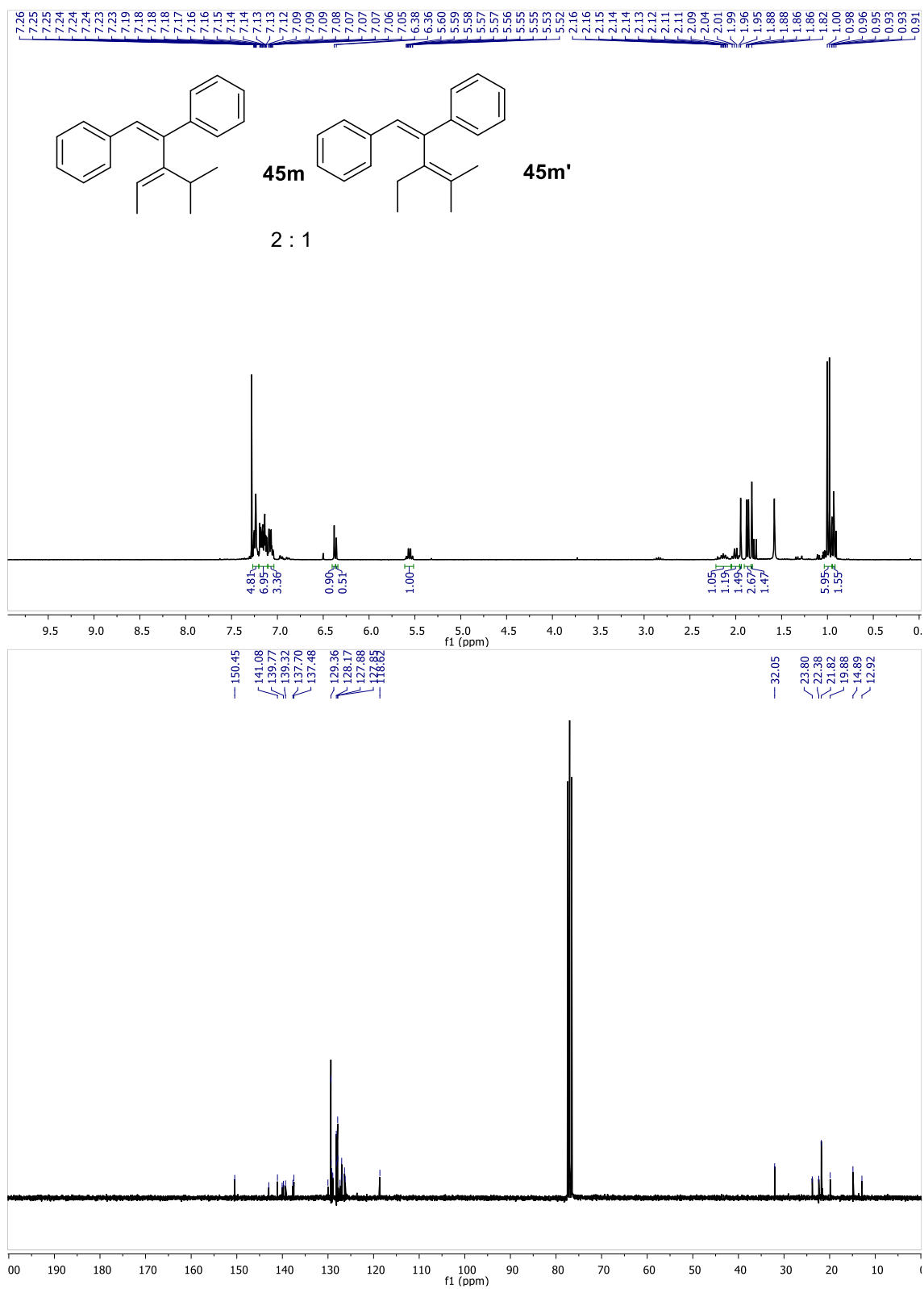
(Z)-4-(1,2-Diphenylvinyl)-7-methoxy-1,2-dihydronaphthalene 45k



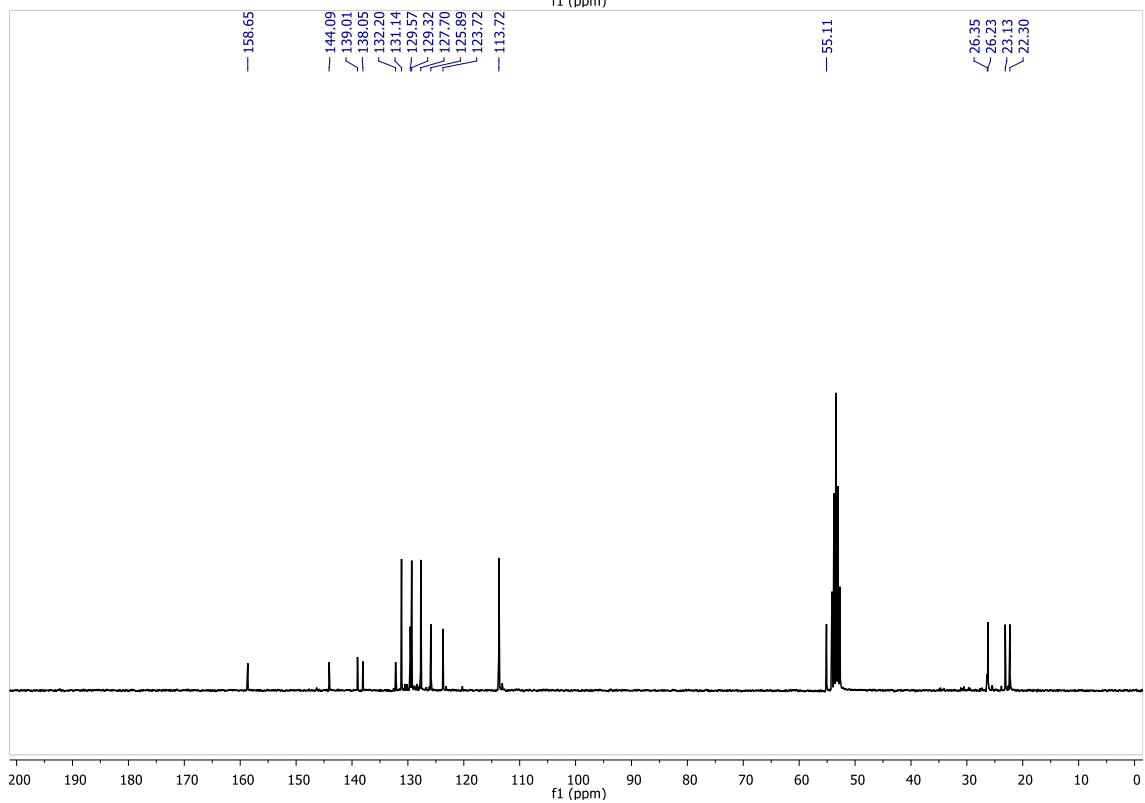
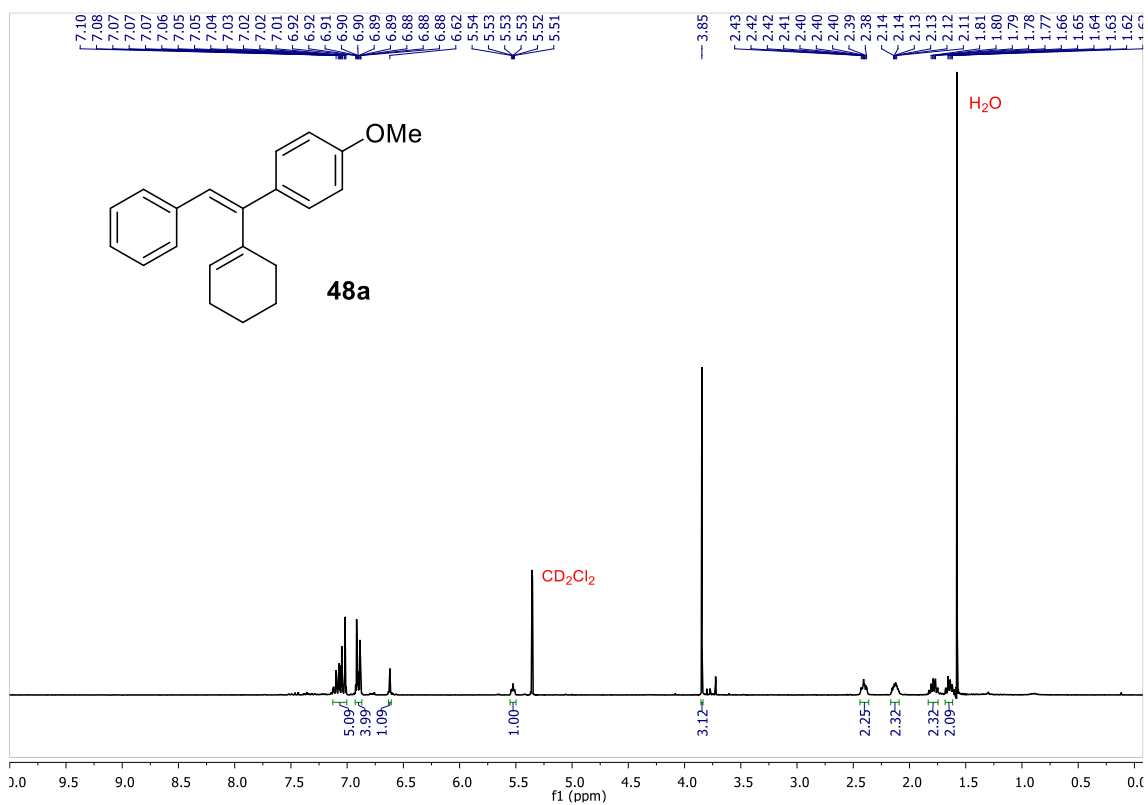
(Z)-4-(1,2-Diphenylvinyl)-1-methyl-1,2-dihydronaphthalene **45I**



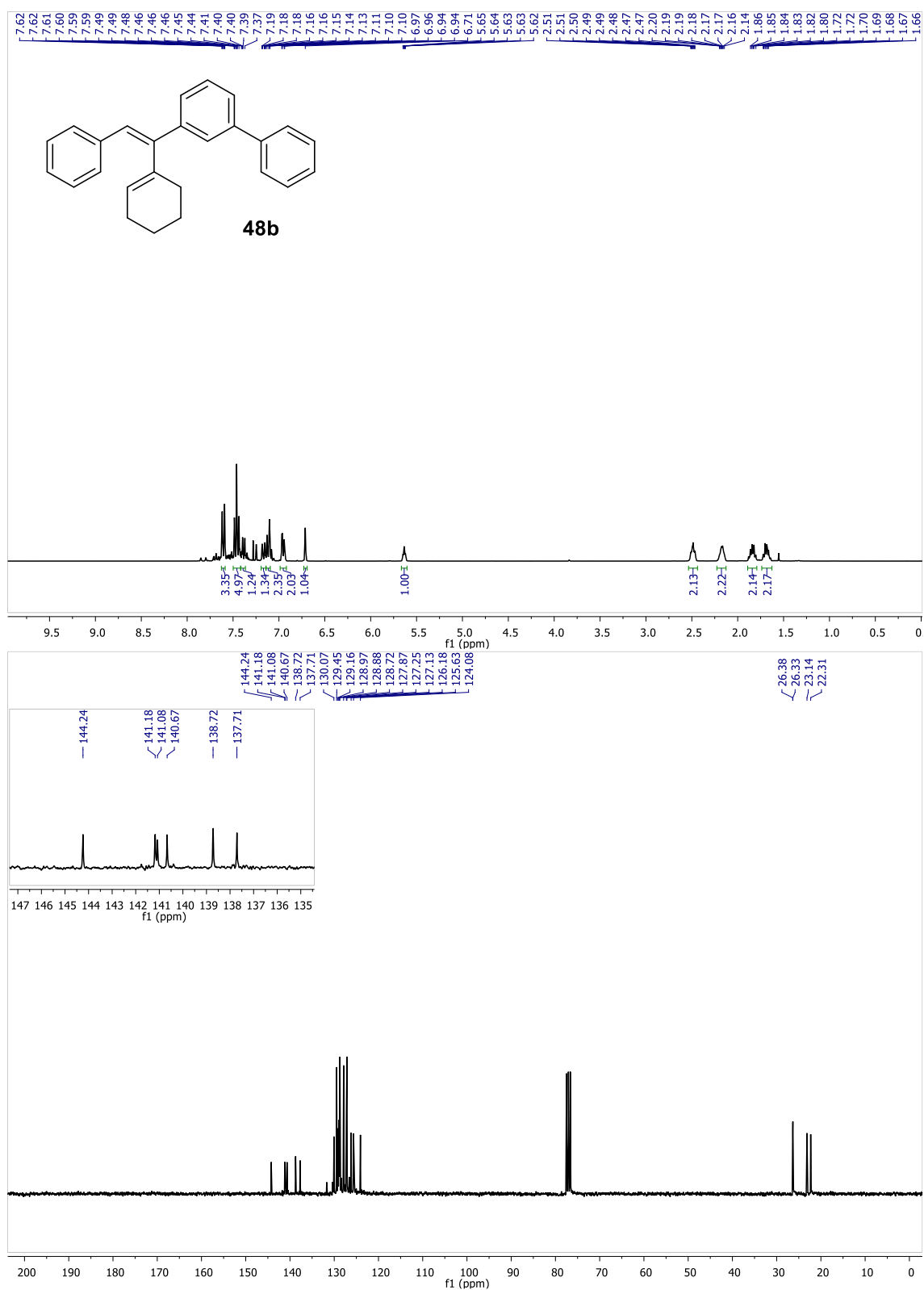
((1*E*,3*E*)-3-Isopropylpenta-1,3-diene-1,2-diyl)dibenzene **45m** and (*Z*)-(3-Ethyl-4-methylpenta-1,3-diene-1,2-diyl)dibenzene **45m'**



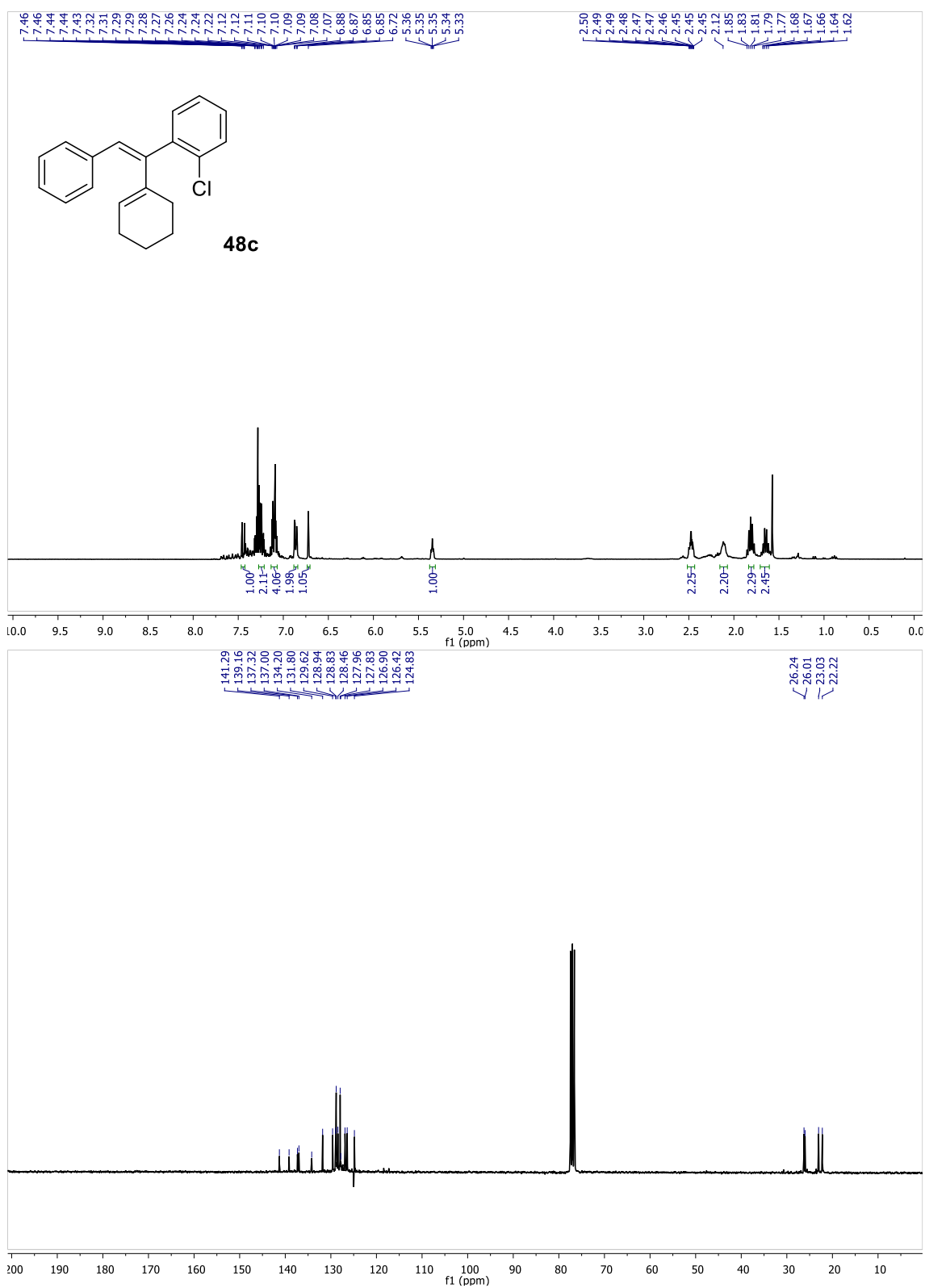
(E)-1-(1-(Cyclohex-1-en-1-yl)-2-phenylvinyl)-4-methoxybenzene **48a**



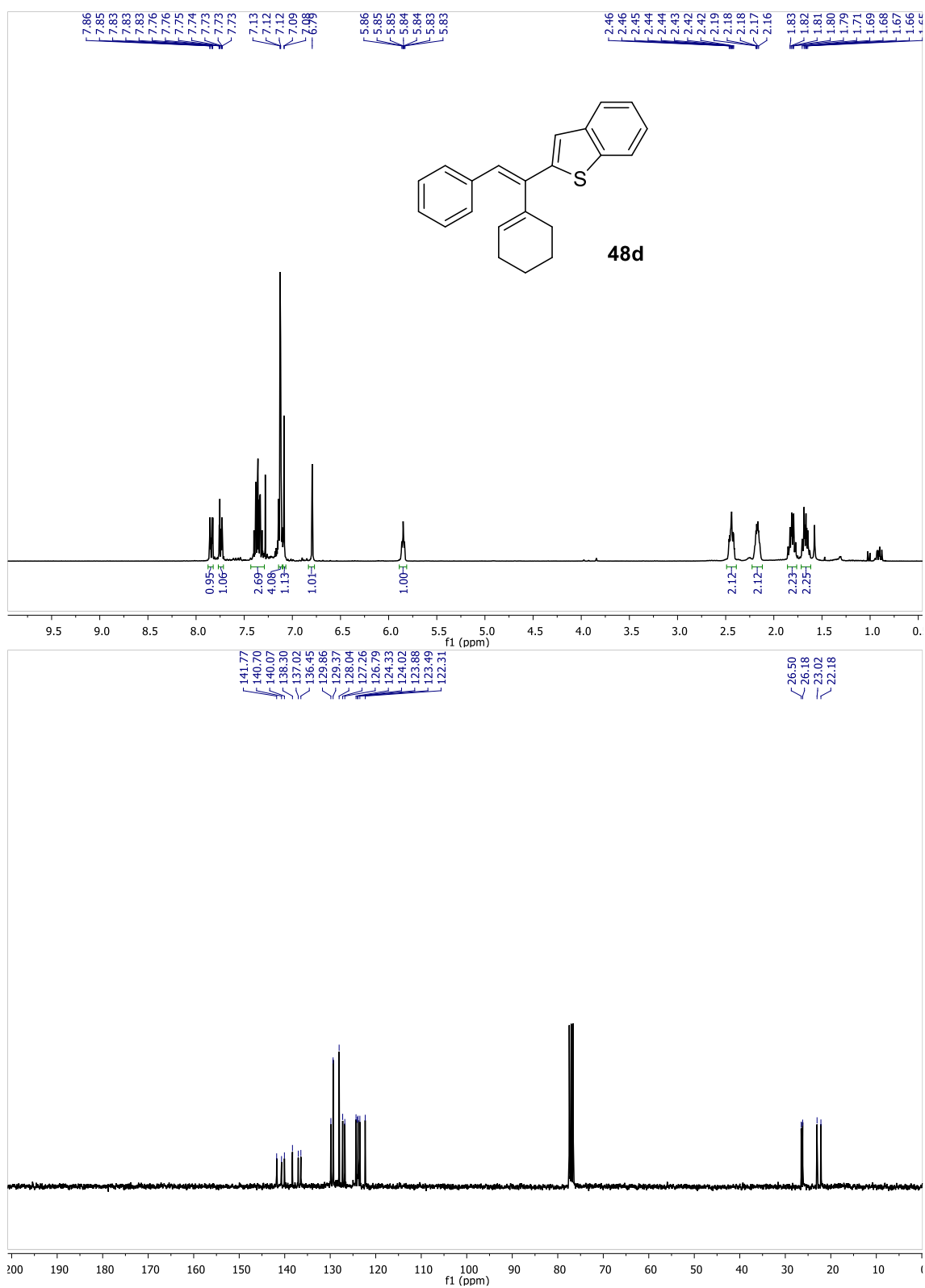
(E)-3-(1-(Cyclohex-1-en-1-yl)-2-phenylvinyl)-1,1'-biphenyl 48b



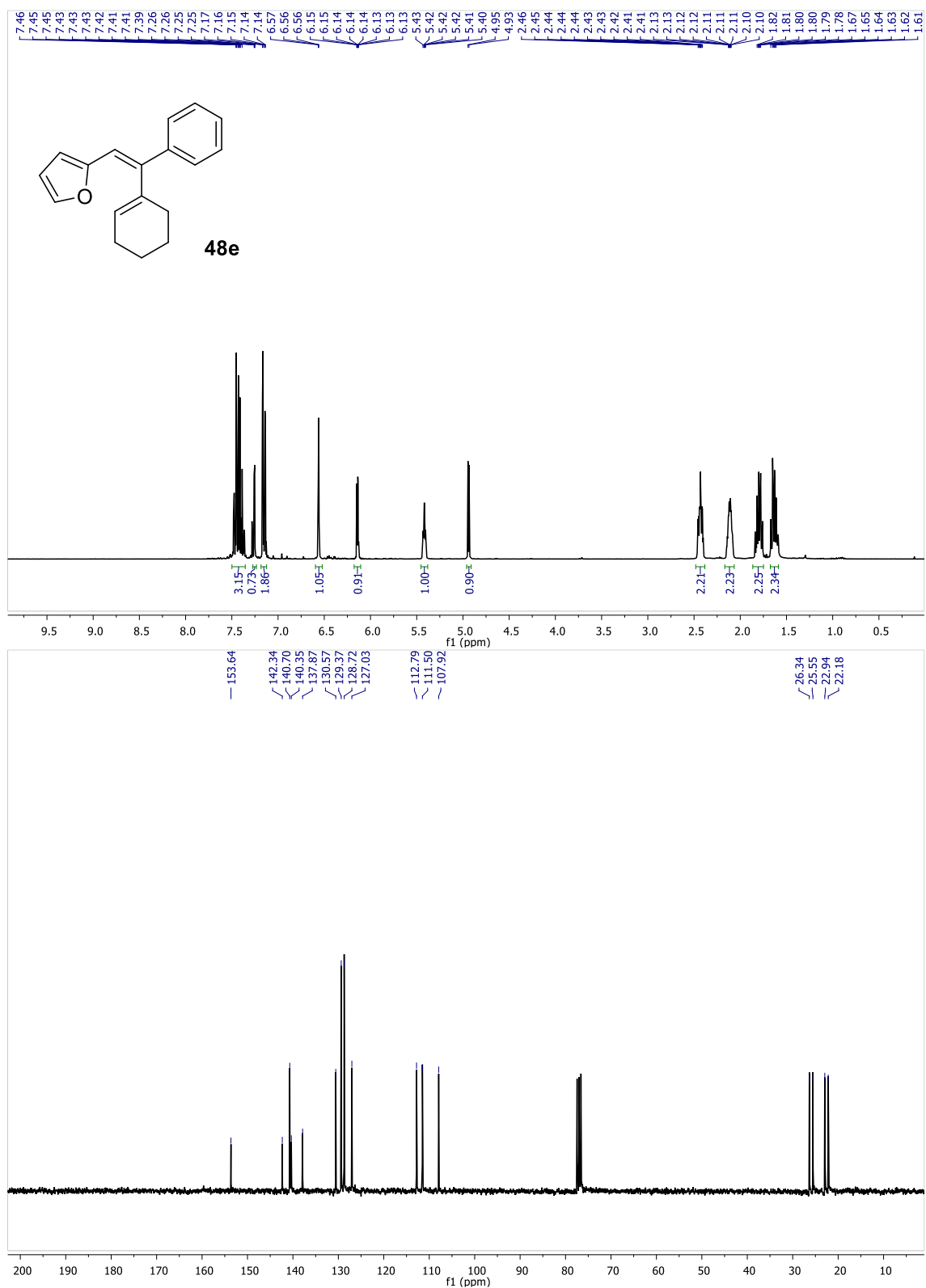
(E)-1-Chloro-2-(1-(cyclohex-1-en-1-yl)-2-phenylvinyl)benzene **48c**



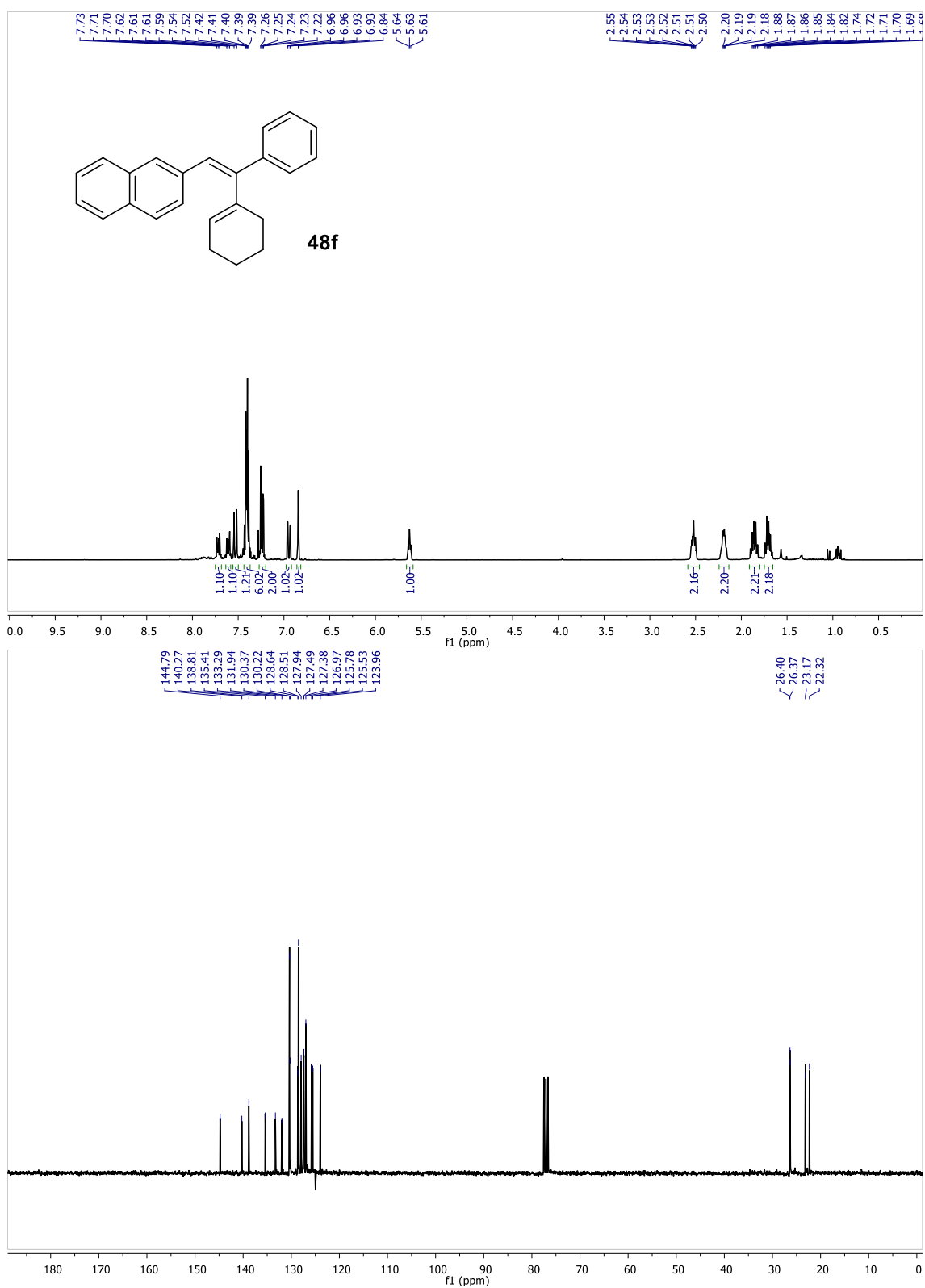
(E)-2-(1-(Cyclohex-1-en-1-yl)-2-phenylvinyl)benzo[b]thiophene **48d**



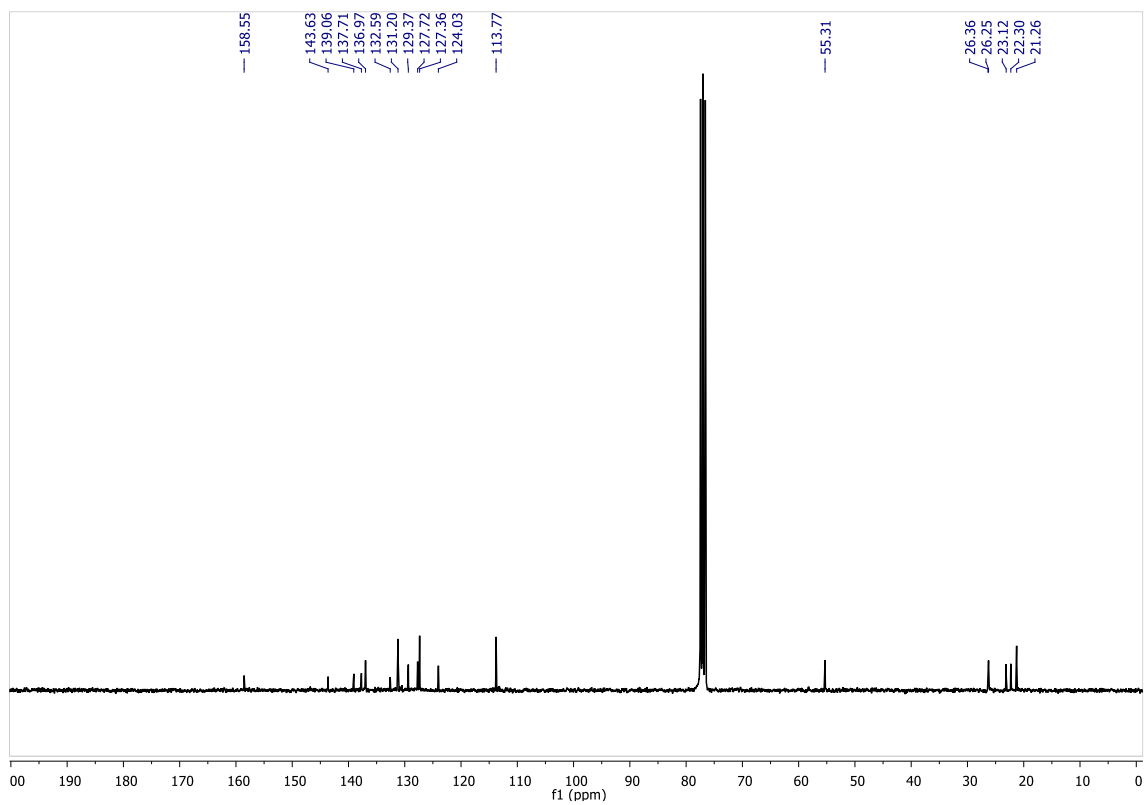
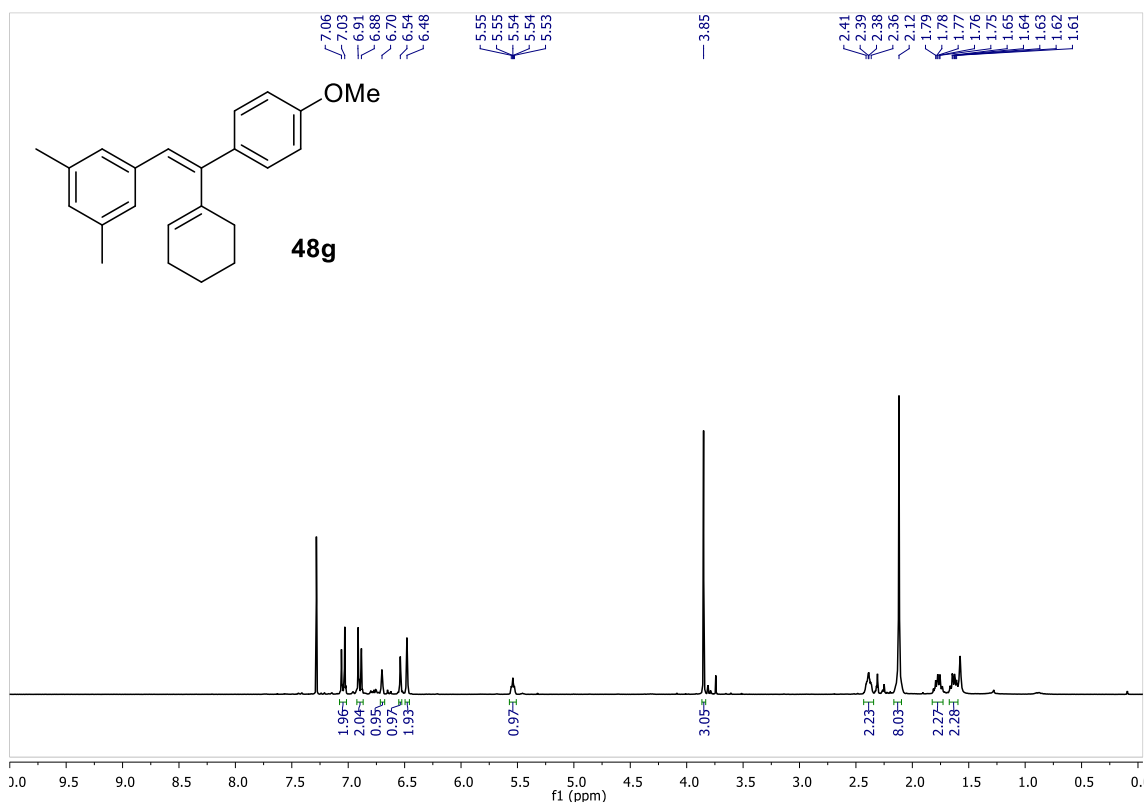
(E)-2-(2-(Cyclohex-1-en-1-yl)-2-phenylvinyl)furan 48e



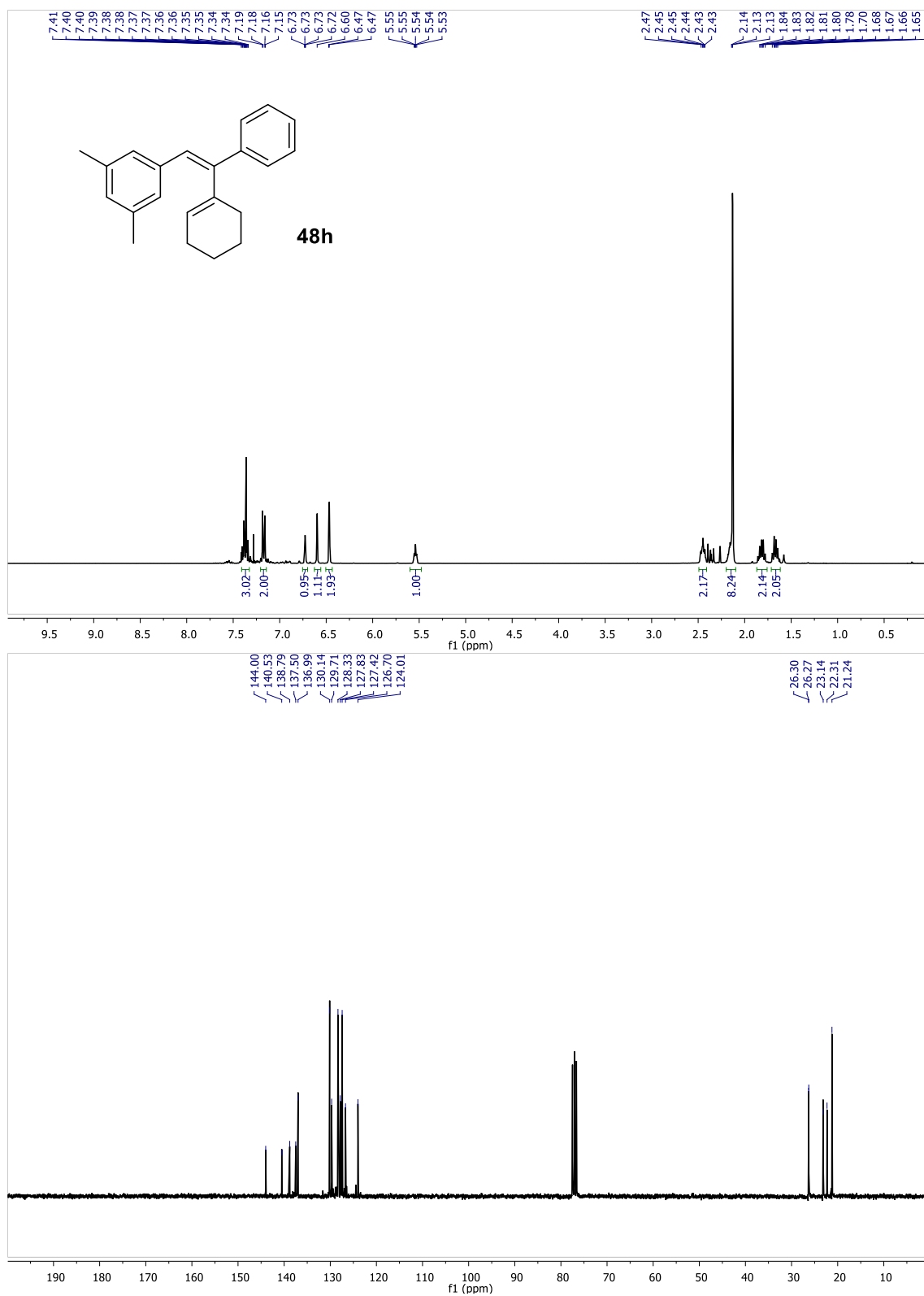
(E)-2-(2-(Cyclohex-1-en-1-yl)-2-phenylvinyl)naphthalene **48f**



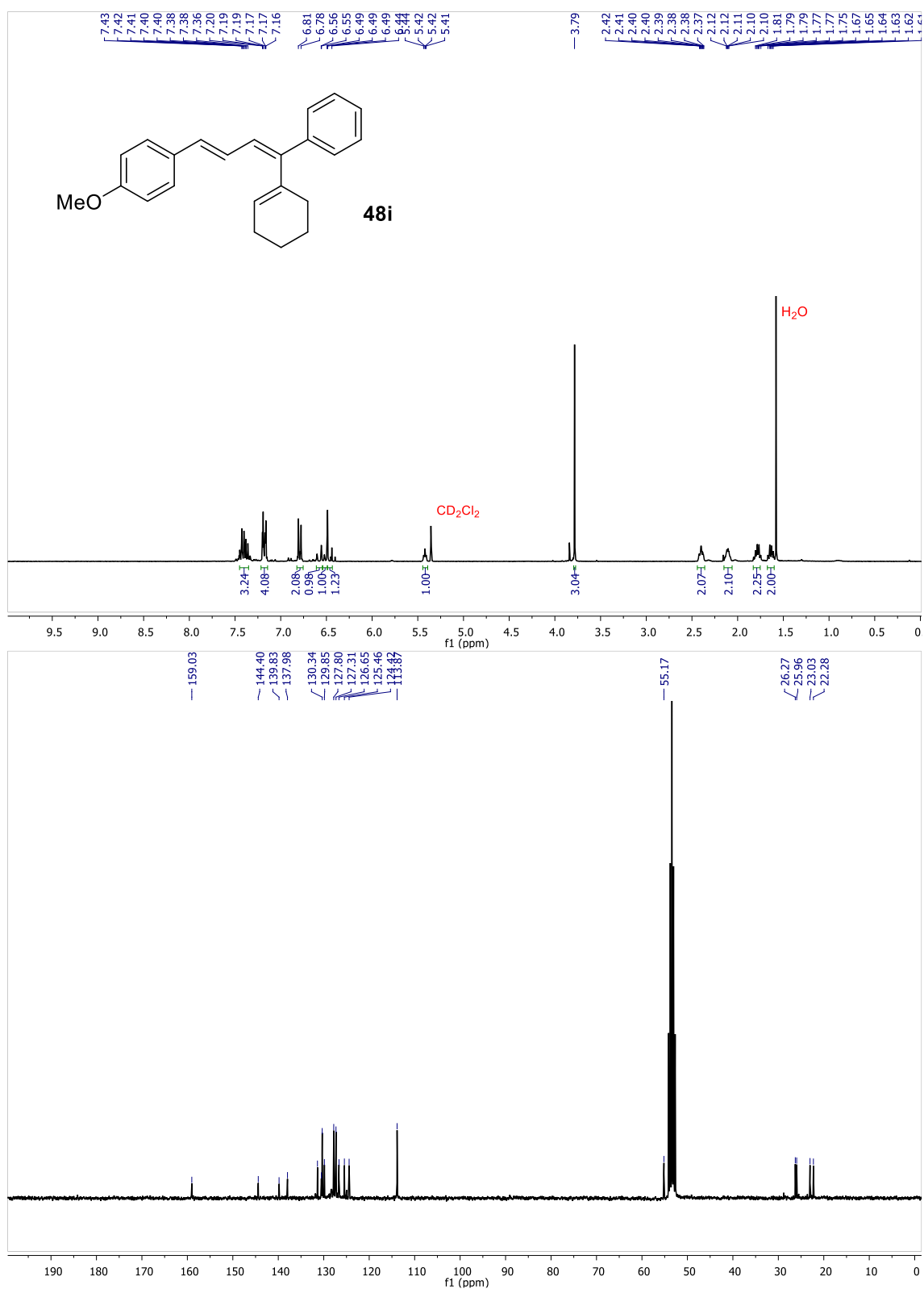
(E)-1-(2-(Cyclohex-1-en-1-yl)-2-(4-methoxyphenyl)vinyl)-3,5-dimethylbenzene 48g



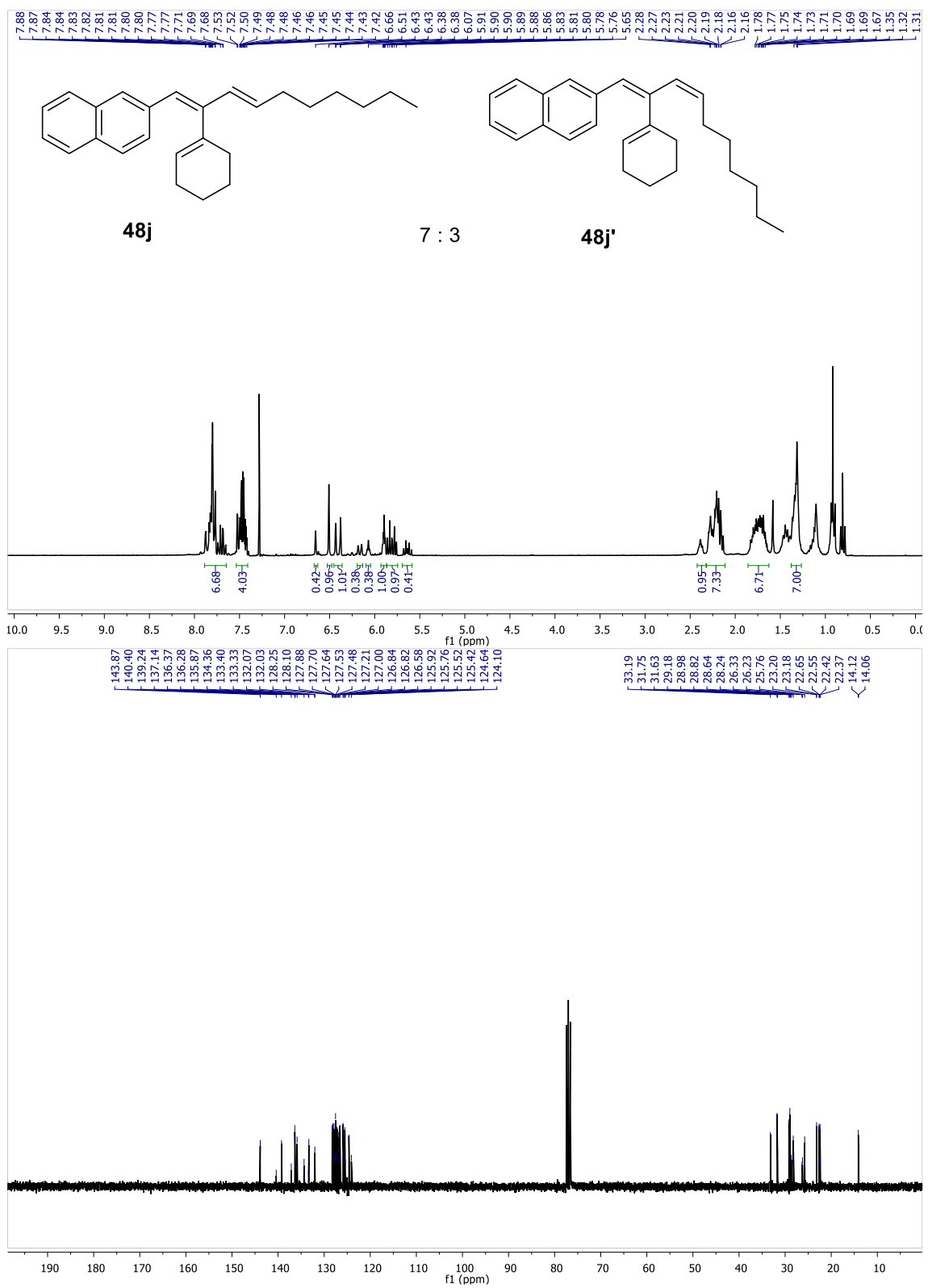
(E)-1-(2-(Cyclohex-1-en-1-yl)-2-phenylvinyl)-3,5-dimethylbenzene 48h



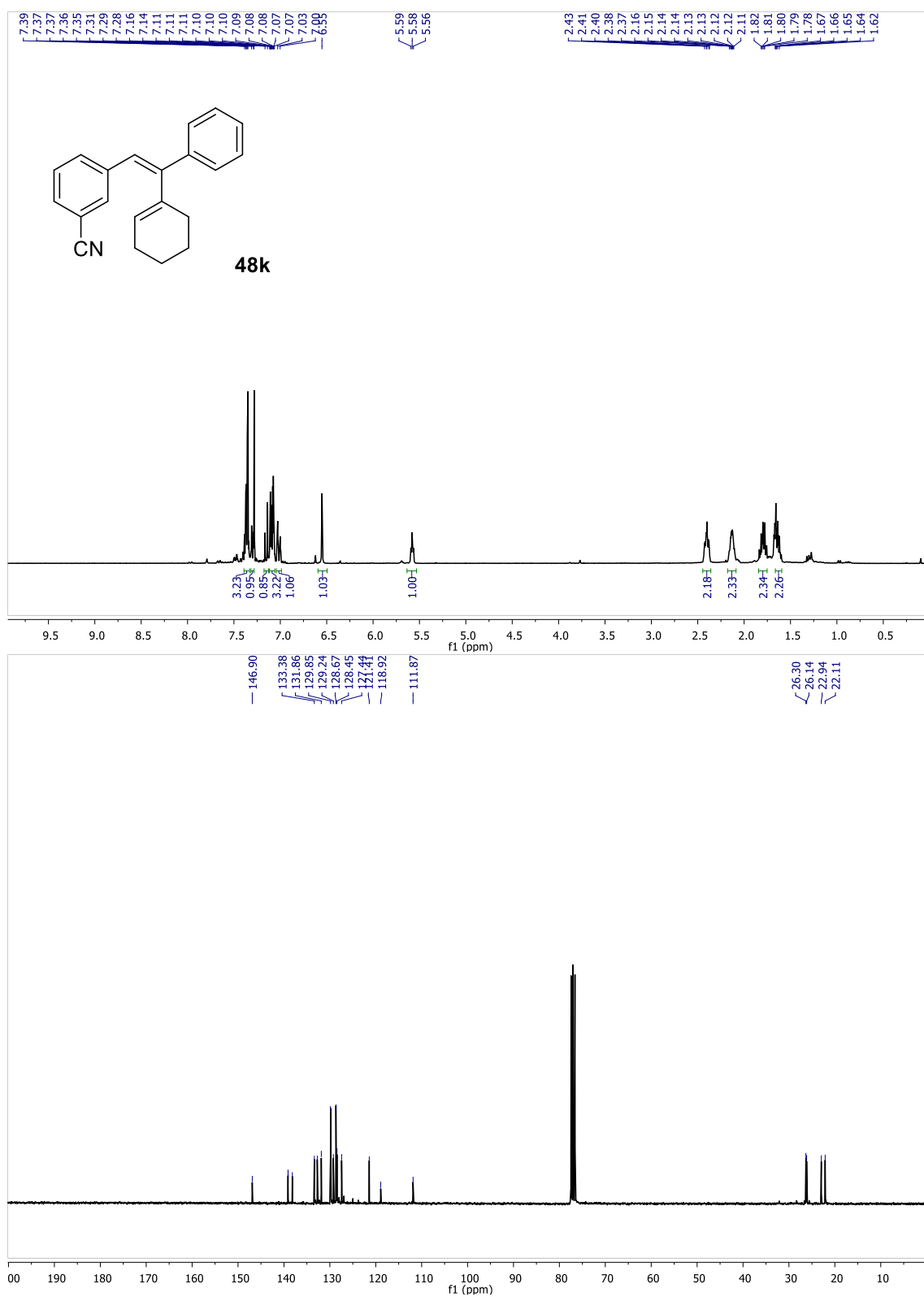
1-((1*E*,3*E*)-4-(Cyclohex-1-en-1-yl)-4-phenylbuta-1,3-dien-1-yl)-4-methoxybenzene **48i**



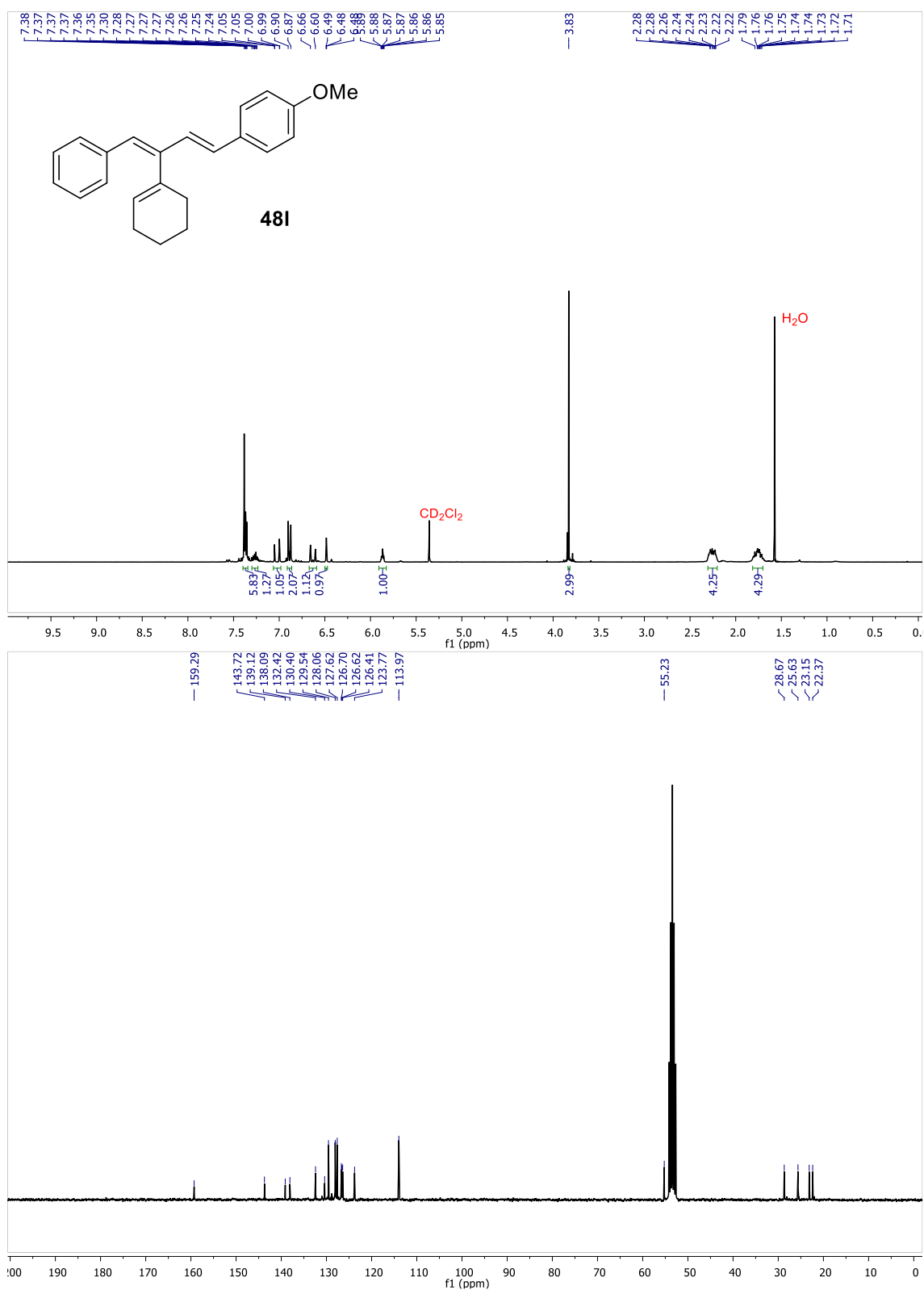
2-((1Z,3E)-2-(Cyclohex-1-en-1-yl)deca-1,3-dien-1-yl)naphthalene **48j** 2-((1Z,3Z)-2-(Cyclohex-1-en-1-yl)deca-1,3-dien-1-yl)naphthalene **48j'**



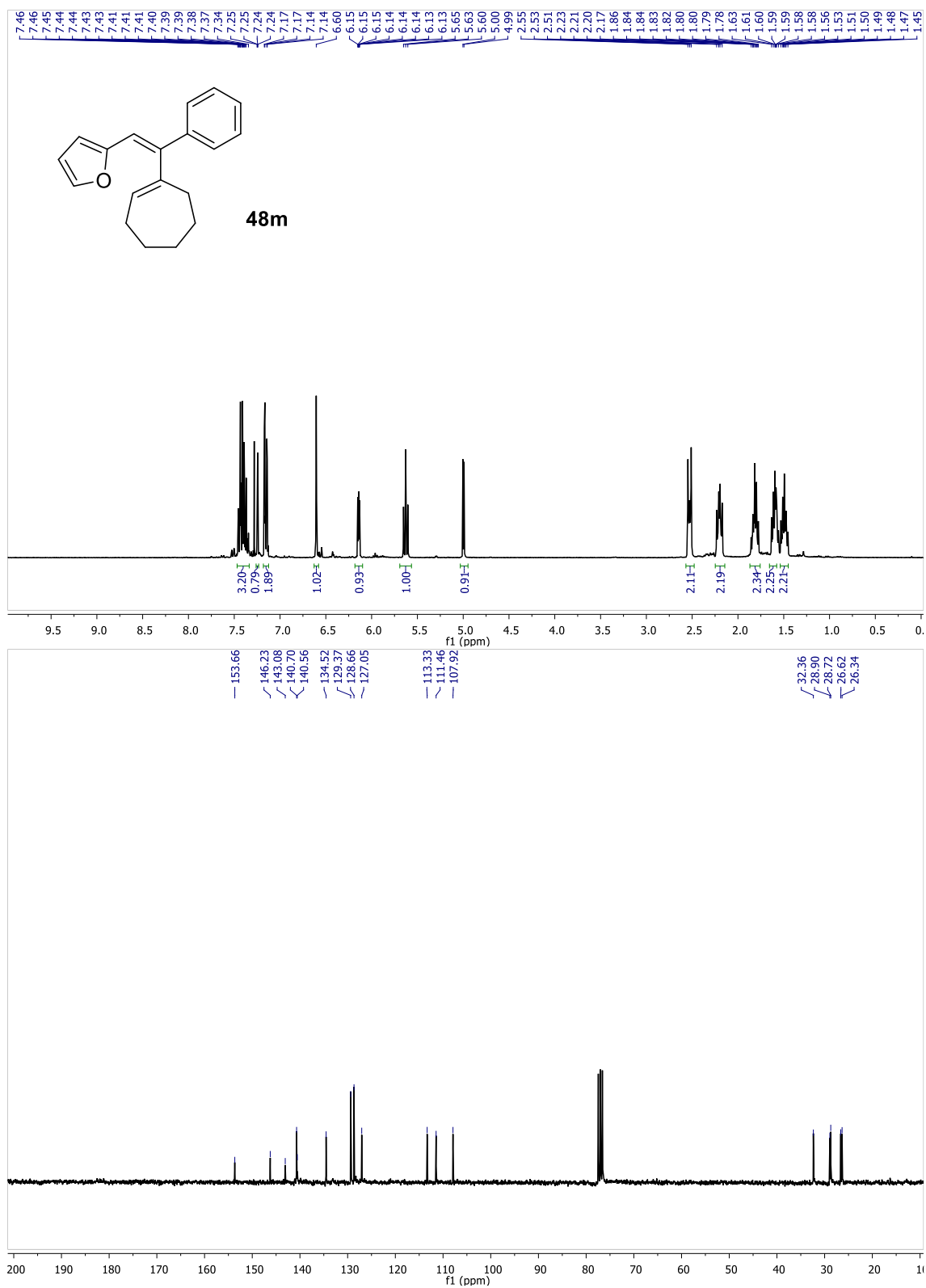
(E)-3-(2-(Cyclohex-1-en-1-yl)-2-phenylvinyl)benzonitrile **48k**



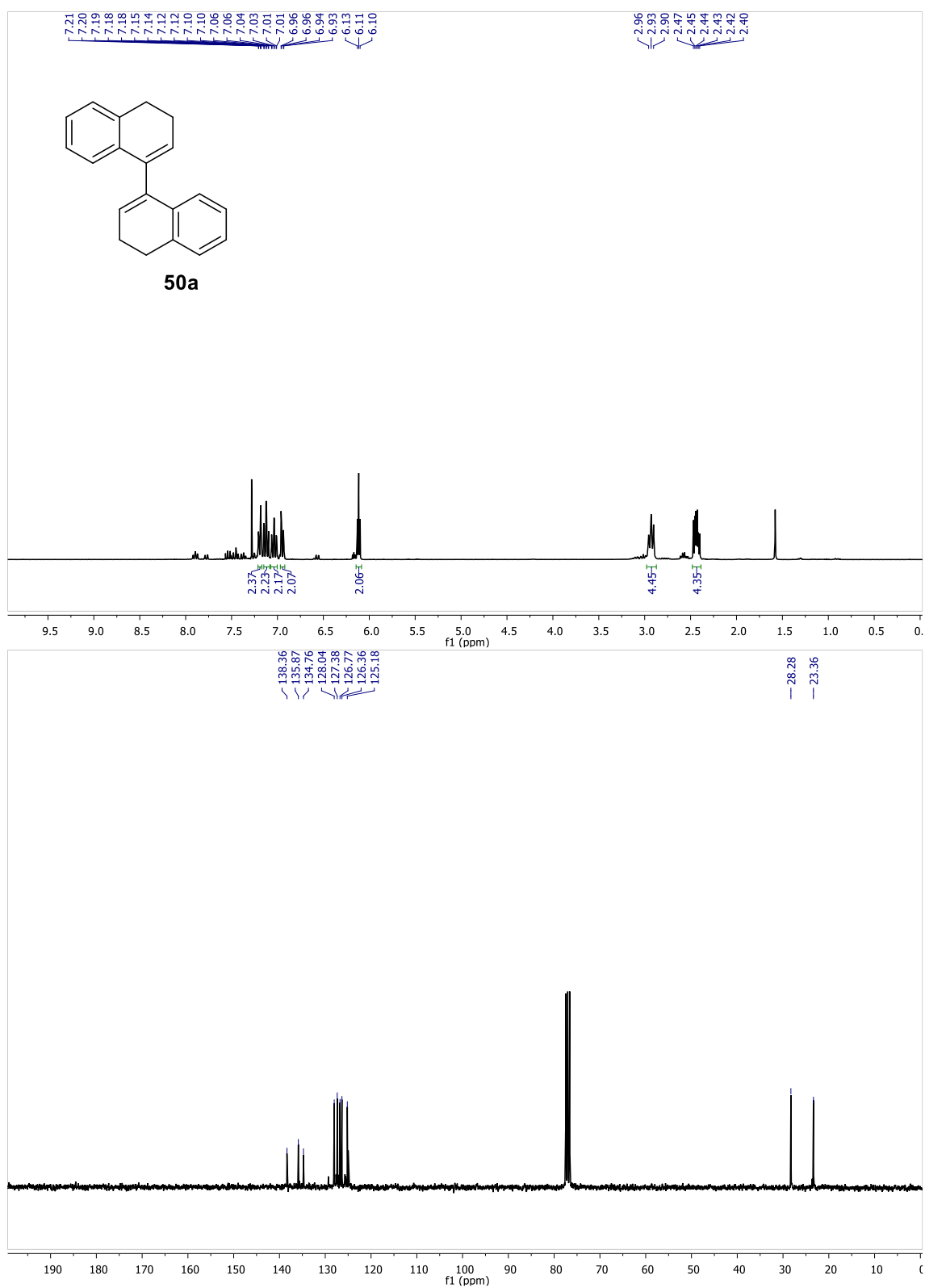
1-((1E,3Z)-3-(Cyclohex-1-en-1-yl)-4-phenylbuta-1,3-dien-1-yl)-4-methoxybenzene **481**



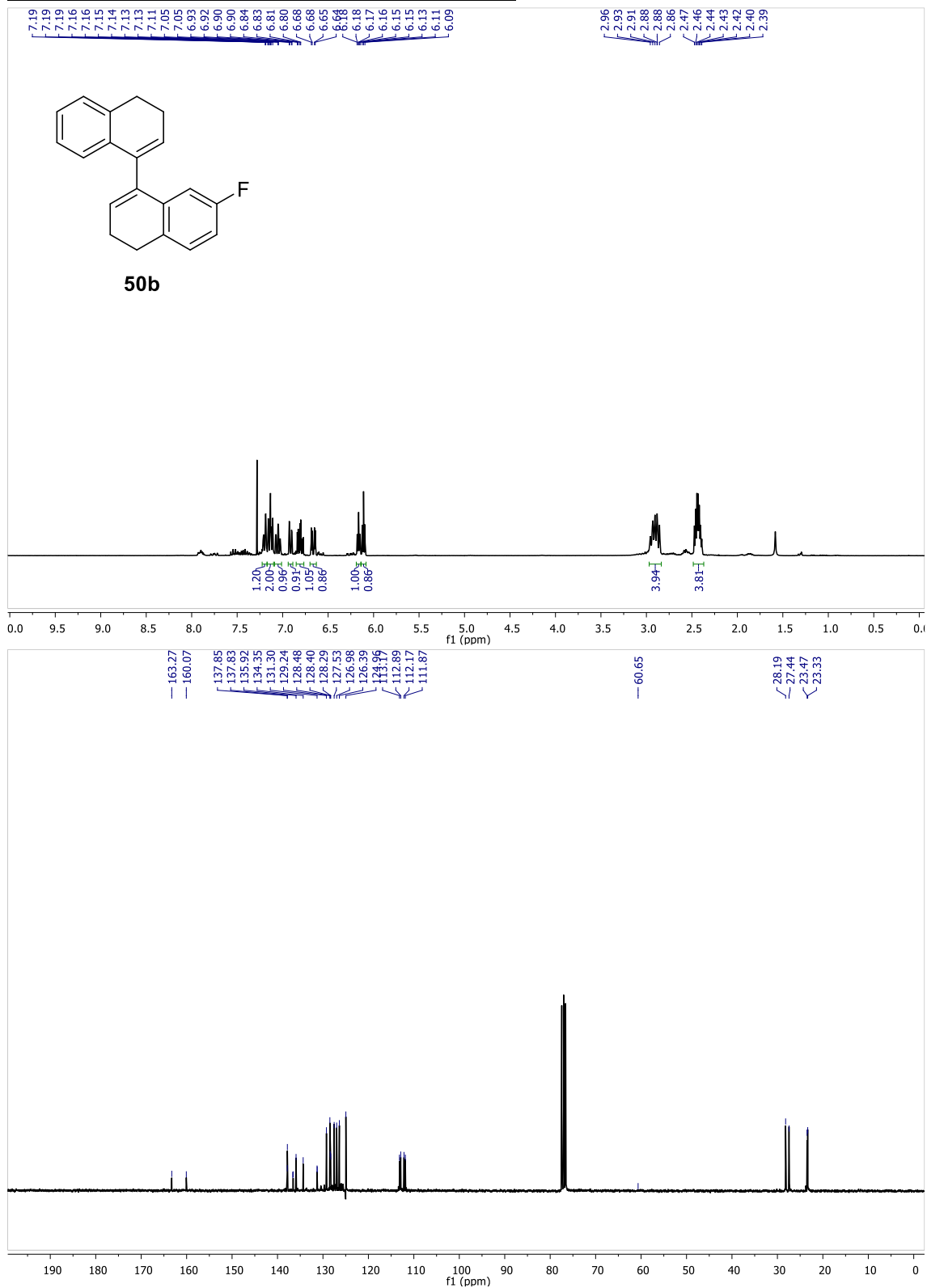
(E)-2-(2-(Cyclohept-1-en-1-yl)-2-phenylvinyl)furan 48m

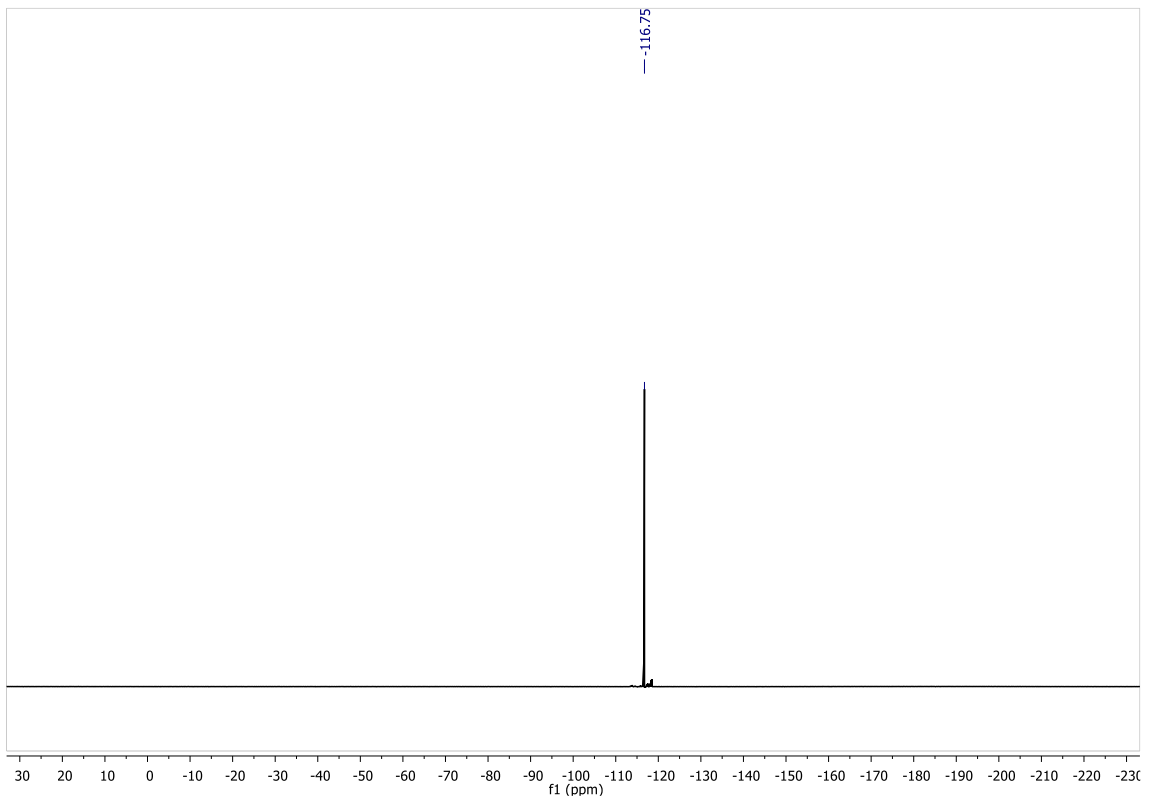


3,3',4,4'-Tetrahydro-1,1'-binaphthalene 50a

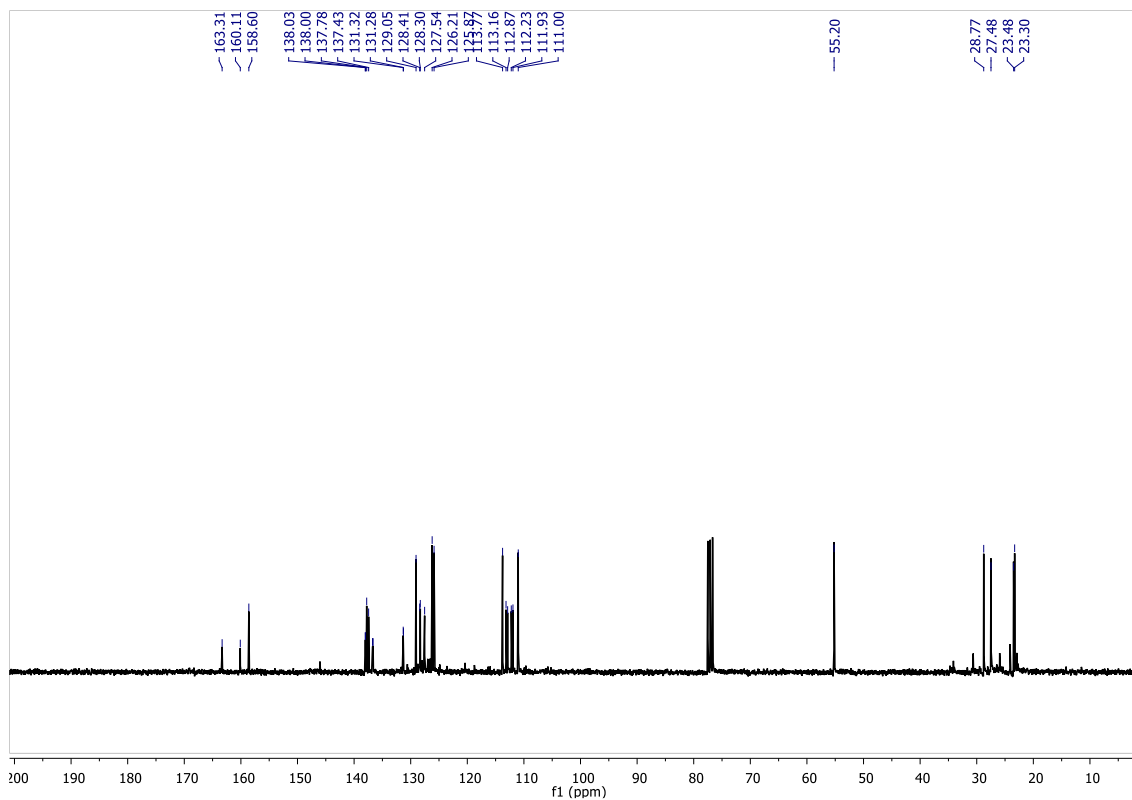
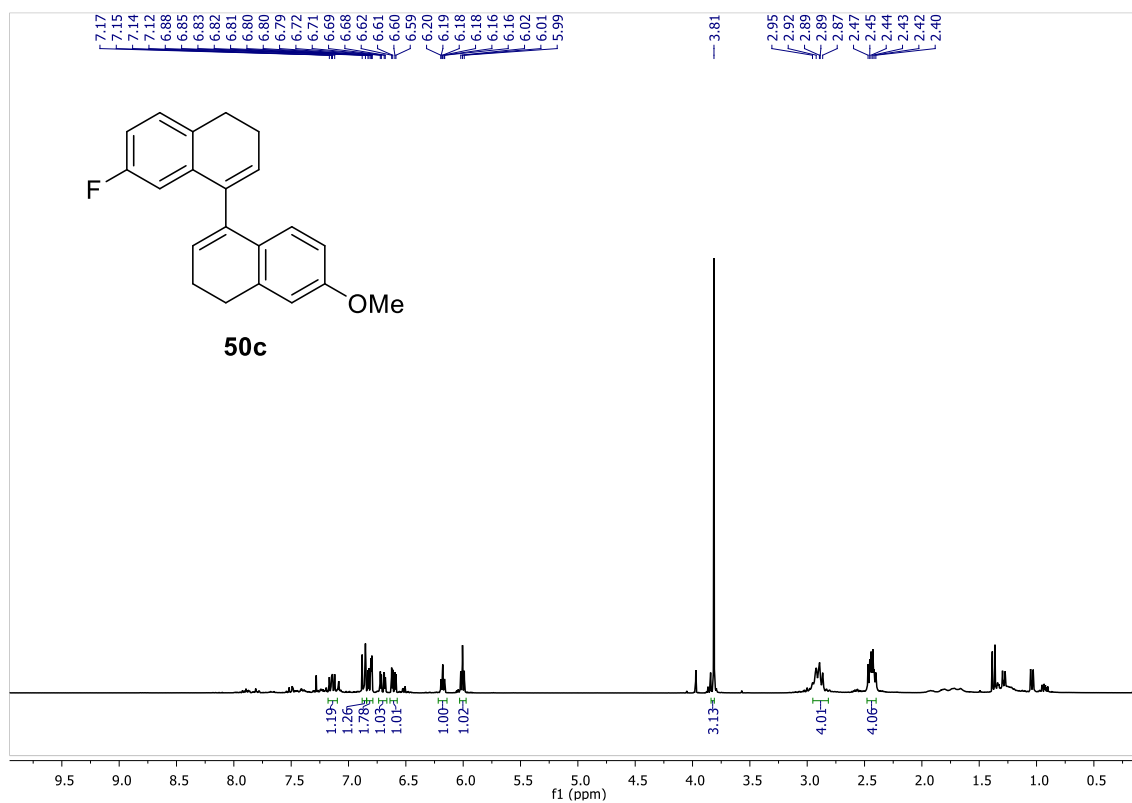


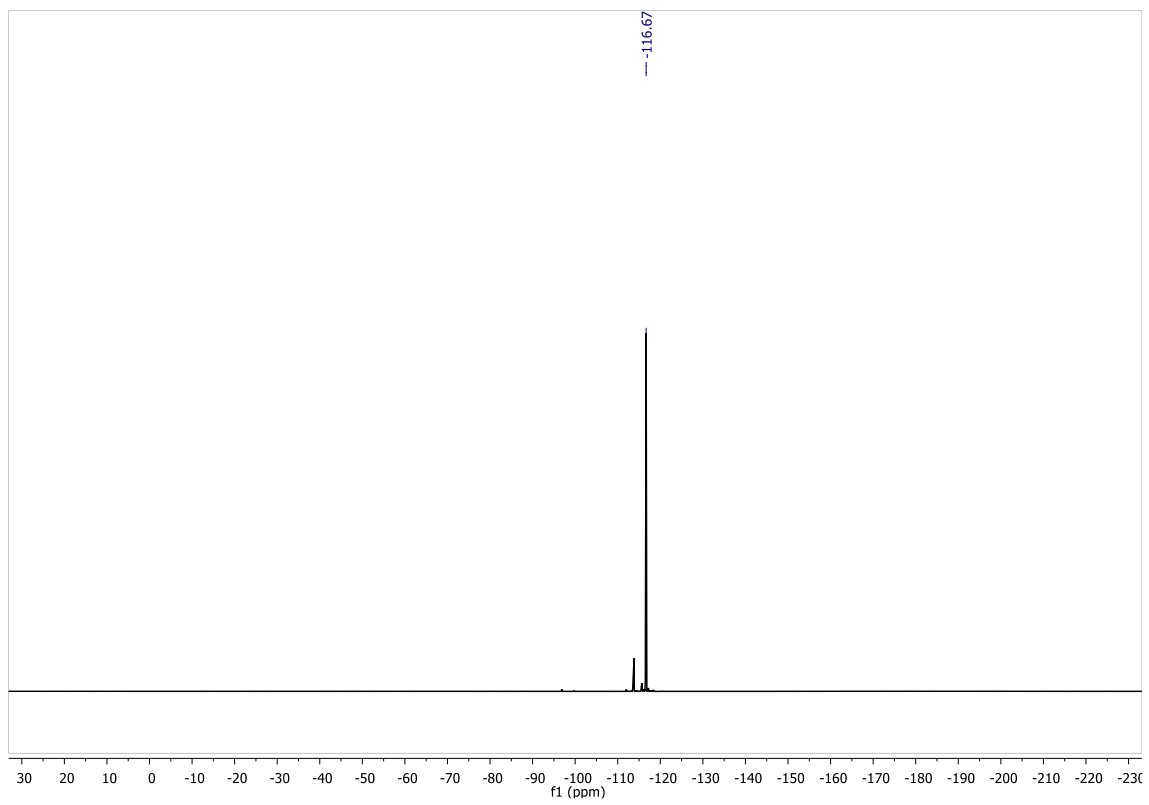
7-Fluoro-3,3',4,4'-tetrahydro-1,1'-binaphthalene **50b**



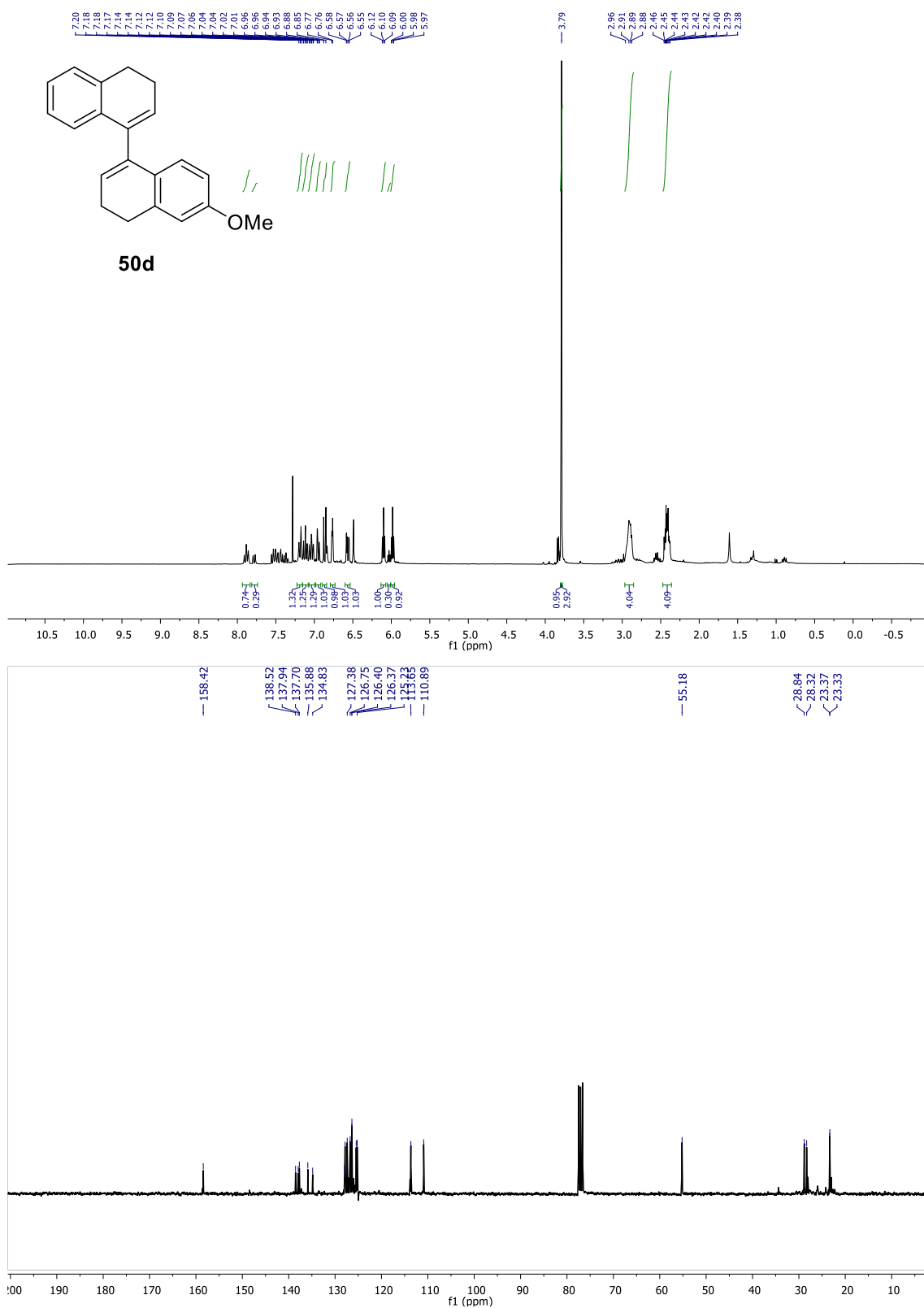


7'-Fluoro-6-methoxy-3,3',4,4'-tetrahydro-1,1'-binaphthalene **50c**





6-Methoxy-3,3',4,4'-tetrahydro-1,1'-binaphthalene **50d**



8-Fluoro-2-phenyl-3a,3b,4,5,14,15,15a,15b-octahydro-1H-dinaphtho[2,1-e:1',2'-g]isoindole-1,3(2H)-dione **51**

