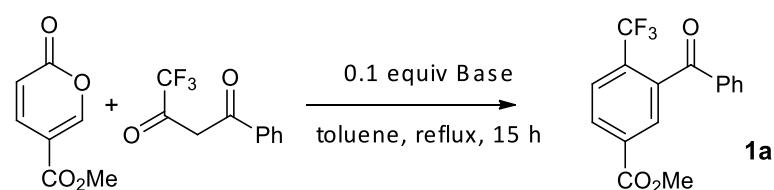


A solvent-free, base-catalyzed domino reaction towards trifluoromethylated benzenes from bio-based methyl coumalate

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Sorbonne Universités, UPMC Univ Paris 06, Institut Parisien de Chimie Moléculaire, UMR CNRS 8232, 4 place Jussieu, F-75005 Paris, France.

Table S1 Tested bases in solvent conditions

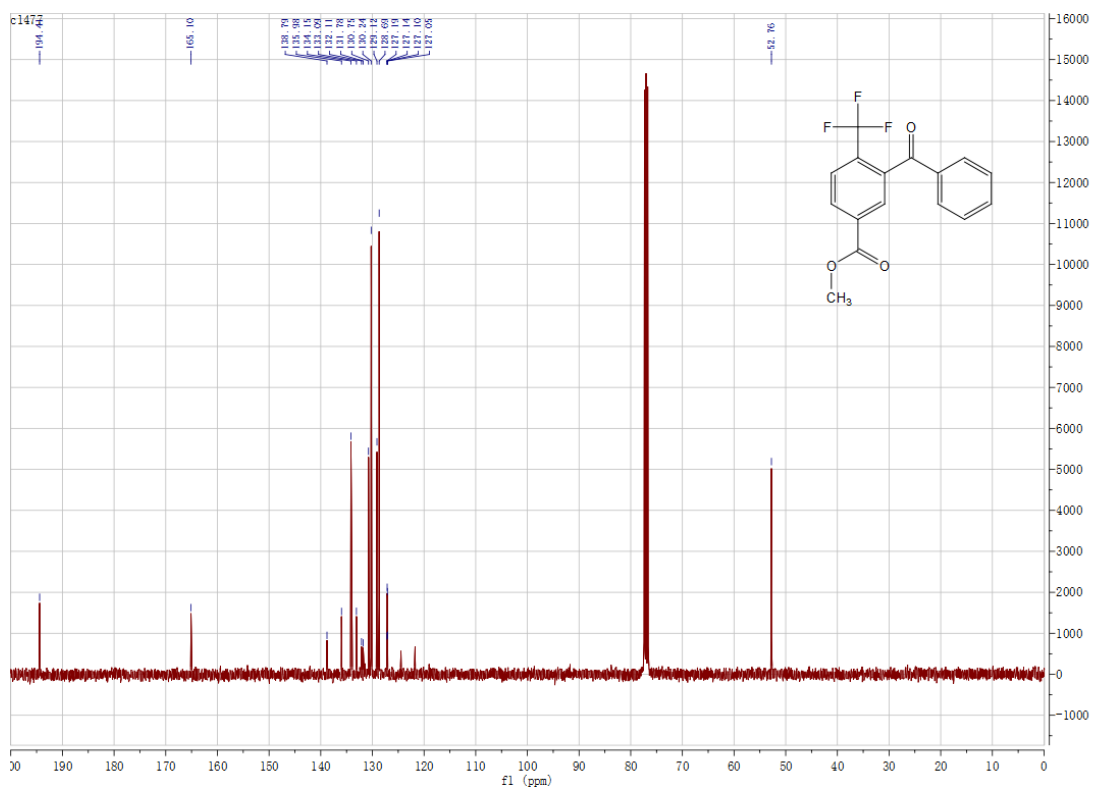
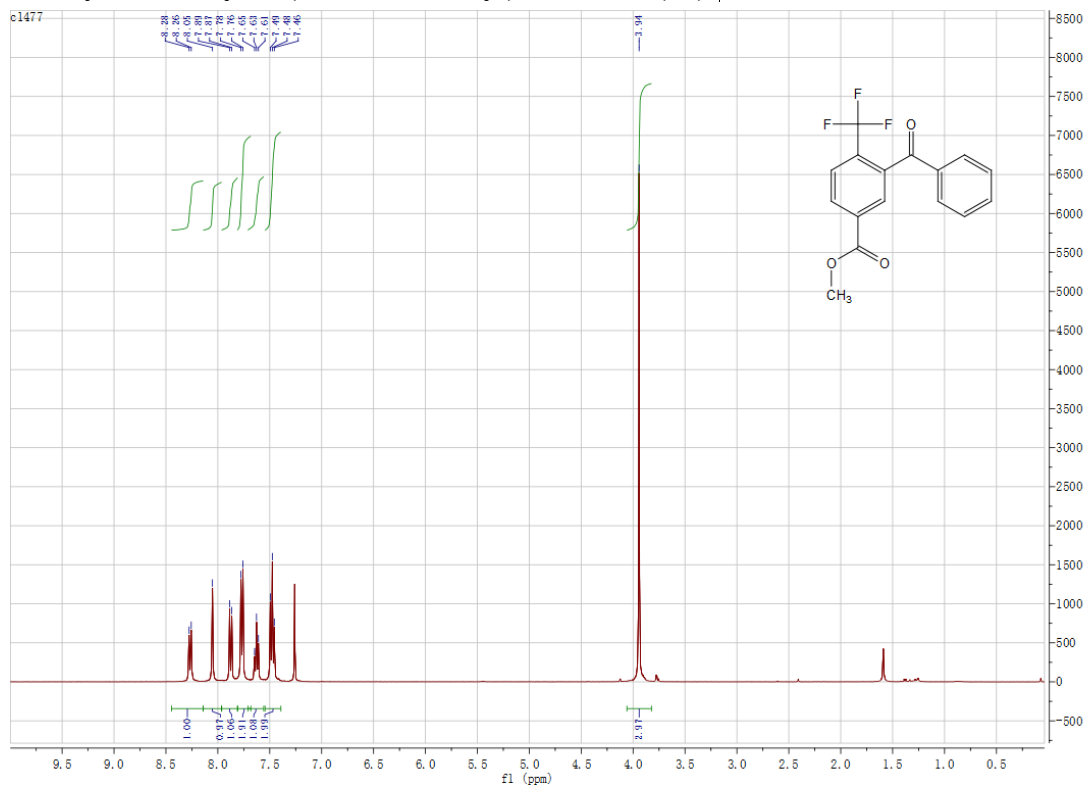


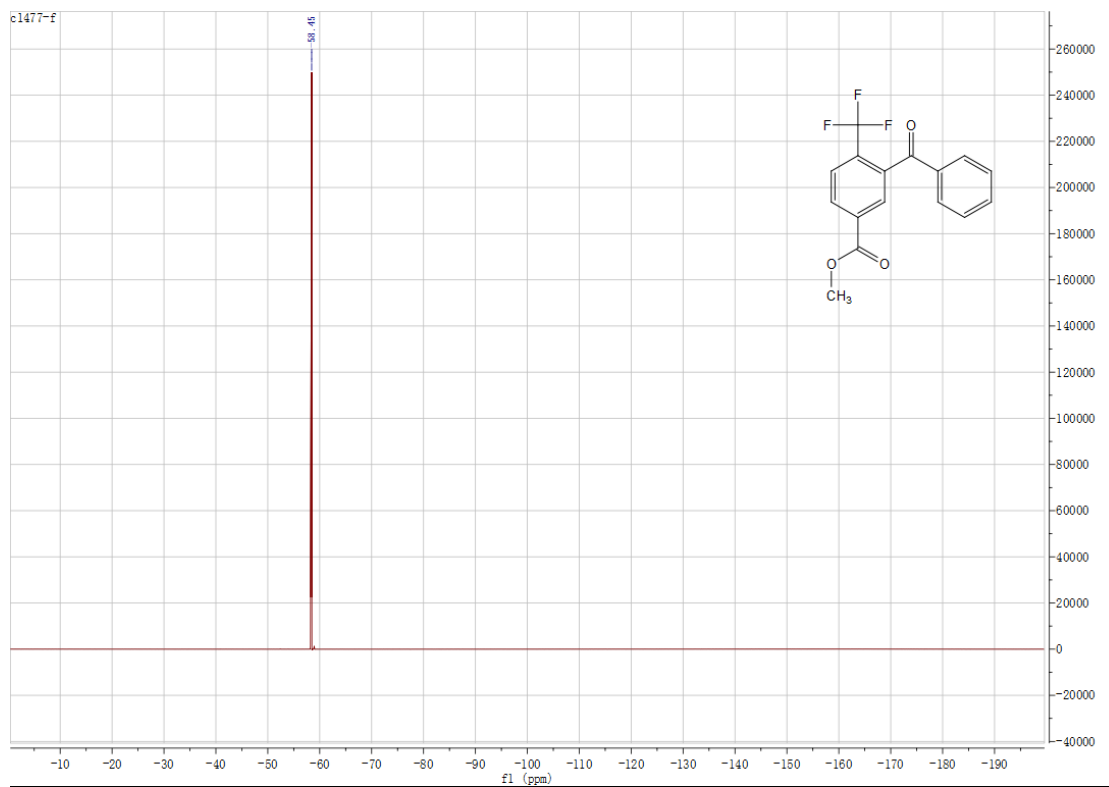
Entry	Base	conversion(%)	Yield(%) ^a
1	Et ₃ N	25	26
2	DBN	100	70
3	quinuclidine	80	67
4	imidazol	55	34
5	DMAP	90	60

^a isolated yields.

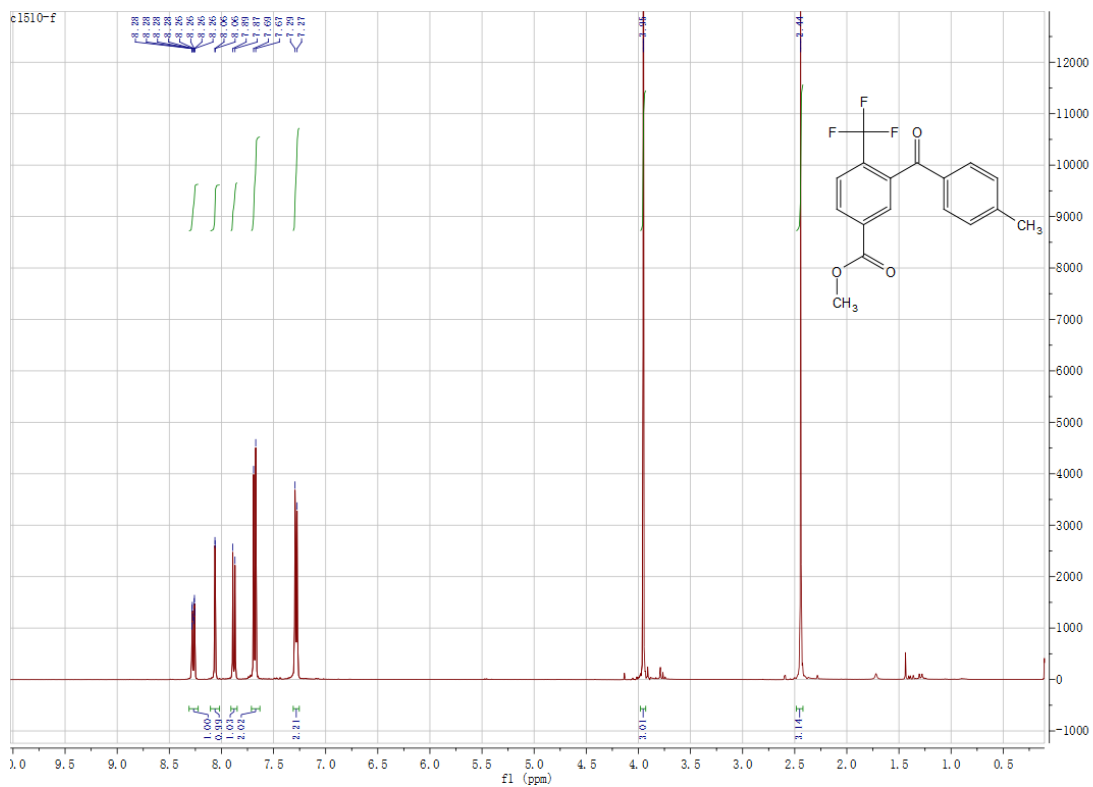
Spectra of Synthesized Compounds

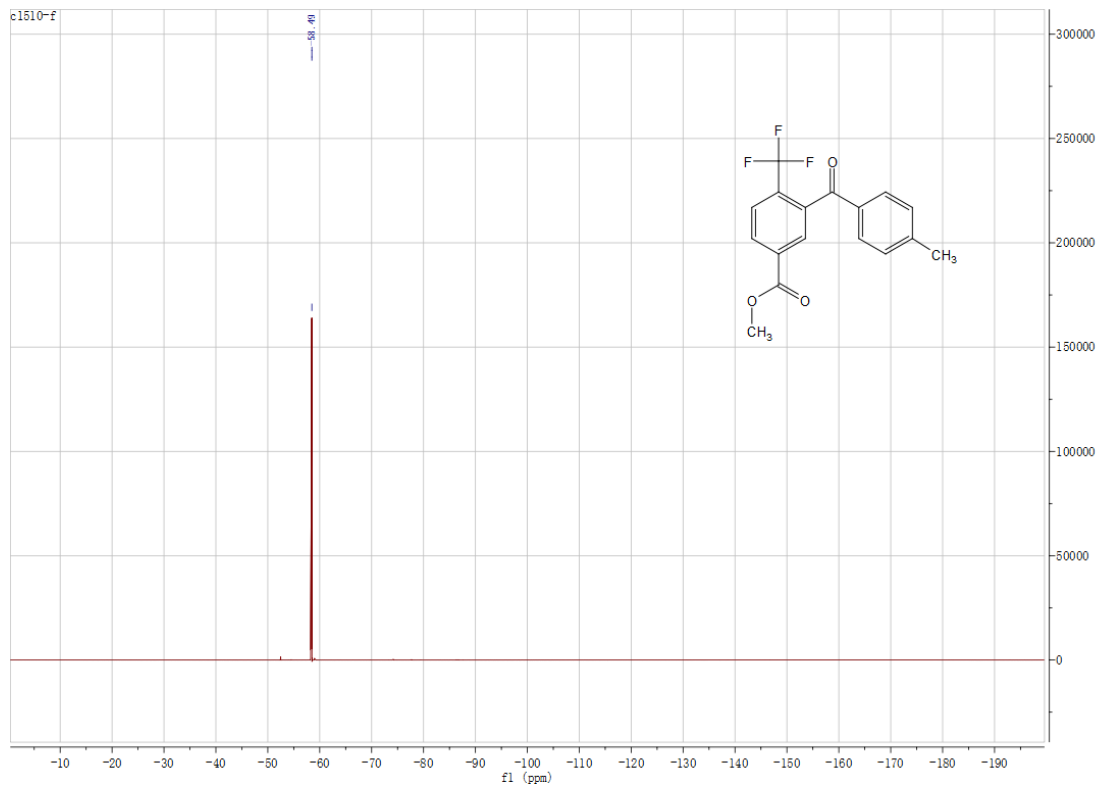
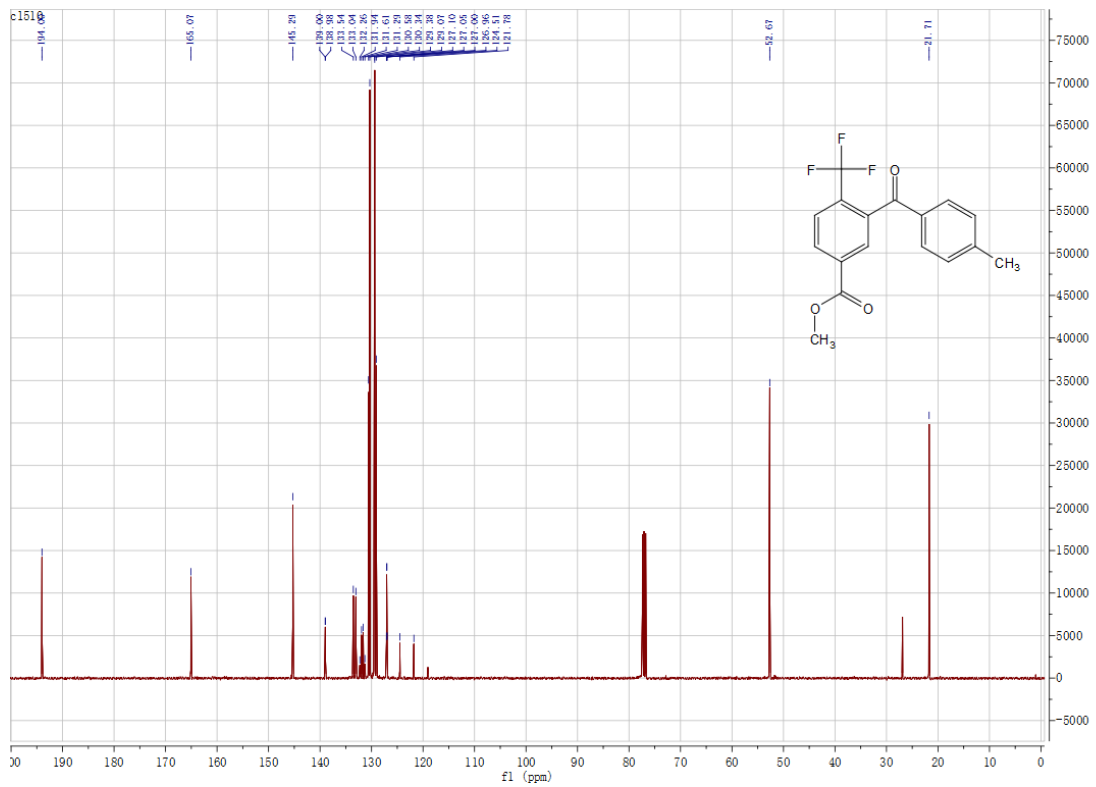
Methyl 3-benzoyl-4-(trifluoromethyl) benzoate (2a):

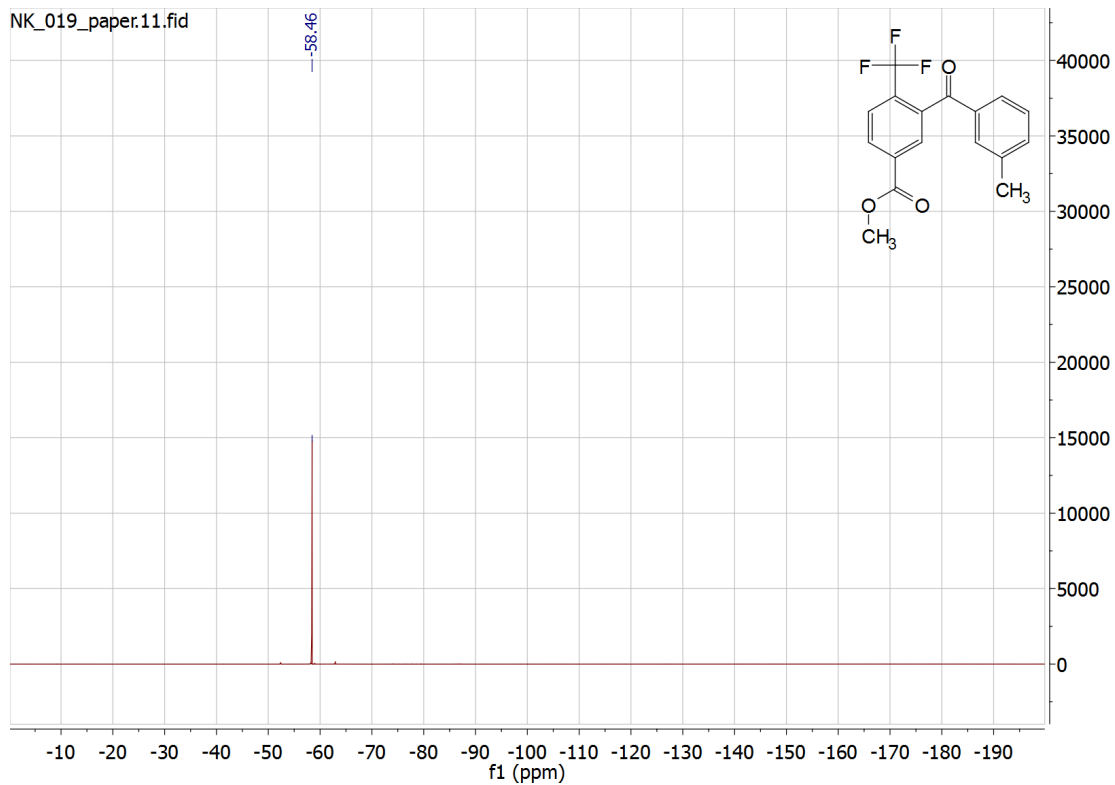




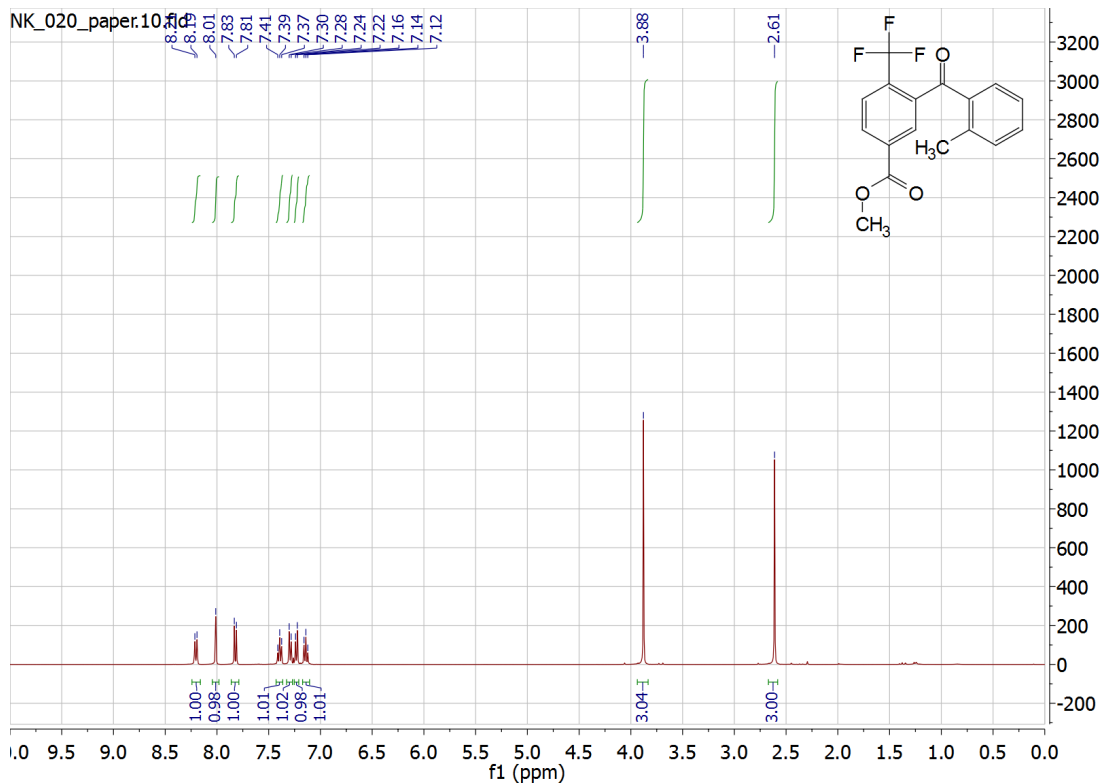
Methyl 3-(4-methylbenzoyl)-4-(trifluoromethyl) benzoate (2b):

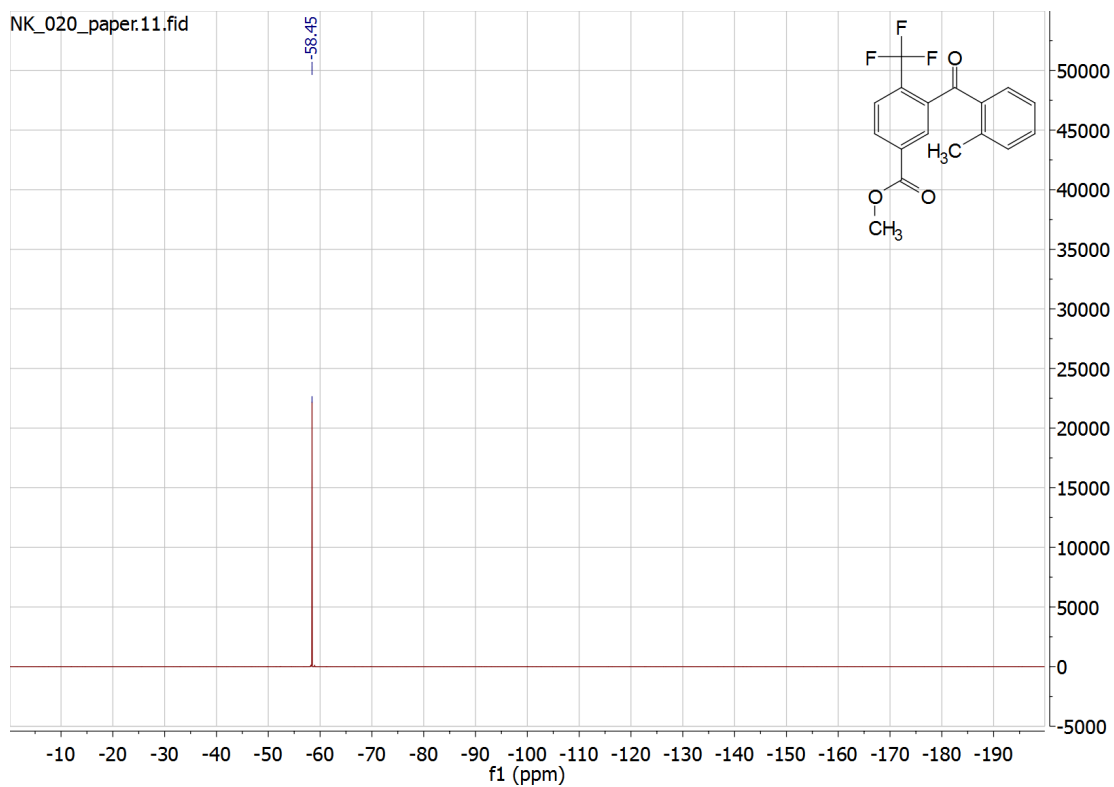
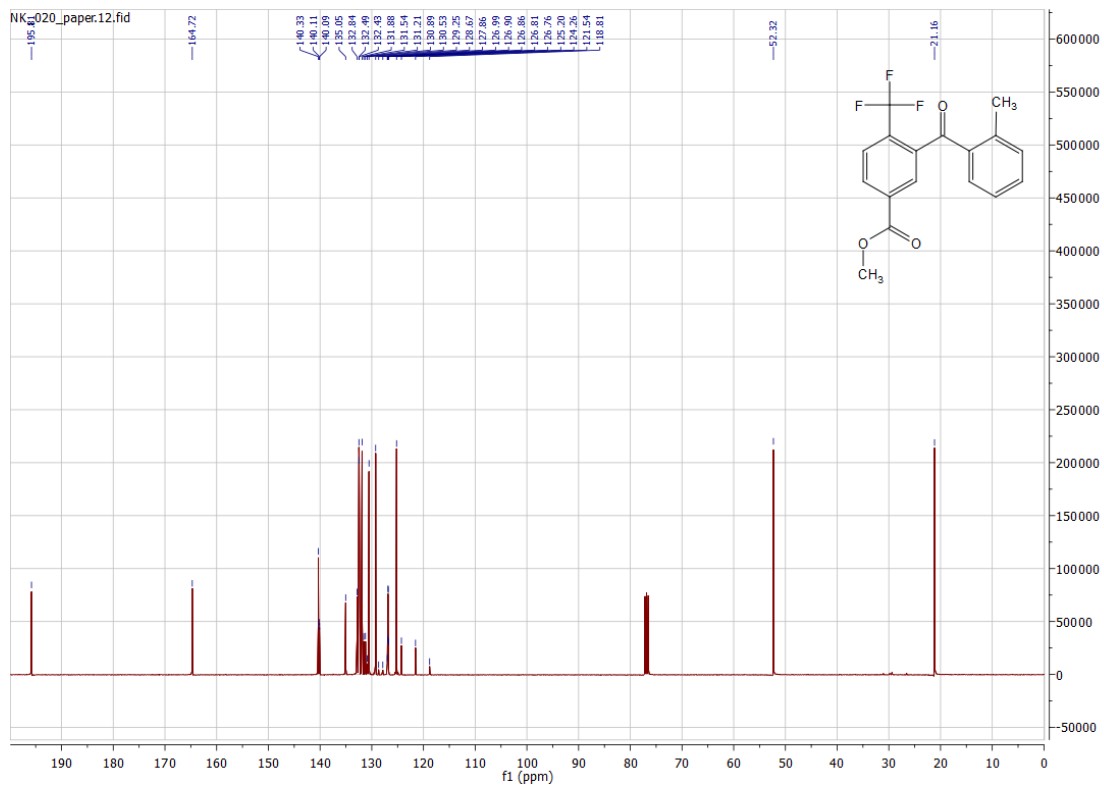




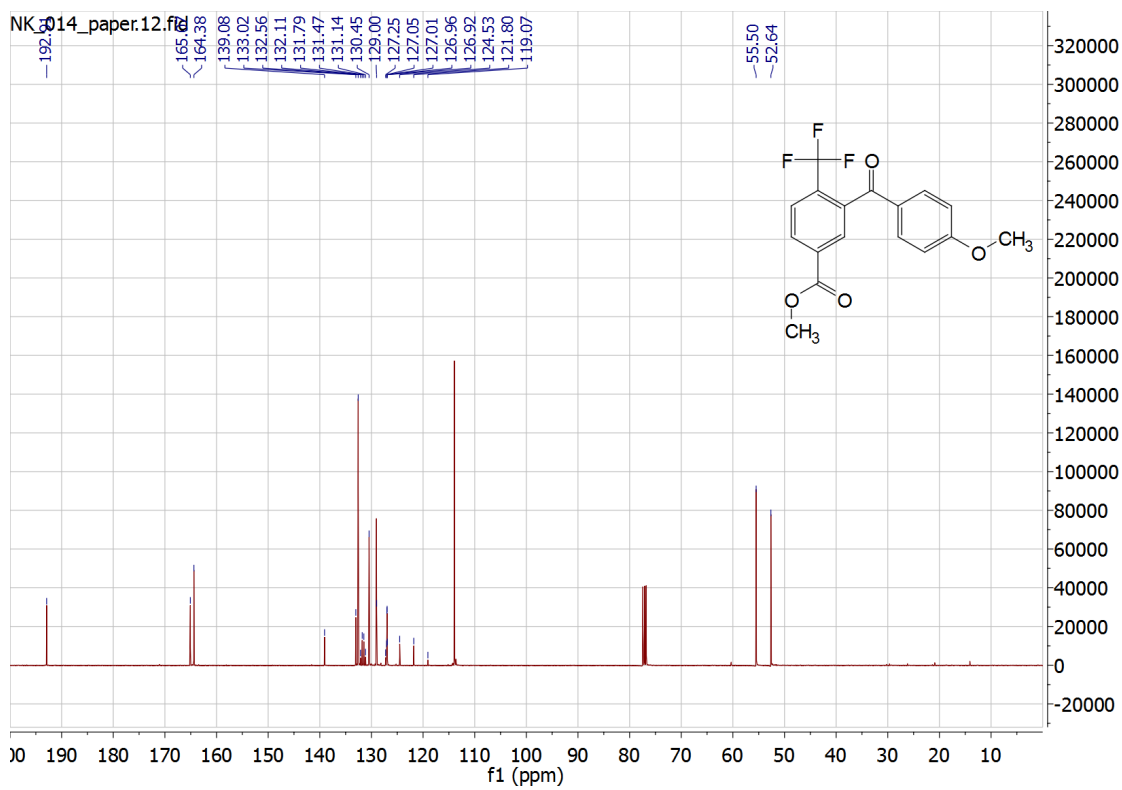
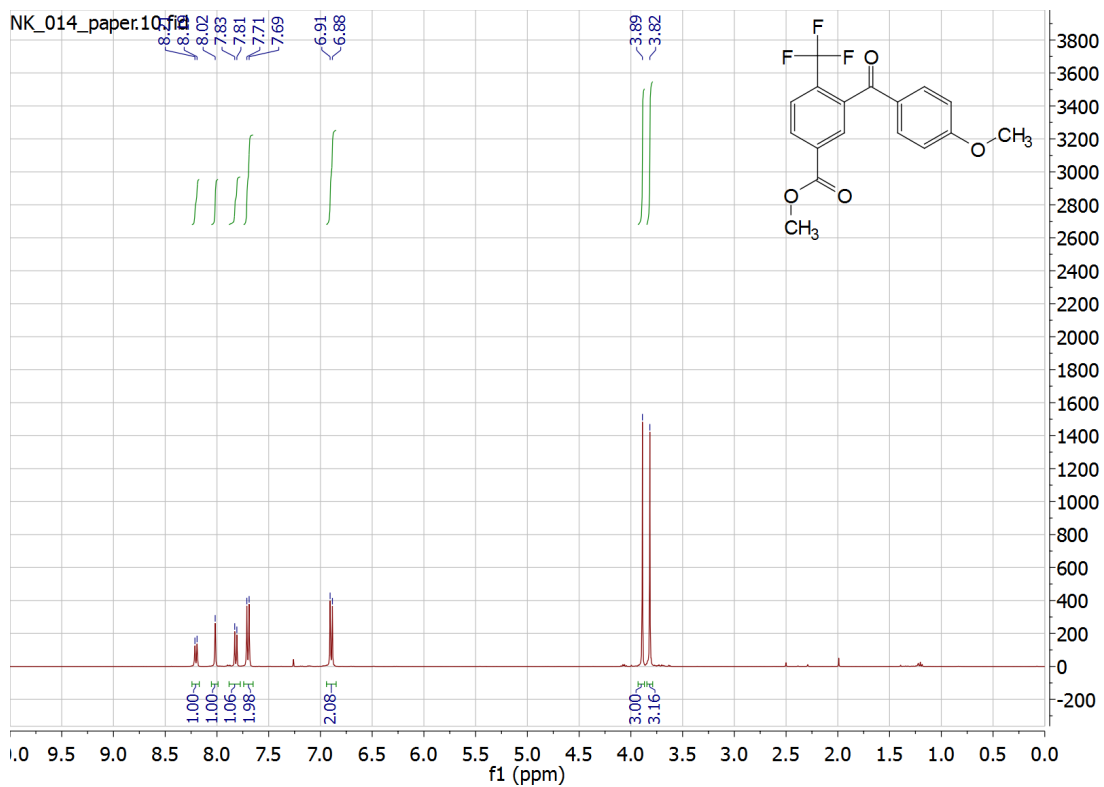


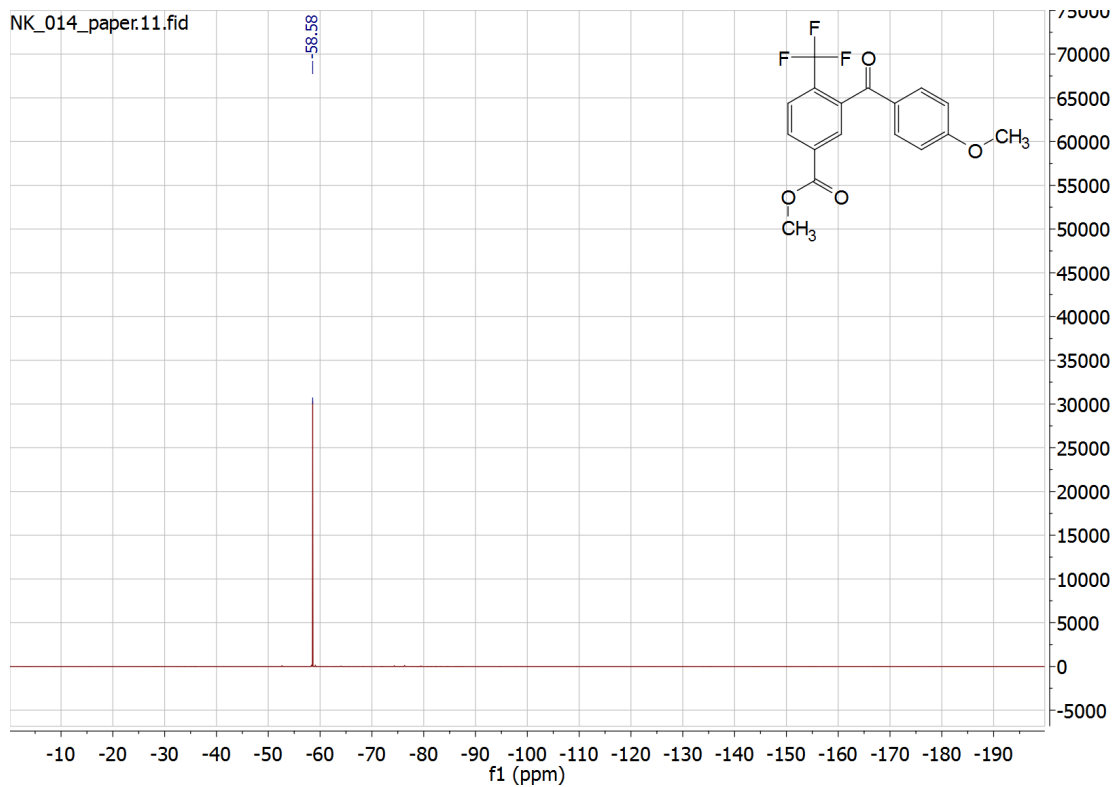
Methyl 3-(2-methylbenzoyl)-4-(trifluoromethyl) benzoate (2d):



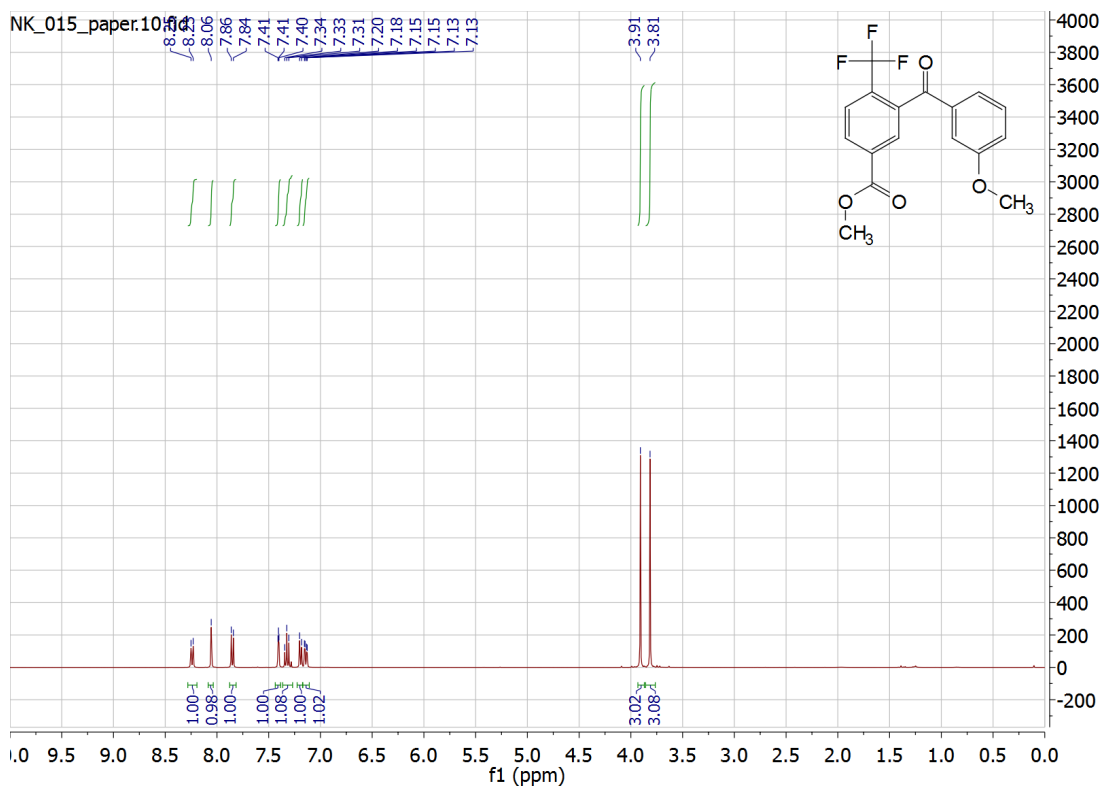


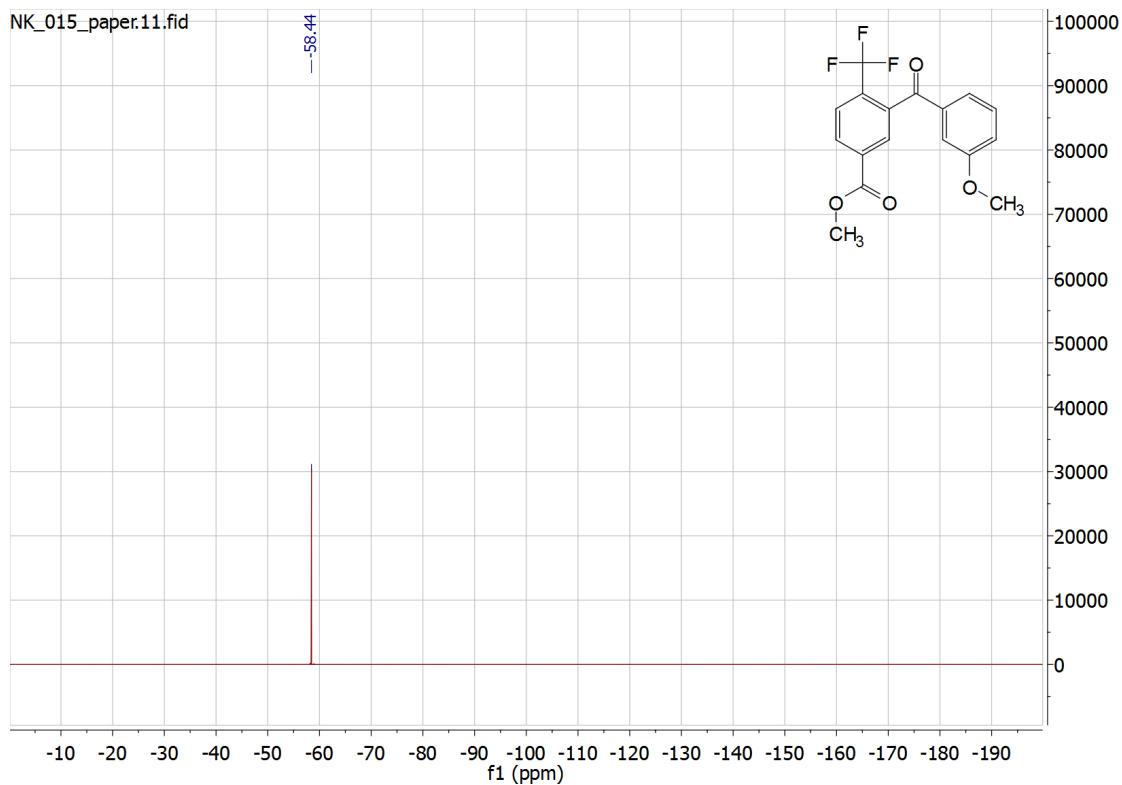
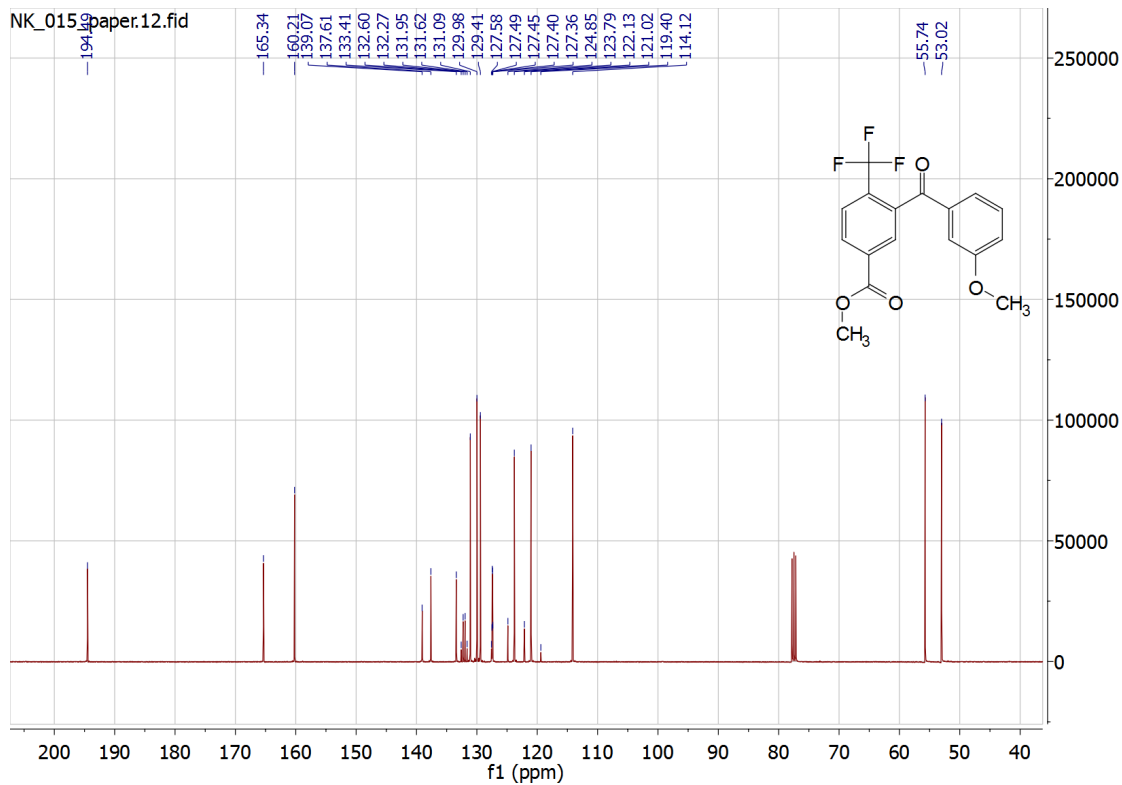
Methyl 3-(4-methoxybenzoyl)-4-(trifluoromethyl)benzoate (2e):



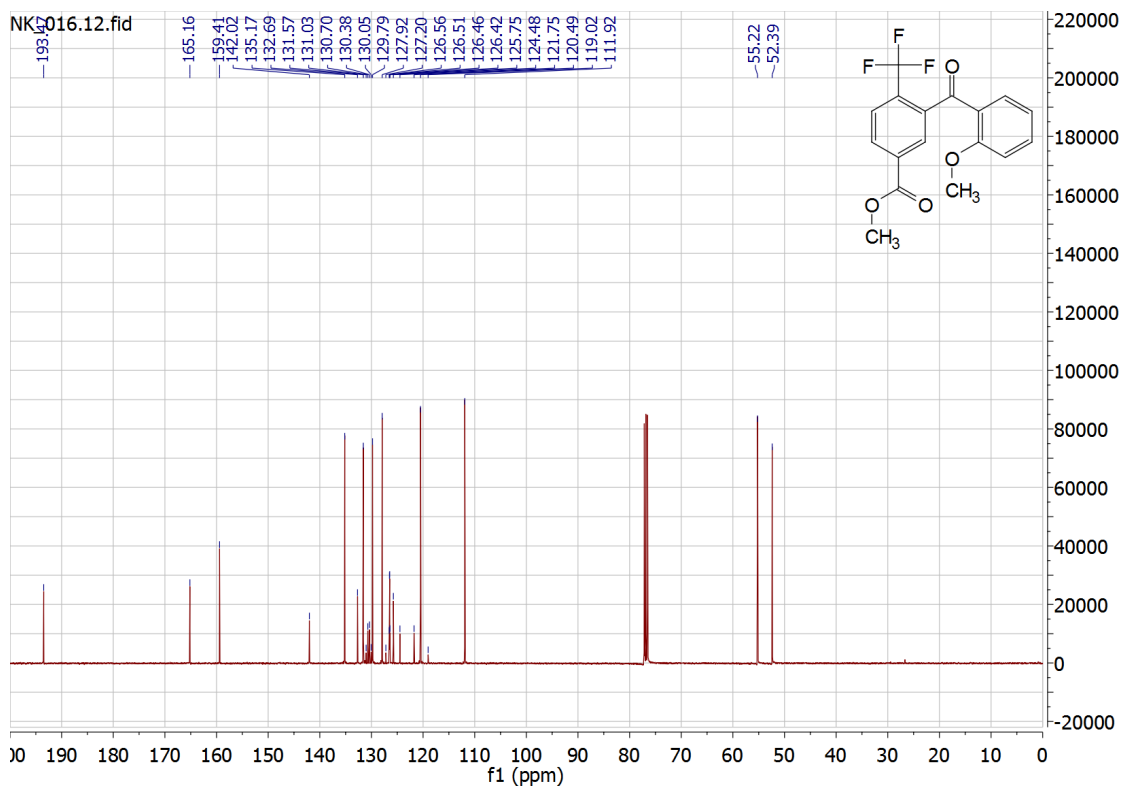
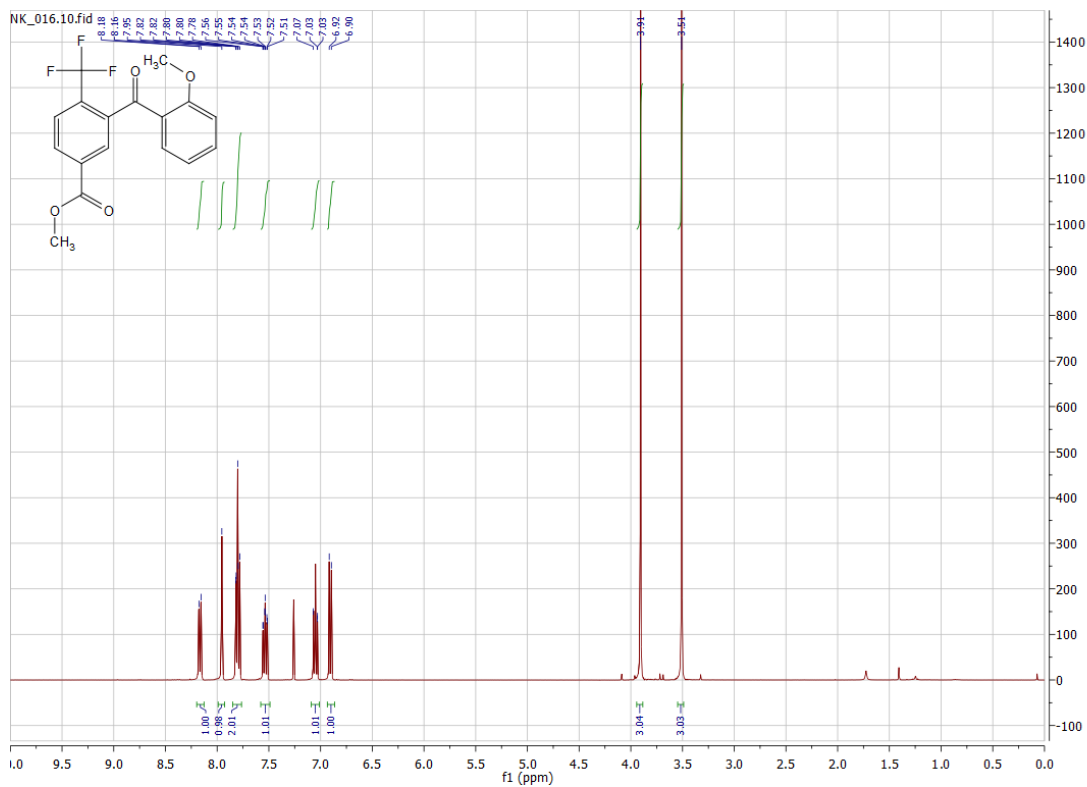


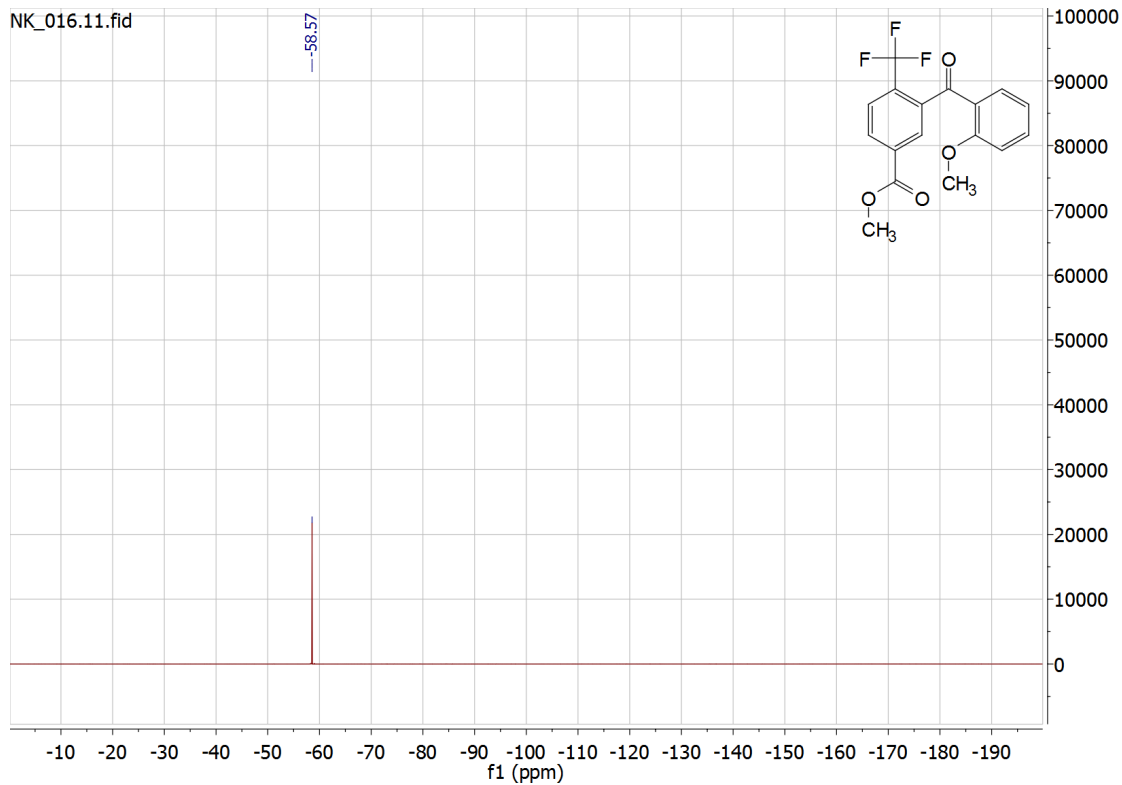
Methyl 3-(3-methoxybenzoyl)-4-(trifluoromethyl) benzoate (2f):



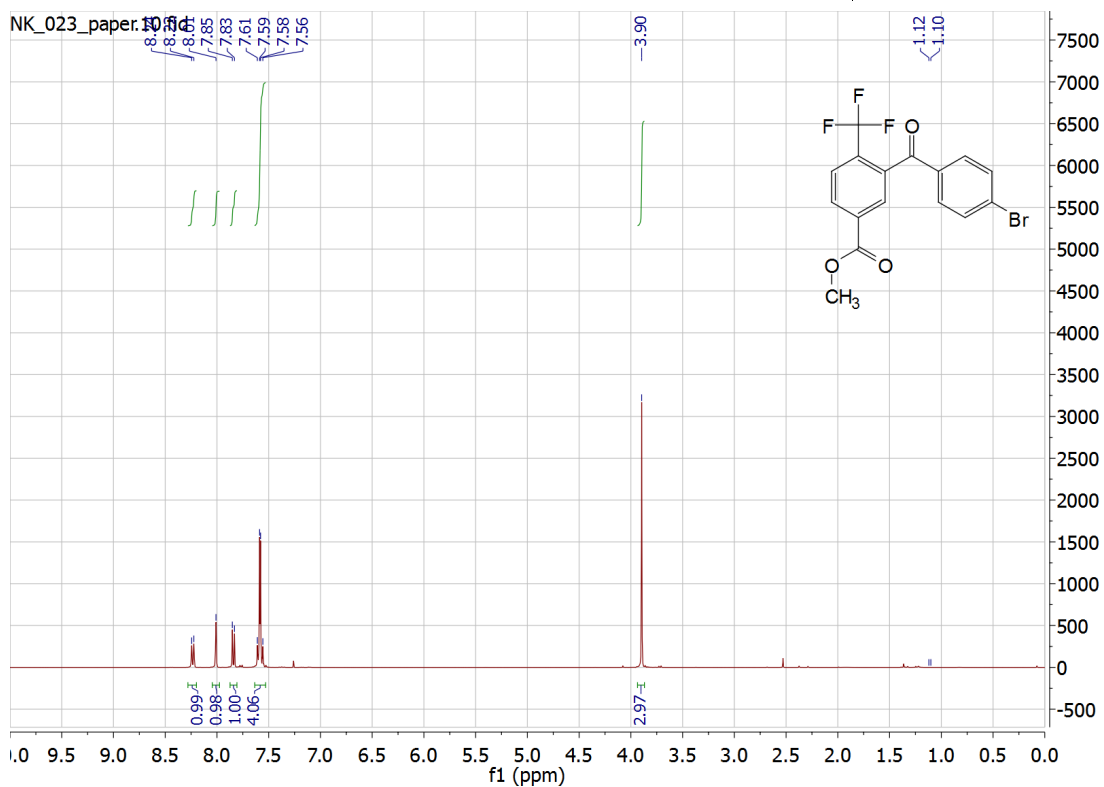


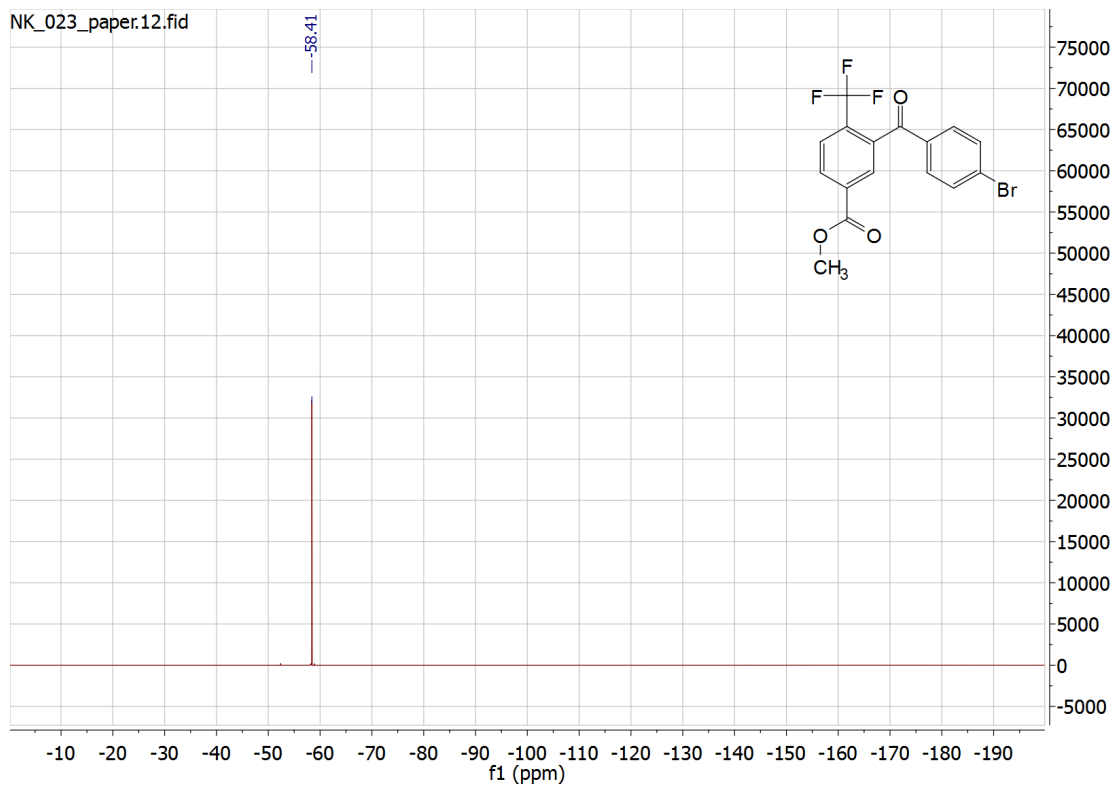
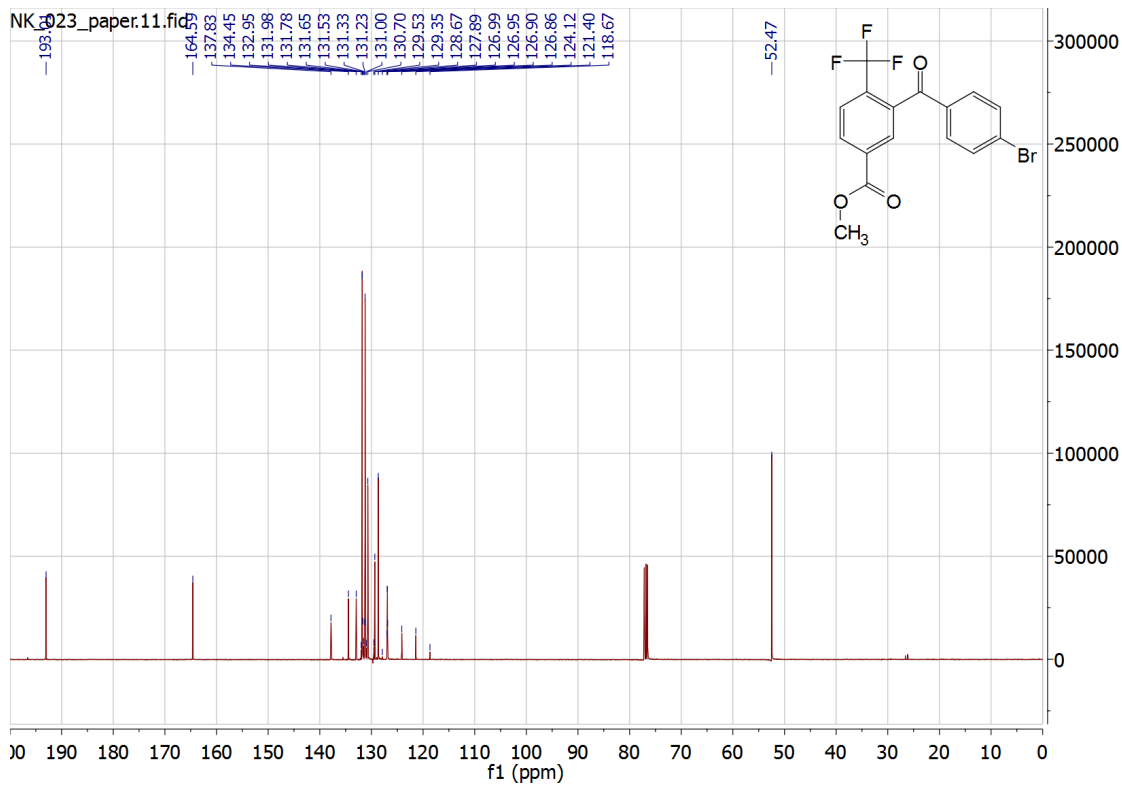
Methyl 3-(2-methoxybenzoyl)-4-(trifluoromethyl)benzoate (2g):



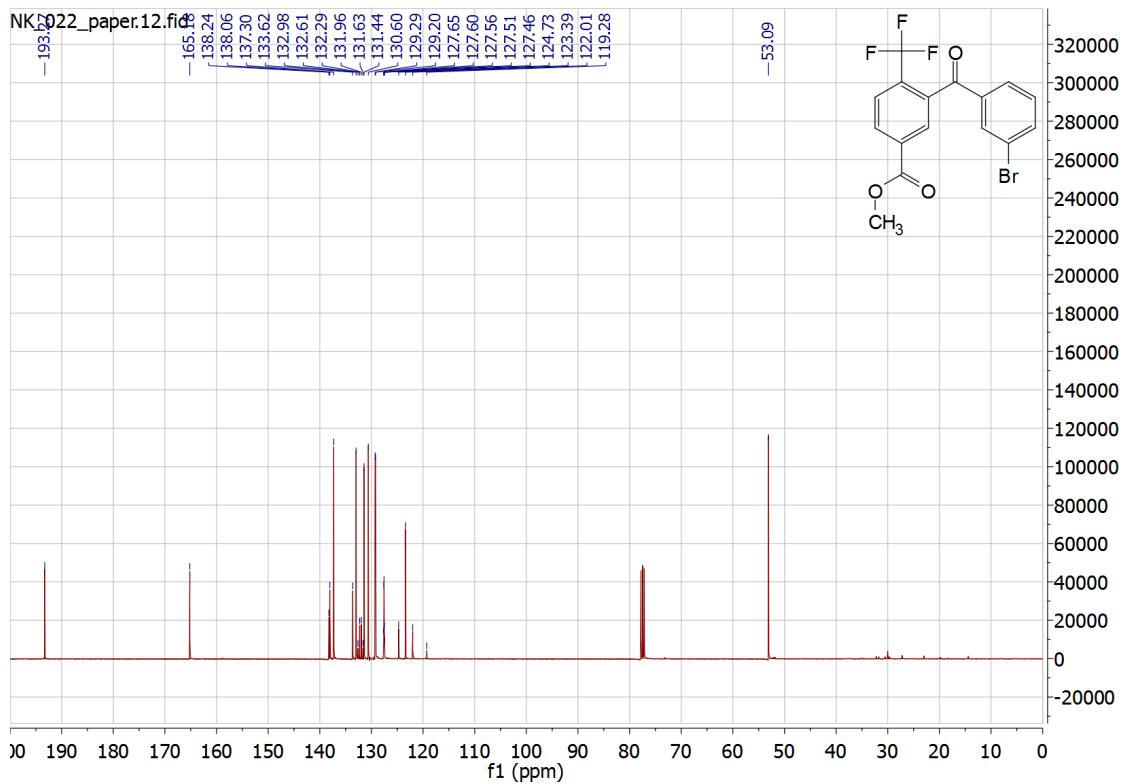
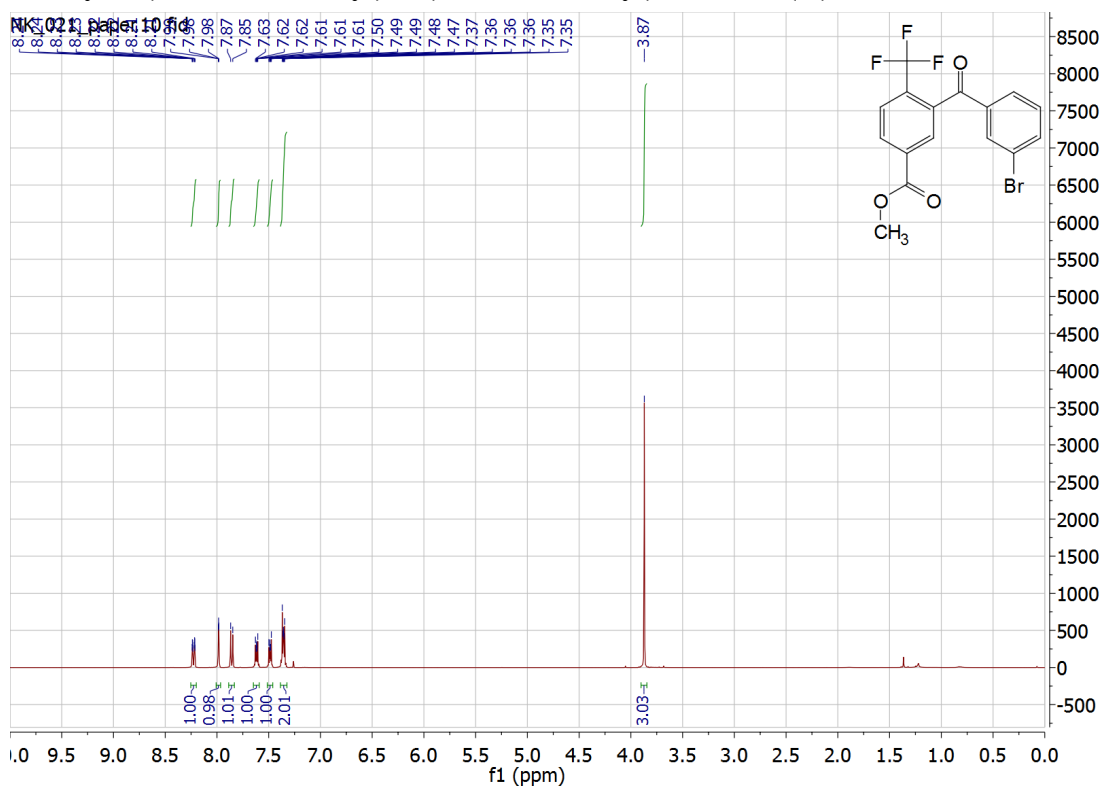


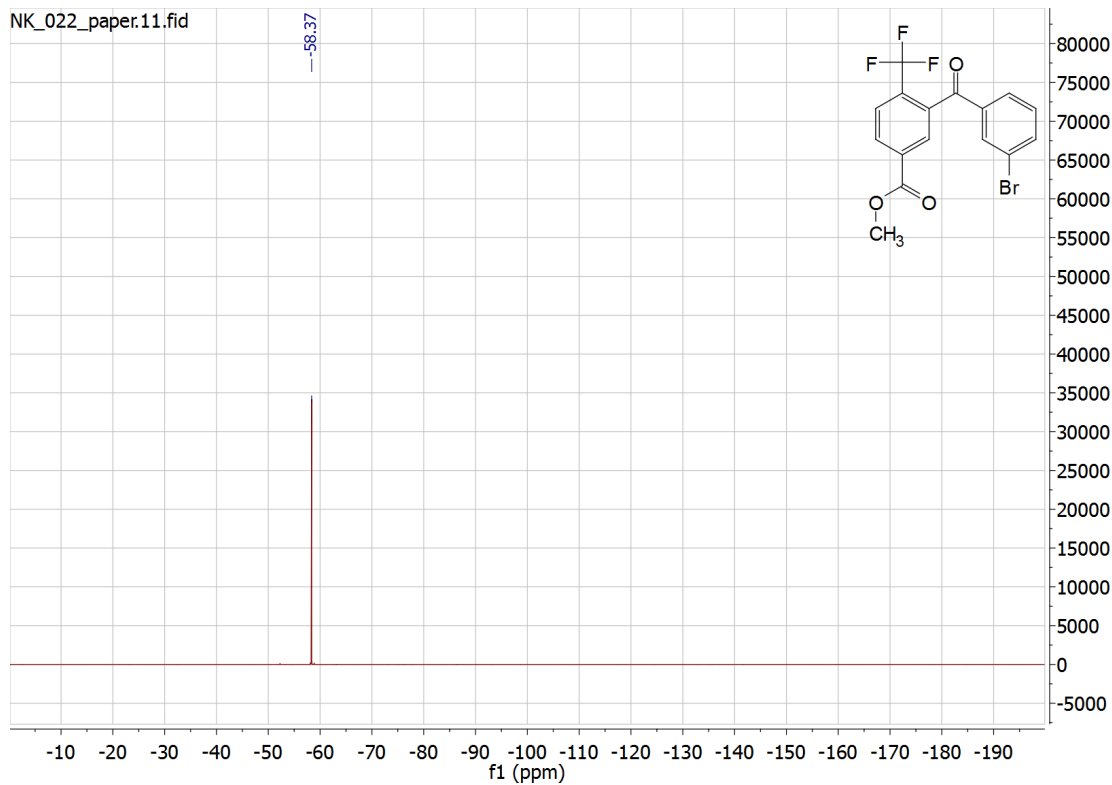
Methyl 3-(4-bromobenzoyl)-4-(trifluoromethyl)benzoate (2h):



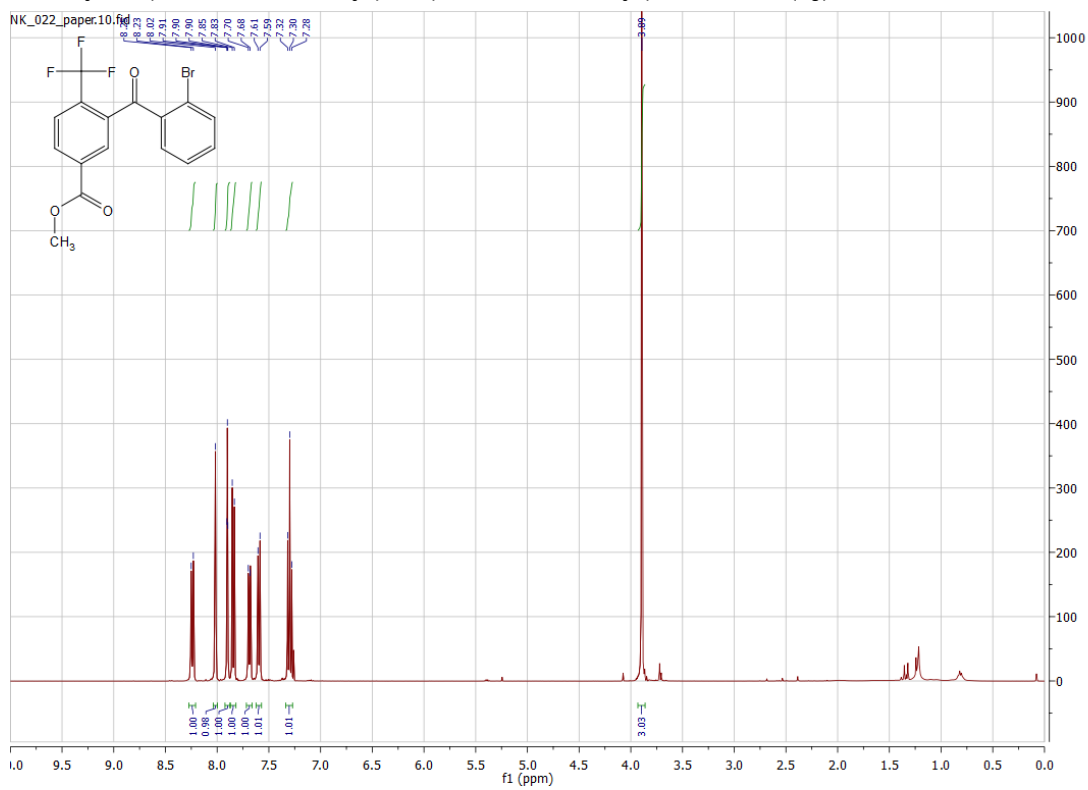


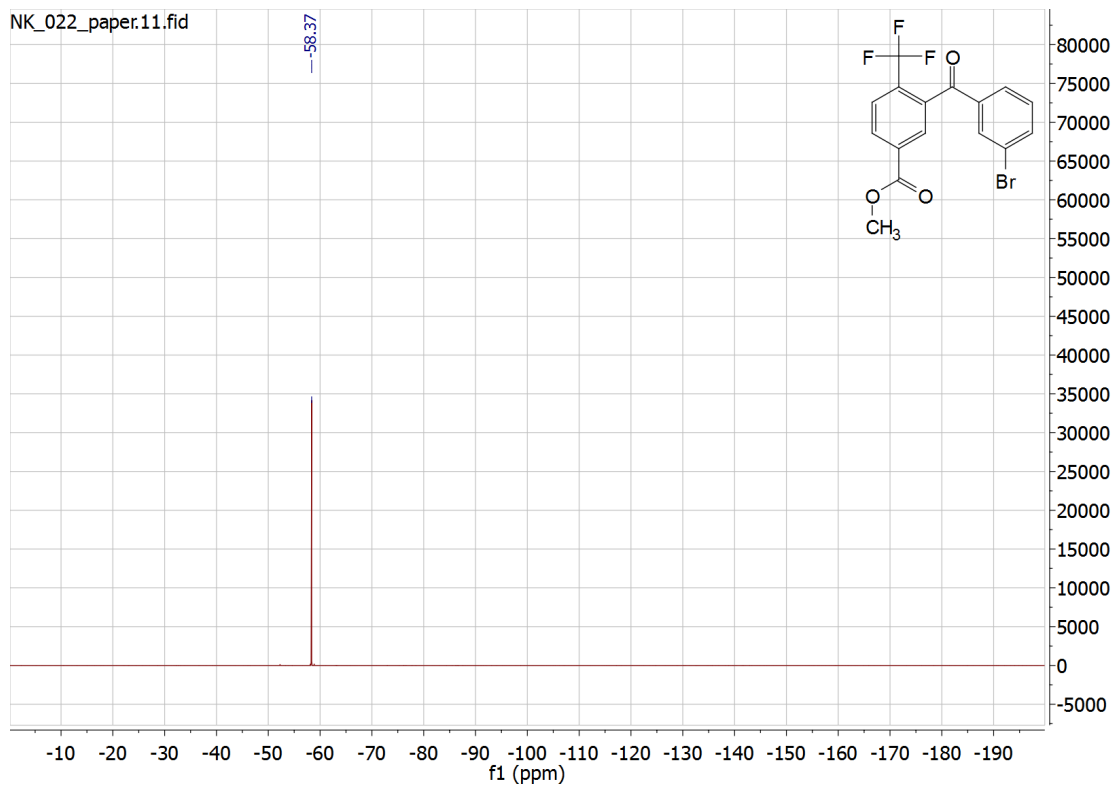
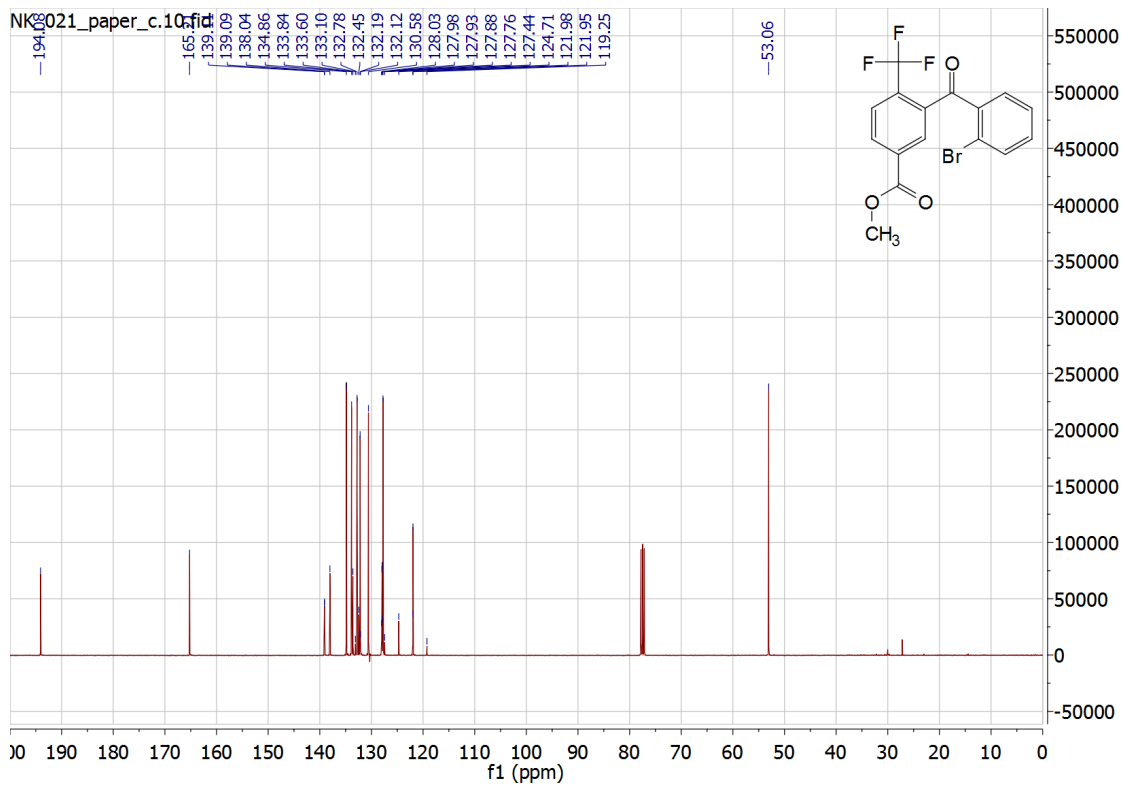
Methyl 3-(3-bromobenzoyl)-4-(trifluoromethyl)benzoate (2i):



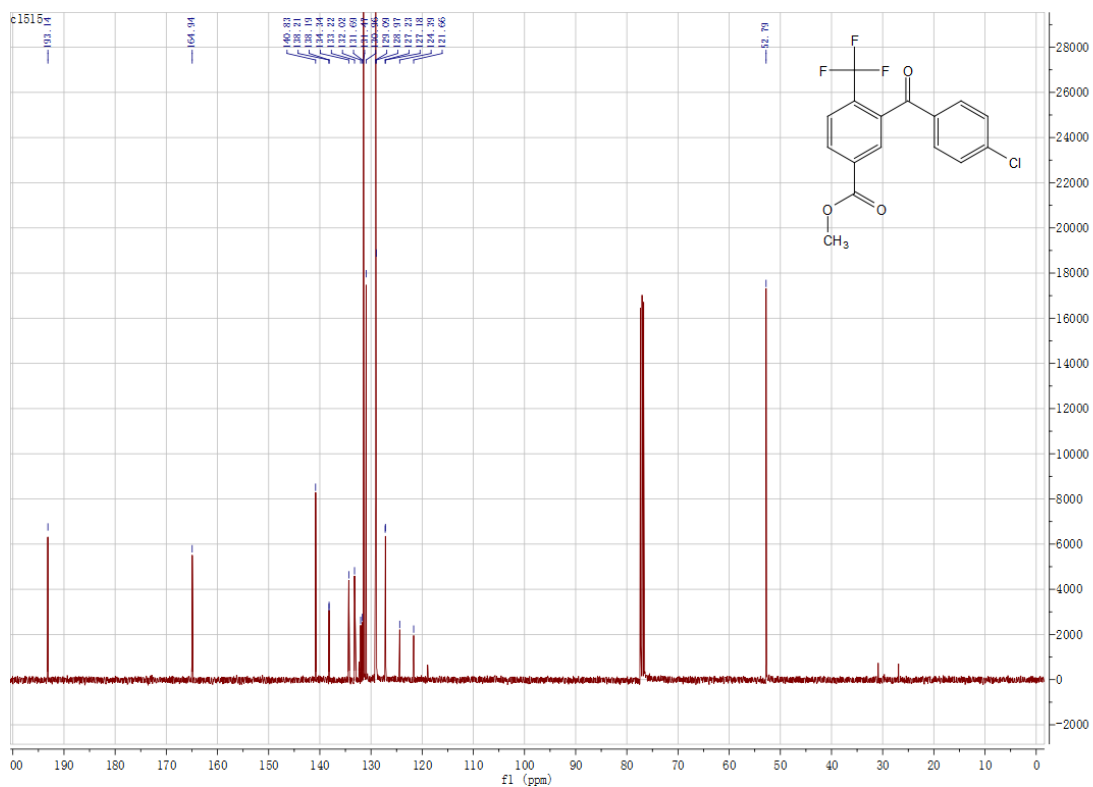
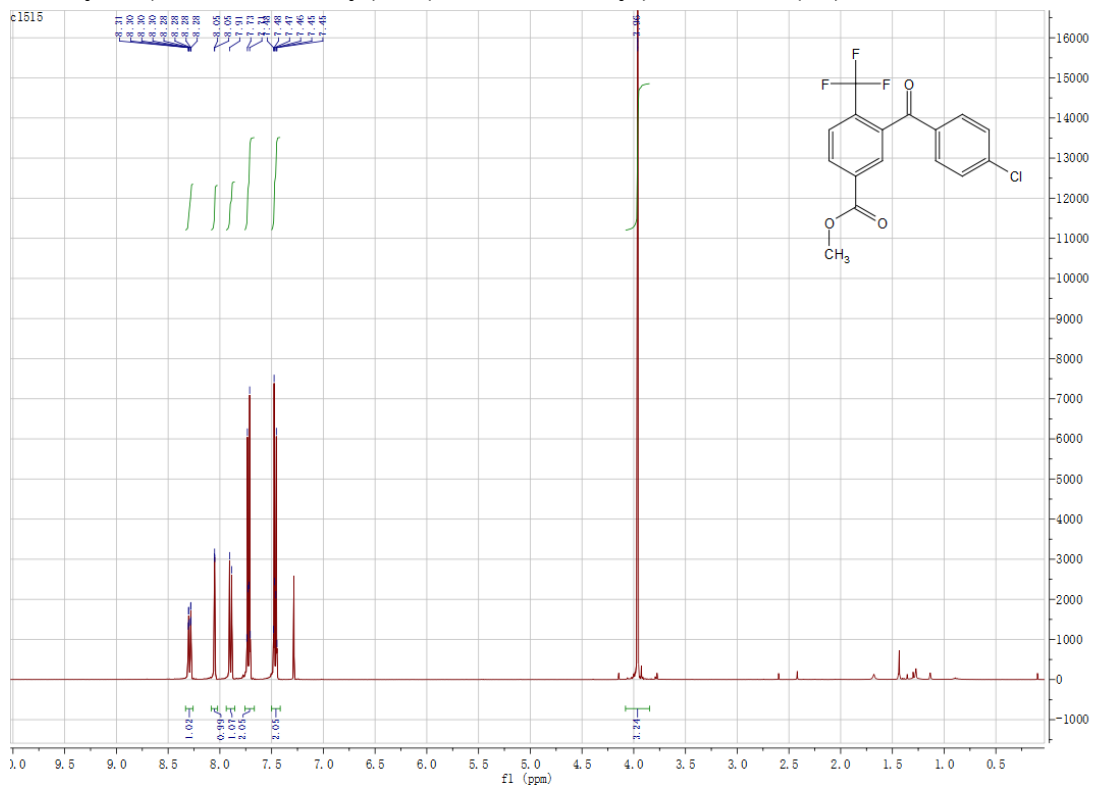


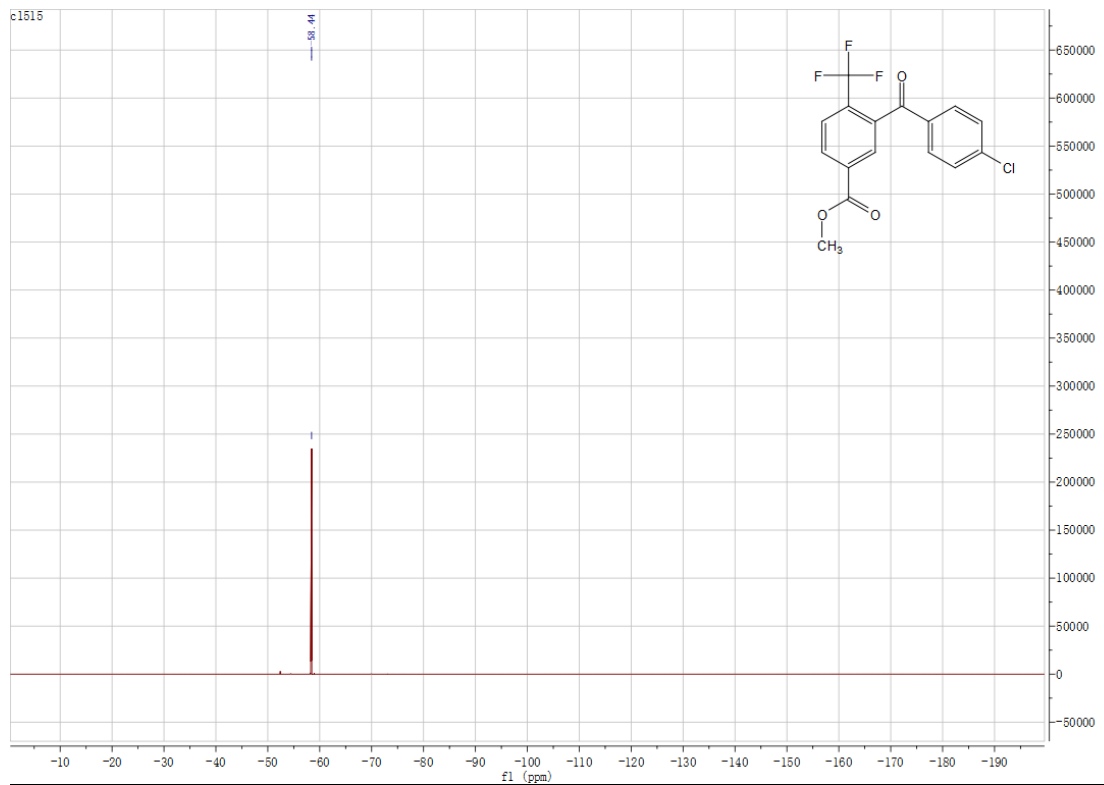
Methyl 3-(2-bromobenzoyl)-4-(trifluoromethyl)benzoate (2j):



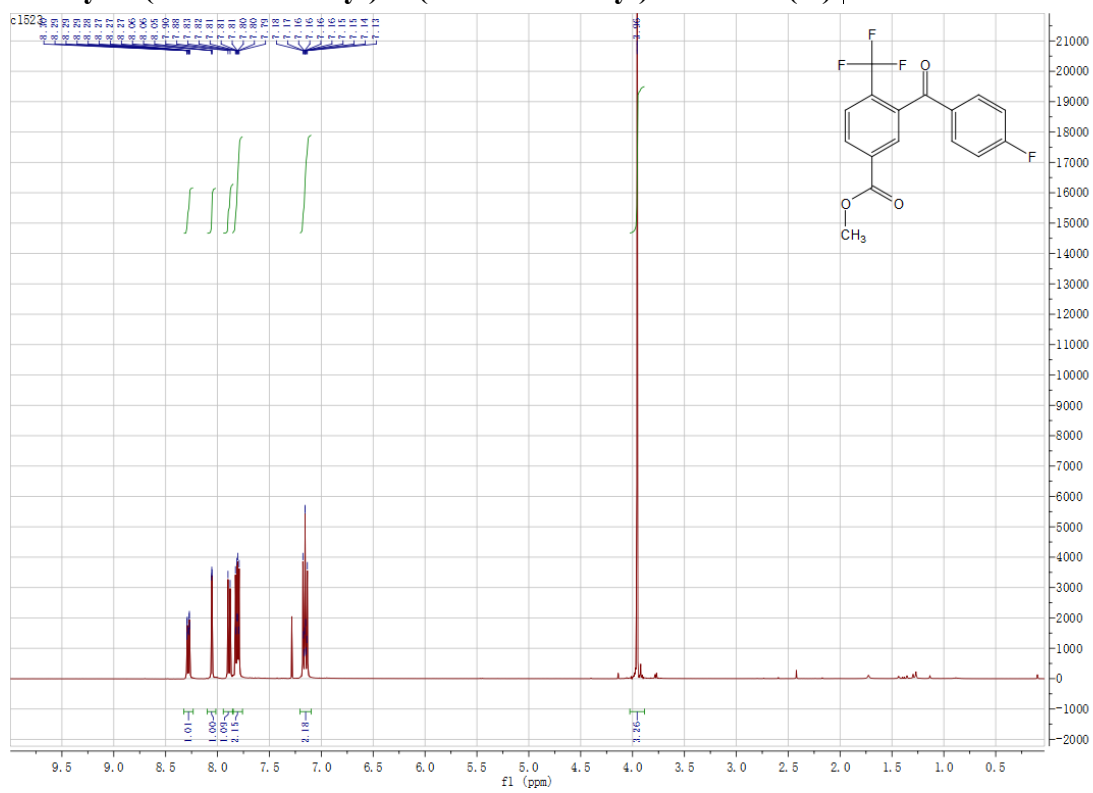


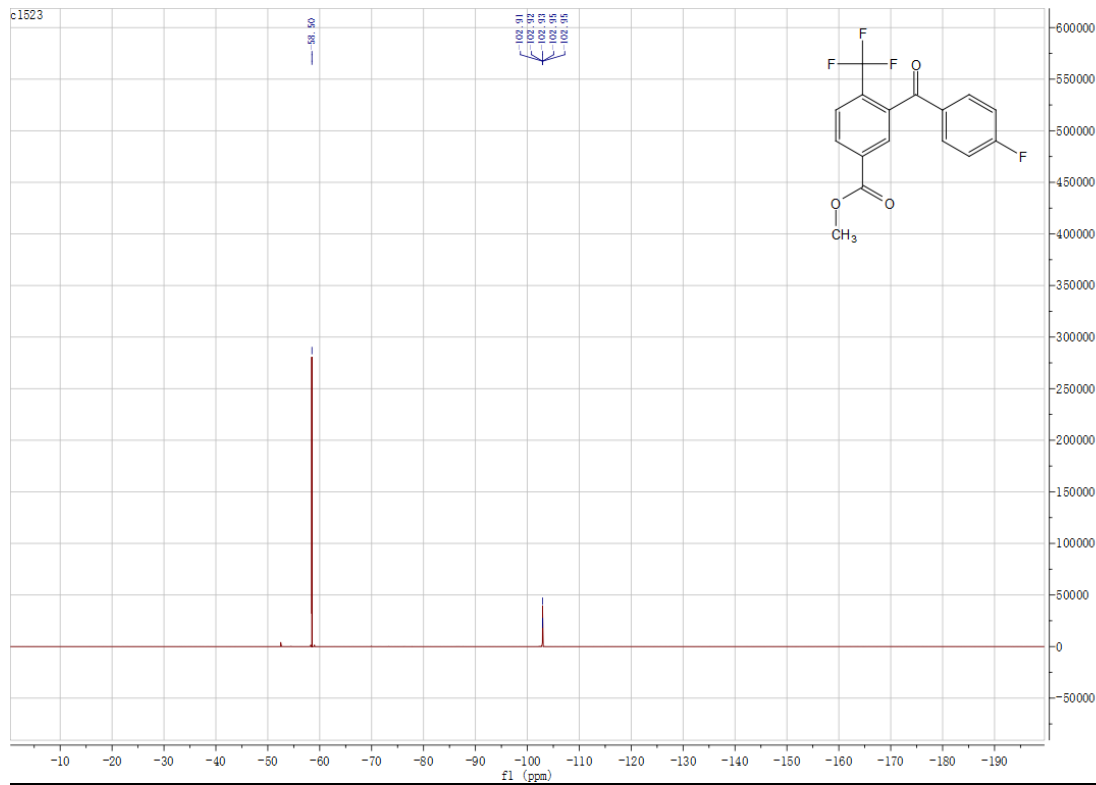
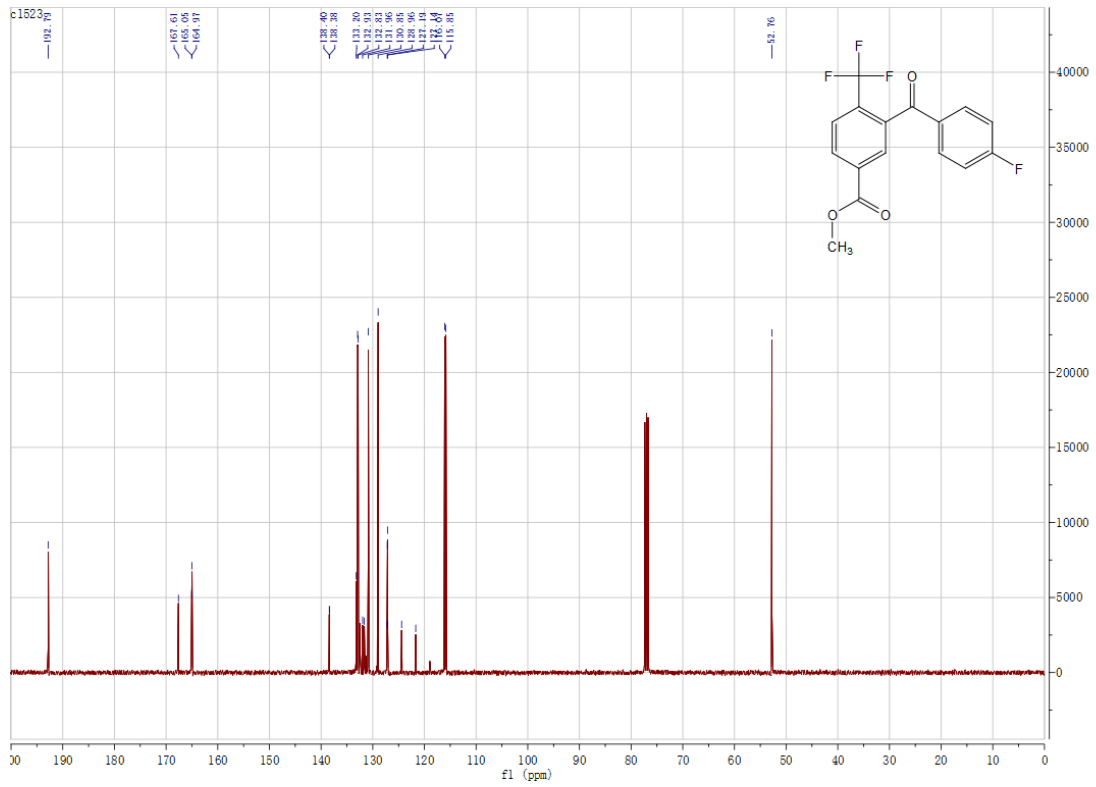
Methyl 3-(4-chlorobenzoyl)-4-(trifluoromethyl) benzoate (2k) :



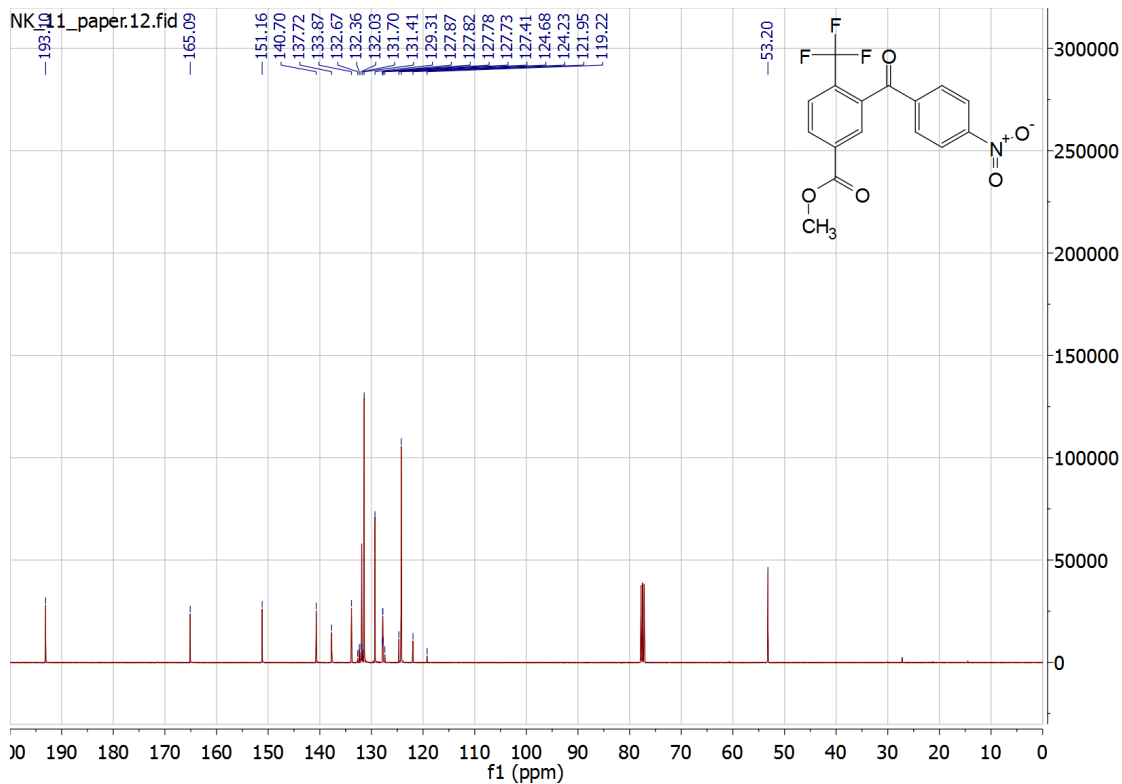
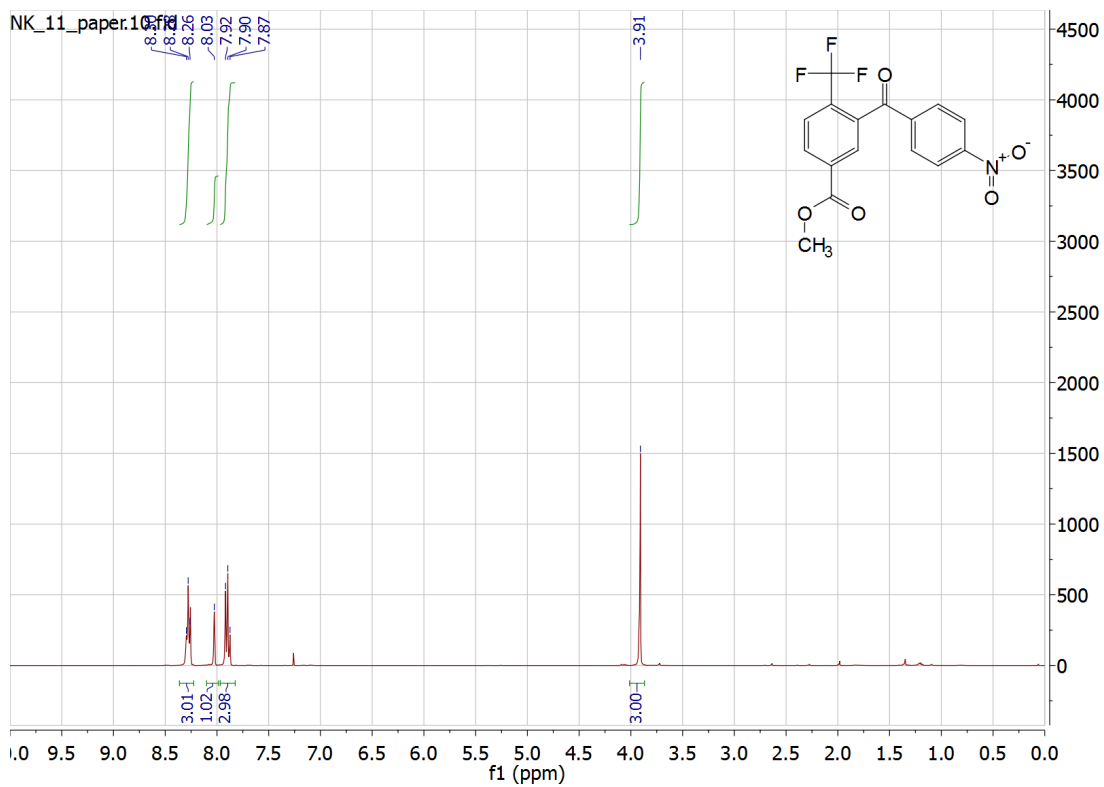


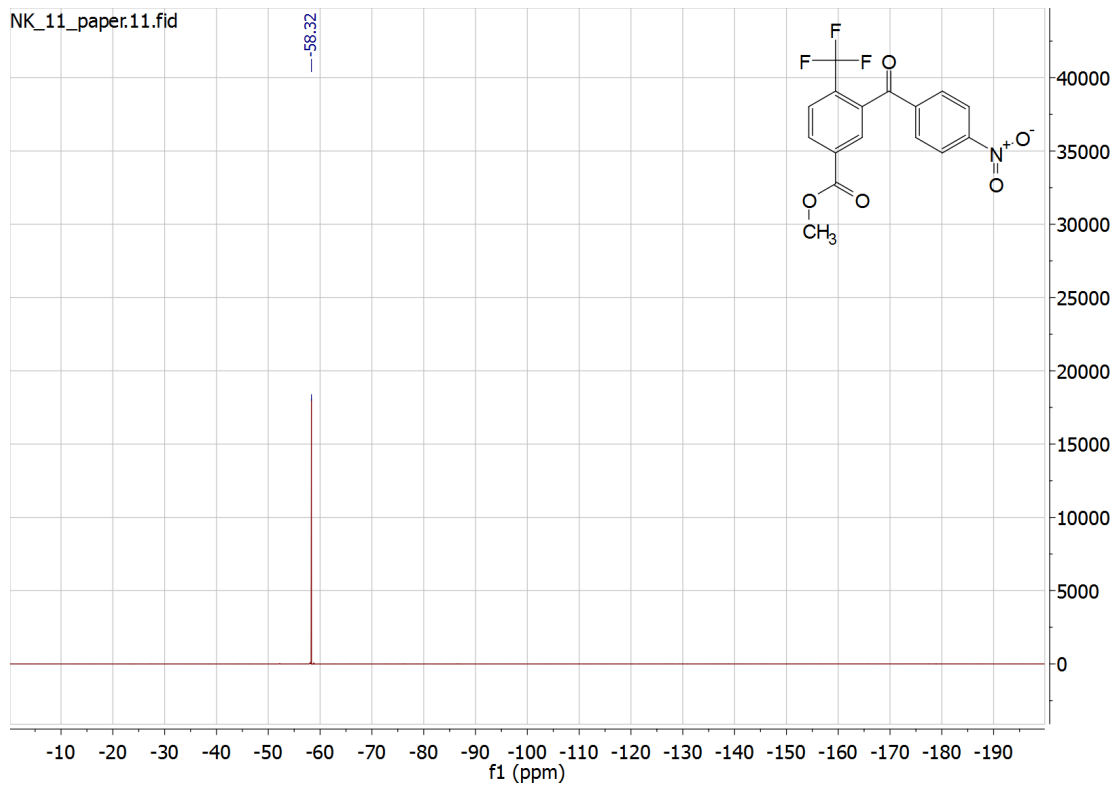
Methyl 3-(4-fluorobenzoyl)-4-(trifluoromethyl) benzoate (2):



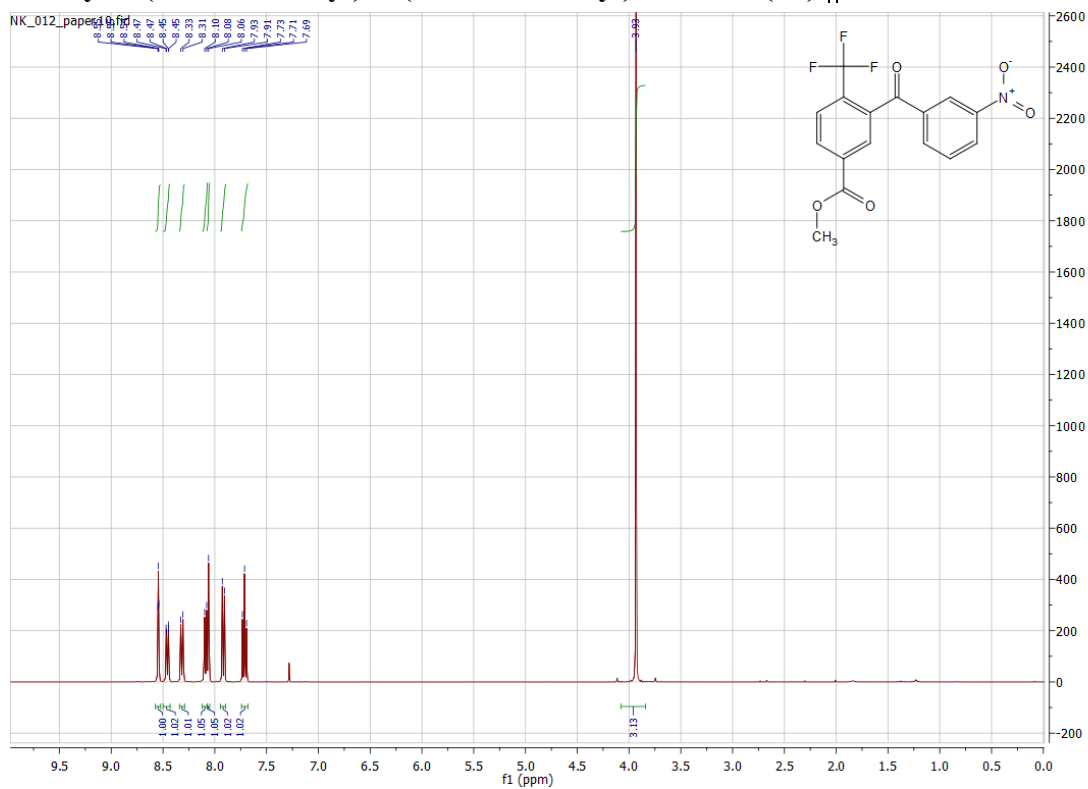


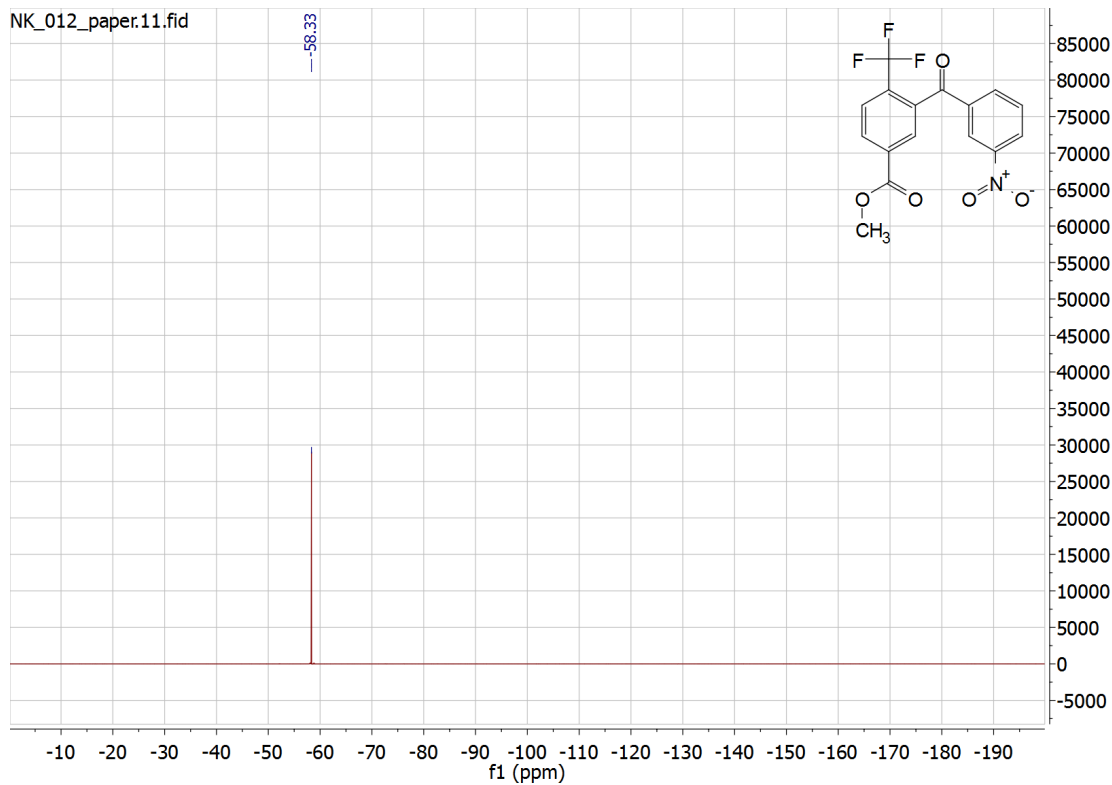
Methyl 3-(4-nitrobenzoyl)-4-(trifluoromethyl) benzoate (2m):



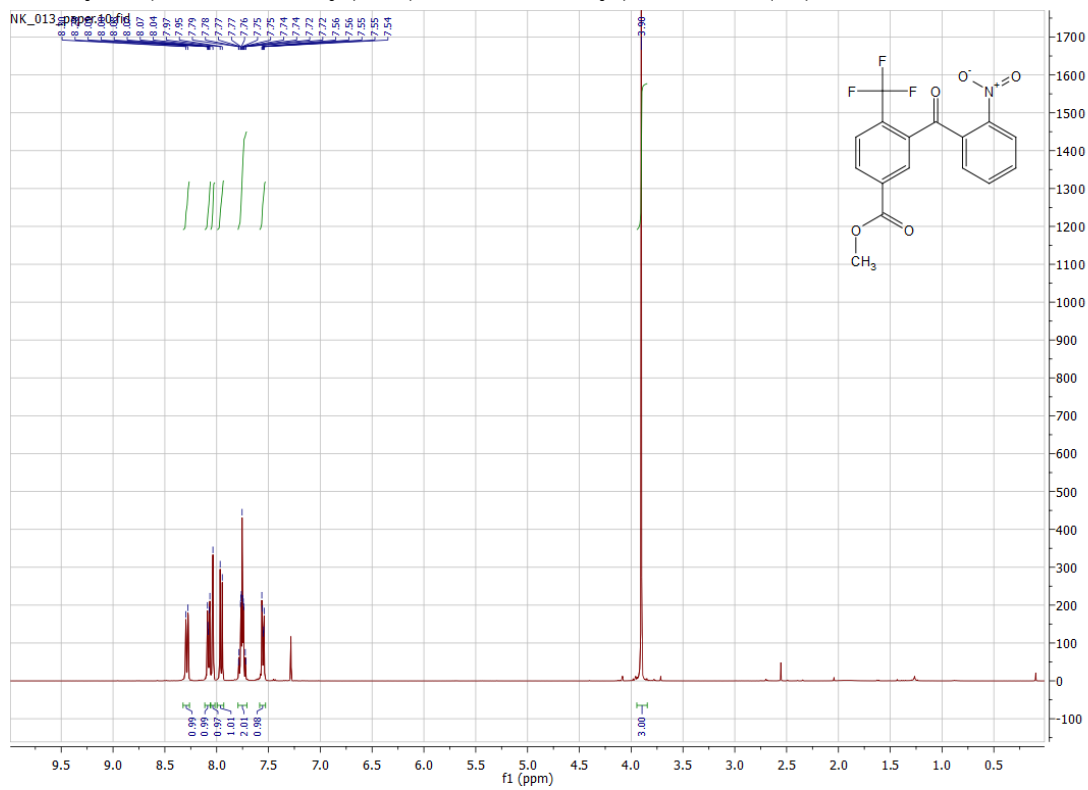


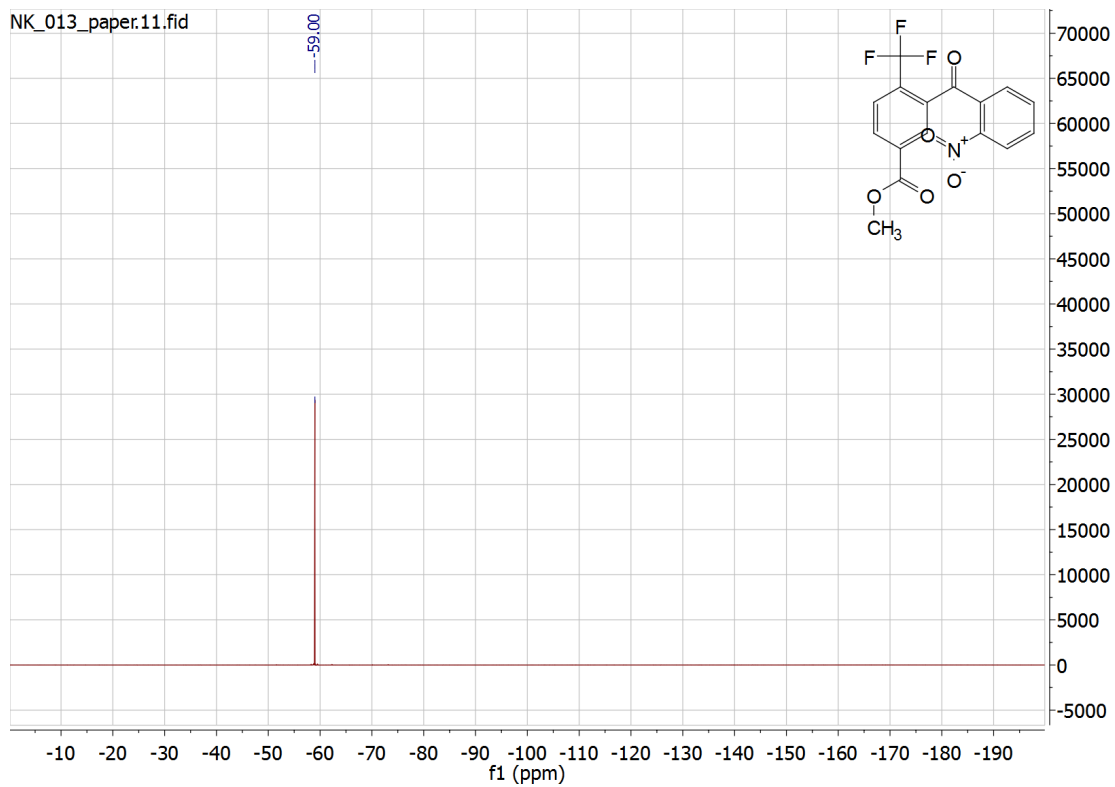
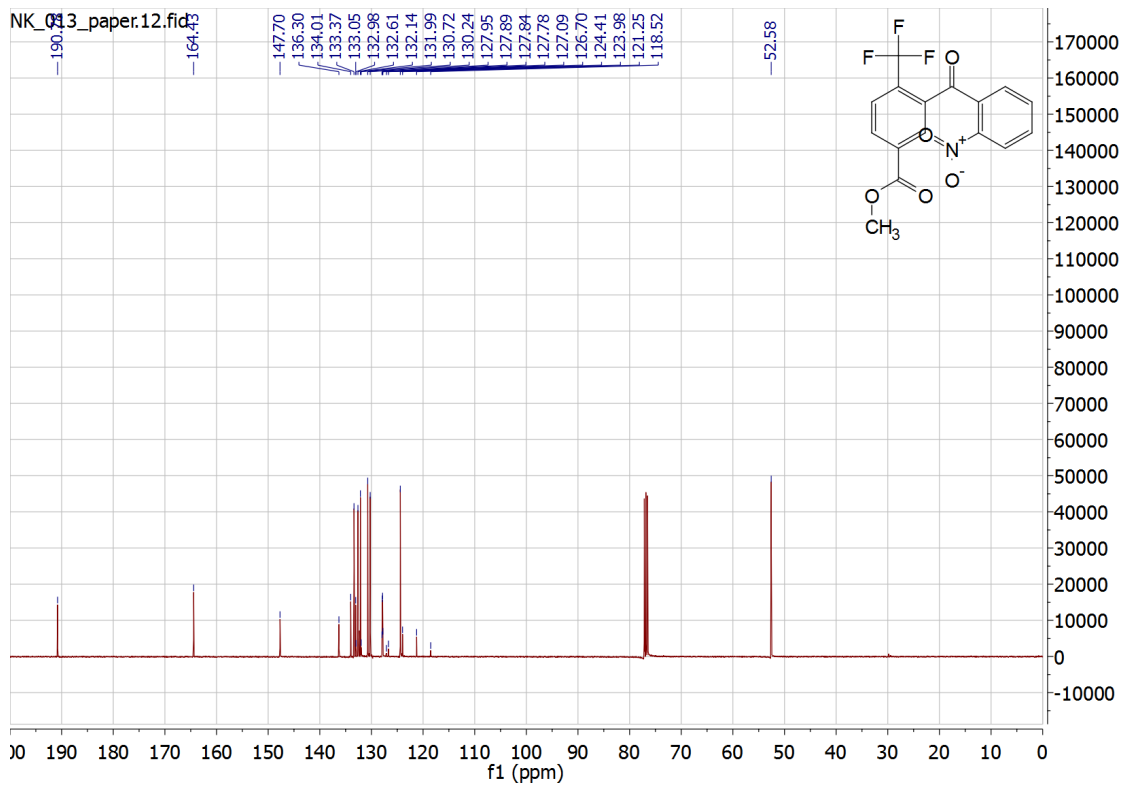
Methyl 3-(3-nitrobenzoyl)-4-(trifluoromethyl)benzoate (2n):



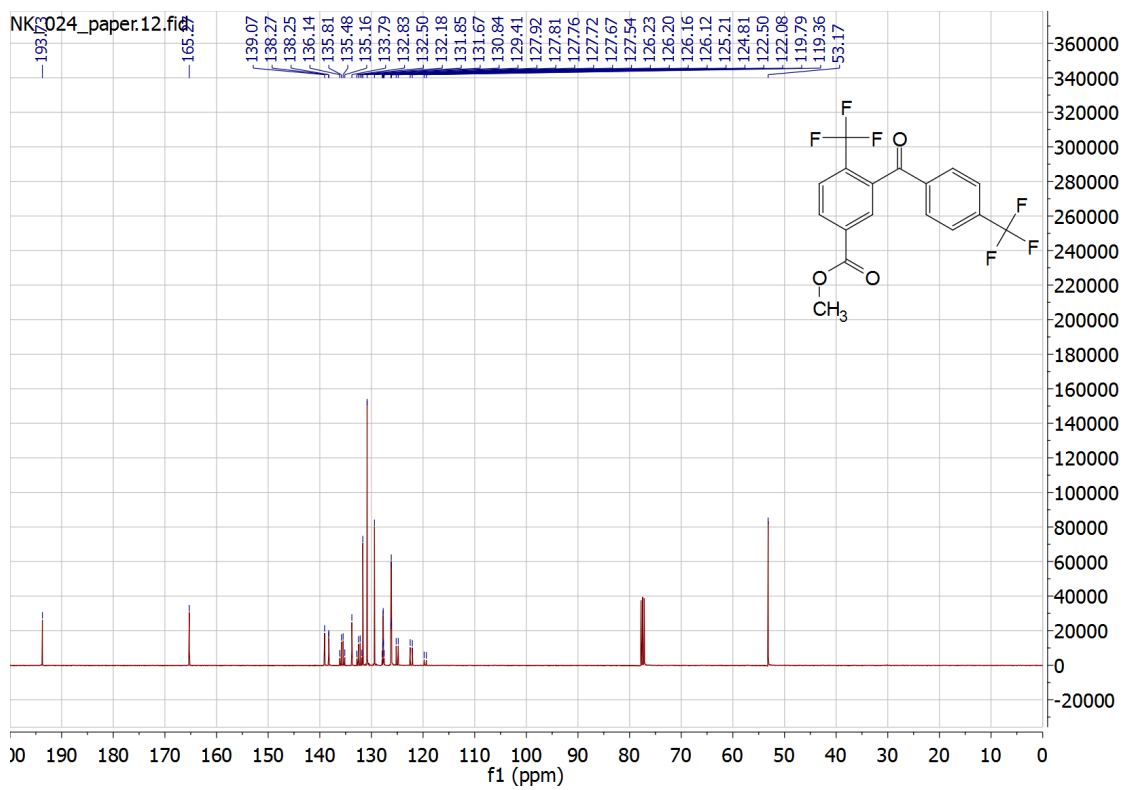
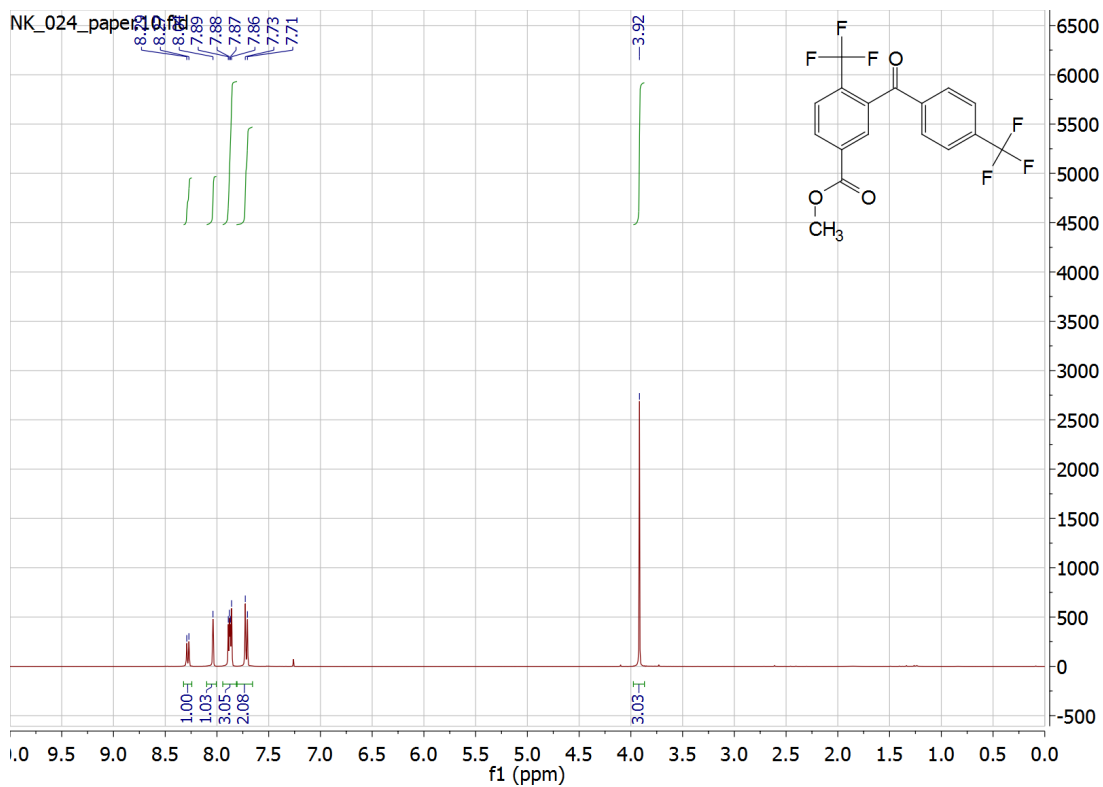


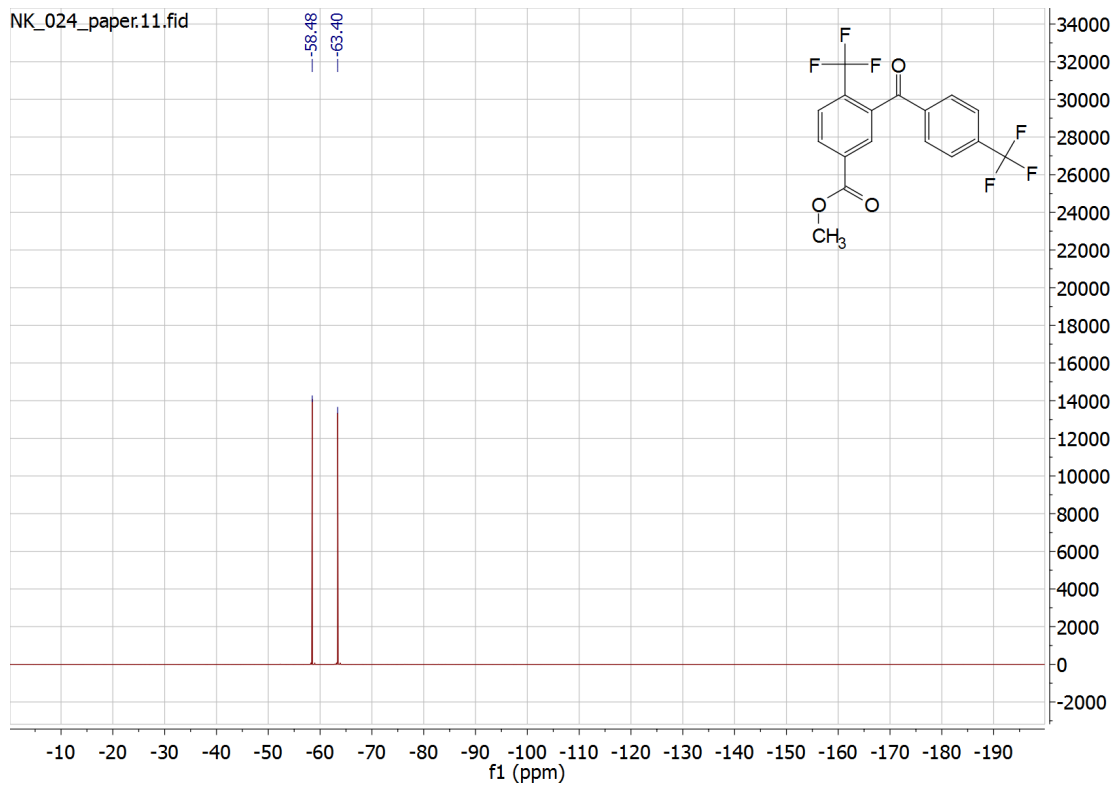
Methyl 3-(2-nitrobenzoyl)-4-(trifluoromethyl)benzoate (2o):



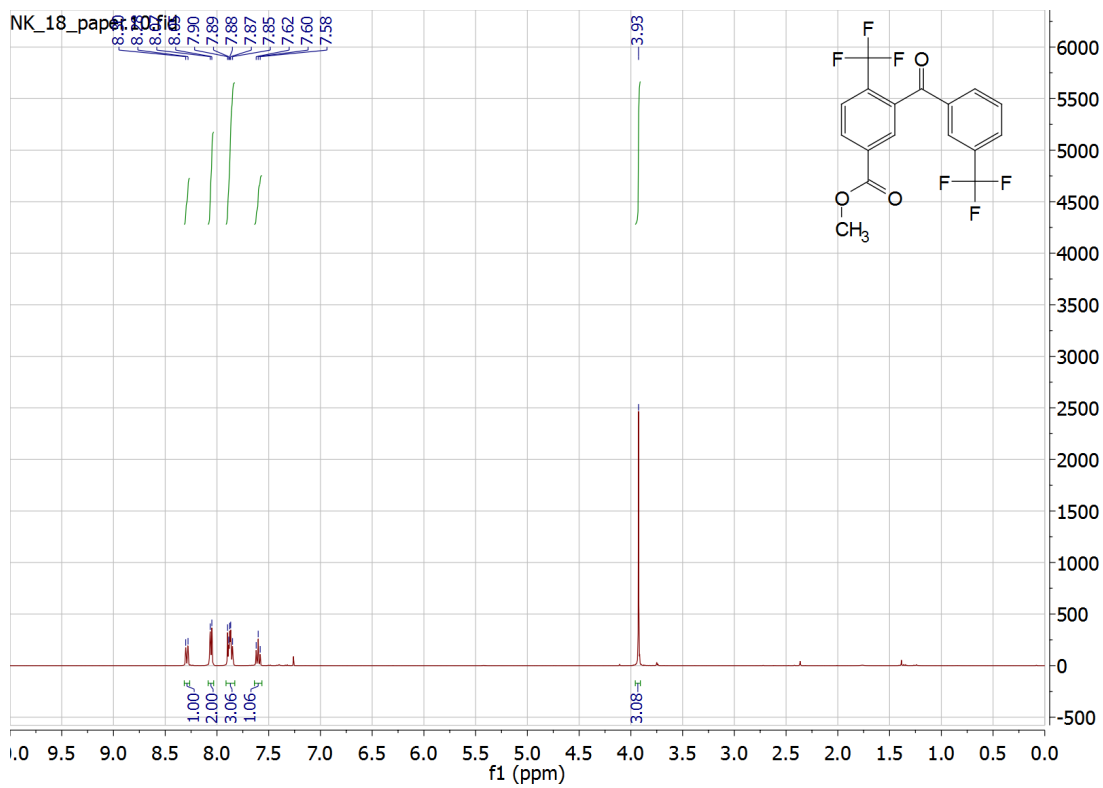


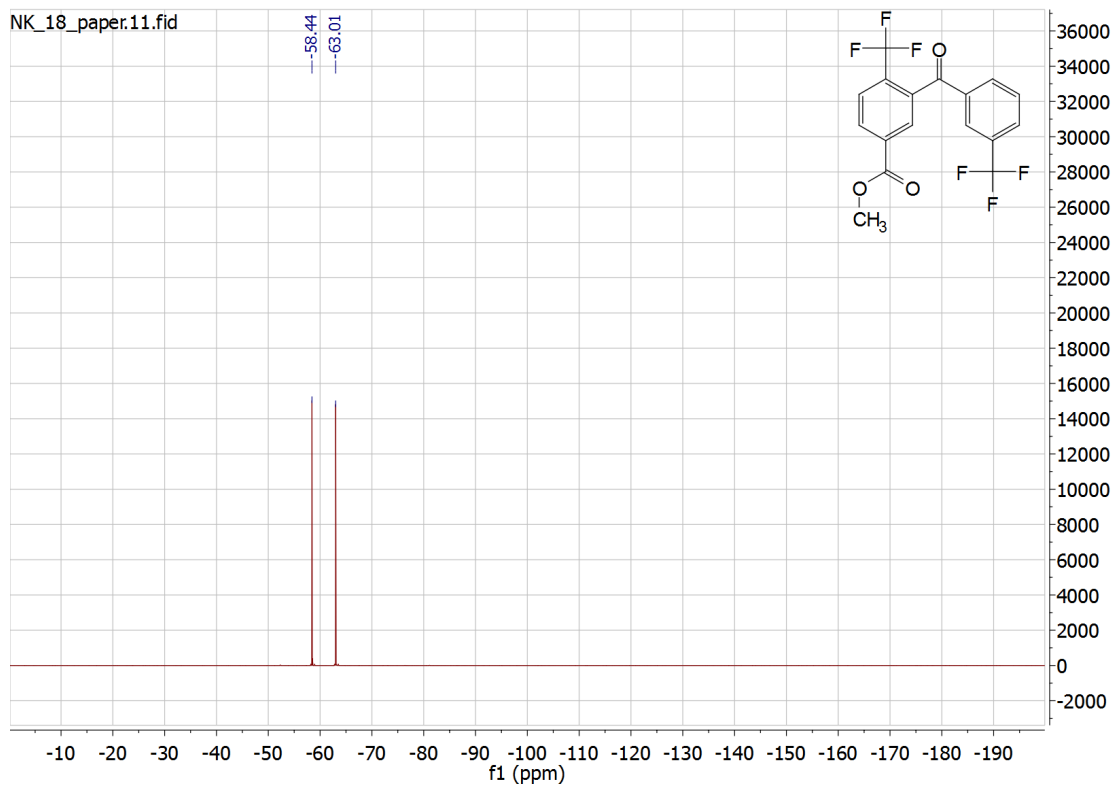
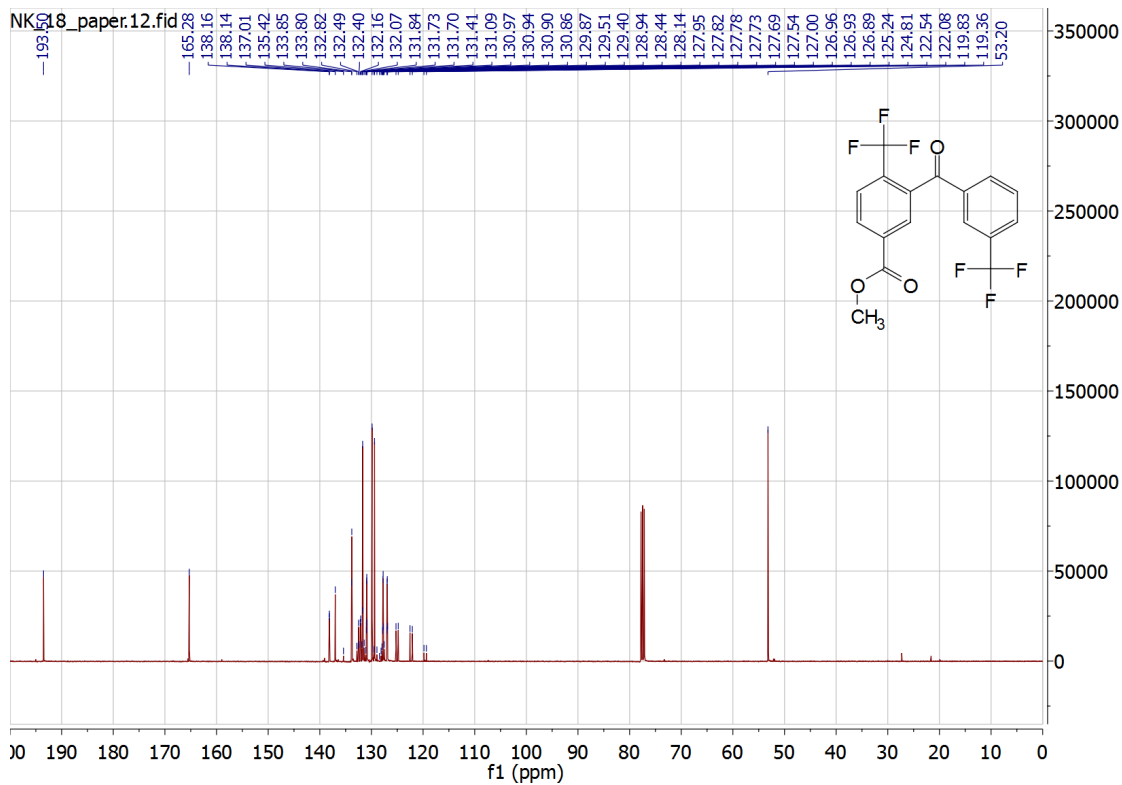
Methyl 4-(trifluoromethyl)-3-(4-(trifluoromethyl) benzoyl) benzoate (2p):



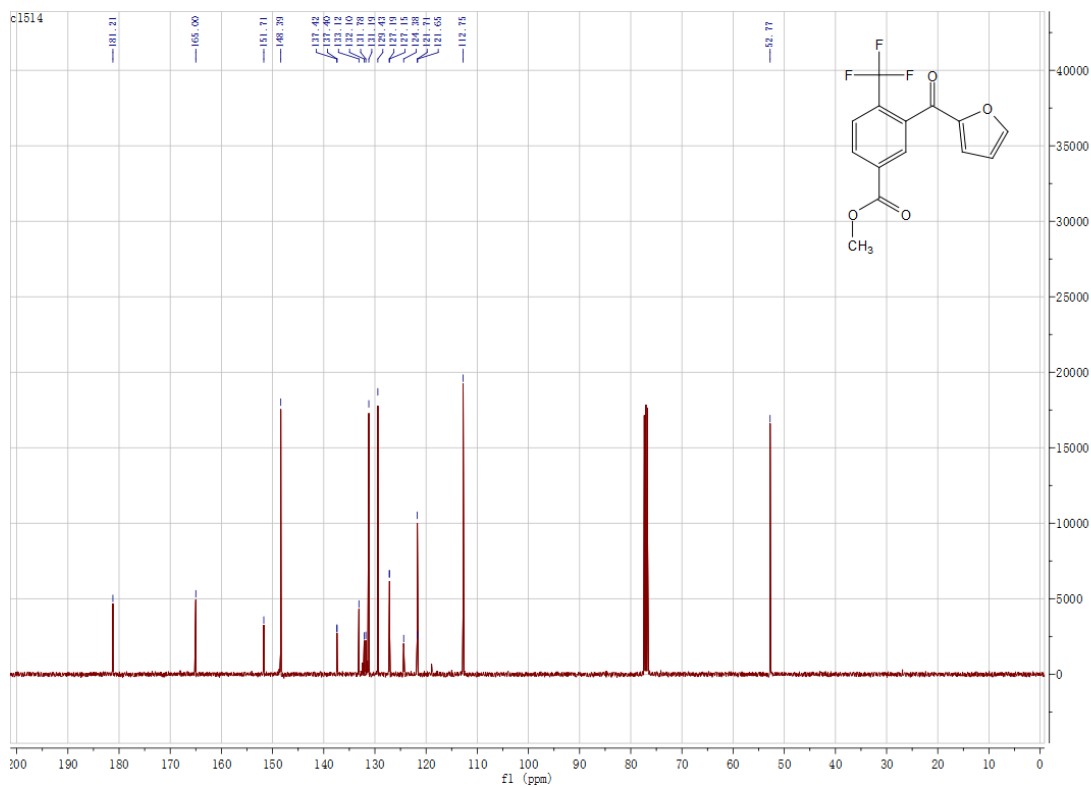
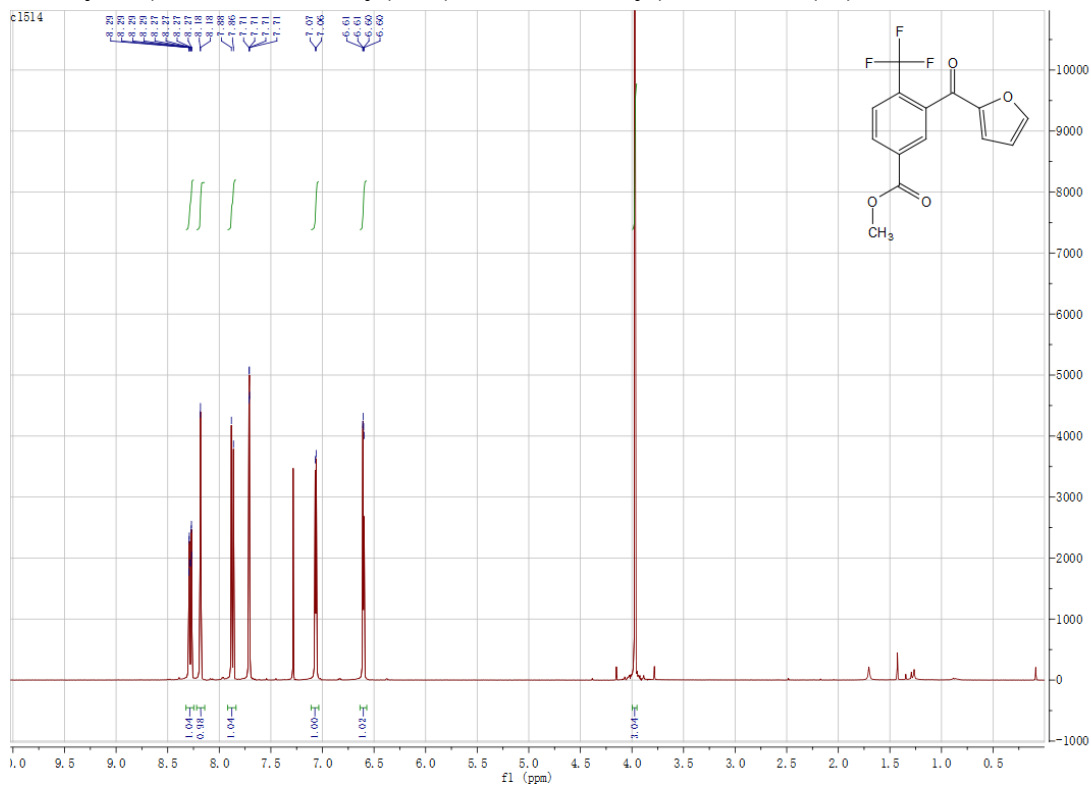


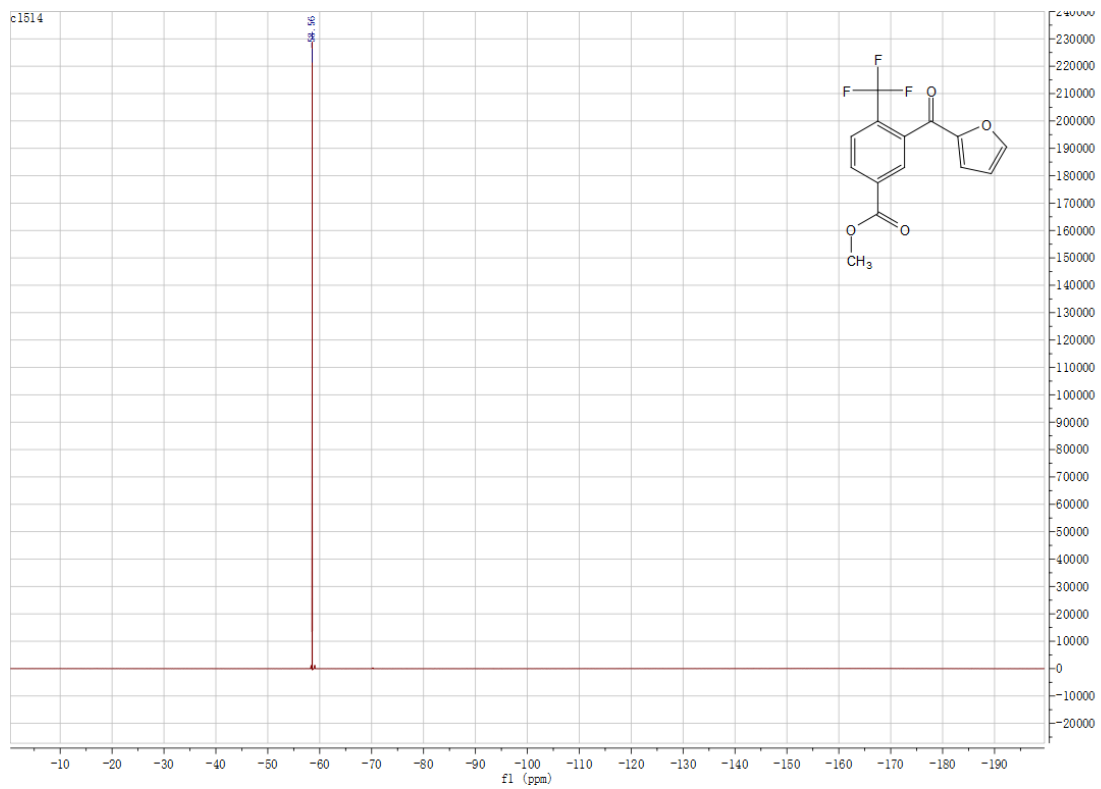
Methyl 3-(3-(trifluoromethyl)benzoyl)-4-(trifluoromethyl)benzoate (2q):



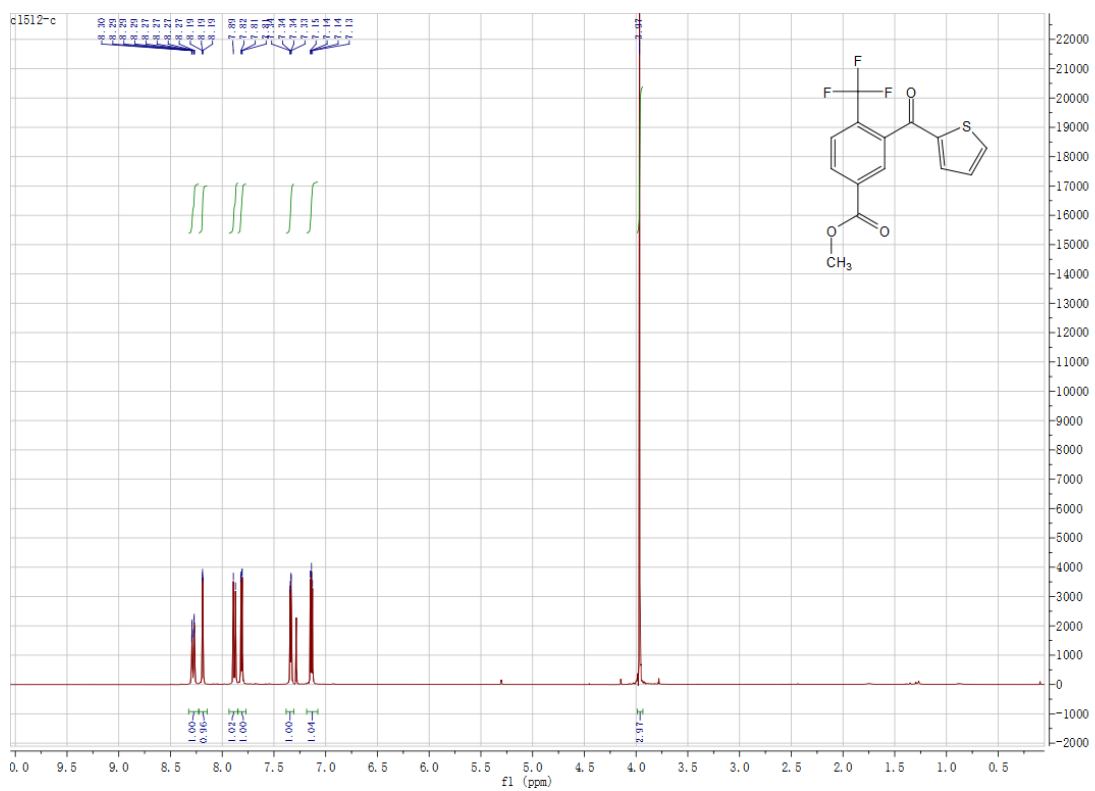


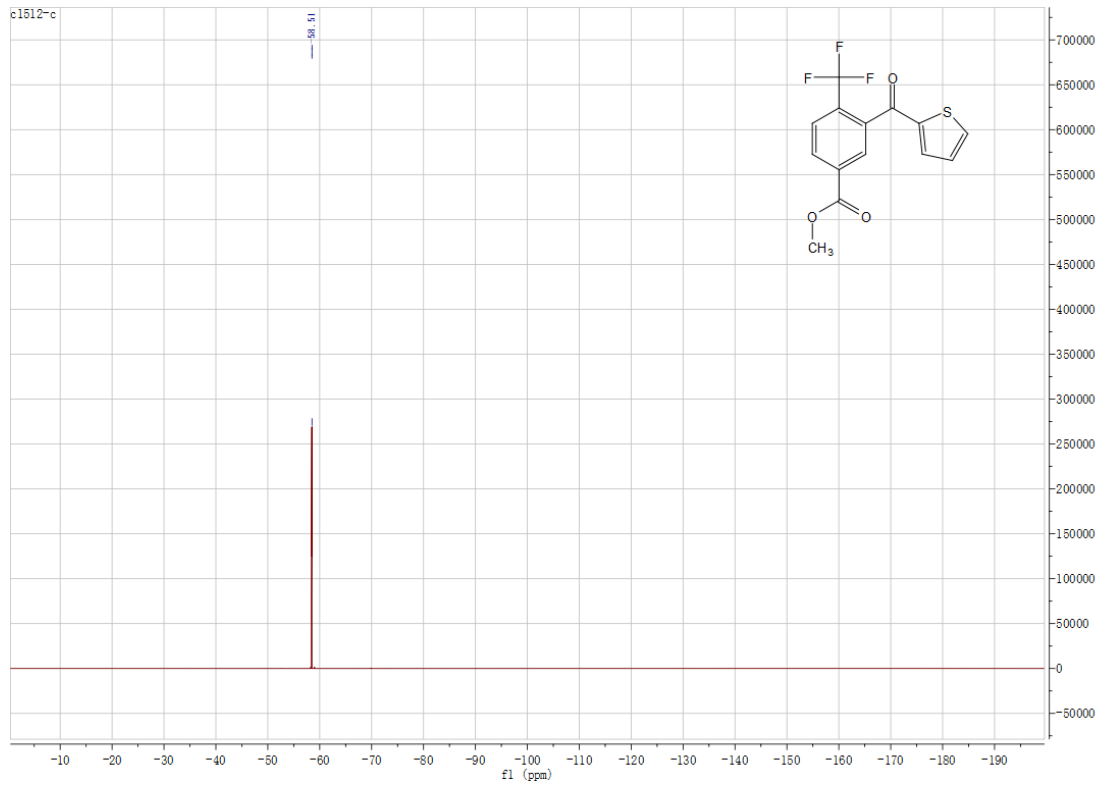
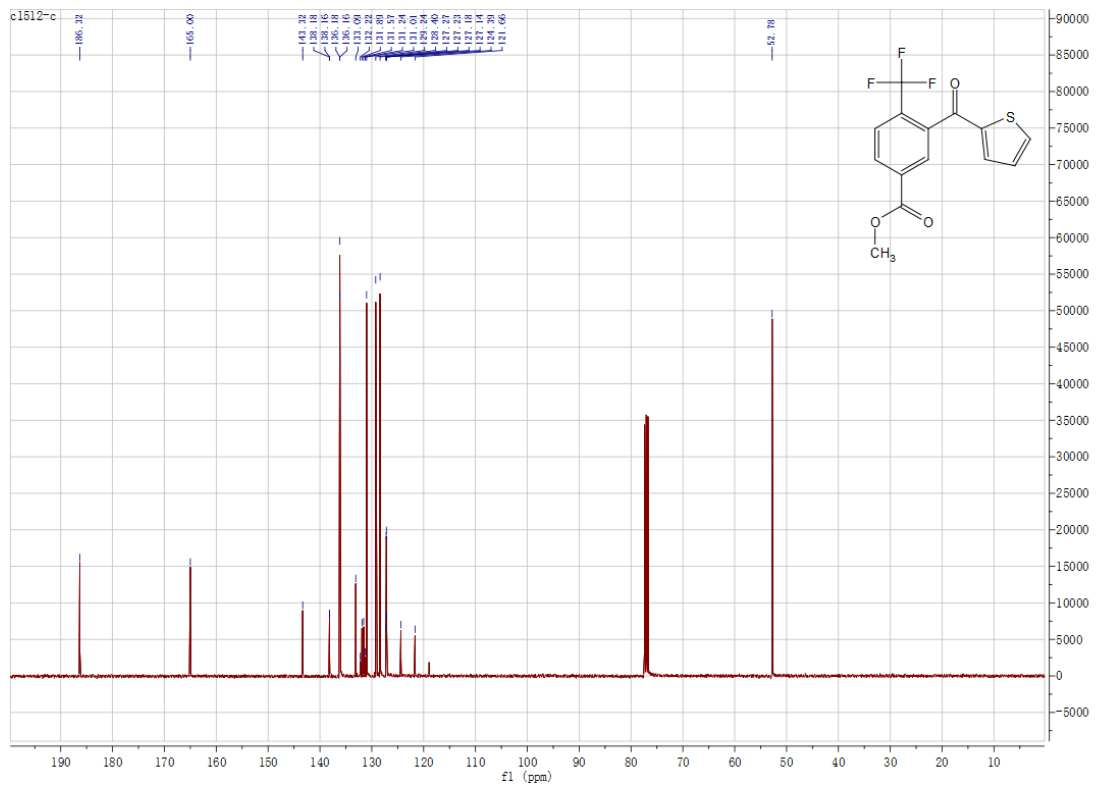
Methyl 3-(furan-2-carbonyl)-4-(trifluoromethyl) benzoate (2r):



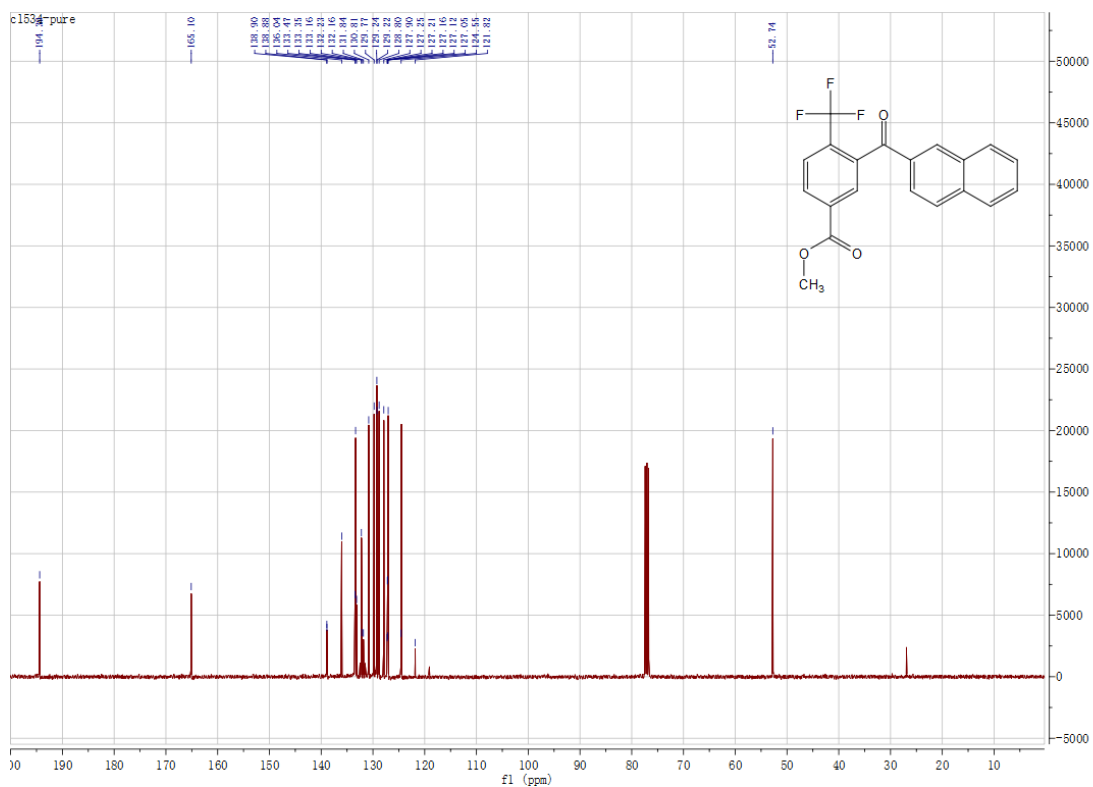
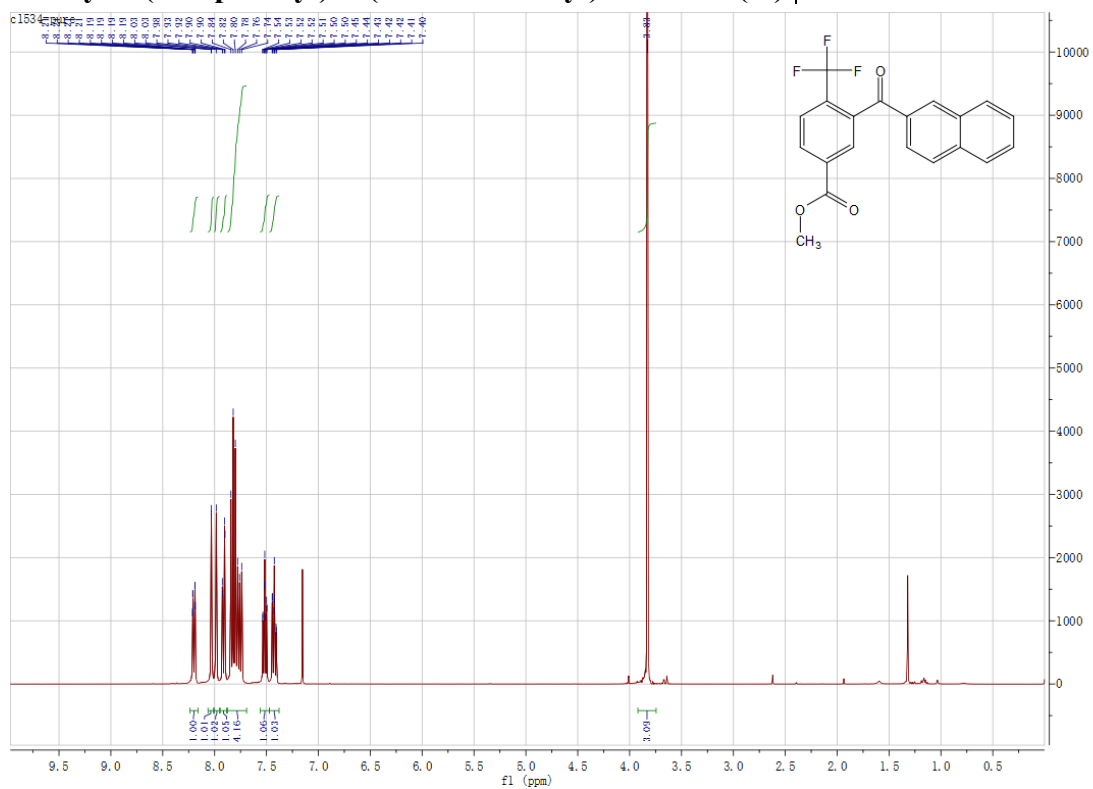


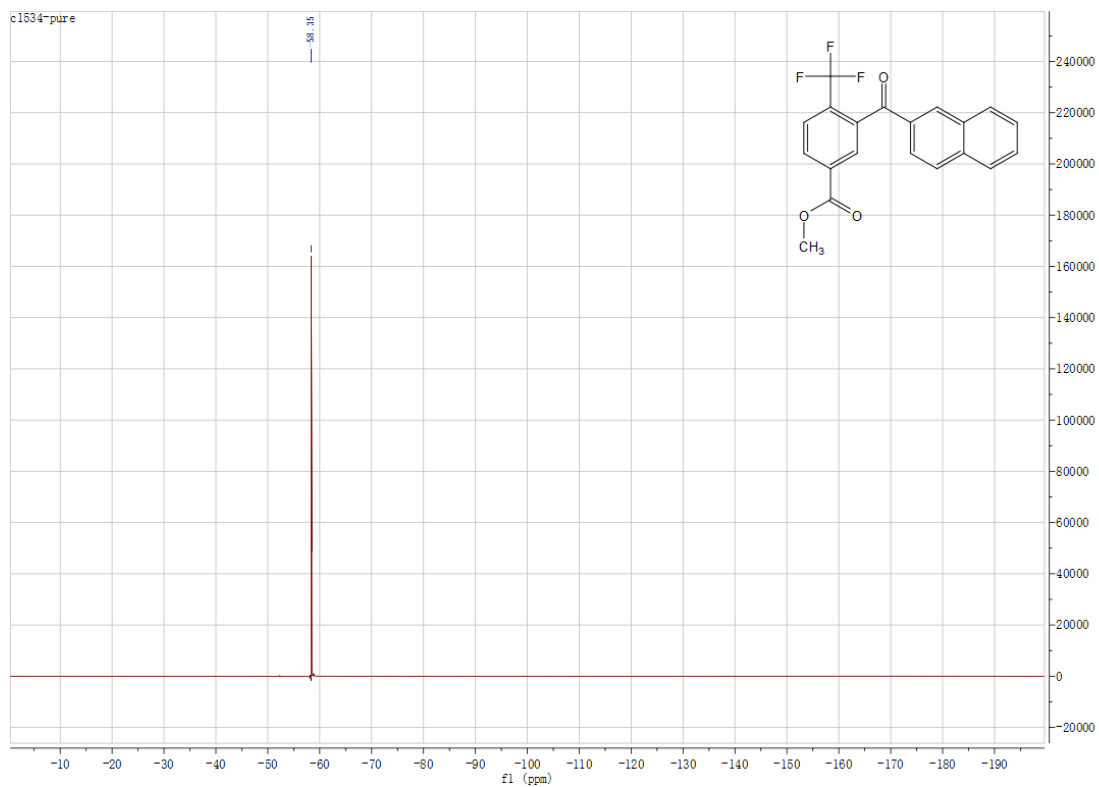
Methyl 3-(thiophene-2-carbonyl)-4-(trifluoromethyl) benzoate: (2s)



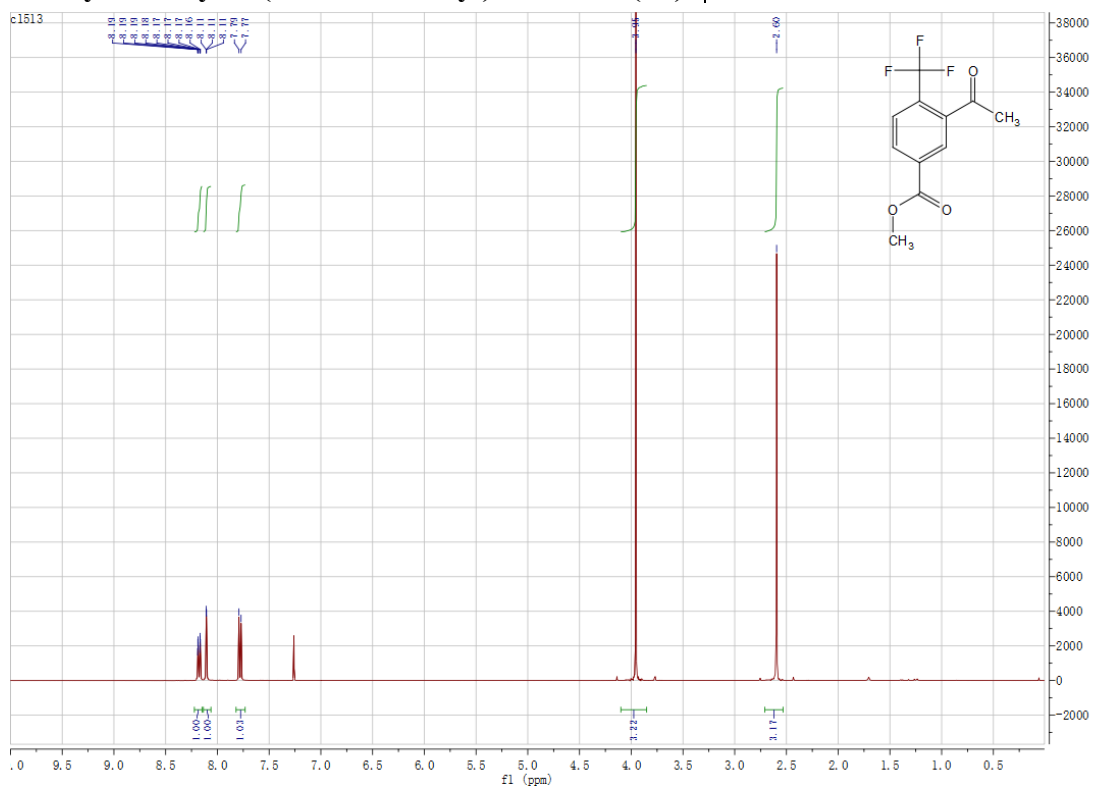


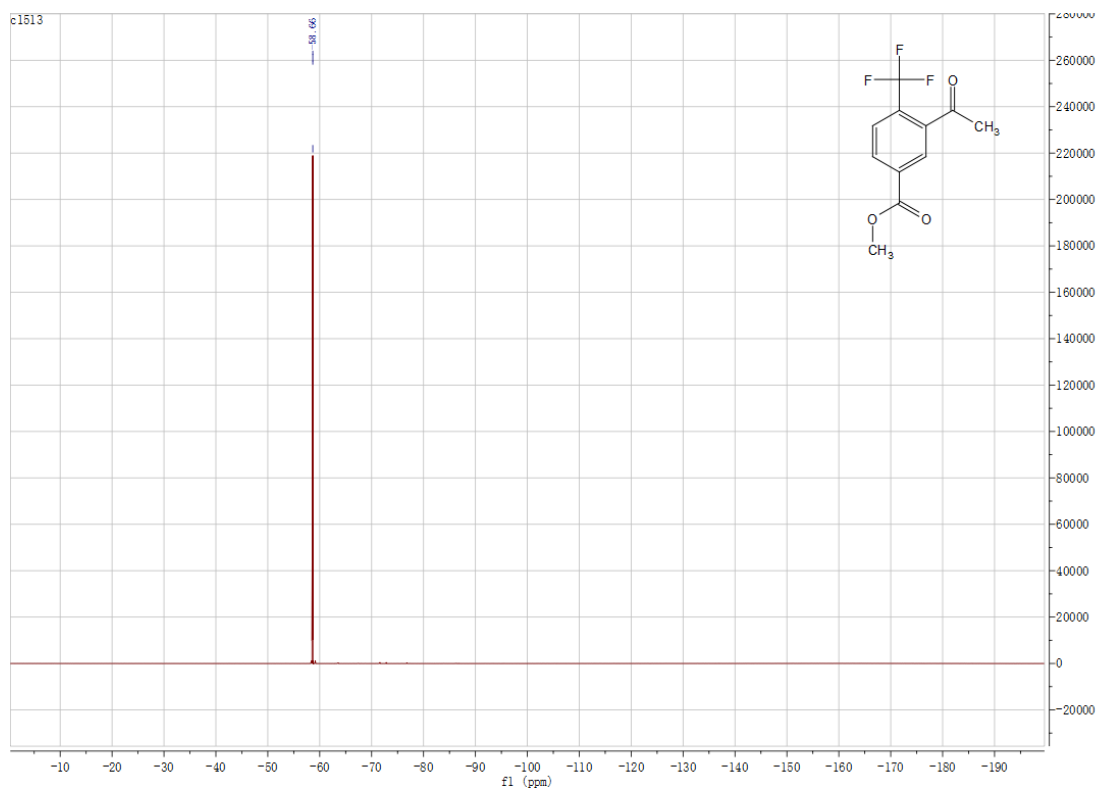
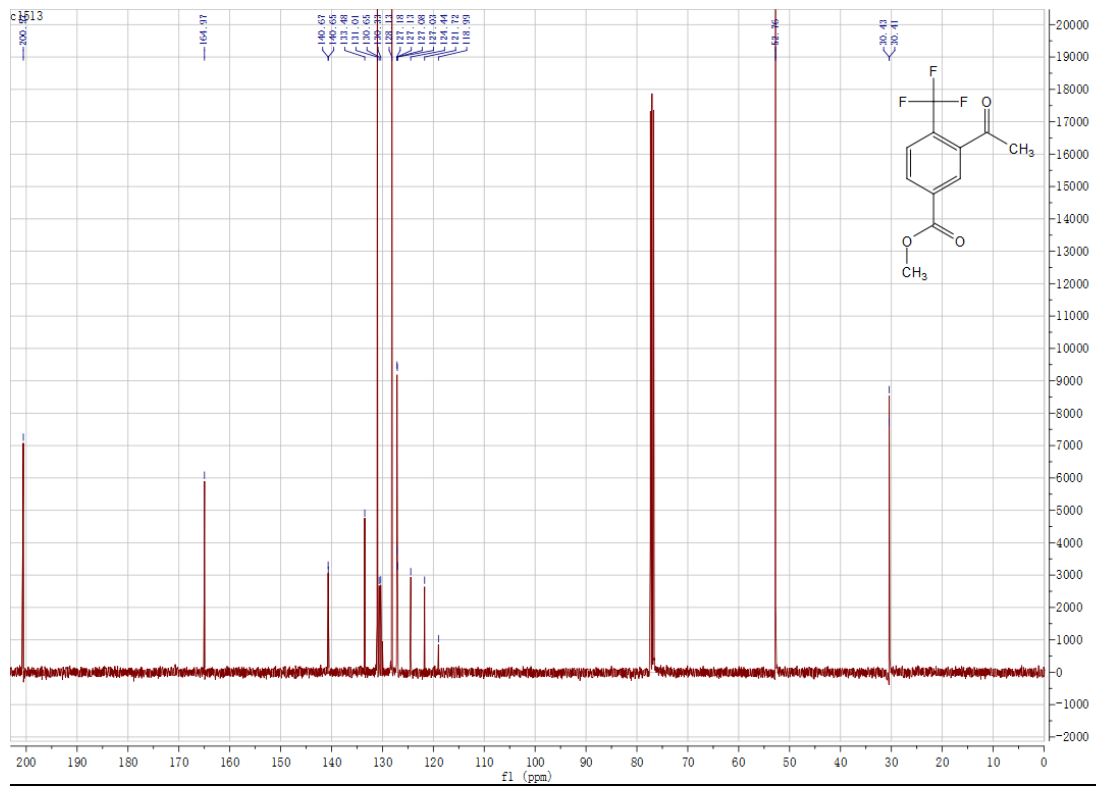
Methyl 3-(2-naphthoyl)-4-(trifluoromethyl) benzoate (2t):



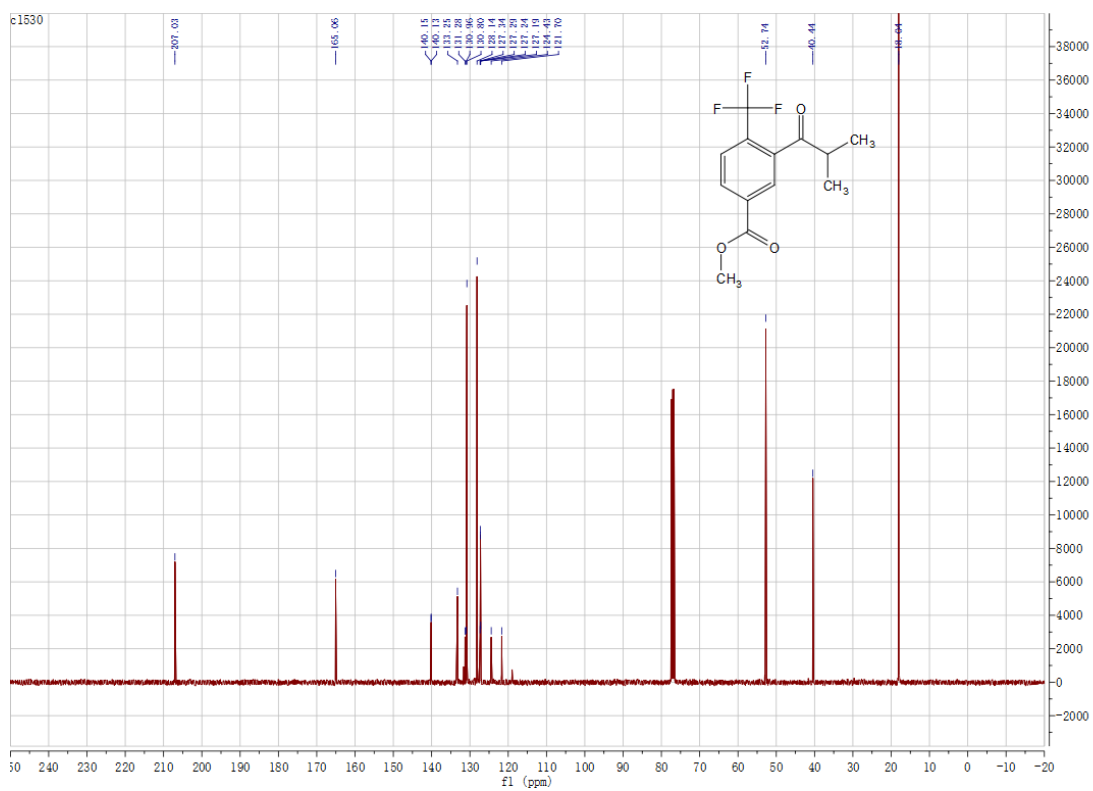
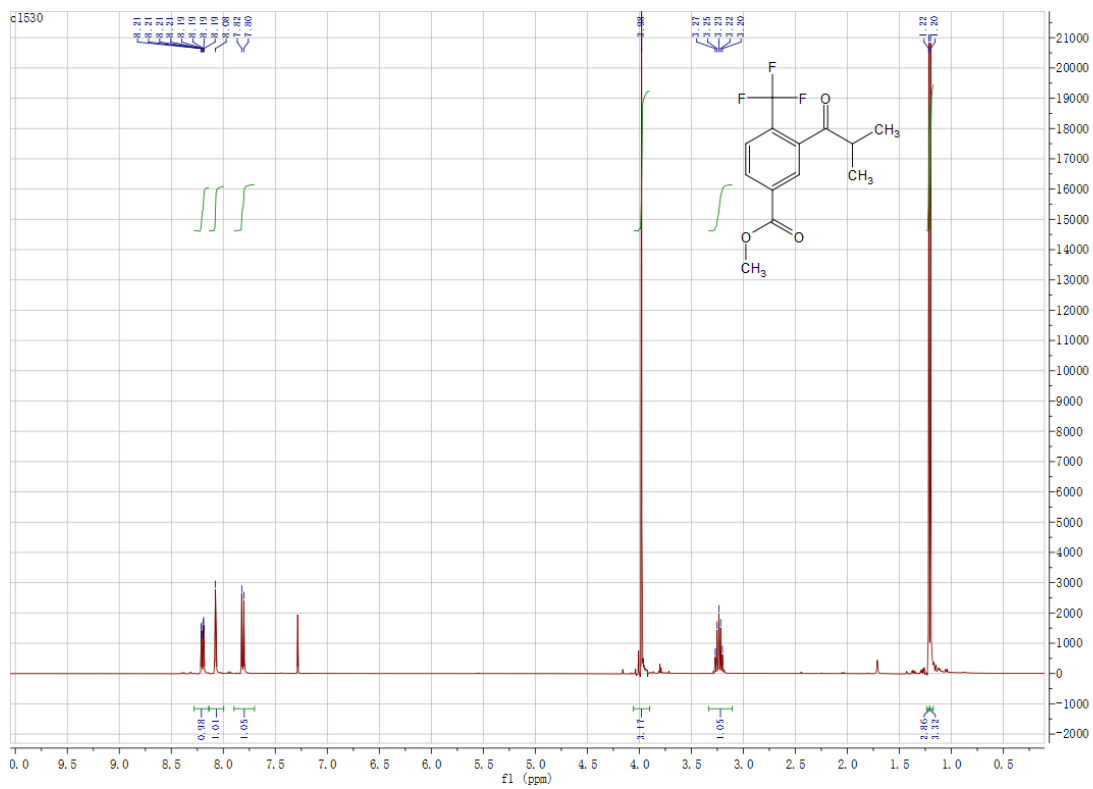


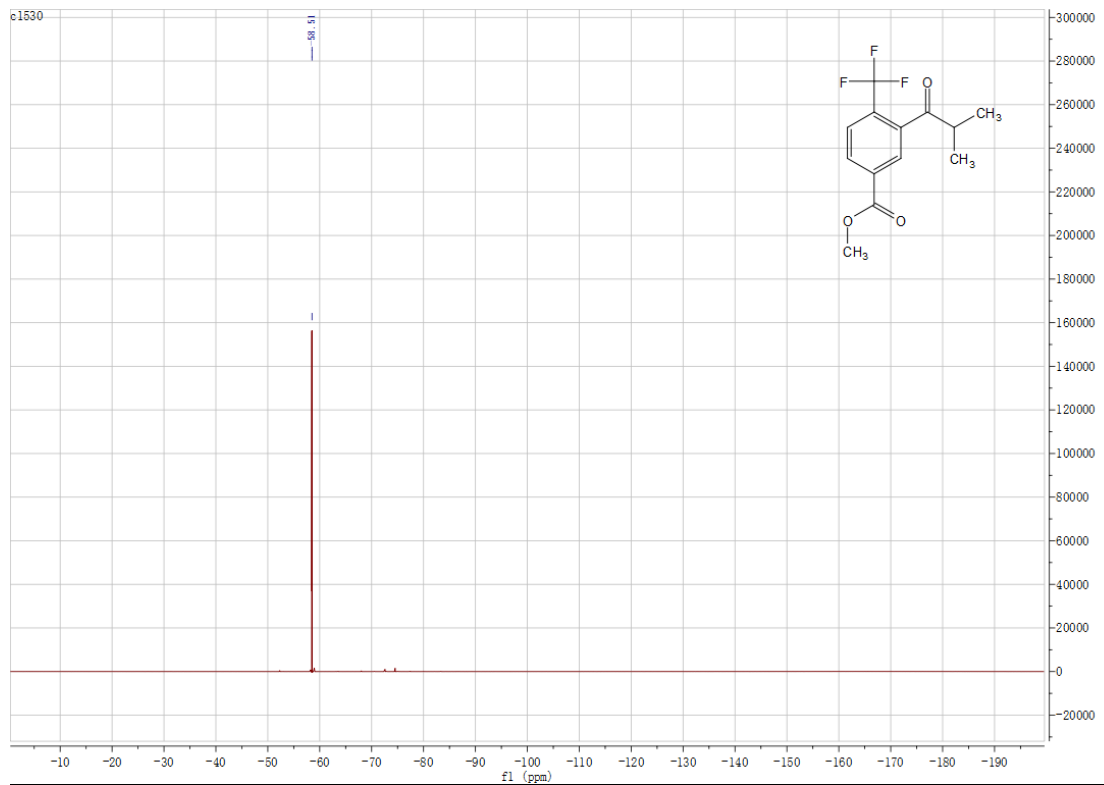
Methyl 3-acetyl-4-(trifluoromethyl) benzoate (2u) :



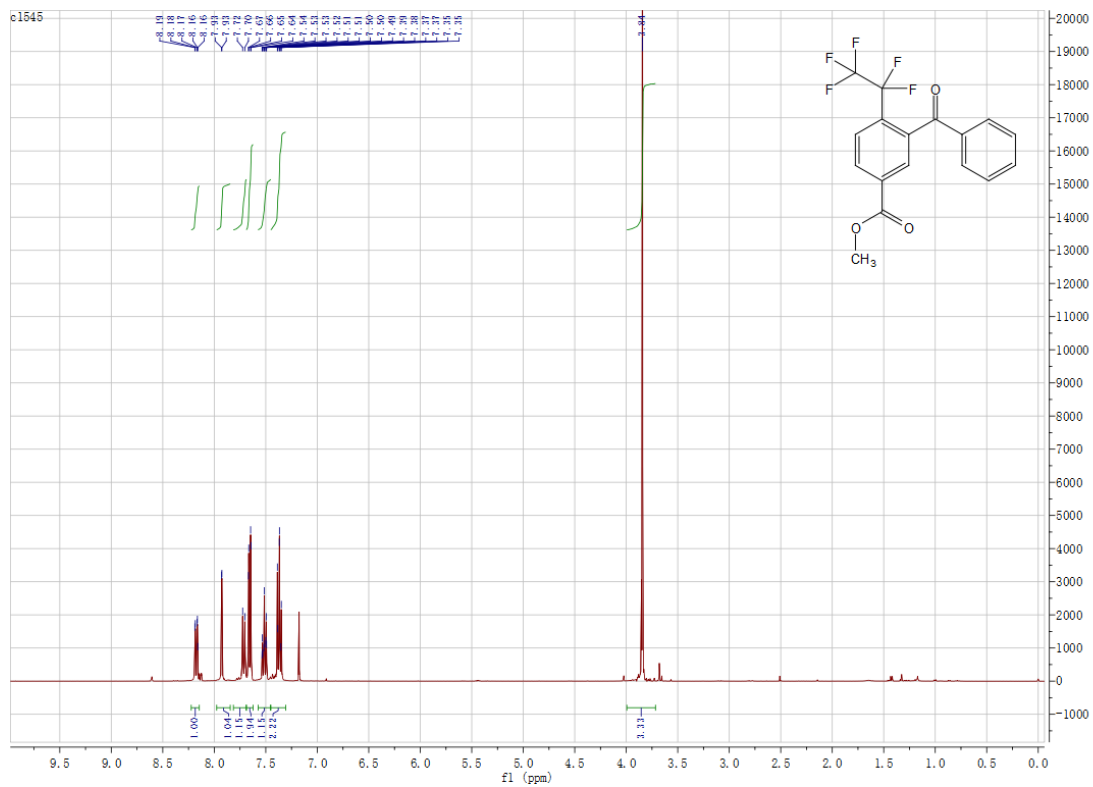


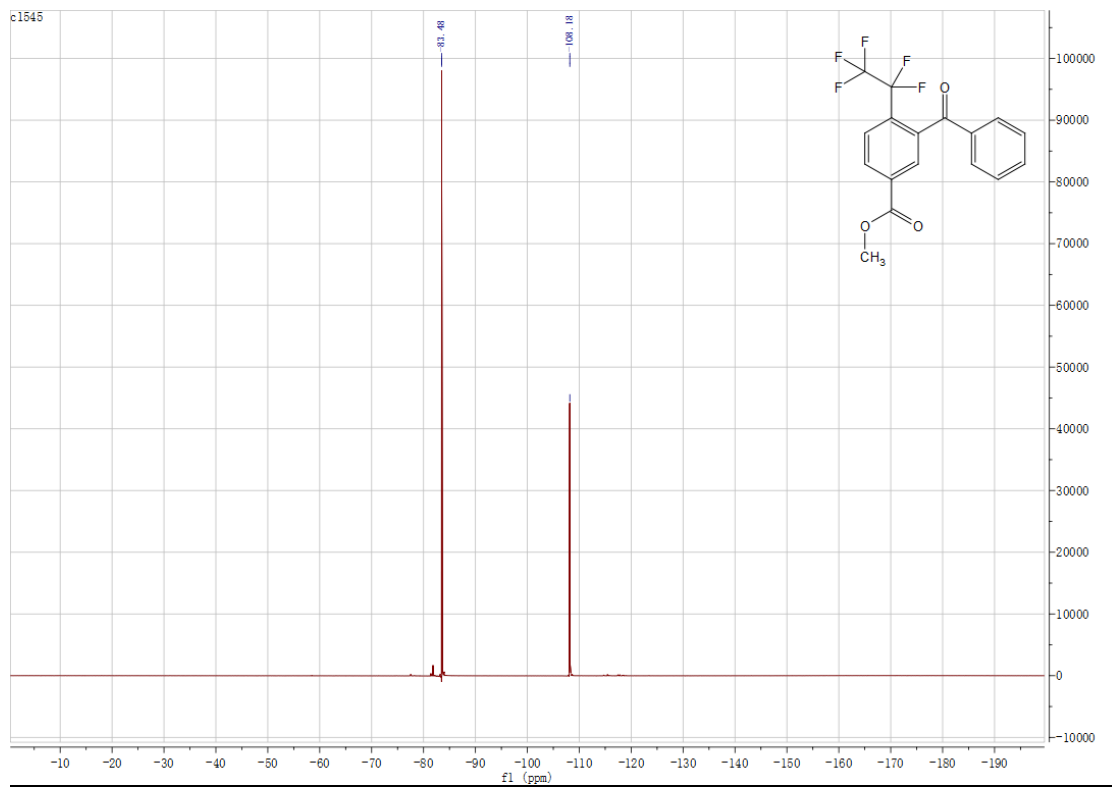
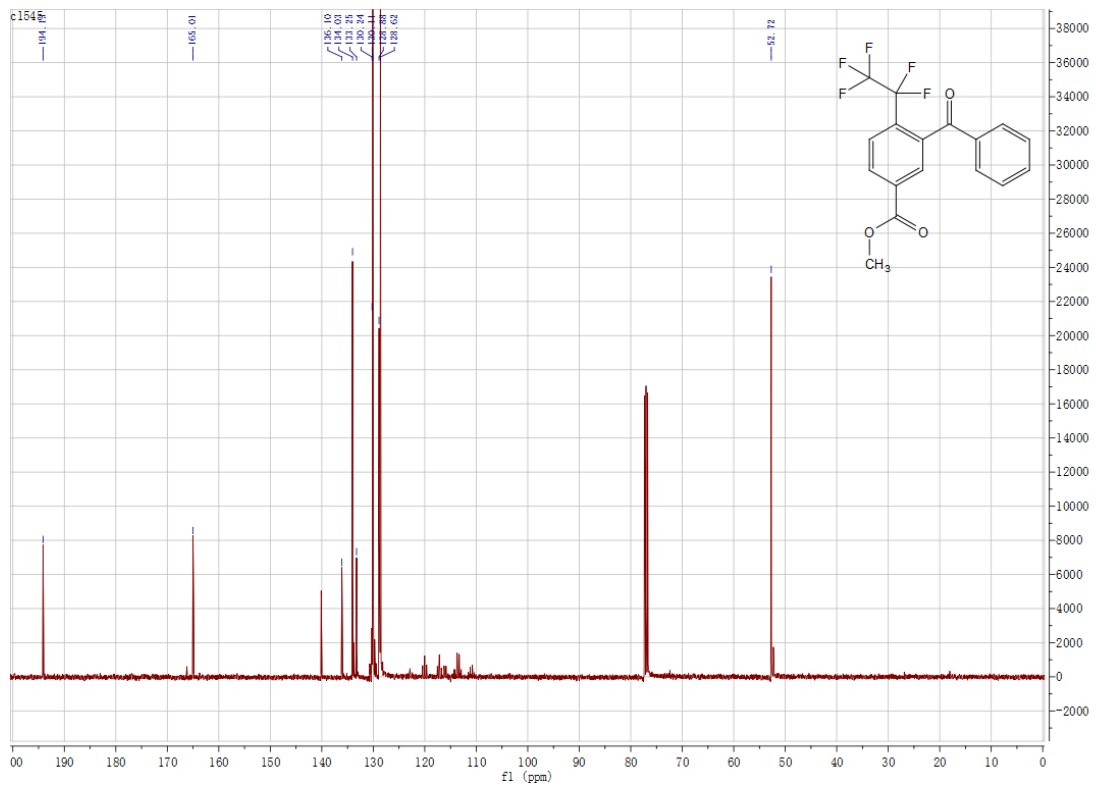
Methyl 3-isobutyryl-4-(trifluoromethyl) benzoate (1v):





Methyl 3-benzoyl-4-(perfluoroethyl) benzoate (2x):





Methyl 9-oxo-1-(trifluoromethyl)-9H-fluorene-4-carboxylate (3a):

