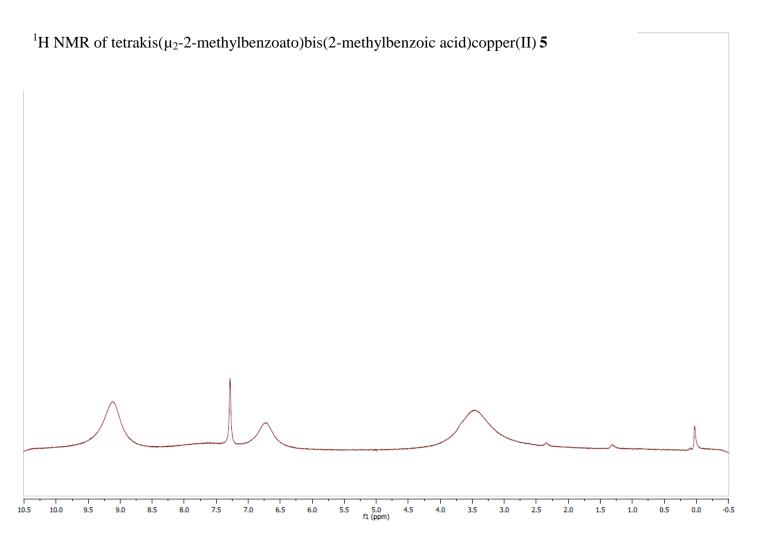
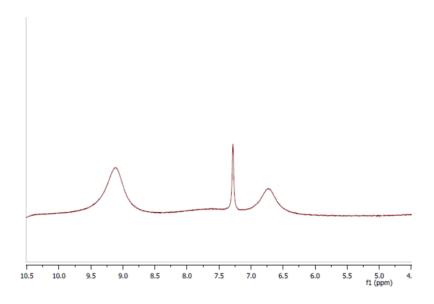
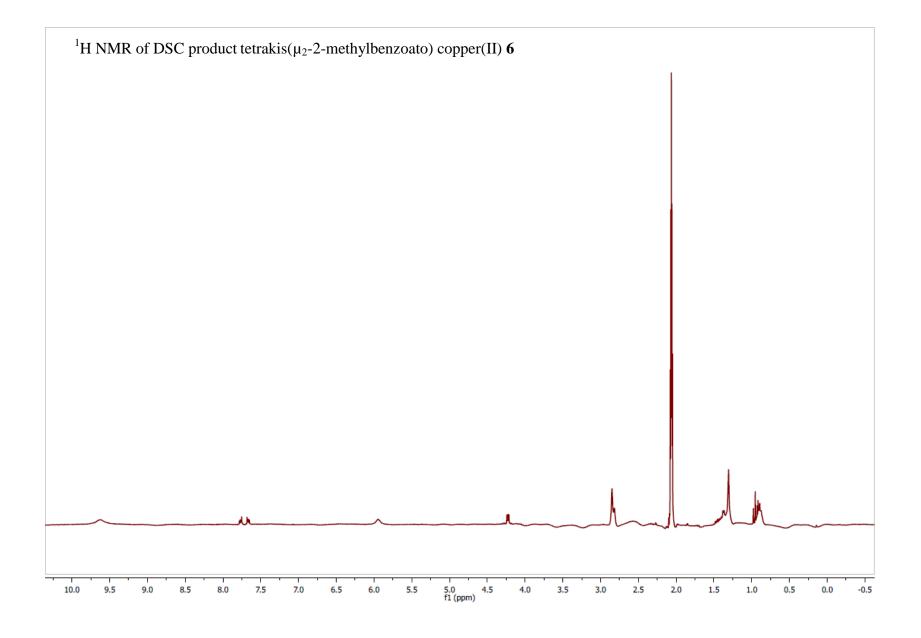
Thermo-analytical determination of intermediates in the copper catalysed rearrangement of o-toluic acid to meta-cresol

Abraham C. Sunil, Ernst H.G. Langner, Charlene Marais, and Barend C.B. Bezuidenhoudt^{a*}

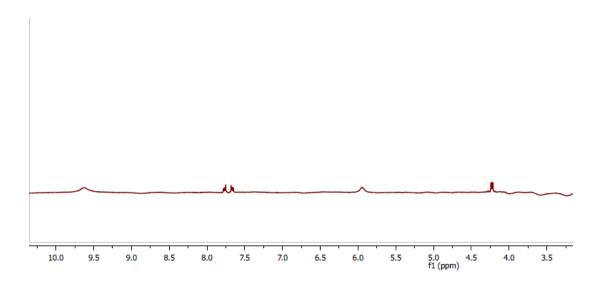


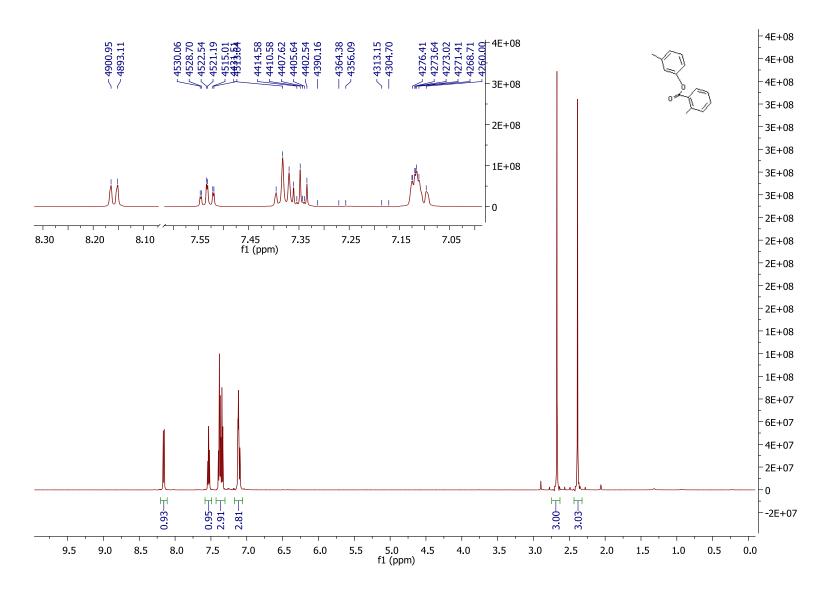
 1H NMR of tetrakis(μ_2 -2-methylbenzoato)bis(2-methylbenzoic acid)copper(II) ${f 5}$



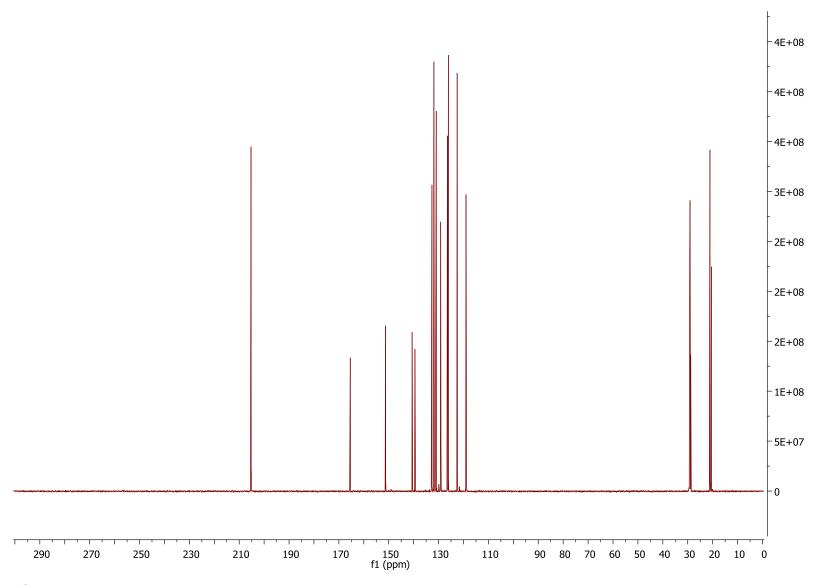


¹H NMR of DSC product tetrakis(µ₂-2-methylbenzoato) copper(II) **6**

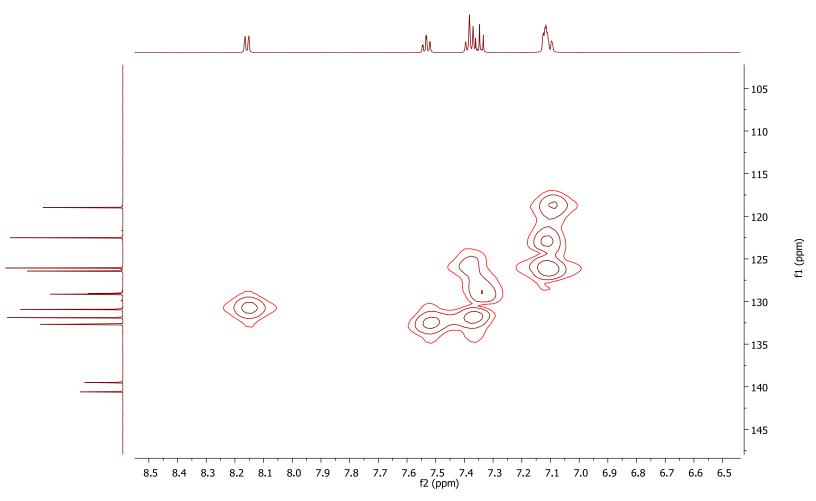




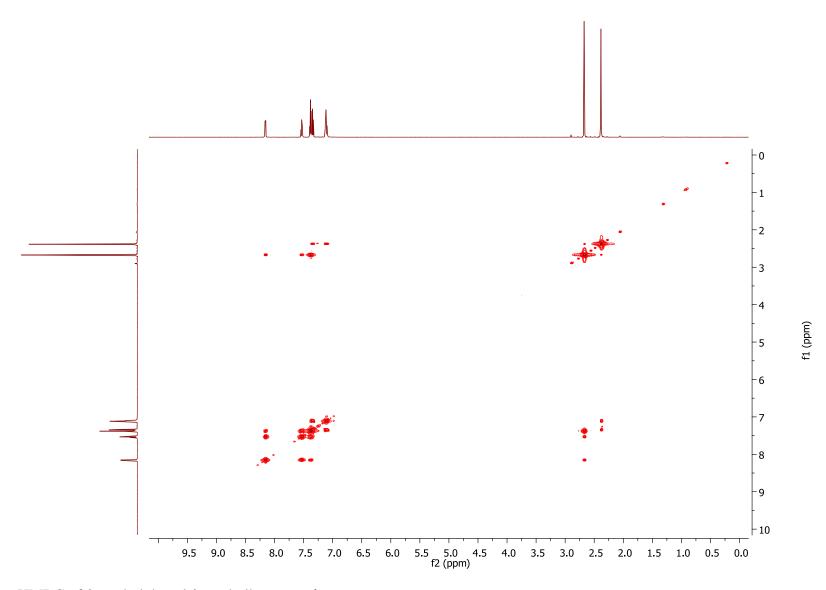
¹H NMR of 3-methylphenyl 2-methylbenzoate **4**



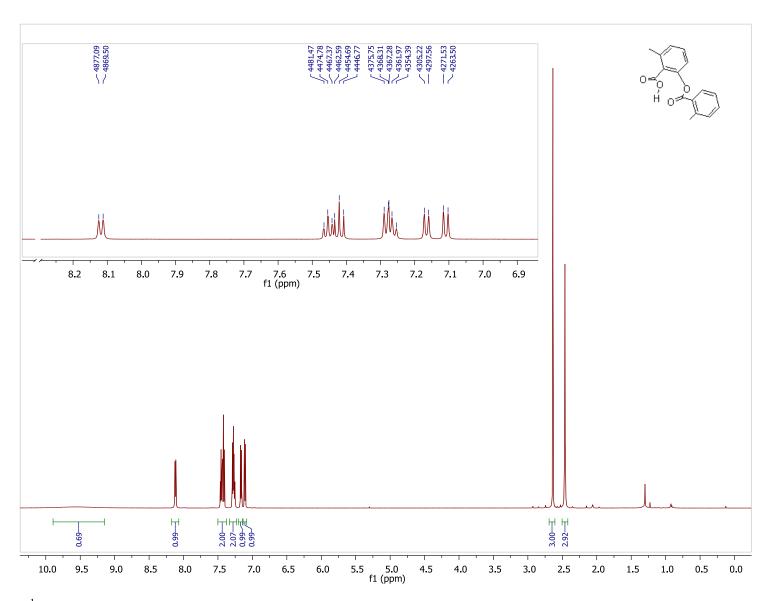
¹³C NMR of 3-methylphenyl 2-methylbenzoate **4**



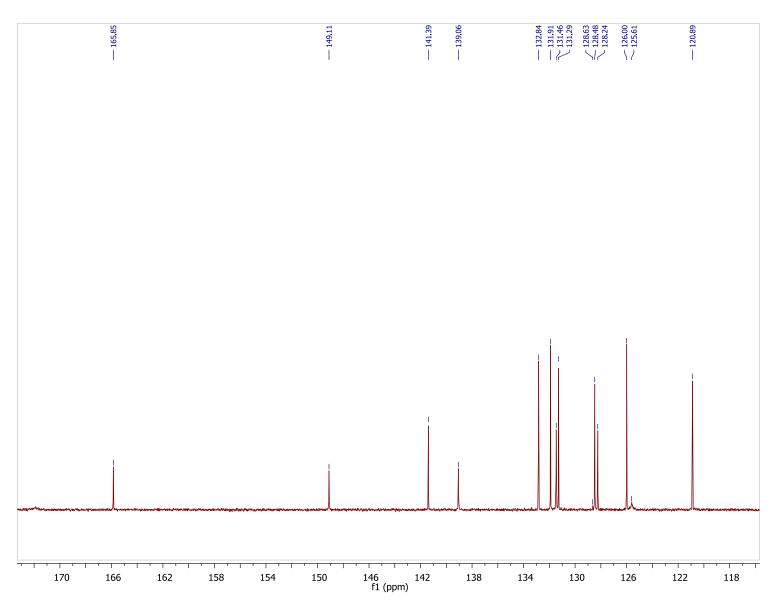
HSQC of 3-methylphenyl 2-methylbenzoate **4**



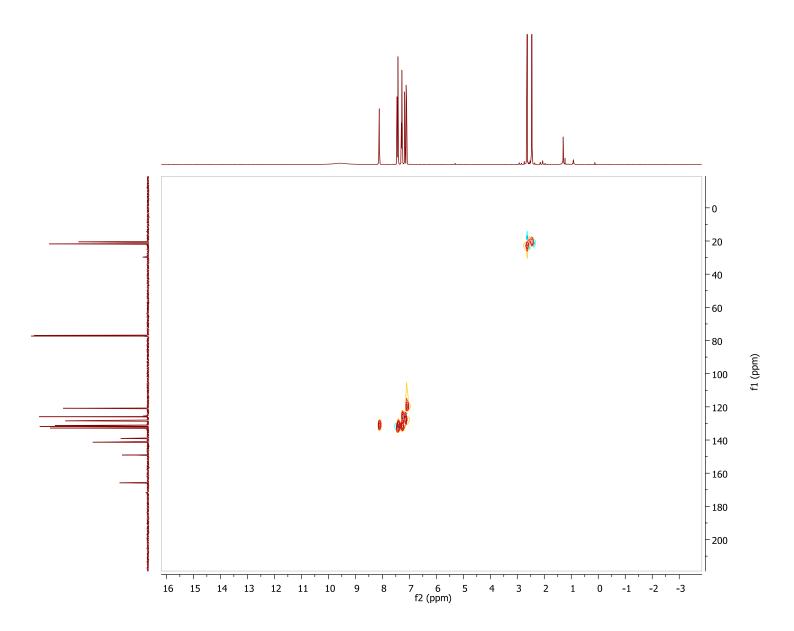
HMBC of 3-methylphenyl 2-methylbenzoate 4



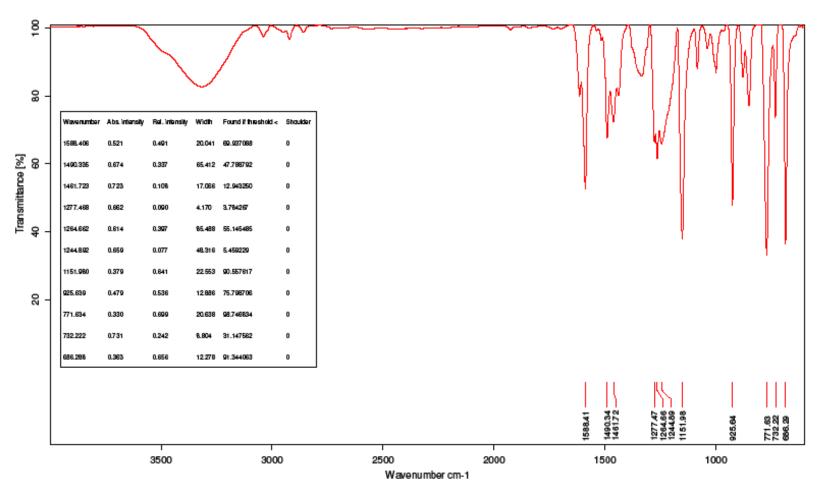
¹H NMR of 2-methyl-6-{[(2-methylphenyl)carbonyl]oxy}benzoic acid **3**



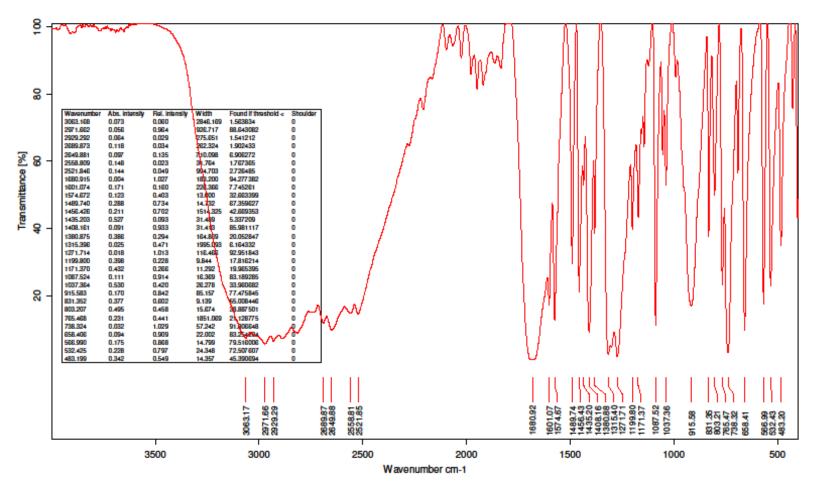
¹³C NMR of 2-methyl-6-{[(2-methylphenyl)carbonyl]oxy}benzoic acid **3**



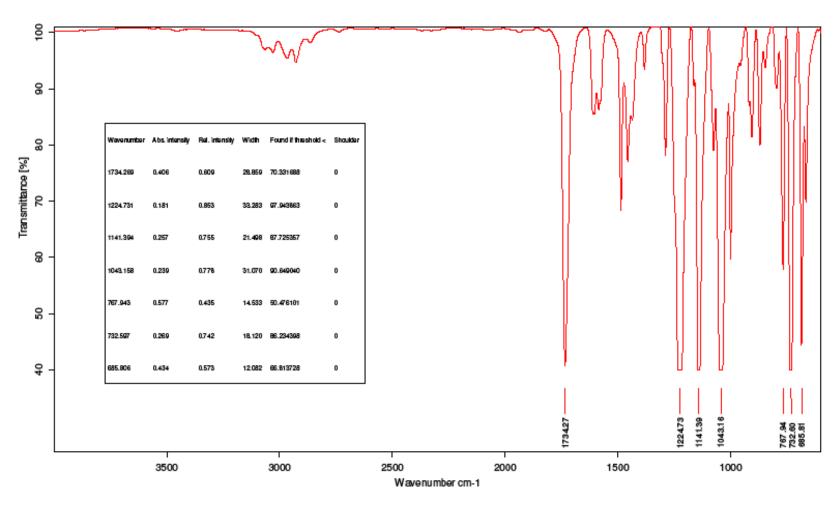
HSQC of 2-methyl-6- $\{[(2-methylphenyl)carbonyl]oxy\}$ benzoic acid $\bf 3$



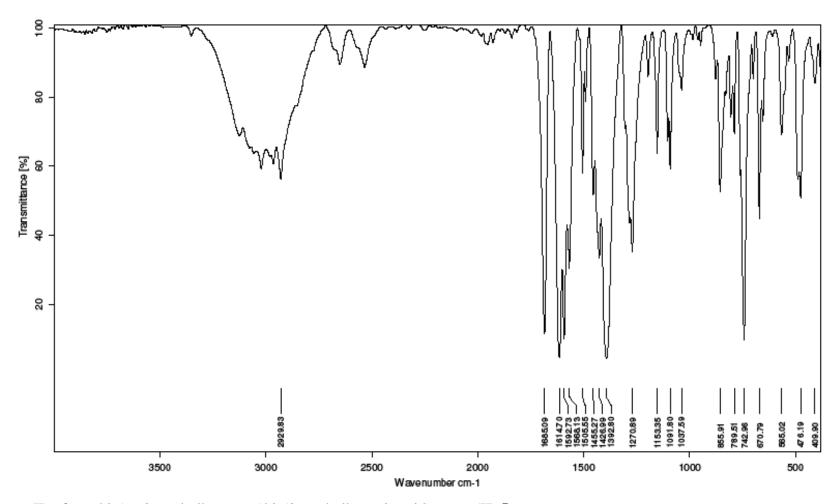
IR of *m*-cresol **1**



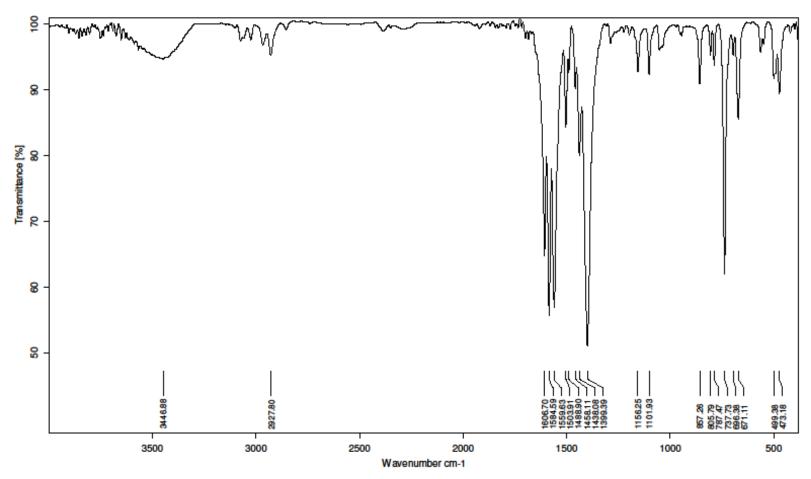
IR of o-toluic acid 2



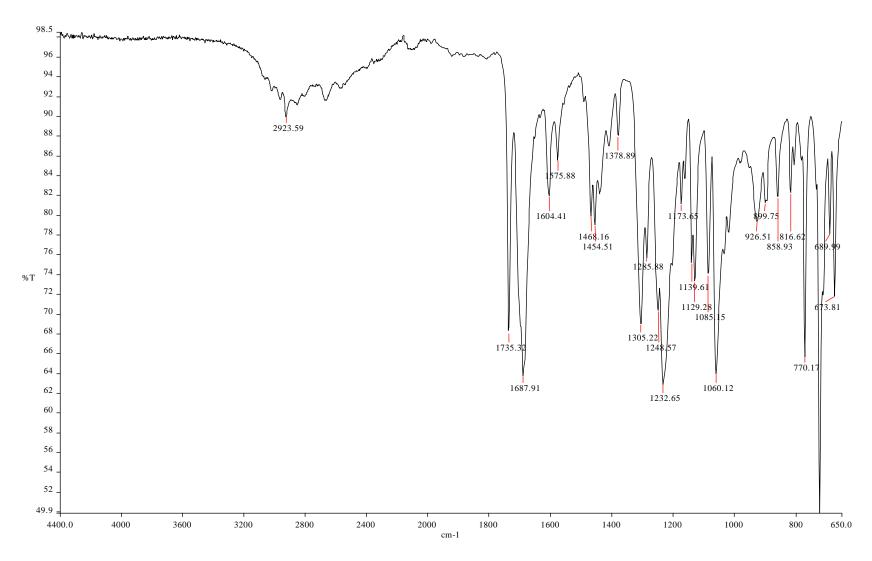
IR of 3-methylphenyl 2-methylbenzoate 4



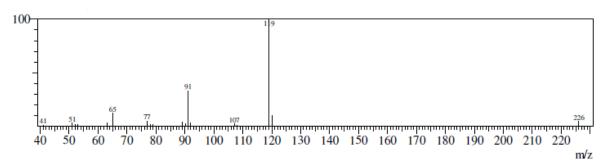
IR of tetrakis(μ_2 -2-methylbenzoato)bis(2-methylbenzoic acid)copper(II) ${\bf 5}$



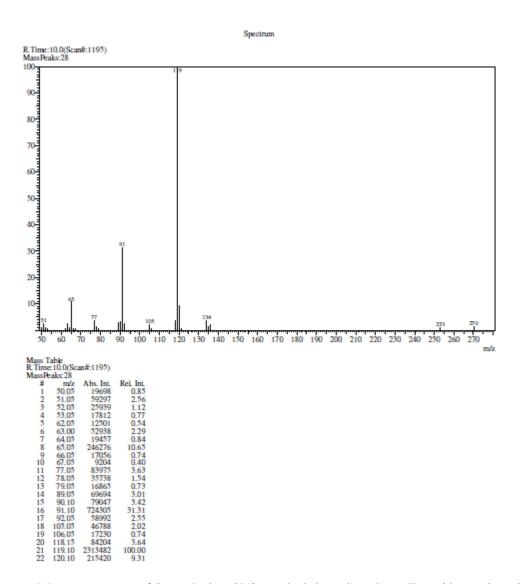
IR of tetrakis(µ₂-2-methylbenzoato) copper(II) **6**



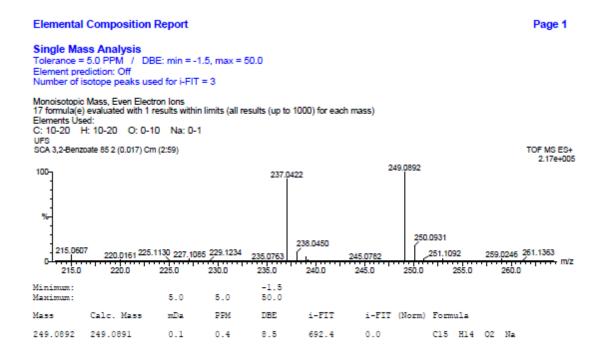
IR of 2-methyl-6-{[(2-methylphenyl)carbonyl]oxy}benzoic acid 3



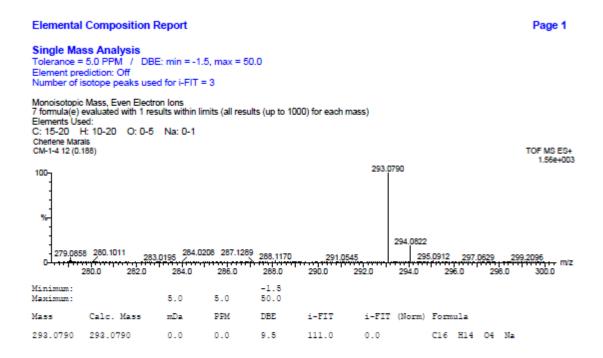
Mass spectrum of 3-methylphenyl 2-methylbenzoate 4



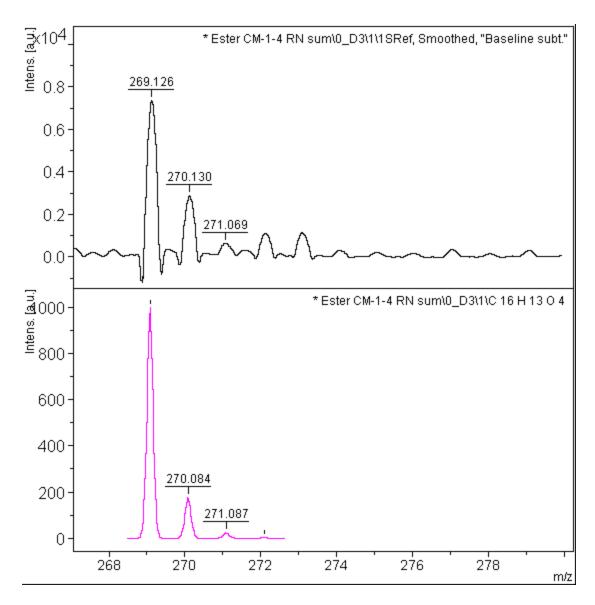
Mass spectrum of 2-methyl-6-{[(2-methylphenyl)carbonyl]oxy}benzoic acid 3



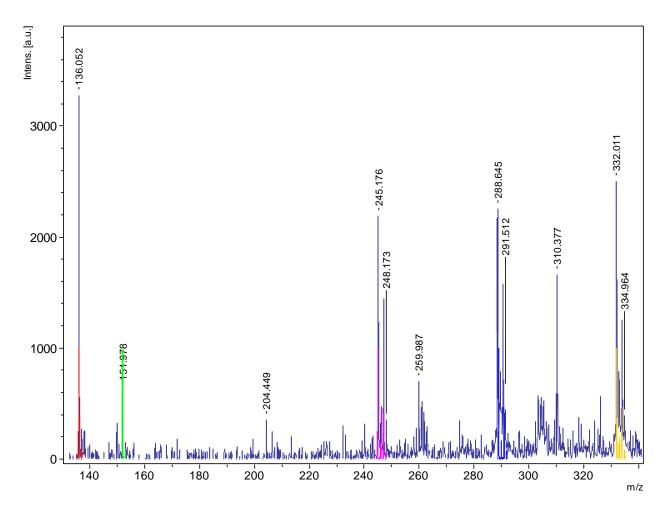
HR-MS of 3-methylphenyl 2-methylbenzoate 4



HR-MS of 2-methyl-6-{[(2-methylphenyl)carbonyl]oxy}benzoic acid 3



MALDI-TOF MS (-ve) of 2-methyl-6-{[(2-methylphenyl)carbonyl]oxy}benzoic acid 3



MALDI-TOF MS analysis (-ve) of the reaction mixture after the second DSC cycle on tetrakis(μ_2 -2-methylbenzoato)bis(2-methylbenzoic acid)copper(II) **5**