Supporting Information

Visible-light Induced di- and trifluoromethylation of N-methacryloyl benzamides with fluorinated sulfones for the synthesis of CF₂H/CF₃-containing isoquinolinediones

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**Figure 1** The ORTEP drawing of 3c (Thermal ellipsoids are set at 30% probability level)

**Figure 2** The ORTEP drawing of 3d (Thermal ellipsoids are set at 30% probability level)
$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 3a:
$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 3b:
$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 3c:
$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 3d:
$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 3e:
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$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 3g:
$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 3h:
$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 3i and 3i':

![NMR Spectra](image-url)
$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 3j:
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$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 5a:
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$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 5f:
$^{1}H\text{ NMR, } ^{13}C\text{ NMR and } ^{19}F\text{ NMR spectra of compound } 5g :$
$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 5h:
$^1$H NMR, $^{13}$C NMR and $^{19}$F NMR spectra of compound 5i: