Supplementary Material for Chemical Communications

Selenocatalytic α-Halogenation

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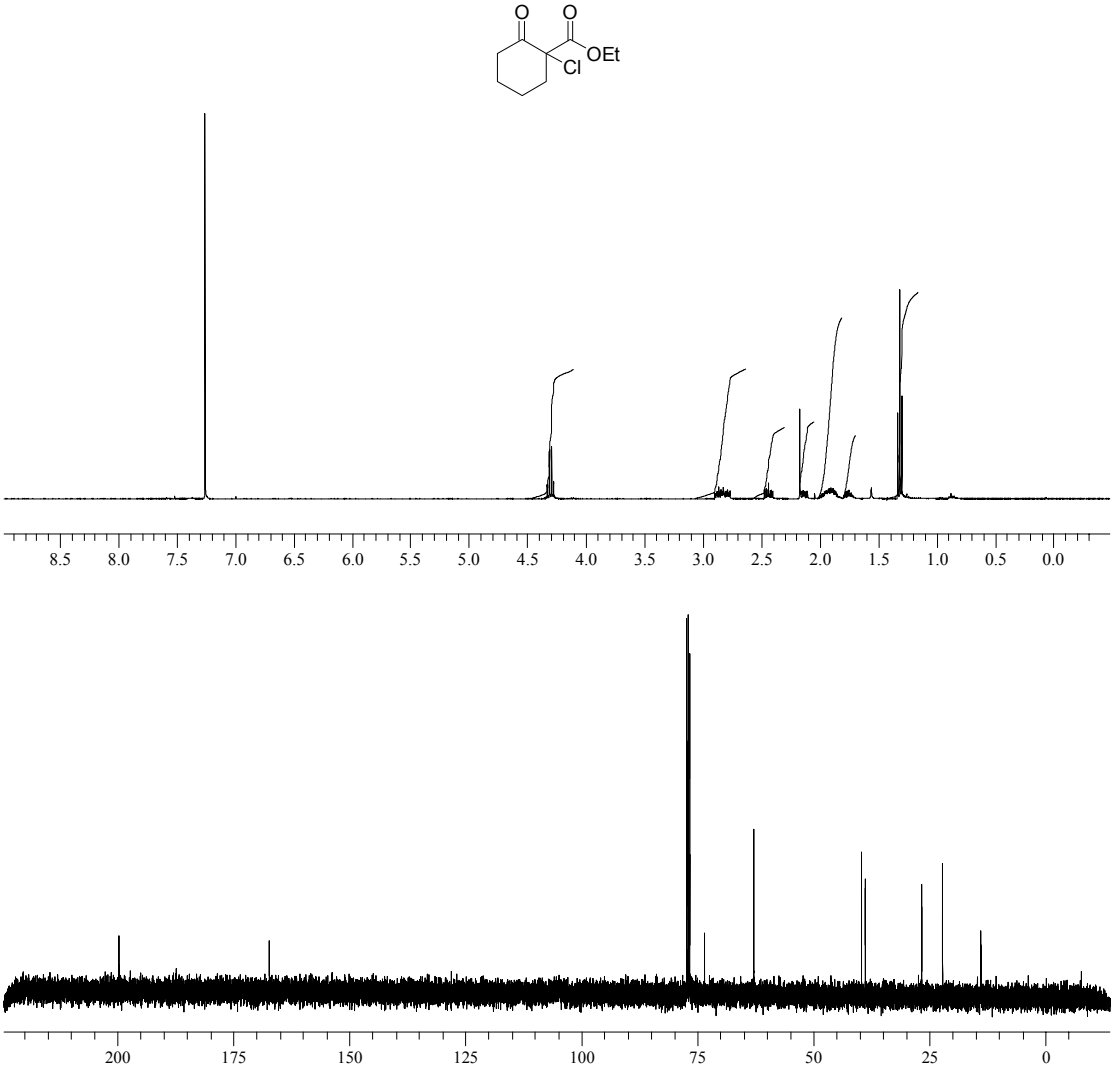
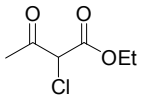
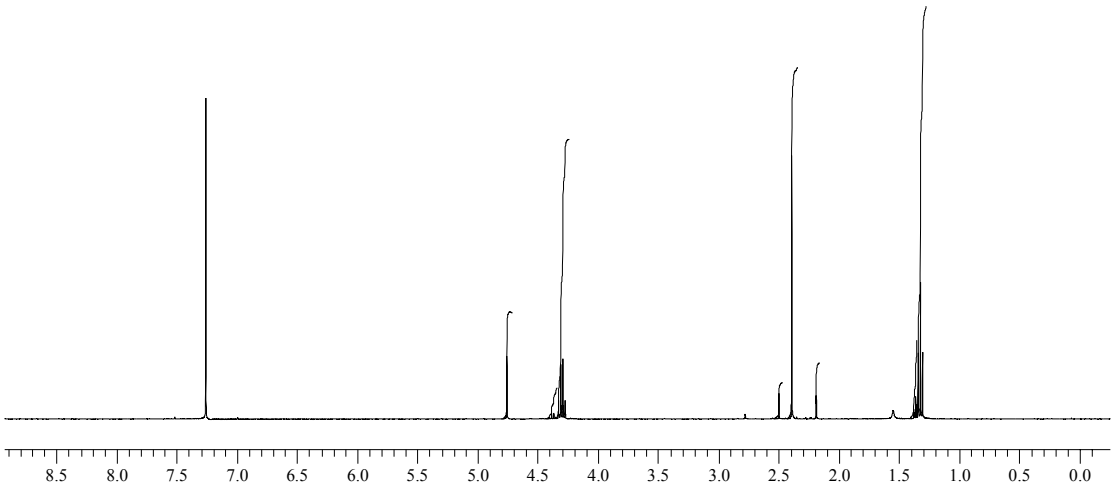
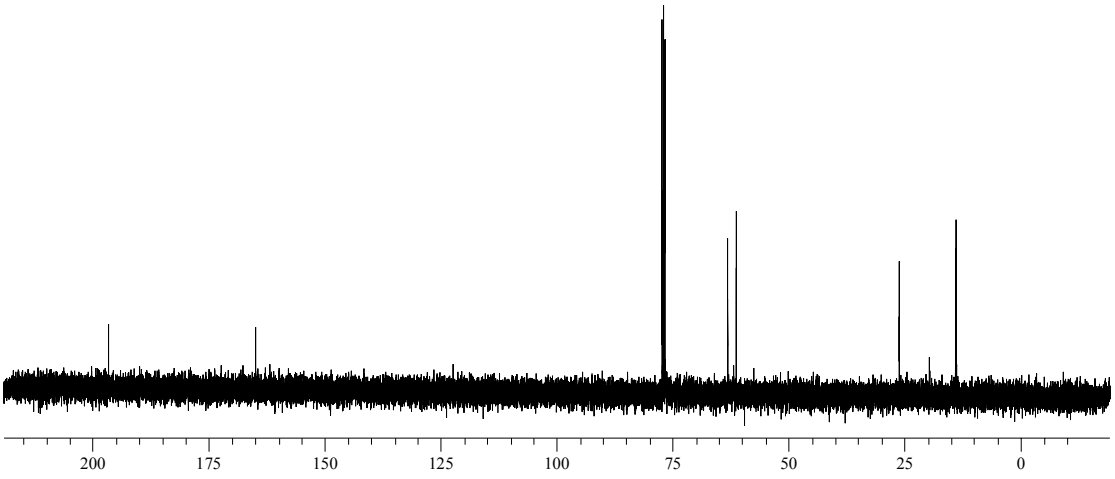
Supporting Information: ^{1}H and ^{13}C NMR spectra of all products.



3a:[1] oil: ^{1}H NMR (400 MHz, $CDCl_3$) δ 4.30 (q, J = 7.1 Hz, 2H: OCH_2), 2.83 (m, 2H: $ClCCH_2$), 2.45 (m, 1H: CH_2), 2.14 (m, 1H: CH_2), 2.01-1.82 (m, 3H: CH_2), 1.75(m, 1H: CH_2), 1.31(t, J = 7.1 Hz, 3H: CH_3); ^{13}C NMR (75 MHz, $CDCl_3$) δ 199.67 (C=O), 167.22 (OC=O), 73.47 (ClC), 66.82 (OCH_2), 39.60 ($C{=}OCH_2$), 38.82 (2.83) (CH_2), 26.67 (ambiguous CH_2), 22.14 (ambiguous CH_2), 13.87(CH_3).







3b:[1] oil: ^{1}H NMR (400 MHz, $CDCl_3$) δ 4.76 (s, 1H: ClCH), 4.30 (q, J = 7.1 Hz, 2H: OCH_2), 2.39 (s, 3H: CH_3C=O), 1.32 (t, J = 7.1 Hz, 3H: CH_3); ^{13}C NMR (75 MHz, $CDCl_3$) δ 199.61 (C=O), 164.92 (OC=O), 63.14 (ClC), 61.31 (OCH_2), 26.21 ($O{=}CCH_3$), 13.89 (CH_3).