Supporting Information

Phase-vanishing halolactonization of neat substrates

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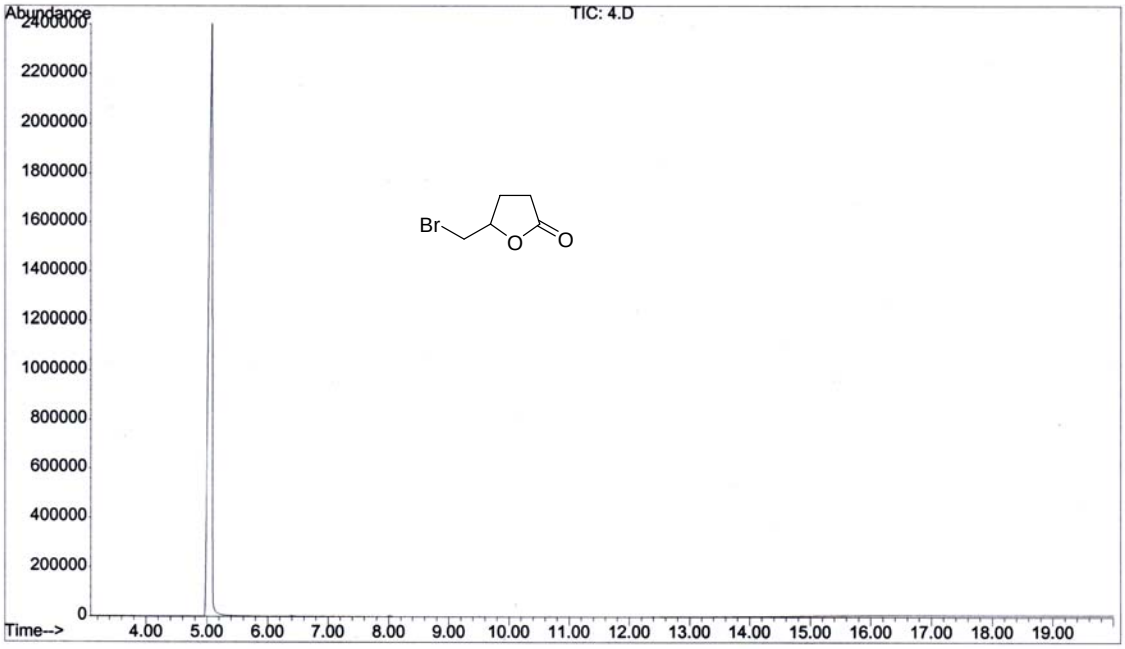
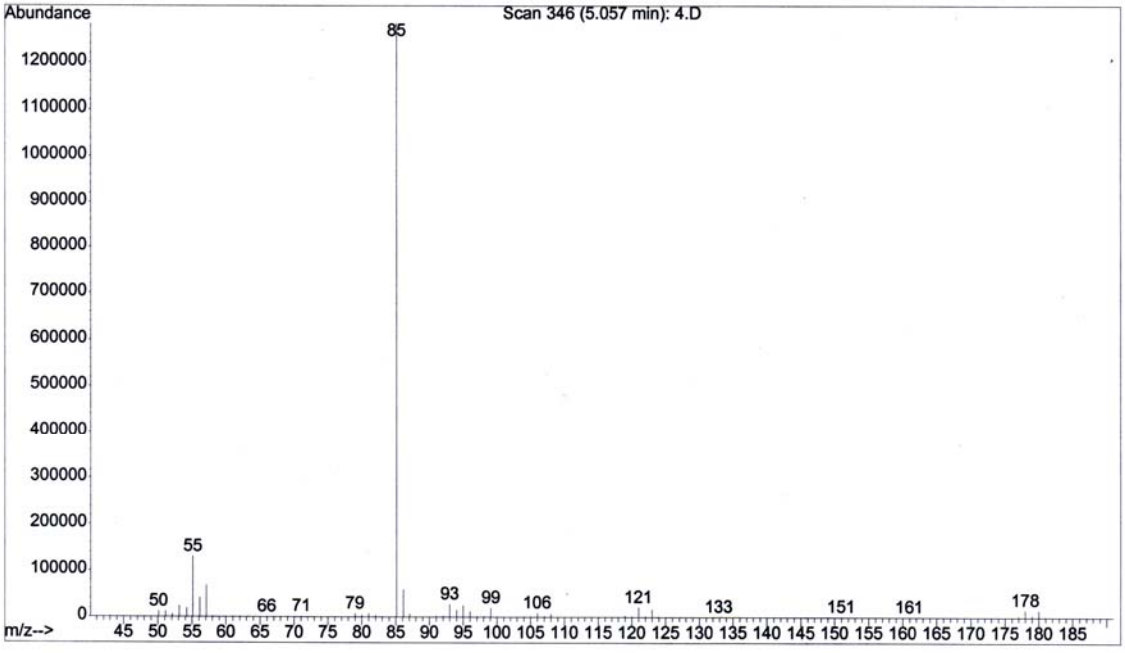
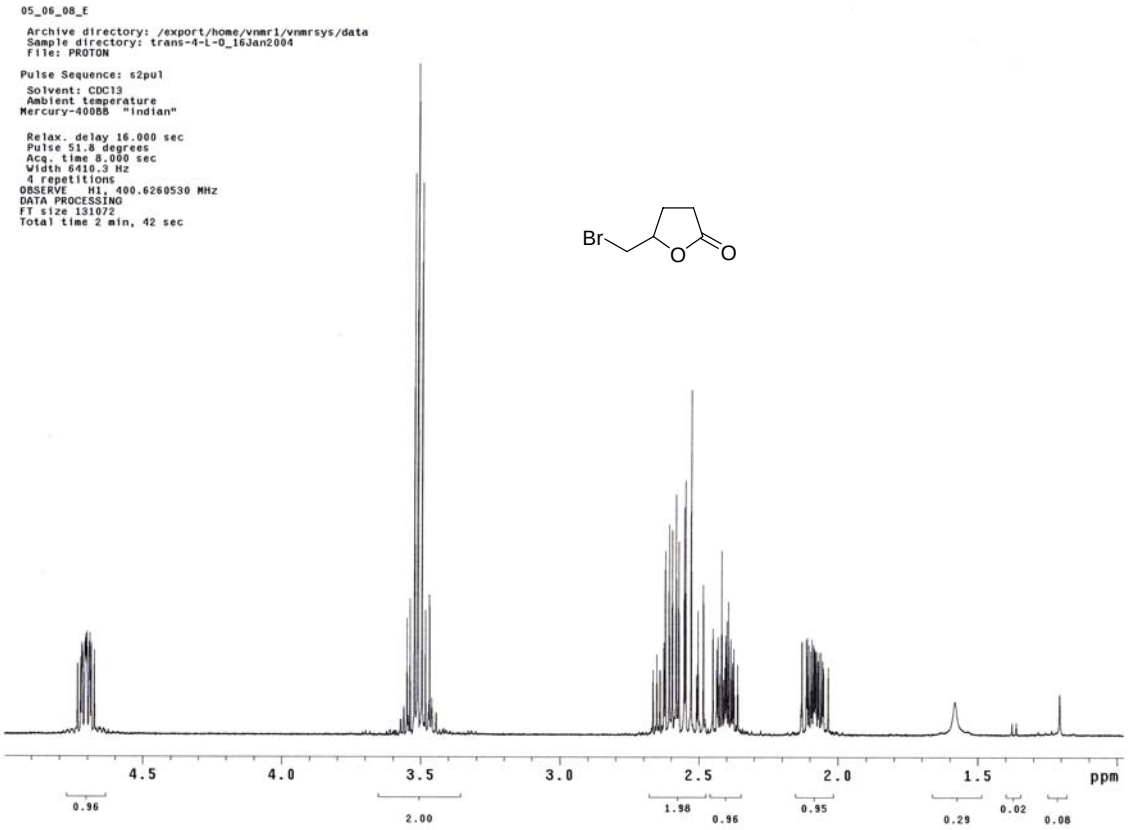
GC-MS spectra of the compounds **2**, **3**, **4**, **5**, **8**, **13**, **18**, **19**, **21**, **22** and ^{1}H NMR spectra of the compounds **2**, **4**, **5**, **8**, **13**, **18**, **19**, **21**, **22**.

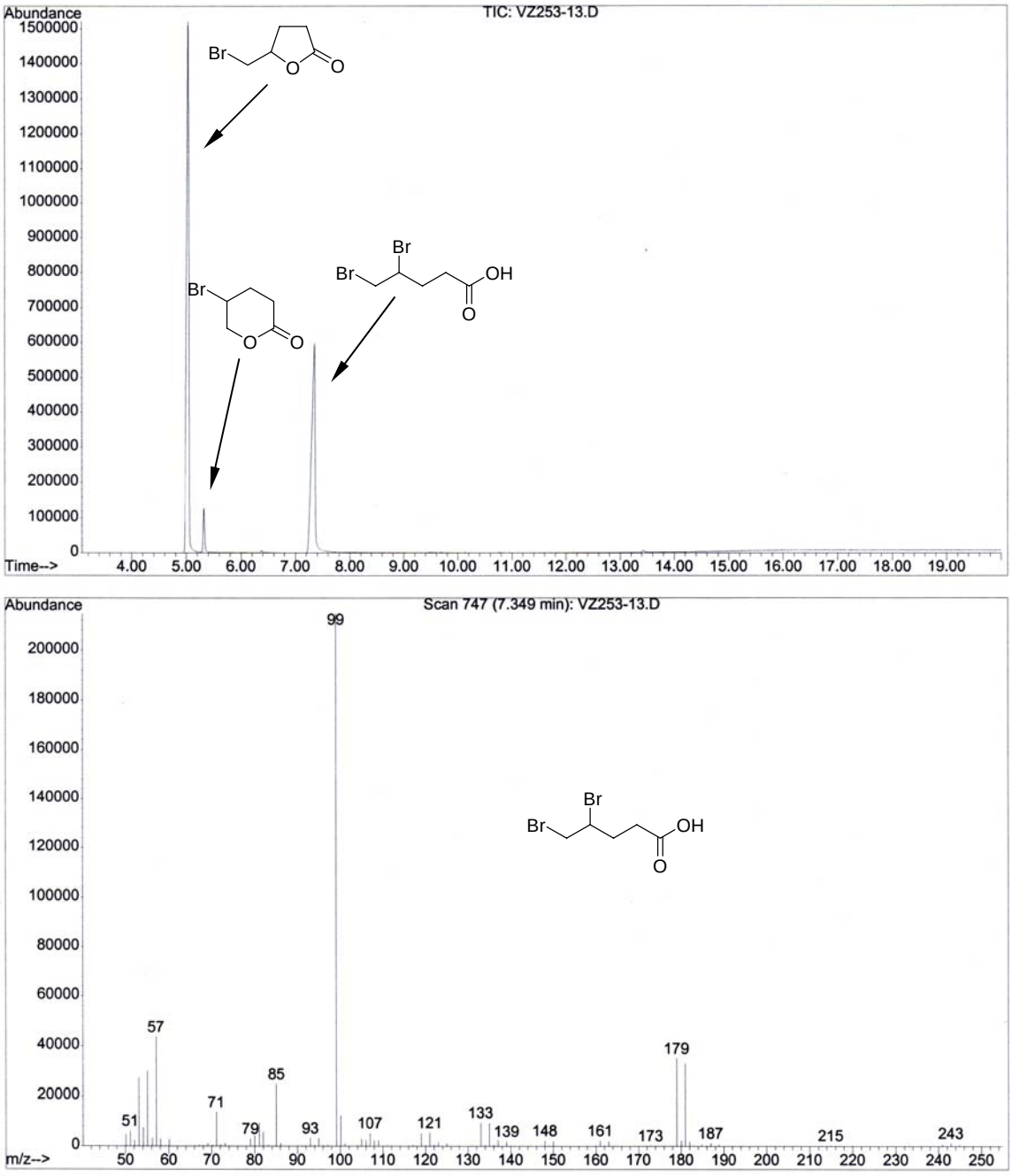




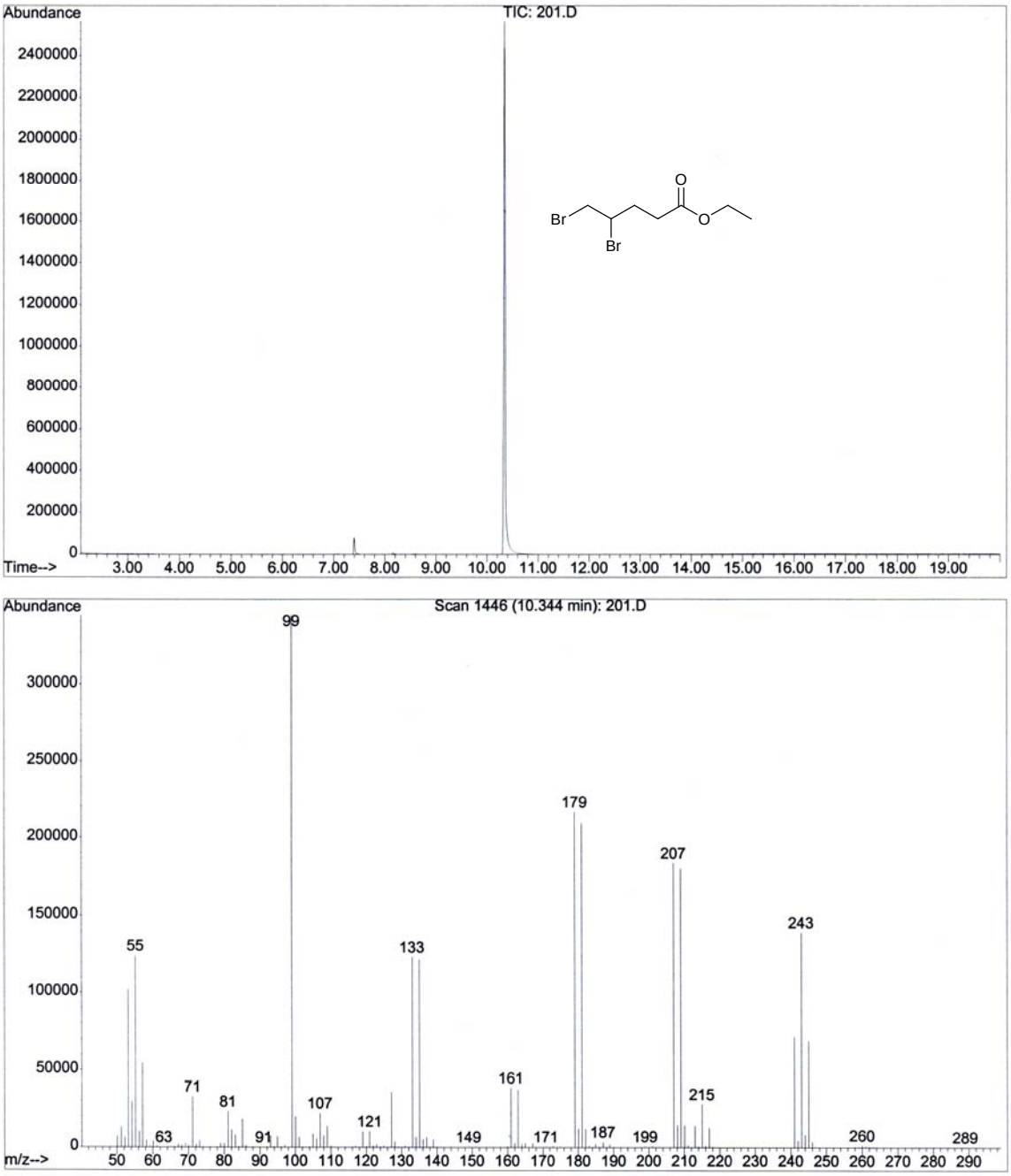
GC-MS of 5-(bromomethyl)-dihydrofuran-2(3*H*)-one (**2**).



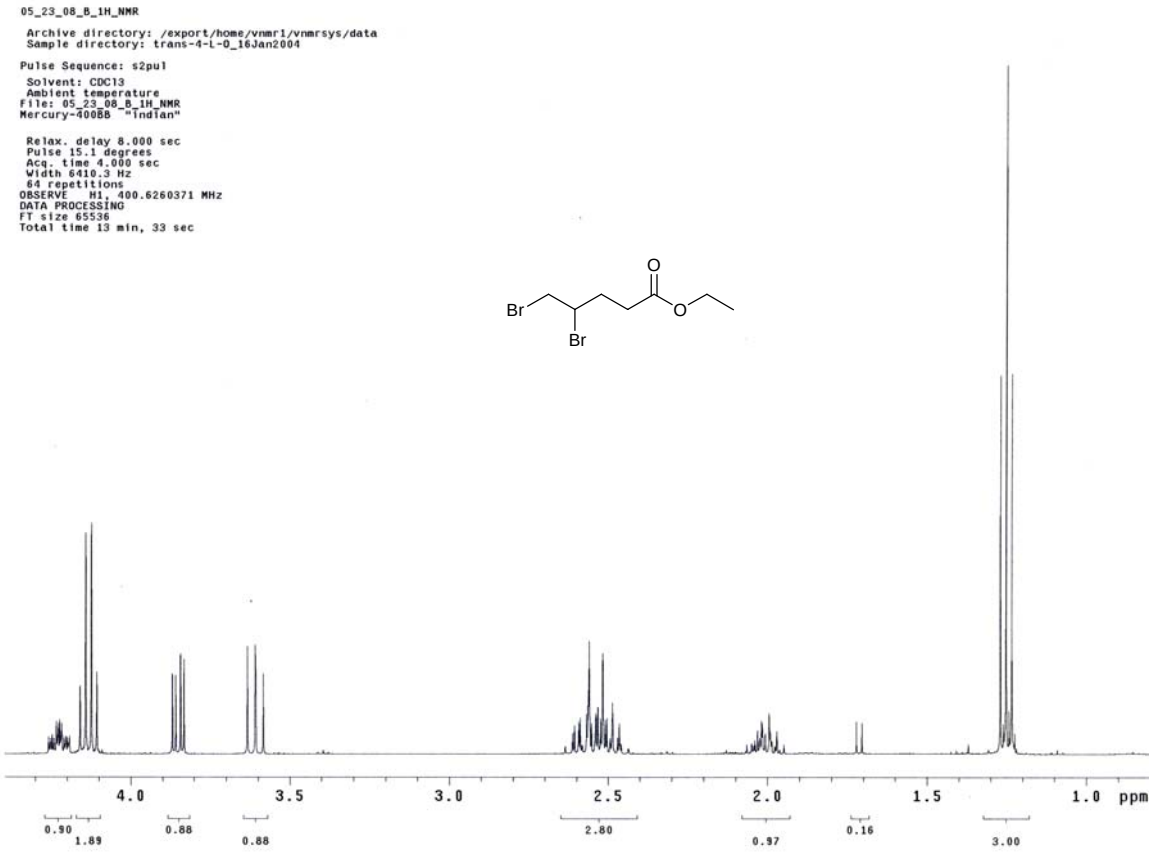
^{1}H NMR of 5-(bromomethyl)-dihydrofuran-2(3*H*)-one (**2**).



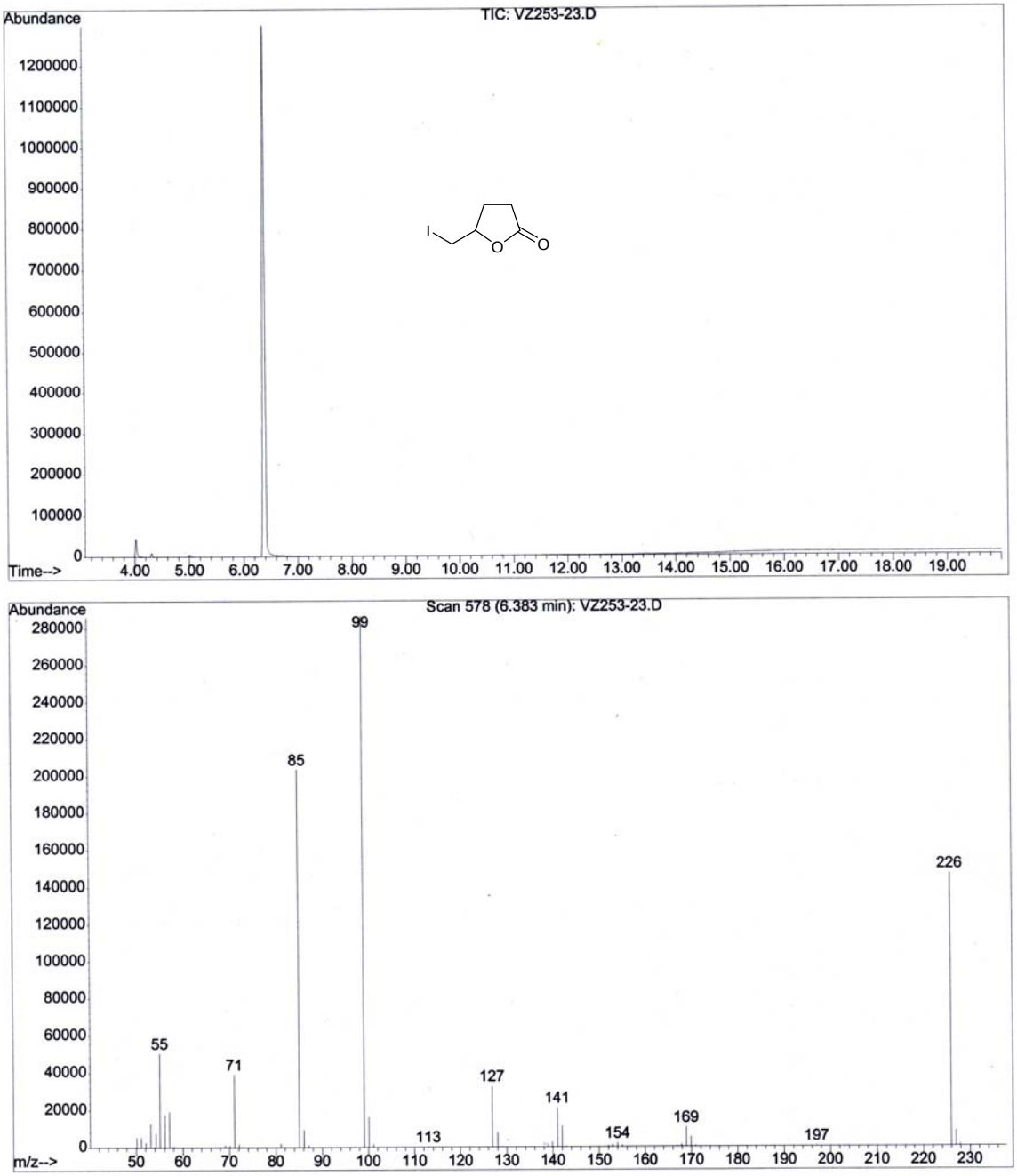
GC-MS of solvent-free reaction of bromine with 4-pentenoic acid. The reaction mixture contains 4,5-dibromopentanoic acid (**3**).



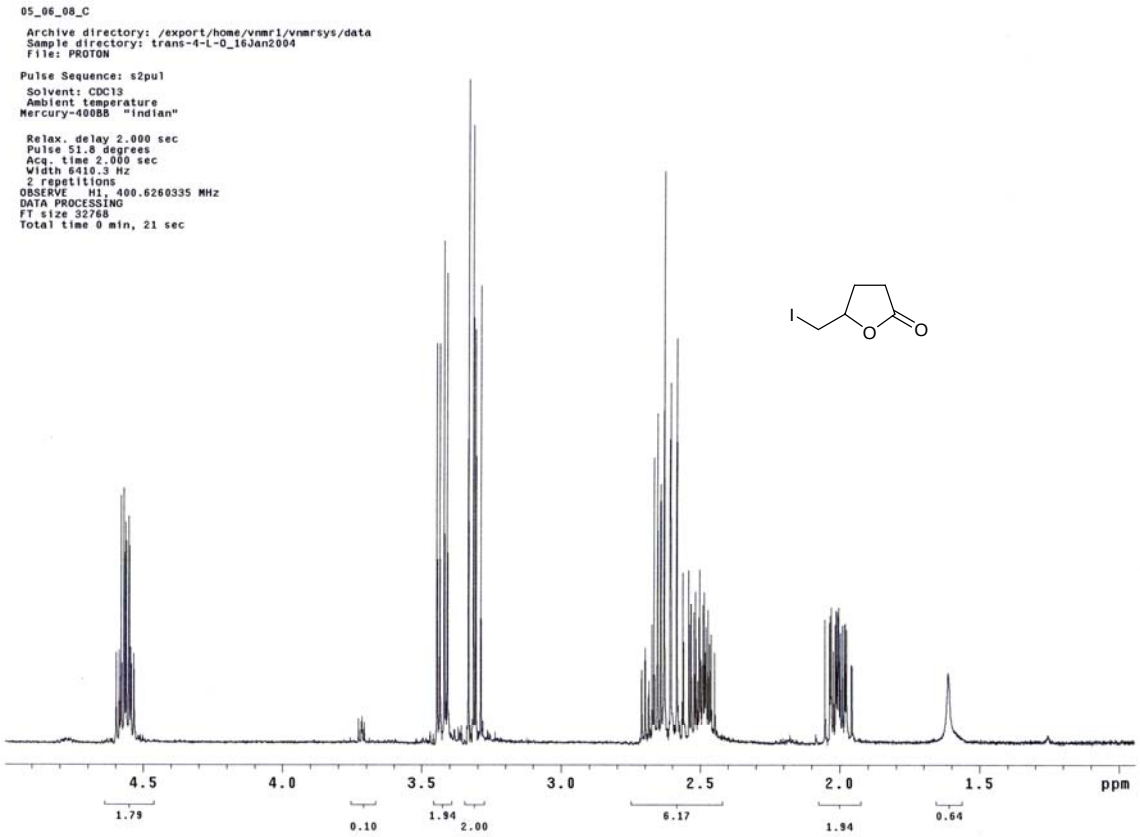
GC-MS of ethyl 4,5-dibromopentanoate (**4**).



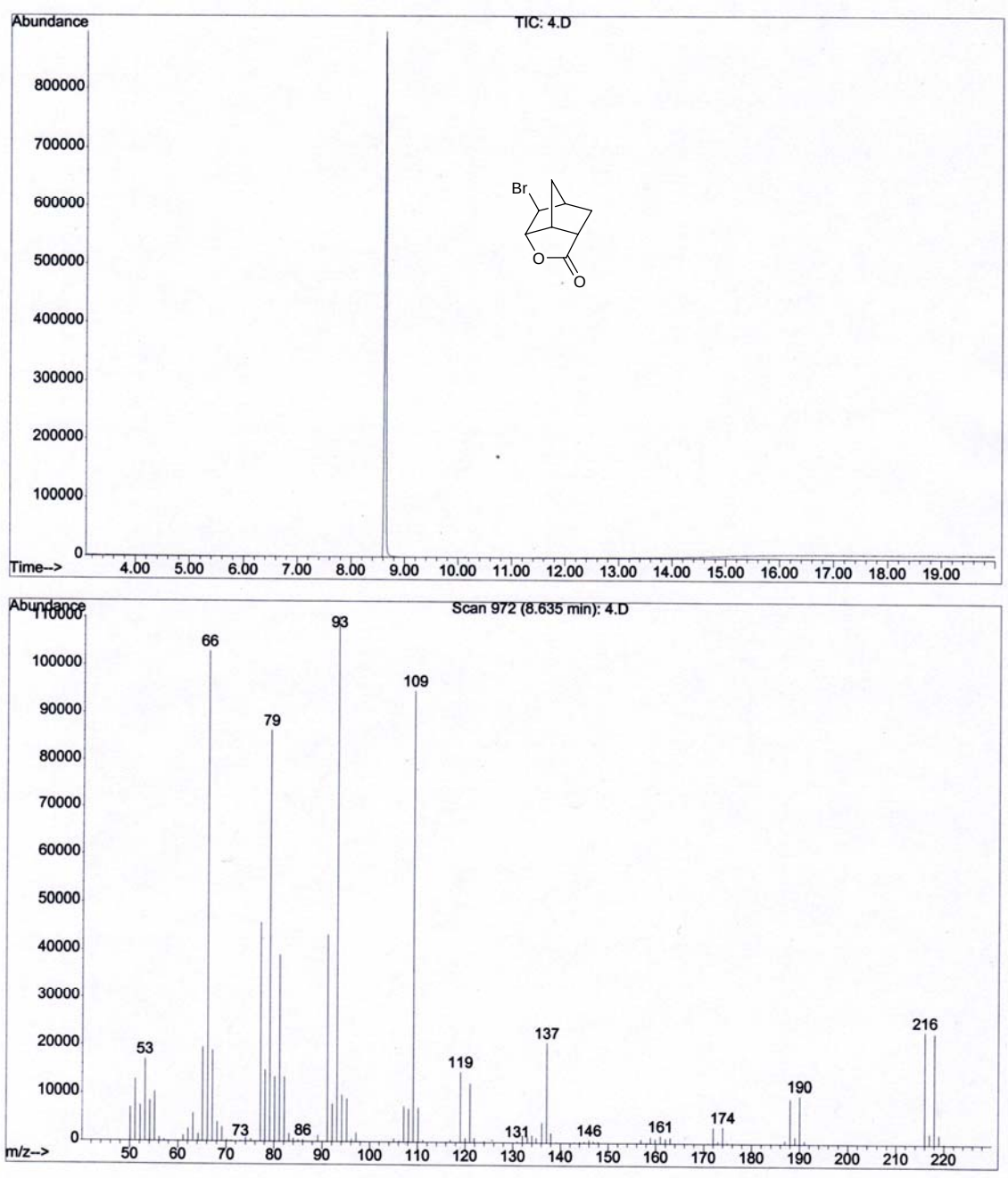
^{1}H NMR of ethyl 4,5-dibromopentanoate (**4**).



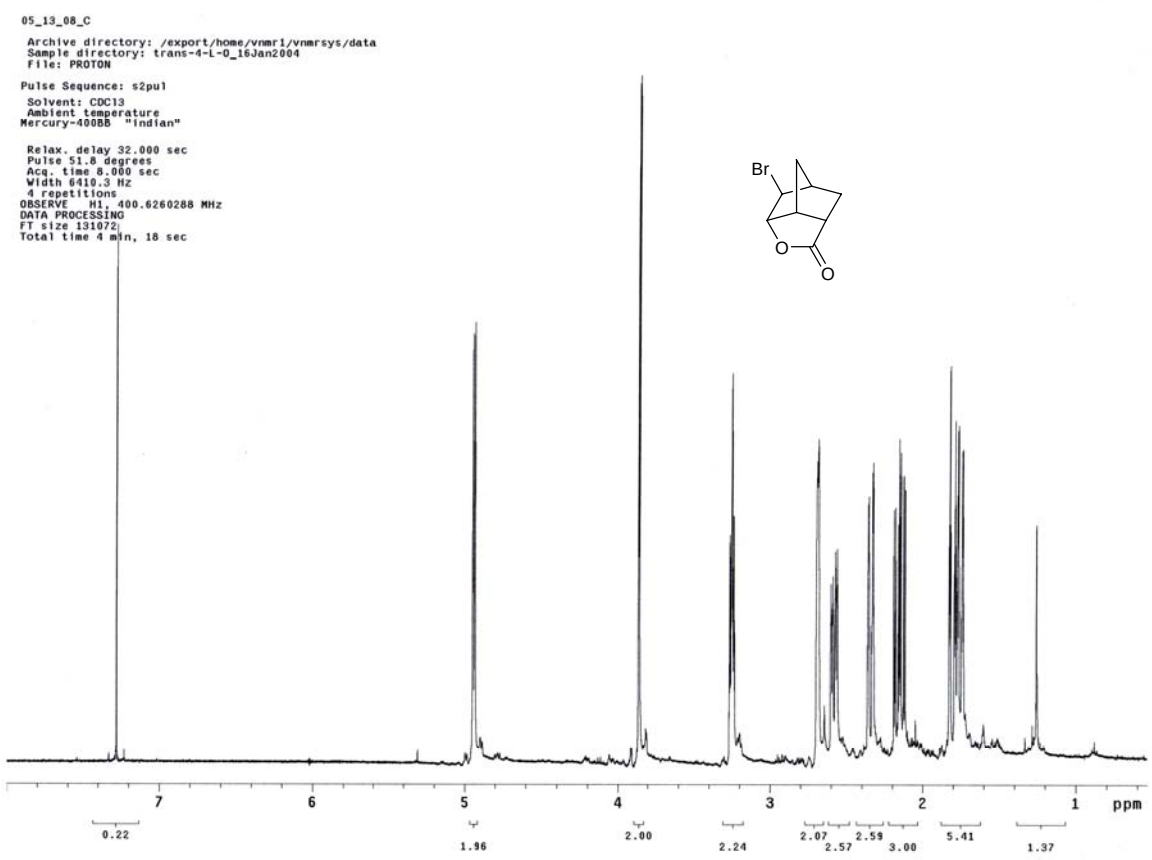
GC-MS of 5-(iodomethyl)-dihydrofuran-2(3*H*)-one (**5**).



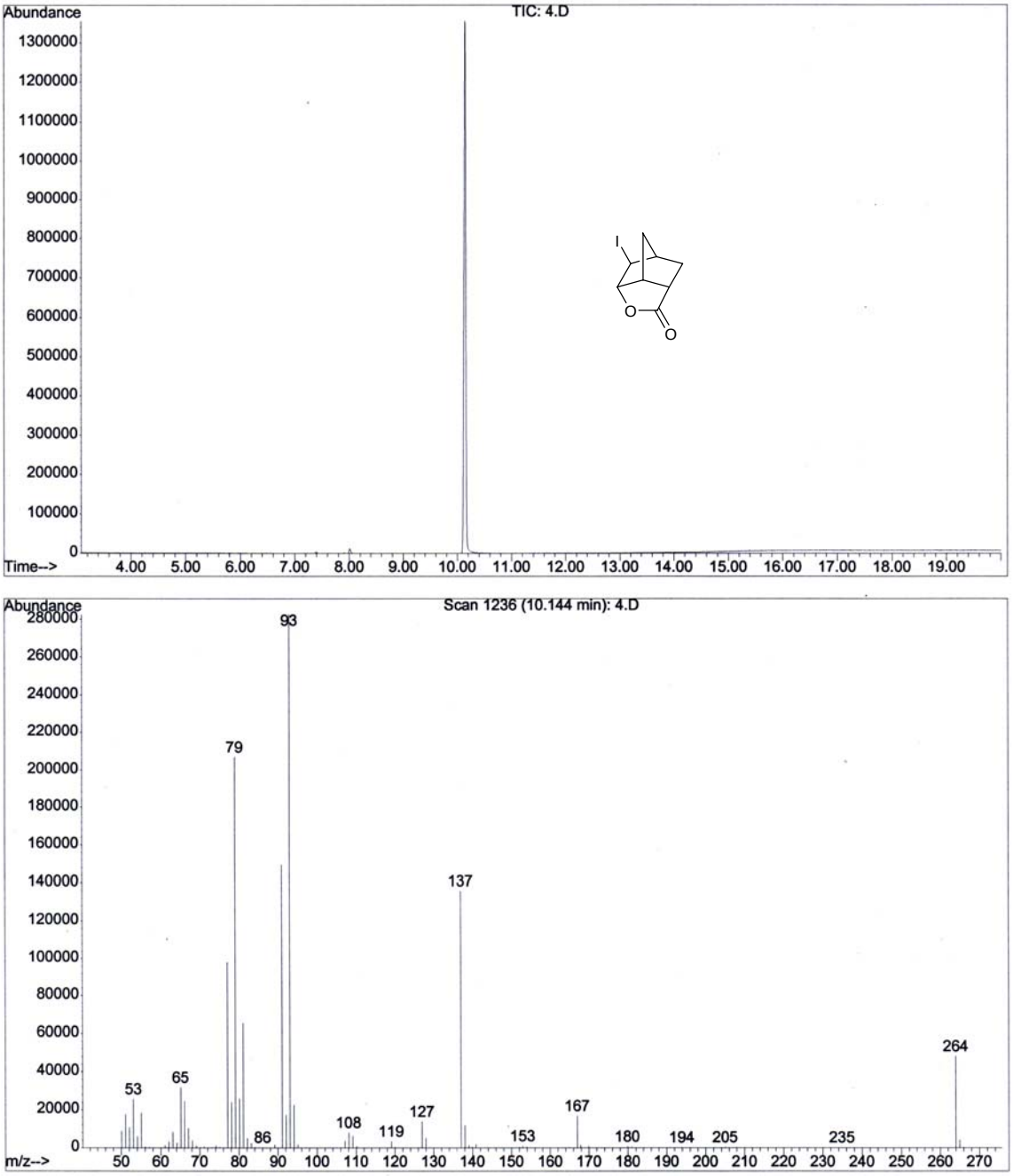
^{1}H NMR of 5-(iodomethyl)-dihydrofuran-2(3*H*)-one (**5**).



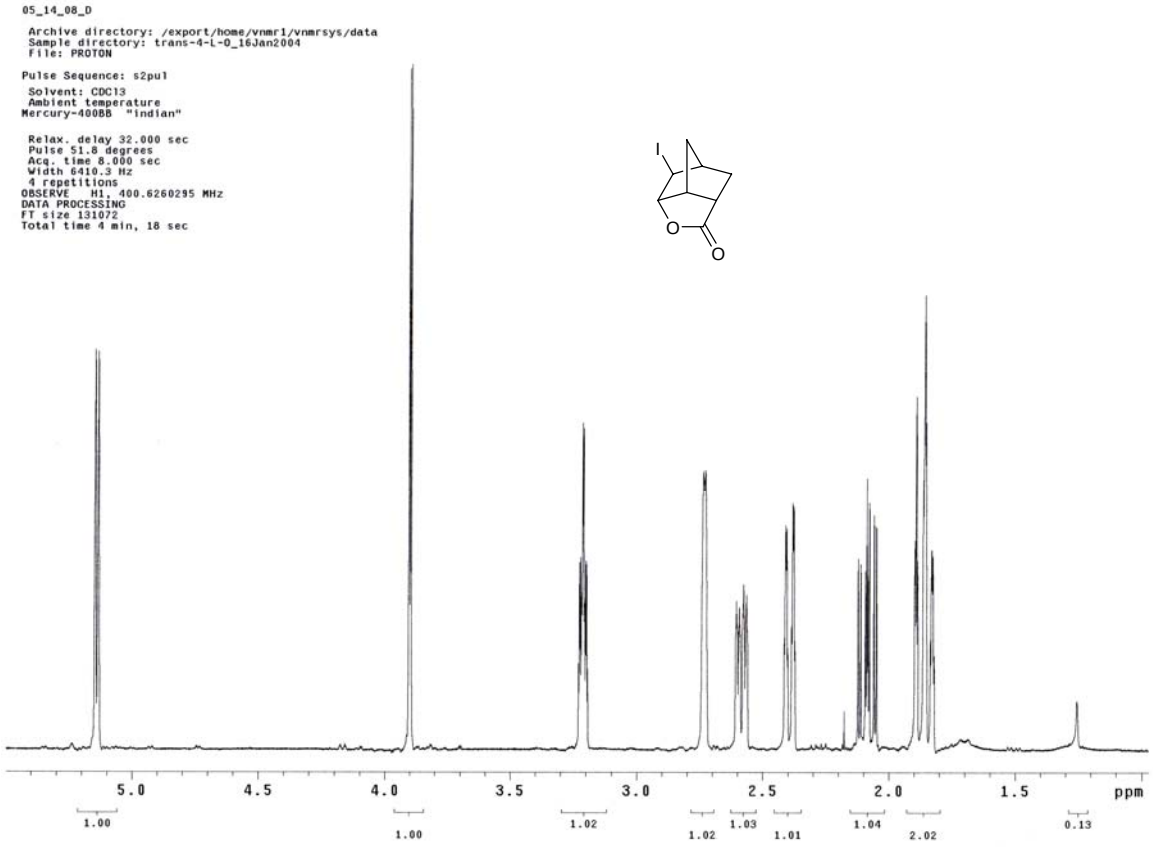
GC-MS of bromolactone **8**.



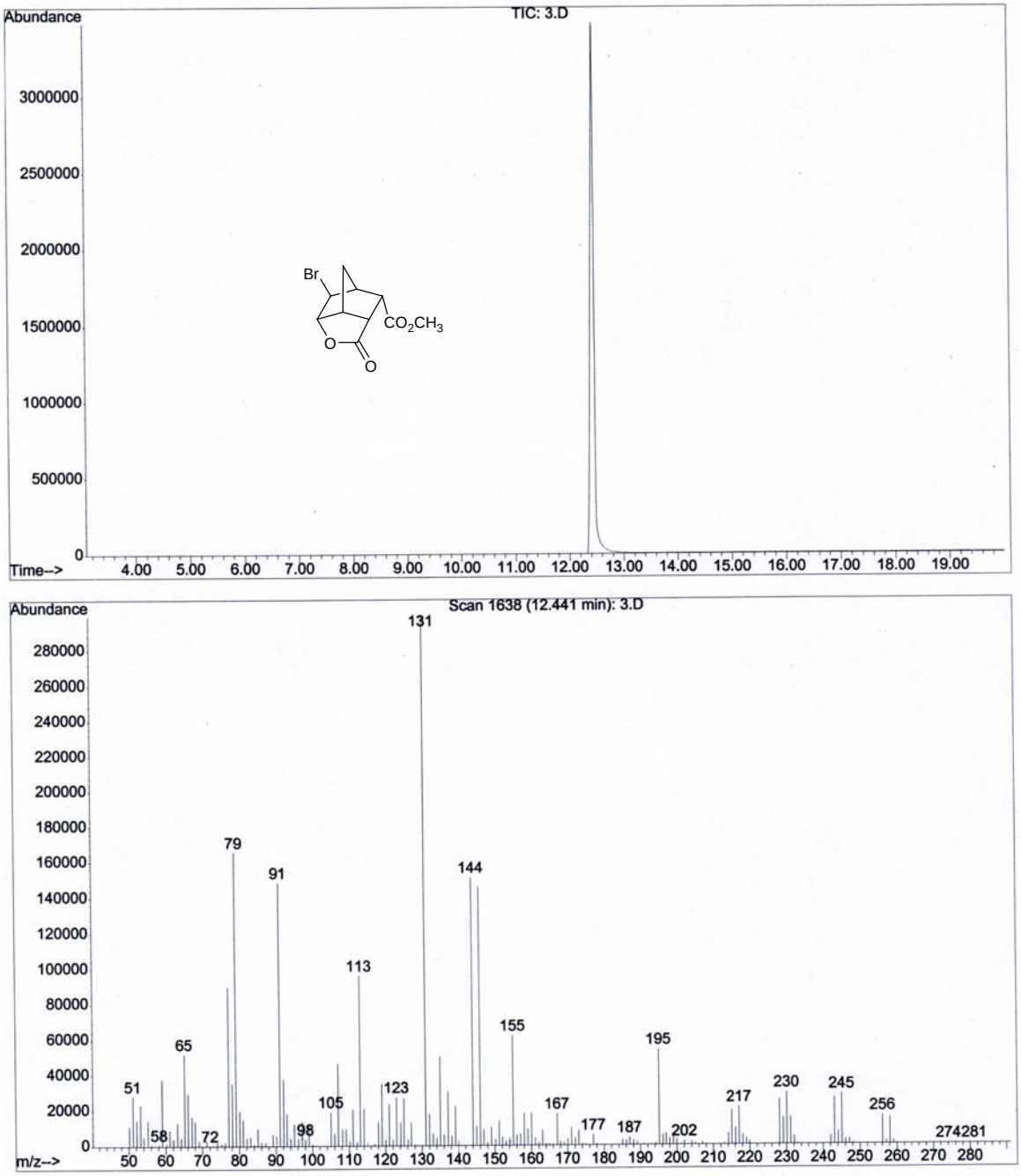
^{1}H NMR of bromolactone **8**.



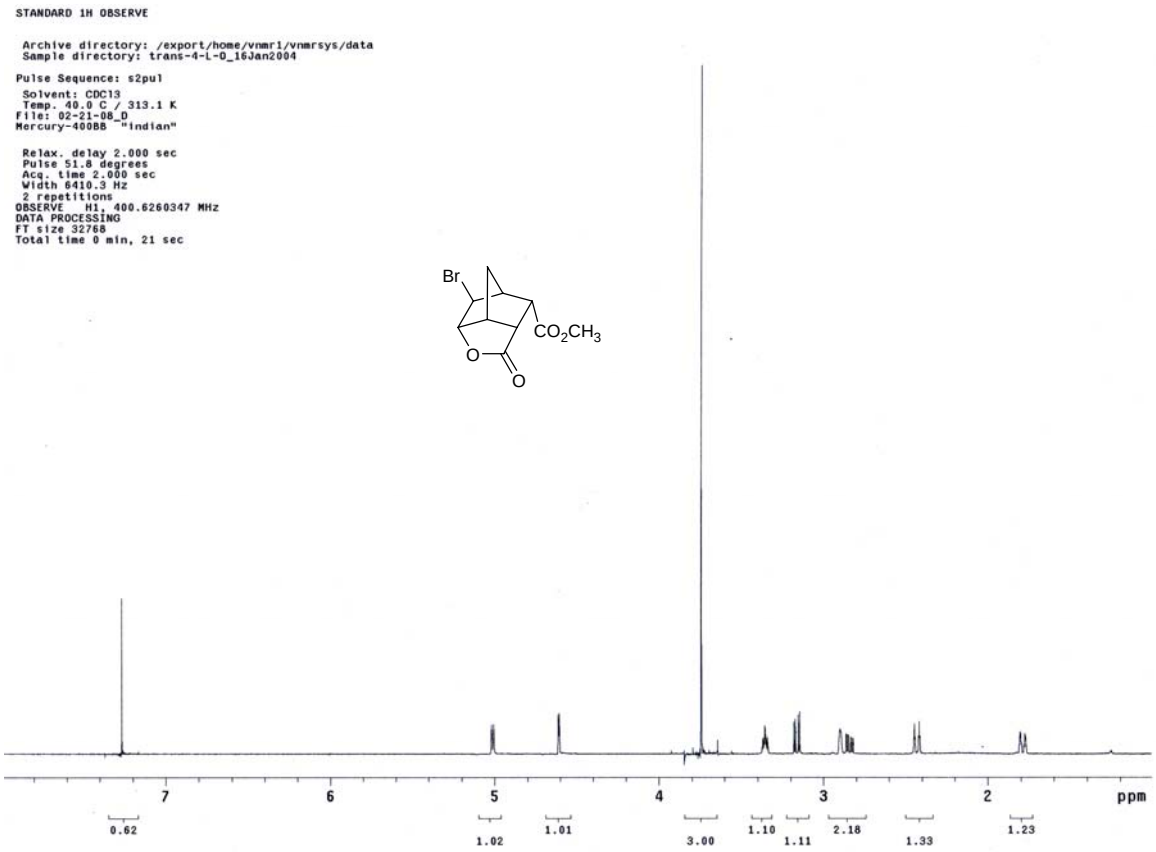
GC-MS of iodolactone **13**.



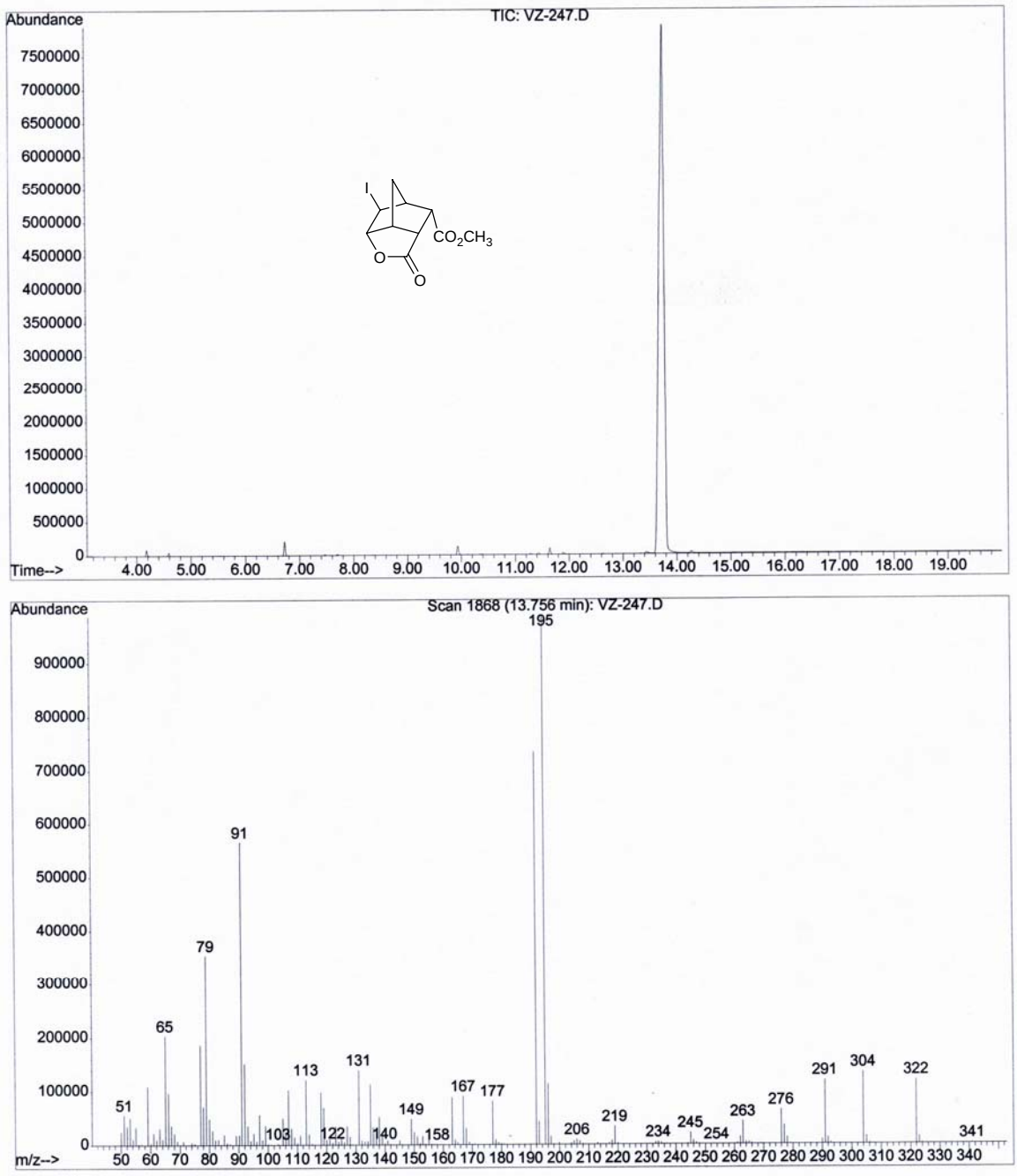
^{1}H NMR of iodolactone **13**.



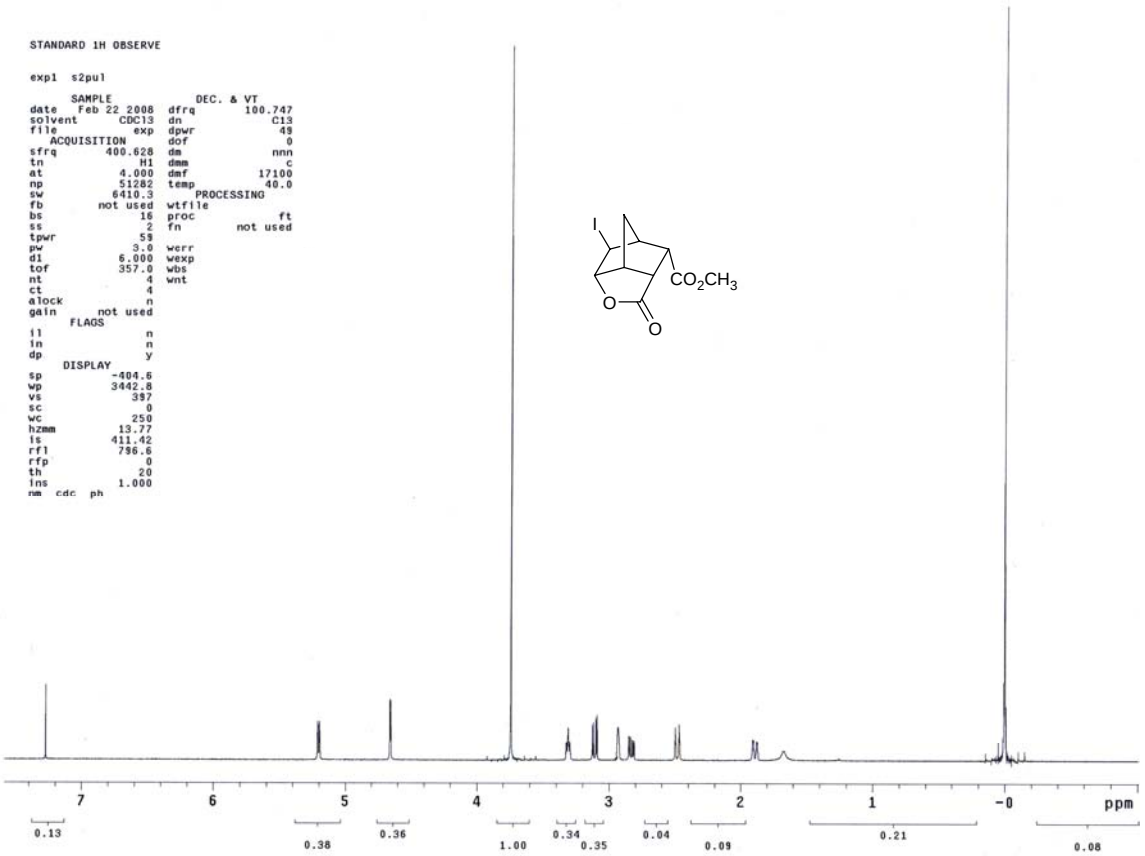
GC-MS of bromolactone ester **18**.



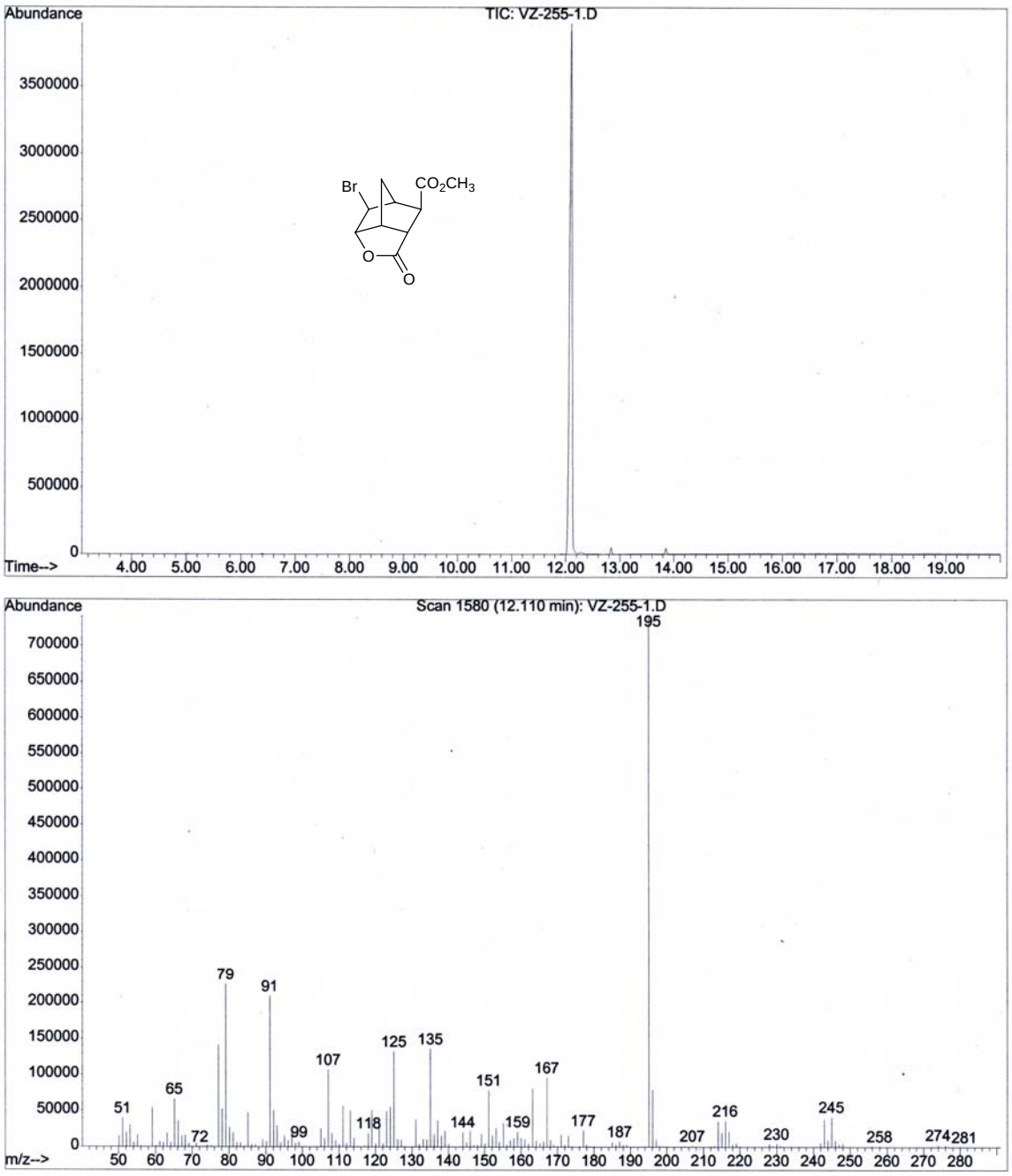
^{1}H NMR of bromolactone ester **18**.



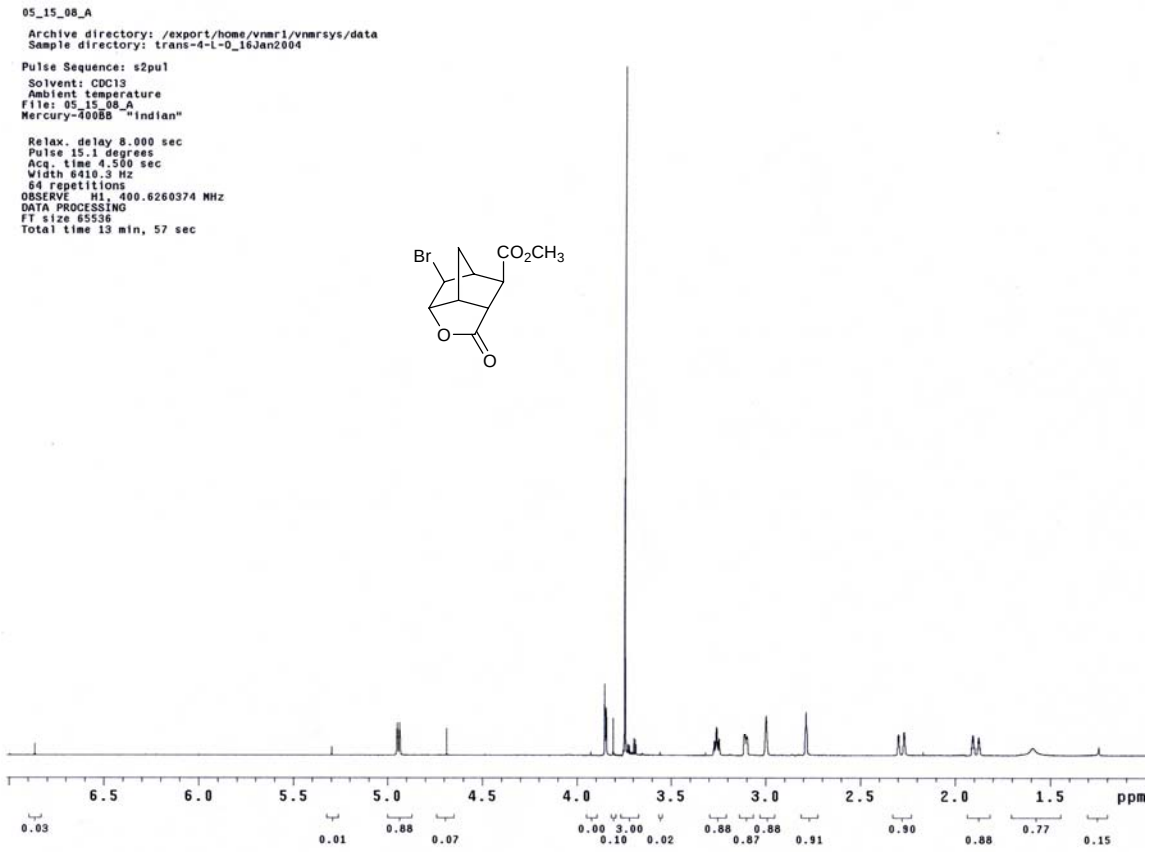
GC-MS of iodolactone ester **19**.



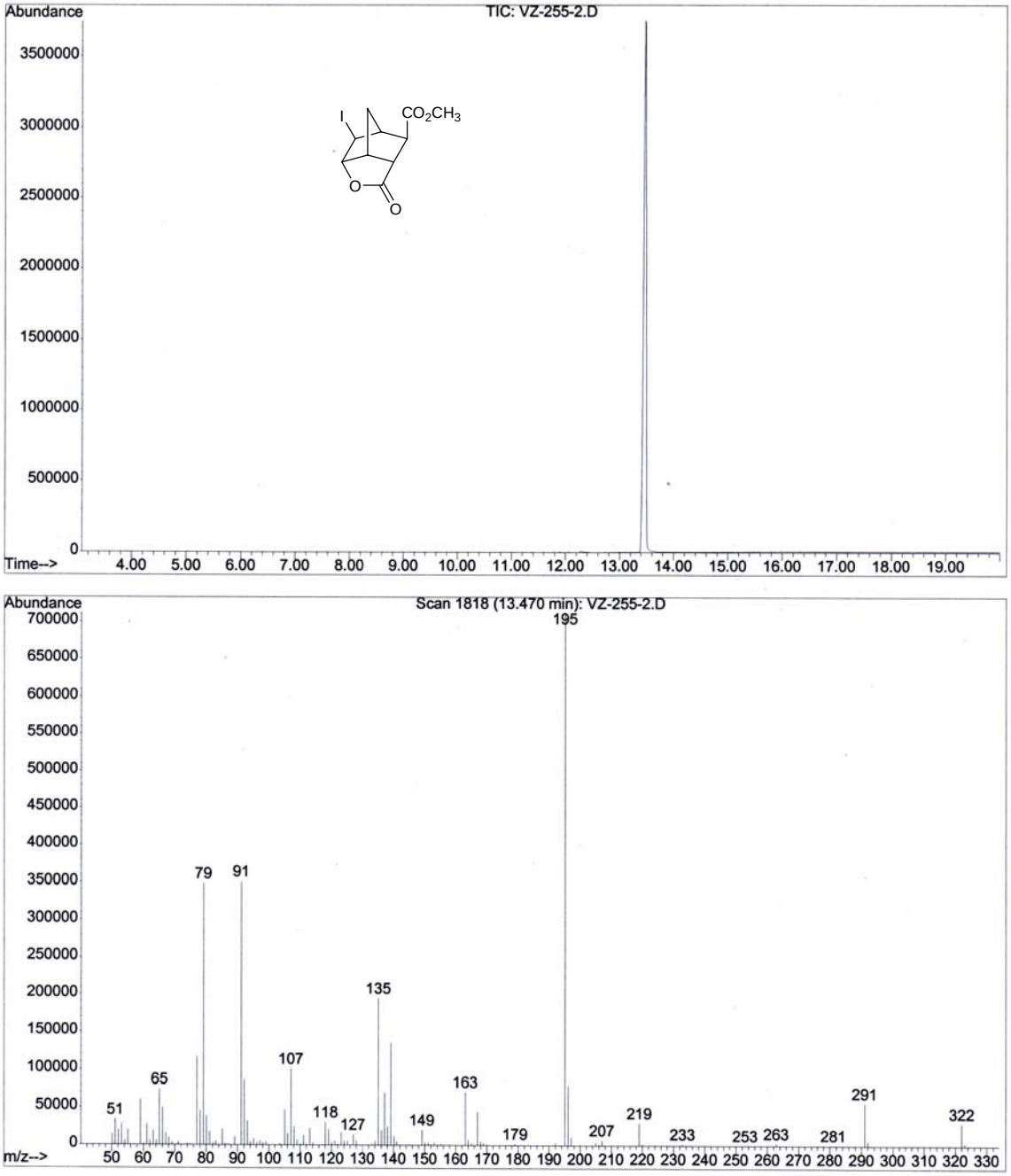
^{1}H NMR of iodolactone ester **19**.



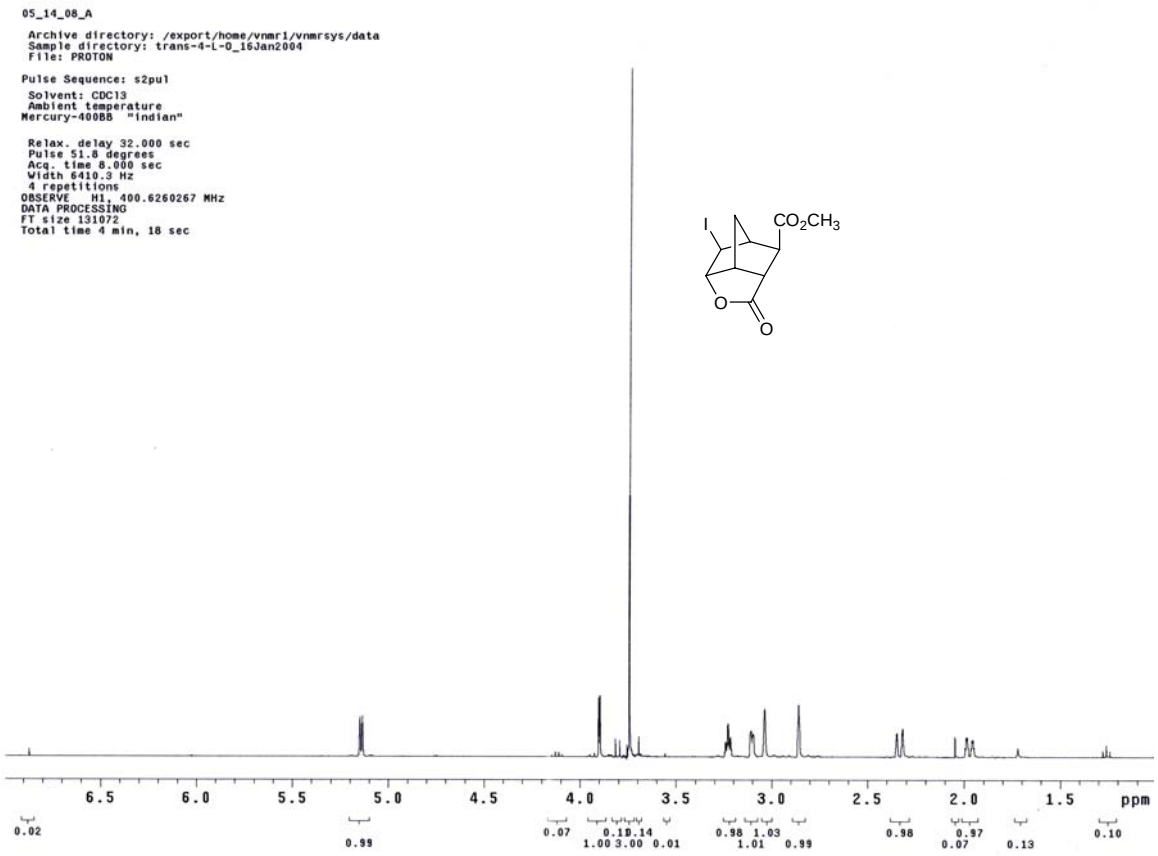
GC-MS of bromolactone ester **21**.



^{1}H NMR of bromolactone ester **21**.



GC-MS of iodolactone ester **22**.



^{1}H NMR of iodolactone ester **22**.