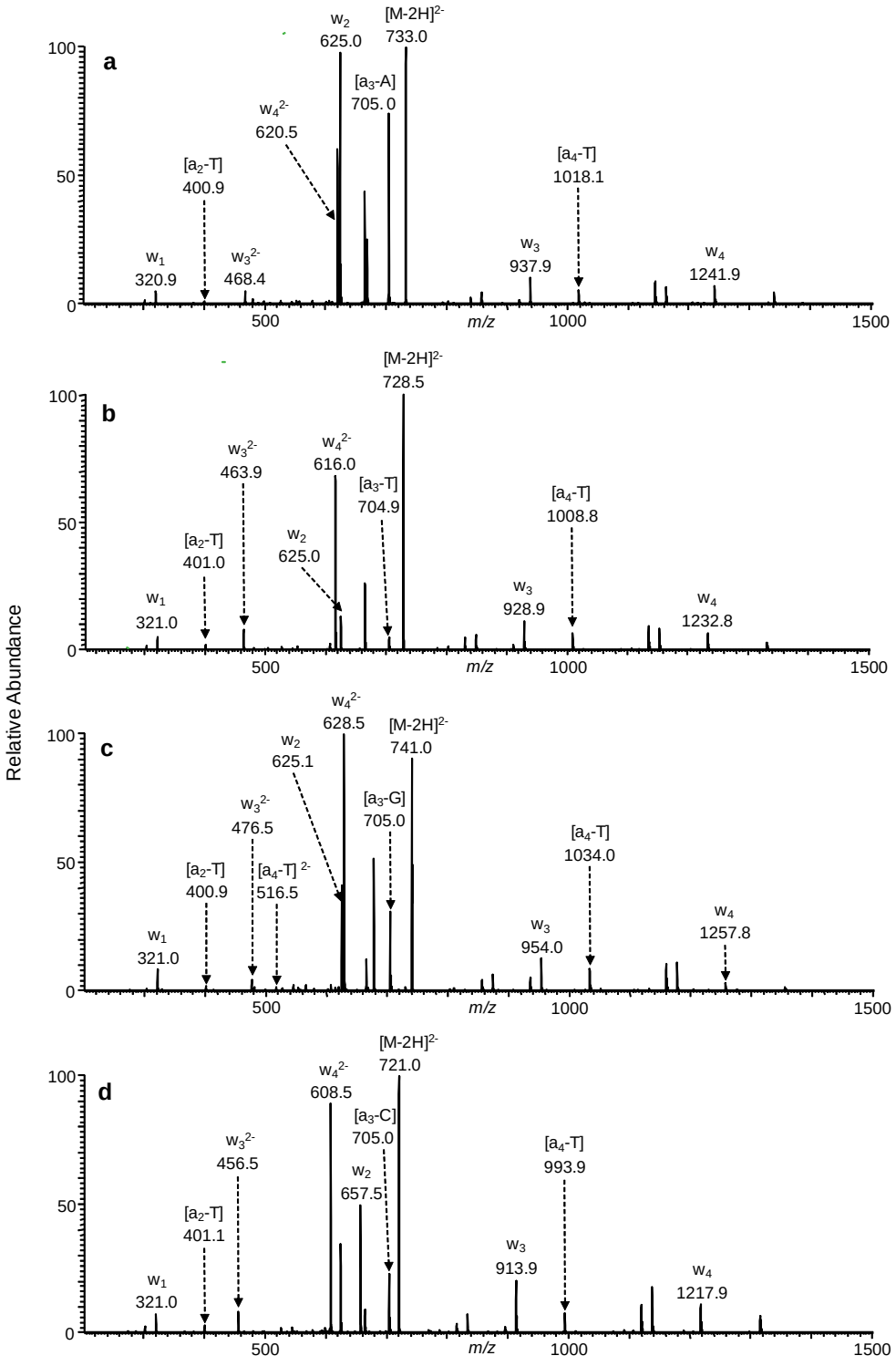

Figure S1. The product-ion spectra of the ESI-produced $[M-2H]^{2-}$ ions of d(TTNTT). (a) 'N' = A, (b) 'N' = T, (c) 'N' = G, (d) 'N' = C. The spectra were acquired at a normalized collision energy of 23%.

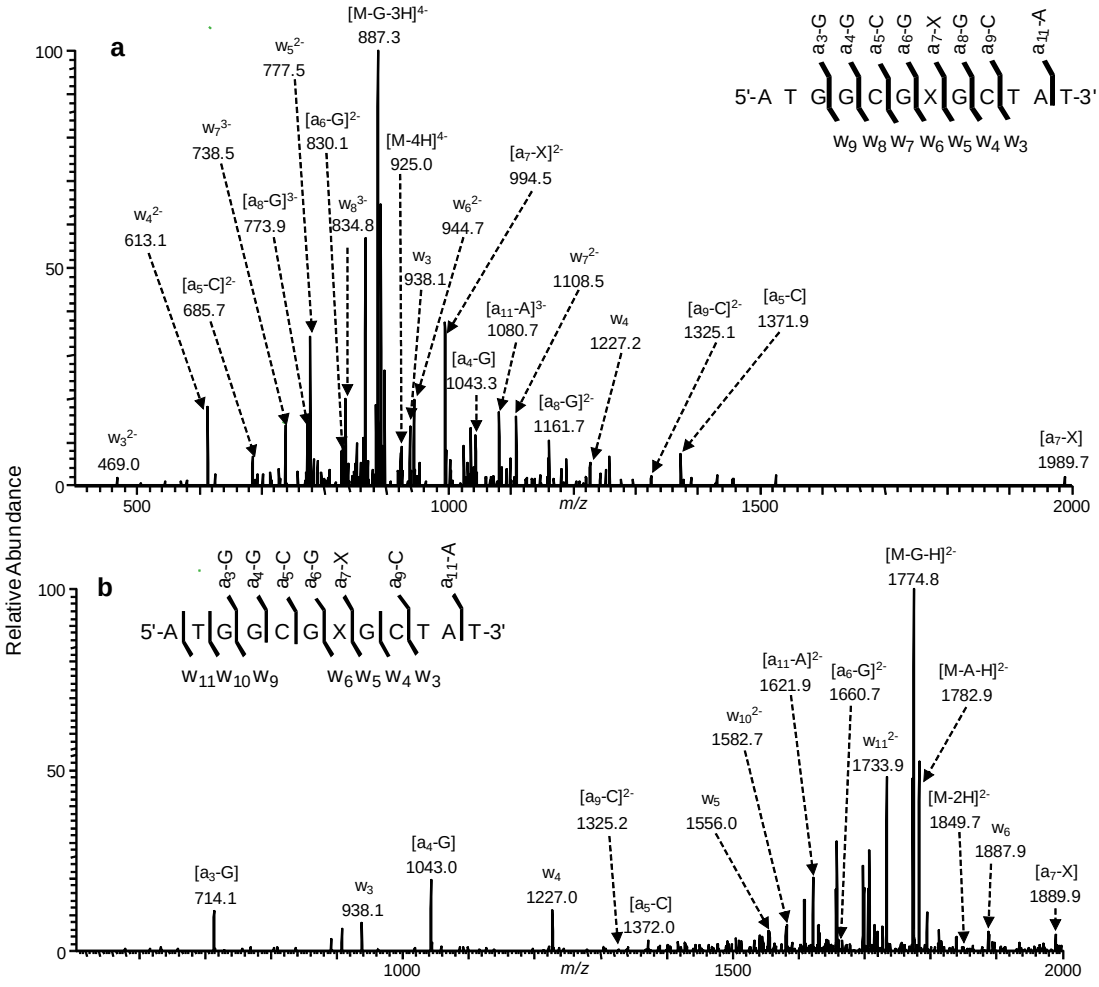

Figure S2. The product-ion spectra of the ESI-produced $[M-2H]^{2-}$ (a) and $[M-4H]^{4-}$ (b) ions of d(ATGGCGXGCTAT), where 'X' is O^2-EtdT.

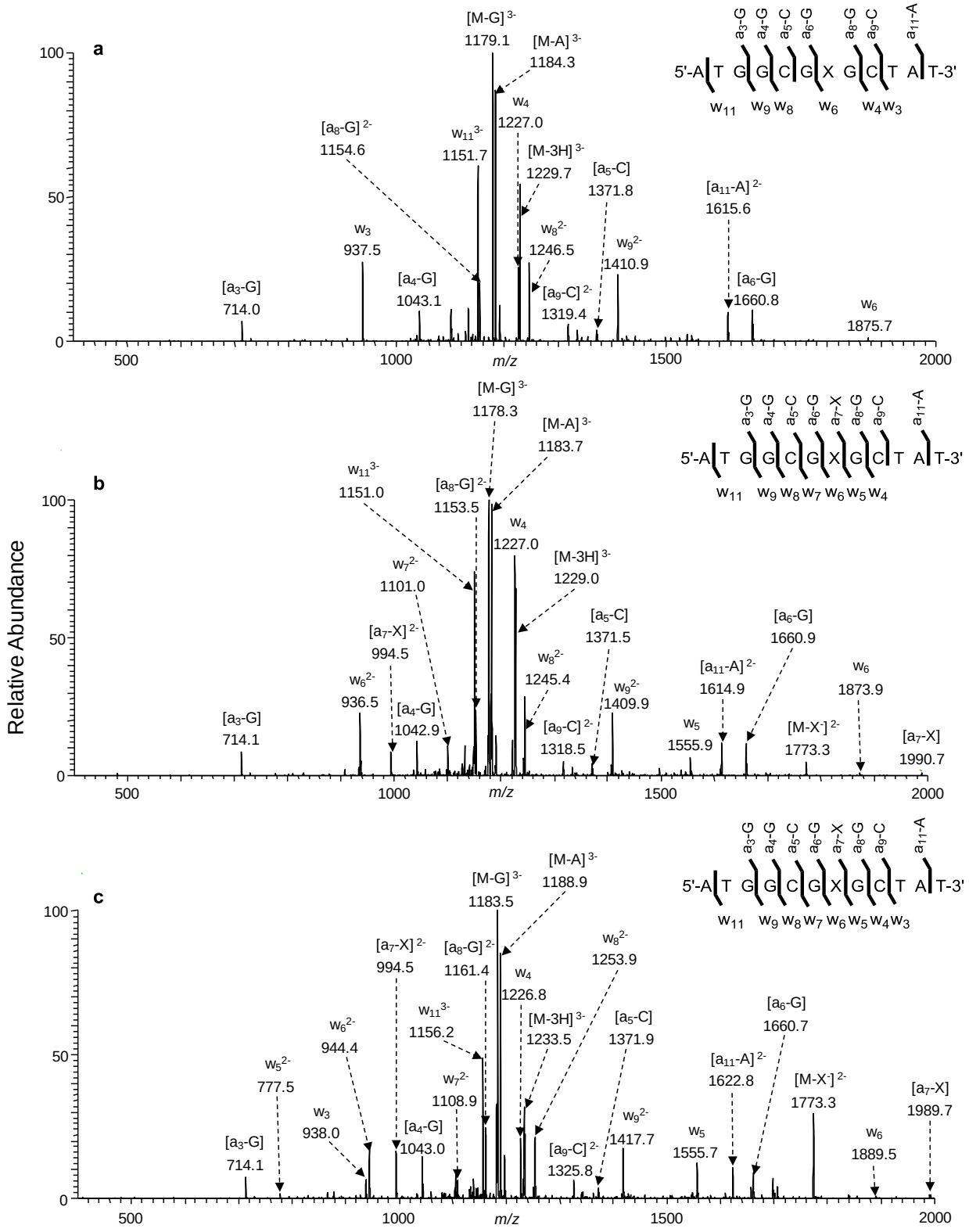

Figure S3. The product-ion spectra of the ESI-produced $[M-3H]^{3-}$ ions of d(ATGGCGXGCTAT), (a) X = hmdU, (b) X = fmdU, and (c) X = cadU. The spectra were acquired at a normalized collision energy of 16%.