Supplementary Material (ESI) for Analyst

Supporting Information

Screening of Agrochemicals in Foodstuffs and Water using Low Temperature Plasma (LTP) Ambient Mass Spectrometry

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Abstract: Additional information is provided including LTP-MS/MS spectra of agrochemicals in neat solvent as well as in spiked water samples.

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TABLES AND FIGURES SECTION (supporting information)

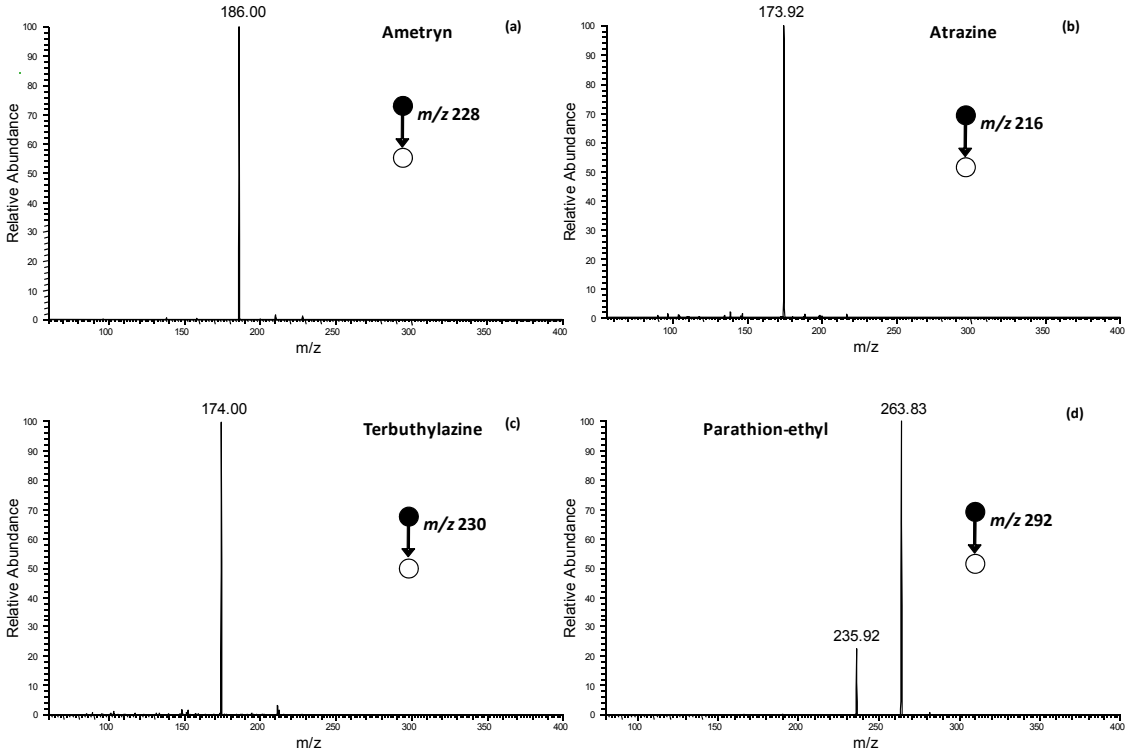

Fig. S1 Four MS/MS spectra of representative agrochemicals examined in this study. (a) MS/MS spectrum $[M+H]^+$ (*m/z* 228) of ametryn. (b) MS/MS spectrum $[M+H]^+$ *(m/z* 216) of atrazine. (c) MS/MS spectrum $[M+H]^+$ (*m/z* 230) of terbuthylazine. (d) MS/MS spectrum $[M+H]^+$ (*m/z* 292) of parathion-ethyl.

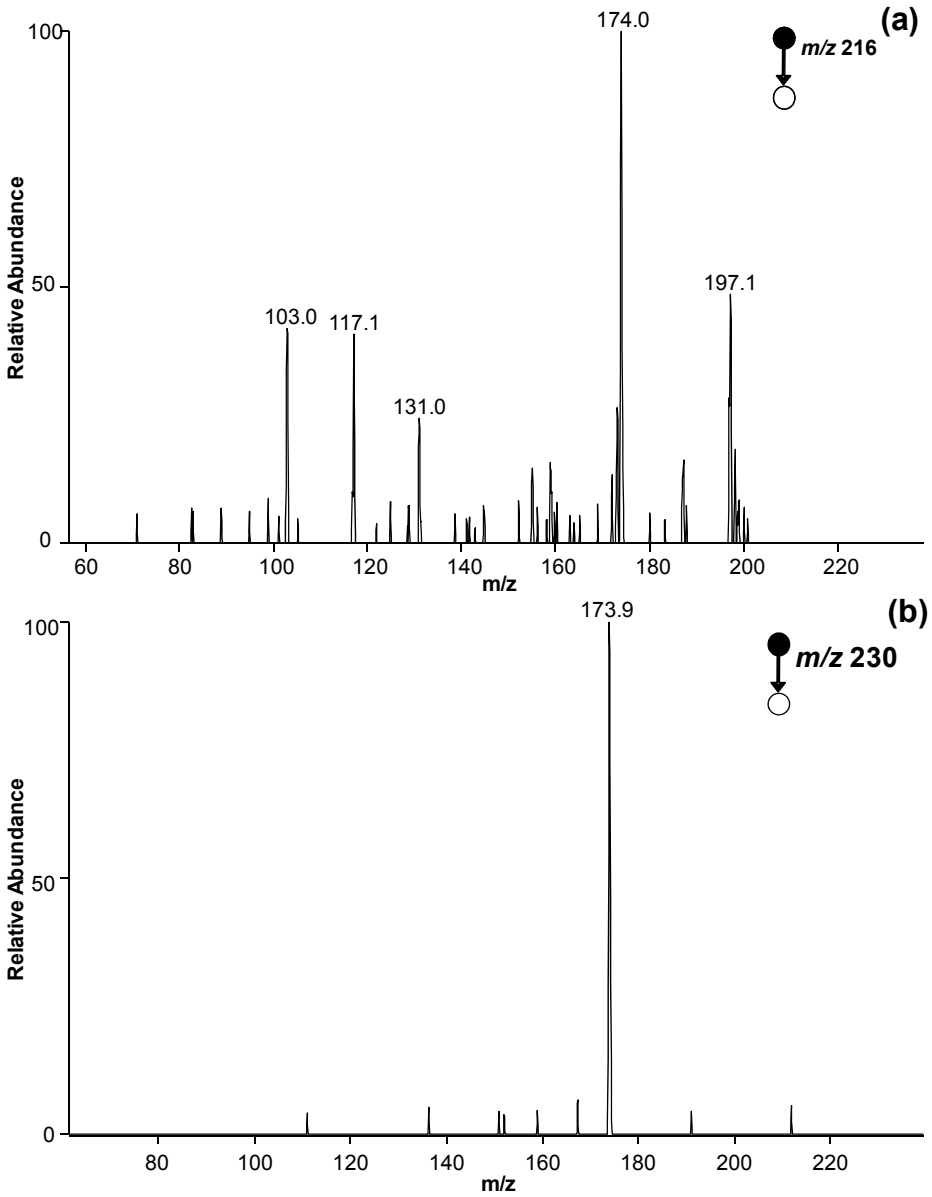

Fig. S2 Detection of selected herbicides spiked into environmental water samples by LTP-MS/MS. (a) Detection of atrazine (spiking level: 1 μg L^{-1}) in a aqueous solution (MS/MS: *m/z* 216 → 174); (b) Detection of terbuthylazine (spiking level: 10 μg L^{-1}) in aqueous solution (MS/MS: *m/z* 230 → 174). The LTP-MS experiments were performed using 3 μL of the water sample (without any sample preparation) spotted onto the glass substrate heated at 150 °C, with examination by tandem mass spectrometry.