SUPPORTING INFORMATION:

Supplementary Figure 1. The schematic diagram of the LDPI MS apparatus.
Supplementary Figure 2. The preparation of soil samples, where chlorothalonil is spiked into the soil in advance.
Supplementary Figure 3. Mass spectra of soil sample at different points which have similar signal intensities by LDPI-MS method.
Supplementary Figure 4. Mass spectra of chlorothalonil with different amounts per spot acquired from soil samples by LDPI MS.
Supplementary Figure 5. The linear correlation between the signal intensity ($m/z$ 266) and the amount of chlorothalonil deposited on each soil sample spot from 0.5 pmol to 50 pmol. Error bars indicate the standard deviations of three independent measurements.