

Supporting materials

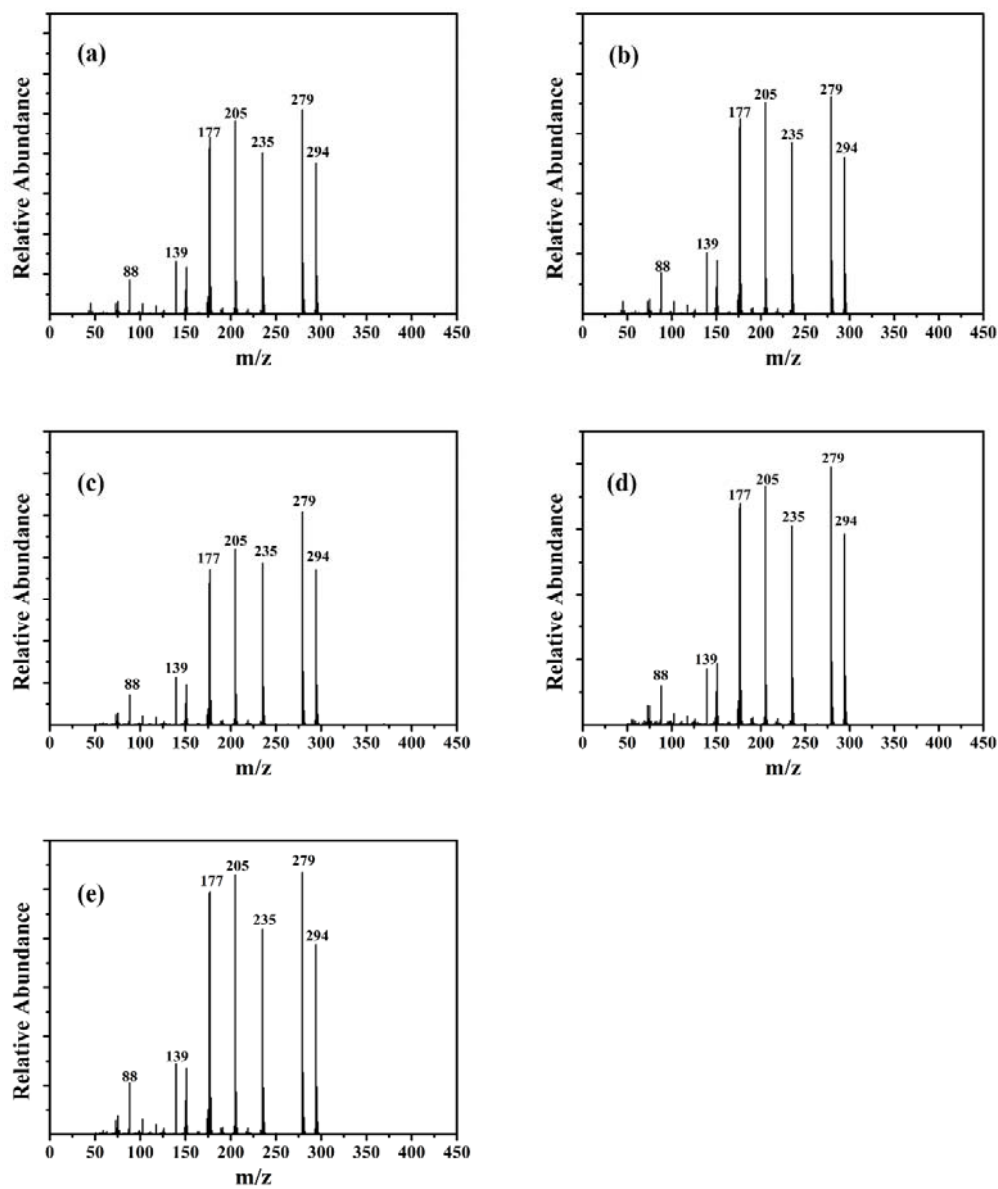


Fig. S1 Mass spectra of trimethylsilyl derivatives of 2-phenanthroic acid detected under (a) sulfate-reducing conditions; (b) methanogenic conditions; (c) nitrate-reducing conditions; (d) iron-reducing conditions; (e) authentic standard

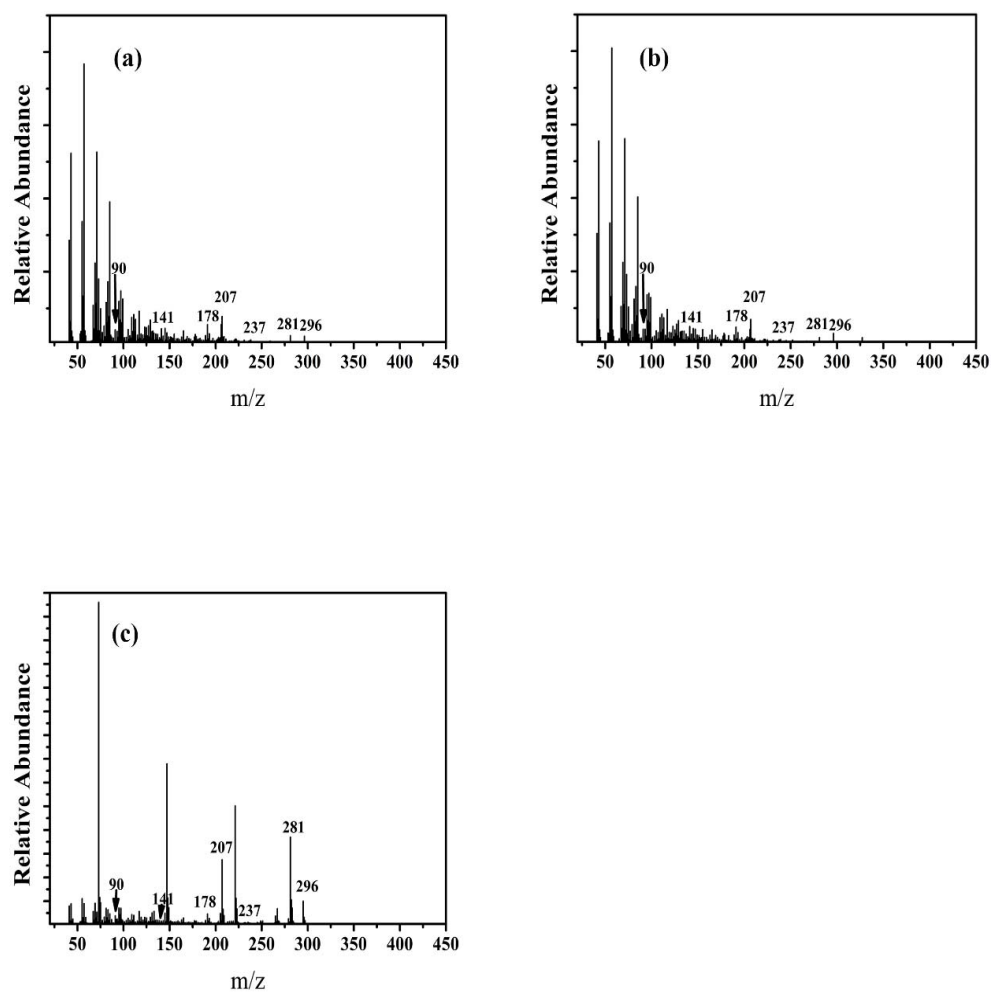


Fig. S2 Mass spectra of trimethylsilyl derivatives of dihydro-2-phenanthroic acid detected under (a) sulfate-reducing conditions; (b) methanogenic conditions; (c) nitrate-reducing conditions

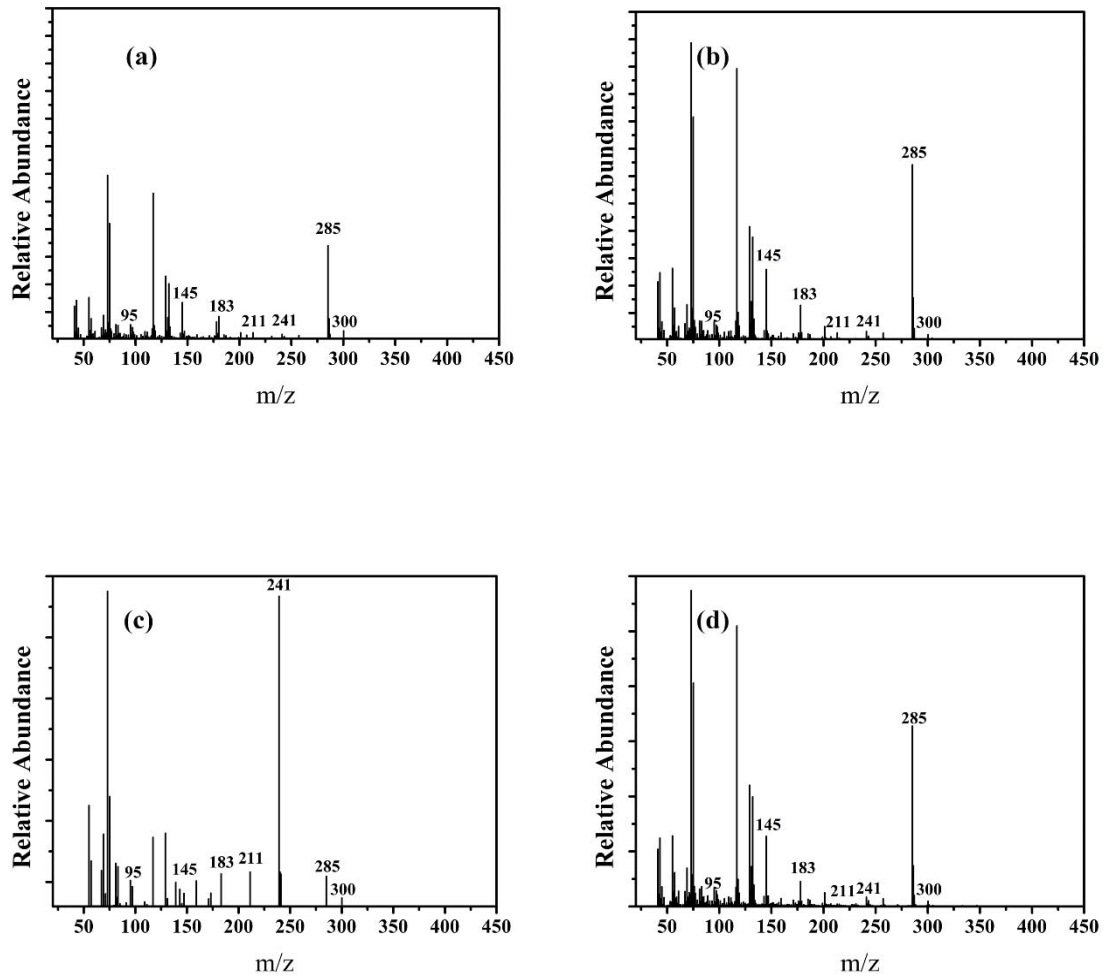


Fig. S3 Mass spectra of trimethylsilyl derivative of hexahydro-2-phenanthroic acid detected under (a) sulfate-reducing conditions; (b) methanogenic conditions; (c) nitrate-reducing conditions; (d) iron-reducing conditions

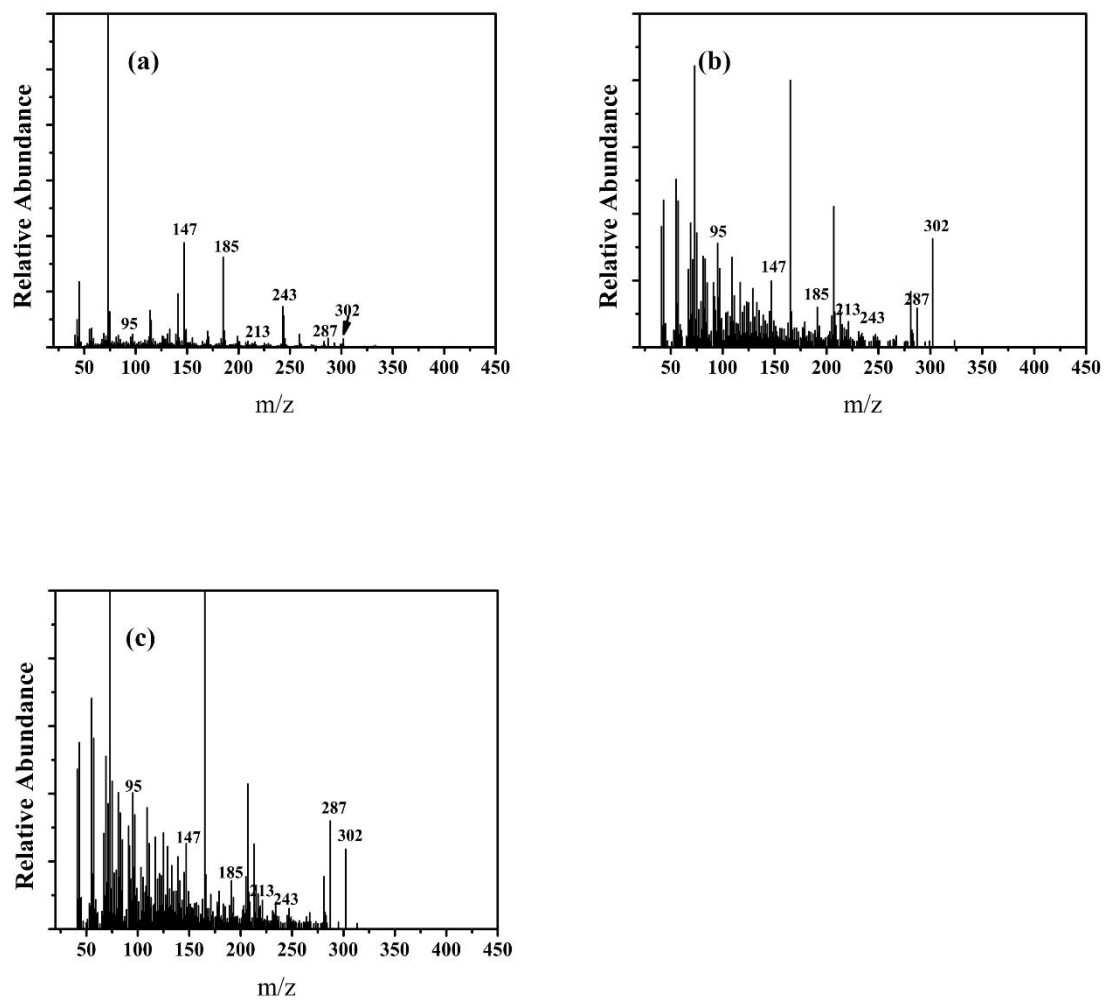


Fig. S4 Mass spectra of trimethylsilyl derivative of octahydrohydro-2-phenanthroic acid detected under (a) sulfate-reducing conditions; (b) methanogenic conditions; (c) nitrate-reducing conditions

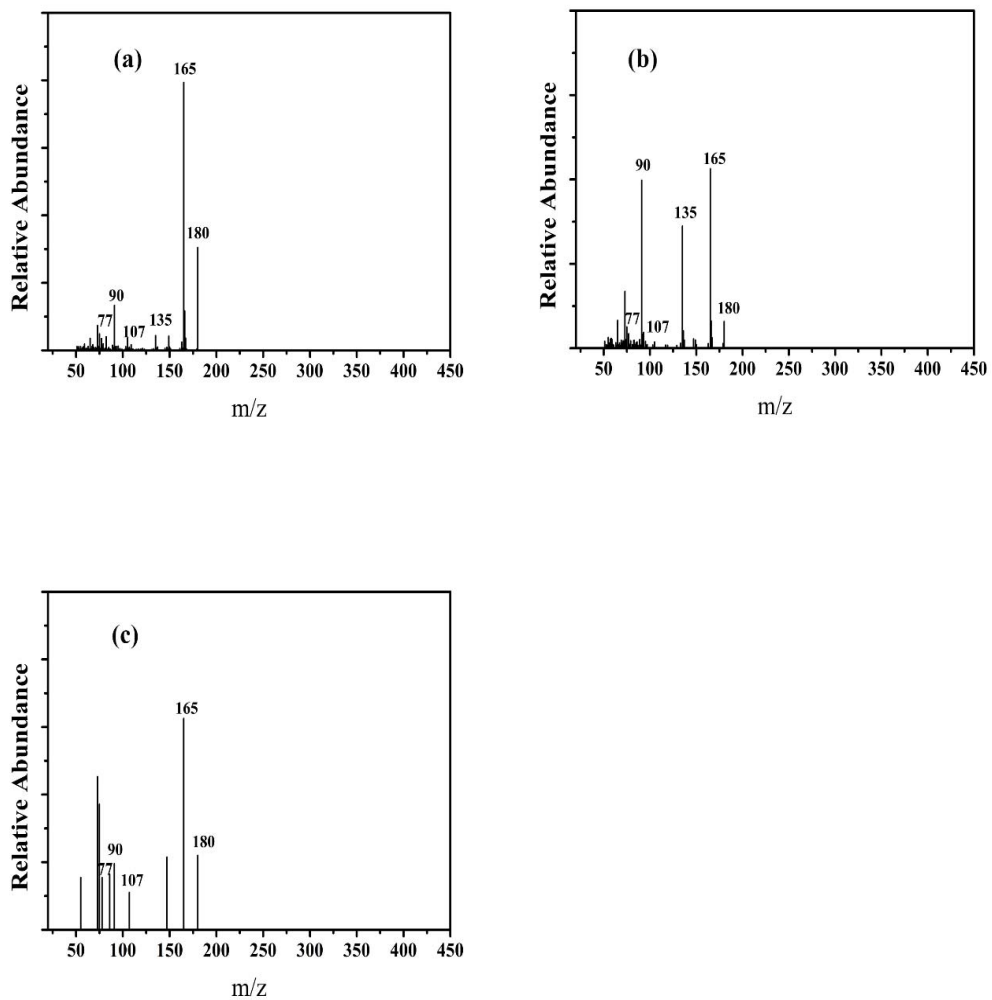


Fig. S5 Mass spectra of trimethylsilyl derivative of p-cresol detected under (a) sulfate-reducing conditions; (b) methanogenic conditions; (c) nitrate-reducing conditions

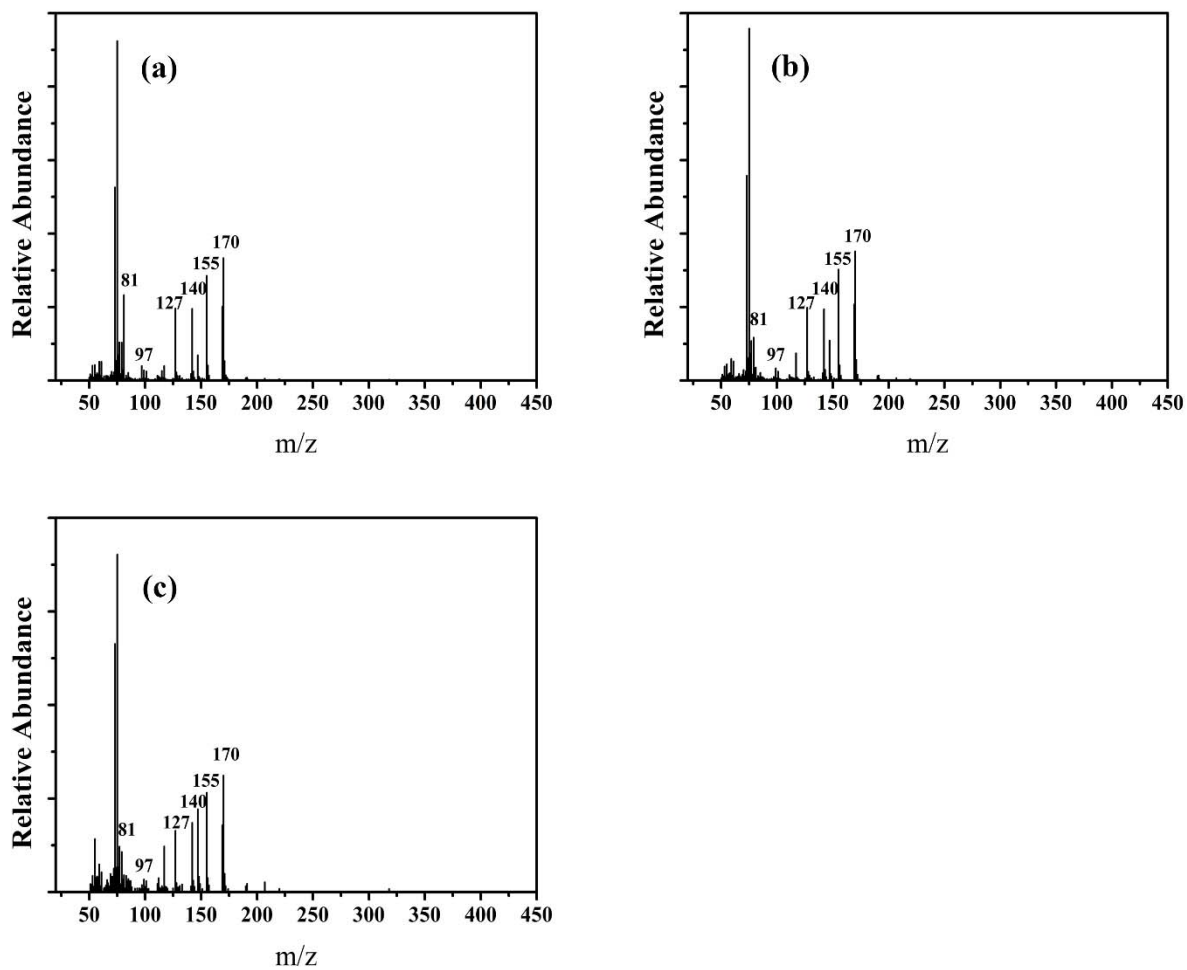


Fig. S6 Mass spectra of trimethylsilyl derivative of cyclohex-1-en-1-ol detected under (a) methanogenic conditions; (b) nitrate-reducing conditions; (c) iron-reducing conditions