

Supporting information

**The reactivity and pathway of Fenton reactions
driven by hydroxybenzoic acids: the effect of
hydroxylation**

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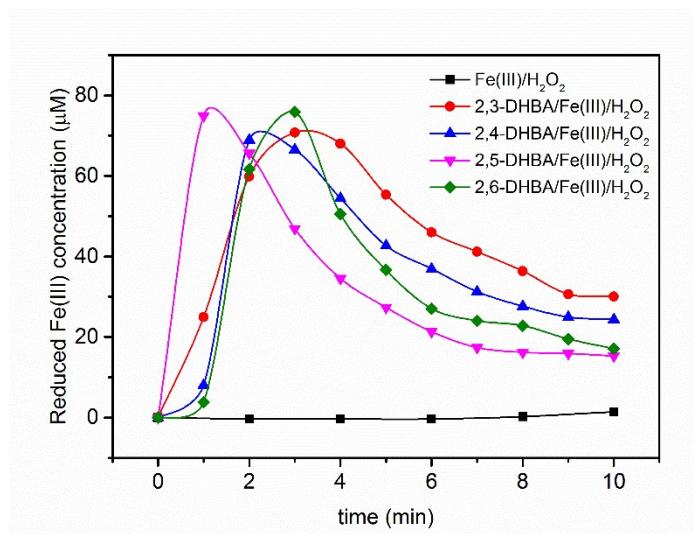
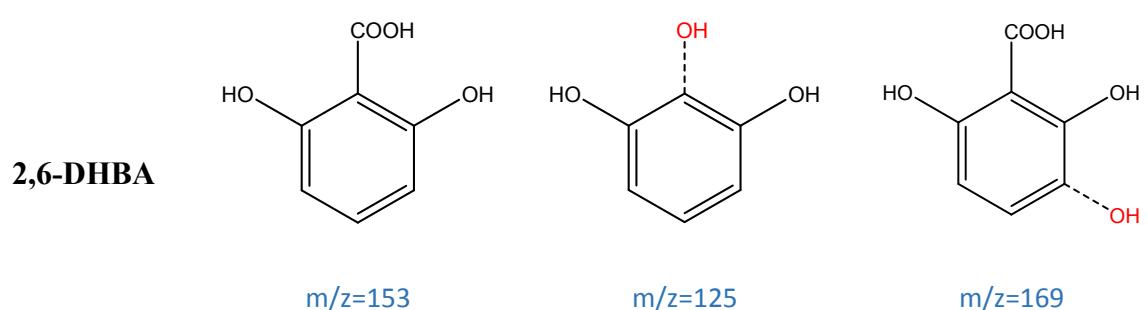


Fig. S1. Reduced Fe(III) concentration in the HBAs/Fenton system. The final concentration were HBAs 0.1 mM, FeCl_3 0.1 mM, H_2O_2 1 mM.

Scheme S1: primary products expected for each HBA

Compound	Structure	Decarboxylation	para-addition OR ortho-addition ^a
SA			
	<i>m/z</i> =137	<i>m/z</i> =109	<i>m/z</i> =153
2,3-DHBA			
	<i>m/z</i> =153	<i>m/z</i> =125	<i>m/z</i> =169
2,4-DHBA			
	<i>m/z</i> =153	<i>m/z</i> =125	<i>m/z</i> =169
2,5-DHBA			
	<i>m/z</i> =153	<i>m/z</i> =125	<i>m/z</i> =169



^a -----OH, -----OH, -----OH means the possible addition sites of HO•.