

Supplementary material to:

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Kinetics of Oxidation of Triaryl Methane Dye, Brilliant Blue-R with Chlorine Dioxide,
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Chlorine dioxide Facilitated Oxidative Degradation of Brilliant blue-R in Aqueous Solutions- Kinetics and Mechanism

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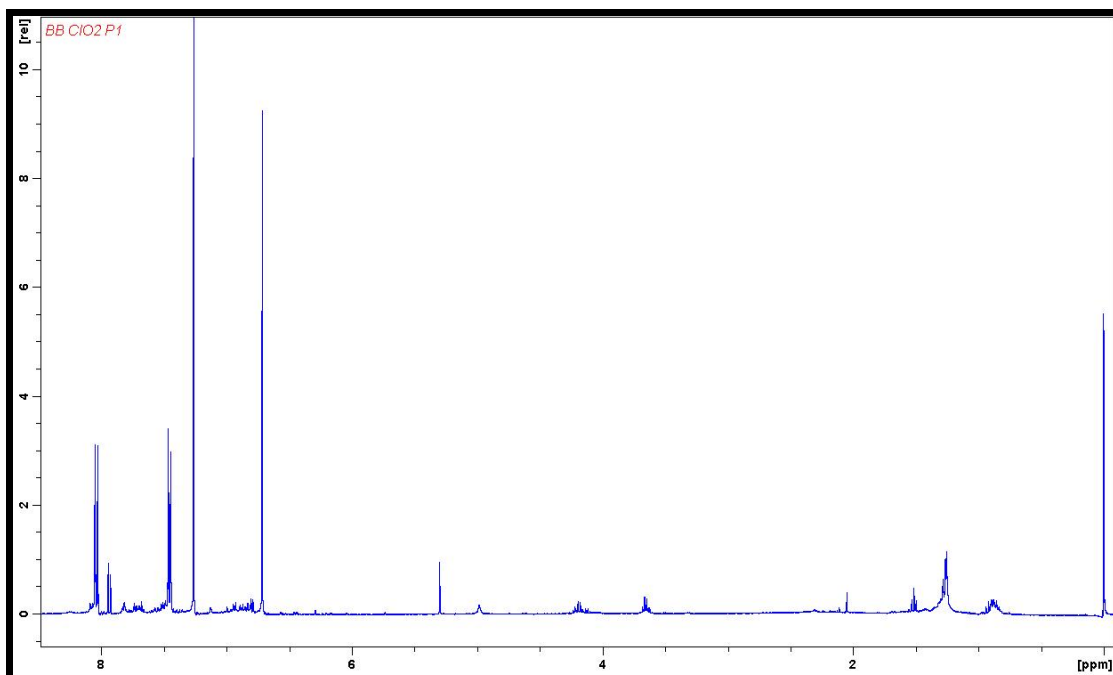


Fig. S1. ¹H NMR spectrum for Product P1 4-(4-ethoxy-phenylamino)-benzoic acid.

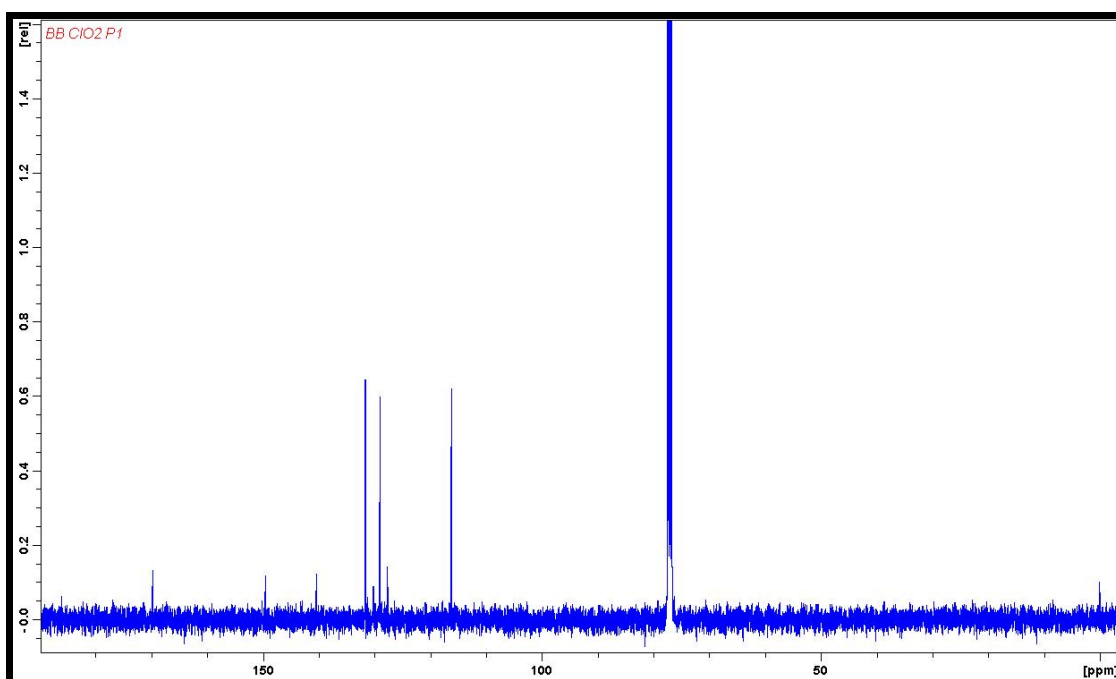


Fig. S2. ¹³C NMR spectrum for Product P1 4-(4-ethoxy-phenylamino)-benzoic acid.

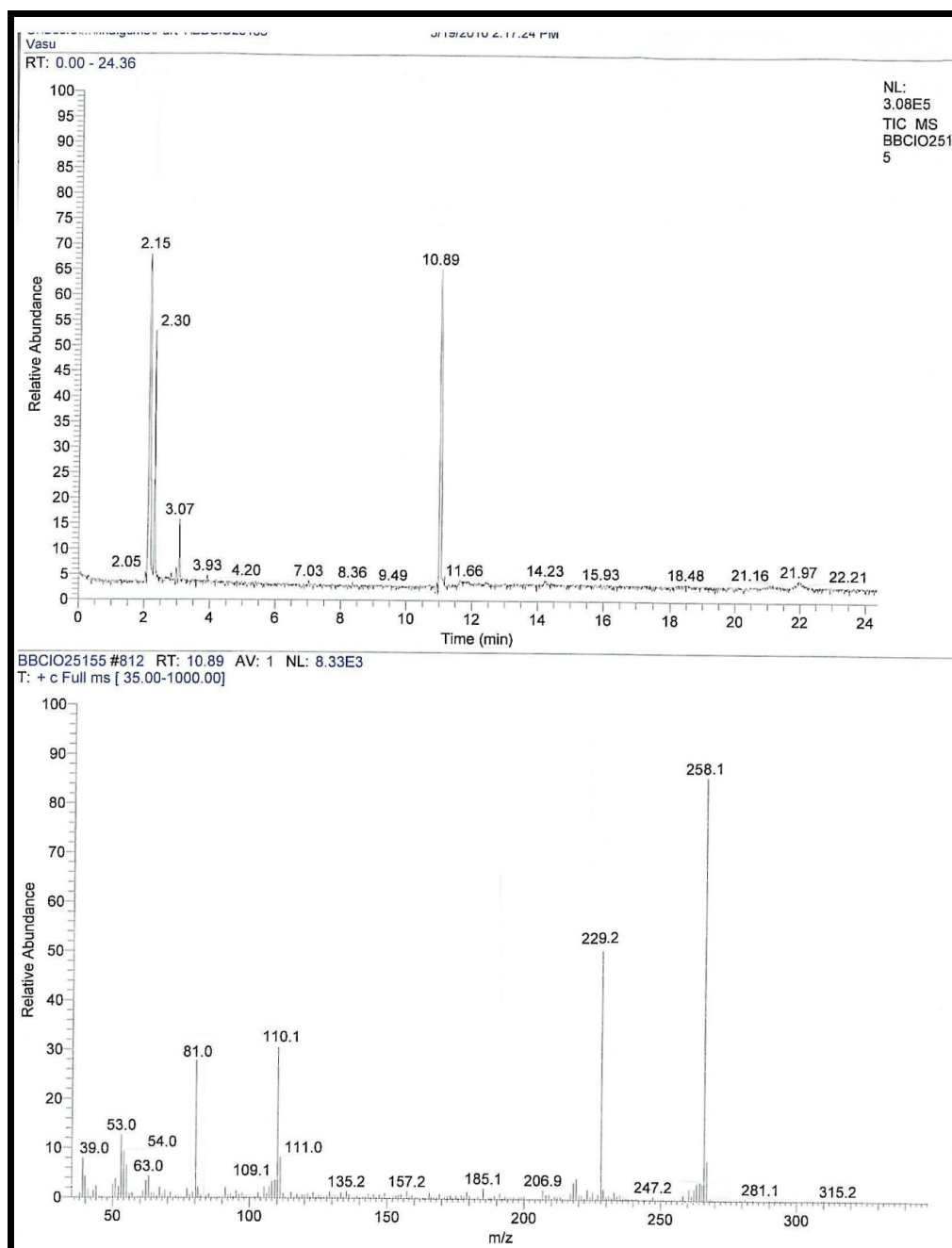


Fig. S3. GC-MS spectrum of brilliant blue-R major oxidation product P1 4-(4-ethoxy-phenylamino)-benzoic acid).

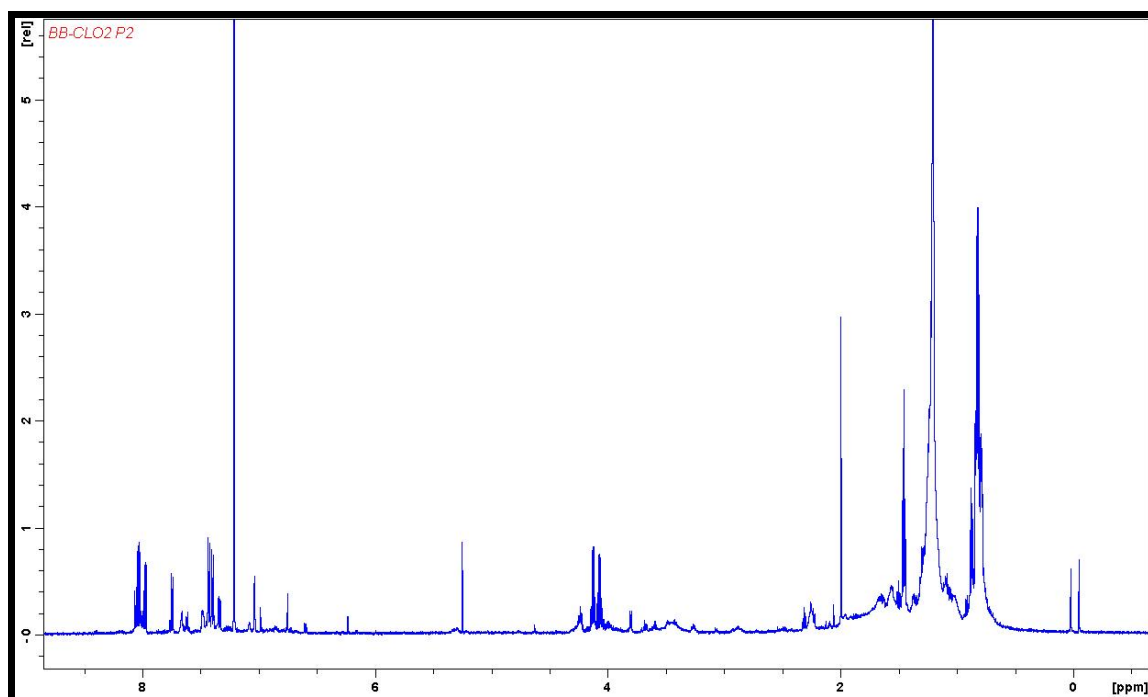


Fig. S4. ^1H NMR Spectrum for Product P2 3,3'-(biphenyl-4,4'-diylbis(ethylazanediyloxy))bis(methylene)dibenzenesulfonate.

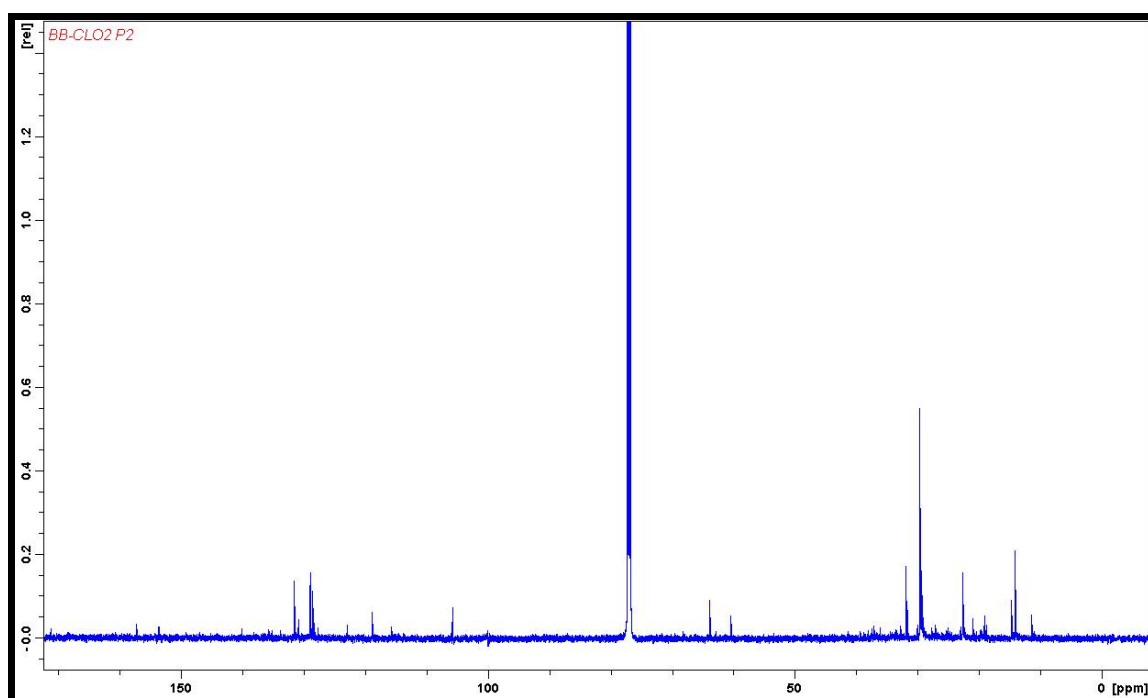


Fig. S5. ^{13}C NMR spectrum for Product P2 3,3'-(biphenyl-4,4'-diylbis(ethylazanediyloxy))bis(methylene)dibenzenesulfonate.

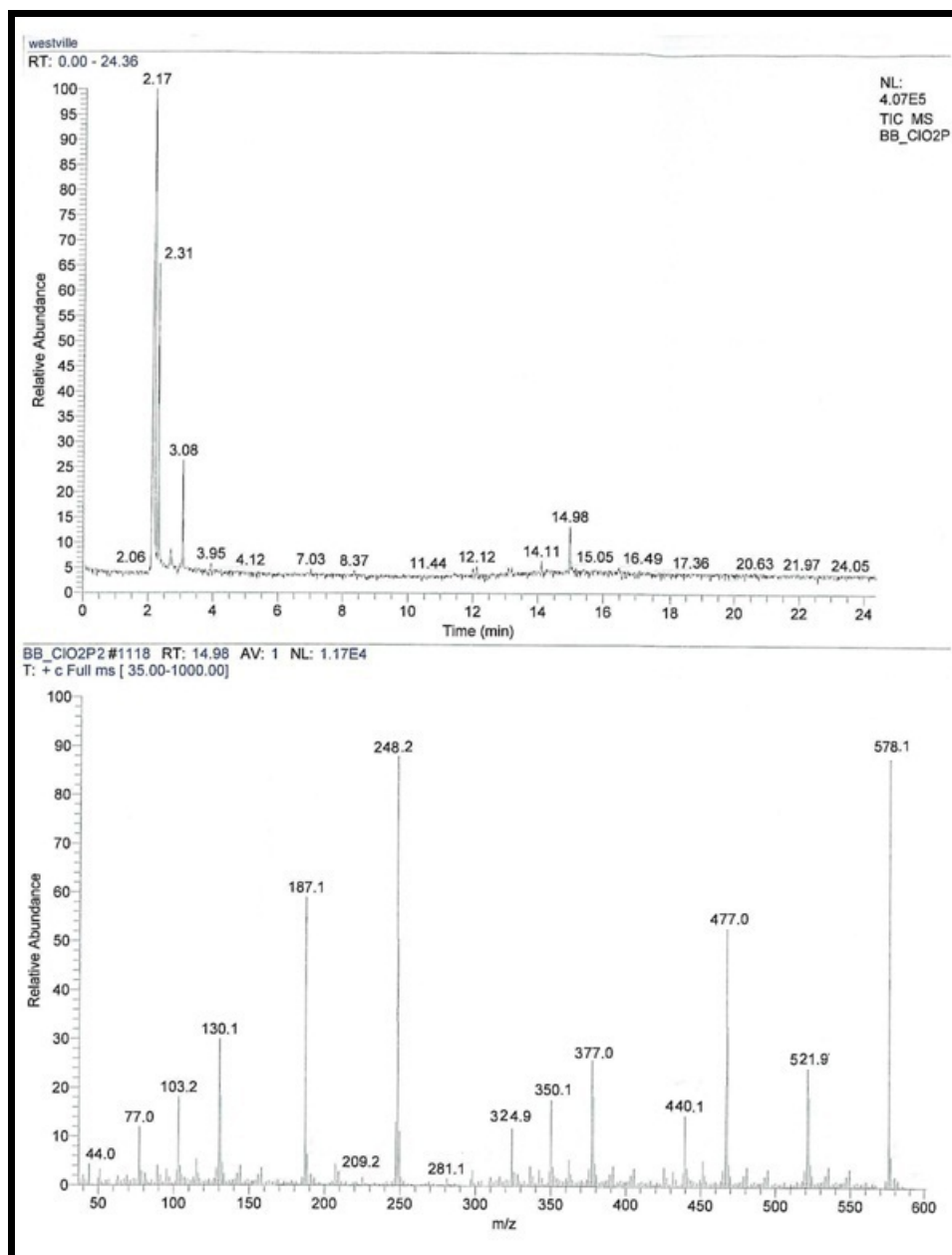


Fig. S6. GC-MS spectrum of brilliant blue-R major oxidation product P2 3,3'-(biphenyl-4,4'-diylbis(ethylazanediy))bis(methylene)dibenzenesulfonate.