

Supplementary Materials

Liver-on-a-Chip–Magnetic nanoparticle bound synthetic metalloporphyrin-catalyzed biomimetic oxidation of a drug in a magnechip reactor

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1. Results of HPLC-DAD-MS analysis

1.1. Liquid chromatography (HPLC) chromatograms of the biomimetic reactions

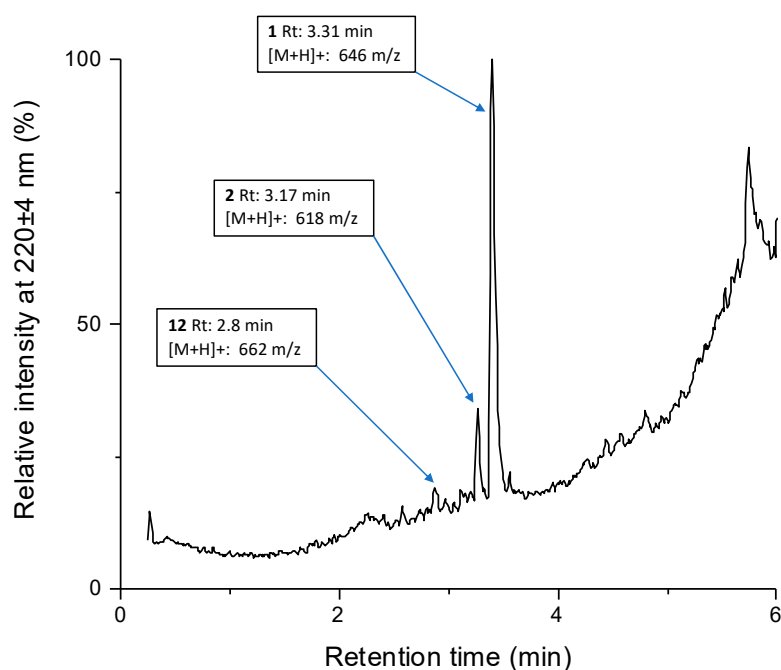


Figure S1. Representative HPLC/MS data of human liver microsomal investigation of amiodarone.

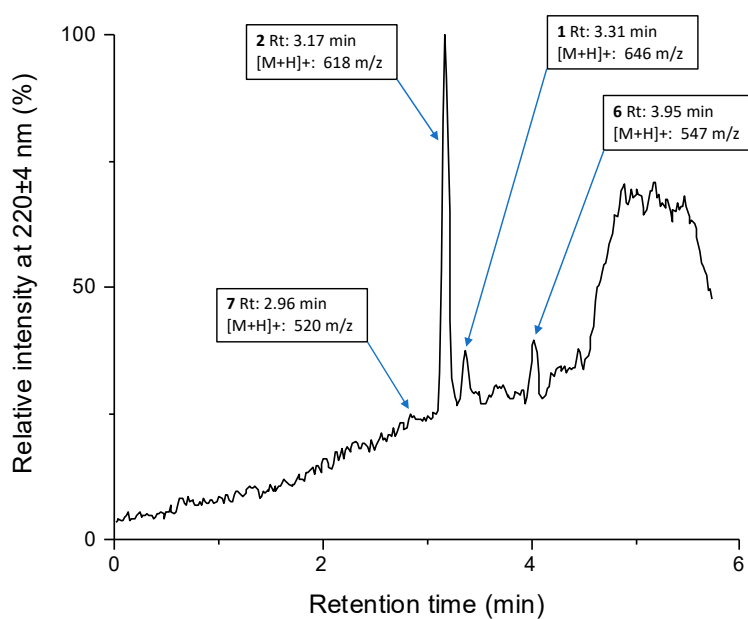


Figure S2. Representative HPLC/MS data of non-immobilized FeTPFP-catalyzed biomimetic oxidation of amiodarone.

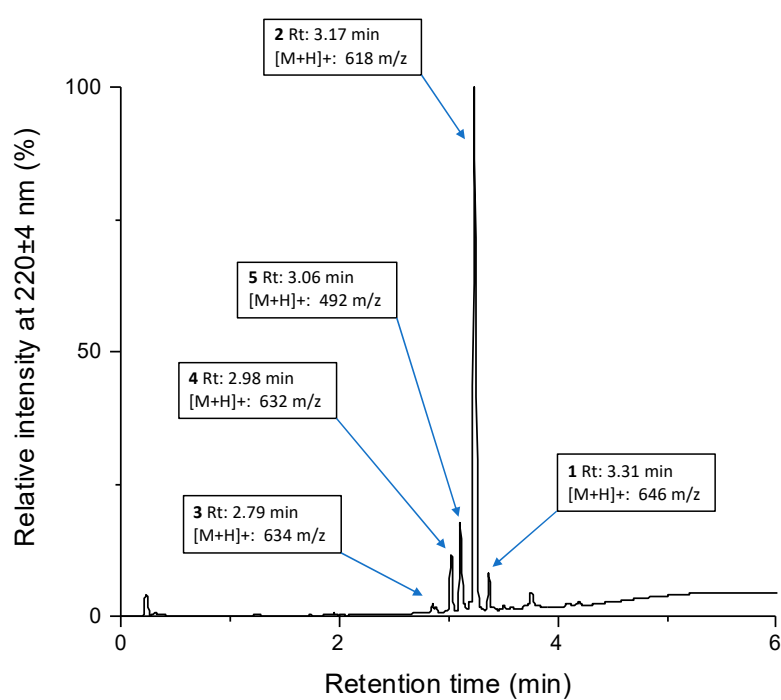


Figure S3. Representative HPLC/MS data of non-immobilized FeTSPP-catalyzed biomimetic oxidation of amiodarone.

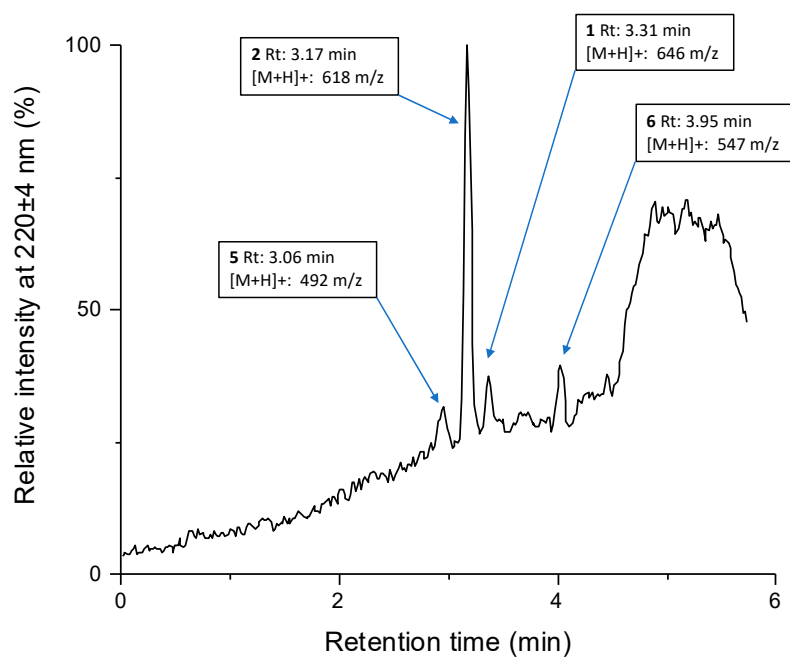


Figure S4. Representative HPLC/MS data of FeTPFP-functionalized magnetic nanoparticles-catalyzed biomimetic oxidation of amidarone in batch mode.

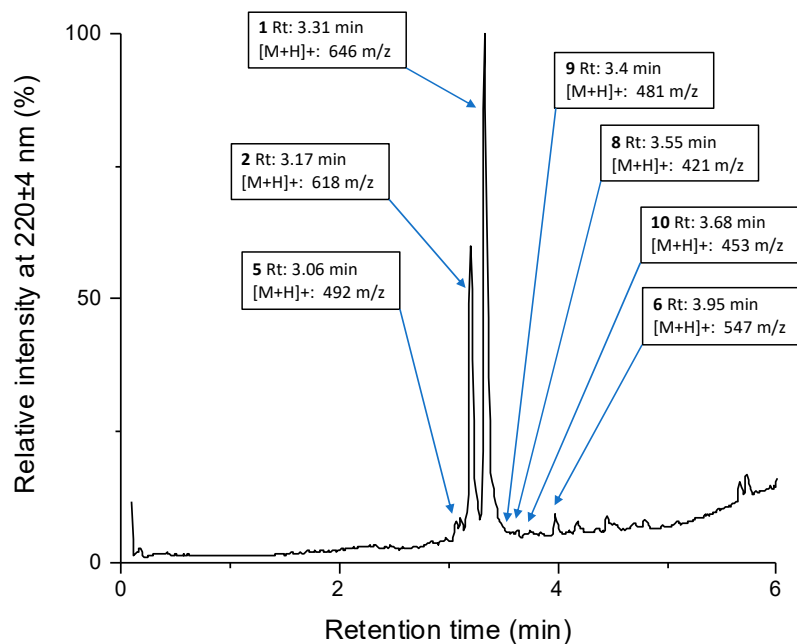


Figure S5. Representative HPLC/MS data of FeTSPF-functionalized magnetic nanoparticles-catalyzed biomimetic oxidation of amidarone in batch mode.

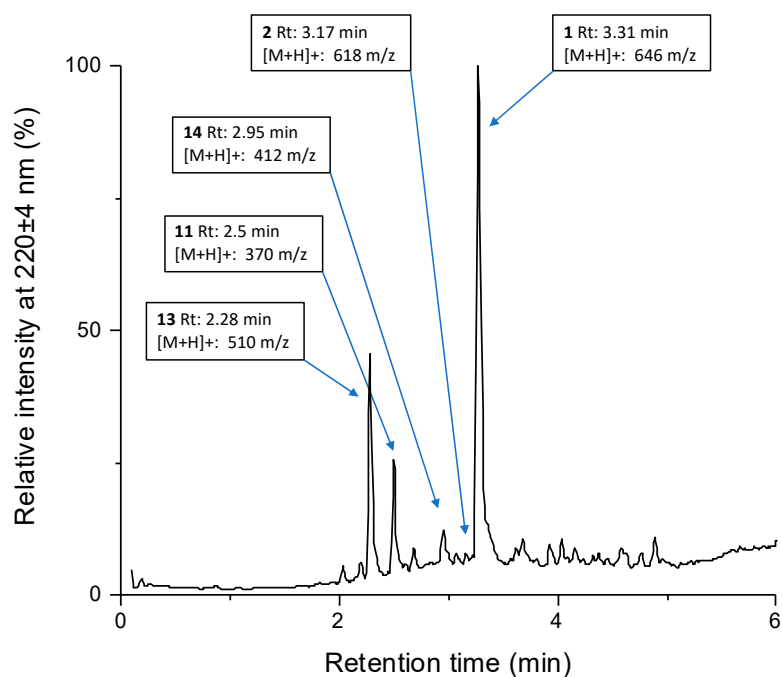


Figure S6. Representative HPLC/MS data of FeTPFP-functionalized magnetic nanoparticles-catalyzed biomimetic oxidation of amiodarone in continuous-flow magnetic chip reactor.

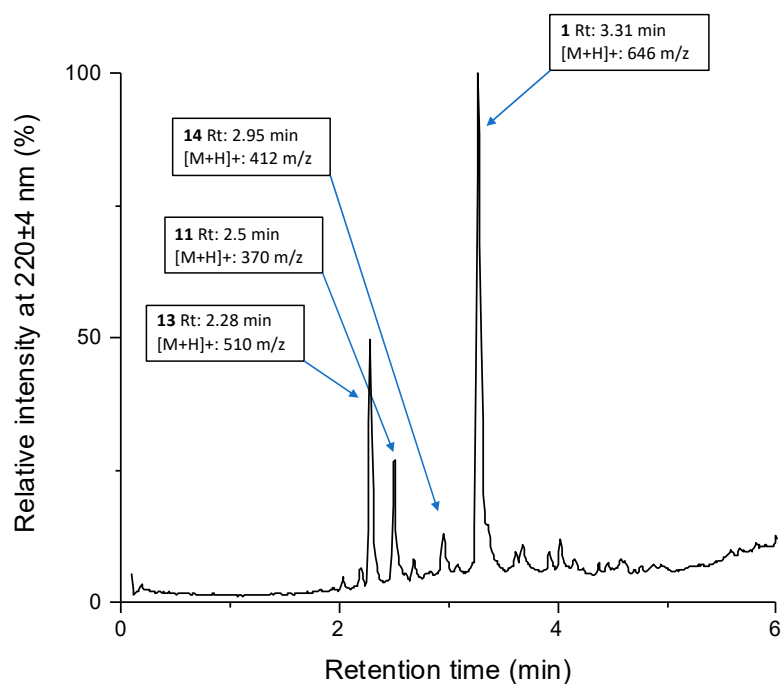


Figure S7. Representative HPLC/MS data of FeTSPF-functionalized magnetic nanoparticles-catalyzed biomimetic oxidation of amiodarone in continuous-flow magnetic chip reactor.

1.2. Identification of amiodarone and its metabolites by mass spectroscopy (MS)

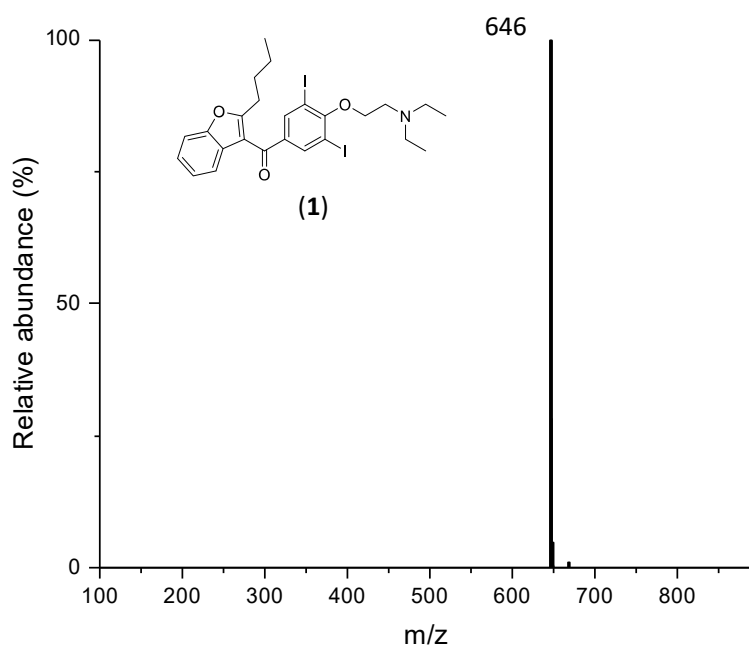


Figure S8. MS spectrum of amiodarone (1).

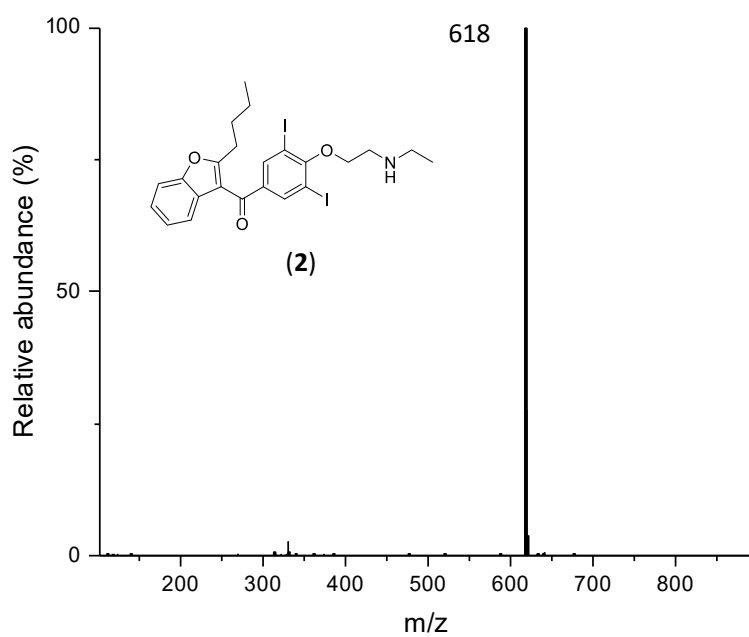


Figure S9. MS spectrum of amiodarone metabolite (2).

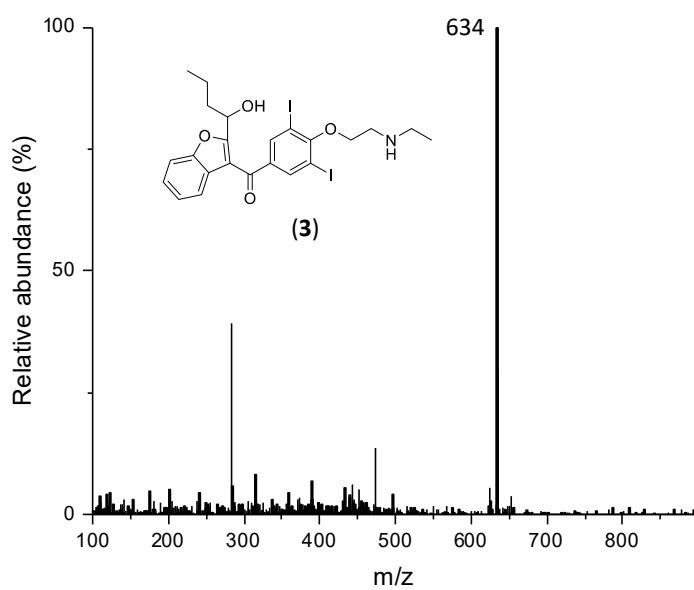


Figure S10. MS spectrum of amiodarone metabolite (3).

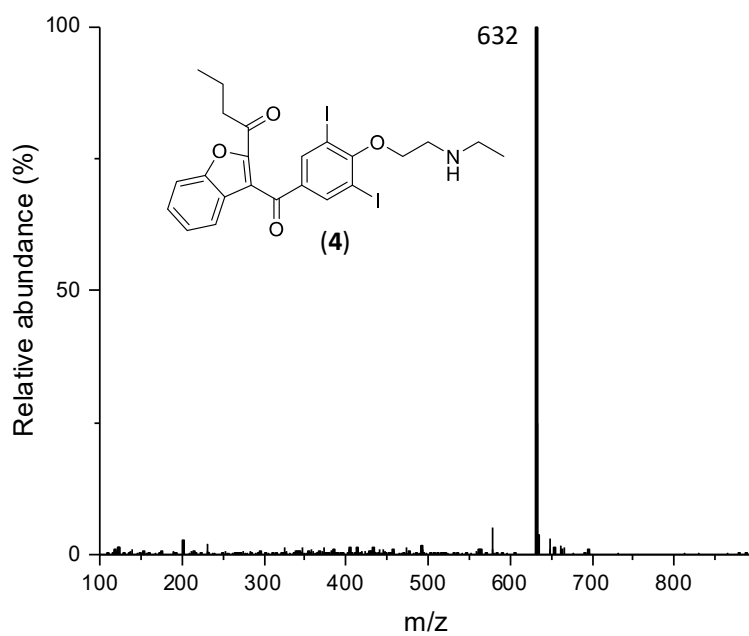


Figure S11. MS spectrum of amiodarone metabolite (4).

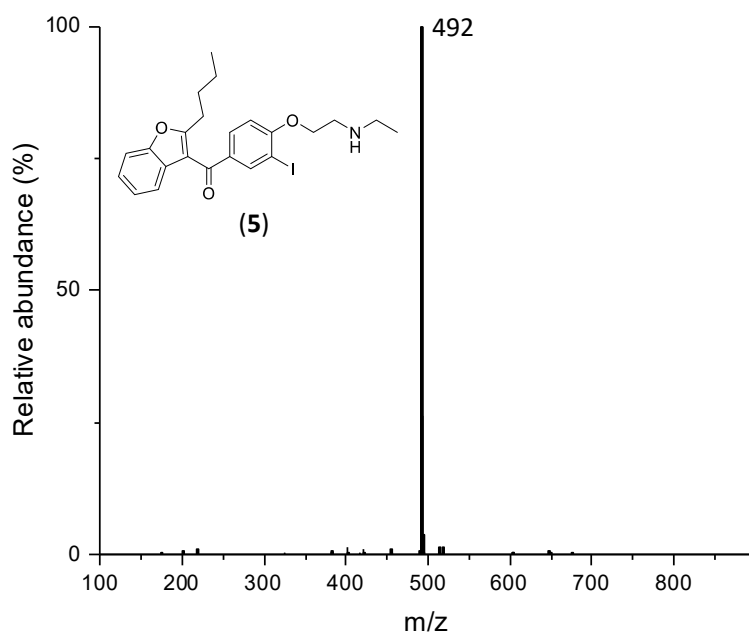


Figure S12. MS spectrum of amiodarone metabolite (5).

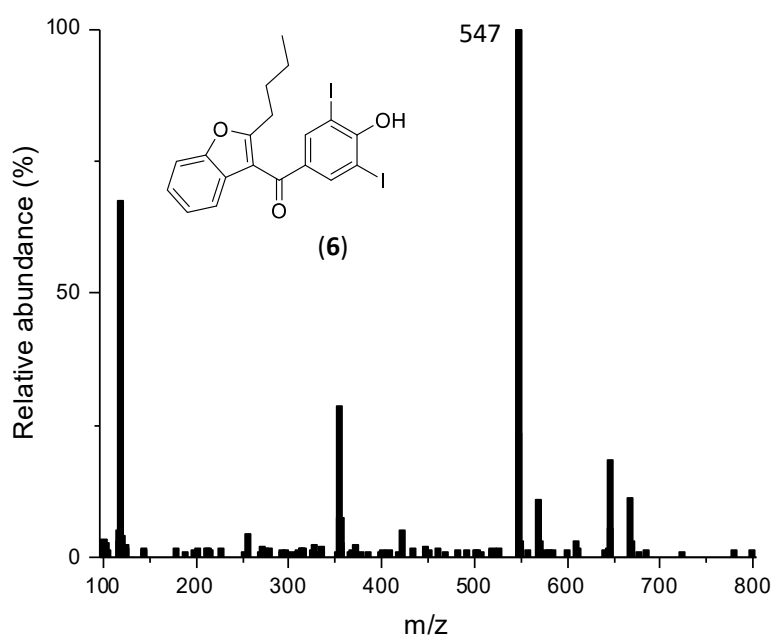


Figure S13. MS spectrum of amiodarone metabolite (6).

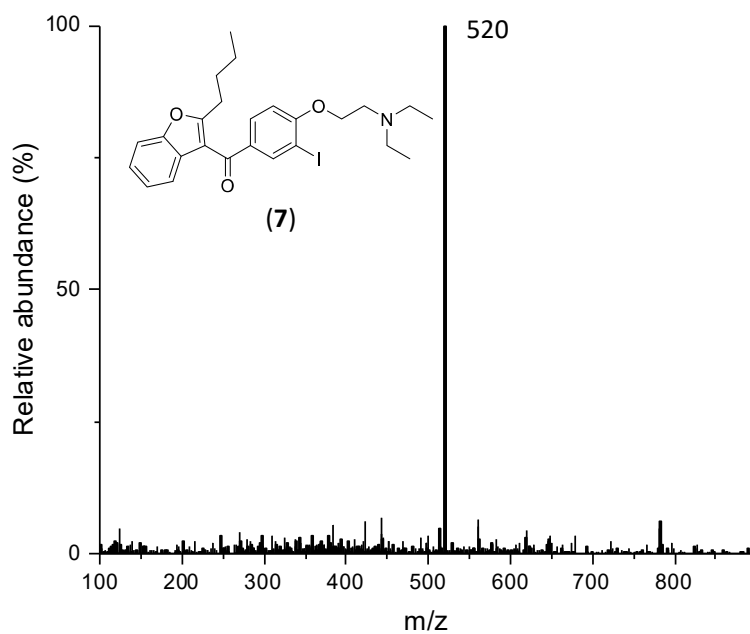


Figure S14. MS spectrum of amiodarone metabolite (7).

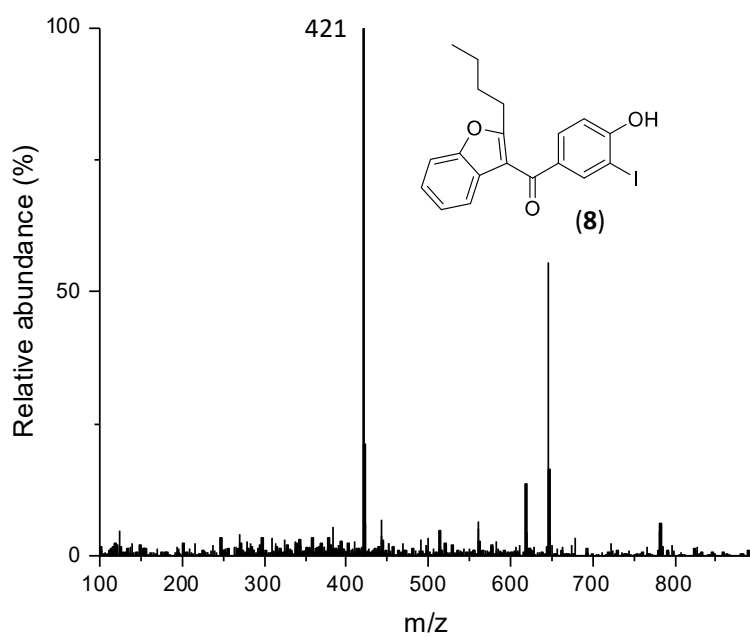


Figure S15. MS spectrum of amiodarone metabolite (8).

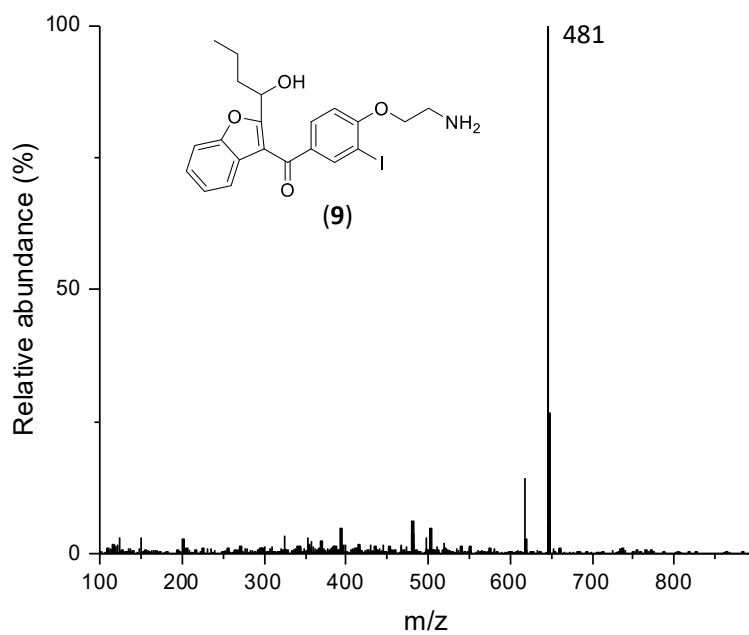


Figure S16. MS spectrum of amiodarone metabolite (9).

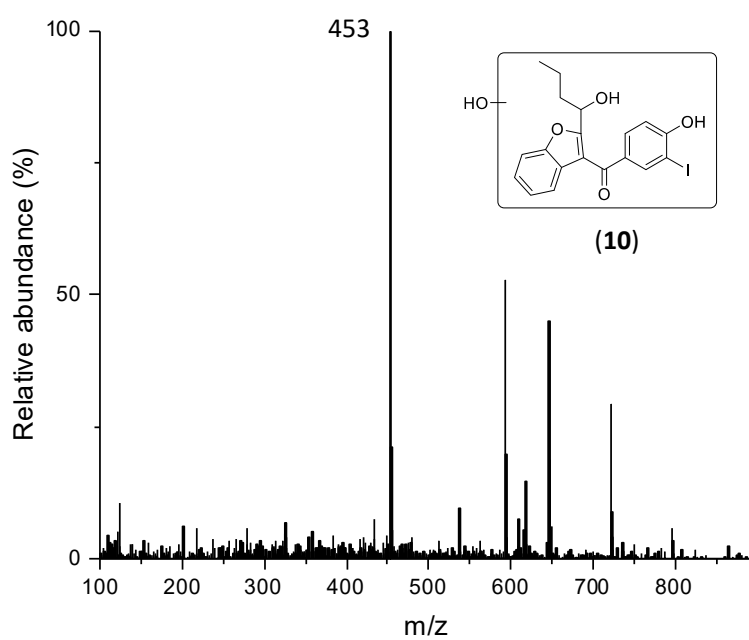


Figure S17. MS spectrum of amiodarone metabolite (10).

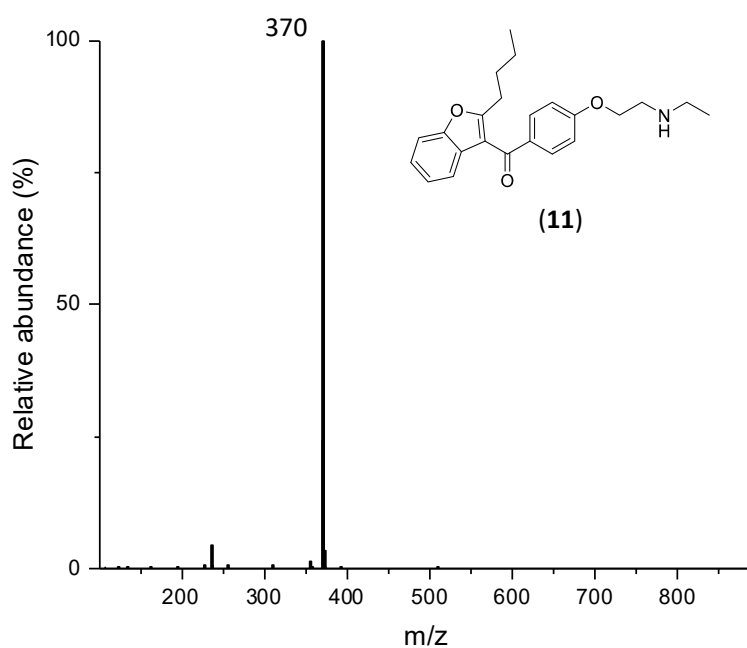


Figure S18. MS spectrum of amiodarone metabolite (11).

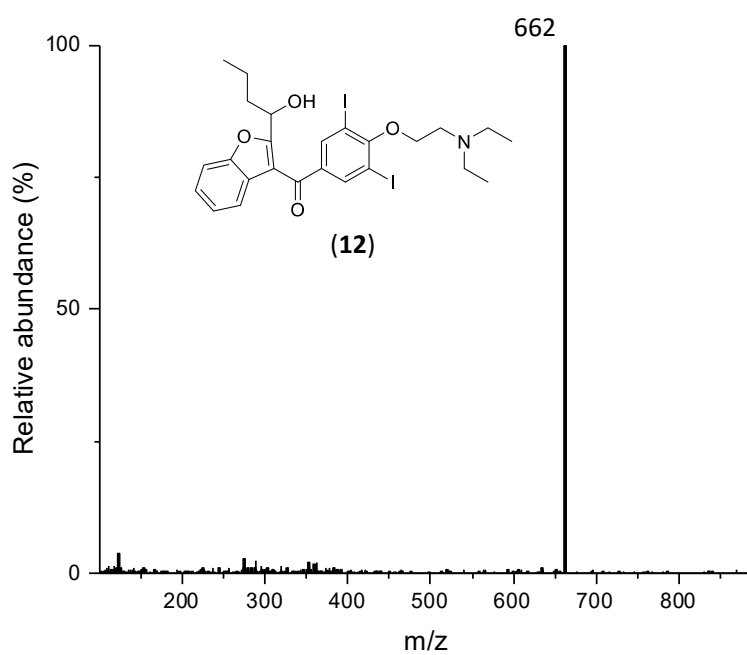


Figure S19. MS spectrum of amiodarone metabolite (12).

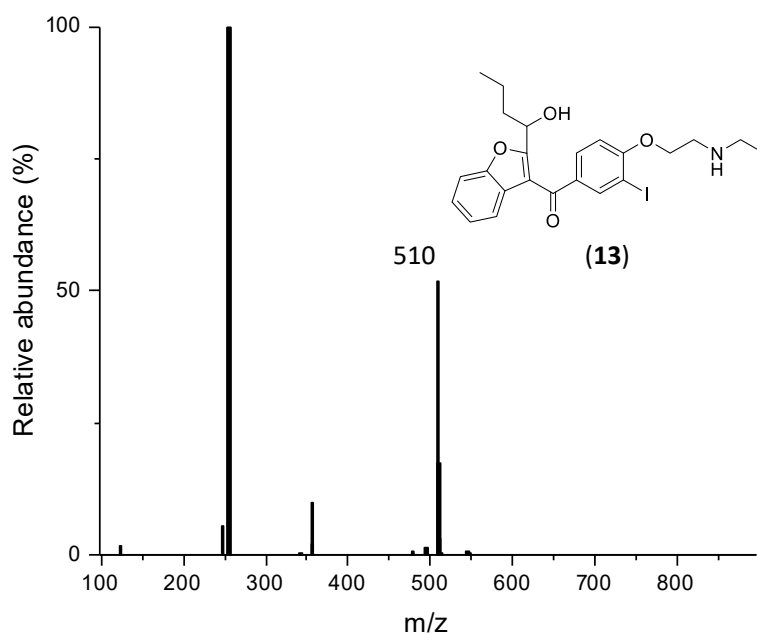


Figure S20. MS spectrum of amiodarone metabolite (13).

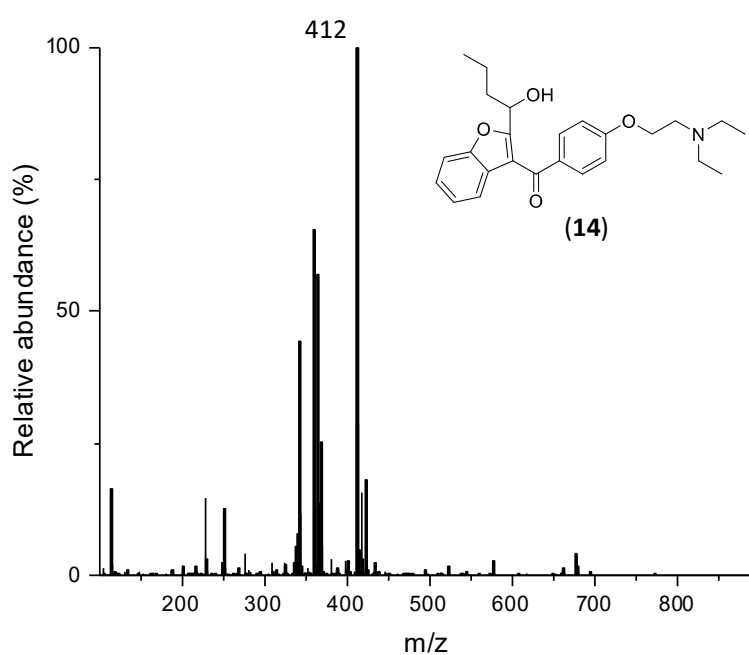


Figure S21. MS spectrum of amiodarone metabolite (14).

