

Fig. S1. The sensitivity test for the (a) solvent composition, (b) injection volume, (c) nebulizer pressure, (d) drying gas flow rate, (e) drying gas temperature, (f) fragmentor voltage, and (g) collision energy used to select major factors for optimizing the HPLC-MS/MS.

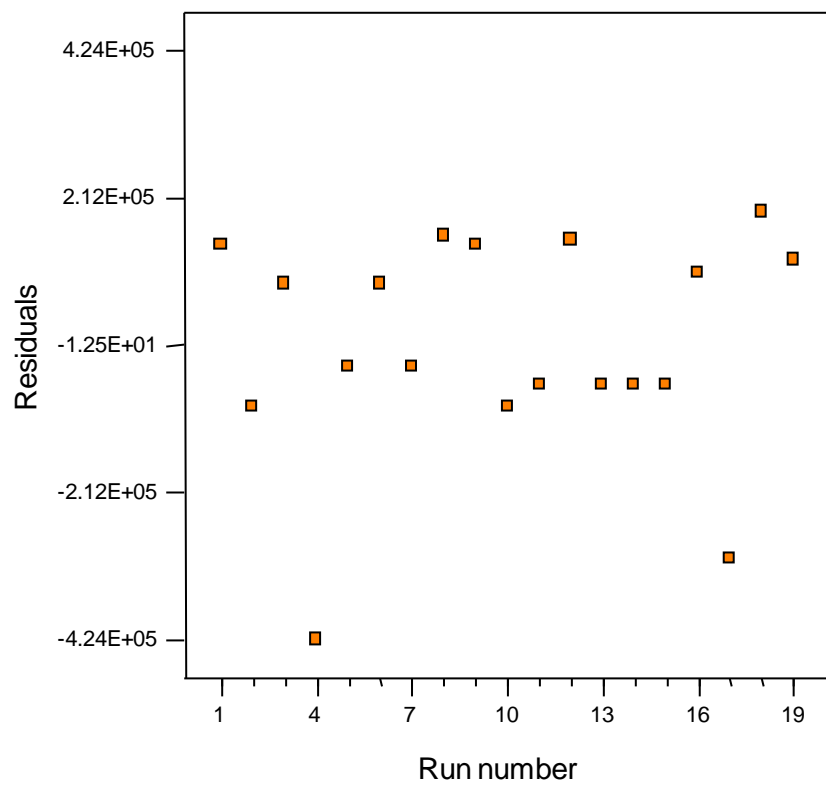
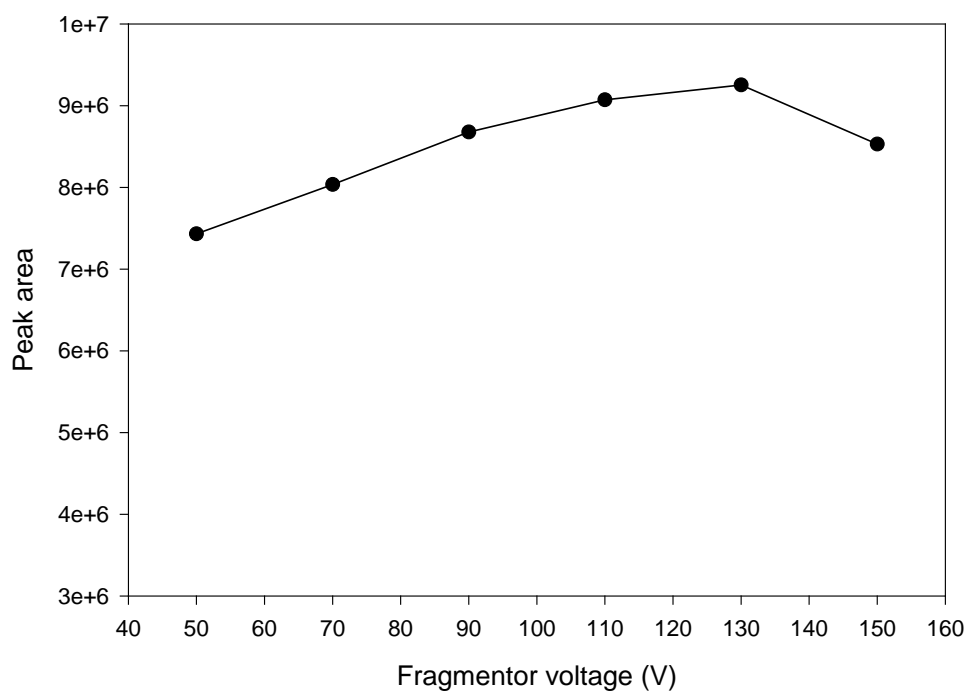
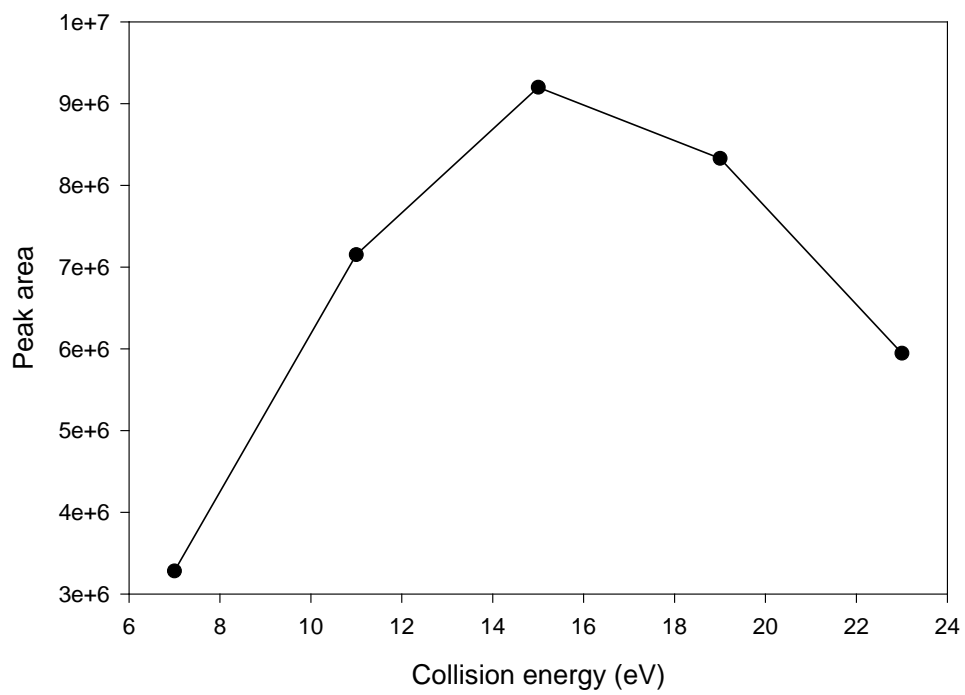


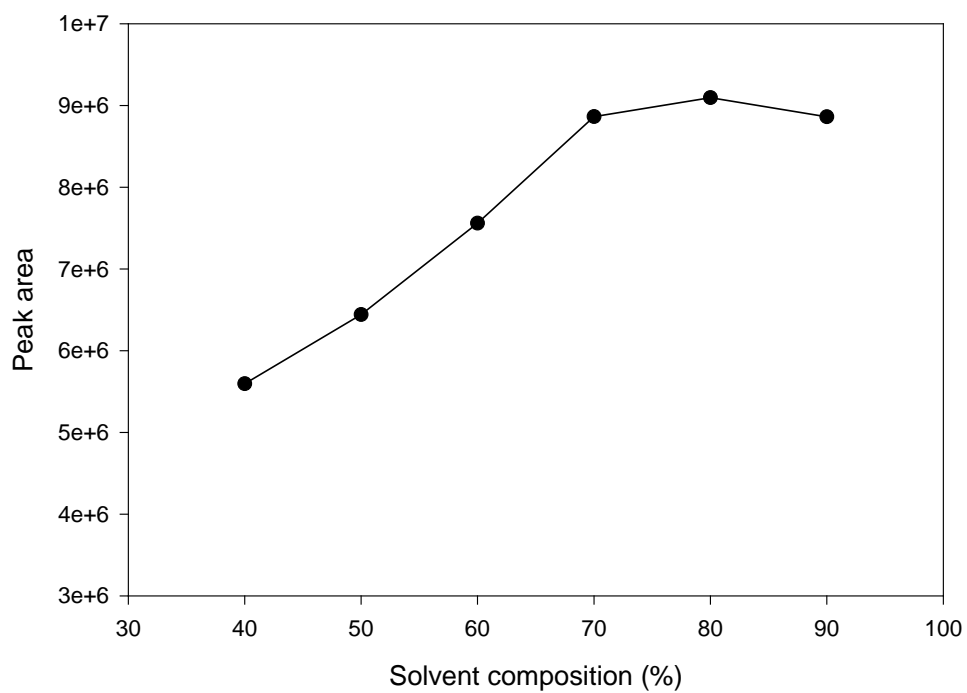
Fig. S2. Residual plots of the partial cubic model for the peak area of product ion 462 m/z . Each residual was calculated using Eq. (3).



(a)



(b)



(c)

Fig. S3. The variance in the peak area according to changing one factor at a time. One factor among (a) fragmentor voltage, (b) collision energy, and (c) solvent composition was tested while the other independent variables were fixed at the optimum conditions.