

Electronic Supplementary Information

Perovskite Solar Cells using Dicarboxylic Fullerene Derivative

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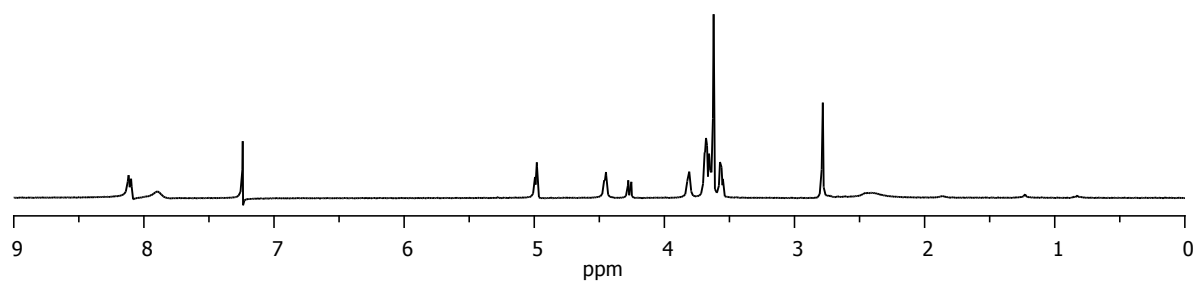


Fig. S1. ^1H NMR Spectrum of benzoic acid fullerene bis adducts (BAFB) compound

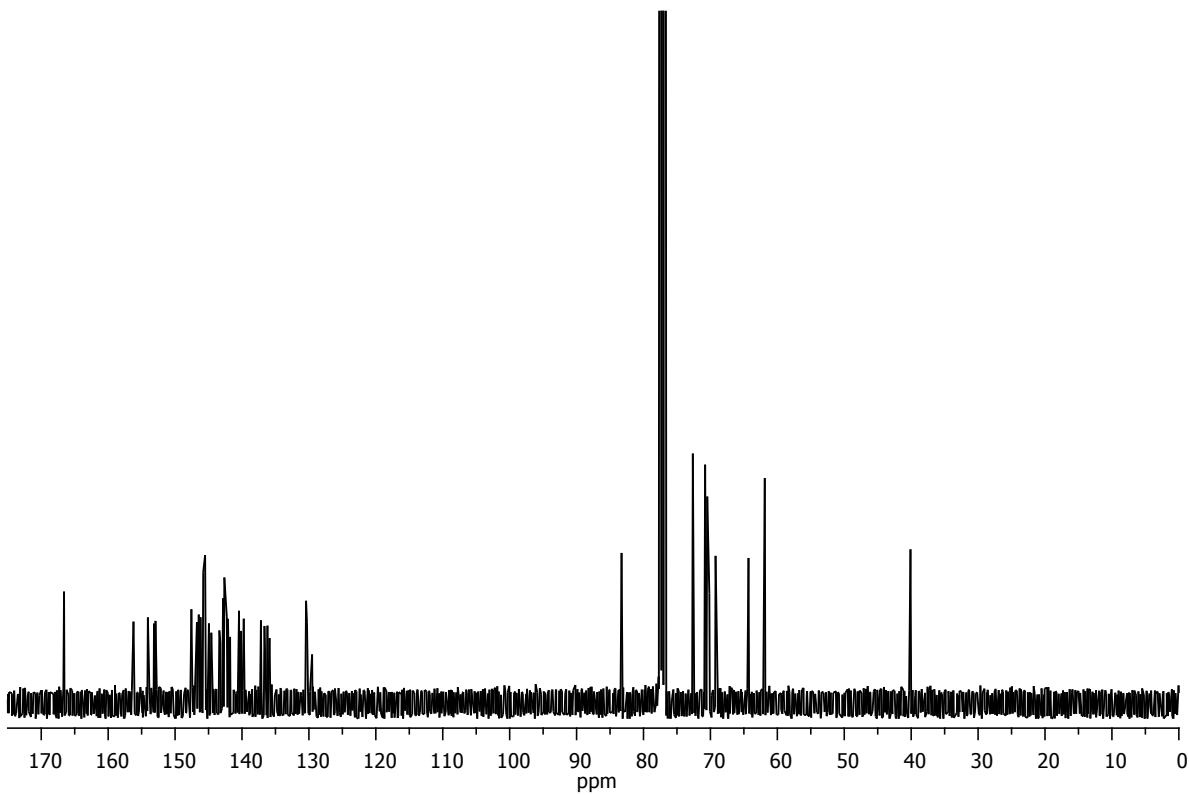
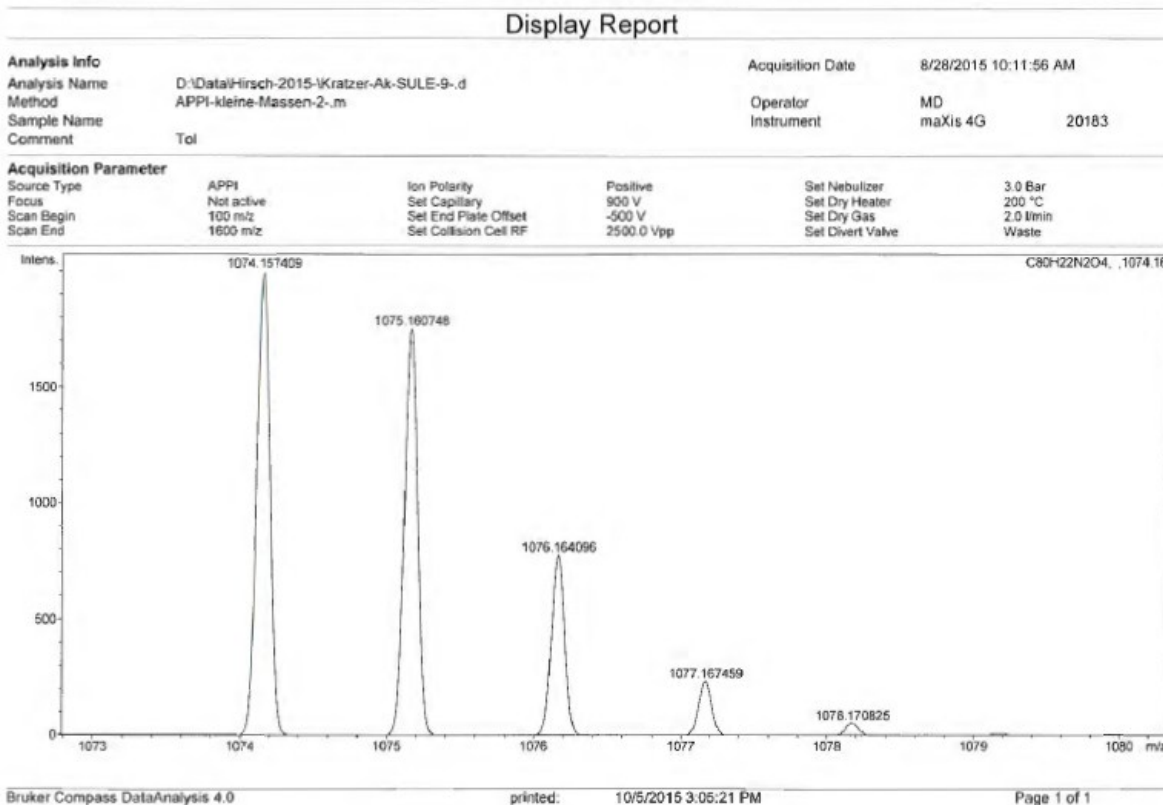
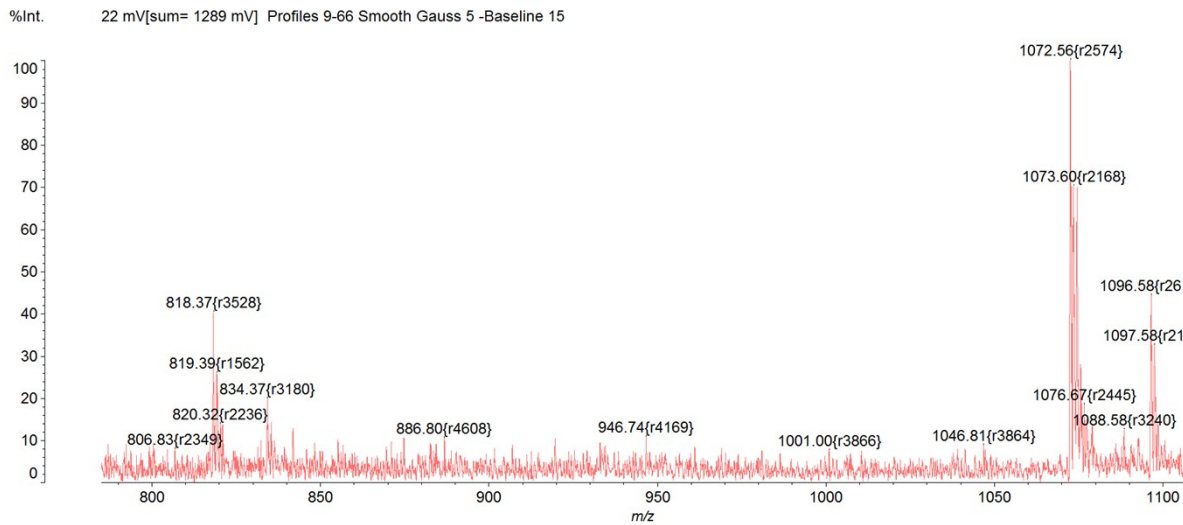


Fig. S2. ^{13}C NMR Spectrum of benzoic acid fullerene bis adducts (BAFB) compound

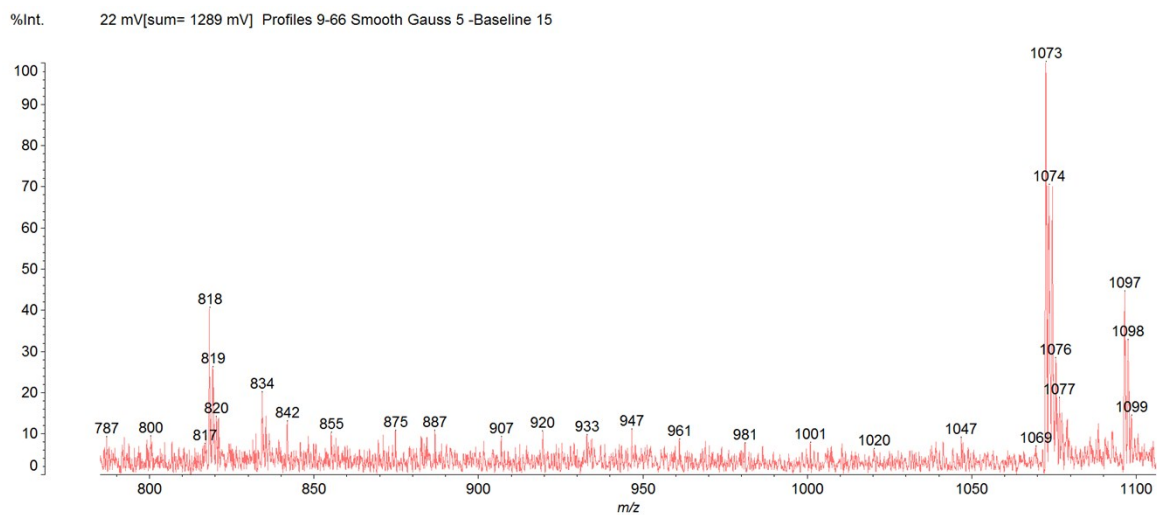
a)



b)



c)



d)

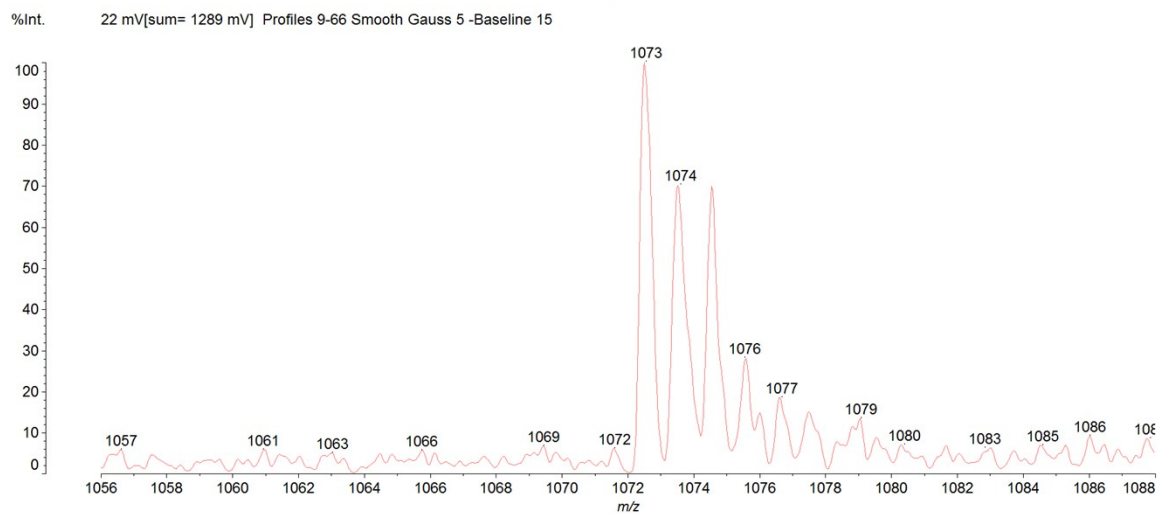


Fig. S3. Mass spectra of benzoic acid fullerene bis adducts (BAFB) compound