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Synthesis of dibenzo cyclohepta[1,2-a]naphthalene derivatives from phenylacetaldehyde and alkynyl benzyl alcohols via sequential electrophilic addition and double Friedel-Crafts reactions

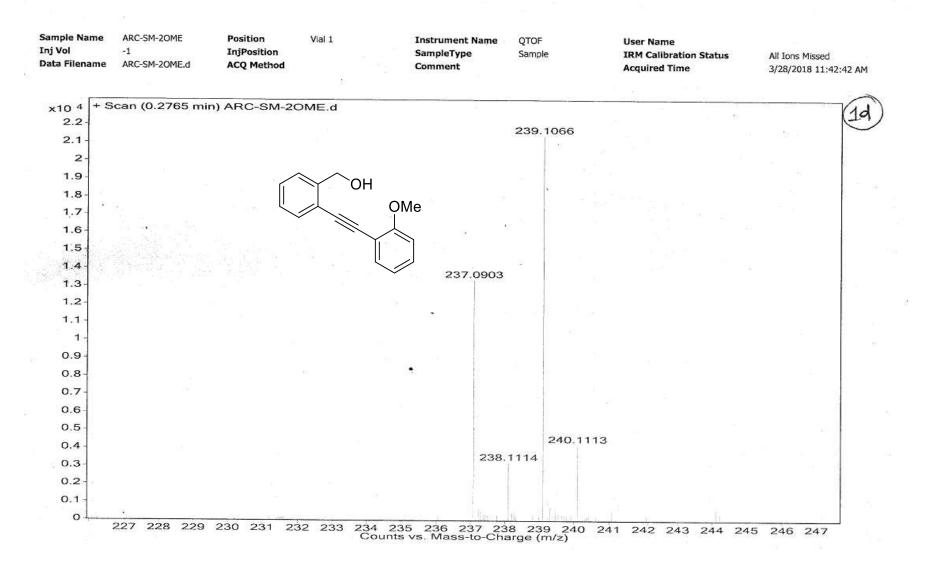
Archana K. Sahu, Ramanjaneyulu Unnava, Bipin K. Behera and Anil K. Saikia

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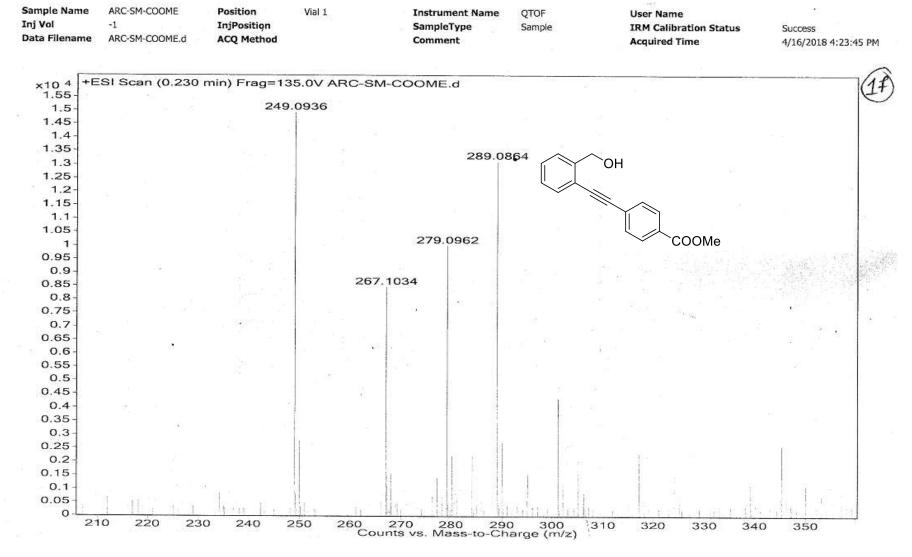
1. HRMS spectra of all new compounds

S1-S27

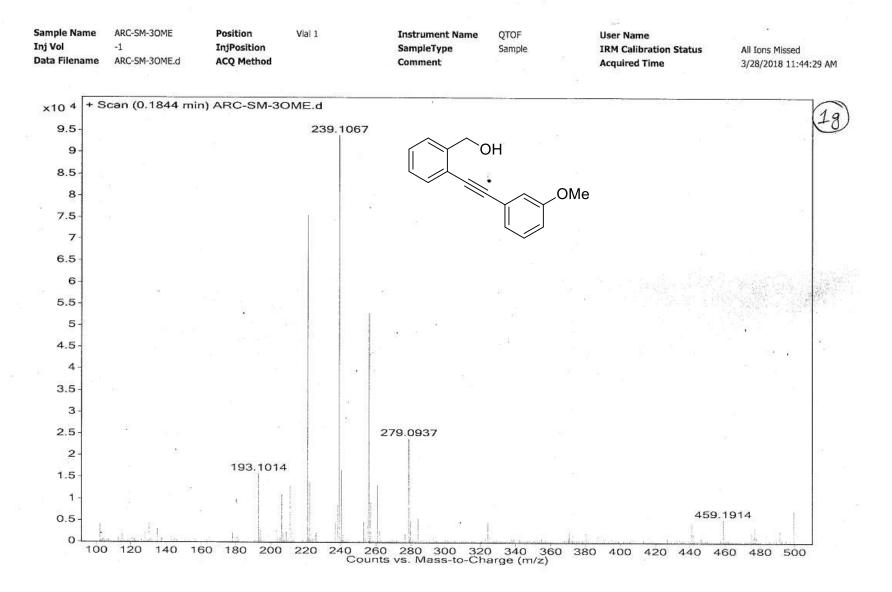
HRMS Spectrum of 1c



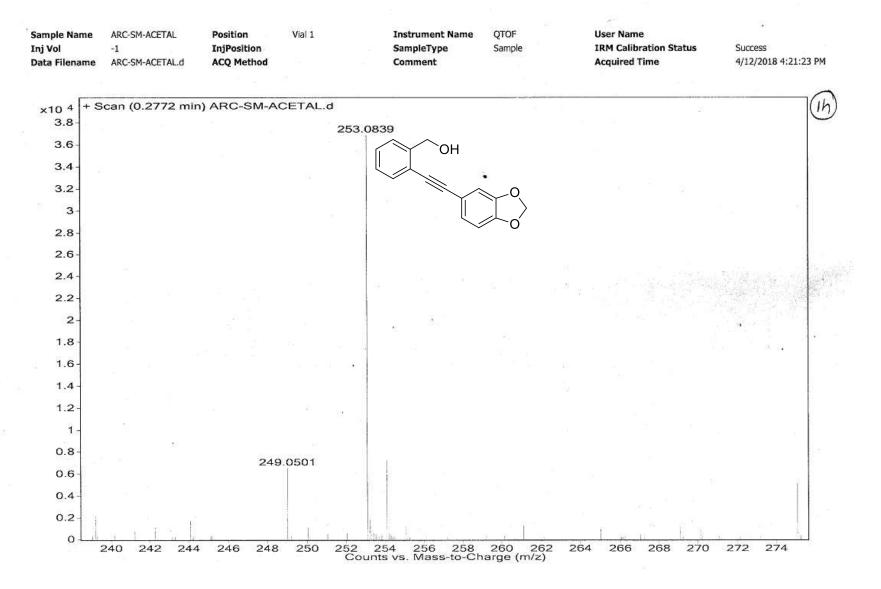
#### HRMS Spectrum of 1e



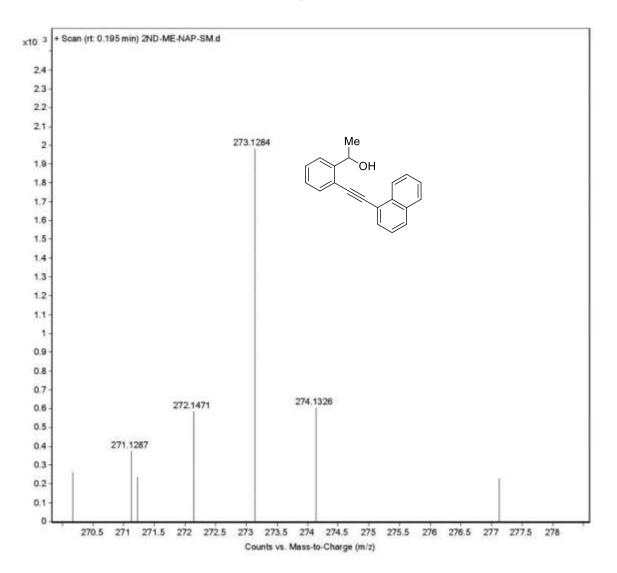
### HRMS Spectrum of 1f



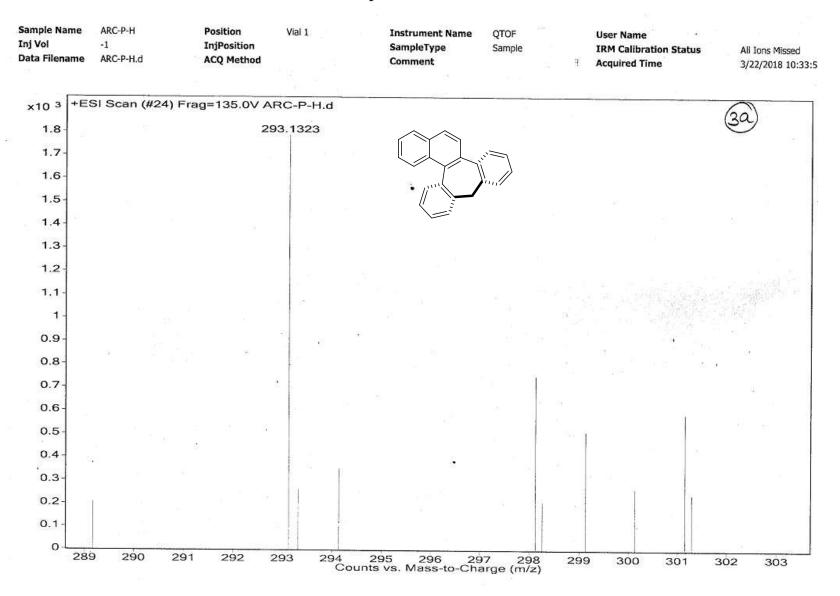
HRMS Spectrum of 1g



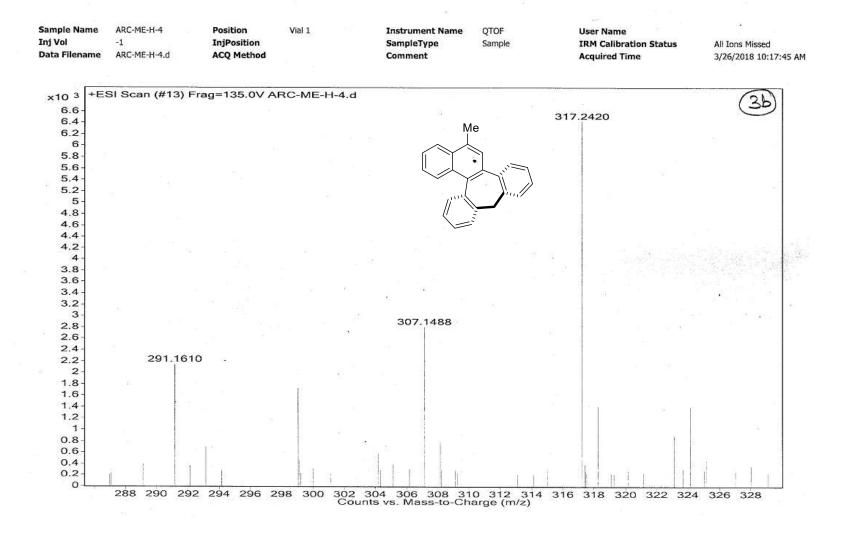
# HRMS Spectrum of 1n



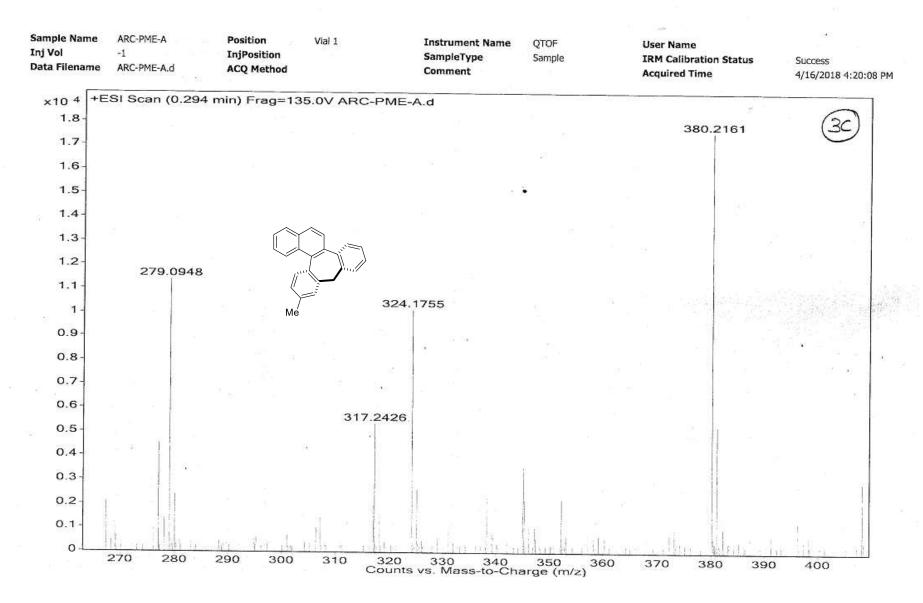
HRMS Spectrum of 3a



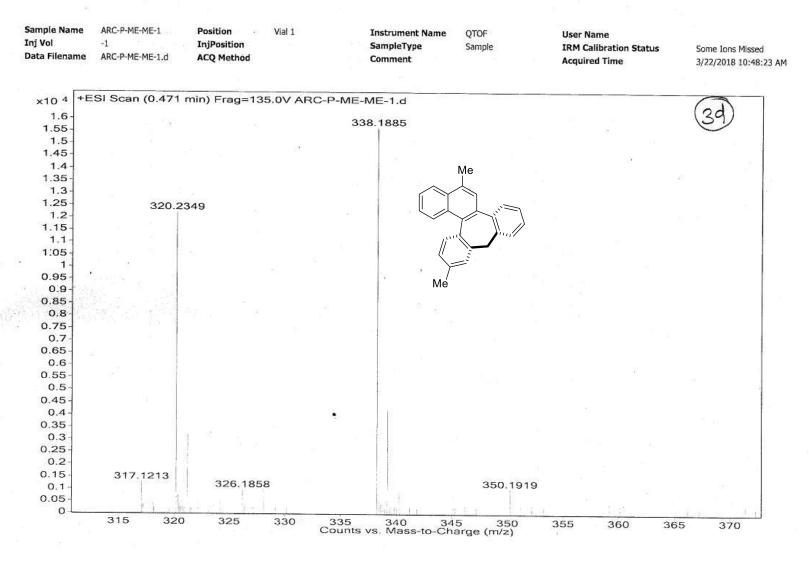
### HRMS Spectrum of 3b



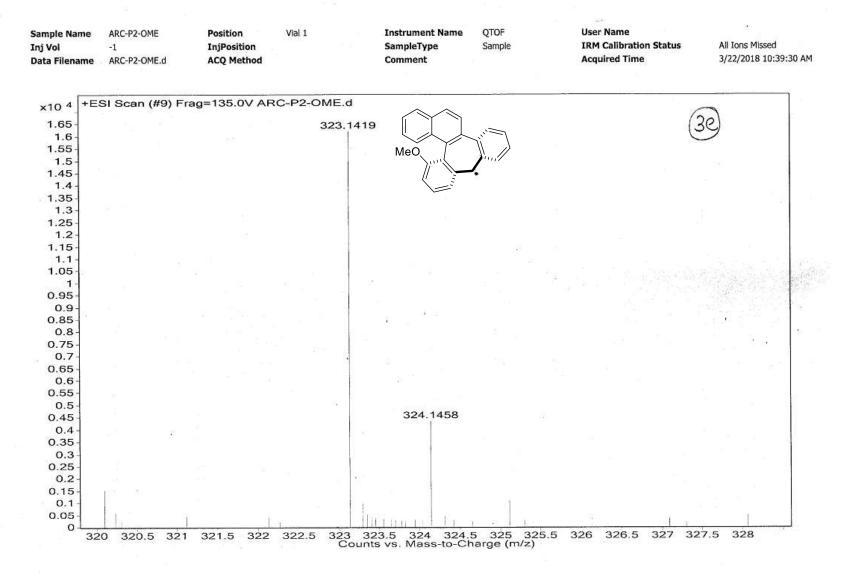
### HRMS Spectrum of 3c



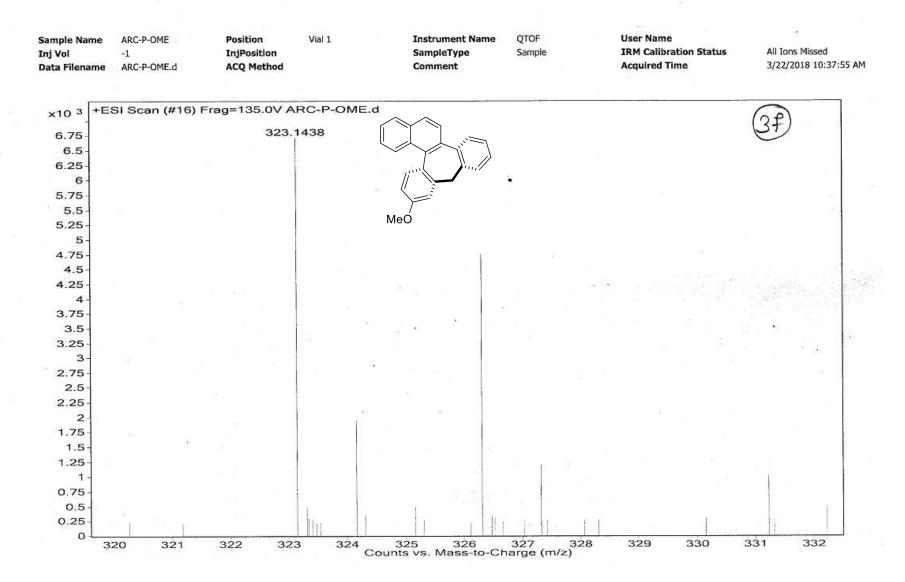
### HRMS Spectrum of 3d



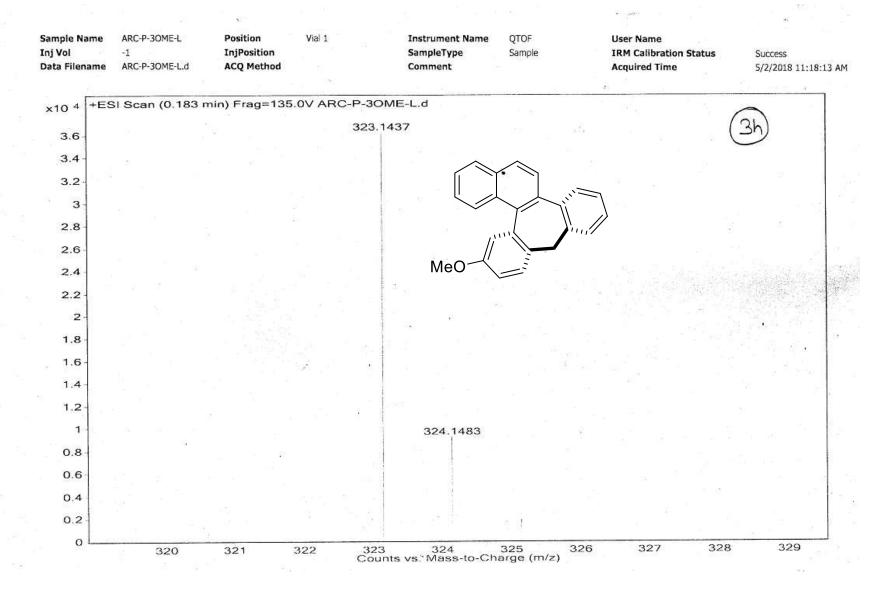
### HRMS Spectrum of 3e



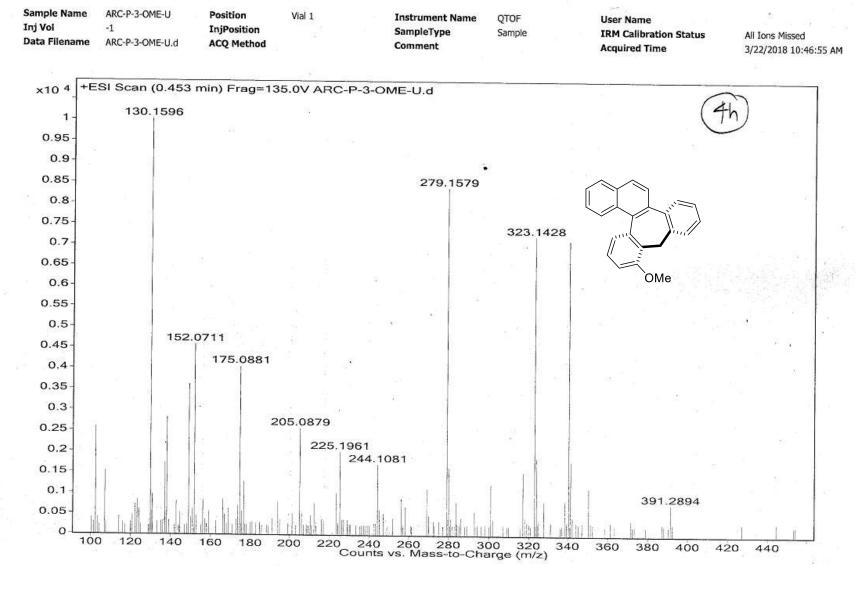
### HRMS Spectrum of 3f



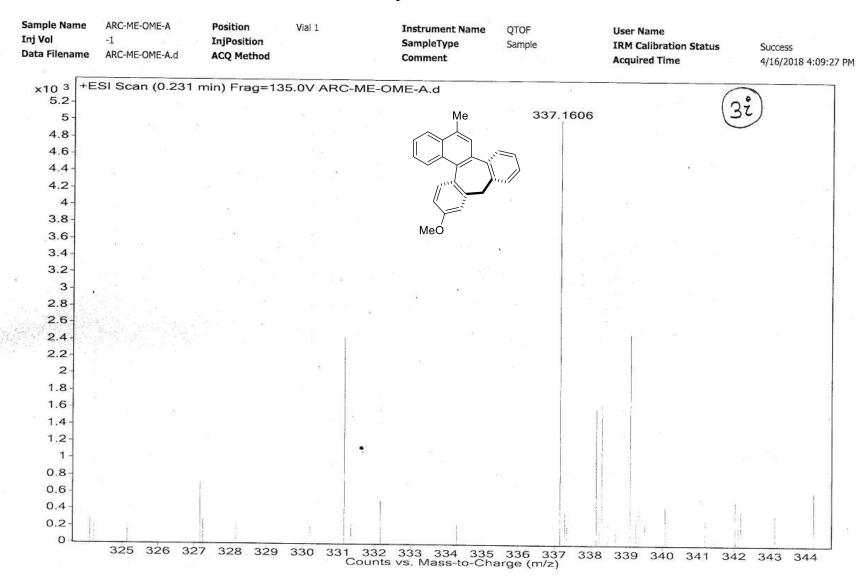
## HRMS Spectrum of 3h



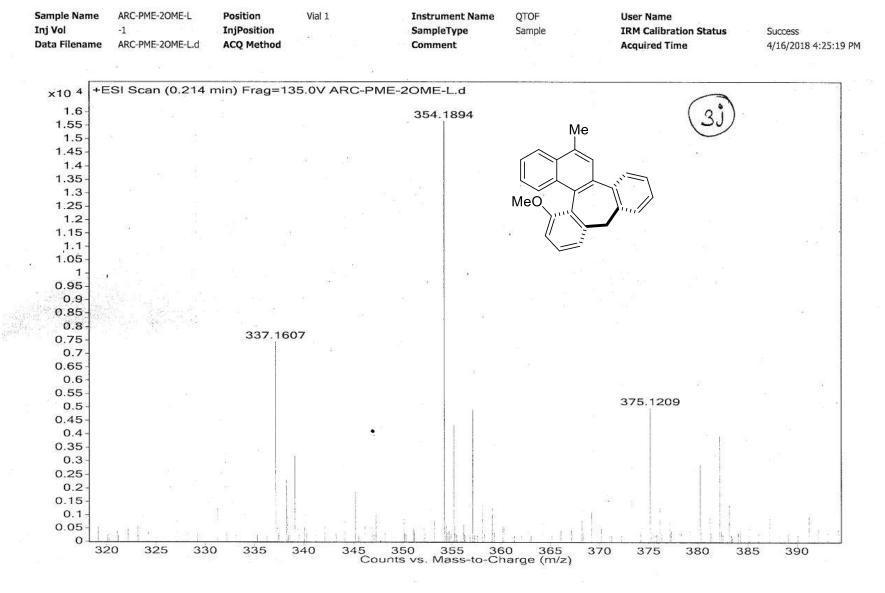
#### HRMS Spectrum of 4h



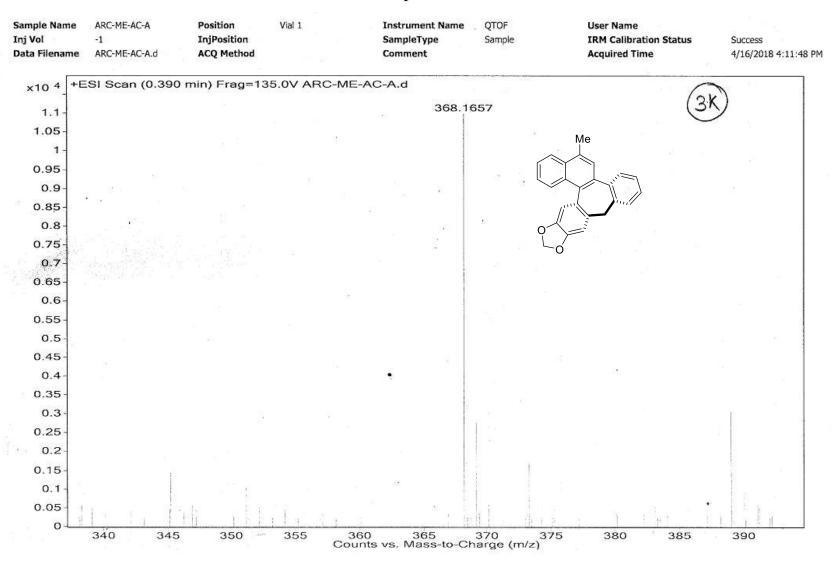
HRMS Spectrum of 3i



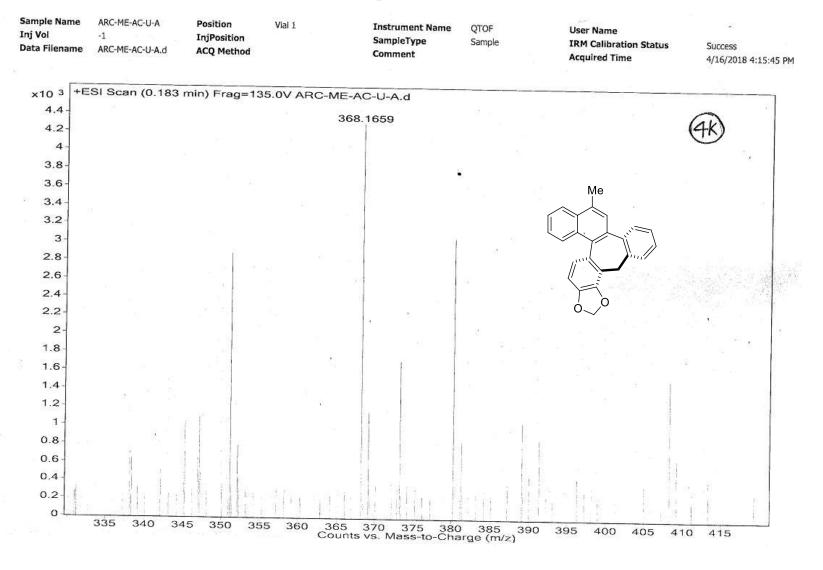
### HRMS Spectrum of 3j



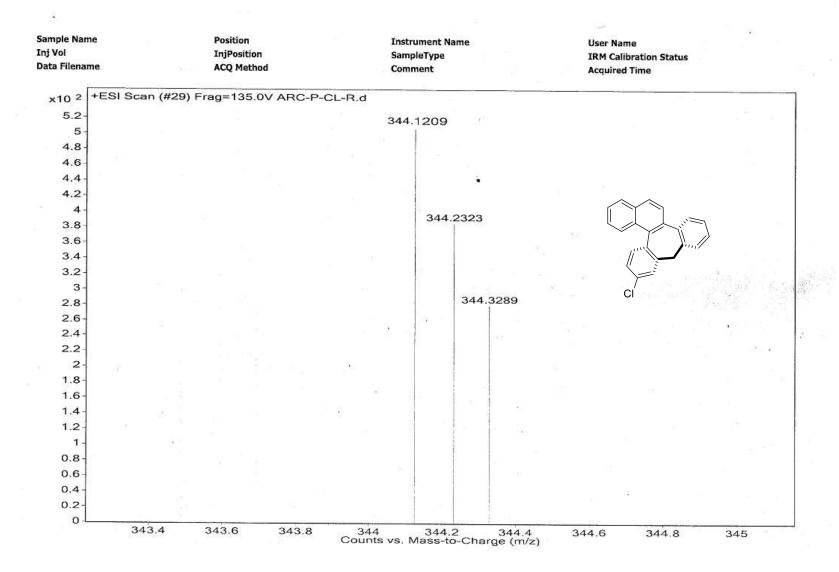
### HRMS Spectrum of 3k



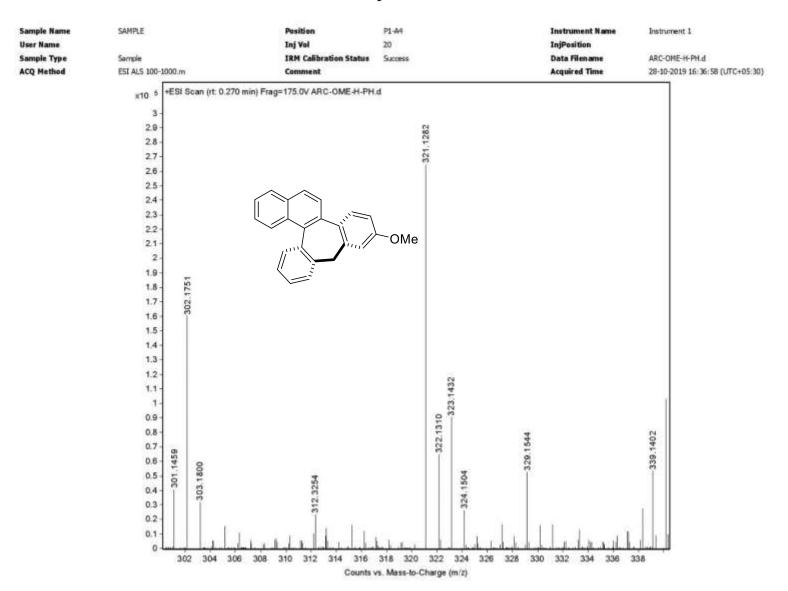
### HRMS Spectrum of 4k



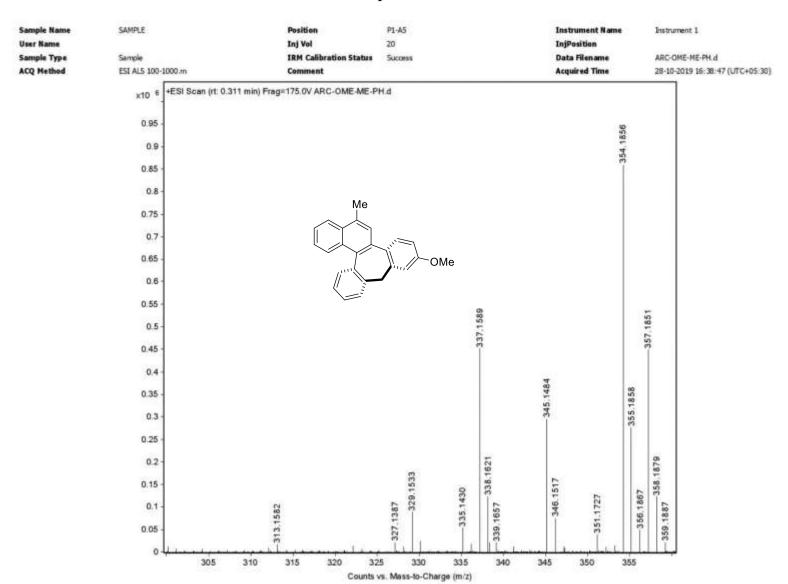
### HRMS Spectrum of 31



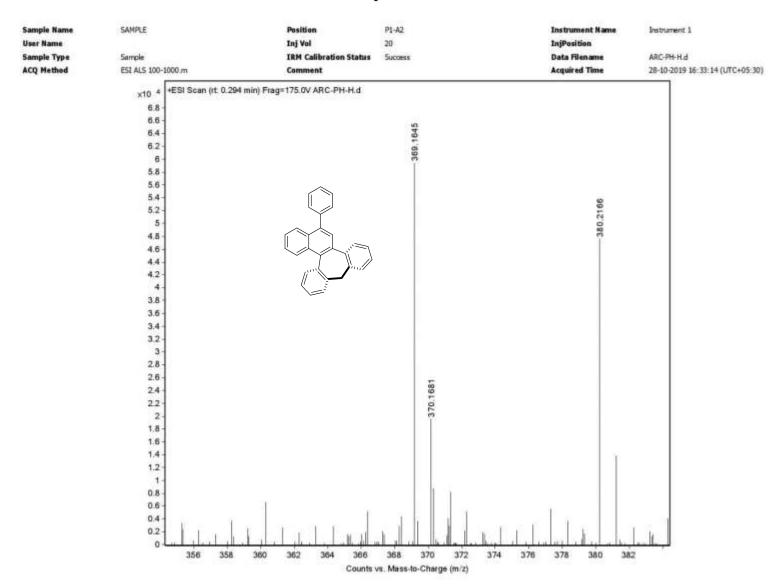
HRMS Spectrum of 3m



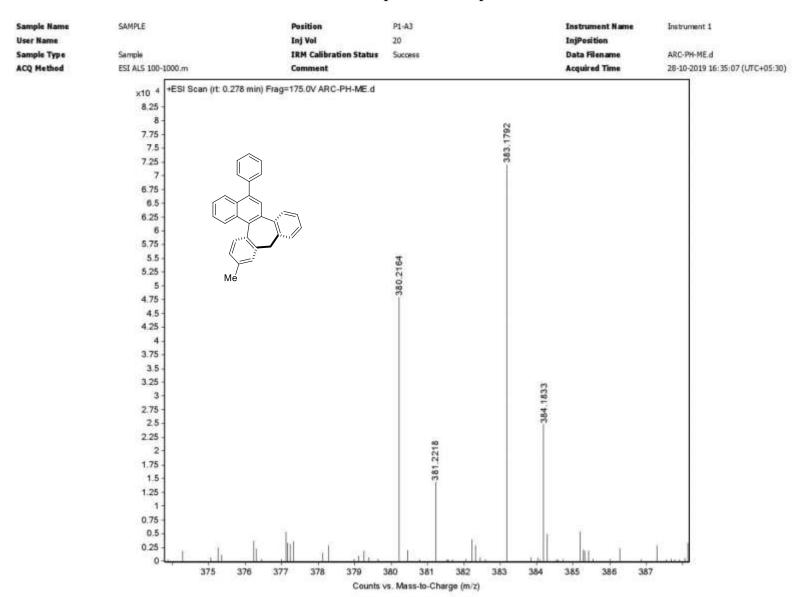
HRMS Spectrum of 3n



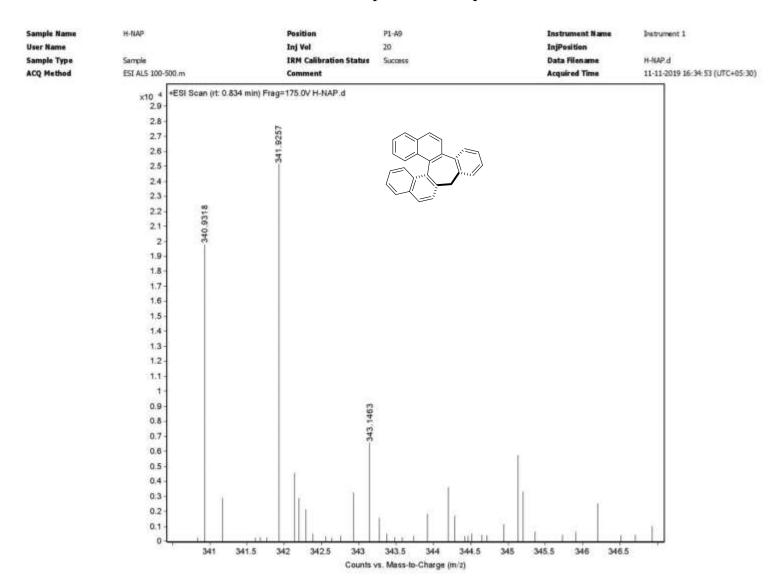
HRMS Spectrum of 3o



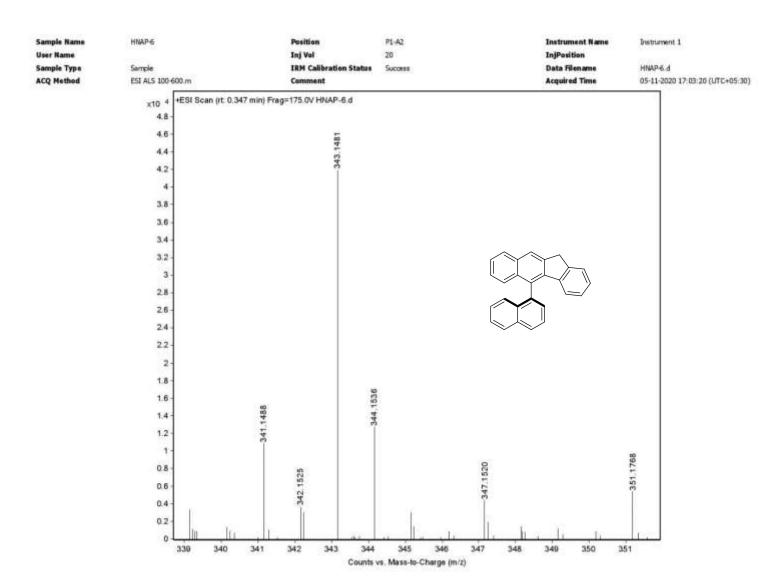
### HRMS Spectrum of 3p



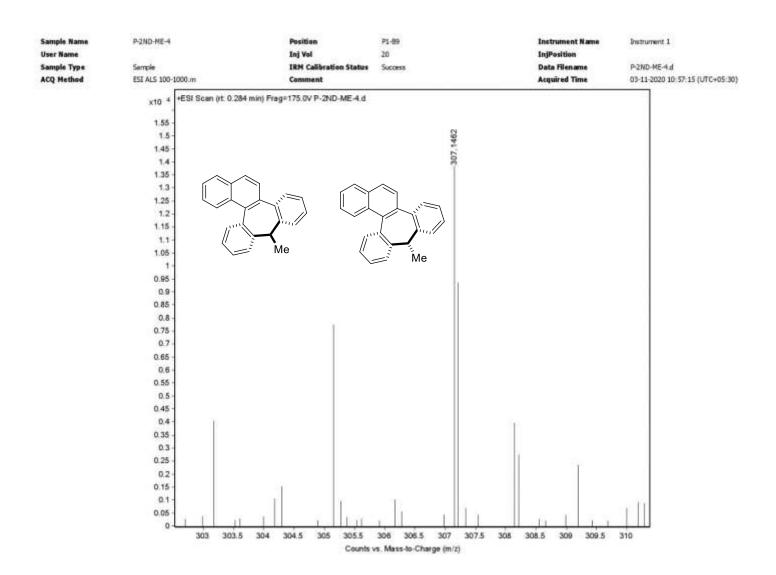
HRMS Spectrum of 3q



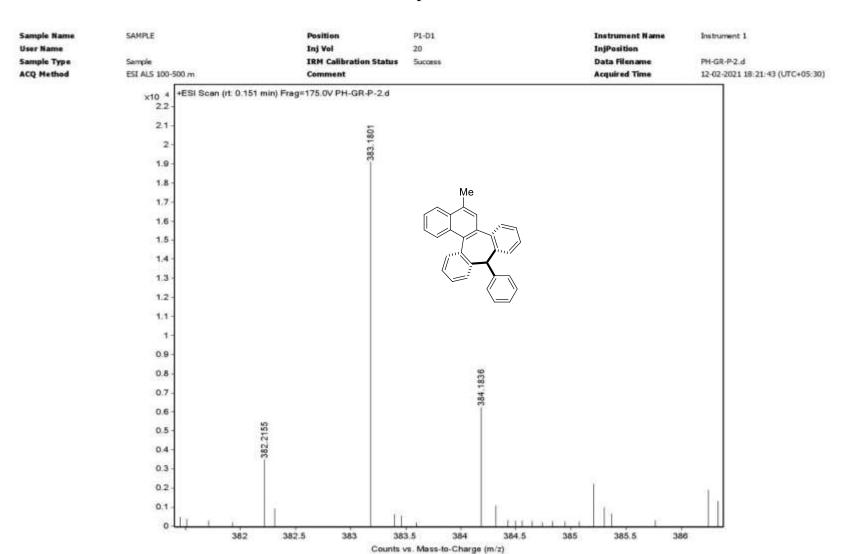
HRMS Spectrum of 4q



HRMS Spectrum of 3r and 4r



HRMS Spectrum of 3t



# HRMS Spectrum of 3u and 4u

