

Dual Role of Polyphosphoric Acid-Activated Nitroalkanes in Oxidative peri-Annulations: Efficient Synthesis of 1,3,6,8-Tetraazapyrenes

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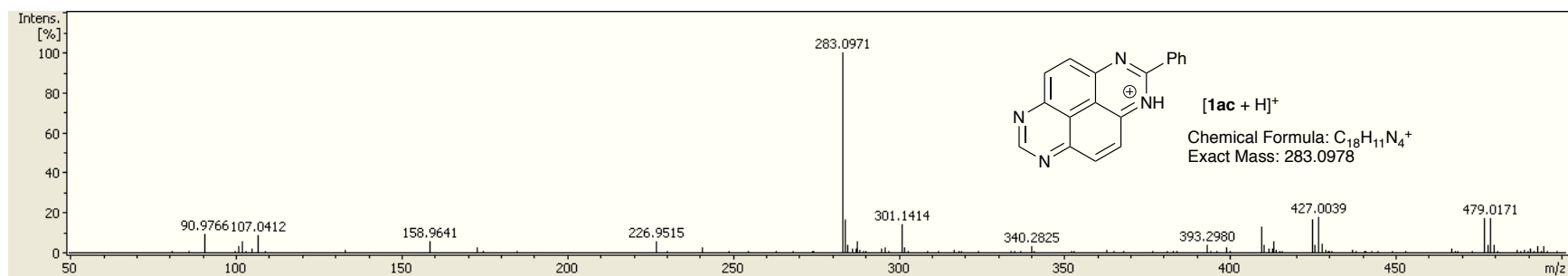
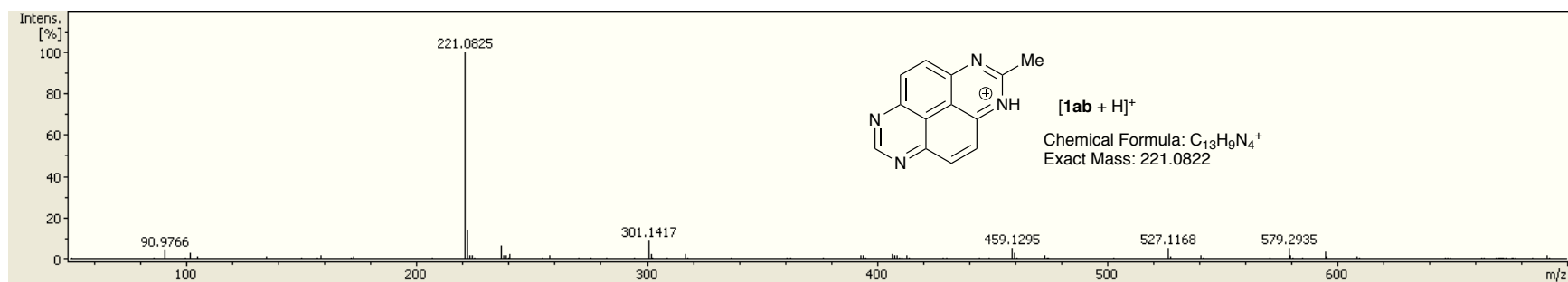
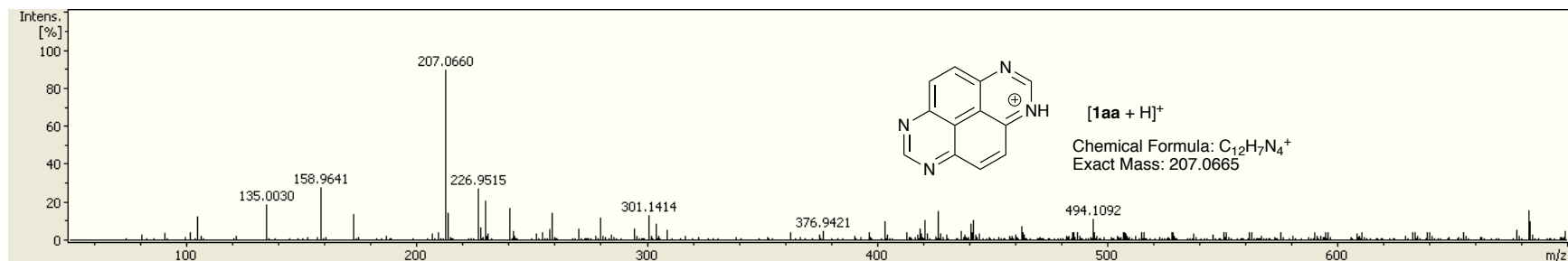
Optimization of Reaction Conditions

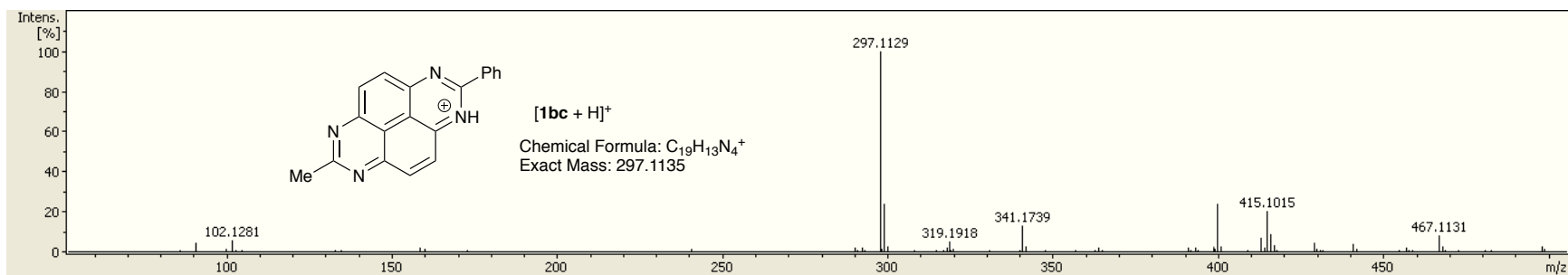
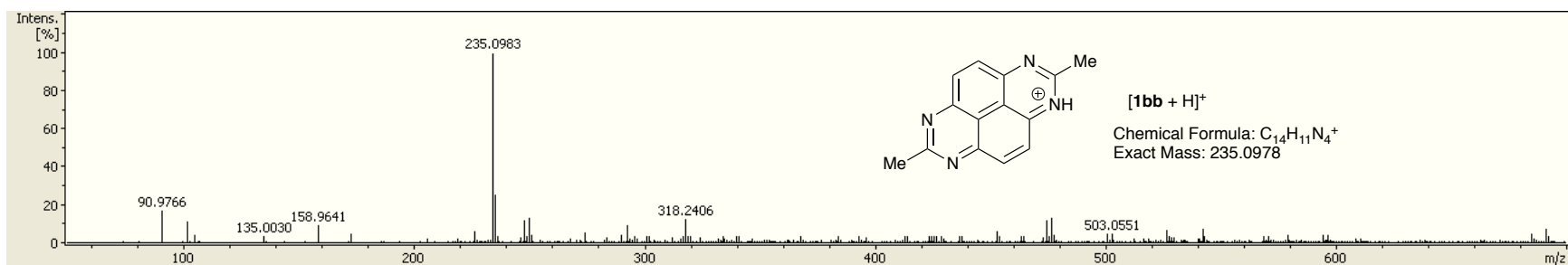
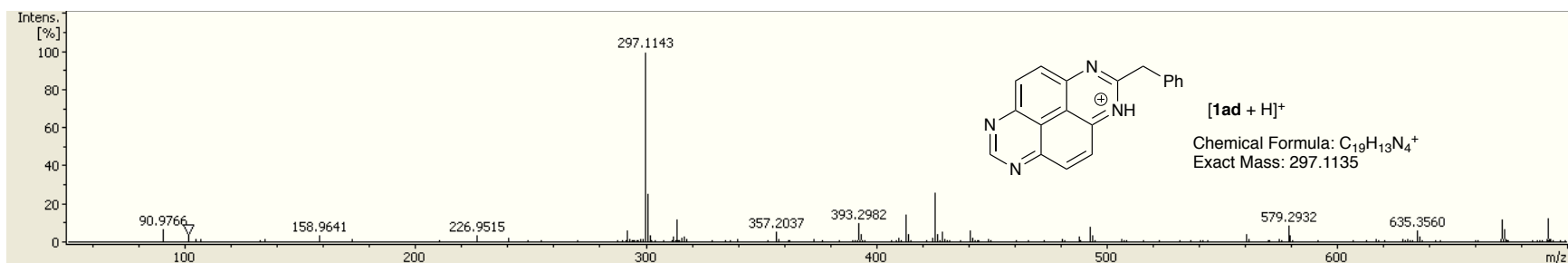
Table S1. Optimization of reaction condition for oxidative peri-annulation of 2-methyl-1H-perimidine-6,7-diamine (**4b**) with nitroethane (**10b**).

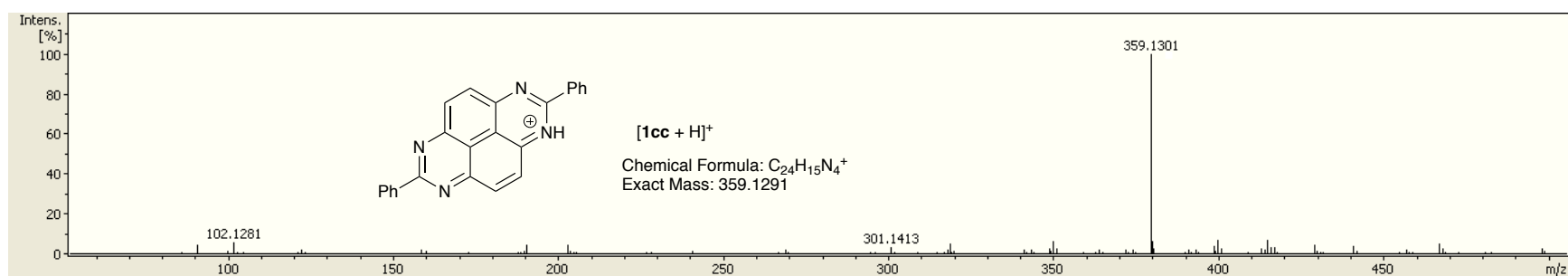
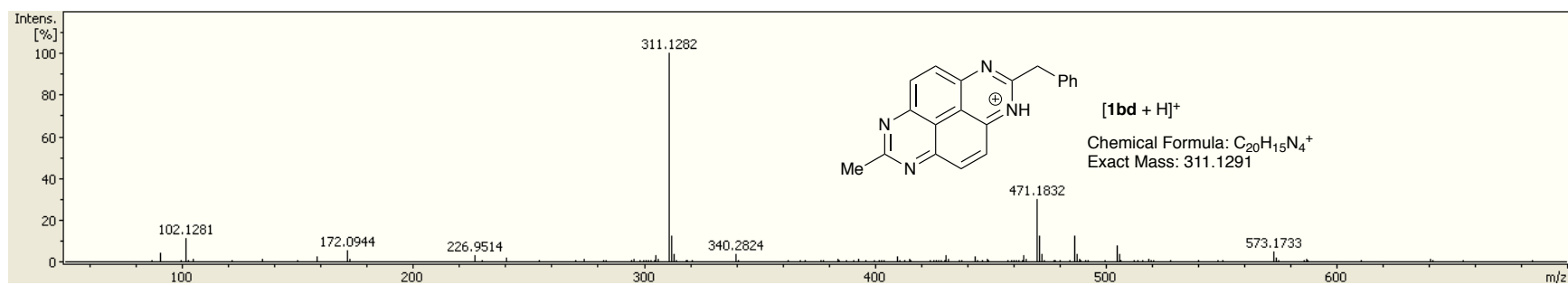
	Temperature, °C	Time, h	10b:4b ratio	Yield, % ^a
1	110	3	1/1	62
2	110	2	2/1	65
3	110	3	2/1	78
4	110	4	2/1	78
5	110	3	3/1	54
6	100	3	2/1	34
7	100	5	2/1	64

a) Isolated yields of purified compound **1bb** are provided. Experiments on optimization were performed according to the general procedure (method A, see the Experimental part in the Main Text), varying the temperature, reaction time and the reagents ratio as shown in Table S1.

HRMS charts







NMR Spectral Charts

