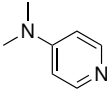
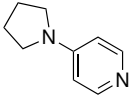


**4a**

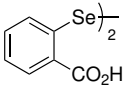
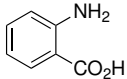


**DMAP**

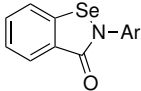


**4b**

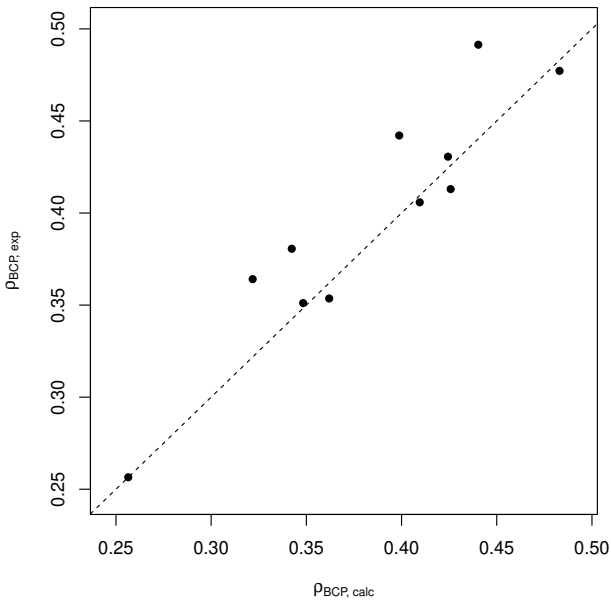


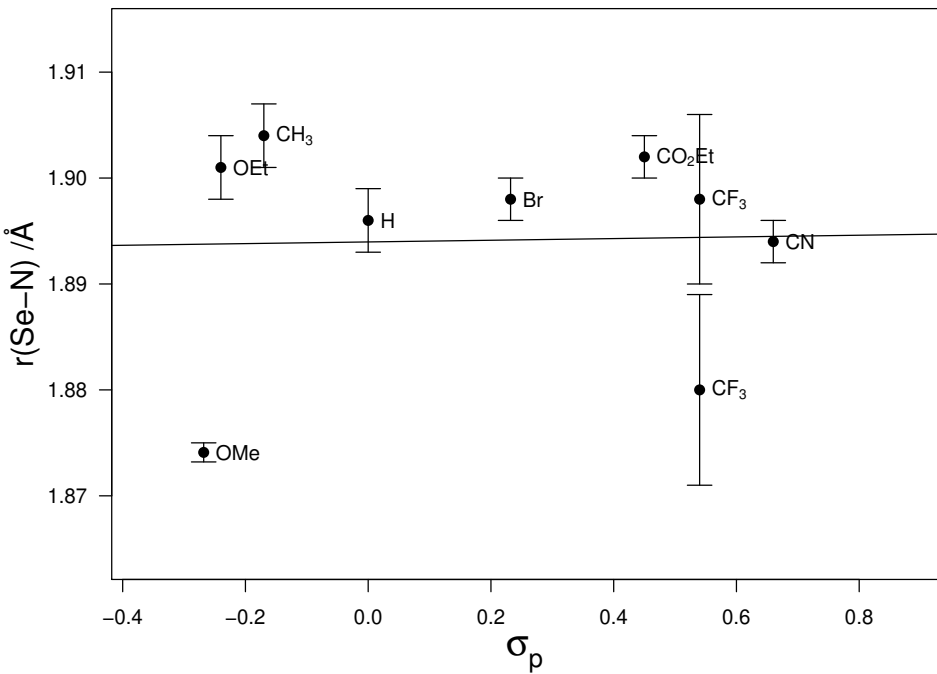


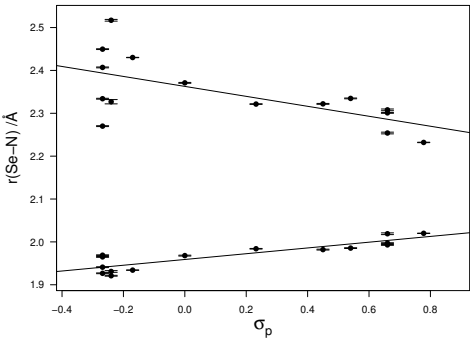
**5**

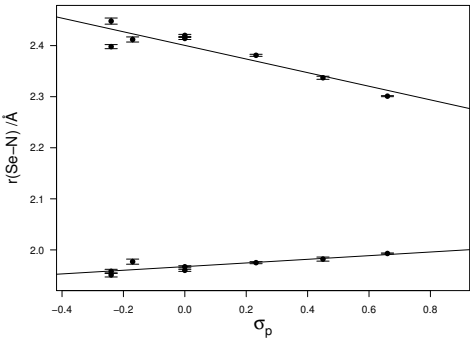


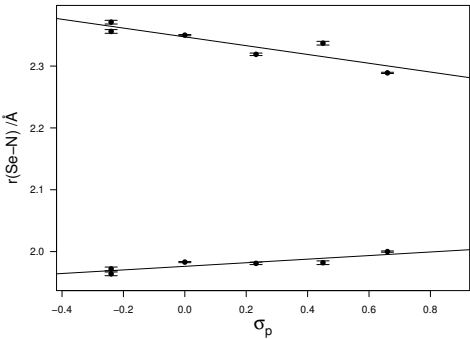
**1**

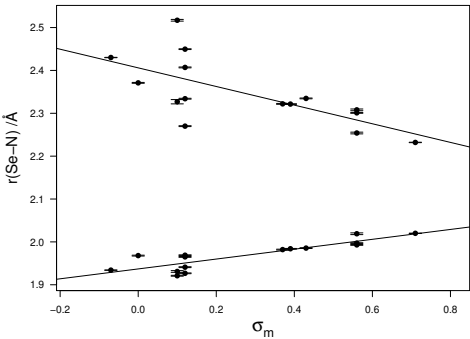


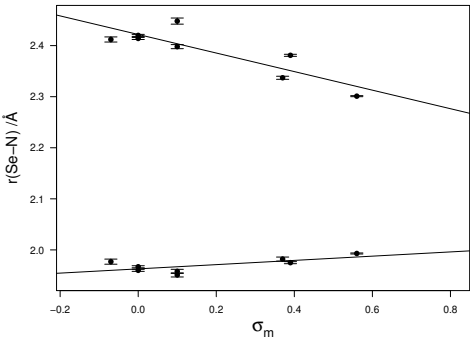




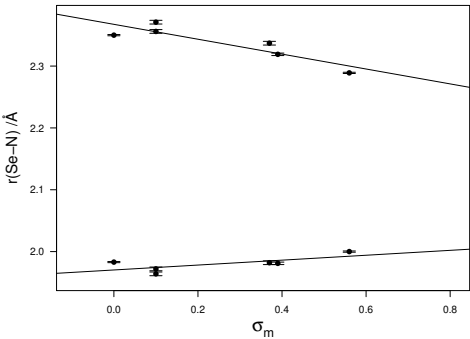


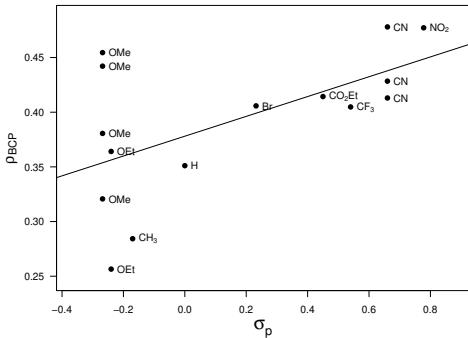


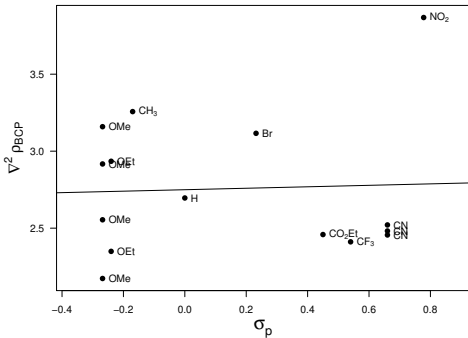


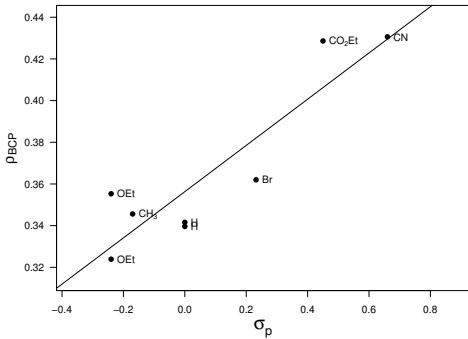


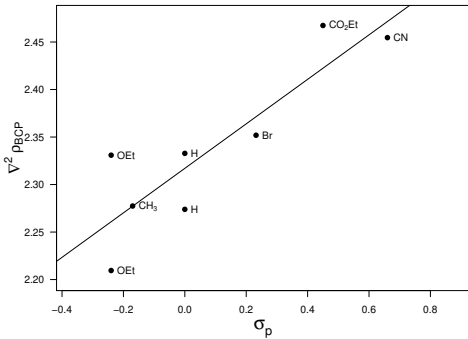


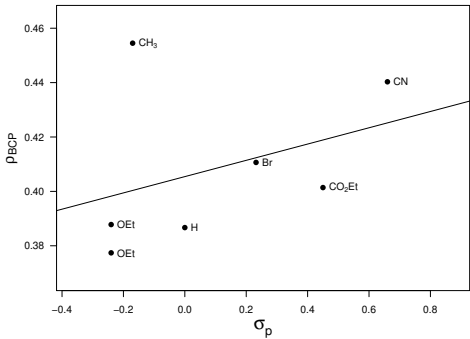


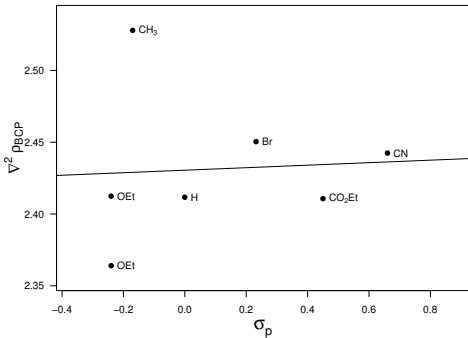


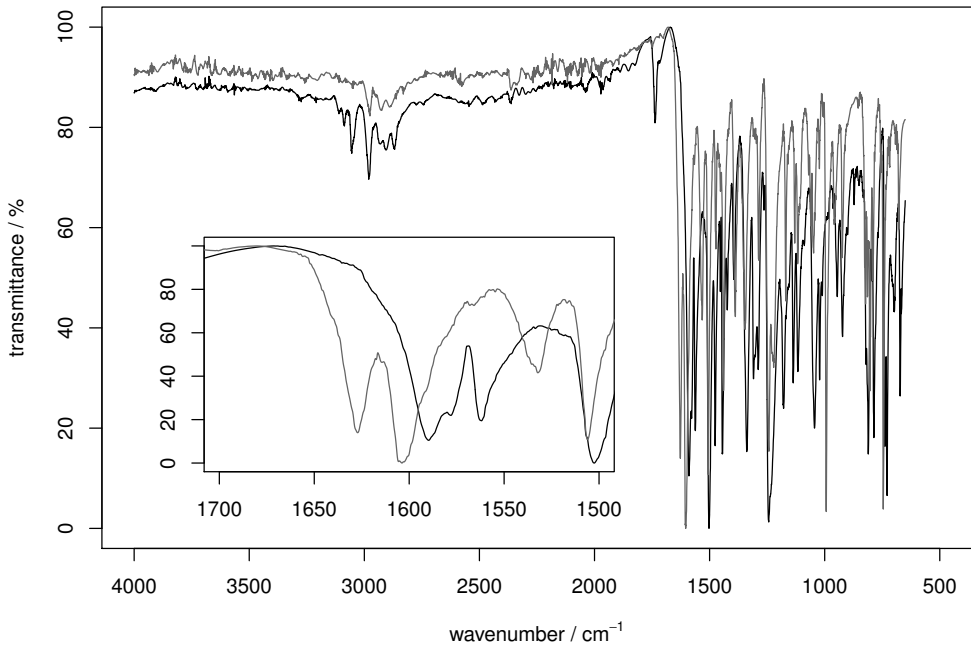




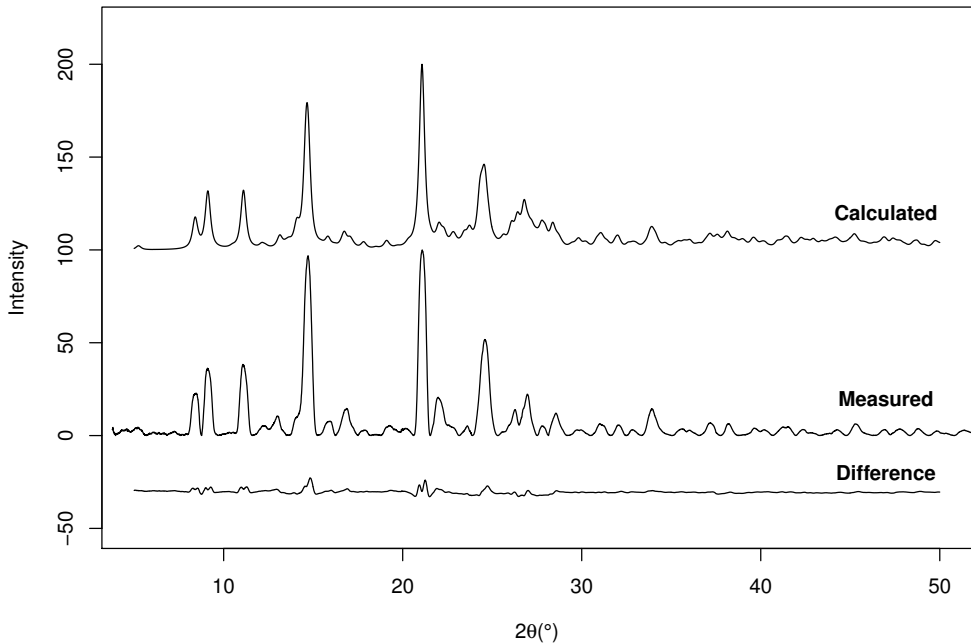


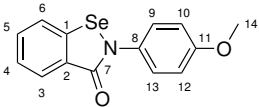
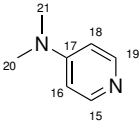


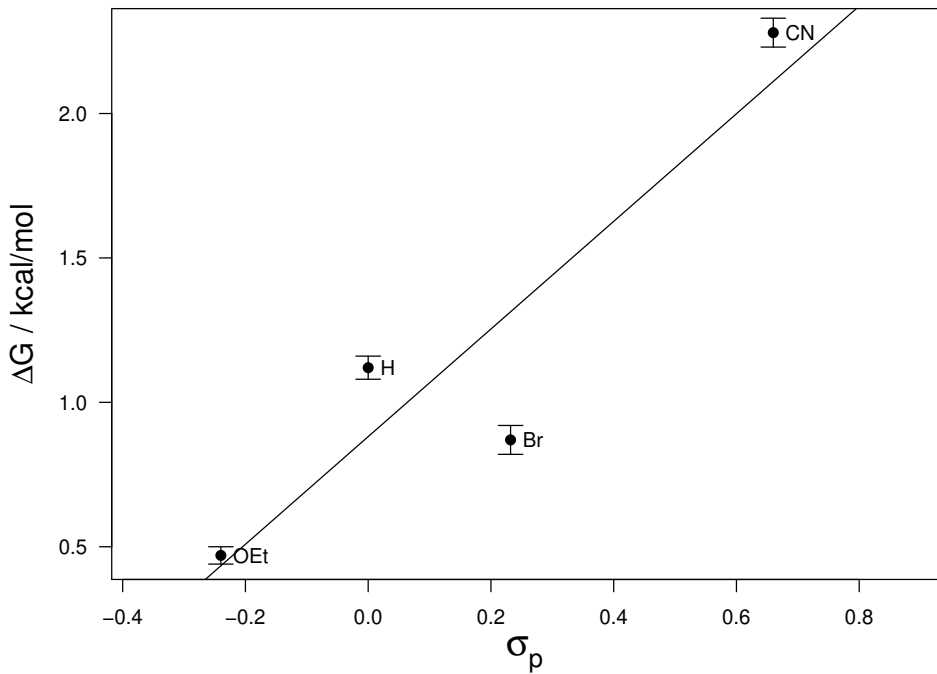


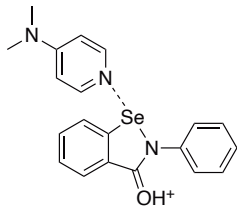






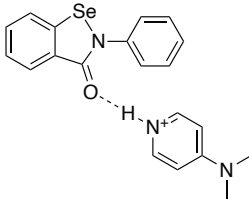




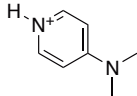


$m/z$ : 398.08

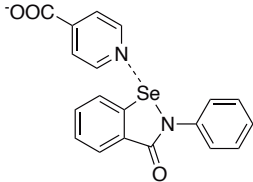
or



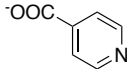
$m/z$ : 398.08



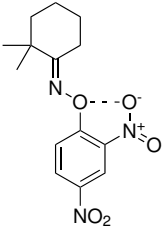
$m/z$ : 123.09



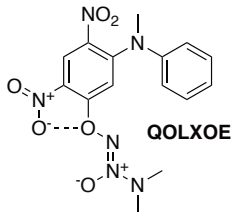
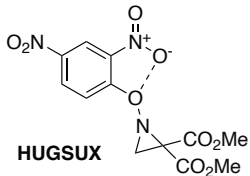
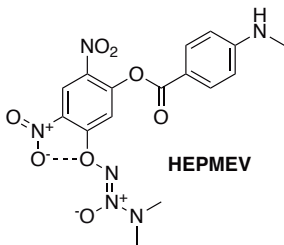
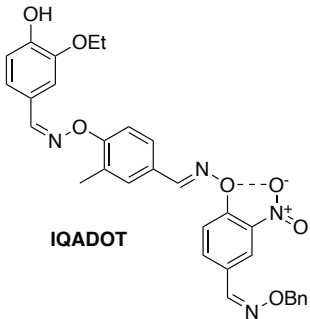
m/z: 397.01

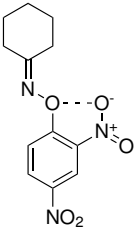


m/z: 122.02

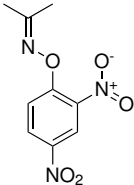


**7**



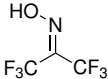
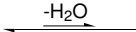
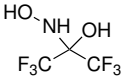


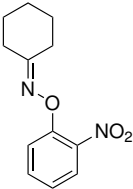
**8**



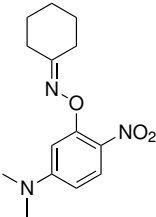
**9**



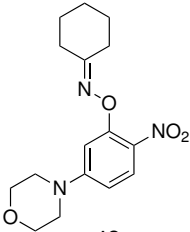




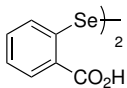
10



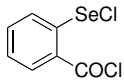
11



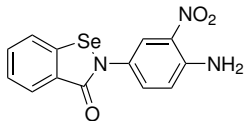
**12**



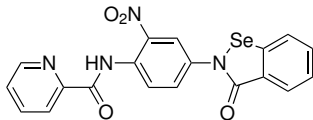
**5**



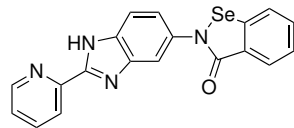
**6**



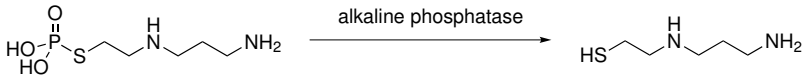
**16**

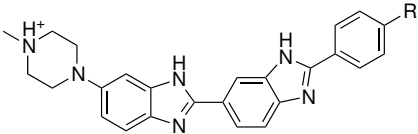


**15**



**14**

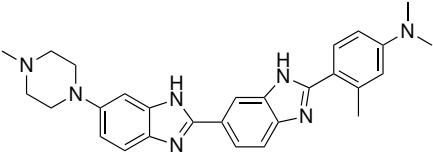




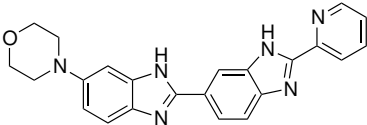
Hoechst 33258 R: OH

Hoechst 33342 R: OCH<sub>2</sub>CH<sub>3</sub>

Hoechst 34580 R: N(CH<sub>3</sub>)<sub>2</sub>

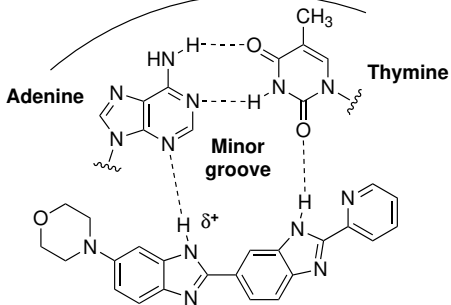




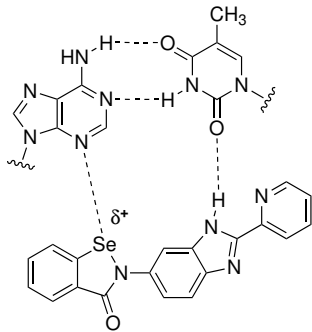


13

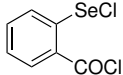
**Major groove**



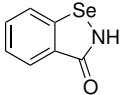
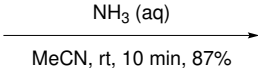
**13**



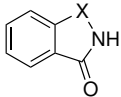
**14**



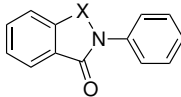
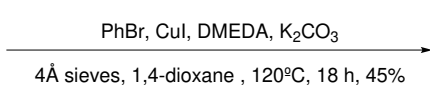
**6**



**1b**

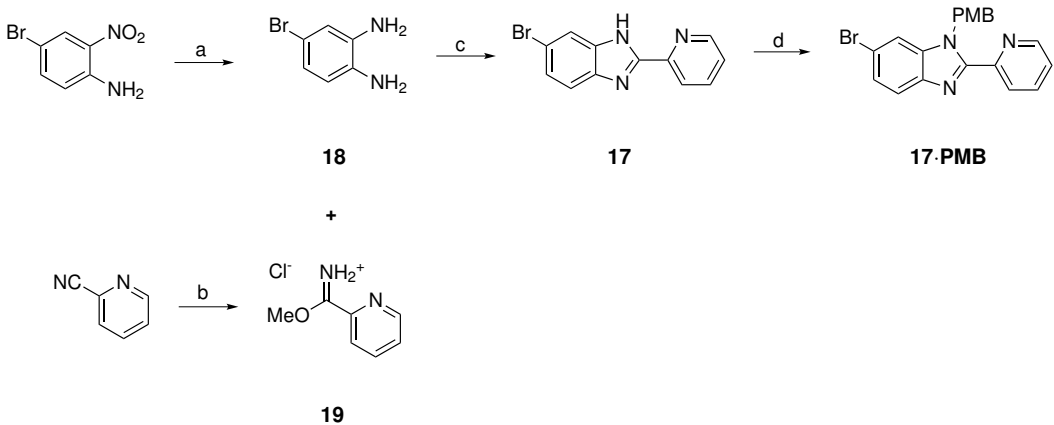


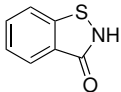
**1b** and **1b-S**



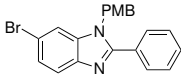
**1** and **1-S**

$X = S, Se$





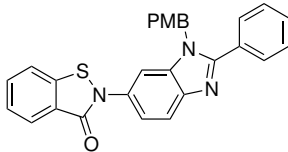
**1b-S**



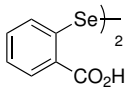
**20-PMB**

CuI, DMEDA, K<sub>2</sub>CO<sub>3</sub>

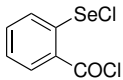
4 Å sieves, 1,4-dioxane, 120°C, 24 h, 48%



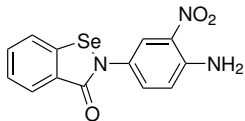
**21-S-PMB**



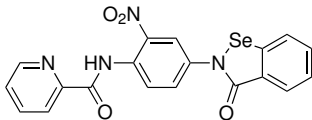
**5**



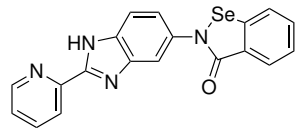
**6**



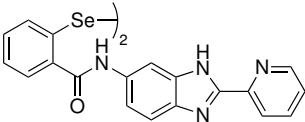
**16**



**15**



**14**



22



