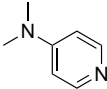
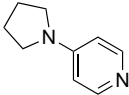


**4a**

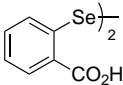
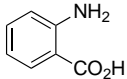


**DMAP**

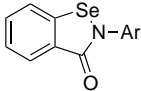


**4b**

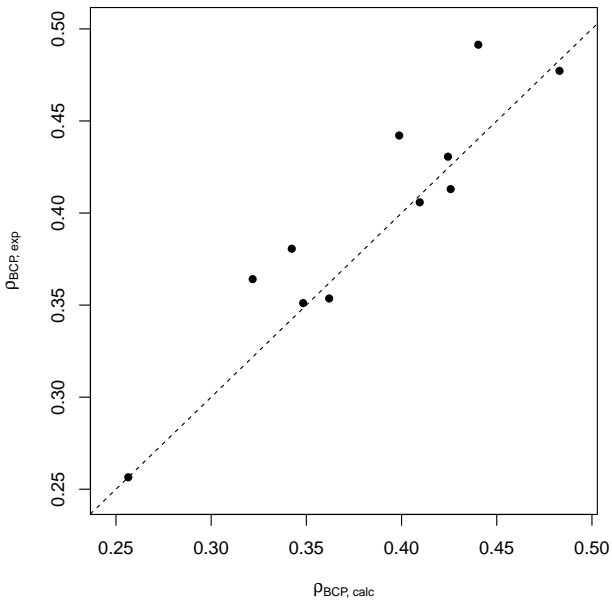


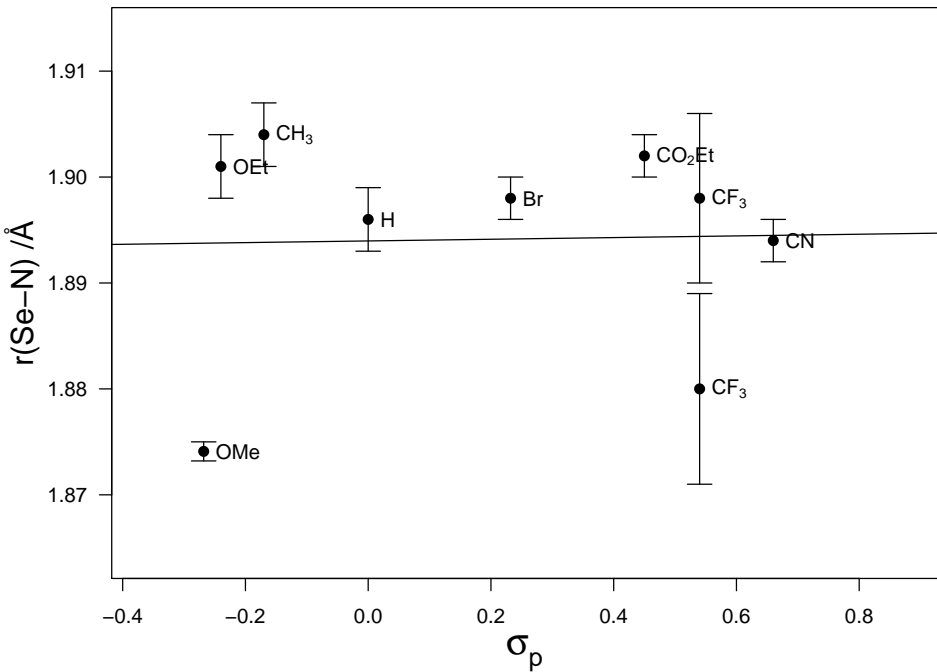


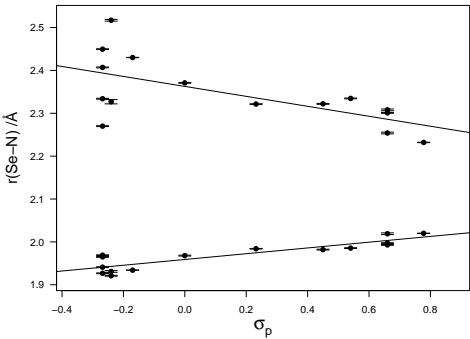
**5**

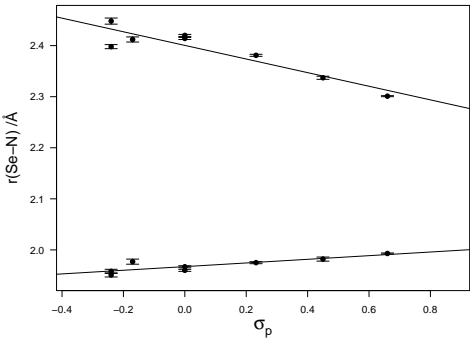


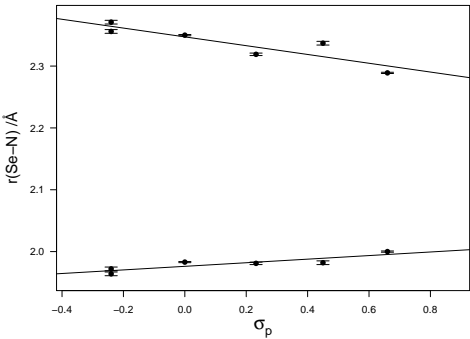
**1**

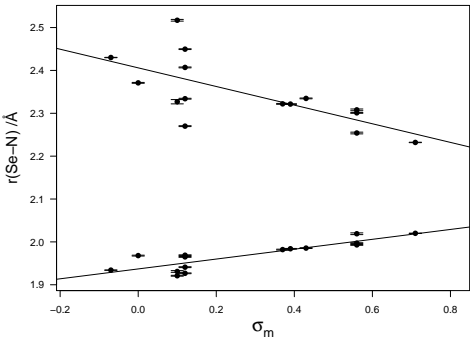


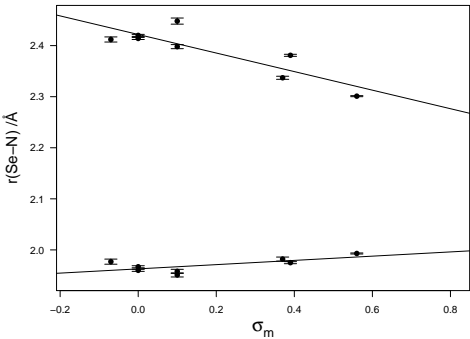




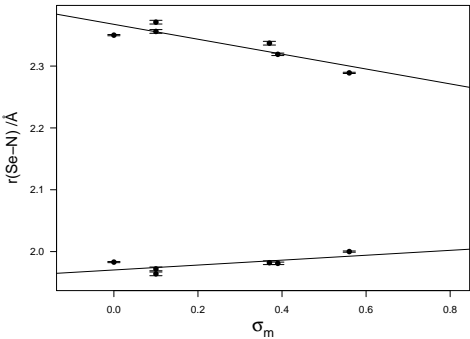


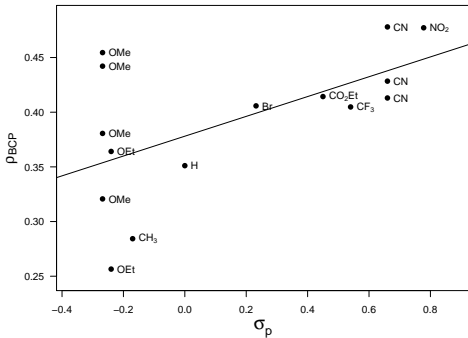


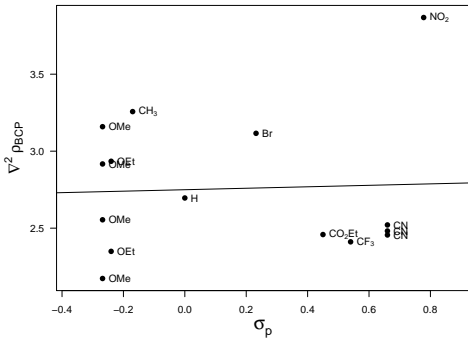


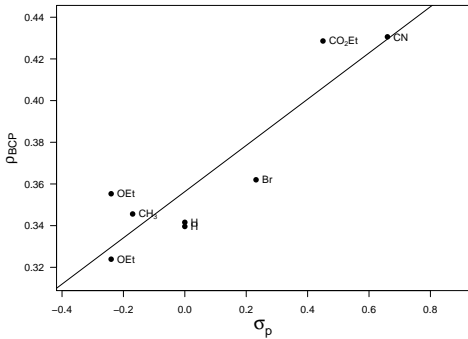


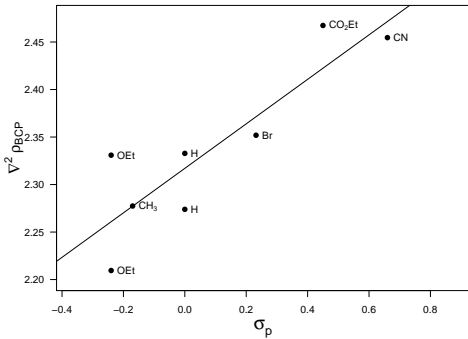


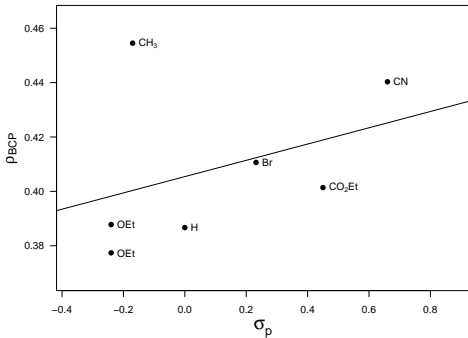


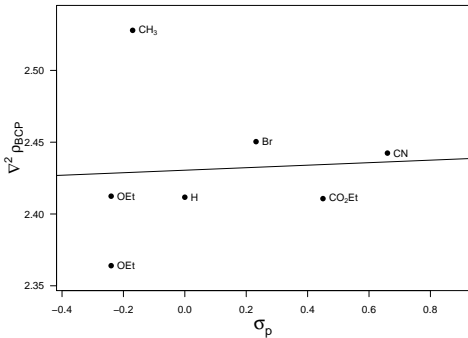


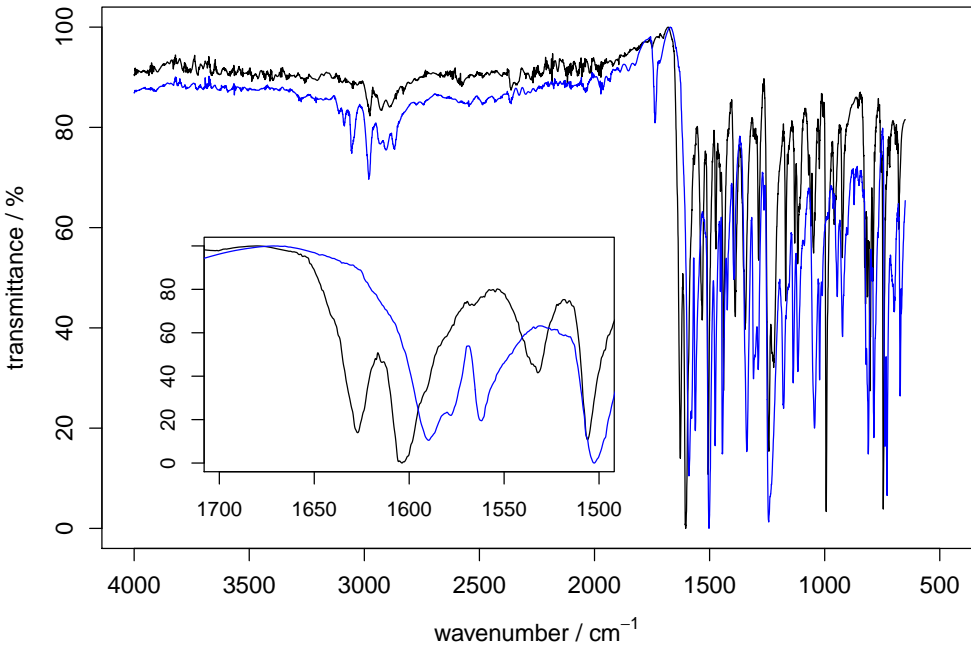




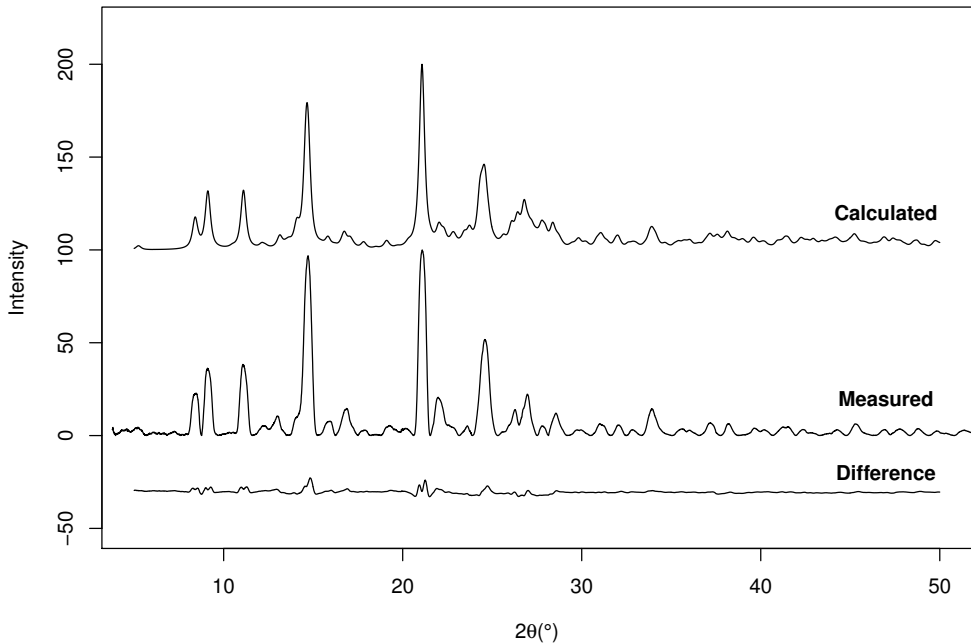


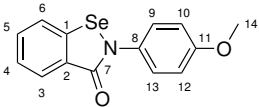
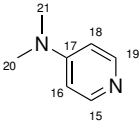


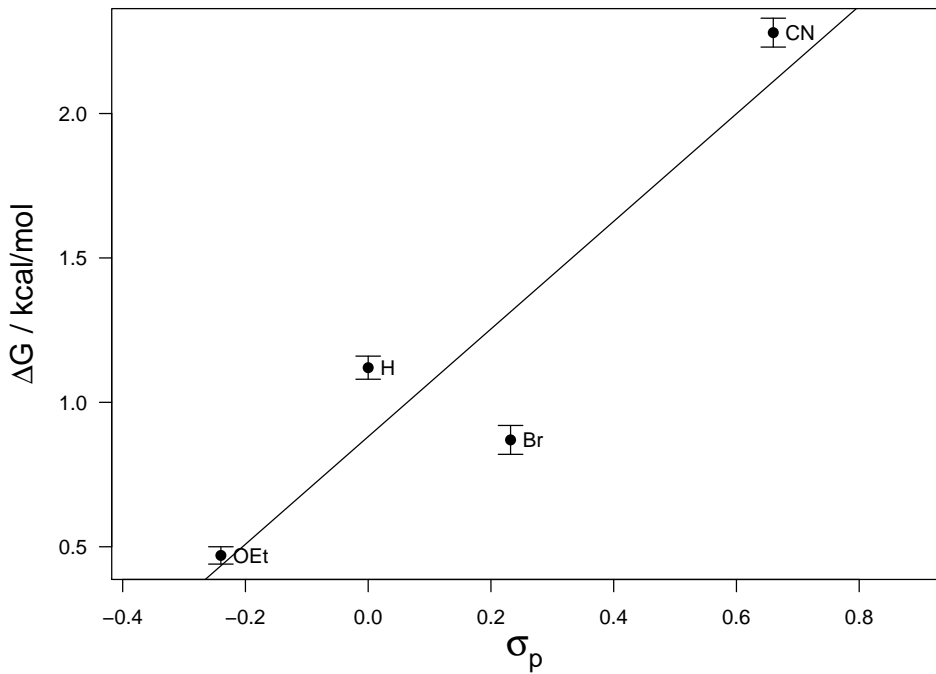


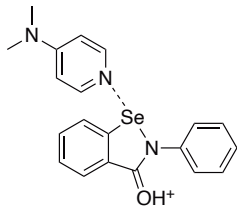






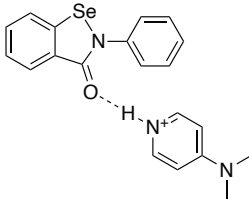




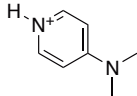


m/z: 398.08

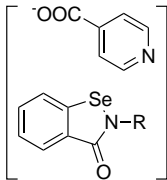
or



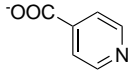
m/z: 398.08



m/z: 123.09



$m/z$ : 397.01

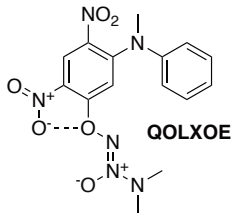
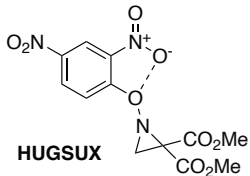
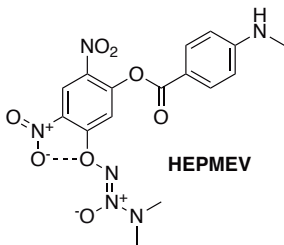
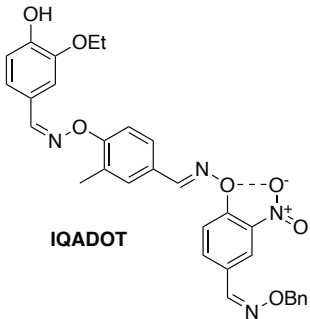


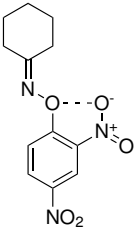
$m/z$ : 122.02

**1**       $R = \text{Ph}$

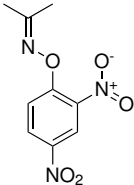
**1a**      $R = \text{Bn}$





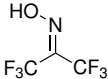
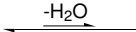
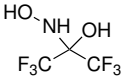


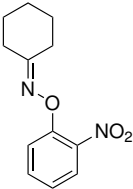
**8**



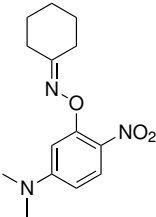
**9**



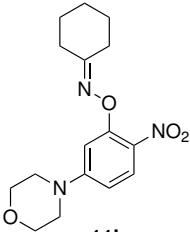




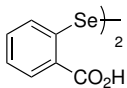
10



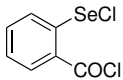
**11a**



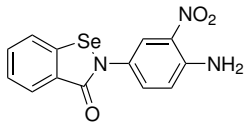
**11b**



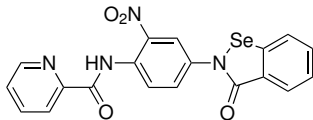
**5**



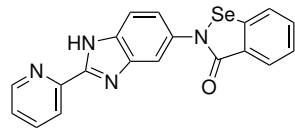
**6**



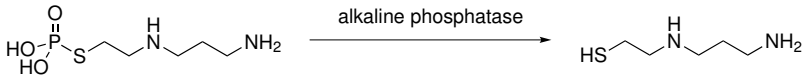
**15**

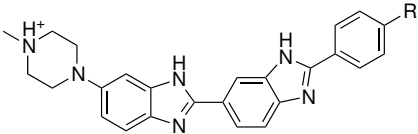


**14**



**13**

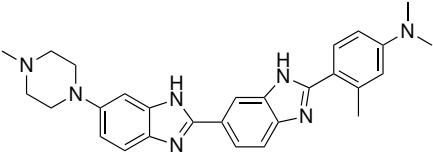




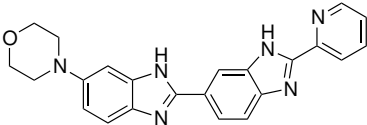
Hoechst 33258 R: OH

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

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

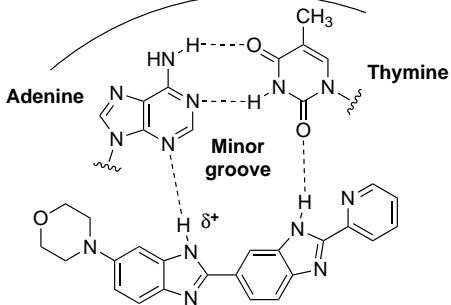




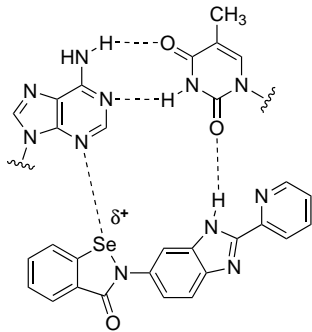


**12**

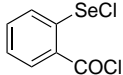
**Major groove**



**12**



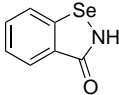
**13**



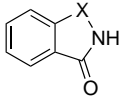
**6**

NH<sub>3</sub> (aq)

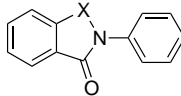
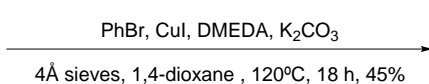
MeCN, rt, 10 min, 87%



**1b**

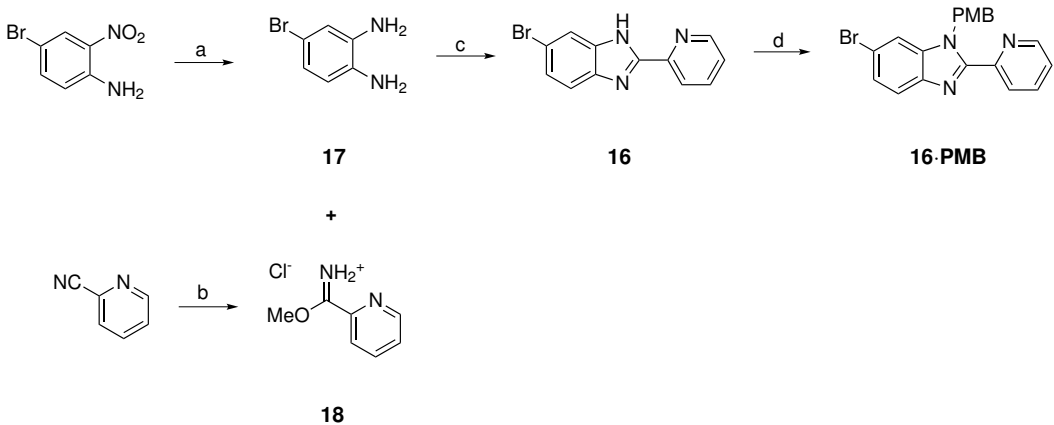


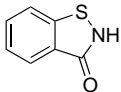
**1b and 1b-S**



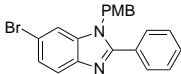
**1 and 1-S**

X = S, Se





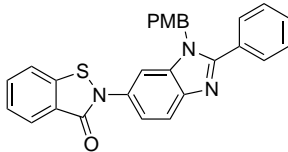
**1b·S**



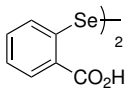
**19·PMB**

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

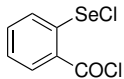
4 Å sieves, 1,4-dioxane, 120°C, 24 h, 48%



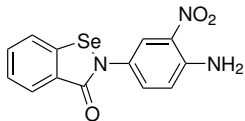
**20·S·PMB**



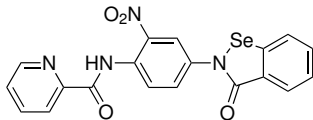
**5**



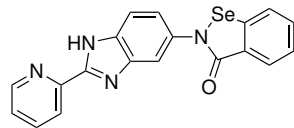
**6**



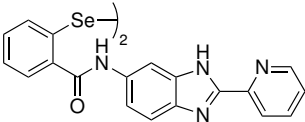
**15**



**14**



**13**



21



