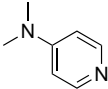
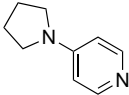


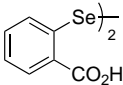
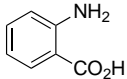
**4b**



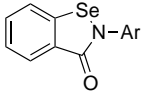
**DMAP**



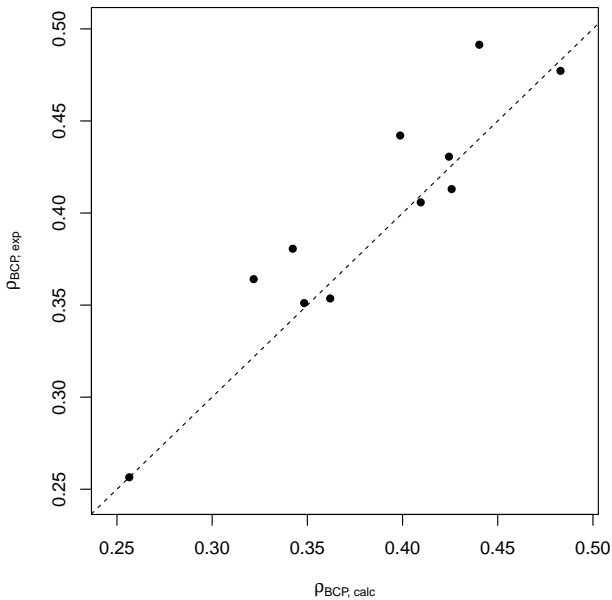
**4a**

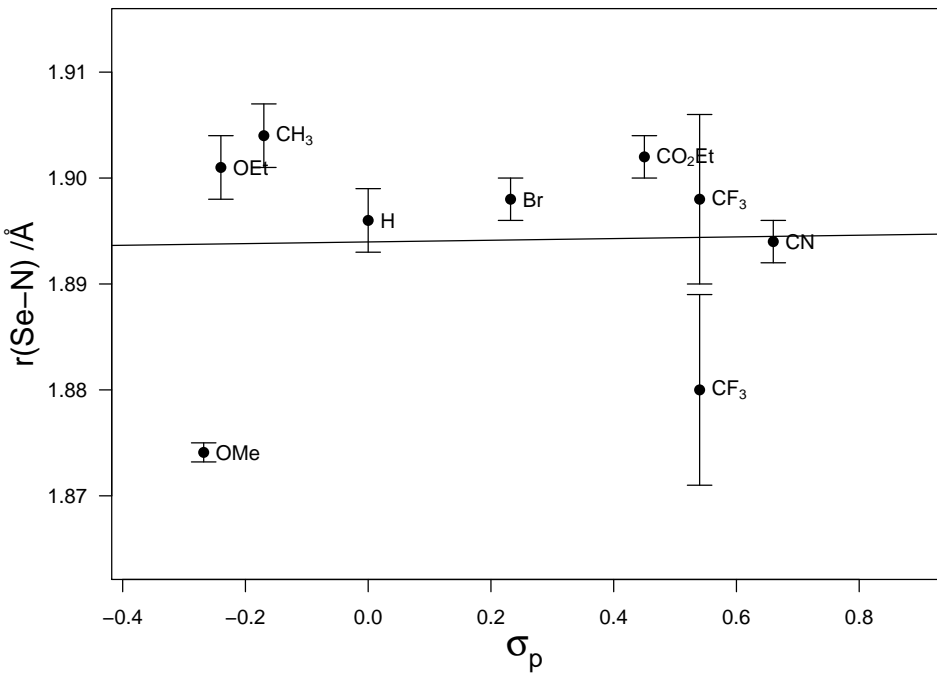


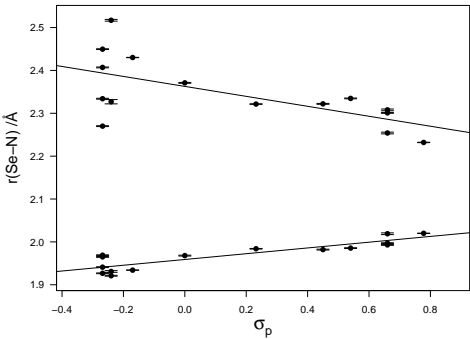
**5**



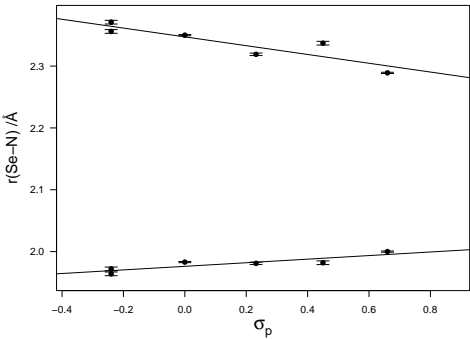
**1**

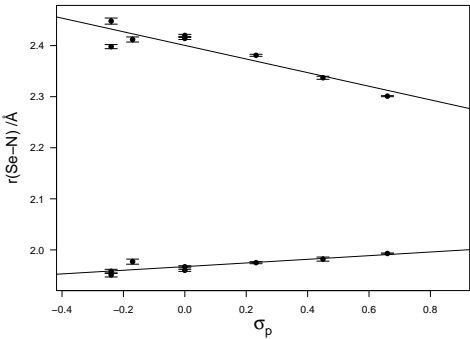


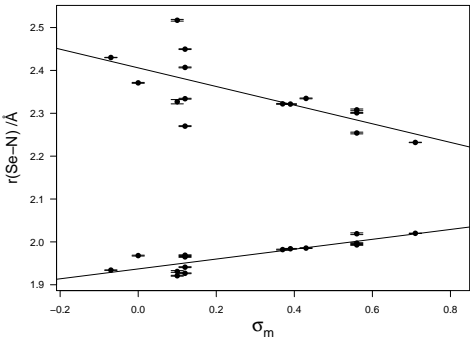


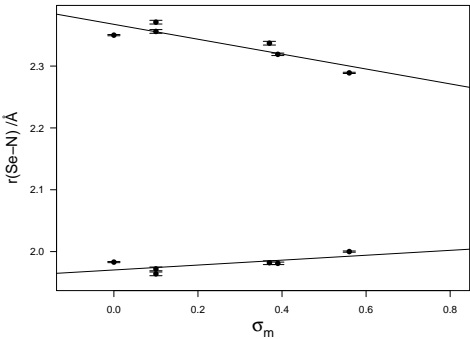


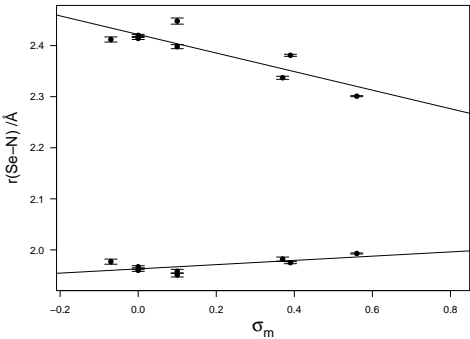


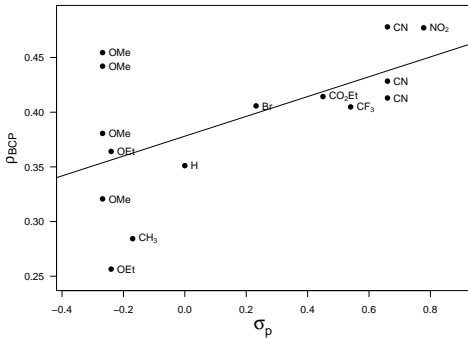


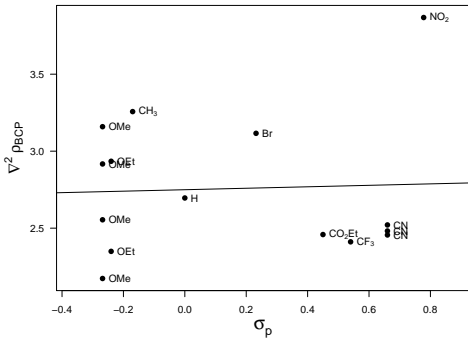


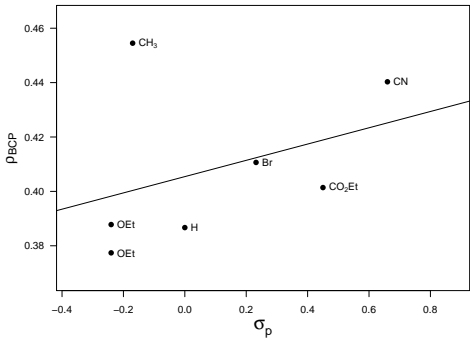




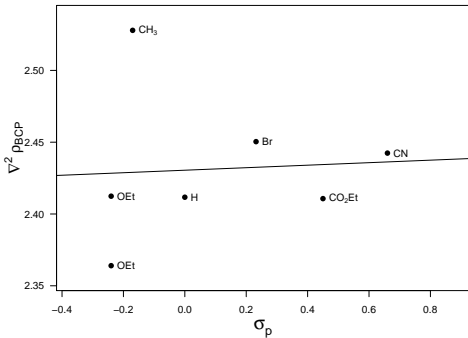


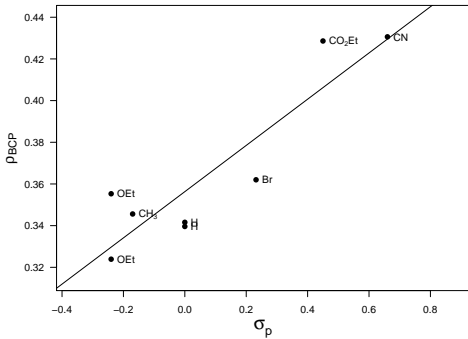


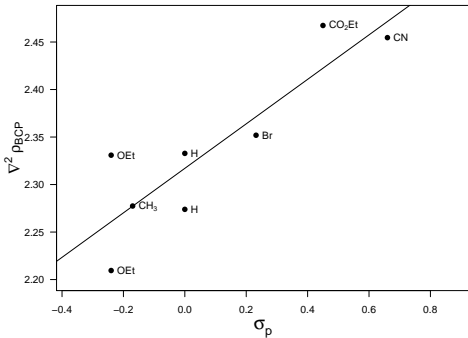


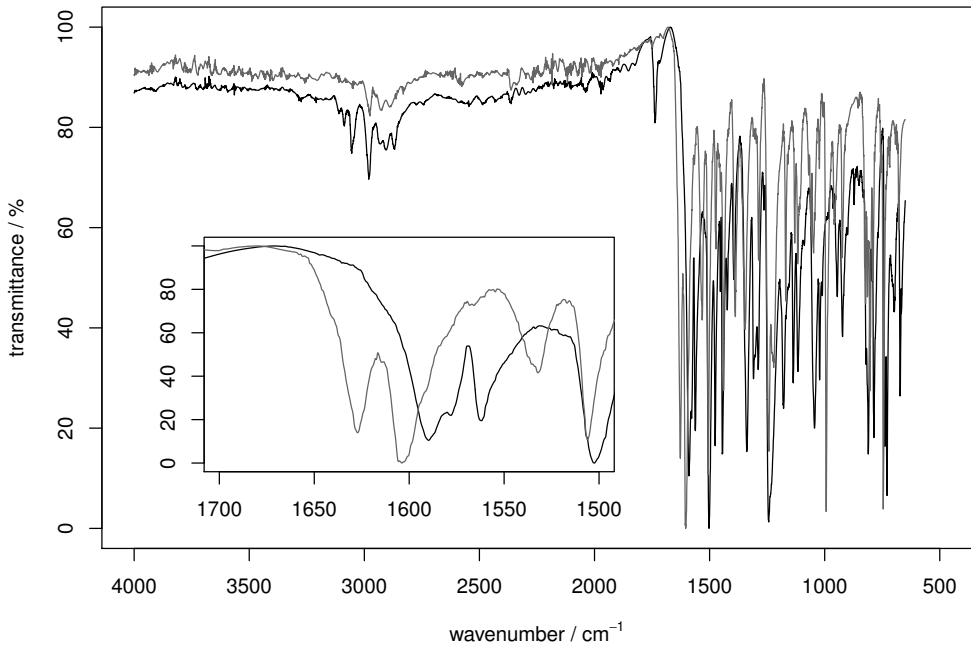


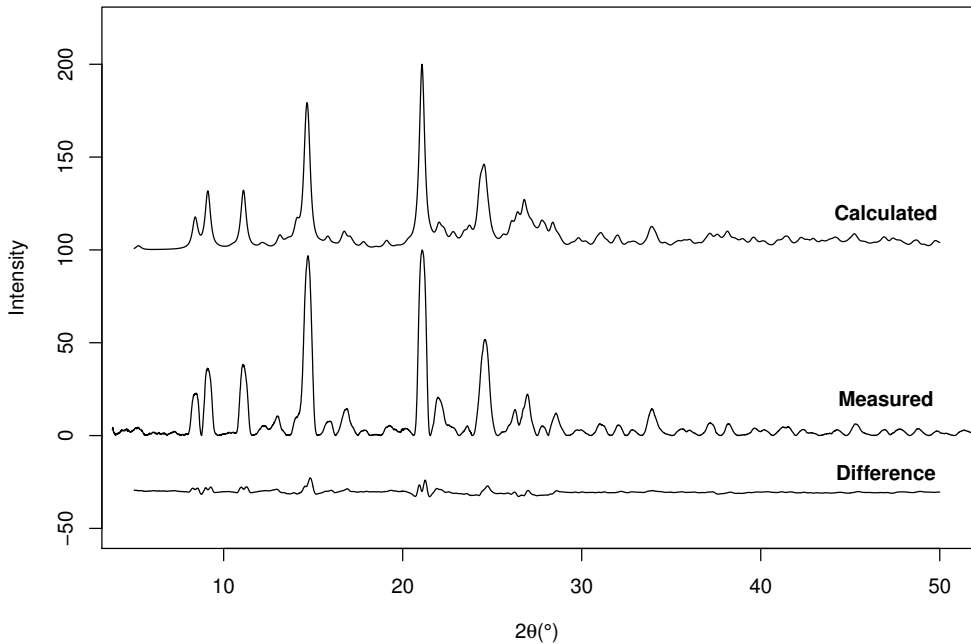


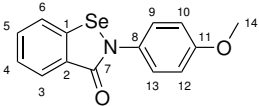
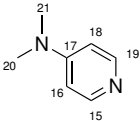


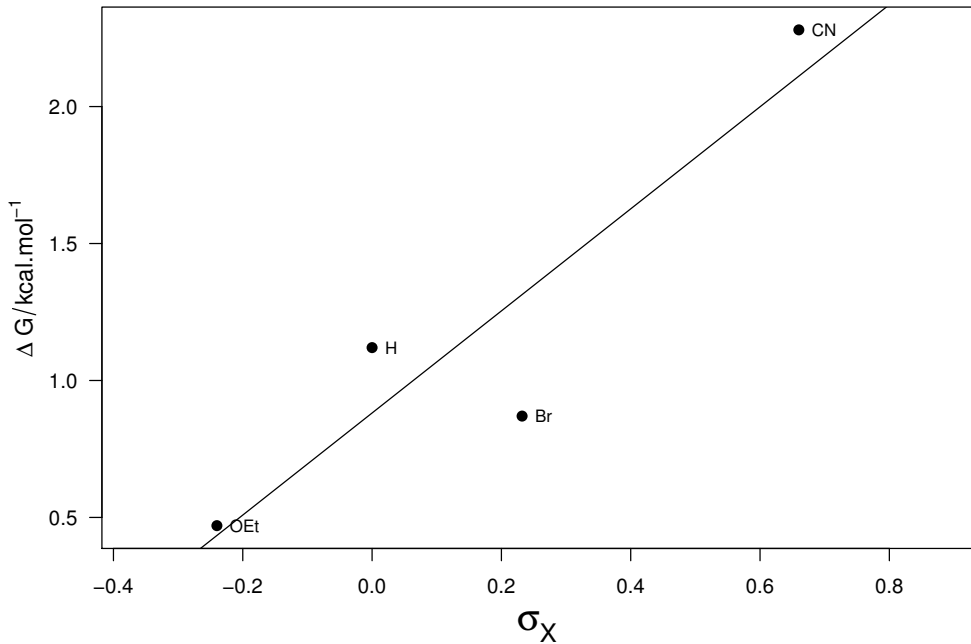


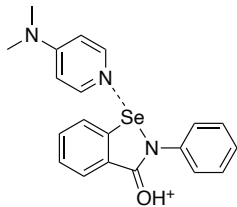






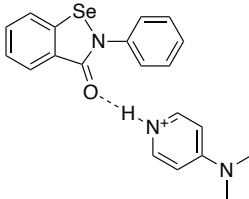




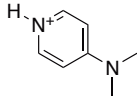


m/z: 398.08

or

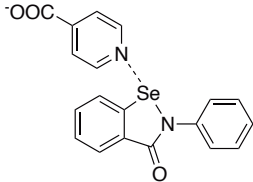


m/z: 398.08

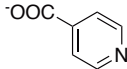


m/z: 123.09



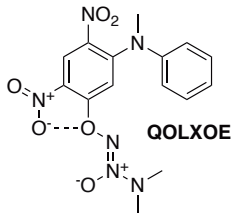
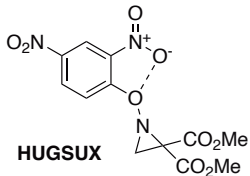
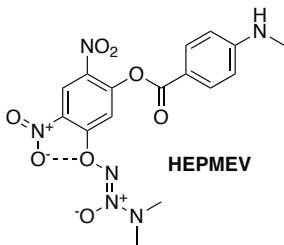
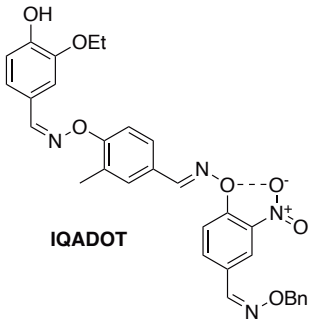


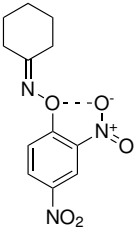
m/z: 397.01



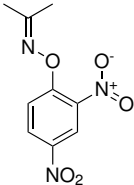
m/z: 122.02



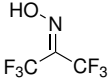
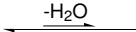
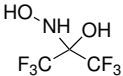


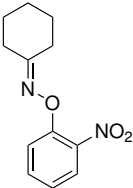


**8**

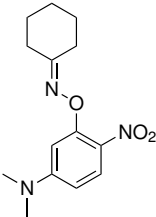


**9**

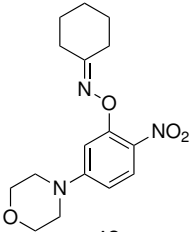




10

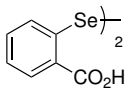


11

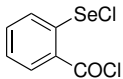


**12**

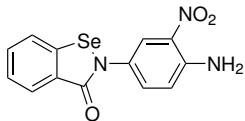




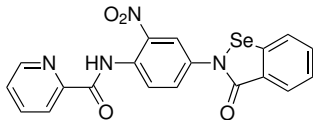
**5**



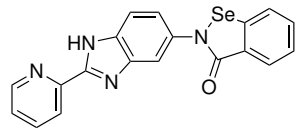
**6**



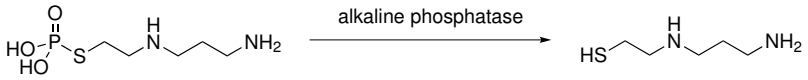
**16**

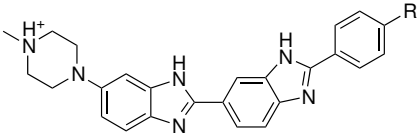


**15**



**14**

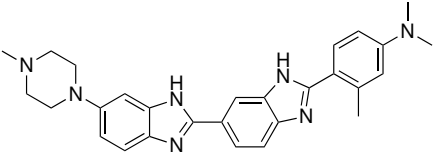


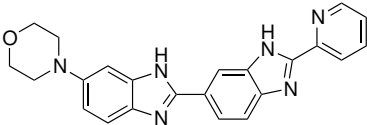


Hoechst 33258 R: OH

Hoechst 33342 R:  $\text{OCH}_2\text{CH}_3$

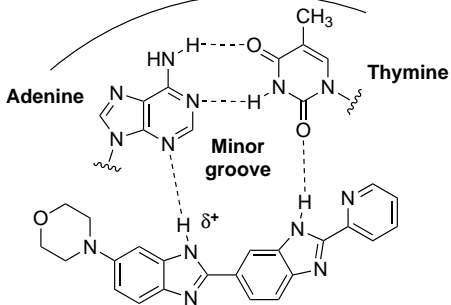
Hoechst 34580 R:  $\text{N}(\text{CH}_3)_2$



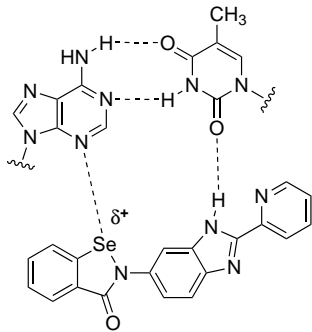


13

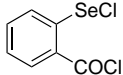
**Major groove**



**13**



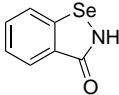
**14**



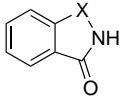
**6**

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

MeCN, rt, 10 min, 87%



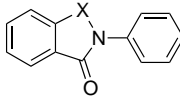
**1b**



**1b**

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

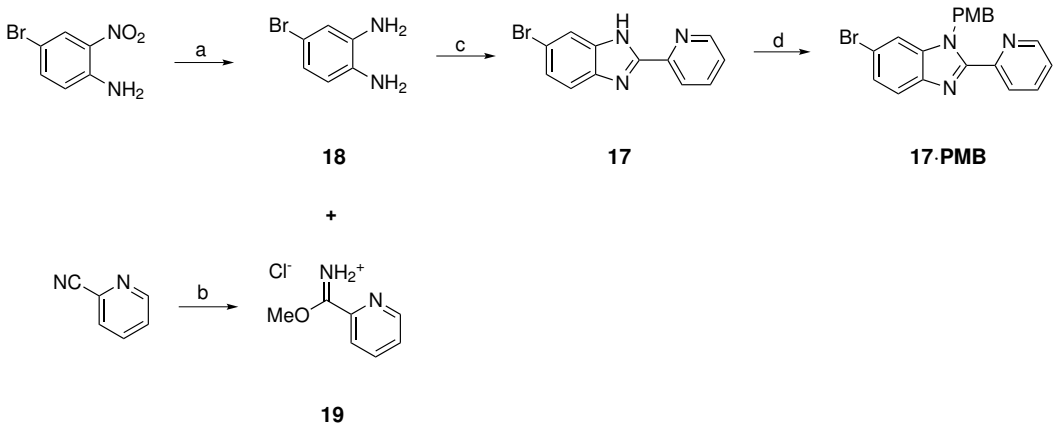
4Å sieves, 1,4-dioxane, 120°C, 18 h, 45%

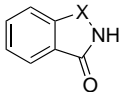


**1**

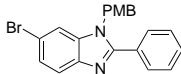
X = S, Se







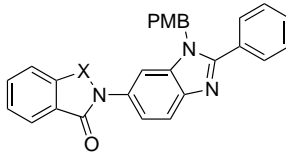
**1b**



**20-PMB**

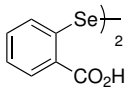
CuI, DMEDA, K<sub>2</sub>CO<sub>3</sub>

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

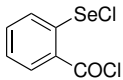


**21-PMB**

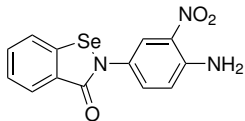
X = S, Se



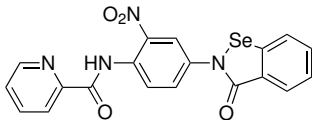
**5**



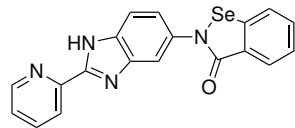
**6**



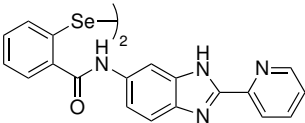
**16**



**15**



**14**



22

