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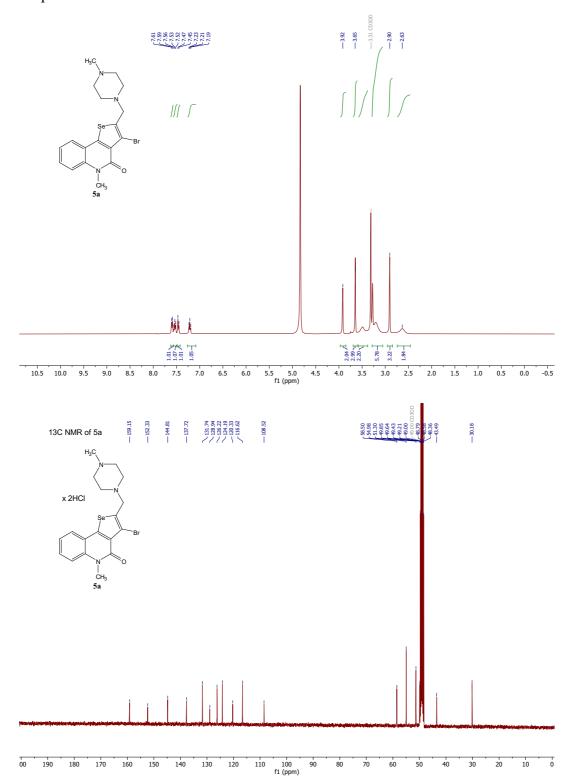
Supplementary material

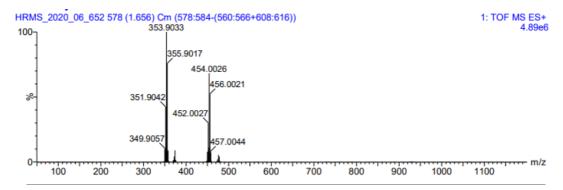
# Development of prospective non-toxic inhibitors of ABCB1 activity and expression in series of selenophenoquinolinones

Jelena Vasiljeva, Marina Makrecka-Kuka, Ilona Domracheva, Karlis Vilks, Pavels Dimitrijevs, Pavel Arsenyan\*

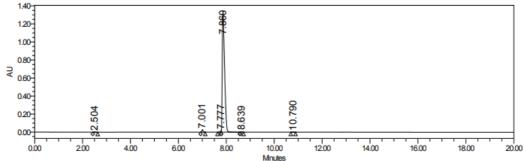
Latvian Institute of Organic Synthesis, Aizkraukles 21, LV-1006, Riga, Latvia pavel@osi.lv

# Compound 5a

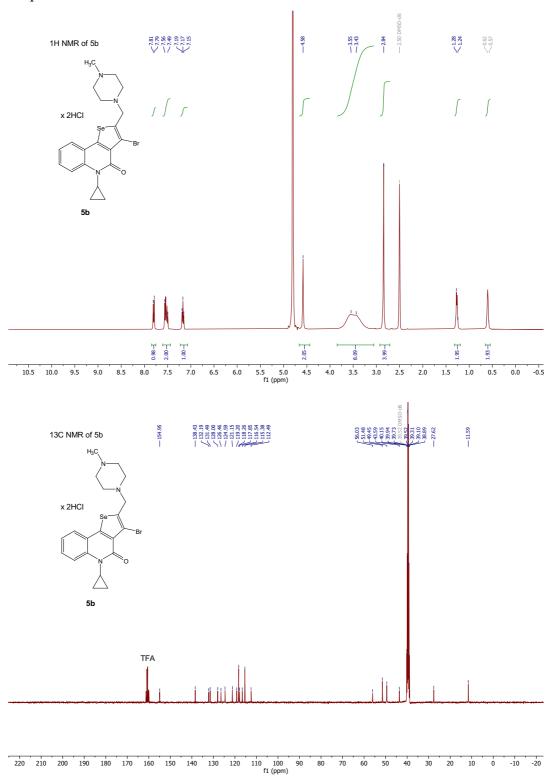


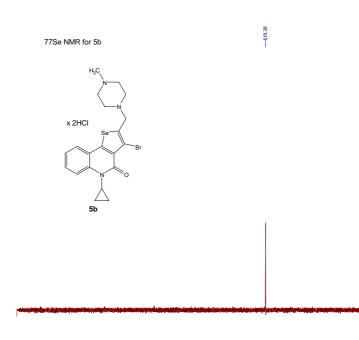


Apollo C18-9 (4,6x150 mm)
15min Gr. 5%-95%ACN+0.1%H3PO4; 5min Iz. 95%ACN; 3min Gr. 95-5%ACN, 2min Iz. 5%ACN; 1mL/min; 40oC



# Compound **5b**



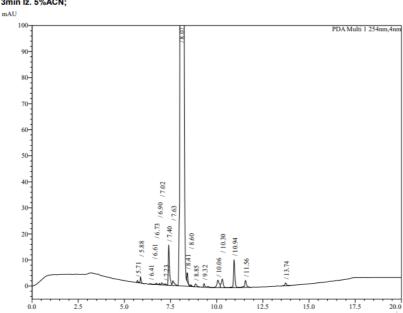


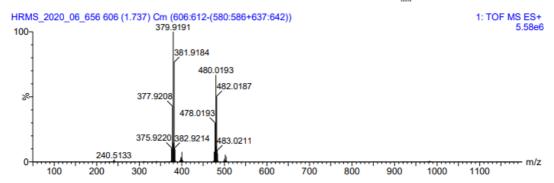
f1 (ppm) Apollo C18-11 (4.6 x 150mm); F - 1mL/min; t = 40°C 15min Gr. 5-95%ACN + 0.1% H3PO4; 5min Iz. 95%ACN; 2min Gr. 95-5%ACN; 3min Iz. 5%ACN;

Ó

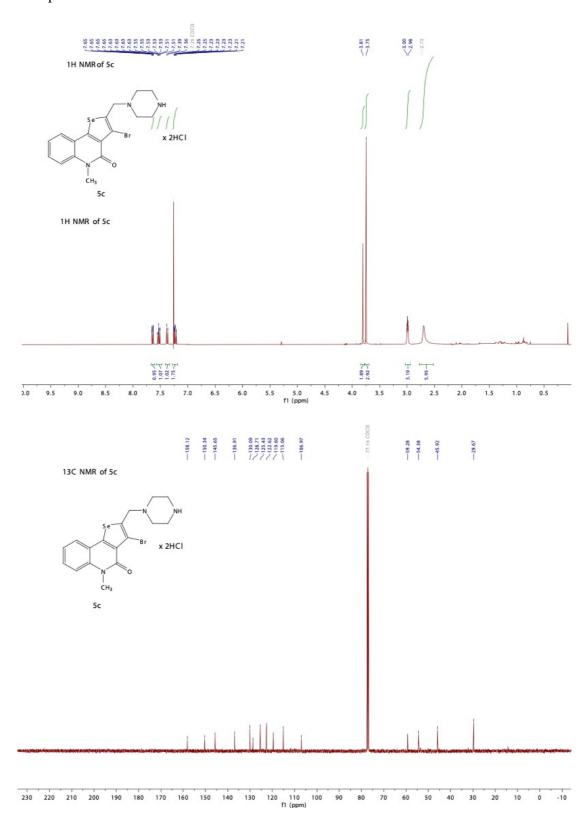
-100

-200



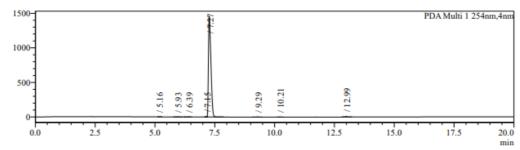


# Compound **5c**

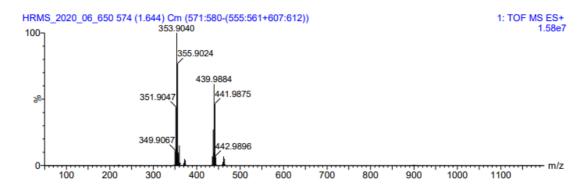


Apollo C18-13 (4.6 x 150mm); F - 1mL/min; t = 40°C 15min Gr. 5-95%ACN + 0.1% H3PO4; 5min Iz. 95%ACN; 2min Gr. 95-5%ACN; 3min Iz. 5%ACN;

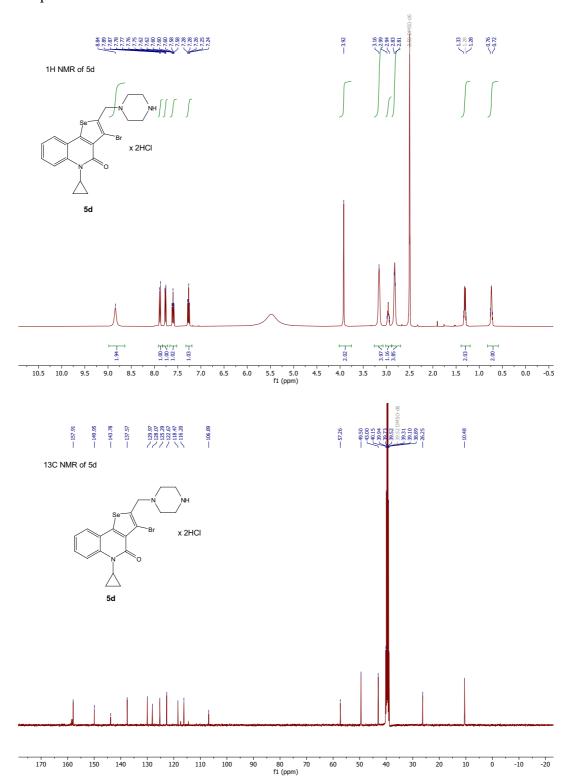
mAU



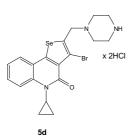
C ~ 0,45 mg/ml; diluent -15%ACN in 0.1%PA

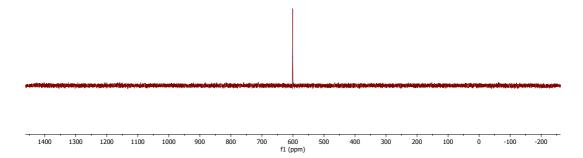


# Compound **5d**



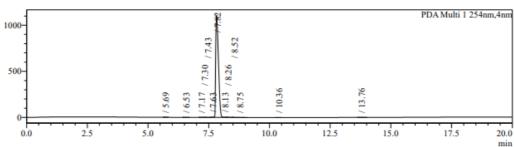
77Se NMR of 5d



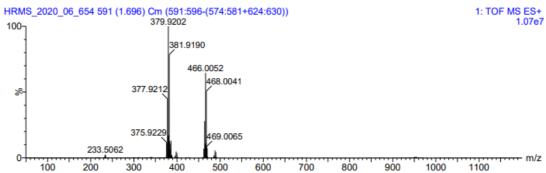


Apollo C18-11 (4.6 x 150mm); F - 1mL/min; t = 40°C 15min Gr. 5-95%ACN + 0.1% H3PO4; 5min Iz. 95%ACN; 2min Gr. 95-5%ACN; 3min Iz. 5%ACN;

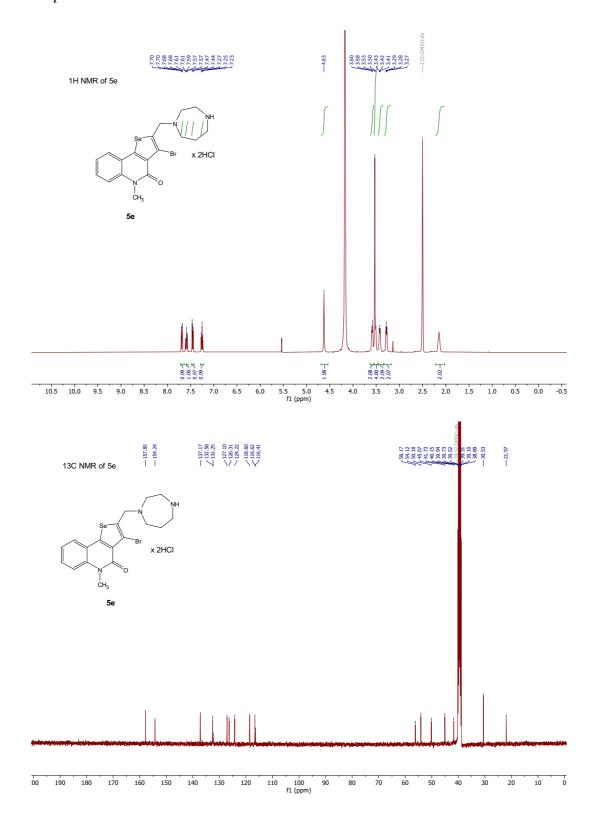
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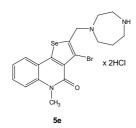
 $C \sim 0.5$  mg/ml; diluent - 5%ACN in 0.1%PA



# Compound **5e**







750

700

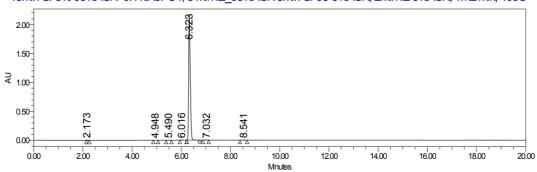
650

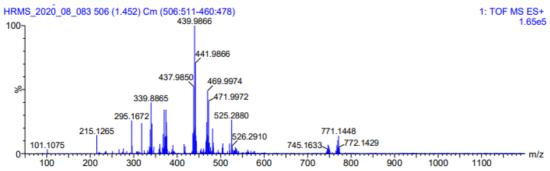




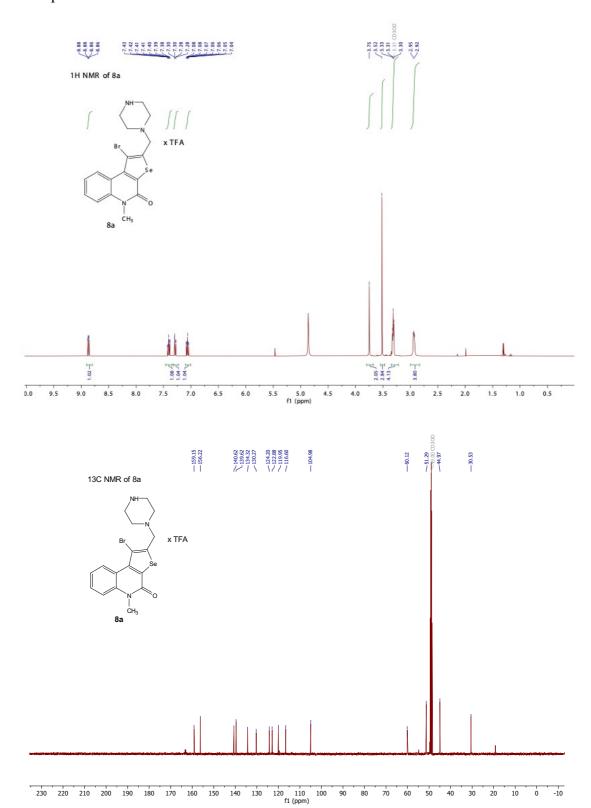
300 250

200 150 100 50

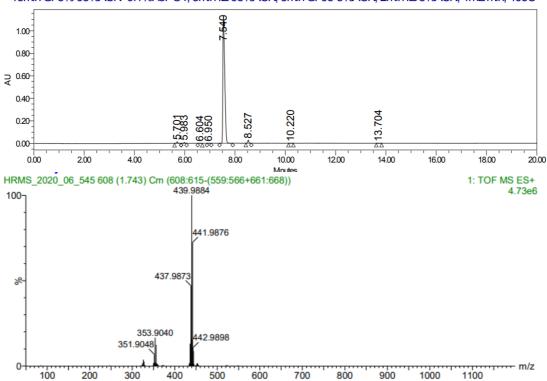




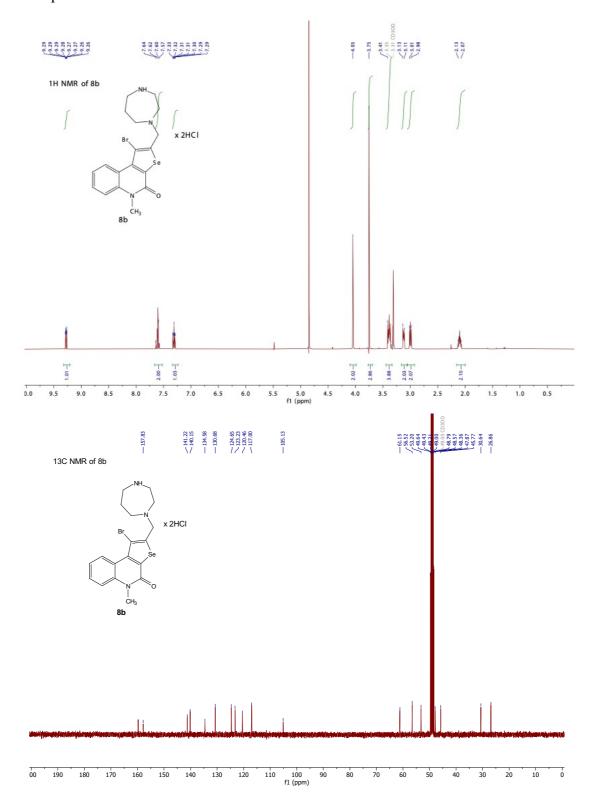
# Compound 8a



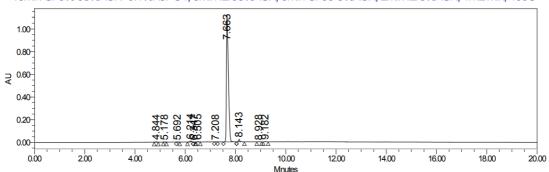
Adamas C18-Classic (4,6x150 mm)
15min Gr 5%-95%ACN+0.1%H3PO4; 5min IZ 95%ACN; 3min Gr 95-5%ACN, 2min IZ 5%ACN; 1mL/min; 40oC

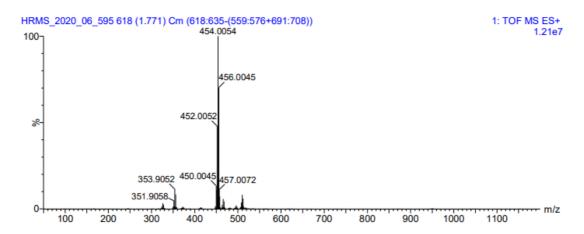


# Compound **8b**

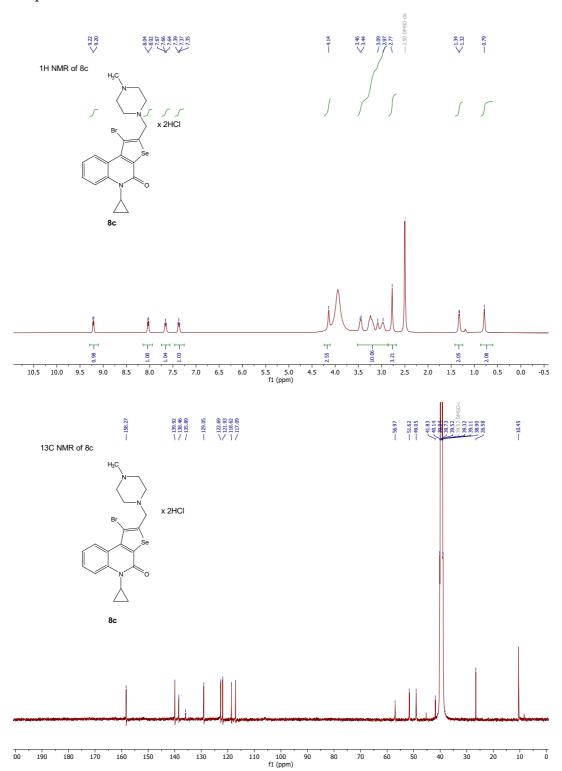


Adamas C18-Classic (4,6x150 mm)
15min Gr 5%-95%ACN+0.1%H3PO4; 5min IZ 95%ACN; 3min Gr 95-5%ACN, 2min IZ 5%ACN; 1mL/min; 40oC

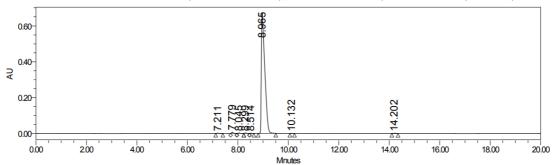


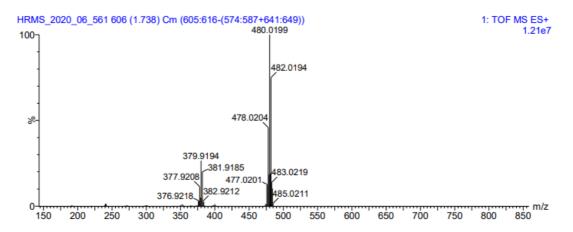


# Compound 8c

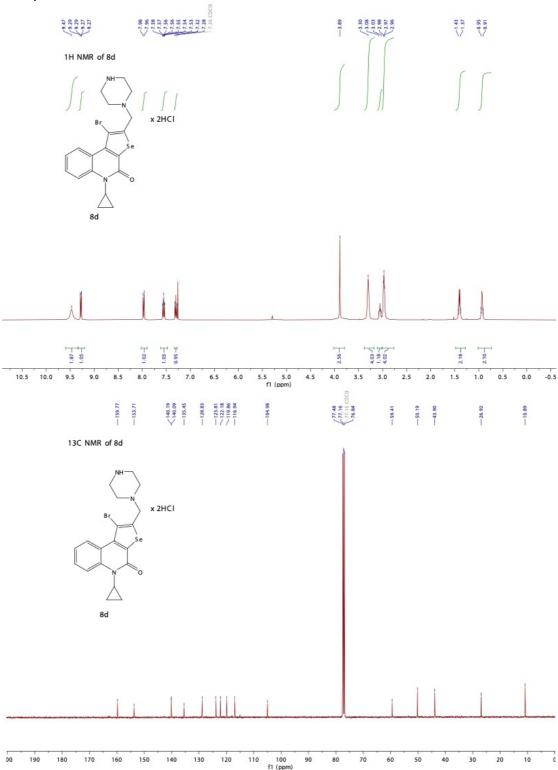


Apollo C18-9 (4,6x150 mm)
15min Gr. 5%-95%ACN+0.1%H3PO4; 5min Iz. 95%ACN; 3min Gr. 95-5%ACN, 2min Iz. 5%ACN; 1mL/min; 40oC



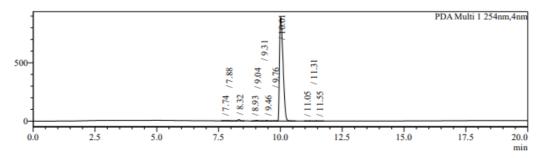


# Compound 8d

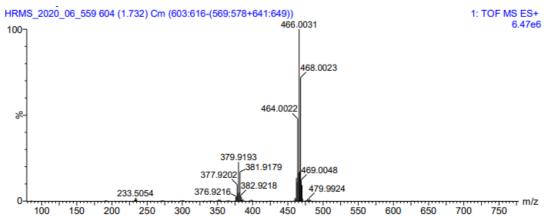


Apollo C18-11 (4.6 x 150mm); F - 1mL/min; t = 40°C 15min Gr. 5-95%ACN + 0.1% H3PO4; 5min Iz. 95%ACN; 2min Gr. 95-5%ACN; 3min Iz. 5%ACN;

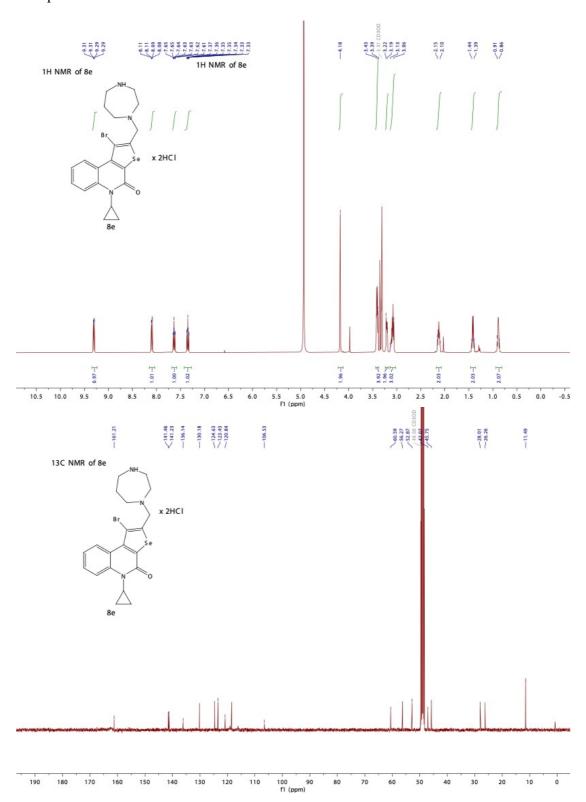
mAU



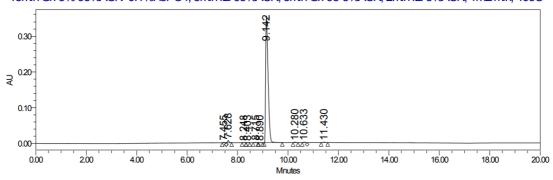
C ~ 0,5 mg/ml; diluent - 5%ACN in 0.1%PA

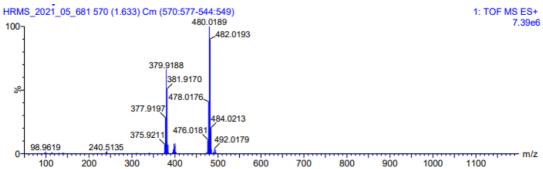


# Compound 8e

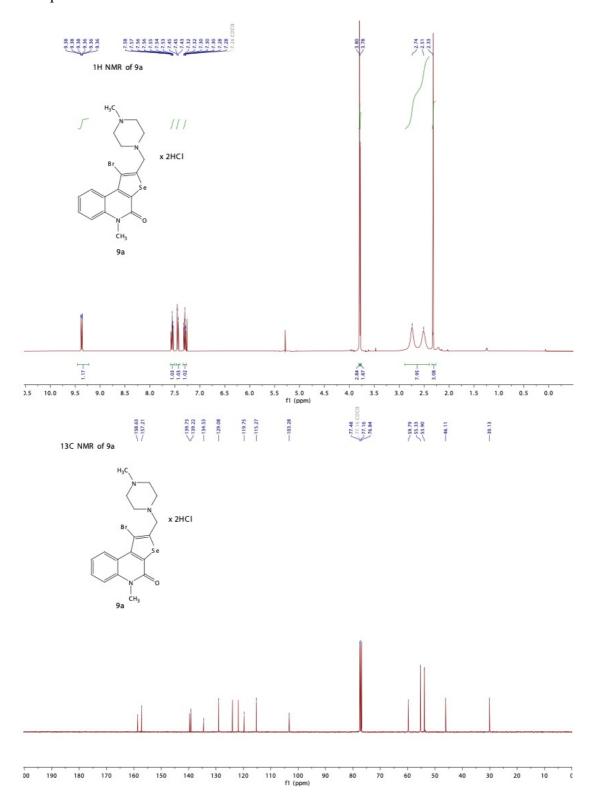


Apollo C18-9 (4,6x150 mm)
15min Gr. 5%-95%ACN+0.1%H3PO4; 5min Iz. 95%ACN; 3min Gr. 95-5%ACN, 2min Iz. 5%ACN; 1mL/min; 40oC

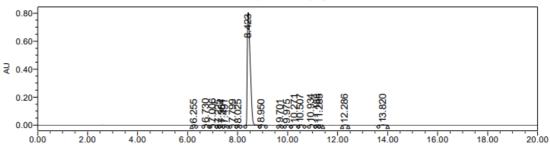


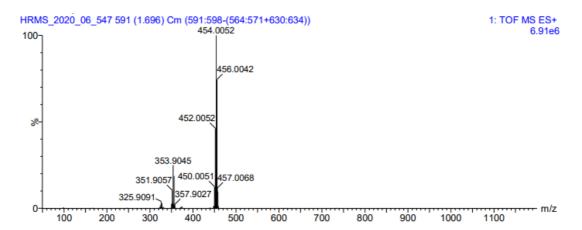


# Compound 9a

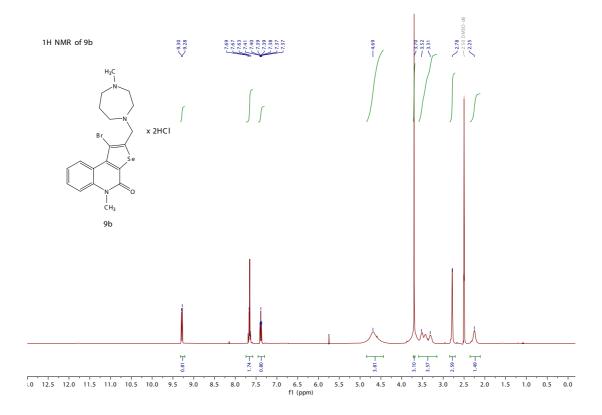


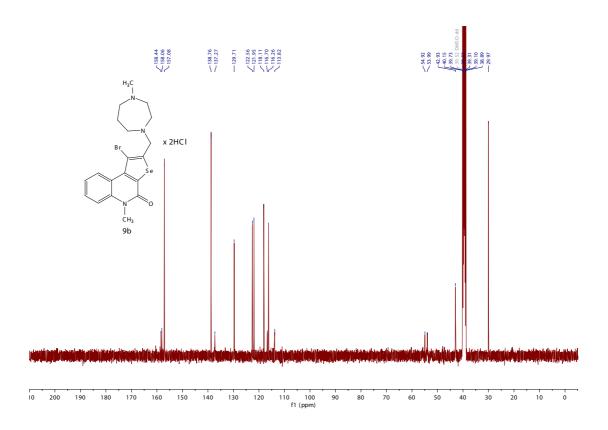
Apollo C18-12 5um (4.6x150 mm)
15 min Gr. 5-95%ACN + 0.1% H3PO4; 5 min Iz. 95%ACN; 2 min Gr. 95-5% ACN; 3 min Iz. 5% ACN.
F=1mL/min. T=40oC.





# Compound **9b**





Apollo C18-12 5um (4.6x150 mm)
15 min Gr. 5-95%ACN + 0.1% H3PO4; 5 min lz. 95%ACN; 2 min Gr. 95-5% ACN; 3 min lz. 5% ACN.
F=1mL/min. T=40oC.

