

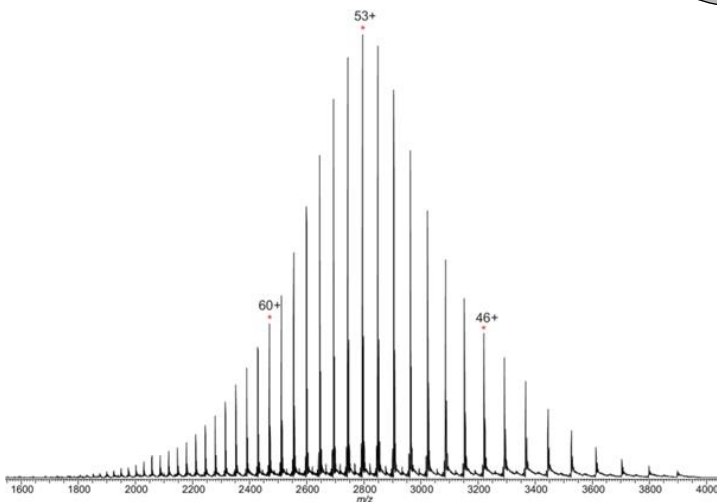
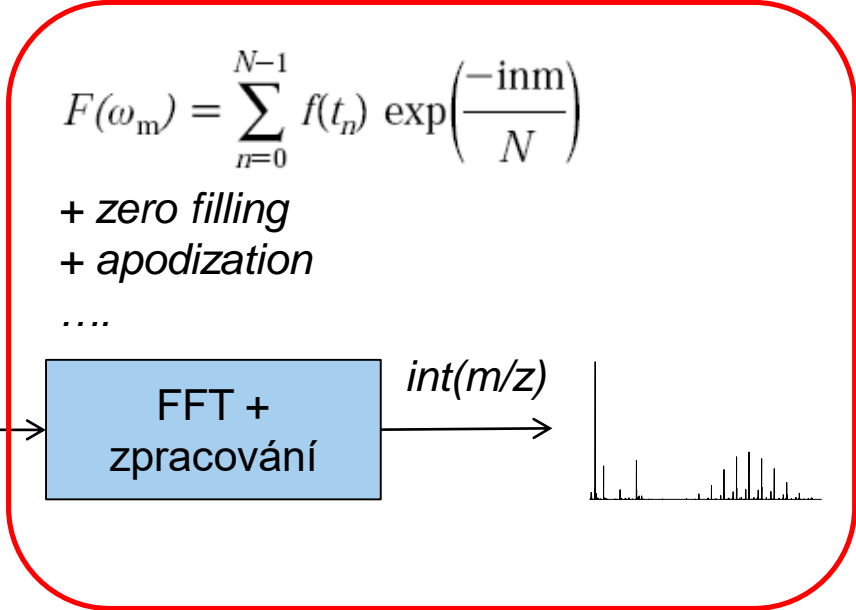
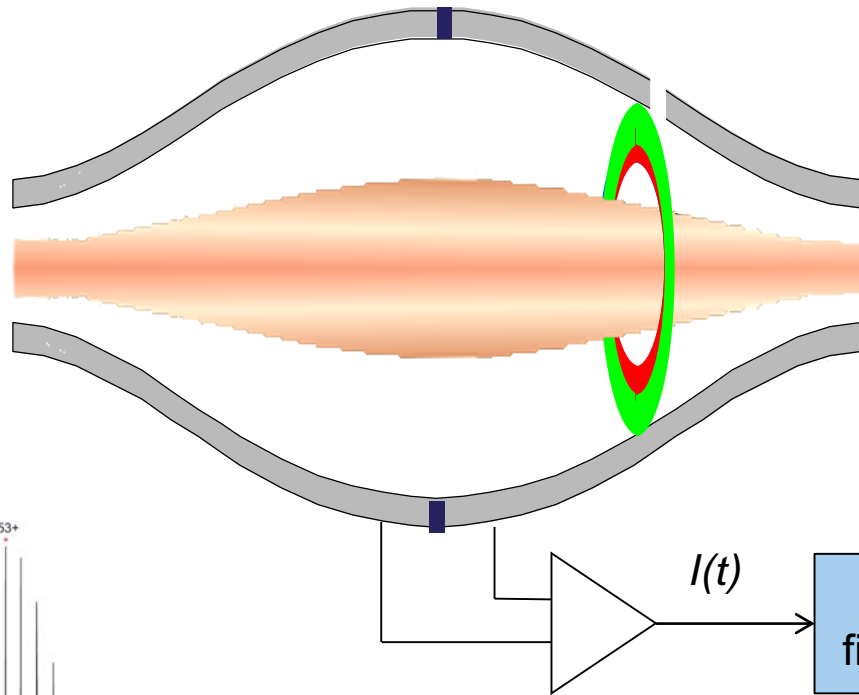
# SKENOVACÍ MÓDY S ORBITÁLNÍ IONTOVOU PASTÍ

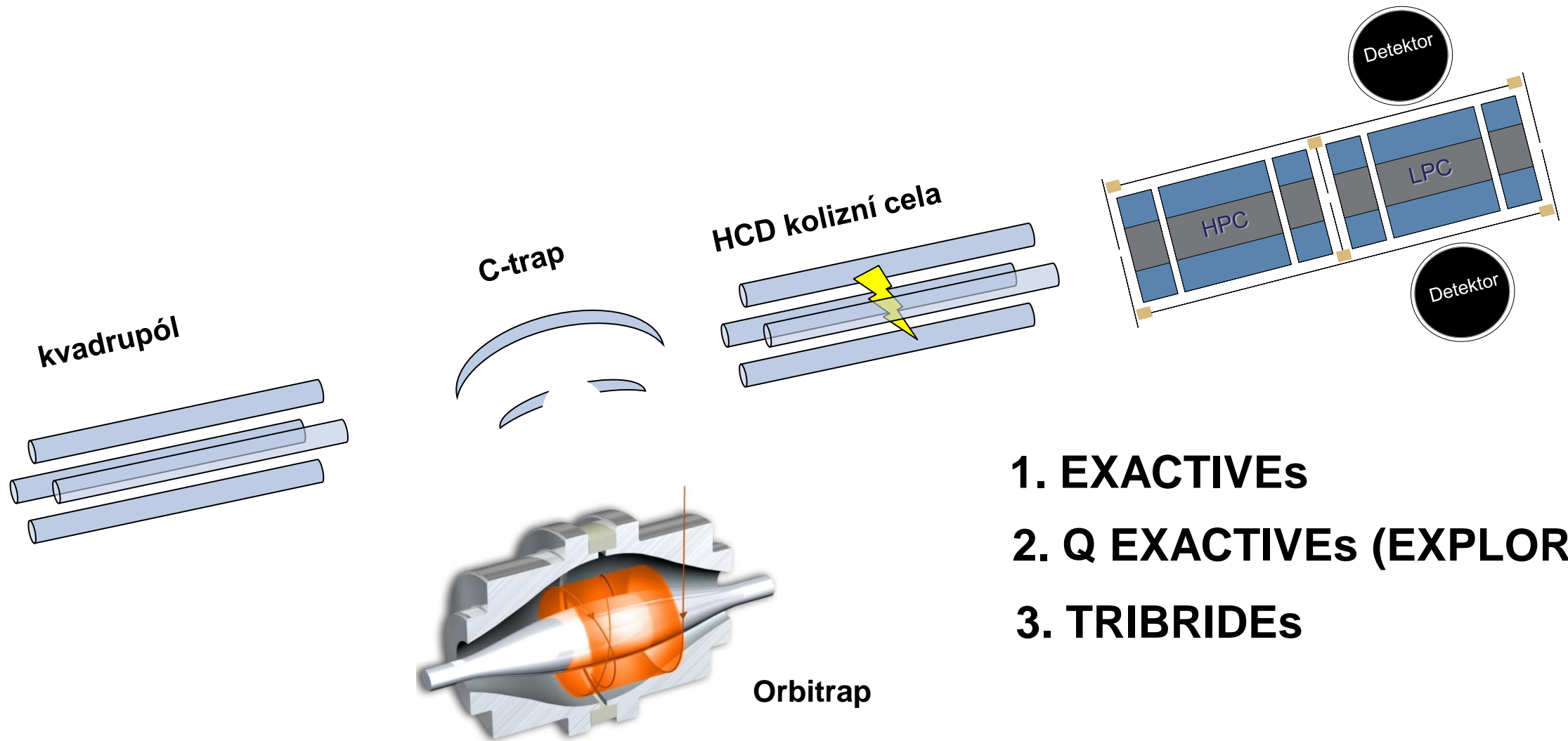
Lukáš Plaček



**pragolab**  
authorized distributor  
**thermo**scientific

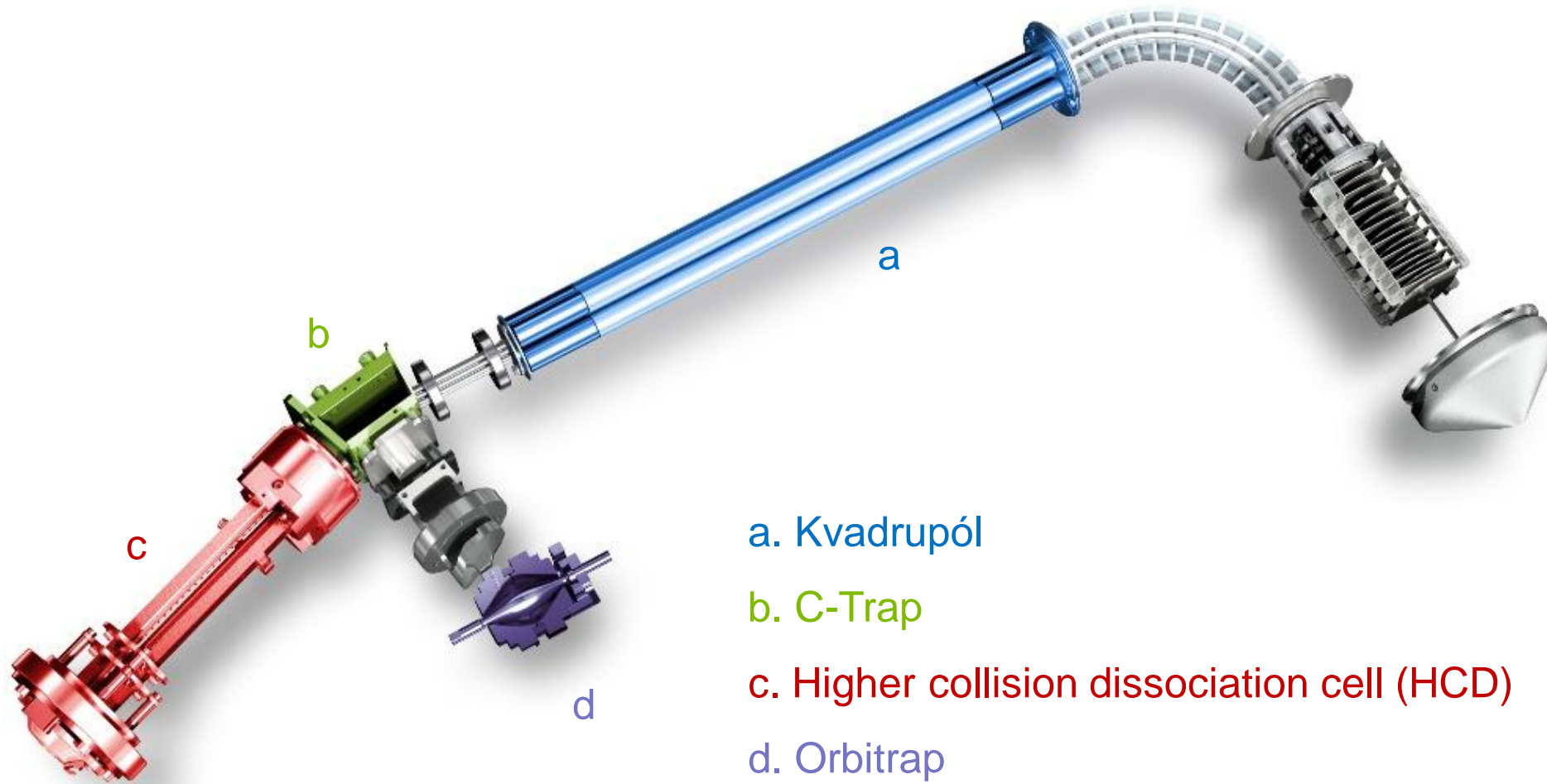
pojem „skenování“ prosím s rezervou





1. EXACTIVES
2. Q EXACTIVES (EXPLORIS)
3. TRIBRIDES

# Sestavy kvadrupól-orbitální past, Q Exactive (Exploris)



a. Kvadrupól

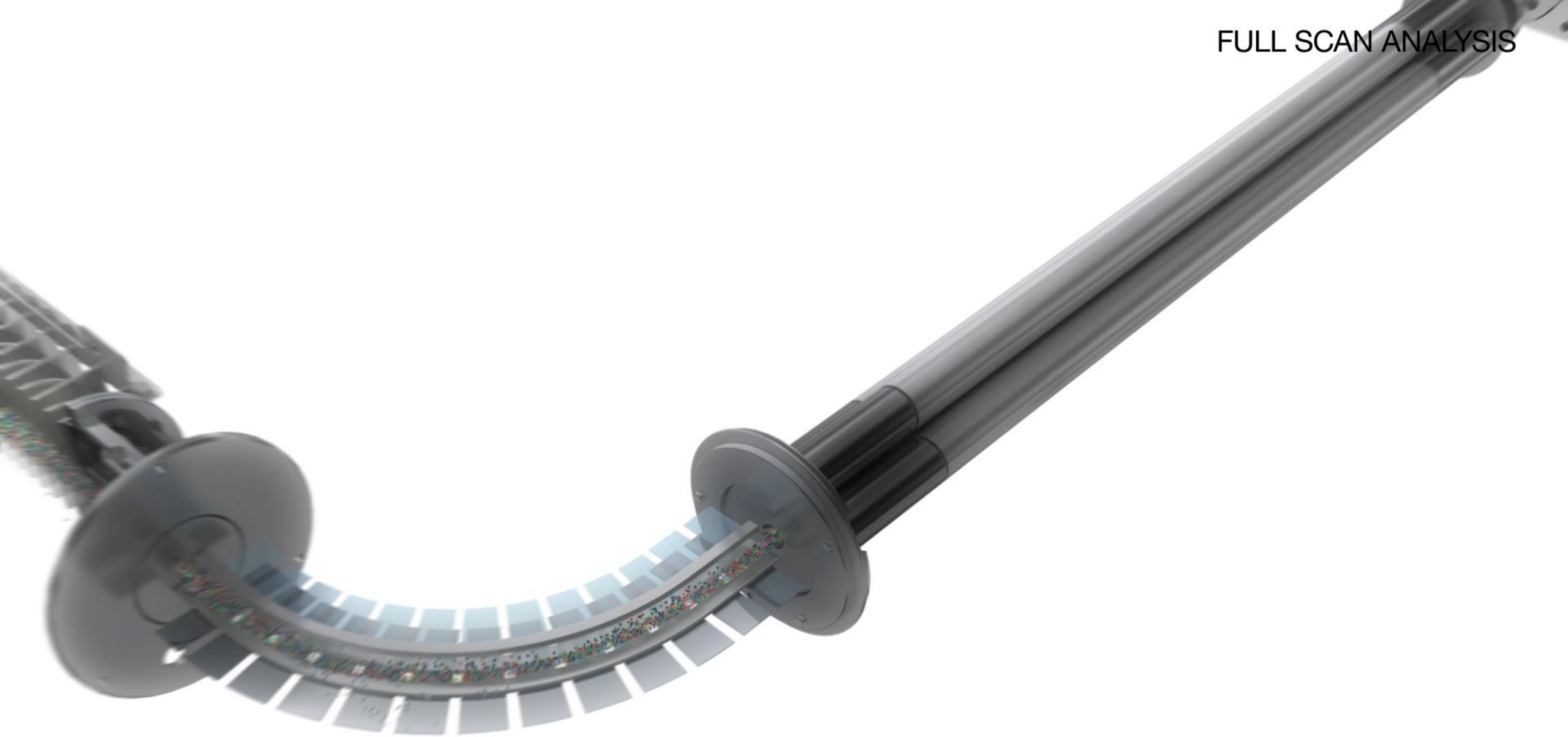
b. C-Trap

c. Higher collision dissociation cell (HCD)

d. Orbitrap

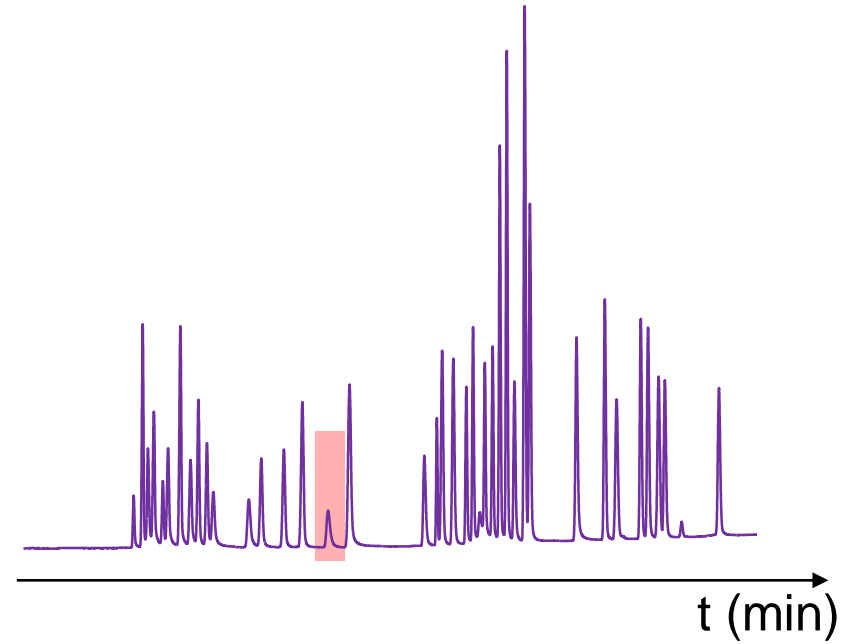
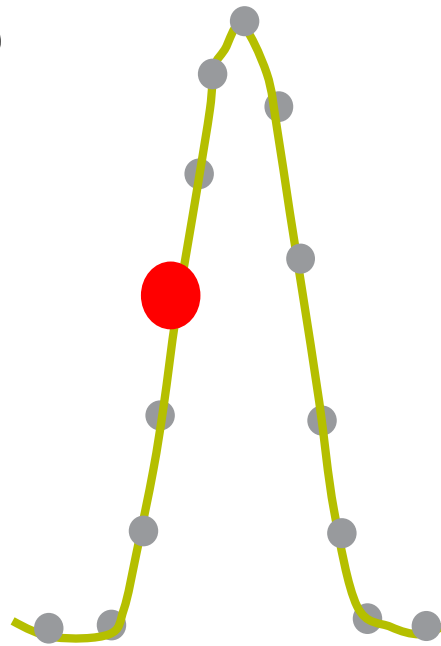


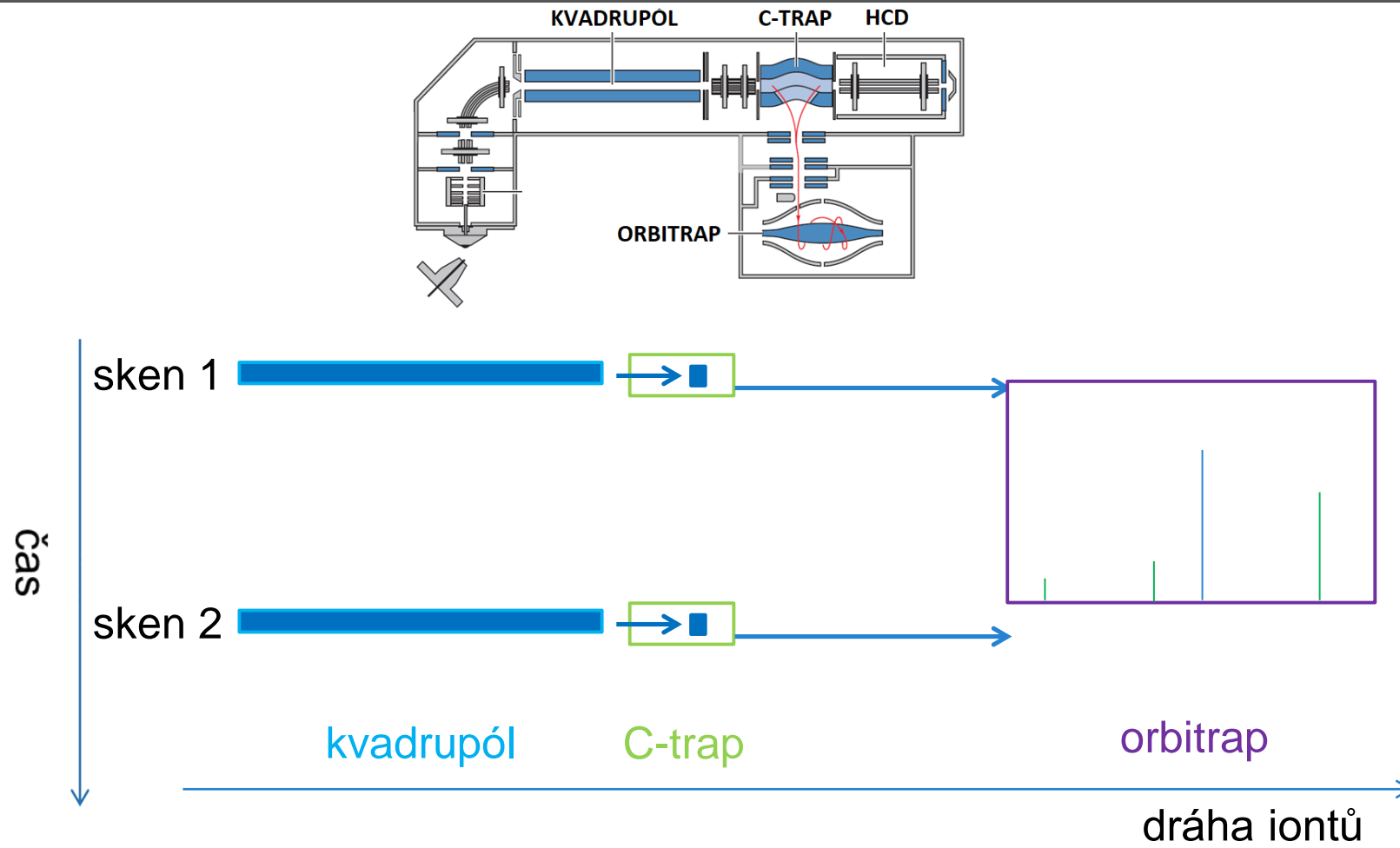
FULL SCAN ANALYSIS

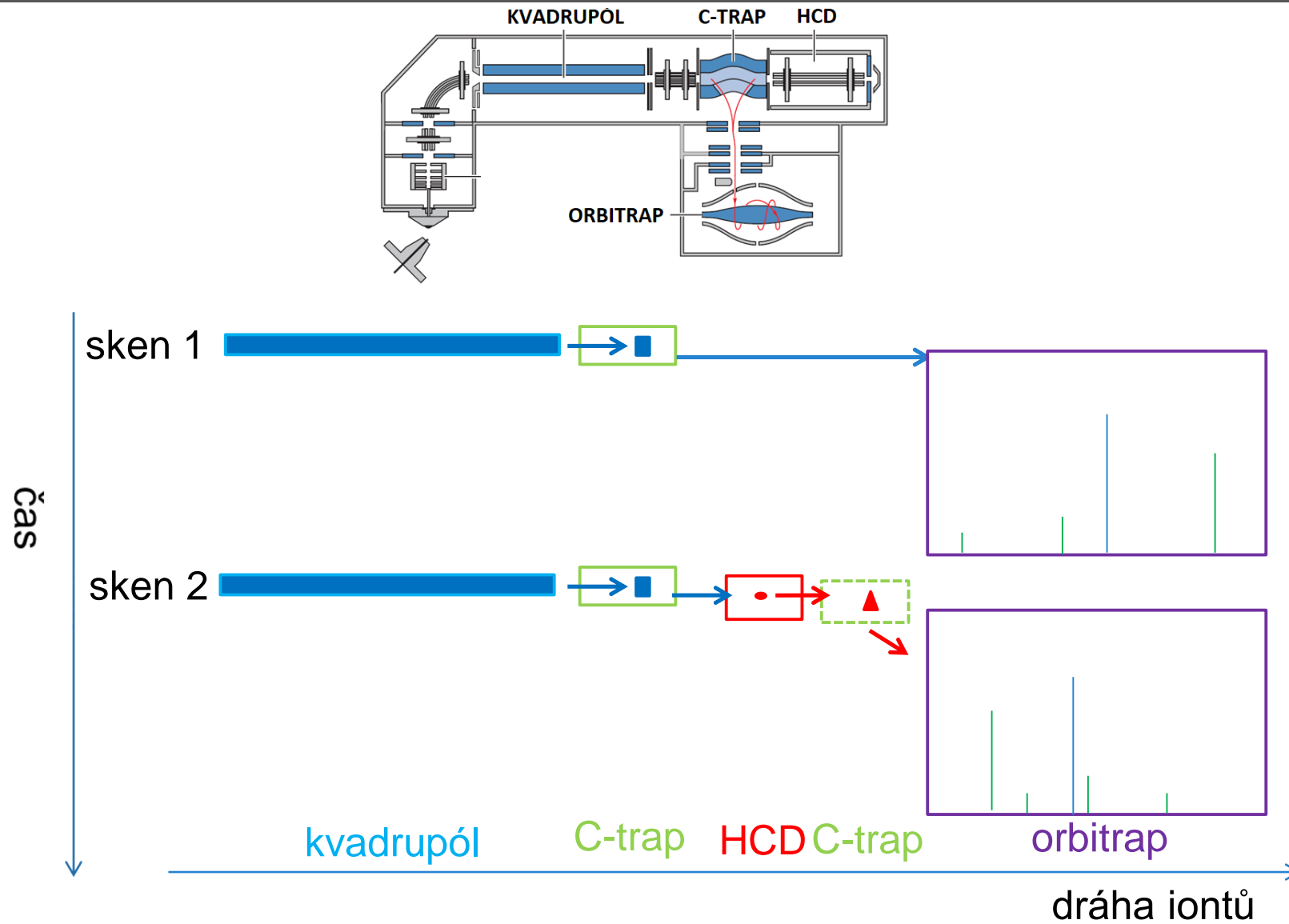


# Agenda

- Full MS
- Full MS/AIF
- Targeted-SIM (t-SIM)
- PRM or Targeted-MS<sup>2</sup> (t-MS<sup>2</sup>)
- Full MS/dd-MS<sup>2</sup> (Top N, Top Speed)
- Data independent acquisition (DIA)

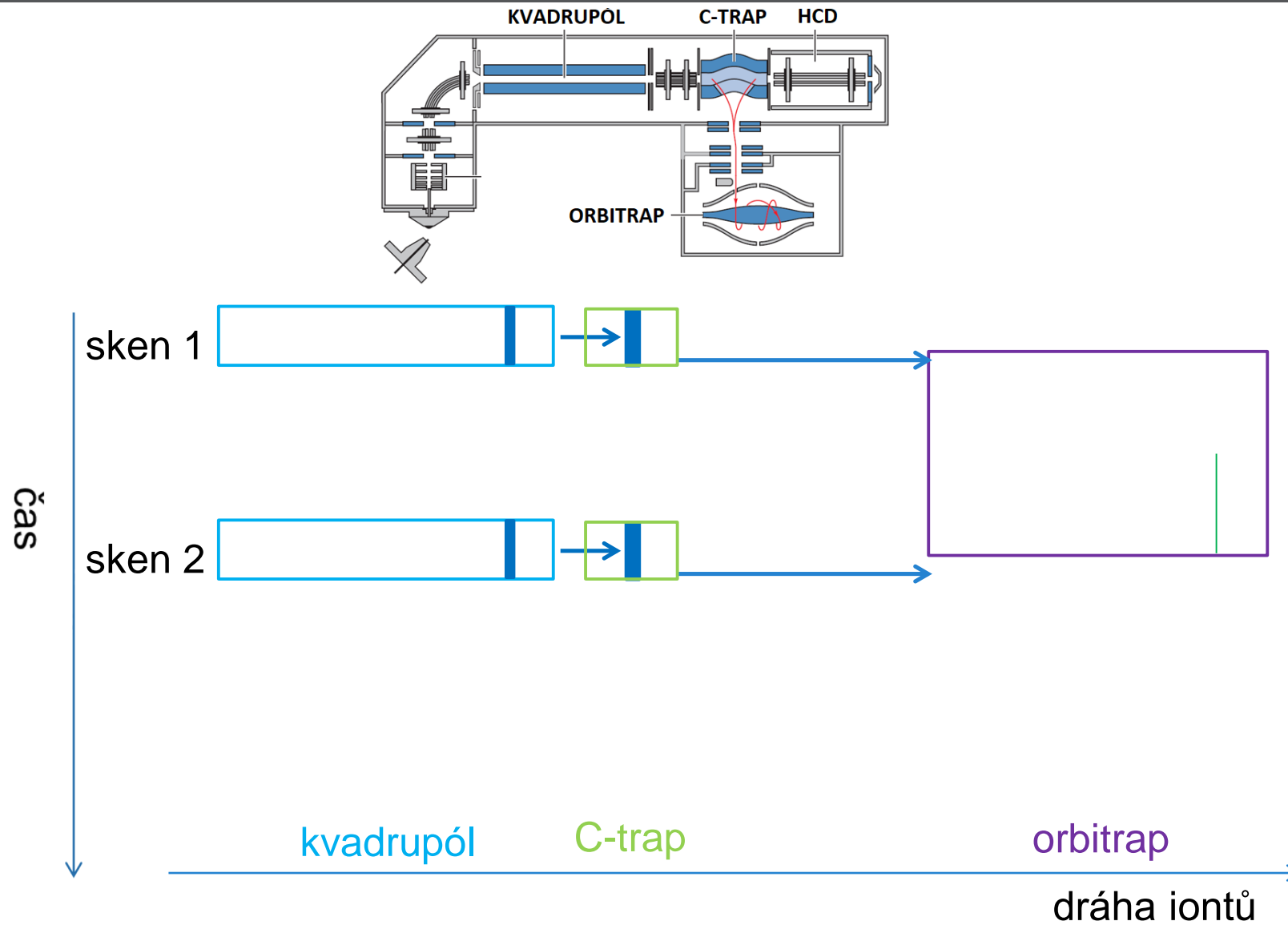




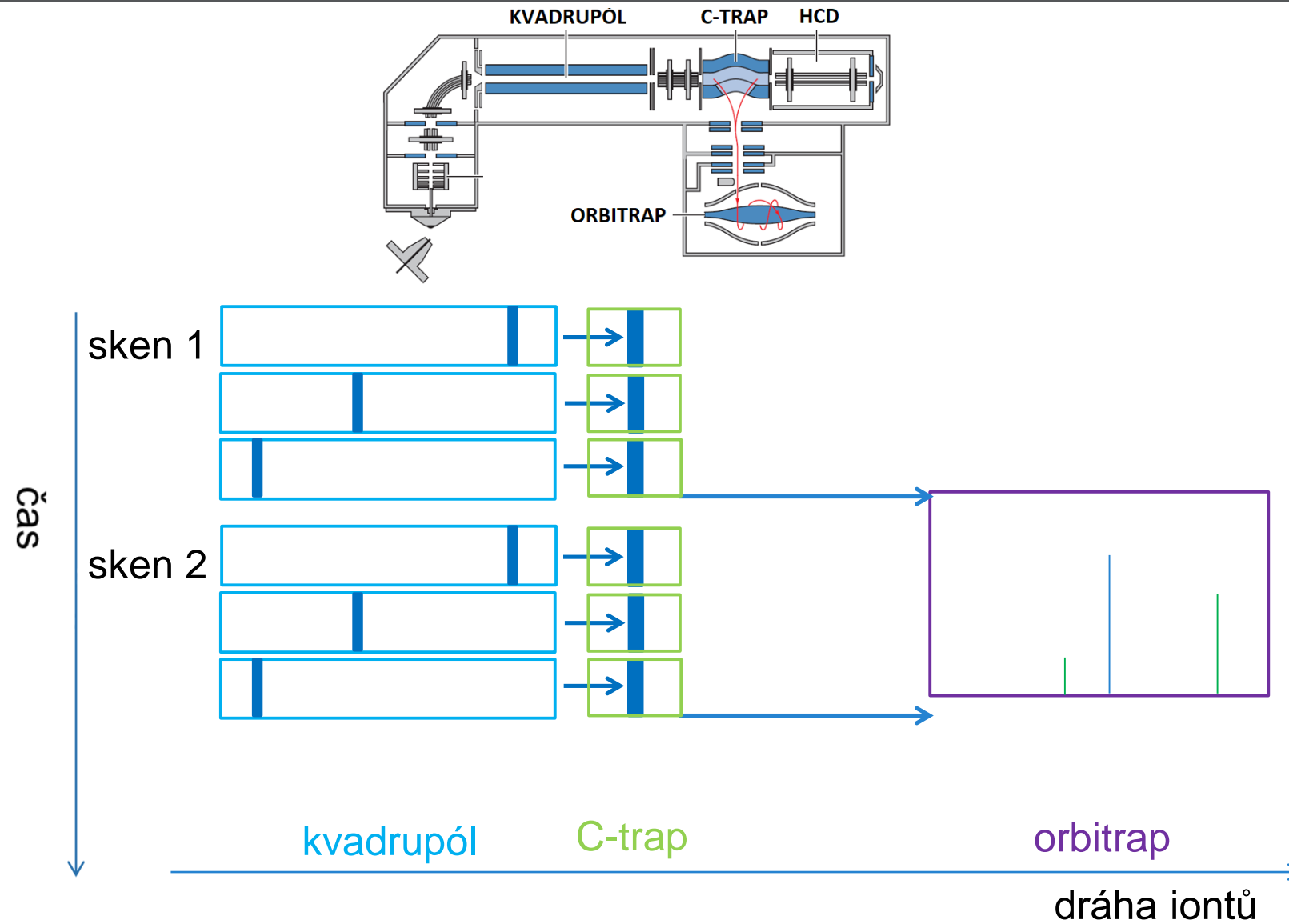




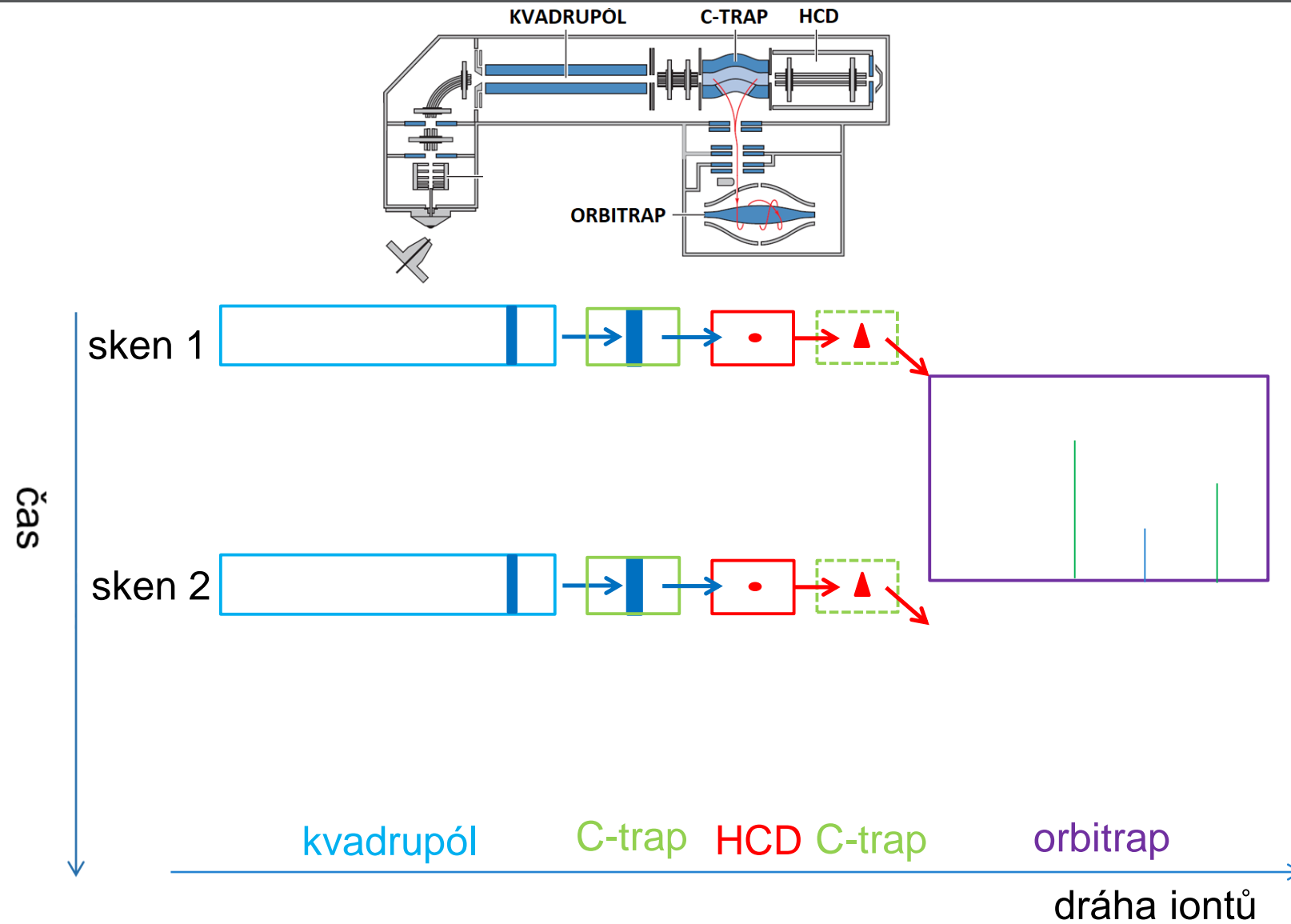
# Targeted-SIM (t-SIM)



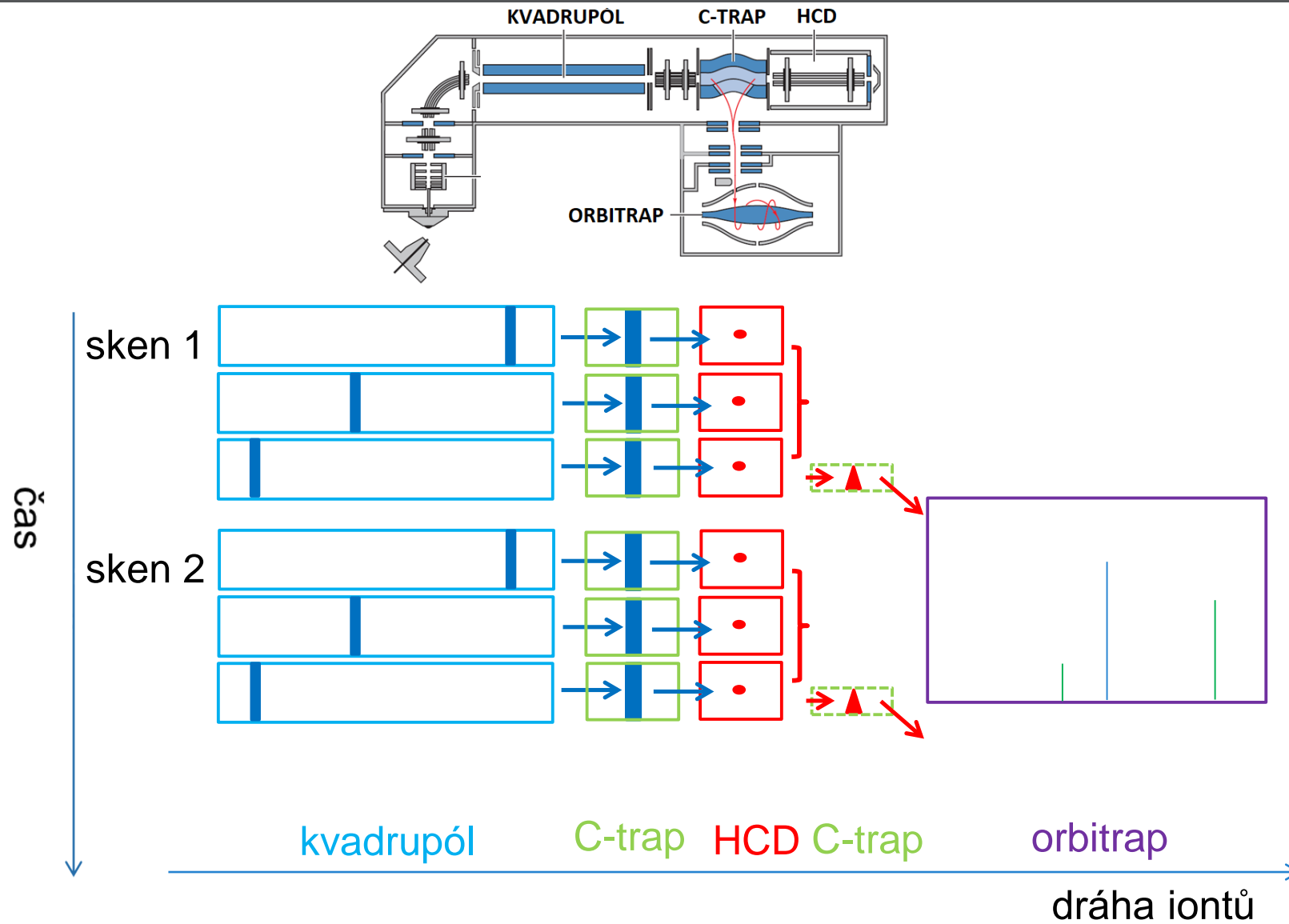
# Targeted-SIM (t-SIM) MSX



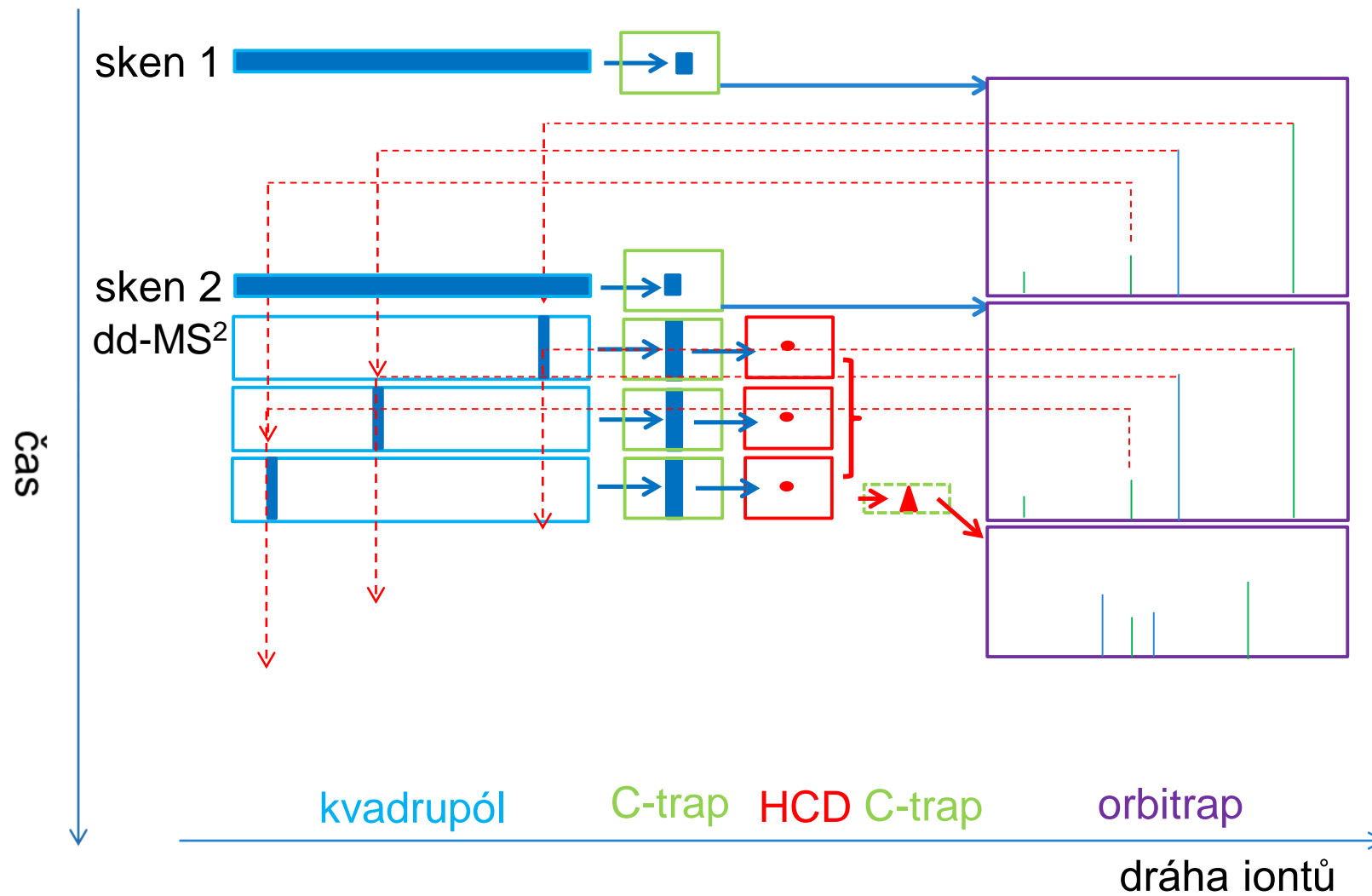
# PRM nebo Targeted-MS<sup>2</sup> (t-MS<sup>2</sup>)



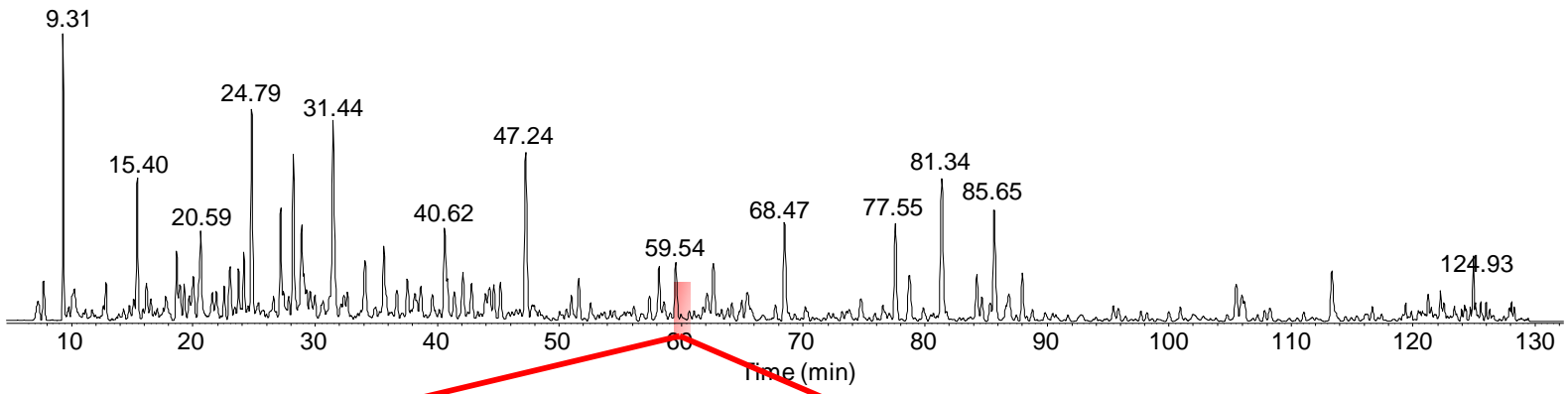
# PRM nebo Targeted-MS<sup>2</sup> (t-MS<sup>2</sup>) MSX



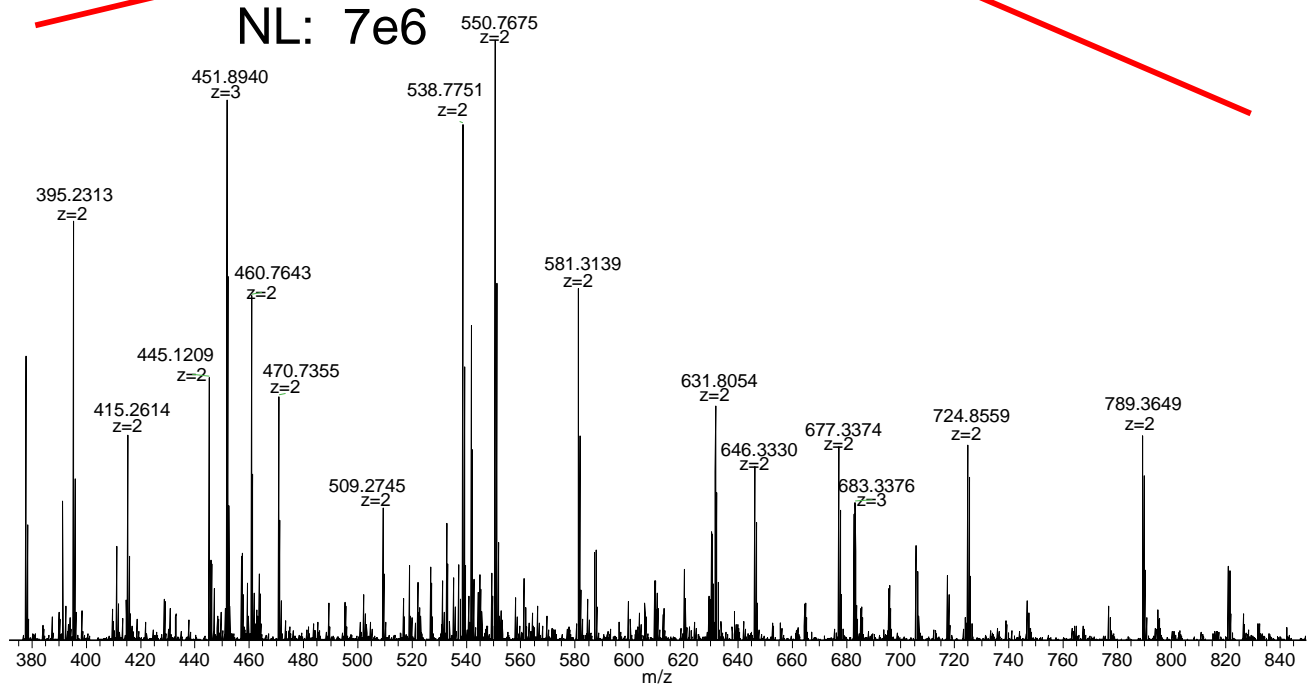
# Full MS/dd-MS<sup>2</sup> (Top N, Top Speed)



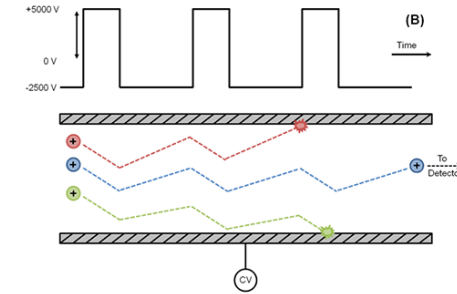
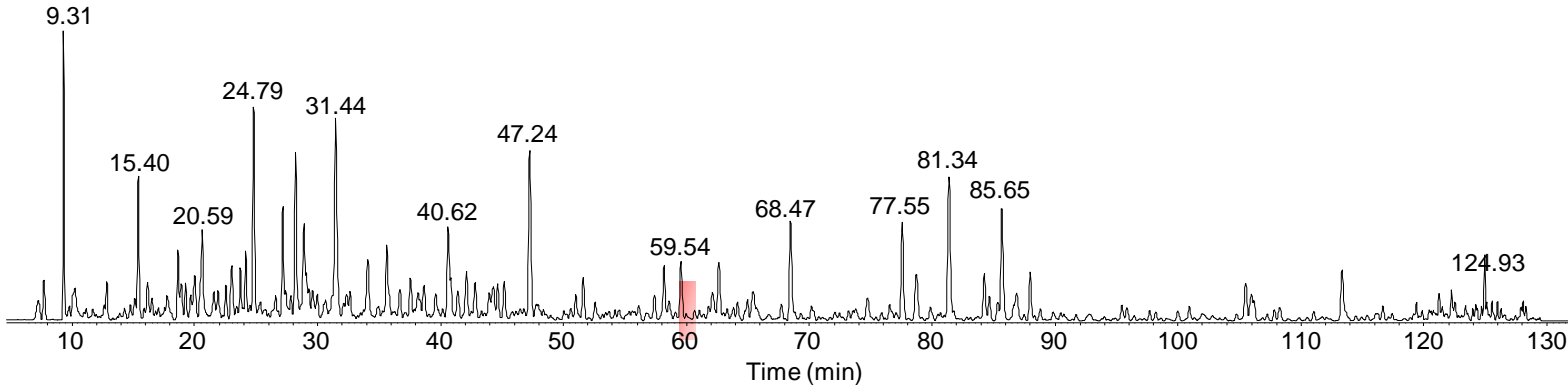
# Necílená analýza, komplexní vzorky



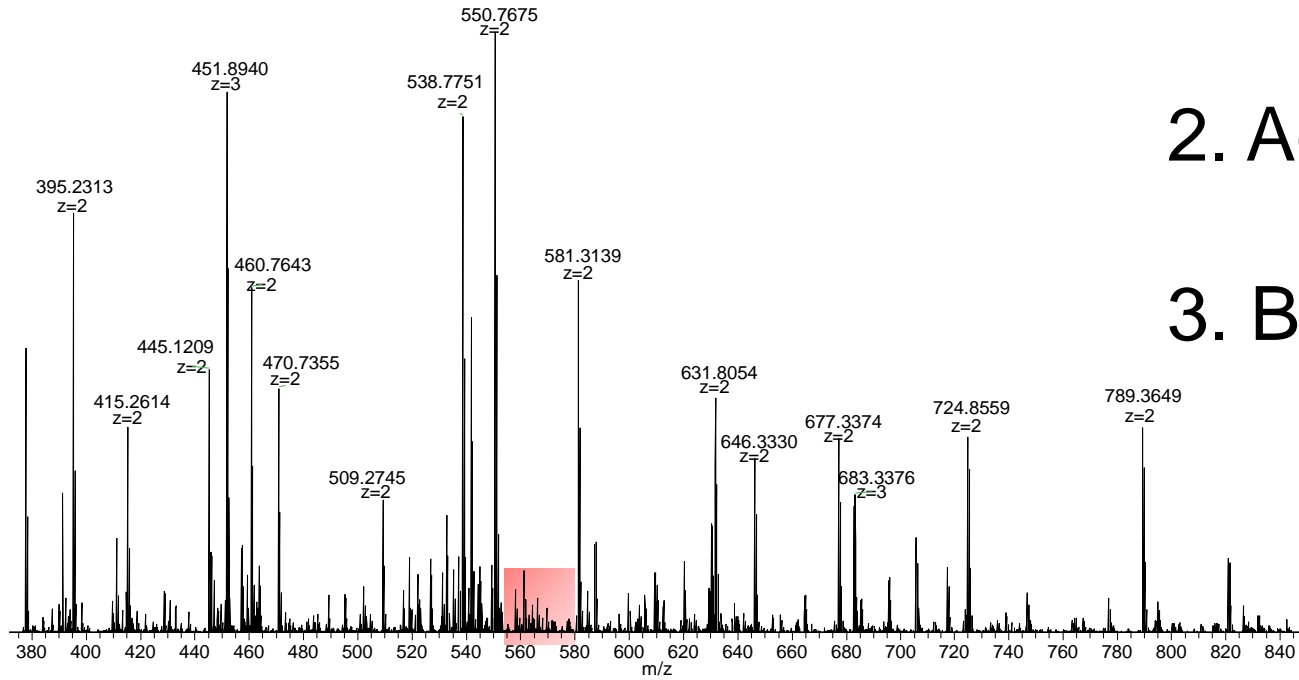
NL: 7e6



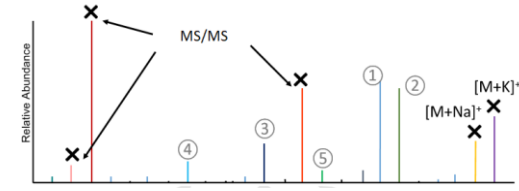
# Necílená analýza, komplexní vzorky



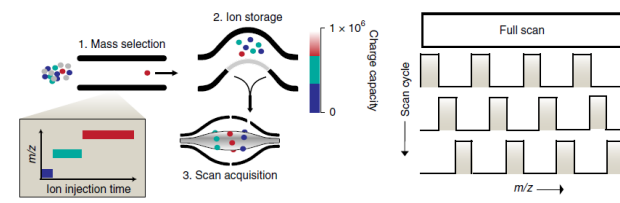
## 1. Iontová mobilita FAIMS



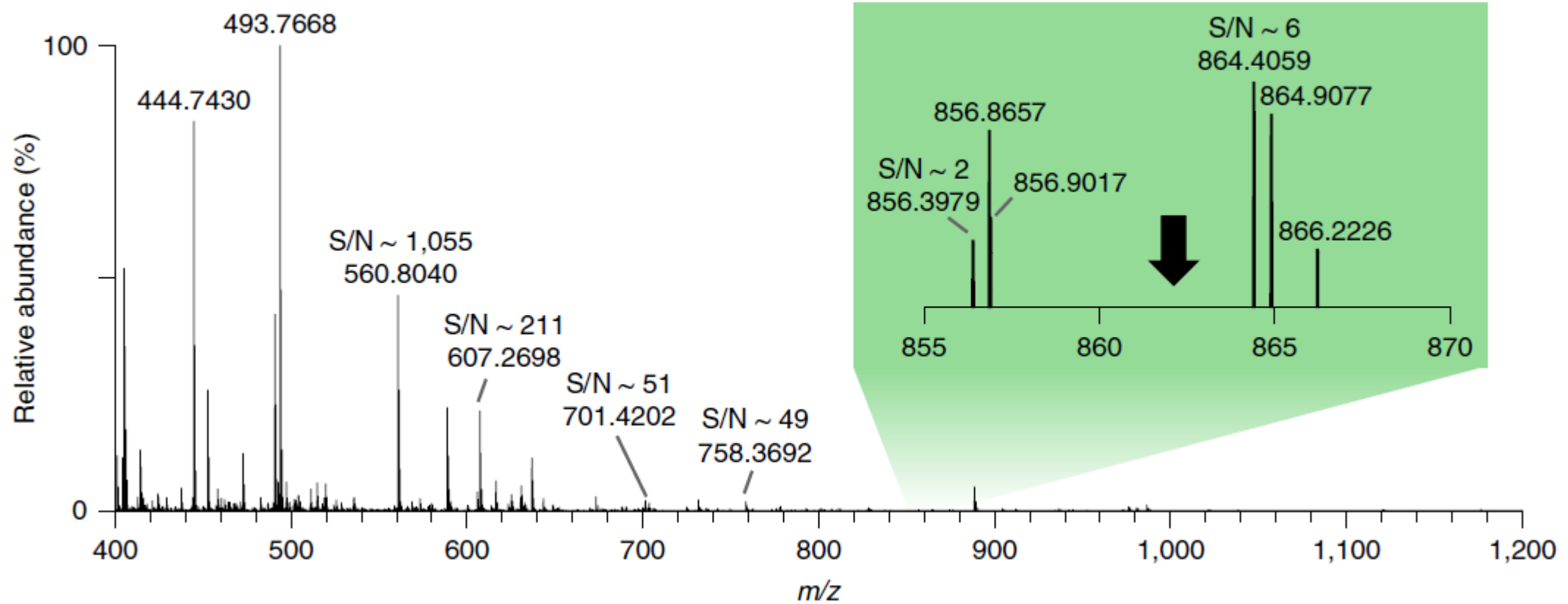
## 2. AcquireX



## 3. BoxCar



# Necílená analýza, komplexní vzorky

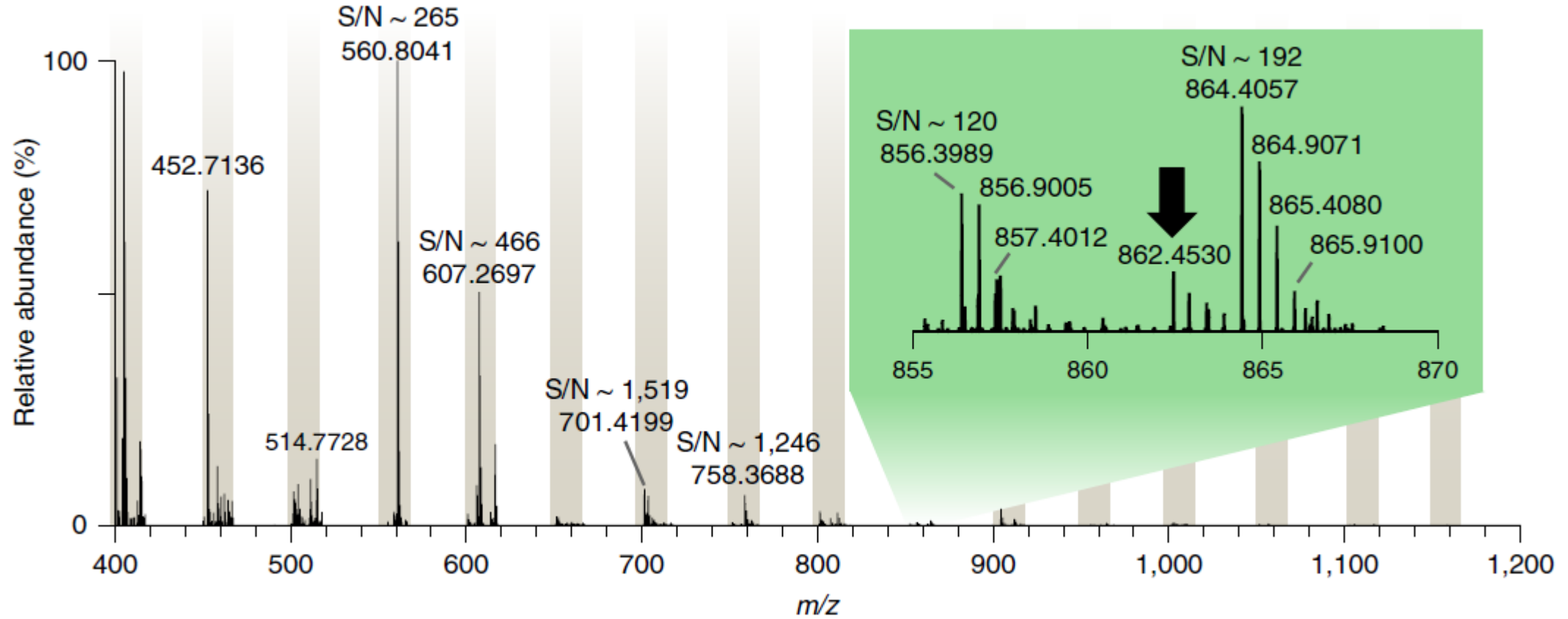


Mann et al.: Nature Methods vol. 15, 440–448 (2018)





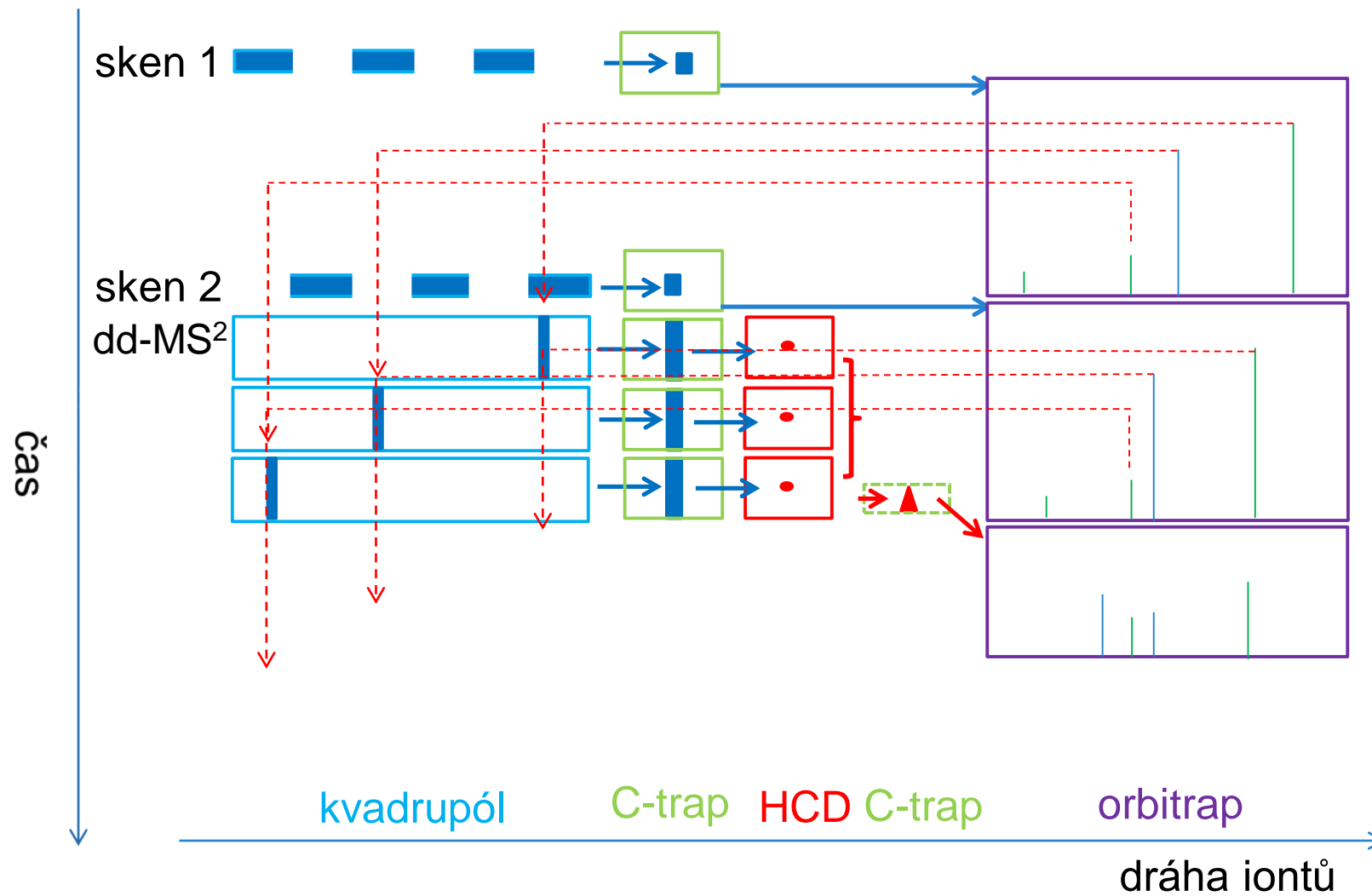
# Necílená analýza, komplexní vzorky



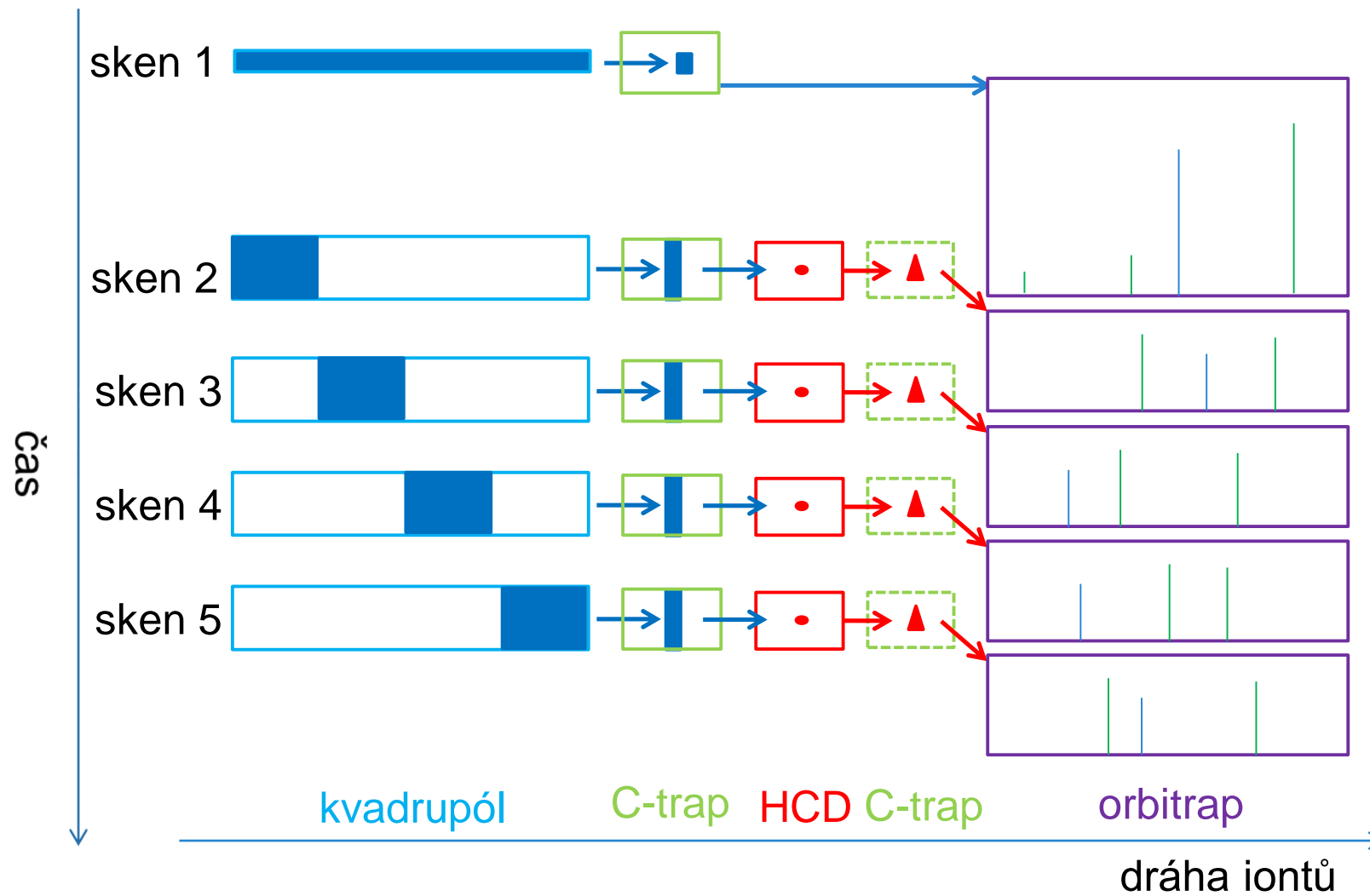
Mann et al.: Nature Methods vol. 15, 440–448 (2018)



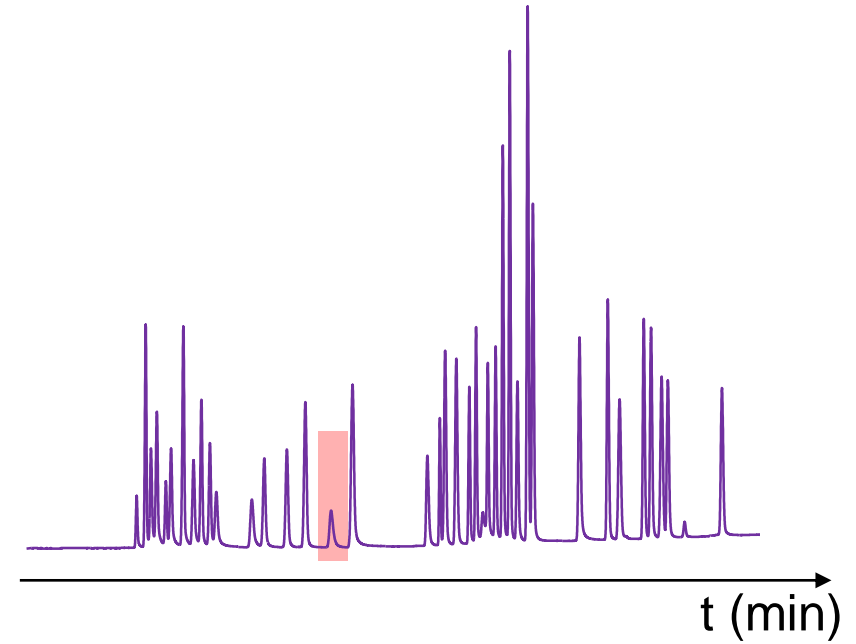
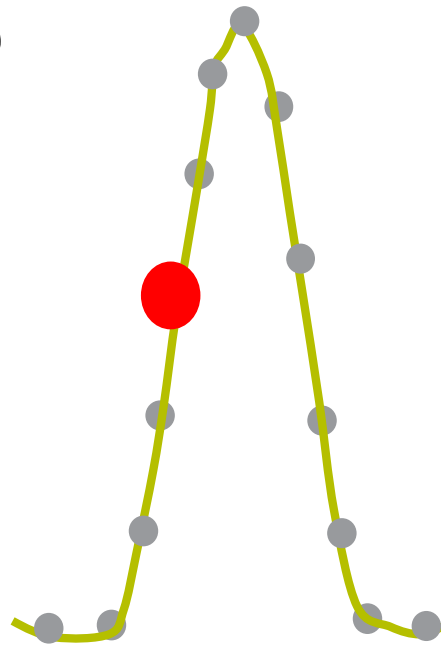
# Full MS/dd-MS<sup>2</sup> (BoxCar)



# Data independent acquisition (DIA)



- Full MS
- Full MS/AIF
- Targeted-SIM (t-SIM)
- PRM or Targeted-MS<sup>2</sup> (t-MS<sup>2</sup>)
- Full MS/dd-MS<sup>2</sup> (Top N, Top Speed)
- Data independent acquisition (DIA)





[www.pragolab.cz](http://www.pragolab.cz)

 [linkedin.com/company/pragolab-s-r-o-](https://www.linkedin.com/company/pragolab-s-r-o-)

