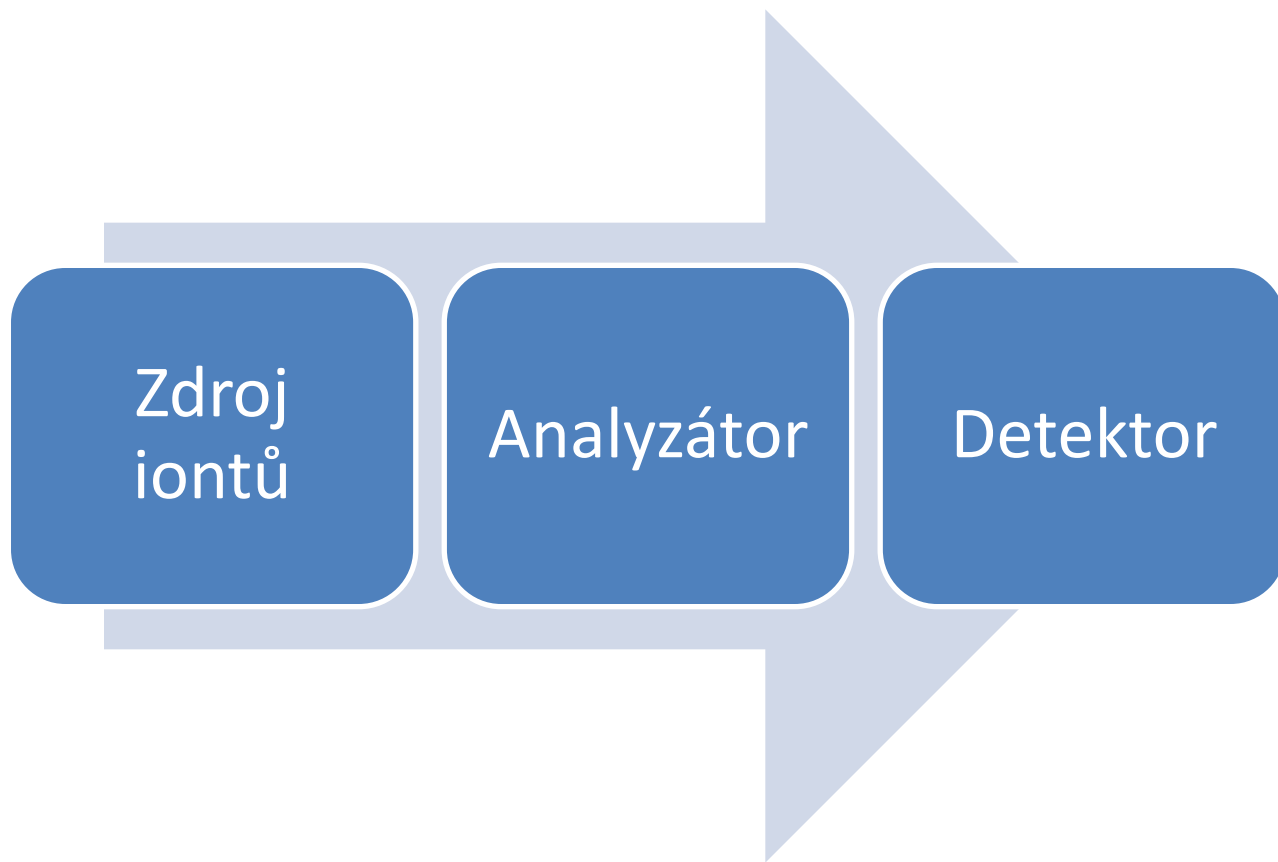


MS

Mass spectrometry

Hmotnostní spektrometrie



Zdroj iontů

- Elektronová ionizace (EI)
- Chemická ionizace (CI)
- Elektrosprejová ionizace (ESI)
- Matricí asistovaná LASERová desorpce (MALDI)
- Ionizace indukčně vázanou plazmou (ICP)

- Elektronová
- Chemická
- Elektrosprávnost
- Matricí a
- (MALDI)
- Ionizace



rpce

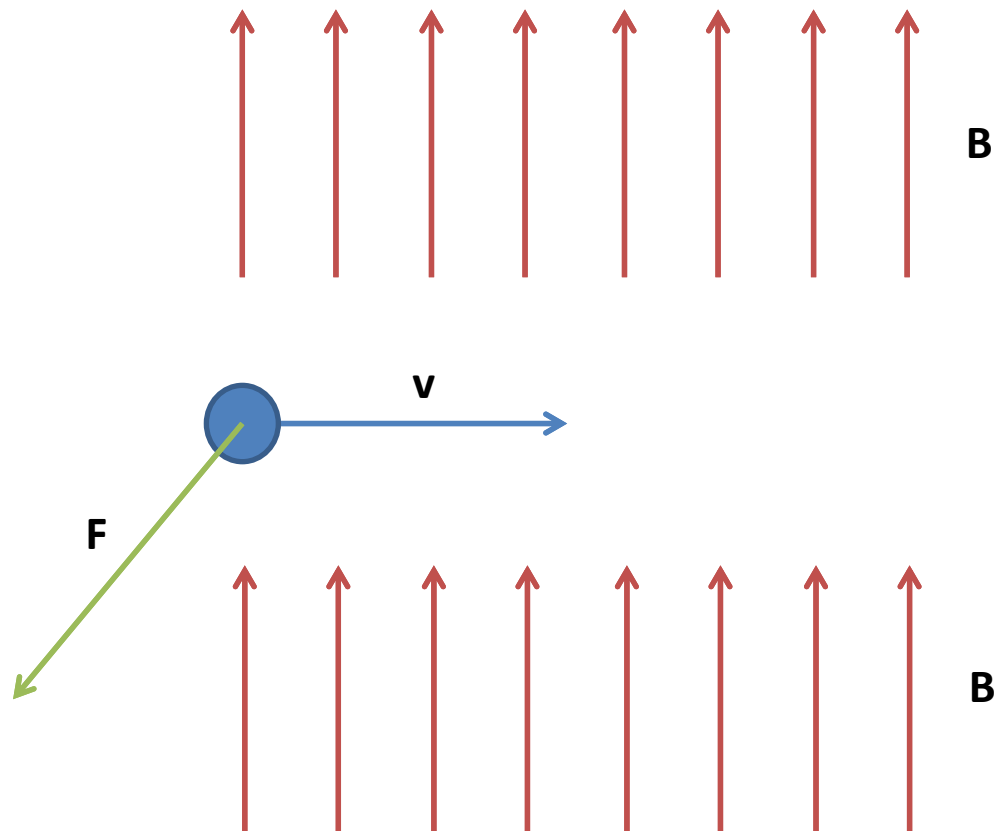
u (ICP)

$$\mathbf{F} = q\mathbf{v} \times \mathbf{B}$$

$$F = |q|vB \sin \alpha$$

$$F = |q|vB$$

$$\mathbf{F} = m\mathbf{a}$$

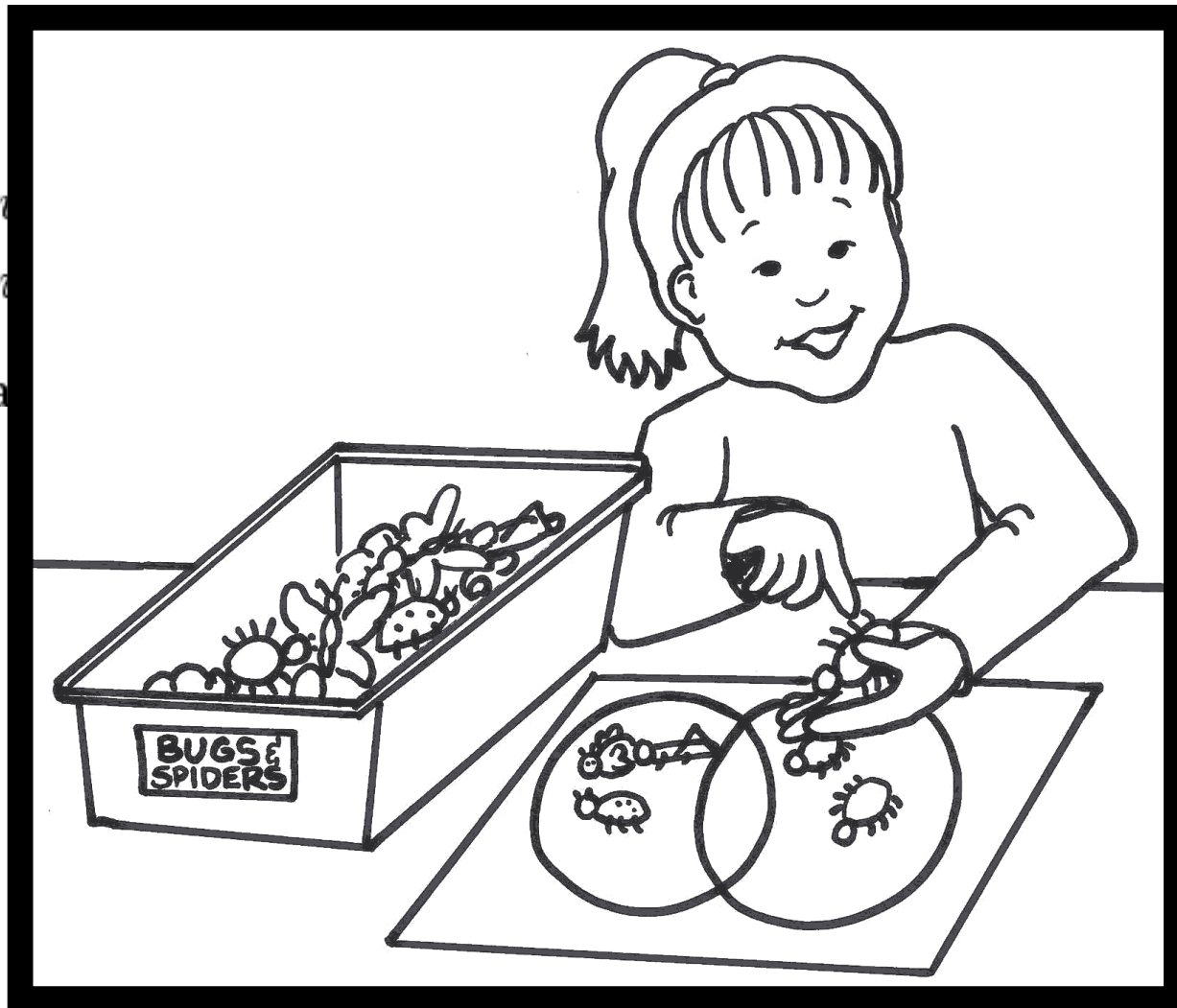


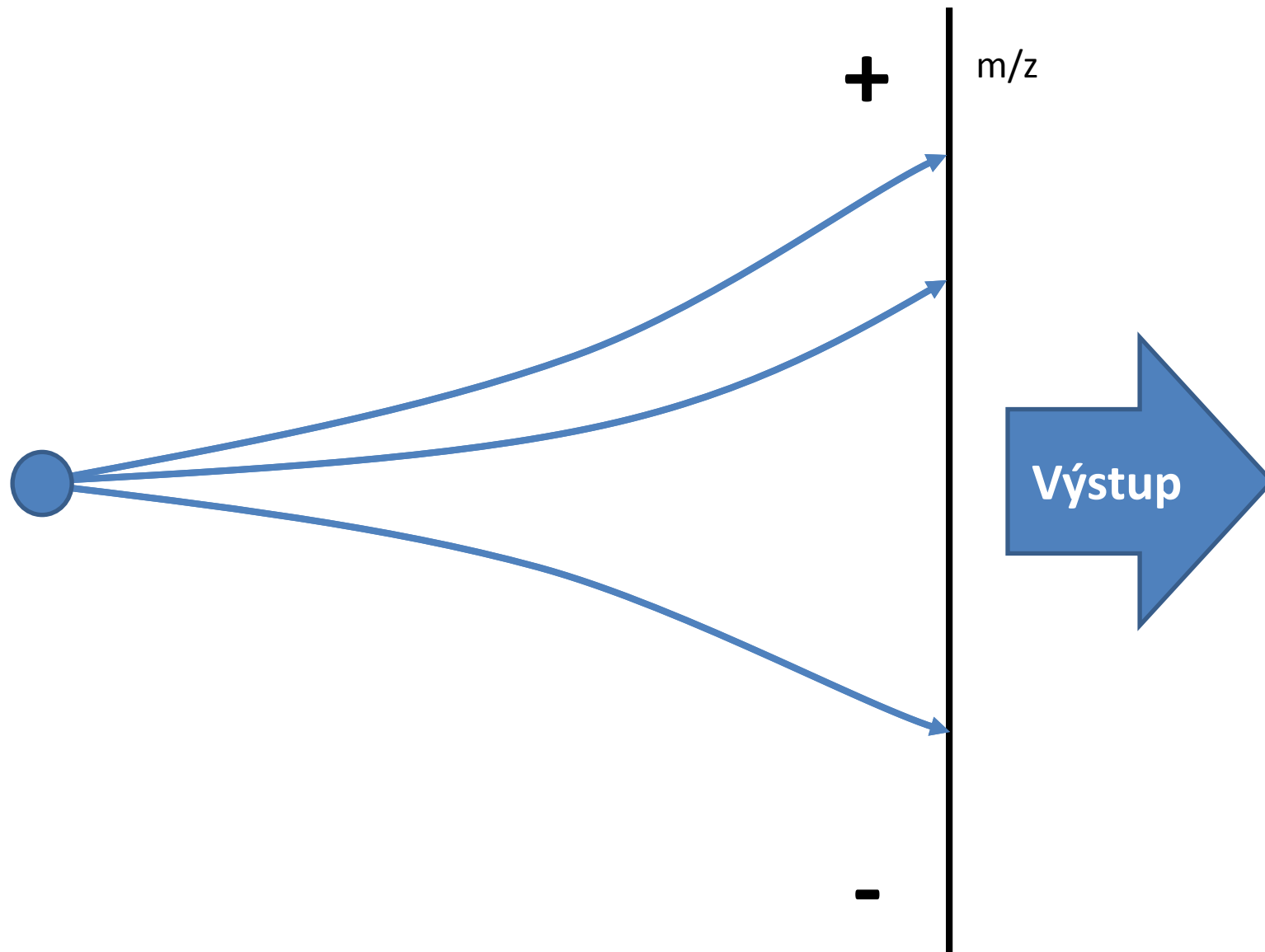
$$\mathbf{F} = q\mathbf{v}$$

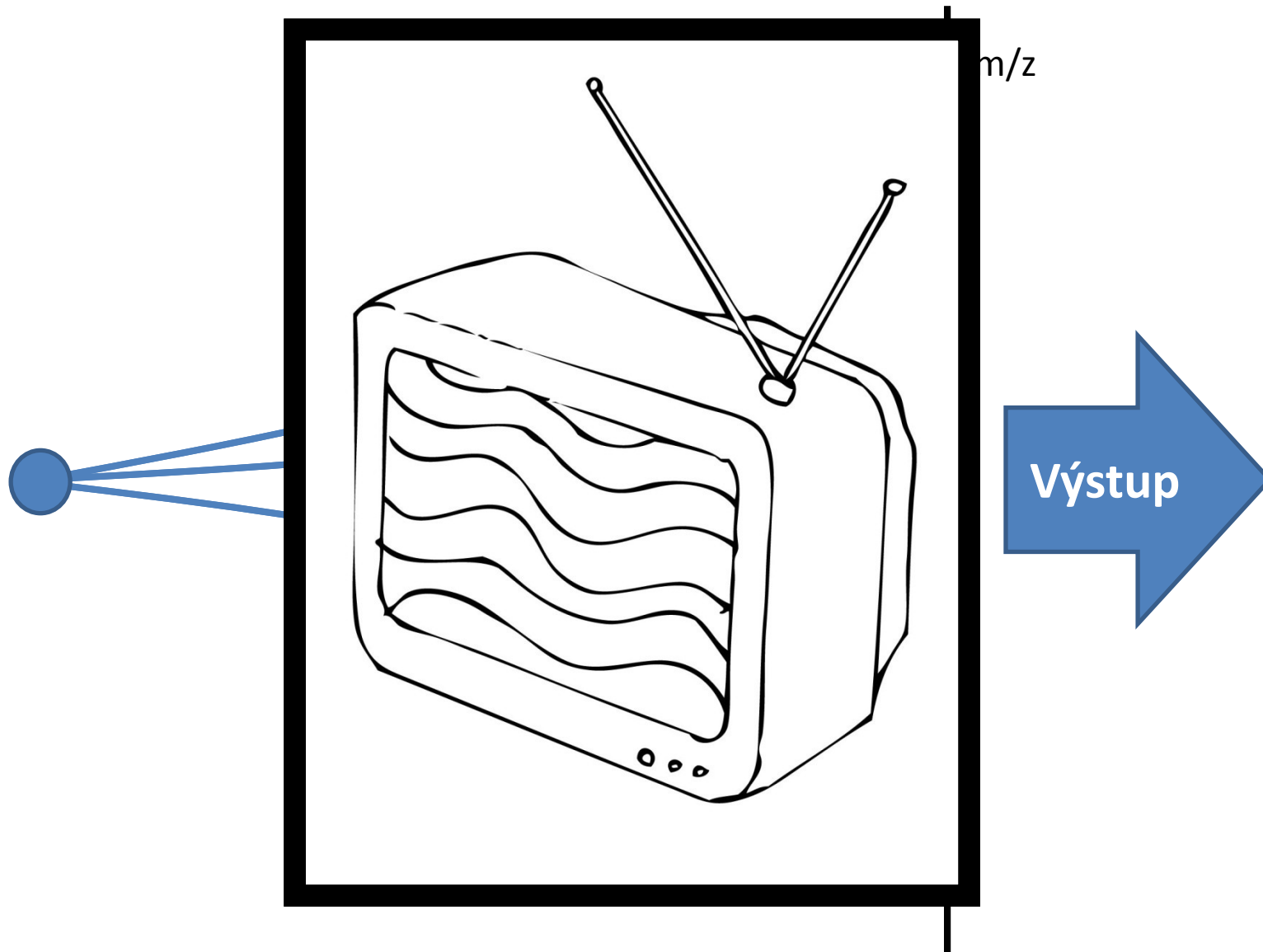
$$F = |q|v$$

$$F = |q|v$$

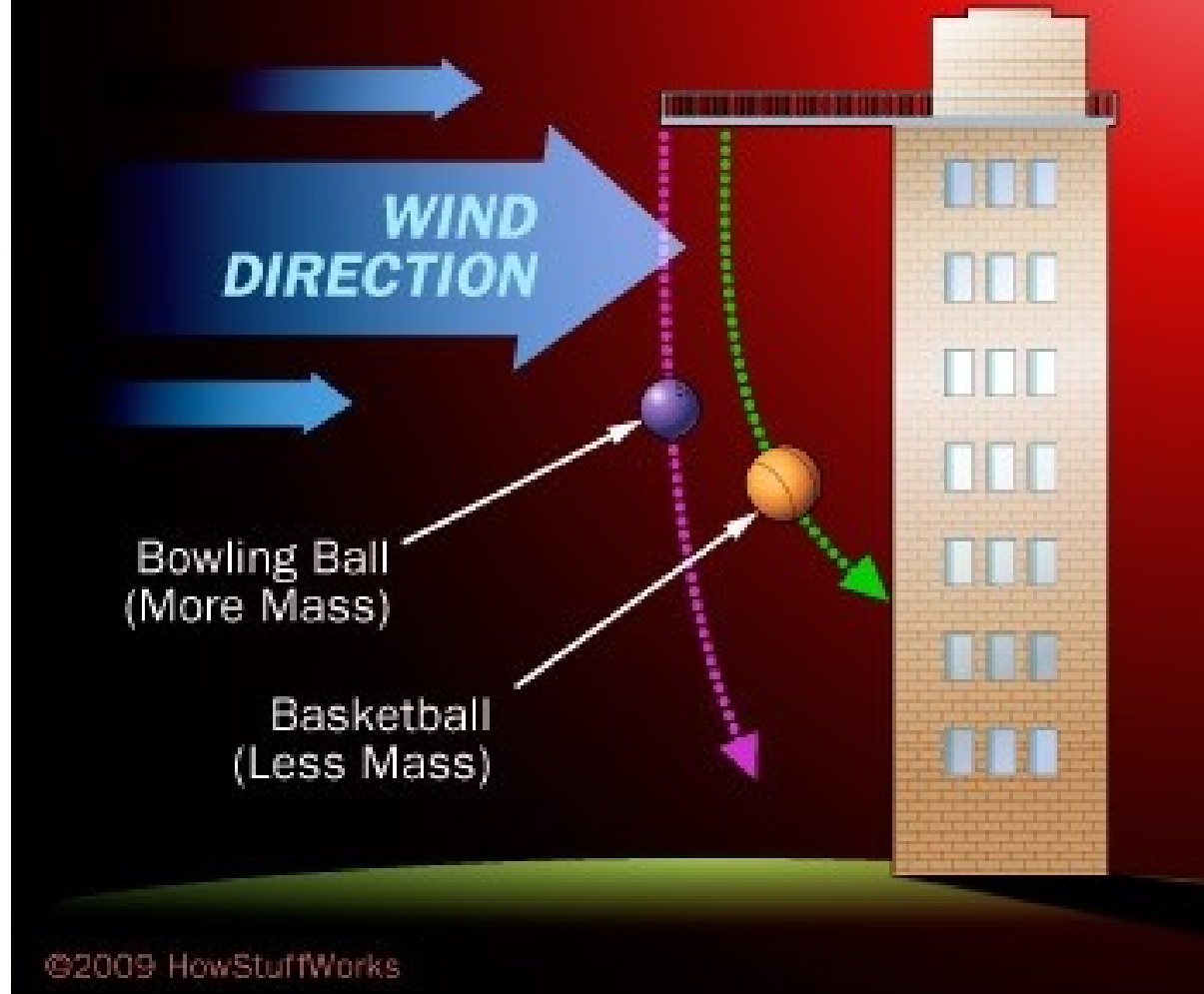
$$\mathbf{F} = m\mathbf{a}$$





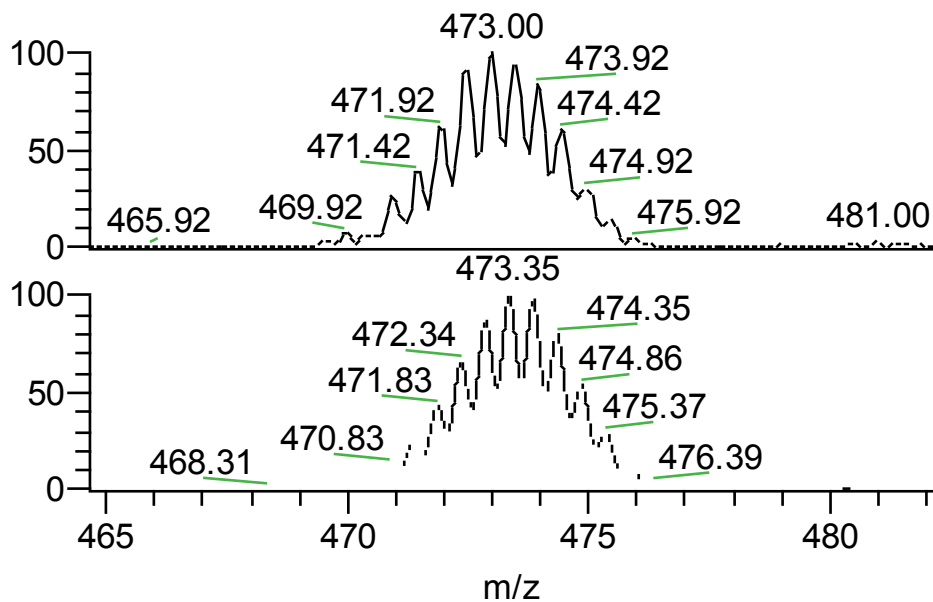
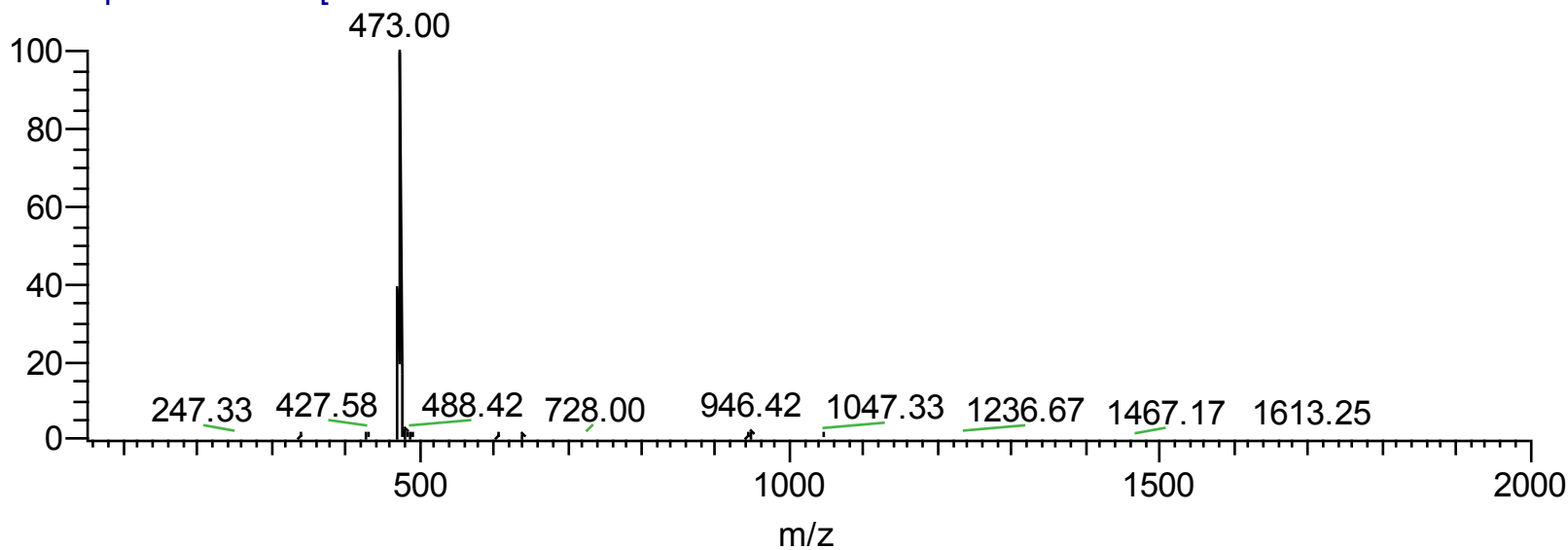


How Mass Spectrometry Works



ESI_RK3_3fr_thymin_120807085818 #1-17 RT: 0.00-0.20 AV: 17 NL: 1.98E4

T: ITMS - p ESI Full ms [50.0



NL:

1.98E4

ESI_RK3_3fr_thymin_120807085818#1-
17 RT: 0.00-0.20 AV: 17 T: ITMS - p
ESI Full ms [50.00-2000.00]

NL:

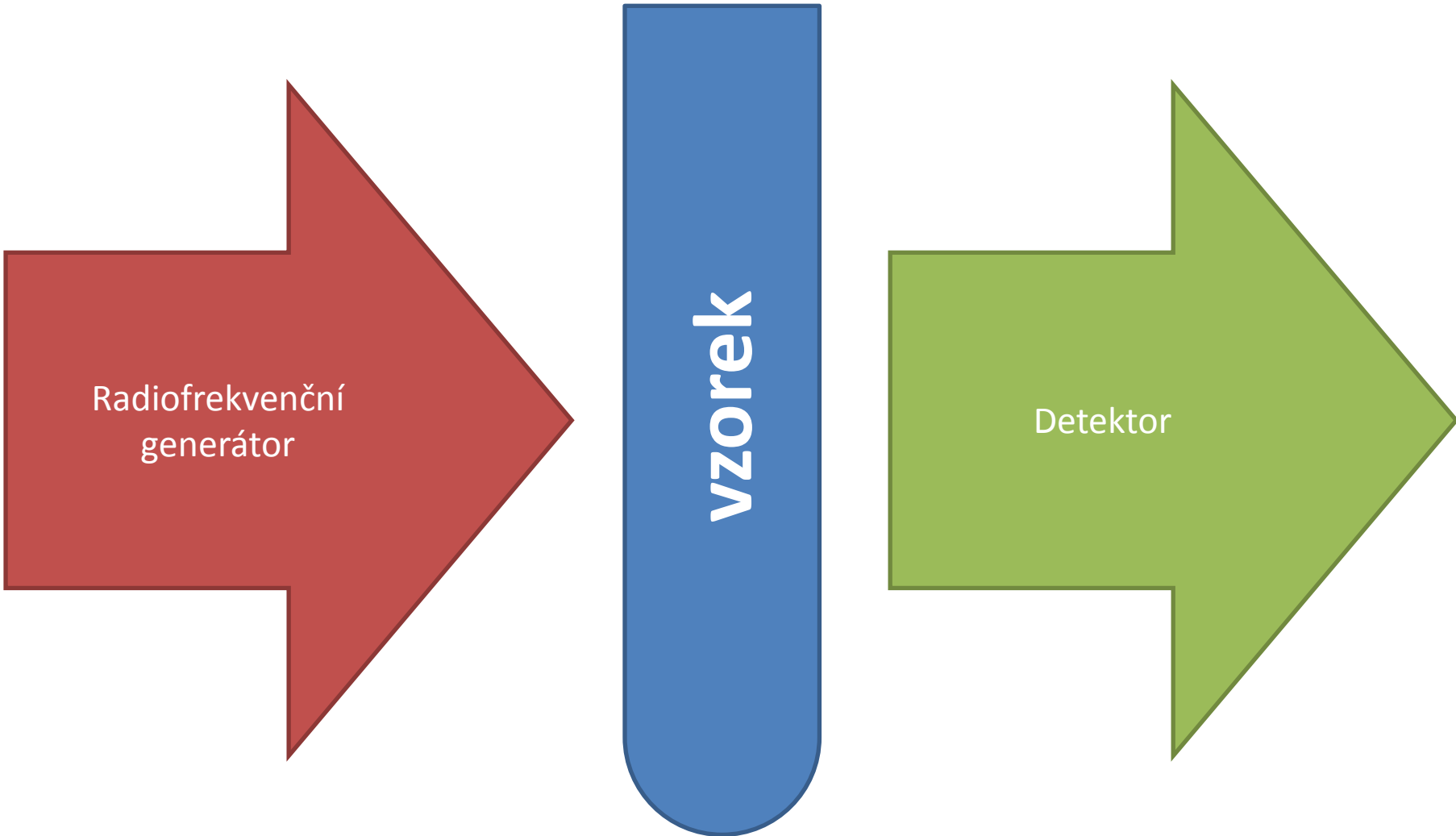
3.81E3

(B₁₈ CoC₈ H₂₉ O₂)₂ C₅ H₅ N₂ O₂:
O₆ H₆₃ C₂₁ Co₂ B₃₆ N₂
p (gss, s /p:40) Chrg 2
R: 0.37 Da @FWHM

NMR

Nuclear magnetic resonance

Nukleární magnetická rezonance



Radiofrekvenční
generátor

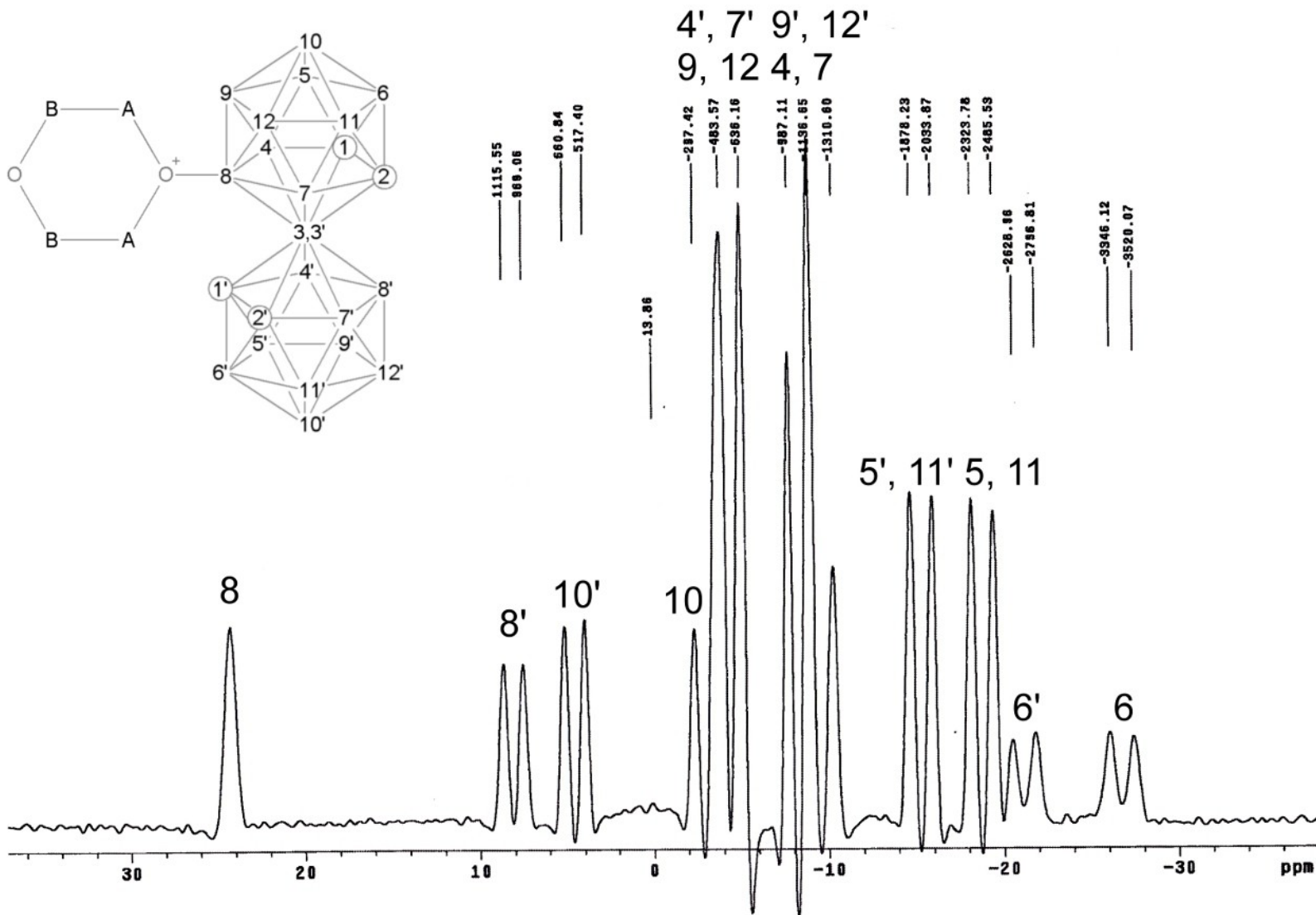
The diagram illustrates a three-stage process. On the left, a large red arrow points to the right, containing the text 'Radiofrekvenční generátor'. In the center, a blue rounded rectangle contains the text 'vzorek'. On the right, a large green arrow points to the right, containing the text 'Detektor'. The arrows and the central rectangle are arranged horizontally, suggesting a sequential flow from left to right.

vzorek

Detektor

Rac





Děkuji za pozornost