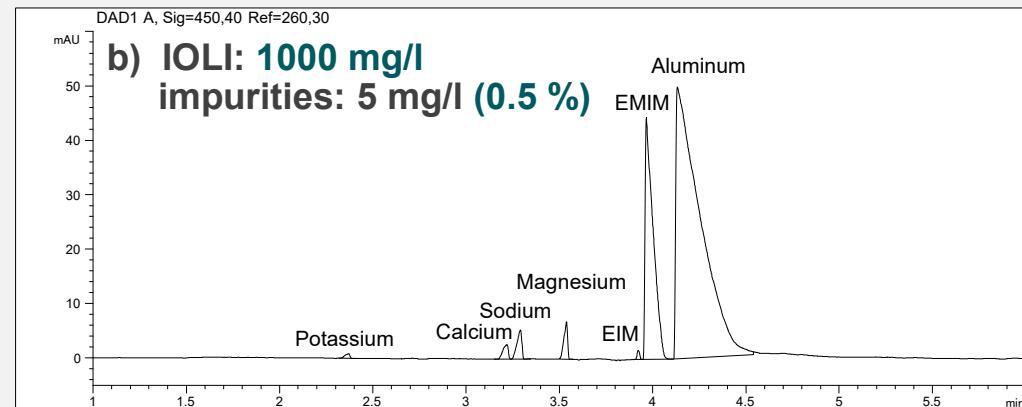
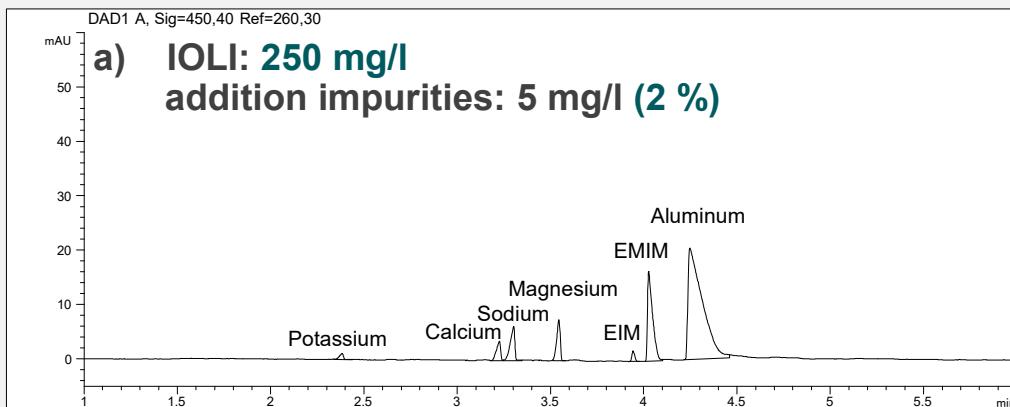


Determination of LOD and LOQ for cationic impurities in EMIM AlCl₄



(calculation: ICH guidelines: LOD for S/N=3 and LOQ for S/N=10)

- Mode: CZE
- Electrolyte: CE-Ki01
- Capillary: 50 µm ID, 64 cm
- Separation: +30 kV, 25°C
- Injection: pressure, 50 mbar, 15 s
- Detection: indirect UV, 260 nm

→NOTE:

- The higher IOLI concentration of 1000 mg/l should be used to investigate purity, as this achieves better LOD and LOQ.
- For the quantification of EMIM and aluminum, the lower IOLI concentration of 250 ppm should be used, as the resolution and peak integration are better.