

IC Application Note No. S-65

Title: Chloride and sulfate in dust

Summary: Determination of chloride and sulfate in dust using anion chromatography with conductivity detection after chemical suppression.

Sample: Dust sample

Sample Preparation: 0.1 g of dust dissolved in 100 mL c(HNO₃) = 0.02 mol/L
0.45 µm filtration

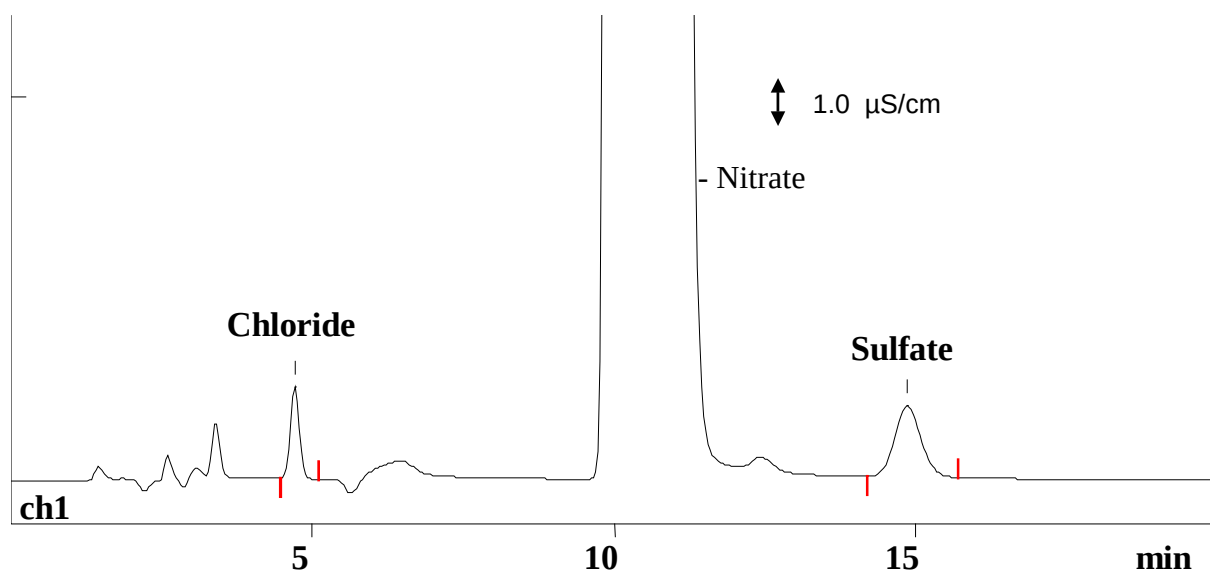
Column: 6.1006.100 Metrosep Anion Dual 2

Eluent: 2.0 mmol/L sodium hydrogencarbonate,
1.3 mmol/L sodium carbonate

Suppressor: Metrohm Suppressor Module (MSM, 50 mmol/L H₂SO₄)

Flow: 0.8 mL/min

Injection Volume: 20 µL



Results:	Chloride mg/g	Nitrate	Sulfate mg/g
	1.96	n.d.	6.48