

IC Application Note No. S-68

Title: Traces of anions in 15 % NaOH after on-line neutralisation, using the MSM

Summary: Determination of traces of fluoride, chloride, nitrate, phosphate and sulfate in 15% NaOH using anion chromatography with conductivity detection after chemical suppression after on-line sample neutralisation.

Sample: 15% NaOH

Sample Preparation: On-line sample neutralisation using the 753 Suppressor Module

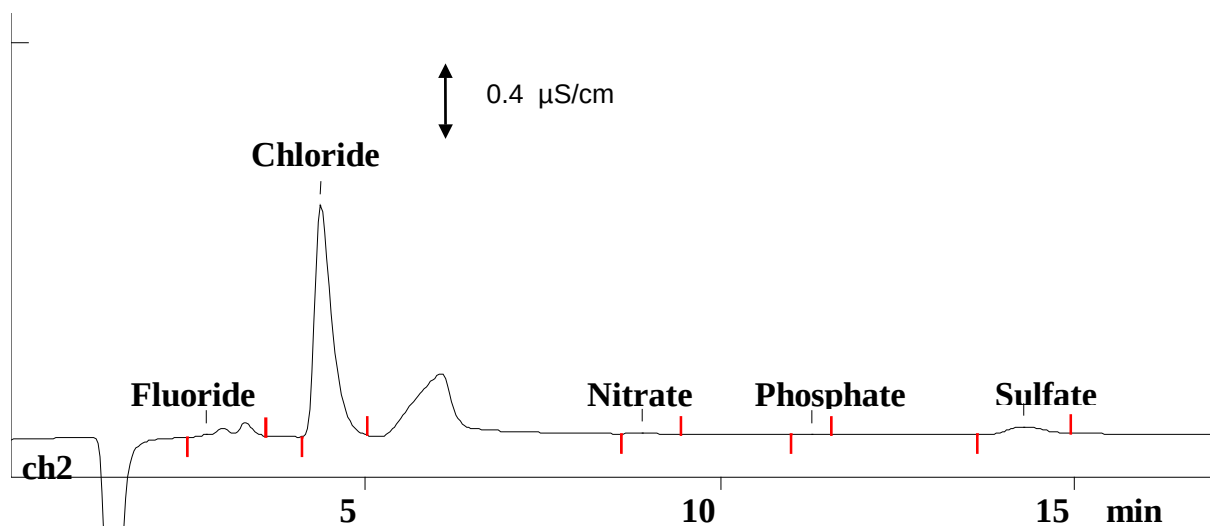
Column: 6.1006.100 Metrosep Anion Dual 2

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 onto preconcentration column



Results:	Fluoride µg/L	Chloride mg/L	Nitrate µg/L	Phosphate µg/L	Sulfate µg/L
	5.0	2.1	47	4.0	225