

IC Application Note No. S-2

Subject: Trace anions in water (fluoride, formate, cyanate, bromide, chlorate)

Summary: Determination of trace anions in an industrial water sample besides major anions using anion chromatography with conductivity detection after chemical suppression

Sample: Industrial Water

Sample Preparation: Direct injection after 0.45 µm filtration

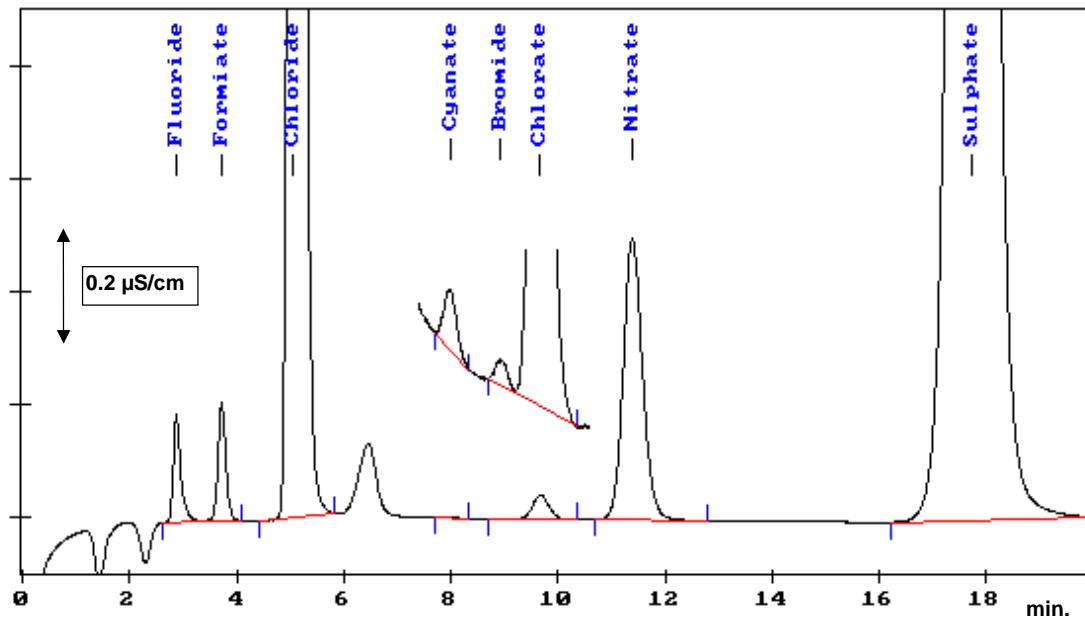
Column: 6.1006.100 Metrosep Anion Dual 2

Suppressor: Metrohm Suppressor Modul MSM

Eluent: 2 mmol/L sodium hydrogencarbonate,
1.3 mmol/L sodium carbonate

Flow: 0.8 mL/min

Injection Volume: 20 µL



RESULTS:	F ⁻ mg/L	Formate ⁻ mg/L	Cl ⁻ mg/L	OCN ⁻ mg/L	Br ⁻ mg/L	ClO ₃ ⁻ mg/L	NO ₃ ⁻ mg/L	SO ₄ ²⁻ mg/L
	0.12	0.43	18.6	0.008	0.004	0.27	2.44	45.7