

IC Application Note No. S-157

Title: Trace anions in boiler feed water containing 10 mg/L ammonia

Summary: Determination of traces of fluoride, chloride, bromide, nitrate and sulfate in a boiler feed water containing 10 mg/L ammonia using anion chromatography with conductivity detection after chemical suppression and inline sample preparation by cation exchange.

Sample: Boiler feed water

Sample Preparation: Preconcentration of 10 mL sample after cation exchange using 793 IC Sample Prep Module

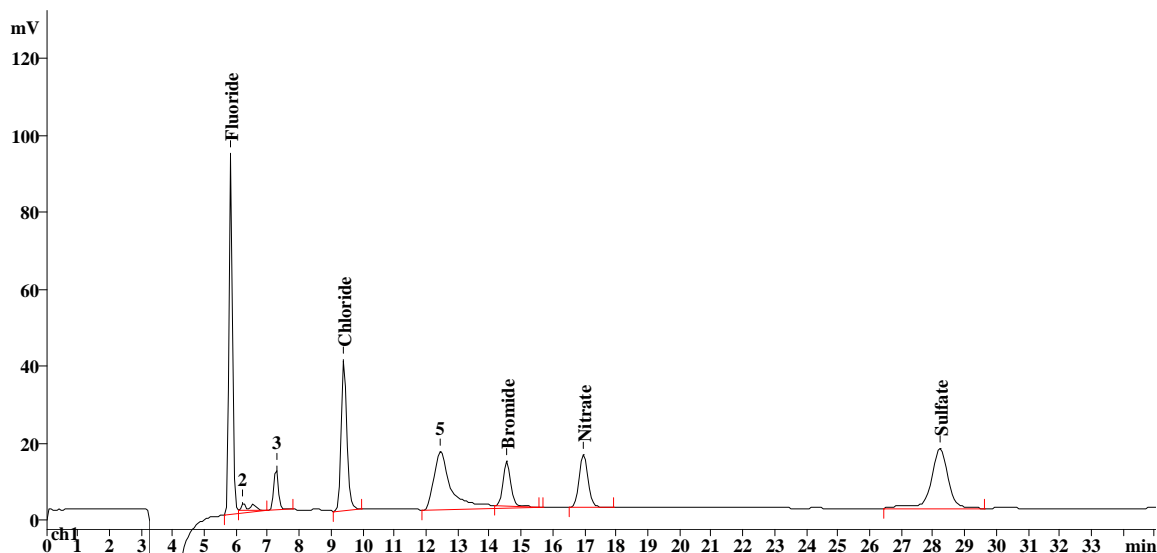
Column: 6.1006.530 Metrosep A SUPP 5 – 250
6.1006.310 Metrosep A PCC 1 HC

Eluent: 1.0 mmol/L sodium hydrogen carbonate
3.2 mmol/L sodium carbonate

Suppressor: Metrohm Suppressor Module (MSM, 50 mmol/L H_2SO_4)
793 IC Sample Prep Module (50 mmol/L HClO_4)

Flow: 0.7 mL/min

Injection Volume: 10 mL (after preconcentration)



Results:	Fluoride, chloride, bromide, nitrate, sulfate µg/L
	1.0