

IC Application Note No. S-268

Title: Halogens in petroleum coke after microwave combustion

Summary: Determination of fluoride, chloride, bromide and iodide in petroleum coke after microwave combustion using anion chromatography with conductivity detection after sequential suppression.

Sample: Petroleum coke

Sample Preparation: Microwave combustion and subsequent injection after Inline Matrix Elimination (transfer solution: ultrapure water with 7.5% acetone)

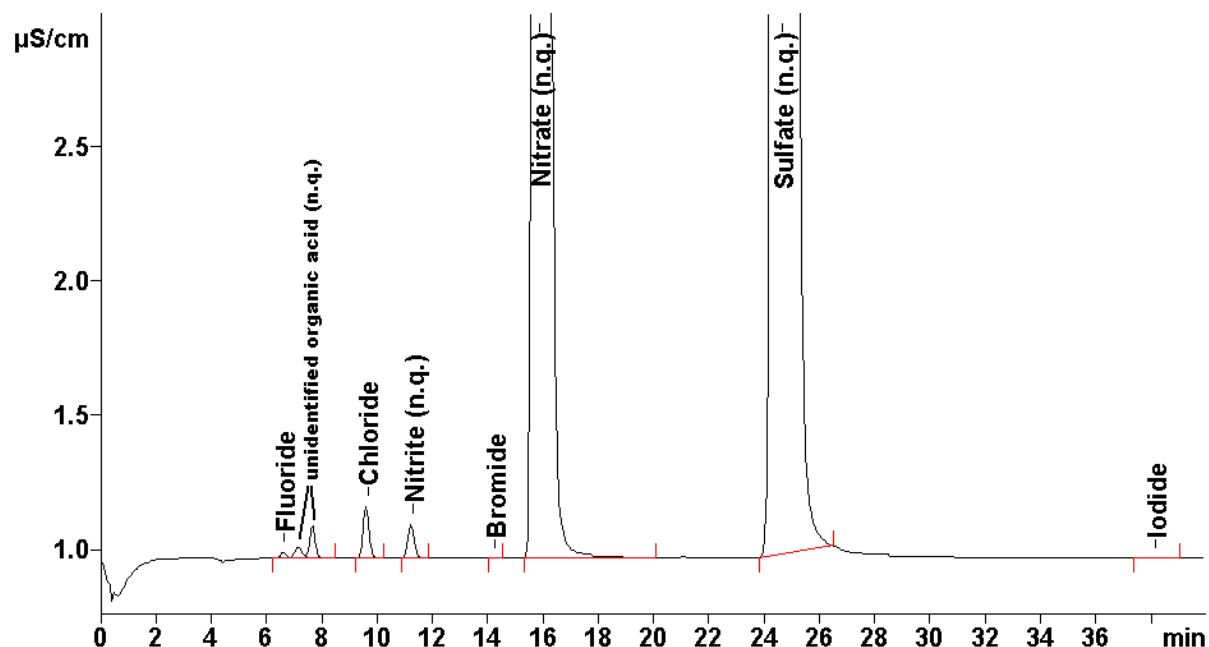
Column: 6.1006.530 Metrosep A Supp 5 – 250

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

Suppressor: Sequential suppression (MSM: 50 mmol/L H₂SO₄)

Flow: 0.7 mL/min

Injection Volume: 10 µL



Results:	Fluoride µg/g	Chloride µg/g	Bromide µg/g	Iodide µg/g
	2.3	30.2	< 1	2.8