

IC Application Note No. C-130

Title: Cations in offshore effluent

Summary: Determination of lithium, sodium, ammonium, potassium, manganese, calcium, magnesium, strontium and barium in an offshore effluent using cation chromatography with direct conductivity detection.

Sample: Offshore effluent

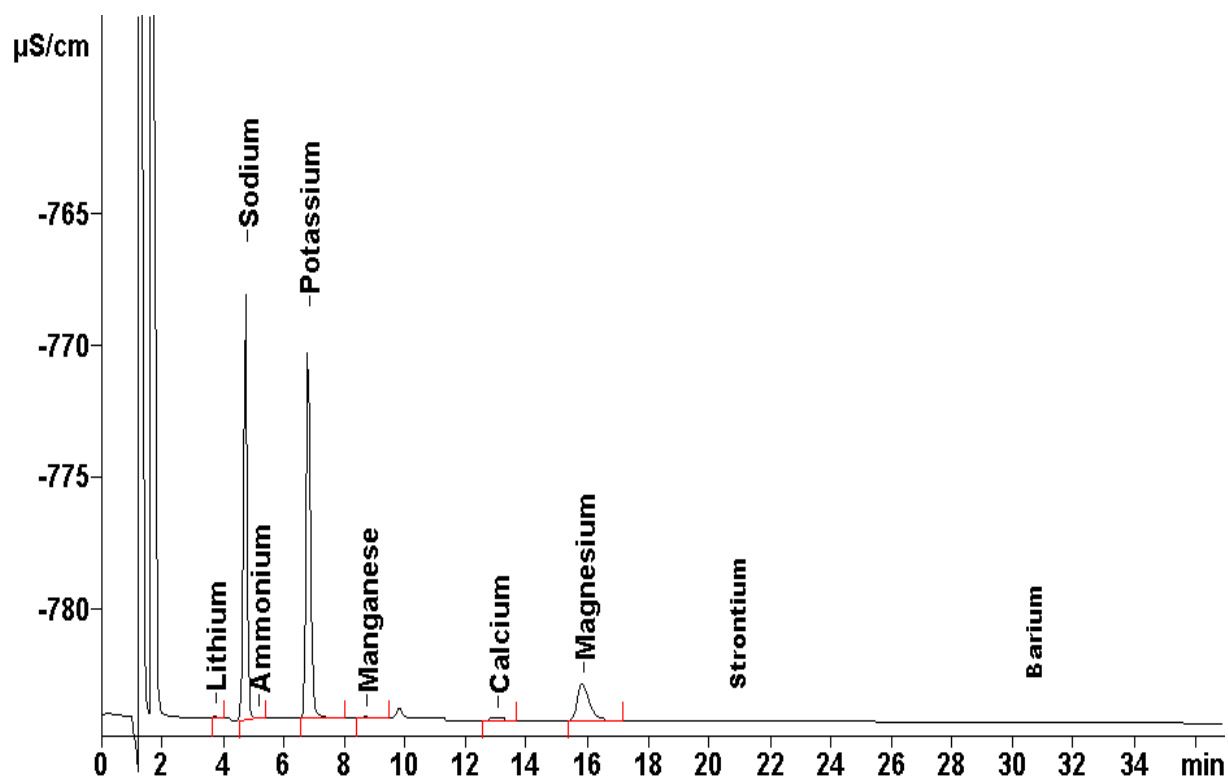
Sample Preparation: Dilution 1:1000 with ultrapure water

Column: 6.1050.420 Metrosep C 4 – 150

Eluent: 2.0 mmol/L nitric acid, 0.75 mmol/L dipicolinic acid

Flow: 0.9 mL/min

Injection Volume: 20 µL



Results:	Li ⁺ mg/L	Na ⁺ mg/L	NH ₄ ⁺ mg/L	K ⁺ mg/L	Mn ²⁺ mg/L	Ca ²⁺ mg/L	Mg ²⁺ mg/L	Sr ²⁺ mg/L	Ba ²⁺ mg/L
	20	9'202	11.4	18'837	141	142	1'546	n.d.	n.d.