

# IC Application Note No. S-280

**Title:** Ten anions in an offshore effluent

**Summary:** Determination of acetate, chloride, nitrite, bromide, nitrate, phosphate, sulfate, oxalate, fumarate and molybdate using anion chromatography with conductivity detection after chemical suppression.

**Sample:** Offshore effluent

**Sample Preparation:** Dilution 1:1000 with ultrapure water

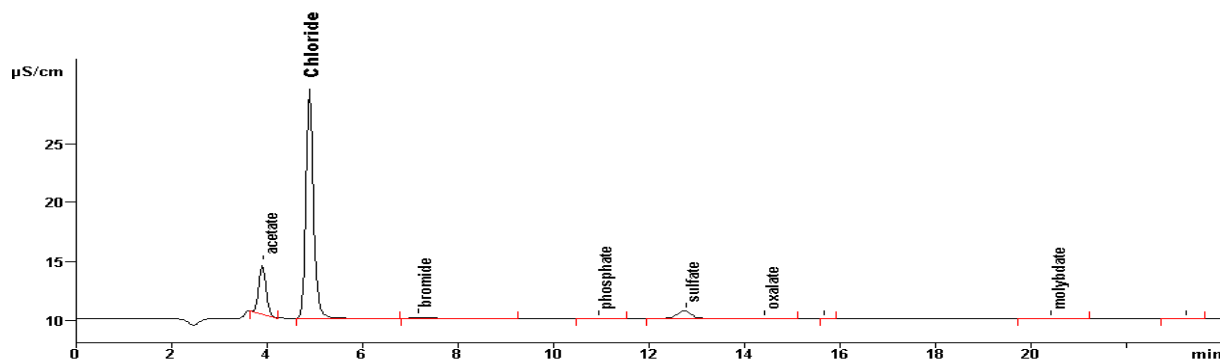
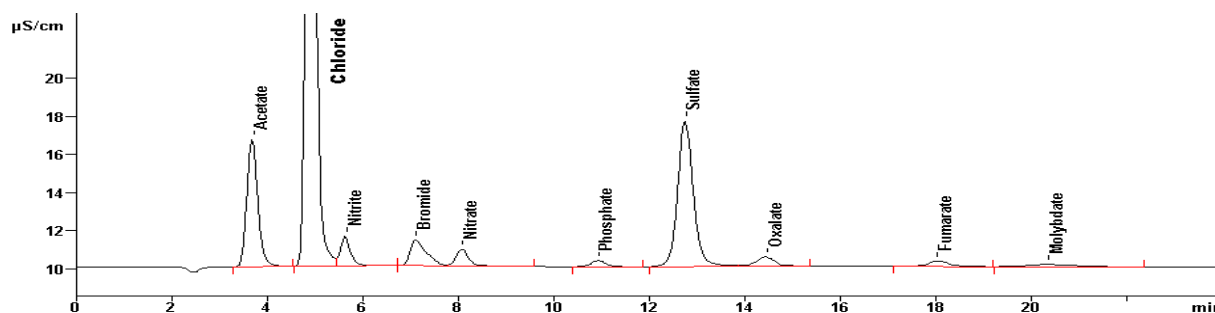
**Column:** 6.1006.520 Metrosep A Supp 5 – 150

**Eluent:** 3.2 mmol/L sodium carbonate  
1.0 mmol/L sodium hydrogen carbonate, 5% acetone

**Suppressor:** Metrohm Suppressor Module MSM (100 mmol/L H<sub>2</sub>SO<sub>4</sub>)

**Flow:** 0.7 mL/min

**Injection Volume:** 20 µL



<b>Results:</b>	Acetate mg/L	Chloride mg/L	Nitrite mg/L	Bromide mg/L	Nitrate mg/L
	<b>32'561</b>	<b>14'993</b>	<b>n.d.</b>	<b>568</b>	<b>n.d.</b>
	Phosphate mg/L	Sulfate mg/L	Oxalate mg/L	Fumarate mg/L	Molybdate mg/L
	<b>15.7</b>	<b>1'955</b>	<b>89.6</b>	<b>n.d.</b>	<b>22.7</b>

