VA Application Note No. V-81

Title:	**Copper, iron and vanadium in sodium chloride**

Summary:	Copper, iron and vanadium can be determined in salt samples in the µg/kg concentration range by adsorptive stripping voltammetry (AdSV) at the HMDE. No sample preparation is necessary.

Sample:	Pure NaCl
Sample preparation:	NaCl is dissolved in water

Copper, iron and vanadium:		
Electrolyte:	PIPES buffer with catechol	
AE:	Pt	
RE:	Ag/AgCl/KCl (3mol/L)	
Parameters:	DPAdSV at HMDE	
	Deposition:	0 V (60 s)
	Determination:	0 V to –800 mV
	Peak potential Cu:	–160 mV
	Peak potential Fe:	–340 mV
	Peak potential V:	–600 mV

Results:	Cu	Fe	V
	79 µg/kg	305 µg/kg	4.7 µg/kg

Determination of copper, iron, vanadium