VA Application Note No. V- 39

Title:	**Zinc, cadmium, lead and copper in whiskey after digestion**

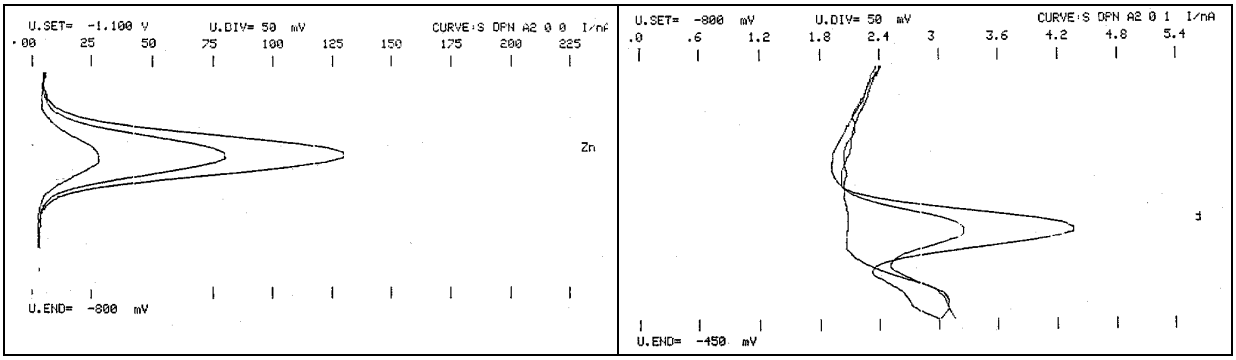
***Summary*:**	Determination of Zn, Cd, Pb and Cu in whiskey after UV digestion.

Sample:	Whiskey 40% v/v
Sample Preparation:	The alcohol is evaporated by heating with a Bunsen burner. Afterwards the solution is diluted with high purity water and digested with UV.

Zinc, cadmium, lead and copper:	
Electrolyte:	NH_4Ac buffer, pH = 4.6
AE:	Pt
RE:	Ag/AgCl/KCl 3M
Parameters:	DPASV (+50 mV), HMDE U_{meas} = -1100 mV (90s), U_{start} = -1100 mV, U_{end} = +100 mV Ep(Zn) = -960 mV, Ep(Cd) = -560 mV, Ep(Pb) = -360 mV, Ep(Cu) = -50 mV

Results:	**Zn** µg/L	**Cd** µg/L	**Pb** µg/L	**Cu** µg/L
	120	***/***	**168**	**141**

Determination of zinc — Determination of cadmium



Determination of lead	Determination of copper