

VA Application Note No. V- 6

Title:	Cadmium, lead and antimony in acetic acid
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Summary:	Determination of Cd, Pb and Sb in acetic acid
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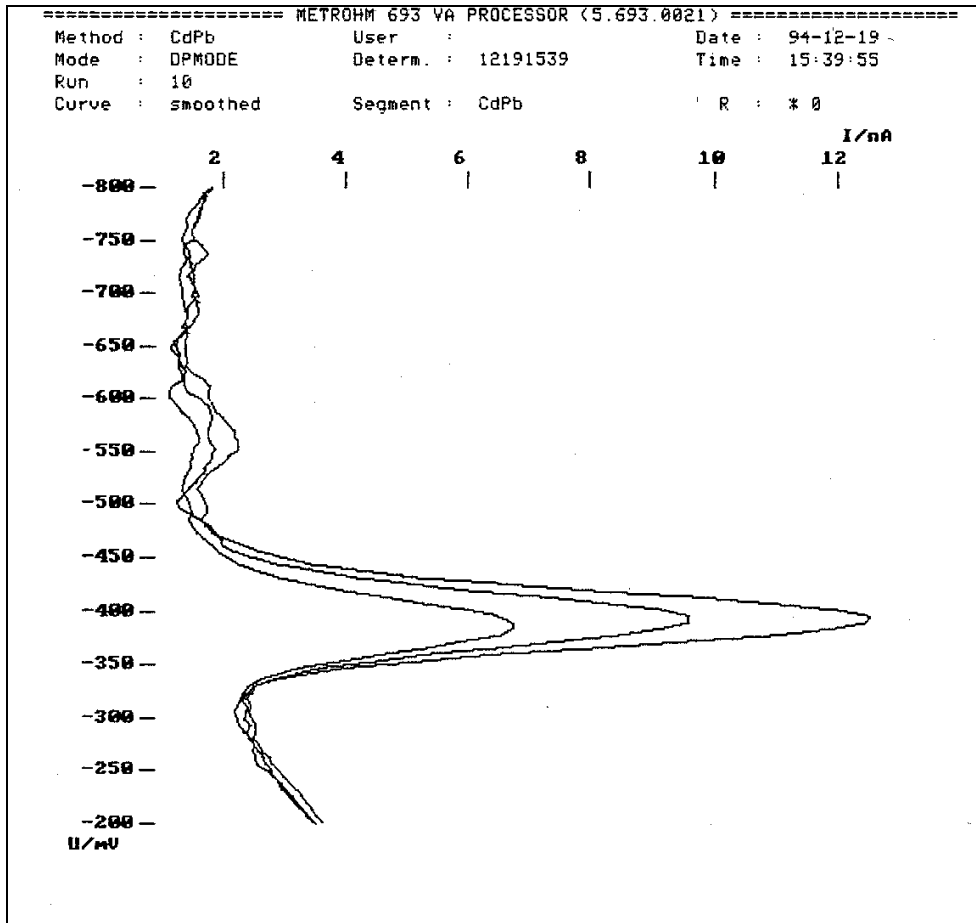
Sample:	Acetic acid
Sample Preparation:	none

Cadmium and lead:	
Electrolyte:	NaCH ₃ COO
AE:	Pt
RE:	Ag/AgCl/KCl 3M
Parameters:	DPASV (+50 mV), HMDE $U_{\text{meas}} = -800 \text{ mV}$ (90s), $U_{\text{start}} = -800 \text{ mV}$, $U_{\text{end}} = -200 \text{ mV}$ $E_p(\text{Cd}) = -560 \text{ mV}$, $E_p(\text{Pb}) = -400 \text{ mV}$

Antimony detection in the same vessel:	
Electrolyte:	HCl 30%
AE:	Pt
RE:	Ag/AgCl/KCl 3M
Parameters:	DPASV (+50 mV), HMDE $U_{\text{meas}} = -400 \text{ mV}$ (180s), $U_{\text{start}} = -450 \text{ mV}$, $U_{\text{end}} = -70 \text{ mV}$ $E_p(\text{Sb}) = -150 \text{ mV}$

Results:	Cd ng/L	Pb µg/L	Sb µg/L
	41.2	3.4	<1

Determination of cadmium and lead



Determination of antimony

