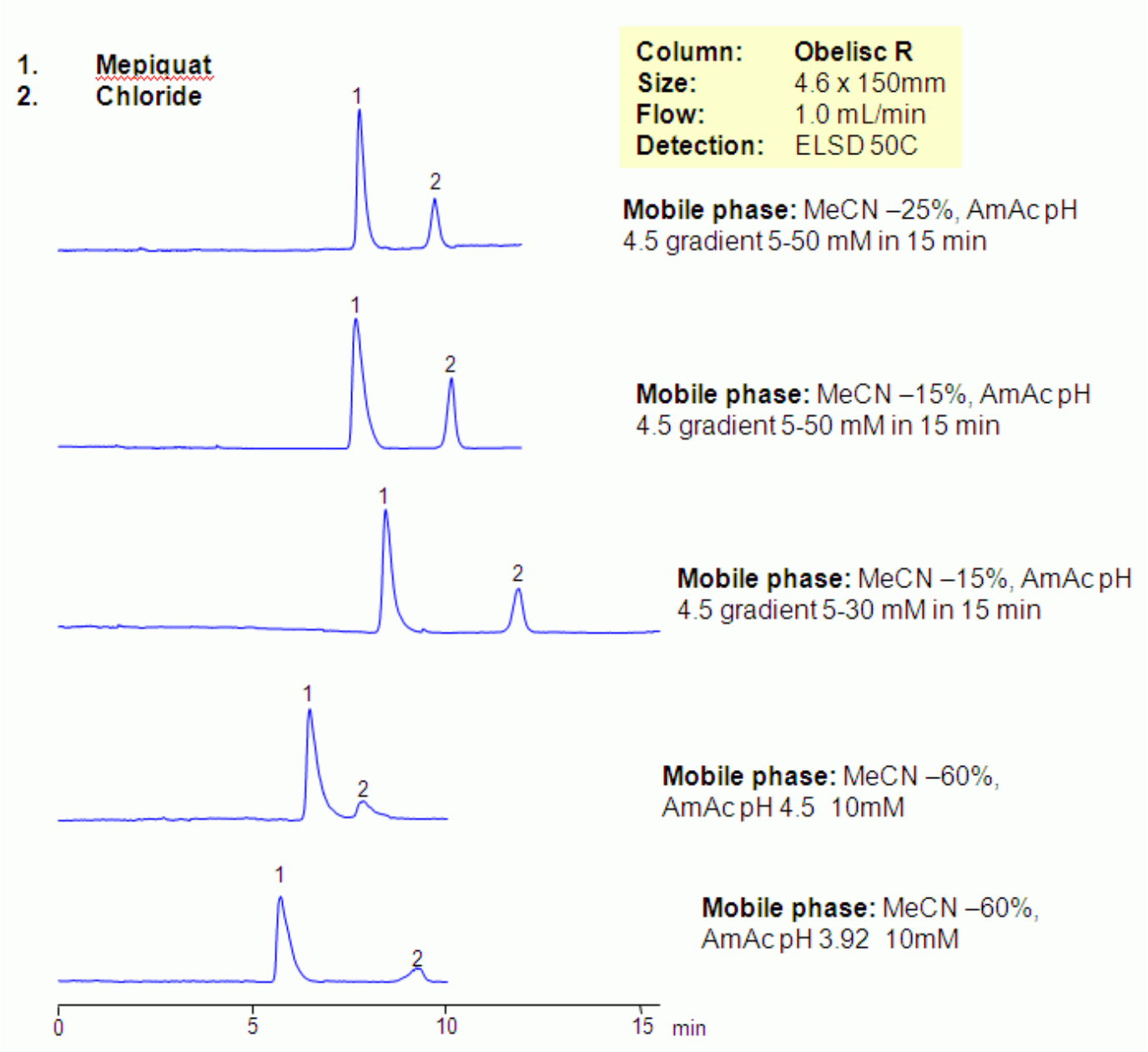
HPLC Separation of Mepiquat on Obelisc R Column

https://sielc.com/Application-Separation-of-Mepiquat-on-Obelisc-R-Column

Chromatogram



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Description

Mepiquat is a plant growth regulator that is monitored by EPA in water. It is a quaternary amine that is very polar in nature. Mepiquat and other hydrophilic amines are not retained on reversed-phase columns, and produce poor peak shape due to residual silanol interactions. Ion-pairing reagent is required to retain mepiquat. Ion-pairing reagents are not compatible with LC/MS detection and most environmental application require high sensitivity methods to determine very low level of contaminants. Obelisc R mixed-mode column can be used for EPA methods for determination of common pesticides, herbicides and insecticides where analysis of very polar ionic compounds is required.

Method Parameters

Mobile Phase	MeCN/H2O
Buffer	AmAc
Flow Rate	1.0 ml/min
Detection	ELSD 50C
Class of Compounds	Grow regulator, Hydrophilic, Ionizable
Analyzing Compounds	Mepiquat, Chloride

HPLC Column Used

Obelisc R, 4.6×50 mm, 5 µm, 100A

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