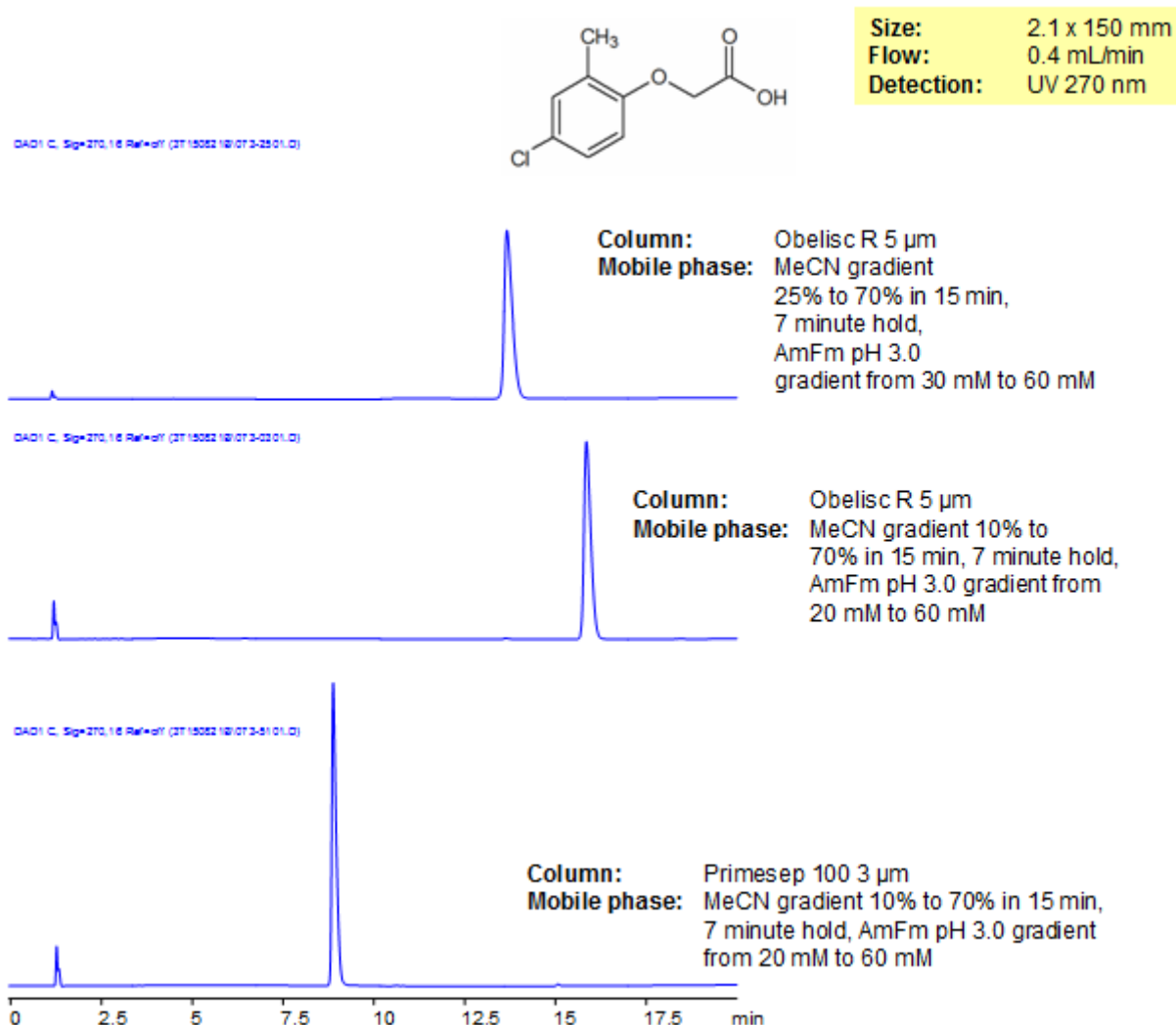


# HPLC Analysis of MCPA on Primesep and Obelisc Mixed-Mode Columns

<https://sielc.com/Application-HPLC-Analysis-of-MCPA-on-Primesep-and-Obelisc-Mixed-Mode-Columns>

## Chromatogram



## Description

MCPA (4-Chloro-2-methylphenoxy)acetic acid) was synthesized to control broad-leaf weeds such as thistle and dock. MCPA forms complexes with metal ions and increase their bioavailability. A single residue method was developed and used by the EURL (European Union Reference Laboratory) for acidic pesticides. MCPA was separated by both Obelisc R and Primesep 100. Primesep 100 is a reverse-phase column with embedded acidic ion-pairing groups while Obelisc R is a mixed-mode column with separates using ionic groups and a long hydrophobic chain. Methods are LC/MS compatible and able to be used with many pesticides.

## Method Parameters

<b>Mobile Phase</b>	Gradient MeCN – 10-70%, 15 min, 7 min hold
<b>Buffer</b>	Gradient AmAc pH 3.0- 20-60 mM, 15 min, 7 min hold
<b>Flow Rate</b>	0.4 ml/min

<b>Detection</b>	UV, 270 nm
<b>Class of Compounds</b>	Synthetic plant hormone, Acid, Hydrophobic, Ionizable
<b>Analyzing Compounds</b>	MCPA

#### HPLC Column Used

**Primesep 100, 2.1×150 mm, 3 µm, 100A**

[Order this column at hplc-shop.de →](http://hplc-shop.de)