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应用纪要

Clopyralid and Triclopyr in River Water – LC-MS

Waters Corporation



This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief highlights the analysis of clopyralid and triclopyr in river water using XTerra MS C_{18} columns.

Introduction

Compounds used in this study includes:

- 1. Clopyralid
- 2. Triclopyr

Clopyralid

Triclopyr

Experimental

HPLC Conditions

Column: XTerra MS C_{18} 2.1 x 100 mm, 3.5 μ m (p/n:

186000404)

Mobile phase A: 10 mM TFA, pH 2.1

Mobile phase B: ACN

Flow rate: 0.2 mL/min

Injection volume: 20 µL

Detection: MS ESI+

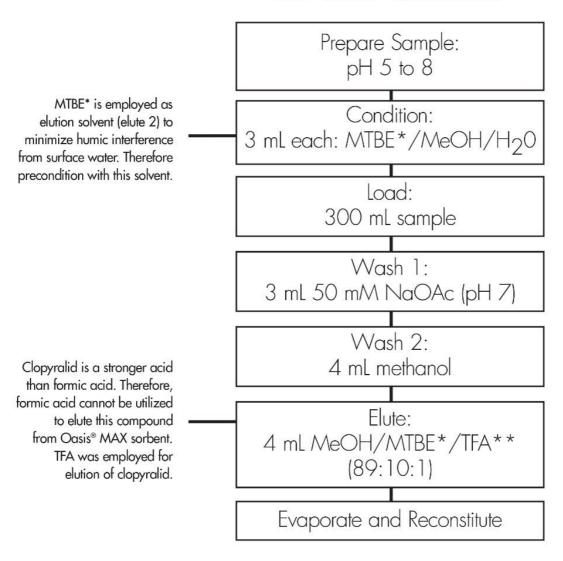
Multiple Selected-Ion Recording (SIR)

Instrument: Alliance 2695, Micromass ZQ

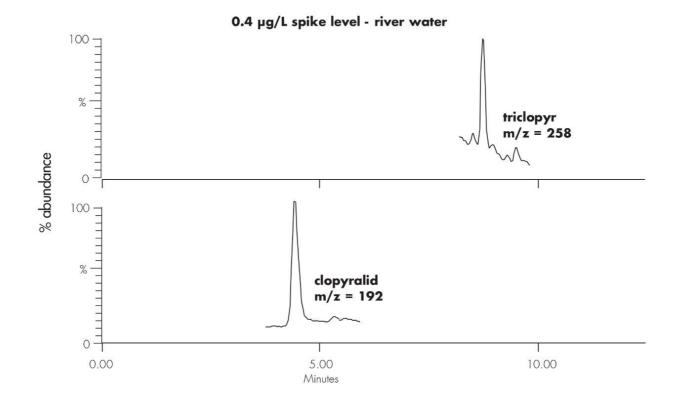
Gradient

Time (min)	Profile	
	%A	%B
0.0	75	25
6.0	10	90

Optimized Oasis® MAX method for clopyralid and triclopyr Conditions for Oasis® MAX Cartridge, 6 cc, 500 mg Part Number 186000865



* methyl t-butyl ether diethyl ether can be used as an alternative to MTBE ** TFA - trifluoroacetic acid



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