Waters™

Note d'application

Acidic Herbicides in Drinking Water Using Xterra Column

Waters Corporation

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

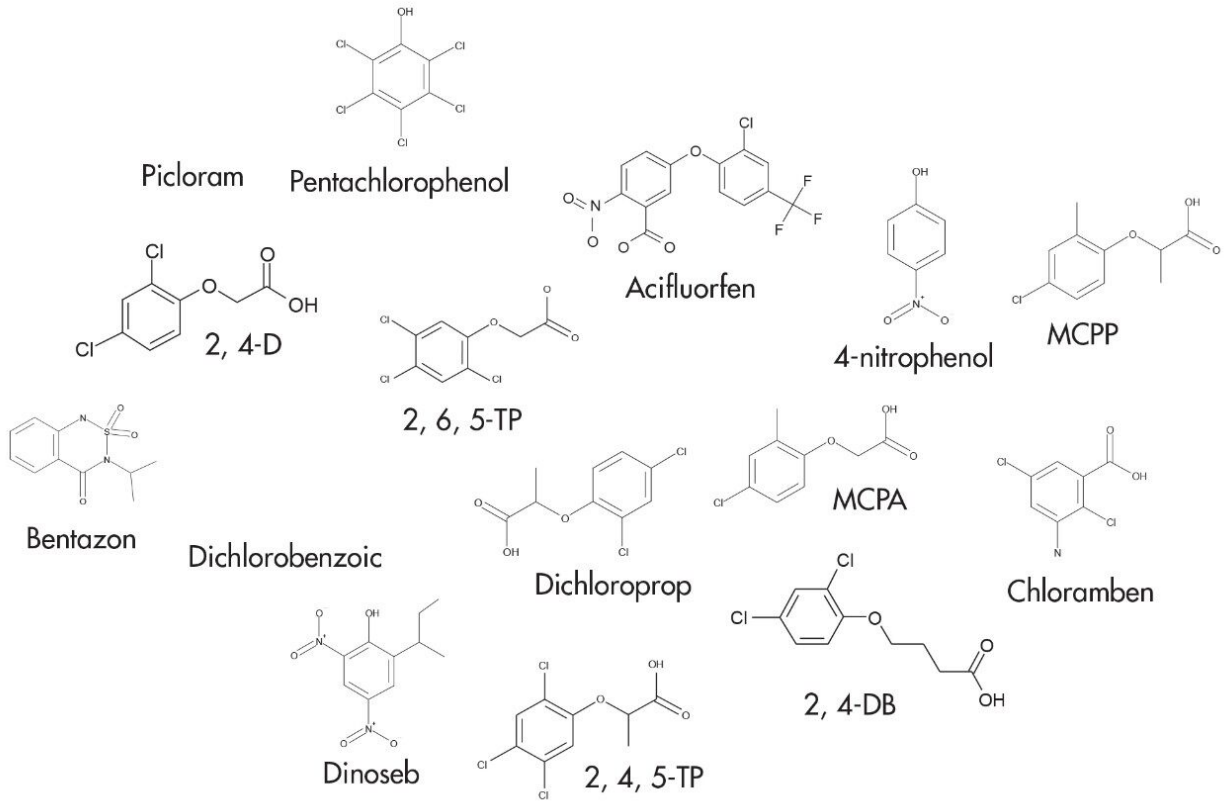
Abstract

This application brief demonstrates analysis of acidic herbicides in drinking water.

Introduction

The compounds used in this study are –

1. Picloram
2. Chloramben
3. 4-nitrophenol (non-linear above 500)
4. Bentazon (non-linear above 300)
5. 2, 4-D
6. MCPA
7. 2, 4, 5-TP
8. Dichloroprop
9. MCPP
10. Dichlorobenzoic
11. Acifluorfen (non-linear above 300)
12. 2, 6, 5 -TP
13. 2, 4-DB
14. Dinoseb (non-linear above 200)
15. Pentachlorophenol



Compounds.

Experimental

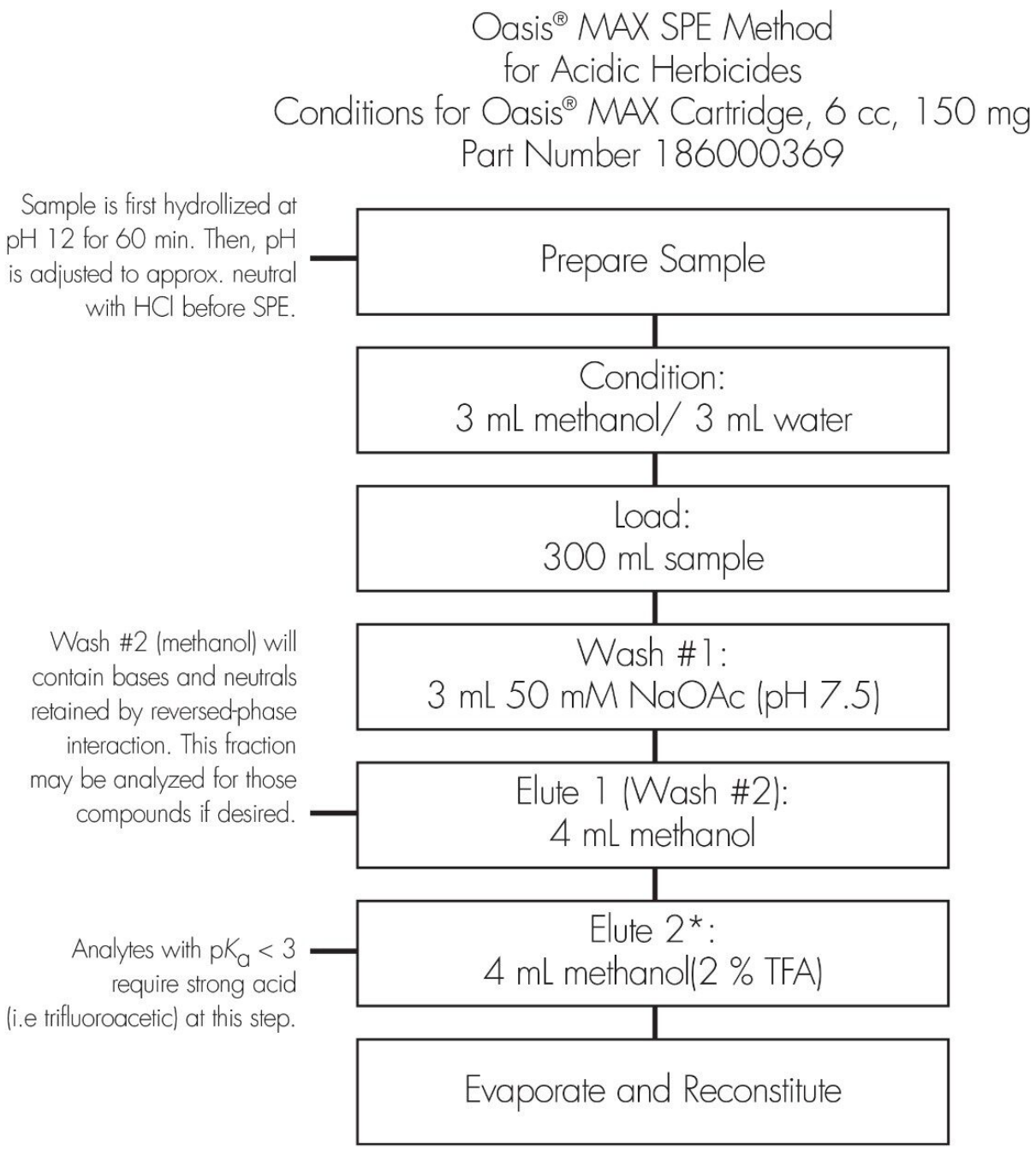
Conditions

Column:	Xterra MS C_{18} 2.1 x 100 mm, 3.5 µm
Part number:	186000404
Mobile phase A:	15 mM NH_4COOH, pH 3.4
Mobile phase B:	ACN

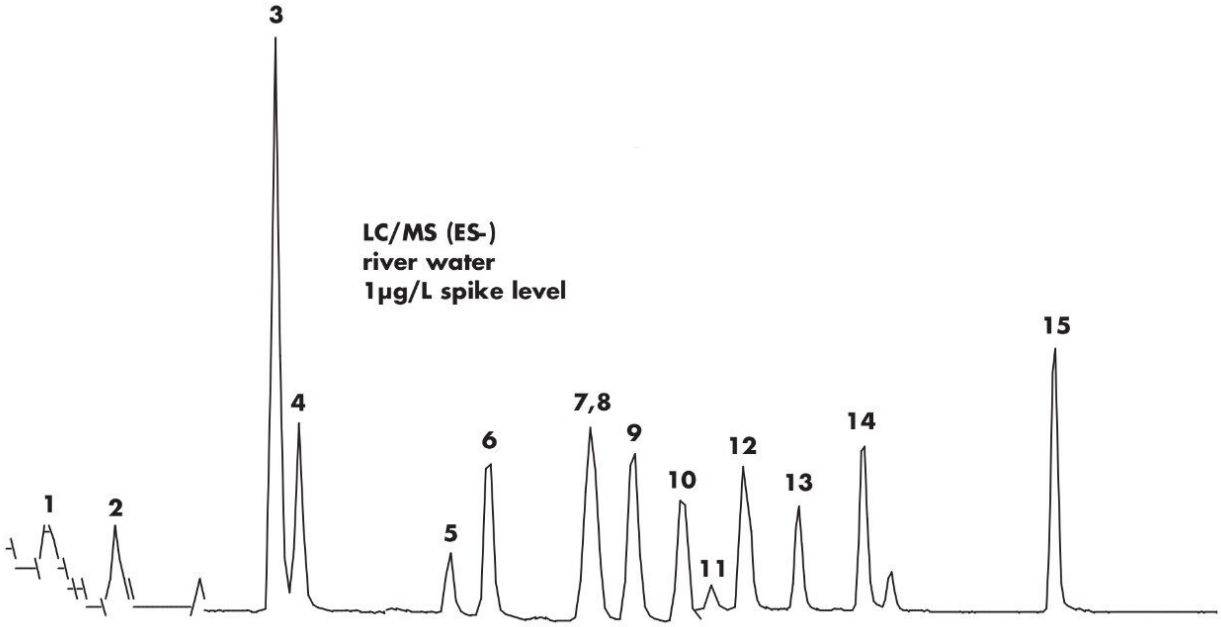
Flow rate:	0.2 mL/min to MS
Injection volume:	20 µL
Detection:	MS ESI-
Instrument:	Alliance 2695, Micromass ZQ

Gradient

Time (min)	Profile	
	%A	%B
0.0	75	25
9.0	40	60
14.0	40	60
30.0	10	90



Results and Discussion



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