Waters™

アプリケーションノート

Methamphetamines

Waters Corporation

For forensic toxicology use only.

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

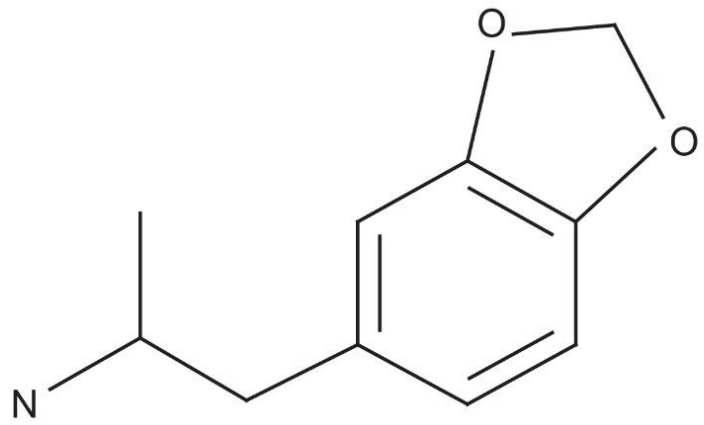
Abstract

This application brief highlights the analysis of methamphetamines using XTerra Columns.

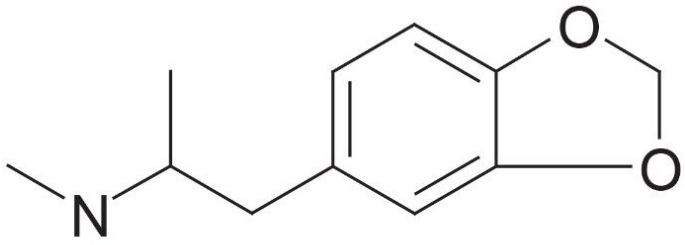
Introduction

The compounds analyzed in this study are:

1. 3,4-methylenedioxyamphetamine (MDA)
2. 3,4-methylenedioxymethamphetamine (MDMA)



3,4-Methylenedioxyamphetamine (MDA)



3,4-Methylenedioxymethamphetamine (MDMA)

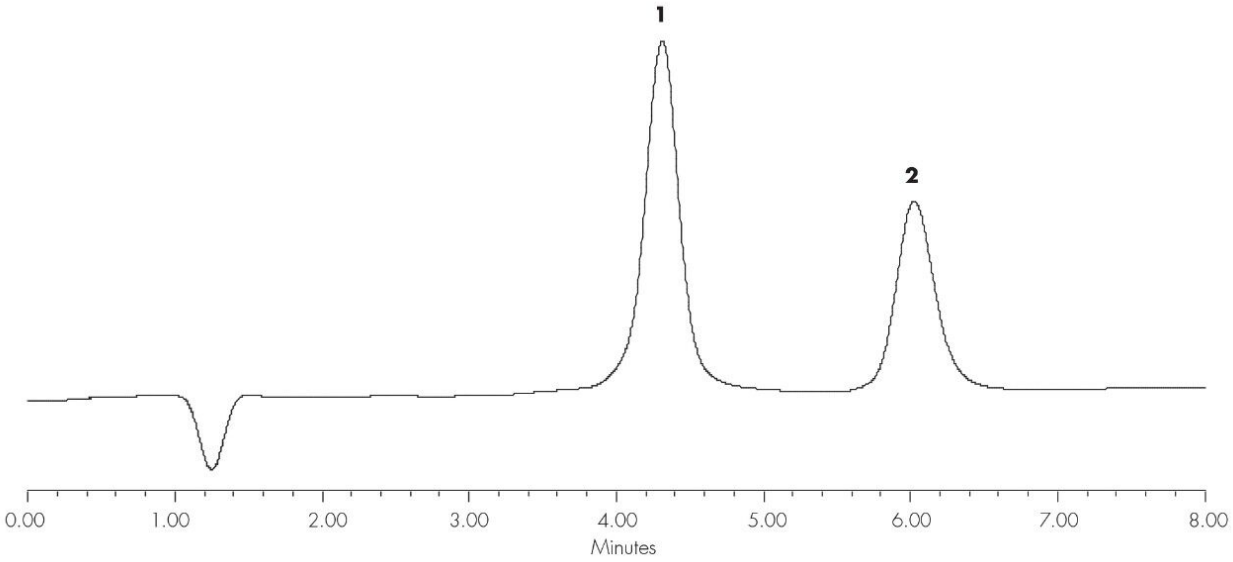
Experimental

Conditions

Column:	XTerra RP_{18} 3.0 x 100 mm, 3.5 µm
Part number:	186000420
Mobile phase A:	5 mM NH_4HCO_3, pH 9.6
Mobile phase B:	ACN
Flow rate:	0.6 mL/min
Isocratic mobile phase composition:	80%A; 20%B
Injection volume:	5 µL
Sample concentration:	40 pg/µL
Temperature:	40 °C
Detection:	Fluorescence 280ex 326em Gain 100 TC = 1s
Instrument:	Alliance 2690, 2475

Compounds	USP Tailing
3,4-methylenedioxyamphetamine (MDA)	0.95
3,4-methylenedioxymethamphetamine (MDMA)	1.10

Results and Discussion



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Alliance HPLC System <https://www.waters.com/534293>

2475 Fluorescence (FLR) Detector <https://www.waters.com/514434>

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