

## Methamphetamines

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Waters Corporation



*For forensic toxicology use only.*

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

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### Abstract

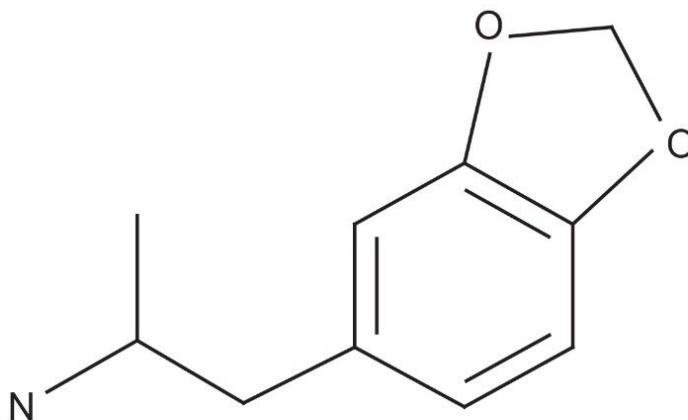
This application brief highlights the analysis of methamphetamines using XTerra Columns.

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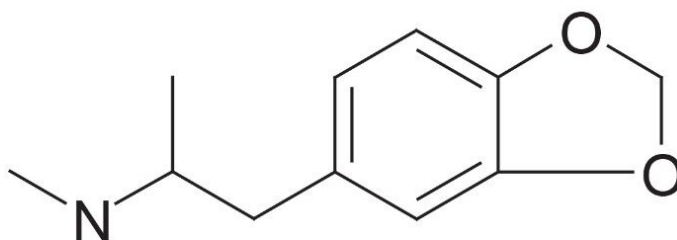
## Introduction

The compounds analyzed in this study are:

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



## 3,4-Methylenedioxyamphetamine (MDA)



## 3,4-Methylenedioxyamphetamine (MDMA)

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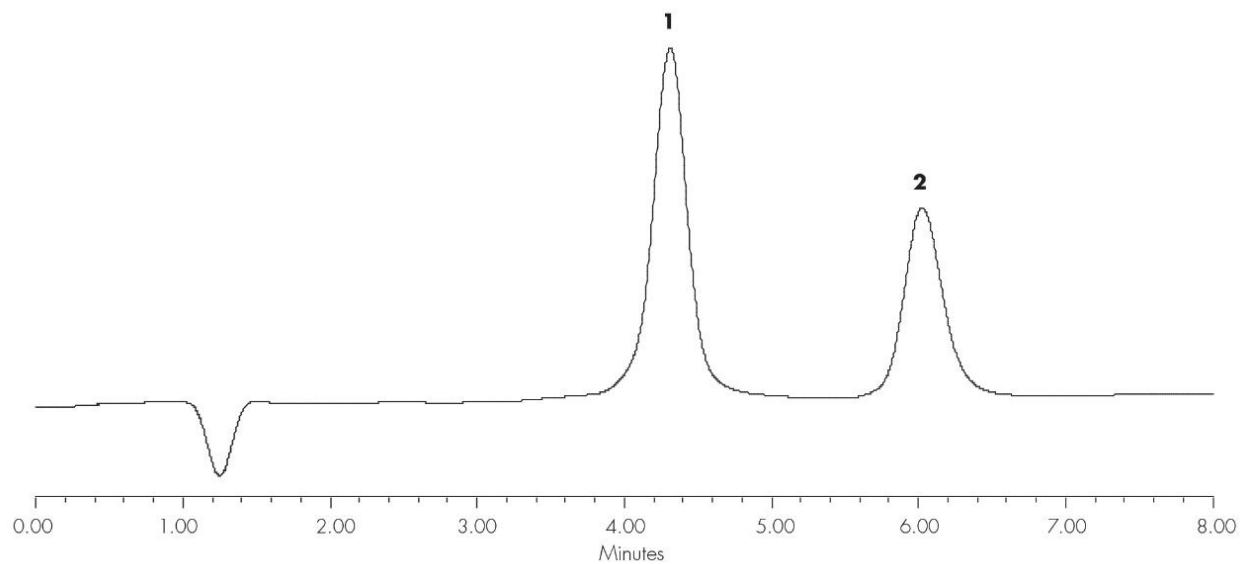
## Experimental

### Conditions

|                                          |                                                |
|------------------------------------------|------------------------------------------------|
| Column:                                  | XTerra RP <sub>18</sub> 3.0 x 100 mm, 3.5 μm   |
| Part number:                             | 186000420                                      |
| Mobile phase A:                          | 5 mM NH <sub>4</sub> HCO <sub>3</sub> , 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<br>Gain 100 TC = 1s   |
| Instrument:                              | Alliance 2690, 2475                            |
| Compounds                                | USP Tailing                                    |
| 3,4-methylenedioxyamphetamine (MDA)      | 0.95                                           |
| 3,4-methylenedioxymethamphetamine (MDMA) | 1.10                                           |

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## Results and Discussion



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## Featured Products

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

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

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