

## Drugs of Abuse - LC/UV

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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

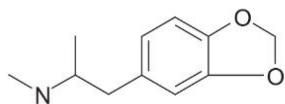
This application brief demonstrates analysis of drugs of abuse - LC/UV.

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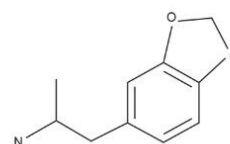
## Introduction

The compounds used in this study are –

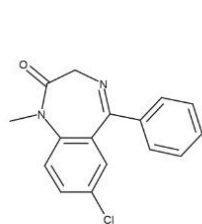
Compounds	USP Tailing
3,4-Methylenedioxyamphetamine (MDA)	1.08
3,4-Methylenedioxymethamphetamine (MDMA)	1.32
Alprazolam	1.18
Flunitrazepam	1.15
Desmethyldiazepam	1.14
Diazepam	1.13



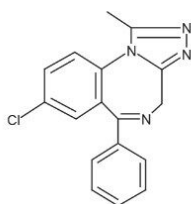
3,4-Methylenedioxymethamphetamine (MDMA)



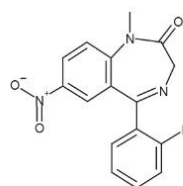
3,4-Methylenedioxyamphetamine (MDA)



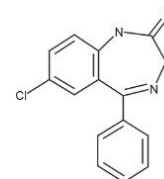
Diazepam



Alprazolam



Flunitrazepam



Desmethyldiazepam

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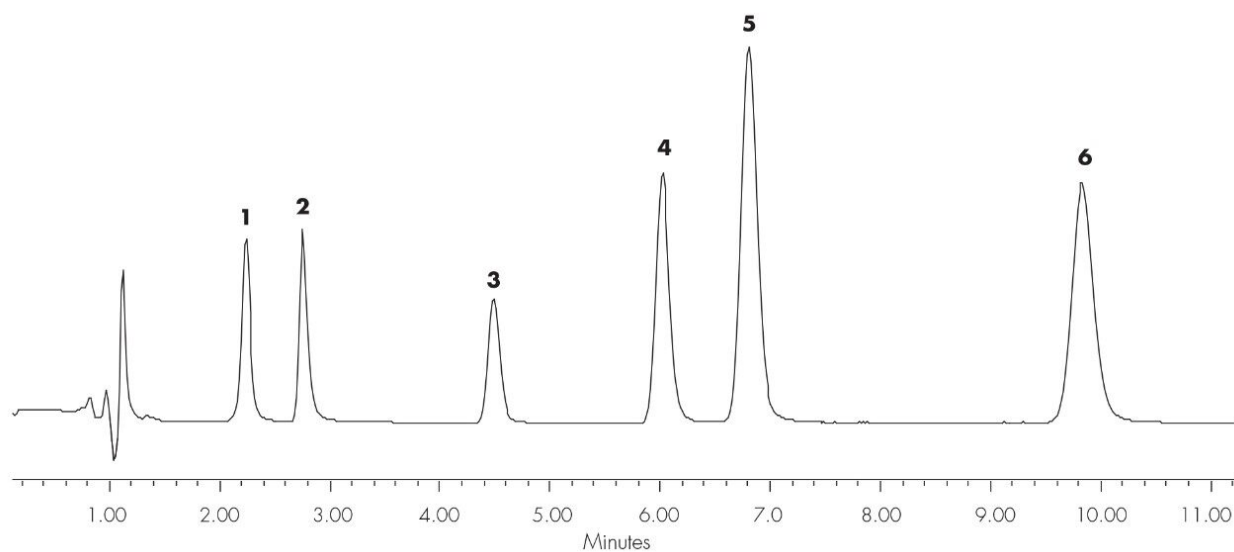
## Experimental

### 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:	70% A; 30% B
Injection volume:	10 µL
Sample concentration:	10 ng/µL
Temperature:	40 °C
Detection:	UV @ 210 nm
Instrument:	Alliance 2690, 2996 PDA

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## Results and Discussion



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

WA20738.046, June 2002