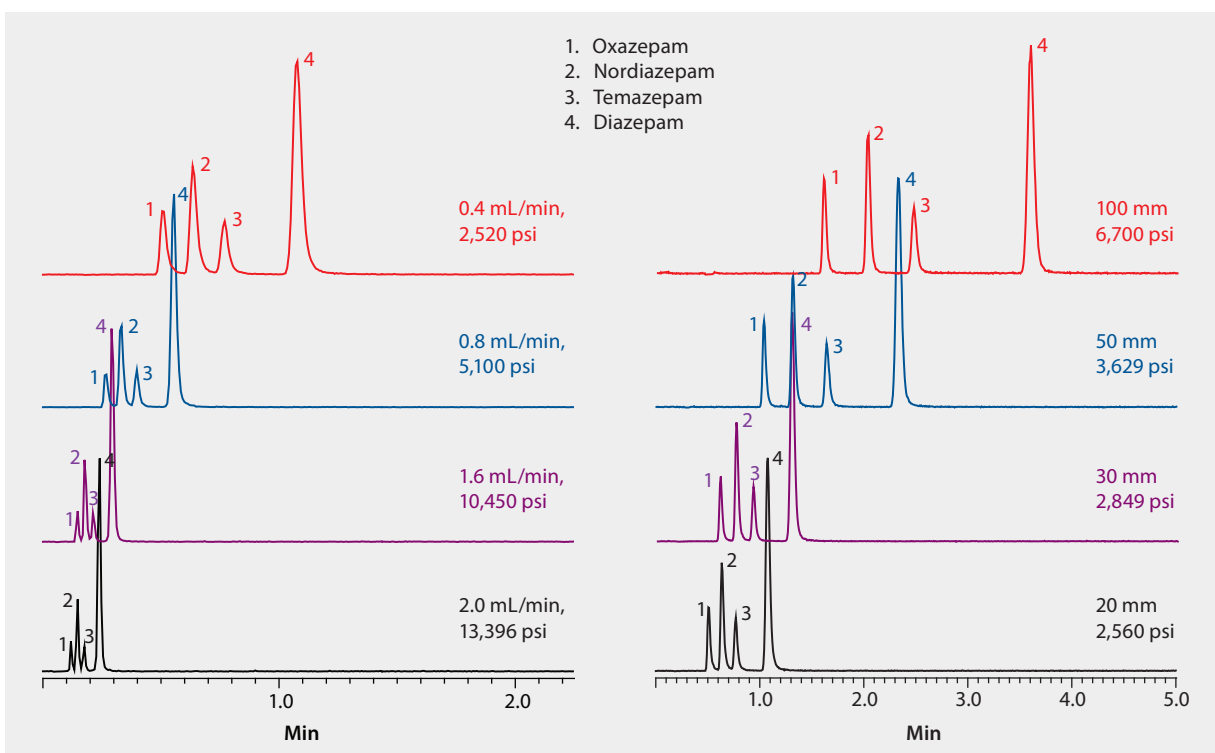


## UHPLC/MS Analysis of Diazepam and Metabolites on Titan™ C18, Comparison of Flow Rate and Column Length

These two sets of chromatograms show separations on 100, 50, 30, and 20 mm x 2.1 mm I.D. columns and at different flow rates and demonstrate the utility of the 1.9 µm Titan particles. Fluka CHROMASOLV solvents provided clean, robust operation. Cerilliant CRMs provided reliable quantification.

market focus ..... Clinical; Forensics and Toxicology  
 column ..... Titan C18, 2 cm x 2.1 mm I.D., 1.9 µm particles (577120-U)  
 mobile phase ..... [A] 0.1% formic acid; [B] acetonitrile; (60:40, A:B)  
 flow rate ..... various  
 temp. .... 35 °C  
 detector ..... TIC MRM (UV also runs in series)  
 injection ..... 1 µL  
 sample ..... 100 ng/mL in mobile phase  
 Application No. .... G006278



### Related Products

- analytical column**  
 Titan™ C18 UHPLC Column, 1.9 micron (Supelco 577120-U)
- mobile phase component**  
 Acetonitrile (Fluka 14261)  
 Formic acid (Fluka 14265)  
 Water (Fluka 14263)
- standard**  
 Diazepam solution (Cerilliant D-907)  
 Nordiazepam solution (Cerilliant N-905)  
 Oxazepam solution (Cerilliant O-902)  
 Temazepam solution (Cerilliant T-907)