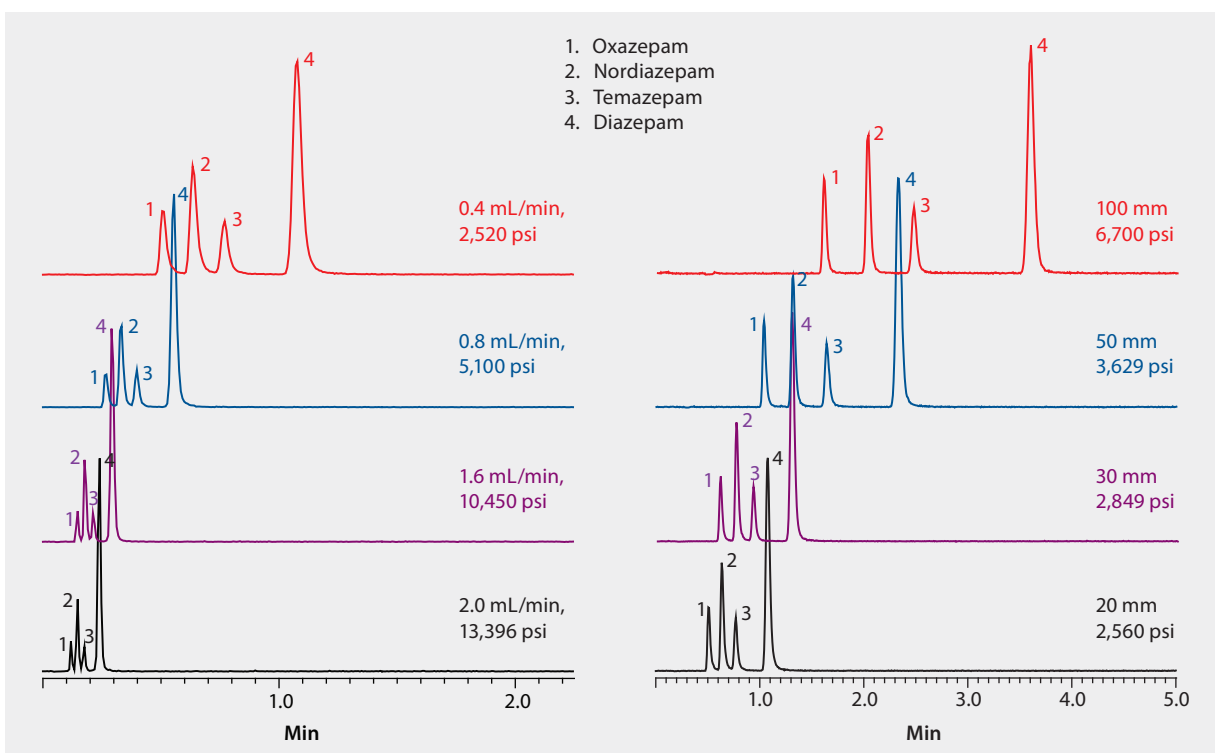


UHPLC/MS Analysis of Diazepam and Metabolites on Titan™ C18, Comparison of Flow Rate and Column Length

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)