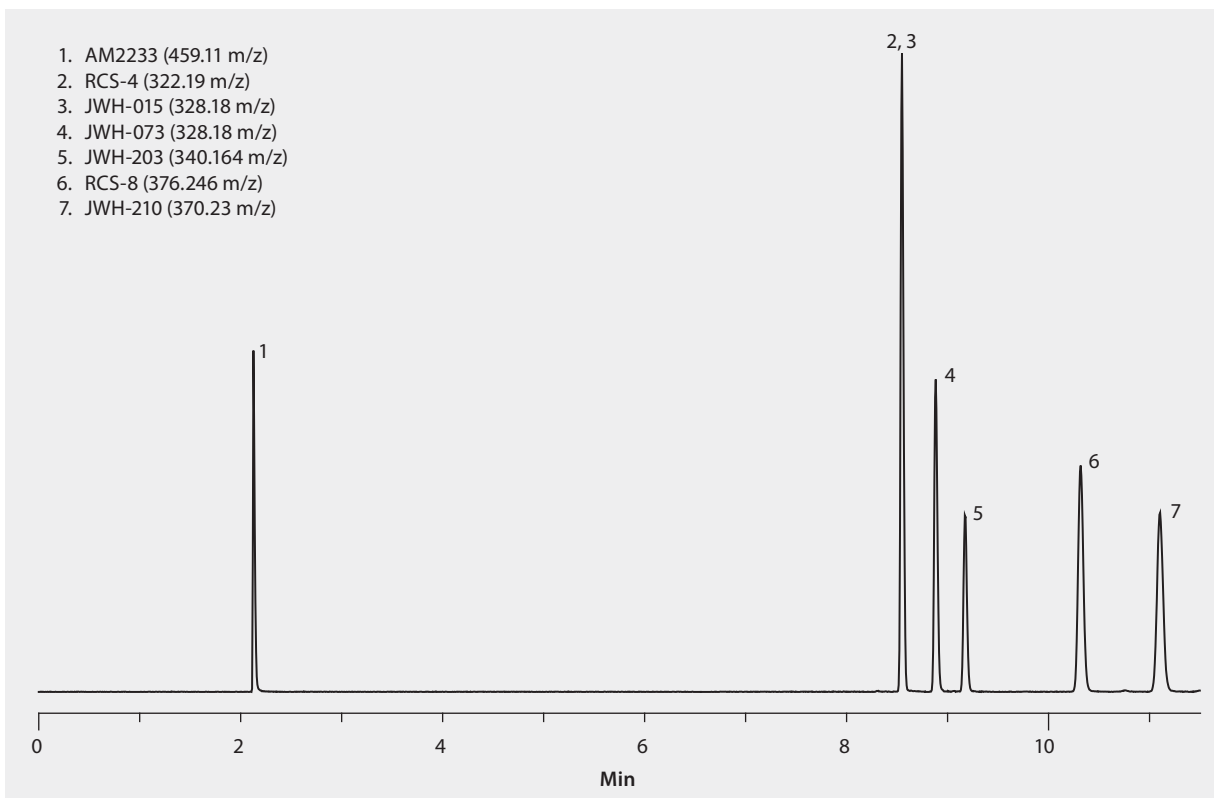


## UHPLC/MS Analysis of Spice Cannabinoids on Titan™ C18

Synthetic cannabinoids (e.g. "Spice") are a type of designer drug that provides a cannabis-type high. New synthetic cannabinoids are continually being introduced as suppliers tweak the molecular structures. The ability to rapidly and reliably identify the continually changing population of these compounds is a significant analytical challenge facing forensic chemists. The rapid, efficient UHPLC separation a set of these compounds on a Titan C18 column is shown here. Fluka LC-MS Ultra CHROMASOLV solvents were used to supply low background interference and low particulate contaminants for robust, trouble-free operation. Cerilliant CRMs provided reliable identification and quantification.

market focus ..... Forensics and Toxicology  
 column ..... TITAN C18, 100 mm x 2.1 mm x 1.9 µm particles (577124-U)  
 mobile phase ..... [A] 0.1% formic acid in 95:5, water:acetonitrile; [B] 0.1% formic acid in 5:95, water:acetonitrile;  
 gradient ..... 25% B held for 1 min; to 45% B in 0.5 min; 45% B held for 4.5 min; to 80% B in 0.5 min; 80% B held for 4 min  
 flow rate ..... 0.5 mL/min  
 pressure ..... 8756 psi (604 bar)  
 column temp. .... 35 °C  
 detector ..... MS-ESI+,100 - 1000 m/z scan, XIC  
 injection ..... 2 µL  
 sample ..... 100 ng/mL in 60:40, water:methanol  
 Application No. .... G006308



### Related Products

#### analytical column

Titan™ C18 UHPLC Column, 1.9 micron ([Supelco 577124-U](#))

#### mobile phase component

Acetonitrile ([Fluka 14261](#))

Formic acid ([Fluka 14265](#))

Water ([Fluka 14263](#))

#### standard

JWH-073 solution ([Cerilliant S-027](#))

Spice Cannabinoid Mix 3 solution ([Cerilliant S-047](#))