Forensics: Date rape drug in cola

No sample preparation
Low detection limits
Fast, accurate mass

• The minimum level of the date rape drug, Gamma-Hydroxy Butyric Acid, which affects humans is 1 mg/mL
• A cola sample was spiked with the drug at 0.1 mg/mL, 10-fold less than the minimum detection limit
• With no sample preparation, DSA-TOF analysis of the cola sample detected the drug with high mass accuracy
• The analysis was performed in 15 seconds with no sample preparation and external calibration