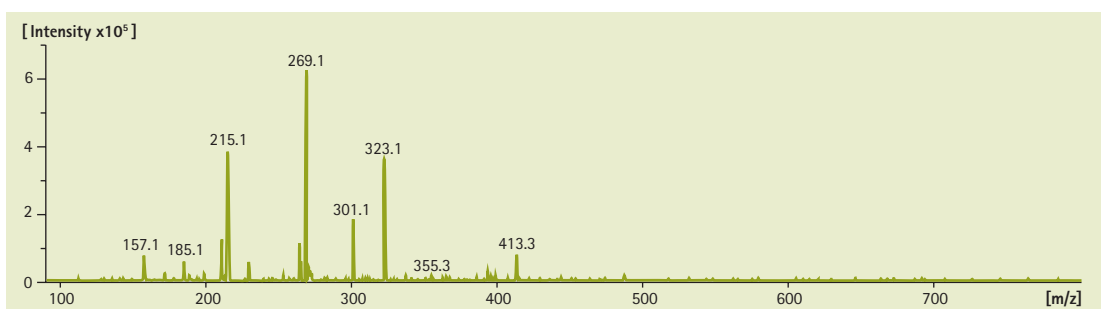


TLC and HPTLC MS-grade plates for mass spectrometry

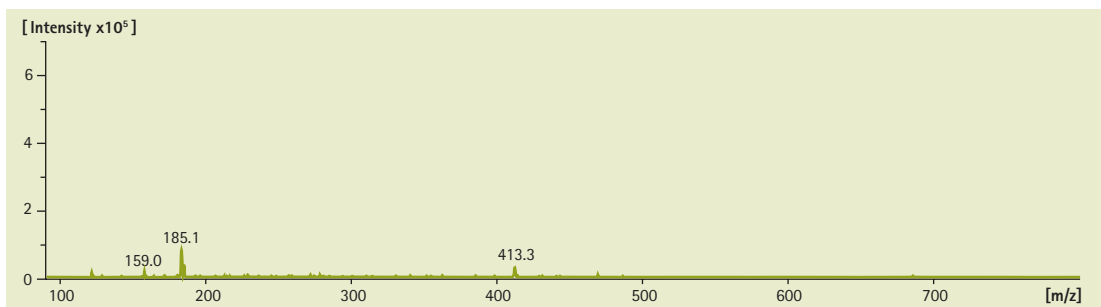
Comparison of HPTLC MS-grade glass plates with Merck Millipore standard HPTLC glass plates under same chromatographic conditions

The following experimental results demonstrate the enhanced sensitivity of TLC-MS-grade plates:

MS background signal measurement using a standard HPTLC silica gel 60 F₂₅₄ glass plate [Ord. No. 1.05642.0001] with mobile phase acetonitrile/water (95/5).

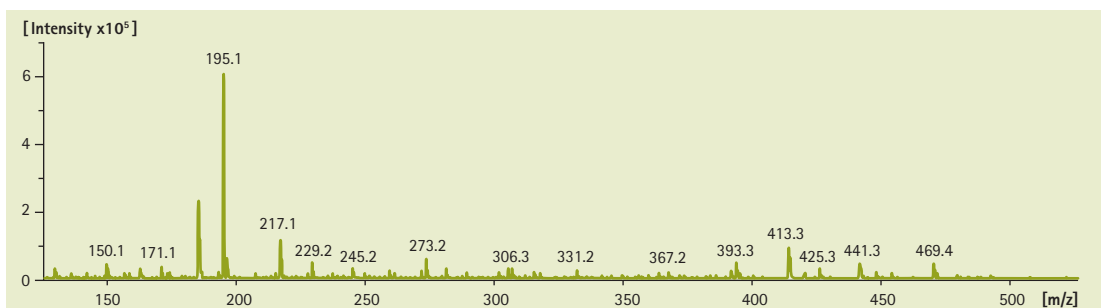


MS background signal measurement using an **MS-grade** HPTLC silica gel 60 F₂₅₄ glass plate [Ord. No. 1.00934.0001] with mobile phase acetonitrile/water (95/5).



This clearly demonstrates that MS-grade plates have very low background signal compared to standard HPTLC plates.

Trace measurement of caffeine [sample: 20 ng caffeine (MH⁺) 195.1] on a HPTLC silica gel 60 F₂₅₄ **MS-grade** glass plate [Ord. No. 1.00934.0001] with mobile phase acetonitrile/water (95/5) + 0.1 % formic acid



ESI-MS mass spectrum of caffeine, measured from a 20 nanogram TLC spot