

Centella erecta

Brown powder in poly bag

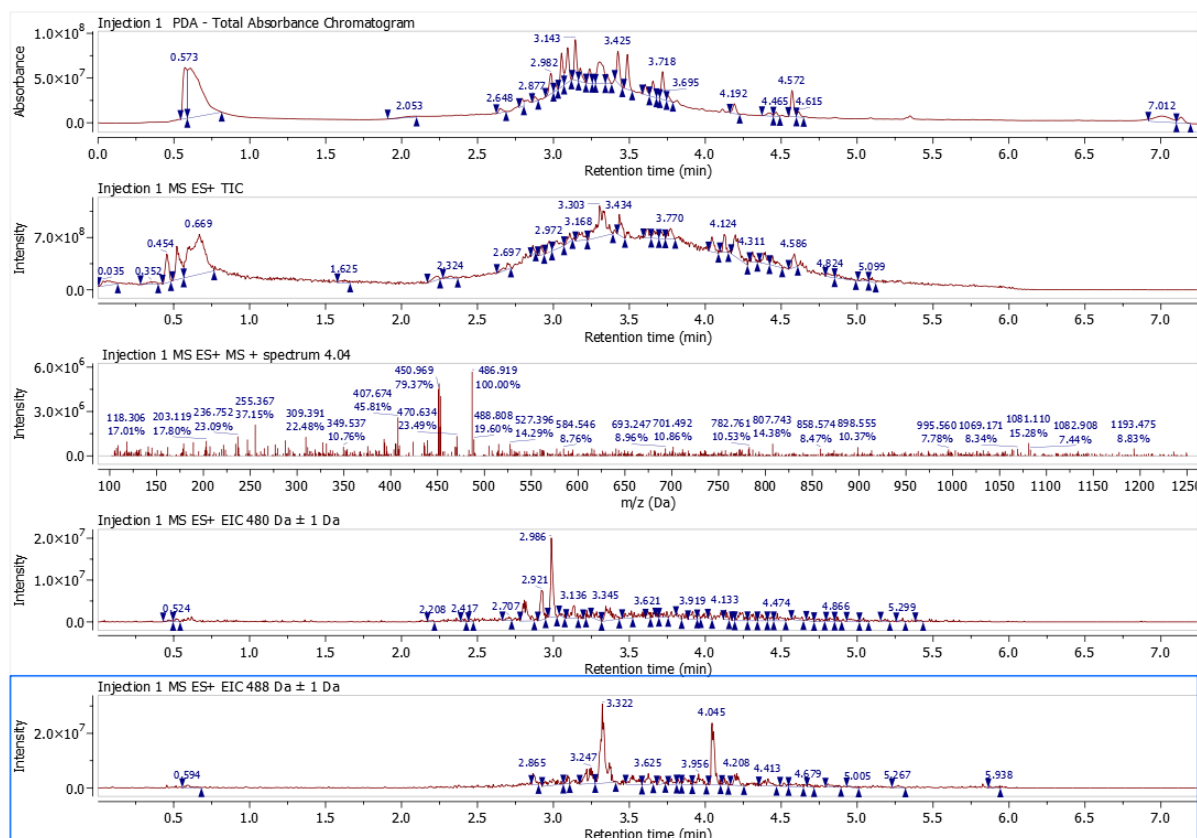
Expected MW: 975.1 Madecassoside, 959.1 Asiaticoside, 975.1 Asiaticoside A

Found: 488.81 (M+2H⁺) for Madecassoside and Asiaticoside A, and 480.78 for Asiaticoside

¹H NMR: spectrum matches several dominant and overlapping Asiaticoside derivatives (glycosylated terpenes)

All three target compounds are very similar to each other – difference is only one hydroxyl group. Since heteroatom-bound hydrogens are not reliably detectable by NMR, it is not possible to distinguish between the three.

qNMR: Dry sample contains 28.7% Asiaticoside derivatives by weight



^1H NMR, $\text{d}_6\text{-DMSO}$:

