

# Milk Thistle

Brown powder in poly bag

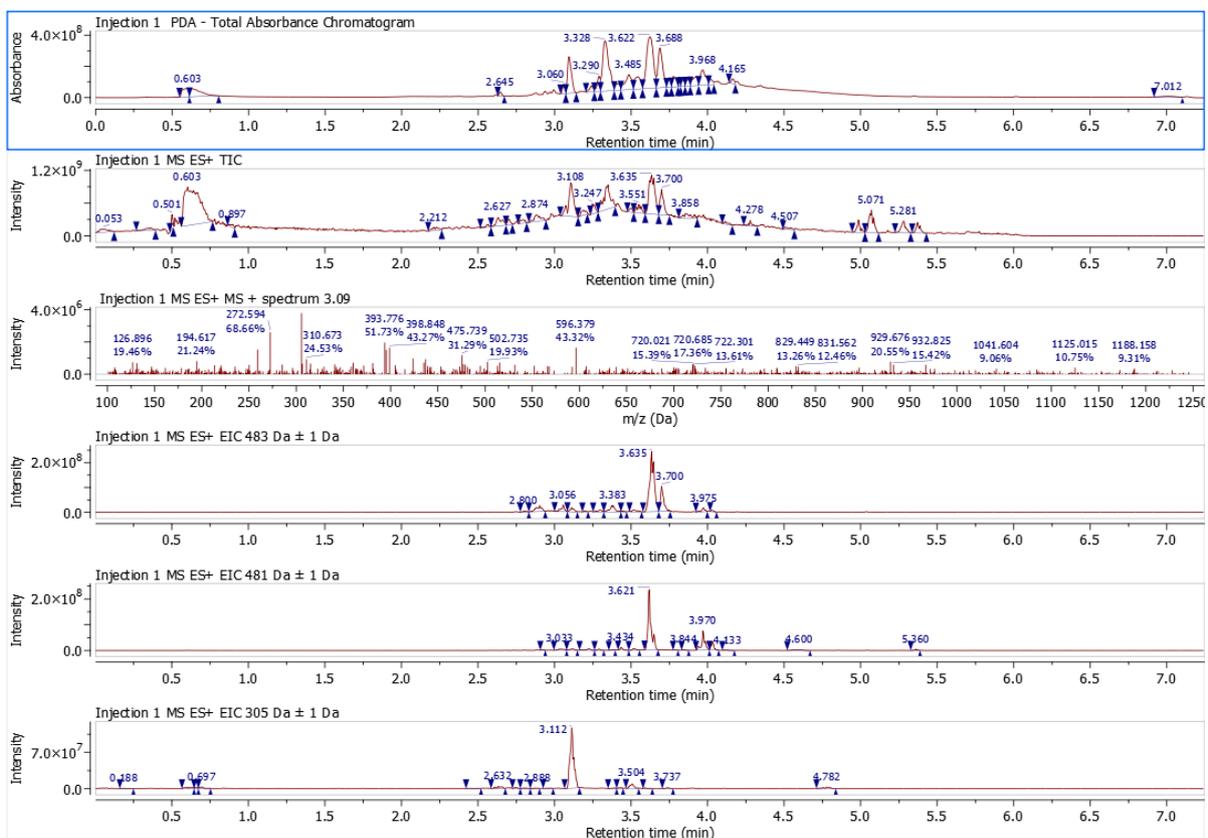
Expected MW: 482.4 Silibinin, 482.4 Silychristin, 304.3 Taxifolin

Found: 305.67 (MH+) for Taxifolin, and 483.68 (MH+) for Silibinin and Silychristin

<sup>1</sup>H NMR: spectrum matches several three dominant constituents Silibinin and Silychristin with visible difference in central ring size and Taxifolin which raises the signal of flavonoid core

qNMR: Dry sample contains 37.4% total flavonolignans.

Quantitation of individual components was possible, but is not very accurate – out of the total flavonolignans roughly 60% is Silibinin, 20% is Silychristin and 20% is free Taxifolin.



<sup>1</sup>H NMR, d<sub>6</sub>-DMSO:

