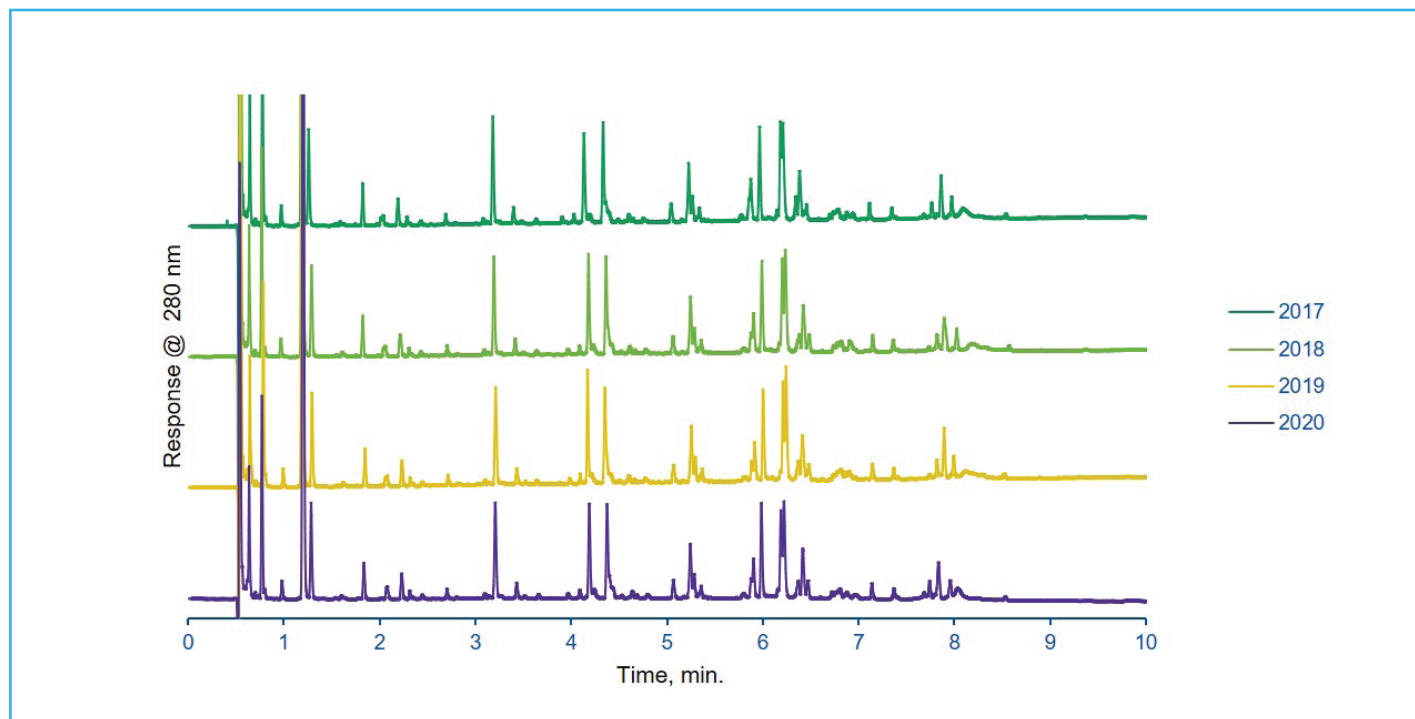




Rapid Peptide Mapping of an Adalimumab (Humira®) Digest

Application Note 221-PE



TEST CONDITIONS:

Column: HALO 160 Å ES-C18, 2.7 μm, 2.1 x 150 mm

Part Number: 92122-702

Mobile Phase: A: Water/0.1% DFA and B: ACN/ 0.1% DFA

Flow Rate: 600 μL/min

Pressure: 330 bar (4795 psi)

Temperature: 60 °C

Detection: 280 nm

Injection Volume: 3.0 μL

Sample Solvent: 90/10 mobile phase A/B

Response Time: 0.025 sec

Flow Cell: 1.0 μL

LC System: Shimadzu Nexera

The outstanding reproducibility and high throughput power of the HALO 160 Å ES-C18 column is demonstrated here with the separation of an adalimumab (immunosuppressive drug) tryptic digest achieved under 10 minutes (total analysis time of 15 min). The nearly identical gradient profiles highlight the reliability and reproducibility of four different column lots, over a four-year period (2017-2020).

