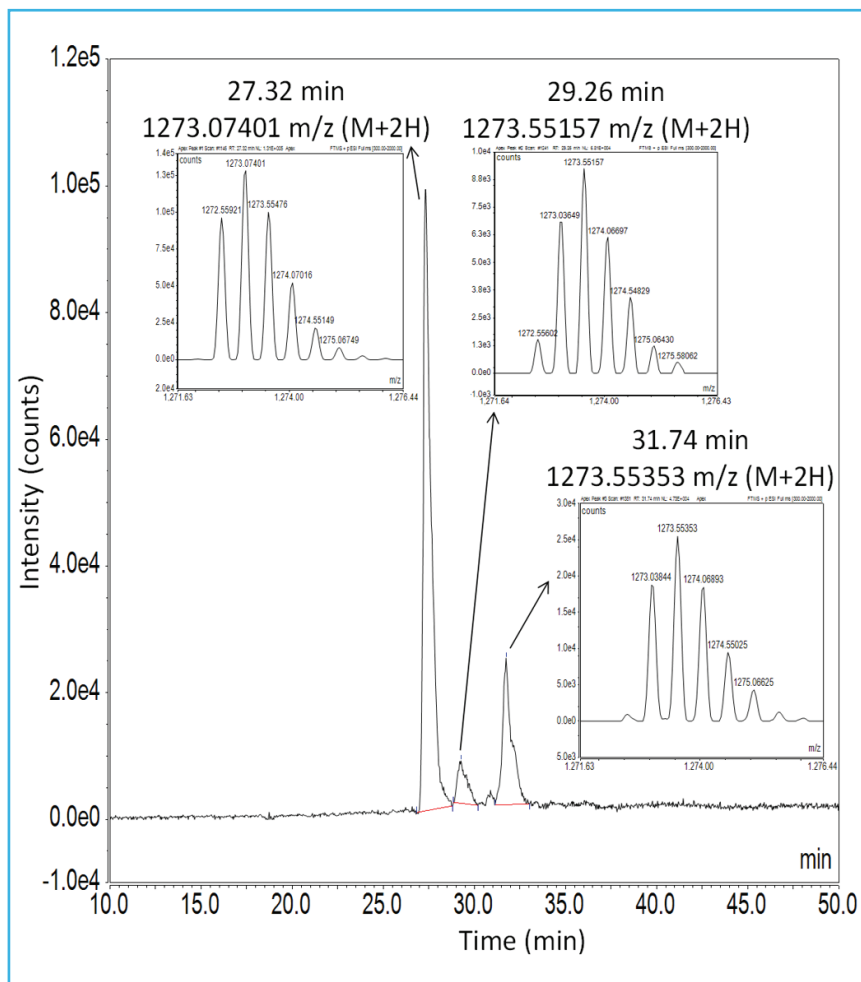




Capillary scale HILIC Separation of Deamidation Products of Trastuzumab

263-PE



PEAK IDENTITIES

Peptide fragments of
GFYPSDIAVEWESNGQPENNYK

1. m/z= 1273.07401
2. m/z= 1273.55157
3. m/z= 1273.55353

The capillary HALO® Penta-HILIC column facilitated coupling of microflow LC conditions of 12 μ L/min and a higher organic HILIC gradient separation. The column's high resolution capabilities resolved similar charged species required for examining peptide deamidation and isomerization products of Asn, Asp, and isoAsp forms of a peptide fragment of a trastuzumab tryptic digest.

TEST CONDITIONS:

Column: HALO 90 Å Penta-HILIC, 2.7 μ m 0.5 x 150mm

Part Number: 98215-705

Mobile Phase A: 50 mM ammonium formate in water

Mobile Phase B: Acetonitrile/0.1% Formic acid

Gradient:	Time	%B
	0.0	80
	4.0	80
	64.0	48

Flow Rate: 12 μ L/min

Pressure: 123 bar

Temperature: 60 °C

Detection: ESI+

Injection Volume: 1 μ L

Sample Solvent: 50 mM Tris-HCl /1.5M Guanidine-HCl,
0.5% formic acid

LC System: Thermo Ultimate 3000

MS System: Thermo Orbitrap Velos

MS CONDITIONS:

Spray Voltage (kV): 3.8

Capillary temperature: 300 °C

Sheath gas: 40

Aux gas: 10

RF lens: 50

