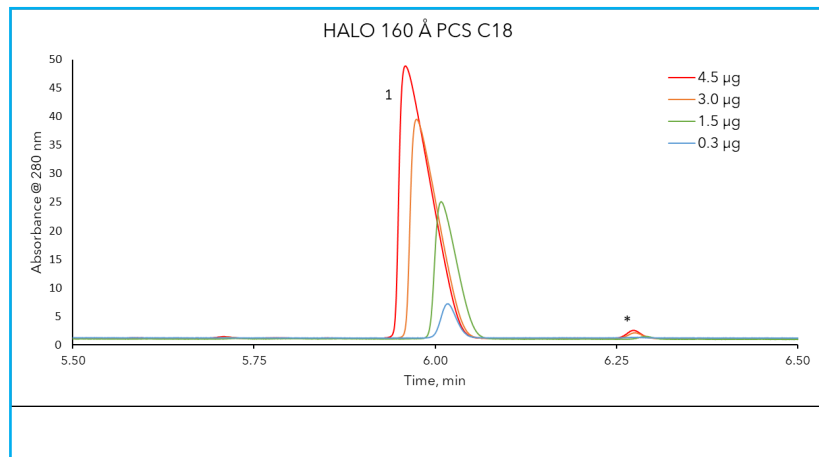




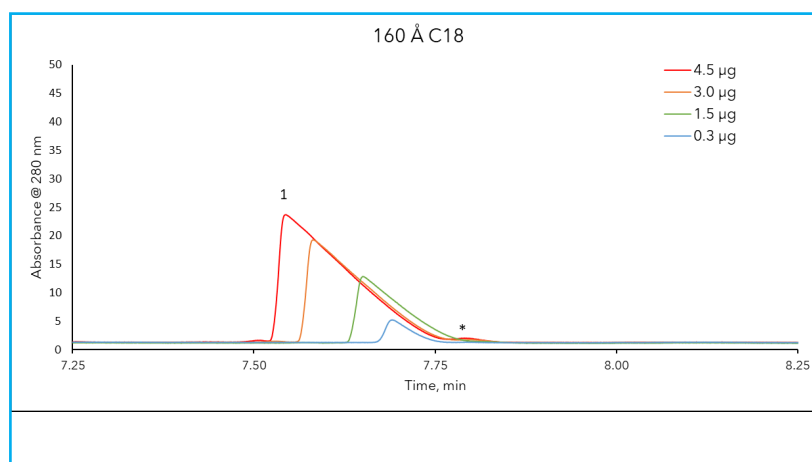
### HALO 160 Å PCS C18 Loading Studies

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#### PEAK IDENTITIES

1. S5Y Sequence: Ac-RGWGLYLGK-NH2 (1102 Da)
- \* Impurity



#### TEST CONDITIONS:

Column: HALO 160 Å PCS C18 , 2.7 µm, 4.6 x 100 mm

Part Number: 92814-617

Mobile Phase A: Water/ 0.1% Formic Acid

Mobile Phase B: Acetonitrile/ 0.1% Formic Acid

Gradient:	Time	%B
	0.0	0
	10.0	35

Flow Rate: 1.5 mL/min

Pressure: 309 bar

Temperature: 30 °C

Injection Volume: 1, 5, 10, 15 µL (0.3 µg/µL)

Wavelength: PDA, 280 nm

Flow Cell: 1 µL

Data Rate: 100 Hz

Response Time: 0.025 sec.

LC System: Shimadzu Nexera X2

A HALO 160 Å PCS C18 column outperforms a traditional C18 column under formic acid conditions due to its positive charge surface, allowing for improved peak shape and resolution for peptides. PCS C18 also allows for a higher sample load on column for basic analytes and could potentially help pull apart closely retained impurities as seen above.

