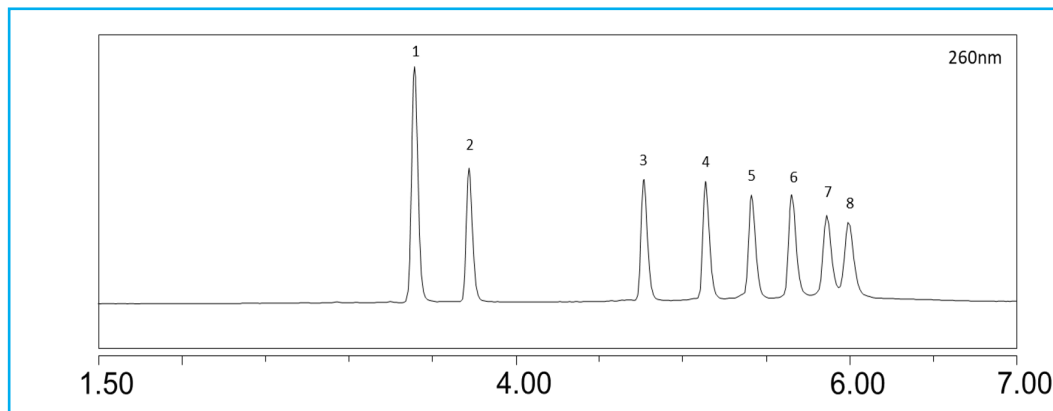




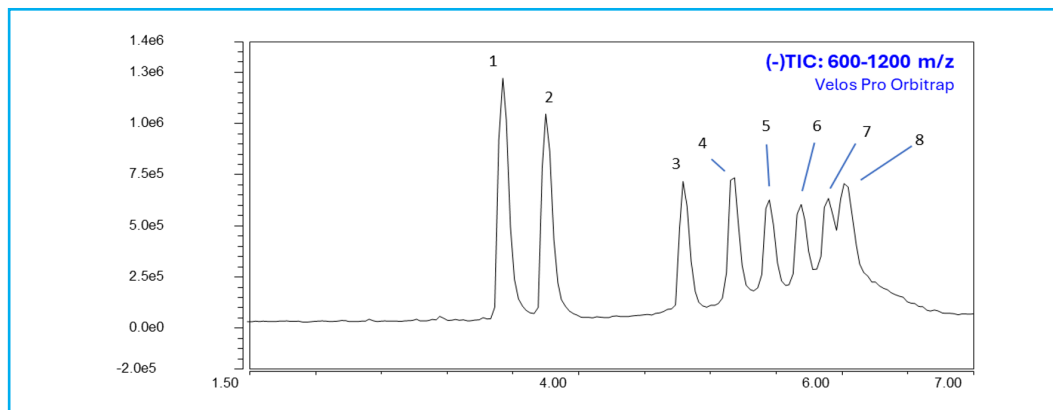
Separation of Oligonucleotide Ladder via LC/MS

371



PEAK IDENTITIES

1. 10 mer
2. 15 mer
3. 20 mer
4. 25 mer
5. 30 mer
6. 40 mer
7. 50 mer
8. 60 mer



TEST CONDITIONS:

Column: : HALO 120 Å OLIGO C18, 2.7 μm, 2.1 x 50 mm
 Part Number: P2A62-402
 Mobile Phase A: 5mM TEA/50mM HFIP, pH 8.4
 Mobile Phase B: Methanol
 Gradient:

Time	%B
0.0	5
7.0	18

Flow Rate: 0.4 mL/min
 Back Pressure: 106 bar
 Temperature: 50 °C
 Injection: 1.0 μL, 10μg on Column
 Sample Solvent: 10mM Tris HCl/1mM EDTA pH=8.0
 Wavelength: PDA, 260 nm
 Flow Cell: 1 μL
 Data Rate: 100 Hz
 Response Time: 0.025 sec.
 LC System: Shimadzu Nexera X2
 MS System: Thermo Velos Pro Orbitrap

MS CONDITIONS:

Detection: (-) HESI
 Spray Voltage: 2.5 kV
 Sheath gas: 35
 Aux gas: 10
 Capillary temp: 350 °C
 Source Heater temp: 300°C
 S lens: 60
 microscan: 1
 max ion time: 200

Using the HALO® OLIGO C18 column, a ladder of oligomers ranging from 10-60 mer in length are separated under LCMS conditions. When running oligonucleotides under MS conditions, the typical triethylammonium acetate buffer must be substituted for a triethylamine/hexafluoroisopropanol buffer. This buffer additive maintains good retention of the sample on the OLIGO column while remaining a safe choice for the mass spectrometry system.

