

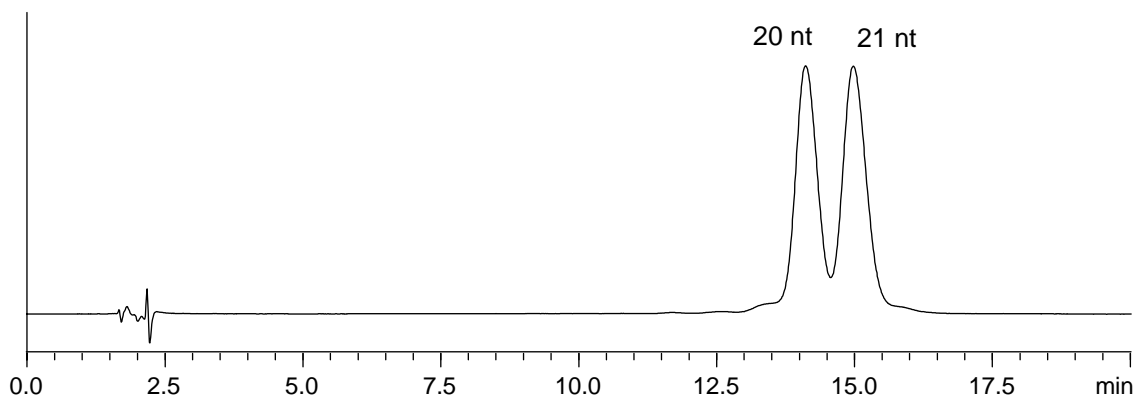
オリゴヌクレオチド (siRNA) の LC/MS 分析  
LC/MS analysis of oligonucleotides (siRNA)

F120227A

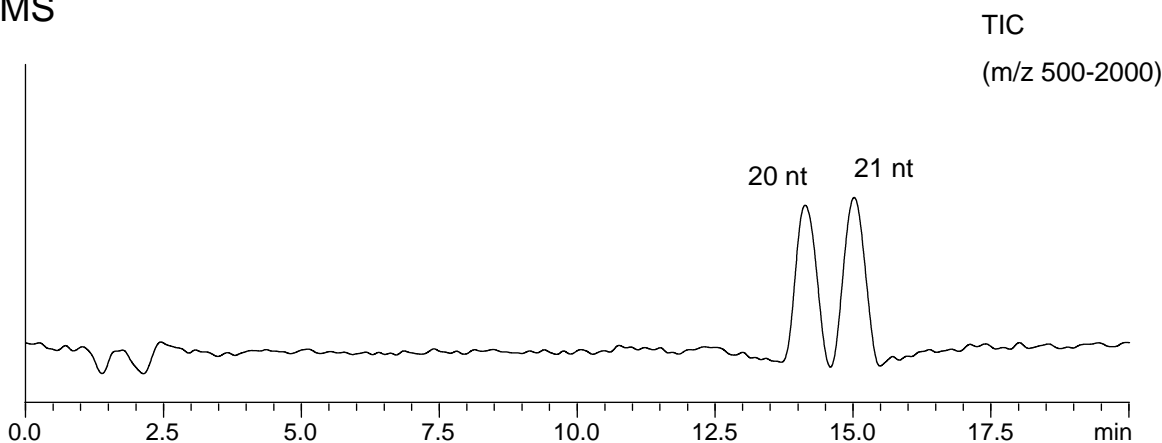
5'-GU ACG CGG AAU ACU UCG AdTdT-3' (20 nt)

5'- CGU ACG CGG AAU ACU UCG AdTdT-3' (21 nt)

A) UV



B) MS



Courtesy of M.Yamada, SHIMADZU CORPORATION

|            |   |
|------------|---|
| Column     | : YMC-Triart C18 (3 $\mu$ m, 12 nm)<br>150 X 2.0 mmI.D.   |
| Eluent     | : A) 5 mM di-n-butylamine-acetic acid (pH 7.5)<br>B) 5 mM di-n-butylamine-acetic acid (pH 7.5)/acetonitrile (50/50)<br>55-65%B (0-20 min) |
| Flow rate  | : 0.2 mL/min  |
| Detection  | : A) UV at 260 nm<br>B) ESI-negative mode   |
| Instrument | : LC) Shimadzu Prominence<br>MS) Shimadzu LCMS-IT-TOF   |

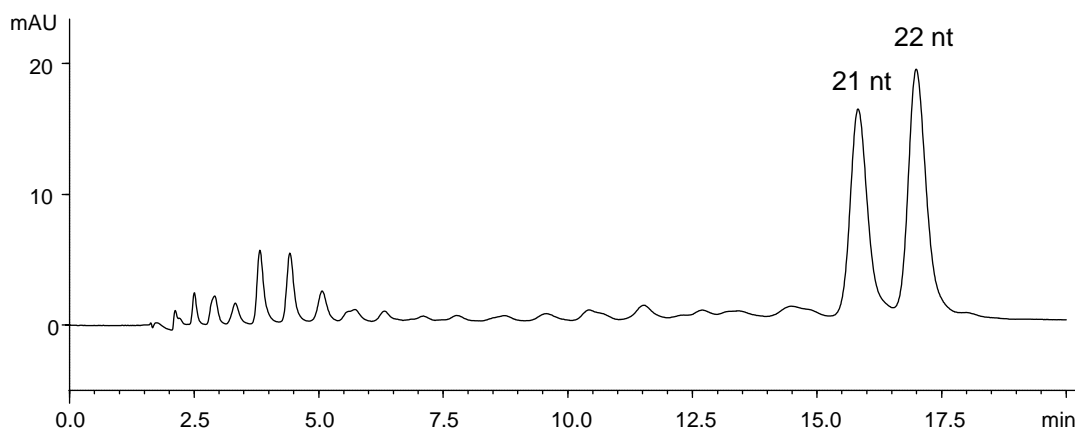
オリゴヌクレオチド(miRNA)の LC/MS 分析  
LC/MS analysis of oligonucleotides (miRNA)

F120202A

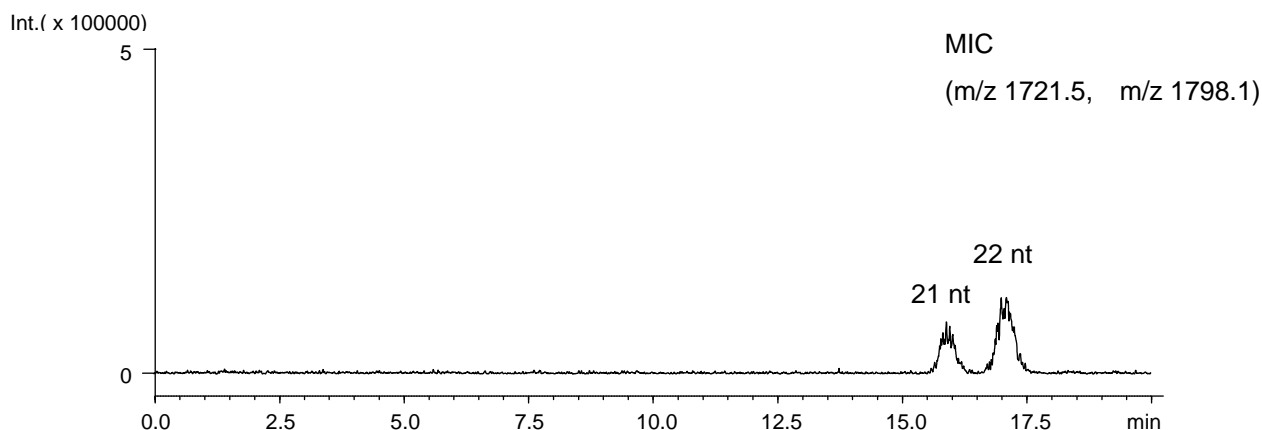
5'-pUGG AGU GUG ACA AUG GUG UUG-3' (21 nt, MW 6890.1)

5'-pUGG AGU GUG ACA AUG GUG UUG U-3' (22 nt, MW 7196.3)

A) UV



B) MS



Courtesy of M.Yamada, SHIMADZU CORPORATION

|             |   |
|-------------|---|
| Column      | : YMC-Triart C18 (3 $\mu$ m, 12 nm)<br>150 X 2.0 mmI.D.   |
| Eluent      | : A) 10 mM di-n-butylamine-acetic acid (pH 7.5)<br>B) 10 mM di-n-butylamine-acetic acid (pH 7.5)/acetonitrile (50/50)<br>62-72%B (0-20 min) |
| Flow rate   | : 0.2 mL/min  |
| Temperature | : 30°C  |
| Detection   | : A) UV at 260 nm<br>B) ESI-negative mode   |
| Injection   | : 4 $\mu$ L (5 nmol/mL)   |
| Instrument  | : LC) Shimadzu Prominence<br>MS) Shimadzu LCMS2020  |